

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX021218\  
 Data File : VX000071.D  
 Acq On : 12 Feb 2018 18:04  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 ClientSampled :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/15/2018 6:05:19 PM

Quant Time: Feb 13 04:05:09 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X020918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 09 23:01:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 119194   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 191496   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 188368   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 108294   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 62008    | 49.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 99.58% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 55877    | 49.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 99.96% |          |
| 50) Toluene-d8              | 8.73  | 98   | 204839   | 49.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 98.46% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 84007    | 49.65 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 99.30% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 53310    | 49.36  | ug/l  | 99     |
| 3) Chloromethane              | 1.33 | 50   | 54183    | 49.27  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.41 | 62   | 63616    | 51.32  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 47008    | 71.00  | ug/l  | 96     |
| 6) Chloroethane               | 1.72 | 64   | 40996    | 55.01  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 111646   | 51.69  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.20 | 74   | 39744    | 50.83  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 62020    | 50.83  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 69767    | 47.19  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.09 | 59   | 140192   | 281.32 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.38 | 96   | 58054    | 50.20  | ug/l  | 98     |
| 13) Acrolein                  | 2.30 | 56   | 57238    | 223.77 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 100851   | 50.05  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.16 | 53   | 235966   | 271.78 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 214846   | 291.40 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.57 | 76   | 165892   | 49.24  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.79 | 43   | 107293   | 57.71  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 205776   | 51.99  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.86 | 84   | 63137    | 51.14  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 62966    | 50.58  | ug/l  | 99     |
| 22) Diisopropyl ether         | 3.89 | 45   | 166907   | 50.16  | ug/l  | 98     |
| 23) Vinyl Acetate             | 3.84 | 43   | 784478   | 260.79 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 102874   | 49.74  | ug/l  | 98     |
| 25) 2-Butanone                | 4.73 | 43   | 315174   | 283.23 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.60 | 77   | 89341    | 50.41  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 62657    | 51.36  | ug/l  | 100    |
| 28) Bromochloromethane        | 5.03 | 49   | 33895    | 49.42  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 5.18 | 42   | 211767   | 277.72 | ug/l  | 99     |
| 30) Chloroform                | 5.23 | 83   | 109710   | 52.62  | ug/l  | 99     |
| 31) Cyclohexane               | 5.59 | 56   | 85287    | 50.19  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97   | 102043   | 52.00  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.81 | 75   | 80648    | 48.37  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.88 | 43   | 109931   | 51.06  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 93377    | 49.88  | ug/l  | 98     |

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 Data File : VX000071.D  
 Acq On : 12 Feb 2018 18:04  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/15/2018 6:05:19 PM

Quant Time: Feb 13 04:05:09 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X020918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 09 23:01:05 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.47  | 83   | 100041   | 49.42   | ug/l   | 97       |
| 40) Benzene                    | 6.15  | 78   | 236364   | 50.16   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 57089    | 51.62   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 87172    | 51.78   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.48  | 43   | 165024   | 50.83   | ug/l   | 100      |
| 44) Trichloroethene            | 7.23  | 130  | 71113    | 48.77   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.53  | 63   | 59417    | 51.86   | ug/l   | 97       |
| 46) Dibromomethane             | 7.67  | 93   | 45317    | 51.25   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.91  | 83   | 88210    | 51.30   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.79  | 41   | 80374    | 50.44   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.78  | 88   | 44881    | 1057.42 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.67  | 43   | 619970   | 274.08  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 164718   | 52.04   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 102437   | 50.92   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 102616   | 52.49   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.23  | 97   | 67817    | 51.09   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.20  | 69   | 107298   | 52.69   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 107466   | 52.04   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 258688   | 257.20  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 520012   | 282.66  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 81408    | 53.33   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 75739    | 51.80   | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.34  | 164  | 69957    | 49.89   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.15 | 112  | 195083   | 49.82   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 71197    | 50.58   | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.26 | 91   | 322577   | 49.71   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.37 | 106  | 258312   | 99.93   | ug/l   | 100      |
| 69) o-Xylene                   | 10.71 | 106  | 126267   | 50.61   | ug/l   | 100      |
| 70) Styrene                    | 10.72 | 104  | 213061   | 50.55   | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 70220    | 52.72   | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.03 | 105  | 337653   | 49.14   | ug/l   | 99       |
| 74) N-amyl acetate             | 6.48  | 43   | 165024   | 47.99   | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.28 | 83   | 116229   | 49.72   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 104766m  | 51.37   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 93732    | 50.27   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 393870   | 49.44   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 227790   | 49.45   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.52 | 105  | 286941   | 49.84   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.09 | 75   | 41588    | 50.45   | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 270689   | 49.17   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.78 | 119  | 290058   | 49.87   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.82 | 105  | 296368   | 50.30   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.96 | 105  | 353855   | 49.44   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 320151   | 49.75   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.04 | 146  | 174186   | 49.59   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.11 | 146  | 177889   | 49.48   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 294036   | 48.91   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 56371    | 50.09   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 169364   | 49.28   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 33526    | 50.09   | ug/l   | 97       |

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Acq On : 12 Feb 2018 18:04  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
2/15/2018 6:05:19 PM

Quant Time: Feb 13 04:05:09 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X020918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 09 23:01:05 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 127672   | 48.56 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 59747    | 48.18 | ug/l  | 100      |
| 95) Naphthalene            | 13.85 | 128  | 425986   | 49.85 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.03 | 180  | 124381   | 48.63 | ug/l  | 99       |

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

