

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051923\  
 Data File : VN077752.D  
 Acq On : 19 May 2023 09:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: May 19 23:52:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/22/2023  
 Supervised By : Mahesh Dadoda 05/22/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 418361     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 722657     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 641708     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 282090     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 306141     | 48.906   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 97.820%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 254508     | 54.009   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 108.020% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 956005     | 52.707   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 105.420% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 327406     | 51.109   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 102.220% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 215509     | 45.263   | ug/l   | 96       |
| 3) Chloromethane             | 2.371          | 50   | 209968     | 41.281   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.524          | 62   | 249307     | 41.531   | ug/l   | 98       |
| 5) Bromomethane              | 2.965          | 94   | 182716     | 41.155   | ug/l   | 99       |
| 6) Chloroethane              | 3.130          | 64   | 174342     | 40.300   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 385815     | 46.118   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.971          | 74   | 141052     | 46.185   | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 222118     | 47.977   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.606          | 142  | 295156     | 53.457   | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 187253     | 216.752  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 202950     | 46.123   | ug/l   | 92       |
| 13) Acrolein                 | 4.195          | 56   | 119135     | 217.988  | ug/l   | 99       |
| 14) Allyl chloride           | 5.036          | 41   | 277808     | 42.977   | ug/l   | 93       |
| 15) Acrylonitrile            | 5.724          | 53   | 508557     | 220.343  | ug/l   | 99       |
| 16) Acetone                  | 4.436          | 43   | 440953     | 223.902  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.724          | 76   | 477395     | 40.266   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.036          | 43   | 360051     | 43.579   | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 745525     | 46.809   | ug/l   | 94       |
| 20) Methylene Chloride       | 5.289          | 84   | 248546     | 48.425   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 224260     | 45.371   | ug/l # | 79       |
| 22) Diisopropyl ether        | 6.683          | 45   | 701124     | 46.274   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.612          | 43   | 2052352    | 218.625  | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 431549     | 46.491   | ug/l   | 98       |
| 25) 2-Butanone               | 7.489          | 43   | 665559     | 216.039  | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 382456     | 48.497   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 279995     | 47.244   | ug/l   | 92       |
| 28) Bromochloromethane       | 7.818          | 49   | 181837     | 45.295   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 420826     | 208.614  | ug/l # | 84       |
| 30) Chloroform               | 7.971          | 83   | 474035     | 46.424   | ug/l   | 92       |
| 31) Cyclohexane              | 8.265          | 56   | 360710     | 42.397   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 417256     | 48.063   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 337222     | 48.925   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.565          | 43   | 257042     | 41.840   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 372017     | 53.450   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.606          | 83   | 418025     | 49.539   | ug/l   | 94       |
| 40) Benzene                  | 8.612          | 78   | 1011549    | 49.733   | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/22/2023  
 Supervised By : Mahesh Dadoda 05/22/2023

Quant Time: May 19 23:52:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 146540   | 44.790   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 357795   | 48.426   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 467875   | 46.626   | ug/l   | 96       |
| 44) Trichloroethene           | 9.359  | 130  | 269965   | 52.418   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 264814   | 51.043   | ug/l   | 95       |
| 46) Dibromomethane            | 9.712  | 93   | 185621   | 50.000   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.894  | 83   | 373151   | 52.501   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.688  | 41   | 217642   | 45.746   | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 91974    | 1023.544 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1373379  | 230.251  | ug/l   | 94       |
| 52) Toluene                   | 10.635 | 92   | 651832   | 51.477   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 394243   | 52.380   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 426798   | 51.457   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 257442   | 51.204   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 375330   | 49.373   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 438560   | 50.882   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 890913   | 238.220  | ug/l   | 93       |
| 59) 2-Hexanone                | 11.200 | 43   | 983209   | 222.857  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.365 | 129  | 284772   | 54.865   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.477 | 107  | 261600   | 52.155   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.112 | 164  | 256005   | 57.047   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.900 | 112  | 704767   | 50.661   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 270208   | 56.135   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.971 | 91   | 1259725  | 50.530   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.077 | 106  | 974658   | 103.180  | ug/l   | 100      |
| 69) o-Xylene                  | 12.406 | 106  | 482574   | 51.946   | ug/l   | 99       |
| 70) Styrene                   | 12.418 | 104  | 772956   | 52.377   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 184901   | 57.743   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1252715  | 51.518   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 372876   | 41.486   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 341507   | 45.652   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 297194m  | 42.068   | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 279012   | 50.280   | ug/l   | 97       |
| 78) n-propylbenzene           | 13.041 | 91   | 1447725  | 50.501   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 856505   | 50.070   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 1059589  | 51.847   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 108169   | 48.944   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 821034   | 48.239   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 930235   | 52.140   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1053031  | 52.391   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 1315900  | 51.898   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 1089029  | 53.874   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 518564   | 50.531   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 506099   | 49.698   | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.065 | 91   | 939118   | 50.510   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.341 | 117  | 184922   | 55.687   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 508894   | 53.081   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 63471    | 43.826   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 255454   | 45.597   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.512 | 225  | 121245   | 52.123   | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 758010   | 39.308   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 251264   | 45.806   | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/22/2023  
Supervised By :Mahesh Dadoda 05/22/2023

Quant Time: May 19 23:52:36 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
Response via : Initial Calibration

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

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

