

# LAB REPORT

## Electronics Lab II (ELC 3910)

Experiment No.: 2

S. No:

1	2
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F. No:

2	0	E	L	B	0	8	4
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Name:

Y	U	S	U	F		A	H	M	E	D		K	H	A	N
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Object:

Simulation of a Common Emitter amplifier.

Software used: PSpice

Date of performing the experiment: 07/09/2022

Date of report submission: 14/09/2022

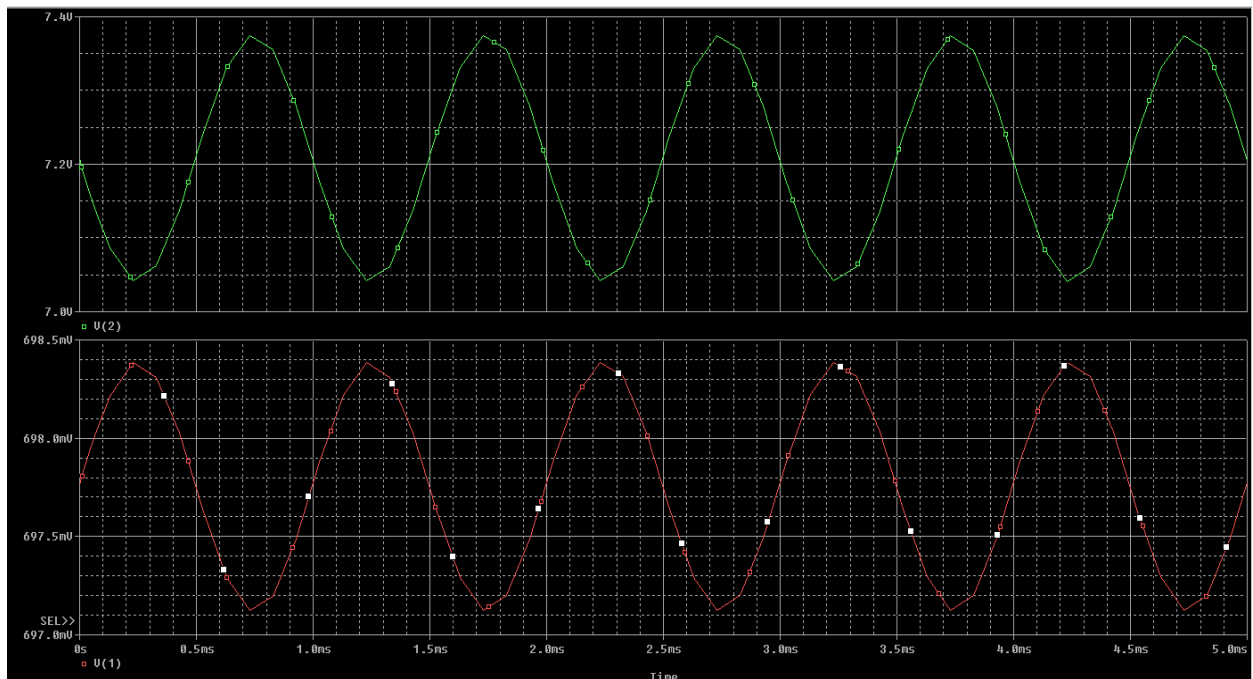
## Snippets of

### I. Code

```
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Vcc 3 0 DC 15V
Rc 3 2 1K
Rb 4 1 10K
R1 3 4 12K
R2 4 0 1K
C1 4 5 10UF
VIN 5 0 SIN (0 10M 1K)
Q1 2 1 0 Q2N2222
.model Q2N2222 NPN(Is=14.34f Xti=3 Eg=1.11 Vaf=74.03 Bf=255.9 Ne=1.307
+ Ise=14.34f Ikf=.2847 Xtb=1.5 Br=6.092 Nc=2 Isc=0 Ikr=0 Rc=1
+ Cjc=7.306p Mjc=.3416 Vjc=.75 Fc=.5 Cje=22.01p Mje=.377 Vje=.75
+ Tr=46.91n Tf=411.1p Itf=.6 Vtf=1.7 Xtf=3 Rb=10)
.TRAN 0.1U 5M
.PROBE
.END
```

### II. Plot



(A) 2.dat (active)

