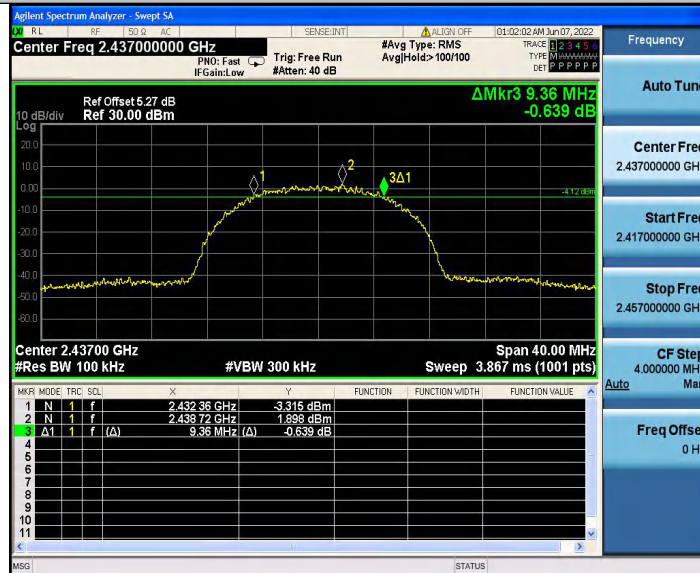




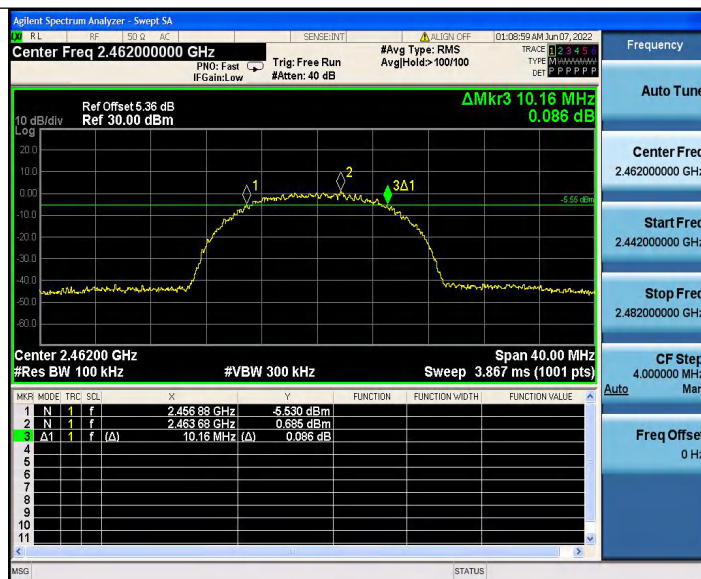
## 11B\_Ant1\_2412



## 11B\_Ant1\_2437



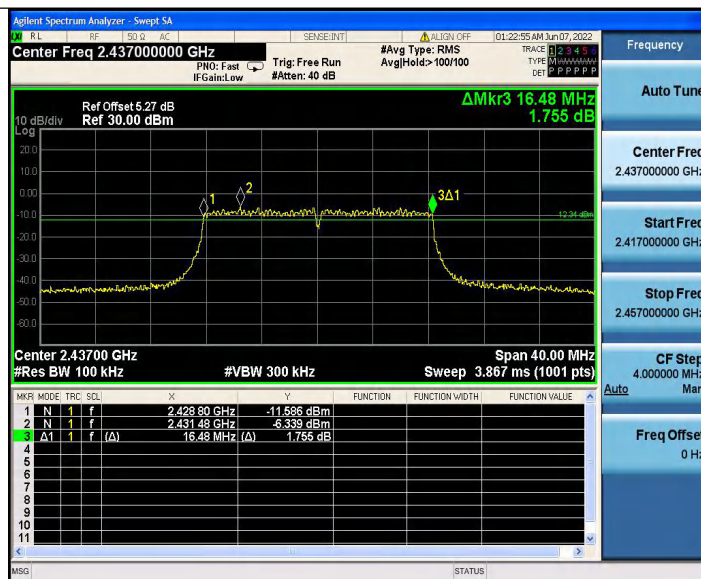
## 11B\_Ant1\_2462



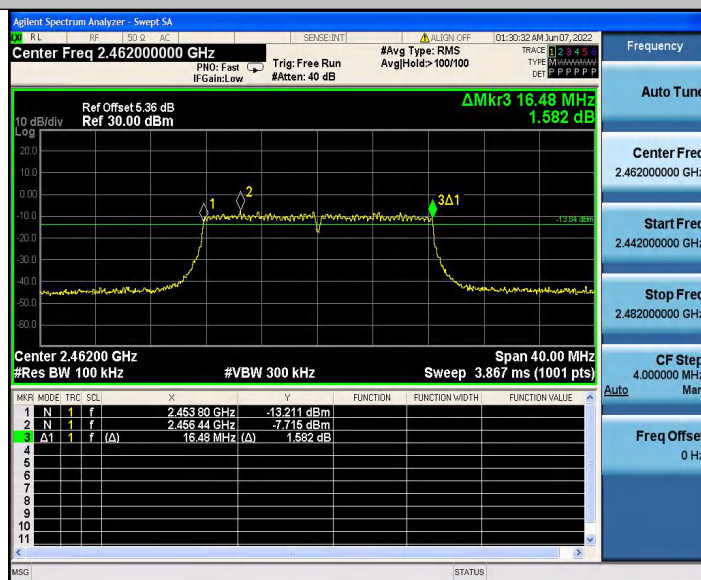
11G\_Ant1\_2412



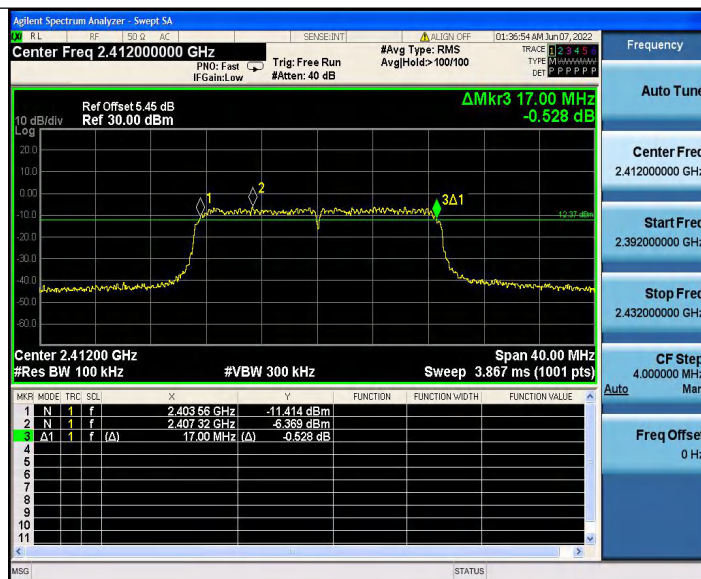
11G\_Ant1\_2437



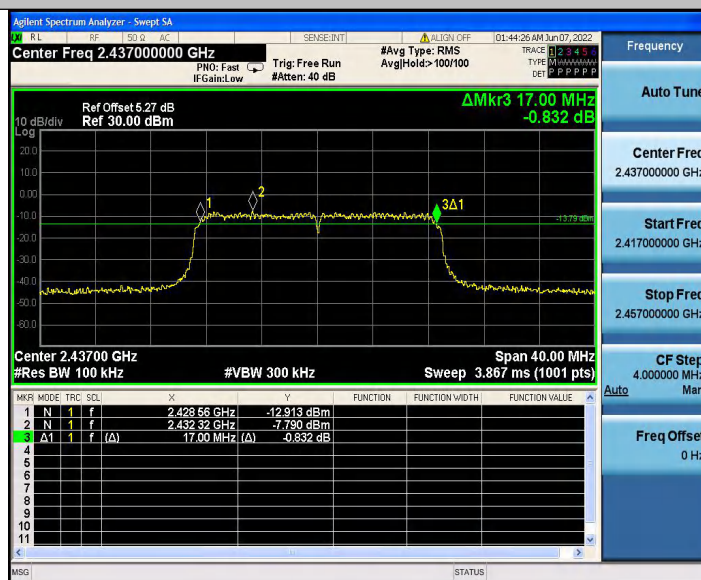
11G\_Ant1\_2462



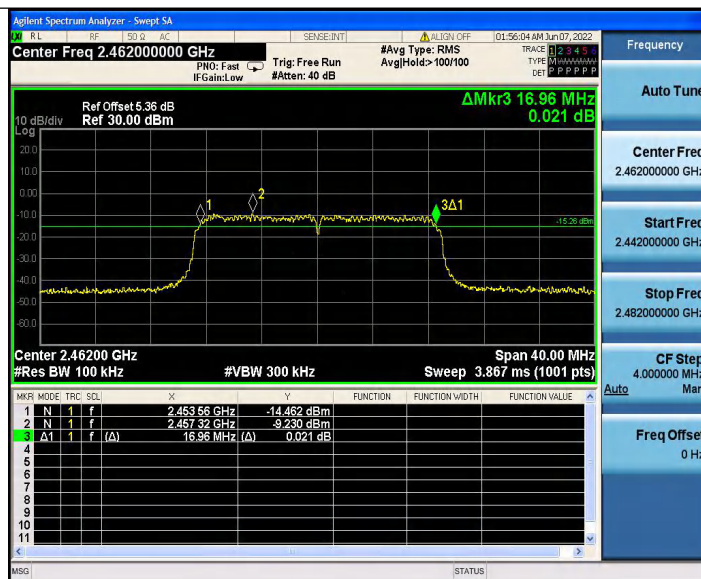
11N20SISO\_Ant1\_2412



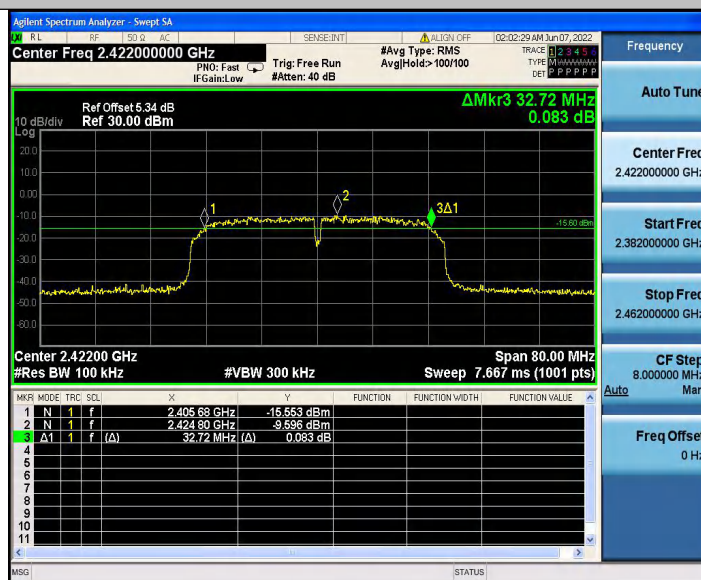
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

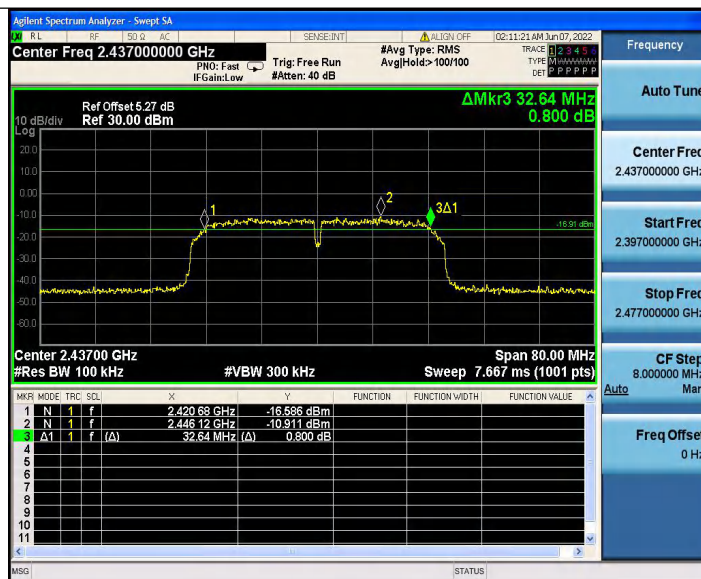


11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452





## 10 Maximum Peak Output Power

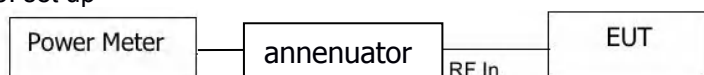
Test Requirement : FCC CFR47 Part 15 Section 15.247

Test Method : ANSI C63.10:2013

Test Limit : Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

### 10.1 Test Procedure

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05 section 8.3.1.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. set up



### 10.2 Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.94	≤30.00	PASS
		2437	16.31	≤30.00	PASS
		2462	15.33	≤30.00	PASS
11G	Ant1	2412	15.34	≤30.00	PASS
		2437	13.50	≤30.00	PASS
		2462	11.89	≤30.00	PASS
11N20SISO	Ant1	2412	13.78	≤30.00	PASS
		2437	12.19	≤30.00	PASS
		2462	10.64	≤30.00	PASS
11N40SISO	Ant1	2422	12.79	≤30.00	PASS
		2437	11.55	≤30.00	PASS
		2452	10.79	≤30.00	PASS



## 11 Power Spectral density

Test Requirement : FCC CFR47 Part 15 Section 15.247

Test Method : ANSI C63.10:2013

Test Limit : Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 11.1 Test Procedure

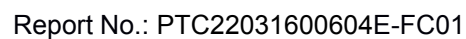
1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below:  
Center frequency=DTS channel center frequency  
Span = 1.5 times the DTS bandwidth  
RBW = 3KHz, VBW = 10KHz  
Sweep time = auto couple  
Detector = peak  
Trace mode =max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW(no less than 3KHz) and repeat.
6. Set up

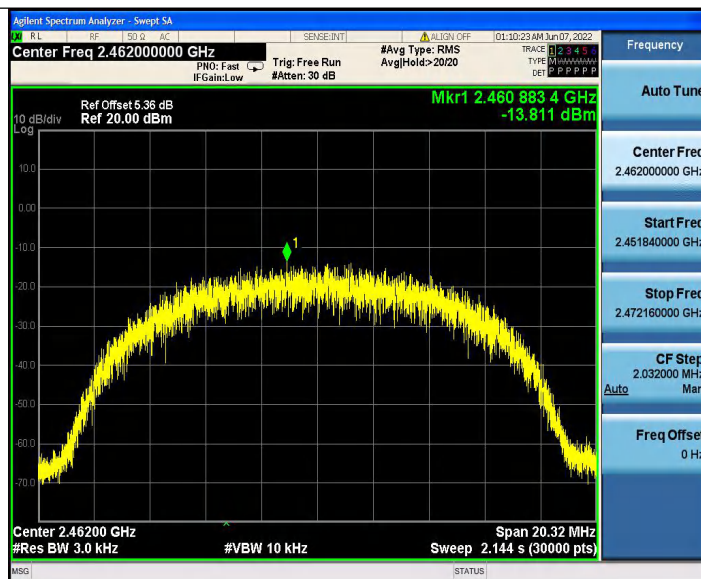


### 11.2 Test Result

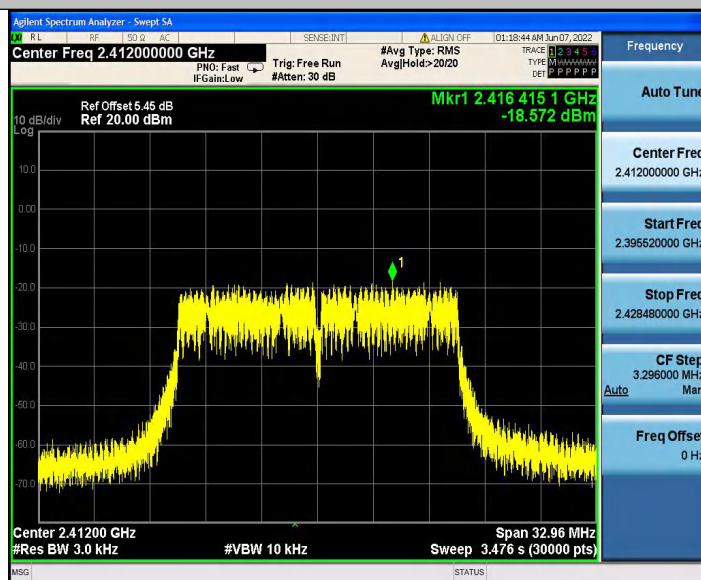
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.2	≤8.00	PASS
		2437	-12.76	≤8.00	PASS
		2462	-13.81	≤8.00	PASS
11G	Ant1	2412	-18.57	≤8.00	PASS
		2437	-20.41	≤8.00	PASS
		2462	-22.1	≤8.00	PASS
11N20SISO	Ant1	2412	-20.02	≤8.00	PASS
		2437	-21.87	≤8.00	PASS
		2462	-23.33	≤8.00	PASS
11N40SISO	Ant1	2422	-22.43	≤8.00	PASS
		2437	-23.78	≤8.00	PASS



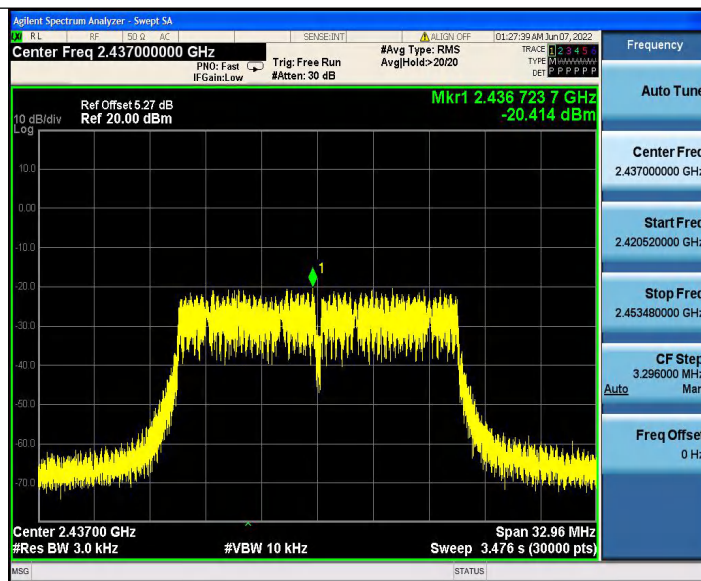




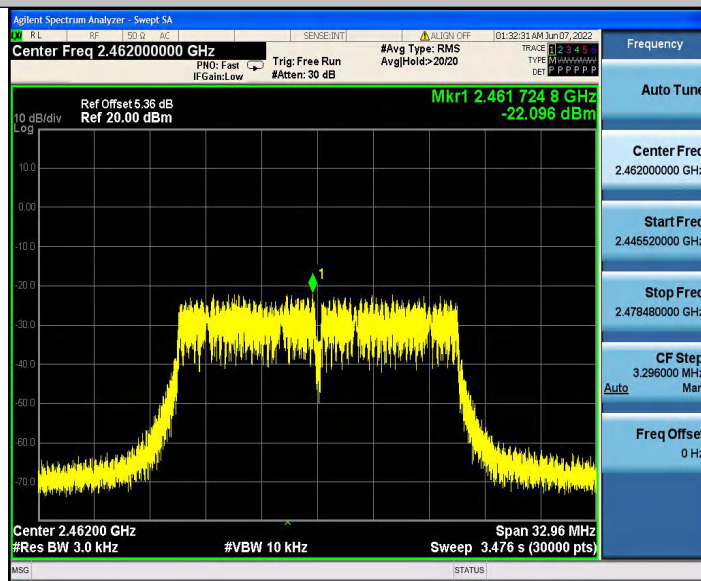
11G\_Ant1\_2412



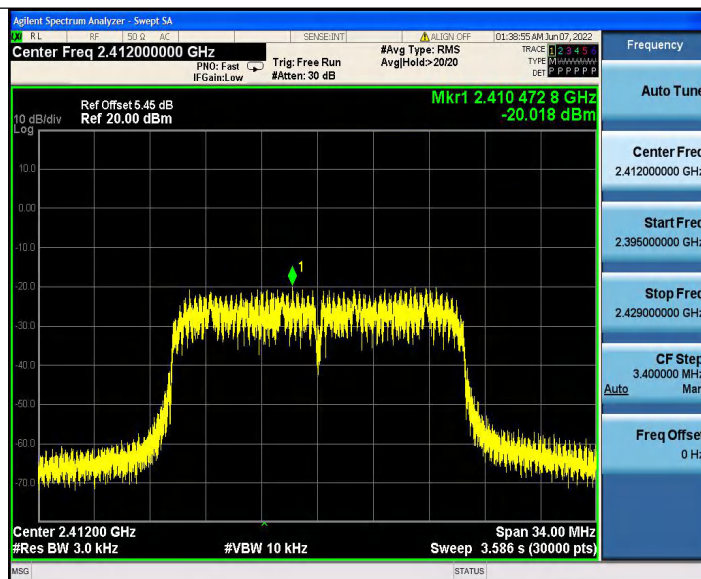
11G\_Ant1\_2437



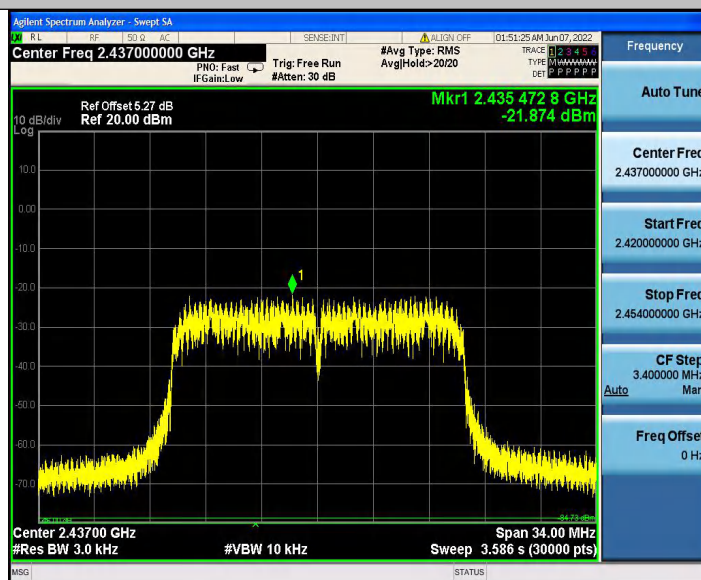
11G\_Ant1\_2462



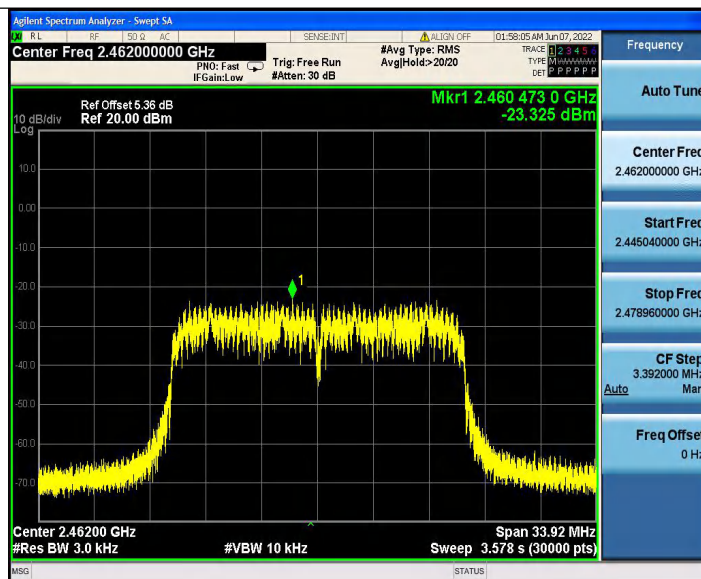
11N20SISO\_Ant1\_2412



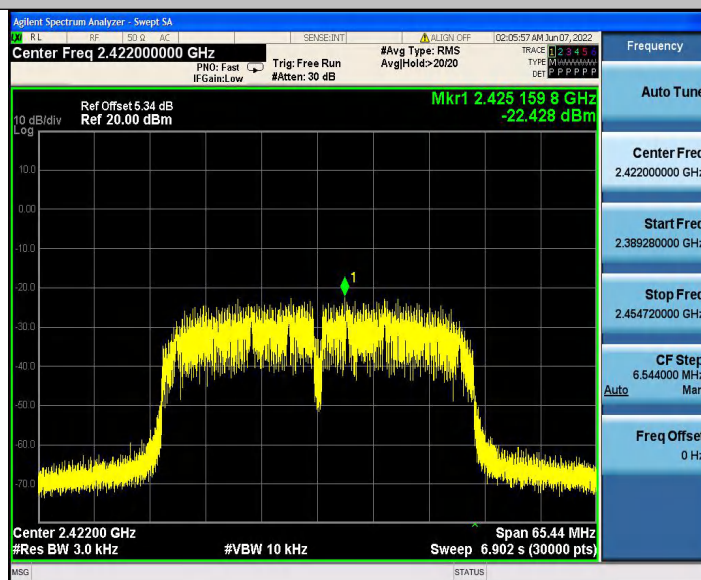
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

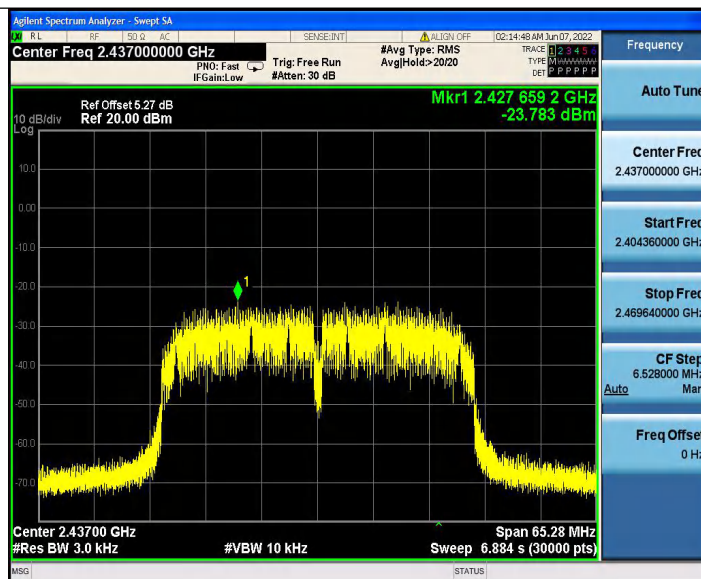


11N40SISO\_Ant1\_2422

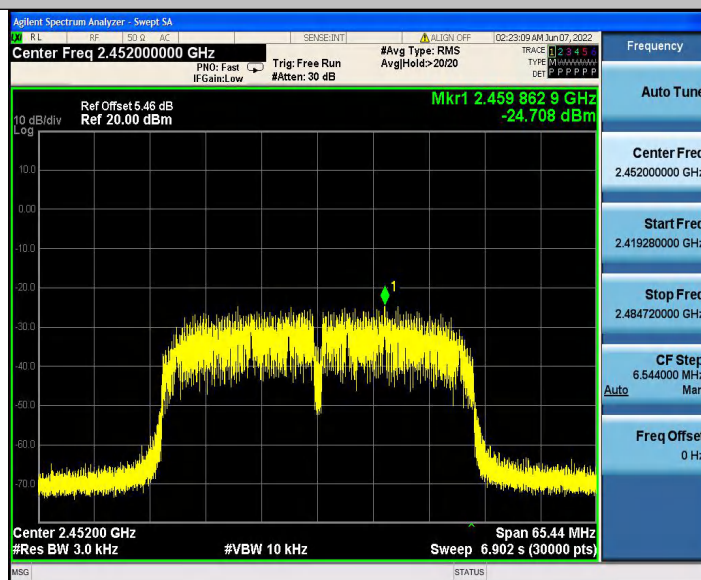


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452







## **12 Antenna Application**

### **12.1 Antenna Requirement**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **12.2 Result**

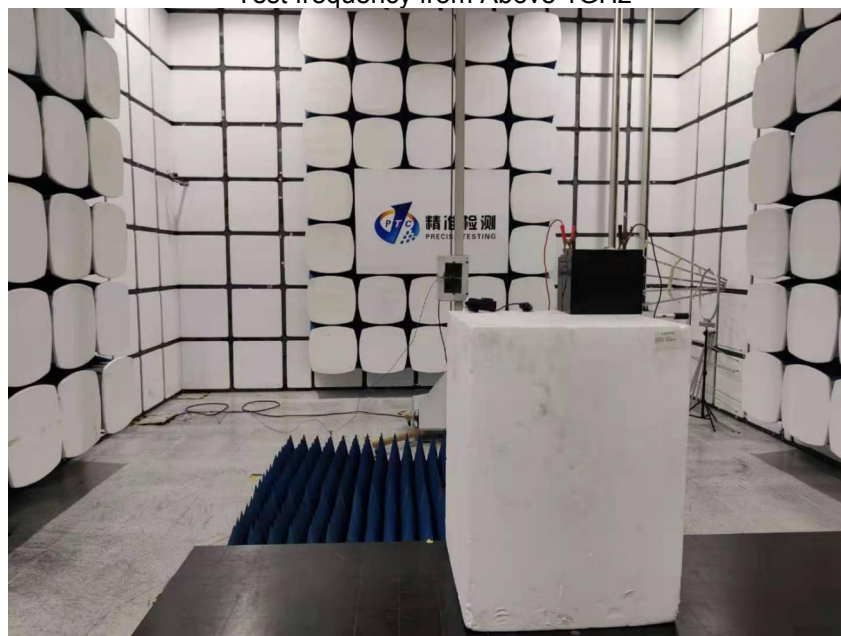
The EUT'S antenna, permanent attached antenna, is ceramic antenna. The antenna's gain is 3 dBi and meets the requirement.

## 13 Test Setup

Radiated Spurious Emissions  
From 30MHz-1000MHz



Test frequency from Above 1GHz





Report No.: PTC22031600604E-FC01

## 14 EUT PHOTOS

Reference file External Photo and Internal Photo.

**\*\*\*\*\*THE END REPORT\*\*\*\*\***