

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071223\  
 Data File : VN078478.D  
 Acq On : 12 Jul 2023 13:29  
 Operator : JC\MD  
 Sample : 03572-09 .2PPB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT3-2023

Quant Time: Jul 13 04:31:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 13 04:30:43 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/13/2023  
 Supervised By : Mahesh Dadoda 07/13/2023

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.235          | 168  | 415954              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112          | 114  | 755327              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 632399              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 180114              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 322493              | 57.833 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 115.660% |        |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 273272              | 53.296 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 106.600% |        |        |          |
| 50) Toluene-d8               | 10.570         | 98   | 973041              | 50.235 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 100.480% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.859         | 95   | 266024              | 44.588 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 89.180%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 1612                | 0.316  | ug/l # | 63       |
| 3) Chloromethane             | 2.377          | 50   | 2728                | 0.492  | ug/l   | 90       |
| 4) Vinyl Chloride            | 2.524          | 62   | 2212                | 0.308  | ug/l # | 42       |
| 5) Bromomethane              | 2.965          | 94   | 3914                | 0.764  | ug/l   | 98       |
| 6) Chloroethane              | 3.147          | 64   | 4631                | 0.956  | ug/l # | 47       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 2261                | 0.264  | ug/l # | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 1077                | 0.237  | ug/l # | 44       |
| 10) Methyl Iodide            | 4.594          | 142  | 2152m               | 0.345  | ug/l   |          |
| 11) Tert butyl alcohol       | 5.559          | 59   | 1300m               | 1.512  | ug/l   |          |
| 13) Acrolein                 | 4.200          | 56   | 1065                | 1.259  | ug/l   | 87       |
| 15) Acrylonitrile            | 5.747          | 53   | 2400                | 1.105  | ug/l   | 97       |
| 16) Acetone                  | 4.459          | 43   | 1414                | 0.814  | ug/l # | 87       |
| 17) Carbon Disulfide         | 4.724          | 76   | 4982                | 0.393  | ug/l # | 78       |
| 20) Methylene Chloride       | 5.288          | 84   | 2846                | 0.508  | ug/l # | 87       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 1024                | 0.207  | ug/l # | 78       |
| 23) Vinyl Acetate            | 6.624          | 43   | 8591                | 1.006  | ug/l # | 83       |
| 25) 2-Butanone               | 7.506          | 43   | 2925                | 1.070  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.506          | 96   | 1408                | 0.246  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.818          | 49   | 894                 | 0.210  | ug/l # | 75       |
| 29) Tetrahydrofuran          | 7.859          | 42   | 2035                | 1.134  | ug/l # | 63       |
| 30) Chloroform               | 7.982          | 83   | 2771                | 0.294  | ug/l # | 64       |
| 31) Cyclohexane              | 8.235          | 56   | 10173               | 1.350  | ug/l # | 56       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 1818                | 0.246  | ug/l # | 78       |
| 38) Carbon Tetrachloride     | 8.376          | 117  | 1928                | 0.240  | ug/l # | 90       |
| 39) Methylcyclohexane        | 9.606          | 83   | 1510                | 0.223  | ug/l # | 71       |
| 40) Benzene                  | 8.606          | 78   | 4764                | 0.217  | ug/l   | 91       |
| 42) 1,2-Dichloroethane       | 8.682          | 62   | 2267                | 0.304  | ug/l   | 82       |
| 44) Trichloroethene          | 9.365          | 130  | 1775                | 0.300  | ug/l   | 79       |
| 45) 1,2-Dichloropropane      | 9.635          | 63   | 1225                | 0.221  | ug/l   | 94       |
| 46) Dibromomethane           | 9.712          | 93   | 1293                | 0.331  | ug/l # | 71       |
| 47) Bromodichloromethane     | 9.900          | 83   | 1573                | 0.201  | ug/l # | 87       |
| 48) Methyl methacrylate      | 9.688          | 41   | 963                 | 0.205  | ug/l # | 81       |
| 49) 1,4-Dioxane              | 9.712          | 88   | 299                 | 2.913  | ug/l # | 62       |
| 51) 4-Methyl-2-Pentanone     | 10.453         | 43   | 6948                | 1.150  | ug/l   | 93       |
| 52) Toluene                  | 10.629         | 92   | 4192                | 0.308  | ug/l # | 64       |
| 53) t-1,3-Dichloropropene    | 10.835         | 75   | 1913                | 0.238  | ug/l # | 87       |

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 ALS Vial : 8 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT3-2023

Quant Time: Jul 13 04:31:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 13 04:30:43 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 07/13/2023  
 Supervised By :Mahesh Dadoda 07/13/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 1334     | 0.249 | ug/l # | 82       |
| 56) Ethyl methacrylate        | 10.888 | 69   | 1570     | 0.210 | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 2316     | 0.254 | ug/l # | 72       |
| 58) 2-Chloroethyl Vinyl ether | 10.170 | 63   | 2073     | 0.777 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.200 | 43   | 5177     | 1.205 | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.370 | 129  | 1246     | 0.211 | ug/l   | 93       |
| 61) 1,2-Dibromoethane         | 11.482 | 107  | 1258     | 0.228 | ug/l   | 91       |
| 64) Tetrachloroethene         | 11.100 | 164  | 1398     | 0.294 | ug/l # | 37       |
| 65) Chlorobenzene             | 11.900 | 112  | 4240     | 0.300 | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.970 | 131  | 1480     | 0.272 | ug/l # | 60       |
| 67) Ethyl Benzene             | 11.964 | 91   | 5831     | 0.244 | ug/l # | 80       |
| 68) m/p-Xylenes               | 12.082 | 106  | 4048     | 0.458 | ug/l   | 99       |
| 69) o-Xylene                  | 12.406 | 106  | 1862     | 0.209 | ug/l   | 85       |
| 73) Isopropylbenzene          | 12.700 | 105  | 4017     | 0.237 | ug/l   | 91       |
| 74) N-amyl acetate            | 12.500 | 43   | 2039     | 0.350 | ug/l # | 72       |
| 75) 1,1,2,2-Tetrachloroethane | 12.953 | 83   | 1941     | 0.340 | ug/l # | 27       |
| 76) 1,2,3-Trichloropropane    | 13.006 | 75   | 2228m    | 0.512 | ug/l   |          |
| 77) Bromobenzene              | 12.994 | 156  | 1508     | 0.363 | ug/l   | 89       |
| 78) n-propylbenzene           | 13.035 | 91   | 5019     | 0.277 | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 3167     | 0.267 | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 3879     | 0.290 | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 3186     | 0.288 | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 2547     | 0.224 | ug/l # | 71       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 3465     | 0.267 | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 3676     | 0.256 | ug/l # | 75       |
| 86) p-Isopropyltoluene        | 13.741 | 119  | 2488     | 0.216 | ug/l   | 89       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 1973     | 0.304 | ug/l   | 87       |
| 88) 1,4-Dichlorobenzene       | 13.741 | 146  | 1973     | 0.301 | ug/l   | 88       |
| 89) n-Butylbenzene            | 14.058 | 91   | 2365     | 0.287 | ug/l   | 84       |
| 90) Hexachloroethane          | 14.335 | 117  | 785      | 0.322 | ug/l   | 70       |
| 91) 1,2-Dichlorobenzene       | 14.117 | 146  | 1686     | 0.261 | ug/l # | 68       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 657      | 0.697 | ug/l # | 41       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 744      | 0.361 | ug/l # | 82       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 764      | 0.566 | ug/l   | 86       |
| 95) Naphthalene               | 15.647 | 128  | 4172     | 0.591 | ug/l # | 93       |
| 96) 1,2,3-Trichlorobenzene    | 15.852 | 180  | 1201     | 0.506 | ug/l # | 70       |

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

## Manual Integrations

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 13 04:30:43 2023  
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