FCC RADIO TEST REPORT

FCC ID: 2BCA3G-528

Sample : wireless mouse

Trade Mark : Indena,TECKNET

Main Model : G-528

Additional Model : G-529, G-530, TK-MS056

Report No. : UNIA25061107ER-61

Prepared for

Shenzhen Leader-Union Technology Co., Ltd.

3F, No.90, Alley 5, Hekan Village, Ban Tian, LongGang District, Shenzhen, China

Prepared by

Shenzhen United Testing Technology Co., Ltd.

D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

TEST RESULT CERTIFICATION

Applicant.....: Shenzhen Leader-Union Technology Co., Ltd.

Address.....: 3F, No.90, Alley 5, Hekan Village, Ban Tian, LongGang District, Shenzhen, China

Manufacturer .....: Dongguan Indena Electronic Technology Co., Ltd

Address.....: Building 2, No.118-3, Gaoyu North Road, Tangxia Town,Dongguan City, Guangdong Province, China

Product description

Product.....: wireless mouse

Trade Mark.....: Indena,TECKNET

Model Name.....: G-528, G-529, G-530, TK-MS056

Test Methods .....: FCC Rules and Regulations Part 15 Subpart C Section 15.249, ANSI C63.10: 2013

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests ..... : Jun. 13, 2025 ~ Jun. 17, 2025

Date of Issue ..... : Jun. 19, 2025

Test Result ..... : Pass

Edited by: Abe Yang

Reviewed by: Kelly Cheng

Approved by: Liuze

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1 TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC Part 15.207	Conducted Emission	N/A
2	FCC Part 15.209/15.249	Radiated Emission	Pass
3	FCC Part 15.249/15.205	Band Edge	Pass
4	FCC Part 15.215	20dB Bandwidth	Pass
5	FCC Part 15.203	Antenna Requirement	Pass

Note:

“N/A” denotes test is not applicable in this Test Report.

1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.

Address : D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01
The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885
The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584
The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 150kHz	2.96	
		150kHz ~ 30MHz	2.44	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 30MHz	2.50	
		30MHz ~ 1000MHz	4.80	
		Above 1000MHz	4.13	

C. RF Conducted Method:

Item	Measurement Uncertainty
Uncertainty of total RF power, conducted	U_c = ±0.8 dB
Uncertainty of RF power density, conducted	U_c = ±2.6 dB
Uncertainty of spurious emissions, conducted	U_c = ±2 %
Uncertainty of Occupied Channel Bandwidth	U_c = ±2 %

1.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (℃)	15 - 35	-20 - 50
Relative humidty range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product:	wireless mouse
Trade Mark:	Indena,TECKNET
Main Model:	G-528
Additional Model:	G-529, G-530, TK-MS056
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: G-528.
FCC ID:	2BCA3G-528
Operation Frequency:	2403MHz~2479MHz
Number of Channels:	16CH
Field Strength of Fundamental:	94.19dBuV/m(Peak)@3m
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-1.66dBi
Battery:	DC 1.5V
Adapter:	N/A
Power Source:	DC 1.5V from battery

2.2 CARRIER FREQUENCY OF CHANNELS

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2403	05	2422	09	2441	13	2463
02	2407	06	2426	10	2445	14	2466
03	2414	07	2436	11	2453	15	2473
04	2419	08	2439	12	2459	16	2479

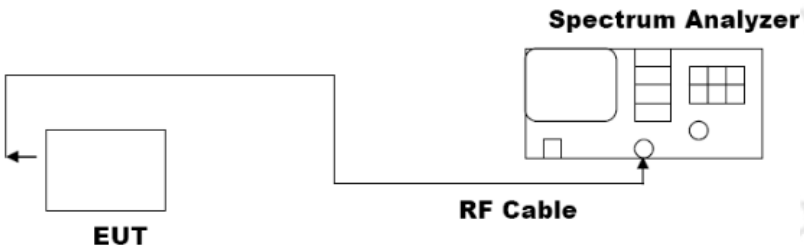
2.3 DESCRIPTION OF TEST MODES

No.	Test Mode Description
1	Low channel TX: 2403MHz
2	Middle channel TX: 2441MHz
3	High channel TX: 2479MHz
Note: 1. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 2. For Conducted Test method, at emporary antenna connector is provided by the manufacture.	

2.4 TEST SETUP

Operation of EUT during Radiation testing:

Operation of EUT during RF Conducted testing:



2.5 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model/Type No.	Cable Length(m)	Note
1	wireless mouse	G-528	--	EUT

Note:1. The support equipment was authorized by Declaration of Confirmation.

2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

2.6 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Horn Antenna	Sunol	DRH-118	A101415	2027.03.27
2	Broadband Hybrid Antenna	Sunol	JB1	A090215	2027.03.27
3	PREAMP	HP	8449B	3008A00160	2026.03.29
4	PREAMP	HP	8447D	2944A07999	2026.03.25
5	EMI Test Receiver	Rohde&Schwarz	ESR3	101891	2026.03.25
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2026.03.25
7	MXA Signal Analyzer	Agilent	N9020A	MY51110104	2026.03.25
8	RF Power Sensor	DARE	RPR3006W	15I00041SNO88	2026.03.26
9	RF Power Sensor	DARE	RPR3006W	15I00041SNO89	2026.03.26
10	RF Power Divider	Anritsu	K241B	992289	2026.03.26
11	Signal Generator	Agilent	E4421B	MY4335105	2026.03.25
12	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2026.03.25
13	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	154987	2026.03.25
14	Active Loop Antenna	Com-Power	AL-130R	10160009	2026.05.26
15	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2026.03.27
16	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2026.03.27
17	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2026.03.27
18	Signal Generator	Agilent	N5183A	MY47420153	2026.03.27
19	Spctrum Analyzer	Rohde&Schwarz	FSP 40	100501	2026.03.27
20	Power Meter	KEYSIGHT	N1911A	MY50520168	2026.03.27
21	Frequency Meter	VICTOR	VC2000	997406086	2026.03.27
22	DC Power Source	HYELEC	HY5020E	055161818	2026.03.27
23	Low-noise Amplifier	WSC	DLNA-9K-1000	WCSLNA240816A	2026.03.25
24	Spctrum Analyzer	Rohde&Schwarz	FSV40-N	101798	2026.03.25
25	MTS 8310	MW	Copyright MWRFtest 2017	V2.0.0.0	N/A

3 CONDUCTED EMISSION

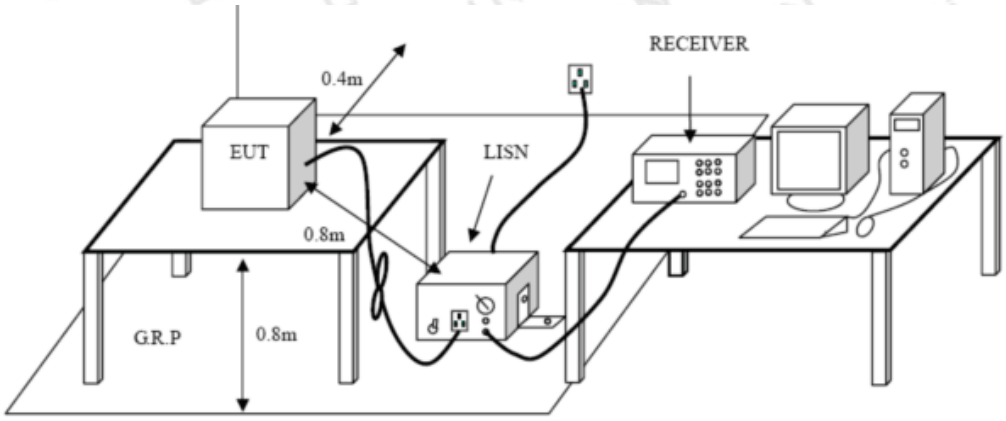
3.1 TEST LIMIT

For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15~0.50	79	66	66~56*	56~46*
0.50~5.00	73	60	56	46
5.00~30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency.
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 TEST SETUP



3.3 TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

3.4 TEST RESULT

N/A

Remark:
The EUT is powered by DC 1.5V battery.

4 RADIATED EMISSION

4.1 TEST LIMIT

For unintentional device, according to § 15.209(a), except for Class B digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values：

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F (kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3
		74.0	Peak	3

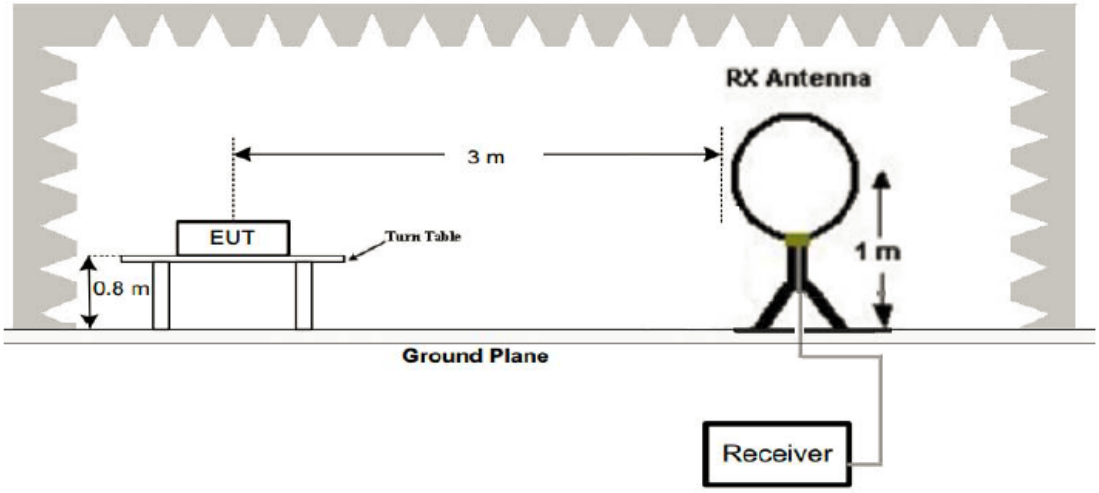
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

Limit: (Field strength of the fundamental signal)

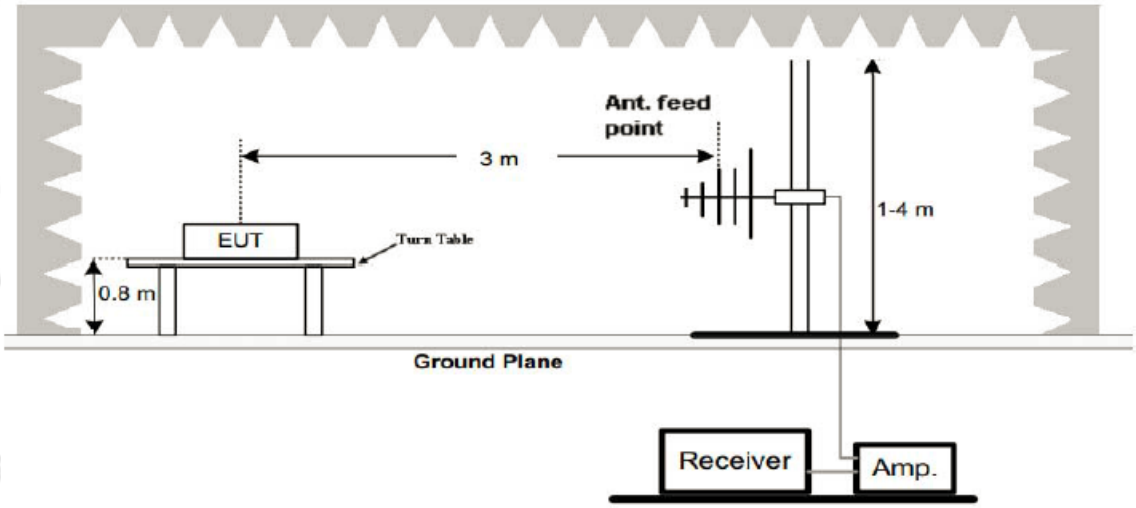
Frequency	Limit (dBuV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

4.2 TEST SETUP

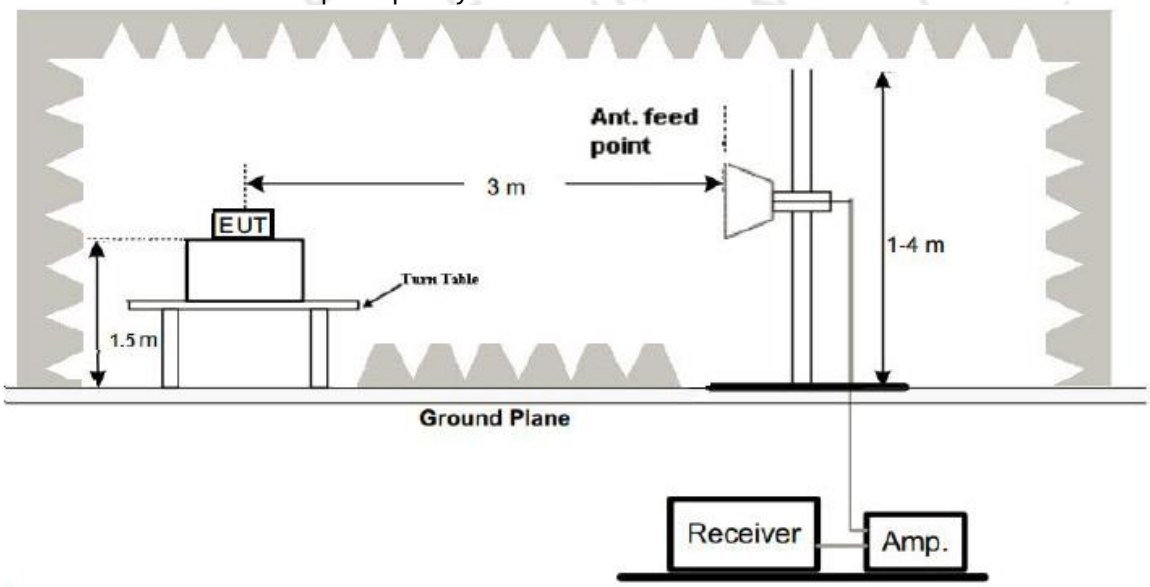
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz



4.3 TEST PROCEDURE

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9kHz to 25GHz per FCC PART 15.33(a).

Note: For battery operated equipment, the equipment tests shall be performed using a new battery.

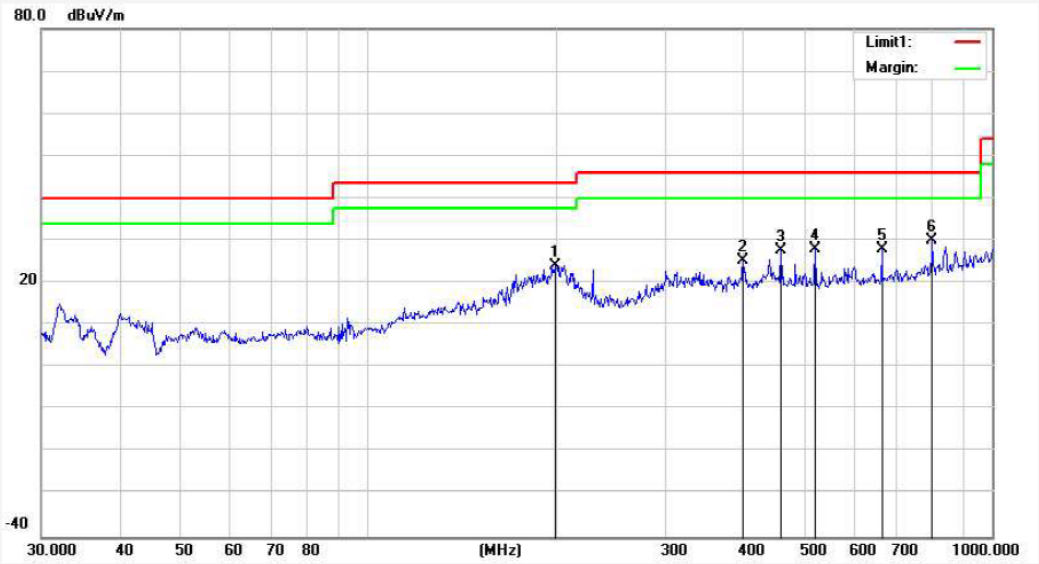
4.4 TEST RESULT

PASS

Remark:
1. All modes were test at Low, Middle, and High channel, only the worst result of GFSK Middle Channel was reported for below 1GHz test.
2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, and test data recorded in this report.
3. Radiated emission test from 9kHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9kHz to 30MHz and not recorded in this report.

Below 1GHz Test Results:

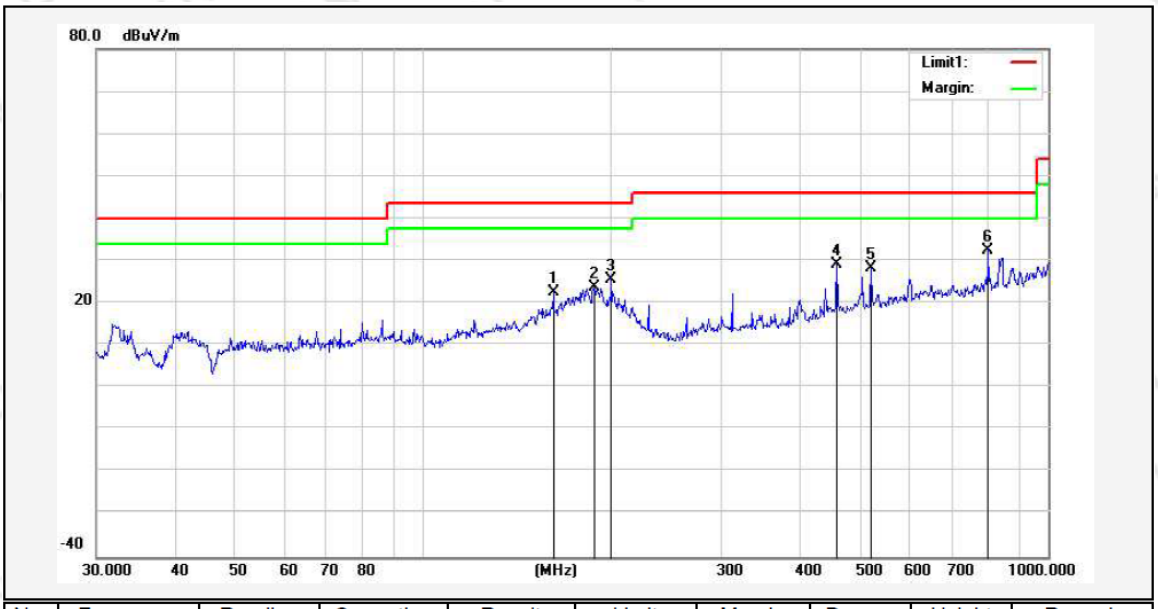
Temperature:	24℃	Relative Humidity:	48%
Test Date:	Jun. 14, 2025	Pressure:	1010hPa
Test Voltage:	DC 1.5V	Phase:	Horizontal
Test Mode:	Transmitting mode of GFSK 2441MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	199.2855	38.62	-14.45	24.17	43.50	-19.33	122	100	QP
2	399.0302	36.09	-10.71	25.38	46.00	-20.62	135	100	QP
3	459.1144	38.58	-10.94	27.64	46.00	-18.36	114	100	QP
4	520.8882	36.84	-8.98	27.86	46.00	-18.14	158	100	QP
5	665.8035	34.90	-6.95	27.95	46.00	-18.05	149	100	QP
6*	801.7863	33.63	-3.43	30.20	46.00	-15.80	167	100	QP

Remark: Result = Reading Level + Factor, Margin = Result – Limit
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Temperature:	24℃	Relative Humidity:	48%
Test Date:	Jun. 14, 2025	Pressure:	1010hPa
Test Voltage:	DC 1.5V	Phase:	Vertical
Test Mode:	Transmitting mode of GFSK 2441MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	161.4742	37.91	-15.44	22.47	43.50	-21.03	186	100	QP
2	187.7530	40.10	-16.25	23.85	43.50	-19.65	123	100	QP
3	199.9856	39.83	-14.13	25.70	43.50	-17.80	151	100	QP
4	459.1144	40.16	-10.94	29.22	46.00	-16.78	177	100	QP
5	520.8882	37.38	-8.98	28.40	46.00	-17.60	139	100	QP
6*	801.7863	35.98	-3.43	32.55	46.00	-13.45	110	100	QP

Remark: Result = Reading Level + Factor, Margin = Result – Limit
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:
1. Measuring frequencies from 9 kHz to the 1 GHz, Radiated emission test from 9kHz to 30MHzwas verified, and no any emission was found except system noise floor.
2. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz.

Above 1 GHz Test Results:

CH01 (2403MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2403	99.58	-5.84	93.74	114	-20.26	PK
2403	79.27	-5.84	73.43	94	-20.57	AV
4806	56.45	-3.64	52.81	74	-21.19	PK
4806	36.38	-3.64	32.74	54	-21.26	AV
7209	53.46	-0.95	52.51	74	-21.49	PK
7209	33.03	-0.95	32.08	54	-21.92	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2403	99.27	-5.84	93.43	114	-20.57	PK
2403	79.03	-5.84	73.19	94	-20.81	AV
4806	56.34	-3.64	52.7	74	-21.3	PK
4806	36.09	-3.64	32.45	54	-21.55	AV
7209	53.02	-0.95	52.07	74	-21.93	PK
7209	32.53	-0.95	31.58	54	-22.42	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit						

CH09 (2441MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2441	99.9	-5.71	94.19	114	-19.81	PK
2441	79.63	-5.71	73.92	94	-20.08	AV
4882	56.83	-3.51	53.32	74	-20.68	PK
4882	36.77	-3.51	33.26	54	-20.74	AV
7323	53.72	-0.82	52.9	74	-21.1	PK
7323	33.4	-0.82	32.58	54	-21.42	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2441	99.44	-5.71	93.73	114	-20.27	PK
2441	79.2	-5.71	73.49	94	-20.51	AV
4882	56.46	-3.51	52.95	74	-21.05	PK
4882	36.23	-3.51	32.72	54	-21.28	AV
7323	53.18	-0.82	52.36	74	-21.64	PK
7323	32.62	-0.82	31.8	54	-22.2	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit						

CH16 (2479MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2479	99.63	-5.65	93.98	114	-20.02	PK
2479	79.05	-5.65	73.4	94	-20.6	AV
4958	56.4	-3.43	52.97	74	-21.03	PK
4958	36.24	-3.43	32.81	54	-21.19	AV
7437	53.3	-0.75	52.55	74	-21.45	PK
7437	32.95	-0.75	32.2	54	-21.8	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2479	99.13	-5.63	93.5	114	-20.5	PK
2479	78.81	-5.65	73.16	94	-20.84	AV
4958	56.09	-3.43	52.66	74	-21.34	PK
4958	35.92	-3.43	32.49	54	-21.51	AV
7437	52.81	-0.75	52.06	74	-21.94	PK
7437	32.33	-0.75	31.58	54	-22.42	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Emission Level – Limit						

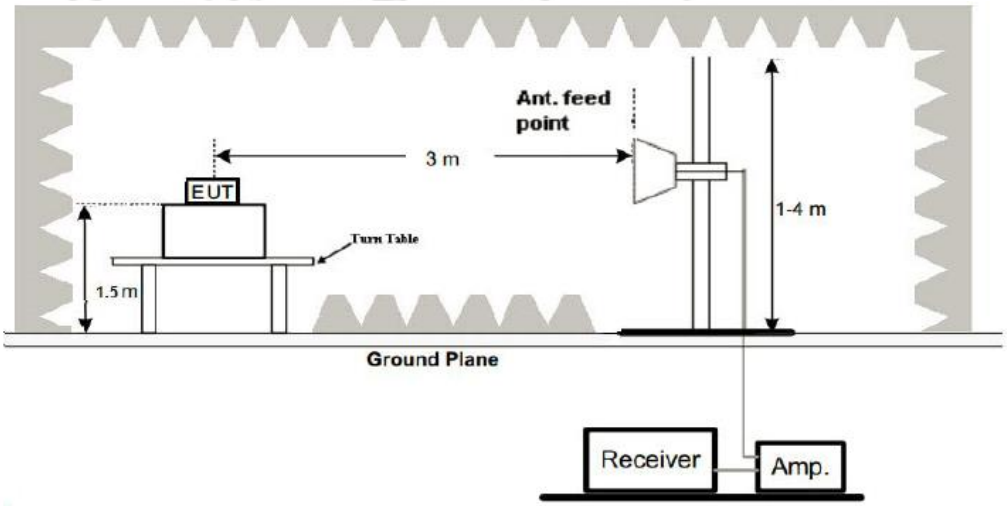
Remark:
1. Measuring frequencies from 1 GHz to the 25 GHz.
2. “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
3. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
4. Data of measurement within this frequency range shown “--- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10kHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
6. When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
7. For fundamental frequency, RBW >20dB BW, VBW>=3XRBW, PK detector for PK value, AV detector for AV value.

5 BAND EDGE

5.1 TEST LIMIT

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 TEST SETUP



5.3 MEASUREMENT EQUIPMENT USED

Refer to Section 2.6.

5.4 TEST PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode. The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
   (b) AVERAGE: RBW=1MHz ; VBW=3MHz / Sweep=AUTO

5.5 TEST RESULT

PASS

Operation Mode: TX CH01 (2403MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	56.88	-5.81	51.07	74	-22.93	PK
2310	/	-5.81	/	54	/	AV
2390	56.94	-5.84	51.1	74	-22.9	PK
2390	/	-5.84	/	54	/	AV
2400	56.86	-5.84	51.02	74	-22.98	PK
2400	/	-5.84	/	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	56.64	-5.81	50.83	74	-23.17	PK
2310	/	-5.81	/	54	/	AV
2390	56.79	-5.84	50.95	74	-23.05	PK
2390	/	-5.84	/	54	/	AV
2400	56.99	-5.84	51.15	74	-22.85	PK
2400	/	-5.84	/	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: TX CH16 (2479MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	55.69	-5.65	50.04	74	-23.96	PK
2483.5	/	-5.65	/	54	/	AV
2500	56.85	-5.72	51.13	74	-22.87	PK
2500	/	-5.72	/	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

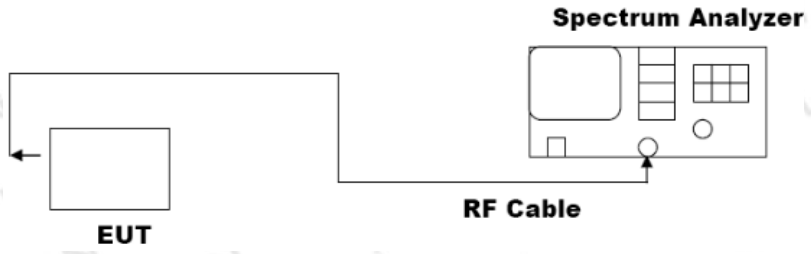
Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.33	-5.65	51.68	74	-22.32	PK
2483.5	/	-5.65	/	54	/	AV
2500	56.82	-5.72	51.1	74	-22.9	PK
2500	/	-5.72	/	54	/	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note:

1. Since the peak value is less than the average limit, the average value does not reflected in the report.

6 20dB Bandwidth

6.1 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



6.2 MEASUREMENT EQUIPMENT USED

Refer to Section 2.6.

6.3 TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 30 kHz. Set the Video bandwidth (VBW) = 100 kHz. In order to make an accurate measurement.
4. For 20dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
5. Measure and record the results in the test report.

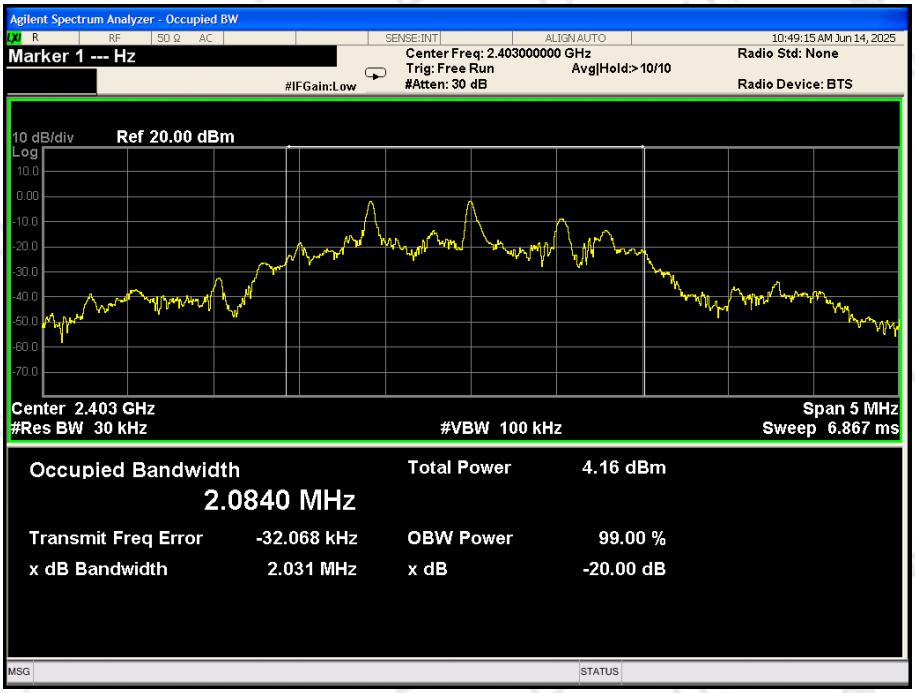
6.4 TEST RESULT

PASS

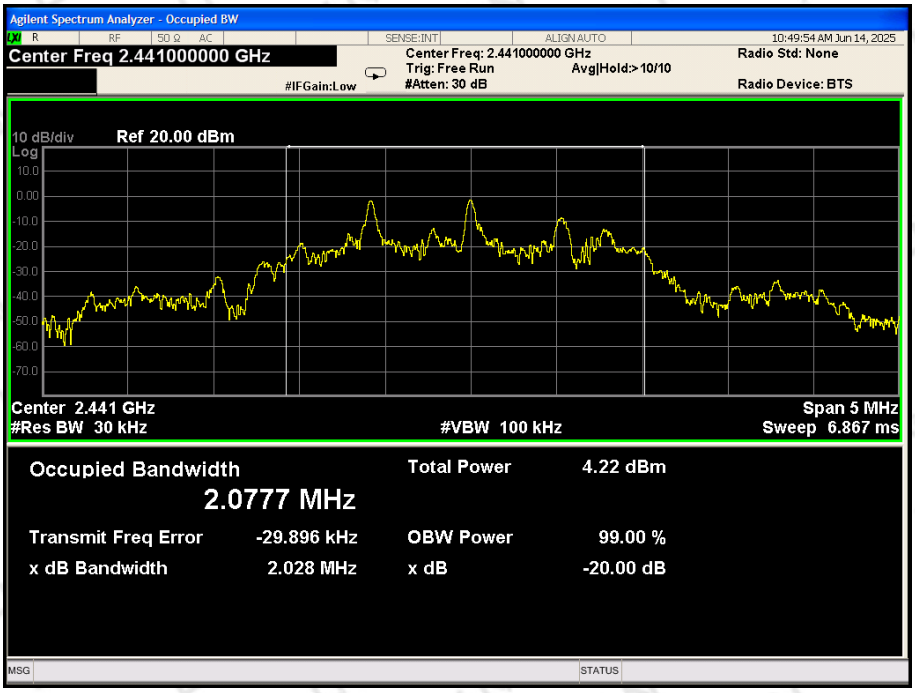
GFSK Modulation:

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result
CH01	2403	2.031	PASS
CH09	2441	2.028	PASS
CH16	2479	2.030	PASS

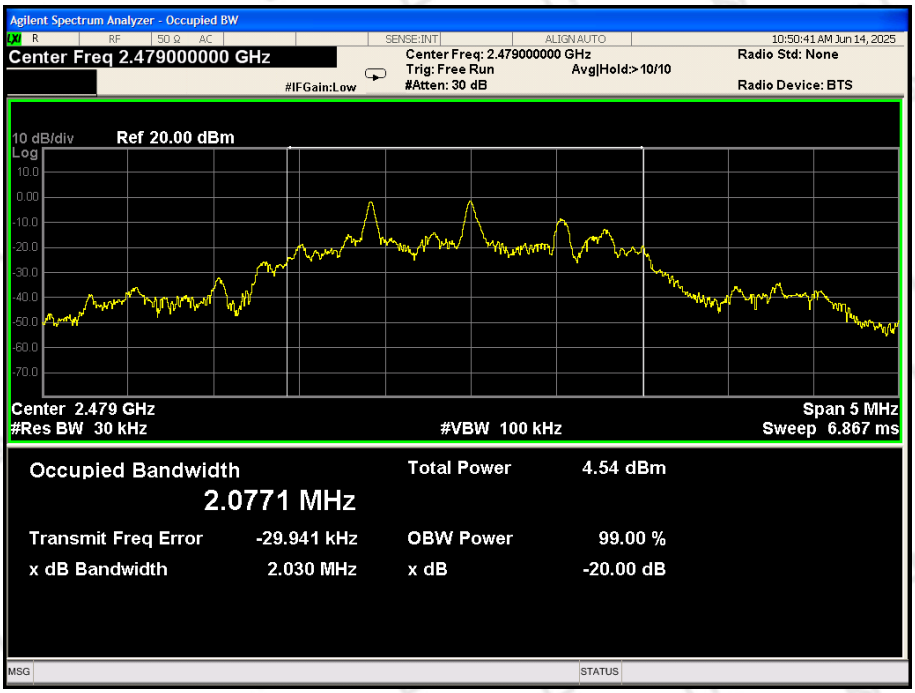
CH01: 2403MHz



CH09: 2441MHz



CH16: 2479MHz

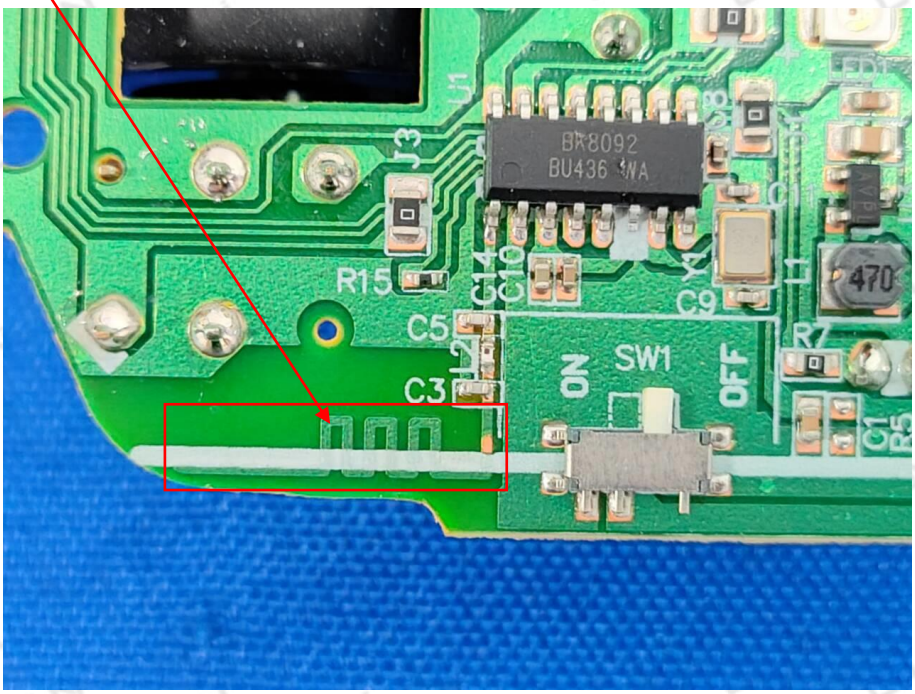


7 ANTENNA REQUIREMENT

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.

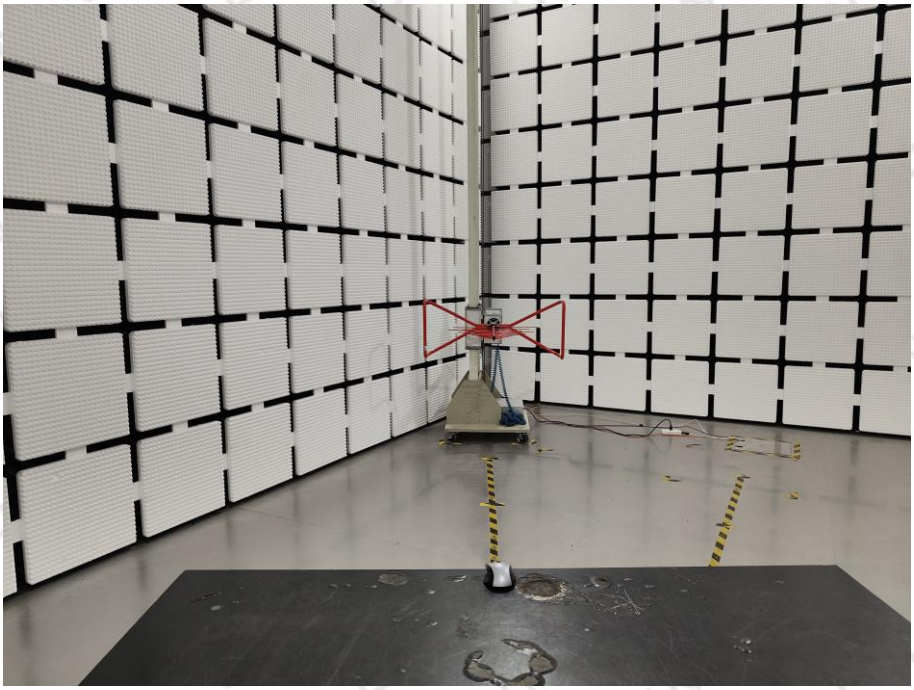
Antenna Conncted Construction
The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is -1.66dBi.

ANTENNA:

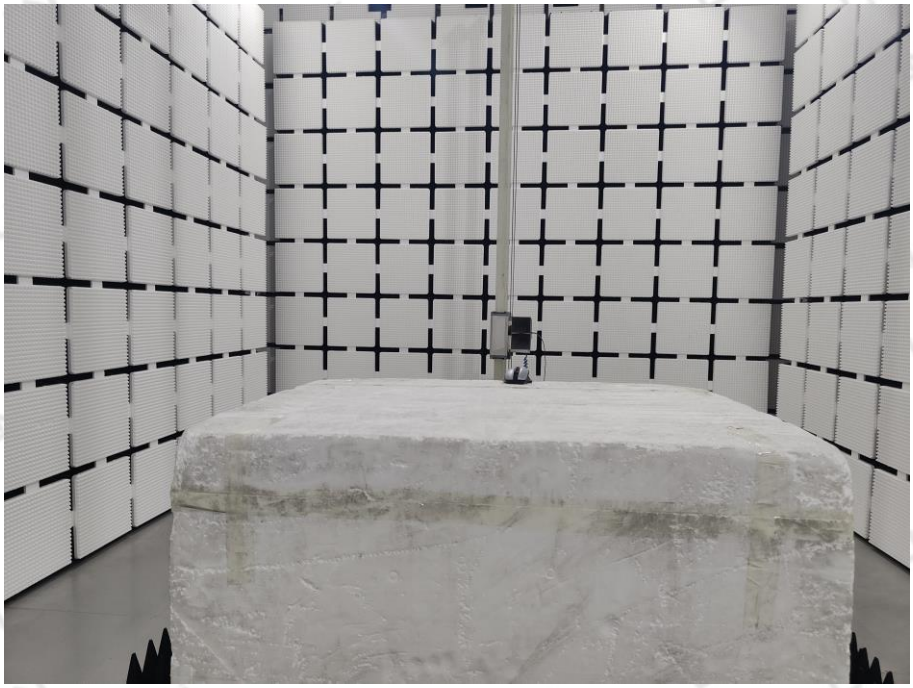


8 PHOTO OF TEST

RADIATED EMISSION



30MHz-1000MHz



Above 1GHz

RF CONDUCTED

End of Report