

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\  
 Data File : VX002570.D  
 Acq On : 15 Jun 2018 00:17  
 Operator : JC/MD  
 Sample : VX0614WBSD02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0614WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 6/15/2018 1:11:57 PM

Quant Time: Jun 15 03:34:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 238492   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 345185   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 320128   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 187761   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 174442   | 51.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.46% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 138748   | 51.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.22% |      |
| 50) Toluene-d8            | 8.72   | 98  | 540583   | 51.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.92% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 194096   | 48.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.76%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 37969  | 15.315 | ug/l | 95     |
| 3) Chloromethane              | 1.32 | 50  | 46235  | 14.221 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 51629  | 16.524 | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 30125  | 14.679 | ug/l | 97     |
| 6) Chloroethane               | 1.73 | 64  | 34721  | 17.179 | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 91581  | 19.237 | ug/l | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 34304  | 18.781 | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 50970  | 19.840 | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 58229  | 16.114 | ug/l | 97     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 66151  | 81.286 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 46425  | 18.285 | ug/l | 98     |
| 13) Acrolein                  | 2.29 | 56  | 12421  | 28.018 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 89676  | 16.276 | ug/l | 98     |
| 15) Acrylonitrile             | 3.15 | 53  | 149819 | 97.302 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 138708 | 81.660 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 90928  | 13.588 | ug/l | 96     |
| 18) Methyl Acetate            | 2.78 | 43  | 73984  | 20.037 | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 186595 | 19.654 | ug/l | 97     |
| 20) Methylene Chloride        | 2.86 | 84  | 54449  | 18.448 | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 49540  | 17.694 | ug/l | 98     |
| 22) Diisopropyl ether         | 3.88 | 45  | 170202 | 17.525 | ug/l | 96     |
| 23) Vinyl Acetate             | 3.83 | 43  | 712500 | 79.769 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 90589  | 16.635 | ug/l | 98     |
| 25) 2-Butanone                | 4.71 | 43  | 192163 | 82.177 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 53031  | 12.458 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 52998  | 17.406 | ug/l | 93     |
| 28) Bromochloromethane        | 5.03 | 49  | 48309  | 18.624 | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 126141 | 83.667 | ug/l | 99     |
| 30) Chloroform                | 5.22 | 83  | 91929  | 17.494 | ug/l | 95     |
| 31) Cyclohexane               | 5.58 | 56  | 71788  | 16.671 | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 77171  | 17.316 | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 63656  | 17.541 | ug/l | 100    |
| 37) Ethyl Acetate             | 4.87 | 43  | 76149  | 17.449 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 65707  | 17.308 | ug/l | 97     |

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Quant Time: Jun 15 03:34:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 71651    | 16.160  | ug/l   | 97       |
| 40) Benzene                    | 6.15  | 78   | 192941   | 17.340  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.07  | 41   | 44653    | 17.874  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 78210    | 17.692  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.47  | 43   | 126024   | 17.002  | ug/l   | 100      |
| 44) Trichloroethene            | 7.22  | 130  | 55555    | 17.990  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 51321    | 17.085  | ug/l   | 98       |
| 46) Dibromomethane             | 7.67  | 93   | 35306    | 17.338  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 61962    | 16.824  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.78  | 41   | 64675    | 17.370  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 23086    | 331.608 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 415090   | 89.922  | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 122195   | 17.267  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 70449    | 15.951  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 64190    | 15.405  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 53112    | 18.248  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 80455    | 17.314  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 87802    | 17.981  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 199604   | 92.806  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 311630   | 87.401  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 49133    | 16.783  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 54029    | 17.803  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 61962    | 18.767  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 142814   | 17.929  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 50809    | 17.616  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 246449   | 18.487  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 184269   | 35.560  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 91823    | 17.806  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 151527   | 17.974  | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 35648    | 16.303  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 253524   | 19.410  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.47  | 43   | 126024   | 17.906  | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 77639    | 18.899  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 76918m   | 18.670  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 68284    | 18.622  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 282178   | 19.437  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 169993   | 18.544  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 208335   | 18.596  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 16109    | 13.706  | ug/l # | 85       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 196214   | 18.544  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 208836   | 19.143  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 217637   | 18.872  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 257330   | 20.120  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 226138   | 19.412  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 124206   | 18.944  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 126120   | 18.662  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 194718   | 19.930  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 30946    | 16.641  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 128211   | 18.900  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 15555    | 17.315  | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 92203    | 19.384 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 48882    | 20.796 | ug/l  | 97       |
| 95) Naphthalene            | 13.84 | 128  | 264726   | 19.370 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 93489    | 19.272 | ug/l  | 100      |

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

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