

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110921\  
 Data File : VN069418.D  
 Acq On : 9 Nov 2021 12:24  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Nov 09 13:47:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 13:40:38 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/10/2021  
 Supervised By : Semsettin Yesilyurt 11/17/2021

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 1150404              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1934621              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.746         | 117  | 1864189              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 860068               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 1615505              | 125.240 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 250.480%# |         |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 1166830              | 112.249 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 224.500%# |         |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 4633053              | 113.268 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 226.540%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.733         | 95   | 1792494              | 124.864 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 249.720%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.070          | 85   | 1275753              | 123.845 | ug/l   | 98       |
| 3) Chloromethane             | 2.301          | 50   | 1350012              | 122.729 | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.443          | 62   | 1406251              | 110.014 | ug/l   | 99       |
| 5) Bromomethane              | 2.821          | 94   | 932081               | 90.590  | ug/l   | 99       |
| 6) Chloroethane              | 2.995          | 64   | 879510               | 100.454 | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.363          | 101  | 2138678              | 93.926  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.819          | 74   | 688074               | 119.573 | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.194          | 101  | 1007075              | 112.173 | ug/l   | 94       |
| 10) Methyl Iodide            | 4.411          | 142  | 1329516              | 117.705 | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.387          | 59   | 1528275              | 664.234 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.170          | 96   | 927682               | 112.035 | ug/l   | 89       |
| 13) Acrolein                 | 4.036          | 56   | 214791               | 505.643 | ug/l   | 99       |
| 14) Allyl chloride           | 4.832          | 41   | 2126007              | 138.824 | ug/l   | 96       |
| 15) Acrylonitrile            | 5.554          | 53   | 4022535              | 686.749 | ug/l   | 98       |
| 16) Acetone                  | 4.288          | 43   | 4498065              | 685.781 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.521          | 76   | 2345528              | 124.787 | ug/l   | 100      |
| 18) Methyl Acetate           | 4.854          | 43   | 2889520              | 132.069 | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.615          | 73   | 4023793              | 123.000 | ug/l   | 97       |
| 20) Methylene Chloride       | 5.090          | 84   | 1189018              | 107.399 | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.591          | 96   | 1049508              | 115.019 | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.498          | 45   | 4570687              | 139.737 | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.433          | 43   | 18471405             | 732.402 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.383          | 63   | 2245352              | 124.779 | ug/l   | 98       |
| 25) 2-Butanone               | 7.335          | 43   | 6457237              | 742.687 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 1928896              | 127.835 | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 1328079              | 117.188 | ug/l   | 89       |
| 28) Bromochloromethane       | 7.656          | 49   | 1213313              | 127.857 | ug/l   | 82       |
| 29) Tetrahydrofuran          | 7.683          | 42   | 4024465              | 746.348 | ug/l   | 90       |
| 30) Chloroform               | 7.817          | 83   | 2361801              | 121.334 | ug/l   | 99       |
| 31) Cyclohexane              | 8.094          | 56   | 2148182              | 117.266 | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 2040862              | 122.060 | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 1697346              | 115.825 | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.415          | 43   | 2392088              | 135.061 | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 1704463              | 115.350 | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.459          | 83   | 2156508              | 116.986 | ug/l   | 93       |
| 40) Benzene                  | 8.458          | 78   | 5130142              | 113.752 | ug/l   | 99       |

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 Sample : VSTDICC100  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/10/2021  
 Supervised By : Semsettin Yesilyurt 11/17/2021

Quant Time: Nov 09 13:47:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 13:40:38 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 1185143  | 138.947  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 2001323  | 119.399  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 3811988  | 138.237  | ug/l   | 94       |
| 44) Trichloroethene           | 9.215  | 130  | 1264673  | 107.380  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 1389215  | 119.186  | ug/l   | 100      |
| 46) Dibromomethane            | 9.577  | 93   | 925800   | 113.900  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.762  | 83   | 1850503  | 124.730  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 1751351  | 140.558  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.571  | 88   | 641141   | 2368.706 | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 12672687 | 707.937  | ug/l   | 97       |
| 52) Toluene                   | 10.505 | 92   | 3314579  | 114.775  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 2083774  | 135.719  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 2204792  | 130.957  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 1347628  | 115.357  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 2383149  | 134.765  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 2295934  | 117.317  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 3194640  | 820.291  | ug/l   | 93       |
| 59) 2-Hexanone                | 11.087 | 43   | 9708741  | 730.613  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.240 | 129  | 1404937  | 127.624  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 1414990  | 119.144  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.977 | 164  | 1128268  | 98.344   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.771 | 112  | 3598239  | 108.331  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 1321265  | 113.126  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.846 | 91   | 6721317  | 115.345  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.956 | 106  | 5040543  | 249.869  | ug/l   | 96       |
| 69) o-Xylene                  | 12.283 | 106  | 2541857  | 115.707  | ug/l   | 95       |
| 70) Styrene                   | 12.294 | 104  | 4278057  | 123.443  | ug/l   | 97       |
| 71) Bromoform                 | 12.460 | 173  | 1077520  | 128.058  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.581 | 105  | 6749354  | 109.420  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.387 | 43   | 3204054  | 145.756  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 2191196  | 110.040  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 1992423m | 107.499  | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 1565970  | 102.763  | ug/l   | 82       |
| 78) n-propylbenzene           | 12.921 | 91   | 7900535  | 117.843  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 4688049  | 112.870  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 5609488  | 113.941  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 697453   | 148.320  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 4657657  | 118.375  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.323 | 119  | 4925148  | 109.089  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 5477632  | 114.969  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 7066505  | 117.259  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 5721361  | 117.042  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 2783053  | 106.837  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 2718870  | 105.374  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.943 | 91   | 5023573  | 131.327  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.211 | 117  | 994668   | 126.356  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 2620839  | 102.531  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.605 | 75   | 432831   | 136.161  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 1375290  | 118.038  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 706481   | 97.541   | ug/l   | 98       |
| 95) Naphthalene               | 15.507 | 128  | 3882519  | 123.071  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 1304335  | 113.748  | ug/l   | 98       |

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ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
VSTDICC100

Manual Integrations  
APPROVED

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Quant Time: Nov 09 13:47:22 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 09 13:40:38 2021  
Response via : Initial Calibration

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

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

