

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071519\  
 Data File : VX010885.D  
 Acq On : 15 Jul 2019 15:27  
 Operator : JC/SP  
 Sample : VX0715WBS03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0715WBS03

Manual Integrations  
 APPROVED

MMDadoda  
 7/16/2019 10:44:23 AM

Quant Time: Jul 16 03:27:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 267313   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 397125   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 358718   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 185387   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 127497   | 50.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.74% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 121553   | 50.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.06% |          |
| 50) Toluene-d8              | 8.71  | 98   | 430468   | 46.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.62%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 164464   | 49.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.02%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 34021    | 18.306 | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 35314    | 16.319 | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.41 | 62   | 37835    | 15.962 | ug/l  | 98     |
| 5) Bromomethane               | 1.64 | 94   | 21399    | 18.531 | ug/l  | 98     |
| 6) Chloroethane               | 1.72 | 64   | 26354    | 18.846 | ug/l  | 93     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 67276    | 17.905 | ug/l  | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 24048    | 17.847 | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 39431    | 17.317 | ug/l  | 98     |
| 10) Methyl Iodide             | 2.51 | 142  | 46260    | 14.235 | ug/l  | 96     |
| 11) Tert butyl alcohol        | 3.04 | 59   | 50870    | 77.567 | ug/l  | 96     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 38859    | 16.771 | ug/l  | 98     |
| 13) Acrolein                  | 2.29 | 56   | 41824    | 96.135 | ug/l  | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 57407    | 17.452 | ug/l  | 96     |
| 15) Acrylonitrile             | 3.14 | 53   | 115142   | 88.676 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 108270   | 86.196 | ug/l  | 96     |
| 17) Carbon Disulfide          | 2.57 | 76   | 88095    | 14.172 | ug/l  | 97     |
| 18) Methyl Acetate            | 2.78 | 43   | 46086    | 18.409 | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 130465   | 17.899 | ug/l  | 99     |
| 20) Methylene Chloride        | 2.85 | 84   | 44981    | 17.401 | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 41012    | 16.458 | ug/l  | 96     |
| 22) Diisopropyl ether         | 3.85 | 45   | 123491   | 17.956 | ug/l  | 99     |
| 23) Vinyl Acetate             | 3.81 | 43   | 541360   | 91.115 | ug/l  | 97     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 69951    | 17.596 | ug/l  | 99     |
| 25) 2-Butanone                | 4.67 | 43   | 161617   | 87.715 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 58325    | 16.889 | ug/l  | 96     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 48614    | 16.882 | ug/l  | 95     |
| 28) Bromochloromethane        | 5.02 | 49   | 30296    | 15.939 | ug/l  | 91     |
| 29) Tetrahydrofuran           | 5.13 | 42   | 102378   | 89.705 | ug/l  | 98     |
| 30) Chloroform                | 5.21 | 83   | 76573    | 17.902 | ug/l  | 100    |
| 31) Cyclohexane               | 5.58 | 56   | 61156    | 16.893 | ug/l  | 93     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 66215    | 17.531 | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 53054    | 16.812 | ug/l  | 98     |
| 37) Ethyl Acetate             | 4.83 | 43   | 59656    | 18.375 | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 55691    | 16.297 | ug/l  | 98     |

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Quant Time: Jul 16 03:27:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 67498    | 16.272  | ug/l   | 95       |
| 40) Benzene                    | 6.14  | 78   | 167947   | 17.082  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 32205    | 18.079  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 59028    | 19.723  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 95251    | 17.733  | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 48146    | 16.366  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 42981    | 17.312  | ug/l   | 96       |
| 46) Dibromomethane             | 7.66  | 93   | 31042    | 17.426  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 55269    | 16.930  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 46107    | 18.467  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 26246    | 364.920 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 315470   | 91.832  | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 109797   | 16.958  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 57879    | 15.814  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 65415    | 16.447  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 46958    | 17.586  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 68643    | 16.970  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 73727    | 17.787  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 154992   | 80.678  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 246222   | 91.068  | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.58  | 129  | 46639    | 15.599  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 49198    | 17.070  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 45962    | 15.841  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.13 | 112  | 125418   | 17.221  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 45801    | 17.266  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 212370   | 17.273  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 165147   | 34.666  | ug/l   | 98       |
| 69) o-Xylene                   | 10.69 | 106  | 81808    | 17.462  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 135529   | 17.250  | ug/l   | 96       |
| 71) Bromoform                  | 10.85 | 173  | 33970    | 14.726  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 217473   | 17.305  | ug/l   | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 87681    | 18.462  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 73486    | 17.657  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 59661m   | 17.660  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 59020    | 16.819  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 240875   | 17.440  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 143690   | 17.471  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 182840   | 17.649  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 18981    | 13.108  | ug/l # | 82       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 164483   | 17.576  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 181764   | 17.480  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 182211   | 17.506  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 212527   | 17.408  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 195262   | 17.291  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 104468   | 17.055  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 104992   | 16.837  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 164692   | 17.162  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 28154    | 14.418  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 105542   | 17.337  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 15081    | 16.807  | ug/l   | 87       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 69830    | 16.541 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 33888    | 16.424 | ug/l  | 96       |
| 95) Naphthalene            | 13.83 | 128  | 214851   | 16.561 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 70409    | 16.774 | ug/l  | 98       |

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

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