

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072320\  
 Data File : VX017506.D  
 Acq On : 23 Jul 2020 21:18  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/24/2020 9:56:10 AM

Quant Time: Jul 24 06:49:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 507205   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 787555   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 807763   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 385163   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 335410   | 51.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.96% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 259120   | 49.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.38%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 1038651  | 54.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.32% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 355884   | 46.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.60%  |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 242047  | 51.467  | ug/l   | 99     |
| 3) Chloromethane              | 1.32 | 50  | 337756  | 53.844  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 318743  | 49.940  | ug/l   | 100    |
| 5) Bromomethane               | 1.62 | 94  | 189811  | 55.675  | ug/l   | 97     |
| 6) Chloroethane               | 1.71 | 64  | 188082  | 53.493  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 483728  | 48.185  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 175212  | 53.941  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 261886  | 47.537  | ug/l   | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 340578  | 48.322  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.02 | 59  | 371167  | 270.303 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 269441  | 51.431  | ug/l   | 95     |
| 13) Acrolein                  | 2.28 | 56  | 253773  | 242.193 | ug/l   | 100    |
| 14) Allyl chloride            | 2.71 | 41  | 481566  | 50.341  | ug/l   | 100    |
| 15) Acrylonitrile             | 3.12 | 53  | 756349  | 255.020 | ug/l   | 99     |
| 16) Acetone                   | 2.42 | 43  | 773974  | 269.903 | ug/l   | 100    |
| 17) Carbon Disulfide          | 2.55 | 76  | 772117  | 48.489  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 333945  | 49.447  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 906404  | 49.987  | ug/l   | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 283284  | 52.517  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 272704  | 48.590  | ug/l   | 98     |
| 22) Diisopropyl ether         | 3.82 | 45  | 902220  | 51.581  | ug/l # | 83     |
| 23) Vinyl Acetate             | 3.79 | 43  | 4154538 | 266.392 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 515735  | 51.185  | ug/l   | 98     |
| 25) 2-Butanone                | 4.64 | 43  | 1235015 | 303.166 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 418188  | 46.366  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 337521  | 55.369  | ug/l   | 98     |
| 28) Bromochloromethane        | 4.99 | 49  | 236002  | 51.687  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 706808  | 280.105 | ug/l   | 99     |
| 30) Chloroform                | 5.18 | 83  | 520252  | 50.533  | ug/l   | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 376239  | 46.825  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 485356  | 49.994  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 363869  | 48.173  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.79 | 43  | 461100  | 55.793  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 436302  | 47.566  | ug/l   | 98     |

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 Data File : VX017506.D  
 Acq On : 23 Jul 2020 21:18  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/24/2020 9:56:10 AM

Quant Time: Jul 24 06:49:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 376454   | 42.693   | ug/l   | 98       |
| 40) Benzene                    | 6.12  | 78   | 1065041  | 49.182   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 249233   | 52.612   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 453869   | 51.231   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 705882   | 51.766   | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 307736   | 48.627   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 271938   | 45.299   | ug/l   | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 196175   | 46.240   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.88  | 83   | 409765   | 48.002   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.75  | 41   | 333703   | 49.370   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.71  | 88   | 140113   | 1081.196 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 2499939  | 307.266  | ug/l   | 99       |
| 52) Toluene                    | 8.77  | 92   | 768592   | 55.343   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 529689   | 55.431   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 547086   | 56.129   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 337020   | 58.254   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 520473   | 59.714   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 553340   | 58.086   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 1311397  | 285.582  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 1948790  | 318.141  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 416641   | 56.661   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 365456   | 59.333   | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 328927   | 45.370   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 804391   | 46.007   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 336667   | 47.711   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 1399231  | 47.942   | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 1057993  | 93.574   | ug/l   | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 505354   | 46.472   | ug/l   | 99       |
| 70) Styrene                    | 10.69 | 104  | 875490   | 47.319   | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 286225   | 46.818   | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 1281261  | 48.491   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 596408   | 50.802   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 393485   | 47.710   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 385884m  | 48.704   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 356544   | 48.200   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 1427167  | 47.890   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 869264   | 47.088   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1116410  | 49.486   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 147282   | 46.841   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1052540  | 48.335   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1068973  | 49.520   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1114632  | 49.674   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1217037  | 48.397   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1167466  | 48.751   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 604855   | 47.616   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 609553   | 46.327   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 984619   | 46.142   | ug/l   | 98       |
| 90) Hexachloroethane           | 12.58 | 117  | 217650   | 46.100   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 582174   | 46.631   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 106142   | 45.739   | ug/l   | 98       |

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Data File : VX017506.D  
Acq On : 23 Jul 2020 21:18  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
7/24/2020 9:56:10 AM

Quant Time: Jul 24 06:49:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 24 05:48:09 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 424613   | 49.834 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 175596   | 44.770 | ug/l  | 96       |
| 95) Naphthalene            | 13.82 | 128  | 1335827  | 52.518 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 423103   | 50.291 | ug/l  | 99       |

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

