

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033020\  
 Data File : VN060762.D  
 Acq On : 30 Mar 2020 11:52  
 Operator : JC/MD  
 Sample : VN0330WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0330WBS01

Quant Time: Mar 31 08:13:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 208034   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 337521   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 306591   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 143368   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 135135   | 47.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 94.64%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 102212   | 50.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.16% |          |
| 50) Toluene-d8              | 10.08 | 98   | 402376   | 48.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 96.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 146129   | 47.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 95.66%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85   | 36690    | 18.227  | ug/l  | 97     |
| 3) Chloromethane              | 2.04 | 50   | 63168    | 16.802  | ug/l  | 99     |
| 4) Vinyl Chloride             | 2.17 | 62   | 49843    | 16.951  | ug/l  | 100    |
| 5) Bromomethane               | 2.55 | 94   | 25052    | 19.736  | ug/l  | 97     |
| 6) Chloroethane               | 2.69 | 64   | 31005    | 18.304  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 3.00 | 101  | 66743    | 18.426  | ug/l  | 96     |
| 8) Diethyl Ether              | 3.38 | 74   | 27314    | 18.771  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101  | 40624    | 19.355  | ug/l  | 100    |
| 10) Methyl Iodide             | 3.93 | 142  | 35584    | 19.053  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 4.72 | 59   | 41597    | 99.040  | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 3.71 | 96   | 40910    | 18.163  | ug/l  | 98     |
| 13) Acrolein                  | 3.57 | 56   | 41208    | 88.527  | ug/l  | 99     |
| 14) Allyl chloride            | 4.29 | 41   | 74040    | 18.690  | ug/l  | 96     |
| 15) Acrylonitrile             | 4.94 | 53   | 117811   | 95.389  | ug/l  | 100    |
| 16) Acetone                   | 3.78 | 43   | 115305   | 113.983 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.03 | 76   | 118610   | 17.315  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.28 | 43   | 55221    | 19.394  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.00 | 73   | 144362   | 18.642  | ug/l  | 97     |
| 20) Methylene Chloride        | 4.52 | 84   | 45423    | 18.253  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96   | 44267    | 18.441  | ug/l  | 93     |
| 22) Diisopropyl ether         | 5.91 | 45   | 162815   | 19.454  | ug/l  | 99     |
| 23) Vinyl Acetate             | 5.86 | 43   | 669770   | 98.083  | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 5.81 | 63   | 87644    | 19.210  | ug/l  | 99     |
| 25) 2-Butanone                | 6.79 | 43   | 162298   | 99.148  | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 6.79 | 77   | 74602    | 20.782  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 6.80 | 96   | 49647    | 18.200  | ug/l  | 95     |
| 28) Bromochloromethane        | 7.17 | 49   | 41955    | 19.220  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 7.18 | 42   | 107794   | 93.071  | ug/l  | 98     |
| 30) Chloroform                | 7.34 | 83   | 82363    | 18.831  | ug/l  | 100    |
| 31) Cyclohexane               | 7.63 | 56   | 83673    | 18.191  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 7.54 | 97   | 70299    | 18.644  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 7.77 | 75   | 64038    | 19.594  | ug/l  | 100    |
| 37) Ethyl Acetate             | 6.89 | 43   | 68231    | 19.321  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.75 | 117  | 54767    | 18.697  | ug/l  | 97     |

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 Sample : VN0330WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0330WBS01

Quant Time: Mar 31 08:13:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.06  | 83   | 78210    | 20.137  | ug/l   | 98       |
| 40) Benzene                    | 8.02  | 78   | 193142   | 19.576  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.14  | 41   | 28647m   | 19.008  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.10  | 62   | 66583    | 19.747  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.14  | 43   | 112900   | 19.385  | ug/l   | 99       |
| 44) Trichloroethene            | 8.82  | 130  | 48750    | 19.601  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.10  | 63   | 52388    | 20.123  | ug/l   | 99       |
| 46) Dibromomethane             | 9.19  | 93   | 30491    | 19.373  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.38  | 83   | 63609    | 19.449  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.18  | 41   | 48476    | 18.695  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.18  | 88   | 14690    | 476.625 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 325044   | 98.079  | ug/l   | 99       |
| 52) Toluene                    | 10.14 | 92   | 113863   | 19.110  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 75376    | 20.064  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.82  | 75   | 80688    | 19.578  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 44900    | 19.587  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 66558    | 18.622  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 77545    | 19.494  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.68  | 63   | 155405   | 87.482  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.74 | 43   | 232477   | 97.380  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.89 | 129  | 45780    | 19.334  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.99 | 107  | 44242    | 19.194  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.62 | 164  | 46136    | 19.123  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.42 | 112  | 117729   | 19.370  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 42886    | 19.488  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.50 | 91   | 219050   | 19.380  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.61 | 106  | 160669   | 38.253  | ug/l   | 98       |
| 69) o-Xylene                   | 11.94 | 106  | 76929    | 19.186  | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 122540   | 18.687  | ug/l   | 100      |
| 71) Bromoform                  | 12.12 | 173  | 31306    | 18.222  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.24 | 105  | 210355   | 19.551  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.06 | 43   | 93175    | 18.741  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 62243    | 19.130  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 52898m   | 17.099  | ug/l   |          |
| 77) Bromobenzene               | 12.52 | 156  | 49232    | 18.989  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 245373   | 19.304  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 144689   | 19.051  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 176204   | 19.298  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.29 | 75   | 22593    | 18.757  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 148121   | 19.148  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 148429   | 19.610  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 175484   | 19.427  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 201846   | 19.832  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 180518   | 19.724  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 87806    | 19.203  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 87023    | 18.943  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.61 | 91   | 165298   | 20.004  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 26986    | 20.285  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 85564    | 19.570  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 12376    | 17.989  | ug/l   | 96       |

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Sample : VN0330WBS01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0330WBS01

Quant Time: Mar 31 08:13:13 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.90 | 180  | 51985    | 19.361 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 27099    | 20.588 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 147630   | 18.280 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 50279    | 19.012 | ug/l  | 100      |

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

