

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX072420\  
 Data File : VX017532.D  
 Acq On : 24 Jul 2020 10:44  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/27/2020 11:04:01 AM

Quant Time: Jul 25 02:13:24 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  | 633357   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 941759   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 897820   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 490555   | 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   | 371931   | 45.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 91.44% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 288712   | 45.84 | ug/l   | -0.01    |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 91.68% |          |
| 50) Toluene-d8              | 8.70  | 98   | 1050143  | 46.22 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 92.44% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 430497   | 47.34 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 94.68% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85   | 294698   | 50.155  | ug/l  | 100    |
| 3) Chloromethane              | 1.31 | 50   | 322473   | 41.255  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.39 | 62   | 322282   | 40.437  | ug/l  | 98     |
| 5) Bromomethane               | 1.62 | 94   | 202328   | 47.051  | ug/l  | 97     |
| 6) Chloroethane               | 1.70 | 64   | 197562   | 44.874  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.91 | 101  | 522817   | 41.705  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.17 | 74   | 177972   | 43.616  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101  | 280242   | 40.737  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.49 | 142  | 352239   | 40.023  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 3.01 | 59   | 381805   | 222.669 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 268373   | 41.024  | ug/l  | 98     |
| 13) Acrolein                  | 2.27 | 56   | 279387   | 214.020 | ug/l  | 99     |
| 14) Allyl chloride            | 2.70 | 41   | 519272   | 43.471  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.11 | 53   | 828237   | 223.636 | ug/l  | 99     |
| 16) Acetone                   | 2.42 | 43   | 744160   | 207.818 | ug/l  | 96     |
| 17) Carbon Disulfide          | 2.55 | 76   | 817952   | 41.136  | ug/l  | 98     |
| 18) Methyl Acetate            | 2.75 | 43   | 363587   | 43.113  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73   | 999149   | 44.127  | ug/l  | 98     |
| 20) Methylene Chloride        | 2.83 | 84   | 317461   | 46.996  | ug/l  | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96   | 309137   | 44.111  | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.82 | 45   | 1012693  | 46.365  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.78 | 43   | 4583334  | 235.351 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63   | 560343   | 44.535  | ug/l  | 99     |
| 25) 2-Butanone                | 4.64 | 43   | 1177832  | 231.540 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 4.55 | 77   | 535704   | 47.565  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96   | 345886   | 45.439  | ug/l  | 99     |
| 28) Bromochloromethane        | 4.98 | 49   | 255412   | 44.796  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42   | 751891   | 238.621 | ug/l  | 99     |
| 30) Chloroform                | 5.17 | 83   | 590003   | 45.893  | ug/l  | 98     |
| 31) Cyclohexane               | 5.54 | 56   | 471823   | 47.025  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97   | 555831   | 45.849  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.76 | 75   | 437170   | 48.401  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.79 | 43   | 462624   | 46.811  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117  | 506466   | 46.175  | ug/l  | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX072420\  
 Data File : VX017532.D  
 Acq On : 24 Jul 2020 10:44  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/27/2020 11:04:01 AM

Quant Time: Jul 25 02:13:24 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   | 504278   | 47.826   | ug/l   | 99       |
| 40) Benzene                    | 6.11  | 78   | 1233007  | 47.615   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 257807   | 45.511   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 502989   | 47.479   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 767845   | 47.090   | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 371228   | 49.054   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 331770   | 46.217   | ug/l   | 100      |
| 46) Dibromomethane             | 7.63  | 93   | 233132   | 45.954   | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.87  | 83   | 487763   | 47.783   | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 386670   | 47.839   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.71  | 88   | 163846   | 1057.311 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 2366382  | 243.226  | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 794335   | 47.831   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 543456   | 47.559   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 565847   | 48.548   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 329896   | 47.686   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 517318   | 49.634   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 547649   | 48.075   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 1316299  | 239.713  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 1846517  | 252.086  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 417511   | 47.482   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 359208   | 48.770   | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 375788   | 46.634   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 898322   | 46.225   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 362729   | 46.248   | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.23 | 91   | 1573254  | 48.498   | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.34 | 106  | 1205806  | 95.950   | ug/l   | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 575767   | 47.636   | ug/l   | 100      |
| 70) Styrene                    | 10.70 | 104  | 1021151  | 49.656   | ug/l   | 98       |
| 71) Bromoform                  | 10.84 | 173  | 326316   | 48.022   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 1590080  | 47.249   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 715294   | 47.839   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 473533   | 45.080   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 473309m  | 46.904   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 430010   | 45.643   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 1818147  | 47.902   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 1101984  | 46.870   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1393223  | 48.488   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 188179   | 46.990   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1310266  | 47.243   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1340318  | 48.750   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1414737  | 49.503   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1560088  | 48.710   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1510396  | 49.521   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 765937   | 47.343   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 771324   | 46.027   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 1321107  | 48.610   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 271781   | 45.198   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 718724   | 45.201   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 122832   | 41.795   | ug/l   | 100      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX072420\  
Data File : VX017532.D  
Acq On : 24 Jul 2020 10:44  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
7/27/2020 11:04:01 AM

Quant Time: Jul 25 02:13:24 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  | 513733   | 47.340 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 234419   | 46.927 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 1580544  | 48.789 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 500064   | 46.669 | ug/l  | 97       |

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

