

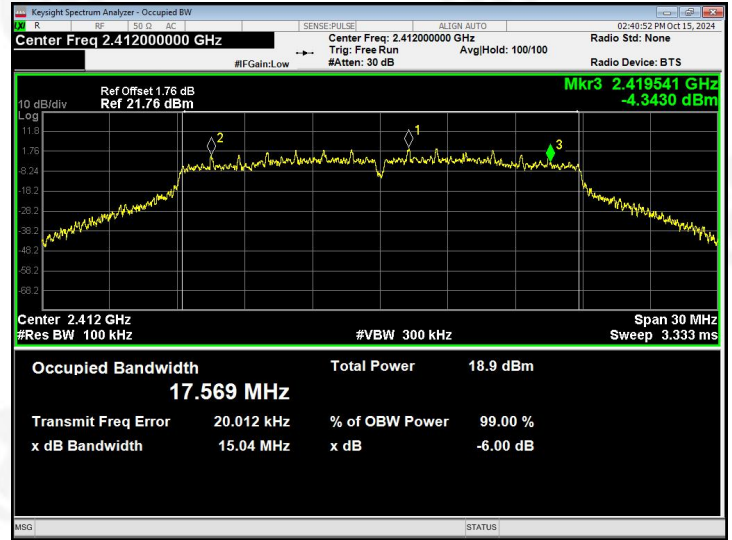
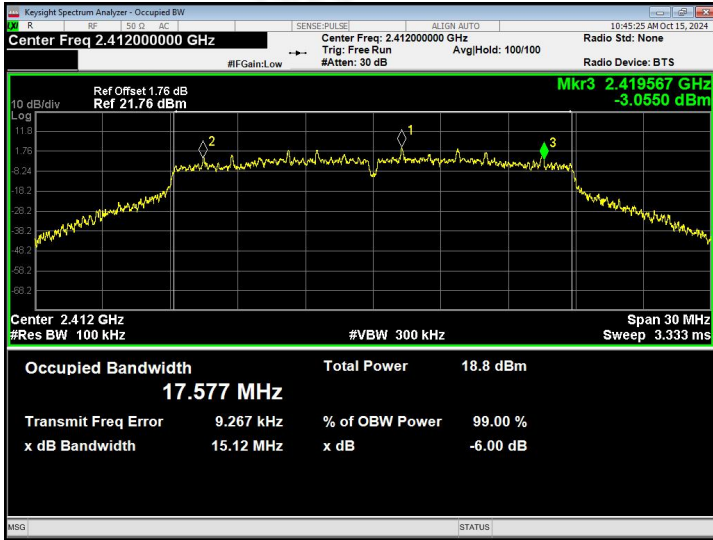


6dB Bandwidth - 802.11n20

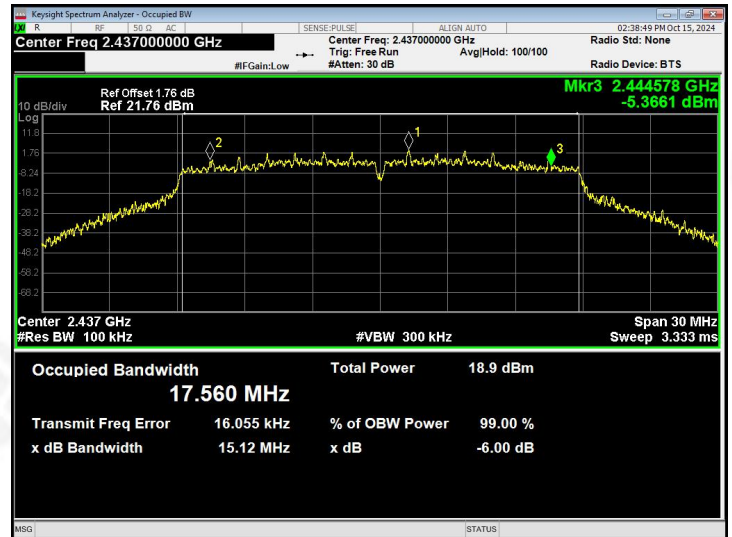
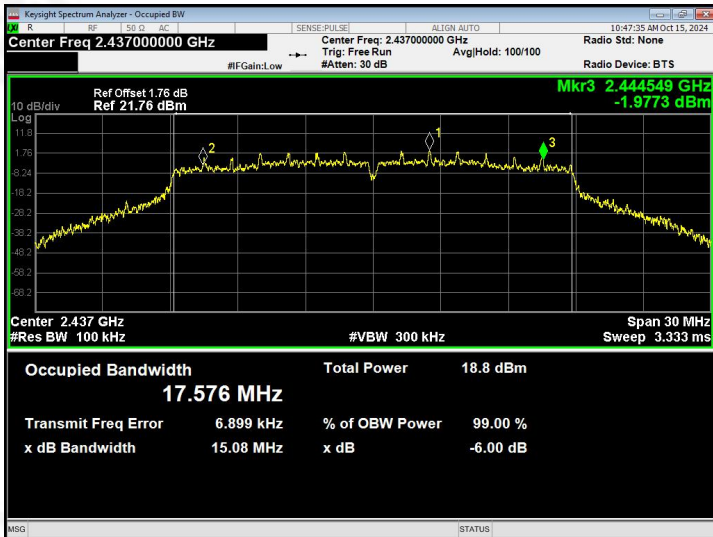
SISO ANT A

SISO ANT B

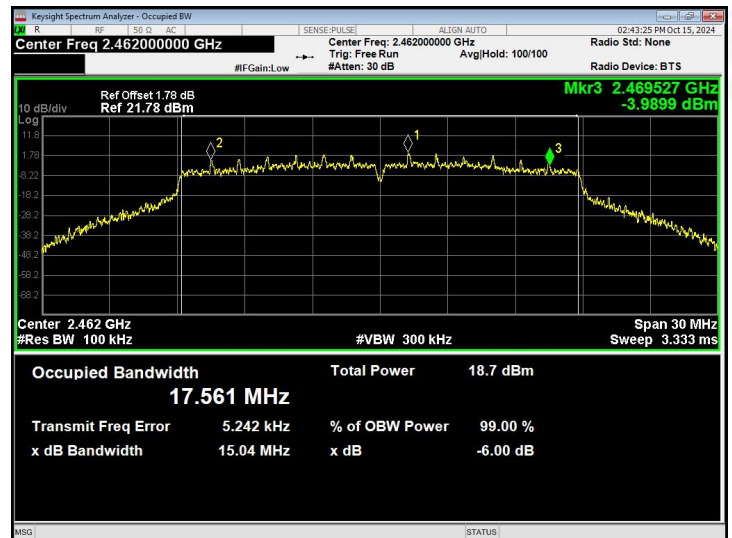
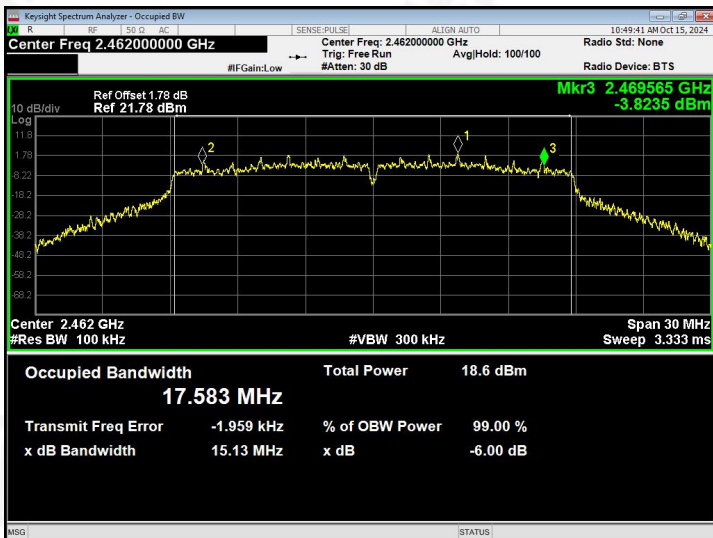
Lowest channel



Middle channel



Highest channel

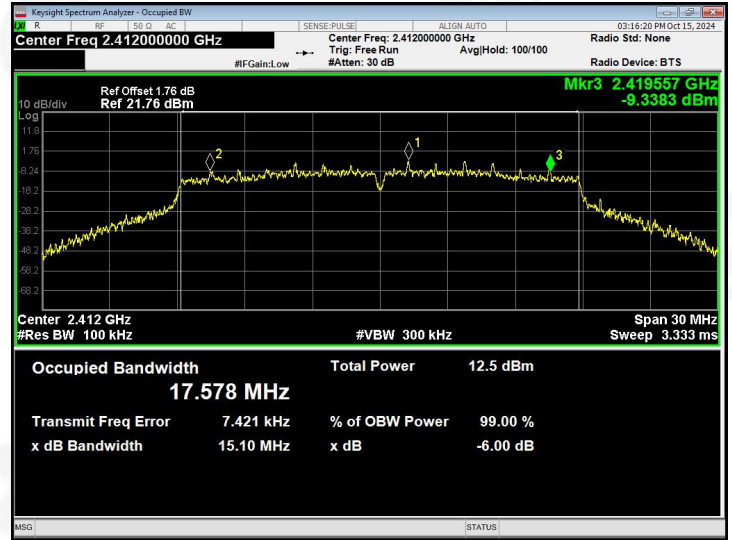
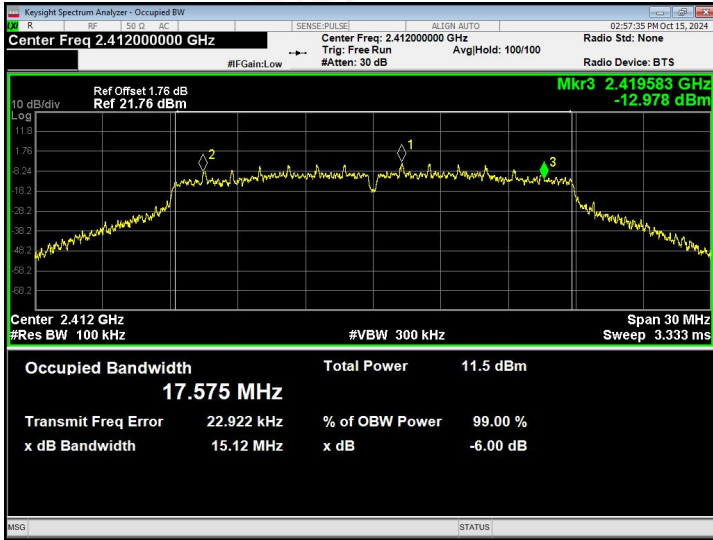




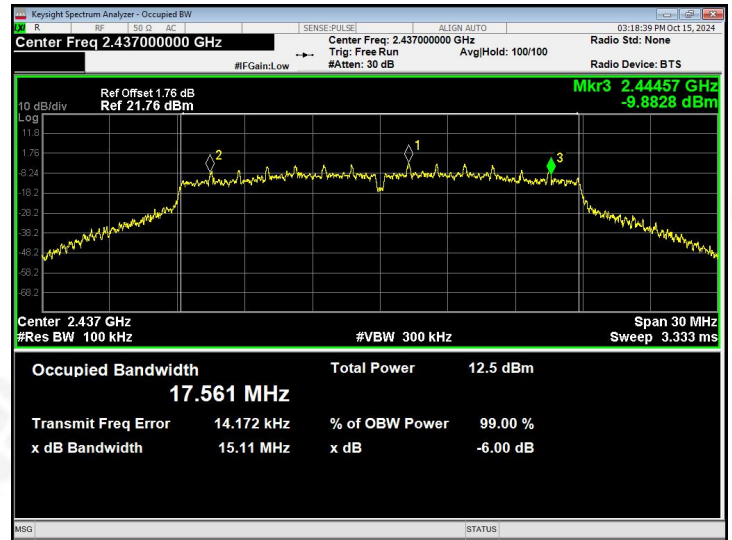
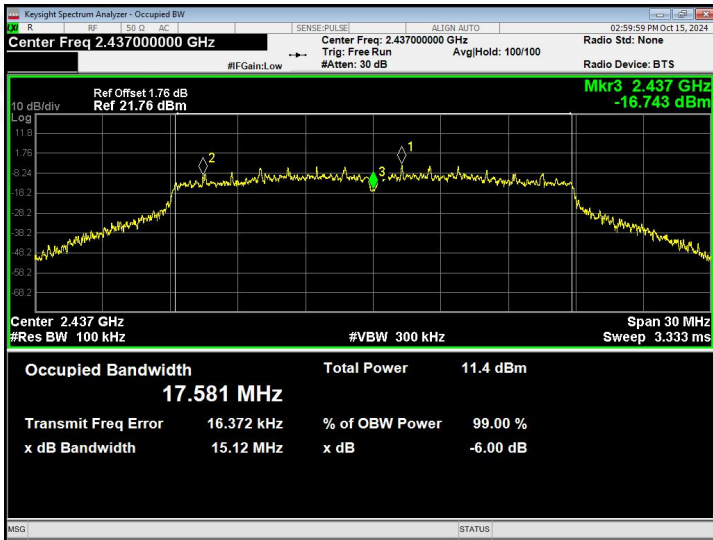
MIMO ANT A

MIMO ANT B

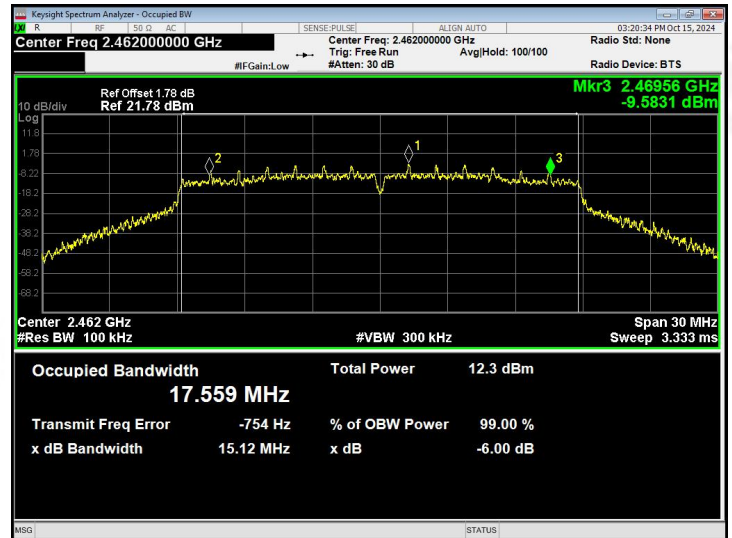
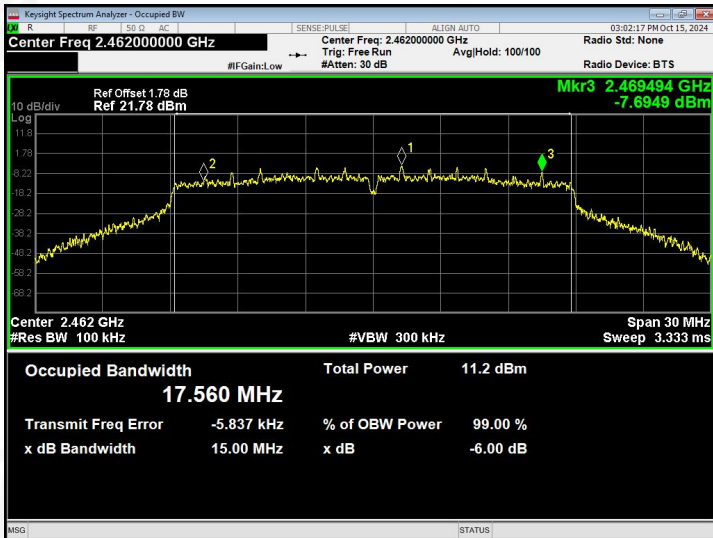
Lowest channel



Middle channel



Highest channel



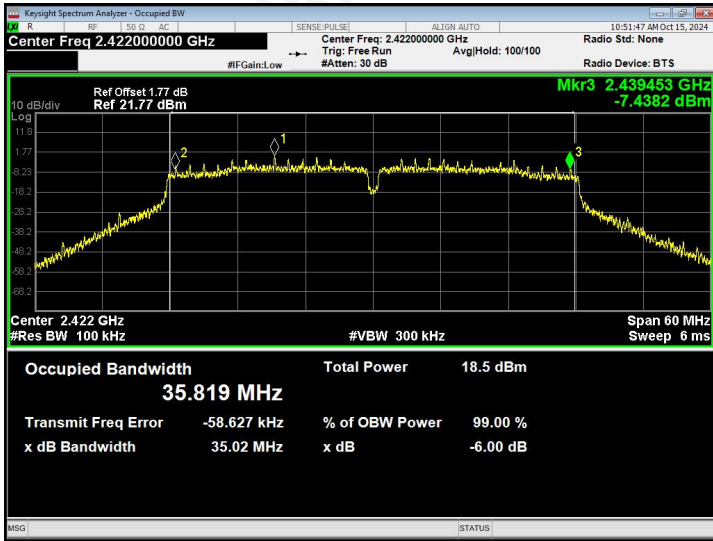


6dB Bandwidth - 802.11n40

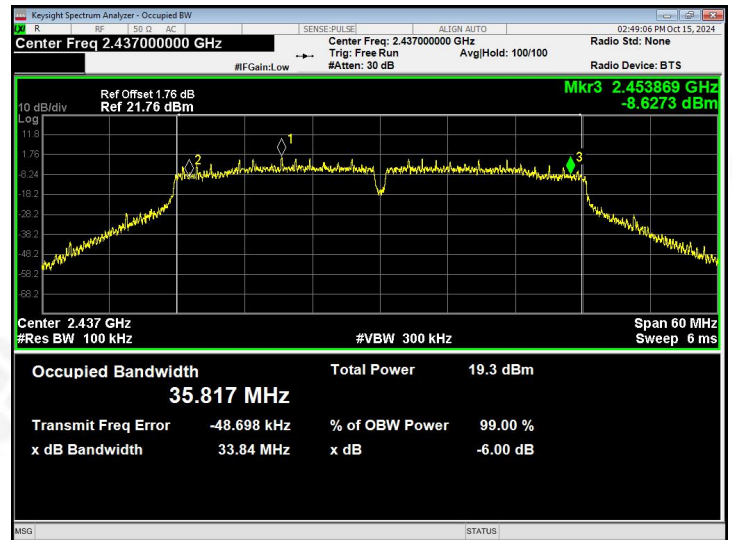
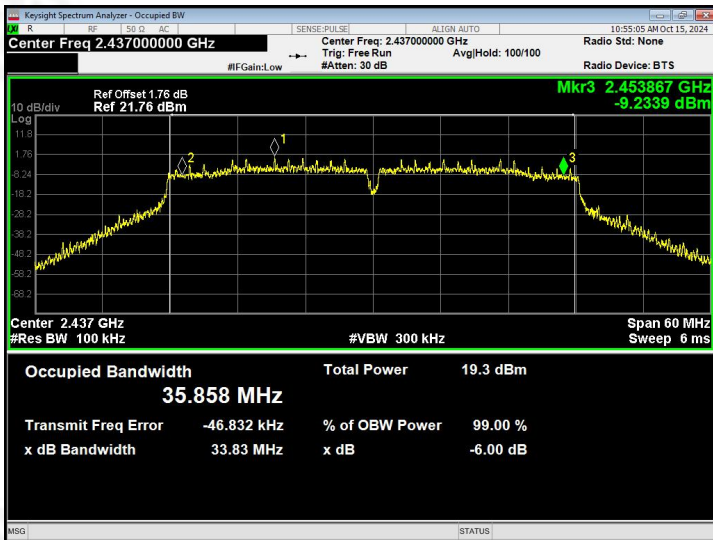
SISO ANT A

SISO ANT B

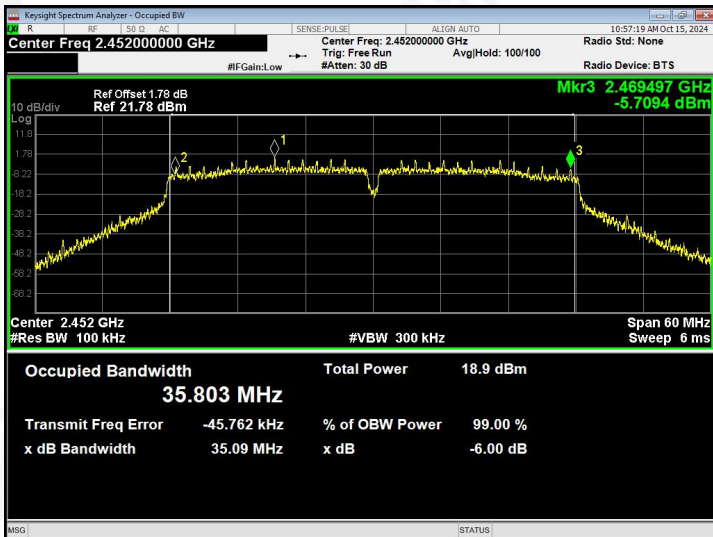
Lowest channel



Middle channel



Highest channel

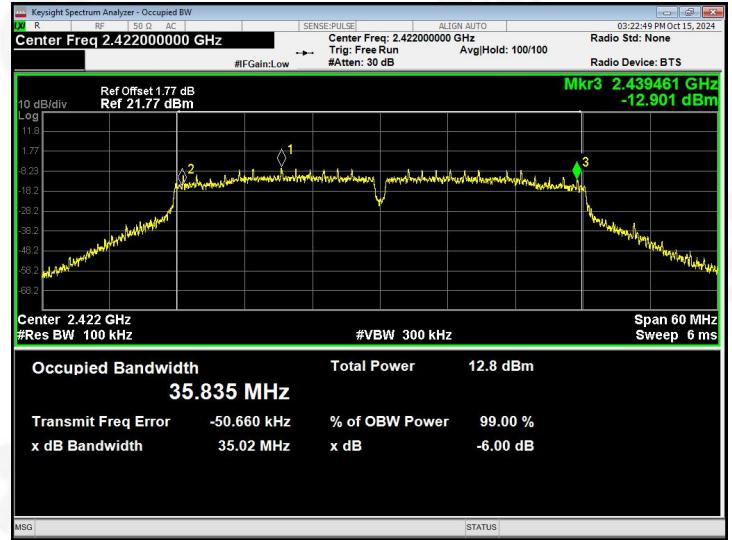




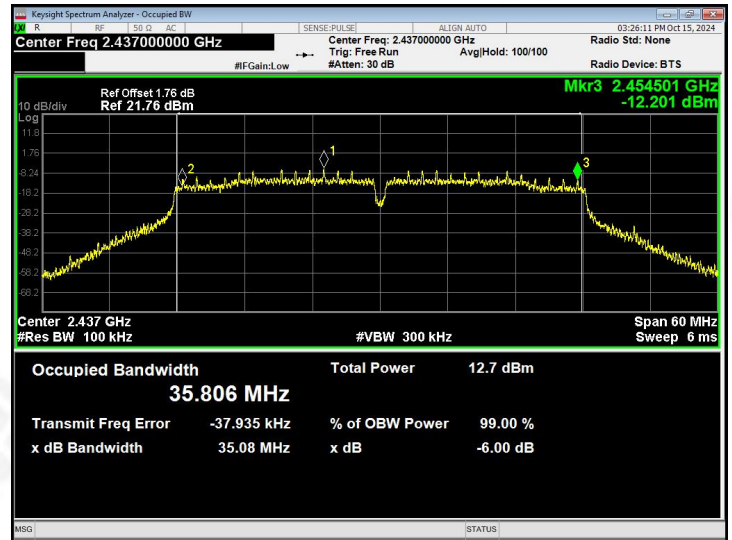
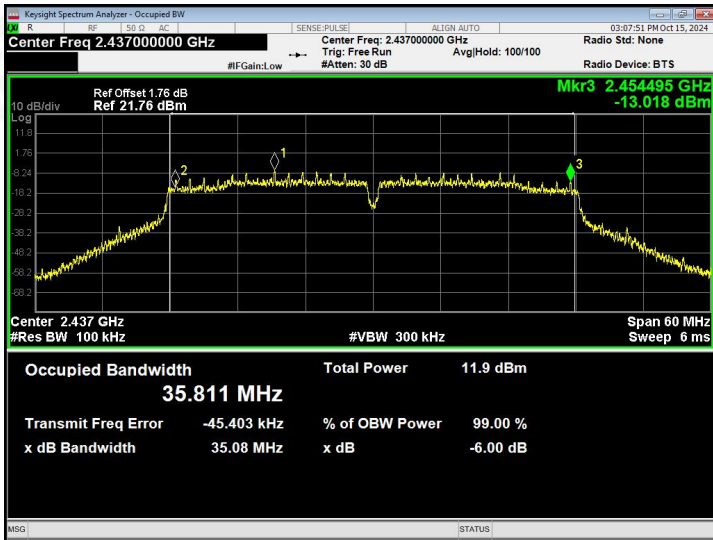
MIMO ANT A

MIMO ANT B

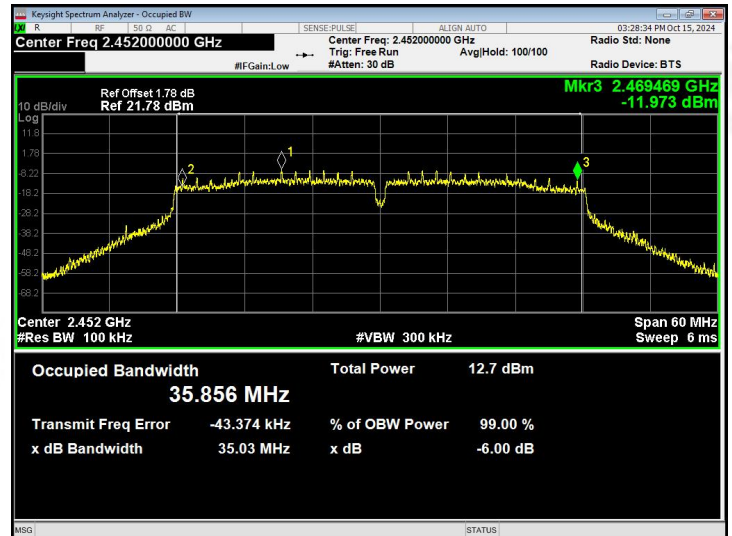
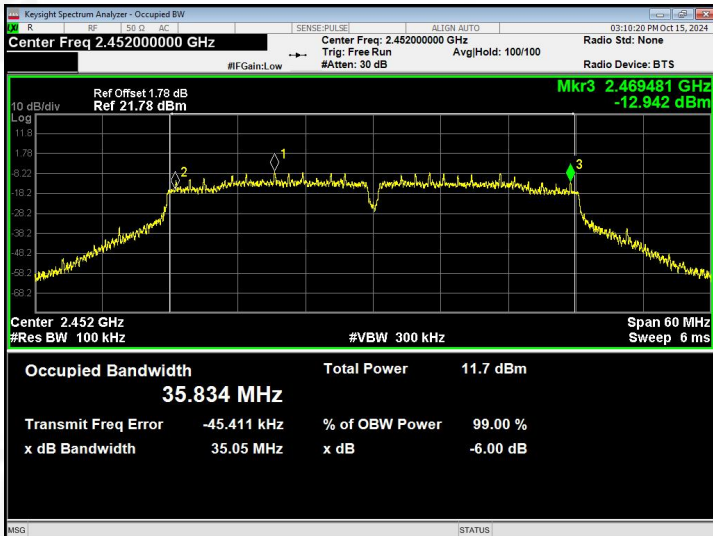
Lowest channel



Middle channel



Highest channel





### 8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

#### 8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

#### 8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

#### 8.3 DEVIATION FROM STANDARD

No deviation.

#### 8.4 TEST SETUP



#### 8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## 8.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V

Test Mode	Antenna	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Result
802.11b	SISO ANT A	2412	16.640	30.00	Pass
		2437	15.612		
		2462	15.355		
	SISO ANT B	2412	16.565	30.00	Pass
		2437	15.591		
		2462	15.352		
802.11g	SISO ANT A	2412	14.978	30.00	Pass
		2437	15.128		
		2462	14.994		
	SISO ANT B	2412	14.895	30.00	Pass
		2437	15.137		
		2462	14.970		
802.11n20	SISO ANT A	2412	14.068	30.00	Pass
		2437	13.994		
		2462	13.888		
	SISO ANT B	2412	14.093	30.00	Pass
		2437	13.906		
		2462	13.948		
	MIMO ANT A+B	2412	17.091	30.00	Pass
		2437	16.961		
		2462	16.928		
802.11n40	SISO ANT A	2422	13.647	30.00	Pass
		2437	14.502		
		2452	14.968		
	SISO ANT B	2422	13.632	30.00	Pass
		2437	14.587		
		2452	14.971		
	MIMO ANT A+B	2422	16.650	30.00	Pass
		2437	17.555		
		2452	17.980		



## 9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

### 9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

### 9.2 TEST PROCEDURE

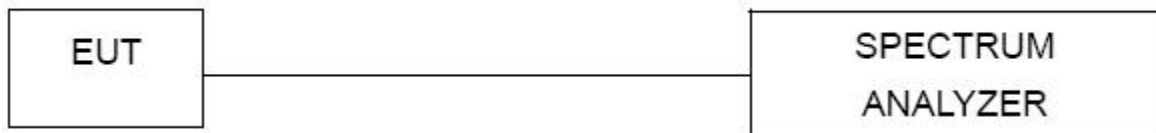
Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

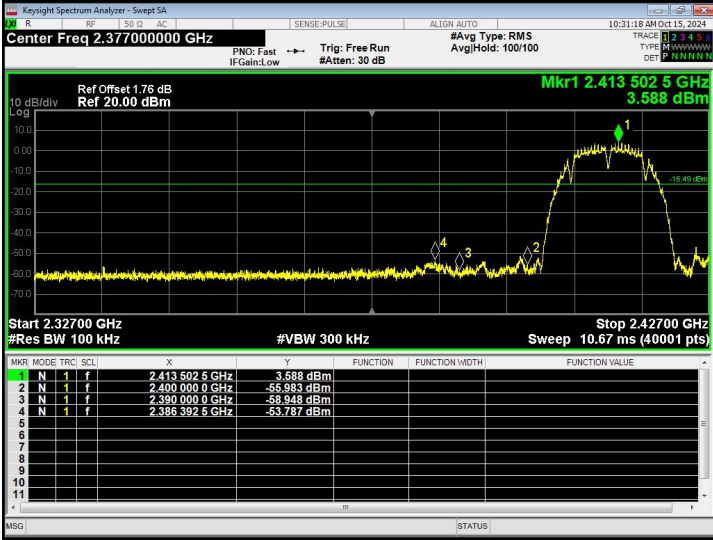
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 9.6 TEST RESULTS

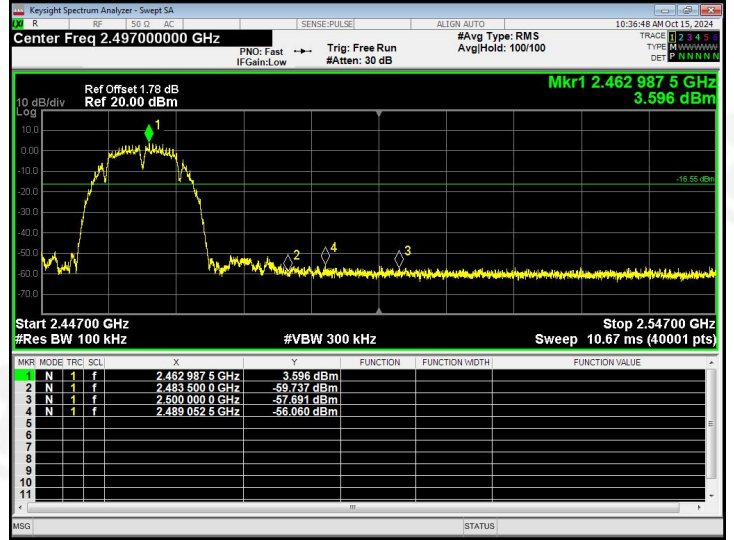


Test plot as follows:

### SISO ANT A - 802.11b

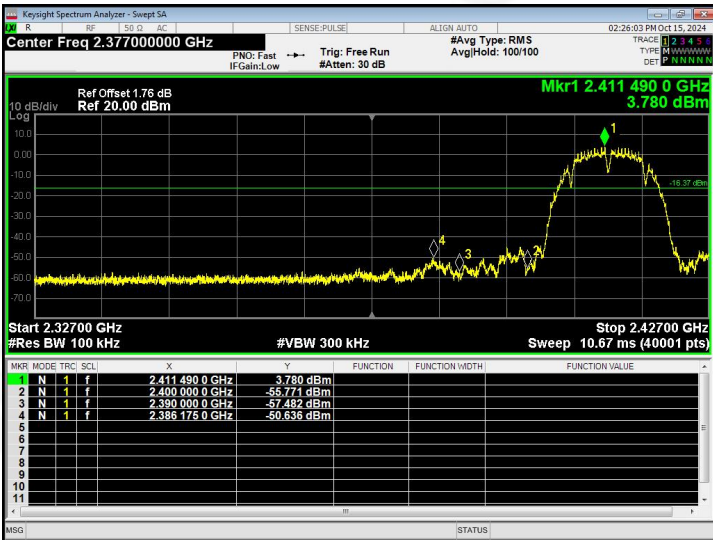


Lowest channel

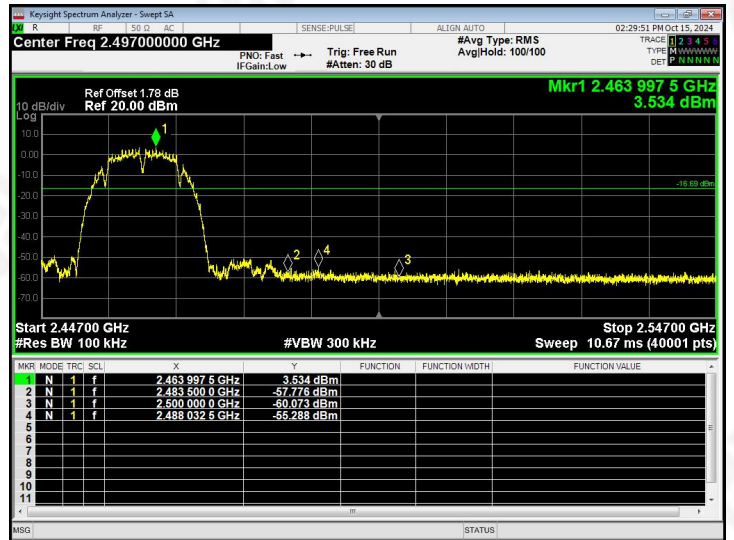


Highest channel

### SISO ANT B - 802.11b



Lowest channel

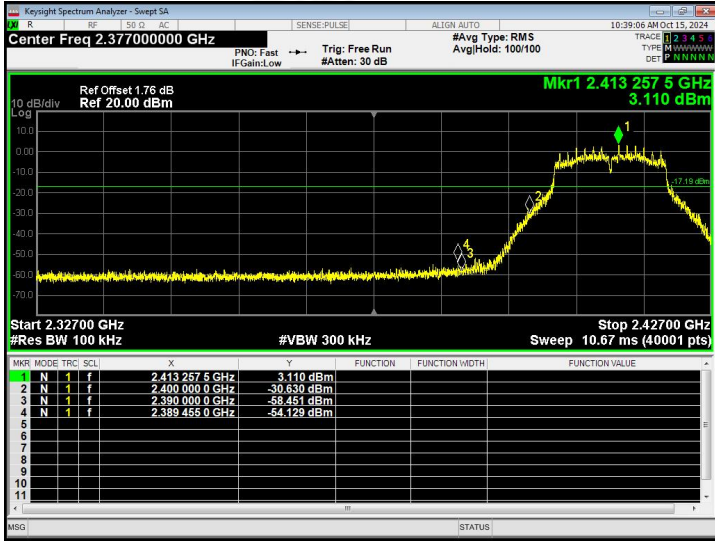


Highest channel

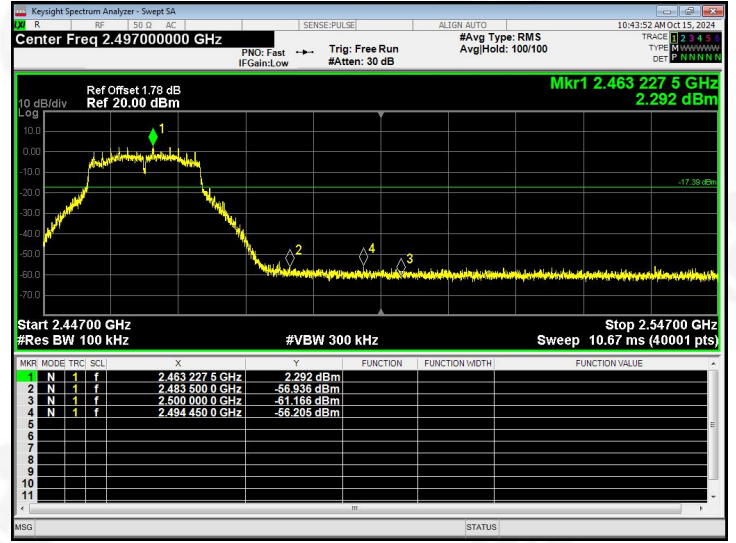




### SISO ANT A - 802.11g

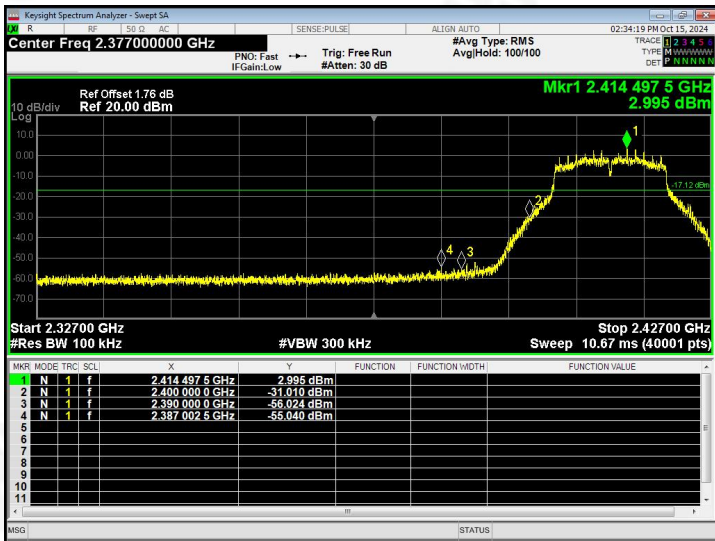


Lowest channel

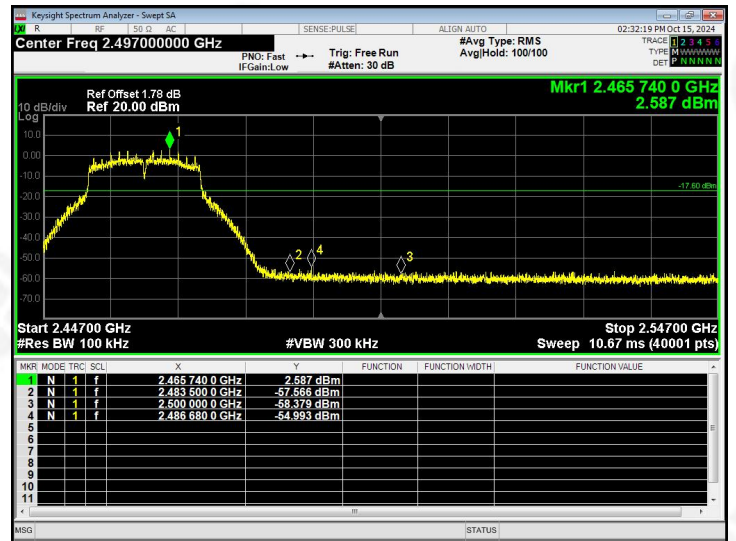


Highest channel

### SISO ANT B - 802.11g



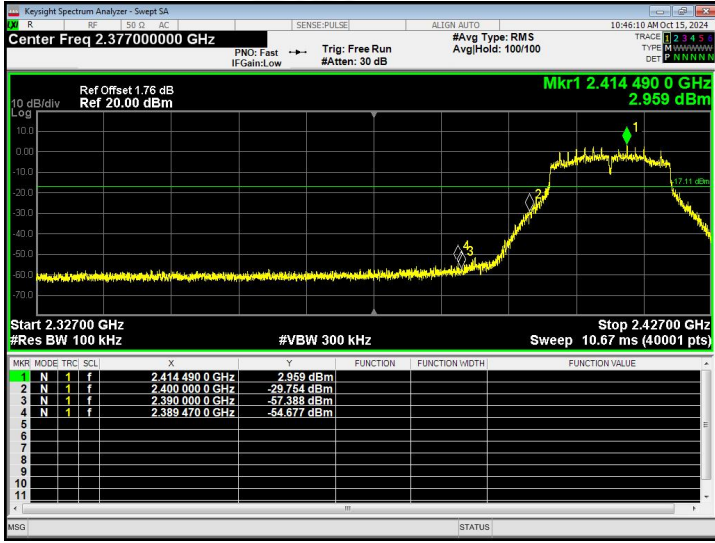
Lowest channel



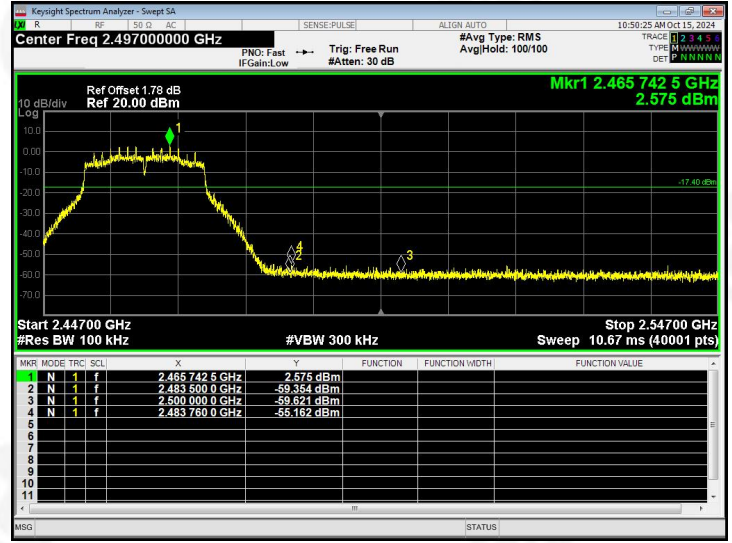
Highest channel



### SISO ANT A - 802.11n20

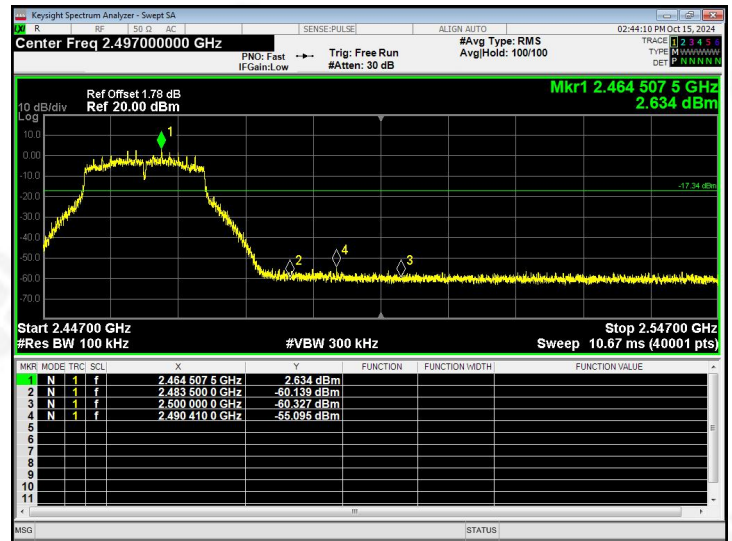
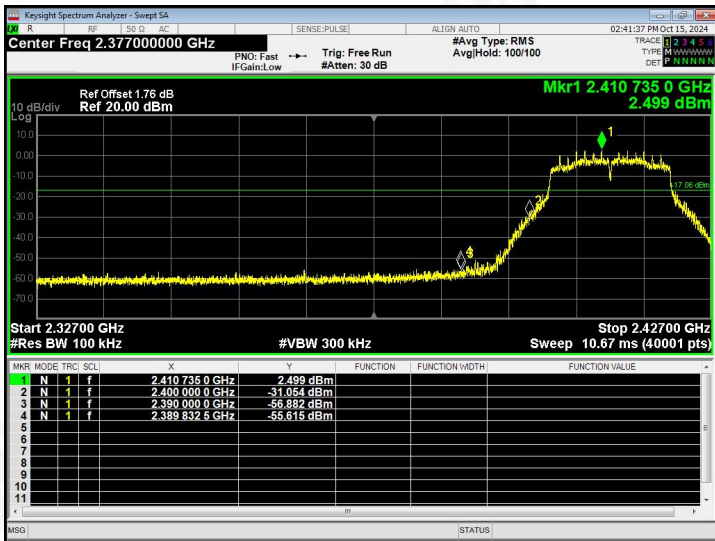


Lowest channel



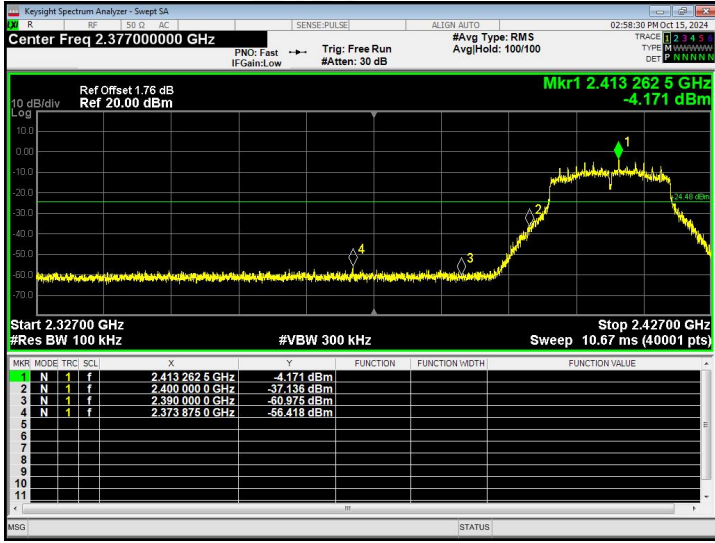
Highest channel

### SISO ANT B - 802.11n20

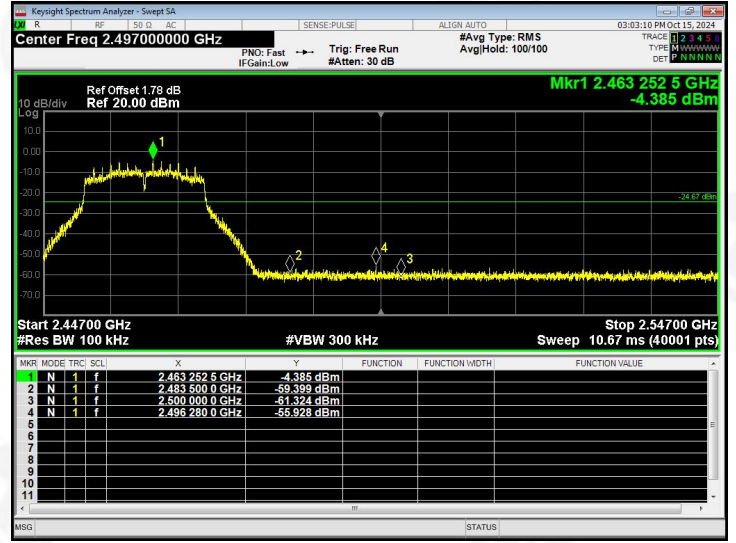




### MIMO ANT A - 802.11n20



Lowest channel



Highest channel

### MIMO ANT B - 802.11n20

