

**TEST REPORT****Article 2 paragraph 1 item 19-2-2**Compiled by:
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(Manager)**Product Name**.....: Controller Receiver**Model/Type reference**.....: GameSir-G7 Pro Dongle**List Model(s)**.....: GameSir-T7 Pro Dongle**Trade Mark**.....: GameSir**Applicant's name**.....: **GuangZhou Chicken Run Network Technology Co.,Ltd.****Address of applicant**.....: Room 1001&1003, No. 19, Yard 2, Yuancun West Street, Tianhe District, Guangzhou, China**Manufacturer's name**.....: **GuangZhou Chicken Run Network Technology Co.,Ltd.****Address of Manufacturer**.....: Room 1001&1003, No. 19, Yard 2, Yuancun West Street, Tianhe District, Guangzhou, China**Representative Laboratory Name**.....: **Shenzhen Yacetong Testing Technology Services Co., Ltd****Address**.....: 803, Building 1, COFCO Chuangzhi Factory, Xingdong Community, Xinan Street, Baoan District, Shenzhen, Guangdong, China**Test specification**.....:**Standard**.....: **Ordinance Article 2 paragraph 1 item (19-2-2)****TRF Originator**.....: Shenzhen Yacetong Testing Technology Services Co., Ltd**Date of Receipt**.....: September 1, 2026**Date of Test Date**.....: September 1, 2026~September 11, 2026**Data of Issue**.....: September 11, 2026**Result**.....: Positive**Shenzhen Yacetong Testing Technology Services Co., Ltd. All rights reserved.**

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1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[MIC Notice No.88 Appendix No.43](#)

1.2. Test Description

Test Item	Standard	Test Requirement	Result
Frequency Error	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	Pass
Antenna Output Power and Output Power Tolerance	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	Pass
Occupied Bandwidth and Spread spectrum bandwidth	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	Pass
Unwanted Emission Strength	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	Pass
Secondary Radiated Emission Strength	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	Pass
Dwell time	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	N/A
Interference Prevention Function	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	Pass
Transmission Antenna Gain (EIRP Antenna Power)	Article 2-1, Item 19 MIC Notice, No.88 Appendix No.43	Article 2-1, Item 19-2-2	N/A

Notes:

NIA means not applicable. Article 2 paragraph 1 item 19-2



1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen Yacetong Testing Technology Services Co., Ltd.
803, Building 1, COFCO Chuangzhi Factory, Xingdong Community, Xinan Street, Baoan District,
Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	$\pm 1.62 \times 10^{-6}$
Total RF power, conducted	$\pm 0.8\text{dB}$
Spurious emissions, conducted	$\pm 0.8\text{dB}$
DC and low frequency voltages	$\pm 0.05\%$
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$

1.5. Test Conditions

Temperature:	24.5°C
Pressure:	55%
Relative Humidity:	101kPa

2. GENERAL INFORMATION

2.1. Environmental conditions

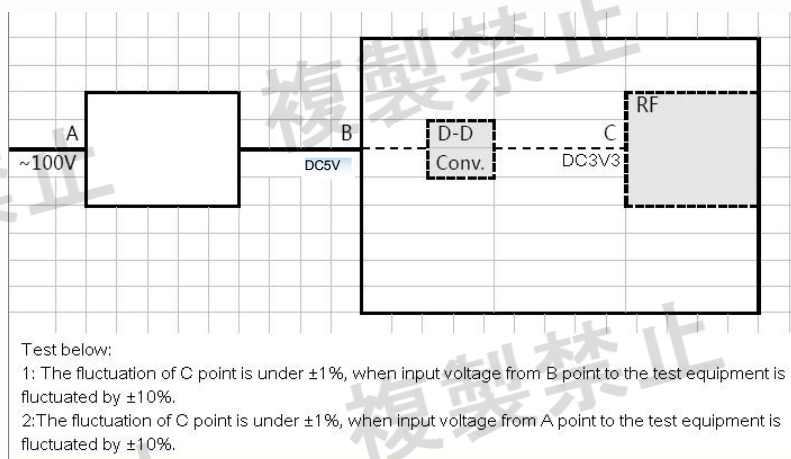
During the measurement the environmental conditions were within the listed ranges:

Power supply:

INPUT: DC 5V

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$).

So, all measurements were conducted at only rated voltage DC5V



The measurement result of the voltage fluctuation at RF circuit when 5Vdc +/- 10%

Input DC 5V	Input DC3.7V	DC 3.3V
5.5V	4.07V	3.3V
5V	3.7V	3.3V
4.5V	3.33V	3.3V

Temperature:

5.0 -35.0 °C

Humidity:

45-85 % RH

Atmospheric Pressure:

1000 -1010 mbar

Test frequencies:

If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.



2.2. General Description of EUT

Product Name:	Controller Receiver
Model/Type reference:	GameSir-G7 Pro Dongle
Listed Model(s):	GameSir-T7 Pro Dongle
Model differences:	All the models are electrical identical including the same software parameter and hardware design, same mechanical structure and design, the only difference is the model named different.
Power supply:	DC 5V form USB port
Adapter information:	N/A
Hardware version:	V1.1
Software version:	V1.0
Bluetooth BLE	
Supported type:	BT 5.0
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	PCB antenna
Antenna gain:	0 dBi



2.3. Description of Test Modes

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. RX and TX modes click the RX or TX buttons on the software. See the test software manual for detailed settings.

Operation Frequency List BT 5.0 BLE

Channel	Frequency (MHz)
00	2402
01	2404
02	2406
⋮	⋮
19	2440
⋮	⋮
37	2480
38	2478
39	2480

Note: Test performed at the lowest/middle/highest frequencies selected in the list above for EUT supported while working on specified mode.

Test software: FCC_assist_1.0.2.2

Test mode	Power level	Rating power mW	Transmission rate Mbps
BLE GFSK	7	2.5	1



2.4. Measurement Instruments List

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date	Calibration unit
1	Spectrum Analyzer	Agilent	N9020A	MY112299	2026.03.21	2027.03.20	CCIC
2	RF Cable 1#	FUJIKURA	5D-2W	01	2026.03.21	2027.03.20	CCIC
3	DC power supply	ANS	JS122D	00415	2026.03.21	2027.03.20	CCIC
4	Power meter	EVERFINE	PF9802B	P185825CD1 371134	2026.03.21	2027.03.20	CCIC
5	Digital Multimeter	Fluke	15B+	17091822	2026.03.21	2027.03.20	CCIC
6	Digital Oscilloscope	Tektronix	TDS1012B	S007	2026.03.21	2027.03.20	CCIC

Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".



3. Test conditions and Results

3.1. Frequency Error

LIMIT

± 50ppm

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: non-modulation

Spectrum Condition:

Frequency: test frequency

Span: 1 MHz

RBW: 10 KHz

VBW: 10 KHz

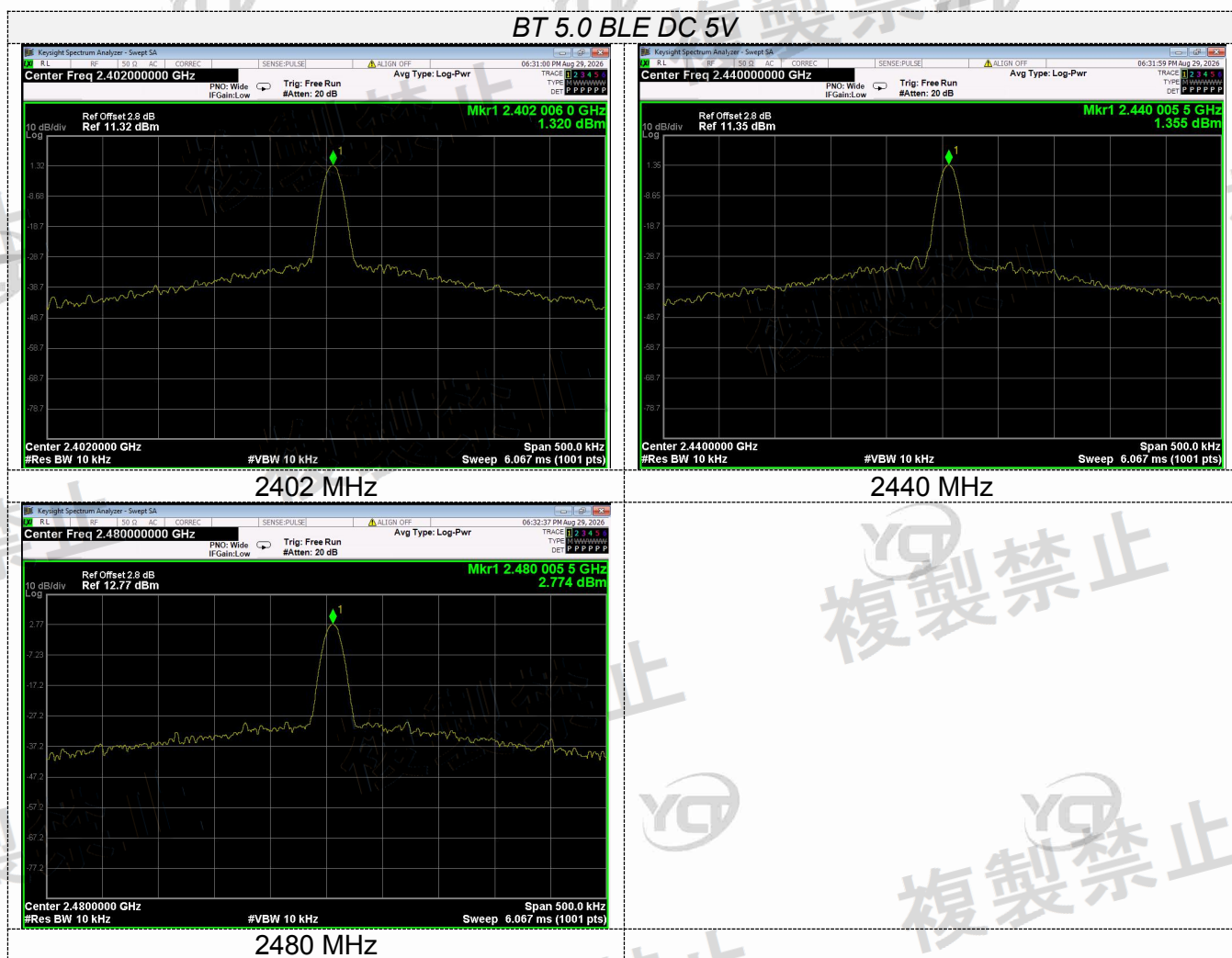
Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

**TEST RESULTS**

BT 5.0						
Test voltage (V)	Frequency (MHz)	Read (MHz)	Deviation (MHz)	Tolerance (ppm)	Limit (ppm)	Result
DC 5V	2402.00	2402.006	0.006	2.50	± 50.00	Pass
	2440.00	2440.006	0.006	2.46		
	2480.00	2480.006	0.006	2.42		





3.2. Antenna Output Power and Output Power Tolerance

LIMIT

- $\leq 3 \text{ mW /MHz}$ (FHSS from 2402-2480 MHz)
- $\leq 10 \text{ mW/MHz}$ (OFDM, DSSS from 2400-2483.5 MHz)
- $\leq 10 \text{ mW}$ (other from 2400-2483.5 MHz)

The Output Power Tolerance must be within +20%, -80%.

E.i.r.p:

- $\leq 22.14\text{dBm/MHz}$ (OFDM,DS form 2400-2483.5MHz)

Note: E.I.R.P will not be applied to the transmission antenna which has a gain of 2.14dBi or less.

TEST CONFIGURATION



TEST RESULTS

DC 5V								
Mode	Channel (MHz)	Output power(dBm)	Output power (mW)	Limit (mW)	Rated output power (mW)	Tolerance (%)	Limit	Result
BT 5.0 BLE	2402	3.542	2.26	10	2.5	-9.58%	-80%~20%	Pass
	2440	3.234	2.11	10	2.5	-15.77%		
	2480	3.641	2.31	10	2.5	-7.50%		



3.3. OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH

LIMIT

- Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM $\leq$ 38 MHz, DS $\leq$ 26 MHz; Others $\leq$ 26 MHz
- Spread Bandwidth: $\geq$ 500 kHz(FH,DS)
- Spread factor $>$ 5.

TEST CONFIGURATION

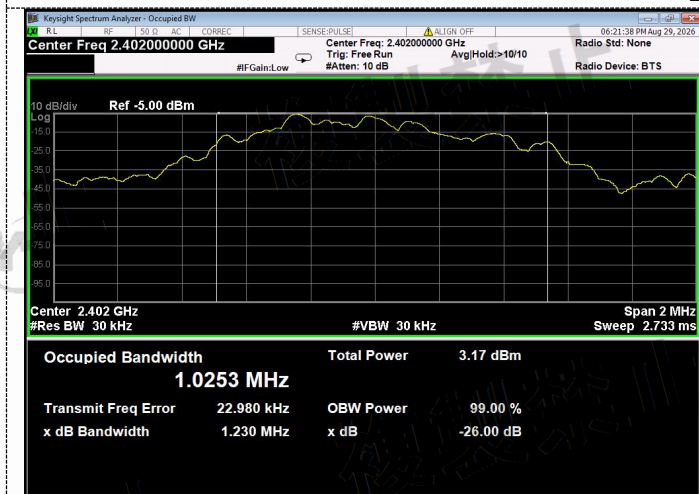
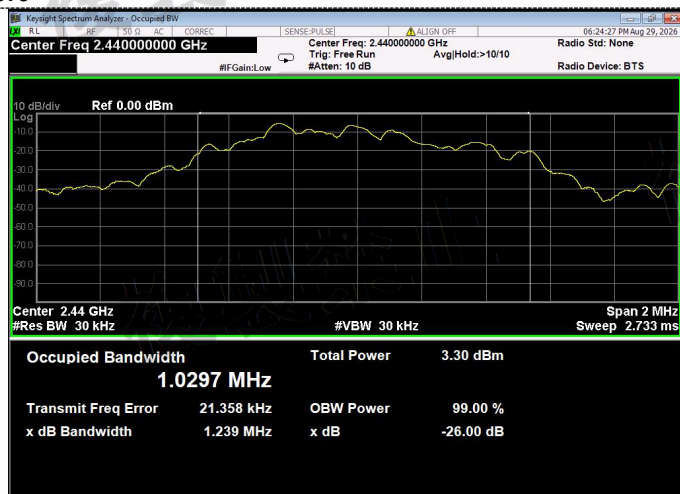
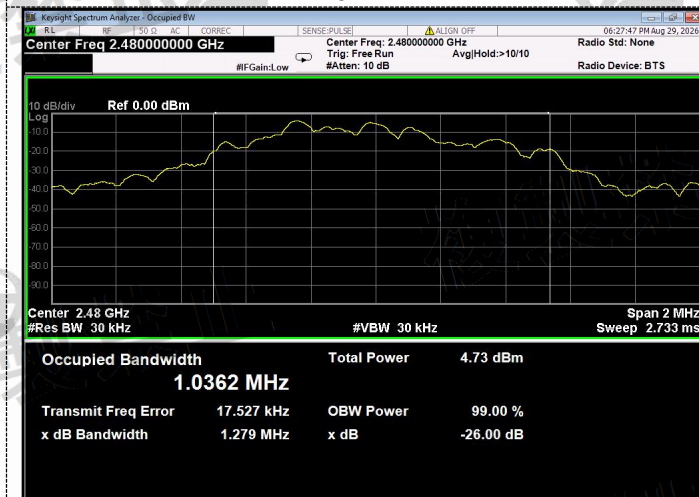


TEST PROCEDURE

1. Setting of SA is following as follow:
RBW: 30 kHz
VB: 30 kHz
Sweep time: Auto
Sweep Mode: Continuous sweep
Detect mode: Positive peak
Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375Mbps for 2.4g

**TEST RESULTS****BT 5.0 BLE 99% BANDWIDTH**

Test Condition	Test Mode	Test Channel	Test Result[MHz]	Limit [MHz]	Verdict
TNVN	GFSK	2402	1.0253	<=26	PASS
TNVN	GFSK	2440	1.0297	<=26	PASS
TNVN	GFSK	2480	1.0362	<=26	PASS

**DC 5V
BT 5.0****2402MHz****2440MHz****2480MHz**



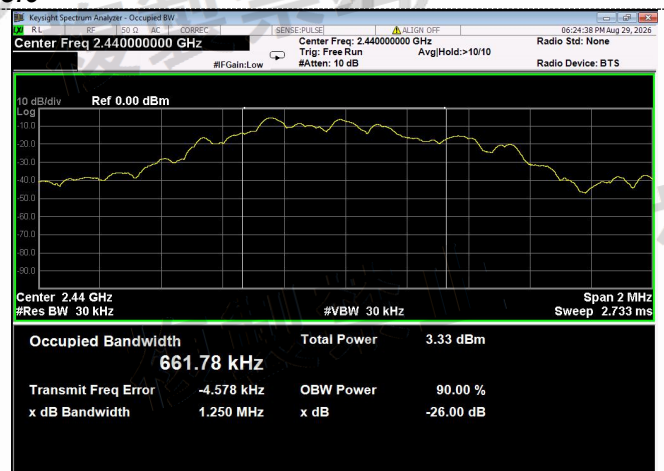
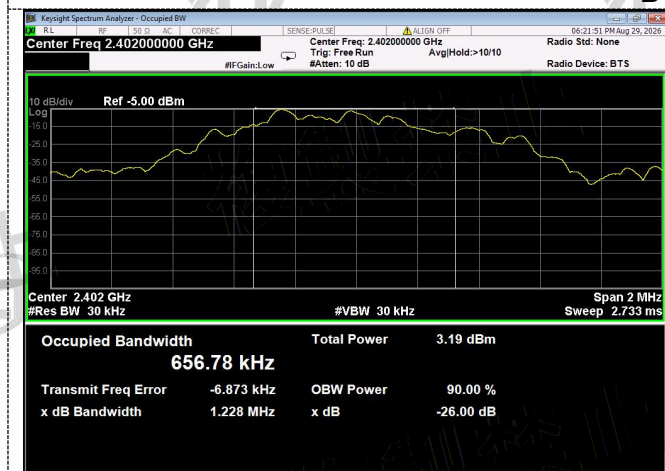
BT 5.0 BLE 90% BANDWIDTH

Test voltage (V)	Type	Channel (MHz)	Spread Bandwidth (MHz)	Spread Factor	Spread Bandwidth Limit (MHz)	Spread Factor Limit	Result
DC 5V	BT 5.0	2402	0.657	N/A	≥ 0.5	N/A	Pass
		2440	0.662				
		2480	0.666				

Note: N/A means not applicable to this modulation type.

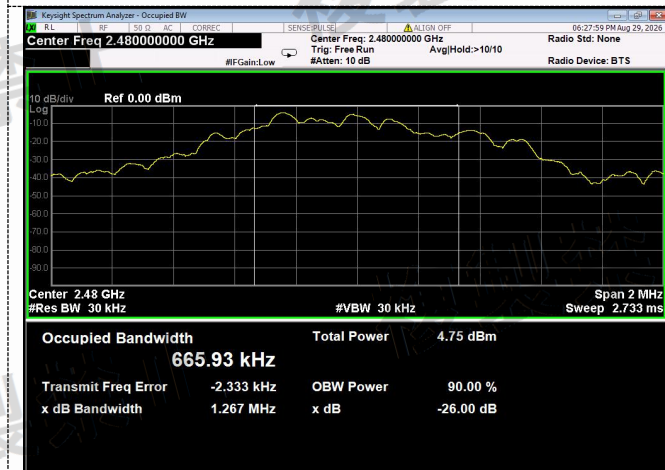
DC 5V

BT 5.0



2402MHz

2440MHz



2480MHz



3.4. Unwanted Emission Strength

LIMIT

Below 2387 MHz: 2.5 μ W/MHz or less

2387 to 2400 MHz: 25 μ W/MHz or less

2483.5 Through 2496.5 MHz: 25 μ W/MHz or less

Over 2496.5 MHz: 2.5 μ W/MHz or less

Test Freq. Range	Limit μ W/MHz	dBm/MHz
30MHz $\leq$ f $\leq$ 1000MHz	2.5 μ W/MHz or less	-36dBm/kHz
1000MHz<f $\leq$ 2387MHz	2.5 μ W/MHz or less	-26dBm/MHz
2387MHz<f $\leq$ 2400MHz	25 μ W/MHz or less	-16dBm/MHz
2483.5MHz $\leq$ f<2496.5MHz	25 μ W/MHz or less	-16dBm/MHz
2496.5MHz $\leq$ f<12500MHz	2.5 μ W/MHz or less	-26dBm/MHz

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

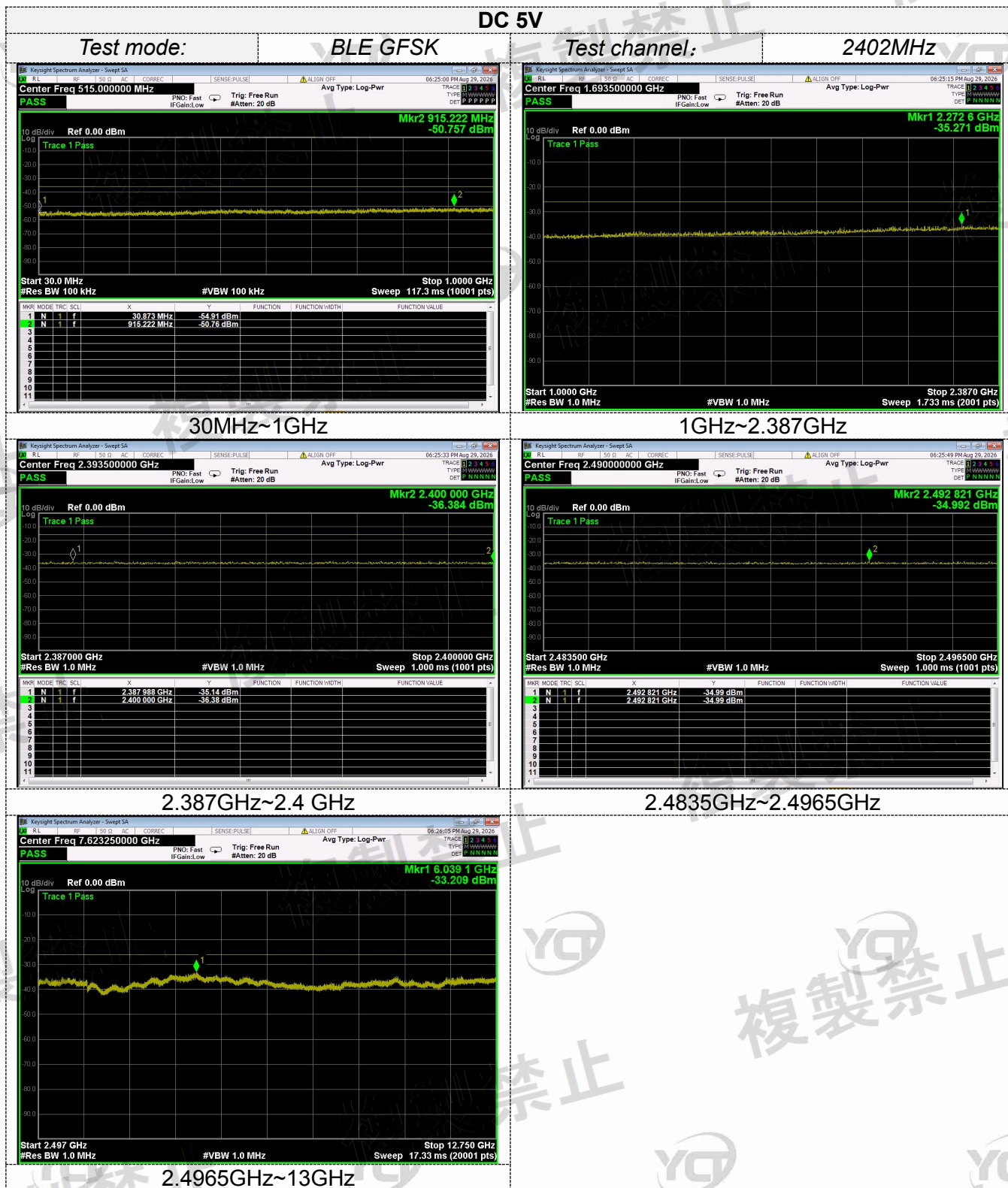
RBW: 100KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

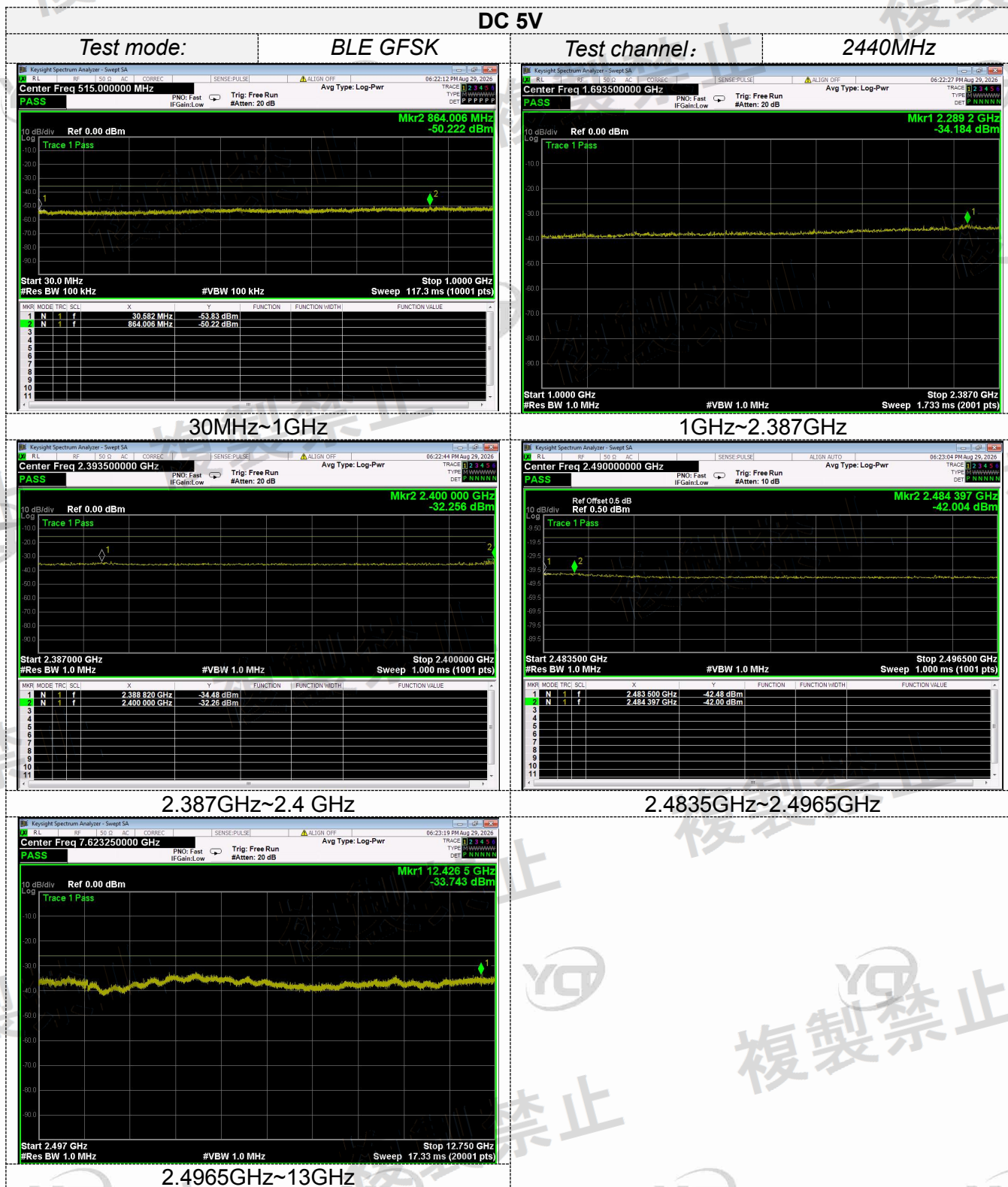
VBW: 100KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

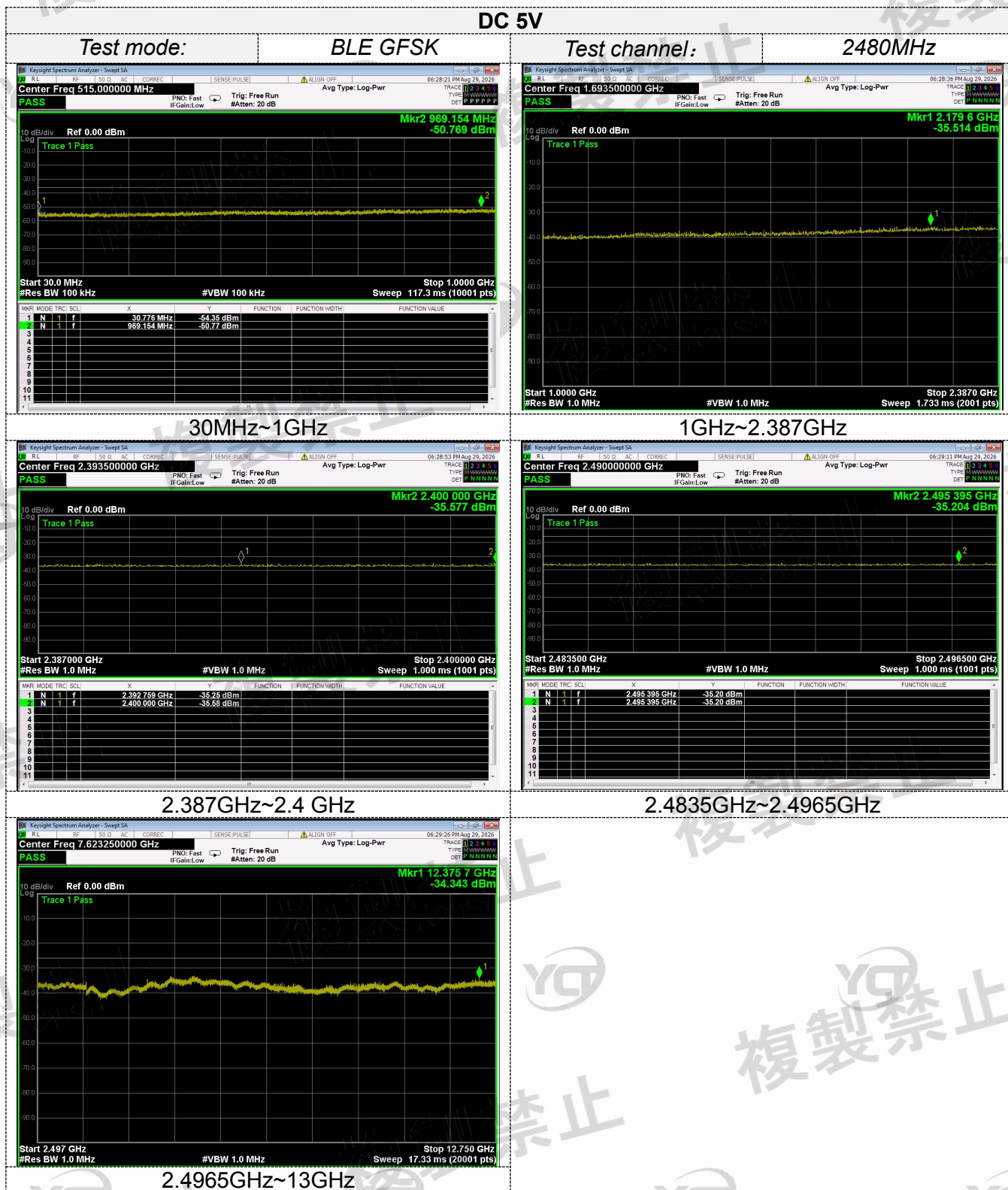
Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

**TEST RESULTS**







3.5. Secondary Radiated Emission Strength

LIMIT

Below 1GHz: 4.0nW or less

Above 1GHz: 20nW or less

Test Freq. Range	Limit nW	Limit dBm
$30\text{MHz} \leq f \leq 1000\text{MHz}$	4.0	-54
$1000\text{MHz} < f \leq 13000\text{MHz}$	20	-47

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

RBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

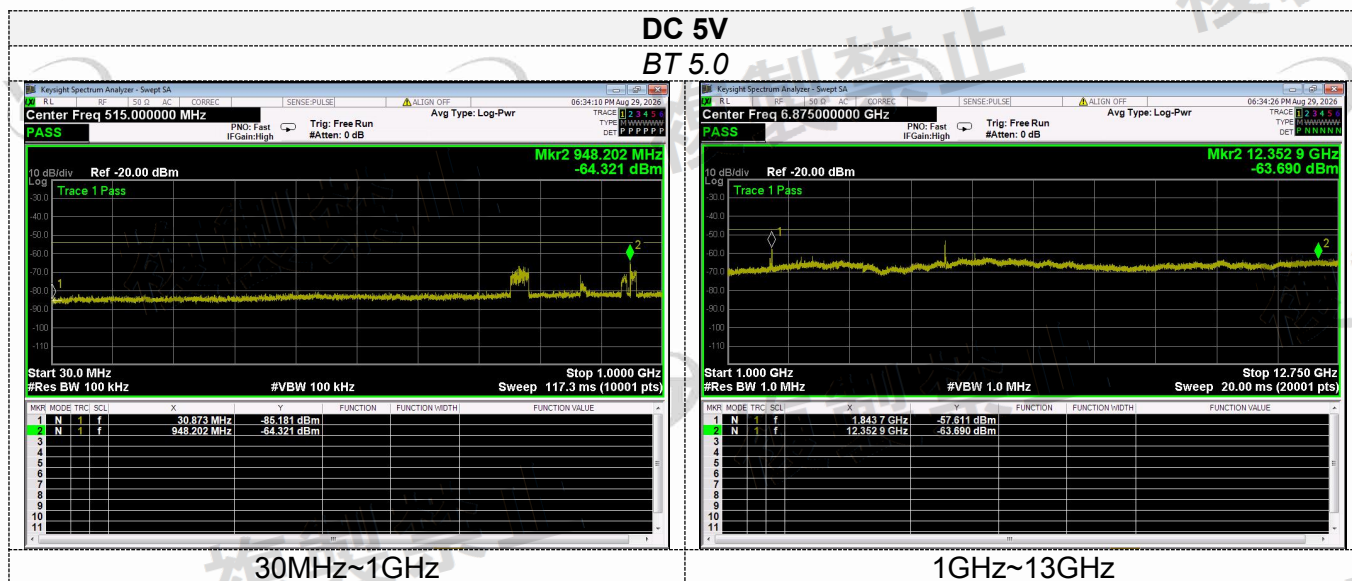
VBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS



Modulation Type	Test mode	Test Freq. Range	Max. test value dBm	Limit dBm	Result
GFSK	RX	$30\text{MHz} \leq f \leq 1000\text{MHz}$	-64.321	-54	PASS
		$1000\text{MHz} < f \leq 13000\text{MHz}$	-63.690	-47	PASS

3.6. Transmission Antenna Gain(EIRP Antenna Power Measurement)

3.6.1 Limit

Item	Limits
EIRP Power Density	$\leq 16.91\text{dBm/MHz}$ (FH form 2427 - 2470.75 MHz) $\leq 22.14\text{dBm/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 22.14\text{dBm}$ (Other from 2400~2483.5MHz)
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

3.6.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.6.3 TEST PROCEDURES

Attenuation of the attenuator shall be set to provide an optimum input level to the spectrum analyzer.

- Set the spectrum analyzer as follows for searching the frequency that outputs the maximum antenna power:

Center frequency:	Test frequency
Frequency sweep width:	Approximately twice of the occupied bandwidth
Resolution bandwidth:	1MHz
Video bandwidth:	Approximately three times of the resolution bandwidth
Y-axis scale:	10dB/Div
Sweep time:	Minimum time to ensure the measuring accuracy (In the case of burst wave, one burst shall be included per data point.)
Trigger condition:	Free run
Data points:	400 points or more
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

- When the trace is complete, find the peak value of the power envelope and record.
In the case of bandwith above RBW, connect to power meter directly.
- Calculate antenna power density by the formula below $P_T(\text{mW/MHz}) = 10^{\text{Conducted power density(dBm)}/10}$
- EIRP = Antenna Power + Antenna Gain

3.6.4 TEST SETUP LAYOUT

For EUT radiation measurement



3.6.5 TEST DEVIATION

There is no deviation with the original standard.

3.6.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.6.7 RESULTS OF TRANSMISSION ANTENNA GAIN

N/A

3.7. Construction protection method

Requirement

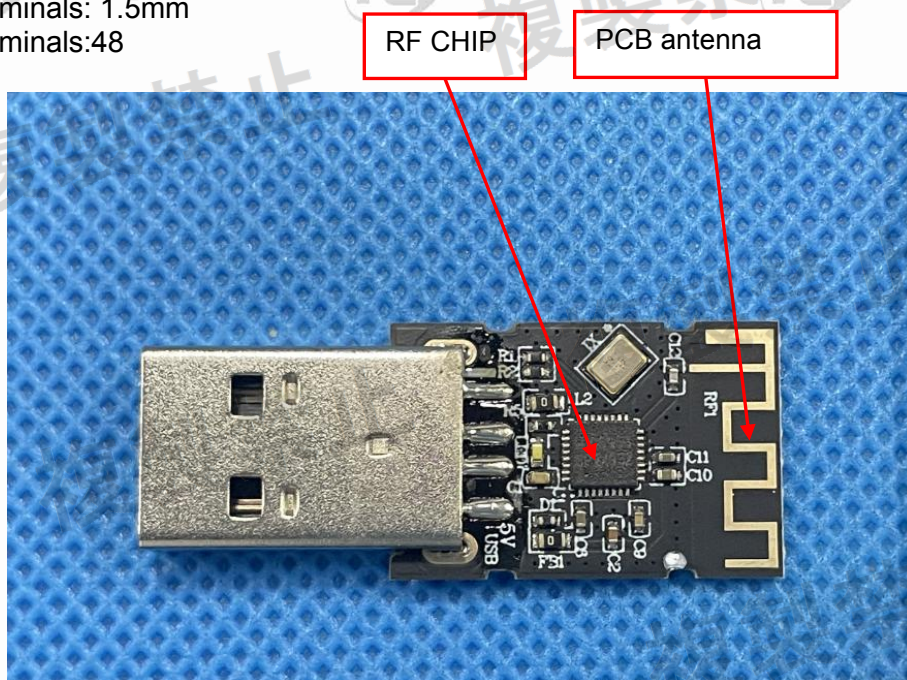
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

Confirmation method

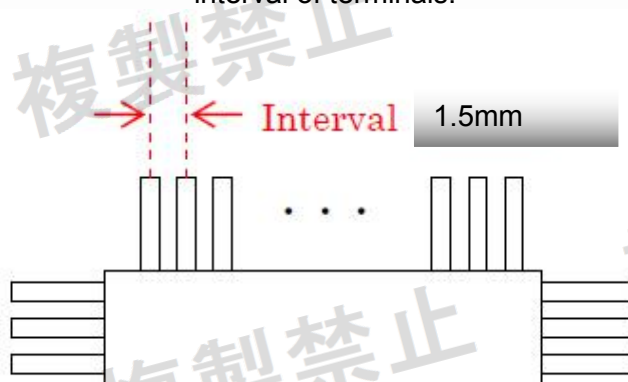
We apply the product for Japan RF certification. All high-frequency section and modulation section packet in one IC ,and The RF IC is Soldering BT RF IC in PCB , end user can not open it easily.Please refer to following for photo for details.

The interval of terminals: 1.5mm

Number of the terminals:48



interval of terminals:



3.8 Interference Prevention Function

Requirement

Clarify, the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

Interference Prevention Function Confirm

A communication link was made where the ID code is correct (Identical).

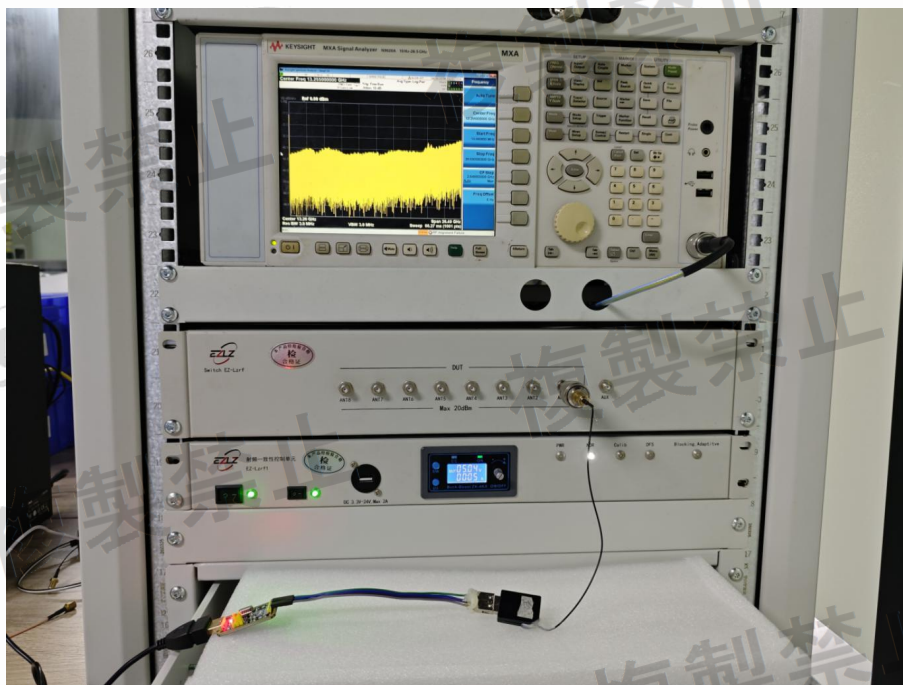
TEST PROCEDURE

1. Connect the EUT in network
2. Open the software
3. We can get the information as follows:
BT MAC: 00:5e:f3:00:2:c6

TEST RESULTS



4. Test Setup Photos of the EUT



5. External and Internal Photos of the EUT

External Photos of EUT

Photo 1

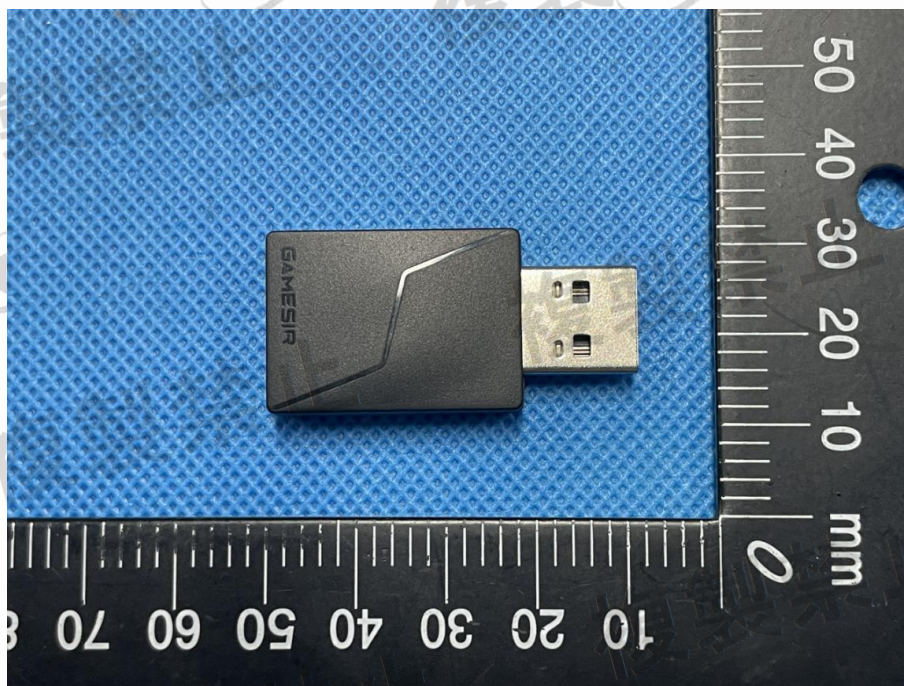


Photo 2

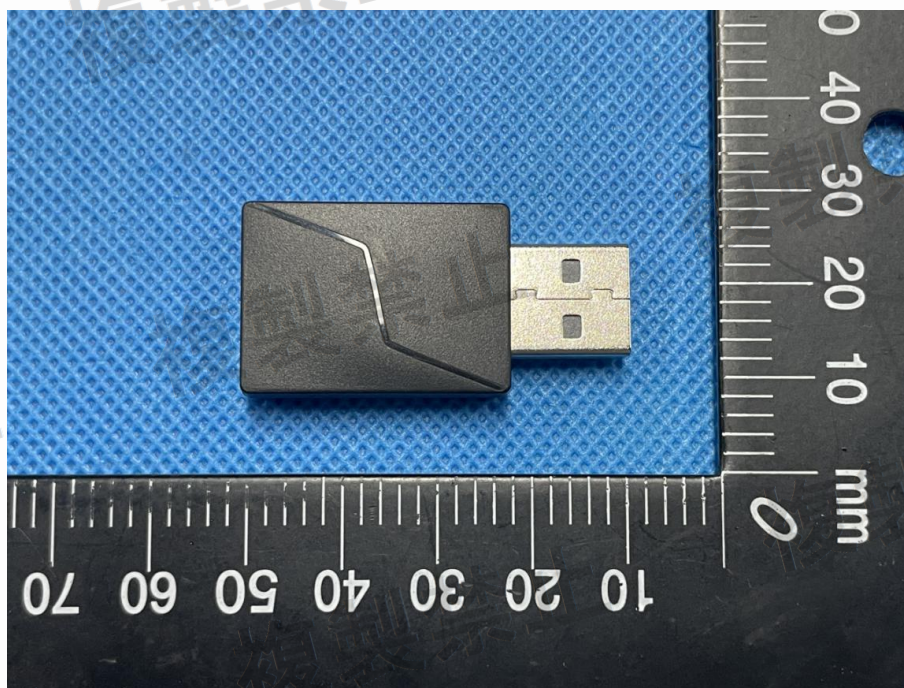


Photo 3

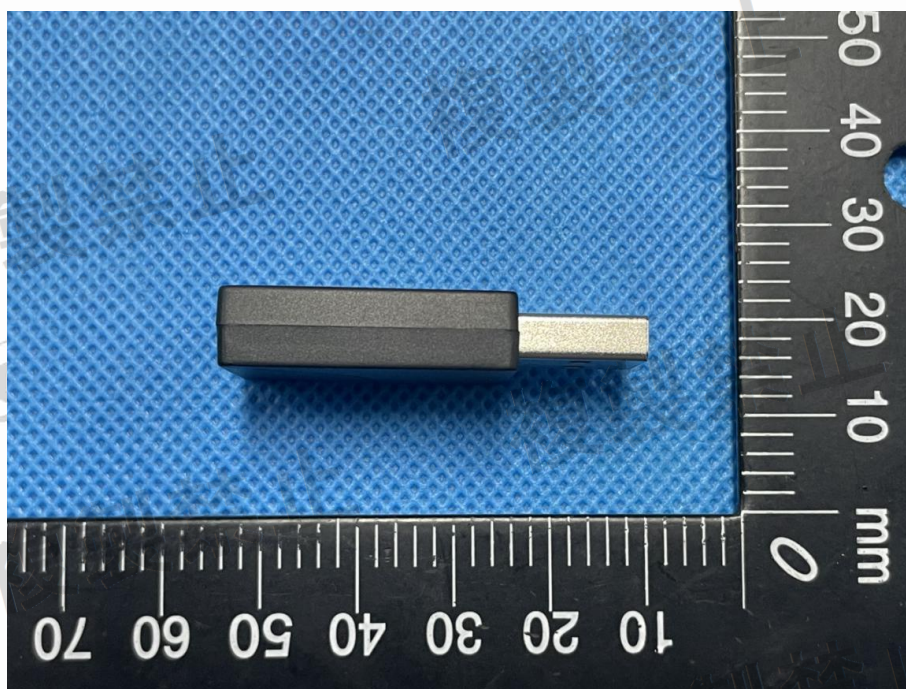


Photo 4

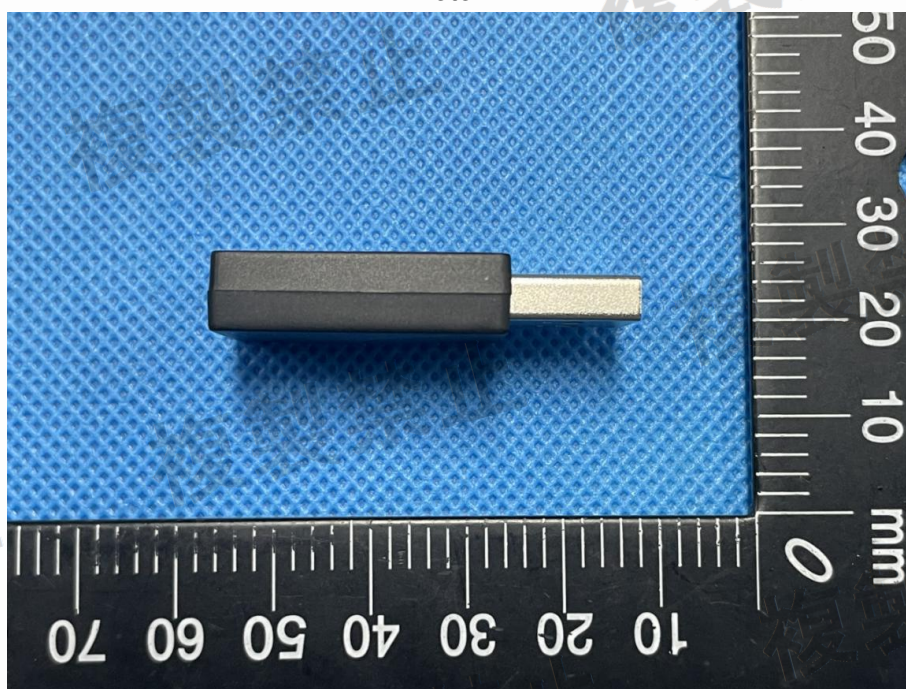


Photo 5

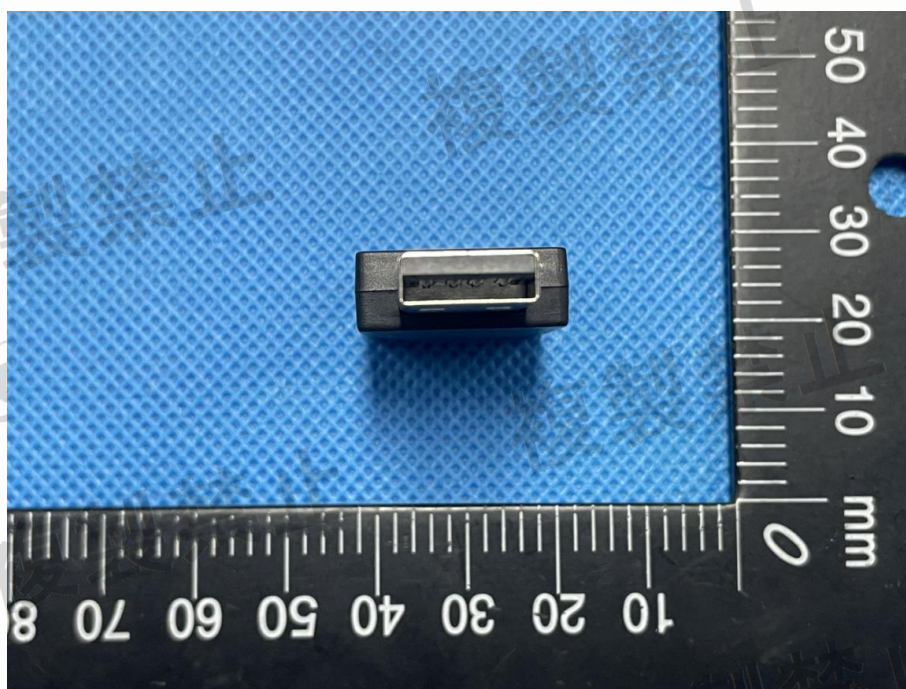


Photo 6

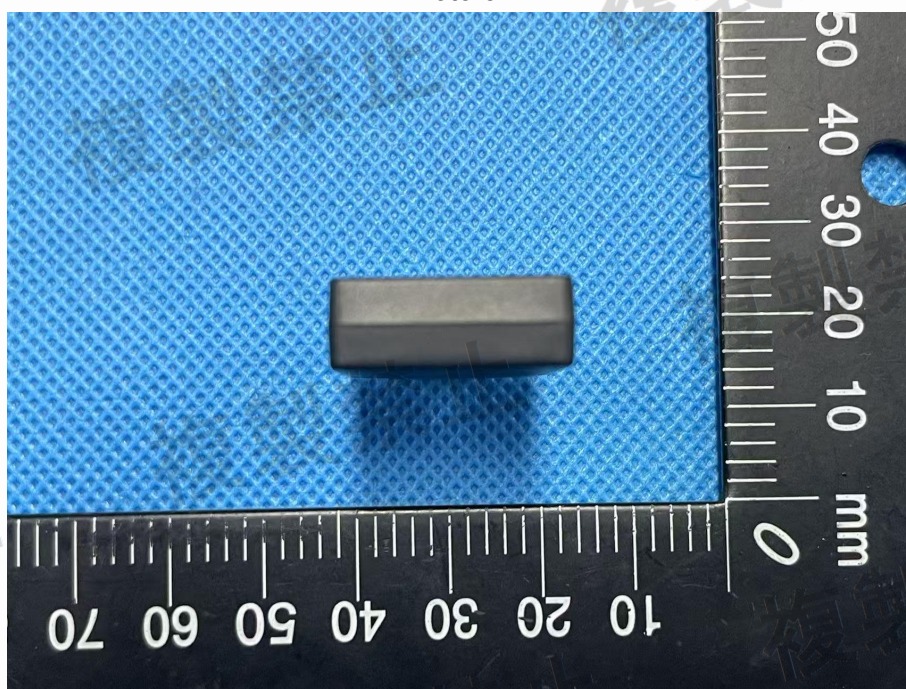


Photo 7

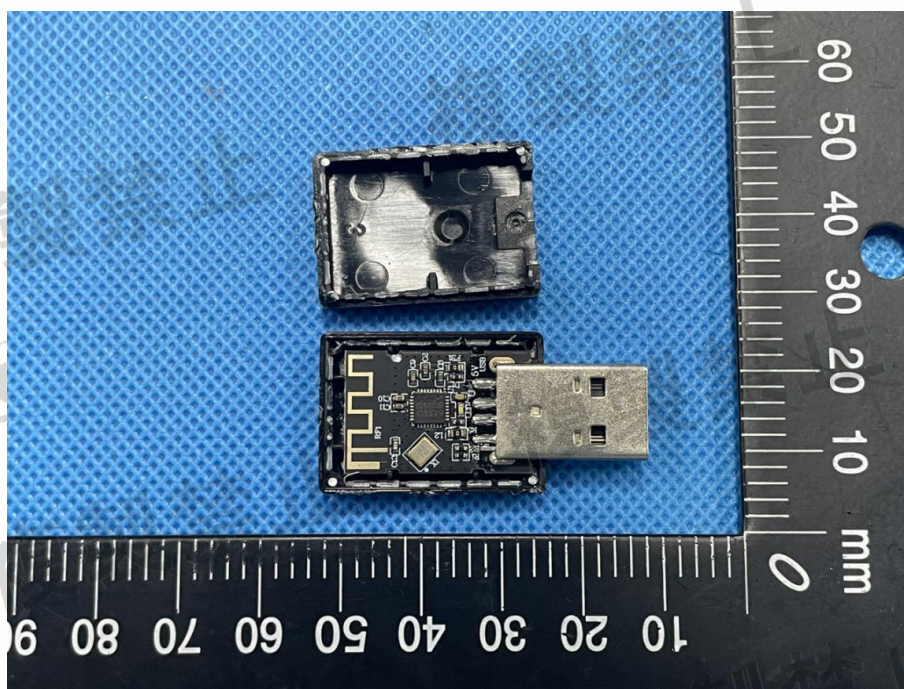


Photo 8



Photo 9



*****THE END*****