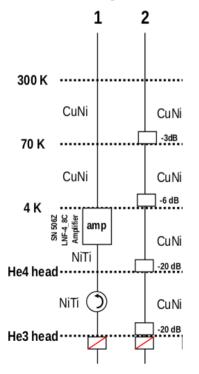
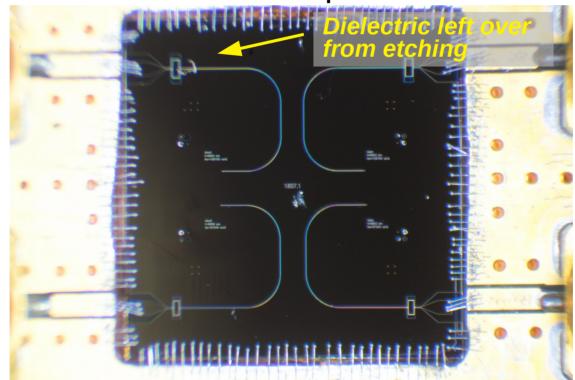
1807.1

NbTiN resonators with adjusted shunts to avoid shorts
1807.1
16-7-2018
Mark
He7 Fridge

Connected sample on standard lines – 16-07-18

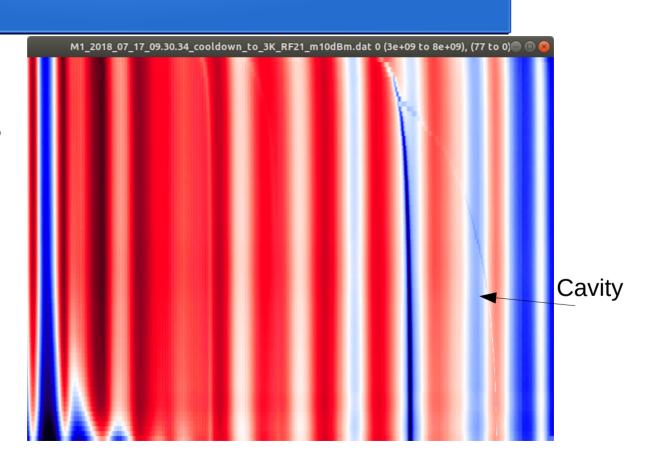
 Connected First short (top left) to attenuated line and amplifer + -20dB directional coupler



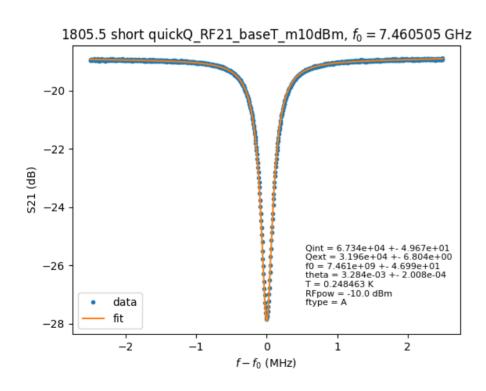


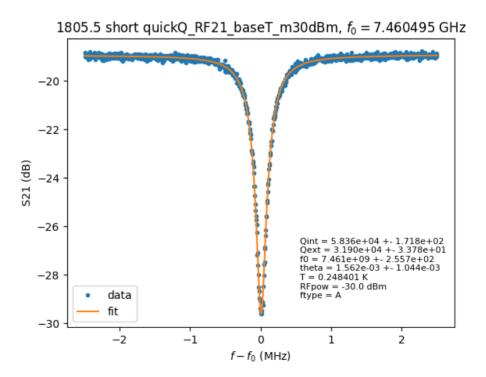
Cooldown to 4K

Weird extra modes?

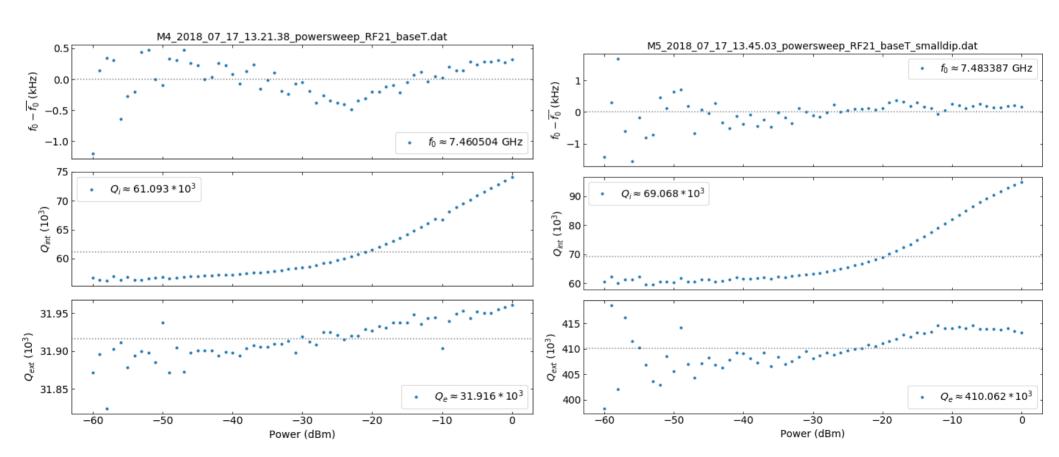


QuickQs of cavity

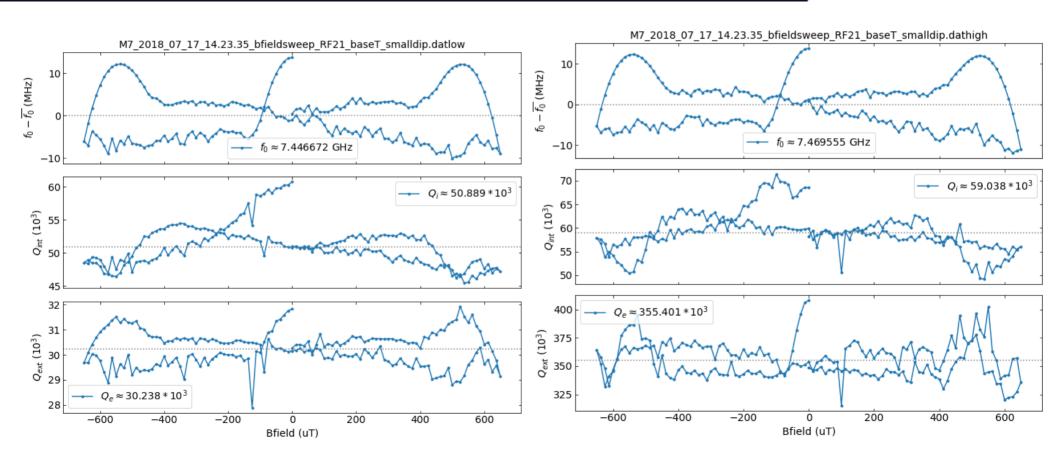




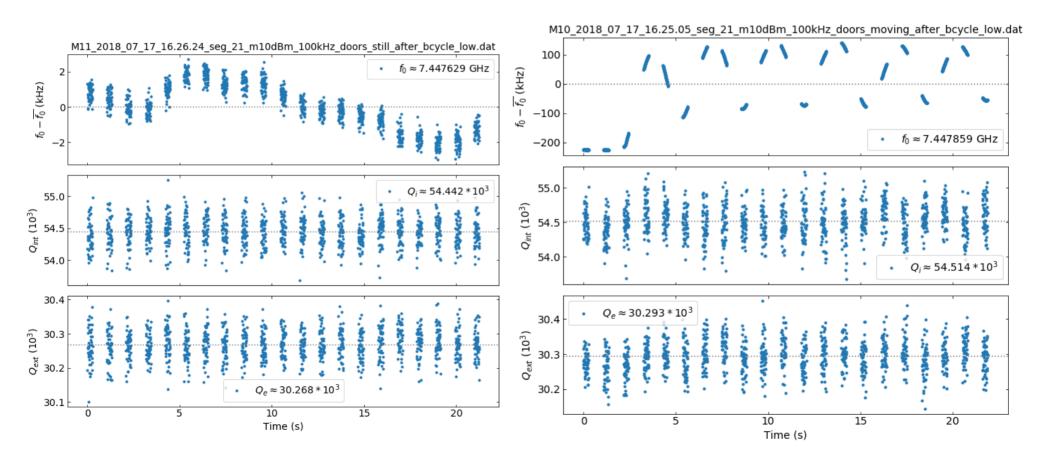
Power dependence. Left: cavity, right: weird resonance



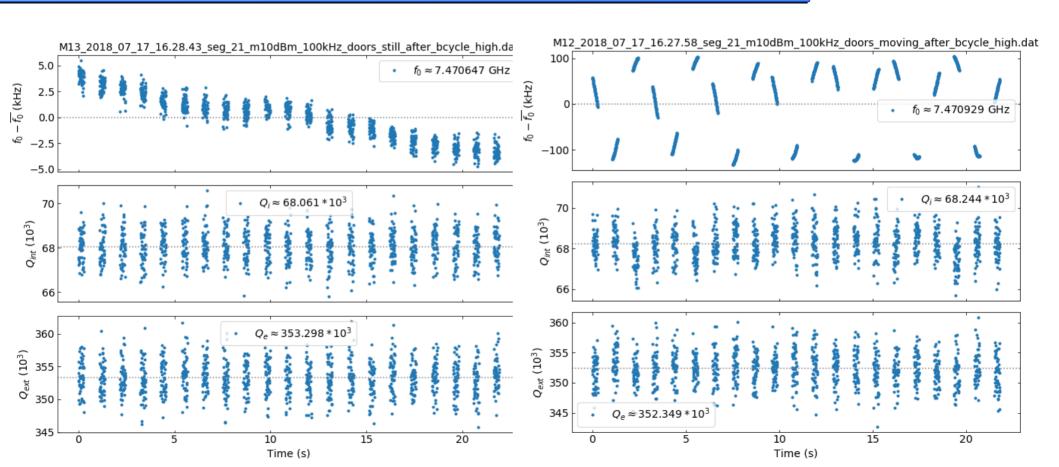
Bfield dependence. Left: cavity, right: weird resonance



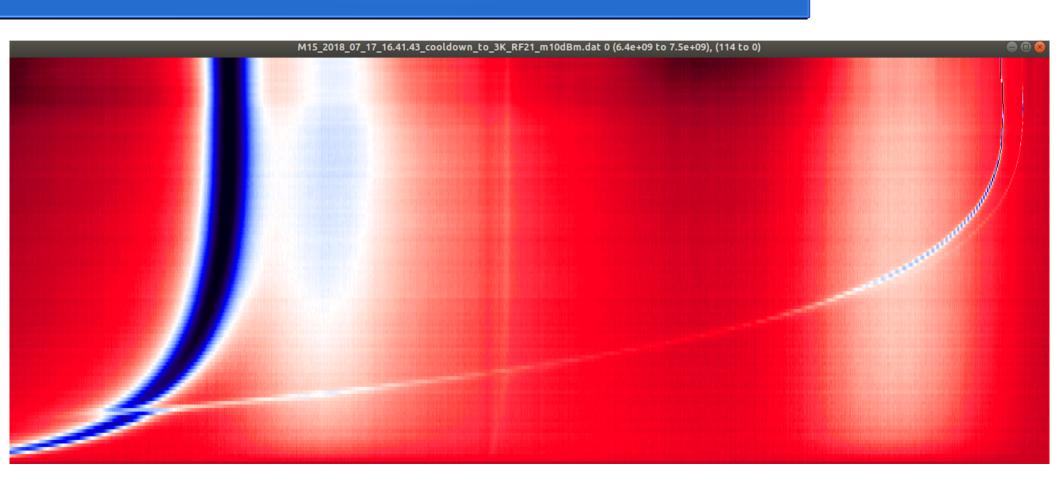
Cavity "Jitter". Left: doors closed, right: doors moving



Weird resonance "jitter". Left: doors closed, right: doors moving

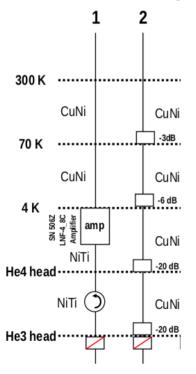


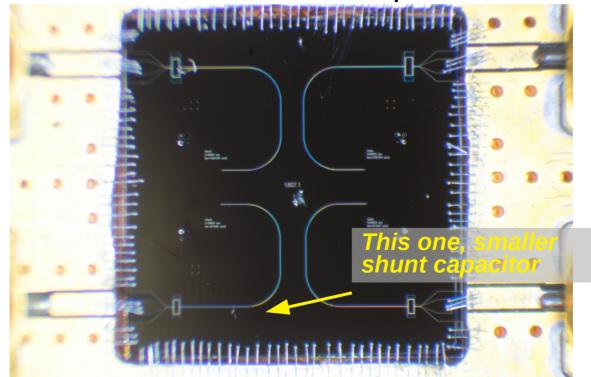
Warmup



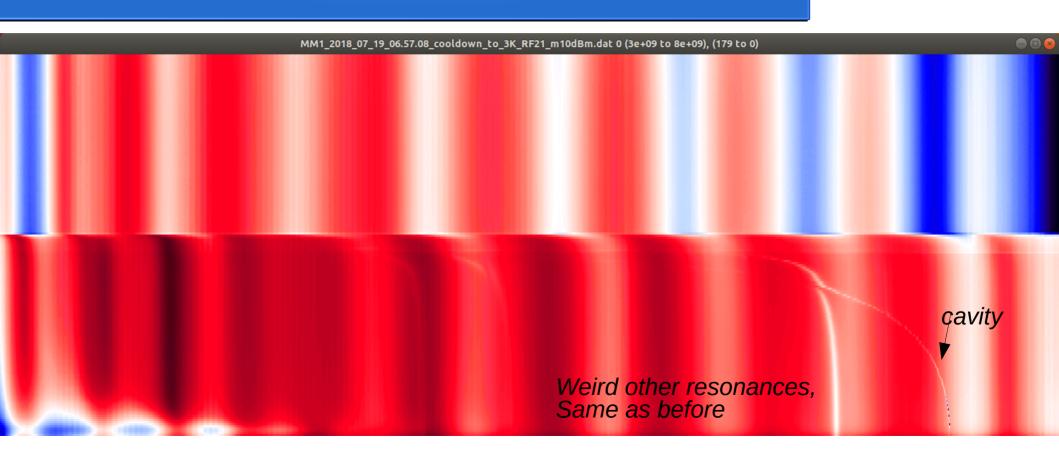
Connected sample on standard lines – 18-07-18

 Connected Second short (bottom left) to attenuated line and amplifer + -20dB directional coupler

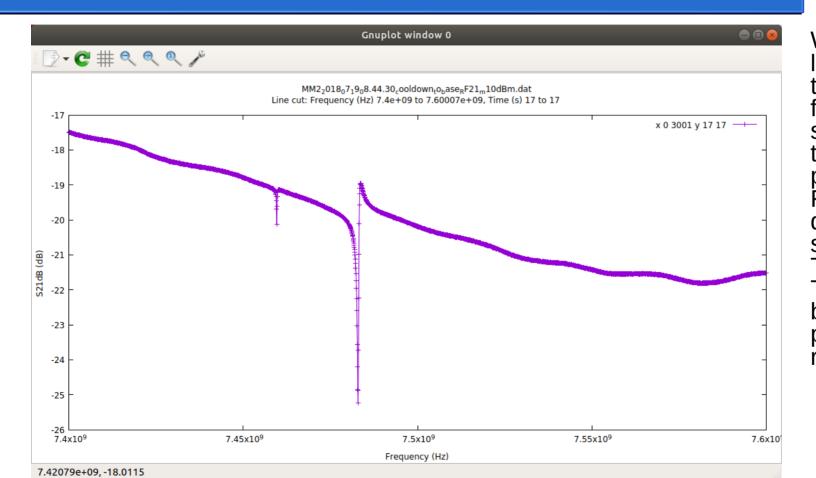




Cooldown to 3K

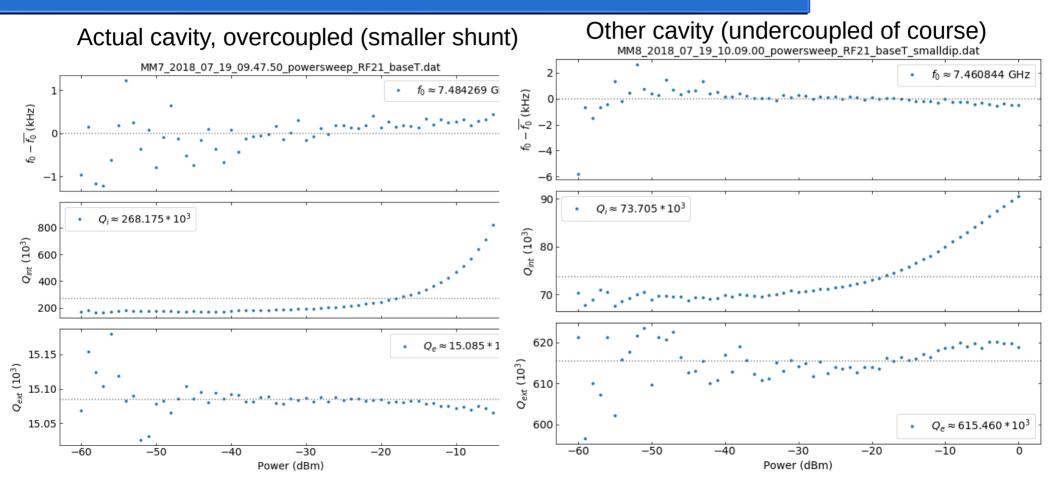


Again, second cavity (?) visible

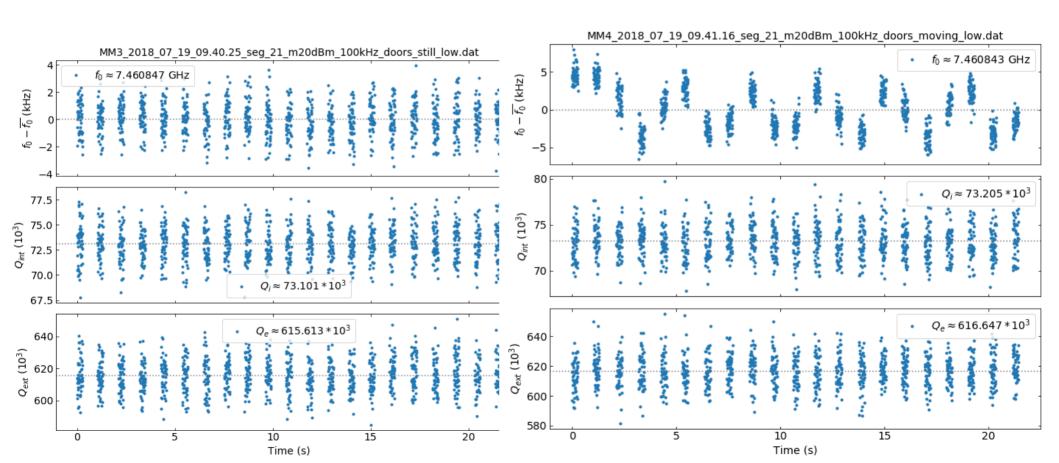


We assume that the lower one is from the device with the first cooldown. somehow coupling through the ground plane? First cooldown: left dip deep, right one shallow This time: reversed This makes sense because now we're probing the other resonator directly

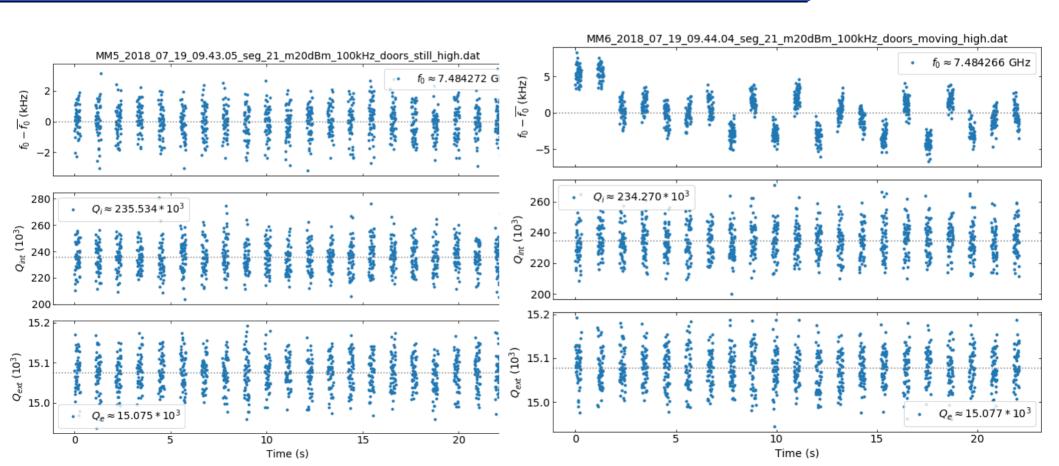
Power dependence. Left: cavity, right: other cavity



Cavity "Jitter". Left: doors closed, right: doors moving



Other cavity "Jitter". Left: doors closed, right: doors moving



Warmup cavity Other cavity MM11_2018_07_19_11.41.09_warmup_RF21_m10dBm.dat 0 (6.4e+09 to 7.5e+09), (137 to 0)