

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\  
 Data File : VN049779.D  
 Acq On : 12 Jul 2018 19:44  
 Operator : MD\SY  
 Sample : J3762-09 MDL 0.2ppb  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT3-2018

Manual Integrations  
 APPROVED

MMDadoda  
 7/13/2018 1:35:25 PM

Quant Time: Jul 13 04:38:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 12 15:51:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1058645  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1685548  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1454329  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 552606   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 668016   | 54.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.48% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 618984   | 48.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.44%  |      |
| 50) Toluene-d8            | 10.09  | 98  | 1893454  | 43.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.08%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 574739   | 37.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.00%  |      |

## Target Compounds

|                               |       |     |       |             |  | Qvalue |
|-------------------------------|-------|-----|-------|-------------|--|--------|
| 2) Dichlorodifluoromethane    | 1.85  | 85  | 2696  | Below Cal   |  | 97     |
| 3) Chloromethane              | 2.06  | 50  | 5740  | Below Cal   |  | 93     |
| 4) Vinyl Chloride             | 2.18  | 62  | 3977  | Below Cal   |  | 97     |
| 5) Bromomethane               | 2.57  | 94  | 5720  | Below Cal   |  | 92     |
| 7) Trichlorofluoromethane     | 3.02  | 101 | 4705  | 0.23 ug/l   |  | 97     |
| 8) Diethyl Ether              | 3.41  | 74  | 1500m | 0.21 ug/l   |  |        |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76  | 101 | 3432  | 0.26 ug/l # |  | 76     |
| 12) 1,1-Dichloroethene        | 3.73  | 96  | 2905m | 0.25 ug/l   |  |        |
| 14) Allyl chloride            | 4.33  | 41  | 4766m | 0.26 ug/l   |  |        |
| 15) Acrylonitrile             | 5.00  | 53  | 3868m | 0.94 ug/l   |  |        |
| 16) Acetone                   | 3.82  | 43  | 5904  | Below Cal   |  | 93     |
| 18) Methyl Acetate            | 4.34  | 43  | 14223 | 0.65 ug/l # |  | 68     |
| 20) Methylene Chloride        | 4.55  | 84  | 6447  | Below Cal # |  | 81     |
| 21) trans-1,2-Dichloroethene  | 5.03  | 96  | 2812m | 0.22 ug/l   |  |        |
| 23) Vinyl Acetate             | 5.91  | 43  | 21105 | 0.82 ug/l   |  | 95     |
| 25) 2-Butanone                | 6.83  | 43  | 6019m | 1.25 ug/l   |  |        |
| 26) 2,2-Dichloropropane       | 6.83  | 77  | 4465  | 0.22 ug/l # |  | 74     |
| 29) Tetrahydrofuran           | 7.22  | 42  | 4222  | 1.40 ug/l # |  | 54     |
| 30) Chloroform                | 7.38  | 83  | 5525  | 0.22 ug/l   |  | 95     |
| 31) Cyclohexane               | 7.67  | 56  | 22888 | 0.94 ug/l # |  | 1      |
| 32) 1,1,1-Trichloroethane     | 7.58  | 97  | 4524m | 0.21 ug/l   |  |        |
| 36) 1,1-Dichloropropene       | 7.79  | 75  | 4436  | 0.23 ug/l # |  | 72     |
| 38) Carbon Tetrachloride      | 7.77  | 117 | 5568m | 0.27 ug/l   |  |        |
| 41) Methacrylonitrile         | 7.20  | 41  | 1737m | 0.27 ug/l   |  |        |
| 42) 1,2-Dichloroethane        | 8.12  | 62  | 4010  | 0.21 ug/l   |  | 76     |
| 44) Trichloroethene           | 8.84  | 130 | 3428  | 0.22 ug/l   |  | 94     |
| 46) Dibromomethane            | 9.20  | 93  | 1977  | 0.21 ug/l # |  | 50     |
| 48) Methyl methacrylate       | 9.21  | 41  | 2349  | 0.23 ug/l # |  | 69     |
| 49) 1,4-Dioxane               | 9.21  | 88  | 495   | 3.66 ug/l # |  | 40     |
| 51) 4-Methyl-2-Pentanone      | 9.99  | 43  | 8144  | 0.73 ug/l   |  | 94     |
| 55) 1,1,2-Trichloroethane     | 10.57 | 97  | 5034  | Below Cal # |  | 62     |
| 57) 1,3-Dichloropropane       | 10.71 | 76  | 4503  | 0.20 ug/l # |  | 71     |
| 58) 2-Chloroethyl Vinyl ether | 9.70  | 63  | 5594  | 0.74 ug/l   |  | 91     |
| 59) 2-Hexanone                | 10.76 | 43  | 7256  | 0.97 ug/l   |  | 89     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 64) Tetrachloroethene          | 10.64 | 164  | 3103     | 0.23      | ug/l   | 90       |
| 65) Chlorobenzene              | 11.44 | 112  | 8538     | 0.23      | ug/l # | 88       |
| 68) m/p-Xylenes                | 11.63 | 106  | 7763     | 0.33      | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 2870     | Below Cal | #      | 93       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 2303m    | 0.23      | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 3398     | 0.28      | ug/l   | 95       |
| 78) n-propylbenzene            | 12.59 | 91   | 10676    | 0.21      | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 7125     | 0.22      | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 7579     | 0.21      | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 7019     | 0.22      | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 6857     | 0.21      | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 4984     | 0.24      | ug/l   | 89       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 6157m    | 0.30      | ug/l   |          |
| 90) Hexachloroethane           | 13.88 | 117  | 2299     | Below Cal |        | 63       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 4692     | 0.23      | ug/l   | 91       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 228      | Below Cal | #      | 56       |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 2296     | 3.08      | ug/l   | 94       |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 1280     | Below Cal |        | 79       |
| 95) Naphthalene                | 15.14 | 128  | 5068     | 4.22      | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 2683     | 0.27      | ug/l   | 92       |

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

