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Elec2400 **ELECTRONIC CIRCUITS** Fall 2021-22

Department : \_\_\_\_\_\_\_\_\_ Session: \_\_\_\_\_ Date :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name : \_\_­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID number : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lab 5a – Audio Equalizer (PSpice Simulation)**

**Q1.** Write down all the calculated component values.

R1a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ VR1 \_\_\_\_\_\_100K Ω\_\_\_\_\_\_

R2a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ VR2 \_\_\_\_\_\_100K Ω\_\_\_\_\_\_

R5a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ VR3 \_\_\_\_\_\_100K Ω\_\_\_\_\_\_

R1b \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ R1c \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

R2b \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ R2c \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

R5b \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ R5c \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

RG \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ca (lower freq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cb (middle freq) \_\_\_\_\_\_\_\_\_\_\_\_

Cc  (higher freq) \_\_\_\_\_\_\_\_\_\_\_\_\_ fo\_Lower  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

fo\_Middle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fo\_Higher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q2.** Show the simulated frequency characteristic of your equalizer to TA.

(TA’s name) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3. Capture the simulated frequency characteristic of your equalizer.

Put your plot here