

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071420\  
 Data File : VX017375.D  
 Acq On : 14 Jul 2020 13:48  
 Operator : JC/SP  
 Sample : L3216-09 2.5PPB MDL  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-03-QT3-2020

Manual Integrations  
 APPROVED

MMDadoda  
 7/15/2020 11:43:26 AM

Quant Time: Jul 15 03:05:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071320W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 15 02:05:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 295049   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 454274   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 428571   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 222548   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 183344     | 49.51  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 99.02% |       |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 148477     | 48.52  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 97.04% |       |          |
| 50) Toluene-d8              | 8.70  | 98   | 531690     | 48.17  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 96.34% |       |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 195507     | 44.59  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 89.18% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85   | 5649     | 2.263  | ug/l   | 92     |
| 3) Chloromethane              | 1.31 | 50   | 6684     | 2.378  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.39 | 62   | 6399     | 2.301  | ug/l   | 95     |
| 5) Bromomethane               | 1.64 | 94   | 6047     | 3.341  | ug/l # | 77     |
| 6) Chloroethane               | 1.72 | 64   | 4703     | 2.680  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 12000    | 2.557  | ug/l   | 96     |
| 8) Diethyl Ether              | 2.17 | 74   | 4523     | 2.726  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 7415     | 2.774  | ug/l   | 94     |
| 10) Methyl Iodide             | 2.49 | 142  | 5847     | 1.803  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59   | 7904     | 12.669 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 7500     | 2.793  | ug/l   | 98     |
| 13) Acrolein                  | 2.28 | 56   | 3383     | 9.891  | ug/l   | 85     |
| 14) Allyl chloride            | 2.71 | 41   | 12417    | 2.669  | ug/l   | 99     |
| 15) Acrylonitrile             | 3.12 | 53   | 19517    | 12.904 | ug/l   | 98     |
| 16) Acetone                   | 2.42 | 43   | 17805    | 13.477 | ug/l   | 94     |
| 17) Carbon Disulfide          | 2.55 | 76   | 20131    | 2.570  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.75 | 43   | 8798     | 2.696  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73   | 21895    | 2.402  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.84 | 84   | 8901     | 2.761  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96   | 8276     | 2.694  | ug/l   | 89     |
| 22) Diisopropyl ether         | 3.82 | 45   | 22231    | 2.508  | ug/l # | 60     |
| 23) Vinyl Acetate             | 3.79 | 43   | 90954    | 11.670 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63   | 13862    | 2.661  | ug/l   | 97     |
| 25) 2-Butanone                | 4.64 | 43   | 26146    | 12.460 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 4.55 | 77   | 12150    | 2.507  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96   | 9014     | 2.676  | ug/l   | 97     |
| 28) Bromochloromethane        | 4.98 | 49   | 6096     | 2.534  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 5.10 | 42   | 17014    | 12.526 | ug/l   | 98     |
| 30) Chloroform                | 5.18 | 83   | 14950    | 2.668  | ug/l   | 96     |
| 31) Cyclohexane               | 5.56 | 56   | 10397    | 2.438  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97   | 13116    | 2.532  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 5.77 | 75   | 10888    | 2.606  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.80 | 43   | 10842    | 2.509  | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 5.76 | 117  | 12002    | 2.453  | ug/l   | 97     |

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 ALS Vial : 12 Sample Multiplier: 1

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071320W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 15 02:05:30 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.43  | 83   | 10405    | 2.293  | ug/l   | 95       |
| 40) Benzene                    | 6.12  | 78   | 30928    | 2.576  | ug/l # | 89       |
| 41) Methacrylonitrile          | 5.01  | 41   | 5557     | 2.395  | ug/l # | 83       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 12529    | 2.685  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 16853    | 2.441  | ug/l   | 98       |
| 44) Trichloroethene            | 7.19  | 130  | 9657     | 2.633  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 8068     | 2.626  | ug/l   | 97       |
| 46) Dibromomethane             | 7.64  | 93   | 5734     | 2.587  | ug/l   | 96       |
| 47) Bromodichloromethane       | 7.88  | 83   | 10947    | 2.363  | ug/l   | 92       |
| 48) Methyl methacrylate        | 7.75  | 41   | 7887     | 2.380  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 2932     | 43.239 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 48680    | 11.562 | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 19917    | 2.585  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 11147    | 2.233  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 12333    | 2.317  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 8319     | 2.589  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 9969     | 2.185  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 13143    | 2.459  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 23947    | 10.338 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 35386    | 11.136 | ug/l   | 93       |
| 60) Dibromochloromethane       | 9.57  | 129  | 9591     | 2.443  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 8102     | 2.318  | ug/l   | 92       |
| 64) Tetrachloroethene          | 9.32  | 164  | 9641     | 2.599  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 21422    | 2.460  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 8868     | 2.557  | ug/l   | 93       |
| 67) Ethyl Benzene              | 10.23 | 91   | 33766    | 2.329  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 24818    | 4.499  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 12183    | 2.311  | ug/l   | 93       |
| 70) Styrene                    | 10.70 | 104  | 19076    | 2.108  | ug/l   | 98       |
| 71) Bromoform                  | 10.84 | 173  | 6451     | 2.205  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 30883    | 2.214  | ug/l   | 98       |
| 74) N-amyl acetate             | 10.88 | 43   | 11665    | 2.090  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 11672    | 2.756  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 9171m    | 2.230  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 10241    | 2.577  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 36457    | 2.327  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 23110    | 2.394  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 26703    | 2.255  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 3635     | 2.242  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 27691    | 2.420  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 25884    | 2.261  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 25698    | 2.148  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 29271    | 2.184  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 25771    | 2.032  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 17308    | 2.435  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 18713    | 2.606  | ug/l   | 88       |
| 89) n-Butylbenzene             | 12.37 | 91   | 23721    | 2.193  | ug/l   | 97       |
| 90) Hexachloroethane           | 12.58 | 117  | 6096     | 2.532  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 17621    | 2.638  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 2413     | 2.159  | ug/l   | 96       |

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ALS Vial : 12 Sample Multiplier: 1

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MSVOA\_X  
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Quant Title : SW846 8260  
QLast Update : Wed Jul 15 02:05:30 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 10390    | 2.241 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 5091     | 2.692 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 26269    | 1.927 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 10120    | 2.259 | ug/l  | 99       |

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

