

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050120\  
 Data File : VN061248.D  
 Acq On : 2 May 2020 2:43  
 Operator : JC/MD  
 Sample : VN0501WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0501WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 5/4/2020 2:58:09 PM

Quant Time: May 04 07:27:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 29 08:14:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 90554    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 165502   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 154712   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 69771    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.98   | 65  | 82769    | 57.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 115.54% |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 51641    | 52.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.54% |      |
| 50) Toluene-d8            | 10.06  | 98  | 200822   | 50.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.68% |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 72880    | 48.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.08%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 15375  | 16.011  | ug/l | 96     |
| 3) Chloromethane              | 2.03 | 50  | 27633  | 23.760  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.16 | 62  | 26110  | 19.766  | ug/l | 99     |
| 5) Bromomethane               | 2.54 | 94  | 12873  | 19.715  | ug/l | 96     |
| 6) Chloroethane               | 2.67 | 64  | 17302  | 20.665  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 29332  | 19.682  | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 16322  | 26.257  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 17253  | 17.970  | ug/l | 98     |
| 10) Methyl Iodide             | 3.90 | 142 | 24462  | 19.826  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.72 | 59  | 19324  | 100.677 | ug/l | 95     |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 18147  | 18.994  | ug/l | 96     |
| 13) Acrolein                  | 3.56 | 56  | 9637   | 75.342  | ug/l | 96     |
| 14) Allyl chloride            | 4.27 | 41  | 43936  | 24.801  | ug/l | 95     |
| 15) Acrylonitrile             | 4.92 | 53  | 69346  | 117.694 | ug/l | 99     |
| 16) Acetone                   | 3.77 | 43  | 62496  | 109.677 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.00 | 76  | 50365  | 19.083  | ug/l | 99     |
| 18) Methyl Acetate            | 4.27 | 43  | 38350  | 21.594  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 4.98 | 73  | 83885  | 22.977  | ug/l | 96     |
| 20) Methylene Chloride        | 4.50 | 84  | 25699  | 23.001  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 21694  | 20.852  | ug/l | 96     |
| 22) Diisopropyl ether         | 5.89 | 45  | 98854  | 24.064  | ug/l | 94     |
| 23) Vinyl Acetate             | 5.84 | 43  | 385636 | 116.588 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 47233  | 22.006  | ug/l | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 92556  | 109.164 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 28329  | 15.670  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 26243  | 21.495  | ug/l | 97     |
| 28) Bromochloromethane        | 7.15 | 49  | 25096  | 24.669  | ug/l | 96     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 64266  | 112.523 | ug/l | 97     |
| 30) Chloroform                | 7.33 | 83  | 46554  | 21.403  | ug/l | 96     |
| 31) Cyclohexane               | 7.61 | 56  | 34096  | 16.357  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 34608  | 18.272  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 28921  | 17.456  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.87 | 43  | 41293  | 21.260  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 23704  | 17.251  | ug/l | 98     |

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 Sample : VN0501WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0501WBS02

Manual Integrations  
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MMDadoda  
 5/4/2020 2:58:09 PM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 29 08:14:26 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 39) Methylcyclohexane          | 9.04  | 83   | 27362    | 14.727  | ug/l   | 96       |
| 40) Benzene                    | 8.00  | 78   | 99055    | 20.068  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.12  | 41   | 19483    | 24.160  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 40626    | 21.726  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 68163    | 21.146  | ug/l   | 100      |
| 44) Trichloroethene            | 8.80  | 130  | 23181    | 17.373  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 28049    | 21.271  | ug/l   | 98       |
| 46) Dibromomethane             | 9.17  | 93   | 17546    | 21.490  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 37588    | 21.448  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.16  | 41   | 30807    | 21.179  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 6130     | 371.264 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 200190   | 105.510 | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 56370    | 18.960  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 39253    | 19.878  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 42316    | 20.270  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 24961    | 21.049  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 36956    | 19.635  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 45247    | 21.707  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 92944    | 96.828  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 140170   | 101.546 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 25219    | 20.305  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 24833    | 20.893  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 21491    | 16.038  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.40 | 112  | 58593    | 19.092  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 22038    | 20.063  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 100818   | 17.549  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 74652    | 35.500  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 36078    | 17.861  | ug/l   | 97       |
| 70) Styrene                    | 11.94 | 104  | 60881    | 18.008  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 16465    | 20.396  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 92818    | 18.096  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.04 | 43   | 53696    | 20.674  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 36274    | 22.680  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 33783m   | 22.967  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 23555    | 19.894  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.56 | 91   | 109864   | 18.058  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 68619    | 19.189  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 78367    | 18.460  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 10884    | 18.790  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 72469    | 19.228  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 61801    | 17.265  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 80257    | 18.350  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 85218    | 17.461  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 76288    | 17.350  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 41266    | 18.932  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 42348    | 19.015  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 67111    | 16.649  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.85 | 117  | 8618     | 23.550  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 41513    | 19.863  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 6743     | 19.962  | ug/l   | 98       |

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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 39 Sample Multiplier: 1

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ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Wed Apr 29 08:14:26 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 23221    | 18.245 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 9431     | 17.738 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 75392    | 18.189 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 23717    | 18.875 | ug/l  | 100      |

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

