

EC ENGR 3 Lab 1B  
 Week 2 Lab 2

Wave Form	Scope Voltage (CURSOR)	Calc	Meter Voltage (RMS) DMM	Difference (%) Vs Calc DMM
400 Hz	~5 Vpp	Vrms	Vrms	%
Sine:	5.193 V	1.836	1.773	3.4%
Triangle:	5.193 V	1.499	1.446	3.5%
Square:	5.050 V	2.525	2.464	2.4%

A factor that could cause differences includes errors in the readings.

Wave Form	Scope Voltage (CURSOR)	Calc	Meter Voltage (RMS) DMM	Difference (%) Vs Calc DMM
25 kHz	~5 Vpp	Vrms	Vrms	%
Sine:	5.100 V	1.803	0.457	74.7%
Triangle:	5.100 V	1.472	0.370	74.9%
Square:	5.100 V	2.550	0.585	77.1%

The multimeter filters out higher frequency waves, so 25kHz is out of range.