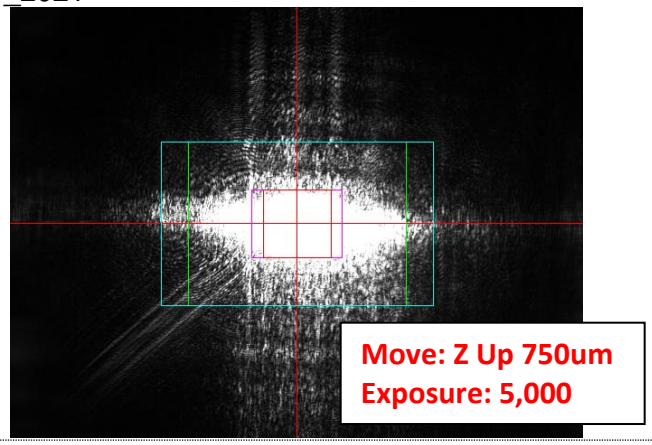
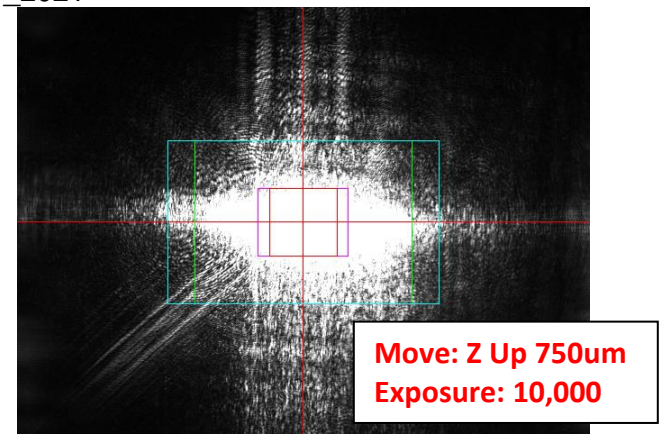
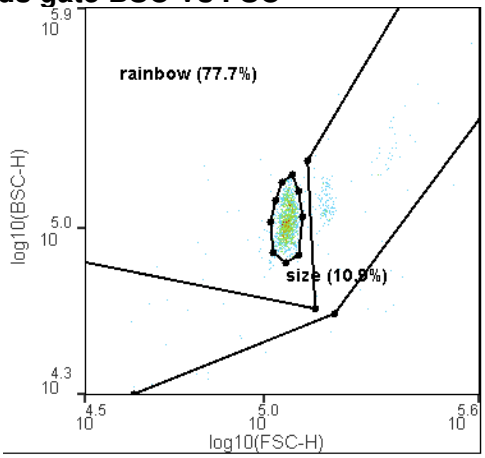
nanocellect Biomedical, Inc.

Production 191 LASER ALIGNMENT REPORT

Section I: Operator and Process Details	
Report Date	5/19/2021
Dry alignment Operator	David Sisombath
Wet Alignment Operator	David Sisombath
Unit Process	2-Day Process (ECO 019)
Report Generated By	David Sisombath

Section II: Laser Beam Focusing	
LASER Reference Cartridge ID	324-14575P
LASER Reference Cartridge Aligned with	PDMS Marker
Hysteresis value xyz	0.008um (default)
Date of captured images	5/19/2021
Image filename: 324-14575P_Overnight_30mW_Exposure5000_z750_05_19_2021	**Image filename:** 324-14575P_Overnight_30mW_Exposure10000_z750_05_19_2021
	

Section III: Rainbow Beads	
Date of Rainbow beads analyzed	5/14/2021
Cartridge ID	222-11258P
Type of Cartridge	PDMS
Best CV at XX um from Chip center (if applicable)	Chip center
Date of captured images	5/14/2021
Rainbow beads gate BSC Vs FSC 	**Collection Settings** **Trigger Channel:** FSC Threshold: 8,400 Gains; • FL1= 430mV • FL2= 430mV • FL3= 430mV • BSC= 0.28V

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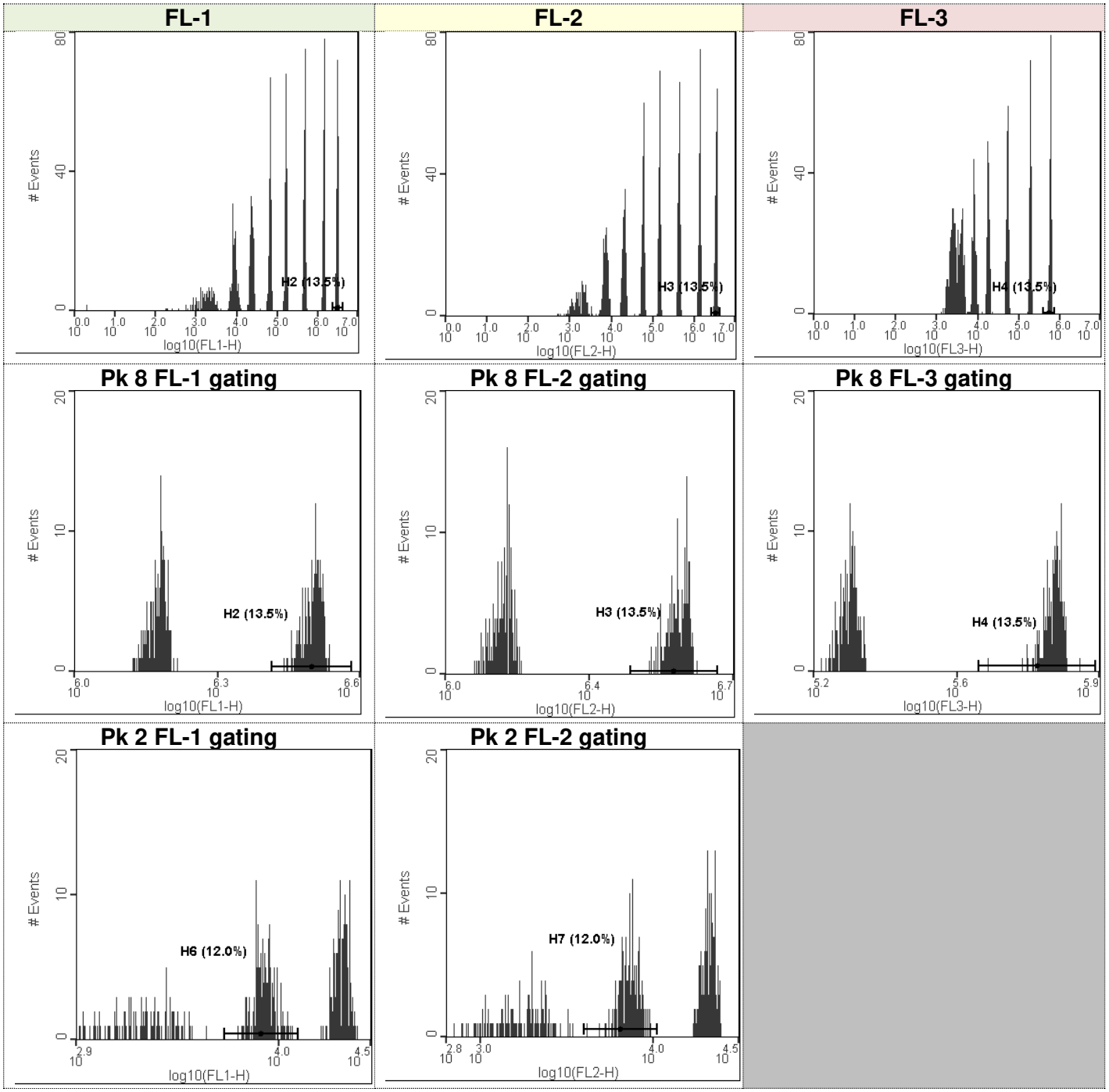
Production 191 LASER ALIGNMENT REPORT

Rainbow beads reference data



	Peak 8 CV% *	Peak 8 Mean	Peak 2 CV%	Peak 2 Mean
FL1	4.52	3,089,727	14.06	8,884
FL2	5.19	3,433,071	12.93	7,373
FL3	5.38	602,271		

Passing if Peak 8 FL1,FL2 <9%, FL3<15%

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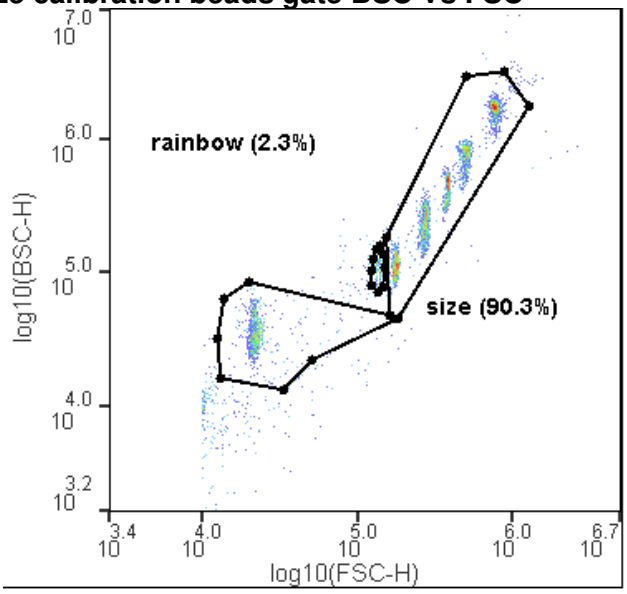
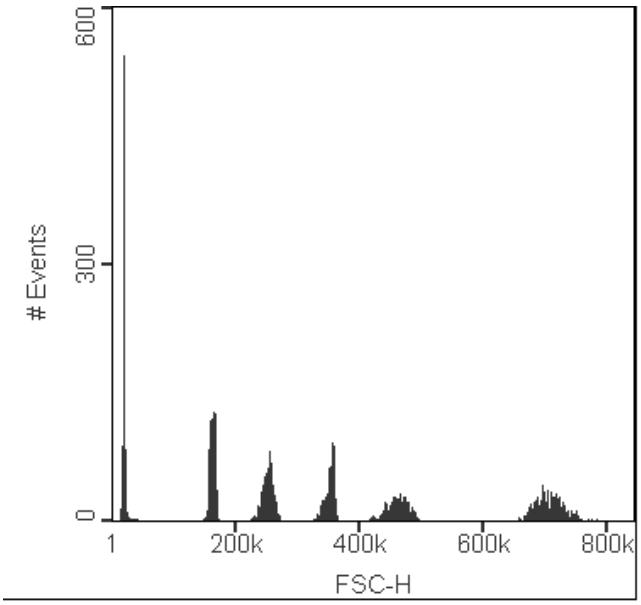
Production 191 LASER ALIGNMENT REPORT

Section IV: Size Calibration Beads	
Date of Size calibration beads analyzed	5/14/2021
Cartridge ID	222-11258P
Type of Cartridge	PDMS
Best CV at XX um from Chip center (if applicable)	Chip center
Date of captured images	5/14/2021
Size calibration beads gate BSC Vs FSC  	**Collection Settings** **Trigger Channel:** FSC **Threshold**: 8,400 **Gains**; • **FL1**= 430mV • **FL2=** 430mV • **FL3**= 430mV • **BSC**= 0.28V

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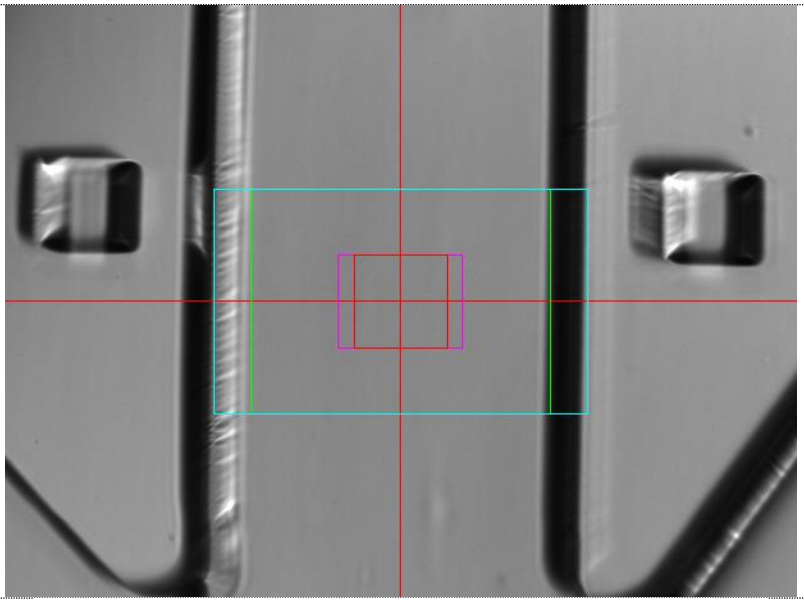
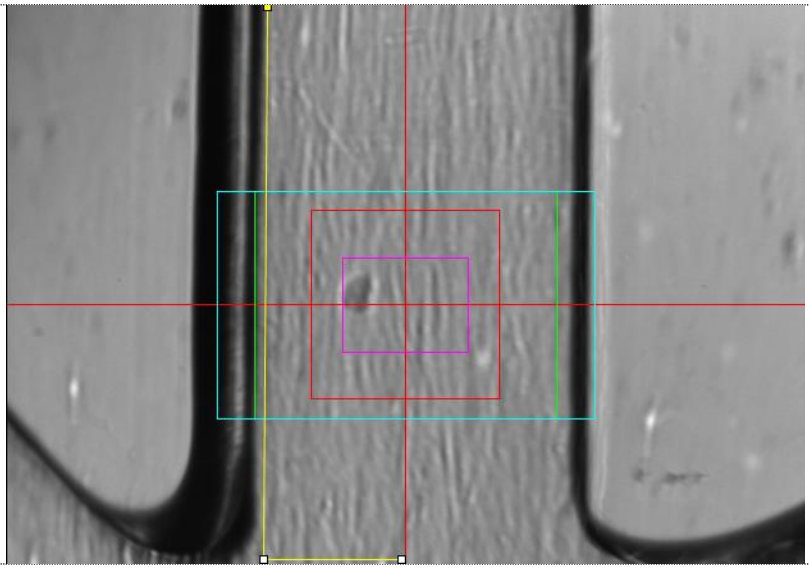
Production 191 LASER ALIGNMENT REPORT

Section V: Chip center Ref Cart and Baseline	
Chip center value (LASER reference cart)	X: 2.5567322 Y: 1.9059143 Z: 2.2798462
Chip center image of (LASER reference cart)	
Baseline with dry LASER reference cartridge	

	FI3	FI2	FI1	Bsc	Fsc
Offset	96.680u	330.76u	157.62u	-779.98u	46.680u
StDev	7.7848p	408.56p	269.91p	194.72p	121.48p

Section VI: Tilt Angle Check with Camera Ref Cart	
CAMERA reference Cartridge ID	000 027 037
Chip center value (CAMERA reference cart)	X: 2.4720154 Y: 1.960144 Z: 2.528473
Tilt Angle: 90-Measured (in degrees) (Max allowed is 1.3)	**0.391**
Chip center image of CAMERA Ref cart with measured angle	

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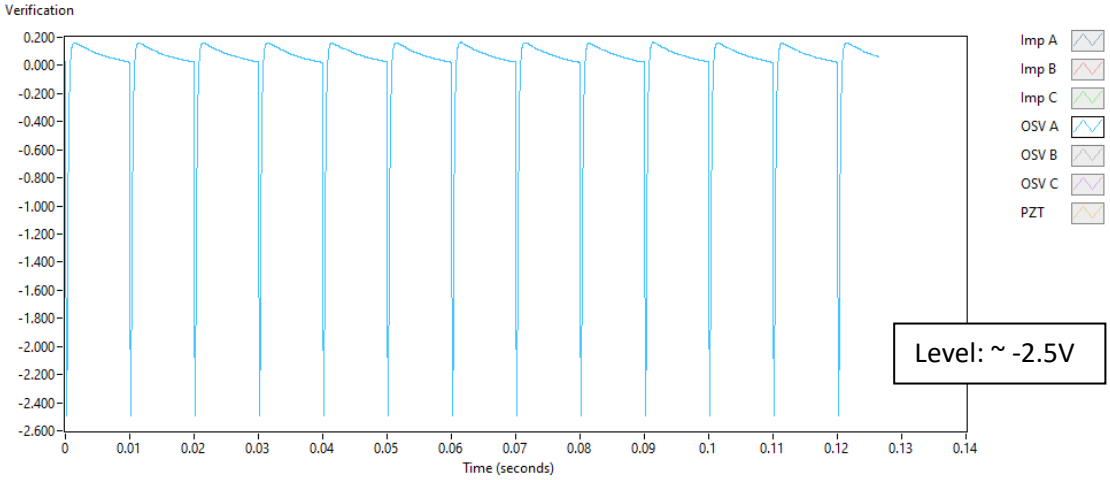
Production 191 LASER ALIGNMENT REPORT

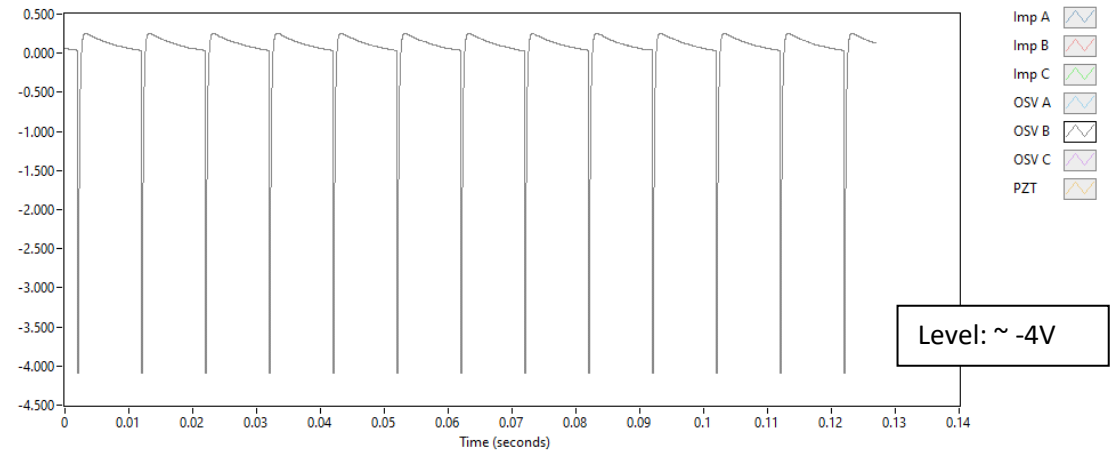
Section VII: OSV Check	
Pulsation time	**10us**
Pulsation frequency	**100Hz**

OSV A



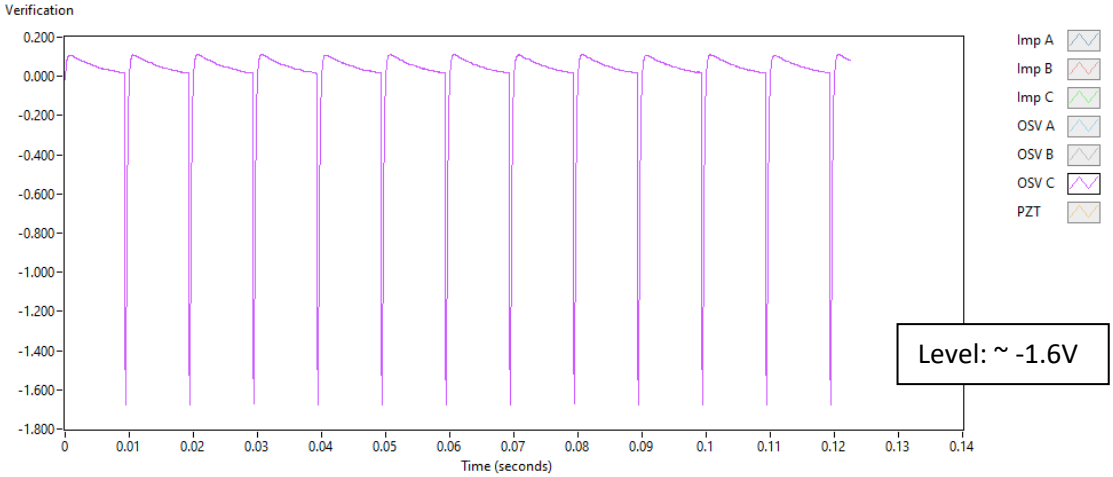
Level: ~ -2.5V

OSV B



Level: ~ -4V

OSV C



Level: ~ -1.6V

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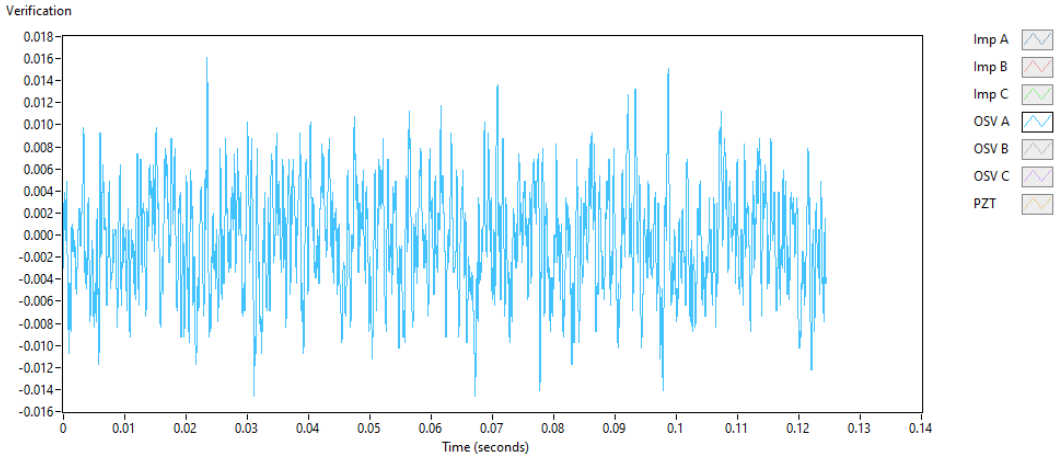
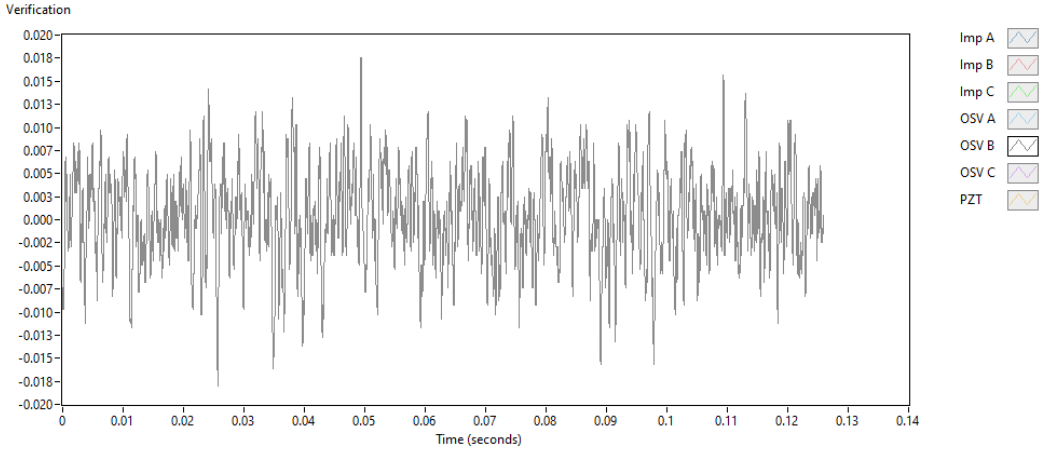
Production 191 LASER ALIGNMENT REPORT

Section VIII: OSV Noise Level

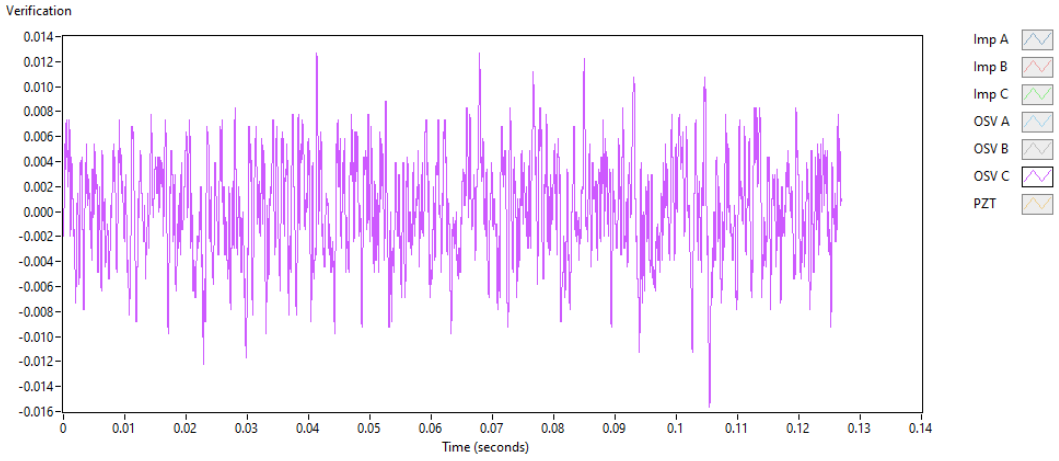
OSV A



OSV B



OSV C



Section IX: Approval

Manager Signature: Constance Ardila	**Date:** 5/19/2021
Reporter Signature: David Sisombath	**Date:** 5/19/2021