

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090322\  
 Data File : VN074318.D  
 Acq On : 03 Sep 2022 15:33  
 Operator : JC\MD  
 Sample : VN0903WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0903WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/06/2022  
 Supervised By : Mahesh Dadoda 09/07/2022

Quant Time: Sep 05 05:34:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090222W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 03 04:35:33 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 322830              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.898          | 114  | 586958              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680         | 117  | 544980              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.616         | 152  | 249201              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 253854              | 50.444 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 100.880% |        |        |          |
| 35) Dibromofluoromethane     | 7.945          | 113  | 194390              | 49.978 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 99.960%  |        |        |          |
| 50) Toluene-d8               | 10.380         | 98   | 791937              | 51.636 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 103.280% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.669         | 95   | 264628              | 47.315 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 94.640%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 54896               | 17.956 | ug/l   | 99       |
| 3) Chloromethane             | 2.269          | 50   | 65216               | 14.786 | ug/l   | 90       |
| 4) Vinyl Chloride            | 2.405          | 62   | 131326              | 16.001 | ug/l   | 95       |
| 5) Bromomethane              | 2.787          | 94   | 85420               | 15.482 | ug/l   | 93       |
| 6) Chloroethane              | 2.952          | 64   | 118942              | 18.402 | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.310          | 101  | 104167              | 17.957 | ug/l   | 99       |
| 8) Diethyl Ether             | 3.763          | 74   | 43749               | 18.523 | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.140          | 101  | 64111               | 18.225 | ug/l   | 96       |
| 10) Methyl Iodide            | 4.346          | 142  | 32848               | 16.948 | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.281          | 59   | 87136               | 95.441 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.110          | 96   | 58172               | 18.306 | ug/l   | 88       |
| 13) Acrolein                 | 3.975          | 56   | 51353               | 83.571 | ug/l   | 99       |
| 14) Allyl chloride           | 4.763          | 41   | 93455               | 18.288 | ug/l   | 89       |
| 15) Acrylonitrile            | 5.475          | 53   | 228637              | 91.058 | ug/l   | 99       |
| 16) Acetone                  | 4.222          | 43   | 197440              | 93.877 | ug/l   | 92       |
| 17) Carbon Disulfide         | 4.451          | 76   | 128496              | 16.192 | ug/l   | 98       |
| 18) Methyl Acetate           | 4.769          | 43   | 112420              | 17.760 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.528          | 73   | 240368              | 19.084 | ug/l   | 92       |
| 20) Methylene Chloride       | 5.004          | 84   | 78887               | 20.001 | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.516          | 96   | 65835               | 18.075 | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.410          | 45   | 232261              | 19.359 | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.351          | 43   | 980430              | 94.021 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.304          | 63   | 136571              | 18.899 | ug/l   | 99       |
| 25) 2-Butanone               | 7.257          | 43   | 336548              | 94.762 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 108190              | 18.427 | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.245          | 96   | 86979               | 18.773 | ug/l   | 97       |
| 28) Bromochloromethane       | 7.587          | 49   | 46037               | 18.537 | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 218865              | 96.584 | ug/l   | 98       |
| 30) Chloroform               | 7.739          | 83   | 153494              | 19.201 | ug/l   | 95       |
| 31) Cyclohexane              | 8.022          | 56   | 124921              | 18.586 | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 125796              | 18.972 | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 106659              | 19.321 | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.334          | 43   | 125311              | 17.356 | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.134          | 117  | 102053              | 18.300 | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.392          | 83   | 124641              | 18.740 | ug/l   | 93       |
| 40) Benzene                  | 8.386          | 78   | 342645              | 19.676 | ug/l   | 98       |

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 ALS Vial : 4 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
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Quant Time: Sep 05 05:34:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090222W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 03 04:35:33 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 09/06/2022  
 Supervised By :Mahesh Dadoda 09/07/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 65292    | 20.107  | ug/l # | 68       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 121874   | 18.814  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 202242   | 19.276  | ug/l   | 98       |
| 44) Trichloroethene           | 9.151  | 130  | 81814    | 19.741  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.422  | 63   | 88591    | 20.451  | ug/l   | 99       |
| 46) Dibromomethane            | 9.510  | 93   | 65624    | 19.868  | ug/l # | 85       |
| 47) Bromodichloromethane      | 9.698  | 83   | 122924   | 20.295  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.498  | 41   | 84582    | 18.344  | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.498  | 88   | 44903    | 378.397 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 714145   | 97.301  | ug/l   | 97       |
| 52) Toluene                   | 10.445 | 92   | 226206   | 21.020  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 124822   | 20.242  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 133014   | 19.660  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 94352    | 20.435  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 140308   | 20.411  | ug/l # | 92       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 155859   | 19.738  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.981  | 63   | 323830   | 96.296  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.028 | 43   | 555769   | 100.052 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.175 | 129  | 91343    | 19.934  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 91261    | 19.728  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.916 | 164  | 68095    | 19.876  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.710 | 112  | 242463   | 20.268  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.775 | 131  | 86436    | 19.526  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.780 | 91   | 439399   | 20.008  | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.886 | 106  | 332432   | 40.550  | ug/l   | 97       |
| 69) o-Xylene                  | 12.222 | 106  | 162659   | 19.879  | ug/l   | 95       |
| 70) Styrene                   | 12.233 | 104  | 271770   | 20.742  | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 63112    | 19.687  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.516 | 105  | 428281   | 19.627  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.327 | 43   | 176546   | 18.970  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.763 | 83   | 157500   | 19.452  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.816 | 75   | 123967m  | 17.564  | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 92982    | 19.195  | ug/l   | 89       |
| 78) n-propylbenzene           | 12.857 | 91   | 506328   | 20.299  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 294172   | 19.209  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 357295   | 20.421  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.563 | 75   | 38835    | 17.862  | ug/l # | 83       |
| 82) 4-Chlorotoluene           | 13.039 | 91   | 286263   | 19.911  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.263 | 119  | 309502   | 19.490  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 358257   | 20.214  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 453087   | 20.437  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.551 | 119  | 361338   | 20.922  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.551 | 146  | 174726   | 19.705  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 173088   | 19.683  | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.880 | 91   | 302051   | 20.046  | ug/l   | 95       |
| 90) Hexachloroethane          | 14.145 | 117  | 62099    | 18.484  | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene       | 13.921 | 146  | 177622   | 19.109  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 30800    | 17.523  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 85479    | 19.112  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.298 | 225  | 39942    | 20.492  | ug/l   | 98       |
| 95) Naphthalene               | 15.433 | 128  | 325277   | 18.523  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 88520    | 19.140  | ug/l   | 98       |

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ALS Vial : 4 Sample Multiplier: 1

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APPROVED

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Quant Title : SW846 8260  
QLast Update : Sat Sep 03 04:35:33 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

