

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031023\  
 Data File : VN076918.D  
 Acq On : 10 Mar 2023 12:10  
 Operator : JC\MD  
 Sample : VSTDICC010  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/13/2023  
 Supervised By : Mahesh Dadoda 03/13/2023

Quant Time: Mar 10 12:29:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 10 11:43:29 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.231          | 168  | 395249     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 661793     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 578374     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 254992     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.589          | 65   | 60032      | 10.833   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 21.660%# |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 45810      | 11.065   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 22.140%# |        |          |
| 50) Toluene-d8               | 10.572         | 98   | 166373     | 10.431   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 20.860%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.848         | 95   | 57785      | 10.455   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 20.920%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.143          | 85   | 74194      | 16.132   | ug/l   | 93       |
| 3) Chloromethane             | 2.378          | 50   | 35790      | 5.917    | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.531          | 62   | 34450      | 6.213    | ug/l   | 99       |
| 5) Bromomethane              | 2.966          | 94   | 26832      | 7.365    | ug/l   | 85       |
| 6) Chloroethane              | 3.137          | 64   | 22296      | 5.907    | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.519          | 101  | 89124      | 11.017   | ug/l   | 90       |
| 8) Diethyl Ether             | 3.978          | 74   | 28565      | 9.179    | ug/l   | 82       |
| 9) 1,1,2-Trichlorotrifluo... | 4.396          | 101  | 45283      | 9.573    | ug/l   | 97       |
| 10) Methyl Iodide            | 4.601          | 142  | 44338      | 8.987    | ug/l # | 88       |
| 11) Tert butyl alcohol       | 5.531          | 59   | 39715      | 48.263   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 41796      | 9.476    | ug/l   | 96       |
| 13) Acrolein                 | 4.201          | 56   | 34474      | 32.384   | ug/l   | 97       |
| 14) Allyl chloride           | 5.037          | 41   | 57987      | 7.875    | ug/l # | 74       |
| 15) Acrylonitrile            | 5.737          | 53   | 112985     | 42.694   | ug/l   | 99       |
| 16) Acetone                  | 4.443          | 43   | 102760     | 42.482   | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.731          | 76   | 116976     | 9.769    | ug/l   | 99       |
| 18) Methyl Acetate           | 5.043          | 43   | 71476      | 8.623    | ug/l   | 89       |
| 19) Methyl tert-butyl Ether  | 5.813          | 73   | 146352     | 9.676    | ug/l   | 96       |
| 20) Methylene Chloride       | 5.295          | 84   | 50484      | 8.945    | ug/l # | 91       |
| 21) trans-1,2-Dichloroethene | 5.801          | 96   | 42844      | 8.984    | ug/l # | 71       |
| 22) Diisopropyl ether        | 6.684          | 45   | 134998     | 8.149    | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.619          | 43   | 419755     | 39.777   | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.584          | 63   | 87461      | 9.258    | ug/l   | 97       |
| 25) 2-Butanone               | 7.495          | 43   | 140694     | 39.818   | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.501          | 77   | 75138      | 10.860   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 52533      | 9.403    | ug/l   | 91       |
| 28) Bromochloromethane       | 7.825          | 49   | 33523      | 8.391    | ug/l   | 84       |
| 29) Tetrahydrofuran          | 7.848          | 42   | 90647      | 39.767   | ug/l # | 85       |
| 30) Chloroform               | 7.972          | 83   | 92265      | 9.833    | ug/l   | 97       |
| 31) Cyclohexane              | 8.266          | 56   | 86543      | 9.245    | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.178          | 97   | 86961      | 10.703   | ug/l   | 92       |
| 36) 1,1-Dichloropropene      | 8.378          | 75   | 66869      | 10.049   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.572          | 43   | 58772      | 8.605    | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 78351      | 11.591   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.607          | 83   | 79394      | 9.680    | ug/l # | 85       |
| 40) Benzene                  | 8.613          | 78   | 199793     | 9.857    | ug/l   | 96       |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC010

Quant Time: Mar 10 12:29:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 10 11:43:29 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/13/2023  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.784  | 41   | 31068    | 8.330   | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.678  | 62   | 75777    | 10.732  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 92596    | 8.856   | ug/l   | 94       |
| 44) Trichloroethene           | 9.354  | 130  | 49337    | 10.266  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 48328    | 9.226   | ug/l   | 96       |
| 46) Dibromomethane            | 9.707  | 93   | 34680    | 10.424  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.889  | 83   | 71695    | 10.483  | ug/l # | 95       |
| 48) Methyl methacrylate       | 9.689  | 41   | 44570    | 8.772   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 18283    | 196.329 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 295358   | 44.784  | ug/l   | 91       |
| 52) Toluene                   | 10.630 | 92   | 122792   | 10.174  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 70928    | 10.699  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 76835    | 10.090  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 47653    | 9.925   | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 69929    | 9.776   | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 81457    | 9.772   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.166 | 63   | 107854   | 43.515  | ug/l   | 94       |
| 59) 2-Hexanone                | 11.201 | 43   | 207467   | 43.412  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.360 | 129  | 49757    | 10.517  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.472 | 107  | 46458    | 10.068  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.101 | 164  | 41693    | 9.687   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.895 | 112  | 125870   | 10.070  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.966 | 131  | 49261    | 10.895  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.966 | 91   | 228329   | 10.060  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.077 | 106  | 171181   | 20.047  | ug/l   | 86       |
| 69) o-Xylene                  | 12.401 | 106  | 86361    | 10.270  | ug/l   | 87       |
| 70) Styrene                   | 12.413 | 104  | 136930   | 10.386  | ug/l   | 93       |
| 71) Bromoform                 | 12.577 | 173  | 34800    | 11.307  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.701 | 105  | 225221   | 10.133  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.495 | 43   | 73342    | 8.437   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 66785    | 9.376   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 66497m   | 10.340  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 47695    | 9.697   | ug/l   | 82       |
| 78) n-propylbenzene           | 13.036 | 91   | 246087   | 9.709   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 160087   | 9.846   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 197256   | 10.589  | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 18661    | 9.570   | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 154614   | 10.030  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 164509   | 10.334  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 196625   | 10.700  | ug/l   | 91       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 220846   | 9.936   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 180841   | 10.173  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 88129    | 9.813   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.813 | 146  | 87581    | 9.604   | ug/l   | 93       |
| 89) n-Butylbenzene            | 14.060 | 91   | 142761   | 9.296   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.336 | 117  | 33043    | 10.288  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 90210    | 9.916   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 13932    | 10.322  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 44539    | 9.786   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.507 | 225  | 26662    | 11.251  | ug/l   | 98       |
| 95) Naphthalene               | 15.642 | 128  | 142755   | 9.792   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 45406    | 10.151  | ug/l   | 97       |

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ALS Vial : 7 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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Quant Time: Mar 10 12:29:54 2023  
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Quant Title : SW846 8260  
QLast Update : Fri Mar 10 11:43:29 2023  
Response via : Initial Calibration

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

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

