

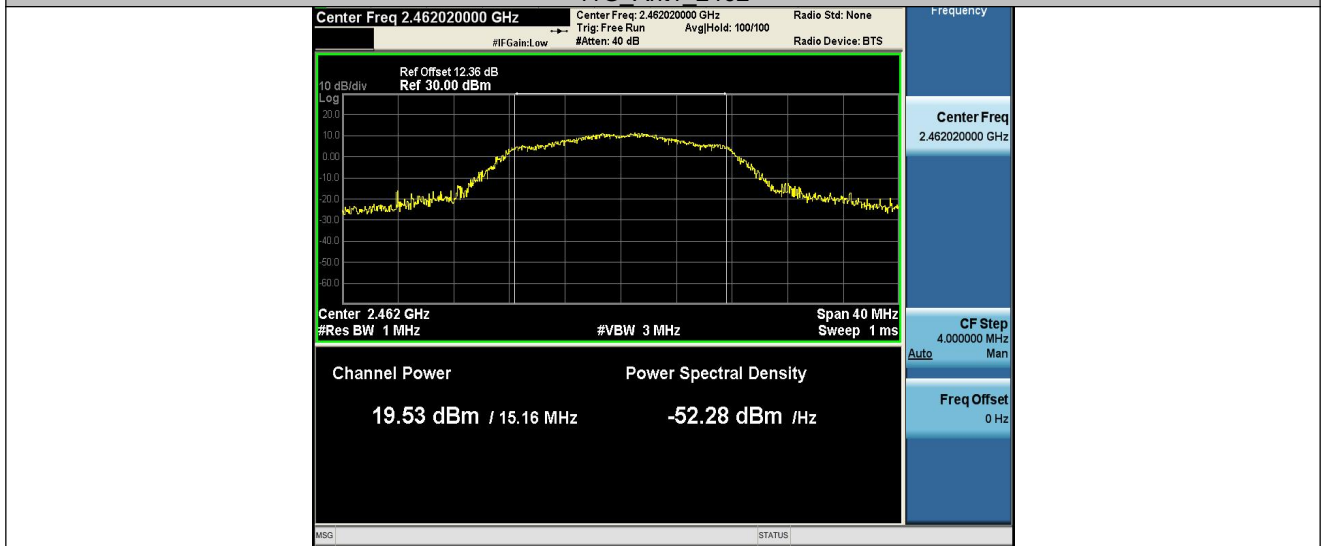
11G Ant1 2412



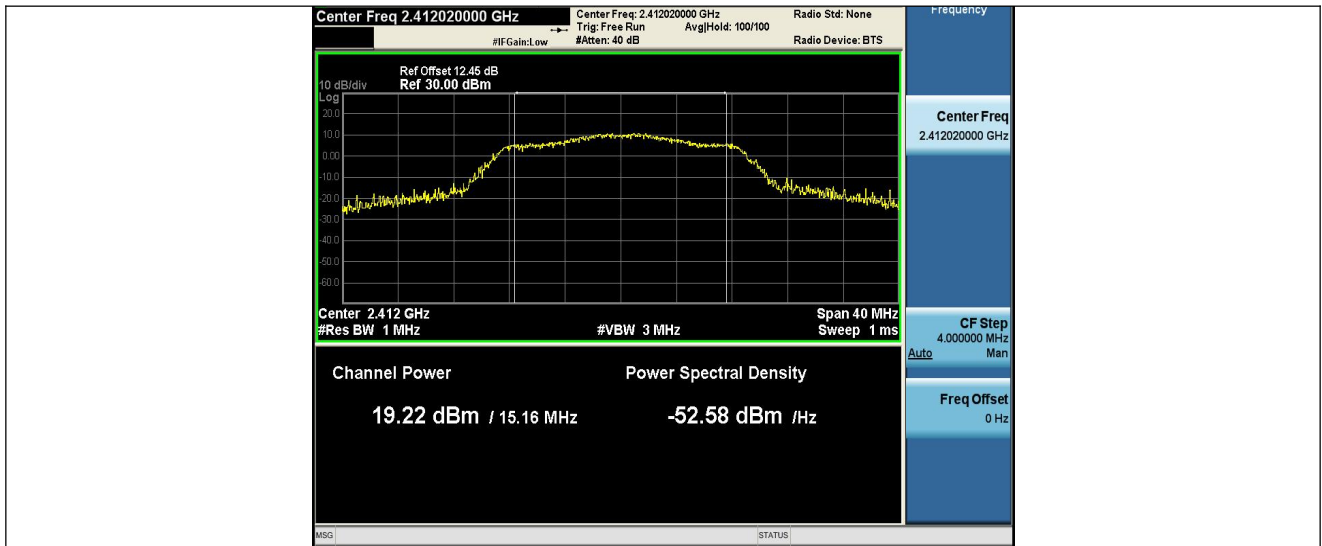
11G Ant1 2437



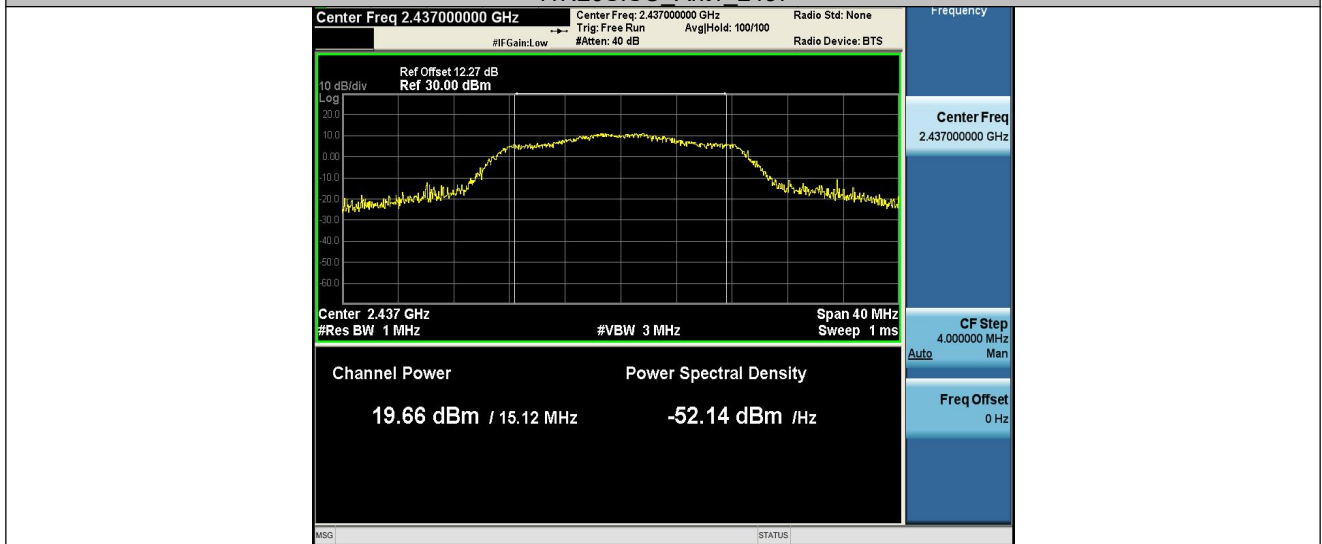
11G Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





11 Power Spectral density

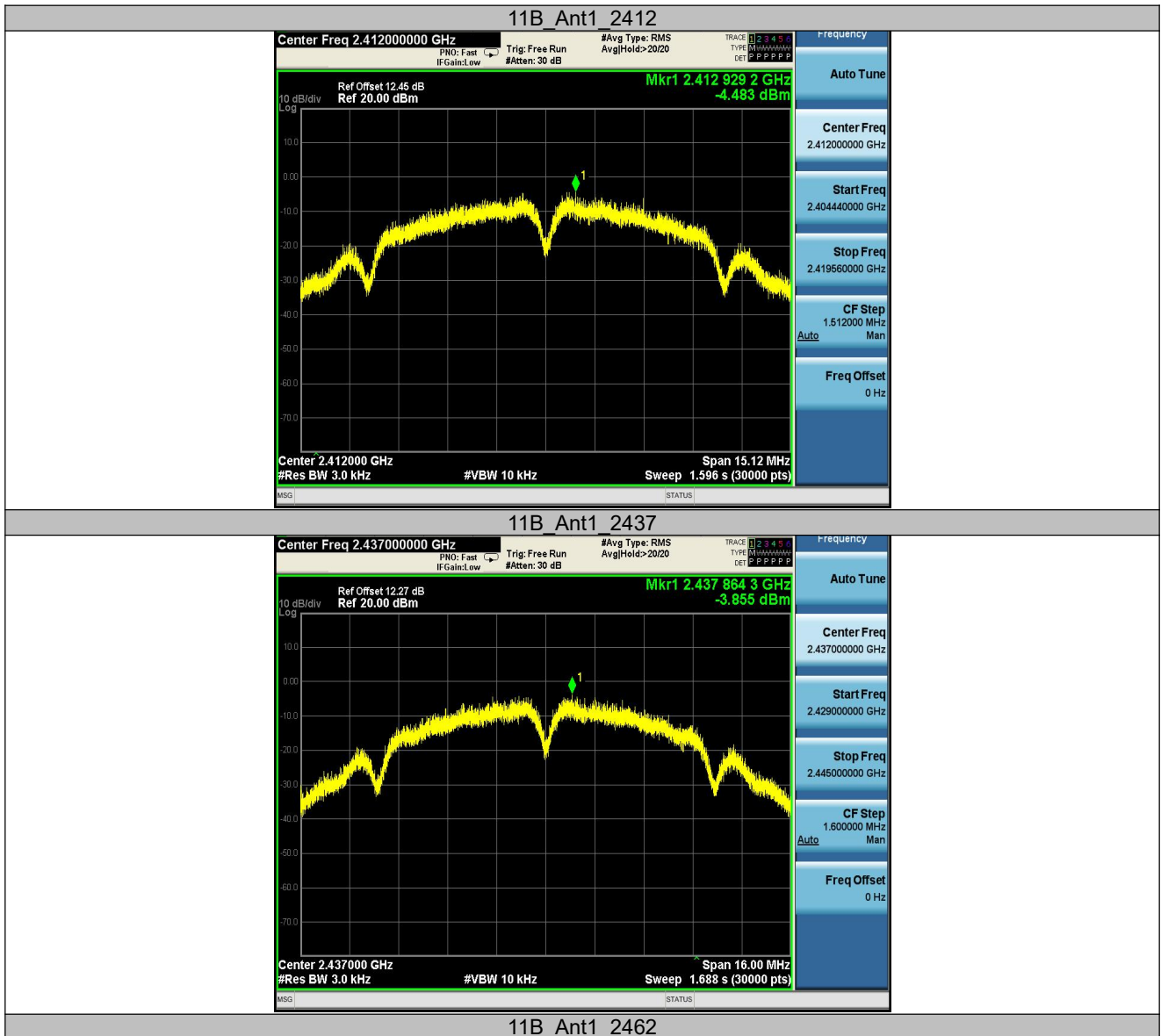
- Test Requirement : FCC CFR47 Part 15 Section 15.247
- Test Method : ANSI C63.10:2013
- Test Limit : Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

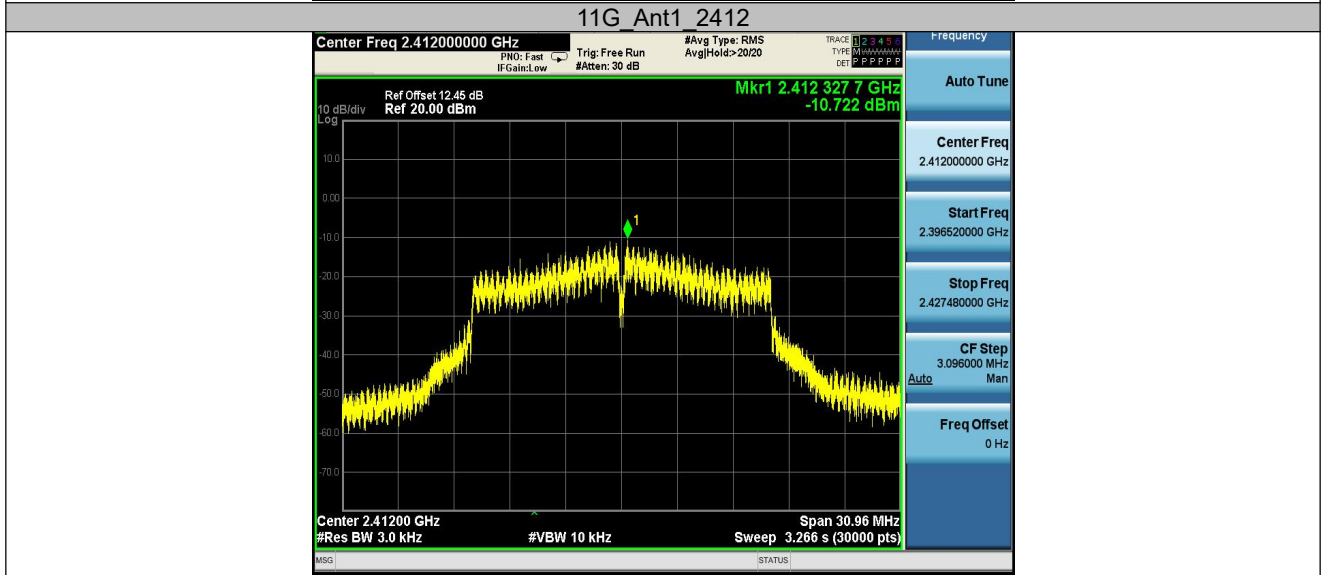
11.1 Test Procedure

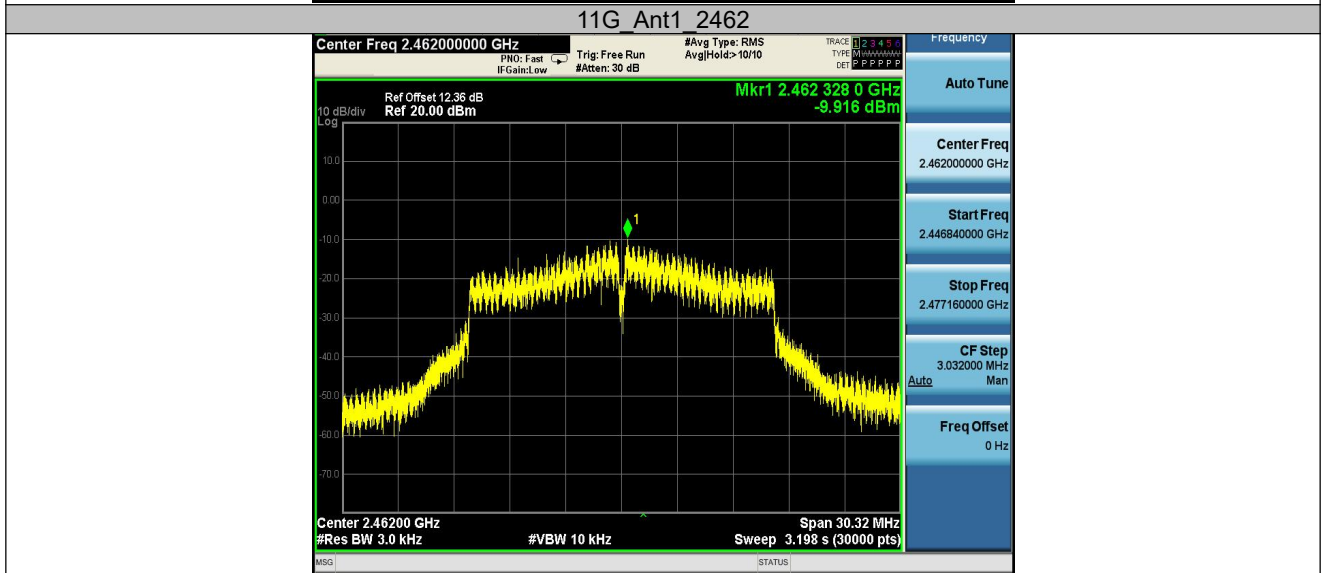
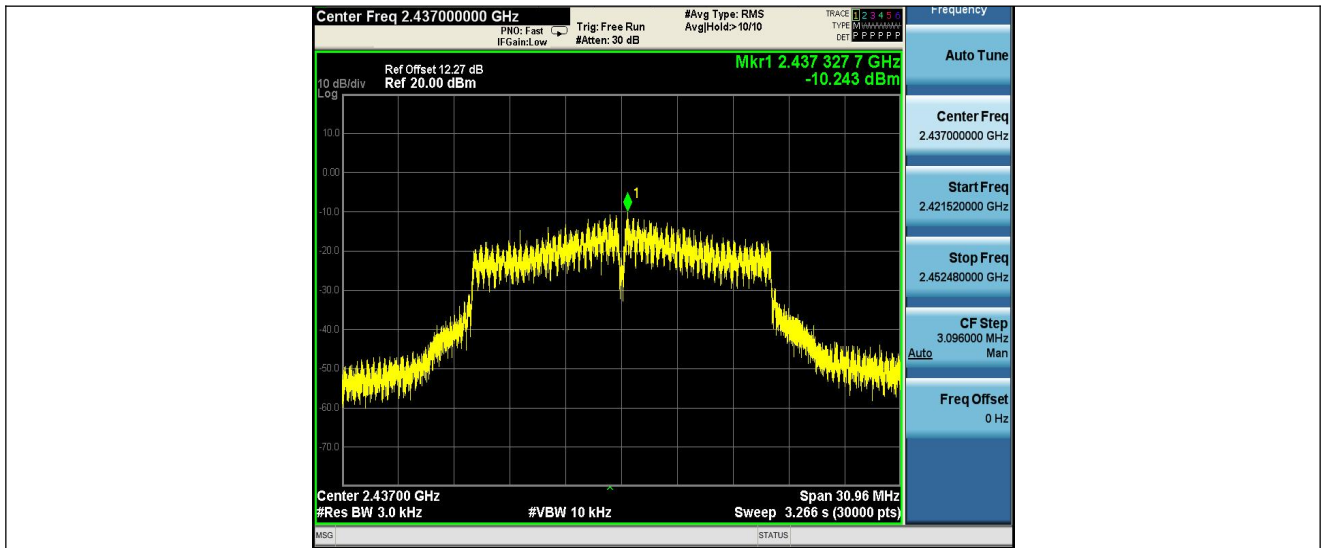
1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span = 1.5 times the DTS bandwidth
RBW = 3KHz, VBW = 10KHz
Sweep time = auto couple
Detector = peak
Trace mode =max hold
3. Place the radio in 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.

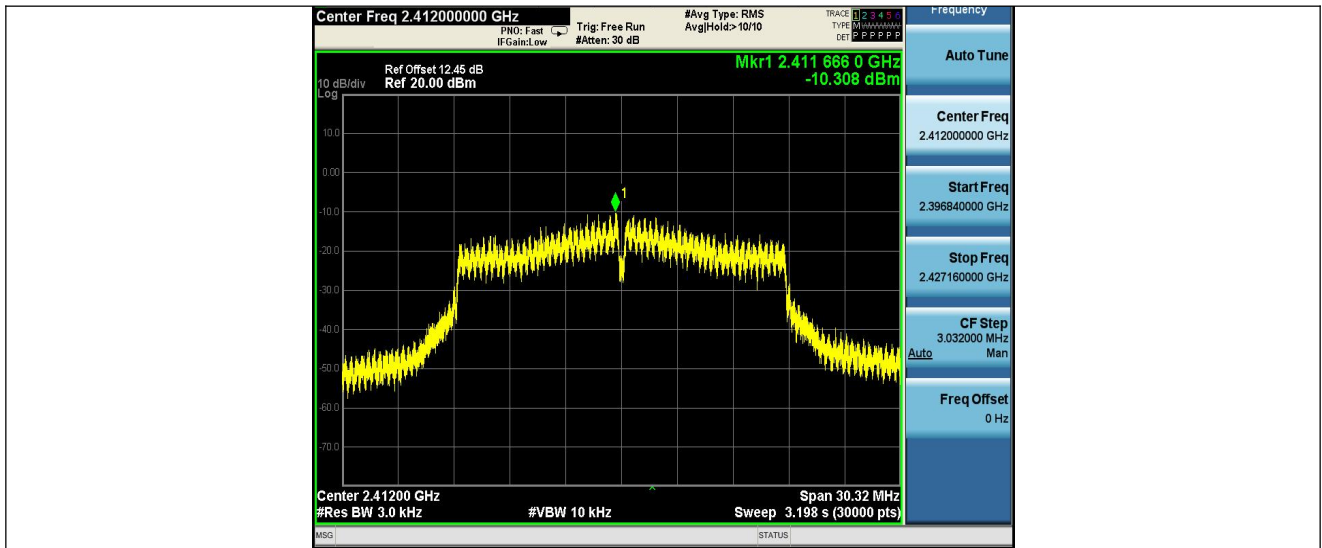
11.2 Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.48	≤8.00	PASS
		2437	-3.86	≤8.00	PASS
		2462	-3.61	≤8.00	PASS
11G	Ant1	2412	-10.72	≤8.00	PASS
		2437	-10.24	≤8.00	PASS
		2462	-9.92	≤8.00	PASS
11N20SISO	Ant1	2412	-10.31	≤8.00	PASS
		2437	-10.56	≤8.00	PASS
		2462	-9.3	≤8.00	PASS





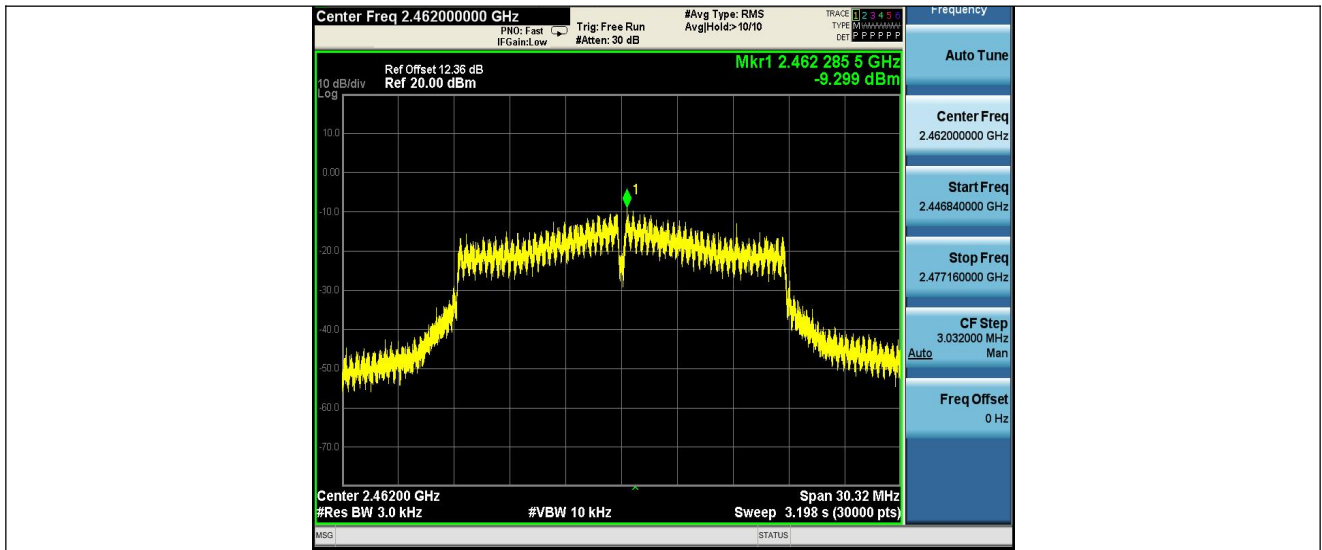




11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





12 Antenna Application

12.1 Antenna Requirement

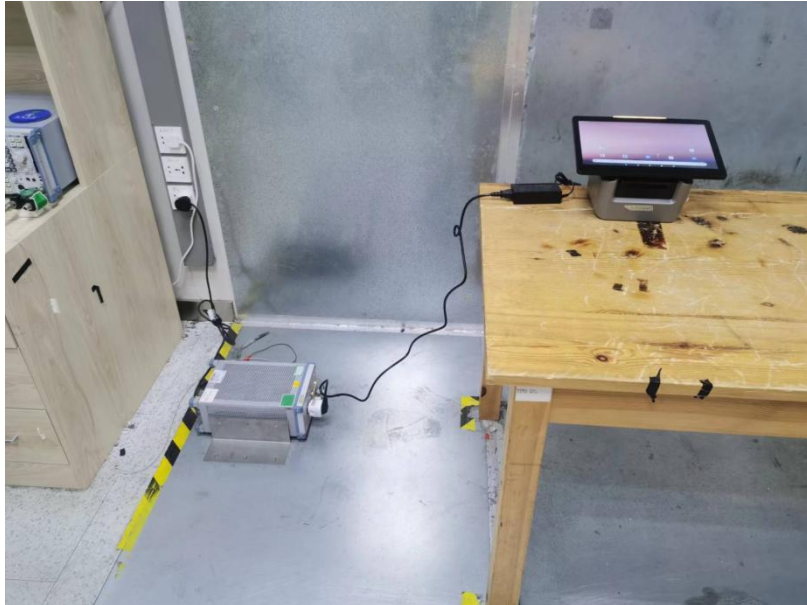
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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

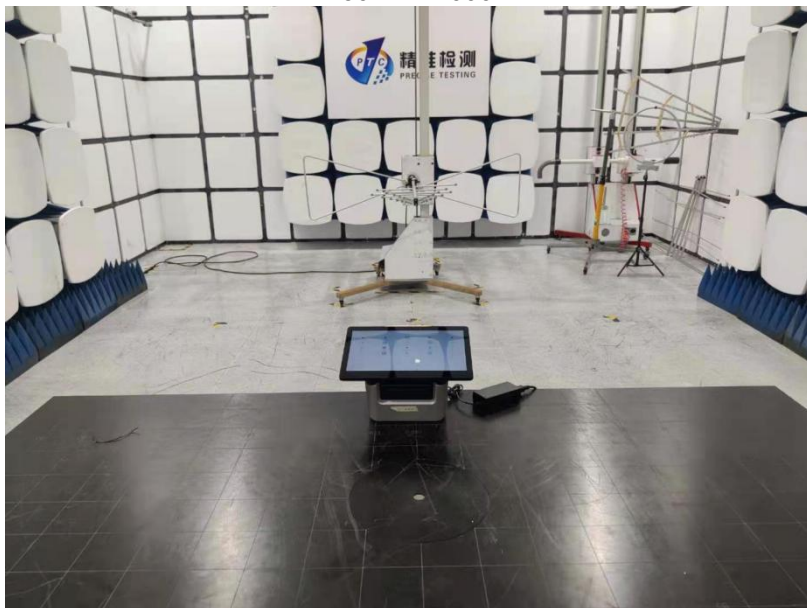
The EUT'S antenna, permanent attached antenna, is IFA antenna. The antenna's gain is 1.2 dBi and meets the requirement.

13 Test Setup

Conducted Emissions

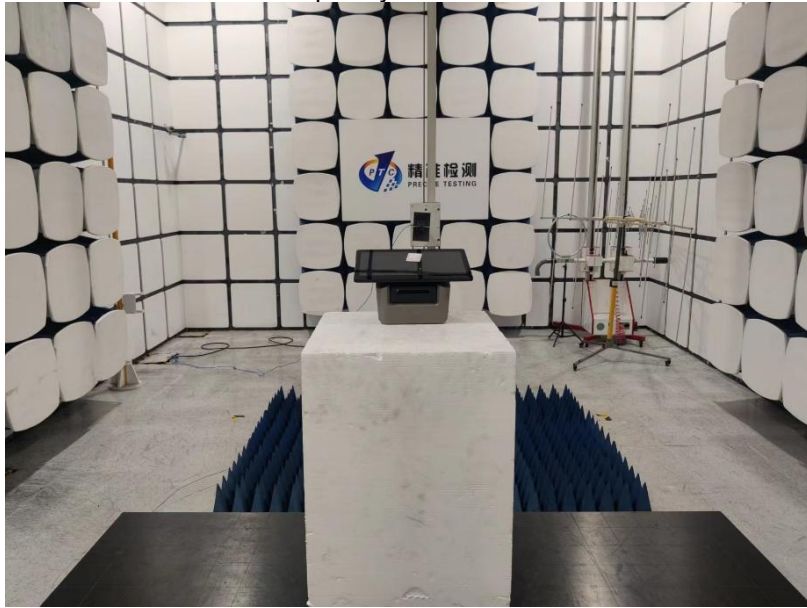


Radiated Spurious Emissions
From 30MHz-1000MHz





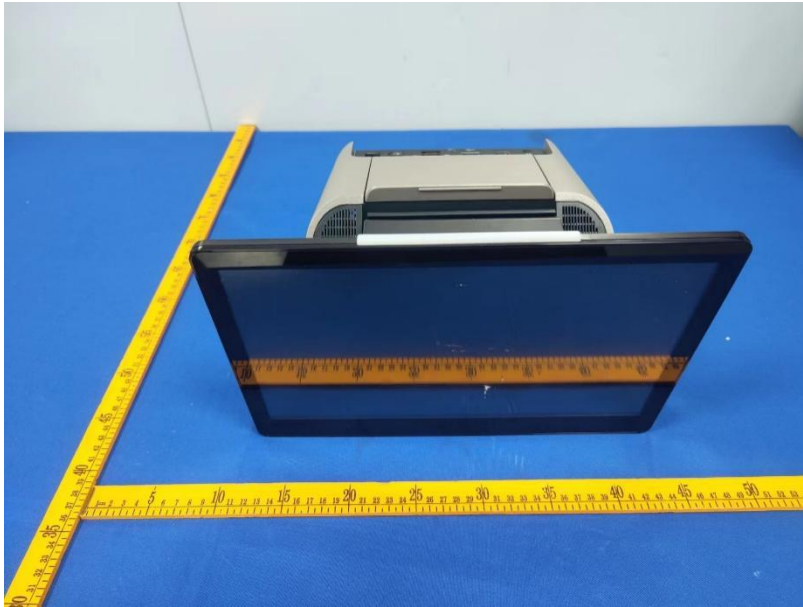
Test frequency from Above 1GHz



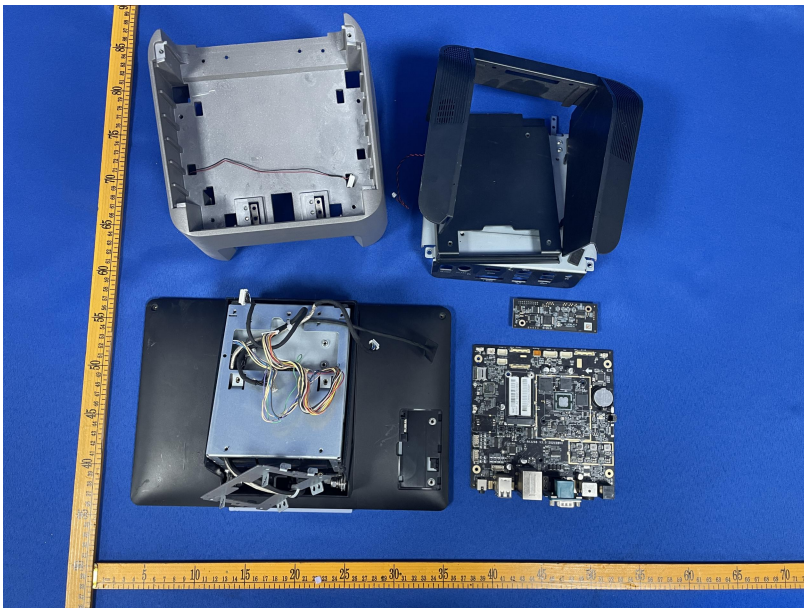


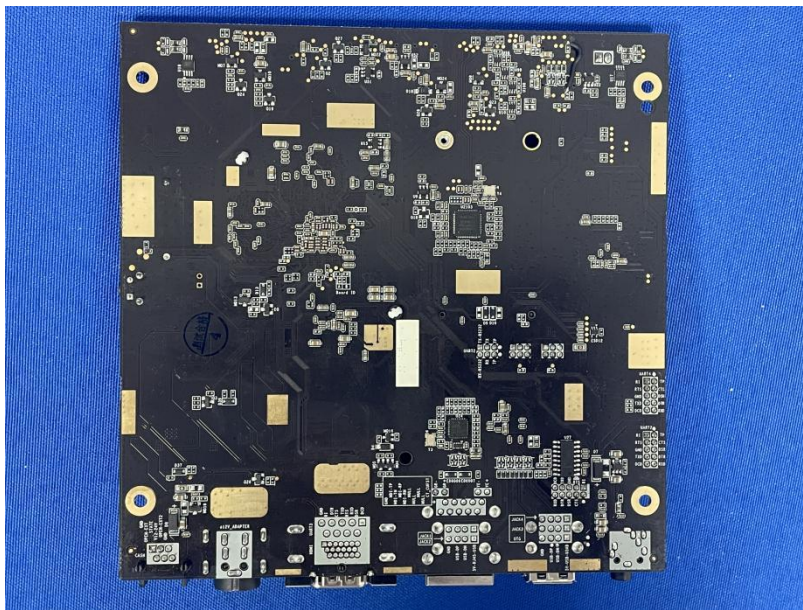
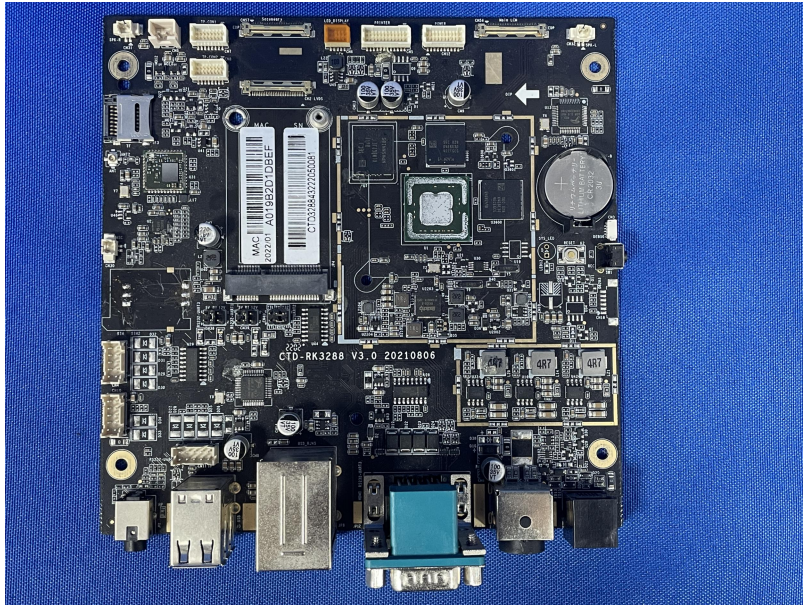
14 EUT PHOTOS













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