

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020320\  
 Data File : VX014788.D  
 Acq On : 03 Feb 2020 11:08  
 Operator : JC/SP  
 Sample : VX0203WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0203WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/4/2020 3:32:02 PM

Quant Time: Feb 03 11:32:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 22 12:35:15 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 431651   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 641693   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 586886   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 293150   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 248291   | 49.26 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.52%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 205055   | 50.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.28% |      |
| 50) Toluene-d8            | 8.71   | 98  | 776096   | 49.86 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.72%  |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 272739   | 49.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.38%  |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 96817   | 17.064 | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 98207   | 16.818 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 111872  | 17.719 | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 67399   | 15.716 | ug/l | 96     |
| 6) Chloroethane               | 1.72 | 64  | 70241   | 18.575 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 125673  | 17.094 | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 55525   | 17.303 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 77304   | 17.912 | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 88873   | 15.694 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.02 | 59  | 88317   | 78.040 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 73298   | 17.082 | ug/l | 98     |
| 13) Acrolein                  | 2.28 | 56  | 69035   | 77.367 | ug/l | 100    |
| 14) Allyl chloride            | 2.72 | 41  | 133150  | 17.264 | ug/l | 98     |
| 15) Acrylonitrile             | 3.13 | 53  | 220235  | 84.109 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 269573  | 97.670 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.56 | 76  | 185274  | 15.798 | ug/l | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 139409  | 17.679 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 248595  | 17.688 | ug/l | 100    |
| 20) Methylene Chloride        | 2.85 | 84  | 88035   | 17.221 | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 78887   | 16.697 | ug/l | 99     |
| 22) Diisopropyl ether         | 3.84 | 45  | 275582  | 17.959 | ug/l | 100    |
| 23) Vinyl Acetate             | 3.80 | 43  | 1024943 | 87.622 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 148291  | 17.795 | ug/l | 100    |
| 25) 2-Butanone                | 4.65 | 43  | 336840  | 85.100 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 119394  | 17.899 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 89412   | 16.909 | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 66229   | 18.085 | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 193265  | 82.267 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 146430  | 17.738 | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 132627  | 16.921 | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 124335  | 17.818 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 106498  | 17.861 | ug/l | 98     |
| 37) Ethyl Acetate             | 4.82 | 43  | 114870  | 16.820 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 103599  | 18.193 | ug/l | 99     |

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 Sample : VX0203WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0203WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/4/2020 3:32:02 PM

Quant Time: Feb 03 11:32:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 22 12:35:15 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 129065   | 17.278  | ug/l   | 96       |
| 40) Benzene                    | 6.13  | 78   | 330397   | 17.934  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.02  | 41   | 64127    | 16.287  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 120333   | 18.914  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 194910   | 17.429  | ug/l   | 98       |
| 44) Trichloroethene            | 7.20  | 130  | 90624    | 17.415  | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 87747    | 18.488  | ug/l   | 97       |
| 46) Dibromomethane             | 7.65  | 93   | 57150    | 18.592  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 112834   | 18.715  | ug/l   | 95       |
| 48) Methyl methacrylate        | 7.76  | 41   | 94825    | 17.747  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 38026    | 335.730 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 609267   | 86.320  | ug/l   | 100      |
| 52) Toluene                    | 8.78  | 92   | 208430   | 18.405  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 119319   | 18.380  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 135526   | 18.977  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 85058    | 18.345  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 125042   | 17.124  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 144376   | 18.215  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 214872   | 92.148  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 471548   | 86.095  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 88828    | 18.354  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 87349    | 17.818  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 102516   | 17.647  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.13 | 112  | 223384   | 17.795  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 84093    | 18.169  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 388129   | 18.108  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 295842   | 36.432  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 142531   | 18.181  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 240492   | 18.288  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 66414    | 18.044  | ug/l   | 98       |
| 73) Isopropylbenzene           | 11.01 | 105  | 382214   | 18.543  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 160126   | 17.728  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 128096   | 17.405  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 108700m  | 15.938  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 100308   | 18.114  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.35 | 91   | 437773   | 18.711  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 259428   | 18.326  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 320774   | 18.750  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 39398    | 16.439  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 299122   | 18.560  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 296759   | 18.460  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 321657   | 18.745  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 372640   | 18.922  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 340441   | 18.706  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 174742   | 17.559  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 178758   | 17.932  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 284313   | 17.936  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 59397    | 17.570  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 175804   | 17.787  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 25948    | 16.410  | ug/l   | 99       |

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Sample : VX0203WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0203WBS01

Manual Integrations  
APPROVED

MMDadoda  
2/4/2020 3:32:02 PM

Quant Time: Feb 03 11:32:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012220W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 22 12:35:15 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 112360   | 17.632 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 60800    | 18.538 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 328262   | 16.608 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 117210   | 18.190 | ug/l  | 98       |

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

