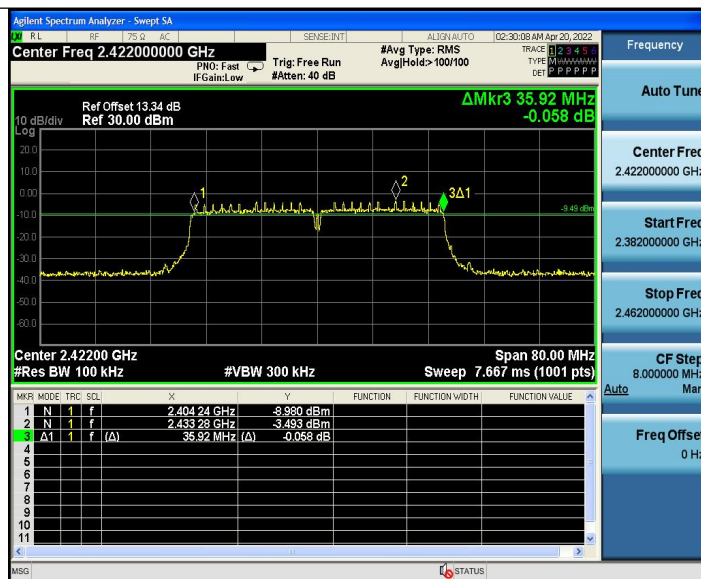
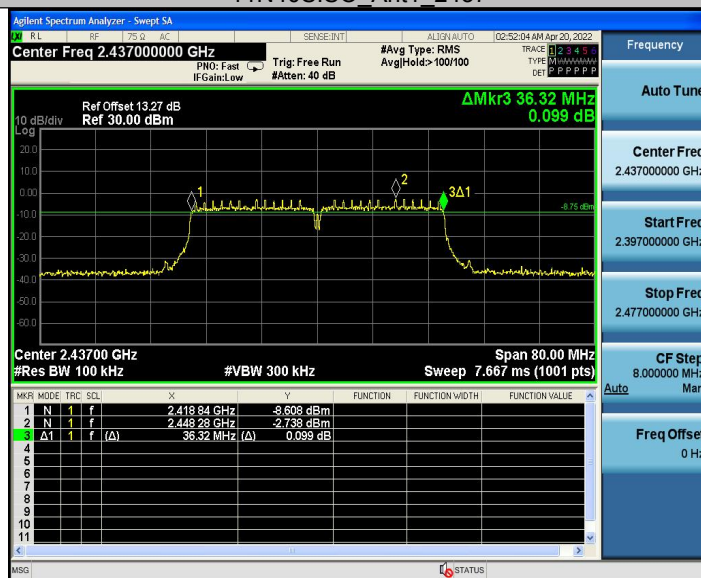




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





10 Maximum conducted 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 8.3.2.2.
2. The RF output of EUT Connect the antenna port(s) to the spectrum analyzer input. 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. Test set-up(block diagram of configuration):



10.2 Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	12.02	≤30.00	PASS
		2437	13.96	≤30.00	PASS
		2462	14.12	≤30.00	PASS
11G	Ant1	2412	11.26	≤30.00	PASS
		2437	11.45	≤30.00	PASS
		2462	11.78	≤30.00	PASS
11N40SISO	Ant1	2422	10.17	≤30.00	PASS
		2437	10.93	≤30.00	PASS
		2452	11.76	≤30.00	PASS



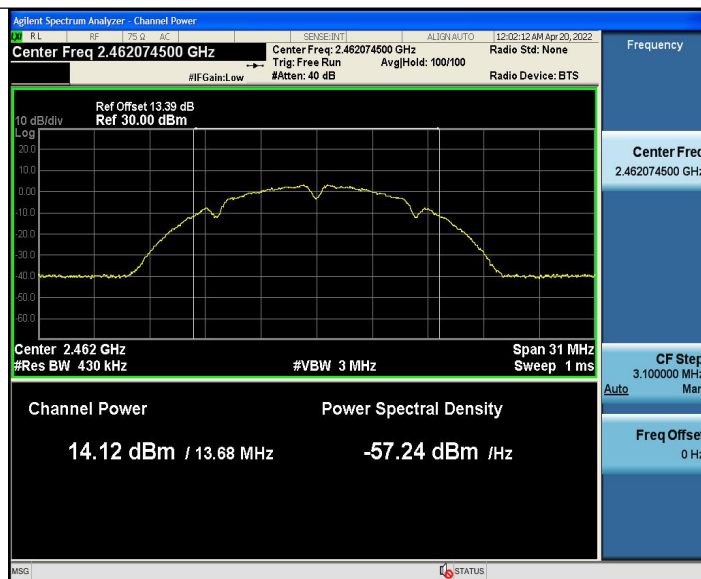
11B_Ant1_2412



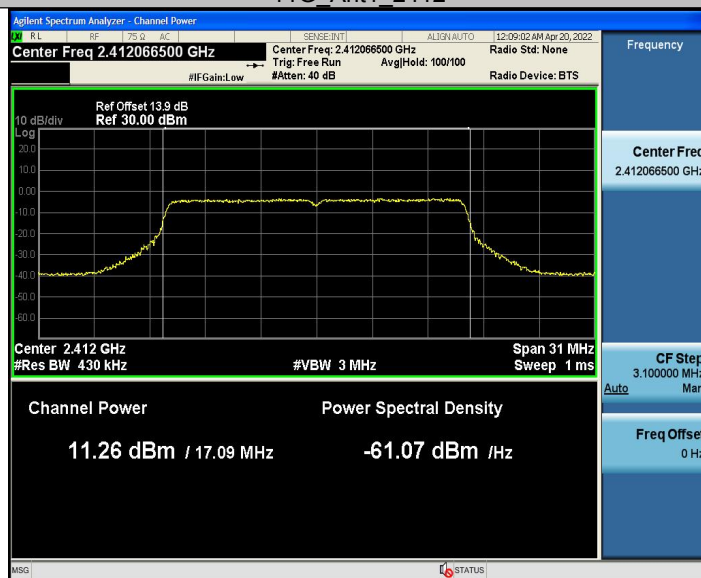
11B_Ant1_2437



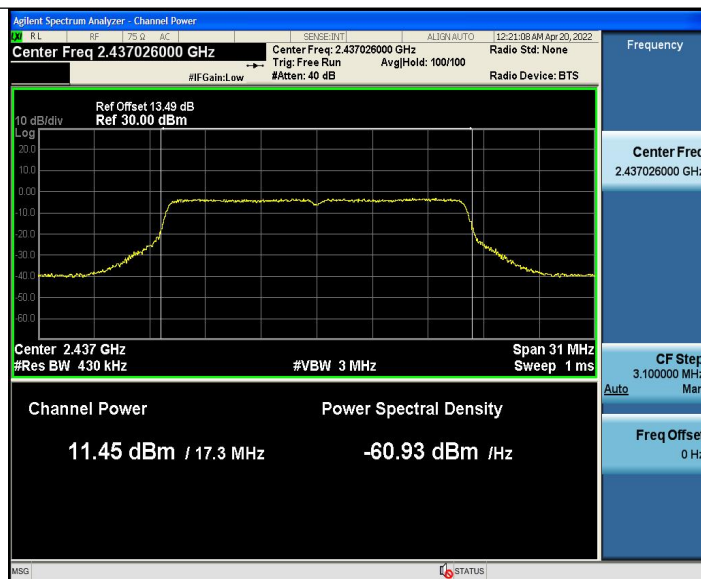
11B_Ant1_2462



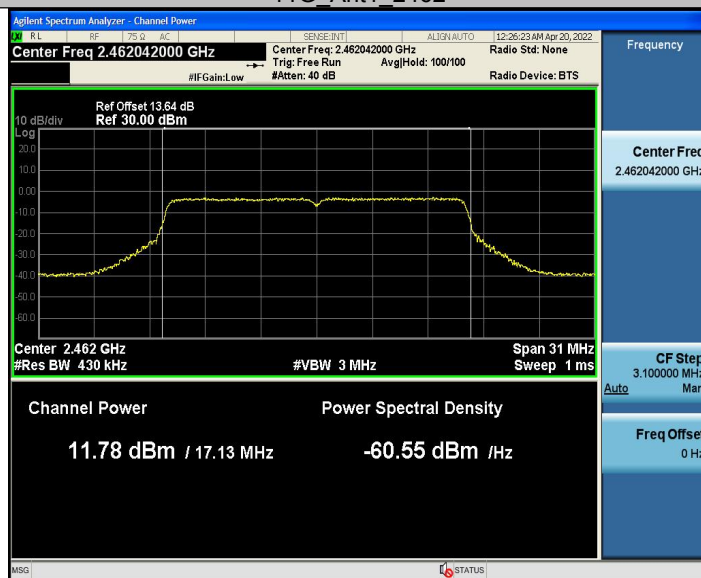
11G_Ant1_2412



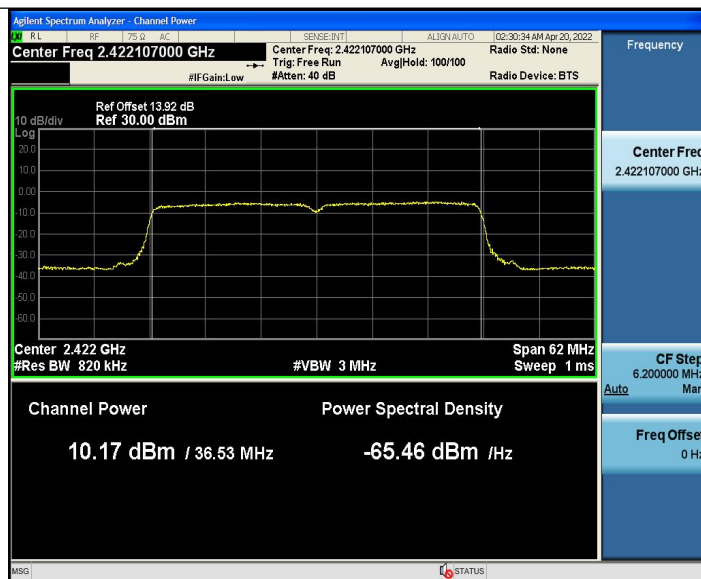
11G_Ant1_2437



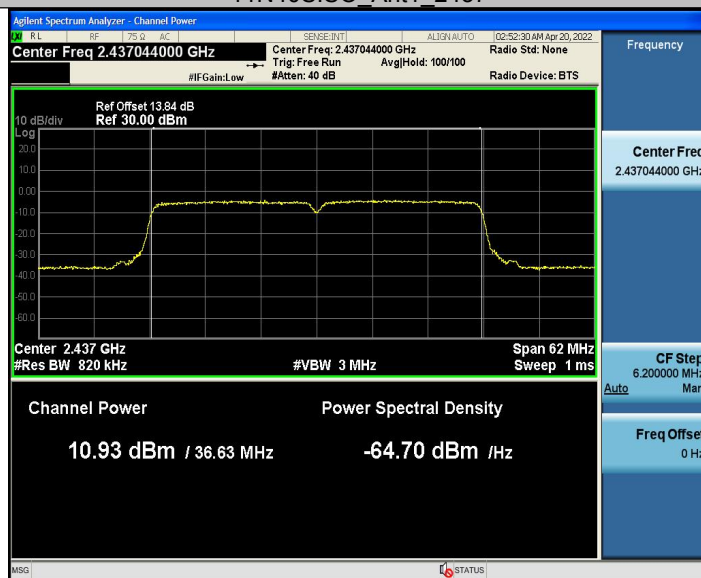
11G_Ant1_2462



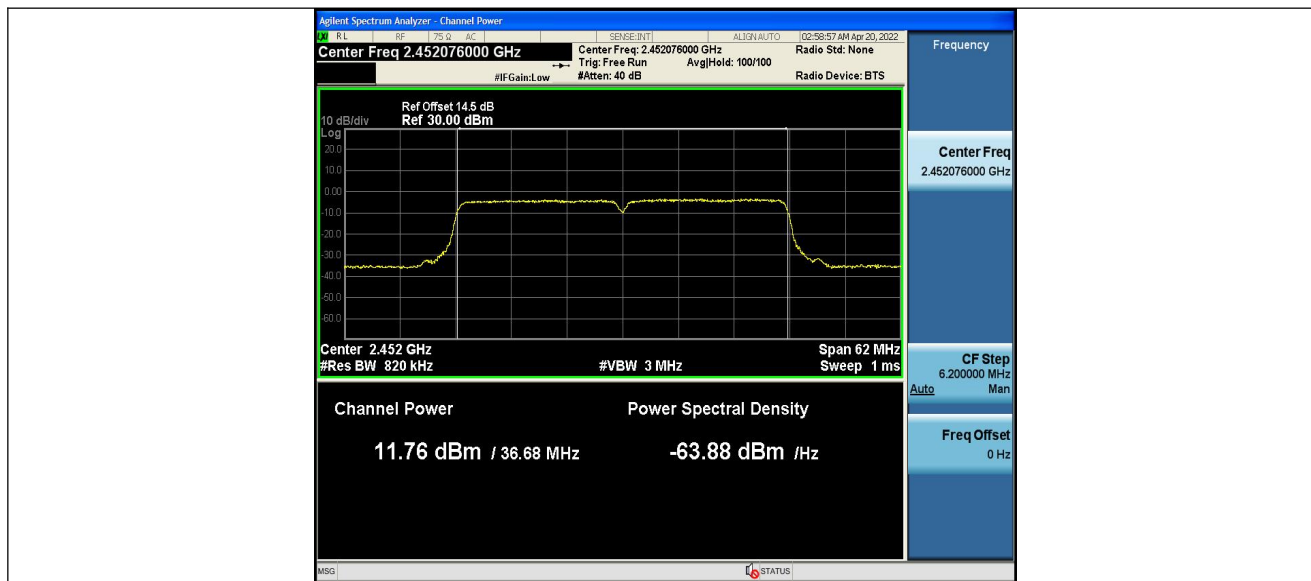
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



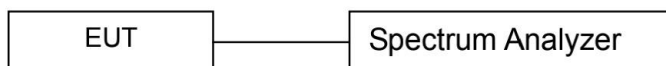


11 Power Spectral density

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 = power averaging (rms) or sample detector (when rms not available)
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. Test set-up(block diagram of configuration):



11.2 Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.24	≤8.00	PASS
		2437	-12.64	≤8.00	PASS
		2462	-13.24	≤8.00	PASS
11G	Ant1	2412	-13.62	≤8.00	PASS
		2437	-12.66	≤8.00	PASS
		2462	-13.27	≤8.00	PASS
11N40SISO	Ant1	2422	-12.86	≤8.00	PASS
		2437	-16.71	≤8.00	PASS
		2452	-16.3	≤8.00	PASS



11B_Ant1_2412



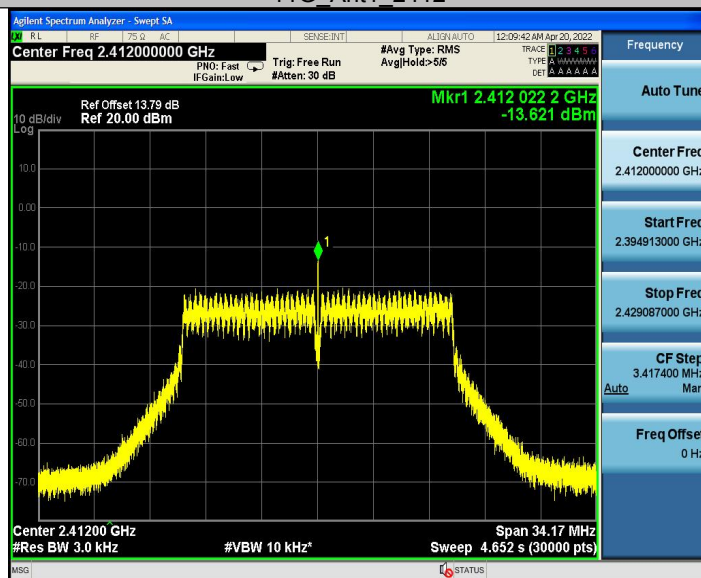
11B_Ant1_2437



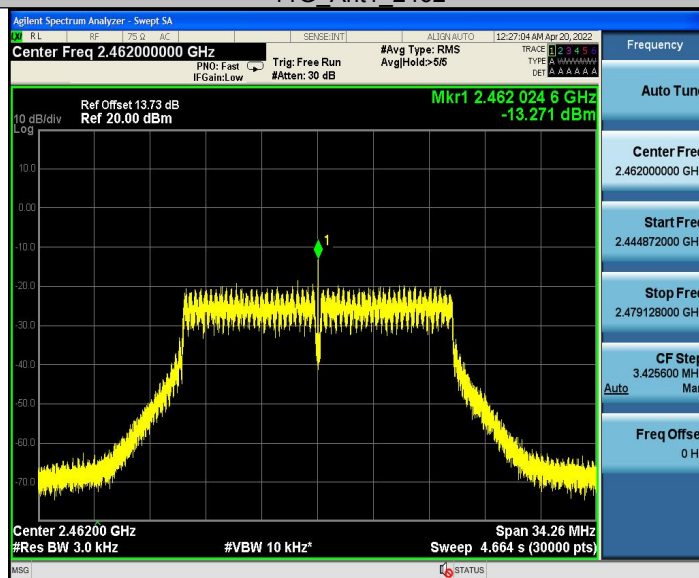
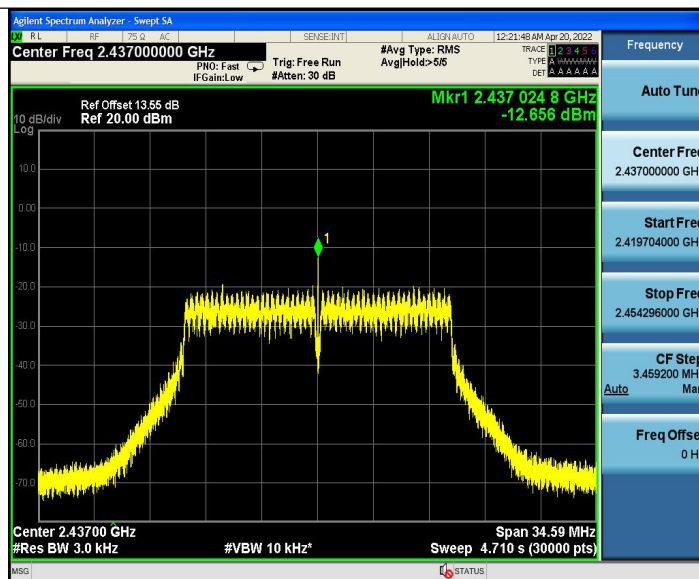
11B_Ant1_2462

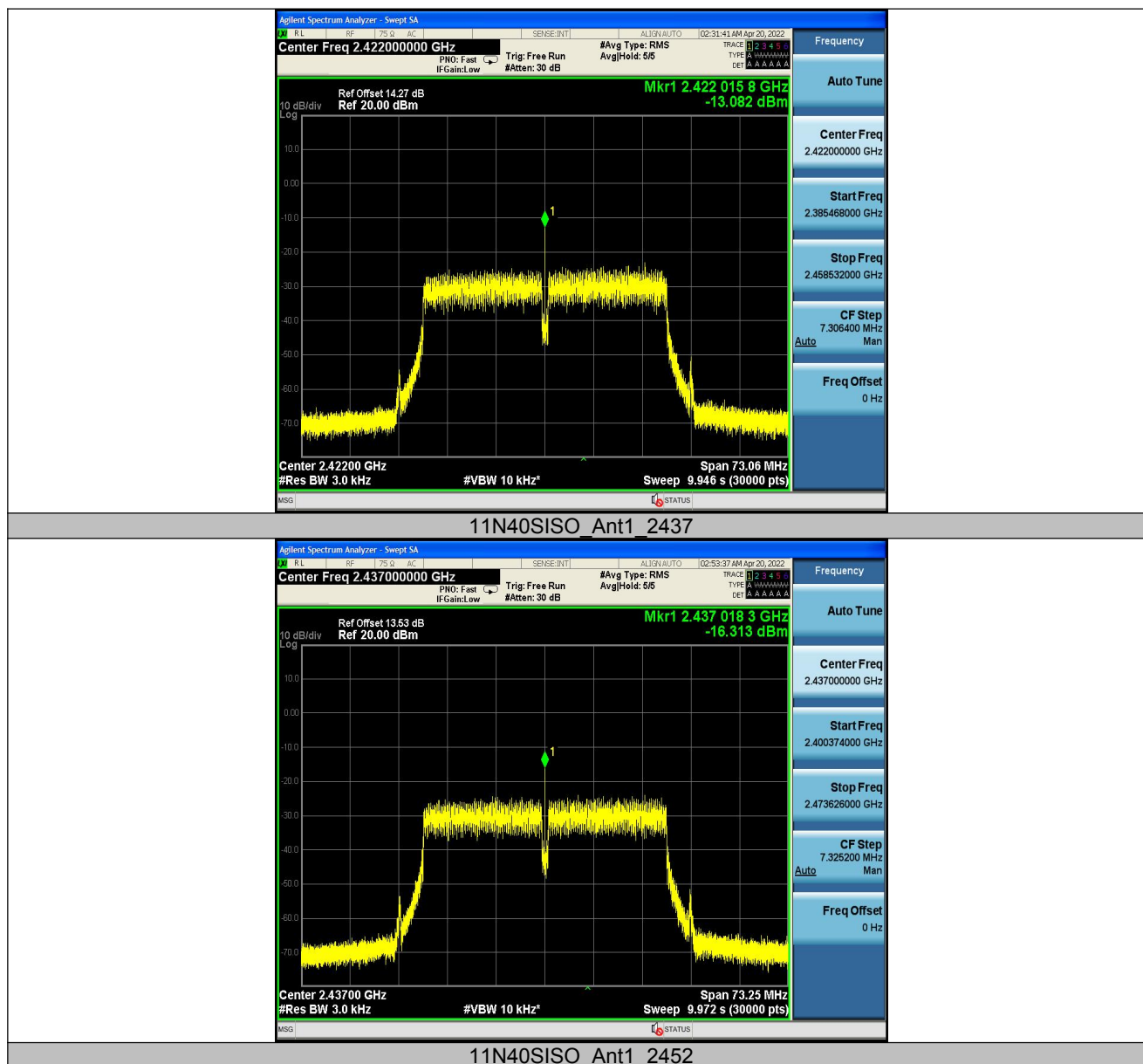


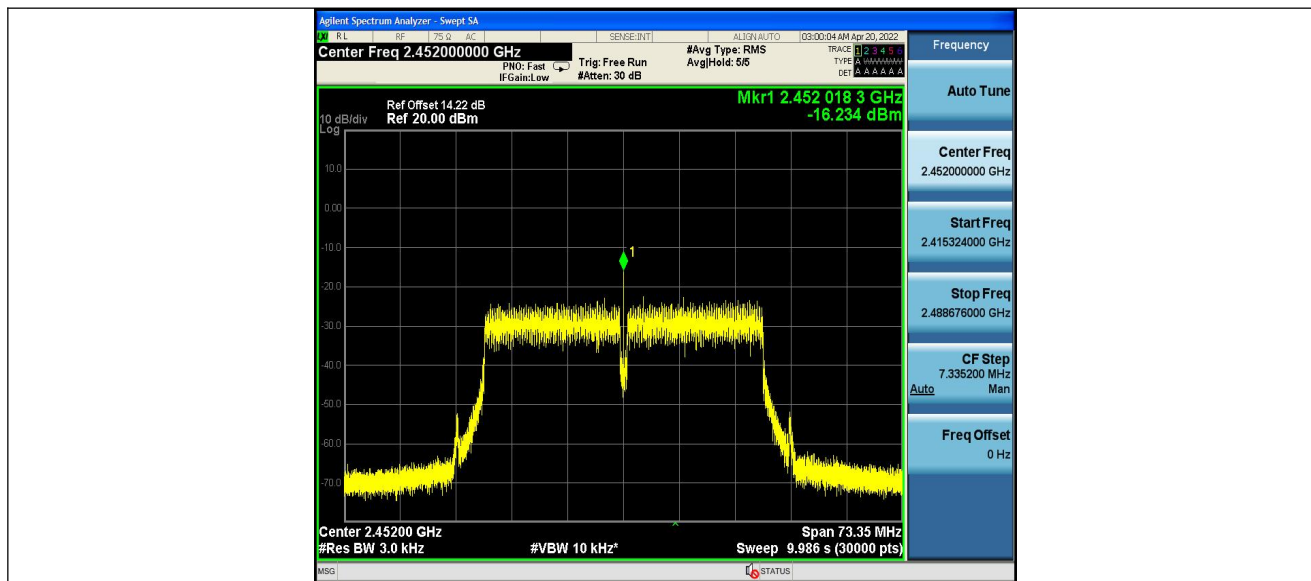
11G_Ant1_2412



11G_Ant1_2437









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

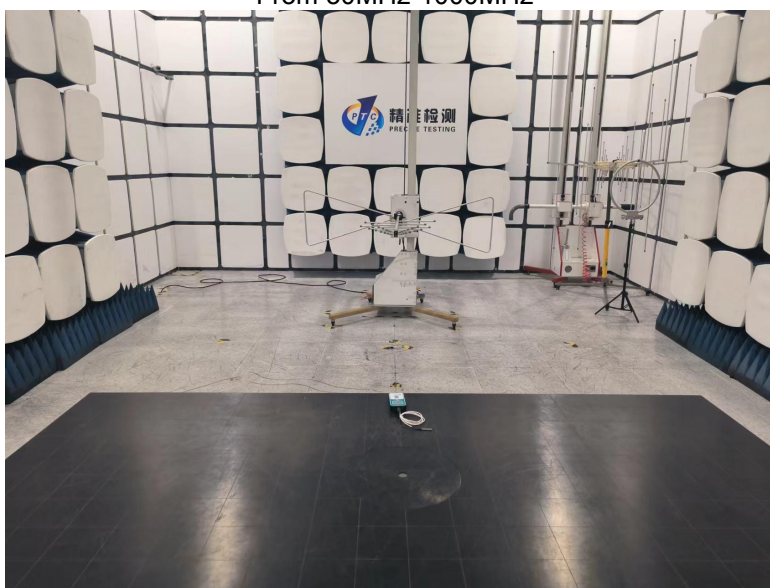
The EUT'S antenna, permanent attached antenna, is PCB Antenna. The antenna's gain is 4.54 dBi and meets the requirement.

13 Test Setup

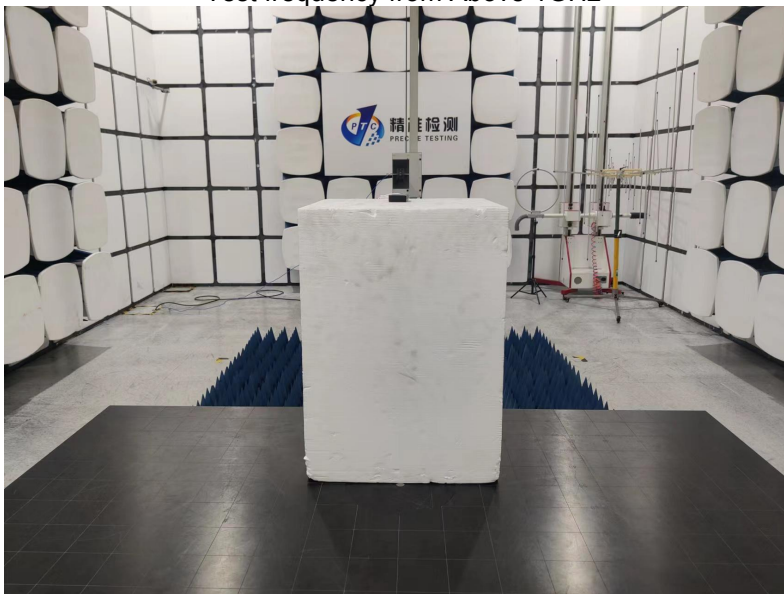
Conducted Emissions



Radiated Spurious Emissions
From 30MHz-1000MHz



Test frequency from Above 1GHz





Report No.: PTC22062400701E-FC01

14 EUT PHOTOS

Please reference "EUT Photos".

*****END*****