

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\  
 Data File : VX000940.D  
 Acq On : 17 Apr 2018 00:45  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/18/2018 2:45:11 PM

Quant Time: Apr 17 07:16:02 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 237154   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 322281   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 311161   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 211656   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 150350   | 50.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.56% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 126409   | 50.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.82% |      |
| 50) Toluene-d8            | 8.72   | 98  | 465522   | 50.35 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.70% |      |
| 62) 4-Bromofluorobenzene  | 11.15  | 95  | 189173   | 49.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.92%  |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 130097  | 48.60  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 118026  | 51.42  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 130532  | 50.56  | ug/l | 97     |
| 5) Bromomethane               | 1.64 | 94  | 75276m  | 71.02  | ug/l |        |
| 6) Chloroethane               | 1.73 | 64  | 79844   | 51.03  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 201376  | 51.70  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 77978   | 53.59  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 119064  | 51.84  | ug/l | 98     |
| 10) Methyl Iodide             | 2.52 | 142 | 98245   | 54.15  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.07 | 59  | 114941  | 216.50 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 110706  | 50.86  | ug/l | 99     |
| 13) Acrolein                  | 2.30 | 56  | 32029   | 124.23 | ug/l | 97     |
| 14) Allyl chloride            | 2.73 | 41  | 200181  | 49.74  | ug/l | 100    |
| 15) Acrylonitrile             | 3.15 | 53  | 305948  | 270.30 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 245811  | 238.38 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 271005  | 41.12  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 160150  | 60.01  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 391642  | 54.02  | ug/l | 97     |
| 20) Methylene Chloride        | 2.86 | 84  | 123393  | 51.45  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 120022  | 50.00  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.88 | 45  | 417673  | 56.47  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.83 | 43  | 1705071 | 262.56 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 225739  | 54.39  | ug/l | 100    |
| 25) 2-Butanone                | 4.71 | 43  | 427565  | 251.09 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 167937  | 40.77  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.61 | 96  | 144292  | 52.97  | ug/l | 98     |
| 28) Bromochloromethane        | 5.03 | 49  | 83447   | 49.93  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 278040  | 257.15 | ug/l | 99     |
| 30) Chloroform                | 5.23 | 83  | 237378  | 54.02  | ug/l | 96     |
| 31) Cyclohexane               | 5.59 | 56  | 192772  | 48.91  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97  | 214431  | 51.22  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 176227  | 49.65  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.87 | 43  | 172572  | 49.80  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 189231  | 47.63  | ug/l | 98     |

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 Data File : VX000940.D  
 Acq On : 17 Apr 2018 00:45  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/18/2018 2:45:11 PM

Quant Time: Apr 17 07:16:02 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 7.47  | 83   | 198303   | 46.52  | ug/l  | 99       |
| 40) Benzene                    | 6.15  | 78   | 511684   | 51.88  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 103612   | 51.76  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 193114   | 52.43  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.48  | 43   | 298108   | 50.18  | ug/l  | 100      |
| 44) Trichloroethene            | 7.22  | 130  | 155943   | 50.84  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 133814   | 53.28  | ug/l  | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 90720    | 51.81  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.91  | 83   | 177364   | 50.19  | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.79  | 41   | 158074   | 51.34  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 7.76  | 88   | 48924    | 790.61 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 912199   | 261.41 | ug/l  | 100      |
| 52) Toluene                    | 8.79  | 92   | 338171   | 51.69  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 208875   | 49.28  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 199257   | 48.28  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 138192   | 53.20  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 205854   | 51.38  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 223197   | 54.05  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 513398   | 274.24 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 673422   | 249.98 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 153984   | 49.55  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 146164   | 53.04  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 161470   | 53.07  | ug/l  | 97       |
| 65) Chlorobenzene              | 10.15 | 112  | 402731   | 51.45  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 148330   | 50.35  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 665037   | 50.96  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.37 | 106  | 527662   | 102.44 | ug/l  | 99       |
| 69) o-Xylene                   | 10.71 | 106  | 256042   | 51.57  | ug/l  | 100      |
| 70) Styrene                    | 10.72 | 104  | 432932   | 51.73  | ug/l  | 100      |
| 71) Bromoform                  | 10.87 | 173  | 125163   | 45.88  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 693915   | 51.68  | ug/l  | 100      |
| 74) N-amyl acetate             | 6.48  | 43   | 298108   | 49.30  | ug/l  | # 100    |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 200968   | 51.57  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 183710m  | 50.33  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 201078   | 51.10  | ug/l  | 100      |
| 78) n-propylbenzene            | 11.37 | 91   | 773429   | 50.36  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 464557   | 51.18  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 583283   | 50.51  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 53040    | 39.97  | ug/l  | 92       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 554808   | 50.64  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.78 | 119  | 596773   | 50.51  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 604177   | 50.68  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 691799   | 49.64  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 641065   | 49.33  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 373176   | 51.24  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 379229   | 50.81  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 554218   | 48.31  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 96658    | 43.95  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 367693   | 52.29  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 41957    | 42.97  | ug/l  | 99       |

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Acq On : 17 Apr 2018 00:45  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
4/18/2018 2:45:11 PM

Quant Time: Apr 17 07:16:02 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 298246   | 49.71 | uq/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 123018   | 41.70 | uq/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 777786   | 50.50 | uq/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.03 | 180  | 291000   | 49.94 | uq/l  | 99       |

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

