

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012219\  
 Data File : VX007172.D  
 Acq On : 22 Jan 2019 10:32  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 1/23/2019 11:29:21 AM

Quant Time: Jan 23 00:14:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 526618   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 749493   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 700432   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 388841   | 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   | 272927   | 49.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.18%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 253349   | 52.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.56% |          |
| 50) Toluene-d8              | 8.71  | 98   | 936325   | 53.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.60% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 362288   | 59.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.30% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 209917   | 48.540  | ug/l  | 99     |
| 3) Chloromethane              | 1.33 | 50   | 227047   | 45.099  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.41 | 62   | 247546   | 45.711  | ug/l  | 98     |
| 5) Bromomethane               | 1.64 | 94   | 252915   | 43.712  | ug/l  | 97     |
| 6) Chloroethane               | 1.72 | 64   | 161995   | 42.841  | ug/l  | 96     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 408217   | 46.652  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.19 | 74   | 156920   | 45.077  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 251706   | 48.048  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 348212   | 49.277  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 248486   | 191.399 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.38 | 96   | 219968   | 45.448  | ug/l  | 97     |
| 13) Acrolein                  | 2.29 | 56   | 106171   | 190.363 | ug/l  | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 383837   | 46.274  | ug/l  | 100    |
| 15) Acrylonitrile             | 3.15 | 53   | 634891   | 213.026 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 646105   | 237.468 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.57 | 76   | 510496   | 40.967  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 344498   | 43.722  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 772156   | 45.964  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.86 | 84   | 252979   | 48.872  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 239544   | 44.412  | ug/l  | 100    |
| 22) Diisopropyl ether         | 3.87 | 45   | 744721   | 47.756  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.82 | 43   | 3092705  | 235.169 | ug/l  | 97     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 432304   | 49.577  | ug/l  | 99     |
| 25) 2-Butanone                | 4.69 | 43   | 861500   | 221.290 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 333829   | 49.787  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 275224   | 46.261  | ug/l  | 98     |
| 28) Bromochloromethane        | 5.02 | 49   | 181566   | 47.525  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 5.14 | 42   | 517754   | 204.644 | ug/l  | 98     |
| 30) Chloroform                | 5.21 | 83   | 439261   | 48.114  | ug/l  | 97     |
| 31) Cyclohexane               | 5.58 | 56   | 360564   | 46.459  | ug/l  | 96     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 380650   | 49.190  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 320606   | 49.201  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.85 | 43   | 311847   | 44.639  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 333951   | 50.937  | ug/l  | 94     |

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 Data File : VX007172.D  
 Acq On : 22 Jan 2019 10:32  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 1/23/2019 11:29:21 AM

Quant Time: Jan 23 00:14:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 410102   | 49.367  | ug/l  | 97       |
| 40) Benzene                    | 6.14  | 78   | 955255   | 48.044  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 179181   | 44.523  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 327669   | 47.690  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 520815   | 47.263  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 288662   | 48.448  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 250401   | 50.094  | ug/l  | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 173999   | 49.529  | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 321842   | 53.822  | ug/l  | 96       |
| 48) Methyl methacrylate        | 7.77  | 41   | 268454   | 47.439  | ug/l  | 97       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 111020   | 857.855 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1733470  | 244.780 | ug/l  | 98       |
| 52) Toluene                    | 8.78  | 92   | 632912   | 49.526  | ug/l  | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 361325   | 54.492  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 390020   | 53.262  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 264284   | 51.667  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 390220   | 52.256  | ug/l  | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 425866   | 50.819  | ug/l  | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 1249712  | 325.493 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 1361748  | 252.330 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 282840   | 56.944  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 278842   | 49.517  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 302488   | 49.881  | ug/l  | 95       |
| 65) Chlorobenzene              | 10.13 | 112  | 762660   | 49.923  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 277877   | 54.071  | ug/l  | 97       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1266034  | 50.199  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 1012121  | 101.861 | ug/l  | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 493072   | 50.882  | ug/l  | 96       |
| 70) Styrene                    | 10.71 | 104  | 811371   | 52.866  | ug/l  | 99       |
| 71) Bromoform                  | 10.85 | 173  | 218201   | 47.698  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 1330415  | 48.522  | ug/l  | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 511694   | 46.352  | ug/l  | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 389784   | 44.779  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 368639m  | 46.783  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 360325   | 47.694  | ug/l  | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 1536775  | 51.056  | ug/l  | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 893210   | 49.297  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1128463  | 49.255  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 114643   | 44.368  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 1043982  | 49.764  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1114389  | 48.752  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1153219  | 50.056  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1390231  | 50.926  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1260768  | 51.632  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 672859   | 49.274  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 675133   | 52.175  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 1105115  | 53.090  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 193998   | 49.780  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 654535   | 48.571  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 78540    | 45.622  | ug/l  | 98       |

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Data File : VX007172.D  
Acq On : 22 Jan 2019 10:32  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
1/23/2019 11:29:21 AM

Quant Time: Jan 23 00:14:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 478058   | 51.708 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 226597   | 55.230 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 1343466  | 47.954 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 466255   | 50.767 | ug/l  | 99       |

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

