

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052020\  
 Data File : VX016352.D  
 Acq On : 20 May 2020 11:52  
 Operator : JC/SP  
 Sample : VX0520WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0520WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/21/2020 1:15:18 PM

Quant Time: May 21 04:16:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 274184   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 431387   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 390028   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 192265   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |       |
|---------------------------|--------|-----|----------|-------|--------|-------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 148762   | 41.23 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.46% |       |
| 35) Dibromofluoromethane  | 5.46   | 113 | 121815   | 44.57 | ug/l   | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.14% |       |
| 50) Toluene-d8            | 8.70   | 98  | 480307   | 45.61 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.22% |       |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 183403   | 45.79 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.58% |       |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 48768  | 16.804 | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 53500  | 15.874 | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 57984  | 16.125 | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 36301  | 20.024 | ug/l | 99     |
| 6) Chloroethane               | 1.71 | 64  | 35741  | 16.336 | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 78565  | 16.642 | ug/l | 97     |
| 8) Diethyl Ether              | 2.17 | 74  | 33441  | 16.812 | ug/l | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 45814  | 16.821 | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 43535  | 11.900 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 71032  | 77.855 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 46238  | 16.223 | ug/l | 98     |
| 13) Acrolein                  | 2.27 | 56  | 56620  | 99.172 | ug/l | 96     |
| 14) Allyl chloride            | 2.71 | 41  | 79982  | 15.305 | ug/l | 94     |
| 15) Acrylonitrile             | 3.11 | 53  | 156993 | 82.946 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 121836 | 75.682 | ug/l | 93     |
| 17) Carbon Disulfide          | 2.55 | 76  | 123046 | 14.228 | ug/l | 97     |
| 18) Methyl Acetate            | 2.75 | 43  | 68225  | 17.236 | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 173450 | 17.653 | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 53983  | 16.266 | ug/l | 92     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 50939  | 16.038 | ug/l | 98     |
| 22) Diisopropyl ether         | 3.82 | 45  | 163459 | 16.580 | ug/l | 91     |
| 23) Vinyl Acetate             | 3.78 | 43  | 686471 | 79.143 | ug/l | 97     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 94220  | 17.084 | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 208799 | 80.489 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 86632  | 17.200 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 60442  | 17.407 | ug/l | 96     |
| 28) Bromochloromethane        | 4.98 | 49  | 40812  | 16.229 | ug/l | 92     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 137531 | 80.013 | ug/l | 95     |
| 30) Chloroform                | 5.17 | 83  | 95586  | 17.407 | ug/l | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 79214  | 15.804 | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 85167  | 17.063 | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 70693  | 16.648 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 79393  | 16.131 | ug/l | 97     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 75022  | 17.382 | ug/l | 93     |

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 Sample : VX0520WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0520WBS01

Manual Integrations  
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MMDadoda  
 5/21/2020 1:15:18 PM

Quant Time: May 21 04:16:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 76849    | 15.028  | ug/l   | 97       |
| 40) Benzene                    | 6.11  | 78   | 217777   | 17.528  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 44653    | 16.800  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 74545    | 16.655  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 127569   | 16.245  | ug/l   | 96       |
| 44) Trichloroethene            | 7.19  | 130  | 73758    | 16.710  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 56602    | 18.004  | ug/l   | 100      |
| 46) Dibromomethane             | 7.64  | 93   | 37323    | 17.469  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.87  | 83   | 75940    | 17.452  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 59208    | 15.912  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 27556    | 308.778 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 405000   | 84.280  | ug/l   | 97       |
| 52) Toluene                    | 8.76  | 92   | 140082   | 18.088  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 89044    | 17.163  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 95380    | 17.601  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 55297    | 18.148  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 88358    | 17.765  | ug/l   | 91       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 95650    | 17.991  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 221071   | 83.491  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 310106   | 82.173  | ug/l   | 96       |
| 60) Dibromochloromethane       | 9.57  | 129  | 60254    | 17.955  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 58724    | 17.793  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 83768    | 17.495  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 149032   | 18.249  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 56416    | 18.690  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.24 | 91   | 261423   | 17.941  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 198268   | 36.317  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 96129    | 18.318  | ug/l   | 99       |
| 70) Styrene                    | 10.69 | 104  | 162395   | 18.241  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 45584    | 18.536  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 252604   | 18.063  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 106967   | 16.399  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 55036    | 22.334  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 80461m   | 18.442  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 63744    | 17.660  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 279858   | 17.202  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 170967   | 17.804  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 207690   | 17.590  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 31596    | 17.258  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 203179   | 17.917  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 176800   | 17.375  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 210906   | 17.668  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 223226   | 16.248  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 211396   | 16.573  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 114203   | 17.621  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 115675   | 17.585  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 171407   | 14.709  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 35017    | 15.985  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 112543   | 18.034  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 19249    | 16.740  | ug/l   | 98       |

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Sample : VX0520WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0520WBS01

Manual Integrations  
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MMDadoda  
5/21/2020 1:15:18 PM

Quant Time: May 21 04:16:38 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 71432    | 15.460 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 27746    | 14.324 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 252208   | 16.858 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 70585    | 15.632 | ug/l  | 98       |

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

