

Peak seaching for IXV and power supply

mori

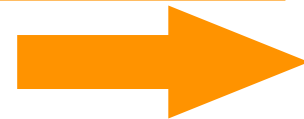
2019/10/15

PEMmeeting

member : Yokozawa ,Mori
day : 2019/10/11
area : around IXV

purpose

1, We searched the peak noise of the IXV seismometer.



19.25~20.25Hz, 23Hz, 24Hz, 26~32Hz

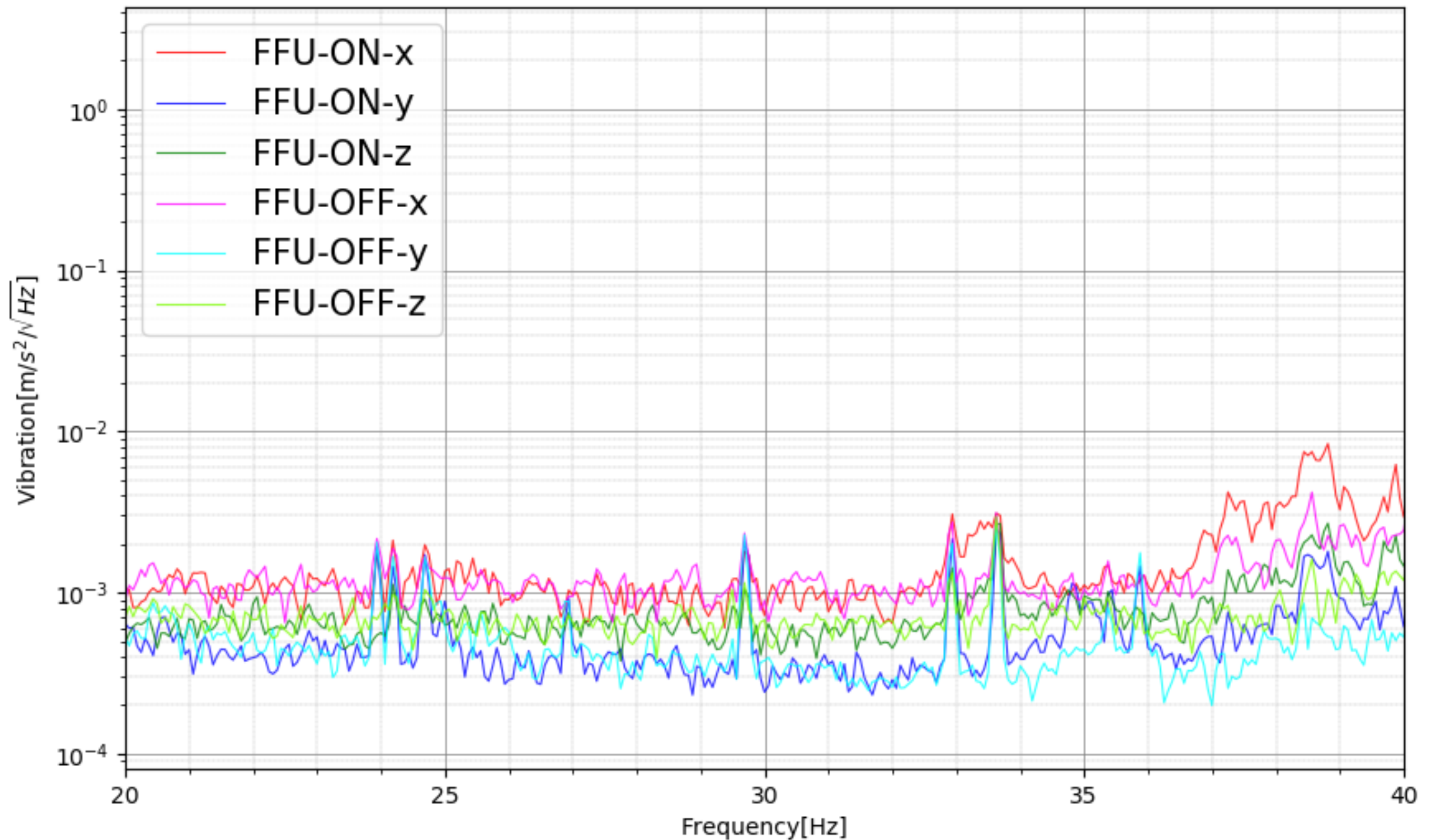
High coherence with interfering signals(Bruco)

2, We measured the vibration of Power supply , A/A chassis

method

We searched for noise using a portable microphone and accelerometer.

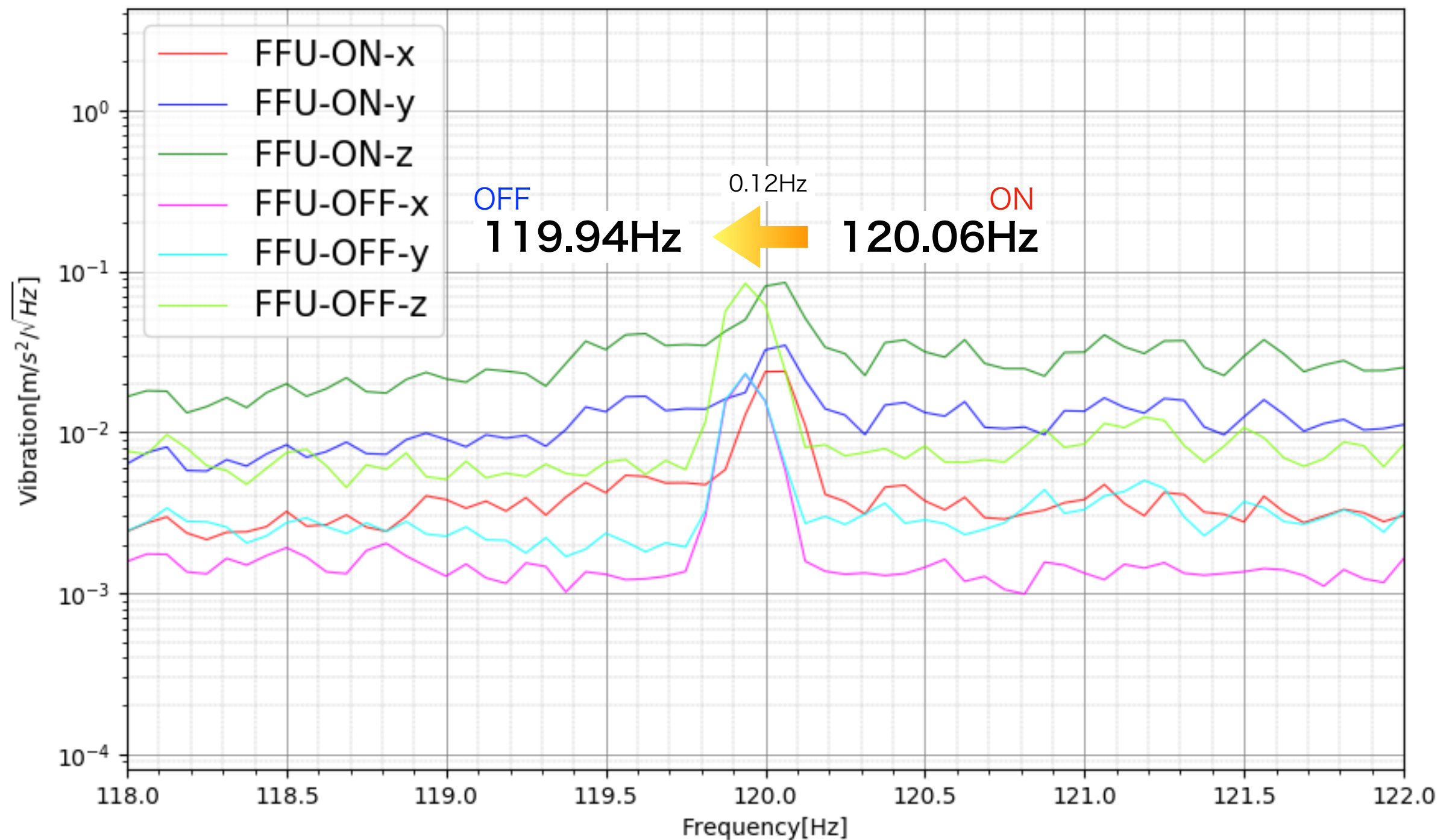
compare FFU ON and OFF



19.25~20.25Hz, 23Hz, 24Hz, 26~32Hz is not from FFU

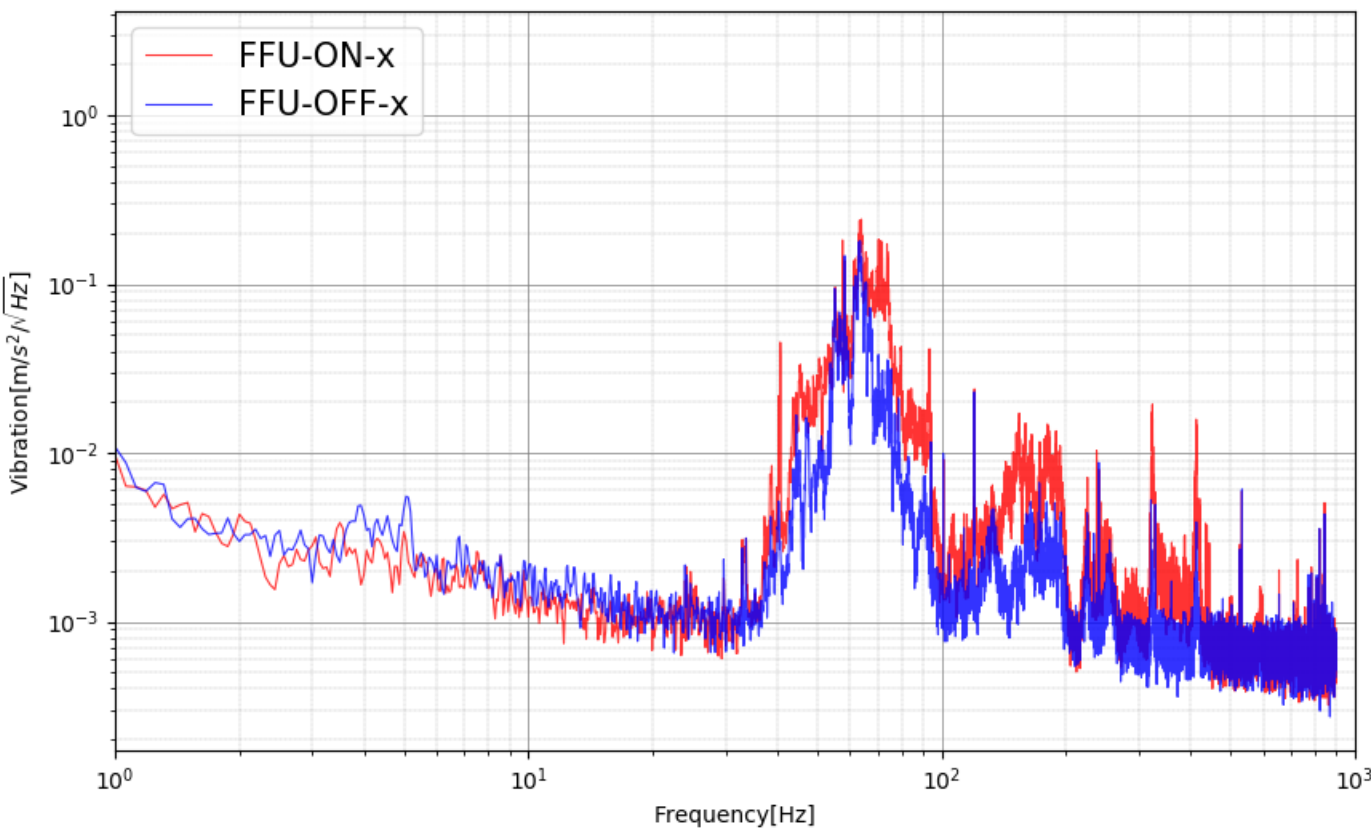
We couldn't find the noise source -> noise injection

Frequency shift at **120Hz** by FFU ON/OFF

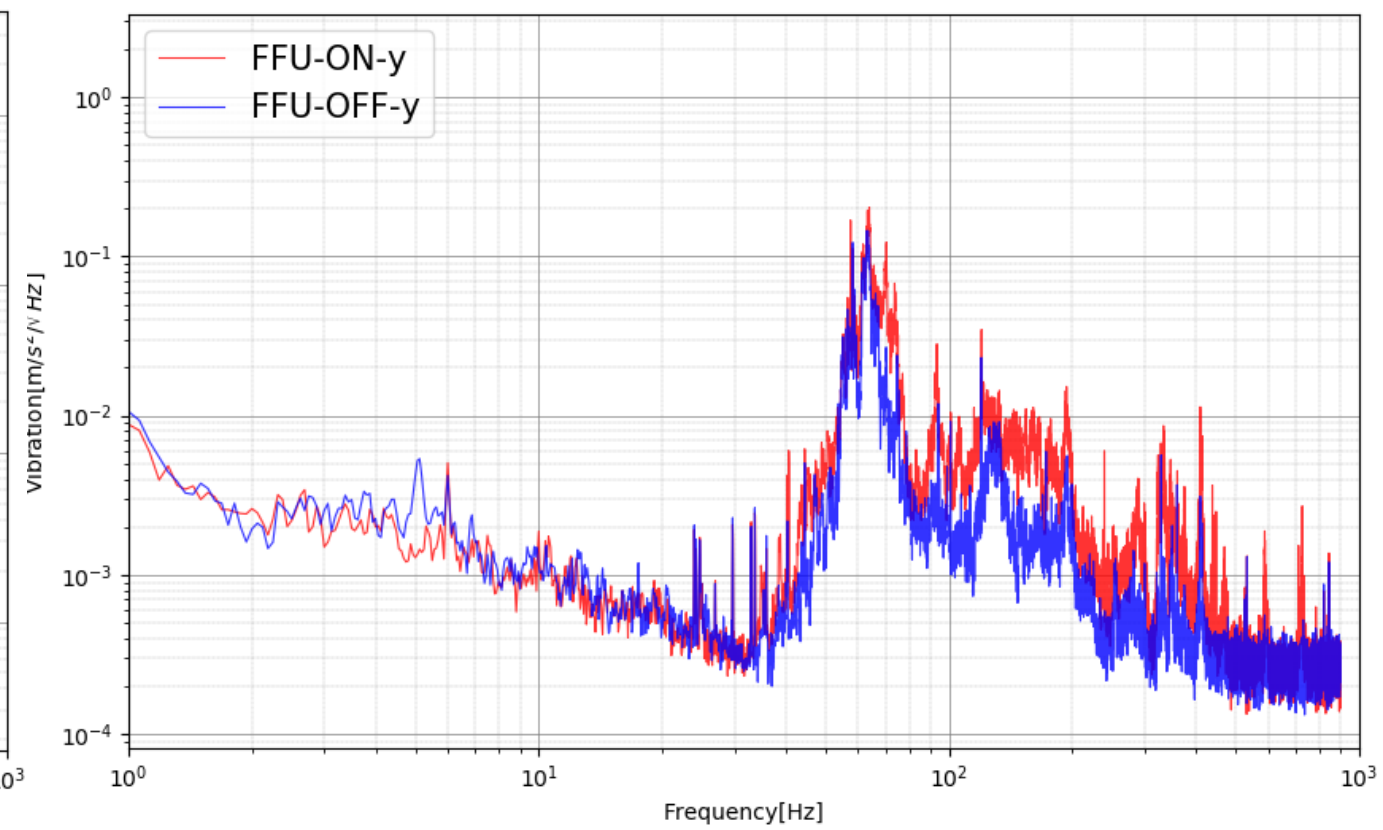


We will search the time variation of **120Hz** using Fujimopy.

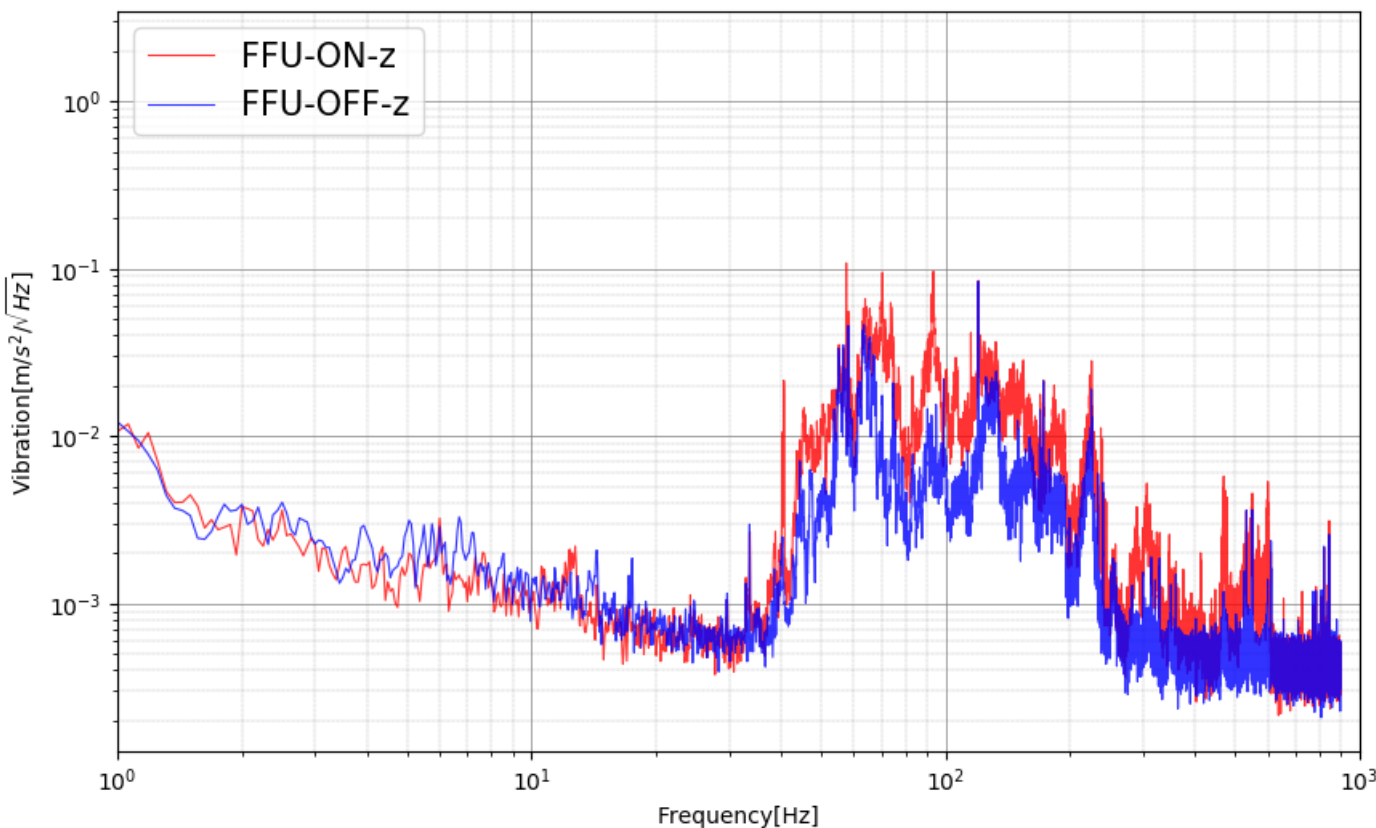
the seismometer of IXV



x axis : **40.7Hz, 57.5Hz, 79.75Hz, 93.4Hz, 115Hz, 237Hz, 323Hz, 412Hz, 434.8Hz, 438.5Hz, 444Hz**



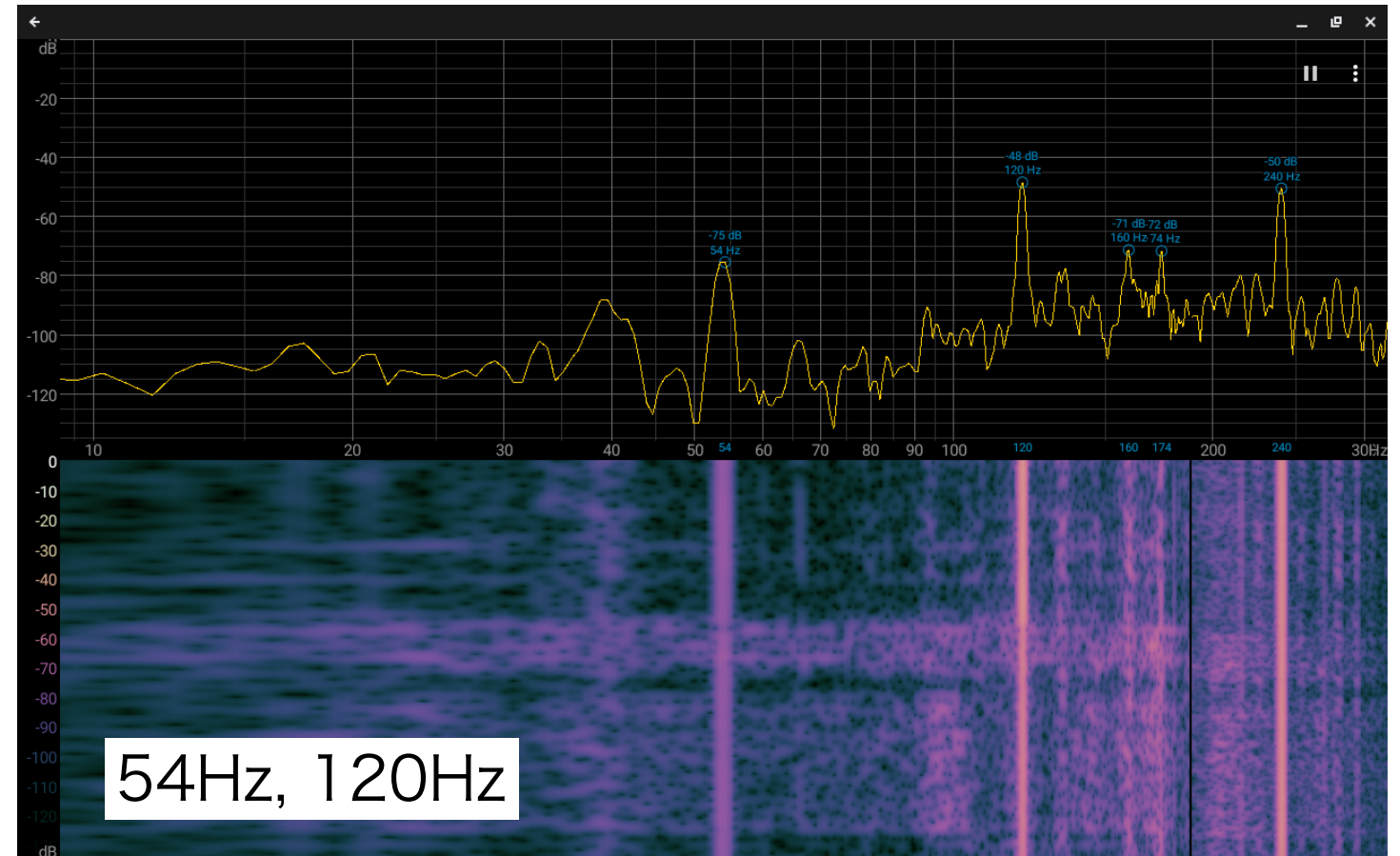
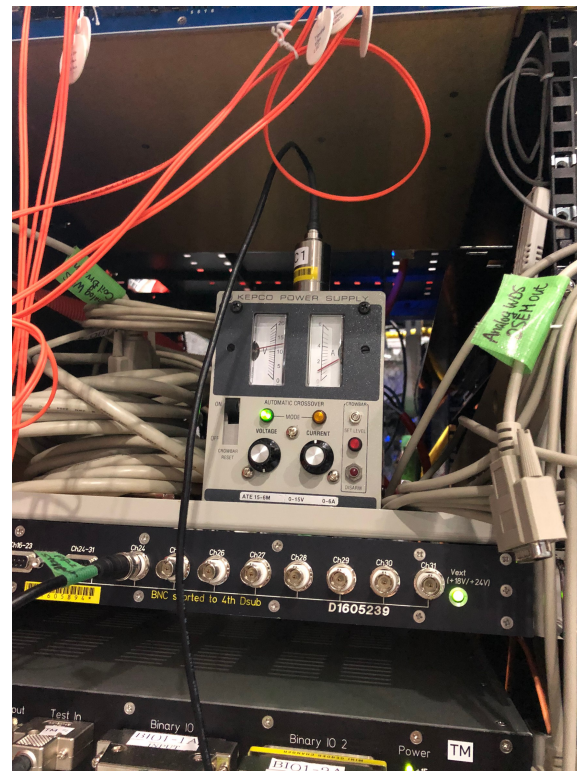
y axis : **38.8Hz, 40.7Hz, 57.5Hz, 239Hz, 438.5Hz, 444Hz, 447.8Hz,**



Peak disappeared by FFU ON/OFF

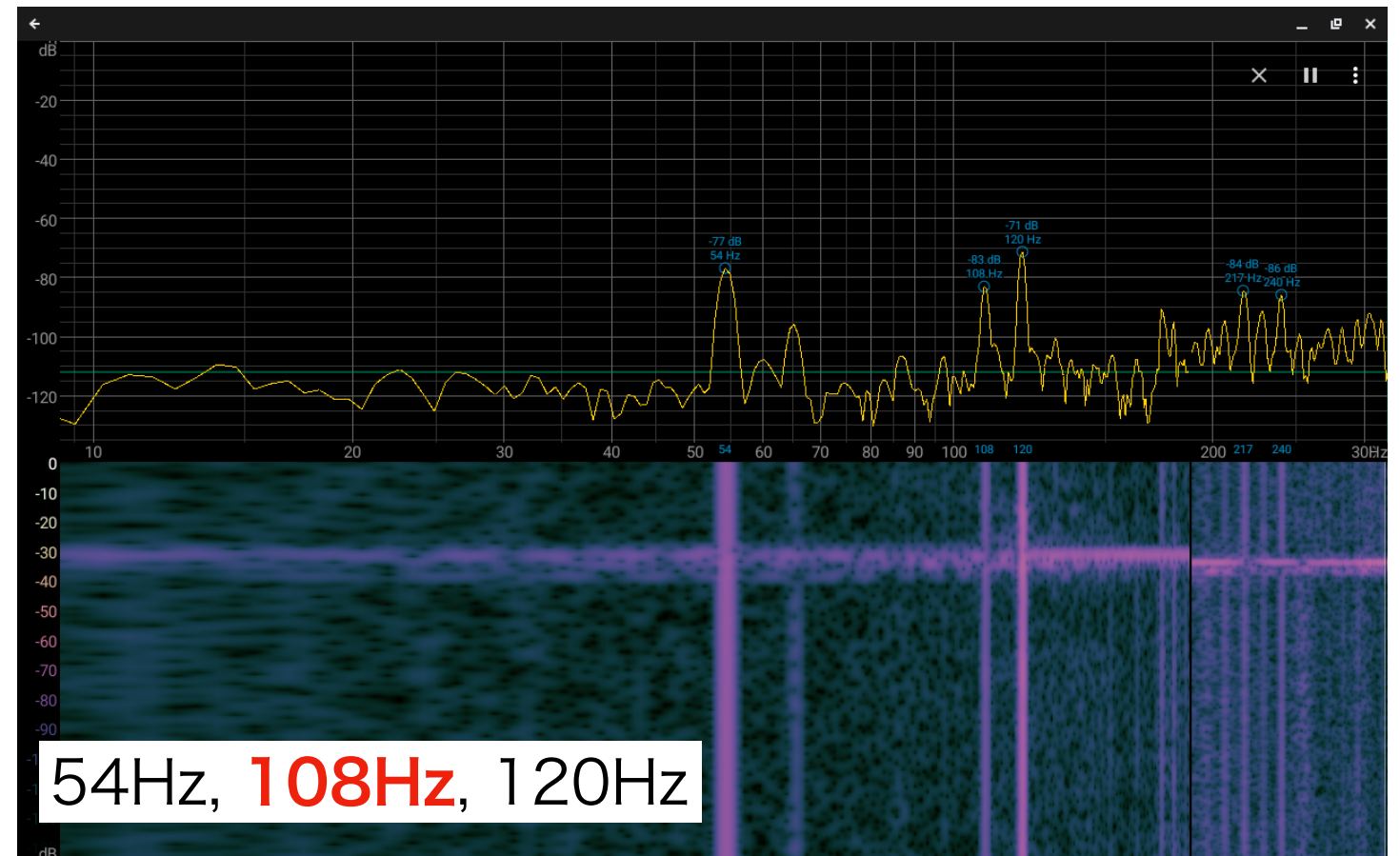
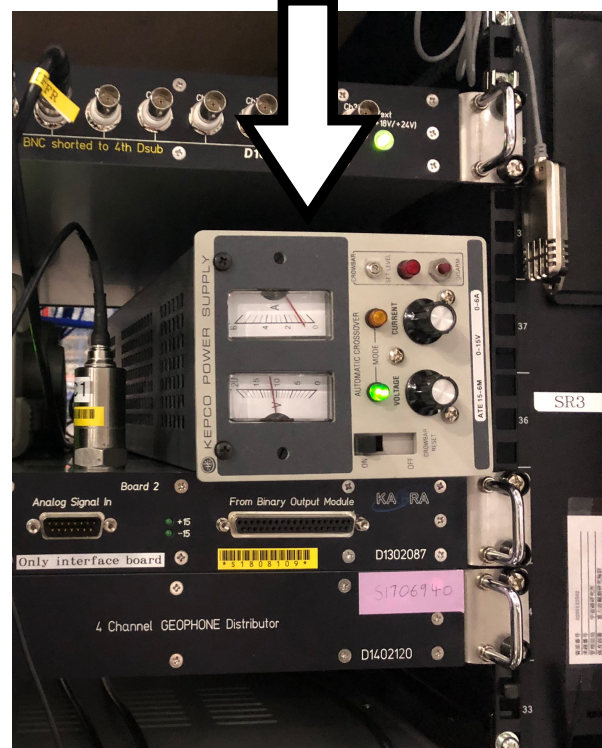
z axis : **40.7Hz, 57.5Hz, 237Hz, 239Hz, 242Hz, 244.2Hz, 375H, 412Hz, 447.8Hz**

the power supply of BS rack

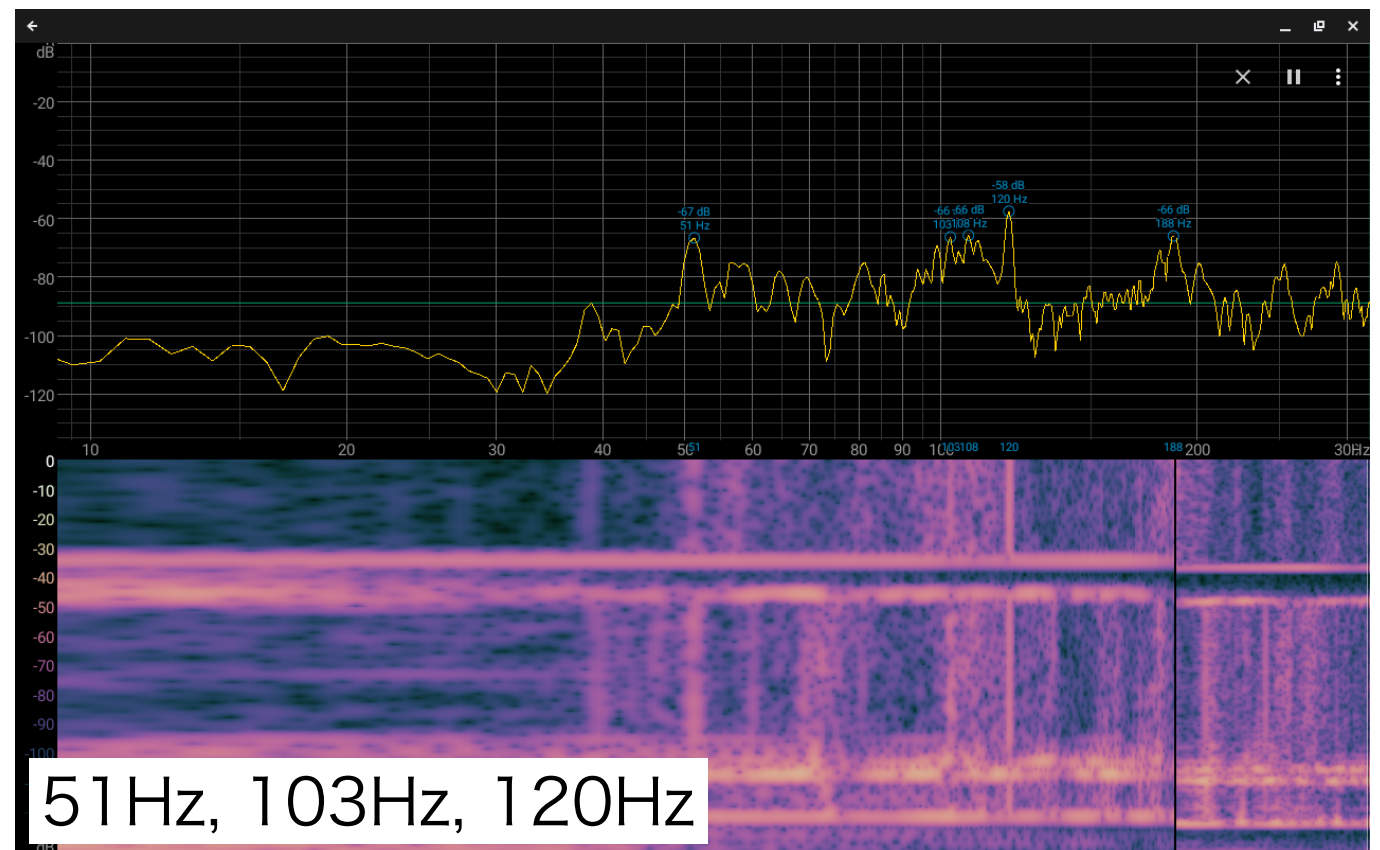
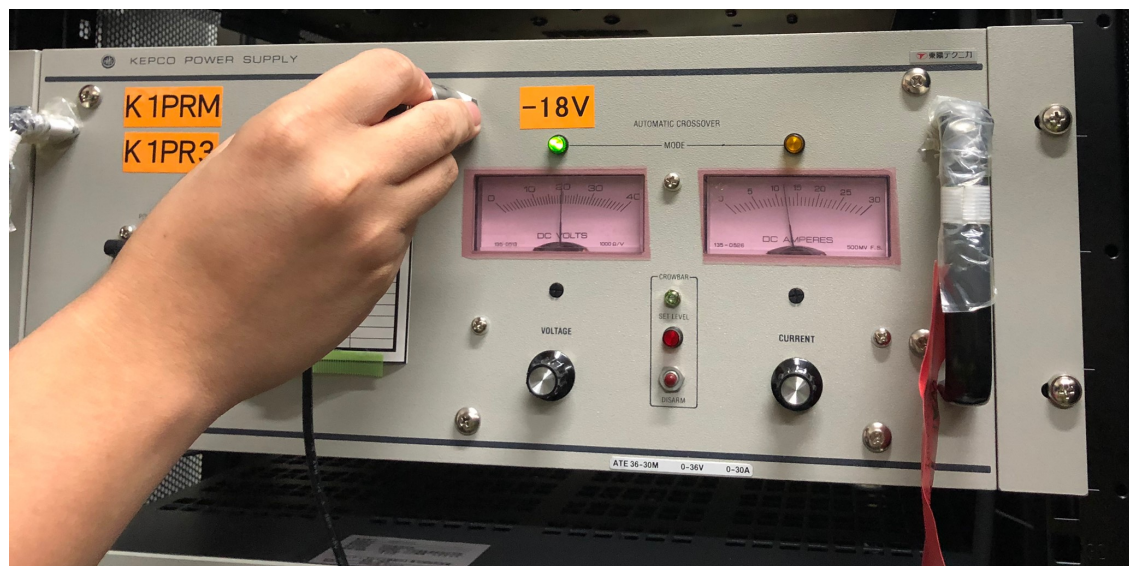
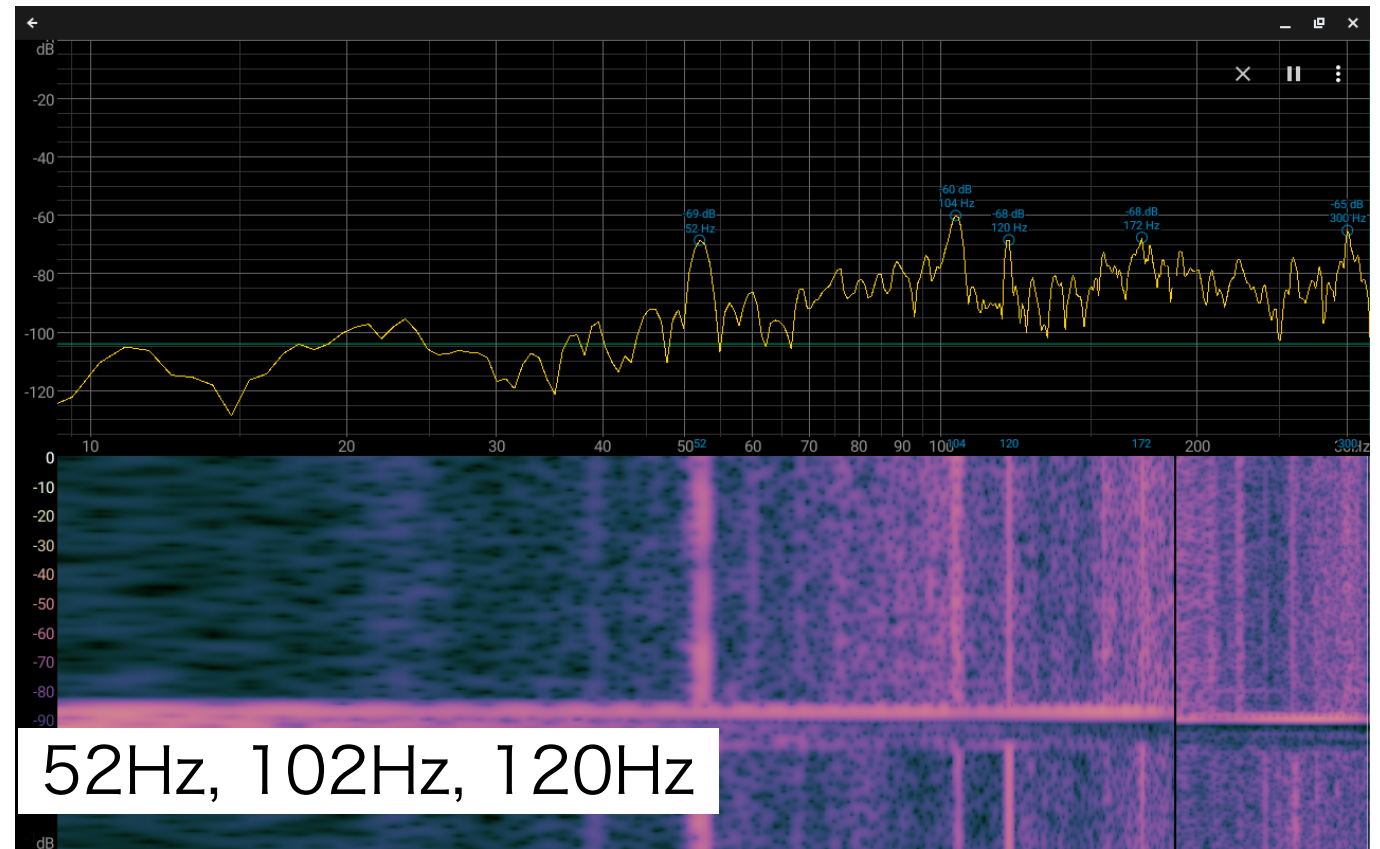
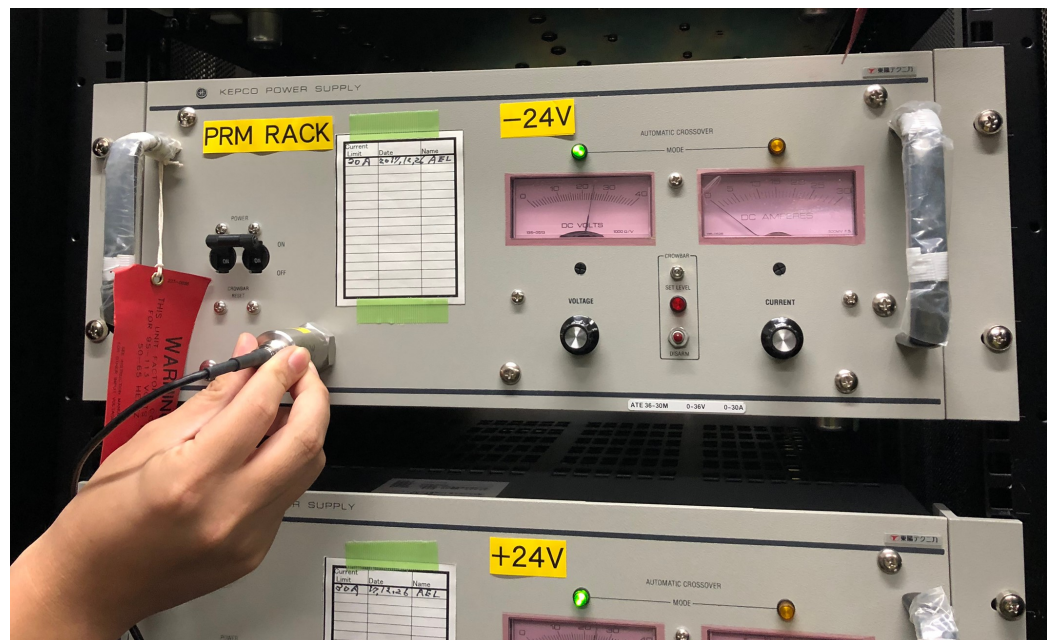


the power supply of SR rack

sideways



the power supply of Computer room



The propagation of power supply vibration

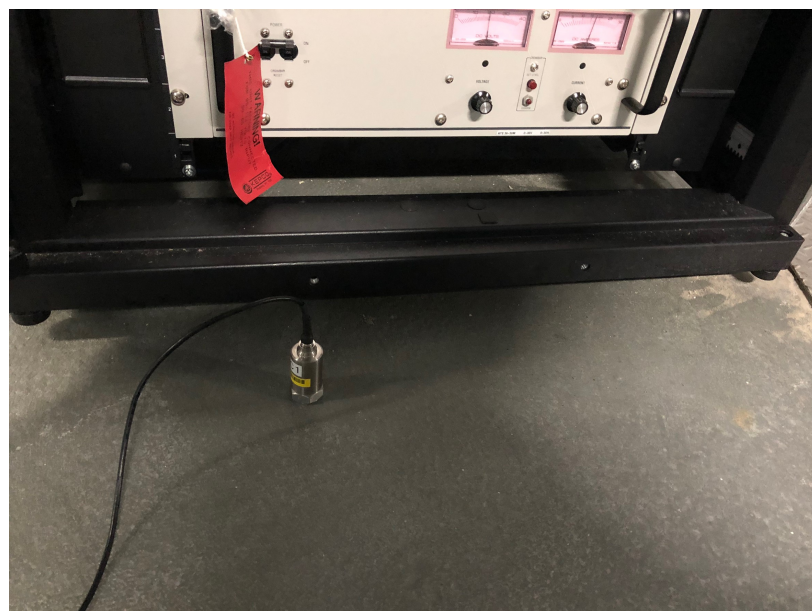
rack : propagating



wiring rack : Not propagated



ground : Not propagated



cable : Not propagated

