

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012720\  
 Data File : VN059865.D  
 Acq On : 27 Jan 2020 12:11  
 Operator : JC/MD  
 Sample : VN0127WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0127WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/28/2020 9:24:28 AM

Quant Time: Jan 27 14:39:45 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  | 207773   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 313780   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 284788   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 134275   | 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   | 119935   | 51.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.96% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 103415   | 55.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.54% |          |
| 50) Toluene-d8              | 10.08 | 98   | 382914   | 52.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.64% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 135675   | 51.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.82% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85   | 46624    | 18.706  | ug/l   | 99     |
| 3) Chloromethane              | 2.04 | 50   | 42675    | 17.940  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.17 | 62   | 55305    | 20.320  | ug/l   | 98     |
| 5) Bromomethane               | 2.54 | 94   | 33865    | 20.389  | ug/l   | 98     |
| 6) Chloroethane               | 2.68 | 64   | 26404    | 20.506  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.00 | 101  | 68035    | 20.815  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.38 | 74   | 23956    | 20.884  | ug/l   | 78     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101  | 39366    | 21.639  | ug/l   | 92     |
| 10) Methyl Iodide             | 3.93 | 142  | 56660    | 19.269  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 4.73 | 59   | 38583    | 99.330  | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 3.72 | 96   | 37744    | 19.856  | ug/l   | 86     |
| 13) Acrolein                  | 3.58 | 56   | 17571    | 63.903  | ug/l   | 96     |
| 14) Allyl chloride            | 4.29 | 41   | 49460    | 19.304  | ug/l # | 83     |
| 15) Acrylonitrile             | 4.94 | 53   | 89900    | 101.462 | ug/l   | 98     |
| 16) Acetone                   | 3.78 | 43   | 90641    | 109.552 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.03 | 76   | 95758    | 17.684  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.29 | 43   | 53980    | 20.028  | ug/l # | 90     |
| 19) Methyl tert-butyl Ether   | 5.00 | 73   | 127284   | 20.537  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.52 | 84   | 42312    | 19.479  | ug/l   | 87     |
| 21) trans-1,2-Dichloroethene  | 5.00 | 96   | 40338    | 19.963  | ug/l   | 87     |
| 22) Diisopropyl ether         | 5.91 | 45   | 115420   | 19.878  | ug/l # | 94     |
| 23) Vinyl Acetate             | 5.86 | 43   | 443008   | 98.543  | ug/l # | 94     |
| 24) 1,1-Dichloroethane        | 5.82 | 63   | 70883    | 19.979  | ug/l   | 97     |
| 25) 2-Butanone                | 6.80 | 43   | 121210   | 92.764  | ug/l   | 90     |
| 26) 2,2-Dichloropropane       | 6.79 | 77   | 68807    | 20.173  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 6.80 | 96   | 48309    | 20.786  | ug/l   | 87     |
| 28) Bromochloromethane        | 7.17 | 49   | 30889    | 21.783  | ug/l # | 72     |
| 29) Tetrahydrofuran           | 7.18 | 42   | 75979    | 93.981  | ug/l # | 86     |
| 30) Chloroform                | 7.34 | 83   | 77633    | 21.119  | ug/l   | 97     |
| 31) Cyclohexane               | 7.63 | 56   | 61974    | 18.153  | ug/l   | 88     |
| 32) 1,1,1-Trichloroethane     | 7.54 | 97   | 70351    | 20.698  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 7.77 | 75   | 55465    | 20.298  | ug/l   | 96     |
| 37) Ethyl Acetate             | 6.89 | 43   | 49203    | 19.199  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 7.75 | 117  | 63108    | 21.231  | ug/l   | 98     |

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Quant Time: Jan 27 14:39:45 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   | 66589    | 19.764  | ug/l   | 91       |
| 40) Benzene                    | 8.02  | 78   | 165701   | 20.333  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.14  | 41   | 19226m   | 15.230  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.10  | 62   | 59214    | 21.431  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.14  | 43   | 84521    | 19.174  | ug/l # | 93       |
| 44) Trichloroethene            | 8.82  | 130  | 48874    | 21.969  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.10  | 63   | 42678    | 21.164  | ug/l   | 99       |
| 46) Dibromomethane             | 9.19  | 93   | 30468    | 21.419  | ug/l   | 91       |
| 47) Bromodichloromethane       | 9.38  | 83   | 61685    | 21.519  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.18  | 41   | 36258    | 18.388  | ug/l   | 85       |
| 49) 1,4-Dioxane                | 9.18  | 88   | 15249    | 422.453 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 244828   | 96.077  | ug/l   | 94       |
| 52) Toluene                    | 10.14 | 92   | 108710   | 21.119  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 66779    | 20.864  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.82  | 75   | 71529    | 21.239  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 44064    | 21.614  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 60074    | 19.284  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 69193    | 21.378  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.68  | 63   | 102337   | 109.067 | ug/l # | 90       |
| 59) 2-Hexanone                 | 10.74 | 43   | 178370   | 95.014  | ug/l   | 94       |
| 60) Dibromochloromethane       | 10.89 | 129  | 50640    | 21.813  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 45416    | 21.254  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.62 | 164  | 52076    | 22.436  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.43 | 112  | 117705   | 21.028  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 46828    | 21.651  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.50 | 91   | 209460   | 20.613  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.61 | 106  | 158239   | 41.225  | ug/l   | 93       |
| 69) o-Xylene                   | 11.94 | 106  | 77478    | 20.618  | ug/l   | 93       |
| 70) Styrene                    | 11.96 | 104  | 124419   | 19.786  | ug/l   | 97       |
| 71) Bromoform                  | 12.12 | 173  | 37046    | 21.383  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.24 | 105  | 207825   | 21.104  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 71241    | 18.644  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 59153    | 20.720  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 53473m   | 23.664  | ug/l   |          |
| 77) Bromobenzene               | 12.52 | 156  | 52390    | 21.008  | ug/l   | 82       |
| 78) n-propylbenzene            | 12.59 | 91   | 229000   | 20.718  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 135813   | 20.655  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 172667   | 20.849  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 20859    | 19.823  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 137369   | 20.828  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 149087   | 20.814  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 13.03 | 105  | 174045   | 21.242  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 196539   | 20.884  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 182824   | 20.995  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 92363    | 21.322  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 90520    | 20.947  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.61 | 91   | 153355   | 20.655  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 33175    | 20.362  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 90127    | 21.045  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 12296    | 18.762  | ug/l   | 82       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 52187    | 20.280 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 30173    | 21.278 | ug/l  | 100      |
| 95) Naphthalene            | 15.13 | 128  | 133199   | 18.198 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 50132    | 20.015 | ug/l  | 99       |

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

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