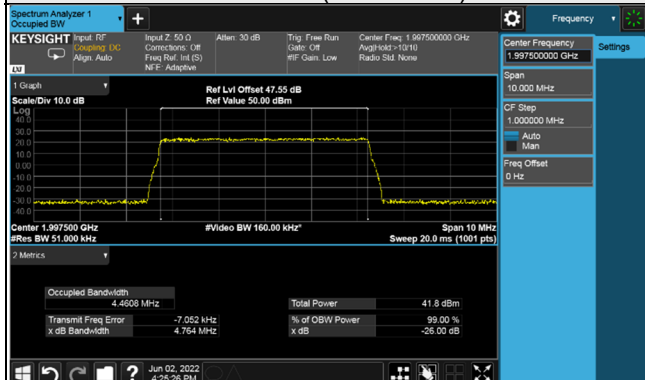
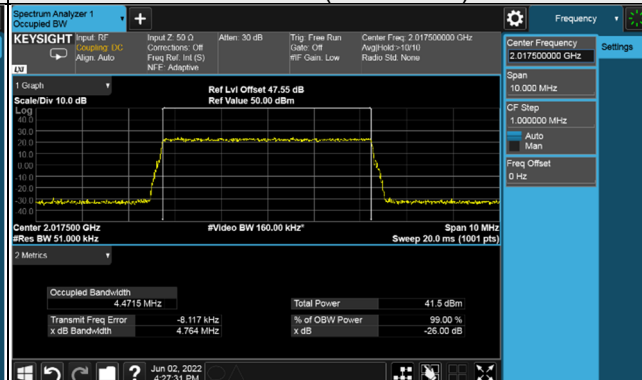


### 64QAM

#### Ch 399500 (1997.5MHz)

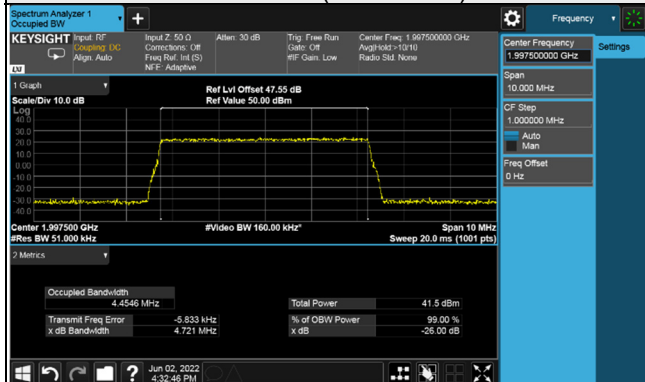


#### Ch 403500 (2017.5MHz)

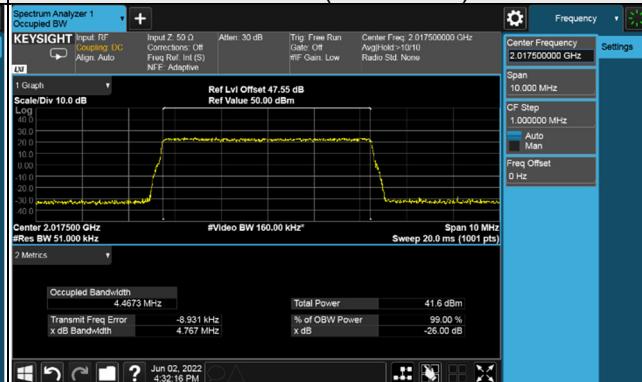


### 256QAM

#### Ch 399500 (1997.5MHz)



#### Ch 403500 (2017.5MHz)



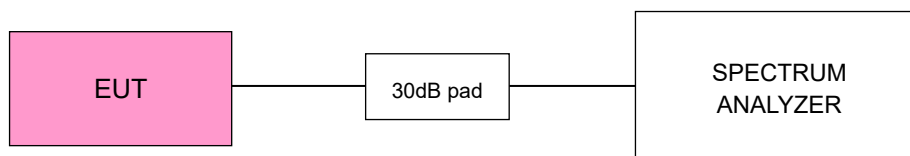
## 4.5 Channel Edge Measurement

### 4.5.1 Limits of Band Edge Measurement

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

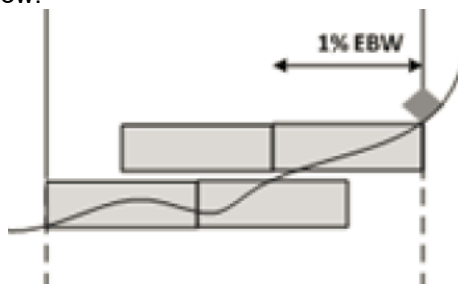
Note: This device can be implement MIMO function, so the limit of spurious emissions needs to be reduced by  $10 \log(\text{Numbers}_{\text{Ant}})$  according to FCC KDB 662911 D01 guidance.

### 4.5.2 Test Setup



### 4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- Use a measurement bandwidth less than required measurement bandwidth and integrate across the required bandwidth.
- Measurement multiple integrate bandwidth and across the 1 MHz adjacent to the block edge. For example below.



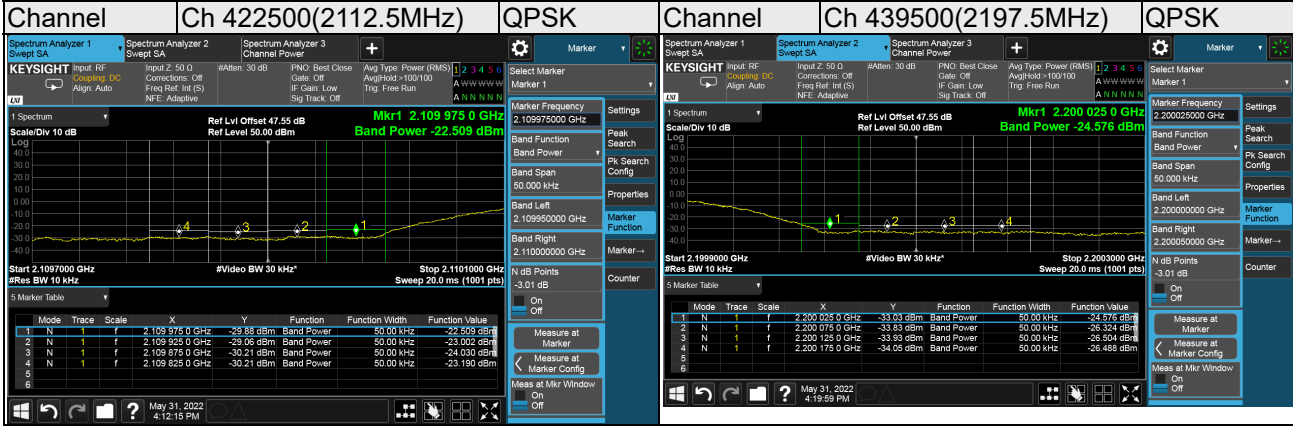
- Set spectrum analyzer RBW=10kHz/VBW=30kHz, integration 1% EBW of band-edge.
- Detector = RMS (Power average).
- Record the max trace plot into the test report.

Note: The band edge point/plot shown has already been evaluated to be the worst-case.

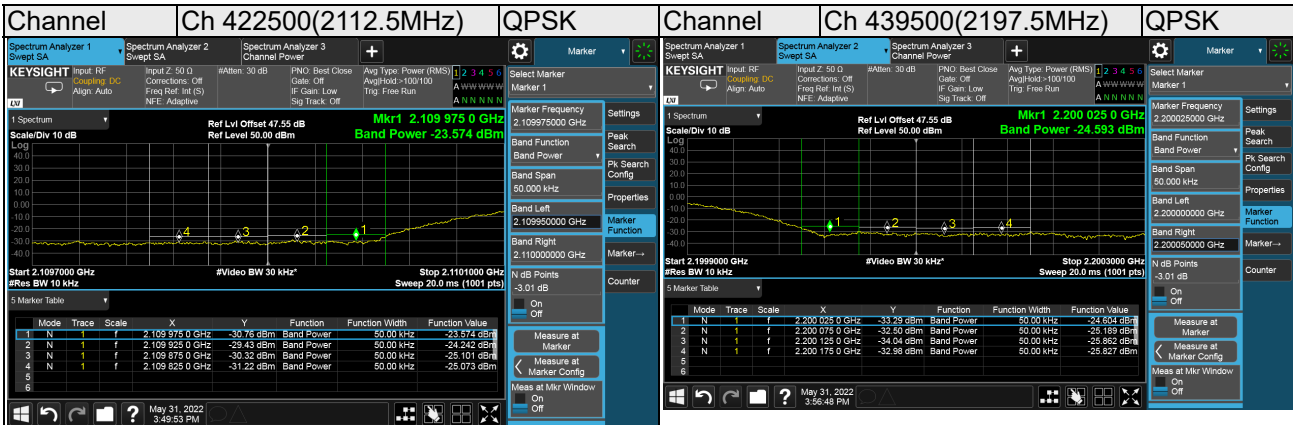
### 4.5.4 Test Results

#### Band n66 Single Carrier

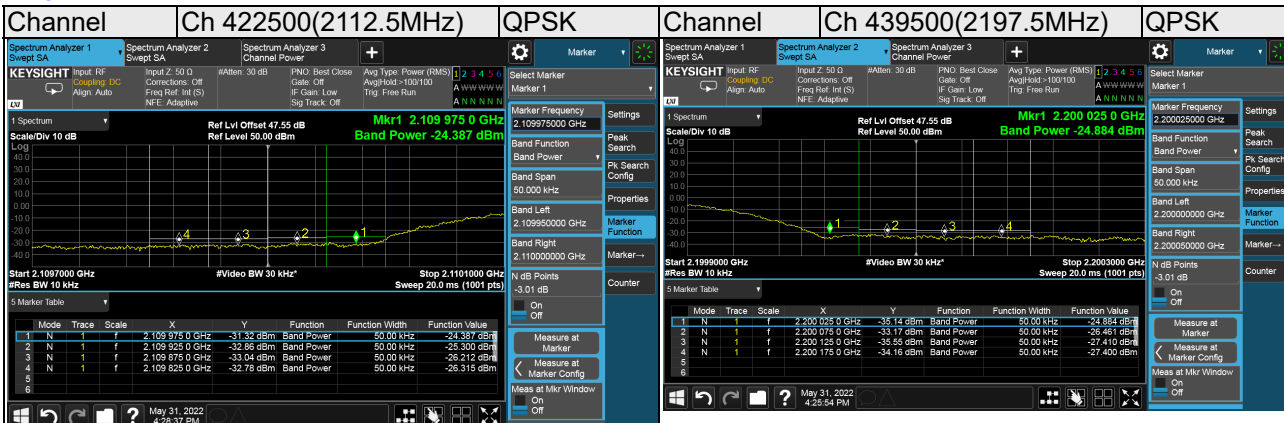
#### 5MHz Ant. TX 0



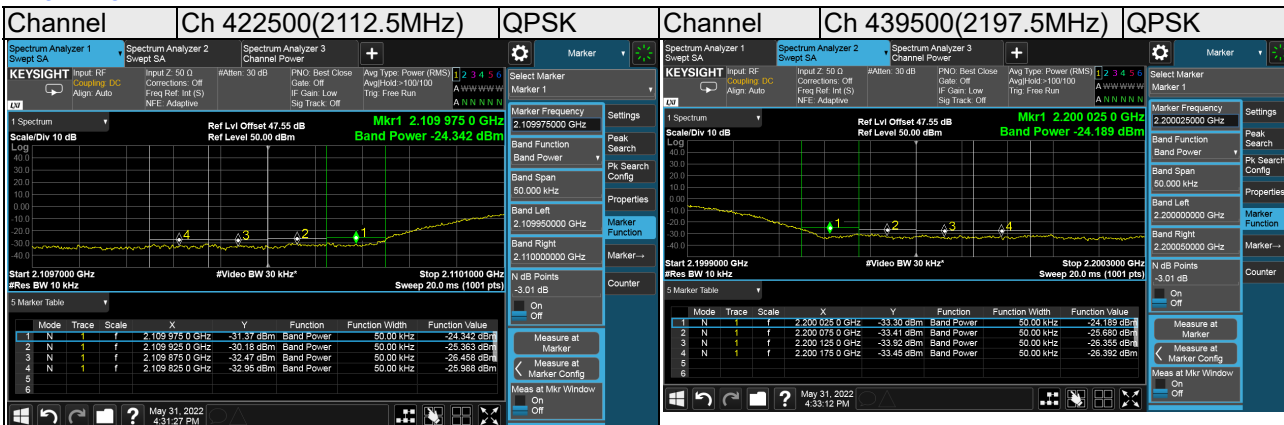
#### Ant. TX 1



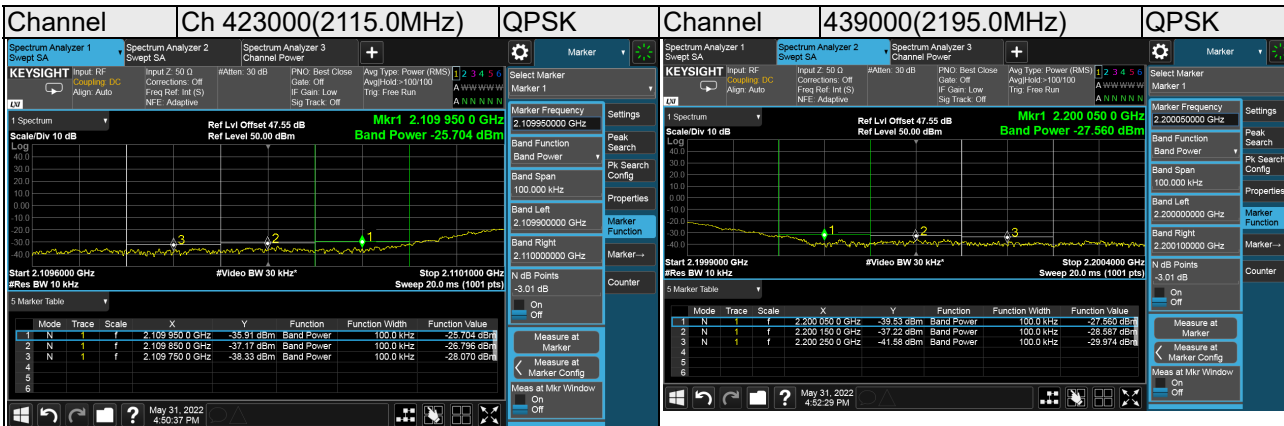
### Ant. TX 2



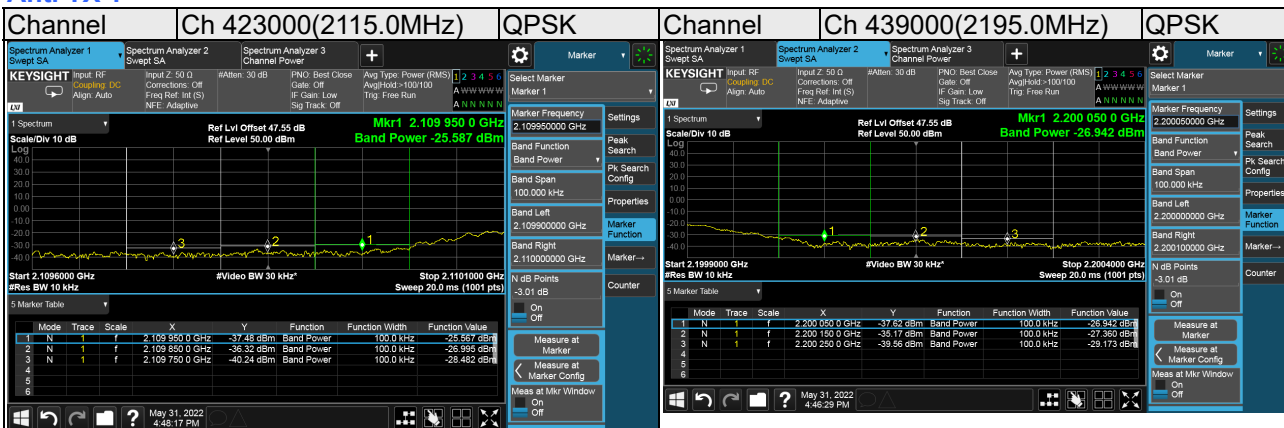
### Ant. TX 3



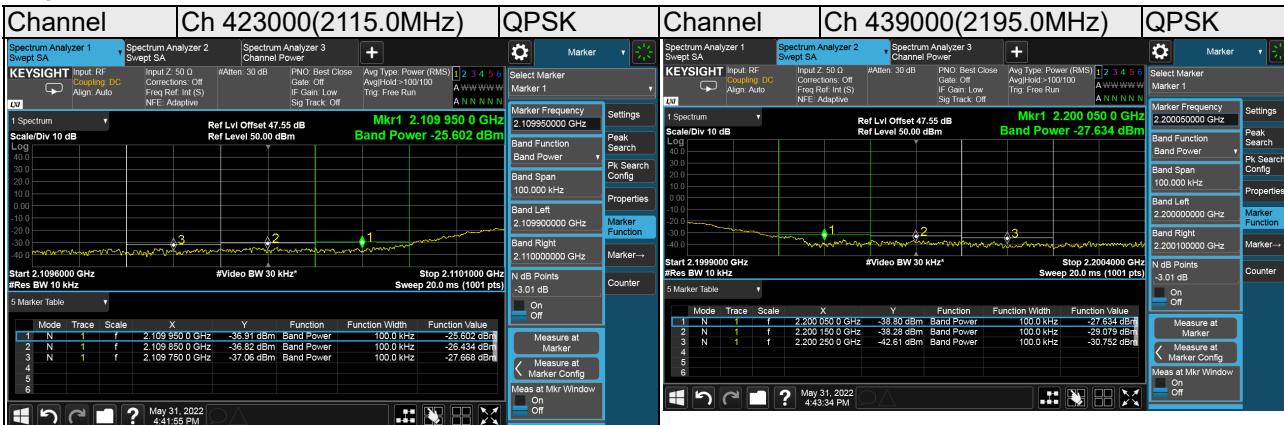
10MHz  
Ant. TX 0



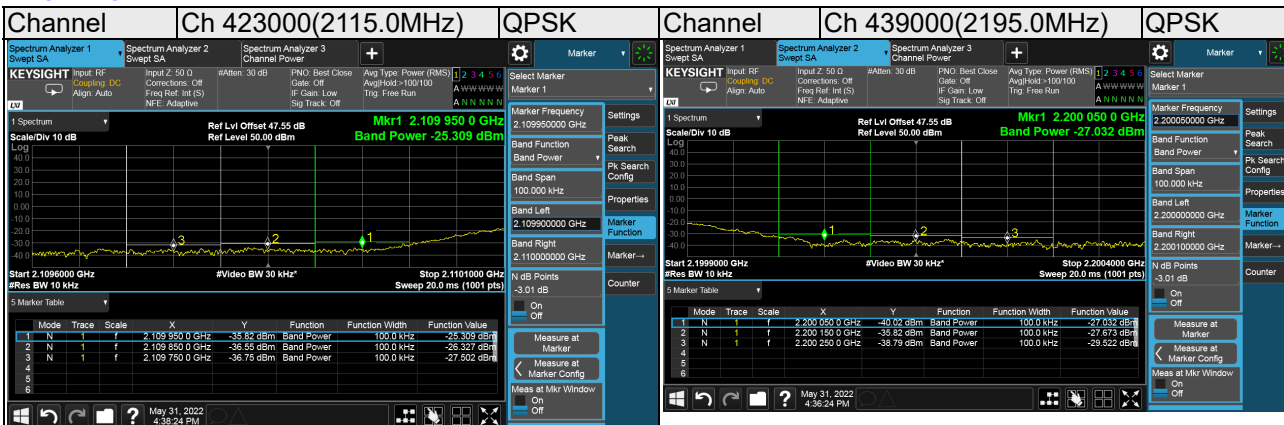
Ant. TX 1



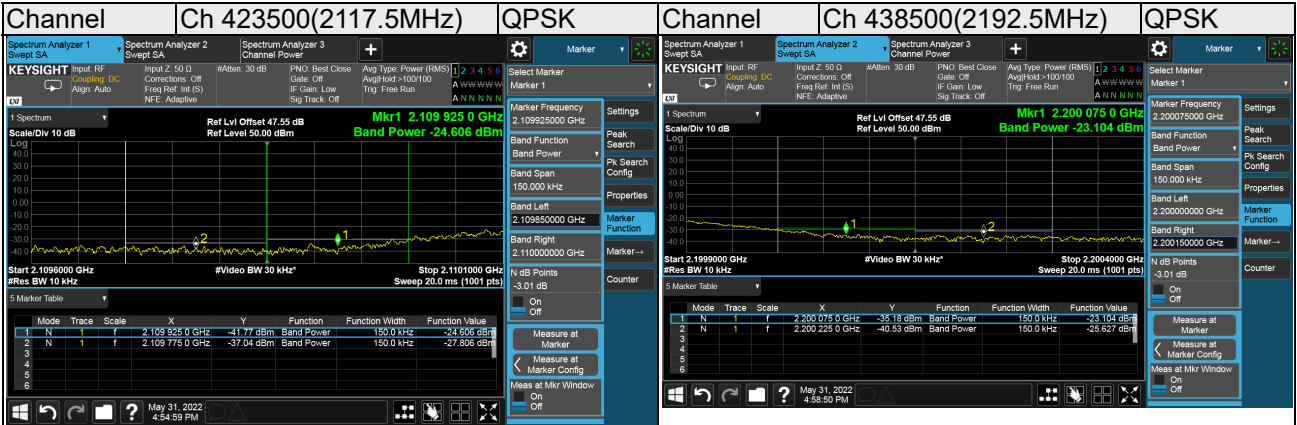
### Ant. TX 2



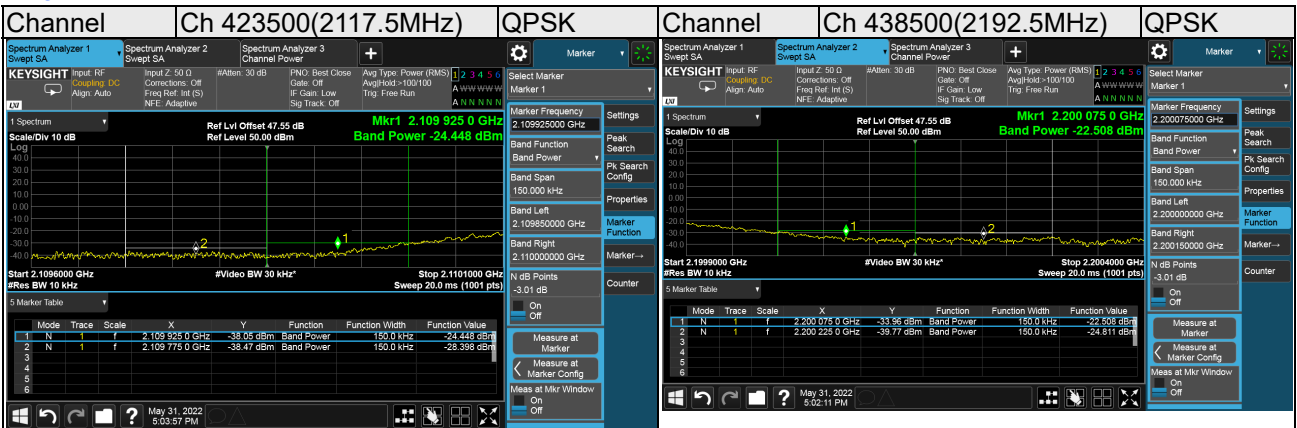
### Ant. TX 3



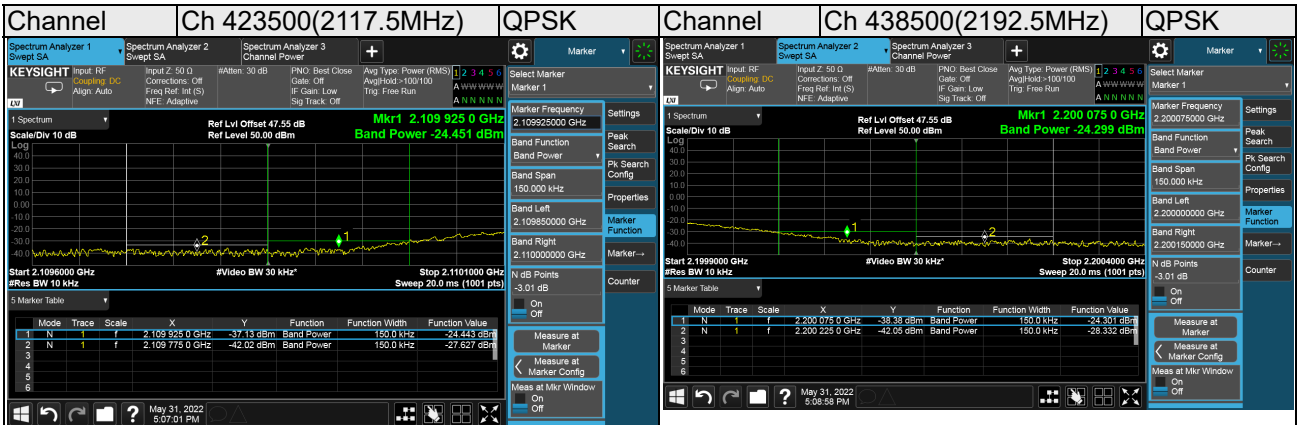
15MHz  
Ant. TX 0



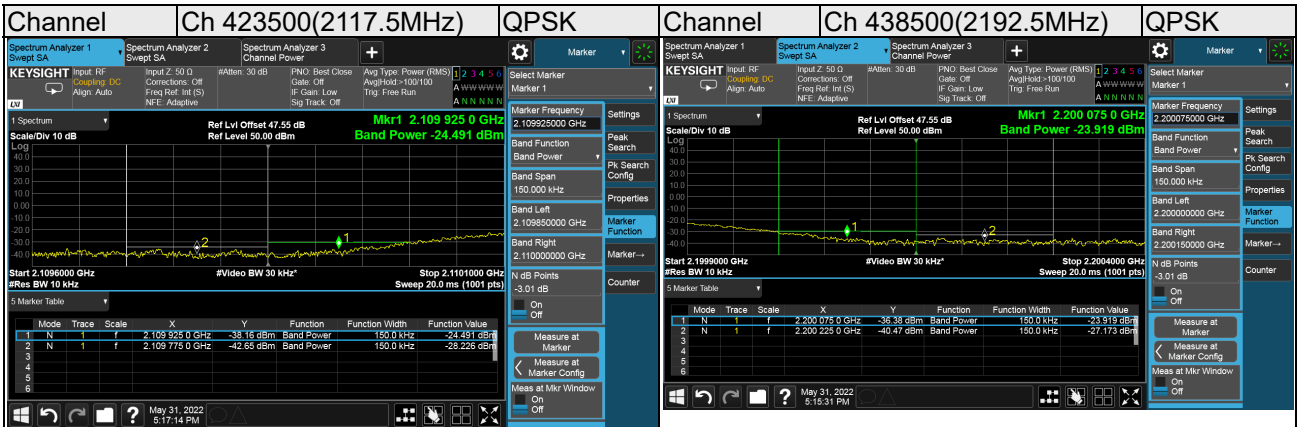
Ant. TX 1



### Ant. TX 2

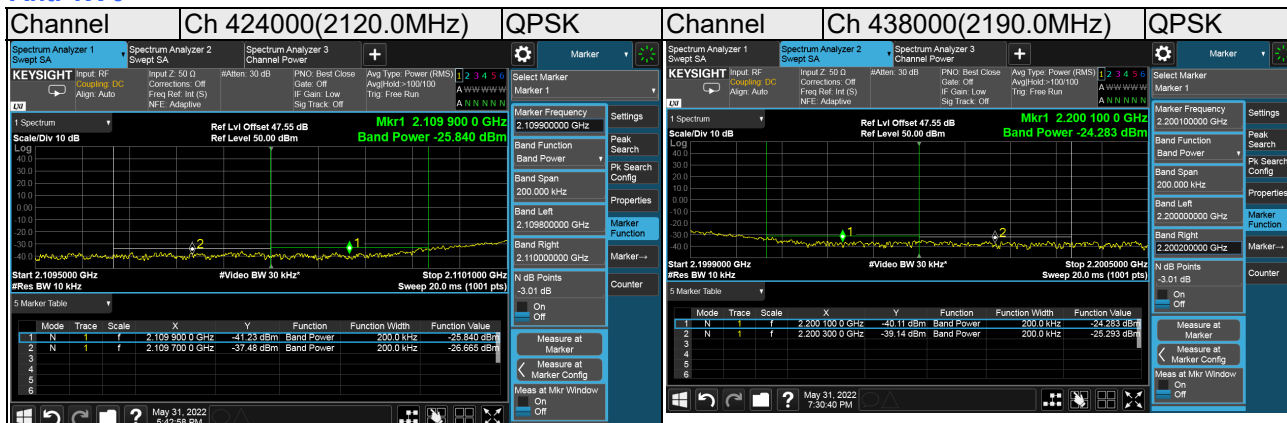


### Ant. TX 3

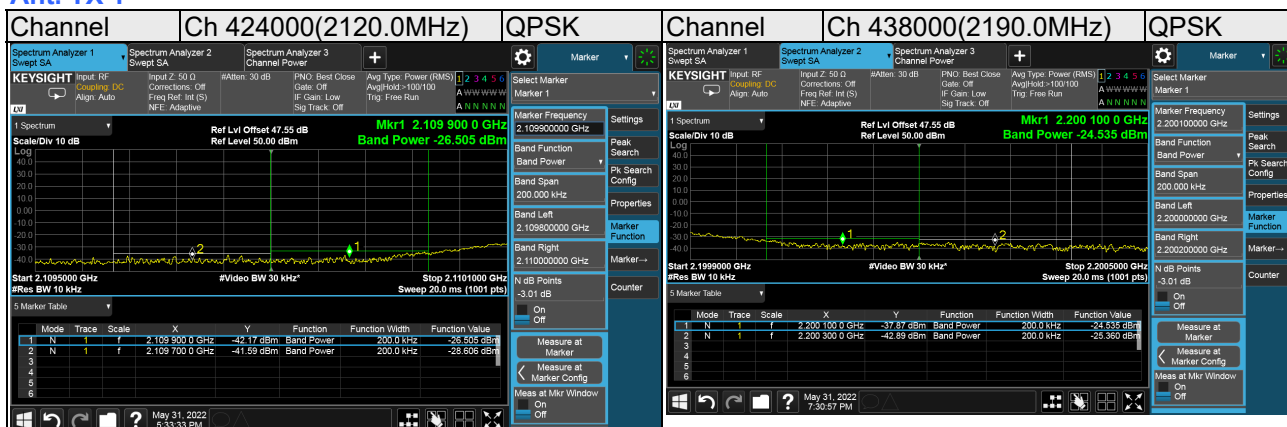




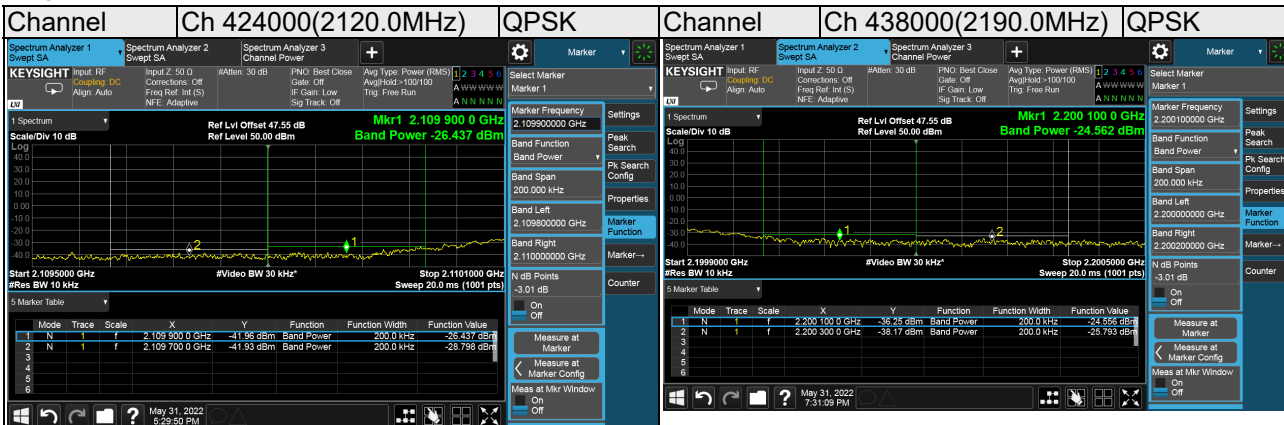
20MHz  
Ant. TX 0



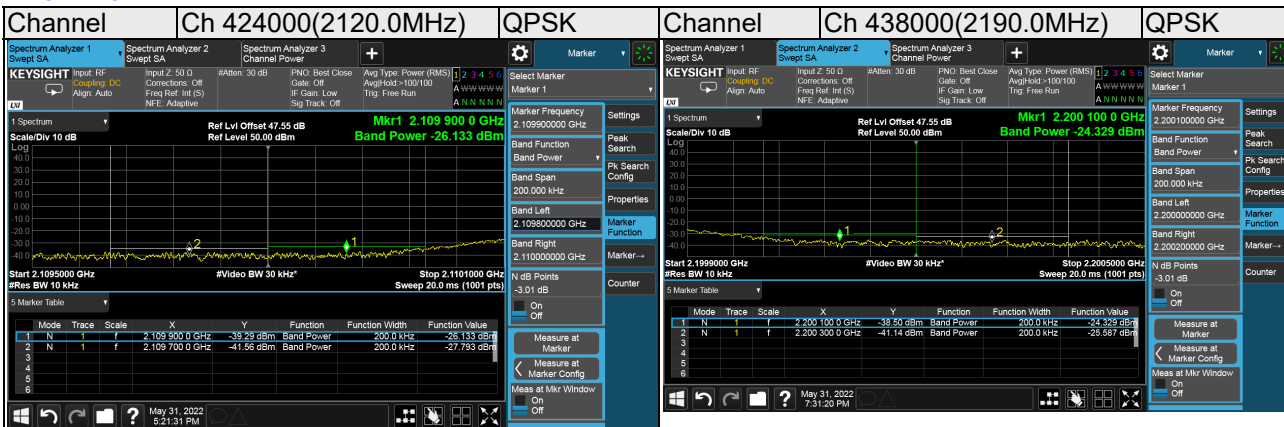
Ant. TX 1



### Ant. TX 2

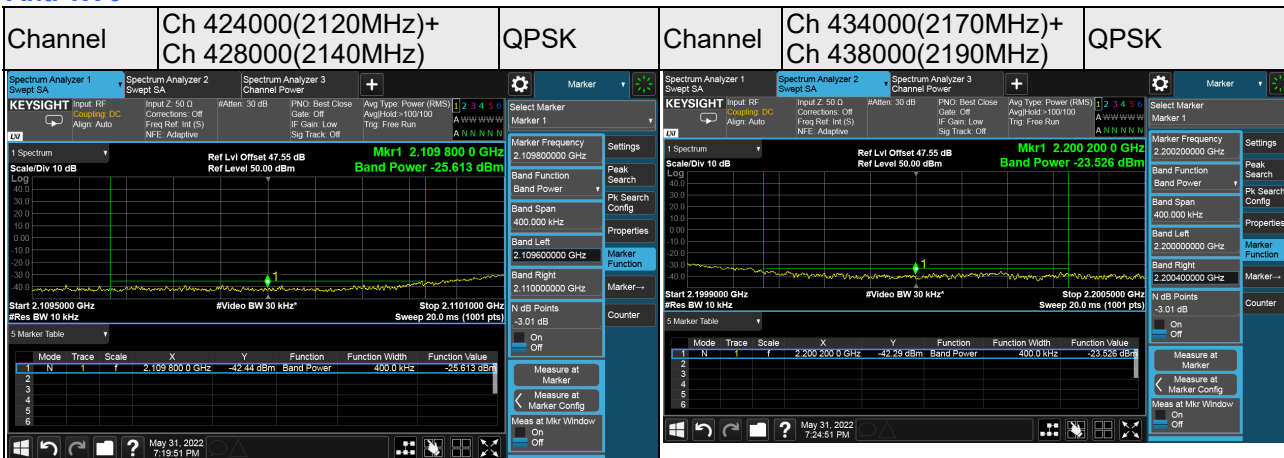


### Ant. TX 3

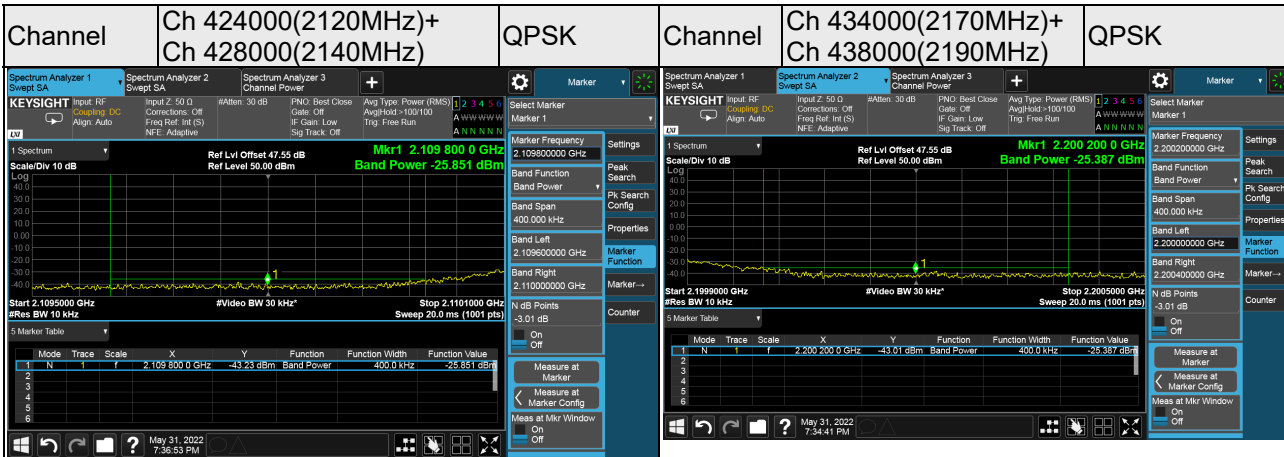


# CA Contiguous

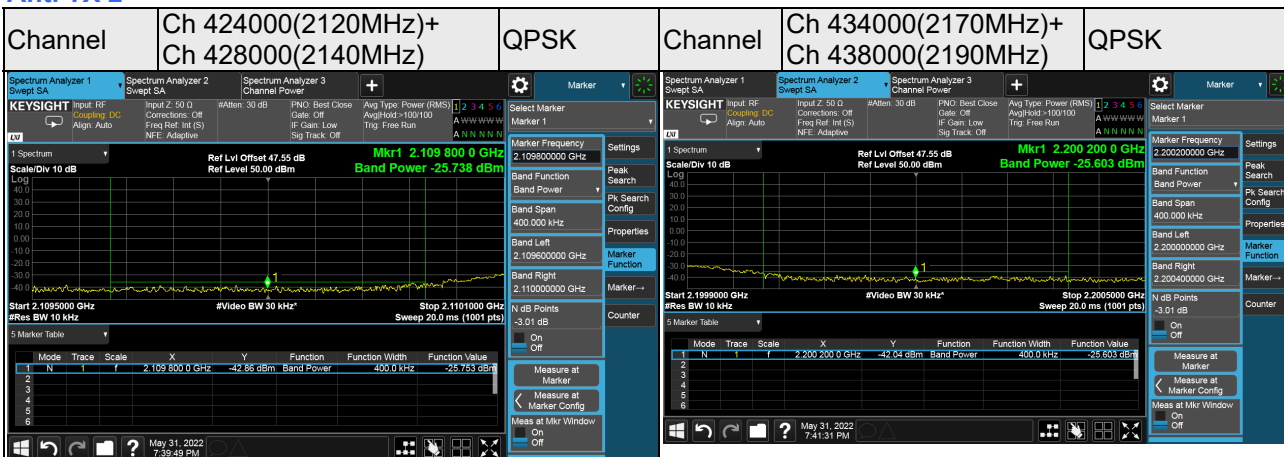
20MHz+20MHz  
Ant. TX 0



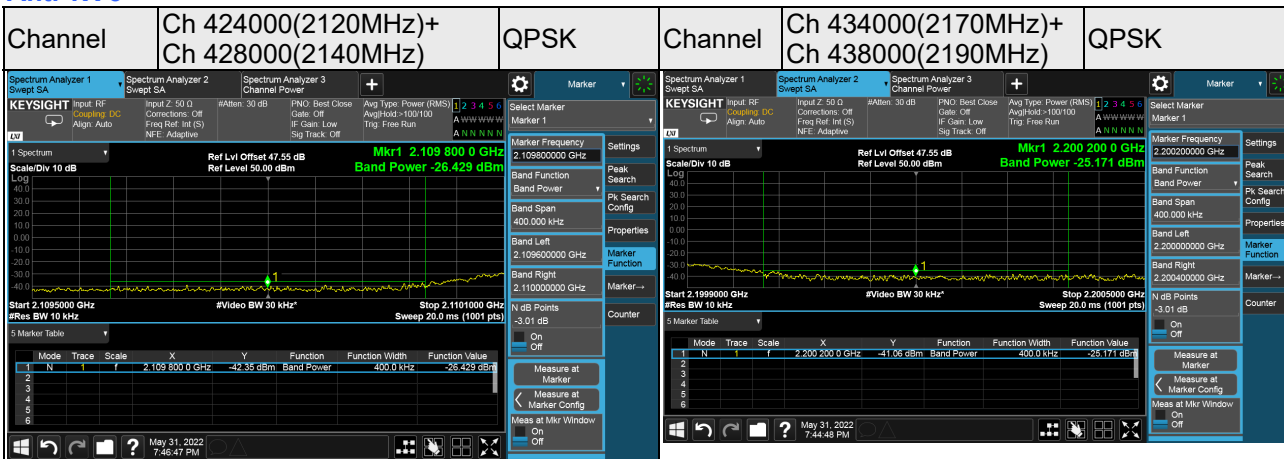
# Ant. TX 1



### Ant. TX 2

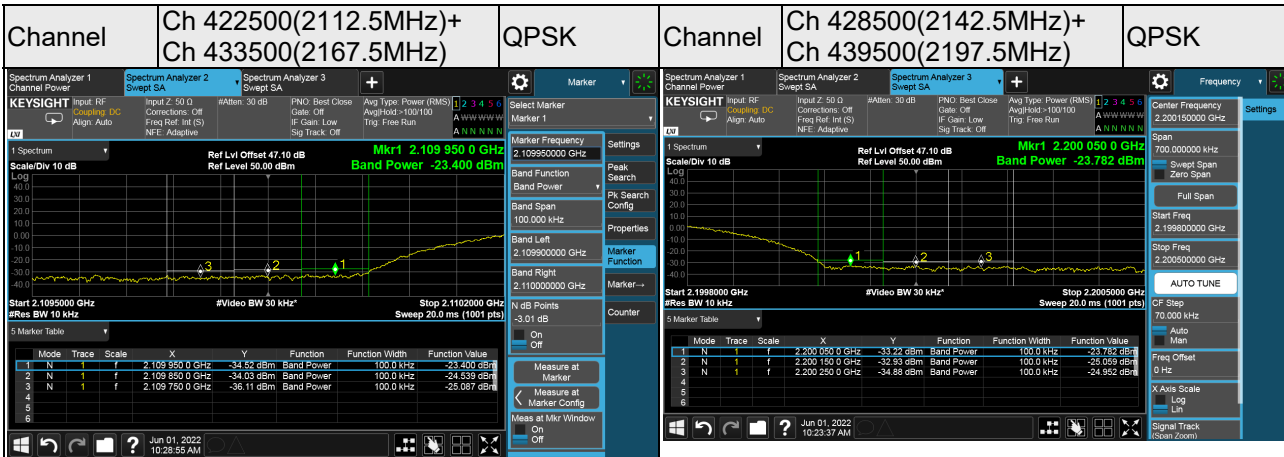


### Ant. TX 3

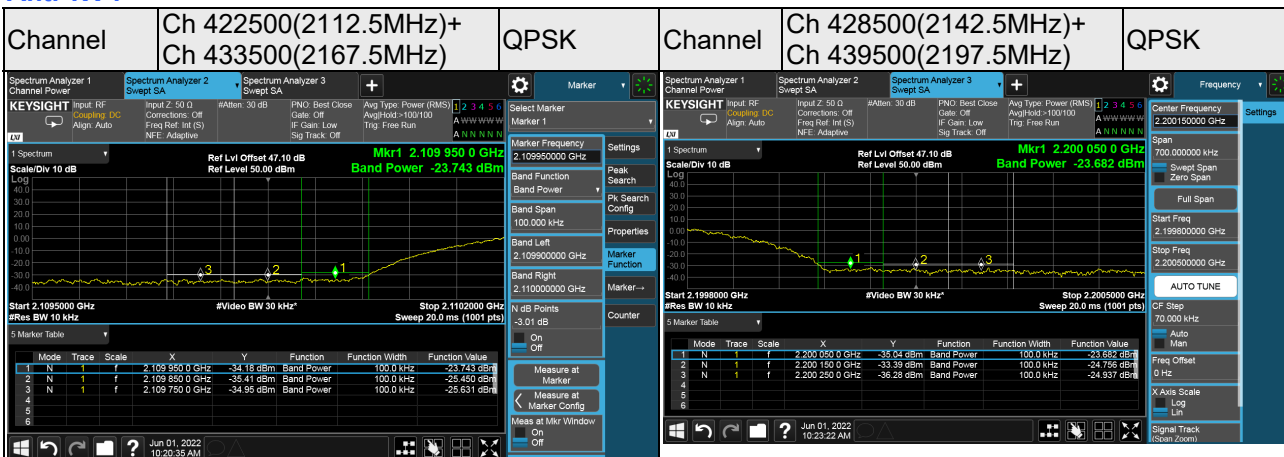


### CA-Non-Contiguous

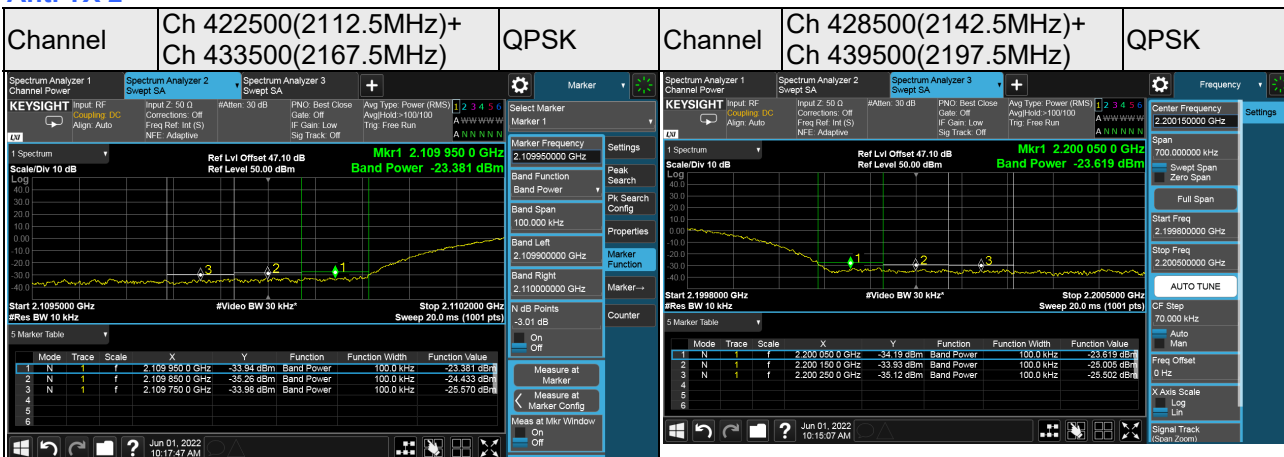
5MHz+5MHz  
Ant. TX 0



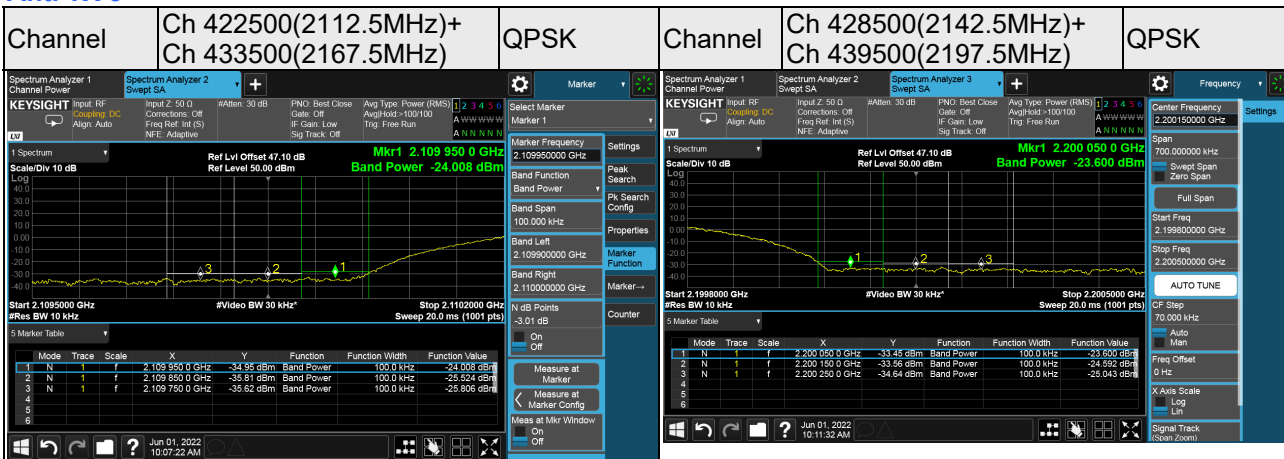
Ant. TX 1



Ant. TX 2

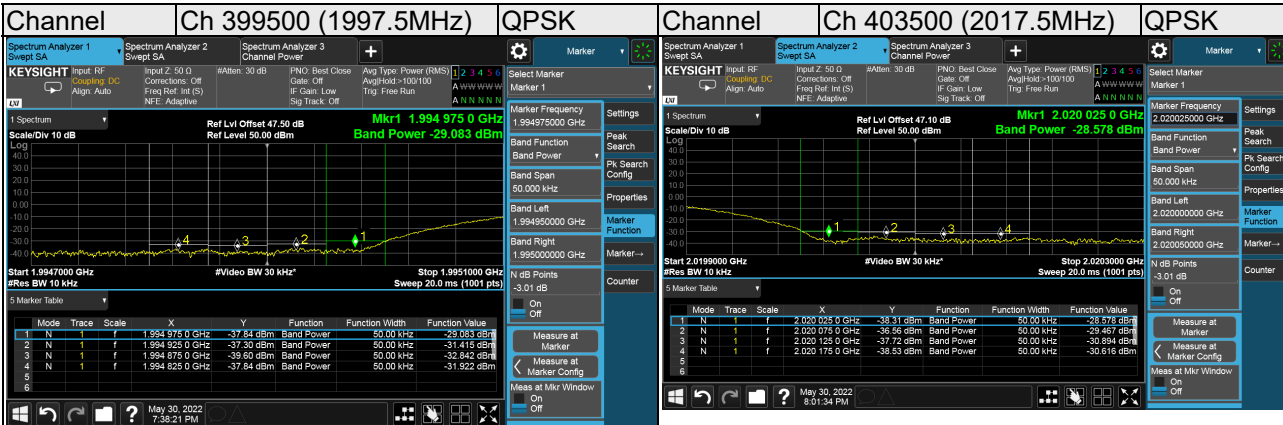


Ant. TX 3

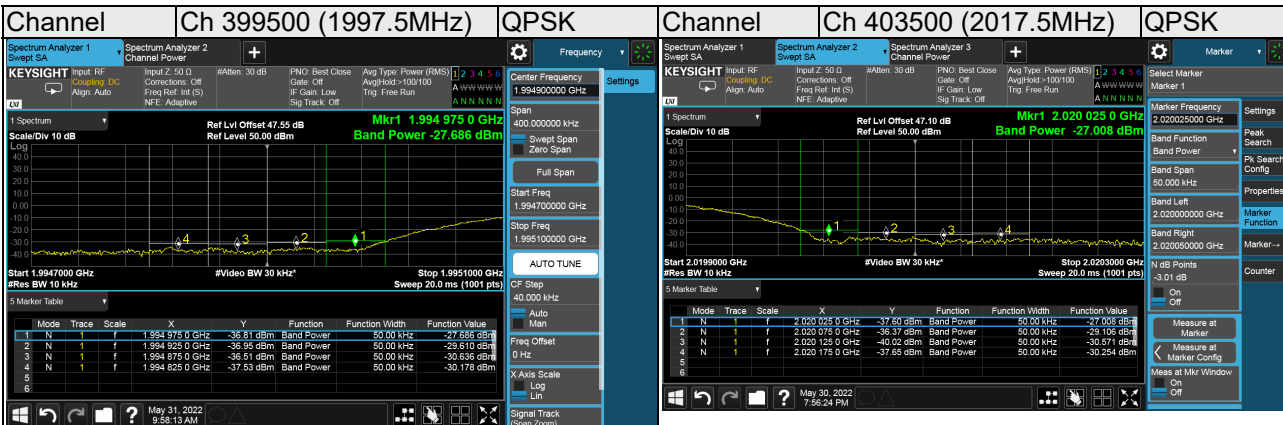


**Band n70  
Single Carrier**

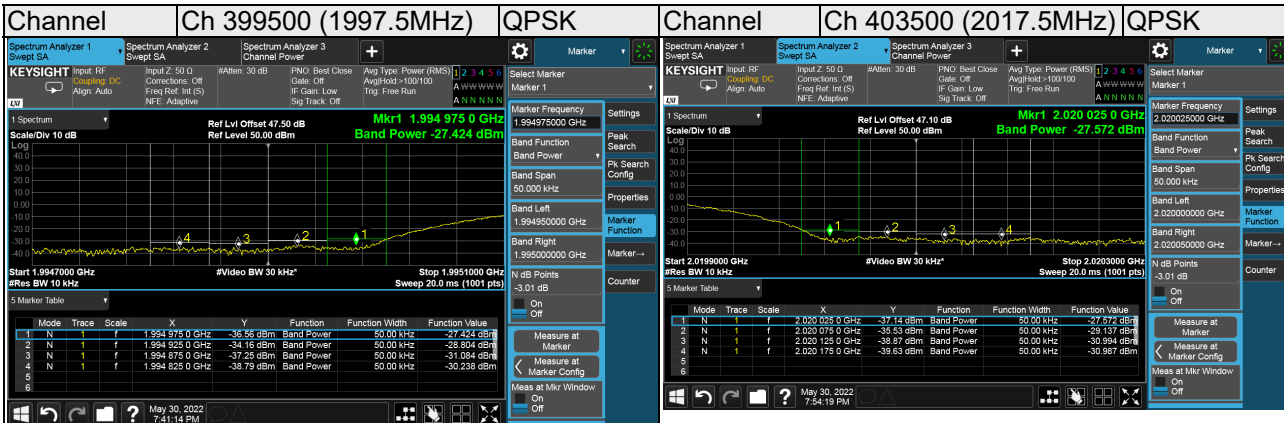
**5MHz  
Ant. TX 0**



**Ant. TX 1**



### Ant. TX 2



### Ant. TX 3

