

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100418\  
 Data File : VX005041.D  
 Acq On : 05 Oct 2018 01:23  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 77 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 10/5/2018 3:24:54 PM

Quant Time: Oct 05 05:17:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 217593   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 326511   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 313850   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 193381   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 155407   | 50.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.00% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 125057   | 45.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.38%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 470012   | 51.09 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.18% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 179510   | 54.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.32% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 153597  | 51.772  | ug/l | 97     |
| 3) Chloromethane              | 1.32 | 50  | 173196  | 48.117  | ug/l | 97     |
| 4) Vinyl Chloride             | 1.40 | 62  | 170692  | 50.561  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 129097  | 64.487  | ug/l | 94     |
| 6) Chloroethane               | 1.71 | 64  | 102107  | 55.767  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 220615  | 52.786  | ug/l | 93     |
| 8) Diethyl Ether              | 2.19 | 74  | 93630   | 51.568  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 123969  | 52.072  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 142922  | 44.863  | ug/l | 93     |
| 11) Tert butyl alcohol        | 3.09 | 59  | 232003  | 266.942 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 119365  | 50.628  | ug/l | 96     |
| 13) Acrolein                  | 2.29 | 56  | 82042   | 132.674 | ug/l | 91     |
| 14) Allyl chloride            | 2.72 | 41  | 269114  | 52.313  | ug/l | 96     |
| 15) Acrylonitrile             | 3.15 | 53  | 517497  | 270.480 | ug/l | 96     |
| 16) Acetone                   | 2.45 | 43  | 455066  | 250.767 | ug/l | 92     |
| 17) Carbon Disulfide          | 2.56 | 76  | 323018  | 45.594  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 294305  | 64.011  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 461166  | 56.707  | ug/l | 96     |
| 20) Methylene Chloride        | 2.85 | 84  | 144397  | 54.808  | ug/l | 91     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 130360  | 50.509  | ug/l | 85     |
| 22) Diisopropyl ether         | 3.87 | 45  | 473064  | 54.611  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.82 | 43  | 2034226 | 256.545 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 259228  | 50.167  | ug/l | 99     |
| 25) 2-Butanone                | 4.71 | 43  | 689277  | 257.682 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 143280  | 39.819  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 142783  | 49.522  | ug/l | 96     |
| 28) Bromochloromethane        | 5.02 | 49  | 118464  | 48.684  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.16 | 42  | 449678  | 270.474 | ug/l | 98     |
| 30) Chloroform                | 5.21 | 83  | 243957  | 49.954  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 208478  | 52.714  | ug/l | 90     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 207692  | 52.075  | ug/l | 94     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 177133  | 46.916  | ug/l | 94     |
| 37) Ethyl Acetate             | 4.86 | 43  | 243954  | 48.677  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 178987  | 45.099  | ug/l | 97     |

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 10/5/2018 3:24:54 PM

Quant Time: Oct 05 05:17:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 198197   | 51.410   | ug/l   | 86       |
| 40) Benzene                    | 6.15  | 78   | 570594   | 48.274   | ug/l   | 93       |
| 41) Methacrylonitrile          | 5.06  | 41   | 137926   | 49.626   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 200862   | 48.071   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 369362   | 51.062   | ug/l   | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 150146   | 51.673   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 157551   | 54.354   | ug/l   | 91       |
| 46) Dibromomethane             | 7.66  | 93   | 95381    | 52.359   | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.90  | 83   | 184314   | 54.040   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.78  | 41   | 192188   | 58.537   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 86131    | 1055.950 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1324304  | 290.764  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 344574   | 53.053   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 202447   | 52.526   | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 219060   | 54.264   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 147973   | 52.012   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 234953   | 50.842   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 244750   | 51.690   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 639772   | 260.361  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 1059607  | 279.182  | ug/l   | 95       |
| 60) Dibromochloromethane       | 9.59  | 129  | 153156   | 53.830   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 151570   | 49.747   | ug/l   | 96       |
| 64) Tetrachloroethene          | 9.34  | 164  | 146114   | 47.302   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 390381   | 48.507   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 143784   | 50.819   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 659674   | 51.629   | ug/l   | 96       |
| 68) m/p-Xylenes                | 10.36 | 106  | 513643   | 102.873  | ug/l   | 95       |
| 69) o-Xylene                   | 10.70 | 106  | 249897   | 54.491   | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 424060   | 49.464   | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 125645   | 51.871   | ug/l # | 96       |
| 73) Isopropylbenzene           | 11.02 | 105  | 664631   | 54.527   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 334440   | 49.922   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 247117   | 49.804   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 223129m  | 51.479   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 181953   | 51.393   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 754385   | 53.941   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 464557   | 53.291   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 564508   | 50.532   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 66909    | 42.416   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 544303   | 53.047   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 556750   | 55.477   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 588803   | 51.111   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 658726   | 53.889   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 593918   | 53.628   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 333303   | 50.417   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 337745   | 49.490   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 519993   | 51.699   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 95289    | 51.677   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 341721   | 49.462   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 57487    | 52.767   | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 77 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

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10/5/2018 3:24:54 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 03 04:00:03 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 252033   | 52.004 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 115800   | 46.078 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 828190   | 51.466 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 260621   | 52.058 | ug/l  | 100      |

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

