

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\  
 Data File : VN059904.D  
 Acq On : 29 Jan 2020 12:03  
 Operator : JC/MD  
 Sample : VN0129WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0129WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 1/30/2020 10:22:13 AM

Quant Time: Jan 30 00:23:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 18 03:09:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 193544   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 297392   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 268547   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 125985   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.00   | 65  | 106735   | 49.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.32%  |      |
| 35) Dibromofluoromethane  | 7.56   | 113 | 89573    | 50.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.02% |      |
| 50) Toluene-d8            | 10.08  | 98  | 333532   | 48.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.08%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 119053   | 48.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.12%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 39318  | 16.884  | ug/l   | 95     |
| 3) Chloromethane              | 2.04 | 50  | 36869  | 16.639  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.17 | 62  | 47482  | 18.728  | ug/l   | 98     |
| 5) Bromomethane               | 2.54 | 94  | 29446  | 19.032  | ug/l   | 99     |
| 6) Chloroethane               | 2.69 | 64  | 23433  | 19.536  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 58241  | 19.128  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.38 | 74  | 22154  | 20.733  | ug/l   | 78     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 34616  | 20.427  | ug/l   | 93     |
| 10) Methyl Iodide             | 3.93 | 142 | 52106  | 19.023  | ug/l   | 94     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 32975  | 91.133  | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 32644  | 18.435  | ug/l   | 89     |
| 13) Acrolein                  | 3.58 | 56  | 16367  | 63.900  | ug/l   | 96     |
| 14) Allyl chloride            | 4.29 | 41  | 45588  | 19.101  | ug/l # | 87     |
| 15) Acrylonitrile             | 4.94 | 53  | 80969  | 98.100  | ug/l   | 99     |
| 16) Acetone                   | 3.78 | 43  | 94008  | 123.157 | ug/l   | 94     |
| 17) Carbon Disulfide          | 4.03 | 76  | 82112  | 16.278  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.29 | 43  | 49833  | 19.849  | ug/l # | 91     |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 118567 | 20.537  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.53 | 84  | 38212  | 18.844  | ug/l   | 87     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96  | 35540  | 18.882  | ug/l   | 84     |
| 22) Diisopropyl ether         | 5.91 | 45  | 105603 | 19.524  | ug/l # | 93     |
| 23) Vinyl Acetate             | 5.86 | 43  | 374220 | 89.362  | ug/l # | 94     |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 64371  | 19.478  | ug/l   | 96     |
| 25) 2-Butanone                | 6.80 | 43  | 111051 | 91.237  | ug/l # | 88     |
| 26) 2,2-Dichloropropane       | 6.79 | 77  | 60975  | 19.191  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 6.80 | 96  | 43715  | 20.192  | ug/l   | 87     |
| 28) Bromochloromethane        | 7.17 | 49  | 24078  | 18.228  | ug/l # | 70     |
| 29) Tetrahydrofuran           | 7.18 | 42  | 67550  | 89.698  | ug/l # | 87     |
| 30) Chloroform                | 7.35 | 83  | 69060  | 20.168  | ug/l   | 99     |
| 31) Cyclohexane               | 7.63 | 56  | 54843  | 17.246  | ug/l # | 83     |
| 32) 1,1,1-Trichloroethane     | 7.54 | 97  | 62579  | 19.765  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 7.77 | 75  | 48655  | 18.787  | ug/l   | 95     |
| 37) Ethyl Acetate             | 6.90 | 43  | 45135  | 18.582  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 55204  | 19.596  | ug/l   | 97     |

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 Sample : VN0129WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0129WBSD01

Manual Integrations  
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MMDadoda  
 1/30/2020 10:22:13 AM

Quant Time: Jan 30 00:23:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 18 03:09:32 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.06  | 83   | 58443    | 18.302  | ug/l   | 91       |
| 40) Benzene                    | 8.02  | 78   | 148423   | 19.217  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.15  | 41   | 21360m   | 17.853  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.10  | 62   | 54195    | 20.695  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.14  | 43   | 77903    | 18.646  | ug/l # | 95       |
| 44) Trichloroethene            | 8.82  | 130  | 44453    | 21.083  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.10  | 63   | 38888    | 20.347  | ug/l   | 97       |
| 46) Dibromomethane             | 9.19  | 93   | 28093    | 20.837  | ug/l   | 91       |
| 47) Bromodichloromethane       | 9.39  | 83   | 55643    | 20.481  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.18  | 41   | 32773    | 17.537  | ug/l # | 85       |
| 49) 1,4-Dioxane                | 9.18  | 88   | 13416    | 392.154 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 222445   | 92.103  | ug/l   | 95       |
| 52) Toluene                    | 10.14 | 92   | 96957    | 19.874  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 60072    | 19.802  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.82  | 75   | 64466    | 20.197  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 40350    | 20.883  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 54808    | 18.563  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 63705    | 20.767  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.68  | 63   | 84259    | 94.749  | ug/l # | 89       |
| 59) 2-Hexanone                 | 10.74 | 43   | 164443   | 92.422  | ug/l   | 93       |
| 60) Dibromochloromethane       | 10.89 | 129  | 44939    | 20.424  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.99 | 107  | 41523    | 20.503  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.62 | 164  | 52109    | 23.808  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.43 | 112  | 107179   | 20.305  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 42071    | 20.628  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 188942   | 19.719  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.62 | 106  | 143597   | 39.673  | ug/l   | 93       |
| 69) o-Xylene                   | 11.94 | 106  | 69741    | 19.681  | ug/l   | 95       |
| 70) Styrene                    | 11.96 | 104  | 111647   | 18.829  | ug/l   | 98       |
| 71) Bromoform                  | 12.12 | 173  | 33517    | 20.516  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.25 | 105  | 186589   | 20.194  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 62425    | 17.411  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 52469    | 19.588  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 50142m   | 23.650  | ug/l   |          |
| 77) Bromobenzene               | 12.52 | 156  | 48329    | 20.655  | ug/l   | 81       |
| 78) n-propylbenzene            | 12.59 | 91   | 207142   | 19.974  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 123324   | 19.989  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 156685   | 20.164  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 18952    | 19.196  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 126166   | 20.389  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 134438   | 20.004  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 155937   | 20.284  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 175161   | 19.838  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 162662   | 19.909  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 84247    | 20.728  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 83020    | 20.475  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.61 | 91   | 136202   | 19.552  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.87 | 117  | 29740    | 19.455  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 81508    | 20.285  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 11220    | 18.187  | ug/l   | 87       |

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Sample : VN0129WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
VN0129WBSD01

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1/30/2020 10:22:13 AM

Quant Time: Jan 30 00:23:58 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 18 03:09:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 48689    | 20.166 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 26068    | 19.593 | ug/l  | 97       |
| 95) Naphthalene            | 15.13 | 128  | 128239   | 18.673 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 46893    | 19.953 | ug/l  | 98       |

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

