

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022123\  
 Data File : VN076760.D  
 Acq On : 21 Feb 2023 19:12  
 Operator : JC\MD  
 Sample : 01627-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOQ-WATER-02-QT1-2023

Quant Time: Feb 22 04:14:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/22/2023  
 Supervised By : Mahesh Dadoda 02/22/2023

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.231          | 168  | 230669              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.107          | 114  | 433657              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 379986              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 163230              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.584          | 65   | 190912              | 59.937 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 119.880% |        |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 144695              | 50.950 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 101.900% |        |        |          |
| 50) Toluene-d8               | 10.566         | 98   | 557548              | 52.570 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 105.140% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.848         | 95   | 174030              | 49.543 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 99.080%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 10676               | 4.359  | ug/l   | 99       |
| 3) Chloromethane             | 2.372          | 50   | 15752               | 4.929  | ug/l   | 89       |
| 4) Vinyl Chloride            | 2.525          | 62   | 17530               | 5.574  | ug/l # | 88       |
| 5) Bromomethane              | 2.954          | 94   | 14348               | 7.529  | ug/l   | 97       |
| 6) Chloroethane              | 3.119          | 64   | 15103               | 7.599  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.502          | 101  | 21841               | 5.104  | ug/l   | 87       |
| 8) Diethyl Ether             | 3.972          | 74   | 9256                | 5.613  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 14828               | 5.897  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.601          | 142  | 16484               | 5.309  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.537          | 59   | 12678               | 30.154 | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 4.360          | 96   | 13926               | 5.849  | ug/l   | 84       |
| 13) Acrolein                 | 4.196          | 56   | 14760               | 23.384 | ug/l   | 88       |
| 14) Allyl chloride           | 5.037          | 41   | 21354               | 5.176  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.743          | 53   | 44690               | 29.951 | ug/l   | 98       |
| 16) Acetone                  | 4.443          | 43   | 37826               | 26.586 | ug/l # | 86       |
| 17) Carbon Disulfide         | 4.719          | 76   | 33334               | 5.303  | ug/l # | 94       |
| 18) Methyl Acetate           | 5.043          | 43   | 26375               | 5.679  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.807          | 73   | 46499               | 5.793  | ug/l   | 100      |
| 20) Methylene Chloride       | 5.290          | 84   | 18877               | 6.331  | ug/l # | 92       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 13959               | 5.208  | ug/l # | 86       |
| 22) Diisopropyl ether        | 6.678          | 45   | 55288               | 5.714  | ug/l # | 86       |
| 23) Vinyl Acetate            | 6.619          | 43   | 170227              | 29.734 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.572          | 63   | 31109               | 5.866  | ug/l # | 96       |
| 25) 2-Butanone               | 7.489          | 43   | 62822               | 29.933 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 7.501          | 77   | 20768               | 5.429  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 17734               | 5.579  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.825          | 49   | 14170               | 5.614  | ug/l # | 96       |
| 29) Tetrahydrofuran          | 7.854          | 42   | 39821               | 29.041 | ug/l   | 99       |
| 30) Chloroform               | 7.972          | 83   | 30415               | 5.740  | ug/l # | 82       |
| 31) Cyclohexane              | 8.266          | 56   | 34743               | 6.954  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 8.166          | 97   | 25119               | 5.639  | ug/l # | 51       |
| 36) 1,1-Dichloropropene      | 8.378          | 75   | 21993               | 5.360  | ug/l # | 84       |
| 37) Ethyl Acetate            | 7.560          | 43   | 19606               | 4.541  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.360          | 117  | 20024               | 4.838  | ug/l   | 91       |
| 39) Methylcyclohexane        | 9.601          | 83   | 23864               | 5.117  | ug/l   | 88       |
| 40) Benzene                  | 8.607          | 78   | 69162               | 5.489  | ug/l   | 98       |

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 Sample : 01627-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOQ-WATER-02-QT1-2023

Quant Time: Feb 22 04:14:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/22/2023  
 Supervised By : Mahesh Dadoda 02/22/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.784  | 41   | 13984    | 5.591   | ug/l # | 91       |
| 42) 1,2-Dichloroethane        | 8.678  | 62   | 25950    | 5.905   | ug/l   | 90       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 37478    | 5.335   | ug/l   | 95       |
| 44) Trichloroethene           | 9.354  | 130  | 15180    | 5.098   | ug/l   | 75       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 18309    | 5.489   | ug/l   | 91       |
| 46) Dibromomethane            | 9.713  | 93   | 11972    | 5.614   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.889  | 83   | 22459    | 5.253   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.683  | 41   | 18752    | 5.625   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.701  | 88   | 6758     | 117.196 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 127985   | 28.634  | ug/l   | 97       |
| 52) Toluene                   | 10.636 | 92   | 39490    | 5.191   | ug/l   | 88       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 21293    | 5.160   | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 24210    | 5.086   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 17142    | 5.541   | ug/l # | 89       |
| 56) Ethyl methacrylate        | 10.872 | 69   | 21770    | 5.000   | ug/l # | 94       |
| 57) 1,3-Dichloropropane       | 11.160 | 76   | 29384    | 5.529   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 46490    | 23.313  | ug/l   | 100      |
| 59) 2-Hexanone                | 11.195 | 43   | 88134    | 27.347  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.366 | 129  | 14859    | 4.558   | ug/l   | 93       |
| 61) 1,2-Dibromoethane         | 11.466 | 107  | 15942    | 5.149   | ug/l   | 90       |
| 64) Tetrachloroethene         | 11.107 | 164  | 13037    | 5.444   | ug/l   | 90       |
| 65) Chlorobenzene             | 11.895 | 112  | 43740    | 5.432   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.966 | 131  | 15054    | 5.147   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.966 | 91   | 74888    | 5.458   | ug/l   | 93       |
| 68) m/p-Xylenes               | 12.072 | 106  | 53652    | 10.145  | ug/l   | 86       |
| 69) o-Xylene                  | 12.401 | 106  | 26955    | 5.226   | ug/l   | 93       |
| 70) Styrene                   | 12.413 | 104  | 40546    | 4.862   | ug/l   | 94       |
| 71) Bromoform                 | 12.577 | 173  | 10075    | 4.696   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.701 | 105  | 69880    | 5.841   | ug/l   | 94       |
| 74) N-amyl acetate            | 12.495 | 43   | 29323    | 5.437   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 25336    | 5.850   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 17795m   | 5.392   | ug/l   |          |
| 77) Bromobenzene              | 12.977 | 156  | 15866    | 5.315   | ug/l   | 88       |
| 78) n-propylbenzene           | 13.036 | 91   | 81736    | 5.818   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 48025    | 5.583   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 55641    | 5.627   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.742 | 75   | 5132     | 4.529   | ug/l # | 72       |
| 82) 4-Chlorotoluene           | 13.130 | 91   | 48025    | 5.583   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.442 | 119  | 48339    | 5.404   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 53457    | 5.425   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 68073    | 5.451   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 53158    | 5.331   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 31511    | 5.584   | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 31081    | 5.531   | ug/l   | 95       |
| 89) n-Butylbenzene            | 14.060 | 91   | 41515    | 4.787   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.336 | 117  | 11937    | 5.717   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 31720    | 5.483   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 4396     | 5.239   | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 13750    | 4.765   | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 15.507 | 225  | 7304     | 5.165   | ug/l   | 92       |
| 95) Naphthalene               | 15.642 | 128  | 36928    | 4.217   | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 13857    | 4.957   | ug/l   | 99       |

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ALS Vial : 18 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 02/22/2023

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Quant Title : SW846 8260  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

