



TEST REPORT

Report Reference No.: EP2510002M01

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Date of Receipt of EUT: 2025-11-26

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Applicant's name: Zhuhai Xprinter Electronics Technology Co., Ltd.

Address: 5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial
Zone, Xiangzhou District, Zhuhai City, Guangdong Province,
P.R.China

Manufacturer's name: Zhuhai Xprinter Electronics Technology Co., Ltd.

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TABLE OF CONTENTS

1 SUMMARY	5
1.1 TEST STANDARDS	5
1.1 TEST DESCRIPTION	5
1.2 TEST FACILITY	6
1.2.1 ADDRESS OF THE TEST LABORATORY	6
1.2 MEASUREMENT UNCERTAINTY	6
2 ENVIRONMENTAL CONDITIONS	7
2.1 ENVIRONMENTAL CONDITIONS	7
1.3 GENERAL DESCRIPTION OF EUT	8
1.4 DESCRIPTION OF TEST MODES	9
1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	10
1.6 MEASUREMENT INSTRUMENTS LIST	10
2 TEST CONDITIONS AND RESULTS	11
2.2 FREQUENCY ERROR	11
2.2.1 LIMIT	11
2.2.2 TEST CONFIGURATION	11
2.2.3 TEST PROCEDURE	11
2.2.4 TEST RESULTS	12
2.3 ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE	13
2.3.1 LIMIT	13
2.3.2 TEST CONFIGURATION	13
2.3.3 TEST RESULTS	13
2.4 OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH	14
2.4.1 LIMIT	14
2.4.2 TEST CONFIGURATION	14
2.4.3 TEST PROCEDURE	14
2.4.4 TEST RESULTS	14
2.5 DWELL TIME	16
2.5.1 LIMIT	16
2.5.2 TEST PROCEDURES	16
2.5.3 TEST SETUP LAYOUT	16
2.5.4 TEST RESULT	17
2.6 UNWANTED EMISSION STRENGTH	21
2.6.1 LIMIT	21
2.6.2 TEST CONFIGURATION	21
2.6.3 TEST PROCEDURE	21
2.6.4 TEST RESULTS	22
2.7 SECONDARY RADIATED EMISSION STRENGTH	26
2.7.1 LIMIT	26
2.7.2 TEST CONFIGURATION	26
2.7.3 TEST PROCEDURE	26
2.7.4 TEST RESULTS	27
2.8 TRANSMISSION ANTENNA GAIN(EIRP ANTENNA POWER MEASUREMENT)	29
2.8.1 LIMIT	29
2.8.2 MEASURING INSTRUMENTS AND SETTING	29
2.8.3 TEST PROCEDURES	29
2.8.4 TEST SETUP LAYOUT	30
2.8.5 TEST DEVIATION	30
2.8.6 EUT OPERATION DURING TEST	30
2.8.7 RESULTS OF TRANSMISSION ANTENNA GAIN	30
2.9 CONSTRUCTION PROTECTION METHOD	31
2.9.1 Requirement	31
2.9.2 Confirmation method	31
2.10 INTERFERENCE PREVENTION FUNCTION	32

2.10.1 For EUT communication link measurement.....	32
2.10.2 Requirement	32
2.10.3 Interference Prevention FunctionConfirm	32
2.10.4 TEST RESULTS	32

TEST RESULT

Equipment under Test : Thermal Label Printer

Test Model: HP6-C

Series Model: /

Trade Mark: /

Applicant : Zhuhai Xprinter Electronics Technology Co., Ltd.

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Test result	Pass
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*In the configuration tested, the EUT complied with the standards specified page 4.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Note: for more details, please refer to the user's manual of the EUT.

1 SUMMARY

1.1 TEST STANDARDS

The tests were performed according to following

standards:

MIC Notice No.88 Appendix No.43

1.1 TEST DESCRIPTION

Test Item	TEST REQUIREMENT	Result
Frequency Error	III	Pass
Antenna Output Power and Output Power Tolerance	VI	Pass
Occupied Bandwidth	IV	Pass
Spread spectrum bandwidth	IV	Pass
Unwanted Emission Strength	V	Pass
Secondary Radiated Emission Strength	VII	Pass
Transmission Antenna Gain (EIRP Antenna Power)	VIII	Pass
Dwell time	XI	Pass
Interference Prevention Function	X	Pass

Note:

(1) Spread spectrum bandwidth Only for reported.

1.2 TEST FACILITY

1.2.1 ADDRESS OF THE TEST LABORATORY

Dongguan Pubiao Testing Technology Co., Ltd
Room 101, Building 1, No.30, Minghua Road, Shijie, Shijie Town, Dongguan, Guangdong, China.

1.2 MEASUREMENT UNCERTAINTY

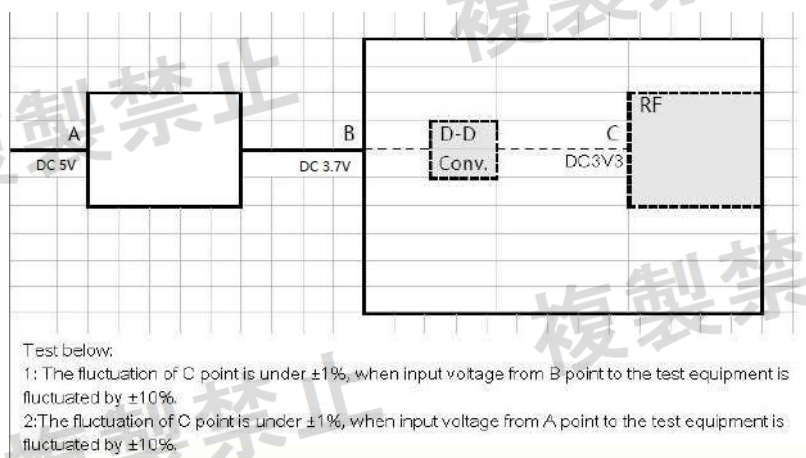
For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case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

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	$\pm 5\%$
Dwell time	$\pm 2\%$

2 ENVIRONMENTAL CONDITIONS

2.1 ENVIRONMENTAL CONDITIONS

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



The module was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input DC Power(V)	3.7	4.07	3.33
RF Chip Input DC Power(V)	3.300	3.310	3.290
Voltage Variation (%)	/	+0.1	-0.1

Note: 1. Voltage Variation (%)

= (RF chip Input high or Low Voltage - RF chip Input Normal Voltage) / RF chip Input Normal Voltage * 100.

2. RF chip Input DC power fluctuation is verified at the power input PIN of the RF chip.

When the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, the output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than $\pm 1\%$, and the DC power fluctuation at the power input PIN of the RF chip is equal to or less than $\pm 1\%$. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

Temperature: 22.0 °C
Humidity: 48.0 % RH
Atmospheric Pressure: 101.1 mbar

1.3 GENERAL DESCRIPTION OF EUT

Product Name:	Thermal Label Printer
Brand Name:	/
Test Model:	HP6-C
Series Model:	/
Model difference:	/
Power Rating:	Input: 5V $\overline{\text{---}}$ 1A or 5V $\overline{\text{---}}$ 2A Battery Capacity: 3.7VDC 1000mAh
Hardware version:	MB2SP-HP6-UB0
Software version:	V44.30
Operation Frequency:	2402MHz~2480MHz
Supported type:	Version V5.4
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	79
Channel separation:	1 MHz
Antenna type:	PCB Antenna
Antenna gain:	-0.42 dBi

1.4 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.

Test software: FCC_assist			
Test mode	Power level	Rating power mW/MHz	Transmission rate Mbps
GFSK	5	0.1	1

Operation Frequency List:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	40	2442
01	2403	41	2443
02	2404	42	2444
03	2405	43	2445
04	2406	44	2446
05	2407	45	2447
06	2408	46	2448
07	2409	47	2449
08	2410	48	2450
09	2411	49	2451
10	2412	50	2452
11	2413	51	2453
12	2414	52	2454
13	2415	53	2455
14	2416	54	2456
15	2417	55	2457
16	2418	56	2458
17	2419	57	2459
18	2420	58	2460
19	2421	59	2461
20	2422	60	2462
21	2423	61	2463
22	2424	62	2464
23	2425	63	2465
24	2426	64	2466
25	2427	65	2467
26	2428	66	2468
27	2429	67	2469
28	2430	68	2470
29	2431	69	2471
30	2432	70	2472
31	2433	71	2473
32	2434	72	2474
33	2435	73	2475
34	2436	74	2476
35	2437	75	2477
36	2438	76	2478
37	2439	77	2479

38	2440	78	2480
39	2441		

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

1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial Number	Note
1	Fixed-frequency auxiliary board	/	FT232	/	/
2	Notebook	HUAWEI	NbDE-WDH9	WCTPM22406001541	/

1.6 MEASUREMENT INSTRUMENTS LIST

RF Connected Test equipment				
Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Vector Signal Generator	Agilen	N5182A	MY50142585	2026-05-26
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	132488-Sz	2026-05-26
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50531325	2026-05-26
DC Power Supper	KEYSIGHT	E3642A	MY41002348	2026-05-26
power meter	MWRFTest	MW100-PSB	MW210914PB-22	2026-05-26

Note: The calibration of the above-mentioned instruments shall be carried out in accordance with Clause C below.

Remark:

(a) Callbration conducted by the National institute of infommation and Communications Technology (NiCT)in Japan (hereinafter referred to as "NICT") or a designated calbration agency under Article 102-18paragraph (1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act(Act No.51 of 1992).

(c) Calilbration conducted in countries except Japan, which shall be equivalent to the calibration conductedby the NiCT or a designated calibration agency under Article102-18 paragraph (1).

(d) Calibration,etc, conducted by using measuring instruments and other equipment listed in the rightcolumn of appended table No.3,which shall have been given any type of calbration, etc. listed abovefrom (a)to (c)

From JRL Article 24 .2, paragraph 4, Item 2 "

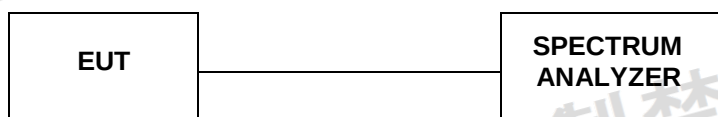
2 TEST CONDITIONS AND RESULTS

2.2 FREQUENCY ERROR

2.2.1 LIMIT

±50ppm

2.2.2 TEST CONFIGURATION



2.2.3 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: 1000 KHz

RBW: 10 KHz

VBW: 10 KHz

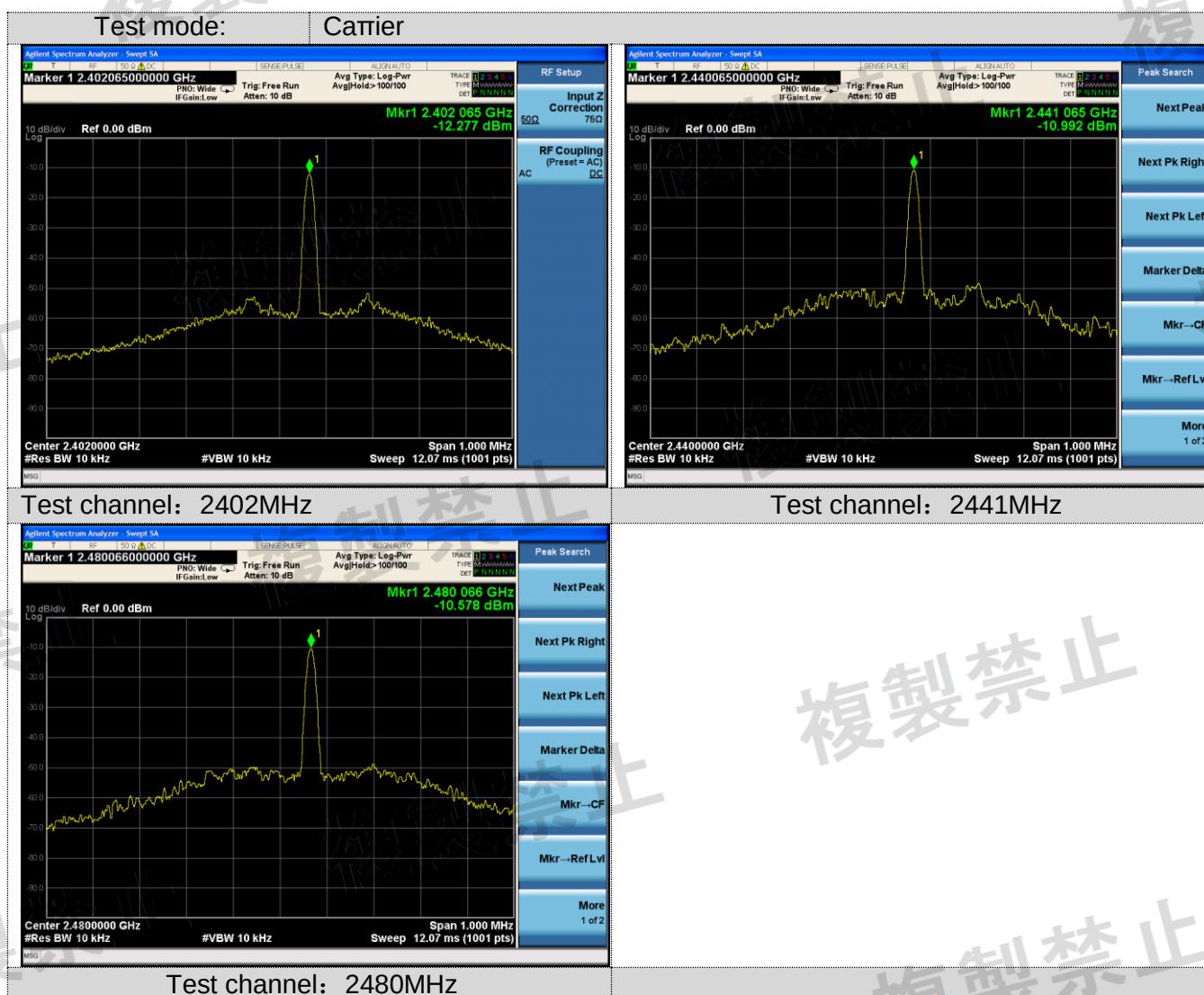
Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

2.2.4 TEST RESULTS

Testvoltage (V)	Frequency (MHz)	Read (MHz)	Deviation (MHz)	Tolerance (ppm)	Limit (ppm)	Result
DC 3.7V	2402.00	2402.065	0.065	27.06	±50.00	Pass
	2441.00	2441.065	0.065	26.63		
	2480.00	2480.066	0.066	26.61		



2.3 ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE

2.3.1 LIMIT

1. $\leq 3 \text{ mW/MHz}$ (FH, FH+DS, FH+OFDM from 2400 - 2483.5 MHz)
2. $\leq 10 \text{ mW/MHz}$ (OFDM OBW < 26 MHz, DS, FH other than (1))
3. $\leq 5 \text{ mW/MHz}$ (OFDM OBW 26 - 38 MHz)
4. $\leq 10 \text{ mW}$ (Other than (1) & (2) & (3) 10 mW)

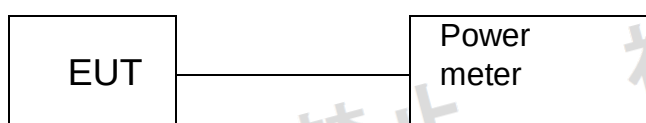
The Output Power Tolerance must be within +20%.

E.i.r.p:

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

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

2.3.2 TEST CONFIGURATION



2.3.3 TEST RESULTS

DC 3.7V									
Mode	Reading power(dBm)	Hopping total power(mW)	Spread Band width (MHz)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
BR	7.56	5.702	72.125	0.07906	3	0.1	-20.94	20%	Pass
antenna power=Hopping total power/spread bandwidth.									

2.4 OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH

2.4.1 LIMIT

- Occupied bandwidth: FH≤83.5 MHz; OFDM≤38 MHz, DS≤26 MHz; Others≤26 MHz

2.4.2 TEST CONFIGURATION



2.4.3 TEST PROCEDURE

- Setting of SA is following as follow:

RBW: 1000 kHz

VB: 1000 kHz

Sweep time: Auto

Sweep Mode: Continuous sweep

Detect mode: Positive peak

Trace mode: Max hold

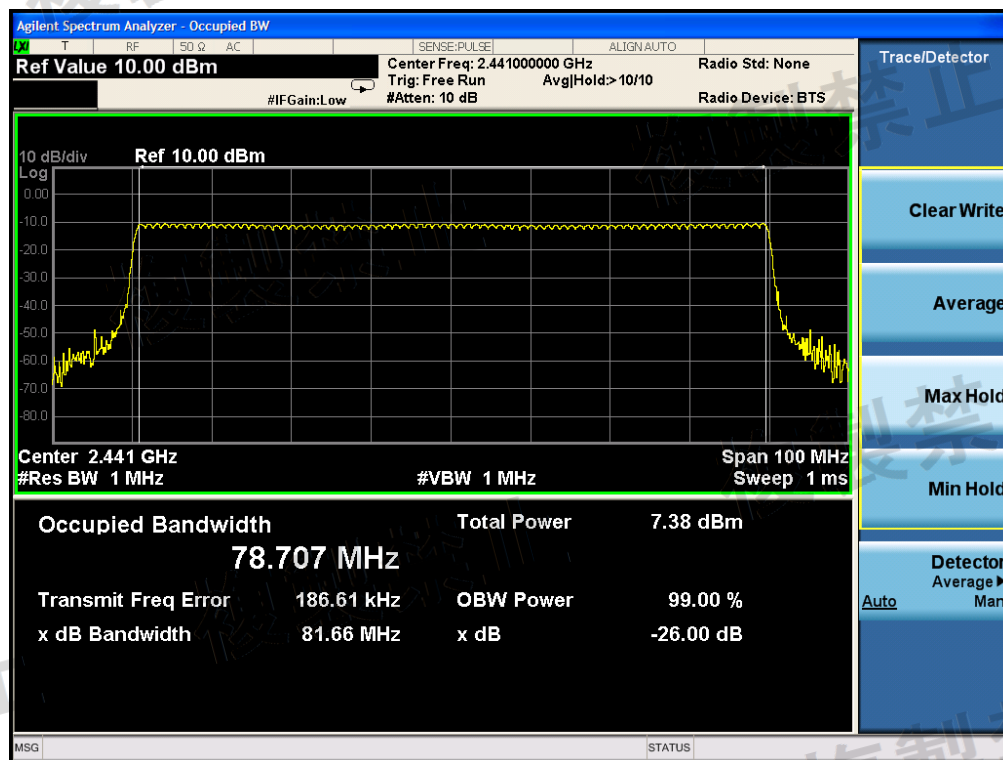
- EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

2.4.4 TEST RESULTS

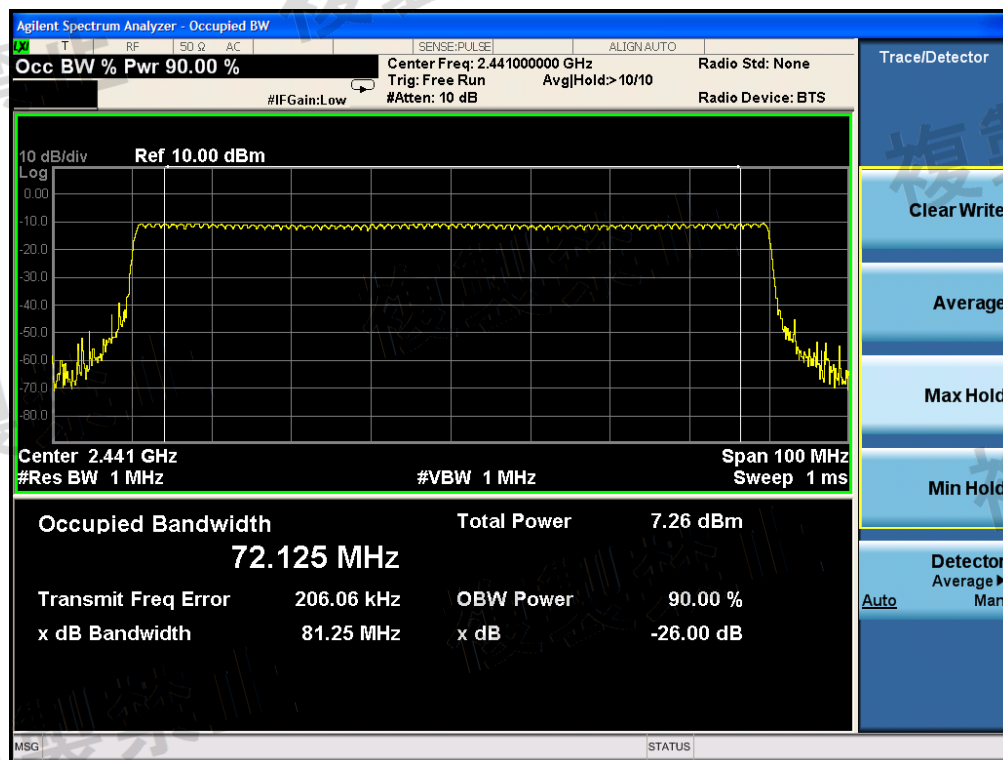
Test Condition	Type	Channel (MHz)	Occupy Bandwidth99% (MHz)	Limit (MHz)	Result
TNVN	BR	79 channels (2402~2480 MHz)	78.707	83.5 MHz or less	Pass

Test Condition	Test Mode	Test Channel	Occupy Bandwidth90% [MHz]	Spread factor
TNVN	DH5	79 channels (2402~2480 MHz)	72.125	72.125

Result plot as follows: Bandwidth 99%
For FHSS: BR mode (GFSK):



Result plot as follows: Bandwidth 90%
For FHSS: BR mode (GFSK):



2.5 DWELL TIME

2.5.1 LIMIT

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

MEASURING INSTRUMENTS AND SETTING

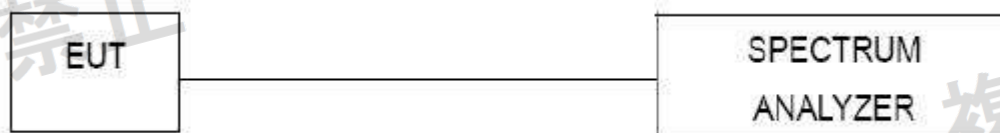
Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

2.5.2 TEST PROCEDURES

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for all packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = $[\text{spreading rate}/79] \times \text{duty-cycle} \times 0.4 \text{ seconds}$. (to be determined for each mode)

2.5.3 TEST SETUP LAYOUT



2.5.4 TEST RESULT

Test result:

For FHSS: BR mode (GFSK):

Test data rate	spreading rate	Burst ms	burst cycle ms	Dwell Time ms	Limits ms
DH1	72.125	0.400	3.900	37	400
DH3		1.1617	5.117	83	
DH5		2.800	6.280	163	

Remark: Calculated method: Dwell time=(0.4(s) x [spreading rate] x [Transmission time of 1 burst(s)])/([burst cycle(s)]/[No. of hopping channel])

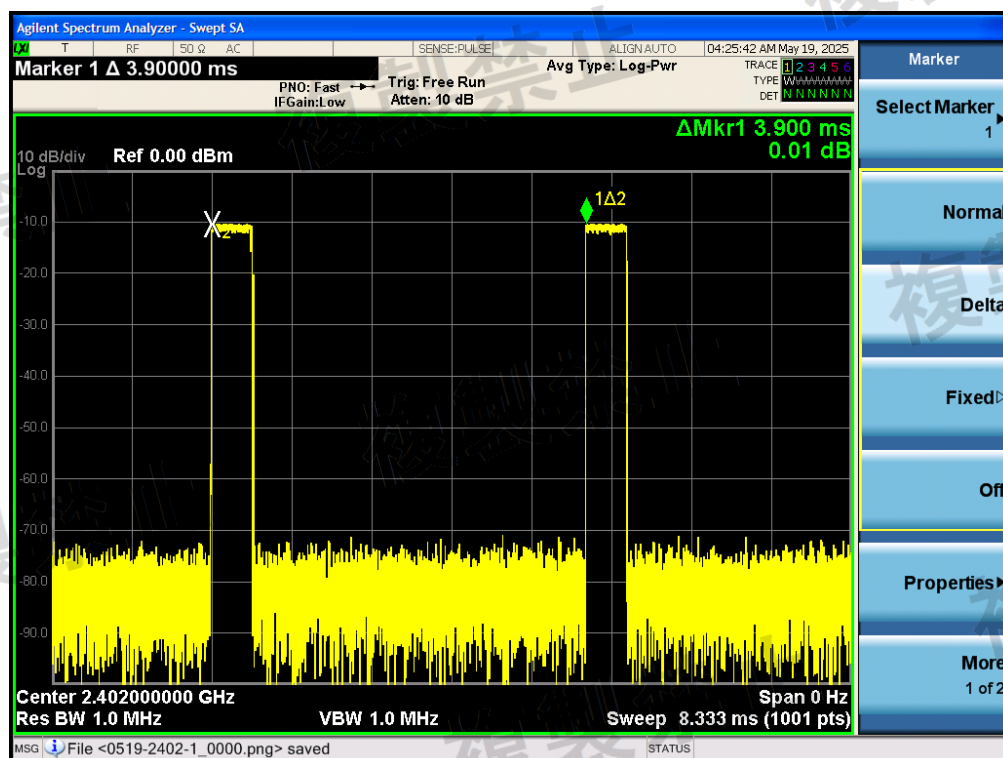
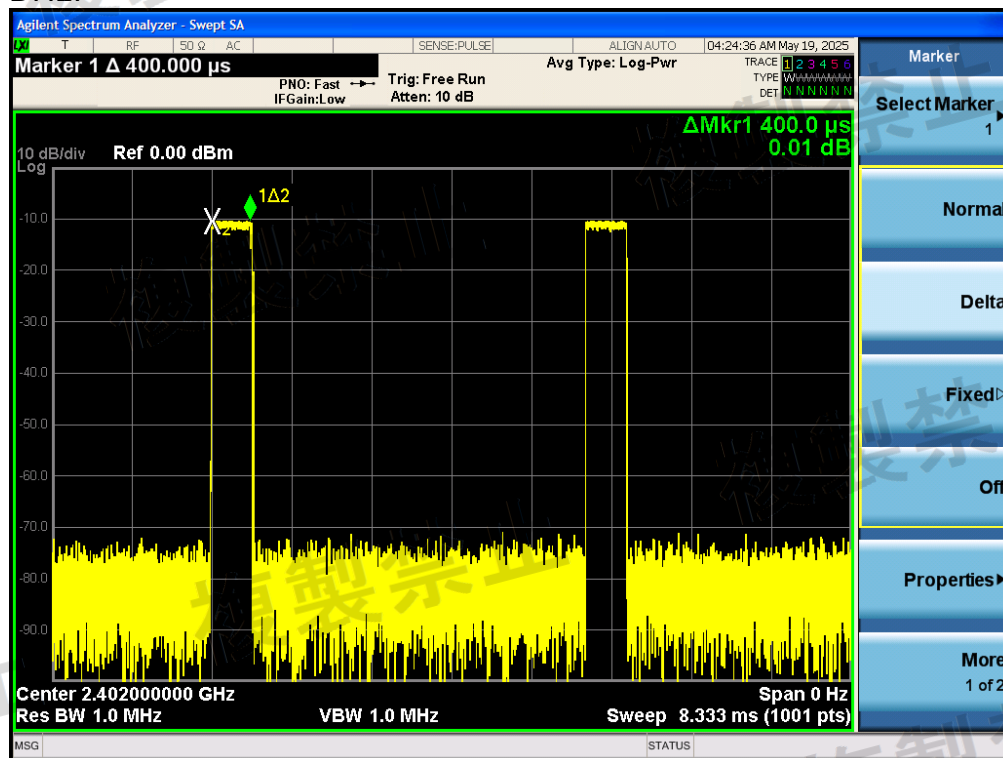
Note: Spreading rate=[Spread bandwidth (actual measurement value)]/[Symbol rate]

Symbol rate is 1 for GFSK mode.

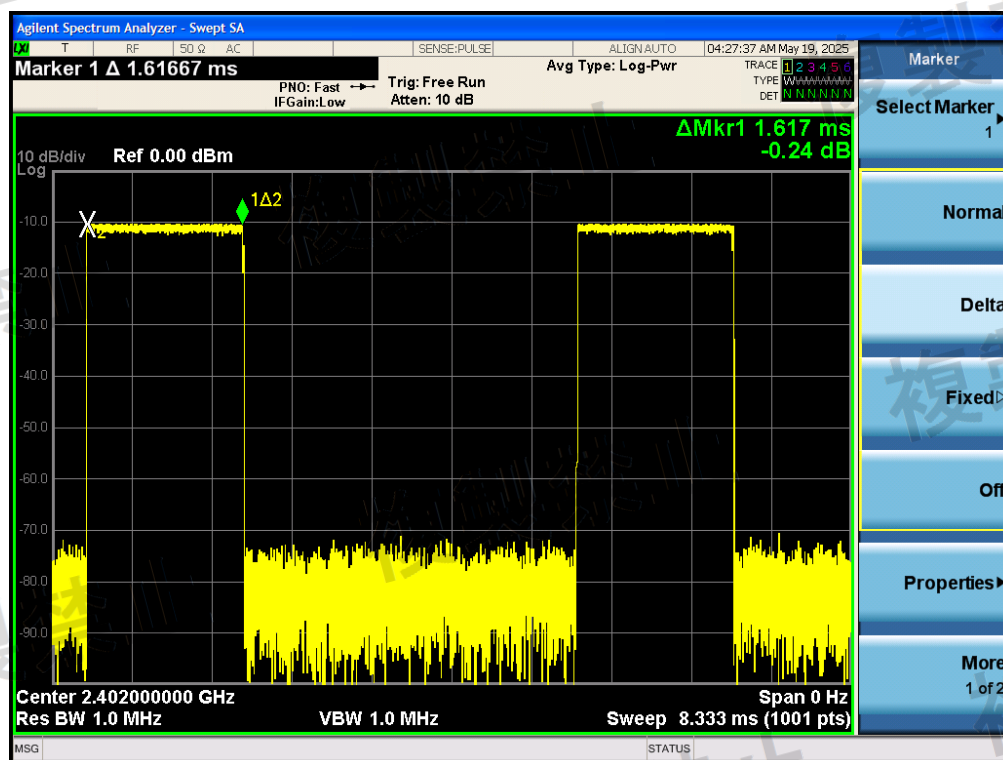
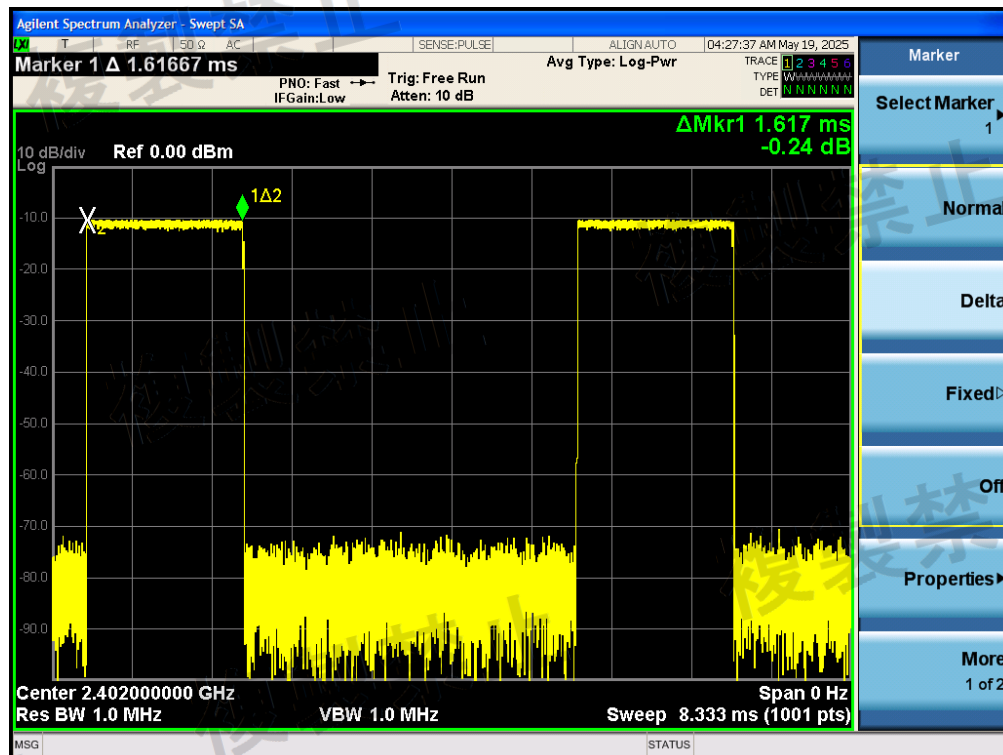
Result plot as follows:

BR mode (GFSK):

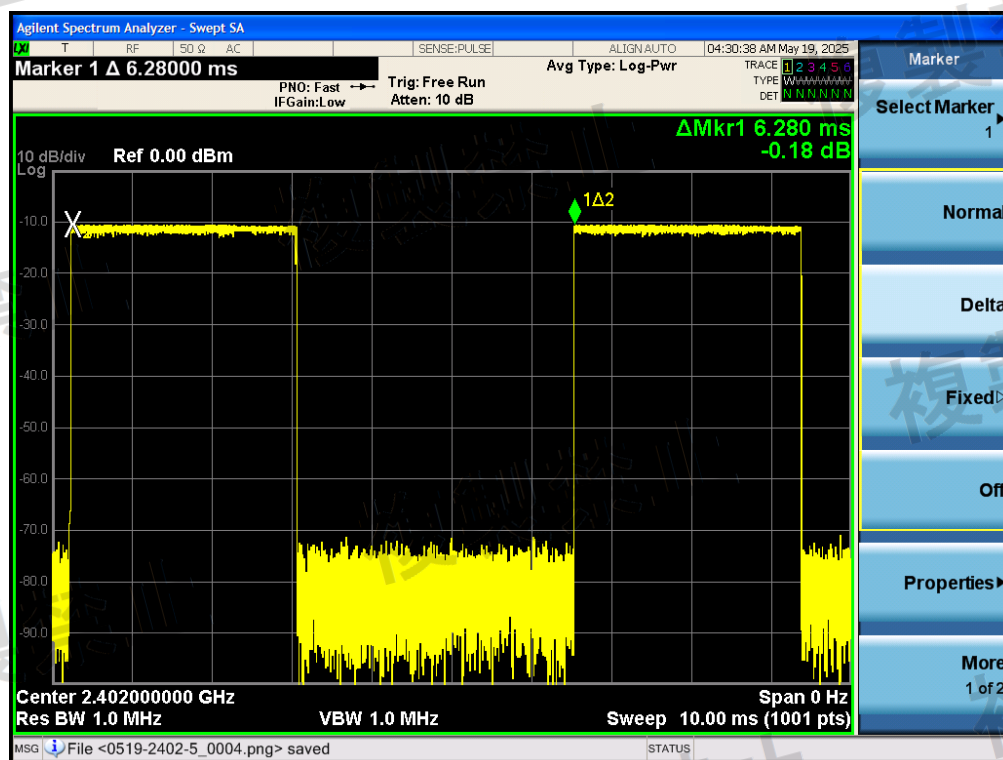
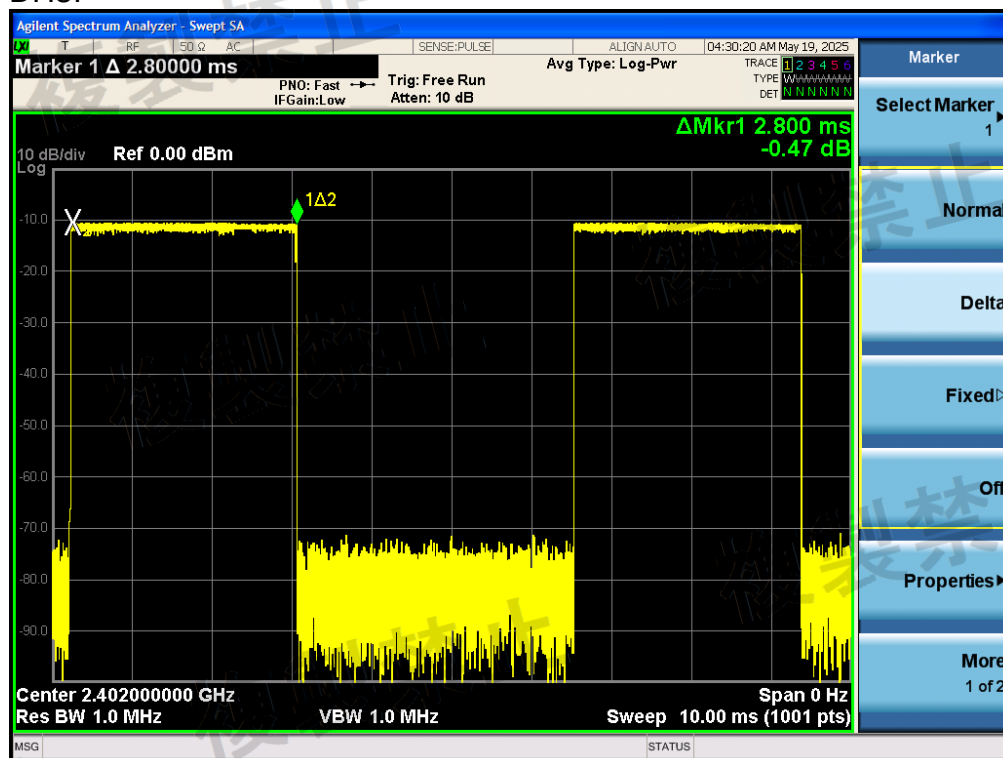
DH1:



DH3:



DH5:



2.6 UNWANTED EMISSION STRENGTH

2.6.1 LIMIT

Below 2387 MHz: 2.5 μ W/MHz or less

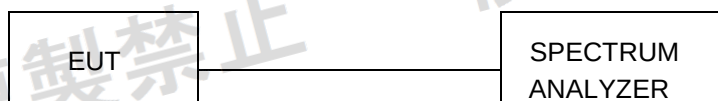
2387 to 2400 MHz: 25 μ W/MHz or less

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
$30\text{MHz} \leq f \leq 1000\text{MHz}$	2.5 μ W/MHz or less	-26dBm/MHz
$1000\text{MHz} < f \leq 2387\text{MHz}$	2.5 μ W/MHz or less	-26dBm/MHz
$2387\text{MHz} < f \leq 2400\text{MHz}$	25 μ W/MHz or less	-16dBm/MHz
$2483.5\text{MHz} \leq f < 2496.5\text{MHz}$	25 μ W/MHz or less	-16dBm/MHz
$2496.5\text{MHz} \leq f < 12500\text{MHz}$	2.5 μ W/MHz or less	-26dBm/MHz

2.6.2 TEST CONFIGURATION



2.6.3 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-12.5GHz

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

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

Sweep time: Auto

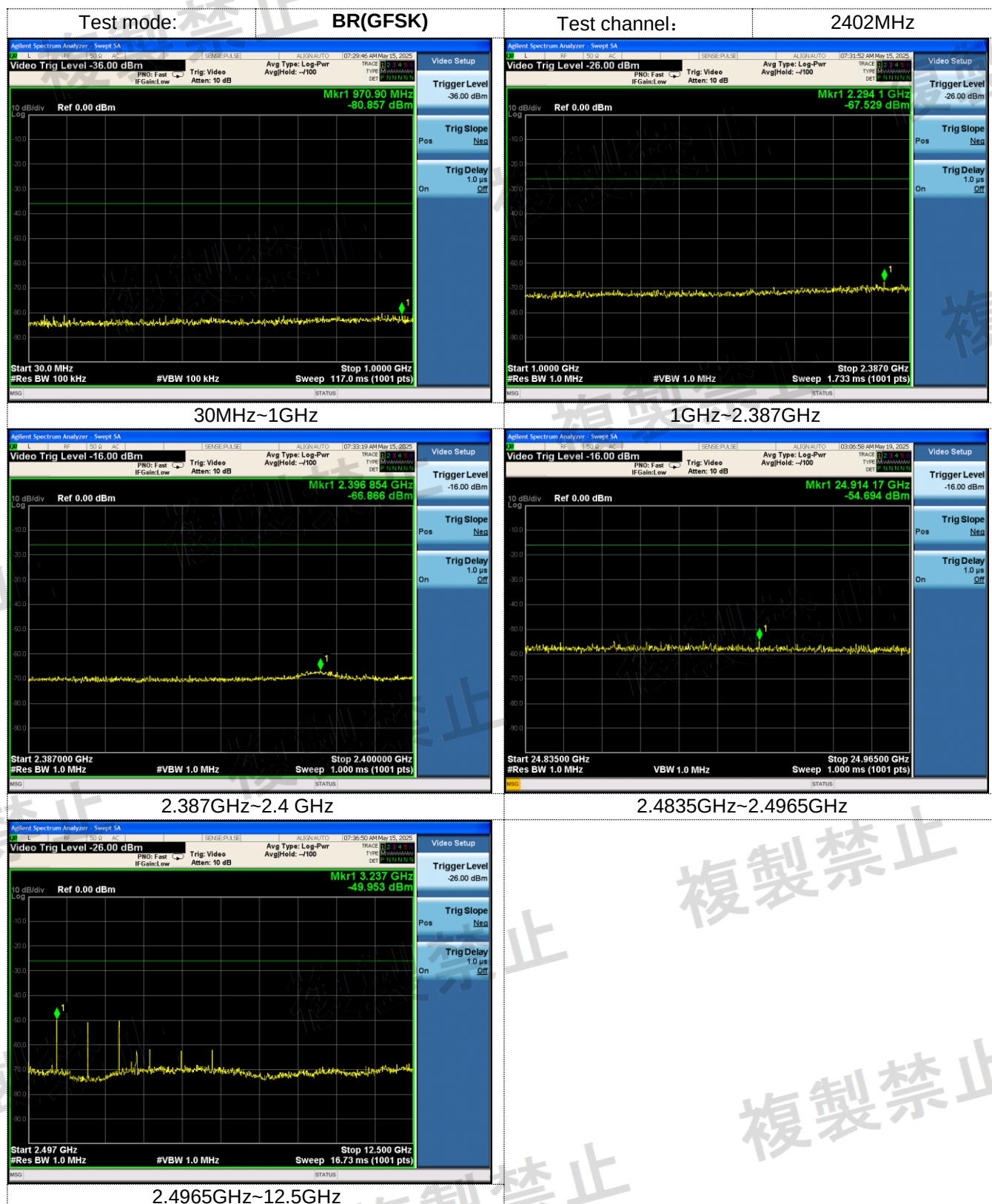
Detector mode: Positive peak

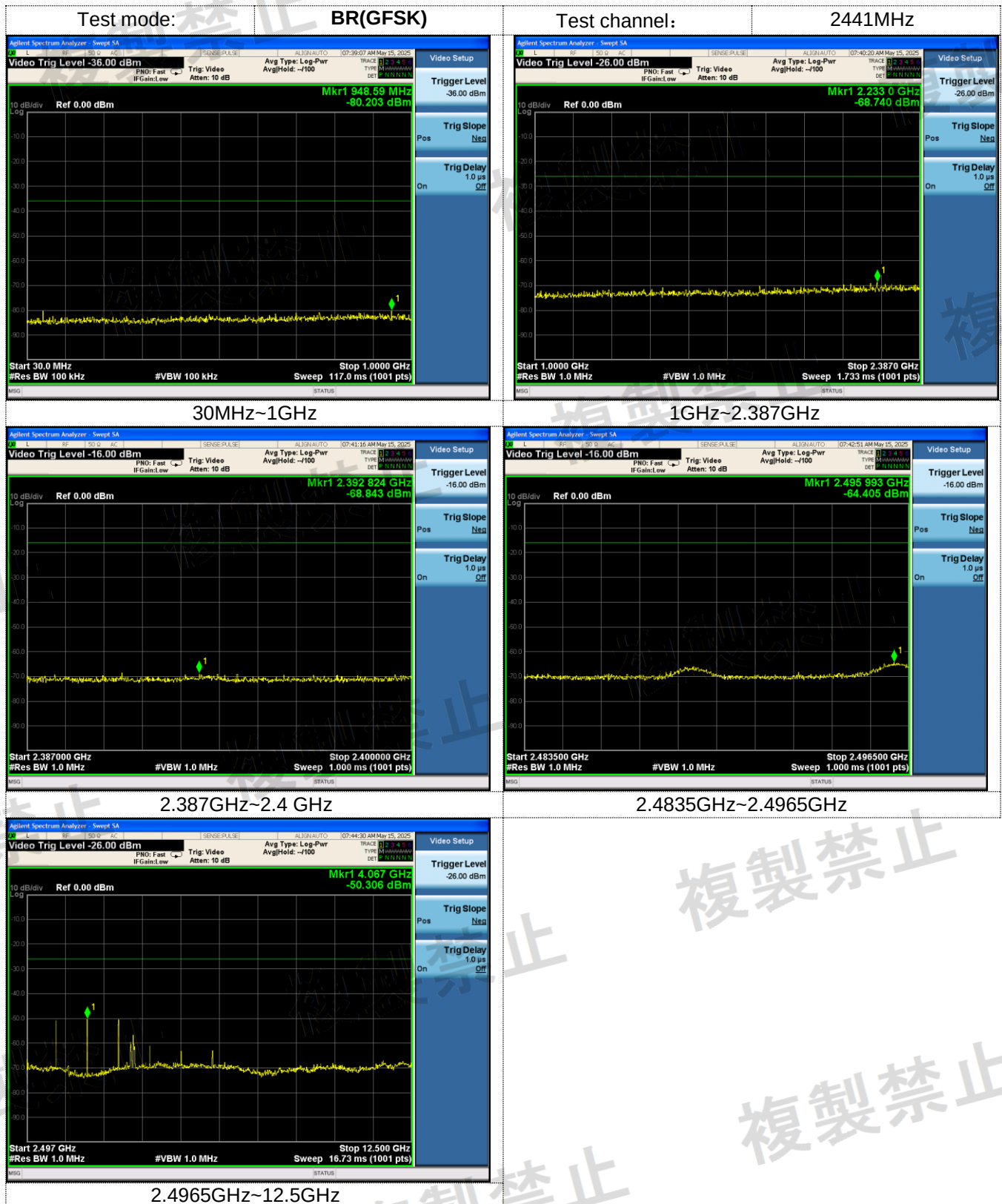
Indication mode: max hold

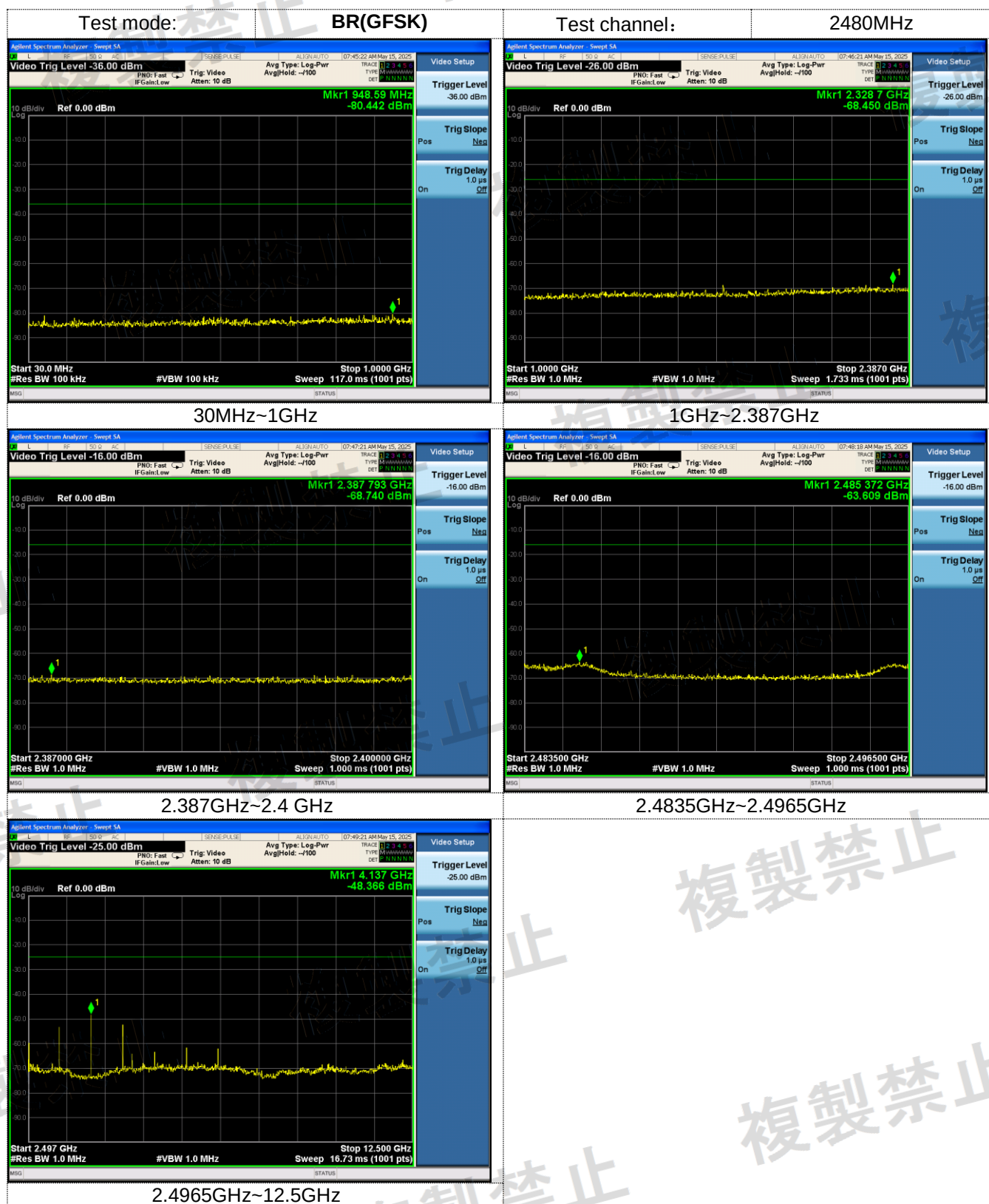
2.6.4 TEST RESULTS

Bluetooth GFSK mode have been tested, and the worst result (GFSK) was report as below:

Frequency (MHz)	Test Freq. Range (MHz)	Max Value (dBm/MHz)	Limit (dBm/MHz)	Verdict
2402.00	30-1000	-80.857*	-26	Pass
	1000-2387	-67.529	-26	Pass
	2387-2400	-66.866	-16	Pass
	2483.5-2496.5	-54.694	-16	Pass
	2496.5-12500	-49.953	-26	Pass
2441.00	30-1000	-80.203*	-26	Pass
	1000-2387	-68.740	-26	Pass
	2387-2400	-68.843	-16	Pass
	2483.5-2496.5	-64.405	-16	Pass
	2496.5-12500	-50.306	-26	Pass
2480.00	30-1000	-80.442*	-26	Pass
	1000-2387	-68.450	-26	Pass
	2387-2400	-68.740	-16	Pass
	2483.5-2496.5	-63.609	-16	Pass
	2496.5-12500	-48.366	-26	Pass
* 30M-1GHz test level (dBm/MHz) = measure level(dBm/100kHz) +10*log (1MHz/100kHz)				







2.7 SECONDARY RADIATED EMISSION STRENGTH

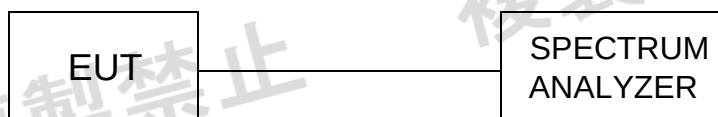
2.7.1 LIMIT

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
$30\text{MHz} \leq f \leq 1000\text{MHz}$	4.0	-54
$1000\text{MHz} < f \leq 13000\text{MHz}$	20	-47

2.7.2 TEST CONFIGURATION



2.7.3 TEST PROCEDURE

If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

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 for 30MHz-1000MHz; 1MHz for 1000MHz-13000MHz

VBW: 100kHz for 30MHz-1GHz; 1MHz for 1000MHz-13000MHz

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

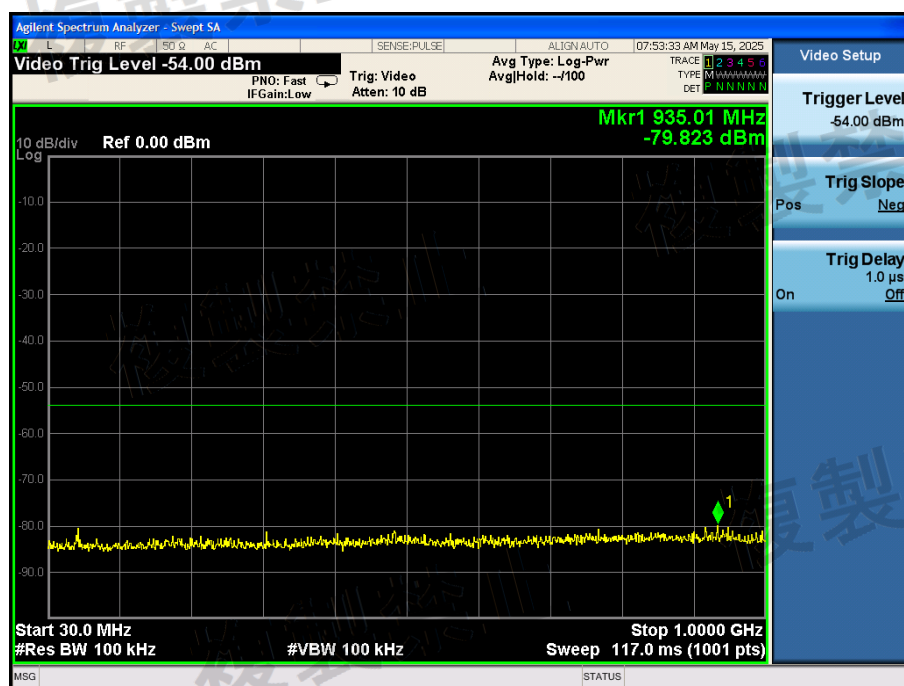
2.7.4 TEST RESULTS

Bluetooth(GFSK mode have been tested, and the worst result (GFSK_2402MHz) was report as below:

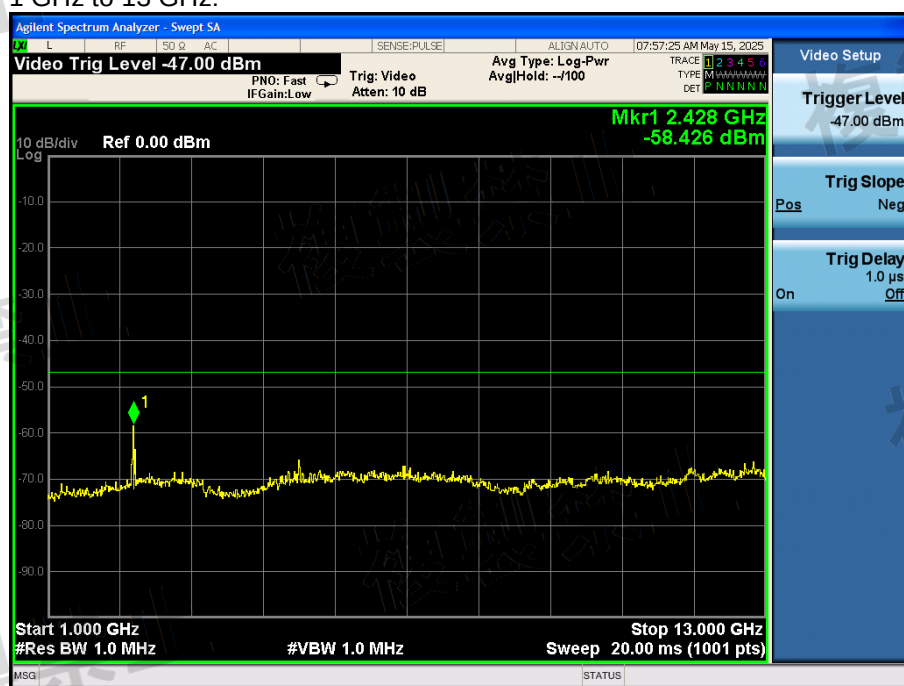
Test mode	Test Freq. Range (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
GFSK	30-1000	-79.823	-54	Pass
	1000-13000	-58.426	-47	Pass

For FHSS: BR mode (GFSK):

30MHz to 1 GHz:



1 GHz to 13 GHz:



2.8 TRANSMISSION ANTENNA GAIN(EIRP ANTENNA POWER MEASUREMENT)

2.8.1 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	

2.8.2 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

2.8.3 TEST PROCEDURES

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

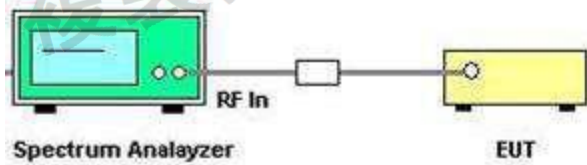
- Set the spectrum analyzer as follows for searching the frequency that outputs the maximum antenna power:

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 bandwidth above RBW, connect to power meter directly.
- Calculate antenna power density by the formula below $P_T(\text{mW/MHz}) = 10 \times \text{Conducted power density(dBm)}/10$
- EIRP = Antenna Power + Antenna Gain

2.8.4 TEST SETUP LAYOUT

For EUT radiation measurement



2.8.5 TEST DEVIATION

There is no deviation with the original standard.

2.8.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

2.8.7 RESULTS OF TRANSMISSION ANTENNA GAIN

Type	Channel (MHz)	Conducted RF output power density (dBm/MHz)	Antenna gain (dBi)	E.I.R.P (dBm/MHz)	Limit (dBm/MHz)	Result
GFSK	/	-11.02	-0.42	-11.44	6.91	Pass

Note: EIRP = Output Power + Antenna Gain

Transmitting Antenna Absolute Gain: 12.14 dBi or less (When an E.I.R.P. is less than the limit, the shortage can be compensated for by the gain of the transmitting antenna.)

2.9 CONSTRUCTION PROTECTION METHOD

2.9.1 Requirement

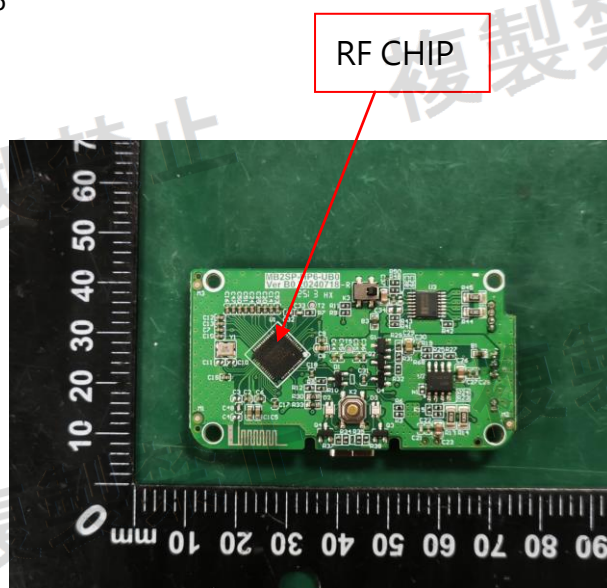
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

2.9.2 Confirmation method

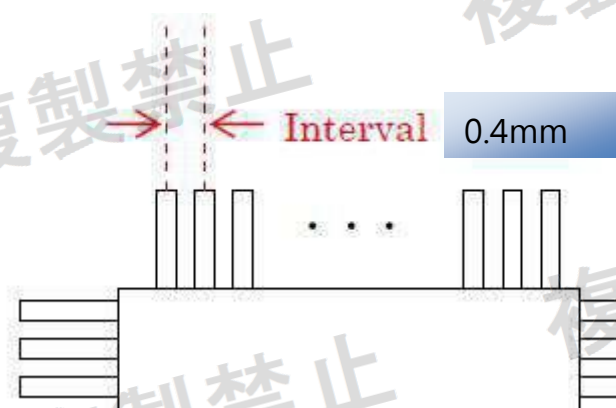
We apply the product for Japan RF certification. All high-frequency section and modulation section packet in one IC ,and The RF IC is Soldering BT RF IC in PCB , the chip pin spacing is very small, the customer can't change it. Please refer to following for photo for details.

The interval of terminals: 0.4mm

Number of the terminals: 56

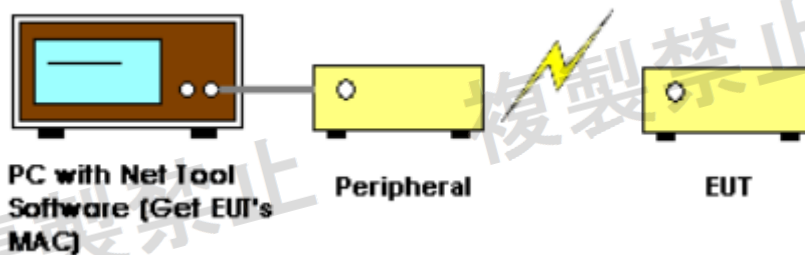


interval of terminals:



2.10 INTERFERENCE PREVENTION FUNCTION

2.10.1 For EUT communication link measurement



2.10.2 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.

2.10.3 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: 03:03:C7:A2:58:3E

2.10.4 TEST RESULTS



***** End of Report *****