

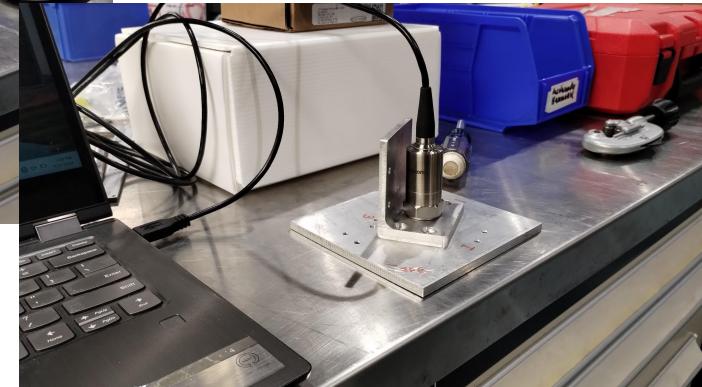
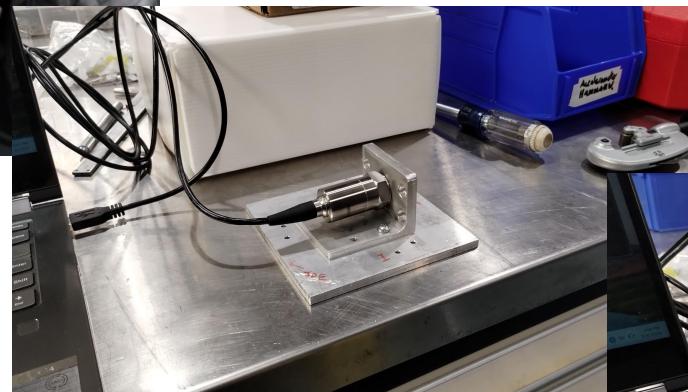
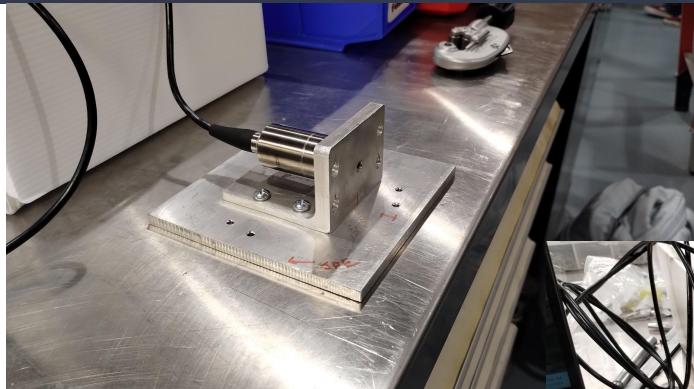
# Vibration Data

2024

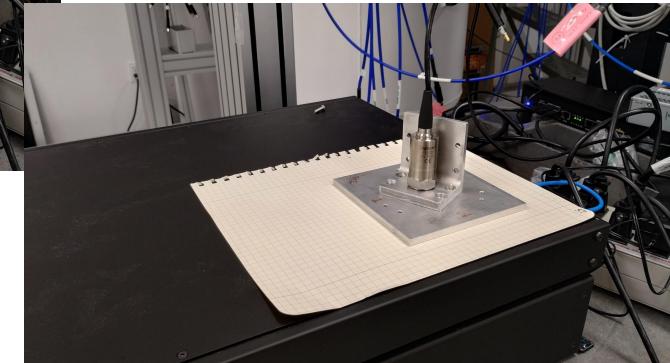
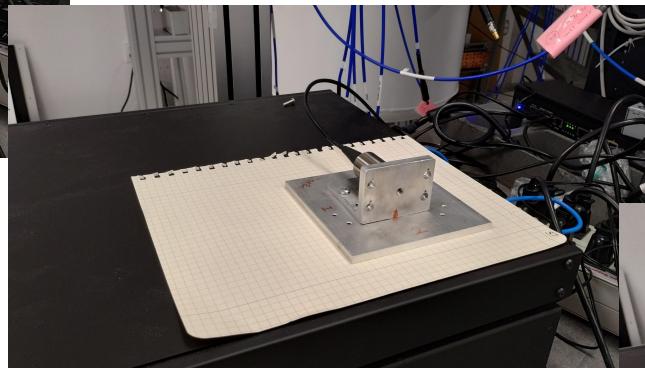
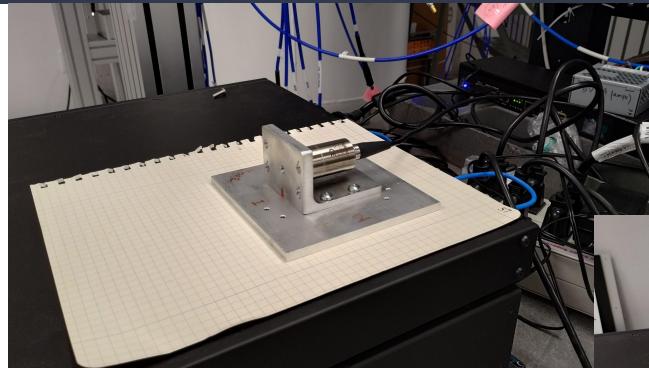
# General Information

- 1(x), 2(y), and 3(z) are the labels for the axes (3/z being vertical)
- Labels with “Off” are taken with the pulse tube off, all other data is with the pulse tube on
- Labels with “SH” are taken on Shawn Henderson’s DR
- “Floor” is data taken on the floor and used as a baseline measurement
- The file “PulseTubeBoard3Off2” should be used instead of “PulseTubeBoard3Off”
- For raw data and code, check the DMQIS GitHub (under Accelerometer Code and Vibration Data under Instrument Control)

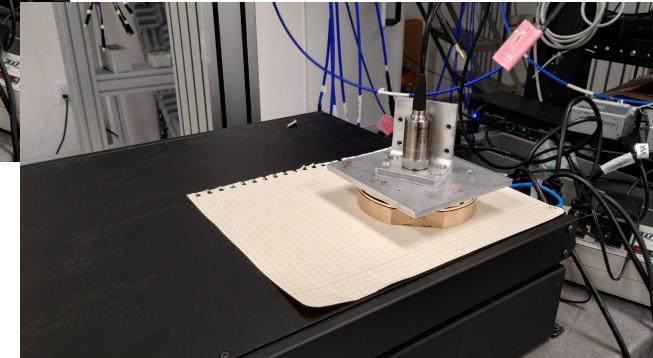
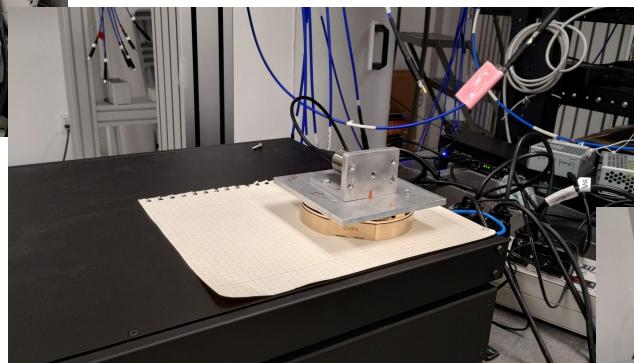
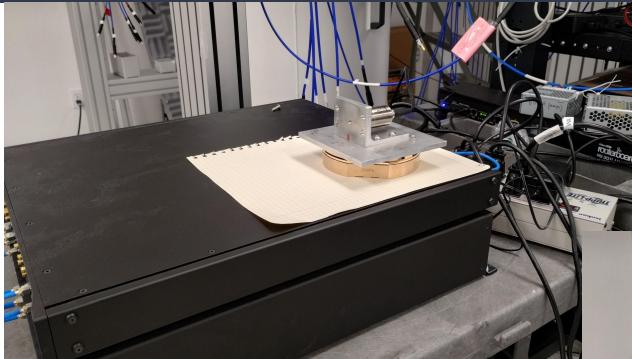
# TableTest



# VibeTest



# VibeIsoTest

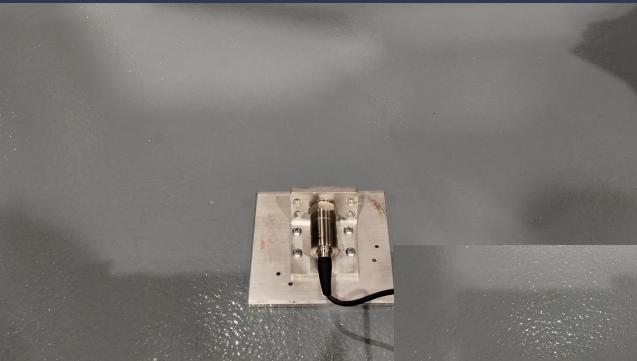


# OLAF

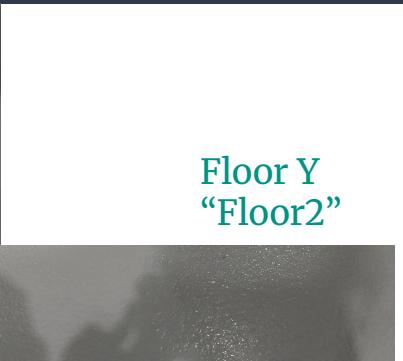
2 Aug. 2024



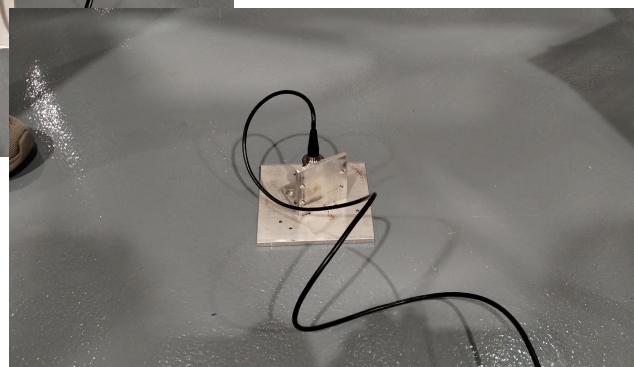
# Floor



Floor X  
“Floor1”



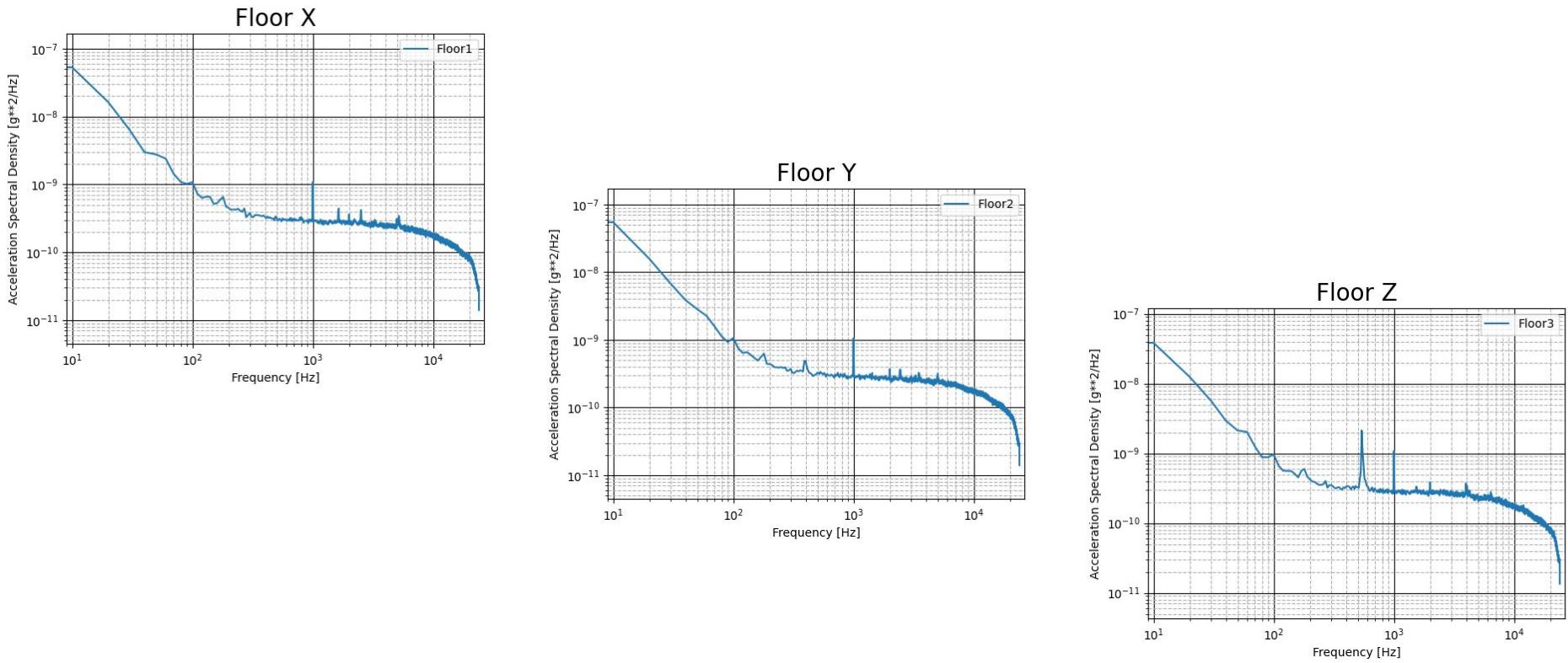
Floor Y  
“Floor2”



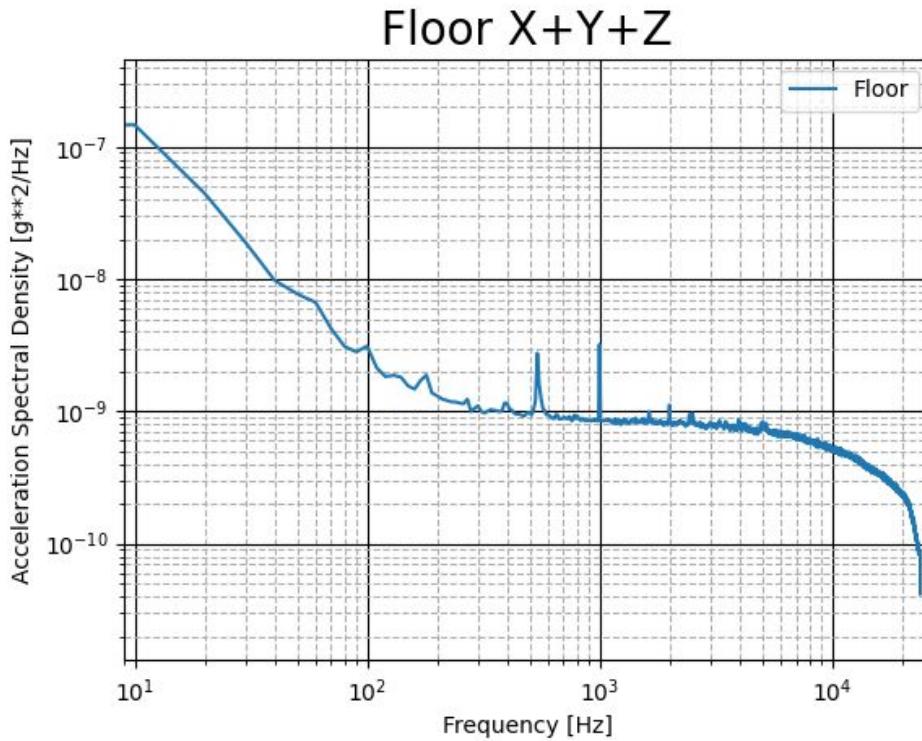
Floor Z  
“Floor3”



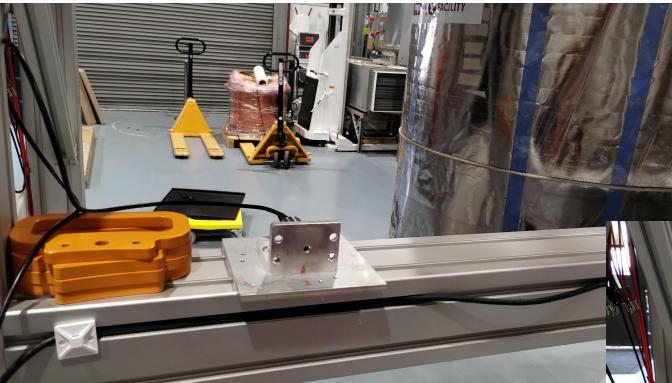
# Floor



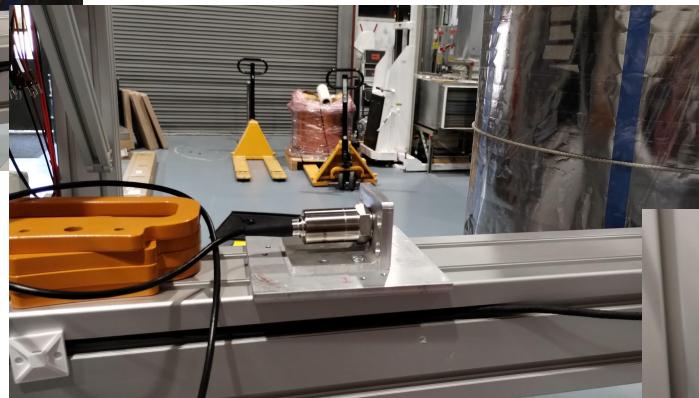
# Floor X+Y+Z



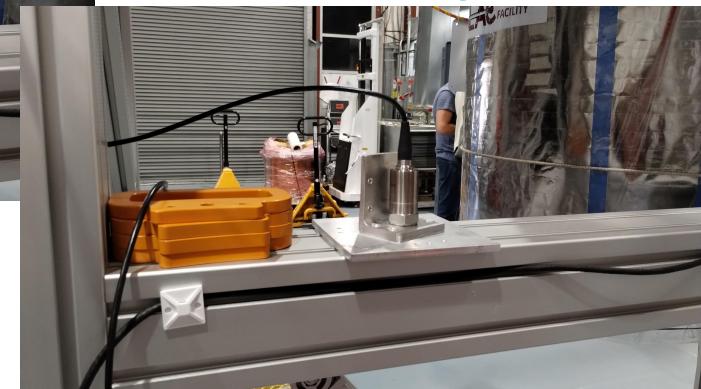
# Fridge Frame



Fridge Frame X  
“FridgeFrame1”

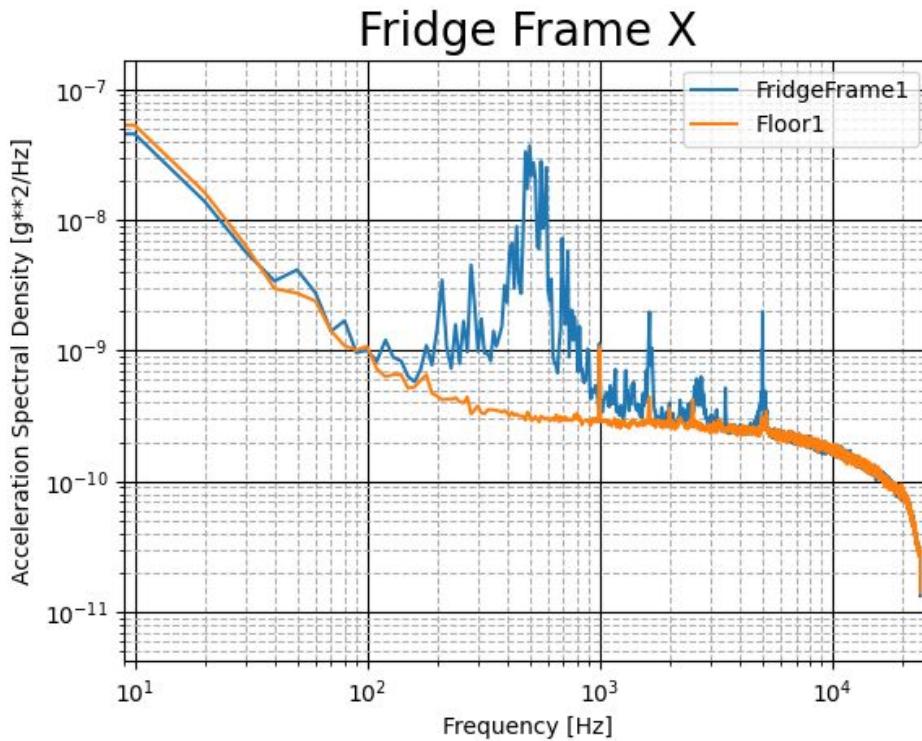


Fridge Frame Y  
“FridgeFrame2”

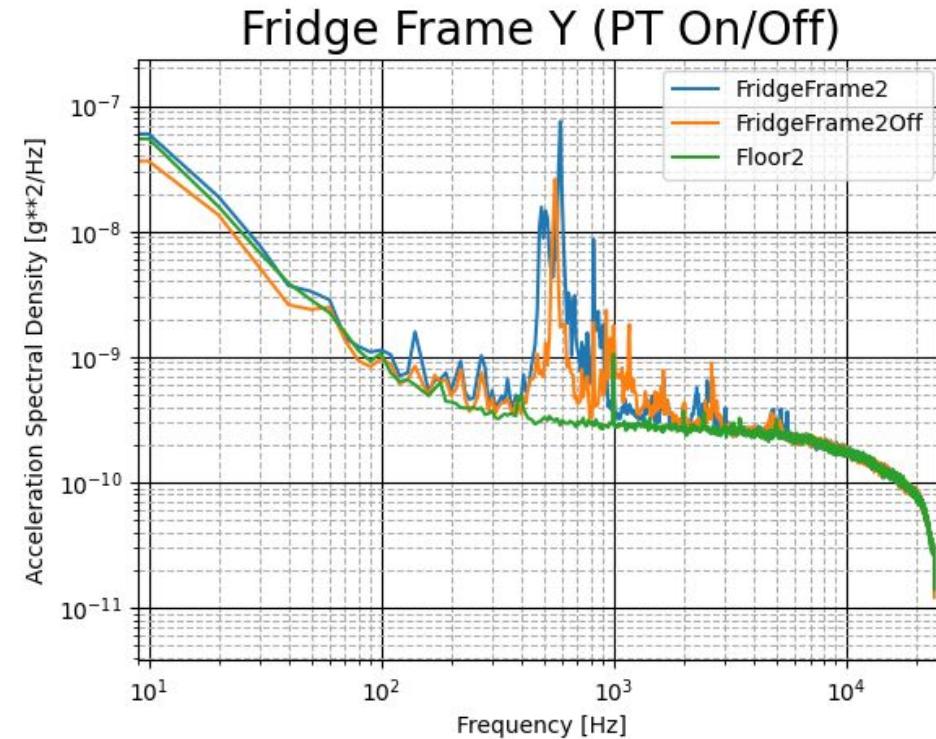


Fridge Frame Z  
“FridgeFrame3”

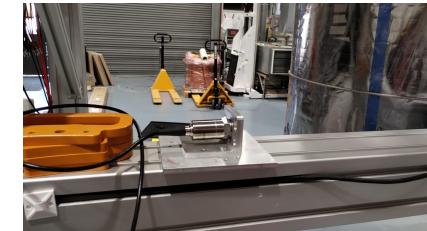
# Fridge Frame X



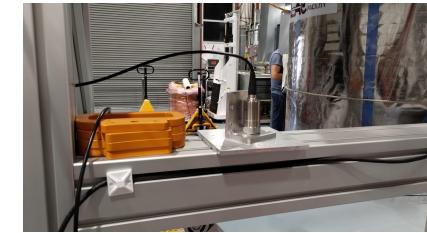
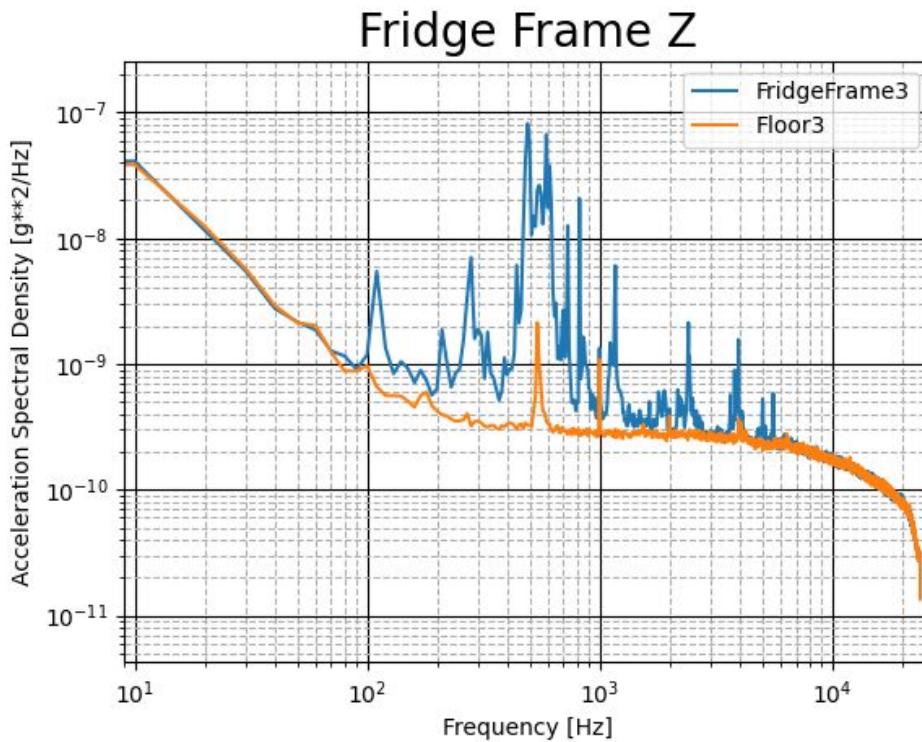
# Fridge Frame Y



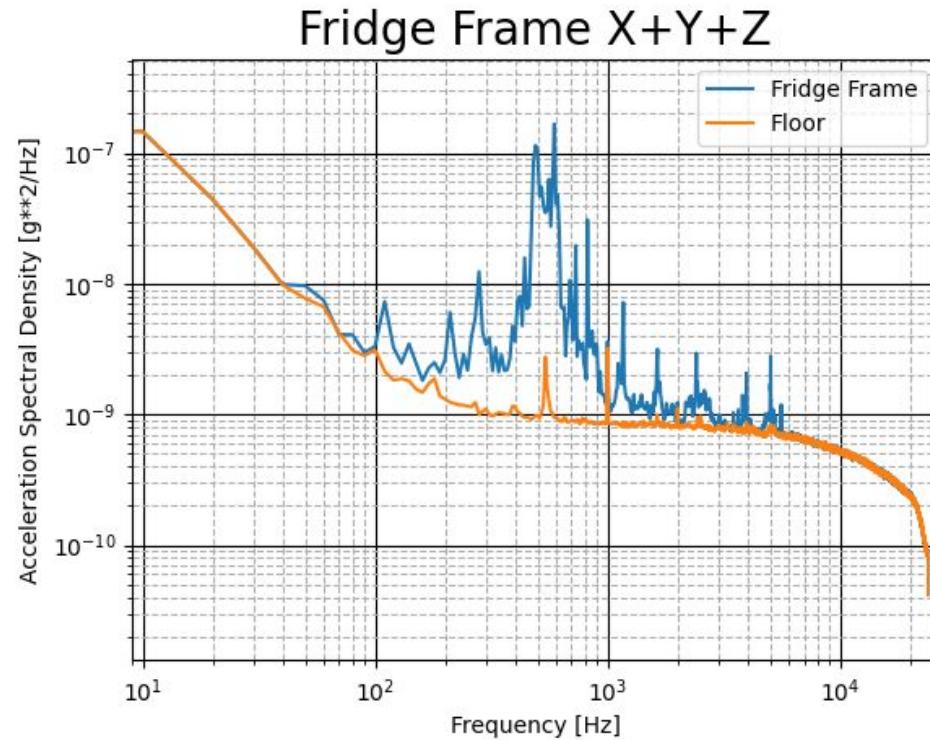
NOTE: Files with “Off” are data collected with the pulse tube off



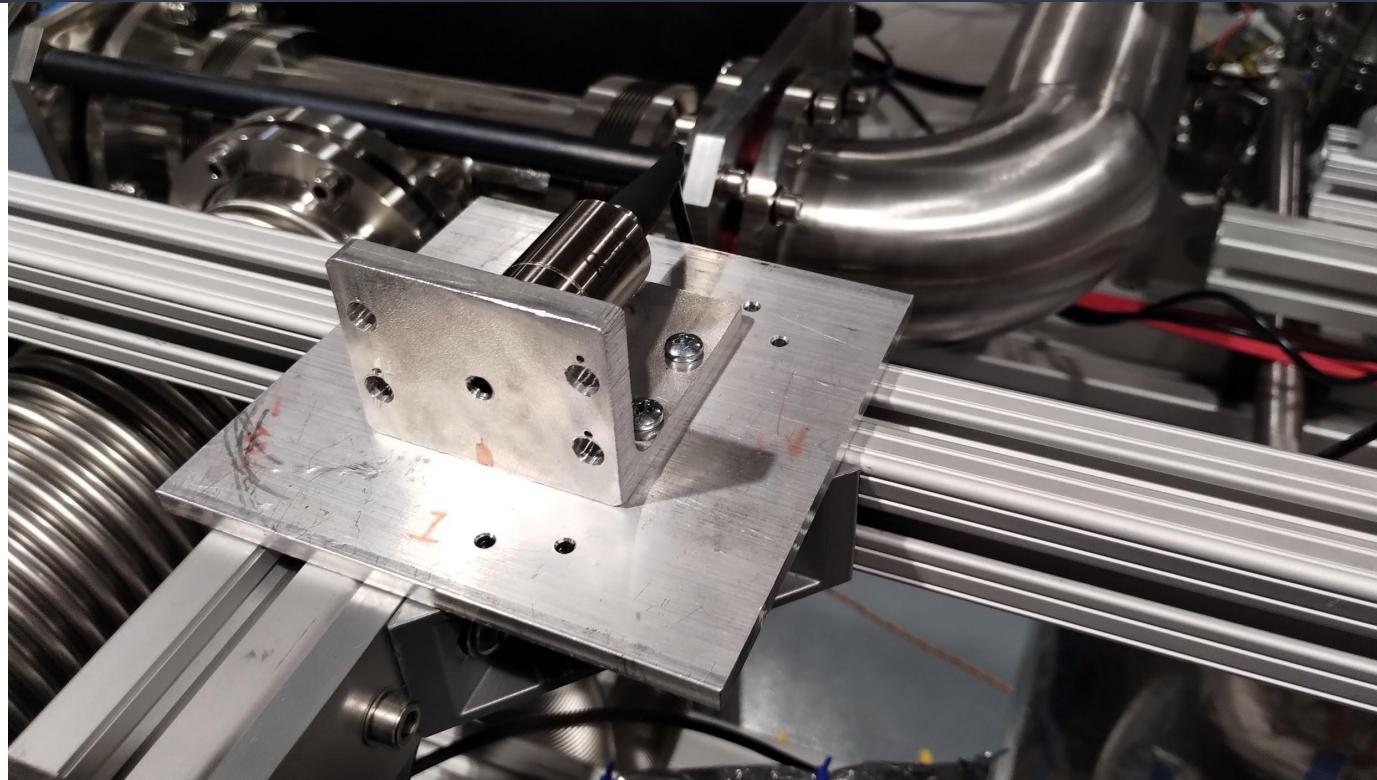
# Fridge Frame Z



# Fridge Frame X+Y+Z



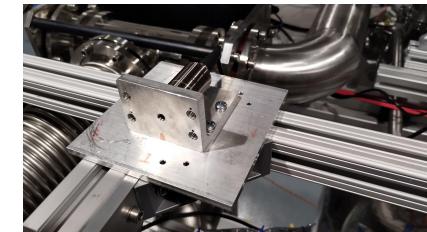
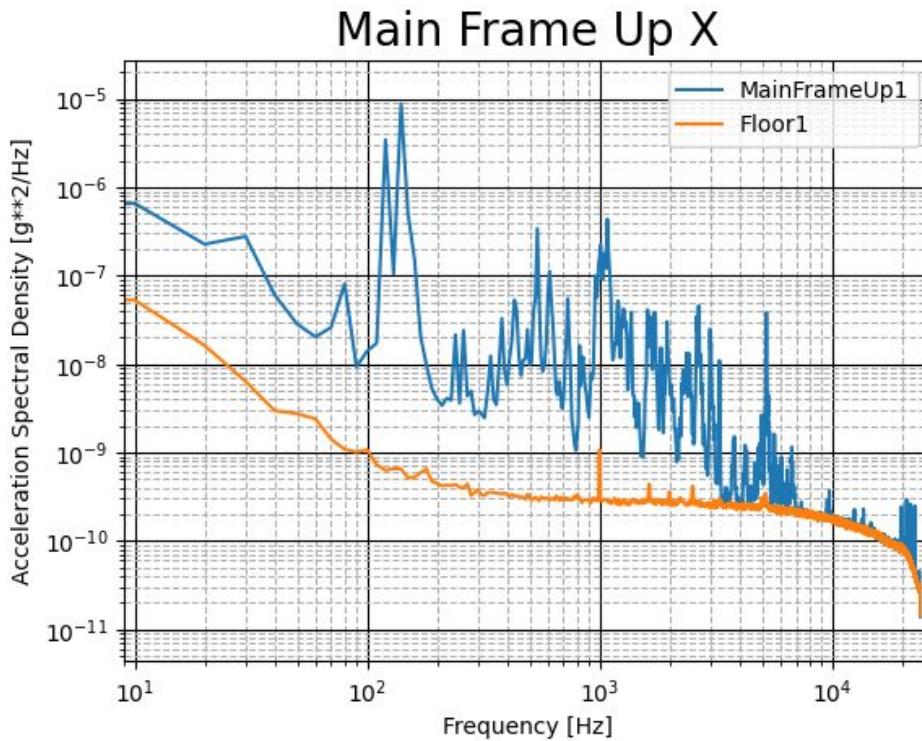
# Main Frame Up



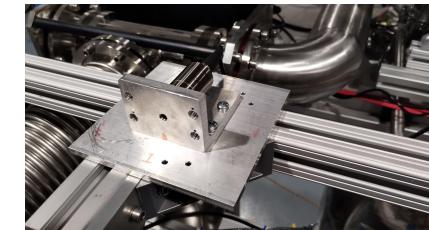
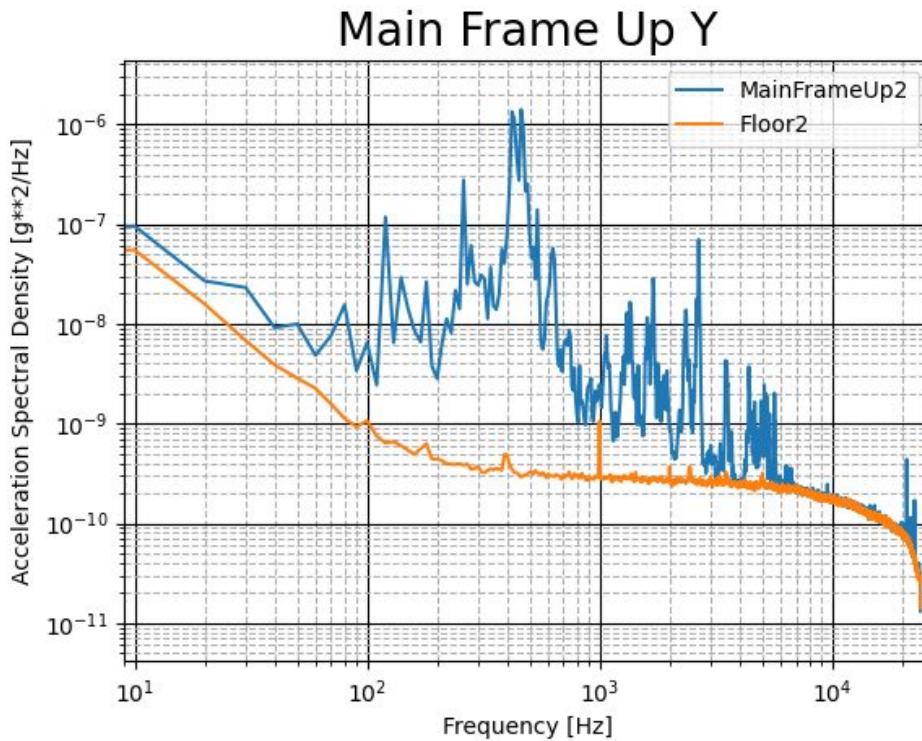
Main Frame Up X/Y/Z  
“MainFrameUp1”  
“MainFrameUp2”  
“MainFrameUp3”

*Same location, different orientations*

# Main Frame Up X

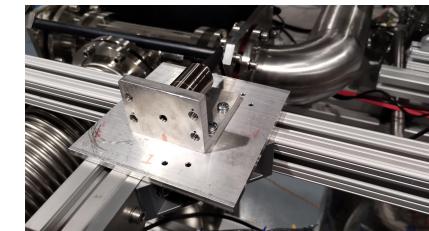
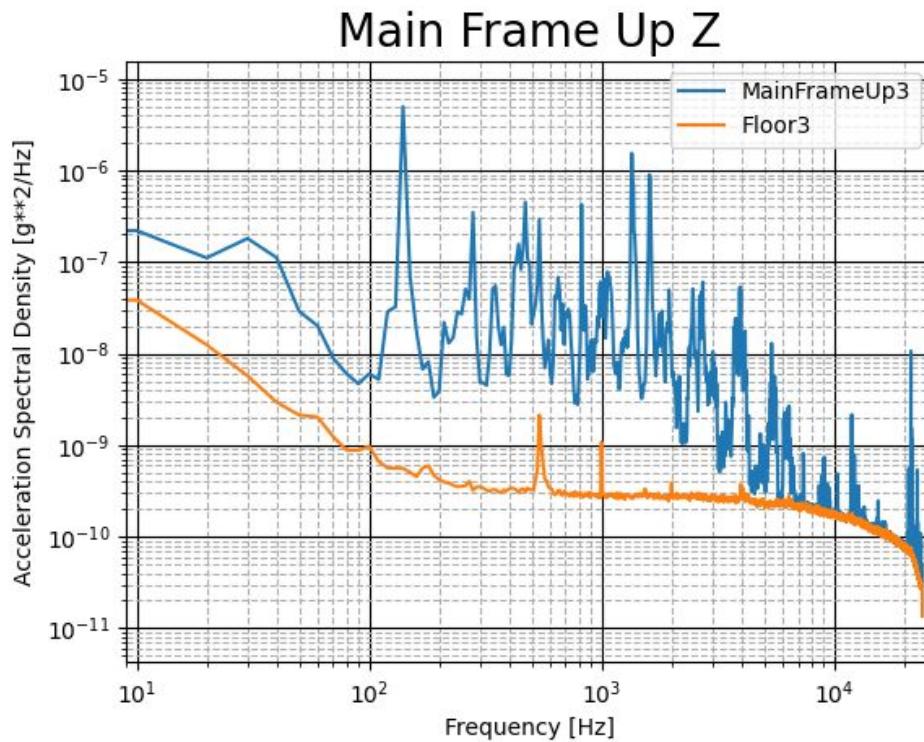


# Main Frame Up Y



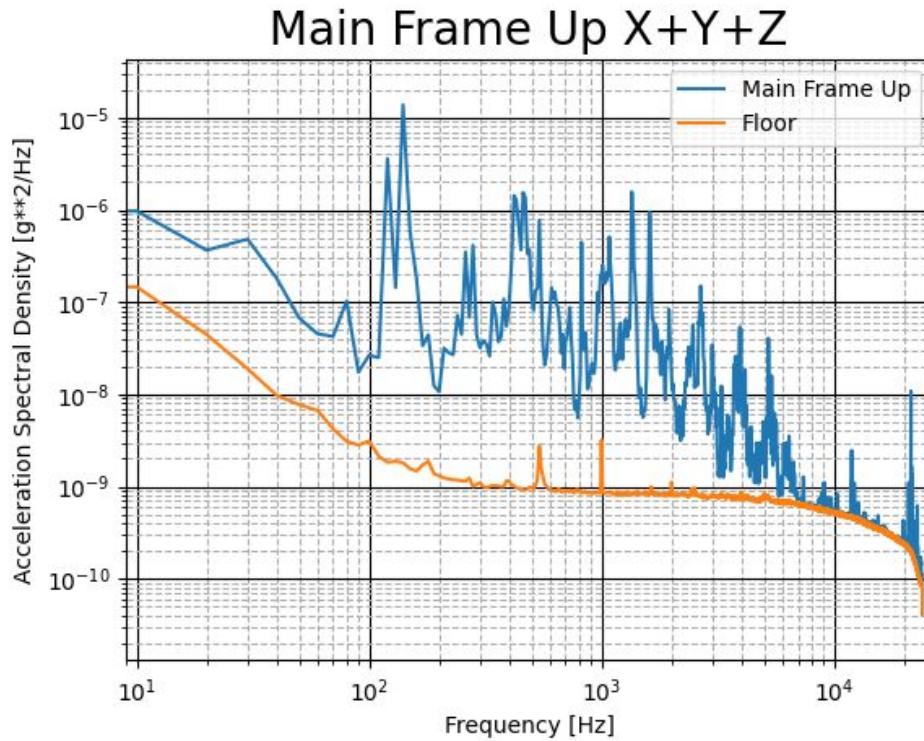
Different orientation

# Main Frame Up Z

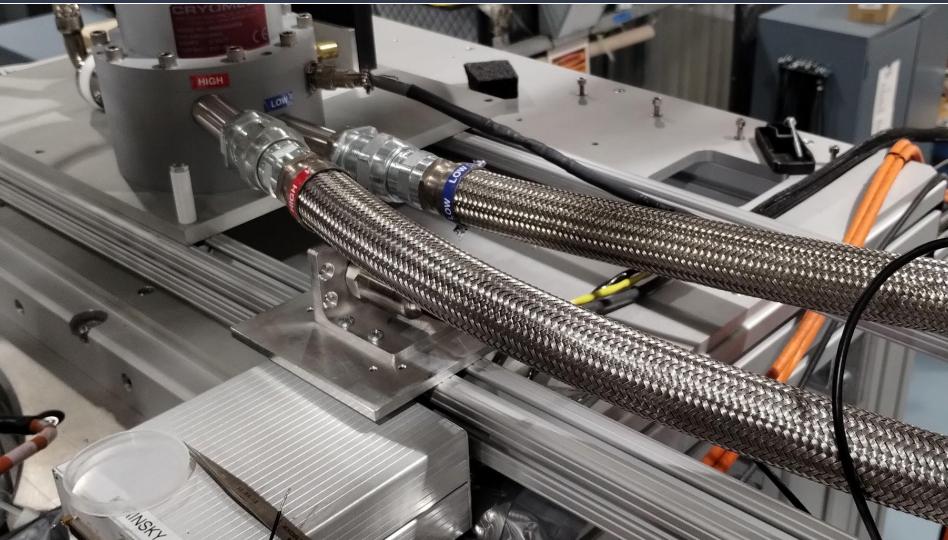


Different orientation

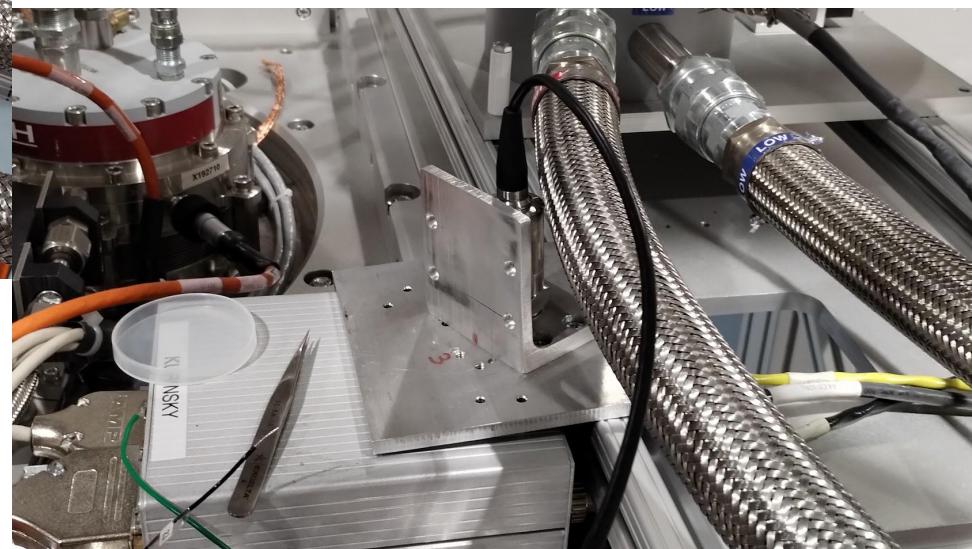
# Main Frame Up X+Y+Z



# Pulse Tube Board

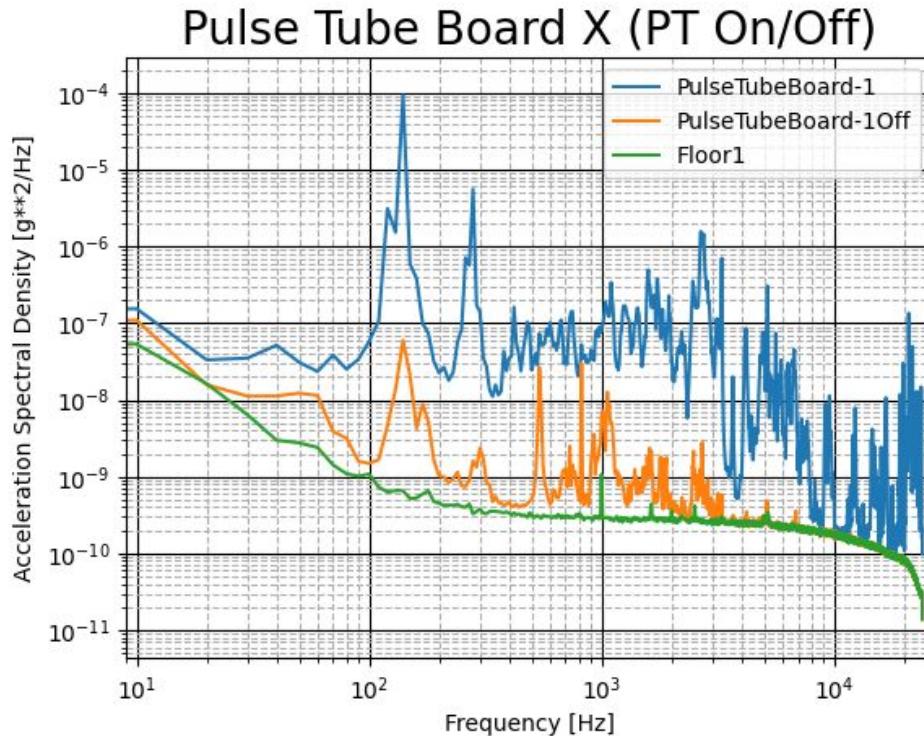


Pulse Tube Board X/Y  
“PulseTubeBoard1”  
“PulseTubeBoard2”



Pulse Tube Board Z  
“PulseTubeBoard3”

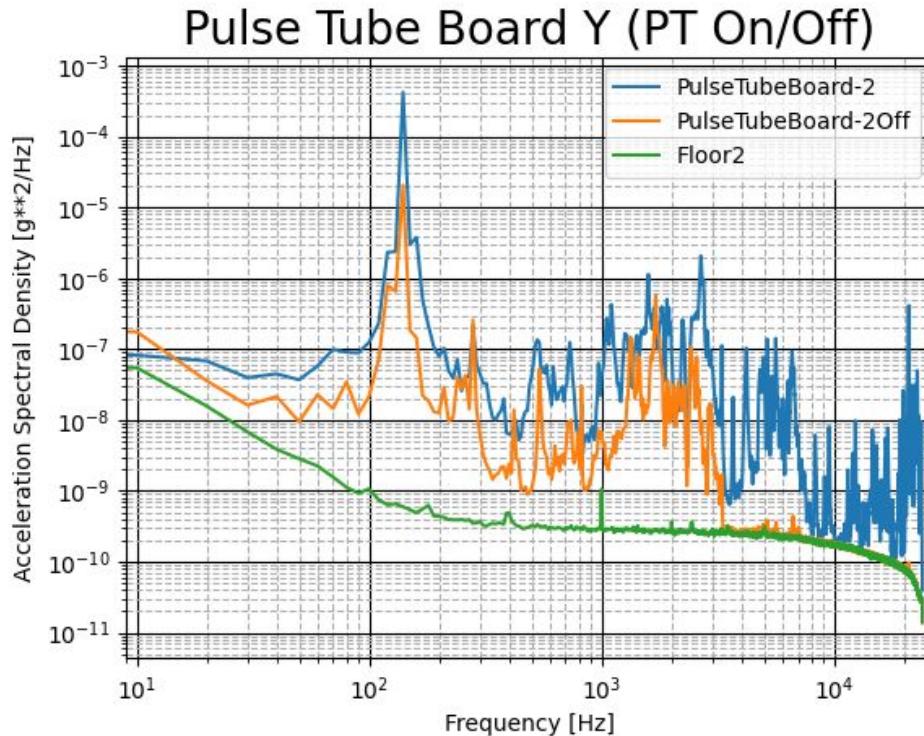
# Pulse Tube Board X



NOTE: Files with “Off”  
are data collected with  
the pulse tube off



# Pulse Tube Board Y

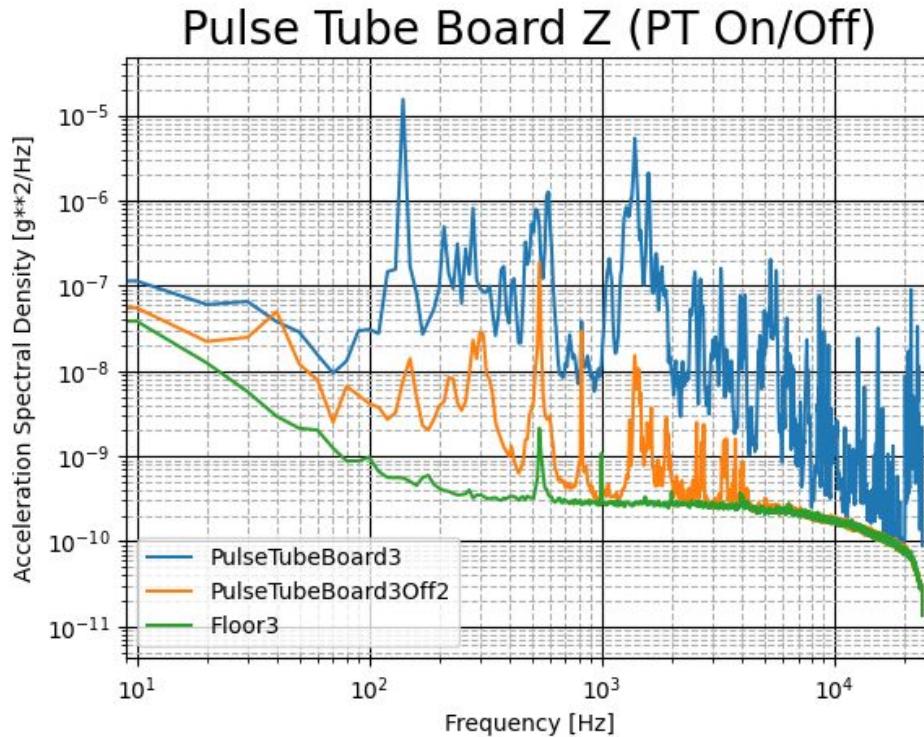


NOTE: Files with “Off”  
are data collected with  
the pulse tube off

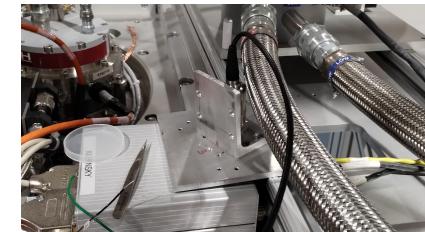


Different orientation

# Pulse Tube Board Z

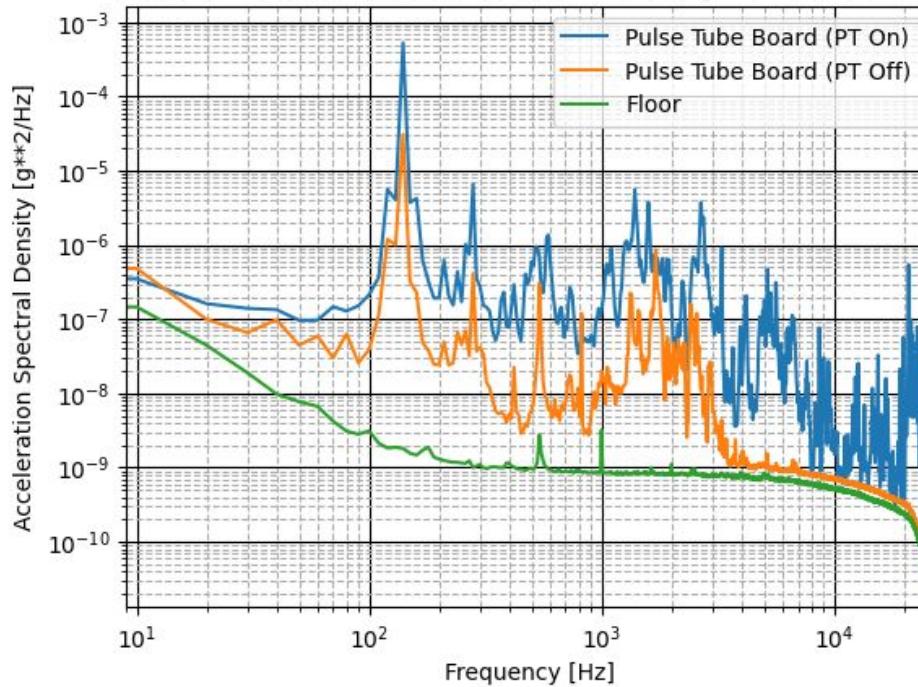


NOTE: Files with “Off” are data collected with the pulse tube off



# Pulse Tube Board X+Y+Z

Pulse Tube Board X+Y+Z (PT On/Off)



# Shawn Henderson's Dilution Refrigerator (SH)

20 Aug. 2024

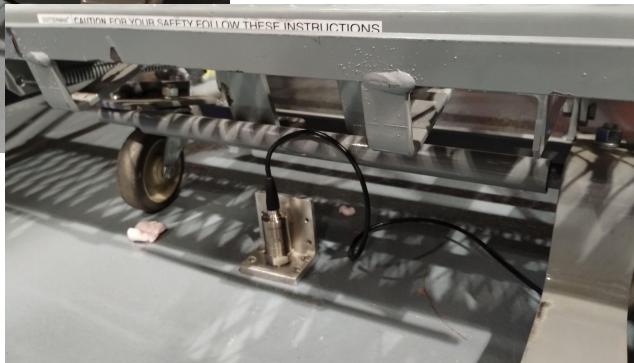
# Floor (SH)



Floor (SH) X  
“SHFloor1”



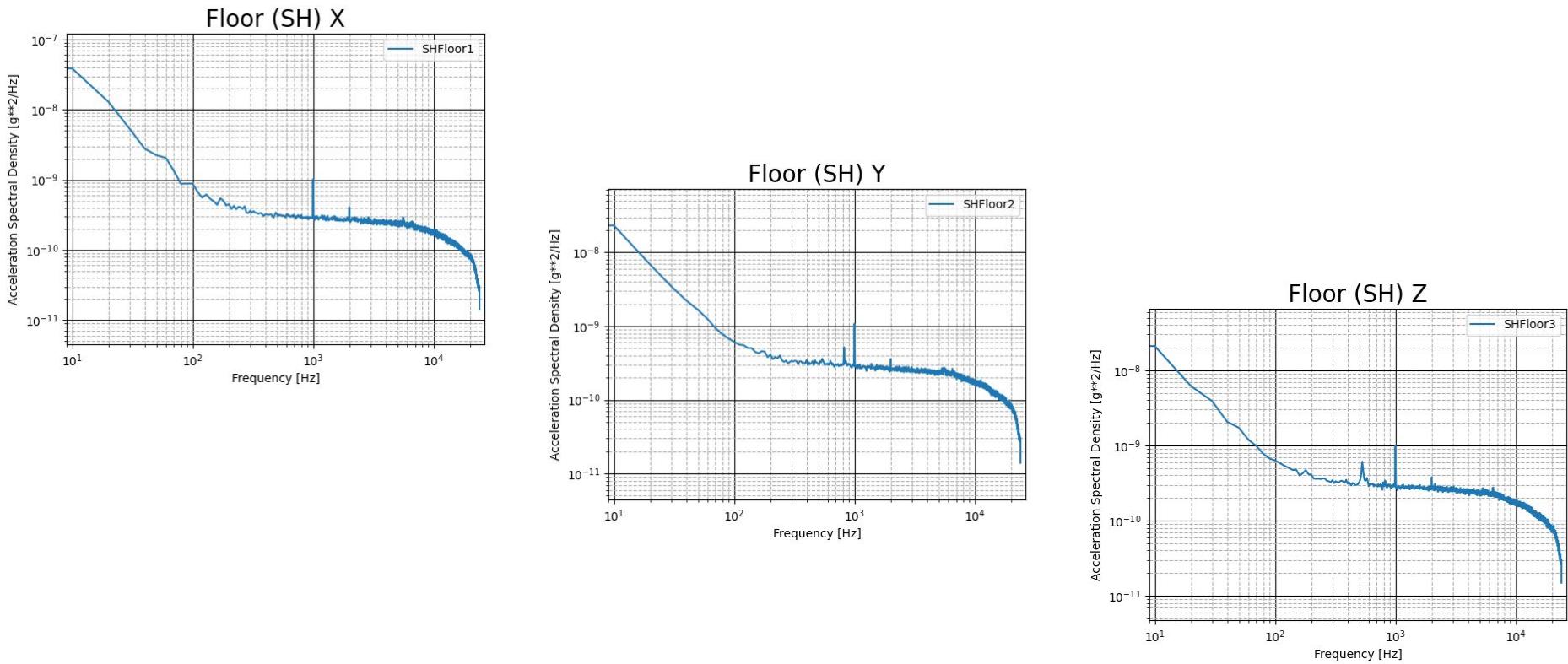
Floor (SH) Y  
“SHFloor2”



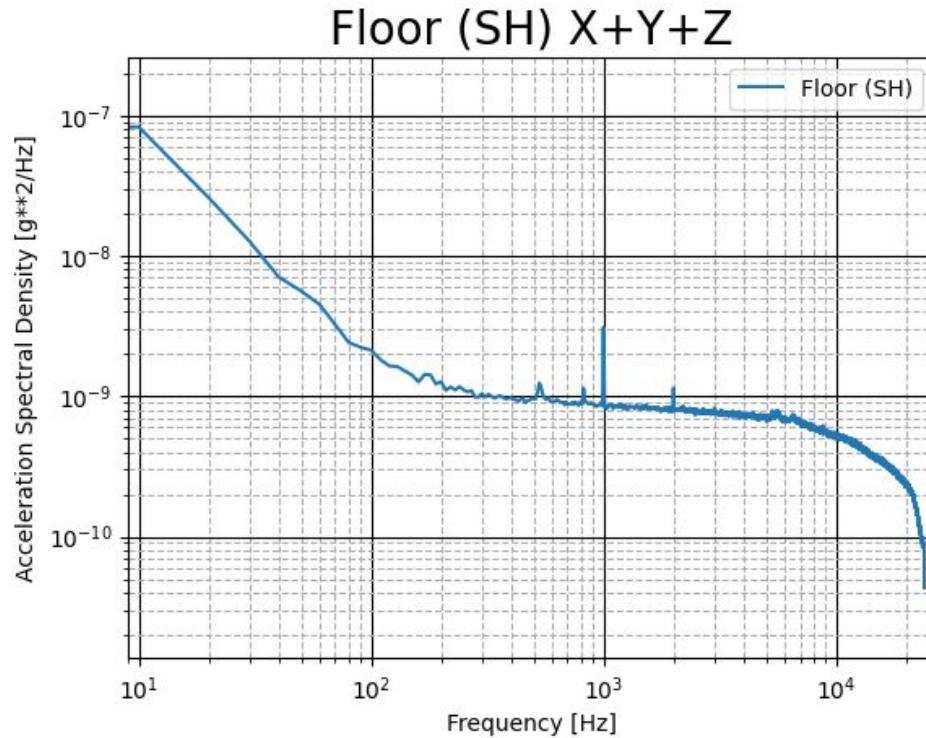
Floor (SH) Z  
“SHFloor3”



# Floor (SH)



# Floor (SH) X+Y+Z



# Frame Down (SH)



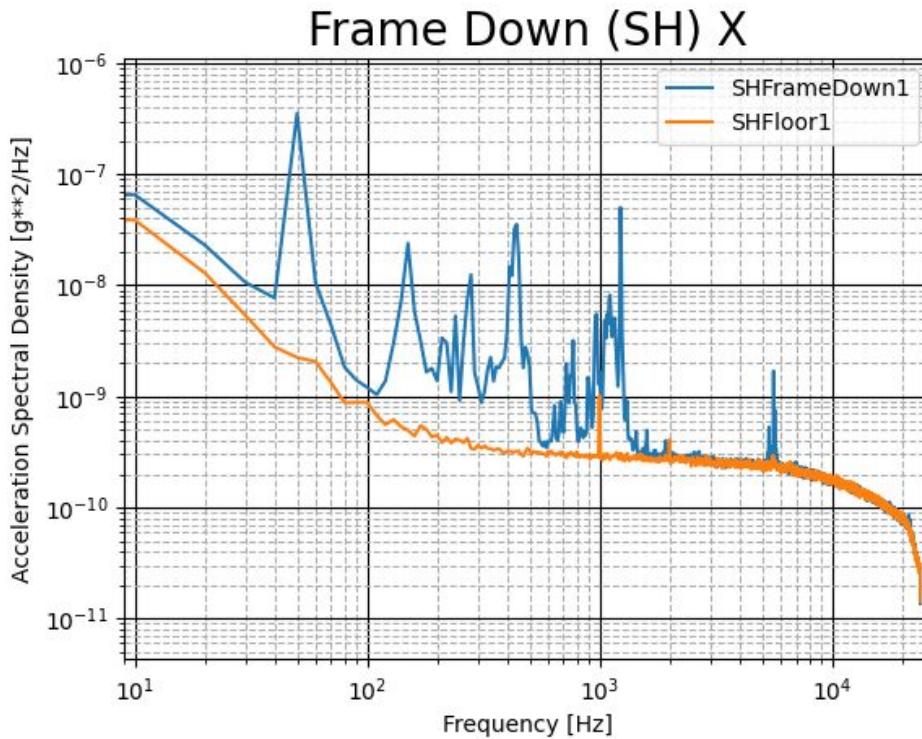
Frame Down (SH) X  
“SHFrameDown1”

Frame Down (SH) Y  
“SHFrameDown2”

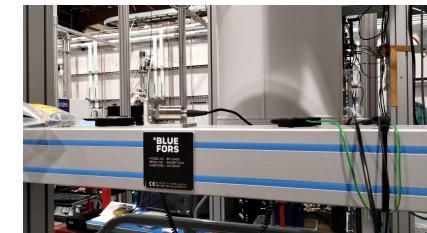
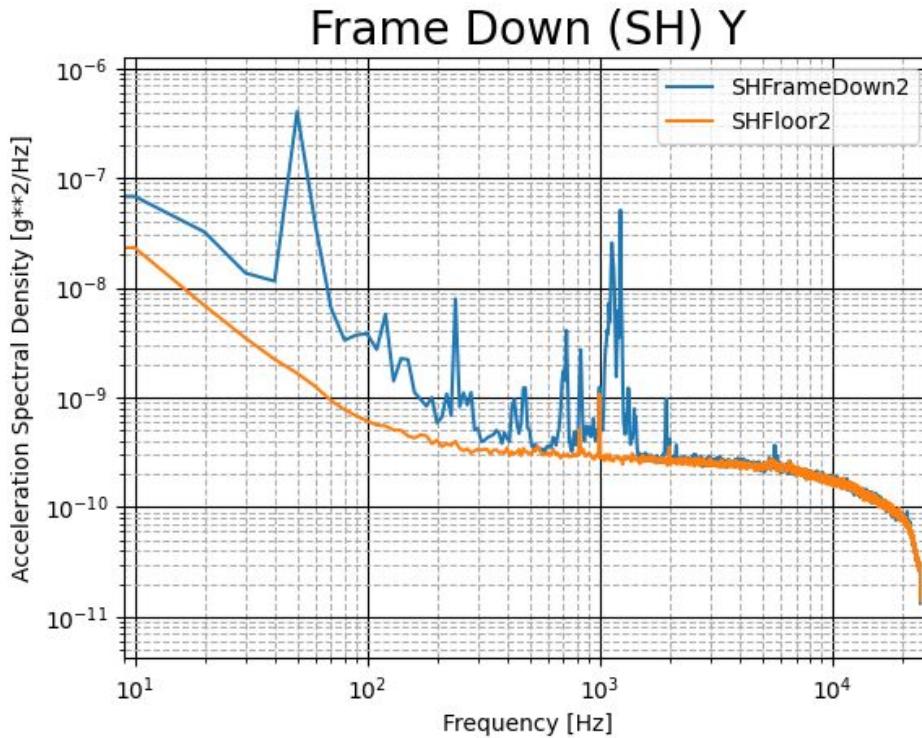


Frame Down (SH) Z  
“SHFrameDown3”  
*Same location,  
different orientation*

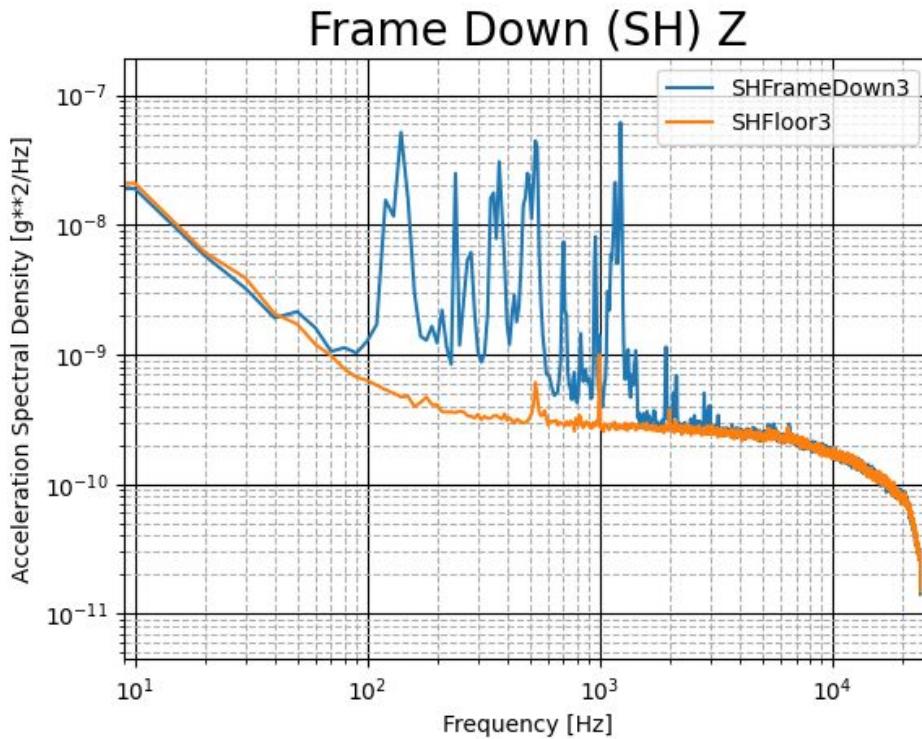
# Frame Down (SH) X



# Frame Down (SH) Y

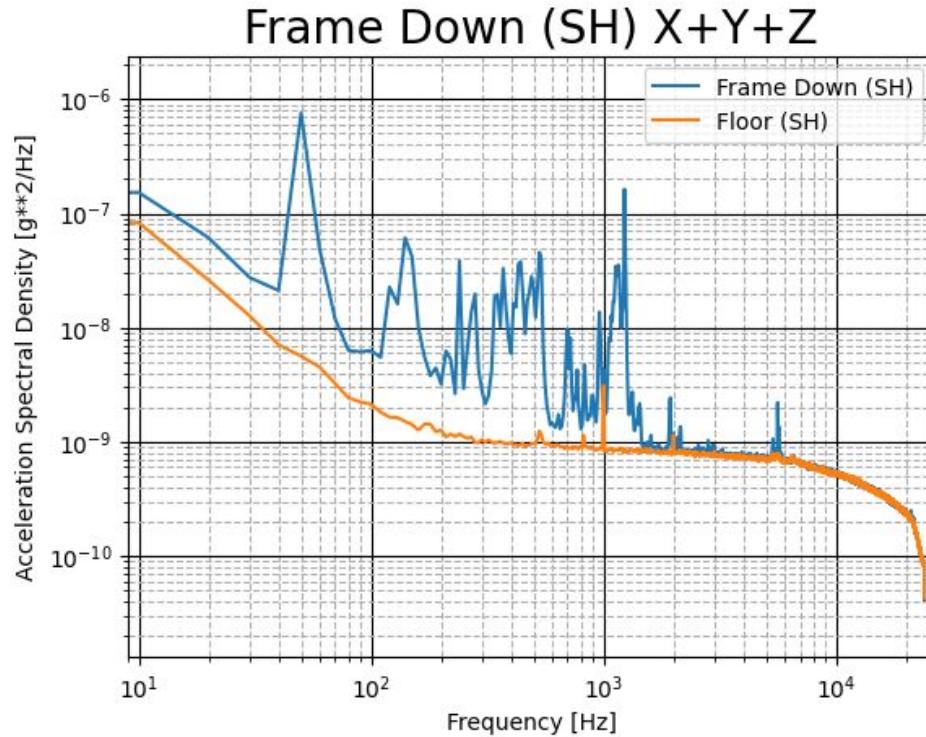


# Frame Down (SH) Z

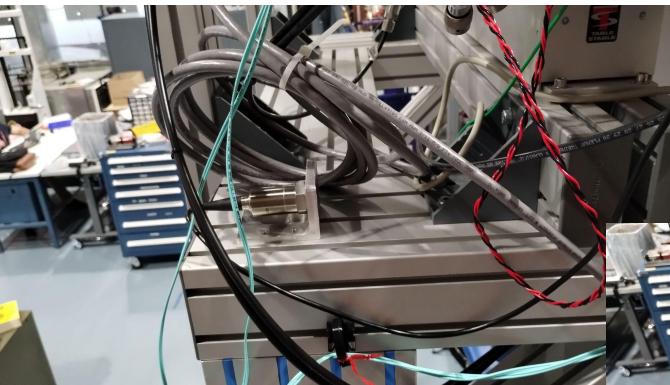


Different orientation

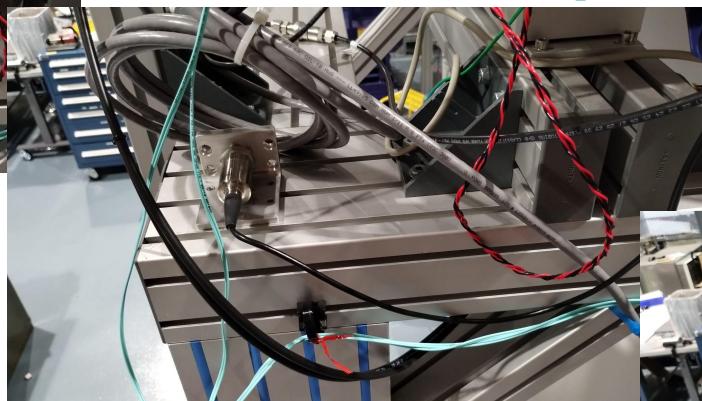
# Frame Down (SH) X+Y+Z



# Frame Up (SH)



Frame Up (SH) X  
“SHFrameUp1”



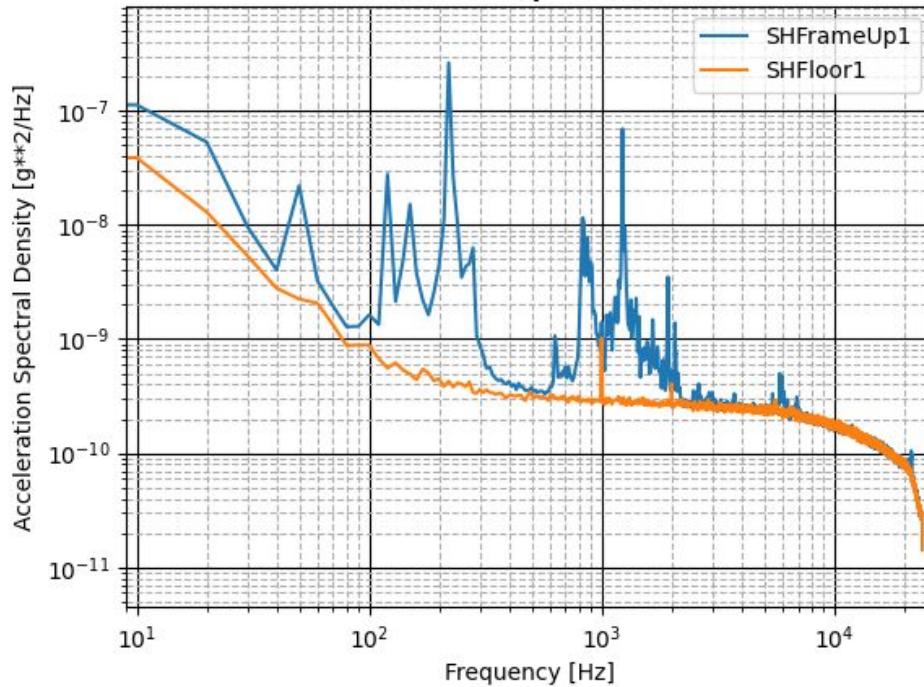
Frame Up (SH) Y  
“SHFrameUp2”



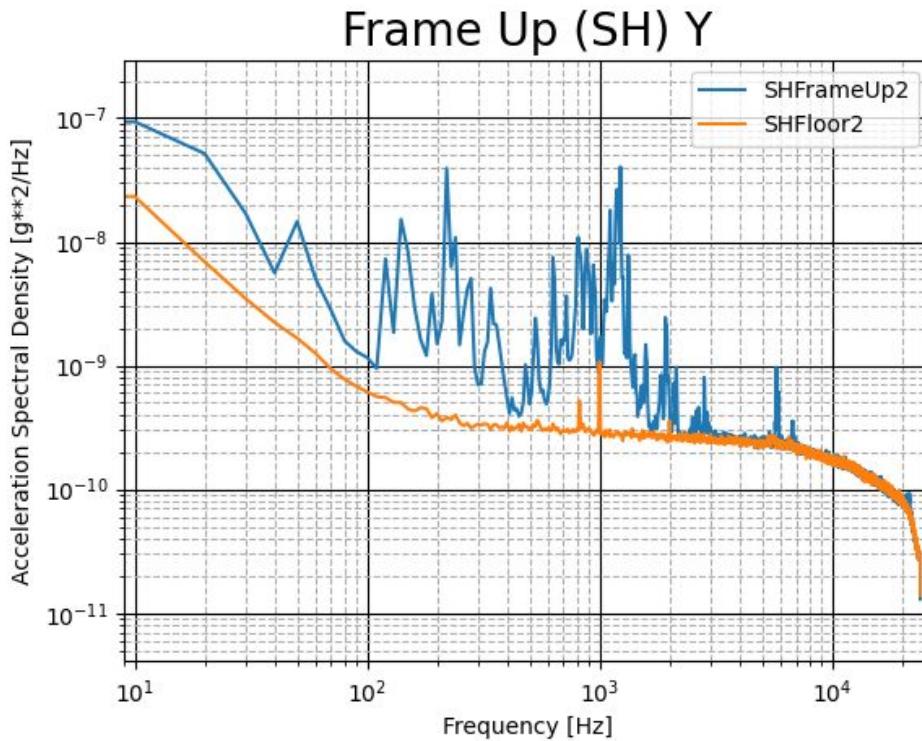
Frame Up (SH) Z  
“SHFrameUp3”

# Frame Up (SH) X

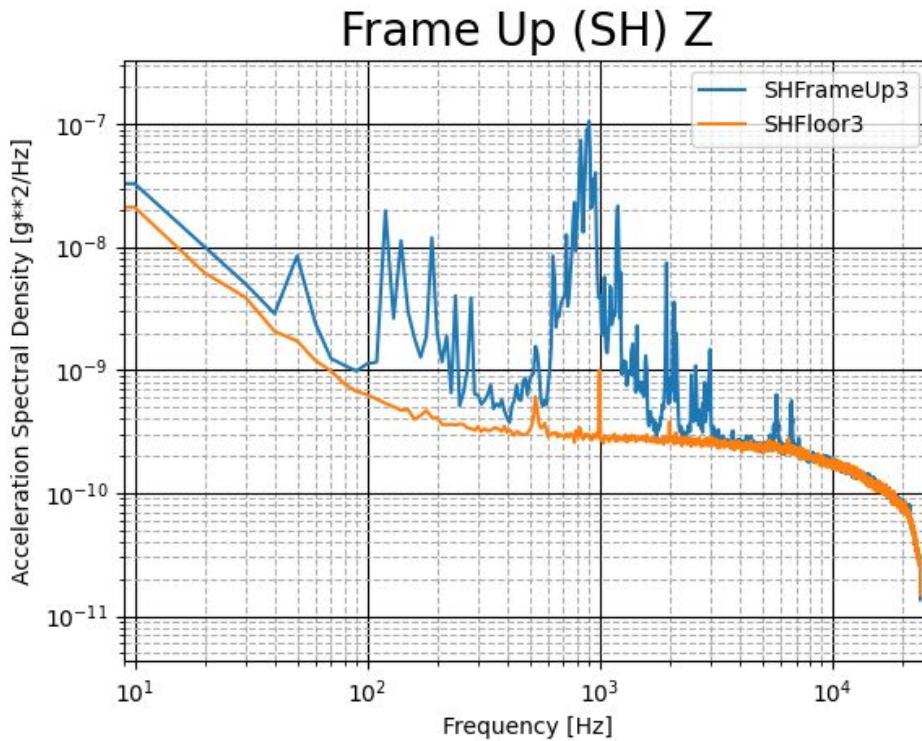
Frame Up (SH) X



# Frame Up (SH) Y

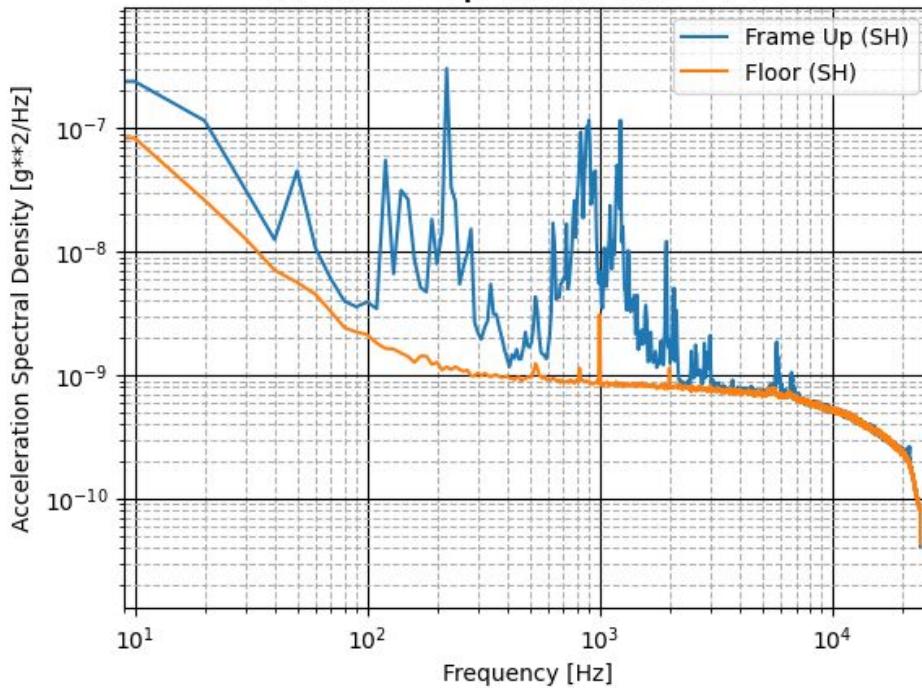


# Frame Up (SH) Z



# Frame Up (SH) X+Y+Z

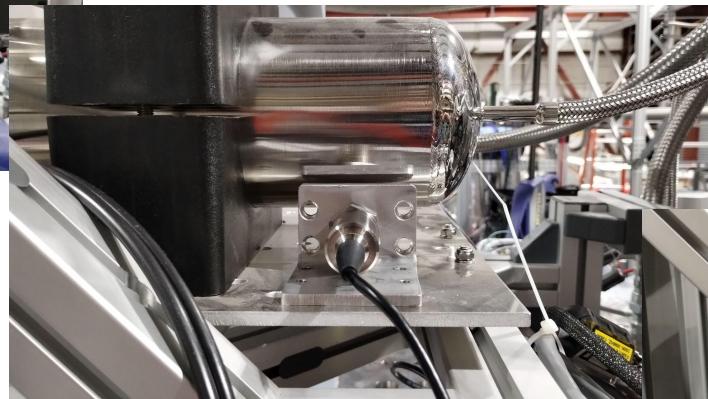
Frame Up (SH) X+Y+Z



# Pulse Tube Board (SH)



Pulse Tube Board (SH) X  
“SHPulseTubeBoard1”

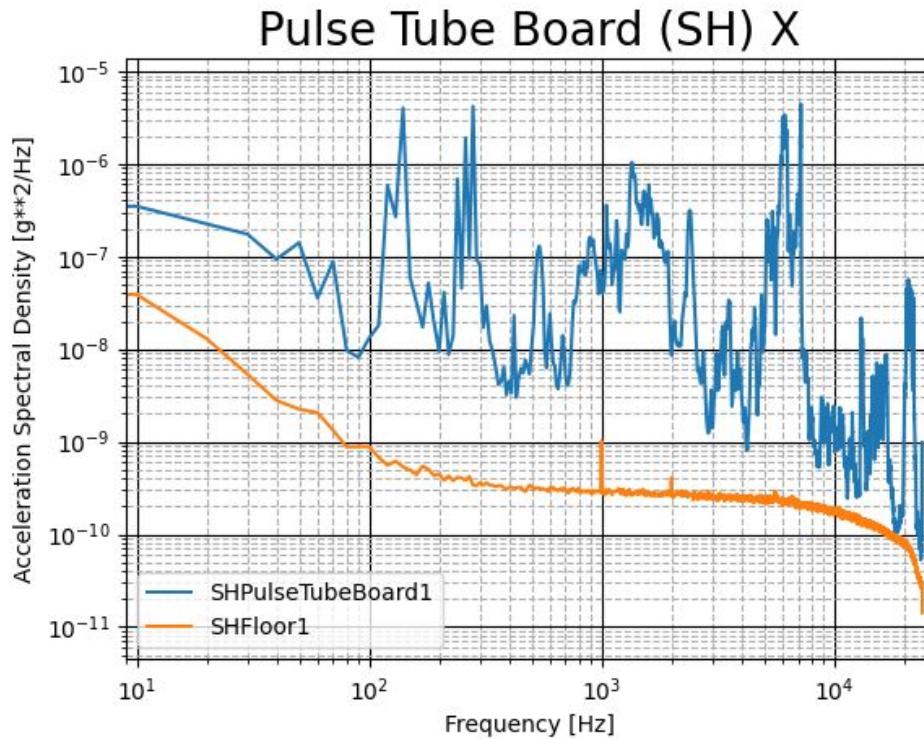


Pulse Tube Board (SH) Y  
“SHPulseTubeBoard2”

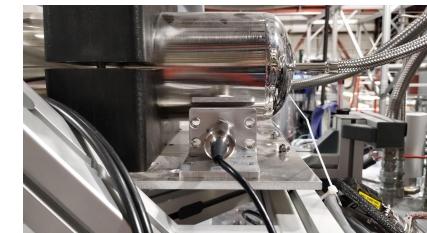
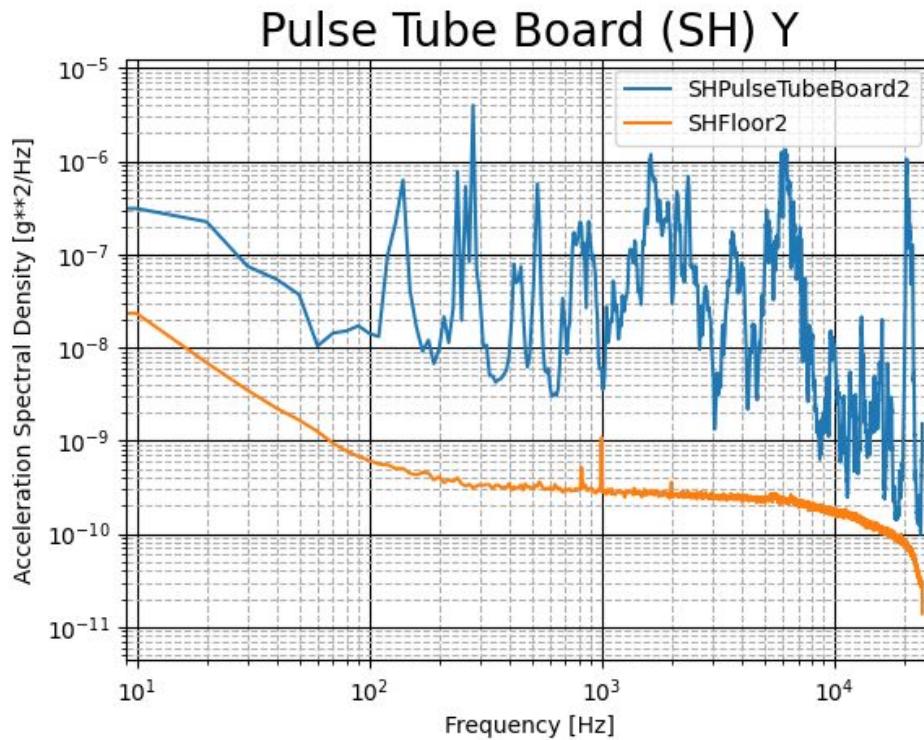


Pulse Tube Board (SH) Z  
“SHPulseTubeBoard3”

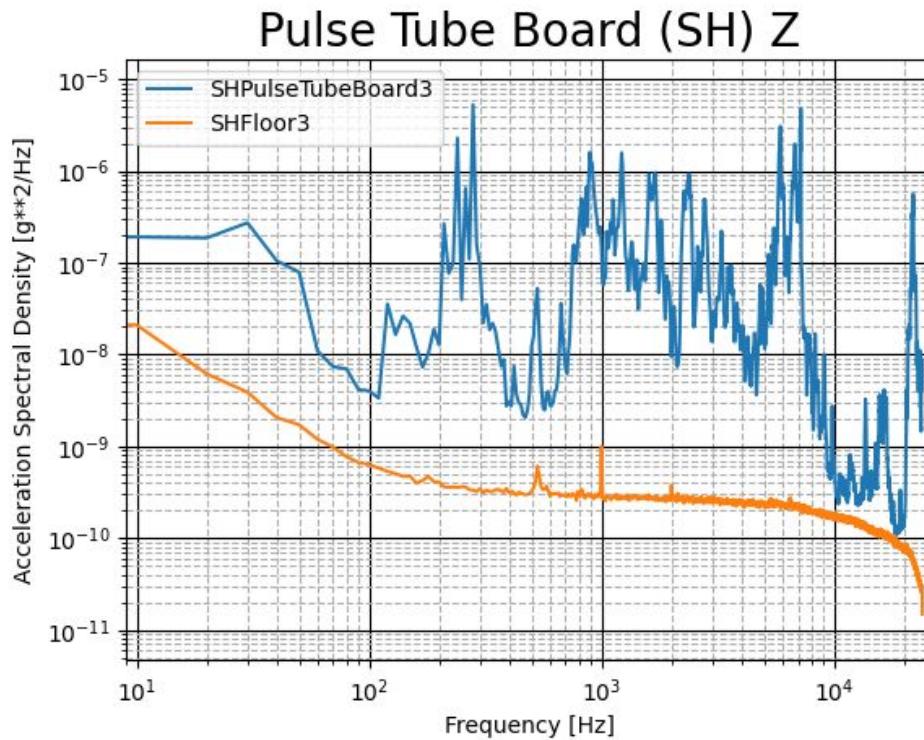
# Pulse Tube Board (SH) X



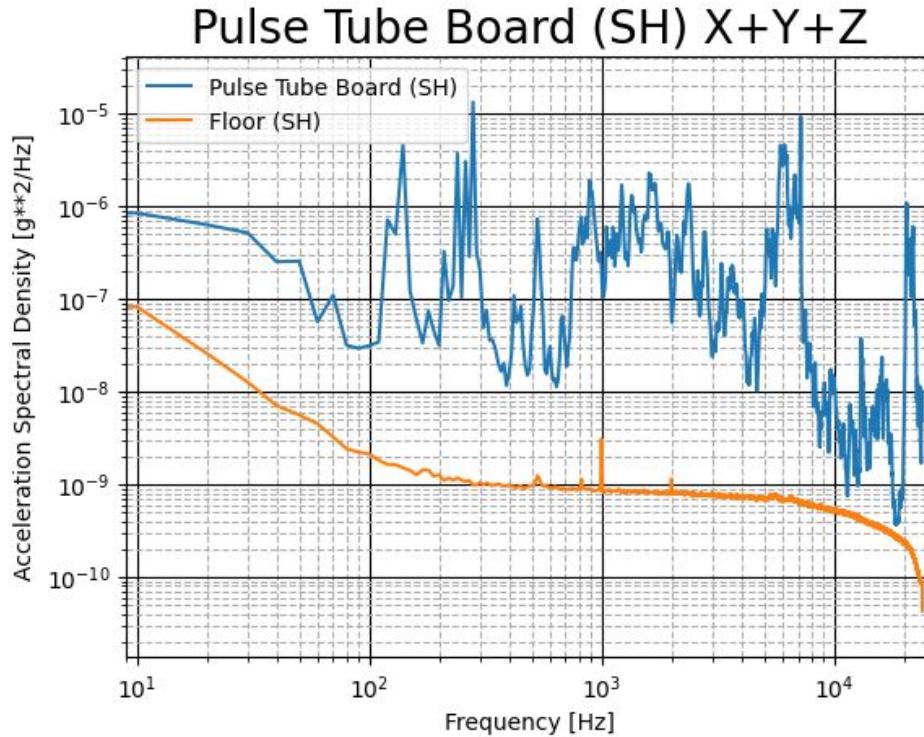
# Pulse Tube Board (SH) Y



# Pulse Tube Board (SH) Z



# Pulse Tube Board (SH) X+Y+Z



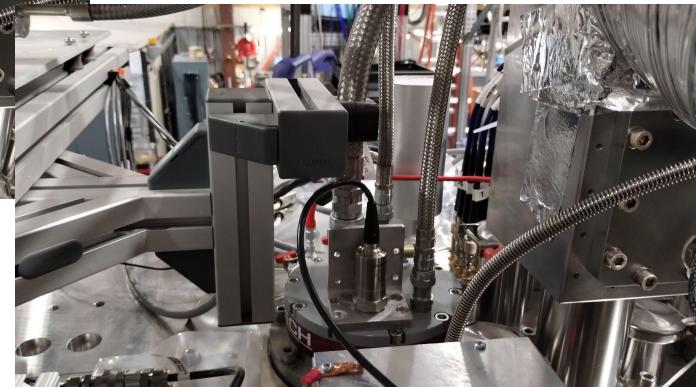
# Fridge Top (SH)



Fridge Top (SH) X  
“SHTop1”



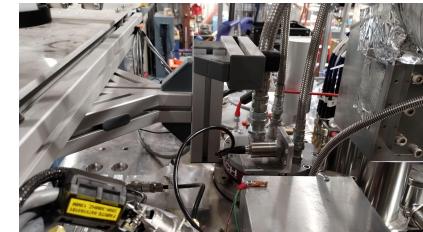
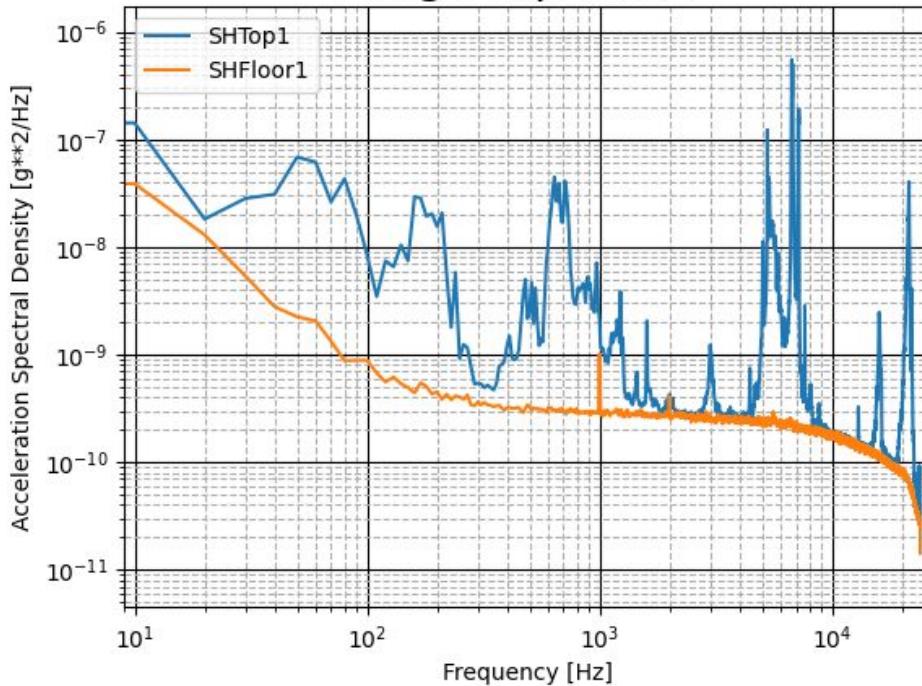
Fridge Top (SH) Y  
“SHTop2”



Fridge Top (SH) Z  
“SHTop3”

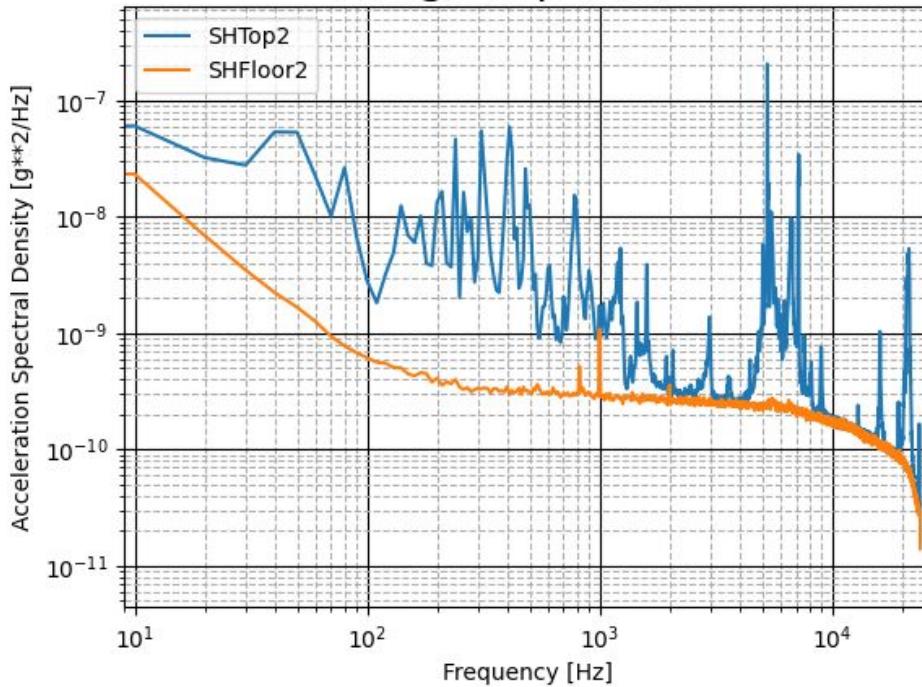
# Fridge Top (SH) X

Fridge Top (SH) X



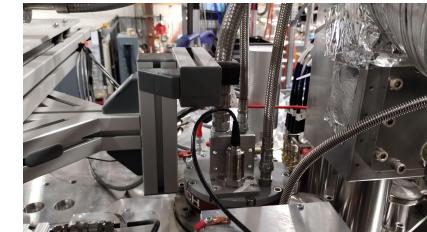
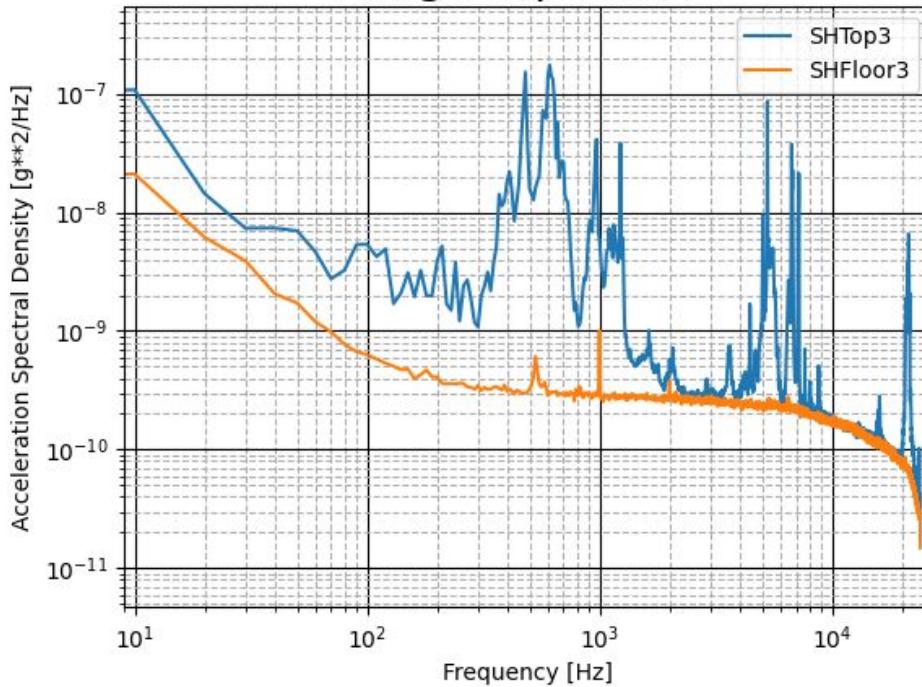
# Fridge Top (SH) Y

Fridge Top (SH) Y



# Fridge Top (SH) Z

Fridge Top (SH) Z



# Fridge Top (SH) X+Y+Z

