

Resonance Testing at different locations

VT 1190

Purpose

My goal is to characterize the resonance of the machine at eight (8) different points.

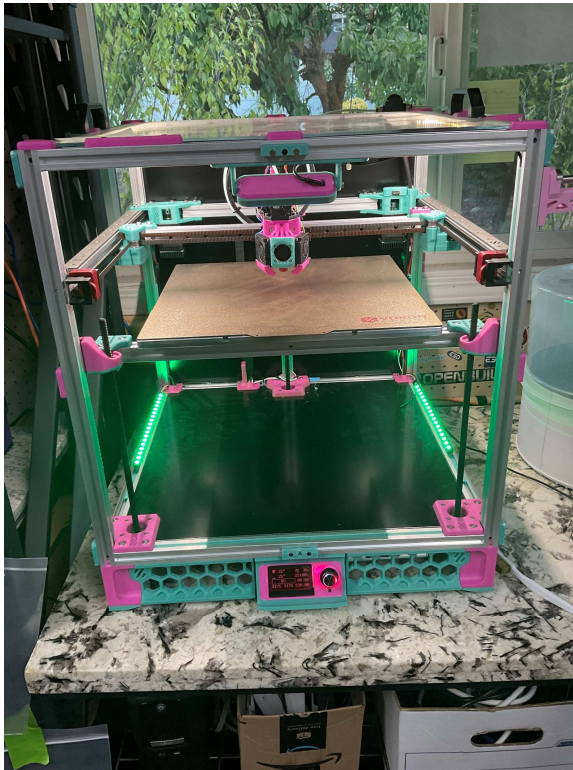
Then to start selectively breaking my machine and measuring the resonance.

With this I hope to build a database of what the input shaping graphs will look like with different issues.

One can then use this database to diagnose and fix the issue.

Trident 300 – self sourced

XOL, ebb36, revo voron,
chaotic labs cnc ab tensioners, Orbiter 2.0,
tap R8

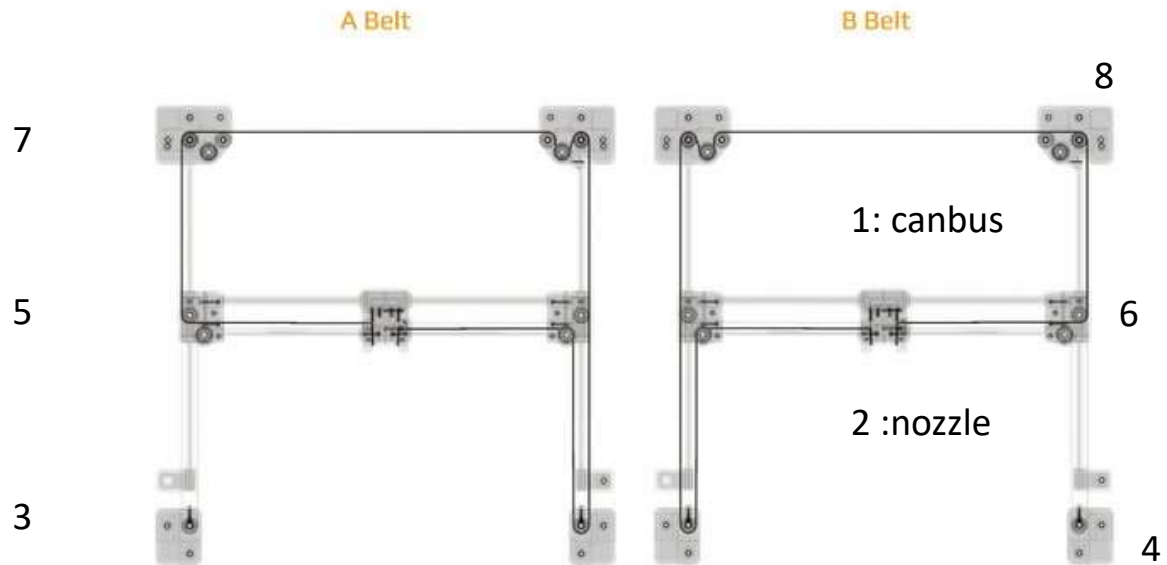


```
#Ebb36# [adxl345]
# cs_pin: ebb36:PB12
# spi_software_sclk_pin: ebb36:PB10
# spi_software_mosi_pin: ebb36:PB11
# spi_software_miso_pin: ebb36:PB2
# #axes_map: x,y,x

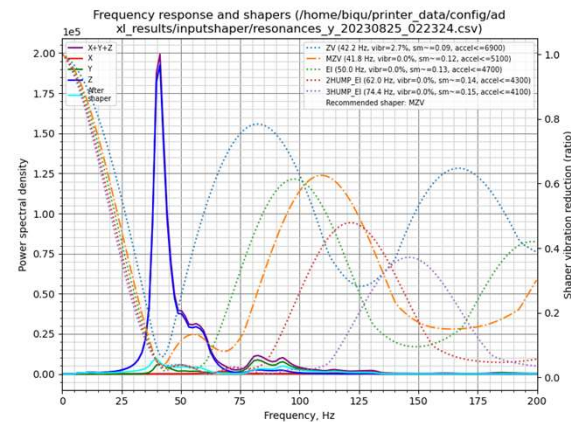
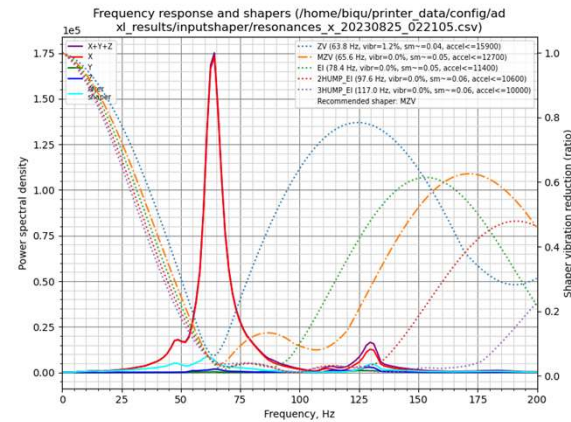
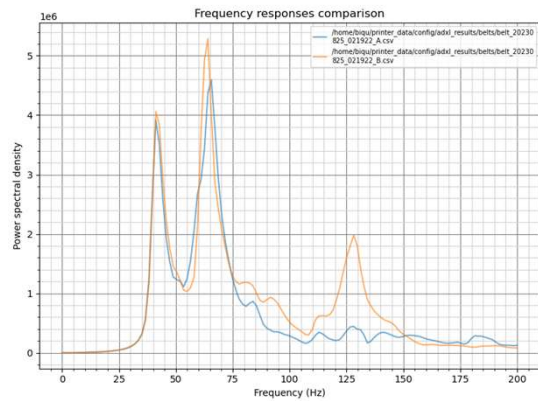
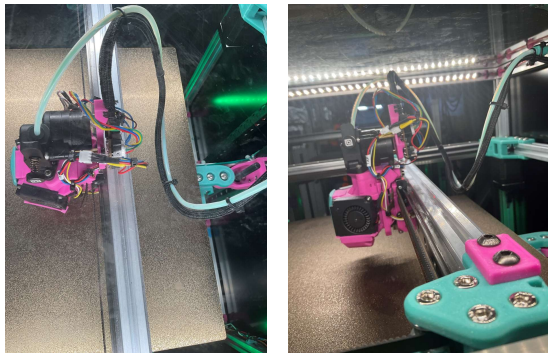
# #Nozzle[mcu ampon]
serial: /dev/serial/by-id/usb-Anchor_Ampon-if00[adxl345]
cs_pin: ampon:CS
#Test
[resonance_tester]
accel_chip: adxl345 probe_points: 175, 175, 20
accel_per_hz: 100

[input_shaper]
shaper_freq_x: 62.8shaper_type_x: mzv
#accel_x: 11,600
shaper_freq_y: 41.2
shaper_type_y: mzv
#accel_y: 5000
```

ADXL locations

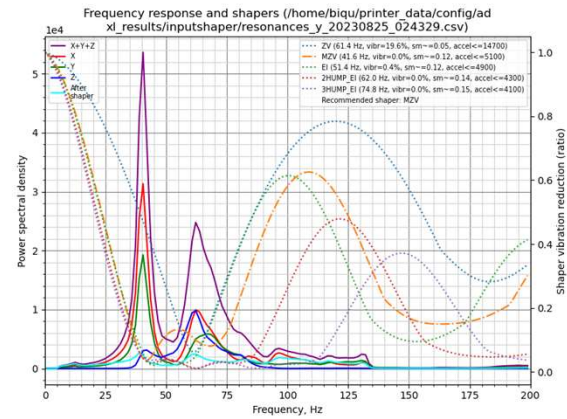
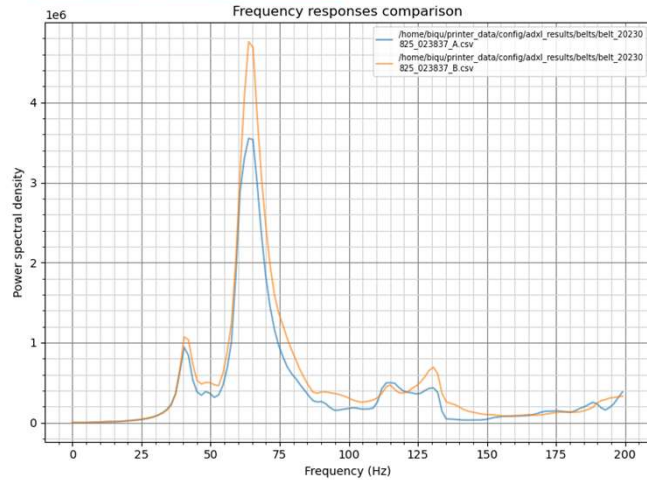
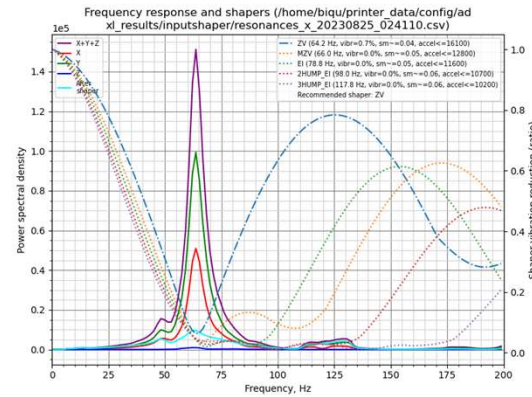
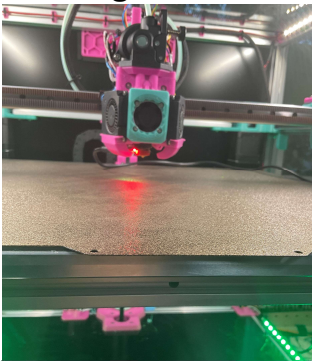


1: EBB36 adxl – canbus boxxy nozzle adxl not connected



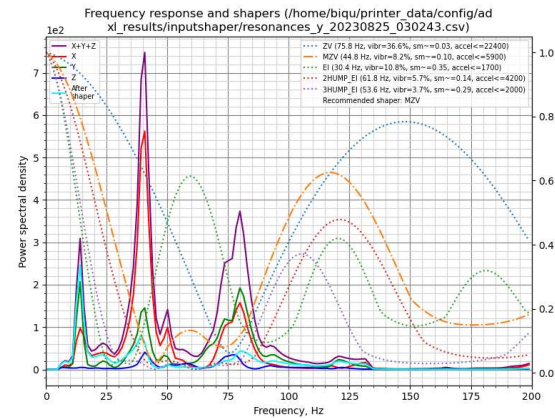
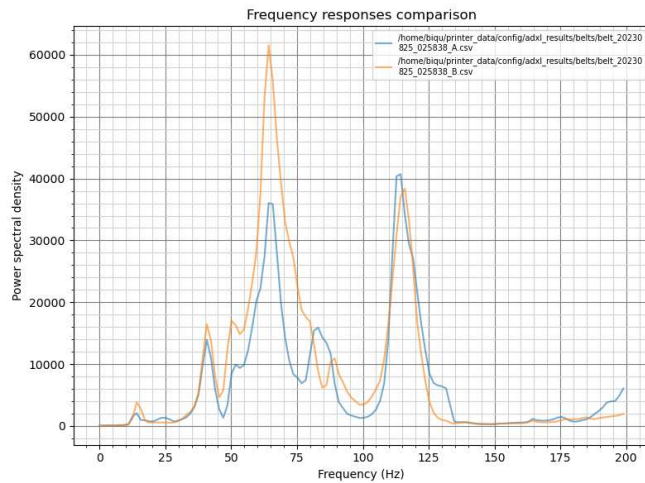
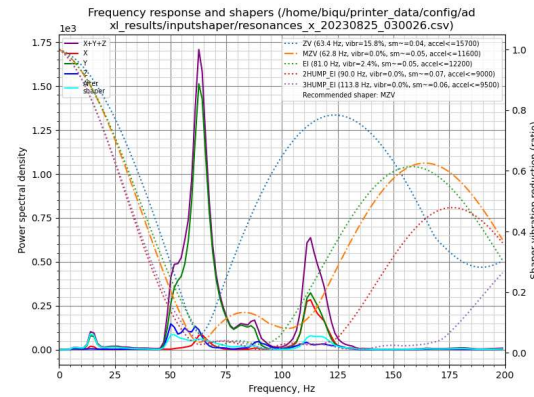
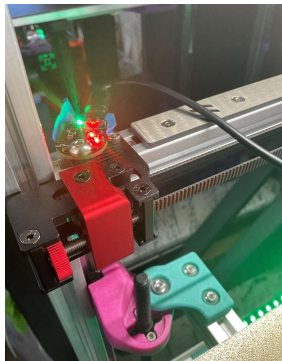
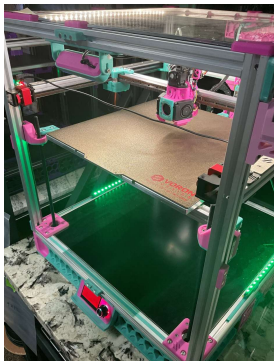
2: Boxy nozzle probe - at nozzle

remember -revo voron-
not as good as other nozzles without springs.

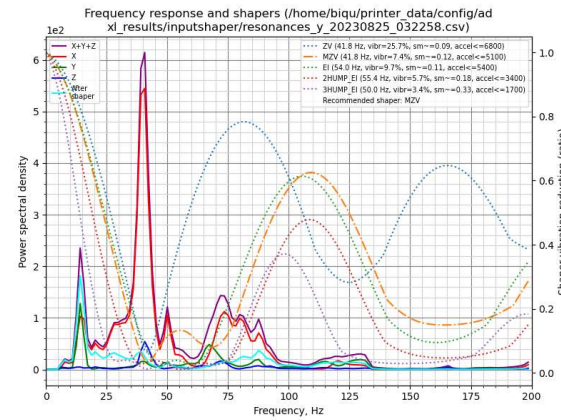
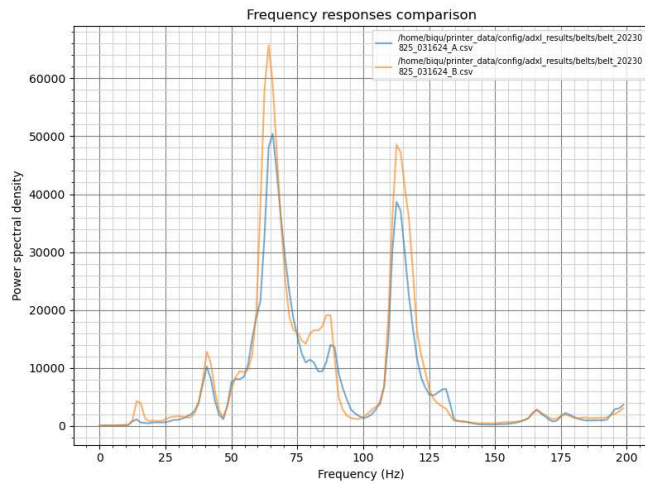
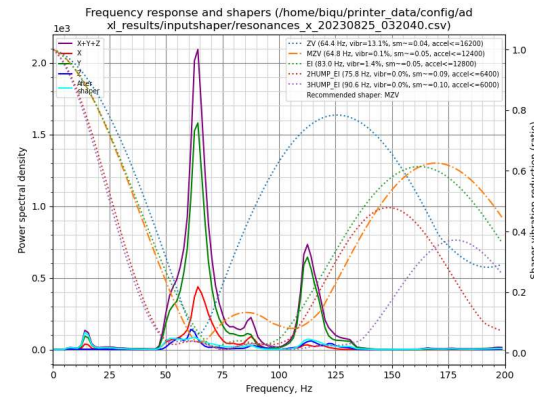


3: Boxy nozzle probe - front left idler

not ideal cable routing

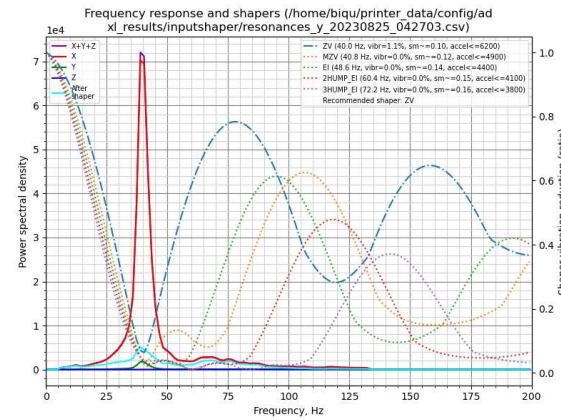
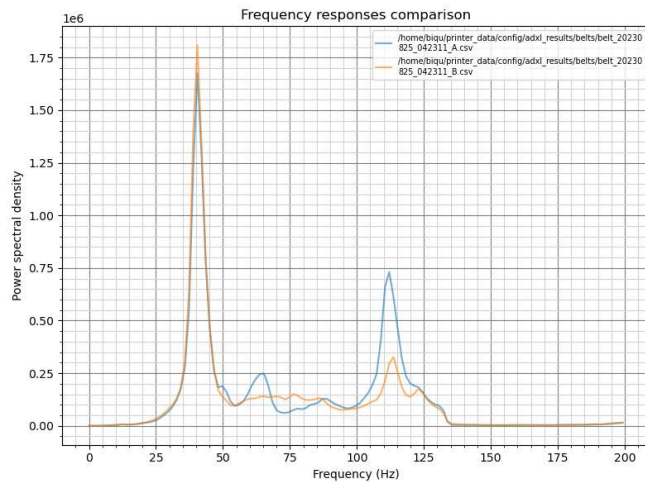
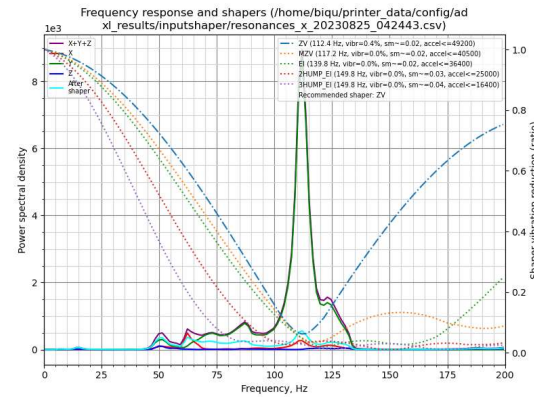
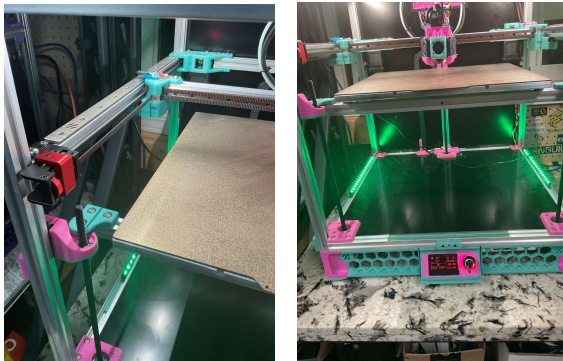


4: Boxy nozzle probe - front right idler

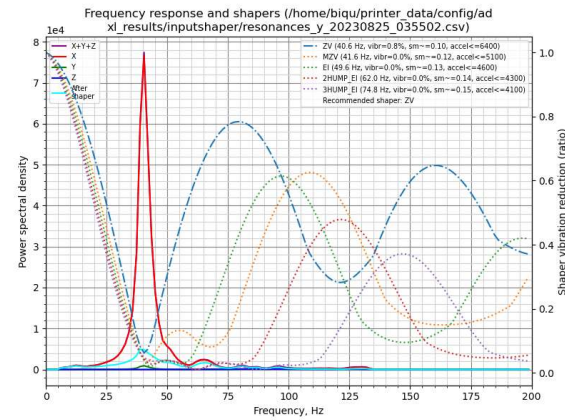
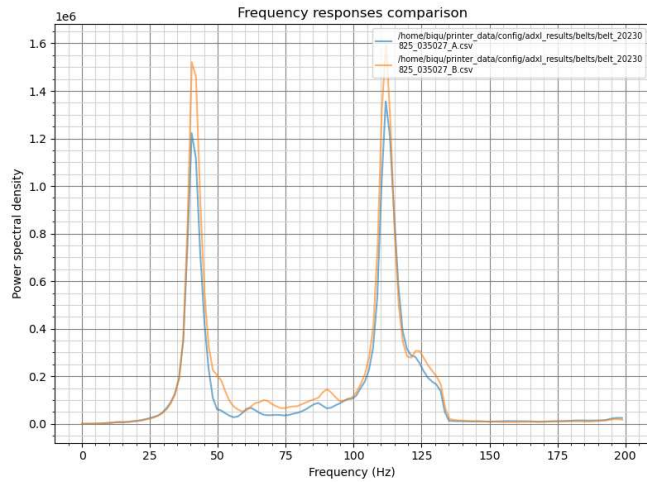
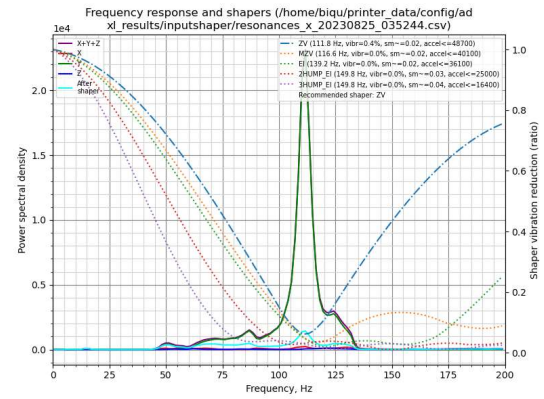
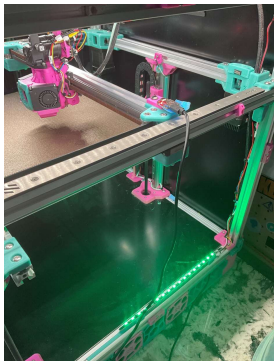


5: Boxyy nozzle probe – left xy-joint

note: need to replace m5x10 with an m5x12 in order to screw in nozzle probe

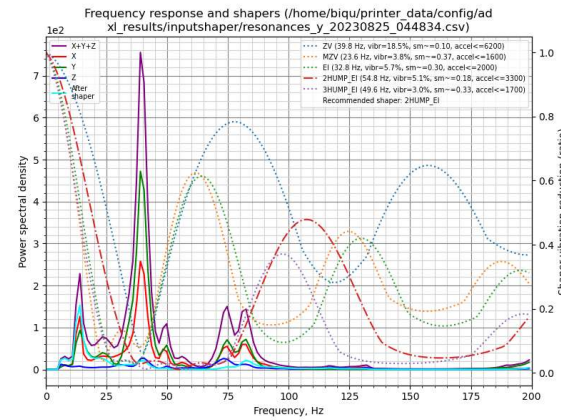
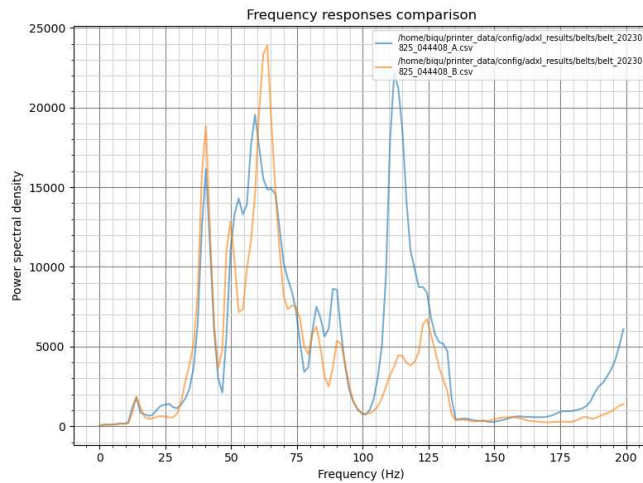
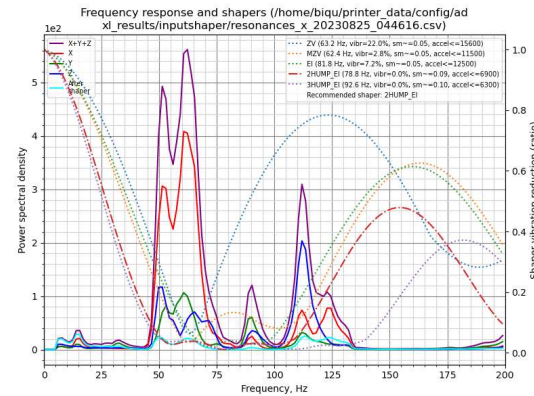


6: Boxy nozzle probe - right xy-joint



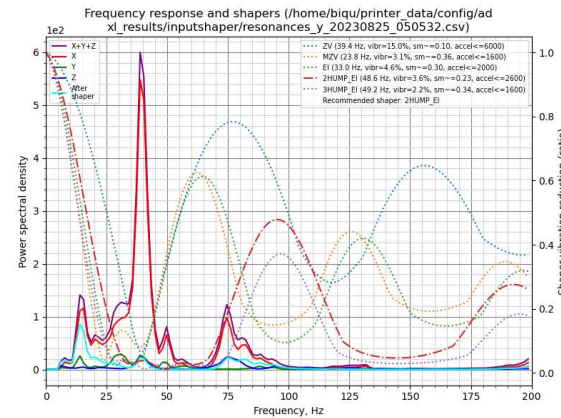
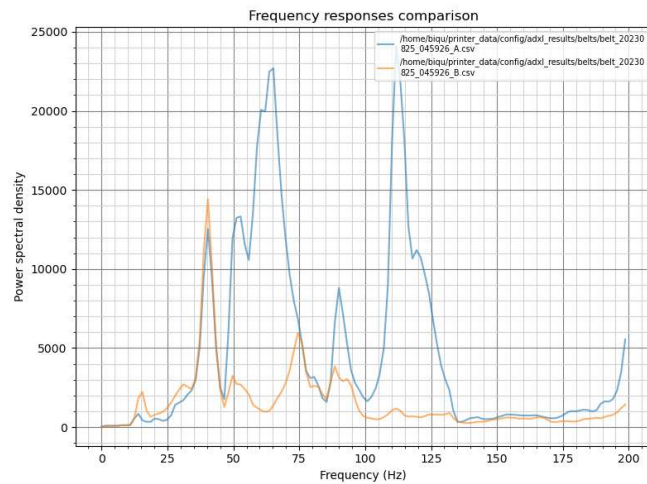
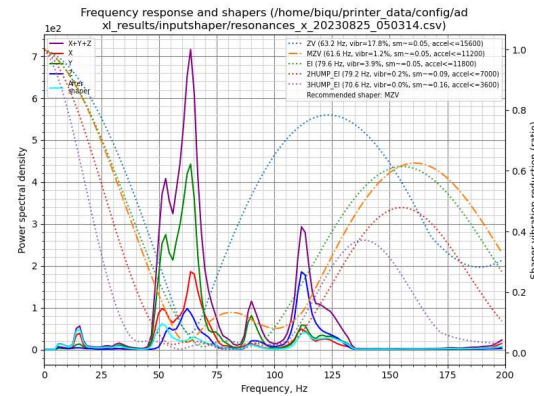
7: Boxy nozzle probe – left rear joint

note: need to replace m5x10 with an m5x12 & washer in order to screw in nozzle probe



8: Boxyy nozzle probe – right reat joint

note: need to replace m5x10 with an m5x12 & washer in order to screw in nozzle probe



1b: EBB36 adxl – canbus

verification run after all test

