

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX090820\  
 Data File : VX018289.D  
 Acq On : 08 Sep 2020 20:35  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 9/9/2020 8:48:11 PM

Quant Time: Sep 09 02:35:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 443866   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 696465   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 665529   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 381439   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 264487   | 42.92 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.84% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 204317   | 43.08 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.16% |      |
| 50) Toluene-d8            | 8.70   | 98  | 709094   | 40.14 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 80.28% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 301553   | 43.38 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.76% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 227713  | 42.137  | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 207920  | 36.493  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 227270  | 40.072  | ug/l | 98     |
| 5) Bromomethane               | 1.62 | 94  | 135487  | 49.527  | ug/l | 98     |
| 6) Chloroethane               | 1.70 | 64  | 136915  | 44.946  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 387374  | 50.090  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 119564  | 45.588  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 191819  | 45.879  | ug/l | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 177666  | 40.804  | ug/l | 94     |
| 11) Tert butyl alcohol        | 3.02 | 59  | 269360  | 224.820 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 187970  | 43.334  | ug/l | 97     |
| 13) Acrolein                  | 2.28 | 56  | 95806   | 192.850 | ug/l | 98     |
| 14) Allyl chloride            | 2.71 | 41  | 335909  | 43.103  | ug/l | 96     |
| 15) Acrylonitrile             | 3.12 | 53  | 580688  | 213.662 | ug/l | 98     |
| 16) Acetone                   | 2.42 | 43  | 520701  | 216.860 | ug/l | 95     |
| 17) Carbon Disulfide          | 2.55 | 76  | 510857  | 38.958  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 291737  | 50.351  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 699907  | 47.049  | ug/l | 100    |
| 20) Methylene Chloride        | 2.83 | 84  | 218949  | 44.468  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 204240  | 42.499  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.83 | 45  | 689931  | 44.855  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.78 | 43  | 3080516 | 225.077 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 392609  | 44.840  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 829836  | 210.293 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 306342  | 43.001  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 234965  | 42.435  | ug/l | 99     |
| 28) Bromochloromethane        | 4.98 | 49  | 175924  | 41.625  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 533586  | 212.414 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 416492  | 45.939  | ug/l | 98     |
| 31) Cyclohexane               | 5.55 | 56  | 299444  | 40.600  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 393078  | 47.245  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 287830  | 44.807  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 325787  | 43.666  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 357741  | 49.416  | ug/l | 99     |

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 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
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 VSTDCCC050EC

Manual Integrations  
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MMDadoda  
 9/9/2020 8:48:11 PM

Quant Time: Sep 09 02:35:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 296499   | 42.211  | ug/l   | 96       |
| 40) Benzene                    | 6.11  | 78   | 846452   | 44.844  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.01  | 41   | 177436   | 43.313  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 357301   | 49.406  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 526977   | 43.730  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 237983   | 44.621  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 227726   | 44.763  | ug/l   | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 164862   | 46.083  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.88  | 83   | 343854   | 48.138  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.74  | 41   | 262889   | 43.822  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 89530    | 823.904 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1695364  | 227.754 | ug/l   | 100      |
| 52) Toluene                    | 8.77  | 92   | 534570   | 44.663  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 366254   | 46.263  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 376575   | 44.903  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 231495   | 45.349  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 349066   | 45.998  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 379631   | 45.090  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 636509   | 186.455 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1296272  | 229.016 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 285625   | 47.697  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 252019   | 45.474  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 203487   | 41.607  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.12 | 112  | 603220   | 45.382  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 253380   | 48.365  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.24 | 91   | 1038136  | 45.926  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 803775   | 95.268  | ug/l   | 97       |
| 69) o-Xylene                   | 10.68 | 106  | 385867   | 47.179  | ug/l   | 97       |
| 70) Styrene                    | 10.70 | 104  | 681838   | 48.953  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 231646   | 51.839  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 1055653  | 41.957  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 486408   | 40.746  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 366024   | 41.239  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 335258m  | 39.511  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 289293   | 41.596  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.34 | 91   | 1211742  | 42.416  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 752422   | 42.630  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 931581   | 45.057  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 127026   | 40.432  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 889897   | 42.412  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 908848   | 44.543  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 954603   | 45.160  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1035826  | 44.641  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 967811   | 45.408  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 515970   | 42.256  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 529275   | 43.291  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.37 | 91   | 824908   | 42.404  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 196502   | 46.860  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 501098   | 43.596  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 92521    | 41.690  | ug/l   | 97       |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
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MMDadoda  
9/9/2020 8:48:11 PM

Quant Time: Sep 09 02:35:09 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 334955   | 43.702 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 140728   | 46.550 | ug/l  | 96       |
| 95) Naphthalene            | 13.82 | 128  | 1065847  | 42.254 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 331209   | 43.733 | ug/l  | 97       |

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

