

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN033121\  
 Data File : VN066444.D  
 Acq On : 31 Mar 2021 16:10  
 Operator : JC/MD  
 Sample : M1458-09 0.5 PPB  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT1-2021

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2021 4:41:21 PM

Quant Time: Apr 01 02:42:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N032521W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 01 02:41:59 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                        |                |      |                    |       |        |          |
| Internal Standards           |                |      |                    |       |        |          |
| 1) Pentafluorobenzene        | 7.582          | 168  | 362130             | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.512          | 114  | 570159             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.347         | 117  | 507484             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.289         | 152  | 213640             | 50.00 | ug/l   | 0.00     |
|                              |                |      |                    |       |        |          |
| System Monitoring Compounds  |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.944          | 65   | 250205             | 51.97 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 103.94% |       |        |          |
| 35) Dibromofluoromethane     | 7.504          | 113  | 193965             | 51.32 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.64% |       |        |          |
| 50) Toluene-d8               | 10.025         | 98   | 709277             | 49.47 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 98.94%  |       |        |          |
| 62) 4-Bromofluorobenzene     | 12.345         | 95   | 215509             | 43.28 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 86.56%  |       |        |          |
|                              |                |      |                    |       |        |          |
| Target Compounds             |                |      |                    |       | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.816          | 85   | 2372               | 0.52  | ug/l   | 97       |
| 3) Chloromethane             | 2.011          | 50   | 4565               | 0.85  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.145          | 62   | 3301               | 0.63  | ug/l   | 93       |
| 5) Bromomethane              | 2.524          | 94   | 2537               | 0.72  | ug/l # | 80       |
| 6) Chloroethane              | 2.655          | 64   | 1989               | 0.61  | ug/l # | 76       |
| 7) Trichlorofluoromethane    | 2.955          | 101  | 4038               | 0.56  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.344          | 74   | 2140m              | 0.73  | ug/l   |          |
| 9) 1,1,2-Trichlorotrifluo... | 3.674          | 101  | 2501m              | 0.62  | ug/l   |          |
| 10) Methyl Iodide            | 3.859          | 142  | 1888               | 0.33  | ug/l # | 90       |
| 11) Tert butyl alcohol       | 4.715          | 59   | 1674m              | 2.28  | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.655          | 96   | 2315               | 0.56  | ug/l # | 74       |
| 13) Acrolein                 | 3.537          | 56   | 5330m              | 11.19 | ug/l   |          |
| 14) Allyl chloride           | 4.224          | 41   | 4327               | 0.53  | ug/l # | 75       |
| 15) Acrylonitrile            | 4.884          | 53   | 5149               | 2.51  | ug/l # | 18       |
| 16) Acetone                  | 3.739          | 43   | 13272              | 5.10  | ug/l   | 90       |
| 17) Carbon Disulfide         | 3.961          | 76   | 8731               | 0.71  | ug/l # | 94       |
| 18) Methyl Acetate           | 4.235          | 43   | 3142               | 0.46  | ug/l # | 78       |
| 19) Methyl tert-butyl Ether  | 4.945          | 73   | 6865m              | 0.56  | ug/l   |          |
| 20) Methylene Chloride       | 4.447          | 84   | 4243               | 0.85  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 4.924          | 96   | 2220m              | 0.59  | ug/l   |          |
| 22) Diisopropyl ether        | 5.849          | 45   | 6841               | 0.53  | ug/l # | 93       |
| 23) Vinyl Acetate            | 5.793          | 43   | 26675m             | 2.45  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 5.739          | 63   | 3945m              | 0.56  | ug/l   |          |
| 25) 2-Butanone               | 6.748          | 43   | 7445               | 2.62  | ug/l # | 85       |
| 26) 2,2-Dichloropropane      | 6.726          | 77   | 3576m              | 0.57  | ug/l   |          |
| 27) cis-1,2-Dichloroethene   | 6.737          | 96   | 2228               | 0.51  | ug/l   | 82       |
| 28) Bromochloromethane       | 7.110          | 49   | 1975               | 0.55  | ug/l # | 89       |
| 29) Tetrahydrofuran          | 7.131          | 42   | 4947               | 2.67  | ug/l # | 68       |
| 30) Chloroform               | 7.281          | 83   | 3791               | 0.54  | ug/l   | 93       |
| 31) Cyclohexane              | 7.576          | 56   | 10457              | 1.57  | ug/l # | 23       |
| 32) 1,1,1-Trichloroethane    | 7.480          | 97   | 3072               | 0.49  | ug/l # | 40       |
| 36) 1,1-Dichloropropene      | 7.711          | 75   | 3089m              | 0.58  | ug/l   |          |
| 37) Ethyl Acetate            | 6.847          | 43   | 3073m              | 0.52  | ug/l   |          |
| 38) Carbon Tetrachloride     | 7.684          | 117  | 3327               | 0.62  | ug/l # | 81       |
| 39) Methylcyclohexane        | 9.006          | 83   | 2931               | 0.45  | ug/l   | 91       |
| 40) Benzene                  | 7.960          | 78   | 8655               | 0.54  | ug/l # | 86       |

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 Sample : M1458-09 0.5 PPB  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT1-2021

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2021 4:41:21 PM

Quant Time: Apr 01 02:42:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N032521W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 01 02:41:59 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 41) Methacrylonitrile         | 7.075  | 41   | 1607m    | 0.55  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.048  | 62   | 3650     | 0.63  | ug/l   | 82       |
| 43) Isopropyl Acetate         | 8.091  | 43   | 5734     | 0.57  | ug/l # | 91       |
| 44) Trichloroethene           | 8.756  | 130  | 2259m    | 0.53  | ug/l   |          |
| 45) 1,2-Dichloropropane       | 9.049  | 63   | 2542     | 0.59  | ug/l   | 100      |
| 46) Dibromomethane            | 9.148  | 93   | 1456m    | 0.52  | ug/l   |          |
| 47) Bromodichloromethane      | 9.336  | 83   | 3335     | 0.57  | ug/l # | 93       |
| 48) Methyl methacrylate       | 9.137  | 41   | 2733     | 0.57  | ug/l # | 63       |
| 49) 1,4-Dioxane               | 9.140  | 88   | 666      | 11.05 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 9.920  | 43   | 13326    | 2.26  | ug/l   | 98       |
| 52) Toluene                   | 10.089 | 92   | 5554     | 0.56  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.323 | 75   | 2803     | 0.44  | ug/l # | 84       |
| 54) cis-1,3-Dichloropropene   | 9.778  | 75   | 3519     | 0.52  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 10.500 | 97   | 2291     | 0.57  | ug/l # | 94       |
| 56) Ethyl methacrylate        | 10.371 | 69   | 2591     | 0.42  | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.650 | 76   | 3332     | 0.50  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.631  | 63   | 665      | 1.21  | ug/l # | 49       |
| 59) 2-Hexanone                | 10.698 | 43   | 8785     | 2.13  | ug/l   | 86       |
| 60) Dibromochloromethane      | 10.846 | 129  | 2034     | 0.46  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 10.942 | 107  | 1916     | 0.46  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.570 | 164  | 2378     | 0.55  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.374 | 112  | 5508     | 0.54  | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.457 | 131  | 1905     | 0.49  | ug/l # | 51       |
| 67) Ethyl Benzene             | 11.452 | 91   | 9574     | 0.52  | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.562 | 106  | 7002     | 1.00  | ug/l   | 100      |
| 69) o-Xylene                  | 11.892 | 106  | 3221     | 0.48  | ug/l   | 91       |
| 70) Styrene                   | 11.905 | 104  | 4275     | 0.39  | ug/l   | 97       |
| 71) Bromoform                 | 12.069 | 173  | 1335     | 0.41  | ug/l # | 88       |
| 73) Isopropylbenzene          | 12.197 | 105  | 7295     | 0.46  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.452 | 83   | 2944     | 0.58  | ug/l # | 88       |
| 76) 1,2,3-Trichloropropane    | 12.503 | 75   | 3121m    | 0.67  | ug/l   |          |
| 77) Bromobenzene              | 12.474 | 156  | 2150     | 0.54  | ug/l   | 81       |
| 78) n-propylbenzene           | 12.535 | 91   | 7244     | 0.42  | ug/l   | 77       |
| 79) 2-Chlorotoluene           | 12.619 | 91   | 4862     | 0.46  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.680 | 105  | 6071     | 0.47  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.248 | 75   | 676m     | 0.43  | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.718 | 91   | 5651m    | 0.53  | ug/l   |          |
| 83) tert-Butylbenzene         | 12.935 | 119  | 5110     | 0.46  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 12.991 | 105  | 6259     | 0.50  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.117 | 105  | 6963     | 0.48  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.235 | 119  | 5970     | 0.46  | ug/l   | 90       |
| 87) 1,3-Dichlorobenzene       | 13.233 | 146  | 3627     | 0.54  | ug/l   | 90       |
| 88) 1,4-Dichlorobenzene       | 13.308 | 146  | 4380m    | 0.63  | ug/l   |          |
| 89) n-Butylbenzene            | 13.568 | 91   | 4803m    | 0.45  | ug/l   |          |
| 90) Hexachloroethane          | 13.823 | 117  | 1449     | 0.62  | ug/l   | 65       |
| 91) 1,2-Dichlorobenzene       | 13.603 | 146  | 3406     | 0.51  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 14.863 | 180  | 2136     | 0.52  | ug/l # | 80       |
| 94) Hexachlorobutadiene       | 14.949 | 225  | 1182     | 0.53  | ug/l   | 88       |
| 95) Naphthalene               | 15.083 | 128  | 8953     | 0.72  | ug/l # | 89       |
| 96) 1,2,3-Trichlorobenzene    | 15.263 | 180  | 2815m    | 0.68  | ug/l   |          |

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