

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120120\  
 Data File : VN064877.D  
 Acq On : 1 Dec 2020 13:03  
 Operator : JC/MD  
 Sample : VN1201WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1201WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 12/2/2020 12:43:25 PM

Quant Time: Dec 02 00:29:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 198764   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 305138   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 276274   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 137534   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |                |     |            |         |      |      |
|---------------------------|----------------|-----|------------|---------|------|------|
| 33) 1,2-Dichloroethane-d4 | 7.98           | 65  | 114022     | 49.34   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 61 - 141 |     | Recovery = | 98.68%  |      |      |
| 35) Dibromofluoromethane  | 7.55           | 113 | 94290      | 51.64   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 69 - 133 |     | Recovery = | 103.28% |      |      |
| 50) Toluene-d8            | 10.06          | 98  | 371877     | 49.85   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 65 - 126 |     | Recovery = | 99.70%  |      |      |
| 62) 4-Bromofluorobenzene  | 12.37          | 95  | 131835     | 49.38   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 58 - 135 |     | Recovery = | 98.76%  |      |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 28629  | 16.619 | ug/l | 98     |
| 3) Chloromethane              | 2.04 | 50  | 36139  | 16.144 | ug/l | 97     |
| 4) Vinyl Chloride             | 2.16 | 62  | 38661  | 16.565 | ug/l | 97     |
| 5) Bromomethane               | 2.53 | 94  | 25264  | 16.499 | ug/l | 99     |
| 6) Chloroethane               | 2.67 | 64  | 25031  | 17.340 | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 56190  | 17.417 | ug/l | 100    |
| 8) Diethyl Ether              | 3.37 | 74  | 22870  | 17.959 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 35170  | 18.173 | ug/l | 98     |
| 10) Methyl Iodide             | 3.90 | 142 | 39302  | 15.656 | ug/l | 97     |
| 11) Tert butyl alcohol        | 4.75 | 59  | 31717  | 88.012 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 33549  | 17.406 | ug/l | 96     |
| 13) Acrolein                  | 3.56 | 56  | 20823  | 94.599 | ug/l | 98     |
| 14) Allyl chloride            | 4.27 | 41  | 54789  | 17.235 | ug/l | 98     |
| 15) Acrylonitrile             | 4.94 | 53  | 92955  | 93.372 | ug/l | 98     |
| 16) Acetone                   | 3.77 | 43  | 72570  | 95.536 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.00 | 76  | 85051  | 17.094 | ug/l | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 44810  | 19.621 | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 111198 | 17.988 | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 41277  | 17.341 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 38029  | 17.767 | ug/l | 99     |
| 22) Diisopropyl ether         | 5.91 | 45  | 118948 | 18.694 | ug/l | 98     |
| 23) Vinyl Acetate             | 5.84 | 43  | 467989 | 91.974 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 69446  | 18.262 | ug/l | 99     |
| 25) 2-Butanone                | 6.79 | 43  | 117739 | 95.616 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 56199  | 17.040 | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 43716  | 18.151 | ug/l | 97     |
| 28) Bromochloromethane        | 7.15 | 49  | 31142  | 17.901 | ug/l | 93     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 78114  | 91.898 | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 72098  | 18.385 | ug/l | 95     |
| 31) Cyclohexane               | 7.61 | 56  | 54085  | 16.793 | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 61776  | 18.342 | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 51420  | 18.180 | ug/l | 99     |
| 37) Ethyl Acetate             | 6.89 | 43  | 49756  | 18.263 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 54546  | 18.535 | ug/l | 98     |

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 Sample : VN1201WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1201WBSD01

Manual Integrations  
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MMDadoda  
 12/2/2020 12:43:25 PM

Quant Time: Dec 02 00:29:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.04  | 83   | 52582    | 17.270  | ug/l   | 98       |
| 40) Benzene                    | 8.00  | 78   | 157679   | 18.193  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.12  | 41   | 21402    | 17.025  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 52037    | 17.798  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 79573    | 18.151  | ug/l # | 91       |
| 44) Trichloroethene            | 8.80  | 130  | 45962    | 17.973  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 42586    | 18.974  | ug/l   | 95       |
| 46) Dibromomethane             | 9.17  | 93   | 28654    | 19.110  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 57156    | 18.944  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.16  | 41   | 39374    | 18.796  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 15041    | 379.897 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 250897   | 95.330  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 99150    | 18.576  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 60597    | 18.033  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 67024    | 18.608  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 41444    | 18.883  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 54512    | 17.998  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 68729    | 18.983  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 154850   | 92.945  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 177692   | 93.812  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.87 | 129  | 45603    | 18.692  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.97 | 107  | 41647    | 18.677  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.60 | 164  | 52191    | 19.417  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.41 | 112  | 108688   | 18.320  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 41047    | 18.826  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.48 | 91   | 180547   | 18.216  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.59 | 106  | 142720   | 38.033  | ug/l   | 97       |
| 69) o-Xylene                   | 11.92 | 106  | 65561    | 18.411  | ug/l   | 98       |
| 70) Styrene                    | 11.94 | 104  | 112803   | 18.765  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 31928    | 18.334  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 175935   | 18.391  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.04 | 43   | 67460    | 17.919  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 52060    | 18.567  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 49455m   | 16.697  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 46782    | 18.139  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.56 | 91   | 201964   | 18.532  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 122900   | 18.244  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 151683   | 19.076  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 18570    | 17.183  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 129720   | 18.371  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 123711   | 18.561  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 152767   | 19.002  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 167706   | 18.951  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 154854   | 19.221  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 83375    | 18.195  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 84226    | 17.381  | ug/l   | 96       |
| 89) n-Butylbenzene             | 13.59 | 91   | 125805   | 17.781  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 26484    | 18.923  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 81942    | 18.212  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 10819    | 17.148  | ug/l   | 97       |

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

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1201WBSD01

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Quant Time: Dec 02 00:29:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 23 13:54:12 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 47164    | 16.946 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 23991    | 19.372 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 138557   | 16.617 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 46148    | 18.354 | ug/l  | 99       |

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

