

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082123\  
 Data File : VX037123.D  
 Acq On : 21 Aug 2023 11:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/22/2023  
 Supervised By :Mahesh Dadoda 08/22/2023

Quant Time: Aug 22 05:52:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.555          | 168  | 144477              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 256046              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 243380              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 118254              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 117833              | 56.572  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 113.140% |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 94117               | 55.502  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 111.000% |         |        |          |
| 50) Toluene-d8               | 8.646          | 98   | 326481              | 53.077  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 106.160% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 131551              | 54.421  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 108.840% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 80111               | 47.734  | ug/l   | 100      |
| 3) Chloromethane             | 1.294          | 50   | 72518               | 49.391  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.373          | 62   | 75799               | 47.428  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 35850               | 45.033  | ug/l   | 97       |
| 6) Chloroethane              | 1.678          | 64   | 42161               | 44.830  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.879          | 101  | 127931              | 48.867  | ug/l   | 100      |
| 8) Diethyl Ether             | 2.135          | 74   | 54013               | 53.328  | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 2.324          | 101  | 69989               | 45.827  | ug/l   | 97       |
| 10) Methyl Iodide            | 2.446          | 142  | 97118               | 52.321  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 2.964          | 59   | 117036              | 239.534 | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 2.318          | 96   | 69385               | 46.653  | ug/l   | 85       |
| 13) Acrolein                 | 2.233          | 56   | 104319              | 280.655 | ug/l   | 98       |
| 14) Allyl chloride           | 2.660          | 41   | 115995              | 50.389  | ug/l # | 94       |
| 15) Acrylonitrile            | 3.062          | 53   | 229097              | 262.700 | ug/l   | 99       |
| 16) Acetone                  | 2.379          | 43   | 199887              | 245.306 | ug/l   | 91       |
| 17) Carbon Disulfide         | 2.507          | 76   | 167981              | 44.404  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.702          | 43   | 159565              | 52.008  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 302663              | 53.658  | ug/l   | 96       |
| 20) Methylene Chloride       | 2.788          | 84   | 87259               | 47.885  | ug/l   | 86       |
| 21) trans-1,2-Dichloroethene | 3.092          | 96   | 80677               | 47.719  | ug/l   | 88       |
| 22) Diisopropyl ether        | 3.763          | 45   | 247888              | 52.477  | ug/l # | 81       |
| 23) Vinyl Acetate            | 3.720          | 43   | 986138              | 272.423 | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 151292              | 51.074  | ug/l   | 96       |
| 25) 2-Butanone               | 4.556          | 43   | 314953              | 256.703 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 4.470          | 77   | 127022              | 48.015  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 101918              | 51.135  | ug/l   | 89       |
| 28) Bromochloromethane       | 4.897          | 49   | 75445               | 57.013  | ug/l # | 78       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 201305              | 257.278 | ug/l # | 83       |
| 30) Chloroform               | 5.092          | 83   | 169458              | 50.960  | ug/l   | 98       |
| 31) Cyclohexane              | 5.470          | 56   | 103737              | 44.293  | ug/l   | 86       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 144069              | 48.347  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 108206              | 44.914  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.714          | 43   | 125037              | 50.808  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 5.677          | 117  | 121817              | 46.548  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.378          | 83   | 106800              | 42.194  | ug/l   | 90       |
| 40) Benzene                  | 6.037          | 78   | 343652              | 49.736  | ug/l   | 99       |

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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 : Semsettin Yesilyurt 08/22/2023  
 Supervised By : Mahesh Dadoda 08/22/2023

Quant Time: Aug 22 05:52:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.915  | 41   | 66329    | 51.846  | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 141272   | 52.137  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 206932   | 52.963  | ug/l # | 92       |
| 44) Trichloroethene           | 7.122  | 130  | 92422    | 47.173  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 88814    | 52.131  | ug/l   | 99       |
| 46) Dibromomethane            | 7.579  | 93   | 70277    | 52.362  | ug/l   | 93       |
| 47) Bromodichloromethane      | 7.823  | 83   | 138869   | 54.020  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.695  | 41   | 100567   | 52.779  | ug/l # | 86       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 50721    | 988.400 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 614295   | 258.922 | ug/l   | 92       |
| 52) Toluene                   | 8.720  | 92   | 224247   | 49.120  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 152740   | 55.802  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 158292   | 53.515  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 9.152  | 97   | 100365   | 53.990  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 157001   | 53.919  | ug/l   | 87       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 166912   | 53.263  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 376512   | 269.448 | ug/l   | 92       |
| 59) 2-Hexanone                | 9.433  | 43   | 462983   | 255.936 | ug/l   | 89       |
| 60) Dibromochloromethane      | 9.518  | 129  | 110467   | 55.813  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 109149   | 53.628  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.274  | 164  | 78729    | 44.342  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.079 | 112  | 249212   | 48.448  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.164 | 131  | 98459    | 51.861  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 422905   | 46.723  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.298 | 106  | 326786   | 93.490  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 165762   | 48.066  | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 284765   | 50.129  | ug/l   | 97       |
| 71) Bromoform                 | 10.798 | 173  | 79529    | 56.002  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 399025   | 46.424  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 171830   | 51.449  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 146355   | 50.560  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.237 | 75   | 125223m  | 49.723  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 106727   | 50.842  | ug/l   | 93       |
| 78) n-propylbenzene           | 11.304 | 91   | 444406   | 46.433  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.365 | 91   | 294615   | 48.169  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 341121   | 47.576  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 47921    | 53.147  | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 340565   | 48.237  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 313480   | 45.844  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.749 | 105  | 348539   | 48.099  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 362225   | 45.351  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 314824   | 45.788  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 189486   | 48.213  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 190982   | 47.034  | ug/l   | 100      |
| 89) n-Butylbenzene            | 12.329 | 91   | 256694   | 45.030  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 56579    | 49.302  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 188423   | 48.960  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75   | 34781    | 51.711  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 13.584 | 180  | 105058   | 46.655  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 36040    | 41.429  | ug/l   | 99       |
| 95) Naphthalene               | 13.773 | 128  | 412829   | 41.852  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.962 | 180  | 106085   | 47.418  | ug/l   | 99       |

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Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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Quant Time: Aug 22 05:52:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 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

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