ET-460/494

DSP Lab 4

Equipment Required: Texas Instruments eZdsp USB Stick

Male-to-Male Audio Cable

Audio Source (e.g. computer, mp3 player, microphone)

Headphones (or speakers)

Lab 4

(1.) Follow the slides for Chapter 4, "Sine Waves". **Again, make sure the 5515 chipset is still selected.**

(2.) Unlike the previous labs, this lab introduces the DSP module's ability to generate

waveforms, such as sine waves.

(3.) There is quite a bit of information contained in these slides. While this information is

not essential to completing this lab, it is valuable to know for your future career.

(4.) Questions:

(a.) According to the slides, what are three ways to generate sine waves?

(b.) What are three applications of sine waves?

(c.) Find two other musical note frequencies, other than A and C.

(d.) Describe what happens when you change the sampling frequency.