

# 211022 Cavity spectroscopy

Friday, October 22, 2021 3:30 PM

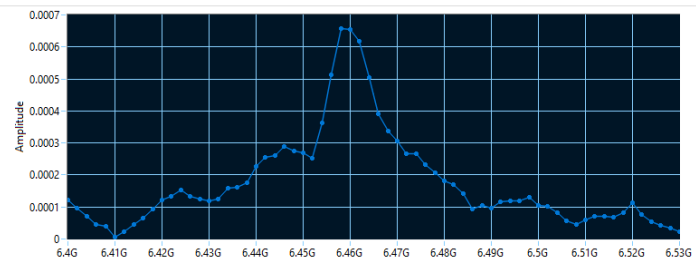
## 20211022/1000

cav\_spec

UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-2m  
Sampling freq: 1.7578125E+6  
RO\_LO\_P: 5.0 dBm  
Averages: 10k  
Coil voltage: set to 0 V  
f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
steps (60 pts)

## Cavity Spectroscopy - 0V



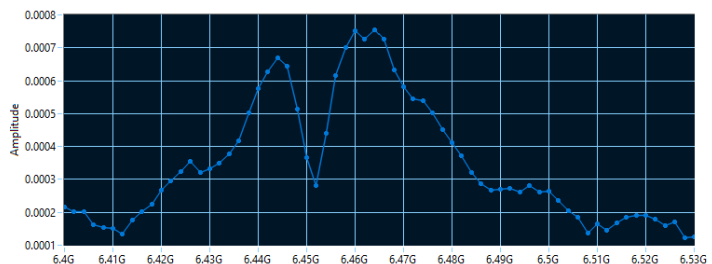
## 20211022/1001

cav\_spec

UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-5m  
Sampling freq: 1.7578125E+6  
RO\_LO\_P: 5.0 dBm  
Averages: 10k  
Coil voltage: set to 0 V  
f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
steps (60 pts)

## Cavity Spectroscopy - 0V



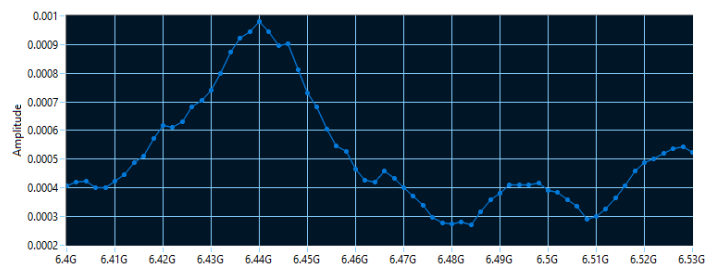
## 20211022/1002

cav\_spec

UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-10m  
Sampling freq: 1.7578125E+6  
RO\_LO\_P: 5.0 dBm  
Averages: 10k  
Coil voltage: set to 0 V  
f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
steps (60 pts)

## Cavity Spectroscopy - 0V



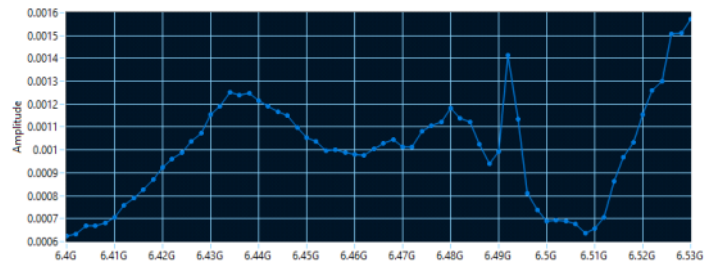
## 20211022/1003

cav\_spec

## Cavity Spectroscopy - 0V

UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-15m  
Sampling freq: 1.7578125E+6  
RO\_LO\_P: 5.0 dBm  
Averages: 10k  
Coil voltage: set to 0 V  
f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
steps (60 pts)



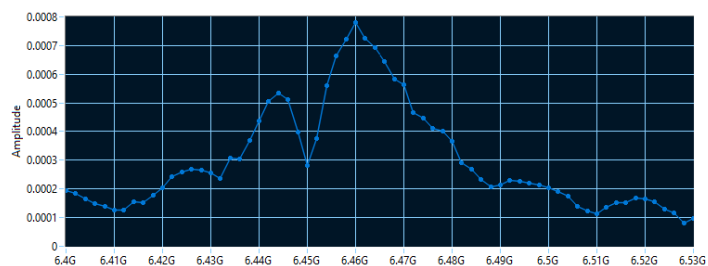
**20211022/1004**

cav\_spec

UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-4m  
Sampling freq: 1.7578125E+6  
RO\_LO\_P: 5.0 dBm  
Averages: 10k  
Coil voltage: set to 0 V  
f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
steps (60 pts)

**Cavity Spectroscopy - 0V**



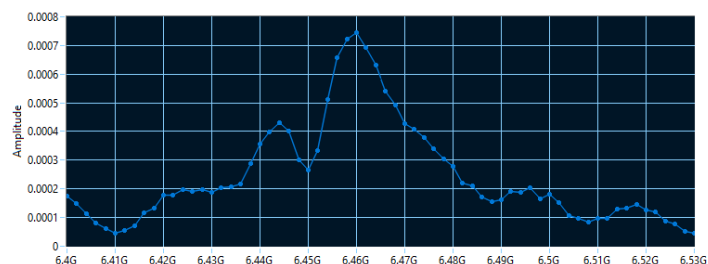
**20211022/1005**

cav\_spec

UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-3m  
Sampling freq: 1.7578125E+6  
RO\_LO\_P: 5.0 dBm  
Averages: 10k  
Coil voltage: set to 0 V  
f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
steps (60 pts)

**Cavity Spectroscopy - 0V**



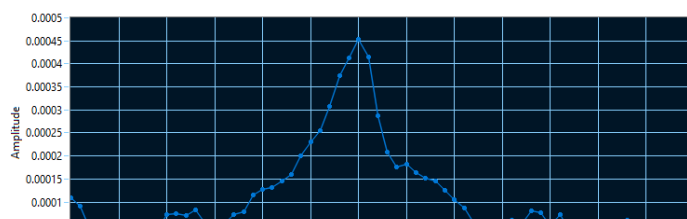
**20211022/1006**

cav\_spec

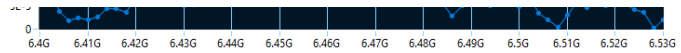
UHFLI AWG sequence:  
spectroscopy

UHFLI output range 1.5V  
Rect\_wave\_amp: 1  
AWG HL in LabView: +-1m

**Cavity Spectroscopy - 0V**



Sampling freq: 1.7578125E+6  
 RO\_LO\_P: 5.0 dBm  
 Averages: 10k  
 Coil voltage: set to 0 V  
 f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
 steps (60 pts)



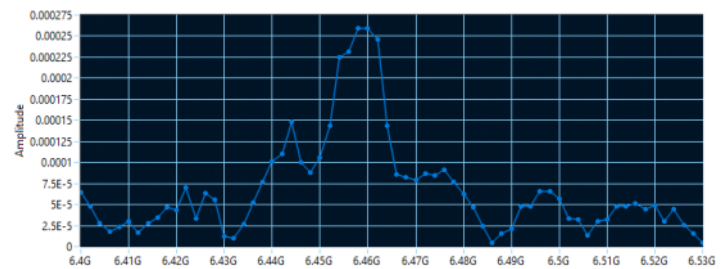
## 20211022/1007

cav\_spec

UHFLI AWG sequence:  
 spectroscopy

UHFLI output range 1.5V  
 Rect\_wave\_amp: 1  
 AWG HL in LabView: +-0.5m  
 Sampling freq: 1.7578125E+6  
 RO\_LO\_P: 5.0 dBm  
 Averages: 10k  
 Coil voltage: set to 0 V  
 f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
 steps (60 pts)

## Cavity Spectroscopy - 0V



## 20211022/1008

cav\_spec

UHFLI AWG sequence:  
 spectroscopy

UHFLI output range 1.5V  
 Rect\_wave\_amp: 1  
 AWG HL in LabView: +-20m  
 Sampling freq: 1.7578125E+6  
 RO\_LO\_P: 5.0 dBm  
 Averages: 10k  
 Coil voltage: set to 0 V  
 f\_LO: 6.4 GHz to 6.53 GHz in 2MHz  
 steps (60 pts)

## Cavity Spectroscopy - 0V

