

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101124\  
 Data File : VN084400.D  
 Acq On : 11 Oct 2024 15:18  
 Operator : JC\MD  
 Sample : P4368-09 2.5PPB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT4-2024

Quant Time: Oct 14 02:56:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 14 02:44:47 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/14/2024  
 Supervised By : Mahesh Dadoda 10/14/2024

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 151005              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 264928              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 238181              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 106439              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.576          | 65   | 125841              | 56.206 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 112.420% |        |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 98140               | 56.190 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 112.380% |        |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 348182              | 54.185 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 108.360% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 125814              | 53.744 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 107.480% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 4834                | 2.706  | ug/l   | 79       |
| 3) Chloromethane             | 2.365          | 50   | 5611                | 2.751  | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.518          | 62   | 5454                | 2.761  | ug/l   | 93       |
| 5) Bromomethane              | 2.959          | 94   | 4102                | 3.148  | ug/l   | 83       |
| 6) Chloroethane              | 3.118          | 64   | 5555                | 3.926  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 8945                | 2.908  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 3050                | 2.673  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 5087                | 2.886  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.594          | 142  | 5486                | 2.417  | ug/l   | 89       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 1679                | 4.548  | ug/l # | 73       |
| 12) 1,1-Dichloroethene       | 4.341          | 96   | 4654                | 2.737  | ug/l   | 86       |
| 13) Acrolein                 | 4.189          | 56   | 3733                | 8.808  | ug/l   | 96       |
| 14) Allyl chloride           | 5.030          | 41   | 6767                | 2.292  | ug/l # | 62       |
| 15) Acrylonitrile            | 5.718          | 53   | 12208               | 13.095 | ug/l   | 99       |
| 16) Acetone                  | 4.430          | 43   | 14283               | 14.850 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.706          | 76   | 13044               | 2.423  | ug/l   | 96       |
| 18) Methyl Acetate           | 5.030          | 43   | 5275                | 2.516  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.800          | 73   | 13934               | 2.428  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.271          | 84   | 5384                | 2.754  | ug/l # | 93       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 4702                | 2.640  | ug/l # | 93       |
| 22) Diisopropyl ether        | 6.682          | 45   | 14973               | 2.451  | ug/l # | 94       |
| 23) Vinyl Acetate            | 6.600          | 43   | 48855               | 10.785 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.559          | 63   | 10034               | 2.938  | ug/l # | 88       |
| 25) 2-Butanone               | 7.488          | 43   | 17239               | 13.160 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 8170                | 2.653  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 5533                | 2.571  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.806          | 49   | 4307                | 2.826  | ug/l # | 91       |
| 29) Tetrahydrofuran          | 7.835          | 42   | 8974                | 11.101 | ug/l   | 98       |
| 30) Chloroform               | 7.965          | 83   | 9996                | 2.817  | ug/l   | 99       |
| 31) Cyclohexane              | 8.253          | 56   | 10653               | 3.212  | ug/l # | 78       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 8874                | 2.785  | ug/l # | 90       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 6683                | 2.634  | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.565          | 43   | 6700                | 2.574  | ug/l # | 81       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 7804                | 2.804  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.600          | 83   | 6438                | 2.280  | ug/l   | 94       |
| 40) Benzene                  | 8.606          | 78   | 21257               | 2.689  | ug/l   | 94       |

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 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT4-2024

Quant Time: Oct 14 02:56:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 14 02:44:47 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 10/14/2024  
 Supervised By :Mahesh Dadoda 10/14/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 3272     | 2.316  | ug/l # | 90       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 7739     | 2.888  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 11917    | 2.338  | ug/l   | 99       |
| 44) Trichloroethene           | 9.353  | 130  | 4860     | 2.633  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 5357     | 2.865  | ug/l # | 79       |
| 46) Dibromomethane            | 9.706  | 93   | 3692     | 2.926  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 7231     | 2.579  | ug/l   | 85       |
| 48) Methyl methacrylate       | 9.682  | 41   | 4619     | 2.276  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 2176     | 58.243 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 29623    | 11.956 | ug/l   | 97       |
| 52) Toluene                   | 10.629 | 92   | 13098    | 2.717  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.829 | 75   | 6995     | 2.448  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 7382     | 2.402  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 4599     | 2.662  | ug/l # | 89       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 6607     | 2.324  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 8681     | 2.812  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 11843    | 8.979  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.194 | 43   | 22334    | 12.060 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.353 | 129  | 5834     | 2.858  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 5193     | 2.892  | ug/l   | 88       |
| 64) Tetrachloroethene         | 11.106 | 164  | 4656     | 2.807  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.888 | 112  | 13894    | 2.631  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 4697     | 2.582  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.964 | 91   | 21124    | 2.262  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.064 | 106  | 14187    | 4.107  | ug/l   | 95       |
| 69) o-Xylene                  | 12.394 | 106  | 7339     | 2.245  | ug/l   | 97       |
| 70) Styrene                   | 12.412 | 104  | 11638    | 2.102  | ug/l   | 97       |
| 71) Bromoform                 | 12.576 | 173  | 3758     | 2.806  | ug/l # | 94       |
| 73) Isopropylbenzene          | 12.694 | 105  | 16572    | 2.040  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.494 | 43   | 7751     | 2.107  | ug/l # | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 6481     | 2.654  | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 6214m    | 2.860  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 5179     | 2.643  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 22337    | 2.374  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 14802    | 2.465  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 14391    | 2.172  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75   | 2024m    | 2.233  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 14808    | 2.450  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 12128    | 2.060  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 13467    | 2.018  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.611 | 105  | 16928    | 2.154  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.723 | 119  | 12272    | 1.889  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 8672     | 2.359  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.811 | 146  | 9509     | 2.562  | ug/l   | 89       |
| 89) n-Butylbenzene            | 14.058 | 91   | 11846    | 2.011  | ug/l   | 95       |
| 90) Hexachloroethane          | 14.335 | 117  | 3043     | 2.307  | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene       | 14.100 | 146  | 8965     | 2.488  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 1354     | 2.687  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 3233     | 1.821  | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 15.494 | 225  | 1868     | 2.110  | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 9532     | 1.620  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 3330     | 1.874  | ug/l   | 93       |

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Quant Title : SW846 8260  
QLast Update : Mon Oct 14 02:44:47 2024  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/14/2024  
Supervised By :Mahesh Dadoda 10/14/2024

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

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

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