

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052919\  
 Data File : VX009949.D  
 Acq On : 29 May 2019 18:47  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/30/2019 9:54:32 AM

Quant Time: May 30 03:17:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 157288   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 251124   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 230419   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 111687   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 115937   | 52.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.36% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 83080    | 52.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.24% |      |
| 50) Toluene-d8            | 8.71   | 98  | 339676   | 52.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.96% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 122417   | 53.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.32% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 110837  | 57.667  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 132878  | 51.425  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 122338  | 52.521  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 66454   | 47.088  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 70993   | 49.511  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 133547  | 51.883  | ug/l | 97     |
| 8) Diethyl Ether              | 2.19 | 74  | 57210   | 47.297  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 78956   | 50.807  | ug/l | 100    |
| 10) Methyl Iodide             | 2.51 | 142 | 95518   | 49.671  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.06 | 59  | 138968  | 254.152 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 80358   | 50.447  | ug/l | 99     |
| 13) Acrolein                  | 2.29 | 56  | 80011   | 210.113 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 204607  | 52.849  | ug/l | 99     |
| 15) Acrylonitrile             | 3.14 | 53  | 337815  | 256.410 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 310339  | 241.749 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 243628  | 50.507  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 158553  | 53.080  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 312197  | 51.913  | ug/l | 100    |
| 20) Methylene Chloride        | 2.85 | 84  | 98256   | 49.981  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 87275   | 49.242  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.85 | 45  | 390633  | 53.029  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1776828 | 268.501 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 184914  | 51.798  | ug/l | 100    |
| 25) 2-Butanone                | 4.68 | 43  | 521905  | 260.950 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 130999  | 48.510  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 102120  | 49.914  | ug/l | 98     |
| 28) Bromochloromethane        | 5.02 | 49  | 93638   | 50.546  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 340515  | 265.502 | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 167638  | 52.069  | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 182163  | 53.876  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 140756  | 53.683  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 129891  | 50.979  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.84 | 43  | 193522  | 54.510  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 115652  | 52.527  | ug/l | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052919\  
 Data File : VX009949.D  
 Acq On : 29 May 2019 18:47  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/30/2019 9:54:32 AM

Quant Time: May 30 03:17:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 160772   | 53.195  | ug/l  | 98       |
| 40) Benzene                    | 6.14  | 78   | 399144   | 52.808  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 108168   | 52.141  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 144772   | 51.810  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 301062   | 52.556  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 91432    | 49.801  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 114171   | 52.473  | ug/l  | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 64209    | 50.135  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 129802   | 53.297  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 156331   | 55.128  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 52102    | 987.745 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1005692  | 269.880 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 241597   | 52.645  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 153274   | 52.476  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 166709   | 52.384  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 96044    | 51.998  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 181667   | 55.245  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 174510   | 52.609  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 455474   | 264.144 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 768468   | 267.852 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 97352    | 53.580  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 100083   | 52.742  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 82113    | 51.019  | ug/l  | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 246977   | 51.199  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 89564    | 53.532  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 458164   | 52.898  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 335795   | 104.943 | ug/l  | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 163685   | 53.340  | ug/l  | 100      |
| 70) Styrene                    | 10.71 | 104  | 288940   | 53.696  | ug/l  | 100      |
| 71) Bromoform                  | 10.85 | 173  | 74508    | 54.480  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 438108   | 53.165  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 272740   | 55.388  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 160598   | 52.239  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 142854m  | 53.488  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 108005   | 51.430  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 511805   | 53.883  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 299666   | 51.637  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 366442   | 52.784  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 55496    | 51.410  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 351032   | 51.961  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 359861   | 54.181  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 370826   | 52.597  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 425295   | 53.824  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 386303   | 54.354  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 190465   | 50.943  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 188763   | 49.505  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 358251   | 53.636  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 66797    | 54.766  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 189107   | 51.302  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 36214    | 50.044  | ug/l  | 96       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052919\  
Data File : VX009949.D  
Acq On : 29 May 2019 18:47  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
5/30/2019 9:54:32 AM

Quant Time: May 30 03:17:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 134024   | 50.878 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 68046    | 51.501 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 429515   | 52.396 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 134026   | 50.829 | ug/l  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052919\  
 Data File : VX009949.D  
 Acq On : 29 May 2019 18:47  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 5/30/2019 9:54:32 AM

Quant Time: May 30 03:17:44 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

