

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070623\  
 Data File : VX036422.D  
 Acq On : 06 Jul 2023 09:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jul 07 01:41:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/07/2023  
 Supervised By : Mahesh Dadoda 07/07/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 204299     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 340034     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 296798     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 144547     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 138755     | 47.381   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 94.760%  |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 114121     | 50.899   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.800% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 413031     | 49.322   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 98.640%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 149440     | 50.663   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 101.320% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 86386      | 44.663   | ug/l   | 98       |
| 3) Chloromethane             | 1.294          | 50   | 115042     | 34.287   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 180898     | 49.315   | ug/l   | 99       |
| 5) Bromomethane              | 1.617          | 94   | 144228     | 53.735   | ug/l   | 100      |
| 6) Chloroethane              | 1.691          | 64   | 119340     | 44.317   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 236432     | 42.396   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 90253      | 41.923   | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 113512     | 48.498   | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453          | 142  | 129257     | 45.577   | ug/l   | 92       |
| 11) Tert butyl alcohol       | 2.989          | 59   | 138380     | 259.592  | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 103205     | 44.450   | ug/l   | 89       |
| 13) Acrolein                 | 2.239          | 56   | 151066     | 206.348  | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 179758     | 47.640   | ug/l   | 97       |
| 15) Acrylonitrile            | 3.068          | 53   | 310331     | 229.675  | ug/l   | 99       |
| 16) Acetone                  | 2.392          | 43   | 294524     | 235.296  | ug/l   | 93       |
| 17) Carbon Disulfide         | 2.514          | 76   | 220656     | 38.696   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.703          | 43   | 246704     | 47.928   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 371756     | 49.545   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 116429     | 43.200   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 107097     | 43.226   | ug/l   | 96       |
| 22) Diisopropyl ether        | 3.757          | 45   | 370661     | 49.025   | ug/l   | 87       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1366018    | 248.962  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 213404     | 47.893   | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 438084     | 243.587  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 184980     | 58.534   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 131717     | 47.404   | ug/l   | 94       |
| 28) Bromochloromethane       | 4.891          | 49   | 103003     | 44.572   | ug/l   | 89       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 270692     | 236.409  | ug/l   | 94       |
| 30) Chloroform               | 5.092          | 83   | 219991     | 49.018   | ug/l   | 97       |
| 31) Cyclohexane              | 5.464          | 56   | 167799     | 44.713   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 191544     | 51.094   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 156656     | 46.873   | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.715          | 43   | 166559     | 48.897   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 165395     | 54.184   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 194966     | 48.705   | ug/l   | 94       |
| 40) Benzene                  | 6.037          | 78   | 454999     | 48.735   | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jul 07 01:41:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/07/2023  
 Supervised By : Mahesh Dadoda 07/07/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 93633    | 49.550  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 175197   | 49.337  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 285834   | 52.601  | ug/l   | 97       |
| 44) Trichloroethene           | 7.123  | 130  | 127852   | 49.235  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 126963   | 49.932  | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 87796    | 49.052  | ug/l   | 93       |
| 47) Bromodichloromethane      | 7.818  | 83   | 171267   | 52.913  | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.690  | 41   | 137811   | 50.864  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 7.702  | 88   | 56957    | 948.268 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 875601   | 250.103 | ug/l   | 98       |
| 52) Toluene                   | 8.714  | 92   | 282936   | 47.820  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 185434   | 56.715  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 203053   | 54.938  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 124542   | 50.648  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 193911   | 52.722  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 206488   | 48.998  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 525651   | 254.309 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 668667   | 261.547 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.519  | 129  | 129757   | 54.312  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 129118   | 49.479  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 124660   | 59.485  | ug/l   | 93       |
| 65) Chlorobenzene             | 10.079 | 112  | 318121   | 50.988  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 121491   | 57.609  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 567826   | 51.193  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 436482   | 101.286 | ug/l   | 96       |
| 69) o-Xylene                  | 10.640 | 106  | 216090   | 51.926  | ug/l   | 96       |
| 70) Styrene                   | 10.652 | 104  | 351919   | 51.648  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 91726    | 60.640  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 561680   | 51.562  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.841 | 43   | 246575   | 57.227  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 187541   | 50.840  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 160460m  | 52.043  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 135364   | 50.537  | ug/l   | 92       |
| 78) n-propylbenzene           | 11.305 | 91   | 655643   | 51.537  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 381227   | 50.374  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 468918   | 50.830  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 58123    | 61.451  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 450793   | 51.164  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 453896   | 51.339  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 466470   | 51.110  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 590546   | 52.726  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 493159   | 52.465  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 252397   | 51.252  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 251128   | 50.080  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 451892   | 54.019  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.536 | 117  | 82962    | 58.274  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 248887   | 51.326  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 41688    | 59.498  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 171843   | 57.534  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 68982    | 56.392  | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 555306   | 56.277  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 166527   | 57.158  | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/07/2023  
Supervised By :Mahesh Dadoda 07/07/2023

Quant Time: Jul 07 01:41:57 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 15:03:28 2023  
Response via : Initial Calibration

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

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

