VE215 Lab_4

AC Lab

Data Sheet

Name:_____   Student ID: _____

Date:_____   Signature: _____

Part I.

	Set on Function Generator	Measured with Oscilloscope
Amplitude in Vpp [V]		
Frequency [kHz]		
Rise Time [μs]		
Amplitude in Vpp [V]		
Frequency [kHz]		
Rise Time [μs]		

Table 1. Rise Time Measurement

Part II.

i. Set the wave at 3 [Vpp] 1 [kHz]

Peak	Frequency (measured) [kHz]	Amplitude (measured) [dBV]
f_0		

Table 2. FFT spectrum for Sine wave

Peak	Frequency (measured) [kHz]	Amplitude (measured) [dBV]
f_0		
$3f_0$		
$5f_0$		
$7f_0$		
$9f_0$		

Table 3. FFT spectrum for Square Wave

ii. Set the wave at 6 [Vpp] 2 [kHz]

Peak	Frequency (measured) [kHz]	Amplitude (measured) [dBV]
f_0		

Table 2. FFT spectrum for Sine wave

Peak	Frequency (measured) [kHz]	Amplitude (measured) [dBV]
f_0		
$3f_0$		
$5f_0$		
$7f_0$		
$9f_0$		

Table 3. FFT spectrum for Square Wave