

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050923\  
 Data File : VN077632.D  
 Acq On : 09 May 2023 15:08  
 Operator : JC\MD  
 Sample : VN0509WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0509WBS01

Quant Time: May 10 04:44:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N050923W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 09 13:52:31 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/10/2023  
 Supervised By : Mahesh Dadoda 05/10/2023

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 646389              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.101          | 114  | 1168304             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 1090919             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 442304              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 432617              | 52.773 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 105.540% |        |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 378348              | 51.925 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.860% |        |        |          |
| 50) Toluene-d8               | 10.566         | 98   | 1551868             | 56.254 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 112.500% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.848         | 95   | 520828              | 55.820 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 111.640% |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 150416              | 20.818 | ug/l   | 96       |
| 3) Chloromethane             | 2.372          | 50   | 118769              | 18.236 | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.525          | 62   | 160228              | 18.589 | ug/l   | 99       |
| 5) Bromomethane              | 2.966          | 94   | 136735              | 19.981 | ug/l   | 99       |
| 6) Chloroethane              | 3.137          | 64   | 106234              | 17.774 | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.513          | 101  | 287039              | 21.245 | ug/l   | 100      |
| 8) Diethyl Ether             | 3.972          | 74   | 77291               | 19.459 | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 135854              | 20.123 | ug/l   | 99       |
| 10) Methyl Iodide            | 4.595          | 142  | 185380              | 18.686 | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.531          | 59   | 93788               | 97.255 | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 4.354          | 96   | 128769              | 20.073 | ug/l   | 97       |
| 13) Acrolein                 | 4.190          | 56   | 92167               | 98.612 | ug/l   | 95       |
| 14) Allyl chloride           | 5.031          | 41   | 121096              | 19.006 | ug/l # | 88       |
| 15) Acrylonitrile            | 5.731          | 53   | 235260              | 98.629 | ug/l   | 98       |
| 16) Acetone                  | 4.437          | 43   | 183119              | 94.065 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.719          | 76   | 299532              | 19.417 | ug/l   | 96       |
| 18) Methyl Acetate           | 5.031          | 43   | 146948              | 19.043 | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.801          | 73   | 402406              | 19.063 | ug/l   | 99       |
| 20) Methylene Chloride       | 5.284          | 84   | 149838              | 18.573 | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.801          | 96   | 135984              | 18.741 | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.684          | 45   | 301326              | 19.158 | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.613          | 43   | 765878              | 87.861 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.578          | 63   | 227410              | 19.072 | ug/l   | 98       |
| 25) 2-Butanone               | 7.489          | 43   | 266869              | 93.792 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.495          | 77   | 214702              | 19.869 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 162942              | 18.460 | ug/l   | 96       |
| 28) Bromochloromethane       | 7.819          | 49   | 92196               | 21.191 | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.848          | 42   | 163464              | 93.525 | ug/l   | 95       |
| 30) Chloroform               | 7.972          | 83   | 267197              | 18.908 | ug/l   | 94       |
| 31) Cyclohexane              | 8.266          | 56   | 194869              | 18.601 | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 8.178          | 97   | 245926              | 18.901 | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 189797              | 18.875 | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.572          | 43   | 110014              | 19.134 | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 212394              | 19.334 | ug/l   | 93       |
| 39) Methylcyclohexane        | 9.601          | 83   | 245307              | 19.652 | ug/l   | 98       |
| 40) Benzene                  | 8.613          | 78   | 578642              | 19.022 | ug/l   | 99       |

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 Sample : VN0509WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0509WBS01

Quant Time: May 10 04:44:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N050923W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 09 13:52:31 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/10/2023  
 Supervised By : Mahesh Dadoda 05/10/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.778  | 41   | 56282    | 17.916  | ug/l   | 87       |
| 42) 1,2-Dichloroethane        | 8.672  | 62   | 195529   | 19.168  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 195025   | 19.346  | ug/l   | 93       |
| 44) Trichloroethene           | 9.360  | 130  | 151769   | 18.993  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 130219   | 18.617  | ug/l   | 100      |
| 46) Dibromomethane            | 9.707  | 93   | 103645   | 19.049  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.889  | 83   | 203445   | 19.144  | ug/l   | 94       |
| 48) Methyl methacrylate       | 9.683  | 41   | 89411    | 18.897  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.701  | 88   | 54793    | 389.395 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 584400   | 98.538  | ug/l   | 98       |
| 52) Toluene                   | 10.630 | 92   | 405228   | 20.028  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 204944   | 19.793  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 229999   | 19.525  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 151496   | 19.311  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 194191   | 19.628  | ug/l # | 91       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 247549   | 19.630  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 472676   | 115.878 | ug/l   | 95       |
| 59) 2-Hexanone                | 11.201 | 43   | 420180   | 100.243 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.360 | 129  | 153340   | 19.689  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 152709   | 19.799  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.107 | 164  | 120714   | 18.593  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.895 | 112  | 431889   | 19.260  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 155881   | 19.295  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.966 | 91   | 779758   | 19.807  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 622288   | 39.923  | ug/l   | 100      |
| 69) o-Xylene                  | 12.401 | 106  | 304322   | 19.478  | ug/l   | 98       |
| 70) Styrene                   | 12.413 | 104  | 484667   | 20.255  | ug/l   | 99       |
| 71) Bromoform                 | 12.577 | 173  | 89657    | 18.287  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.701 | 105  | 785366   | 19.904  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.495 | 43   | 165580   | 19.015  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 197024   | 18.164  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 171276m  | 18.765  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 165444   | 18.933  | ug/l   | 95       |
| 78) n-propylbenzene           | 13.036 | 91   | 854453   | 20.174  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 518296   | 19.213  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 627260   | 20.780  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 52645    | 18.365  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 490513   | 19.389  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 560290   | 19.753  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 599570   | 21.136  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 785257   | 20.566  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 610609   | 20.450  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 303408   | 19.976  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 293853   | 19.462  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 473789   | 20.024  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.336 | 117  | 107437   | 18.763  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 287090   | 19.012  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 34624    | 18.037  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 83410    | 16.326  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 61004    | 18.908  | ug/l   | 97       |
| 95) Naphthalene               | 15.642 | 128  | 274365   | 15.865  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 75374    | 15.917  | ug/l   | 98       |

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Sample : VN0509WBS01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0509WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/10/2023  
Supervised By :Mahesh Dadoda 05/10/2023

Quant Time: May 10 04:44:40 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N050923W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 09 13:52:31 2023  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

