

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092719\  
 Data File : VN058400.D  
 Acq On : 27 Sep 2019 11:33  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 9/30/2019 10:18:29 AM

Quant Time: Sep 27 23:36:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 27 23:01:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 460224   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 774797   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 675153   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 289291   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 33584    | 5.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 10.38% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 21924    | 4.65 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.30%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 88594    | 4.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.68%  |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 30869    | 4.55 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.10%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85   | 25852    | 6.374  | ug/l   | 99     |
| 3) Chloromethane              | 2.03 | 50   | 27588    | 6.988  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.17 | 62   | 27776    | 6.881  | ug/l   | 100    |
| 5) Bromomethane               | 2.52 | 94   | 15063    | 7.309  | ug/l   | 95     |
| 6) Chloroethane               | 2.67 | 64   | 17399    | 6.653  | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 2.99 | 101  | 33382    | 6.063  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.39 | 74   | 14899    | 6.023  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101  | 22831    | 5.838  | ug/l   | 95     |
| 10) Methyl Iodide             | 3.93 | 142  | 20000    | 5.615  | ug/l # | 93     |
| 11) Tert butyl alcohol        | 4.77 | 59   | 19154m   | 25.167 | ug/l   |        |
| 12) 1,1-Dichloroethene        | 3.71 | 96   | 22489    | 6.550  | ug/l   | 98     |
| 13) Acrolein                  | 3.58 | 56   | 5729     | 42.907 | ug/l   | 93     |
| 14) Allyl chloride            | 4.30 | 41   | 38623    | 5.957  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.96 | 53   | 54356    | 26.296 | ug/l   | 97     |
| 16) Acetone                   | 3.80 | 43   | 59184    | 26.541 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.03 | 76   | 53534    | 8.635  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.30 | 43   | 29250    | 5.074  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.02 | 73   | 78149    | 5.437  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.53 | 84   | 27784    | 6.222  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96   | 24813    | 6.663  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.92 | 45   | 84176    | 5.323  | ug/l # | 84     |
| 23) Vinyl Acetate             | 5.87 | 43   | 323933   | 29.131 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.82 | 63   | 49008    | 5.711  | ug/l   | 98     |
| 25) 2-Butanone                | 6.82 | 43   | 79512    | 26.388 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 6.80 | 77   | 38606    | 5.319  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96   | 29109    | 5.963  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.18 | 49   | 17234    | 4.424  | ug/l # | 100    |
| 29) Tetrahydrofuran           | 7.19 | 42   | 50163    | 26.748 | ug/l   | 99     |
| 30) Chloroform                | 7.35 | 83   | 49543    | 5.432  | ug/l   | 97     |
| 31) Cyclohexane               | 7.64 | 56   | 55642    | 8.084  | ug/l # | 88     |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97   | 39384    | 5.599  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.78 | 75   | 37849    | 6.322  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.91 | 43   | 31544    | 5.313  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 7.76 | 117  | 33166    | 5.640  | ug/l   | 97     |

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 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDIC005

Manual Integrations  
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Quant Time: Sep 27 23:36:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 27 23:01:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.07  | 83   | 43975    | 6.799  | ug/l   | 96       |
| 40) Benzene                    | 8.03  | 78   | 111000   | 6.181  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.16  | 41   | 13643m   | 4.864  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.11  | 62   | 42969    | 5.811  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.15  | 43   | 57886    | 5.249  | ug/l   | 98       |
| 44) Trichloroethene            | 8.82  | 130  | 26273    | 5.967  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 28344    | 5.423  | ug/l   | 100      |
| 46) Dibromomethane             | 9.20  | 93   | 18507    | 5.777  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.39  | 83   | 32219    | 4.886  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.19  | 41   | 26631    | 5.326  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.19  | 88   | 6882     | 86.751 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 156951   | 27.093 | ug/l   | 98       |
| 52) Toluene                    | 10.15 | 92   | 67017    | 5.997  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 32713    | 4.775  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 38592    | 5.089  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 24977    | 5.212  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 34417    | 4.943  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 45124    | 5.434  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 69981    | 21.960 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 111104   | 25.888 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 19957    | 4.326  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 24396    | 5.383  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 22543    | 6.449  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.43 | 112  | 69369    | 5.669  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 21283    | 4.872  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.51 | 91   | 124155   | 5.873  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 91682    | 11.500 | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 44165    | 5.663  | ug/l   | 100      |
| 70) Styrene                    | 11.97 | 104  | 67808    | 5.102  | ug/l   | 98       |
| 71) Bromoform                  | 12.13 | 173  | 11978    | 4.355  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 115445   | 6.167  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.08 | 43   | 42442    | 5.484  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 33562    | 5.493  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 29407m   | 5.600  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 25988    | 5.567  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.60 | 91   | 128548   | 6.038  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 77695    | 5.872  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 94201    | 5.970  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.31 | 75   | 7089     | 4.389  | ug/l   | 86       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 77761    | 5.620  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.00 | 119  | 81312    | 5.834  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.05 | 105  | 93157    | 5.929  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.18 | 105  | 101927   | 5.593  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.30 | 119  | 90437    | 5.594  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 44988    | 5.314  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 46752    | 5.425  | ug/l   | 91       |
| 89) n-Butylbenzene             | 13.62 | 91   | 79933    | 5.288  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 11916    | 4.761  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 45573    | 5.413  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 5306     | 4.834  | ug/l   | 90       |

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Sample : VSTDICC005  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Manual Integrations  
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9/30/2019 10:18:29 AM

Quant Time: Sep 27 23:36:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 27 23:01:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.92 | 180  | 21298    | 4.021 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 15.02 | 225  | 12610    | 4.917 | ug/l  | 98       |
| 95) Naphthalene            | 15.14 | 128  | 49678    | 3.627 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 18613    | 3.741 | ug/l  | 96       |

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

