Test Computer Sound Card with
Software Audio Frequency Sweep Generator

07-29-2017
William Xu

I. Generate Sweep Audio Signal

Traditionally, people uses audio frequency sweep generator to test audio amplifier frequency response. Fig. 1 shows one of the audio signal generators with sweep function.

Fig 1. Audio signal generators with sweep function.

Recently, however, many online software audio signal generators are available with free of charge. **Online Tone Generator** is a commonly used one; you can try it with the following link:

http://onlinetonegenerator.com/frequency-sweep-generator.html

At the home page, just click on **Sweep Generator** button to enter this page:

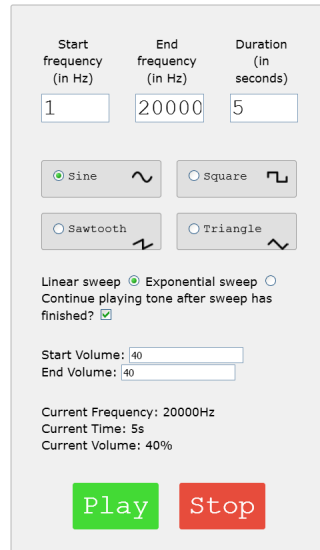Fig 2. **Online Tone Generator** software

Fig 3. **Sweep Generator** window

If we setup all the parameters as Fig. 3 and click on green button **Play,** a sweep audio signal will be generated from 1 Hz to 20,000 Hz within 5 seconds. If your sound card is ready to use, you will hear the sweep signal from very low (1Hz) to very high (20,000Hz).

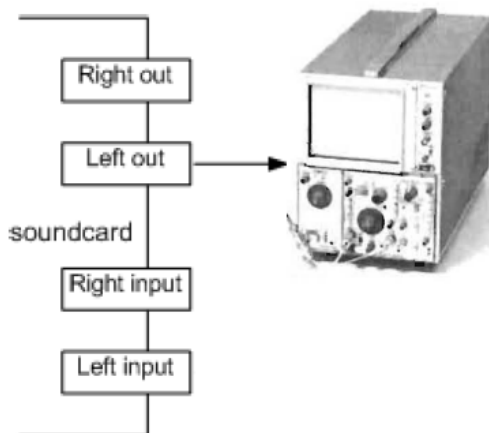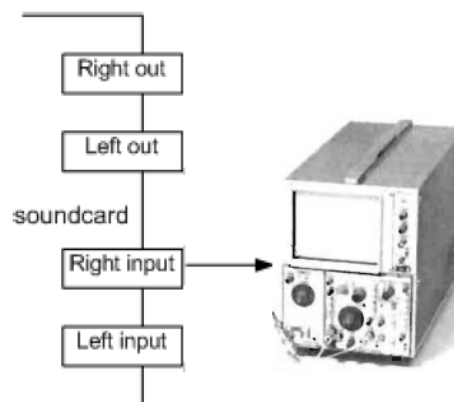## II. Test Your Computer Sound Card Frequency Response

1. Hardware Setup.

Fig 4. Test Left Channel

Fig 5. Test Right Channel