

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041018\  
 Data File : VX000758.D  
 Acq On : 10 Apr 2018 19:54  
 Operator : JC/MD  
 Sample : VX0410WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0410WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/11/2018 11:20:47 AM

Quant Time: Apr 11 08:43:59 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  | 264847   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 357728   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 340259   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 225858   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 163038     | 48.82   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 97.64%  |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 138097     | 50.11   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.22% |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 498742     | 48.60   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 97.20%  |       |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 203460     | 47.92   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.84%  |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 62726    | 20.98  | ug/l  | 99     |
| 3) Chloromethane              | 1.32 | 50   | 50039    | 19.52  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.40 | 62   | 58895    | 20.43  | ug/l  | 96     |
| 5) Bromomethane               | 1.64 | 94   | 28864    | 23.45  | ug/l  | 100    |
| 6) Chloroethane               | 1.73 | 64   | 35772    | 20.47  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 88623    | 20.37  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 33174    | 20.41  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 52224    | 20.36  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 24873    | 18.64  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 65925    | 111.19 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.38 | 96   | 49176    | 20.23  | ug/l  | 99     |
| 13) Acrolein                  | 2.30 | 56   | 26676    | 92.65  | ug/l  | 97     |
| 14) Allyl chloride            | 2.73 | 41   | 92301    | 20.54  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.15 | 53   | 135237   | 106.99 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 123260   | 107.03 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.57 | 76   | 143246   | 19.46  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 65675    | 22.04  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 168111   | 20.76  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.86 | 84   | 59057    | 22.05  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 53112    | 19.81  | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.88 | 45   | 176791   | 21.40  | ug/l  | 98     |
| 23) Vinyl Acetate             | 3.83 | 43   | 786843   | 108.49 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 96225    | 20.76  | ug/l  | 99     |
| 25) 2-Butanone                | 4.71 | 43   | 205972   | 108.31 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 89281    | 19.41  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.61 | 96   | 62337    | 20.49  | ug/l  | 100    |
| 28) Bromochloromethane        | 5.03 | 49   | 38428    | 20.59  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 5.17 | 42   | 131392   | 108.81 | ug/l  | 100    |
| 30) Chloroform                | 5.23 | 83   | 101995   | 20.78  | ug/l  | 95     |
| 31) Cyclohexane               | 5.59 | 56   | 88043    | 20.00  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97   | 96400    | 20.62  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.81 | 75   | 76567    | 19.43  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.87 | 43   | 81899    | 21.29  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 88518    | 20.07  | ug/l  | 94     |

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041018\  
 Data File : VX000758.D  
 Acq On : 10 Apr 2018 19:54  
 Operator : JC/MD  
 Sample : VX0410WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0410WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/11/2018 11:20:47 AM

Quant Time: Apr 11 08:43:59 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   | 91996    | 19.44  | ug/l   | 97       |
| 40) Benzene                    | 6.15  | 78   | 222616   | 20.34  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.07  | 41   | 46537    | 20.94  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 82929    | 20.28  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.48  | 43   | 135577   | 20.56  | ug/l   | 100      |
| 44) Trichloroethene            | 7.22  | 130  | 68518    | 20.13  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 57380    | 20.58  | ug/l   | 96       |
| 46) Dibromomethane             | 7.67  | 93   | 39454    | 20.30  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.91  | 83   | 79563    | 20.28  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.79  | 41   | 71006    | 20.77  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 29140    | 424.24 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 414797   | 107.09 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 146123   | 20.12  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 94444    | 20.07  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 91221    | 19.91  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.23  | 97   | 58111    | 20.16  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 90243    | 20.29  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 95201    | 20.77  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 222076   | 106.87 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 319412   | 106.82 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 68782    | 19.94  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 61961    | 20.26  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 67381    | 20.25  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.15 | 112  | 170507   | 19.92  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 64573    | 20.04  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 286305   | 20.06  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.37 | 106  | 223828   | 39.74  | ug/l   | 100      |
| 69) o-Xylene                   | 10.71 | 106  | 108894   | 20.06  | ug/l   | 99       |
| 70) Styrene                    | 10.72 | 104  | 181652   | 19.85  | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 58872    | 19.74  | ug/l   | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 293591   | 20.49  | ug/l   | 99       |
| 74) N-amyl acetate             | 6.48  | 43   | 135577   | 21.01  | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 84870    | 20.41  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 81029m   | 20.80  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 85428    | 20.34  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 331150   | 20.21  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 195503   | 20.18  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 250874   | 20.36  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 27231    | 19.23  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 235283   | 20.12  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.78 | 119  | 258600   | 20.51  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.82 | 105  | 260570   | 20.48  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 301686   | 20.29  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 280101   | 20.20  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 156911   | 20.19  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 158939   | 19.95  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 244970   | 20.01  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 46152    | 19.67  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 151653   | 20.21  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 21459    | 20.60  | ug/l   | 95       |

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041018\  
Data File : VX000758.D  
Acq On : 10 Apr 2018 19:54  
Operator : JC/MD  
Sample : VX0410WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0410WBS01

Manual Integrations  
APPROVED

MMDadoda  
4/11/2018 11:20:47 AM

Quant Time: Apr 11 08:43:59 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  | 127796   | 19.96 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 61977    | 19.69 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 341829   | 20.80 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.03 | 180  | 125066   | 20.11 | ug/l  | 100      |

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

