

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122921\  
 Data File : VN070340.D  
 Acq On : 29 Dec 2021 10:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 30 01:48:06 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 18:47:12 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/30/2021  
 Supervised By : Mahesh Dadoda 12/30/2021

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 1101279    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.965          | 114  | 1763002    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1680553    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 721901     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 723077     | 45.665   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 91.340%  |        |          |
| 35) Dibromofluoromethane     | 8.019          | 113  | 527138     | 49.417   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 98.840%  |        |          |
| 50) Toluene-d8               | 10.441         | 98   | 2108648    | 48.390   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 96.780%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 794881     | 50.505   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 101.000% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 660348     | 52.874   | ug/l   | 100      |
| 3) Chloromethane             | 2.301          | 50   | 856553     | 50.418   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.446          | 62   | 780406     | 50.454   | ug/l   | 100      |
| 5) Bromomethane              | 2.837          | 94   | 406827     | 50.958   | ug/l   | 100      |
| 6) Chloroethane              | 3.011          | 64   | 458868     | 49.261   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.371          | 101  | 927161     | 49.801   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.821          | 74   | 416379     | 50.734   | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.202          | 101  | 605863     | 53.206   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.414          | 142  | 822866     | 53.397   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.380          | 59   | 704136     | 267.073  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.178          | 96   | 577322     | 51.473   | ug/l   | 91       |
| 13) Acrolein                 | 4.036          | 56   | 547381     | 255.880  | ug/l   | 100      |
| 14) Allyl chloride           | 4.838          | 41   | 1349497    | 53.068   | ug/l   | 88       |
| 15) Acrylonitrile            | 5.551          | 53   | 2221660    | 270.036  | ug/l   | 99       |
| 16) Acetone                  | 4.285          | 43   | 2815767    | 273.936  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.524          | 76   | 1719098    | 56.151   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.851          | 43   | 1540870    | 51.823   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.616          | 73   | 2165080    | 51.979   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.090          | 84   | 705976     | 49.641   | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.594          | 96   | 615931     | 51.866   | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.495          | 45   | 2631469    | 53.129   | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.431          | 43   | 10532069   | 274.066  | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 1323440    | 51.532   | ug/l   | 97       |
| 25) 2-Butanone               | 7.335          | 43   | 3556592    | 274.801  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 1054076    | 52.027   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 743391     | 52.462   | ug/l   | 86       |
| 28) Bromochloromethane       | 7.657          | 49   | 542413     | 43.186   | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.683          | 42   | 2116001    | 274.026  | ug/l   | 87       |
| 30) Chloroform               | 7.818          | 83   | 1274823    | 51.454   | ug/l   | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 1280897    | 51.263   | ug/l   | 87       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 1086432    | 52.006   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 968130     | 54.864   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.413          | 43   | 1243895    | 54.383   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 938356     | 55.689   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 1201694    | 56.250   | ug/l   | 88       |
| 40) Benzene                  | 8.459          | 78   | 2902842    | 53.658   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122921\  
 Data File : VN070340.D  
 Acq On : 29 Dec 2021 10:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/30/2021  
 Supervised By : Mahesh Dadoda 12/30/2021

Quant Time: Dec 30 01:48:06 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 18:47:12 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.635  | 41   | 665405   | 58.162   | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 1071492  | 52.694   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 1984988  | 55.043   | ug/l # | 94       |
| 44) Trichloroethene           | 9.215  | 130  | 687566   | 53.489   | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 800285   | 54.942   | ug/l   | 99       |
| 46) Dibromomethane            | 9.577  | 93   | 493102   | 54.442   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.762  | 83   | 1040524  | 57.856   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.558  | 41   | 1008666  | 58.639   | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 301119   | 1195.883 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.331 | 43   | 6508329  | 287.216  | ug/l   | 97       |
| 52) Toluene                   | 10.505 | 92   | 1808548  | 55.230   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 1133560  | 58.222   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 1233885  | 58.585   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97   | 708196   | 54.661   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.760 | 69   | 1221677  | 57.067   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 1253676  | 54.707   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 1548254  | 280.682  | ug/l   | 90       |
| 59) 2-Hexanone                | 11.084 | 43   | 4963872  | 300.389  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.237 | 129  | 763135   | 60.369   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 726890   | 55.254   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.977 | 164  | 614605   | 50.503   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.771 | 112  | 1897507  | 53.214   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.841 | 131  | 698470   | 54.869   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.843 | 91   | 3574525  | 54.712   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.953 | 106  | 2658932  | 111.806  | ug/l   | 94       |
| 69) o-Xylene                  | 12.280 | 106  | 1304502  | 55.148   | ug/l   | 92       |
| 70) Styrene                   | 12.294 | 104  | 2187528  | 58.430   | ug/l   | 97       |
| 71) Bromoform                 | 12.457 | 173  | 601783   | 63.698   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.578 | 105  | 3444874  | 51.386   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.388 | 43   | 1533134  | 54.390   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.828 | 83   | 1112452  | 50.679   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 958866m  | 45.147   | ug/l   |          |
| 77) Bromobenzene              | 12.860 | 156  | 791818   | 51.446   | ug/l   | 78       |
| 78) n-propylbenzene           | 12.919 | 91   | 4071434  | 54.813   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 2433038  | 51.051   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 2834305  | 52.759   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 364343   | 61.663   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 2396191  | 53.675   | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 2434102  | 51.456   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.367 | 105  | 2784268  | 53.823   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 3496046  | 54.436   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 2800304  | 55.507   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 1359187  | 52.753   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 1326296  | 52.185   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.943 | 91   | 2409050  | 57.249   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.209 | 117  | 542181   | 61.862   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 1289231  | 51.042   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 213861   | 55.069   | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 668086   | 56.135   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 382504   | 55.301   | ug/l   | 99       |
| 95) Naphthalene               | 15.507 | 128  | 1758619  | 53.342   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 631992   | 55.425   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122921\  
Data File : VN070340.D  
Acq On : 29 Dec 2021 10:36  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/30/2021  
Supervised By :Mahesh Dadoda 12/30/2021

Quant Time: Dec 30 01:48:06 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 27 18:47:12 2021  
Response via : Initial Calibration

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

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

## Manual Integrations

Quant Time: Dec 30 01:48:06 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 27 18:47:12 2021  
Response via : Initial Calibration

