

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012623\  
 Data File : VX033902.D  
 Acq On : 26 Jan 2023 11:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/27/2023  
 Supervised By : Semsettin Yesilyurt 01/27/2023

Quant Time: Jan 27 02:50:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 11 14:48:42 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 167561     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 231797     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 205767     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 109929     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.946          | 65   | 78101      | 44.268   | ug/l   | -0.01    |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 88.540%  |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 72345      | 50.263   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 100.520% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 258000     | 49.197   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 98.400%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 95364      | 48.978   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 97.960%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 60656      | 45.807   | ug/l   | 94       |
| 3) Chloromethane             | 1.294          | 50   | 69458      | 47.488   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.373          | 62   | 71816      | 50.594   | ug/l   | 99       |
| 5) Bromomethane              | 1.611          | 94   | 34526      | 42.334   | ug/l   | 98       |
| 6) Chloroethane              | 1.684          | 64   | 44567      | 50.785   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 113089     | 49.128   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.129          | 74   | 44983      | 59.681   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 72069      | 54.264   | ug/l   | 94       |
| 10) Methyl Iodide            | 2.453          | 142  | 96792      | 52.006   | ug/l   | 92       |
| 11) Tert butyl alcohol       | 2.958          | 59   | 66995      | 218.591  | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 2.318          | 96   | 66838      | 49.023   | ug/l   | 90       |
| 13) Acrolein                 | 2.233          | 56   | 90124      | 318.704  | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 120439     | 46.835   | ug/l   | 88       |
| 15) Acrylonitrile            | 3.056          | 53   | 195357     | 242.197  | ug/l   | 99       |
| 16) Acetone                  | 2.373          | 43   | 186690     | 293.321  | ug/l   | 94       |
| 17) Carbon Disulfide         | 2.513          | 76   | 150923     | 43.968   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.696          | 43   | 121750     | 49.448   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.105          | 73   | 224359     | 47.380   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 75497      | 49.174   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 72497      | 45.485   | ug/l   | 94       |
| 22) Diisopropyl ether        | 3.751          | 45   | 243243     | 47.013   | ug/l   | 99       |
| 23) Vinyl Acetate            | 3.714          | 43   | 930593     | 238.926  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 130408     | 46.069   | ug/l   | 99       |
| 25) 2-Butanone               | 4.544          | 43   | 273528     | 237.284  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.470          | 77   | 97147      | 47.911   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 86987      | 47.471   | ug/l   | 97       |
| 28) Bromochloromethane       | 4.891          | 49   | 57582      | 44.658   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 4.995          | 42   | 171156     | 235.579  | ug/l   | 98       |
| 30) Chloroform               | 5.086          | 83   | 136525     | 47.090   | ug/l   | 99       |
| 31) Cyclohexane              | 5.464          | 56   | 115146     | 44.353   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 117356     | 47.409   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 98998      | 47.127   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.702          | 43   | 102532     | 51.224   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.671          | 117  | 107549     | 49.433   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.378          | 83   | 125973     | 48.561   | ug/l   | 97       |
| 40) Benzene                  | 6.031          | 78   | 298277     | 48.715   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012623\  
 Data File : VX033902.D  
 Acq On : 26 Jan 2023 11:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/27/2023  
 Supervised By : Semsettin Yesilyurt 01/27/2023

Quant Time: Jan 27 02:50:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 11 14:48:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.909  | 41   | 61063    | 52.750  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 102060   | 47.035  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.330  | 43   | 166663   | 50.256  | ug/l   | 98       |
| 44) Trichloroethene           | 7.122  | 130  | 90099    | 52.622  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 77489    | 50.520  | ug/l   | 99       |
| 46) Dibromomethane            | 7.574  | 93   | 53702    | 50.126  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.817  | 83   | 105496   | 51.095  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.683  | 41   | 84259    | 50.439  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 7.671  | 88   | 32367    | 875.928 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.567  | 43   | 517400   | 254.042 | ug/l   | 98       |
| 52) Toluene                   | 8.714  | 92   | 195239   | 49.377  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 110642   | 53.585  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.360  | 75   | 123679   | 53.457  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.146  | 97   | 80520    | 51.445  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 118948   | 54.001  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 131404   | 51.776  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 286511   | 264.113 | ug/l   | 97       |
| 59) 2-Hexanone                | 9.427  | 43   | 385734   | 272.112 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.518  | 129  | 90387    | 55.703  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 84723    | 54.239  | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.274  | 164  | 80468    | 55.718  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 217150   | 50.977  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131  | 83740    | 53.416  | ug/l   | 100      |
| 67) Ethyl Benzene             | 10.195 | 91   | 373318   | 51.043  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 296605   | 103.682 | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 143198   | 50.475  | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 241762   | 52.399  | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 70805    | 53.899  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 380522   | 52.742  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 138026   | 47.815  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 112886   | 53.620  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 91691m   | 45.397  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 103111   | 52.962  | ug/l   | 97       |
| 78) n-propylbenzene           | 11.305 | 91   | 426507   | 47.547  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 248658   | 51.396  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 314625   | 47.564  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 32223    | 49.582  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 286997   | 51.856  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 334255   | 50.892  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 315447   | 50.414  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 399228   | 50.820  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 347911   | 51.729  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 189616   | 51.049  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 190971   | 50.470  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 285883   | 51.958  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 56457    | 51.031  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 183125   | 51.091  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 23015    | 51.306  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 134565   | 55.735  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 64078    | 54.180  | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 380166   | 54.731  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 133323   | 55.186  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012623\  
Data File : VX033902.D  
Acq On : 26 Jan 2023 11:36  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 01/27/2023  
Supervised By :Semsettin Yesilyurt 01/27/2023

Quant Time: Jan 27 02:50:40 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011123W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 11 14:48:42 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012623\  
 Data File : VX033902.D  
 Acq On : 26 Jan 2023 11:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

### Manual Integrations APPROVED

Reviewed By :John Carlone 01/27/2023  
 Supervised By :Semsettin Yesilyurt 01/27/2023

Quant Time: Jan 27 02:50:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 11 14:48:42 2023  
 Response via : Initial Calibration

