

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\  
 Data File : VN063450.D  
 Acq On : 18 Sep 2020 12:09  
 Operator : JC/MD  
 Sample : VN0918WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0918WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/21/2020 11:49:41 AM

Quant Time: Sep 21 01:48:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 290117   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 499467   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 459293   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 214385   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.98   | 65  | 222794   | 45.11 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.22% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 157078   | 45.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.86% |      |
| 50) Toluene-d8            | 10.06  | 98  | 608920   | 46.83 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.66% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 226809   | 47.59 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.18% |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 60125  | 18.293 | ug/l | 96     |
| 3) Chloromethane              | 2.04 | 50  | 72252  | 16.617 | ug/l | 99     |
| 4) Vinyl Chloride             | 2.16 | 62  | 70573  | 18.320 | ug/l | 98     |
| 5) Bromomethane               | 2.54 | 94  | 45362  | 19.832 | ug/l | 96     |
| 6) Chloroethane               | 2.67 | 64  | 42361  | 17.914 | ug/l | 93     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 107768 | 18.750 | ug/l | 100    |
| 8) Diethyl Ether              | 3.37 | 74  | 40488  | 18.070 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 59700  | 18.470 | ug/l | 99     |
| 10) Methyl Iodide             | 3.91 | 142 | 75101  | 17.846 | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.72 | 59  | 56263  | 82.236 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 59808  | 18.268 | ug/l | 97     |
| 13) Acrolein                  | 3.57 | 56  | 25305  | 99.806 | ug/l | 97     |
| 14) Allyl chloride            | 4.28 | 41  | 112892 | 17.432 | ug/l | 99     |
| 15) Acrylonitrile             | 4.93 | 53  | 151159 | 86.859 | ug/l | 99     |
| 16) Acetone                   | 3.77 | 43  | 131020 | 82.549 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.01 | 76  | 161391 | 16.947 | ug/l | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 71737  | 17.804 | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 213820 | 17.523 | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 71726  | 17.837 | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 63673  | 17.554 | ug/l | 95     |
| 22) Diisopropyl ether         | 5.90 | 45  | 232818 | 17.628 | ug/l | 95     |
| 23) Vinyl Acetate             | 5.84 | 43  | 959160 | 88.427 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 126992 | 17.612 | ug/l | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 205769 | 84.296 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 110523 | 17.409 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 74420  | 18.126 | ug/l | 99     |
| 28) Bromochloromethane        | 7.15 | 49  | 62058  | 18.639 | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 138800 | 83.255 | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 128139 | 17.712 | ug/l | 97     |
| 31) Cyclohexane               | 7.61 | 56  | 117131 | 17.173 | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 115365 | 17.929 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 97866  | 18.392 | ug/l | 98     |
| 37) Ethyl Acetate             | 6.88 | 43  | 88626  | 16.970 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 98060  | 18.053 | ug/l | 94     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 103519   | 17.925  | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 280725   | 18.481  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.14  | 41   | 48989m   | 20.856  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 113190   | 18.530  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 159828   | 17.115  | ug/l   | 100      |
| 44) Trichloroethene            | 8.80  | 130  | 69156    | 18.771  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 75308    | 18.203  | ug/l   | 98       |
| 46) Dibromomethane             | 9.17  | 93   | 50182    | 18.455  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 101525   | 17.973  | ug/l   | 95       |
| 48) Methyl methacrylate        | 9.16  | 41   | 74748    | 16.292  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 22648    | 343.986 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 464779   | 88.904  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 172103   | 18.845  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 113707   | 18.031  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 120901   | 18.175  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 66776    | 18.408  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 100095   | 17.675  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 118533   | 18.120  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 256735   | 86.422  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.72 | 43   | 332771   | 87.861  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 74293    | 18.128  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 68075    | 18.063  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.60 | 164  | 61629    | 19.706  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.41 | 112  | 179041   | 18.364  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 66222    | 18.530  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.48 | 91   | 339487   | 18.490  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.60 | 106  | 251296   | 37.961  | ug/l   | 96       |
| 69) o-Xylene                   | 11.92 | 106  | 119290   | 18.917  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 199853   | 18.899  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 46575    | 17.494  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 325010   | 18.918  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.05 | 43   | 139227   | 17.120  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 95477    | 17.949  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 91435m   | 17.231  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 73100    | 18.916  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.57 | 91   | 377613   | 18.872  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 221841   | 18.495  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 274571   | 19.166  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 32598    | 16.842  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 234814   | 18.528  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 221382   | 18.724  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 274382   | 18.962  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 295261   | 18.656  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 268112   | 19.207  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 133718   | 18.669  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 135872   | 18.658  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 243926   | 18.958  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 46607    | 17.534  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 131868   | 18.752  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 21075    | 16.638  | ug/l   | 97       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 75662    | 18.251 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 34339    | 20.008 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 238754   | 17.432 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 71160    | 17.765 | ug/l  | 98       |

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

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