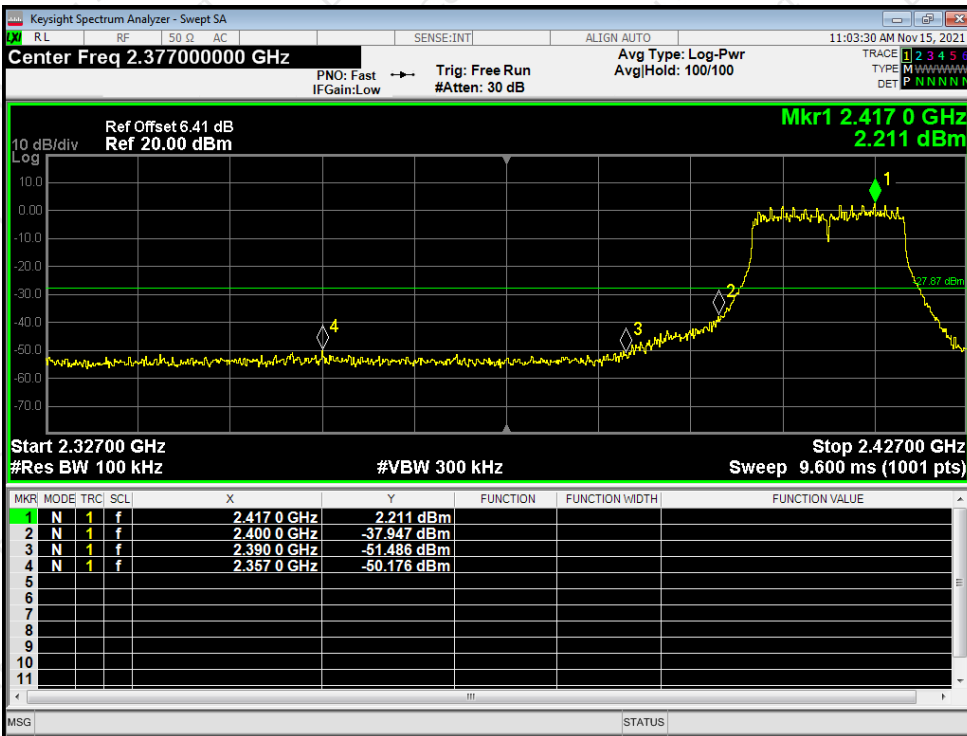
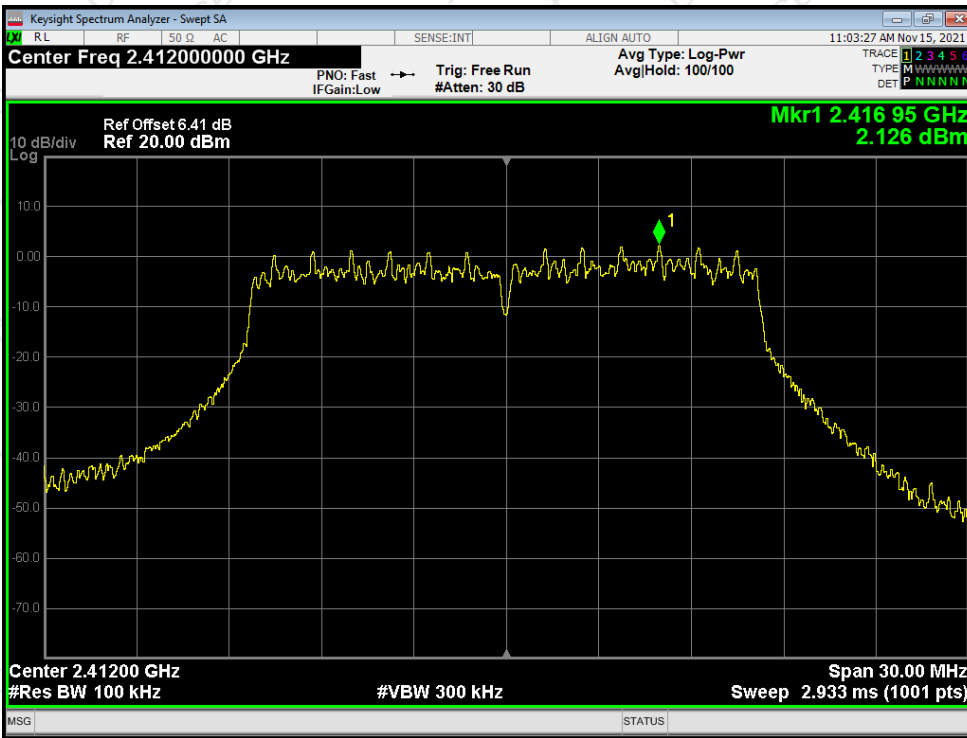
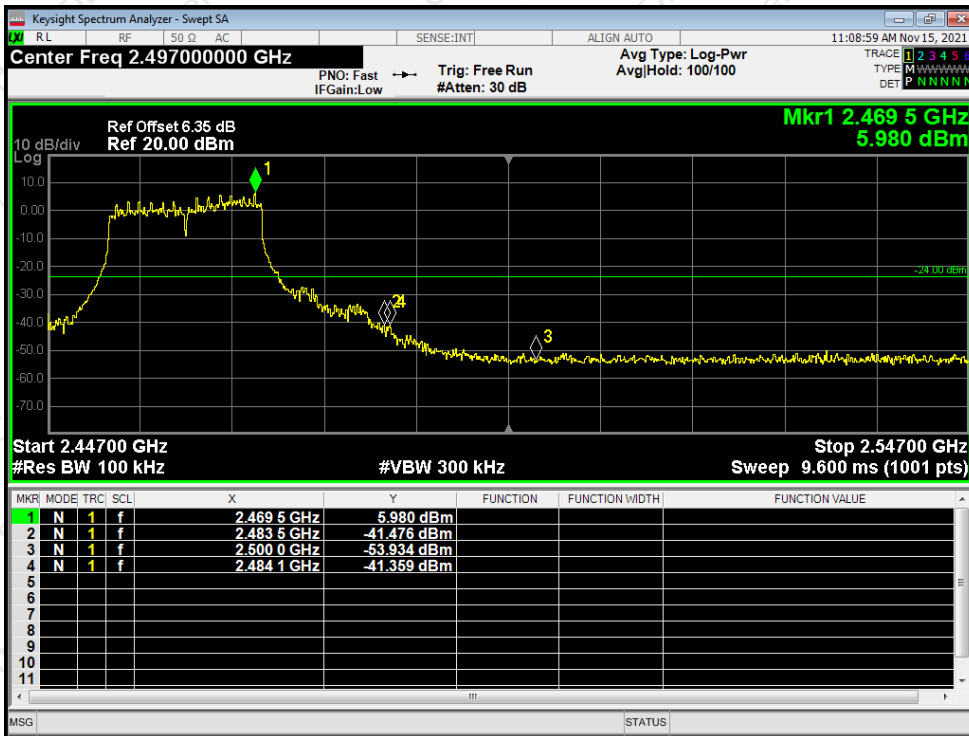
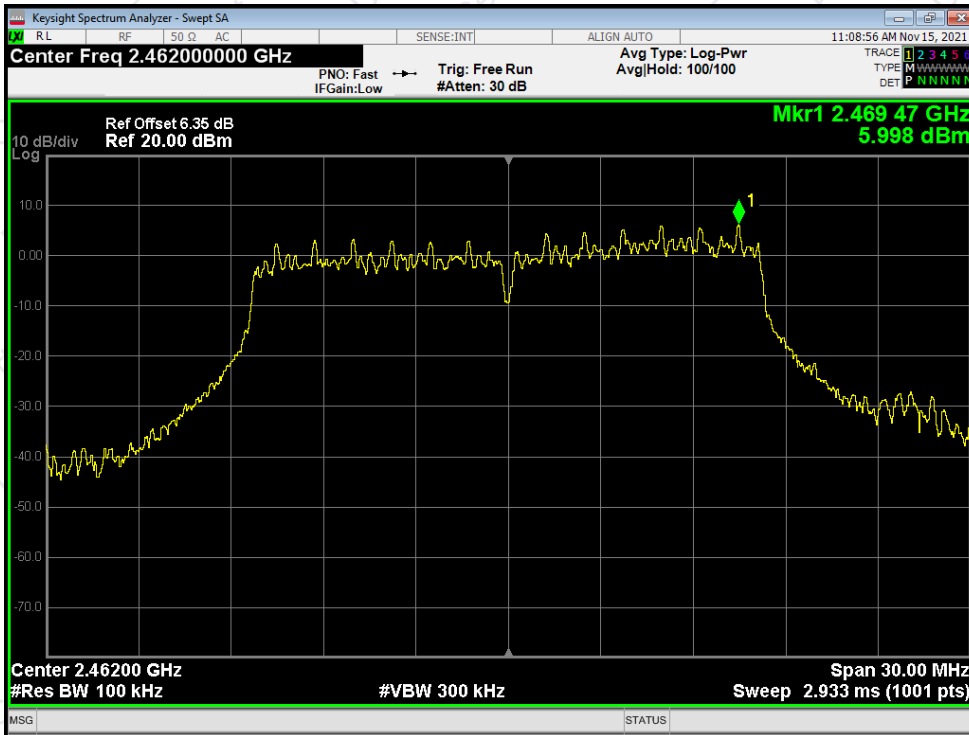




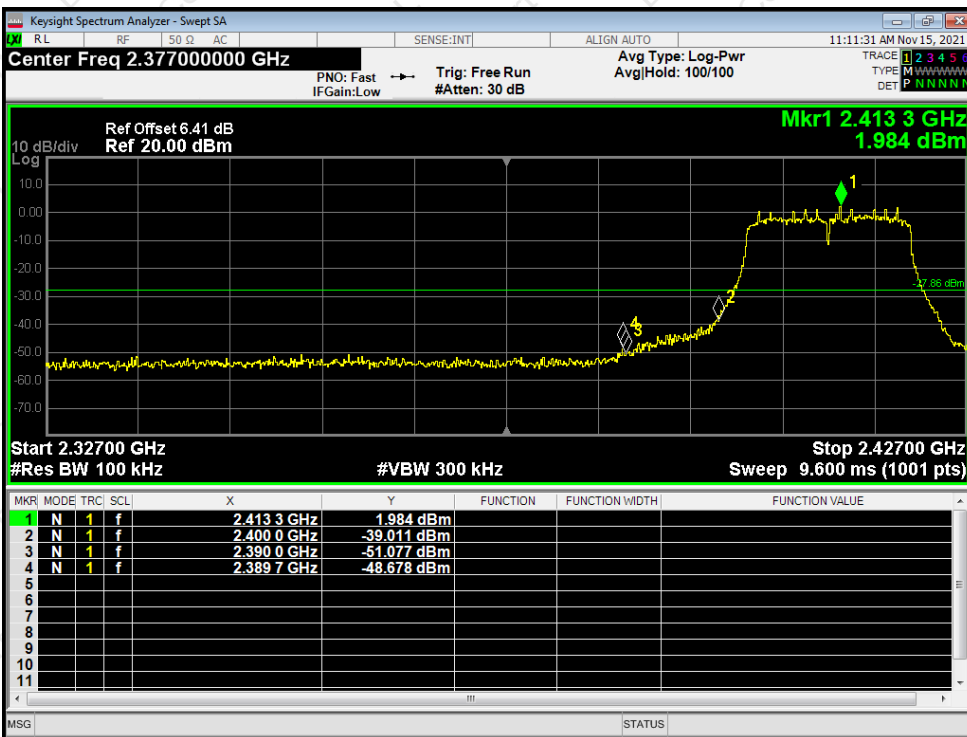
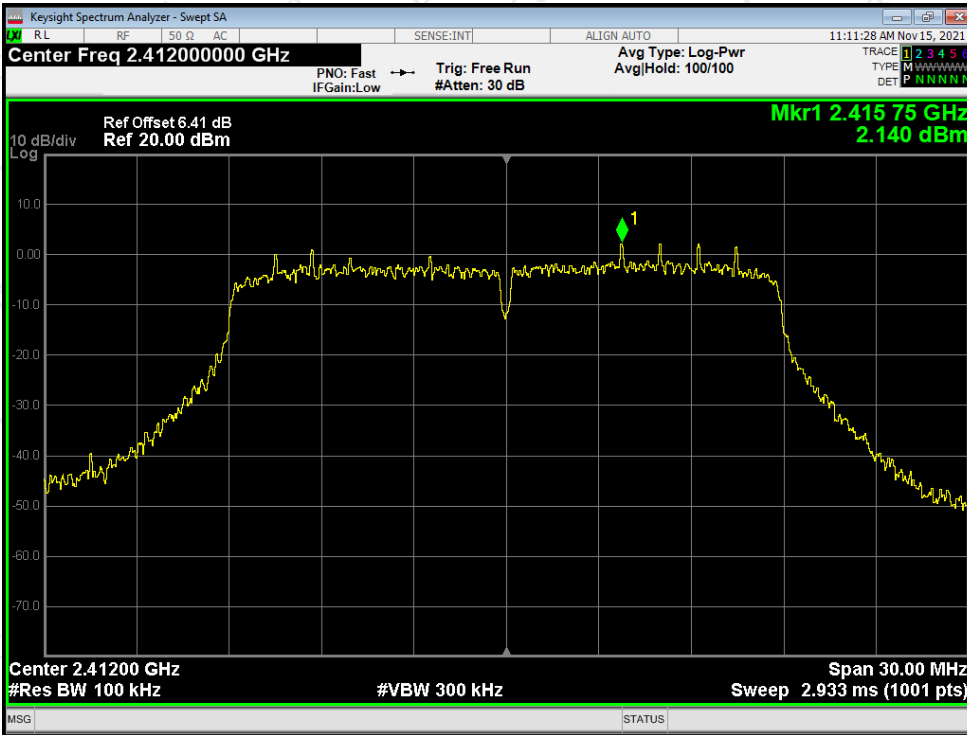
802.11g

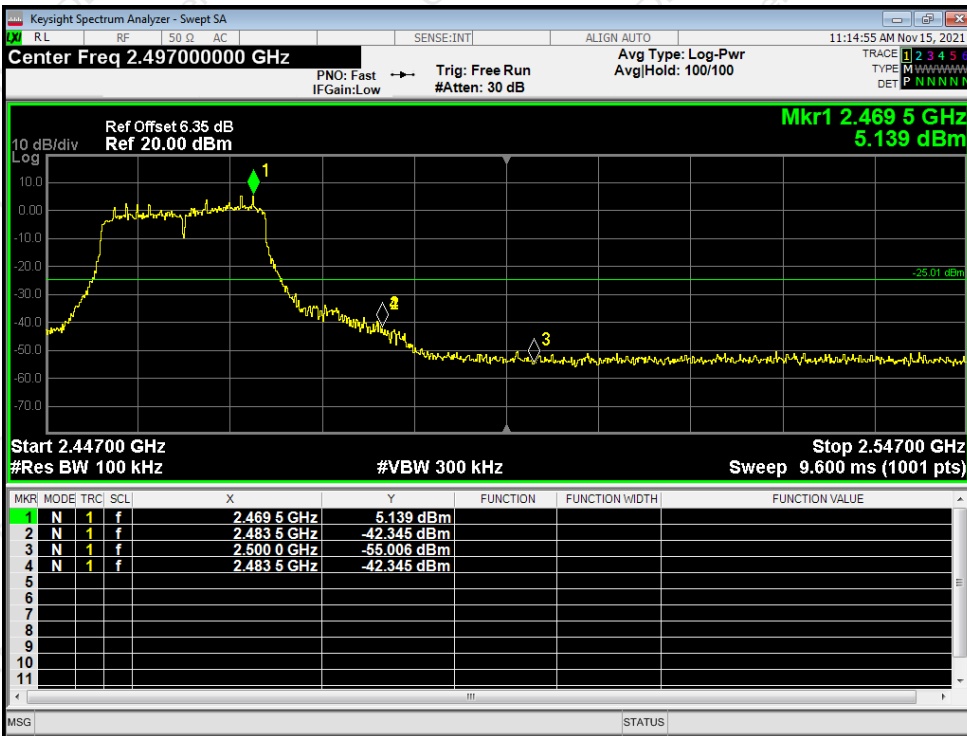
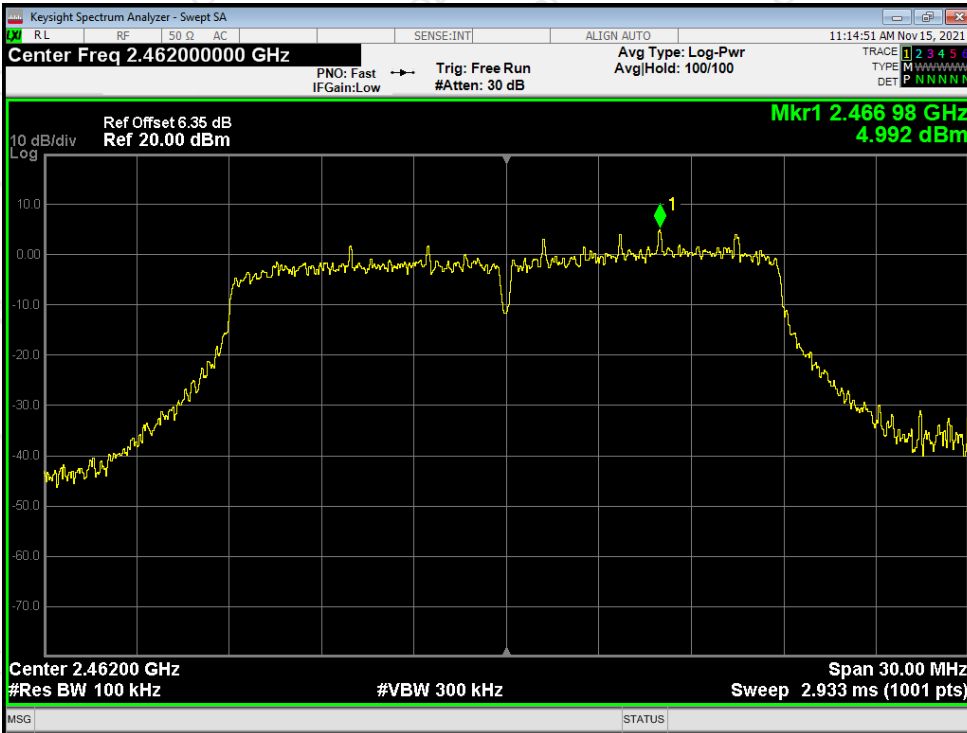






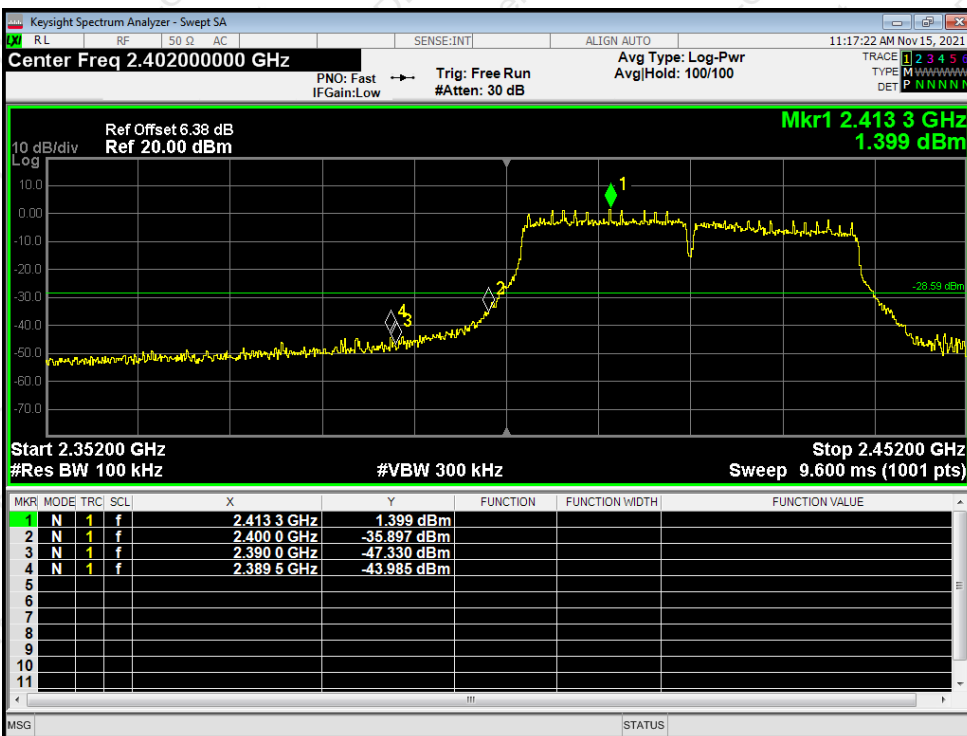
802.11n HT20

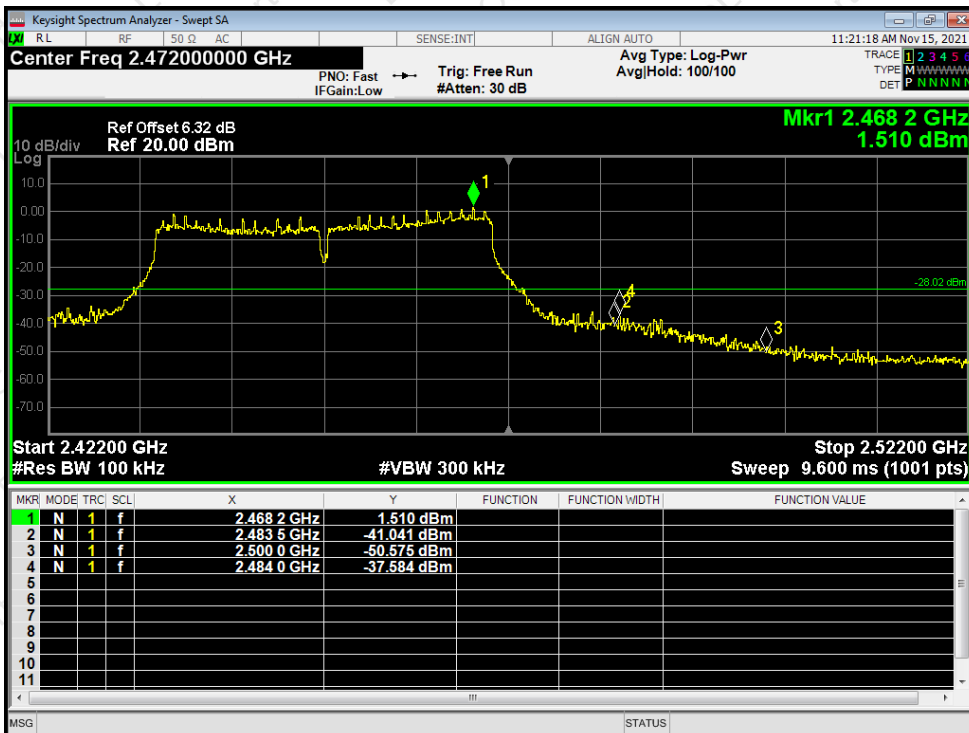
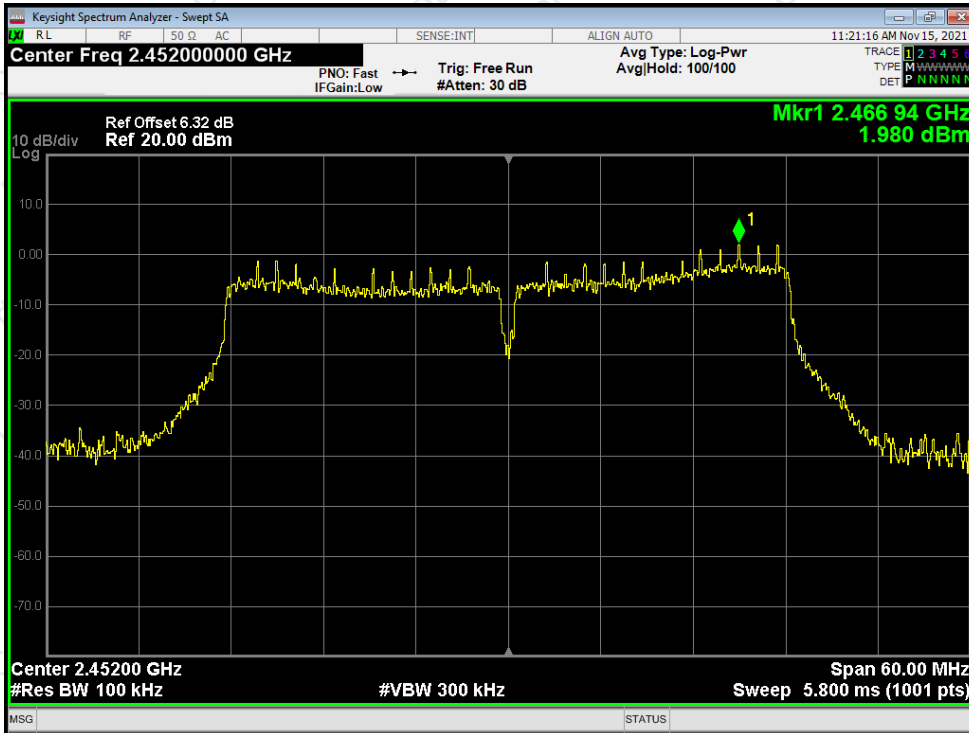






802.11n HT40







4. AVERAGE OUTPUT POWER

4.1 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

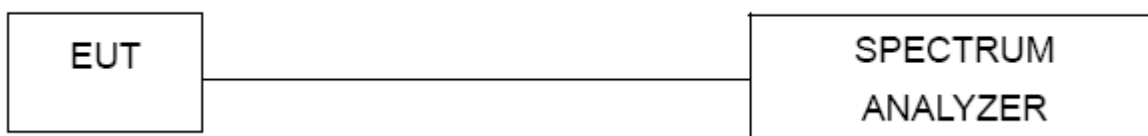
4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW > the 20 dB bandwidth of the emission being measured
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



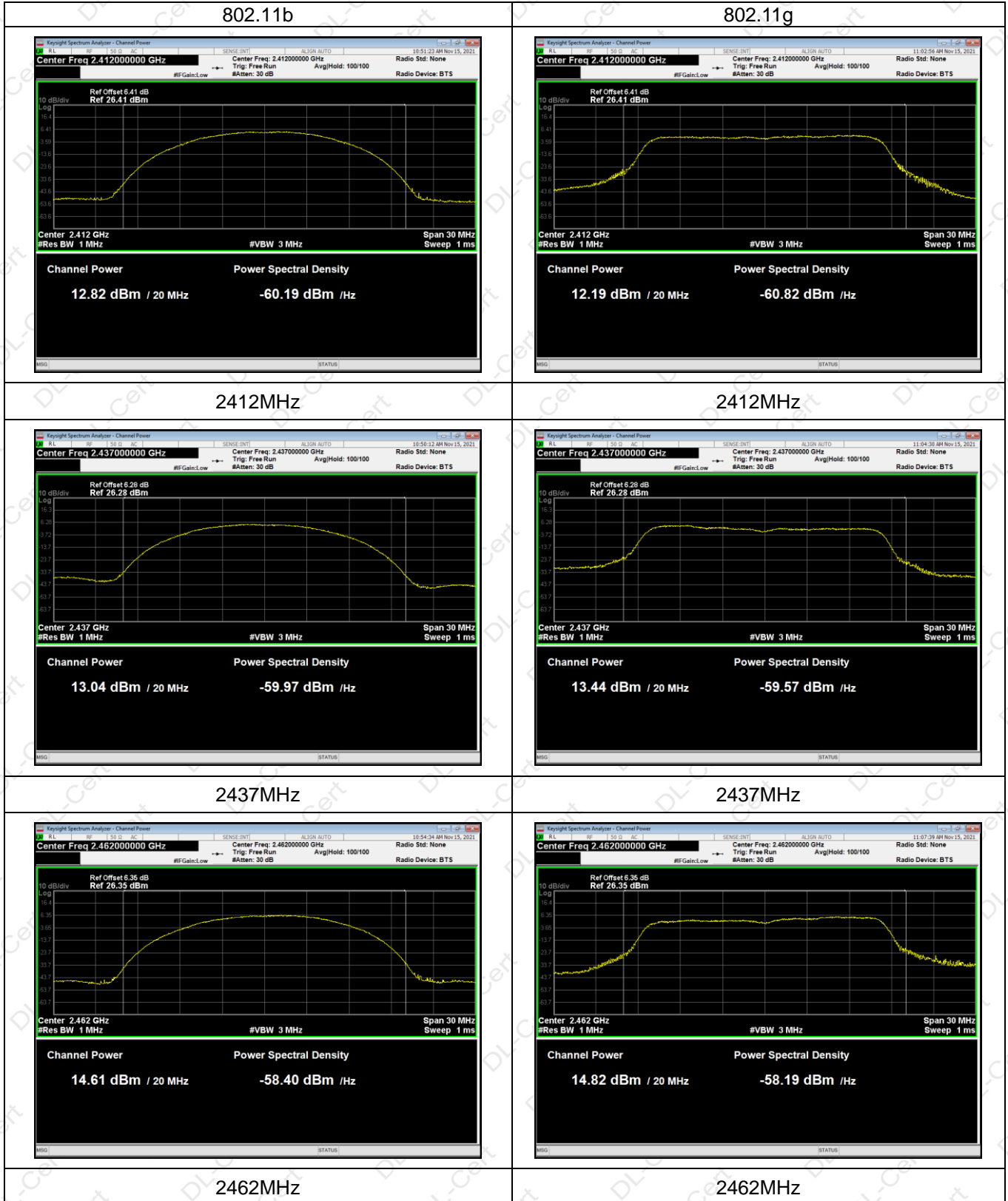
4.1.4 EUT OPERATION CONDITIONS

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.

**4.1.5 TEST RESULTS**

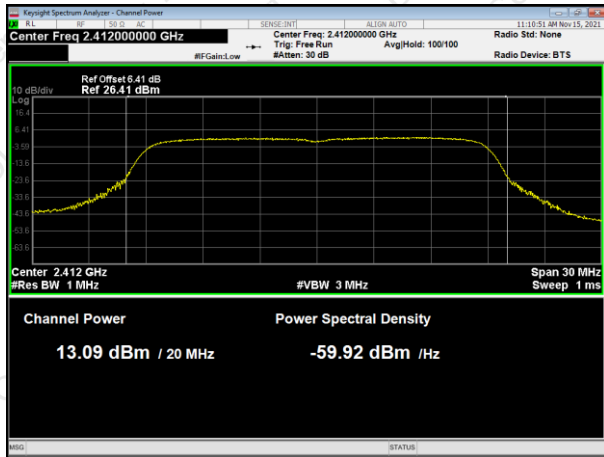
Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V

Mode	Test Channel	Average Output Power (dBm)	LIMIT (dBm)
802.11b	Low	12.82	30.00
	Moddle	13.04	30.00
	High	14.61	30.00
802.11g	Low	12.19	30.00
	Moddle	13.44	30.00
	High	14.82	30.00
802.11n HT20	Low	13.09	30.00
	Moddle	14.90	30.00
	High	14.80	30.00
802.11n HT40	Low	14.28	30.00
	Moddle	15.17	30.00
	High	13.36	30.00

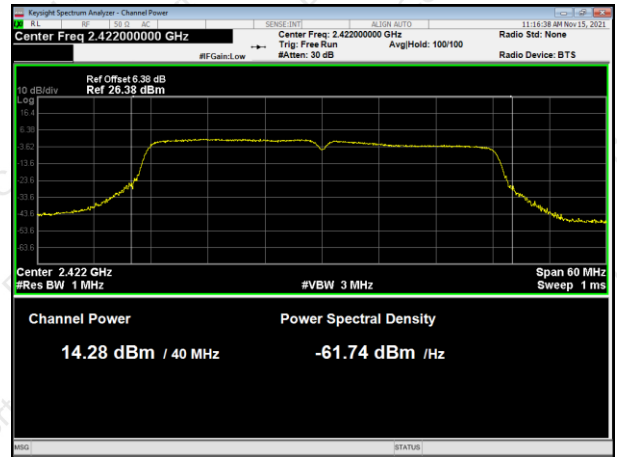




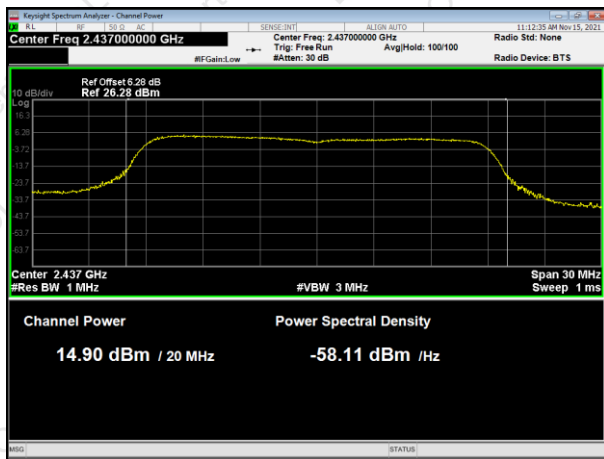
802.11n HT20



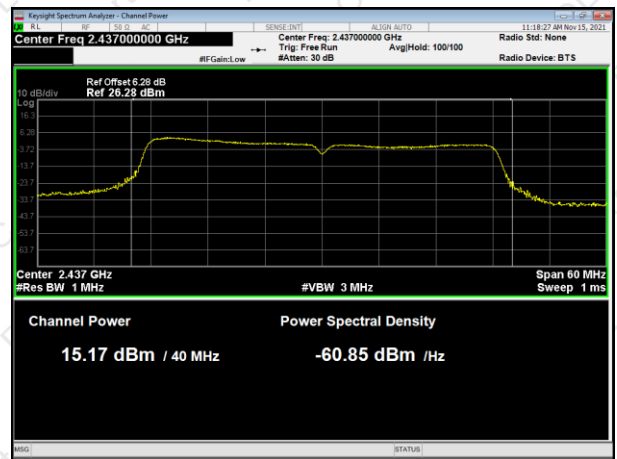
802.11n HT40



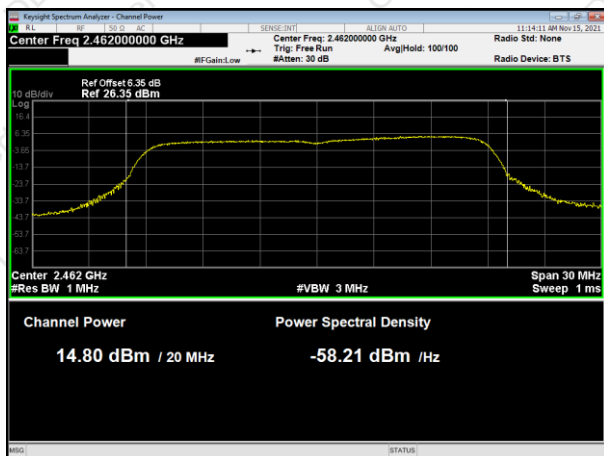
2412MHz



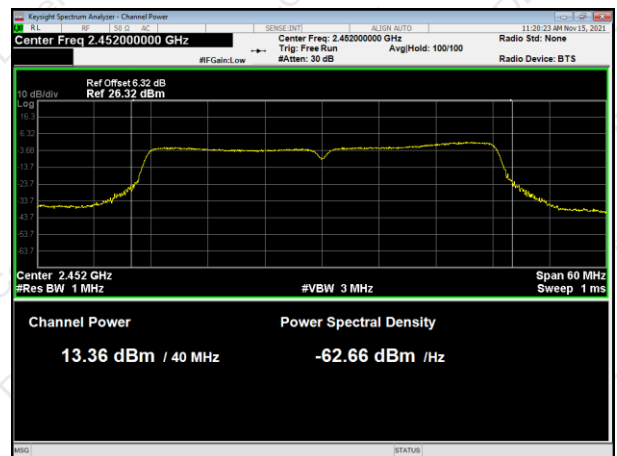
2422MHz



2437MHz



2437MHz



2462MHz

2452MHz



5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW ≥ 3kHz
VB	VBW ≥ 3RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

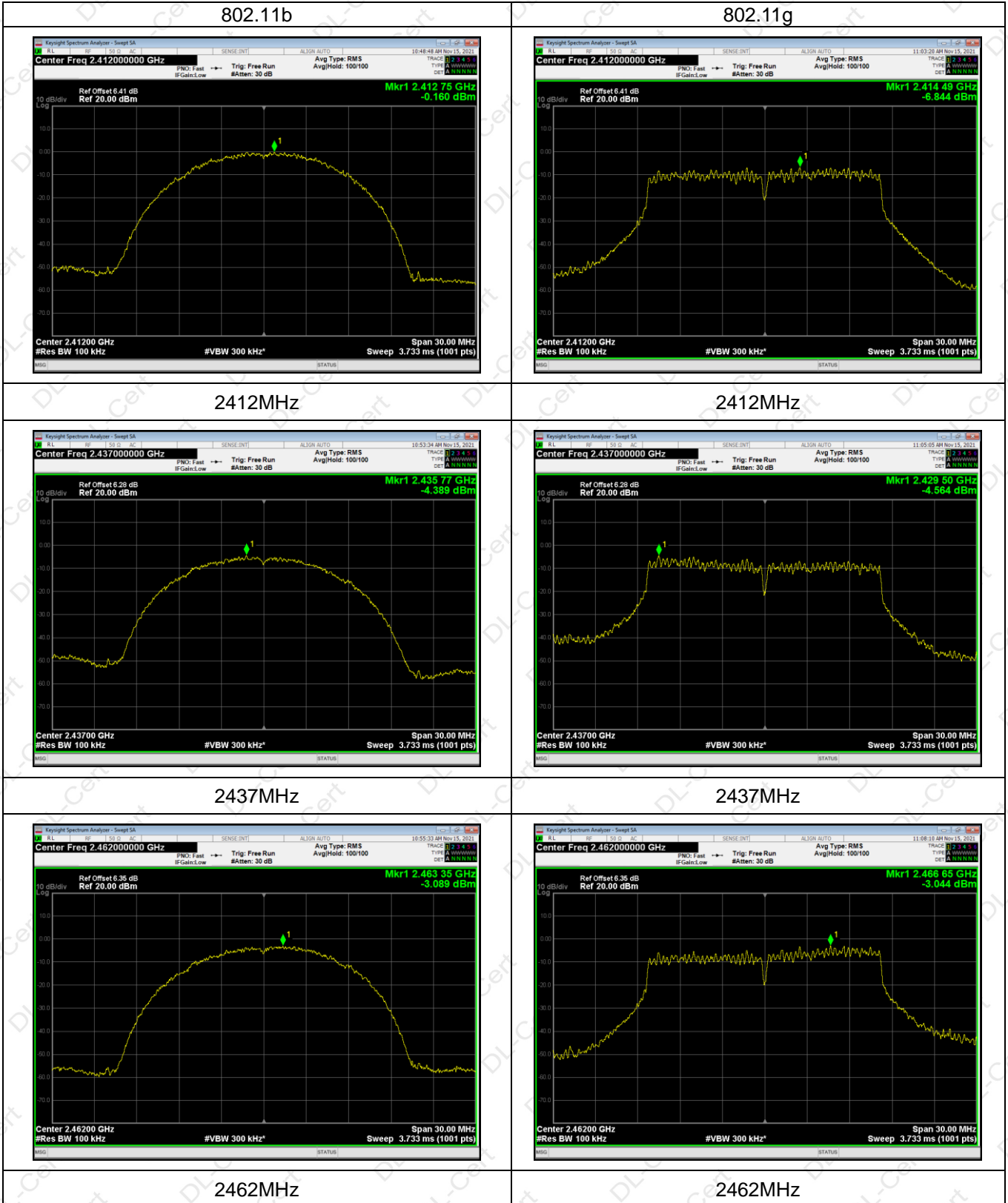


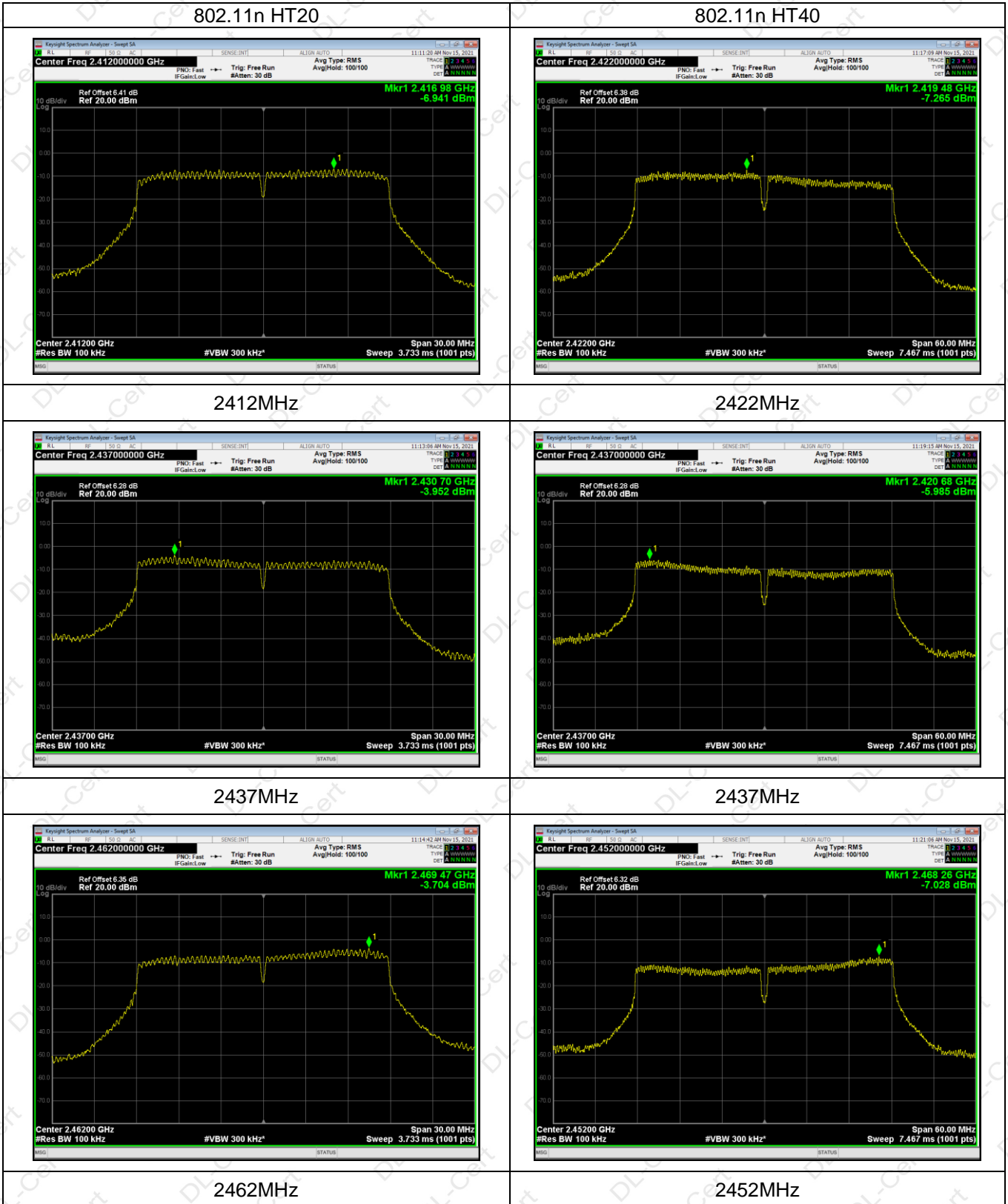
5.1.4 EUT OPERATION CONDITIONS

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.

**5.1.5 TEST RESULTS**

Mode	Test Channel	Reading Level (dBm/100KHz)	Limit (dBm/3KHz)	Result
802.11b	Low	-0.16	8	PASS
	Moddle	-4.389	8	PASS
	High	-3.089	8	PASS
802.11g	Low	-6.844	8	PASS
	Moddle	-4.564	8	PASS
	High	-3.044	8	PASS
802.11n20	Low	-6.941	8	PASS
	Moddle	-3.952	8	PASS
	High	-3.704	8	PASS
802.11n40	Low	-7.265	8	PASS
	Moddle	-5.985	8	PASS
	High	-7.028	8	PASS







6. 6DB BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) \geq RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

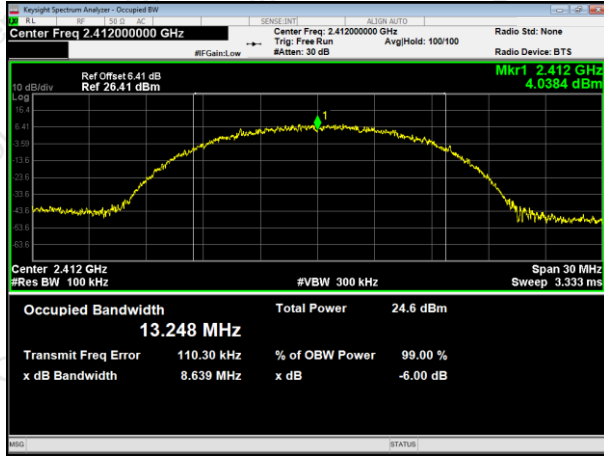
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**6.1.5 TEST RESULTS**

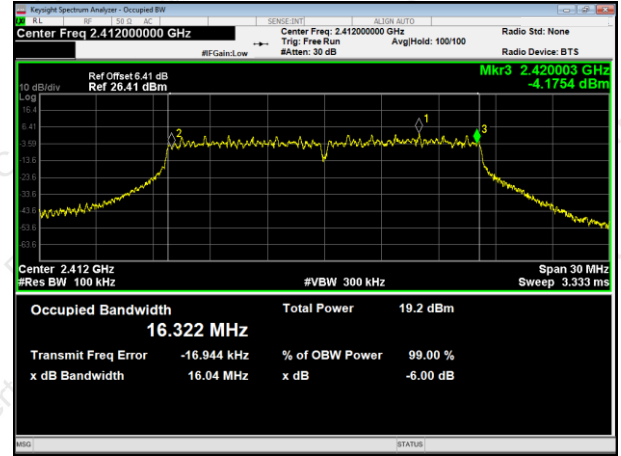
	Test Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	Low	8.639	0.5	Pass
	Middle	9.336	0.5	Pass
	High	10.077	0.5	Pass
802.11g	Low	16.041	0.5	Pass
	Middle	15.746	0.5	Pass
	High	15.734	0.5	Pass
802.11n HT20	Low	16.019	0.5	Pass
	Middle	16.265	0.5	Pass
	High	16.296	0.5	Pass
802.11n HT40	Low	34.213	0.5	Pass
	Middle	34.441	0.5	Pass
	High	35.673	0.5	Pass



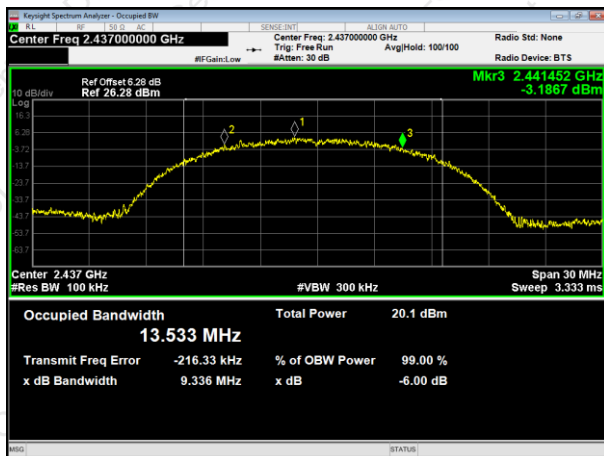
802.11b



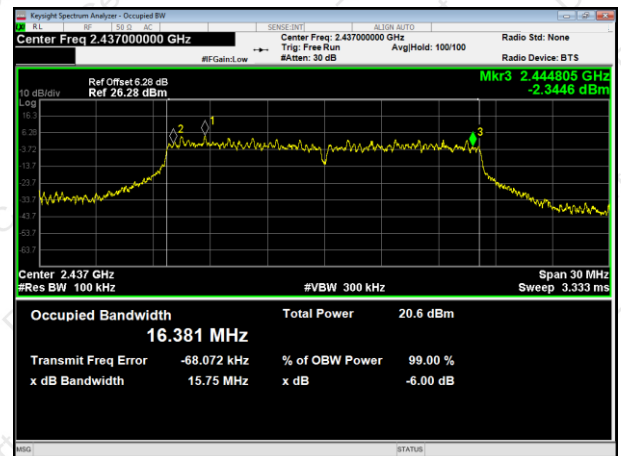
802.11g



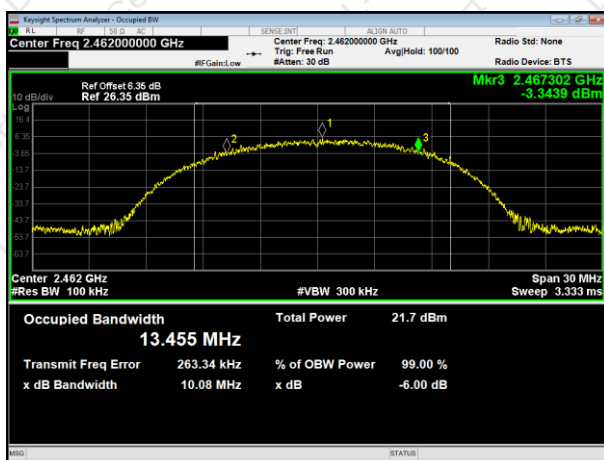
2412MHz



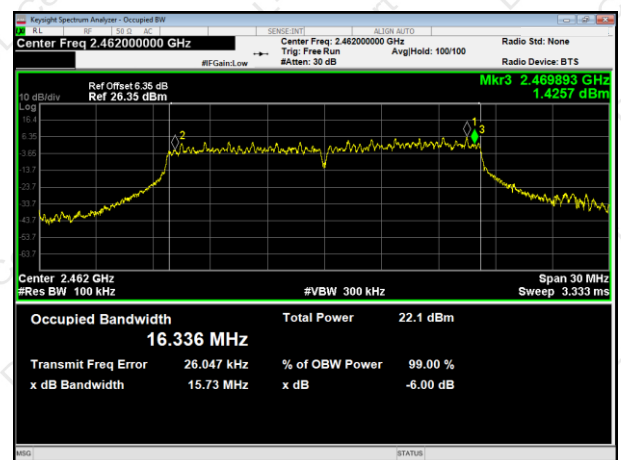
2412MHz



2437MHz



2437MHz

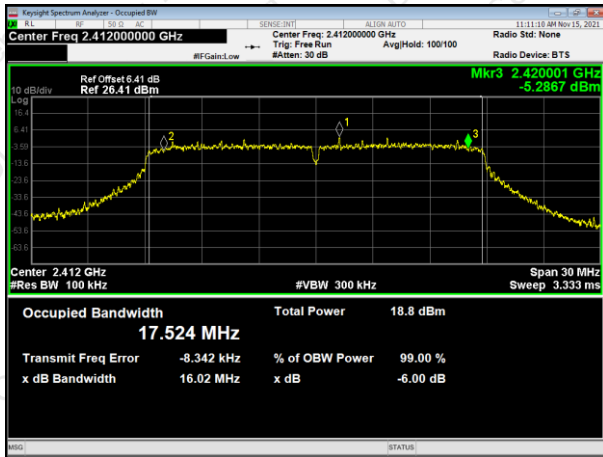


2462MHz

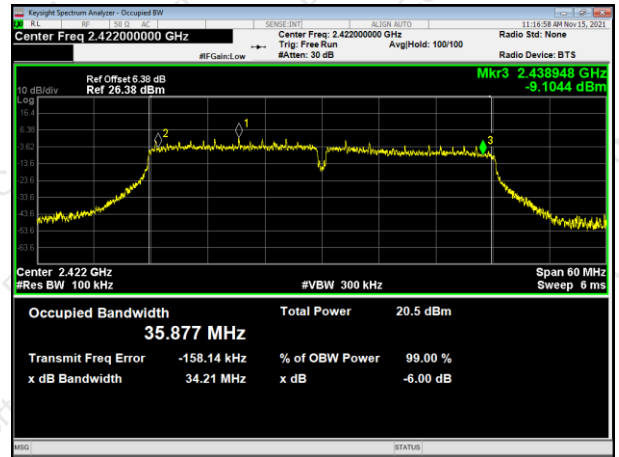
2462MHz



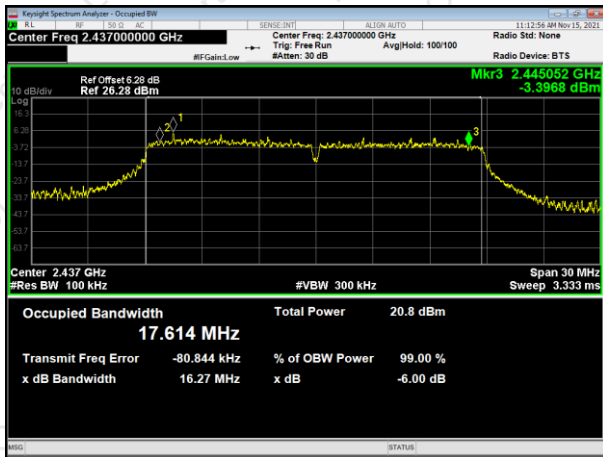
802.11n HT20



802.11n HT40



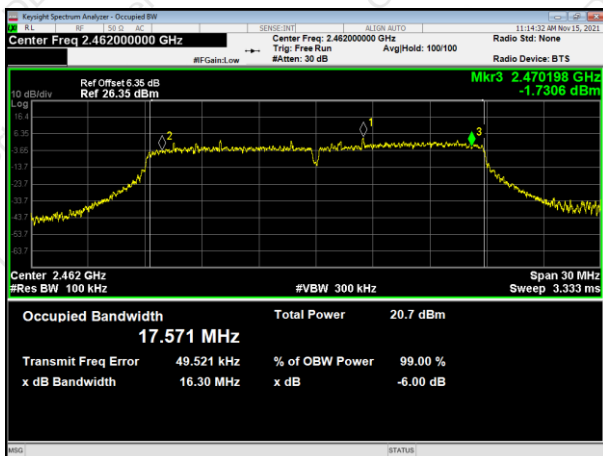
2412MHz



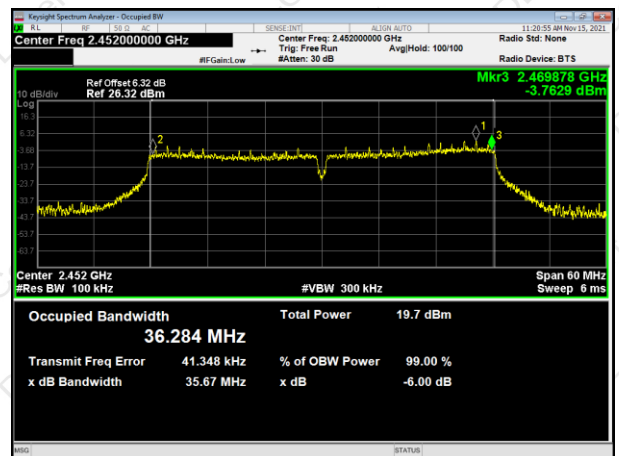
2422MHz



2437MHz



2437MHz



2462MHz

2452MHz



7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

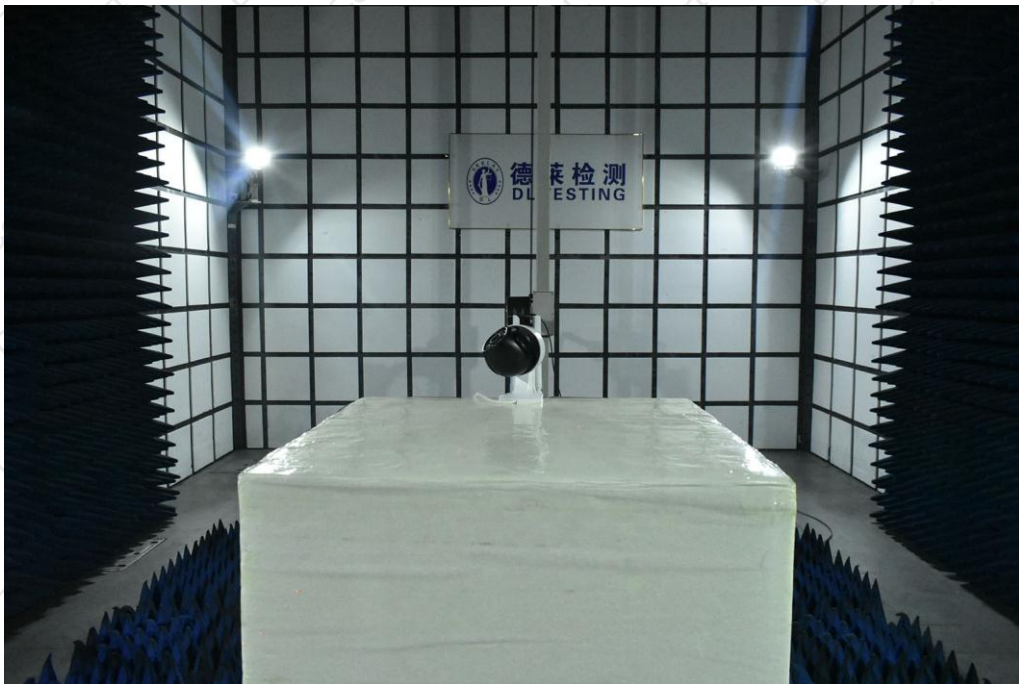
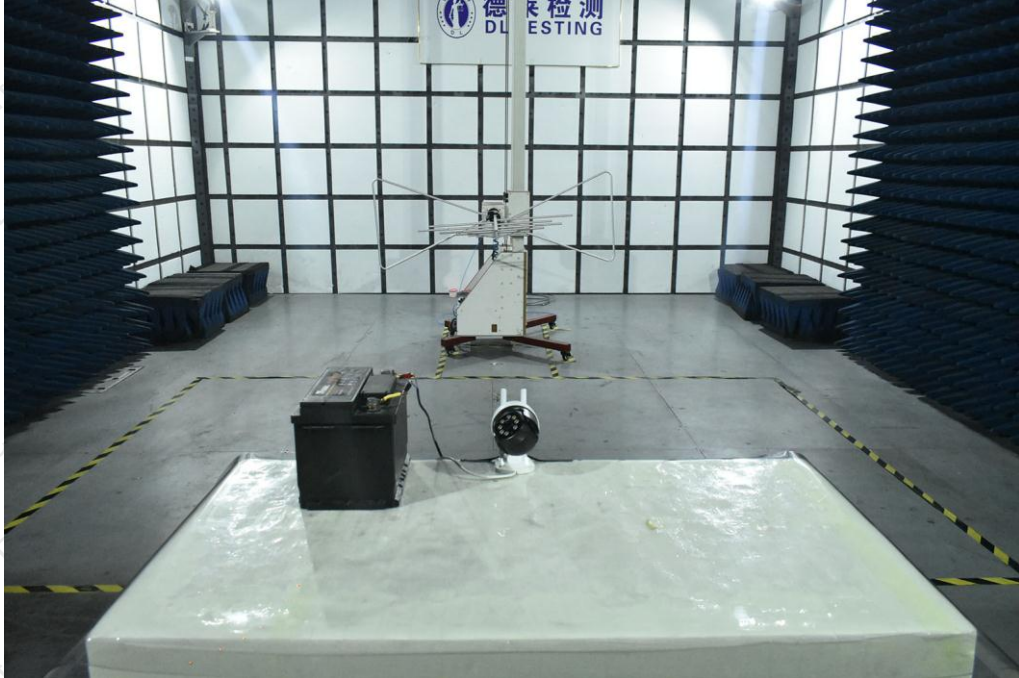
7.2 EUT ANTENNA

The EUT antenna is External antenna, It comply with the standard requirement.



8. TEST SEUUP PHOTO

Radiated Measurement Photos



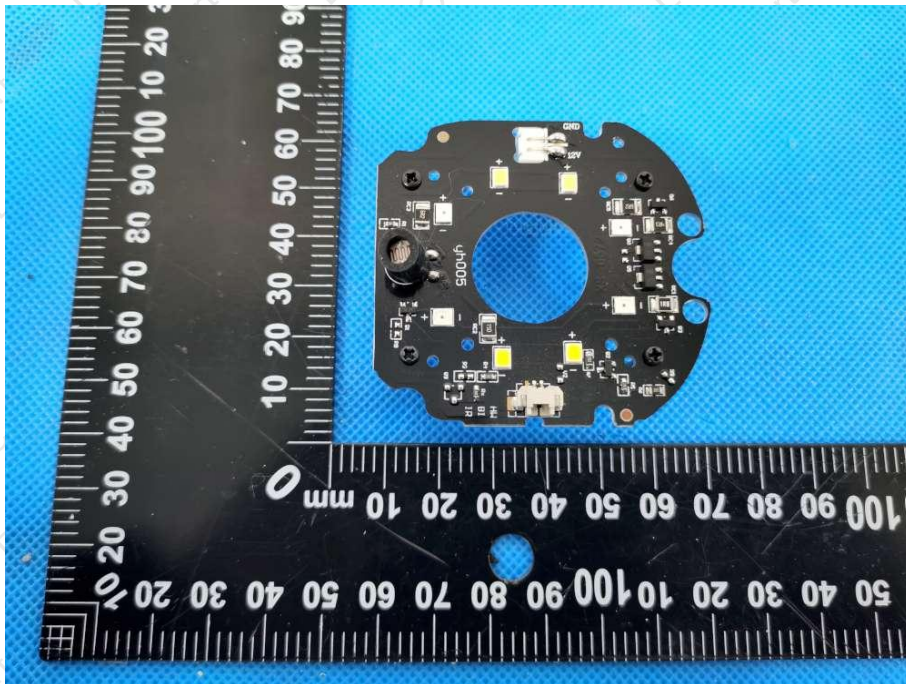
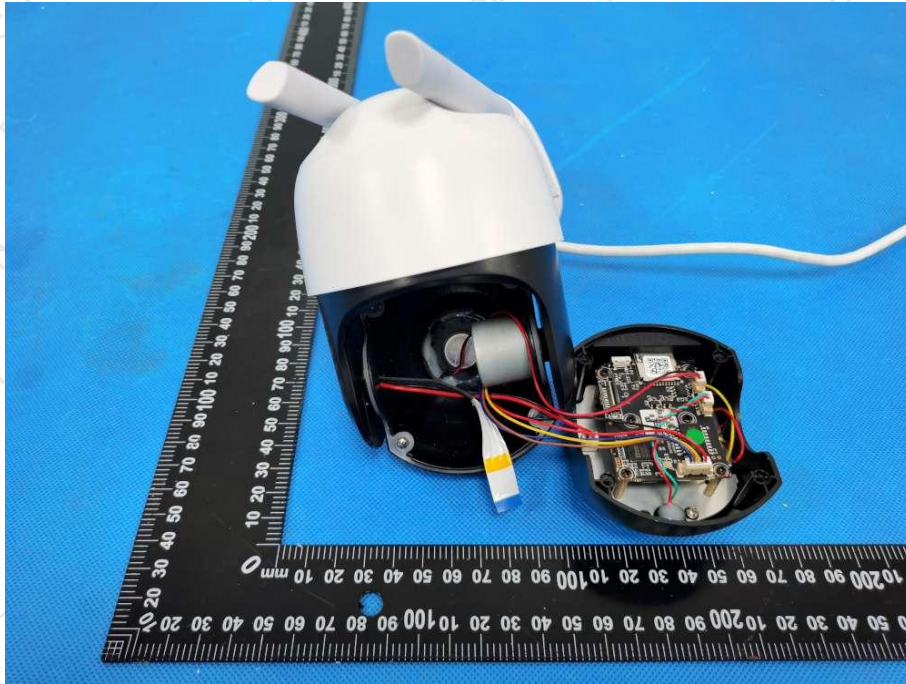


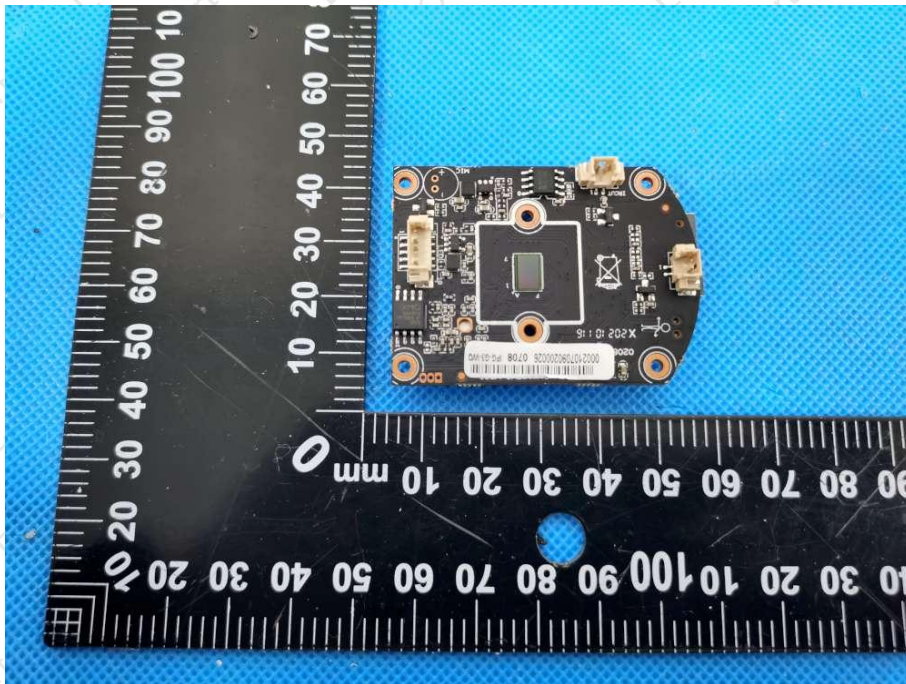
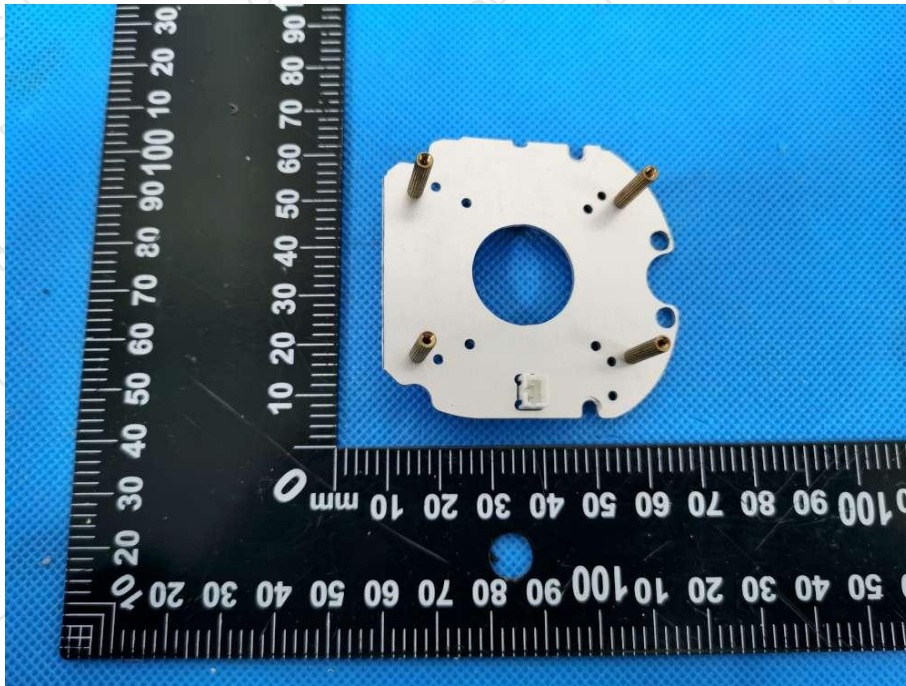
9. EUT PHOTO

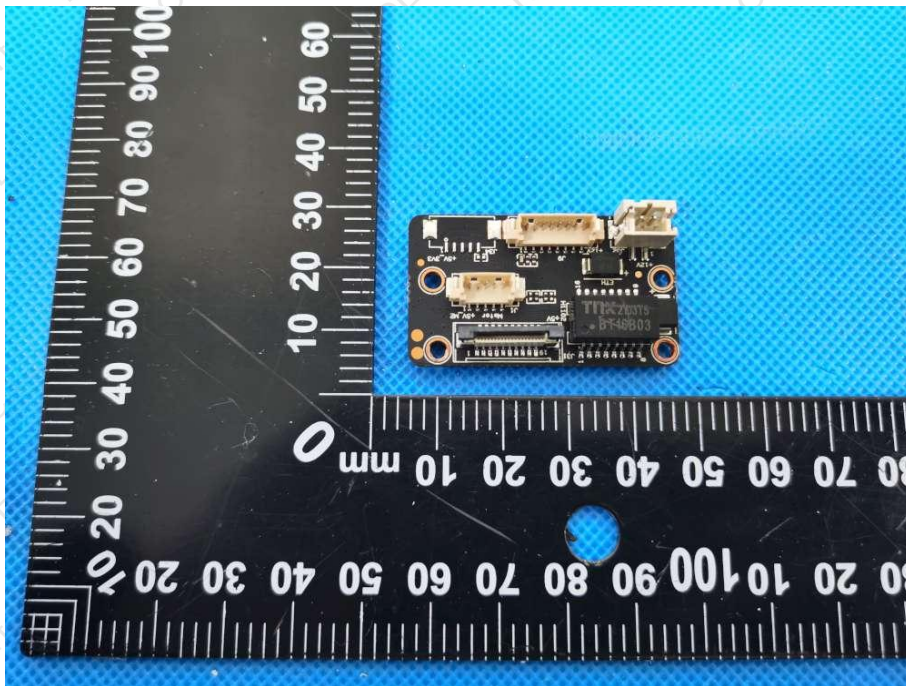
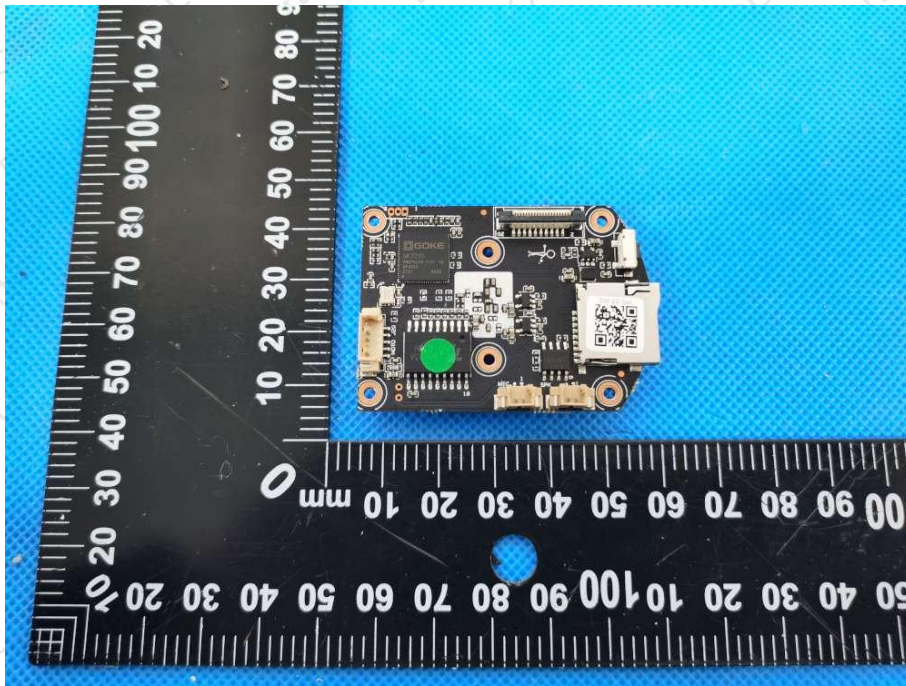


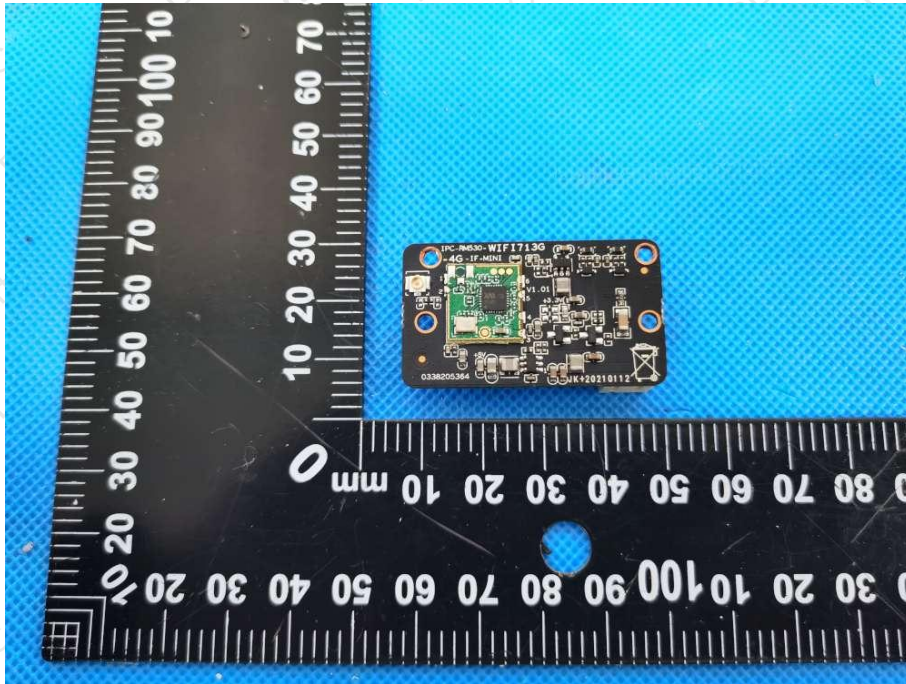












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