

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050818\  
 Data File : VX001507.D  
 Acq On : 08 May 2018 12:13  
 Operator : JC/MD  
 Sample : VX0508WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0508WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/10/2018 1:11:32 PM

Quant Time: May 08 14:14:59 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 254866   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 334645   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 316666   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 227563   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 188624   | 51.49 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.98% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 152092   | 51.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.20% |      |
| 50) Toluene-d8              | 8.72   | 98  | 553957   | 50.98 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.96% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 211433   | 50.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.38% |      |

|                               |      |     |        |        |      |     |
|-------------------------------|------|-----|--------|--------|------|-----|
| Target Compounds              |      |     |        | Qvalue |      |     |
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 72708  | 21.19  | ug/l | 99  |
| 3) Chloromethane              | 1.32 | 50  | 71520  | 21.40  | ug/l | 99  |
| 4) Vinyl Chloride             | 1.40 | 62  | 71729  | 20.57  | ug/l | 98  |
| 5) Bromomethane               | 1.64 | 94  | 46634  | 27.68  | ug/l | 99  |
| 6) Chloroethane               | 1.73 | 64  | 45504  | 19.74  | ug/l | 96  |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 110345 | 21.03  | ug/l | 98  |
| 8) Diethyl Ether              | 2.19 | 74  | 42504  | 20.66  | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 63682  | 20.70  | ug/l | 99  |
| 10) Methyl Iodide             | 2.51 | 142 | 77502  | 17.46  | ug/l | 98  |
| 11) Tert butyl alcohol        | 3.07 | 59  | 68050  | 88.11  | ug/l | 99  |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 58129  | 20.61  | ug/l | 97  |
| 13) Acrolein                  | 2.29 | 56  | 14468  | 87.44  | ug/l | 96  |
| 14) Allyl chloride            | 2.73 | 41  | 107587 | 20.46  | ug/l | 99  |
| 15) Acrylonitrile             | 3.15 | 53  | 165148 | 94.63  | ug/l | 100 |
| 16) Acetone                   | 2.45 | 43  | 158219 | 95.12  | ug/l | 99  |
| 17) Carbon Disulfide          | 2.57 | 76  | 136526 | 19.02  | ug/l | 100 |
| 18) Methyl Acetate            | 2.78 | 43  | 87499  | 20.02  | ug/l | 98  |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 204381 | 20.81  | ug/l | 100 |
| 20) Methylene Chloride        | 2.86 | 84  | 65032  | 19.75  | ug/l | 99  |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 62371  | 19.82  | ug/l | 98  |
| 22) Diisopropyl ether         | 3.88 | 45  | 199438 | 20.30  | ug/l | 100 |
| 23) Vinyl Acetate             | 3.83 | 43  | 830494 | 101.43 | ug/l | 100 |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 114566 | 20.88  | ug/l | 100 |
| 25) 2-Butanone                | 4.71 | 43  | 227875 | 94.77  | ug/l | 100 |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 94788  | 22.37  | ug/l | 100 |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 68117  | 20.32  | ug/l | 99  |
| 28) Bromochloromethane        | 5.03 | 49  | 51723  | 21.74  | ug/l | 99  |
| 29) Tetrahydrofuran           | 5.17 | 42  | 144104 | 93.67  | ug/l | 99  |
| 30) Chloroform                | 5.22 | 83  | 118913 | 21.03  | ug/l | 98  |
| 31) Cyclohexane               | 5.58 | 56  | 95038  | 20.16  | ug/l | 100 |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 105384 | 21.33  | ug/l | 99  |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 85174  | 20.01  | ug/l | 99  |
| 37) Ethyl Acetate             | 4.87 | 43  | 87546  | 18.76  | ug/l | 99  |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 93257  | 20.54  | ug/l | 99  |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 VX0508WBS01

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MMDadoda  
 5/10/2018 1:11:32 PM

Quant Time: May 08 14:14:59 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 100154   | 19.90  | ug/l   | 96       |
| 40) Benzene                    | 6.15  | 78   | 256242   | 20.61  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 51258    | 19.20  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 99927    | 20.91  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.48  | 43   | 144960   | 20.24  | ug/l   | 99       |
| 44) Trichloroethene            | 7.22  | 130  | 78814    | 20.74  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 62320    | 20.11  | ug/l   | 97       |
| 46) Dibromomethane             | 7.67  | 93   | 45146    | 20.57  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 83946    | 20.67  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.79  | 41   | 77931    | 19.98  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 27481    | 326.11 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 476292   | 100.06 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 168594   | 20.74  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 98167    | 21.39  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 87807    | 19.93  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 65668    | 20.05  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 94445    | 20.00  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 109219   | 20.17  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 254210   | 109.78 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 351167   | 96.34  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 66975    | 19.97  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 70231    | 20.42  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 91365    | 20.70  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 190452   | 20.51  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 69006    | 20.77  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 313108   | 20.57  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.37 | 106  | 251851   | 41.87  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 120474   | 20.61  | ug/l   | 97       |
| 70) Styrene                    | 10.72 | 104  | 199716   | 21.03  | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 52421    | 18.81  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 328758   | 20.87  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.48  | 43   | 144960   | 20.26  | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 92011    | 19.78  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 94814m   | 20.54  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 93772    | 20.47  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.37 | 91   | 369135   | 21.52  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 218697   | 20.72  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 274235   | 20.91  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 23552    | 19.16  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 260069   | 21.35  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 266995   | 20.46  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 283213   | 21.01  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 333881   | 21.31  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 306271   | 21.31  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 170556   | 20.83  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 173008   | 20.72  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 257063   | 21.59  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 43188    | 19.96  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 169325   | 20.33  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 19987    | 19.55  | ug/l   | 98       |

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Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
Quant Title : SW846 8260  
QLast Update : Sun May 06 07:59:25 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 129302   | 21.21 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 69269    | 20.77 | ug/l  | 100      |
| 95) Naphthalene            | 13.84 | 128  | 356461   | 21.15 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 130140   | 20.81 | ug/l  | 99       |

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

