Ex. No.:3

Response of RLC Series Circuit

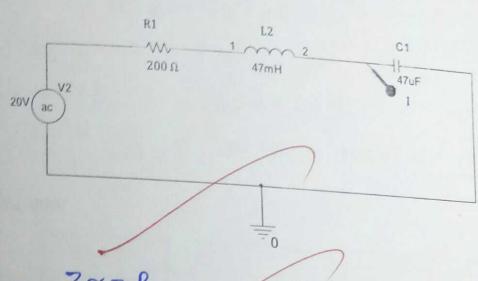
Aim: To determine and verify the resonant current and resonant frequency for the given series RLC circuit, theoritical and spinulation values.

Apparatus/Tool required:

ORCAD / Capture CIS -> Analog Library - R, L & C Source Library - Vac Ground (GND) - 0 (zero)

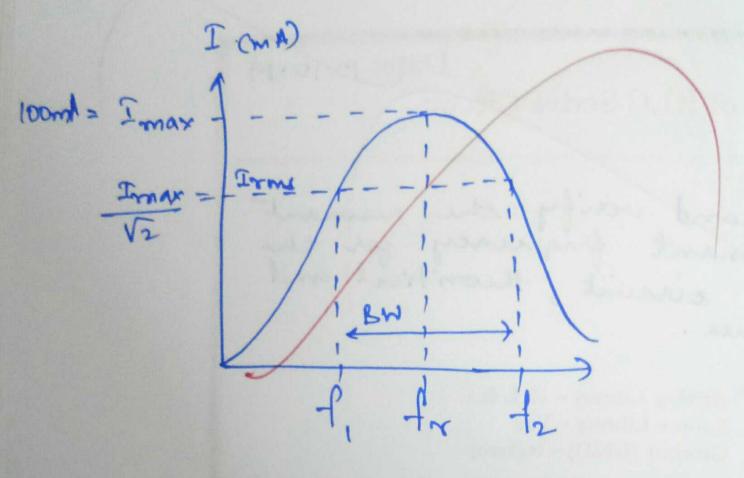
Simulation Settings: Analysis Type - Transient (Time Domain)
Run to time: 20ms

Circuit Diagram:

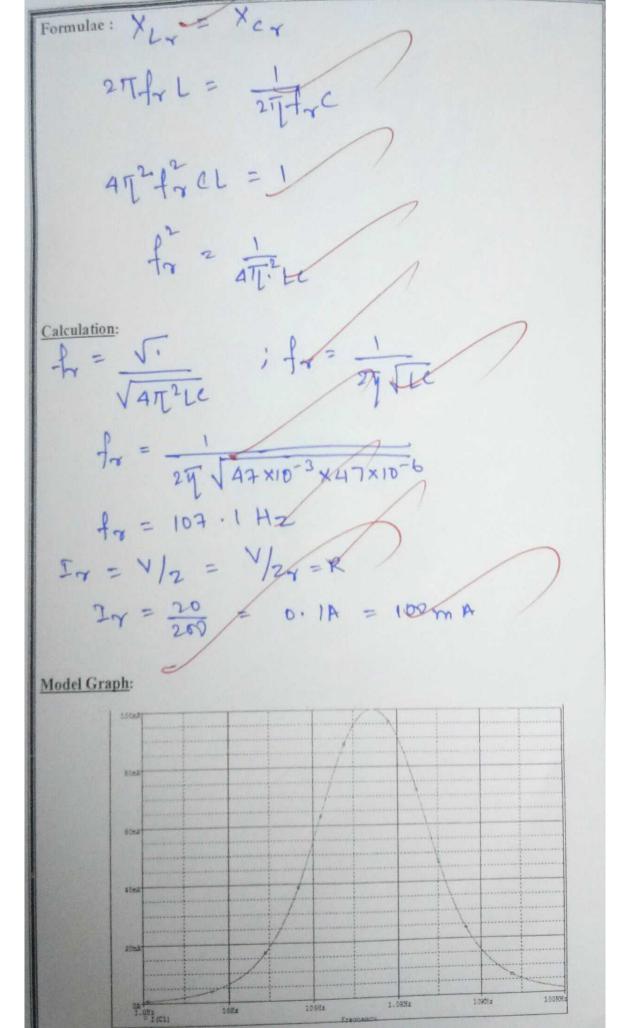


Theory: $2\gamma = R$

$$I = V/Z = \frac{V}{R = (2\pi i)}$$



BW => Band weidth.



	00000	2
Result: The series of have been perforthe following to have been performed to the following to have been pared to have been performed to the following to the following to have been performed to the following to the follo	thion tical and seen tabulated	eimulation
Parrormetter	100 m A	Singulation Values. 107.1 Hz
Reg. No: 19 13 C € 2014 Na	ame: Kulnigh	Date: 10/10/19
	singh	

