

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042723\  
 Data File : VN077488.D  
 Acq On : 27 Apr 2023 11:11  
 Operator : JC\MD  
 Sample : VN0427WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0427WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/28/2023  
 Supervised By : Mahesh Dadoda 04/28/2023

Quant Time: Apr 28 03:22:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 619734              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 1141954             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 1024128             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 420532              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 439809              | 54.386 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 108.780% |        |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 371866              | 54.179 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 108.360% |        |        |          |
| 50) Toluene-d8               | 10.572         | 98   | 1429019             | 54.324 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 108.640% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.848         | 95   | 477117              | 55.437 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 110.880% |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 141070              | 18.031 | ug/l   | 99       |
| 3) Chloromethane             | 2.372          | 50   | 107803              | 17.353 | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.525          | 62   | 144888              | 17.508 | ug/l   | 97       |
| 5) Bromomethane              | 2.960          | 94   | 130149              | 18.155 | ug/l   | 96       |
| 6) Chloroethane              | 3.131          | 64   | 105716              | 16.814 | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.507          | 101  | 221234              | 18.188 | ug/l   | 97       |
| 8) Diethyl Ether             | 3.972          | 74   | 84545               | 19.128 | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 131614              | 18.605 | ug/l   | 96       |
| 10) Methyl Iodide            | 4.601          | 142  | 148205              | 17.053 | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.537          | 59   | 119379              | 91.956 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 4.354          | 96   | 119825              | 17.326 | ug/l   | 96       |
| 13) Acrolein                 | 4.190          | 56   | 116153              | 89.940 | ug/l   | 97       |
| 14) Allyl chloride           | 5.031          | 41   | 130180              | 16.930 | ug/l   | 89       |
| 15) Acrylonitrile            | 5.731          | 53   | 275906              | 93.684 | ug/l   | 99       |
| 16) Acetone                  | 4.437          | 43   | 228582              | 88.848 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.719          | 76   | 287310              | 16.349 | ug/l   | 98       |
| 18) Methyl Acetate           | 5.037          | 43   | 187648              | 18.887 | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.801          | 73   | 444030              | 19.305 | ug/l   | 100      |
| 20) Methylene Chloride       | 5.290          | 84   | 149722              | 18.351 | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 135553              | 18.126 | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.684          | 45   | 330730              | 18.741 | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.613          | 43   | 1057112             | 95.918 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.578          | 63   | 231154              | 18.505 | ug/l   | 98       |
| 25) 2-Butanone               | 7.489          | 43   | 331334              | 90.801 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.495          | 77   | 223889              | 18.484 | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 164380              | 18.559 | ug/l   | 99       |
| 28) Bromochloromethane       | 7.813          | 49   | 107968              | 22.633 | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 215631              | 94.314 | ug/l   | 97       |
| 30) Chloroform               | 7.972          | 83   | 273307              | 19.414 | ug/l   | 92       |
| 31) Cyclohexane              | 8.266          | 56   | 198127              | 17.295 | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 8.178          | 97   | 243945              | 18.848 | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.378          | 75   | 184425              | 18.599 | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.566          | 43   | 139909              | 18.568 | ug/l # | 79       |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 203830              | 18.631 | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.601          | 83   | 244281              | 18.698 | ug/l   | 98       |
| 40) Benzene                  | 8.613          | 78   | 574595              | 19.021 | ug/l   | 97       |

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 ALS Vial : 6 Sample Multiplier: 1

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 ClientSampleId :  
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Quant Time: Apr 28 03:22:40 2023  
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 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 71858    | 18.310  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.672  | 62   | 204266   | 19.688  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 247580   | 18.993  | ug/l   | 98       |
| 44) Trichloroethene           | 9.354  | 130  | 148633   | 19.217  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 138370   | 19.555  | ug/l   | 97       |
| 46) Dibromomethane            | 9.707  | 93   | 108177   | 18.841  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.889  | 83   | 220073   | 19.815  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.683  | 41   | 111365   | 18.768  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 55556    | 373.269 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 722986   | 94.558  | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 390666   | 19.741  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 224307   | 19.946  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 243156   | 19.864  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 158341   | 19.898  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 221340   | 19.850  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 256688   | 20.251  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 385037   | 102.089 | ug/l   | 98       |
| 59) 2-Hexanone                | 11.195 | 43   | 523220   | 94.142  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.360 | 129  | 164965   | 19.974  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 155627   | 19.155  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.107 | 164  | 114457   | 18.670  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.895 | 112  | 410110   | 18.924  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 149147   | 18.916  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.966 | 91   | 743237   | 19.482  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.077 | 106  | 573145   | 38.655  | ug/l   | 99       |
| 69) o-Xylene                  | 12.401 | 106  | 281631   | 19.311  | ug/l   | 98       |
| 70) Styrene                   | 12.413 | 104  | 443927   | 19.464  | ug/l   | 98       |
| 71) Bromoform                 | 12.583 | 173  | 99415    | 19.272  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.701 | 105  | 728489   | 18.668  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.495 | 43   | 198299   | 17.164  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 217470   | 17.736  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 187626m  | 19.187  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 157198   | 18.483  | ug/l   | 97       |
| 78) n-propylbenzene           | 13.042 | 91   | 793771   | 18.396  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 497263   | 18.692  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 562029   | 19.394  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.742 | 75   | 59469    | 17.181  | ug/l # | 85       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 465110   | 18.710  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 513174   | 18.234  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.489 | 105  | 525230   | 19.406  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 725156   | 18.772  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 569683   | 19.167  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 275645   | 18.224  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 271157   | 18.157  | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.060 | 91   | 428475   | 18.628  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.336 | 117  | 110813   | 16.876  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 283185   | 18.877  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 37189    | 16.402  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.371 | 180  | 62252    | 17.717  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.465 | 225  | 54088    | 17.842  | ug/l   | 97       |
| 95) Naphthalene               | 15.589 | 128  | 234075   | 18.058  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.754 | 180  | 60094    | 18.116  | ug/l   | 97       |

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QLast Update : Tue Apr 25 02:50:59 2023  
Response via : Initial Calibration

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

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

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