

Data File : VX000635.D  
Acq On : 02 Apr 2018 12:43  
Operator : JC/MD  
Sample : VX0402WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0402WBS01

Manual Integrations  
APPROVED

MMDadoda  
4/4/2018 5:09:33 PM

Quant Time: Apr 03 02:49:30 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 168752   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 269838   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 293701   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 184792   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 94614    | 42.95 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.90% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 73743    | 43.37 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.74% |      |
| 50) Toluene-d8              | 8.72   | 98  | 319989   | 45.44 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.88% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 130868   | 44.72 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.44% |      |

|                               |      |     |        |        |      |     |
|-------------------------------|------|-----|--------|--------|------|-----|
| Target Compounds              |      |     |        | Qvalue |      |     |
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 28889  | 15.53  | ug/l | 96  |
| 3) Chloromethane              | 1.32 | 50  | 26887  | 13.72  | ug/l | 97  |
| 4) Vinyl Chloride             | 1.41 | 62  | 35392  | 17.10  | ug/l | 99  |
| 5) Bromomethane               | 1.65 | 94  | 30793  | 12.46  | ug/l | 91  |
| 6) Chloroethane               | 1.73 | 64  | 23612  | 19.88  | ug/l | 100 |
| 7) Trichlorofluoromethane     | 1.94 | 101 | 62749  | 16.79  | ug/l | 98  |
| 8) Diethyl Ether              | 2.20 | 74  | 22124  | 16.57  | ug/l | 92  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 36193  | 17.37  | ug/l | 96  |
| 10) Methyl Iodide             | 2.52 | 142 | 16173  | 11.44  | ug/l | 97  |
| 11) Tert butyl alcohol        | 3.06 | 59  | 64100  | 84.60  | ug/l | 99  |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 30926  | 16.91  | ug/l | 99  |
| 13) Acrolein                  | 2.30 | 56  | 31996  | 139.12 | ug/l | 99  |
| 14) Allyl chloride            | 2.73 | 41  | 55729  | 17.18  | ug/l | 96  |
| 15) Acrylonitrile             | 3.15 | 53  | 128642 | 83.82  | ug/l | 100 |
| 16) Acetone                   | 2.45 | 43  | 157353 | 85.87  | ug/l | 97  |
| 17) Carbon Disulfide          | 2.58 | 76  | 74660  | 15.35  | ug/l | 97  |
| 18) Methyl Acetate            | 2.78 | 43  | 63851  | 16.62  | ug/l | 100 |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 117234 | 17.33  | ug/l | 97  |
| 20) Methylene Chloride        | 2.87 | 84  | 36532  | 17.26  | ug/l | 97  |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 32858  | 16.10  | ug/l | 98  |
| 22) Diisopropyl ether         | 3.87 | 45  | 112723 | 19.71  | ug/l | 98  |
| 23) Vinyl Acetate             | 3.83 | 43  | 534221 | 98.55  | ug/l | 99  |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 62214  | 17.31  | ug/l | 99  |
| 25) 2-Butanone                | 4.71 | 43  | 168672 | 81.89  | ug/l | 100 |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 41912  | 16.63  | ug/l | 99  |
| 27) cis-1,2-Dichloroethene    | 4.61 | 96  | 31234  | 16.38  | ug/l | 97  |
| 28) Bromochloromethane        | 5.03 | 49  | 28843  | 19.46  | ug/l | 100 |
| 29) Tetrahydrofuran           | 5.17 | 42  | 102814 | 81.13  | ug/l | 98  |
| 30) Chloroform                | 5.22 | 83  | 57894  | 17.18  | ug/l | 99  |
| 31) Cyclohexane               | 5.59 | 56  | 44362  | 15.96  | ug/l | 95  |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97  | 50612  | 16.65  | ug/l | 100 |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 42480  | 16.81  | ug/l | 98  |
| 37) Ethyl Acetate             | 4.87 | 43  | 56011  | 16.22  | ug/l | 99  |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 43321  | 16.34  | ug/l | 97  |

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Instrument :

MSVOA\_X

ClientSampleId :

VX0402WBS01

Manual Integrations

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MMDadoda

4/4/2018 5:09:33 PM

Quant Time: Apr 03 02:49:30 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 21 04:52:42 2018

Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.47  | 83   | 53004    | 17.24  | ug/l   | 98       |
| 40) Benzene                    | 6.15  | 78   | 124834   | 17.01  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.07  | 41   | 29254    | 16.07  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 50020    | 17.37  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.47  | 43   | 87762    | 17.08  | ug/l   | 99       |
| 44) Trichloroethene            | 7.22  | 130  | 36900    | 17.55  | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 33847    | 18.01  | ug/l   | 97       |
| 46) Dibromomethane             | 7.67  | 93   | 26002    | 17.63  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.91  | 83   | 47955    | 18.48  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.79  | 41   | 44478    | 17.83  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 19045    | 363.13 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 355476   | 89.36  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 92756    | 18.08  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 53844    | 17.91  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 52072    | 17.85  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 38840    | 18.41  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 55591    | 17.38  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 62522    | 18.52  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 123189   | 80.27  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.51  | 43   | 308880   | 91.44  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 40070    | 18.84  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 41615    | 18.39  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 38076    | 16.71  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.15 | 112  | 113929   | 17.43  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 39229    | 17.67  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 196399   | 17.73  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.37 | 106  | 153046   | 35.10  | ug/l   | 98       |
| 69) o-Xylene                   | 10.71 | 106  | 76359    | 18.09  | ug/l   | 97       |
| 70) Styrene                    | 10.72 | 104  | 124631   | 17.84  | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 33280    | 17.79  | ug/l # | 93       |
| 73) Isopropylbenzene           | 11.02 | 105  | 207828   | 16.97  | ug/l   | 99       |
| 74) N-amyl acetate             | 6.47  | 43   | 87762    | 14.08  | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 72572    | 16.76  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 68243m   | 17.18  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 50862    | 15.59  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.37 | 91   | 254933   | 17.46  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 140163   | 16.62  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 182233   | 17.70  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 18917    | 15.42  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 175197   | 17.40  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.78 | 119  | 178837   | 17.22  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.82 | 105  | 189582   | 17.56  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 232008   | 18.06  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 208166   | 18.24  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 102771   | 16.66  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 112434   | 17.36  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.40 | 91   | 202007   | 19.02  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 31220    | 17.38  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 107322   | 17.75  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 19889    | 16.47  | ug/l   | 97       |

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0402WBS01

Manual Integrations  
APPROVED

MMDadoda  
4/4/2018 5:09:33 PM

Quant Time: Apr 03 02:49:30 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 78009    | 18.00 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 31870    | 17.76 | ug/l  | 96       |
| 95) Naphthalene            | 13.84 | 128  | 265214   | 17.56 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.03 | 180  | 78283    | 18.28 | ug/l  | 99       |

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

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```
Acq On       : 02 Apr 2018   12:43
Operator     : JC/MD
Sample       : VX0402WBS01
Misc         : 5.0mL/MSVOA_X/WATER
ALS Vial     : 4      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VX0402WBS01

## Manual Integrations

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4/4/2018 5:09:33 PM

Quant Time: Apr 03 02:49:30 2018  
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