

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080124\  
 Data File : VX042788.D  
 Acq On : 01 Aug 2024 10:41  
 Operator : JC/MD  
 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC020

Quant Time: Aug 01 16:16:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080124W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 01 16:14:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 08/01/2024  
 Supervised By :Semsettin Yesilyurt 08/03/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 99568      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 178063     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 156132     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 73047      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 31098      | 19.441   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 38.880%# |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 23102      | 18.781   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 37.560%# |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 85390      | 19.125   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 38.240%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 29989      | 18.379   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 36.760%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 27765      | 17.597   | ug/l   | 99       |
| 3) Chloromethane             | 1.301          | 50   | 23577      | 19.465   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 22874      | 18.522   | ug/l   | 98       |
| 5) Bromomethane              | 1.599          | 94   | 7361       | 17.299   | ug/l   | 92       |
| 6) Chloroethane              | 1.666          | 64   | 9616       | 21.567   | ug/l # | 81       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 34546      | 20.843   | ug/l   | 97       |
| 8) Diethyl Ether             | 2.136          | 74   | 12438      | 19.695   | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 24188      | 19.347   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.447          | 142  | 23869      | 19.947   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 2.989          | 59   | 31373      | 102.061  | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 24226      | 19.991   | ug/l   | 86       |
| 13) Acrolein                 | 2.239          | 56   | 31232      | 99.329   | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 33773      | 21.676   | ug/l # | 95       |
| 15) Acrylonitrile            | 3.075          | 53   | 70140      | 106.750  | ug/l   | 97       |
| 16) Acetone                  | 2.392          | 43   | 59746      | 102.858  | ug/l   | 91       |
| 17) Carbon Disulfide         | 2.508          | 76   | 49867      | 18.241   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.709          | 43   | 29262      | 20.073   | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 81518      | 20.290   | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 26976      | 19.700   | ug/l # | 89       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 24873      | 19.892   | ug/l   | 87       |
| 22) Diisopropyl ether        | 3.770          | 45   | 71945      | 21.541   | ug/l # | 84       |
| 23) Vinyl Acetate            | 3.727          | 43   | 316813     | 109.113  | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 45229      | 20.847   | ug/l   | 94       |
| 25) 2-Butanone               | 4.568          | 43   | 93343      | 109.374  | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 36962      | 19.905   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 29311      | 20.053   | ug/l   | 89       |
| 28) Bromochloromethane       | 4.904          | 49   | 15591      | 20.048   | ug/l   | 83       |
| 29) Tetrahydrofuran          | 5.019          | 42   | 58381      | 109.824  | ug/l # | 87       |
| 30) Chloroform               | 5.093          | 83   | 49721      | 20.611   | ug/l   | 89       |
| 31) Cyclohexane              | 5.464          | 56   | 36161      | 20.517   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 42470      | 19.821   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 31419      | 19.696   | ug/l   | 96       |
| 37) Ethyl Acetate            | 4.727          | 43   | 35295      | 21.675   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 35345      | 19.226   | ug/l   | 95       |
| 39) Methylcyclohexane        | 7.379          | 83   | 39752      | 19.886   | ug/l   | 94       |
| 40) Benzene                  | 6.038          | 78   | 103453     | 20.668   | ug/l   | 95       |

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 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 08/01/2024  
 Supervised By :Semsettin Yesilyurt 08/03/2024

Quant Time: Aug 01 16:16:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080124W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 01 16:14:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 18847    | 21.887  | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 37922    | 20.976  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 51951    | 20.397  | ug/l # | 93       |
| 44) Trichloroethene           | 7.129  | 130  | 25517    | 19.473  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 23392    | 20.840  | ug/l   | 95       |
| 46) Dibromomethane            | 7.586  | 93   | 19104    | 19.985  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 34961    | 20.056  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 26359    | 21.050  | ug/l # | 86       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 10210    | 345.806 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 180416   | 106.952 | ug/l   | 95       |
| 52) Toluene                   | 8.720  | 92   | 64362    | 19.819  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 32921    | 19.063  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 37282    | 20.323  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 25100    | 19.110  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 37580    | 19.755  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 43262    | 20.871  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 89976    | 102.695 | ug/l   | 93       |
| 59) 2-Hexanone                | 9.433  | 43   | 134617   | 102.906 | ug/l   | 93       |
| 60) Dibromochloromethane      | 9.525  | 129  | 25763    | 19.365  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 26136    | 20.054  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 22905    | 21.655  | ug/l   | 91       |
| 65) Chlorobenzene             | 10.080 | 112  | 70544    | 20.462  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 22865    | 19.853  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 117151   | 20.211  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 90661    | 40.941  | ug/l   | 100      |
| 69) o-Xylene                  | 10.640 | 106  | 44874    | 20.496  | ug/l   | 100      |
| 70) Styrene                   | 10.653 | 104  | 75193    | 20.322  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 15816    | 18.380  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 114258   | 20.444  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.842 | 43   | 44962    | 20.929  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 38930    | 20.184  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 31817m   | 18.678  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 27633    | 19.965  | ug/l   | 89       |
| 78) n-propylbenzene           | 11.305 | 91   | 126339   | 20.274  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 81726    | 20.150  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 98061    | 20.477  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 10654    | 18.892  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 91498    | 19.880  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 97906    | 20.515  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 99500    | 20.810  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 119181   | 20.398  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 98092    | 19.913  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 50355    | 19.505  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 49391    | 19.018  | ug/l   | 97       |
| 89) n-Butylbenzene            | 12.335 | 91   | 78428    | 19.457  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 16304    | 18.683  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 51895    | 20.324  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 8494     | 19.792  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 27687    | 18.887  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 11757    | 18.468  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 107252   | 19.173  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 28947    | 19.211  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/01/2024  
Supervised By :Semsettin Yesilyurt 08/03/2024

Quant Time: Aug 01 16:16:23 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080124W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 01 16:14:44 2024  
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

