

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041319\  
 Data File : VX008927.D  
 Acq On : 13 Apr 2019 13:25  
 Operator : JC/SP  
 Sample : VX0413WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0413WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2019 12:55:18 PM

Quant Time: Apr 15 02:17:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 176745   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 278764   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 246868   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 117113   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 112304   | 43.56 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.12% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 85072    | 47.73 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.46% |      |
| 50) Toluene-d8            | 8.71   | 98  | 335958   | 47.34 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.68% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 123081   | 48.91 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.82% |      |

## Target Compounds

|                               |      |     |        |        | Qvalue   |
|-------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 42954  | 21.113 | ug/l 98  |
| 3) Chloromethane              | 1.33 | 50  | 50269  | 19.118 | ug/l 99  |
| 4) Vinyl Chloride             | 1.41 | 62  | 49380  | 17.955 | ug/l 98  |
| 5) Bromomethane               | 1.64 | 94  | 28173  | 21.896 | ug/l 99  |
| 6) Chloroethane               | 1.72 | 64  | 29435  | 17.638 | ug/l 96  |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 58530  | 19.252 | ug/l 100 |
| 8) Diethyl Ether              | 2.19 | 74  | 26040  | 18.062 | ug/l 93  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 36474  | 18.634 | ug/l 96  |
| 10) Methyl Iodide             | 2.51 | 142 | 32716  | 20.886 | ug/l 99  |
| 11) Tert butyl alcohol        | 3.05 | 59  | 59079  | 97.890 | ug/l 100 |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 36744  | 17.982 | ug/l 98  |
| 13) Acrolein                  | 2.29 | 56  | 23349  | 78.023 | ug/l 98  |
| 14) Allyl chloride            | 2.73 | 41  | 83152  | 17.776 | ug/l 100 |
| 15) Acrylonitrile             | 3.14 | 53  | 141058 | 88.225 | ug/l 99  |
| 16) Acetone                   | 2.45 | 43  | 125129 | 84.273 | ug/l 99  |
| 17) Carbon Disulfide          | 2.57 | 76  | 107147 | 17.681 | ug/l 100 |
| 18) Methyl Acetate            | 2.78 | 43  | 63487  | 17.630 | ug/l 100 |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 138632 | 18.998 | ug/l 100 |
| 20) Methylene Chloride        | 2.85 | 84  | 43668  | 17.570 | ug/l 97  |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 39150  | 17.713 | ug/l 94  |
| 22) Diisopropyl ether         | 3.85 | 45  | 164367 | 18.231 | ug/l 91  |
| 23) Vinyl Acetate             | 3.81 | 43  | 734996 | 93.712 | ug/l 100 |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 80344  | 17.999 | ug/l 98  |
| 25) 2-Butanone                | 4.67 | 43  | 210361 | 89.638 | ug/l 100 |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 58964  | 18.755 | ug/l 100 |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 45896  | 18.061 | ug/l 97  |
| 28) Bromochloromethane        | 5.01 | 49  | 35225  | 16.887 | ug/l 97  |
| 29) Tetrahydrofuran           | 5.13 | 42  | 139593 | 89.620 | ug/l 99  |
| 30) Chloroform                | 5.21 | 83  | 73345  | 18.396 | ug/l 97  |
| 31) Cyclohexane               | 5.58 | 56  | 81733  | 18.350 | ug/l 98  |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 61120  | 18.971 | ug/l 100 |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 56687  | 18.603 | ug/l 98  |
| 37) Ethyl Acetate             | 4.84 | 43  | 80153  | 19.707 | ug/l 98  |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 50560  | 20.047 | ug/l 98  |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 73504    | 19.527  | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 175117   | 19.291  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 44714    | 19.125  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 62360    | 19.162  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 124163   | 19.487  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 41753    | 19.748  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 49728    | 19.192  | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 28159    | 18.738  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 55328    | 19.527  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 62262    | 19.318  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 23066    | 382.038 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 409651   | 99.877  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 106610   | 19.920  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 63295    | 19.942  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 70040    | 19.312  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 41747    | 19.433  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 79162    | 20.366  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 75044    | 19.454  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 178279   | 89.825  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 315082   | 98.849  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 40583    | 20.047  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 43497    | 19.449  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 39685    | 21.697  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.13 | 112  | 108241   | 19.780  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 39330    | 20.487  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 200953   | 19.693  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 145879   | 39.761  | ug/l   | 98       |
| 69) o-Xylene                   | 10.69 | 106  | 71041    | 19.980  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 123147   | 20.093  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 30787    | 20.997  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 191108   | 19.691  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 108837   | 19.060  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 68691    | 18.610  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 60315m   | 18.748  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 46727    | 20.027  | ug/l   | 95       |
| 78) n-propylbenzene            | 11.36 | 91   | 219183   | 19.395  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 129392   | 18.920  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 161650   | 19.842  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 22553    | 19.324  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 149084   | 18.833  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 152736   | 19.487  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 162359   | 19.682  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 185021   | 19.873  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 170609   | 20.417  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 81560    | 19.526  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 81359    | 19.235  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 156219   | 19.935  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 27841    | 20.088  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 80730    | 19.466  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 15017    | 18.494  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 57123    | 19.810 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 29992    | 21.688 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 185957   | 19.295 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 56982    | 19.778 | ug/l  | 98       |

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

