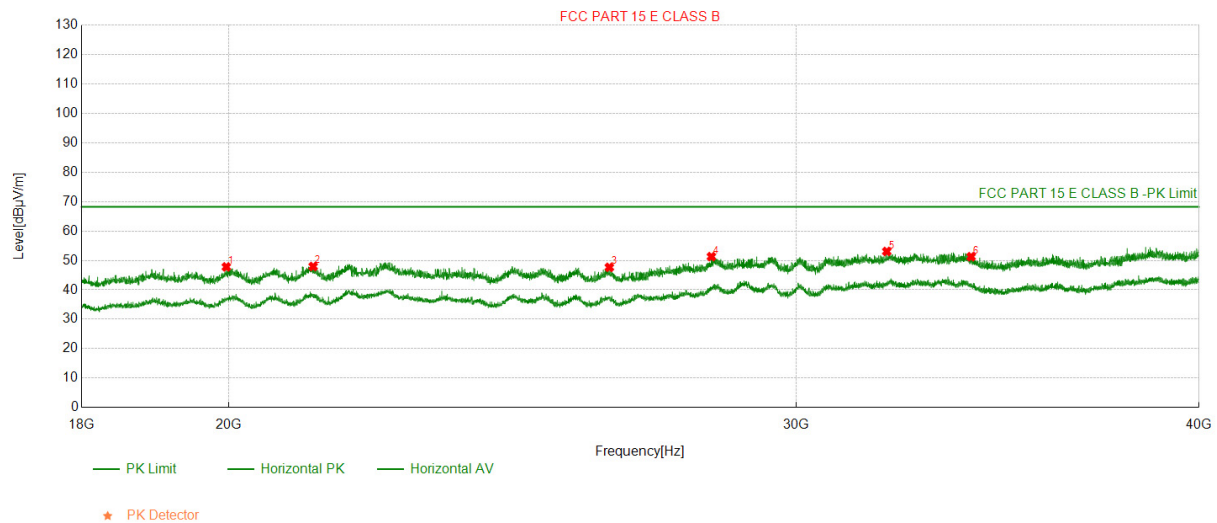




HUAKE TESTING

For 18GHz to 40GHz

Antenna polarity: Horizontal



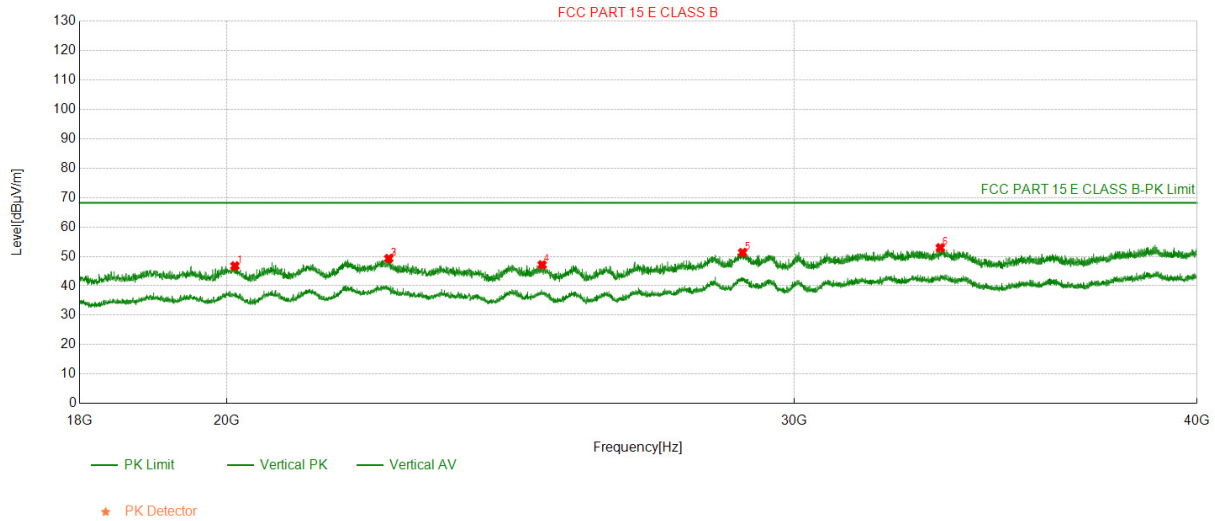
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	19962.596	41.61	47.80	6.19	68.20	20.40	150	50	Horizontal
2	21240.924	42.67	47.95	5.28	68.20	20.25	150	320	Horizontal
3	26246.425	40.86	47.66	6.80	68.20	20.54	150	150	Horizontal
4	28231.023	42.67	51.29	8.62	68.20	16.91	150	240	Horizontal
5	32000.000	43.33	53.06	9.73	68.20	15.14	150	260	Horizontal
6	33988.999	40.29	51.27	10.98	68.20	16.93	150	110	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



HUAKE TESTING

Antenna polarity: Vertical



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	20114.411	40.64	46.77	6.13	68.20	21.43	150	70	Vertical
2	22451.045	43.62	49.28	5.66	68.20	18.92	150	240	Vertical
3	22451.045	43.62	49.28	5.66	68.20	18.92	150	240	Vertical
4	25051.705	40.75	47.14	6.39	68.20	21.06	150	330	Vertical
5	28908.691	42.32	51.30	8.98	68.20	16.90	150	30	Vertical
6	33293.729	41.99	52.93	10.94	68.20	15.27	150	320	Vertical

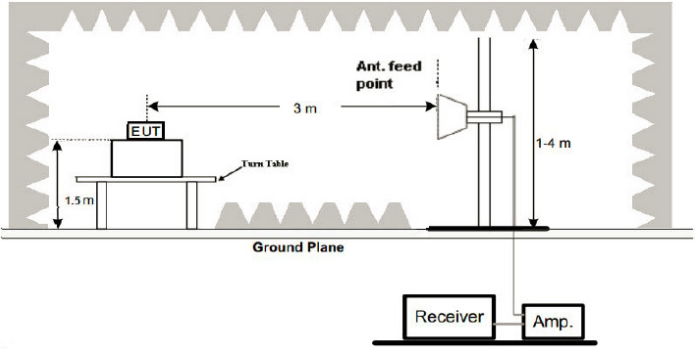
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



HUAKE TESTING

4.7 Band Edge

4.7.1 Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10: 2020
Limit:	(1)For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.
Test Setup:	 The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a turn table at a height of 1.5 m. The turn table is 3 m away from an antenna feed point. The antenna feed point is mounted on a vertical structure at a height of 1-4 m. The entire setup is on a ground plane. A receiver and an amplifier are connected to the antenna feed point.
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.



	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.
Test Result:	PASS



4.7.2 Test Instruments

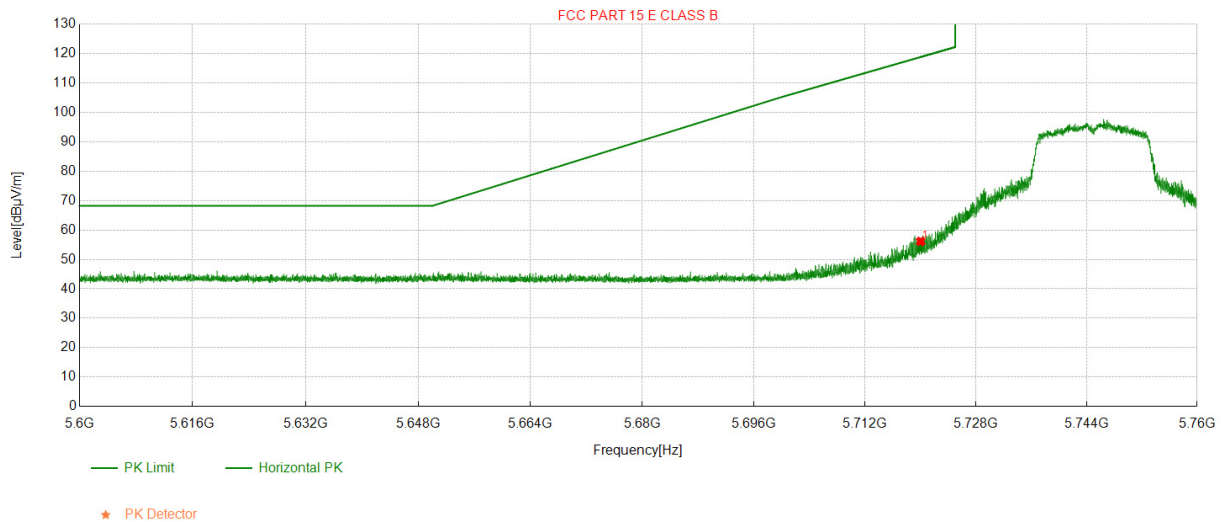
Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 06, 2026	Feb. 05, 2027
Spectrum analyzer	KEYSIGHT	N9020A	HKE-117	Feb. 06, 2026	Feb. 05, 2027
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 06, 2026	Feb. 05, 2027
Preamplifier	Schwarzbeck	EMC051845SE	HKE-006	Feb. 04, 2026	Feb. 03, 2027
Preamplifier	Agilent	83051A	HKE-016	Feb. 04, 2026	Feb. 03, 2027
Preamplifier	QJD	QJD18-40-50	HKE-030	Feb. 05, 2026	Feb. 04, 2027
6dB Attenuator	Pasternack	6dB	HKE-007	Feb. 06, 2026	Feb. 05, 2027
EMI Test Receiver	R&S	ESR-7	HKE-010	Feb. 06, 2026	Feb. 05, 2027
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 06, 2026	Feb. 05, 2028
Broadband Horn Antenna	A-INFO	LB-180400-KF	HKE-031	Feb. 06, 2026	Feb. 05, 2028
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 06, 2026	Feb. 05, 2028
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 06, 2026	Feb. 05, 2028
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

4.7.3 Test Data

All the test modes completed for test. Only the worst result was reported as below:

802.11n(HT20)-5745

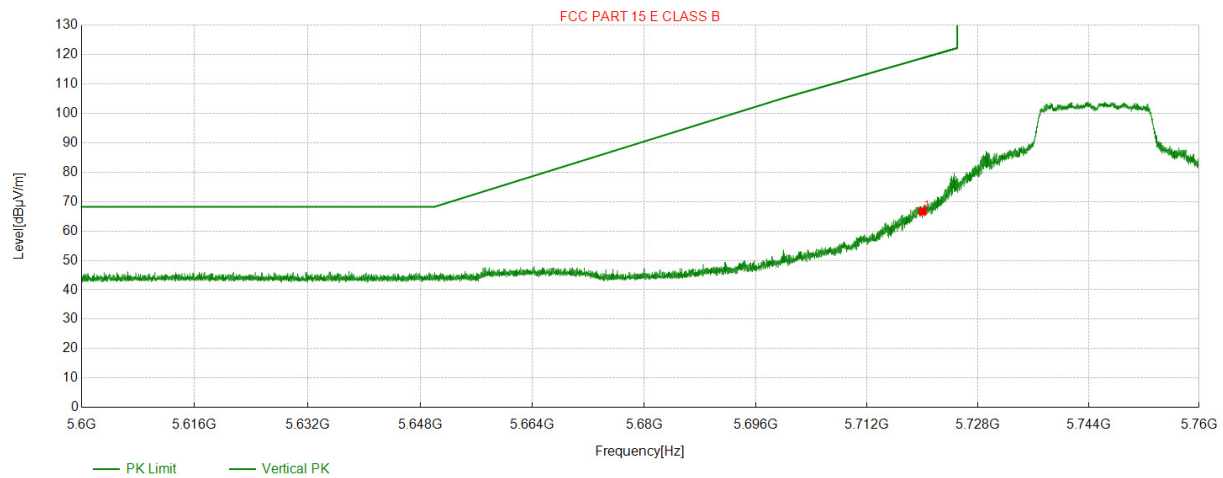
Antenna polarity: Horizontal



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.000	62.20	56.13	-6.07	118.80	62.67	150	265	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical

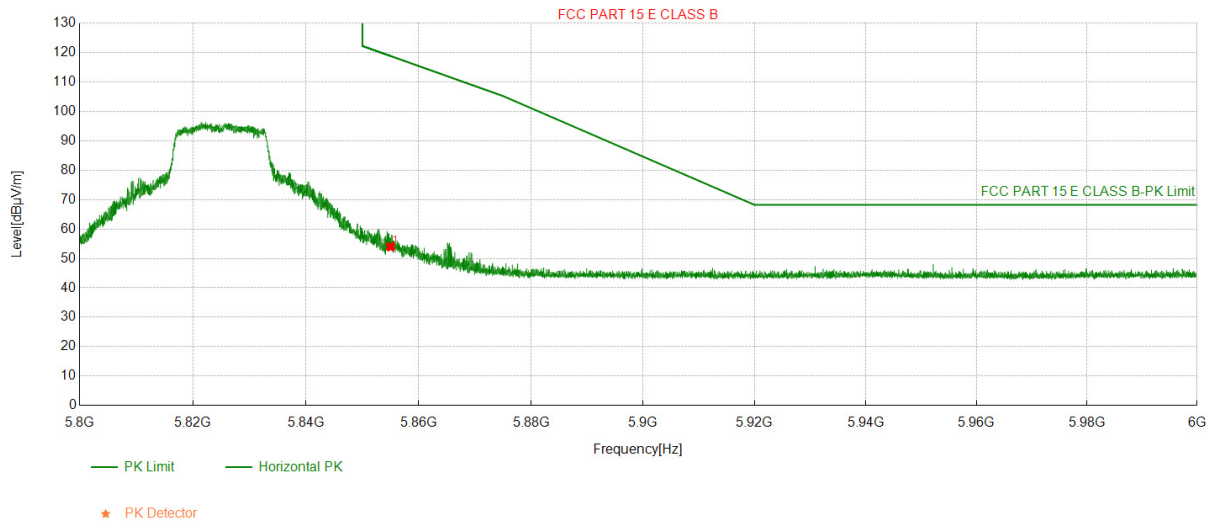


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.000	72.79	66.72	-6.07	118.80	52.08	150	30	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

802.11n(HT20)-5825

Antenna polarity: Horizontal

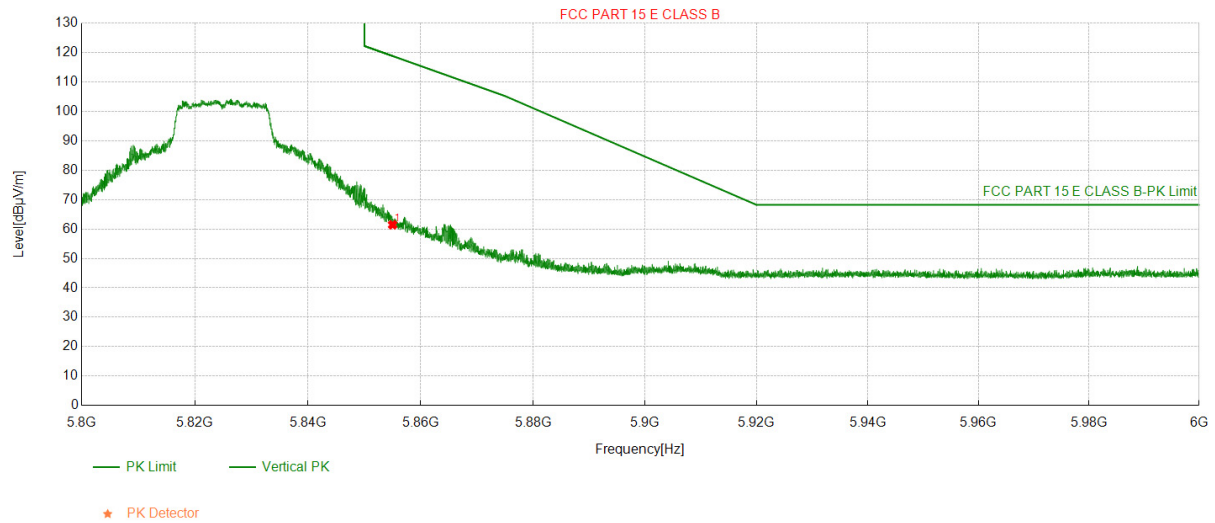


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5855.000	59.76	53.97	-5.79	118.80	64.83	150	218	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: Vertical



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5855.000	67.22	61.43	-5.79	118.80	57.37	150	168	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



HUAKE TESTING

4.8 Frequency Stability Measurement

4.8.1 Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)
Test Method:	ANSI C63.10: 2020
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	<pre>graph LR; SA[Spectrum Analyzer] --- TC[Temperature Chamber]; subgraph TC; EUT[EUT]; end; EUT --- P[AC/DC Power supply];</pre>
Test Procedure:	- The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. - Turn the EUT on and couple its output to a spectrum analyzer. - Turn the EUT off and set the chamber to the highest temperature specified. - Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. - Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. - The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	N/A



4.8.2 Test Instruments

RF Test Room

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 06, 2026	Feb. 05, 2027
Spectrum analyzer	KEYSIGHT	N9020A	HKE-117	Feb. 06, 2026	Feb. 05, 2027
Power meter	KEYSIGHT	E4419B	HKE-144	Feb. 06, 2026	Feb. 05, 2027
Power Sensor	Aglient	E9304A H18	HKE-165	Feb. 06, 2026	Feb. 05, 2027
RF cable	Times	1-40G	N/A	Feb. 06, 2026	Feb. 05, 2027
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 06, 2026	Feb. 05, 2027
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.8.3 Test Result

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	4.2V	5744.990	-10	5825.017	17
	5.0V	5745.013	13	5825.015	15
	5.7V	5745.010	10	5824.980	-20

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	-30	5744.991	-9	5824.995	-5
	-20	5744.980	-20	5825.014	14
	-10	5744.990	-10	5825.010	10
	0	5745.017	17	5824.985	-15
	10	5745.010	10	5825.028	28
	20	5744.995	-5	5824.984	-16
	30	5745.017	17	5824.997	-3
	40	5745.019	19	5824.982	-18
	50	5744.984	-16	5825.018	18

Standard Applicable

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.

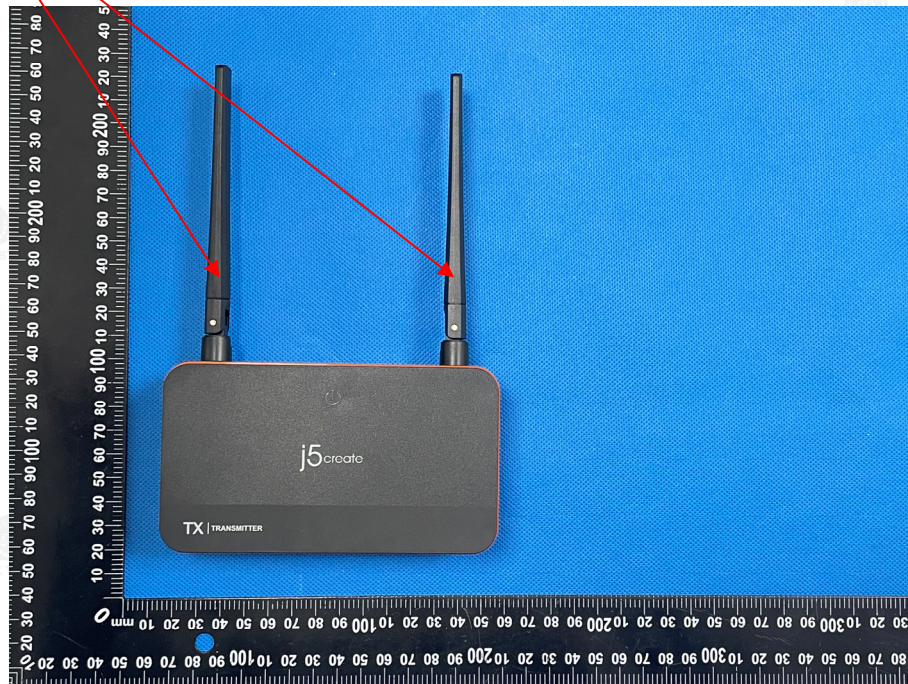
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

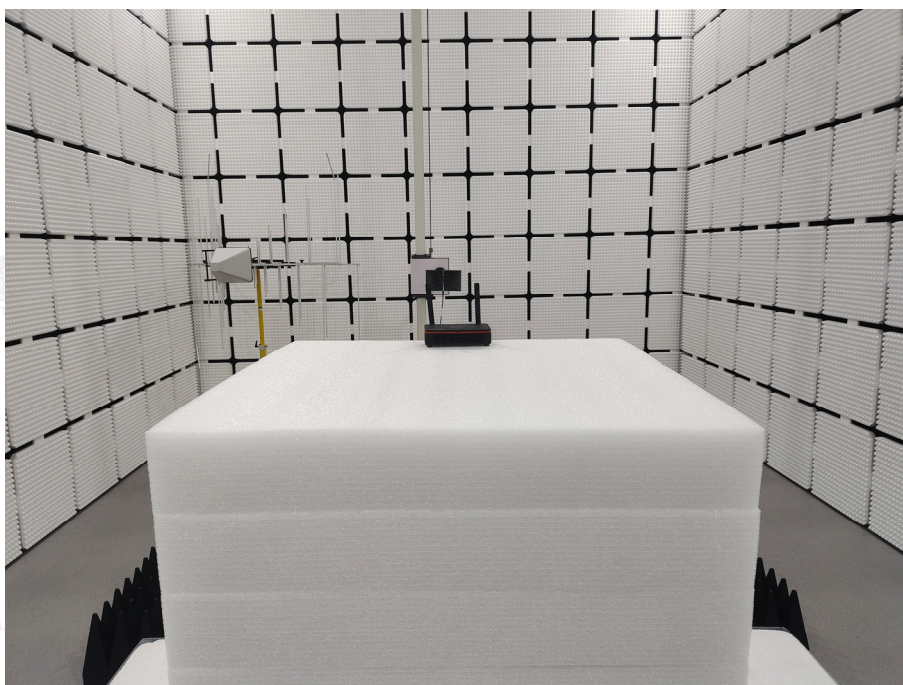
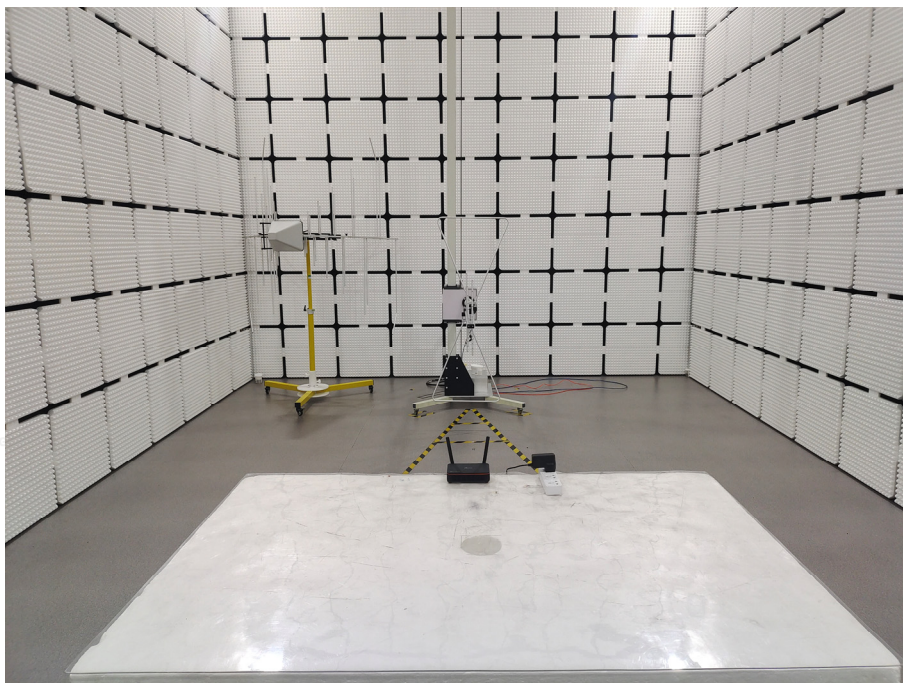
The antenna used in this product is External Antenna, need professional installation, not easy to remove. It conforms to the standard requirements. and the best case gain of the antenna is Antenna port 1: 5.36dBi and Antenna port 2: 5.50dBi.

WIFI ANTENNA



5. Test Setup Photos of the EUT

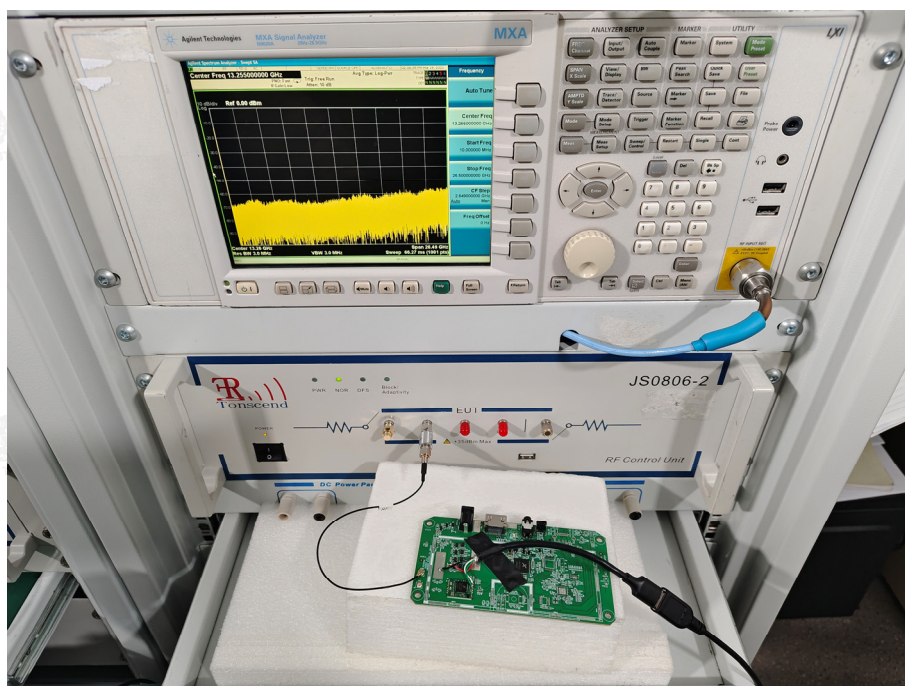
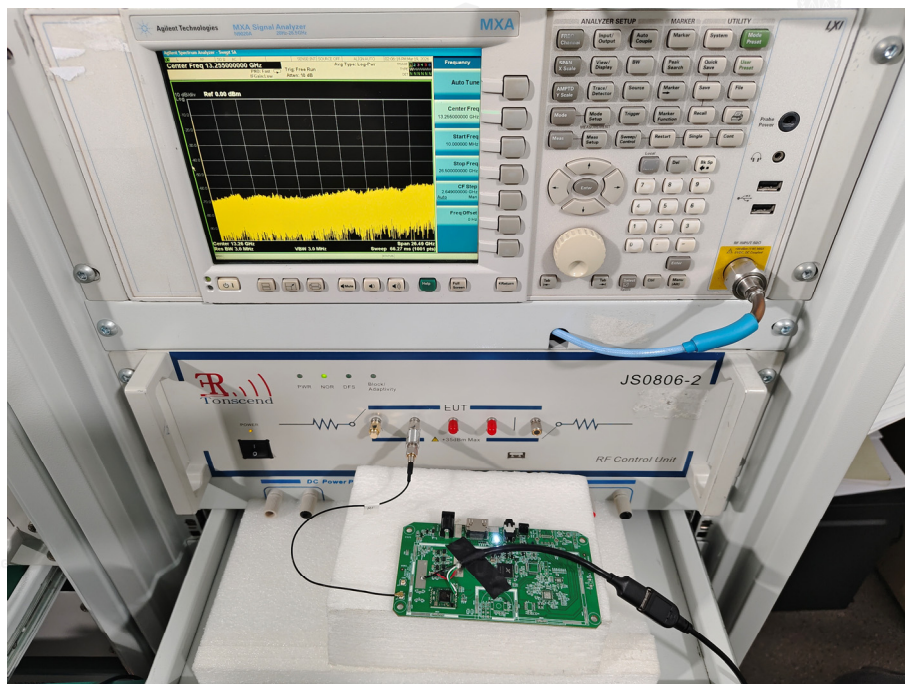
Radiated Emission



AC Conducted Emission



RF Conducted Emission



6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----