

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042418\  
 Data File : VX001109.D  
 Acq On : 25 Apr 2018 05:58  
 Operator : JC/MD  
 Sample : J2463-17MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF015MW001-180416MS

Manual Integrations  
 APPROVED

Sohil  
 4/26/2018 4:06:34 AM

Quant Time: Apr 25 08:40:41 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 20 05:03:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 244117   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 339561   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 325942   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 223924   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 160501   | 51.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.74% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 132653   | 51.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.46% |      |
| 50) Toluene-d8            | 8.72   | 98  | 467021   | 48.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.56%  |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 194657   | 48.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.90%  |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 159295  | 52.61  | ug/l   | 100    |
| 3) Chloromethane              | 1.32 | 50  | 150759  | 53.48  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.40 | 62  | 191890  | 65.67  | ug/l   | 99     |
| 5) Bromomethane               | 1.64 | 94  | 95958   | 58.35  | ug/l   | 97     |
| 6) Chloroethane               | 1.73 | 64  | 91961   | 52.96  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 232440  | 52.95  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 85907   | 52.98  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 127608  | 49.61  | ug/l   | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 110307  | 44.45  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 3.07 | 59  | 150752  | 323.02 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 120759  | 50.77  | ug/l   | 99     |
| 13) Acrolein                  | 2.30 | 56  | 67848   | 457.18 | ug/l   | 100    |
| 14) Allyl chloride            | 2.73 | 41  | 206627  | 48.00  | ug/l   | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 366975  | 290.55 | ug/l   | 99     |
| 16) Acetone                   | 2.45 | 43  | 328657  | 282.05 | ug/l   | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 317491  | 46.84  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 239553  | 67.94  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 440095  | 55.04  | ug/l   | 100    |
| 20) Methylene Chloride        | 2.86 | 84  | 134621  | 54.97  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 134255  | 50.70  | ug/l   | 98     |
| 22) Diisopropyl ether         | 3.88 | 45  | 449637  | 53.96  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.83 | 43  | 1830377 | 265.33 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 236980  | 50.70  | ug/l   | 100    |
| 25) 2-Butanone                | 4.71 | 43  | 518478  | 285.03 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 75459   | 18.77  | ug/l # | 76     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 281661  | 95.50  | ug/l   | 90     |
| 28) Bromochloromethane        | 5.03 | 49  | 97251   | 54.11  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 336863  | 293.06 | ug/l   | 100    |
| 30) Chloroform                | 5.23 | 83  | 257026  | 53.10  | ug/l   | 100    |
| 31) Cyclohexane               | 5.59 | 56  | 208209  | 47.73  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97  | 227417  | 52.40  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 185036  | 46.37  | ug/l   | 100    |
| 37) Ethyl Acetate             | 4.87 | 43  | 202110  | 55.22  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 201255  | 49.81  | ug/l   | 98     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF015MW001-180416MS

Manual Integrations  
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Sohil  
 4/26/2018 4:06:34 AM

Quant Time: Apr 25 08:40:41 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 20 05:03:28 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.47  | 83   | 211072   | 45.44   | ug/l   | 99       |
| 40) Benzene                    | 6.15  | 78   | 554972   | 50.03   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 120586   | 52.76   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 219829   | 51.62   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.48  | 43   | 340191   | 54.17   | ug/l   | 99       |
| 44) Trichloroethene            | 7.22  | 130  | 162478   | 47.94   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 143570   | 51.47   | ug/l   | 99       |
| 46) Dibromomethane             | 7.67  | 93   | 99500    | 51.05   | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.91  | 83   | 190118   | 52.65   | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.79  | 41   | 182843   | 54.07   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 59417    | 1194.95 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 1114968  | 292.42  | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 367943   | 50.82   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 190981   | 44.23   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 182330   | 44.78   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 147799   | 51.36   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 226367   | 53.55   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 244603   | 51.30   | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 844079   | 289.22  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 164583   | 54.45   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 160054   | 52.70   | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 159547   | 46.09   | ug/l   | 100      |
| 65) Chlorobenzene              | 10.15 | 112  | 549070   | 63.26   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 157475   | 52.86   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.26 | 91   | 714996   | 49.61   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.37 | 106  | 567626   | 99.93   | ug/l   | 100      |
| 69) o-Xylene                   | 10.71 | 106  | 273512   | 49.94   | ug/l   | 98       |
| 70) Stvrene                    | 10.72 | 104  | 460418   | 51.05   | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 135310   | 48.85   | ug/l   | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 741547   | 50.65   | ug/l   | 100      |
| 74) N-amyl acetate             | 6.48  | 43   | 340191   | 54.32   | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 231304   | 55.81   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 209848m  | 54.01   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 211496   | 49.77   | ug/l   | 98       |
| 78) n-propylbenzene            | 11.37 | 91   | 834231   | 49.64   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 501448   | 50.49   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 635112   | 51.18   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 40366    | 33.06   | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 599018   | 49.92   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 653054   | 52.17   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 657869   | 51.51   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 751681   | 50.30   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 687961   | 49.77   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 397005   | 49.91   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 444276   | 54.41   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 586766   | 47.71   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 105998   | 54.12   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 405460   | 52.65   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 52761    | 60.77   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 304119   | 47.04   | ug/l   | 99       |

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ALS Vial : 37 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
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Quant Time: Apr 25 08:40:41 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 20 05:03:28 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 94) Hexachlorobutadiene    | 13.79 | 225  | 147221   | 50.33 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 869409   | 54.68 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 307885   | 49.24 | ug/l  | 100      |

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

