

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111721\  
 Data File : VN069531.D  
 Acq On : 17 Nov 2021 15:40  
 Operator : JC/MD  
 Sample : M4068-07 .75PPB  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2021

Quant Time: Nov 18 08:13:57 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 18 08:00:30 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/18/2021  
 Supervised By :Mahesh Dadoda 11/18/2021

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.088          | 168  | 933936              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1559910             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.747         | 117  | 1367486             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678         | 152  | 470792              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 751492              | 55.495 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 111.000% |        |        |          |
| 35) Dibromofluoromethane     | 8.024          | 113  | 503193              | 53.785 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 107.560% |        |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 1914507             | 52.031 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 104.060% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 596256              | 44.110 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 88.220%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 5947                | 0.596  | ug/l   | 100      |
| 3) Chloromethane             | 2.306          | 50   | 9546                | 0.825  | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.448          | 62   | 7542                | 0.651  | ug/l # | 87       |
| 5) Bromomethane              | 2.872          | 94   | 6984                | 0.928  | ug/l # | 78       |
| 6) Chloroethane              | 3.036          | 64   | 5611                | 0.717  | ug/l # | 72       |
| 7) Trichlorofluoromethane    | 3.379          | 101  | 11151               | 0.623  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.829          | 74   | 4115                | 0.710  | ug/l # | 50       |
| 9) 1,1,2-Trichlorotrifluo... | 4.208          | 101  | 5649m               | 0.670  | ug/l   |          |
| 10) Methyl Iodide            | 4.427          | 142  | 6515                | 0.630  | ug/l # | 61       |
| 11) Tert butyl alcohol       | 5.382          | 59   | 15928m              | 6.528  | ug/l   |          |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 5104                | 0.674  | ug/l   | 96       |
| 13) Acrolein                 | 4.041          | 56   | 1874                | 4.888  | ug/l   | 88       |
| 14) Allyl chloride           | 4.854          | 41   | 11640m              | 0.696  | ug/l   |          |
| 15) Acrylonitrile            | 5.573          | 53   | 18337               | 2.934  | ug/l   | 92       |
| 16) Acetone                  | 4.299          | 43   | 24940               | 3.414  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.527          | 76   | 10695               | 0.598  | ug/l # | 93       |
| 18) Methyl Acetate           | 4.867          | 43   | 19279               | 0.812  | ug/l # | 82       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 19576               | 0.611  | ug/l # | 91       |
| 20) Methylene Chloride       | 5.090          | 84   | 8210                | 0.792  | ug/l # | 87       |
| 21) trans-1,2-Dichloroethene | 5.589          | 96   | 5613m               | 0.664  | ug/l   |          |
| 22) Diisopropyl ether        | 6.506          | 45   | 22054               | 0.612  | ug/l # | 78       |
| 23) Vinyl Acetate            | 6.439          | 43   | 73721               | 2.644  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 12550               | 0.683  | ug/l # | 93       |
| 25) 2-Butanone               | 7.343          | 43   | 29617               | 2.994  | ug/l # | 88       |
| 26) 2,2-Dichloropropane      | 7.329          | 77   | 9338                | 0.650  | ug/l # | 62       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 6508                | 0.621  | ug/l   | 77       |
| 28) Bromochloromethane       | 7.659          | 49   | 7492                | 0.797  | ug/l # | 76       |
| 29) Tetrahydrofuran          | 7.694          | 42   | 19711               | 3.247  | ug/l # | 87       |
| 30) Chloroform               | 7.820          | 83   | 13167               | 0.699  | ug/l   | 95       |
| 31) Cyclohexane              | 8.088          | 56   | 34635               | 1.872  | ug/l # | 58       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 9438                | 0.601  | ug/l # | 48       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 9566                | 0.729  | ug/l # | 79       |
| 37) Ethyl Acetate            | 7.415          | 43   | 12341m              | 0.696  | ug/l   |          |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 7983                | 0.630  | ug/l   | 86       |
| 39) Methylcyclohexane        | 9.459          | 83   | 9969                | 0.611  | ug/l # | 79       |
| 40) Benzene                  | 8.461          | 78   | 27875               | 0.688  | ug/l # | 90       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2021

Quant Time: Nov 18 08:13:57 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 18 08:00:30 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/18/2021  
 Supervised By :Mahesh Dadoda 11/18/2021

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.643  | 41   | 5089     | 0.555  | ug/l # | 63       |
| 42) 1,2-Dichloroethane        | 8.534  | 62   | 13196    | 0.832  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 16962    | 0.595  | ug/l # | 92       |
| 44) Trichloroethene           | 9.215  | 130  | 6750     | 0.696  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.494  | 63   | 7781     | 0.719  | ug/l   | 100      |
| 46) Dibromomethane            | 9.577  | 93   | 4717     | 0.651  | ug/l # | 87       |
| 47) Bromodichloromethane      | 9.767  | 83   | 8099     | 0.599  | ug/l # | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 7174     | 0.535  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.566  | 88   | 3062     | 12.804 | ug/l # | 68       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 55219    | 3.002  | ug/l   | 91       |
| 52) Toluene                   | 10.505 | 92   | 16708    | 0.662  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.717 | 75   | 6629     | 0.469  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 8005     | 0.519  | ug/l   | 89       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 7418     | 0.729  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.765 | 69   | 8847     | 0.525  | ug/l # | 75       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 11269    | 0.630  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.044 | 63   | 8456     | 2.166  | ug/l # | 72       |
| 59) 2-Hexanone                | 11.089 | 43   | 35395    | 2.582  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.237 | 129  | 4371     | 0.459  | ug/l   | 85       |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 6062     | 0.588  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.977 | 164  | 5942     | 0.720  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.771 | 112  | 16914    | 0.665  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 5539     | 0.627  | ug/l # | 67       |
| 67) Ethyl Benzene             | 11.846 | 91   | 29289    | 0.624  | ug/l   | 92       |
| 68) m/p-Xylenes               | 11.956 | 106  | 20331    | 1.178  | ug/l   | 99       |
| 69) o-Xylene                  | 12.283 | 106  | 9763     | 0.567  | ug/l   | 93       |
| 70) Styrene                   | 12.299 | 104  | 14356    | 0.519  | ug/l # | 89       |
| 71) Bromoform                 | 12.463 | 173  | 2553     | 0.405  | ug/l # | 29       |
| 73) Isopropylbenzene          | 12.581 | 105  | 25312    | 0.675  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.393 | 43   | 9516     | 0.599  | ug/l # | 86       |
| 75) 1,1,2,2-Tetrachloroethane | 12.825 | 83   | 9644     | 0.763  | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 9185m    | 0.845  | ug/l   |          |
| 77) Bromobenzene              | 12.868 | 156  | 6296     | 0.734  | ug/l   | 74       |
| 78) n-propylbenzene           | 12.921 | 91   | 26548    | 0.629  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 19379    | 0.742  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 19248    | 0.635  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.624 | 75   | 1021m    | 0.315  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.109 | 91   | 17056    | 0.685  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 16010    | 0.603  | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 17574    | 0.601  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 20520    | 0.553  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 15852    | 0.538  | ug/l # | 82       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 9678     | 0.651  | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene       | 13.702 | 146  | 11085m   | 0.760  | ug/l   |          |
| 89) n-Butylbenzene            | 13.946 | 91   | 12950    | 0.527  | ug/l   | 93       |
| 90) Hexachloroethane          | 14.211 | 117  | 2334     | 0.483  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 10591    | 0.749  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 765      | 0.374  | ug/l   | 80       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 3928     | 0.630  | ug/l   | 89       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 2537     | 0.690  | ug/l   | 91       |
| 95) Naphthalene               | 15.504 | 128  | 10845    | 0.649  | ug/l # | 90       |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 3254     | 0.545  | ug/l # | 86       |

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QLast Update : Thu Nov 18 08:00:30 2021  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/18/2021  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

## Manual Integrations

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