

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX073123\  
 Data File : VX036735.D  
 Acq On : 31 Jul 2023 21:11  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 01 04:43:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/01/2023  
 Supervised By : Mahesh Dadoda 08/01/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 133121     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 232589     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 211863     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 107575     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 95895      | 48.685   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 97.360%  |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 79912      | 49.986   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.980%  |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 278505     | 49.125   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 98.260%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 109589     | 51.235   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 102.480% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 76918      | 43.739   | ug/l   | 98       |
| 3) Chloromethane             | 1.300          | 50   | 72187      | 45.131   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 76985      | 47.274   | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 49938      | 51.364   | ug/l   | 98       |
| 6) Chloroethane              | 1.678          | 64   | 41158      | 51.984   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 135108     | 53.724   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 47899      | 49.231   | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 74336      | 49.200   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.447          | 142  | 63555      | 40.499   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 134999     | 289.499  | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 71402      | 47.901   | ug/l   | 88       |
| 13) Acrolein                 | 2.239          | 56   | 81990      | 308.085  | ug/l   | 96       |
| 14) Allyl chloride           | 2.660          | 41   | 129072     | 43.973   | ug/l   | 95       |
| 15) Acrylonitrile            | 3.068          | 53   | 241554     | 257.578  | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 208654     | 255.278  | ug/l   | 92       |
| 17) Carbon Disulfide         | 2.508          | 76   | 172660     | 41.968   | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 174913     | 50.869   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 282060     | 50.354   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 85969      | 47.293   | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 78233      | 46.959   | ug/l   | 88       |
| 22) Diisopropyl ether        | 3.763          | 45   | 264830     | 47.518   | ug/l   | 85       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1029404    | 240.792  | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 153425     | 49.101   | ug/l   | 97       |
| 25) 2-Butanone               | 4.556          | 43   | 342748     | 258.459  | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 111902     | 38.006   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 97107      | 49.075   | ug/l   | 90       |
| 28) Bromochloromethane       | 4.897          | 49   | 73527      | 48.654   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 217775     | 254.715  | ug/l   | 92       |
| 30) Chloroform               | 5.099          | 83   | 160862     | 50.319   | ug/l   | 96       |
| 31) Cyclohexane              | 5.470          | 56   | 123352     | 45.230   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 145337     | 49.616   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 112966     | 47.408   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.714          | 43   | 132069     | 48.969   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 126961     | 50.117   | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.385          | 83   | 134509     | 45.397   | ug/l   | 92       |
| 40) Benzene                  | 6.037          | 78   | 333505     | 48.106   | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 01 04:43:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/01/2023  
 Supervised By : Mahesh Dadoda 08/01/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 72095    | 49.980   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 127285   | 50.217   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 220309   | 47.454   | ug/l   | 96       |
| 44) Trichloroethene           | 7.129  | 130  | 88448    | 48.809   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 88837    | 47.995   | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 64910    | 50.107   | ug/l   | 96       |
| 47) Bromodichloromethane      | 7.824  | 83   | 131070   | 49.292   | ug/l   | 96       |
| 48) Methyl methacrylate       | 7.696  | 41   | 103303   | 47.847   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 52879    | 1212.369 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 657810   | 256.042  | ug/l   | 96       |
| 52) Toluene                   | 8.720  | 92   | 214393   | 49.354   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 139439   | 46.396   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 146717   | 46.263   | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 90328    | 49.467   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 149691   | 50.343   | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 154714   | 50.870   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 356034   | 243.011  | ug/l   | 97       |
| 59) 2-Hexanone                | 9.433  | 43   | 508008   | 266.429  | ug/l   | 94       |
| 60) Dibromochloromethane      | 9.518  | 129  | 103078   | 51.359   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 96230    | 50.848   | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 75635    | 47.863   | ug/l   | 94       |
| 65) Chlorobenzene             | 10.079 | 112  | 231716   | 49.618   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 91790    | 50.852   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 416192   | 48.784   | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 316821   | 99.531   | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 157938   | 49.708   | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 264601   | 50.475   | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 75096    | 51.395   | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 413171   | 46.409   | ug/l   | 98       |
| 74) N-amyl acetate            | 10.841 | 43   | 190478   | 45.881   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 146323   | 48.662   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 122021m  | 48.224   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 98038    | 48.355   | ug/l   | 95       |
| 78) n-propylbenzene           | 11.305 | 91   | 481908   | 46.805   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 288623   | 46.261   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 350639   | 47.079   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 46932    | 42.040   | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 333049   | 46.850   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 352321   | 48.153   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 351263   | 47.159   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 439674   | 48.185   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 365673   | 48.704   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 188170   | 50.110   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 186136   | 49.948   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 322044   | 47.915   | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 70170    | 46.100   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 185308   | 51.138   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 35131    | 50.278   | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 116542   | 52.202   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 44569    | 48.255   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 416167   | 53.493   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 114799   | 52.172   | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By : John Carlone 08/01/2023  
Supervised By : Mahesh Dadoda 08/01/2023

Quant Time: Aug 01 04:43:31 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration

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

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

