SE 3K04

Assignment 2

Testing

Group 18

Dec 2, 2018

Table of Contents

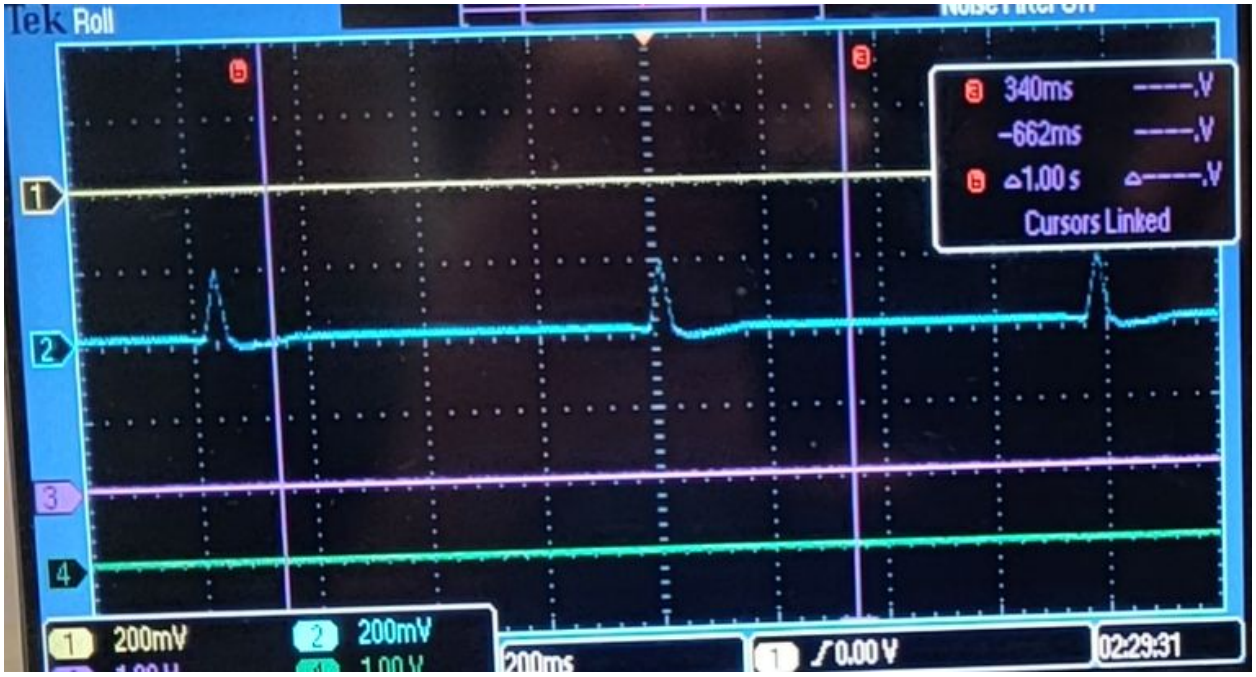
No Natural Paces

Parameters	Inputs	Conversion	Expected Result
p_lowrateInterval	1000	60 BPM	Only pacemaker's paces should appear on the oscilloscope.
p_vPaceWidth	10	10	
p_vPaceAmp	60.0	3V	
p_VRP	80	80	
MOVEMENTS	NONE	NONE	
INHIBITION	0 BPM	0 BPM	

Test PASSED as there are only paces from the pacemaker.

Only Natural Paces 60 BPM

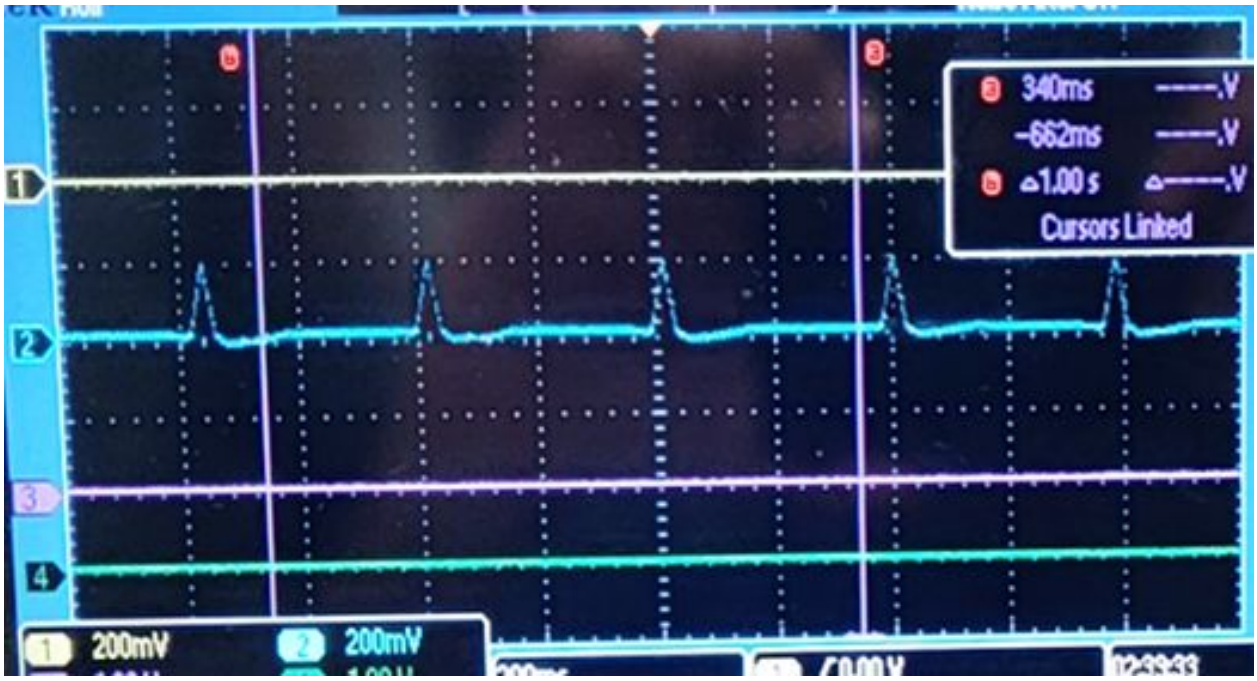
Parameters	Inputs	Conversion	Expected Result
p_lowrateInterval	1000	60 BPM	No pacemaker paces should occur, only natural paces.
p_vPaceWidth	10	10	
p_vPaceAmp	60.0	3V	
p_VRP	80	80	
MOVEMENTS	NONE	NONE	
INHIBITION	60 BPM	60 BPM	



Test PASSED as there is no pacing from the pacemaker.

Only Natural Paces 120 BPM

Parameters	Inputs	Conversion	Expected Result
p_lowrateInterval	1000	60 BPM	Only pacemaker's paces should appear on the oscilloscope.
p_vPaceWidth	10	10	
p_vPaceAmp	60.0	3V	
p_VRP	80	80	
MOVEMENTS	NONE	NONE	
INHIBITION	120 BPM	120 BPM	



Test PASSED as only natural paces appear, and there are no pacemaker paces.

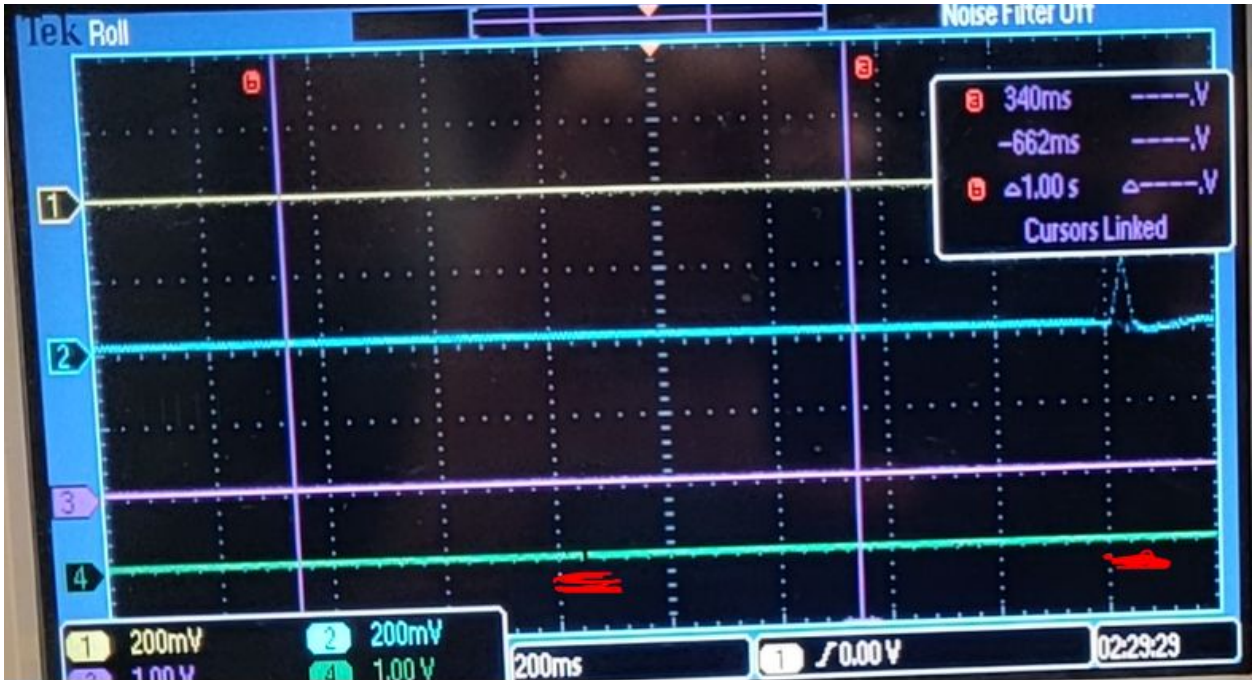
Rate Adaptive Paces

Parameters	Inputs	Conversion	Expected Result
p_lowrateInterval	1000	60 BPM	Only pacemaker paces should appear on the pacemaker. Frequency of paces slowly increases
p_vPaceWidth	10	10	
p_vPaceAmp	60.0	3V	
p_VRP	80	80	
MOVEMENTS	FAST	FAST	
INHIBITION	0 BPM	0 BPM	

Test PASSED and the pacing increased to a higher frequency.

Slow Natural Pace Correction

Parameters	Inputs	Conversion	Expected Result
p_lowrateInterval	1000	60 BPM	Natural and pacemaker paces alternate evenly. The combined pacing should be 60 BPM.
p_vPaceWidth	10	10	
p_vPaceAmp	60.0	3V	
p_VRP	80	80	
MOVEMENTS	NONE	NONE	
INHIBITION	30 BPM	30 BPM	



Test PASSED, first the pacemaker pace occurs and then the natural pace occurs after.

Slow Natural Pace Correction with Rate Adaptivity

Parameters	Inputs	Conversion	Expected Result
p_lowrateInterval	1000	60 BPM	Multiple pacemaker paces in between the natural paces should appear on the oscilloscope.
p_vPaceWidth	10	10	
p_vPaceAmp	60.0	3V	
p_VRP	80	80	
MOVEMENTS	FAST	FAST	
INHIBITION	60 BPM	60 BPM	

Test PASSED, there are multiple pacemaker paces between the 2 natural paces. Properly sensed the natural pace and waited the right amount of time to pace again, which is seen in the even spacing between the 2nd and 3rd pacemaker pace compared to the space between the 1st natural pace and 2nd pacemaker space.