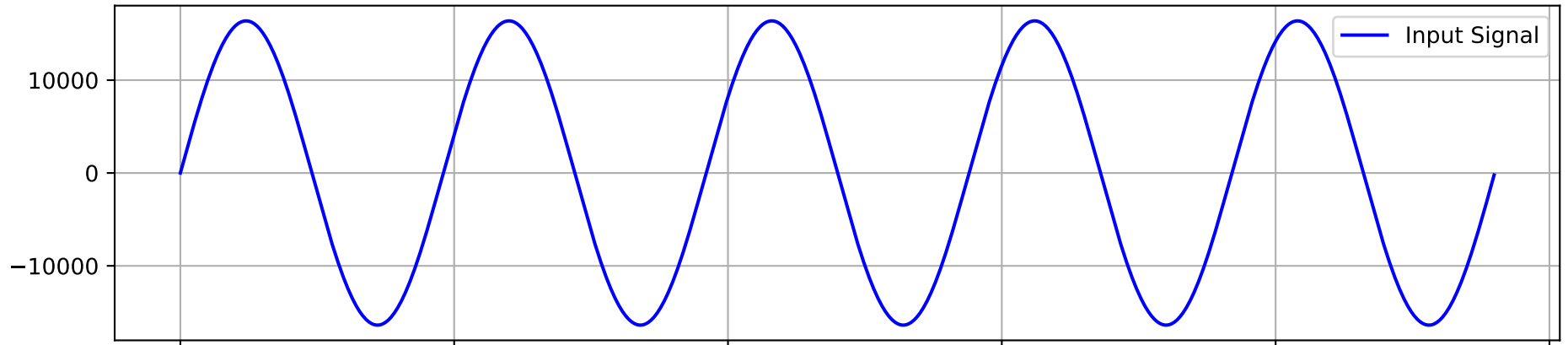Figure 1 - Input Signal with freq 100Hz
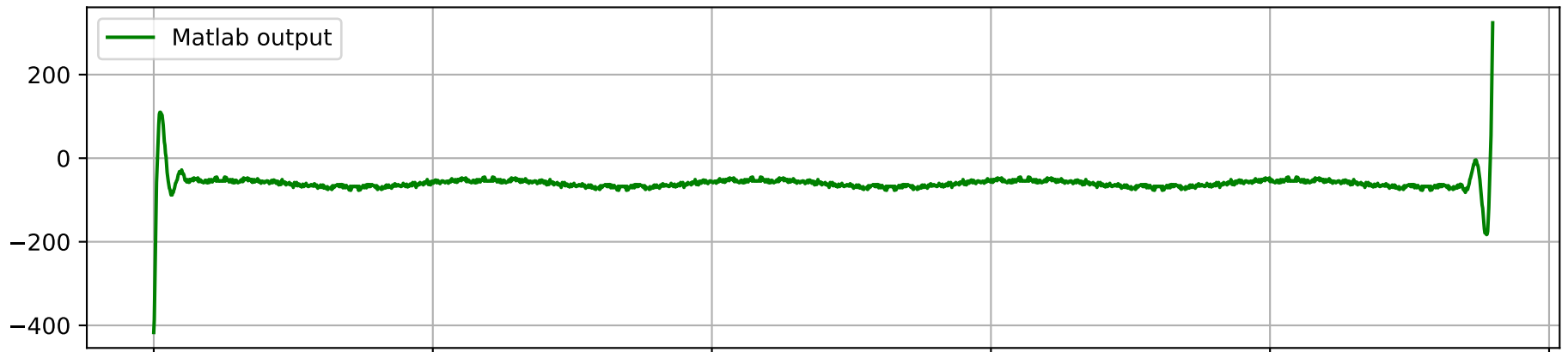
Figure 2 - Matlab output
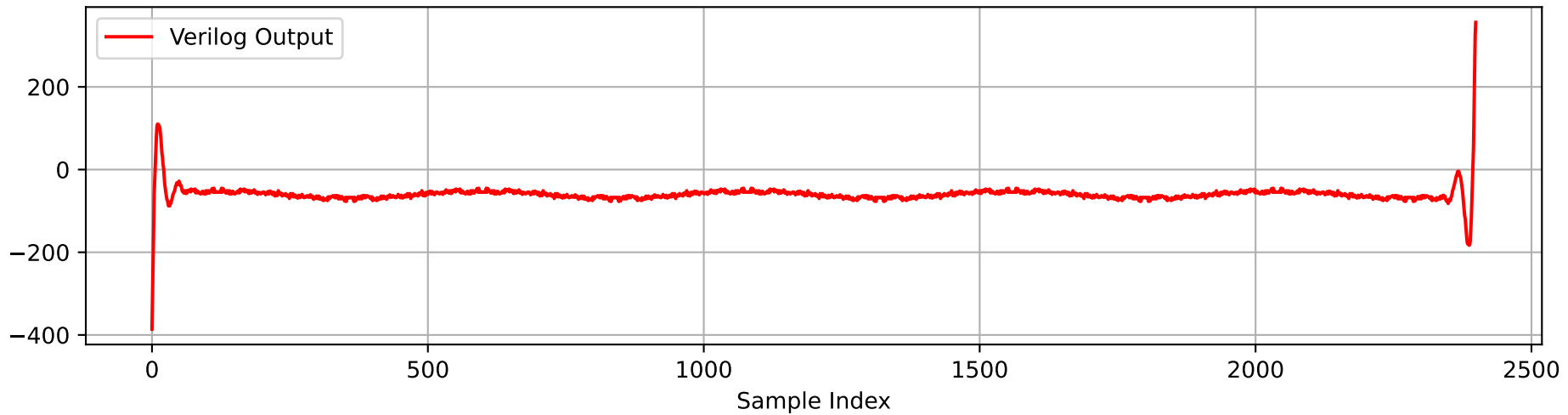
Figure 3 - Verilog Output
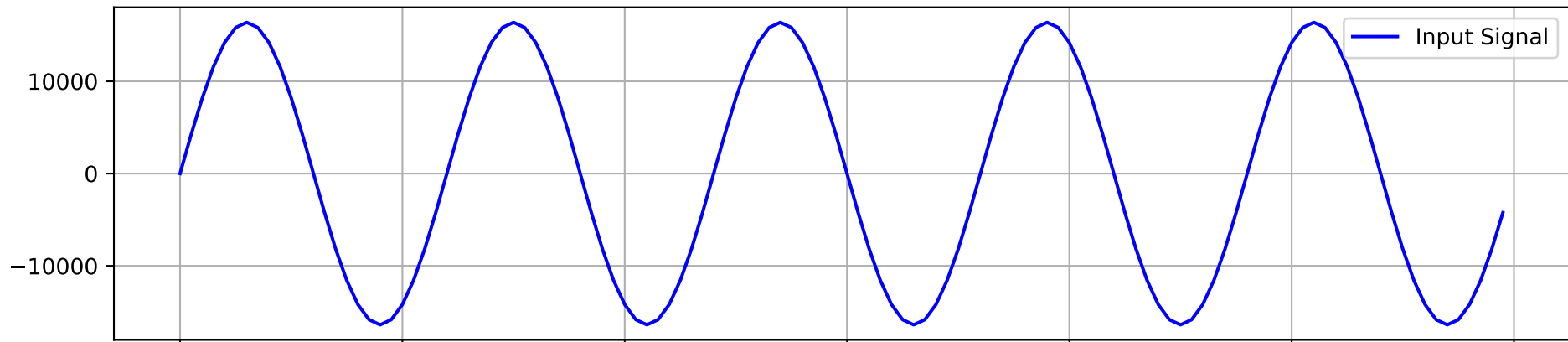
Figure 1 - Input Signal with freq 2000Hz
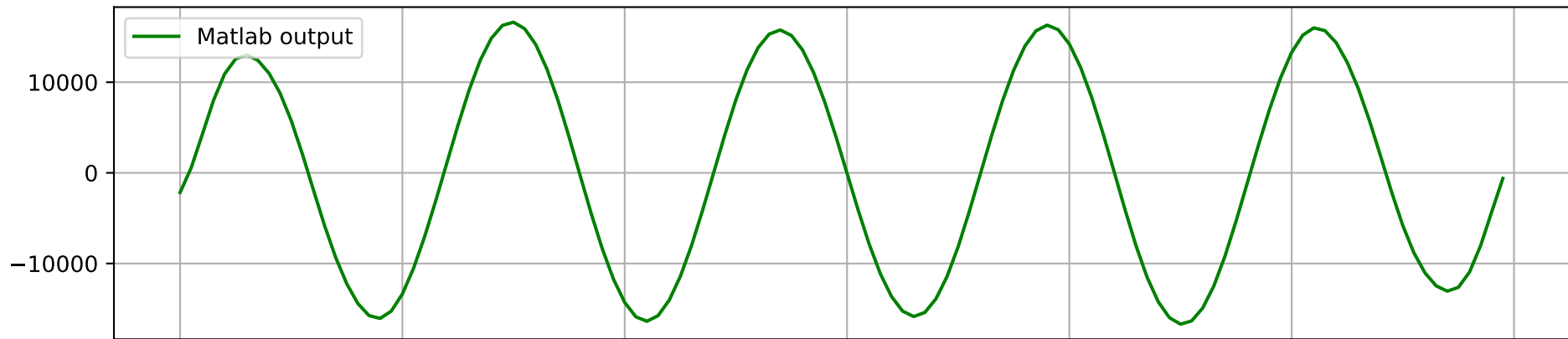
Figure 2 - Matlab output
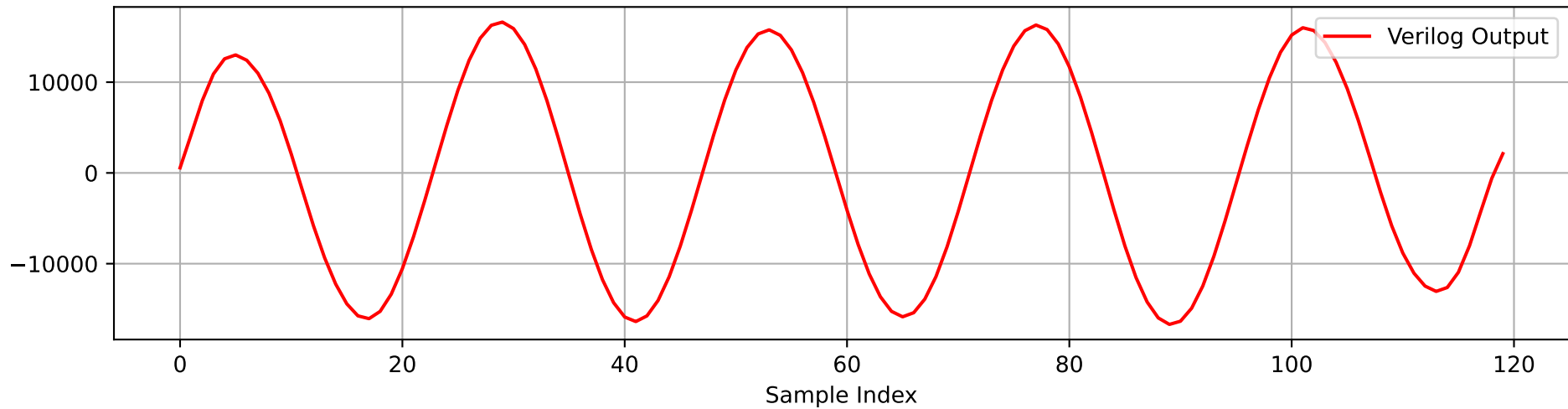
Figure 3 - Verilog Output
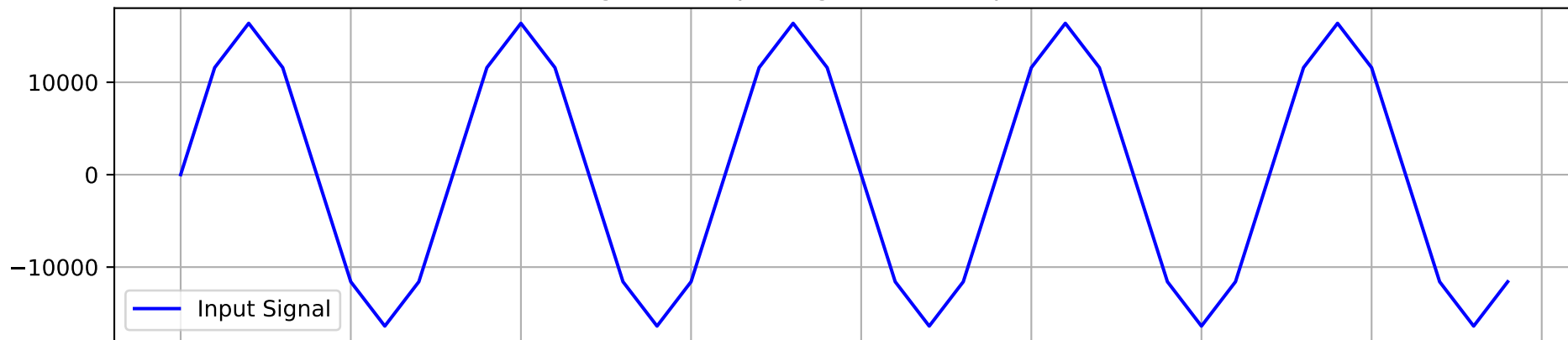
Figure 1 - Input Signal with freq 6000Hz
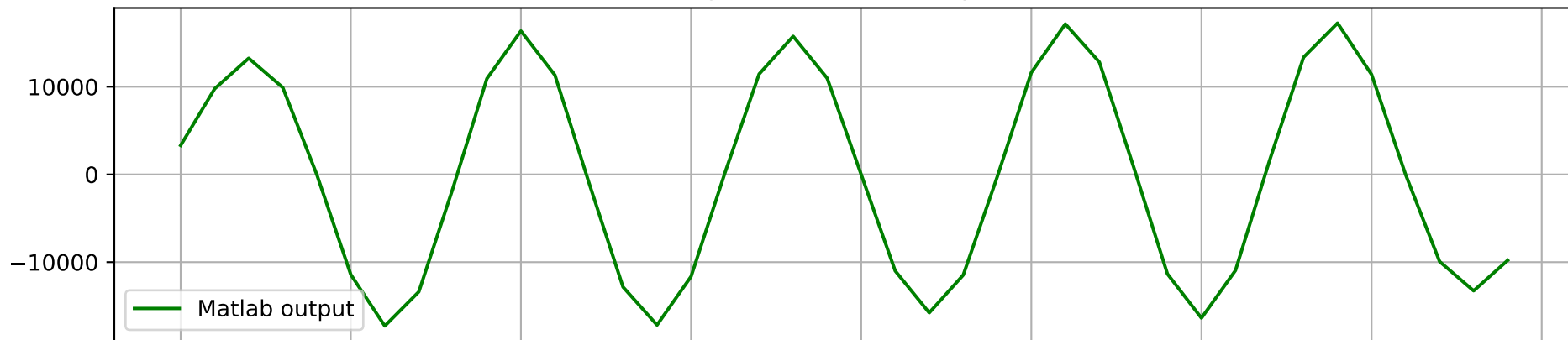
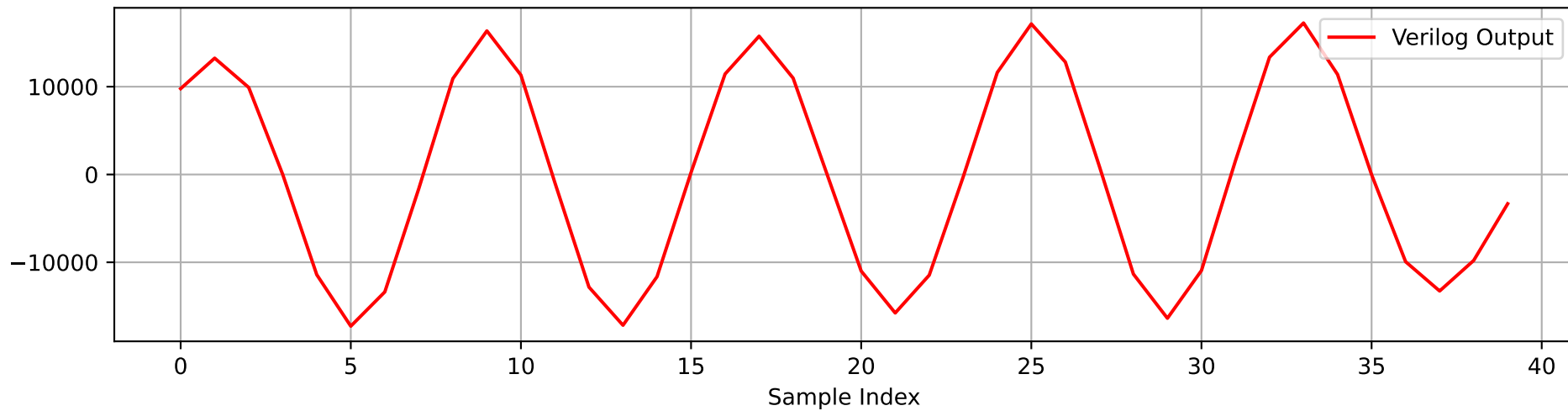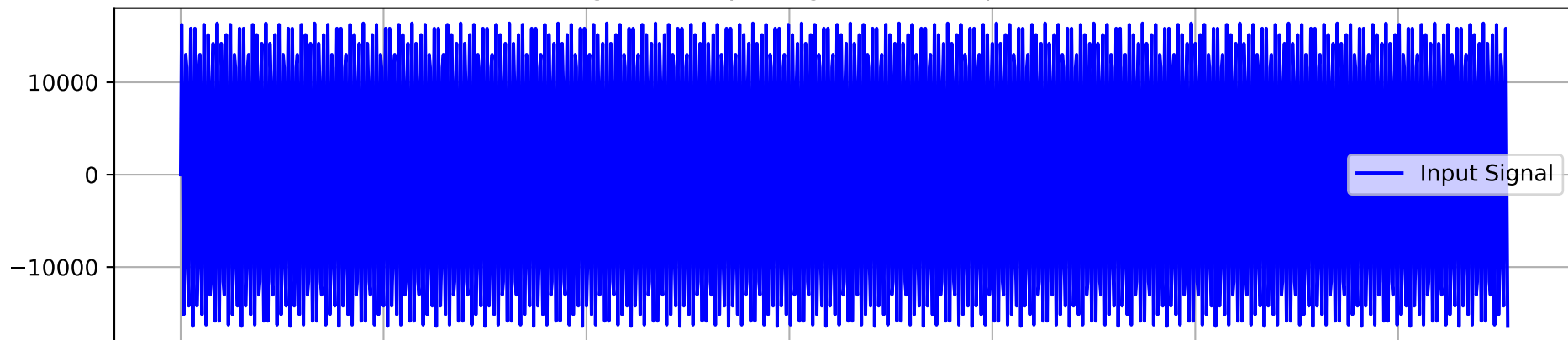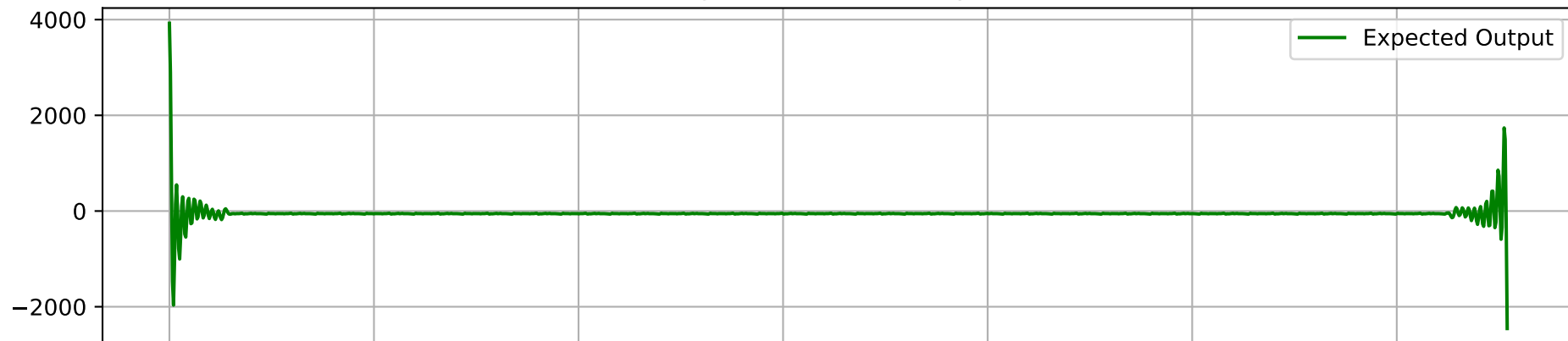Figure 2 - Matlab output

Figure 3 - Verilog Output

Figure 1 - Input Signal with freq 11000Hz

Figure 2 - Matlab output

Figure 3 - Verilog Output