

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050422\  
 Data File : VN072322.D  
 Acq On : 04 May 2022 12:49  
 Operator : JC\MD  
 Sample : VN0504WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0504WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/05/2022  
 Supervised By : Mahesh Dadoda 05/05/2022

Quant Time: May 04 14:21:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 193963              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 330391              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 301774              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.669         | 152  | 123421              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 161272              | 54.159  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 108.320% |         |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 114649              | 54.216  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 108.440% |         |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 437211              | 52.616  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 105.240% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 144503              | 52.393  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 104.780% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 41350               | 18.915  | ug/l   | 98       |
| 3) Chloromethane             | 2.299          | 50   | 44987               | 17.922  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.440          | 62   | 37923               | 17.368  | ug/l # | 85       |
| 5) Bromomethane              | 2.840          | 94   | 23881               | 21.574  | ug/l   | 88       |
| 6) Chloroethane              | 3.004          | 64   | 24762               | 19.037  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 69476               | 18.213  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.828          | 74   | 26576               | 19.240  | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 39999               | 19.962  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.422          | 142  | 46294               | 19.033  | ug/l # | 89       |
| 11) Tert butyl alcohol       | 5.369          | 59   | 50847               | 103.907 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 4.187          | 96   | 33181               | 17.911  | ug/l   | 92       |
| 13) Acrolein                 | 4.046          | 56   | 41097               | 83.452  | ug/l   | 96       |
| 14) Allyl chloride           | 4.834          | 41   | 74355               | 19.331  | ug/l # | 93       |
| 15) Acrylonitrile            | 5.551          | 53   | 152152              | 103.036 | ug/l   | 99       |
| 16) Acetone                  | 4.287          | 43   | 130415              | 101.582 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.534          | 76   | 72845               | 16.955  | ug/l # | 94       |
| 18) Methyl Acetate           | 4.851          | 43   | 75515               | 21.017  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 152873              | 21.052  | ug/l   | 97       |
| 20) Methylene Chloride       | 5.093          | 84   | 45786               | 18.605  | ug/l # | 82       |
| 21) trans-1,2-Dichloroethene | 5.598          | 96   | 35868               | 17.559  | ug/l   | 83       |
| 22) Diisopropyl ether        | 6.492          | 45   | 167340              | 21.122  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.428          | 43   | 712992              | 107.154 | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.381          | 63   | 86254               | 19.463  | ug/l   | 97       |
| 25) 2-Butanone               | 7.328          | 43   | 208239              | 101.848 | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 7.328          | 77   | 69412               | 20.051  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.316          | 96   | 48719               | 19.563  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.657          | 49   | 45632               | 22.996  | ug/l # | 81       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 142135              | 105.928 | ug/l # | 86       |
| 30) Chloroform               | 7.810          | 83   | 91826               | 20.637  | ug/l   | 98       |
| 31) Cyclohexane              | 8.092          | 56   | 68938               | 17.327  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 73314               | 19.362  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 58381               | 18.967  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.410          | 43   | 86267               | 21.104  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 8.198          | 117  | 64686               | 19.621  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.457          | 83   | 63752               | 18.518  | ug/l   | 89       |
| 40) Benzene                  | 8.457          | 78   | 184832              | 19.359  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050422\  
 Data File : VN072322.D  
 Acq On : 04 May 2022 12:49  
 Operator : JC\MD  
 Sample : VN0504WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0504WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/05/2022  
 Supervised By : Mahesh Dadoda 05/05/2022

Quant Time: May 04 14:21:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.639  | 41   | 44896    | 21.711  | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 77189    | 21.117  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 127919   | 20.412  | ug/l   | 95       |
| 44) Trichloroethene           | 9.210  | 130  | 41976    | 18.900  | ug/l   | 82       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 51416    | 19.929  | ug/l   | 92       |
| 46) Dibromomethane            | 9.575  | 93   | 33552    | 20.760  | ug/l   | 89       |
| 47) Bromodichloromethane      | 9.757  | 83   | 71470    | 21.076  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.557  | 41   | 57939    | 21.458  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 19936    | 420.309 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 431096   | 111.773 | ug/l   | 93       |
| 52) Toluene                   | 10.504 | 92   | 113267   | 19.845  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 68827    | 20.191  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 78569    | 21.312  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 50087    | 20.929  | ug/l   | 91       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 76763    | 19.814  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 87629    | 20.866  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 98235    | 98.672  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.080 | 43   | 305834   | 112.547 | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.233 | 129  | 52601    | 21.494  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.345 | 107  | 49440    | 21.006  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.975 | 164  | 37683    | 20.745  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.763 | 112  | 121086   | 19.859  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.833 | 131  | 47840    | 20.822  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.839 | 91   | 210178   | 19.766  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.951 | 106  | 165155   | 41.826  | ug/l   | 97       |
| 69) o-Xylene                  | 12.274 | 106  | 79224    | 20.696  | ug/l   | 94       |
| 70) Styrene                   | 12.292 | 104  | 129099   | 21.411  | ug/l   | 97       |
| 71) Bromoform                 | 12.457 | 173  | 35362    | 20.694  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 203441   | 18.663  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.386 | 43   | 82990    | 20.321  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 77652    | 20.507  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 69167m   | 24.868  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 48394    | 18.773  | ug/l   | 87       |
| 78) n-propylbenzene           | 12.916 | 91   | 230464   | 19.192  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 147036   | 18.641  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 173603   | 19.123  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 19766    | 18.518  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 136926   | 18.649  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 150863   | 18.927  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 168858   | 19.225  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 204004   | 19.632  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 157742   | 19.471  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 82901    | 19.870  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 82789    | 20.405  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 118490   | 19.095  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.204 | 117  | 31506    | 17.915  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 83645    | 20.341  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 13708    | 18.183  | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 31315    | 18.095  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.363 | 225  | 20158    | 18.294  | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 96861    | 18.149  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180  | 32567    | 18.944  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050422\  
Data File : VN072322.D  
Acq On : 04 May 2022 12:49  
Operator : JC\MD  
Sample : VN0504WBSD01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504WBSD01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/05/2022  
Supervised By :Mahesh Dadoda 05/05/2022

Quant Time: May 04 14:21:01 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 26 18:50:11 2022  
Response via : Initial Calibration

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

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

