

# Measurement and Test Report

According to

**MIC Public Notice 88:2004 Annex 43**

For

**Acer Incorporated**

**8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan, R.O.C**

**Test Standards:** Item 19 of Article 2 Paragraph 1

**Product Description:** Heart Rate Monitor Set

**Tested Model:** HS5

**Report No.:** STR18028070E-1

**Tested Date:** 2018-02-07 to 2018-02-27

**Issued Date:** 2018-02-27

**Tested By:** Long Tang/ Engineer

**Reviewed By:** Silin Chen / EMC Manager

**Approved & Authorized By:** Jandy so / PSQ Manager

**Prepared By:**

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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Version:	Issue date	Revisions Content
initial	2018-02-27	initial Issue

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: Acer Incorporated  
Address of applicant: 8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221,  
Taiwan, R.O.C

Manufacturer: Acer Incorporated  
Address of manufacturer: 8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221,  
Taiwan, R.O.C

General Description of EUT	
Product Name:	Heart Rate Monitor Set
Brand Name:	Xplova
Model No.:	HS5
Adding Model(s):	/
Rated Voltage:	DC 3.0V by Battery
Power Adapter:	/
Hardware version:	HRM812 V7.0
Software version:	V2.4
The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
<b>Bluetooth</b>	
Bluetooth Version:	V4.0 (Only BLE)
Frequency Range:	2402~2480MHz
Rated Output Power:	1mW
Type of Modulation:	GFSK
Data Rate:	1Mbps
Quantity of Channels	40
Channel Separation:	2MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	4.79dBi

Center Frequency of Each of Channel for BLE mode:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2402MHz	Channel 11:	2422MHz	Channel 21:	2442MHz	Channel 31:	2462MHz
Channel 02:	2404MHz	Channel 12:	2424MHz	Channel 22:	2444MHz	Channel 32:	2464MHz
Channel 03:	2406MHz	Channel 13:	2426MHz	Channel 23:	2446MHz	Channel 33:	2466MHz
Channel 04:	2408MHz	Channel 14:	2428MHz	Channel 24:	2448MHz	Channel 34:	2468MHz
Channel 05:	2410MHz	Channel 15:	2430MHz	Channel 25:	2450MHz	Channel 35:	2470MHz
Channel 06:	2412MHz	Channel 16:	2432MHz	Channel 26:	2452MHz	Channel 36:	2472MHz
Channel 07:	2414MHz	Channel 17:	2434MHz	Channel 27:	2454MHz	Channel 37:	2474MHz
Channel 08:	2416MHz	Channel 18:	2436MHz	Channel 28:	2456MHz	Channel 38:	2476MHz
Channel 09:	2418MHz	Channel 19:	2438MHz	Channel 29:	2458MHz	Channel 39:	2478MHz
Channel 10:	2420MHz	Channel 20:	2440MHz	Channel 30:	2460MHz	Channel 40:	2480MHz



## 1.2 Test Standards

The following report is prepared on behalf of the Acer Incorporated in accordance with "Certification Ordinance, Art. 49.20" and MIC public notice 88:2004, annex 43 or relevant ARIB STD-T66 or relevant AIR STD and MIC Public Notice 127.

The objective is to determine compliance with Item 19 of Article 2 Paragraph 1 of the MIC rules for 2.4GHz band wide-band low-power data communication system. Item 2 of Article 6.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with test method for radio equipment specified in MIC public notice 88:2004, annex 43 for certification.

## 1.4 Test Facility

### FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM. Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	BLE	2402/2440/2480MHz

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

## 1.6 Test Conditions

Supply Voltage			
	DC Input Voltage V	DC Voltage V	Percent
Normal	3.0	1.8	
+10%	3.3	1.8	0%
-10%	2.7	1.8	0%

Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage.

Note 2: The regulator voltage is integral within U2003.

## 1.7 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	9kHz-6GHz	$\pm 0.42\text{dB}$
Frequency Tolerance	9kHz-6GHz	$\pm 1 \times 10^{-7}$
Occupied Bandwidth	9kHz-6GHz	$\pm 3\%$
Dwell Time	9kHz-6GHz	$\pm 1\%$
Transmitter Spurious Emissions	9kHz-25GHz	$\pm 2.76\text{dB}$
Receiver Spurious Emissions	9kHz-25GHz	$\pm 2.76\text{dB}$

### 1.8 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Attenuator	ATTEN	ATS100-4-20	/	2017-06-12	2018-06-11
Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
Spectrum Analyzer	R&S	FSP	836079/035	2017-06-12	2018-06-11
EMI Test Receiver	R&S	ESVB	825471/005	2017-06-12	2018-06-11
Pre-amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
Pre-amplifier	Compliance Direction	PAP-0118	24002	2017-06-12	2018-06-11
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2017-06-08	2018-06-07
Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2017-06-08	2018-06-07

### 1.9 Calibration Information

Calibration lab: CHINA CEPREI LABORATORY

Calibrated by: Liu Peng



## 2. SUMMARY OF TEST RESULTS

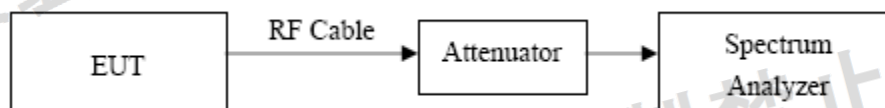
MIC RULES	DESCRIPTION OF TEST	RESULT
Item 19	RF Output Power	Compliant
Item 19	Frequency Tolerance	Compliant
Item 19	Occupied Bandwidth /Spreading Bandwidth/Spread Factor	Compliant
Item 19	Holding time of hopping frequency	N/A
Item 19	Transmitter Spurious Emissions	Compliant
Item 19	Receiver Spurious Emissions	Compliant
Item 19	Interference Prevention Function	Compliant
Item 19	Carrier Sending Function	N/A

### 3. RF OUTPUT POWER

#### 3.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1, the maximum permit antenna power is 3mW/MHz for DSSS the maximum permit antenna power is 10mW, and the maximum permit tolerance is +20% or -80%.

#### 3.2 Test Setup Block Diagram



#### 3.3 Test Procedure

For FHSS

Spectrum Analyzer conditions (Search Frequency of Peak Power)

Frequency: Test Frequency

Span 2 Times of Signal Occupied bandwidth

RBW 1MHz

VBW 3MHz

Sweep Time Auto (In case of Burst, at least 1 burst per sample)

Detector mode Positive peak

Indication mode Max hold

Spectrum Analyzer conditions (Measure of Antenna Power )

Frequency: Frequency of Peak Power

Span 0Hz

RBW 1MHz

VBW 1MHz

Sweep Time Auto (In case of Burst, at least 1 burst per sample)

For DSSS

(a) A measurement instrument with an integrated 1MHz power bandwidth function may be used to automate the test process.

(b) Connect the EUT to the RF input of the spectrum analyzer via a 50ohm attenuator.

(c) Set the RBW = 1MHz, VBW = 1MHz, center of frequency = operating frequency, Sweep = Auto.

(d) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.

#### 3.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

### 3.5 Summary of Test Results/Plots

#### BLE RF Output Power

Frequency (MHz)	Measure Value (dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
2402	-2.788	10.0	4.79	2.002	12.14
2440	-2.148	10.0	4.79	2.642	12.14
2480	-1.657	10.0	4.79	3.133	12.14

All the EIRP is less than 12.14dBm, the half-power beam width is not necessary

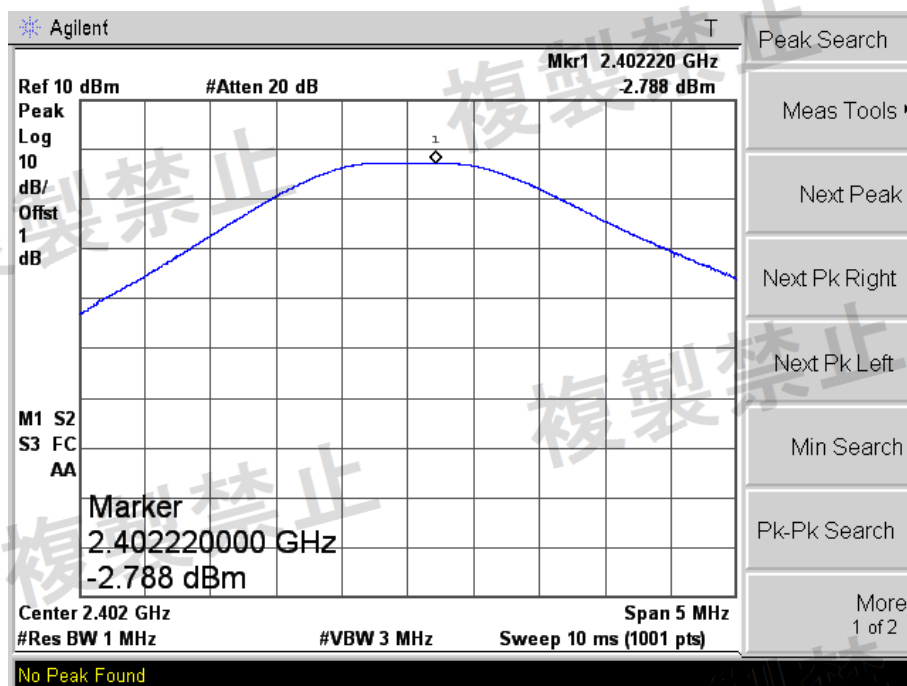
#### BLE RF Output Power Tolerance

Frequency (MHz)	Output Power (mW)	Rated Output Power (mW)	Tolerance (%)	Limit (%)
2402	0.53	1	-47	+20% to -80%
2440	0.61	1	-39	+20% to -80%
2480	0.68	1	-32	+20% to -80%

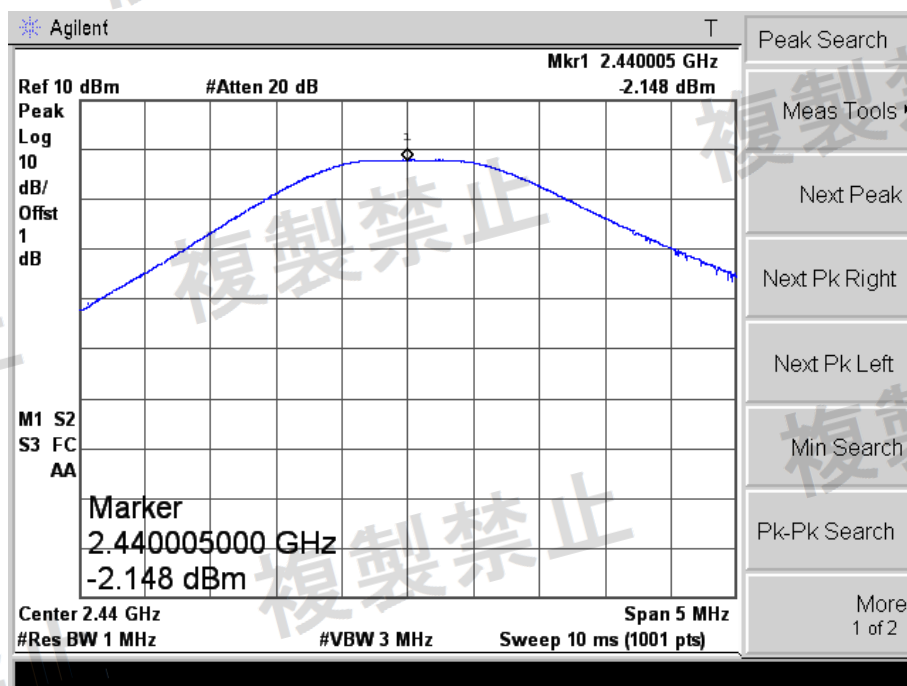
Note: Tolerance = (Output Power – Rated Output Power) / Rated Output Power \* 100%

Please refer to the test plots

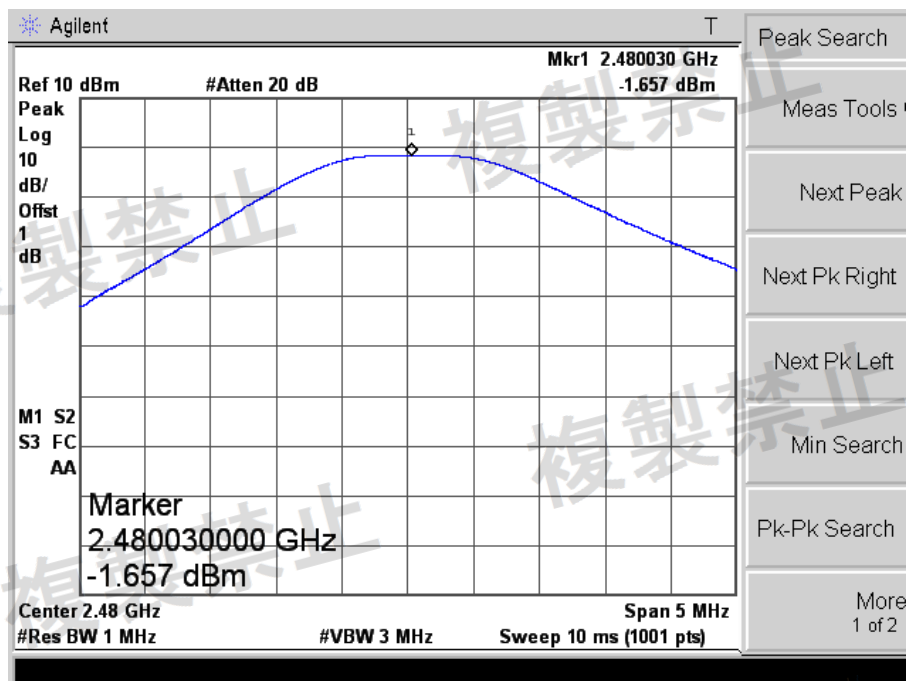
BLE  
Low Channel:



Middle Channel:



High Channel:



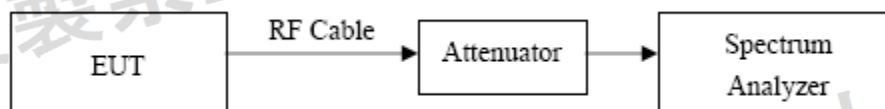


## 4. FREQUENCY TOLERANCE

### 4.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1, the maximum permit tolerance of frequency is 50ppm.

### 4.2 Test Setup Block Diagram



### 4.3 Test Procedure

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=10KHz, Span = 1MHz.
- 4 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

### 4.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

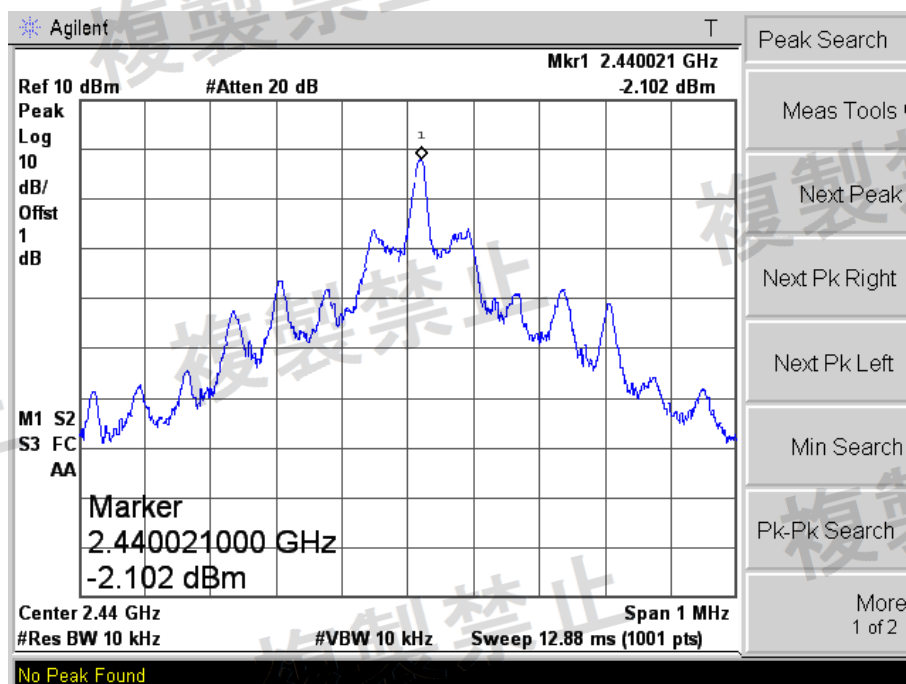
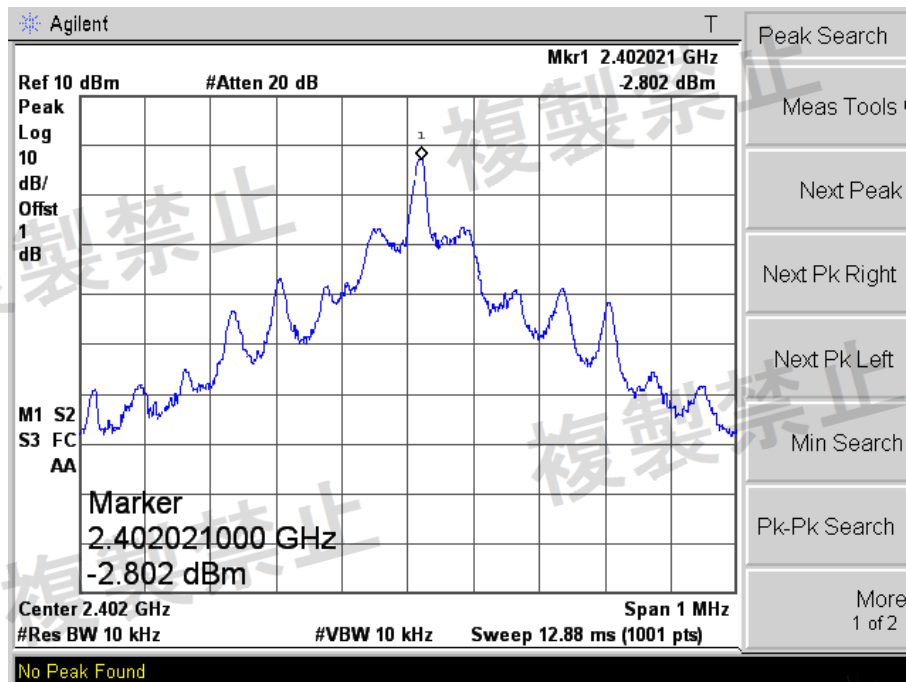
#### 4.5 Summary of Test Results/Plots

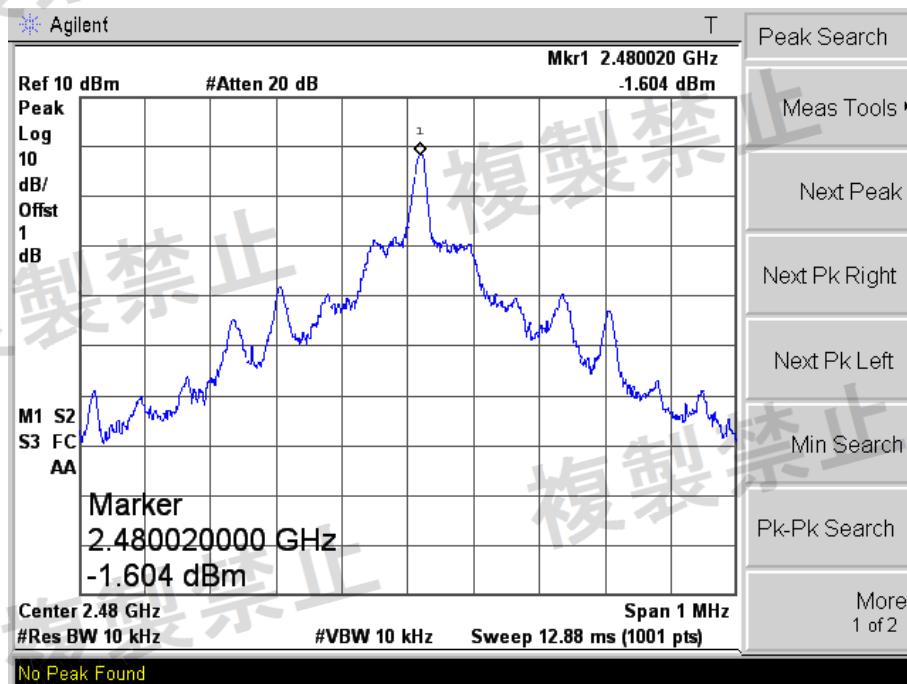
BLE:

Tx Frequency (MHz)	Reading Value (MHz)	Tolerance (ppm)	Limit (ppm)
2402	2402.021	8.74	$\pm 50$
2440	2440.021	8.61	$\pm 50$
2480	2480.02	8.06	$\pm 50$

Please refer to the test plots

BLE:



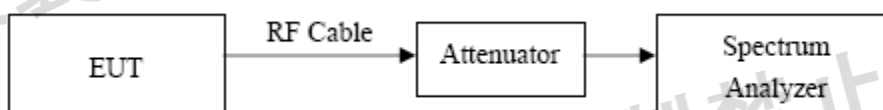


## 5. OCCUPIED BANDWIDTH/SPREAD BANDWIDTH/SPREAD FACTOR

### 5.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The occupied bandwidth shall not exceed 83.5MHz, the spreading bandwidth no less than 500kHz, and the operating frequency range lies within the band 2400MHz to 2483.5 MHz.

### 5.2 Test Setup Block Diagram



### 5.3 Test Procedure

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resoluble bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode : Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.



## 5.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

## 5.5 Summary of Test Results/Plots

BLE:

Occupied Bandwidth (99% Emission bandwidth)

Tx Frequency (MHz)	Reading Value (MHz)	Limit (MHz)
2402	1.0586	<26
2440	1.0565	<26
2480	1.0505	<26

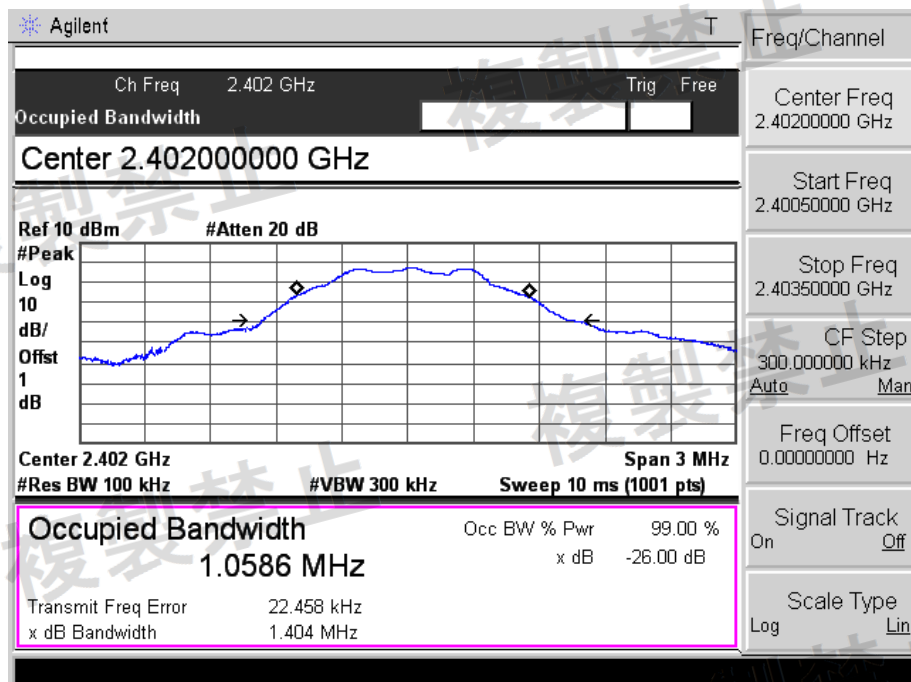
Diffusion Bandwidth (90% Emission bandwidth)

Tx Frequency (MHz)	Reading Value (kHz)	Limit (kHz)
2402	658.8151	$\geq 500$
2440	656.7896	$\geq 500$
2480	645.6900	$\geq 500$

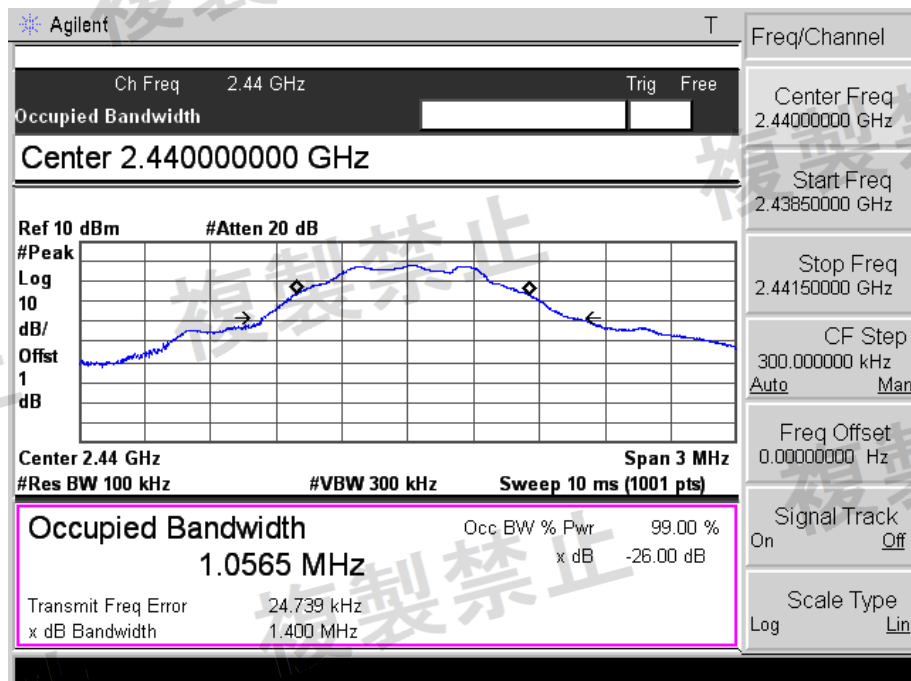
Please refer to the following test plots

BLE:

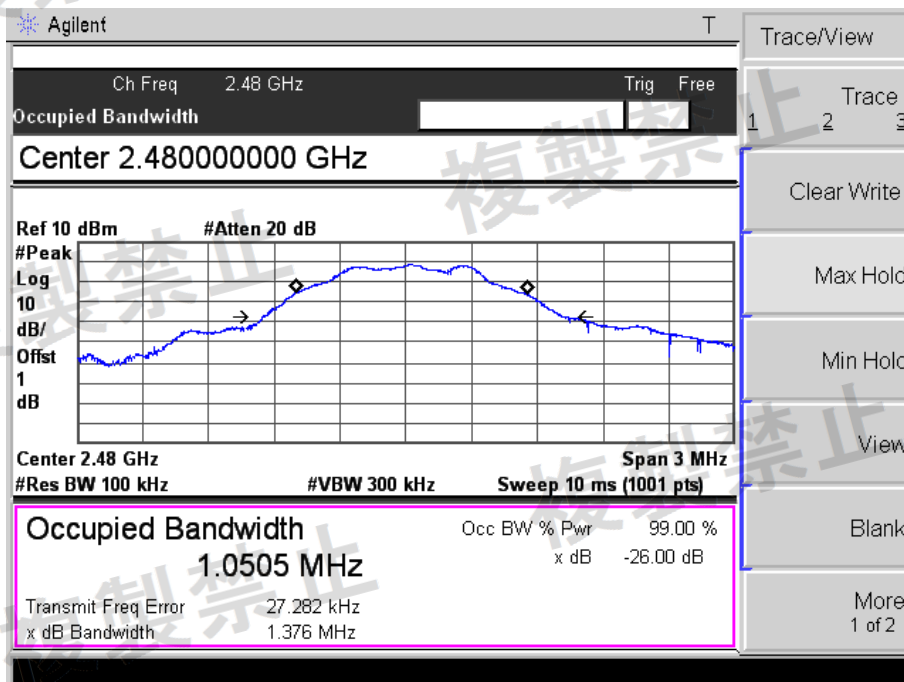
99% Occupied Bandwidth (Low Channel)



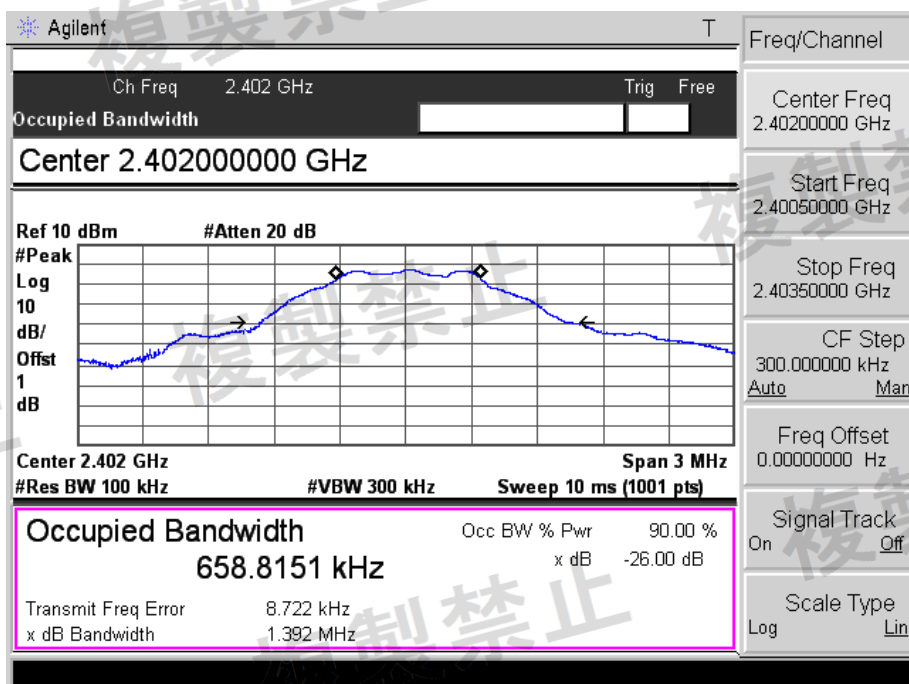
99% Occupied Bandwidth (Middle Channel)



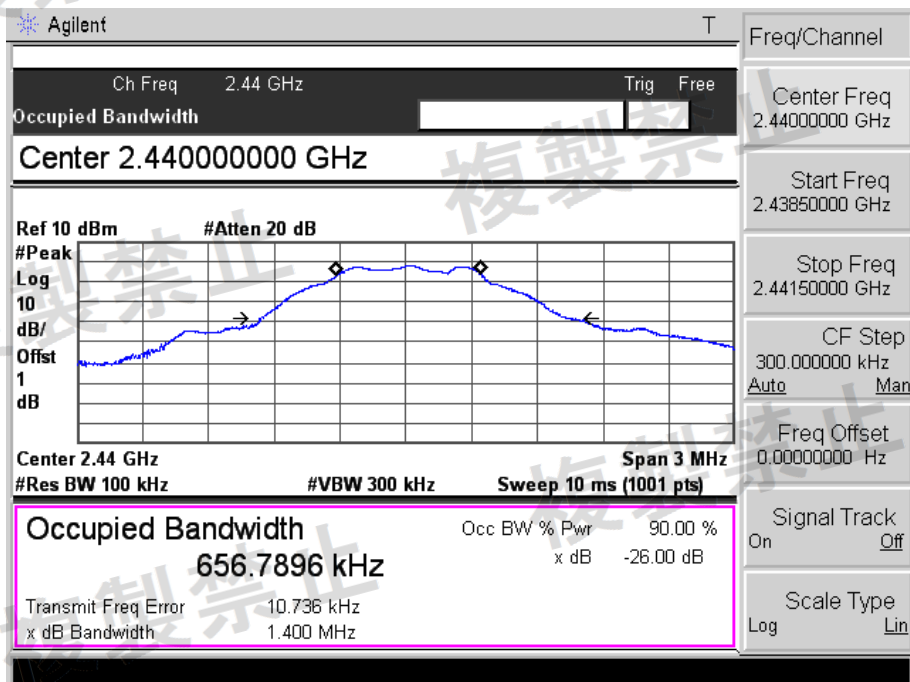
# 99% Occupied Bandwidth (High Channel)



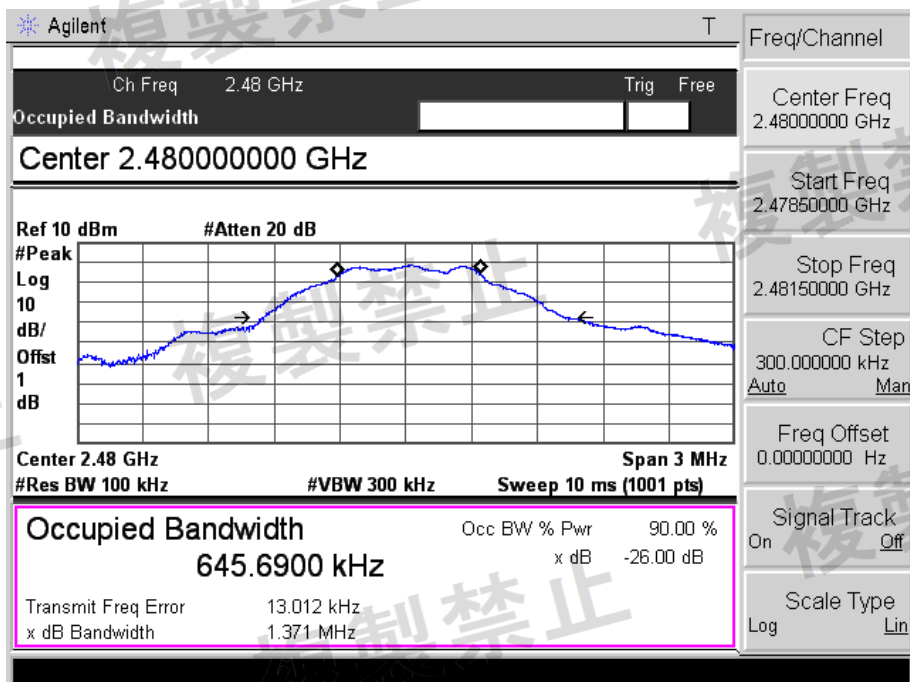
# 90% Diffusion Bandwidth (Low Channel)



## 90% Diffusion Bandwidth (Middle Channel)



## 90% Diffusion Bandwidth (High Channel)



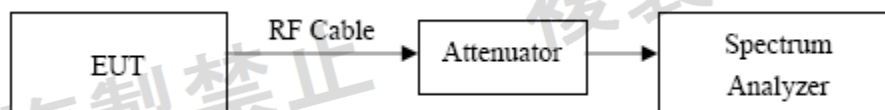
## 6. TRANSMITTER SPURIOUS EMISSIONS

### 6.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The transmitter spurious emissions shall not exceed the following limit:

- (1) Below 2387MHz :  $2.5\mu\text{W/MHz}$
- (2) 2387 to 2400MHz :  $25\mu\text{W/MHz}$
- (3) 2483.5 through 2496.5MHz :  $25\mu\text{W/MHz}$
- (4) Over 2496.5MHz :  $2.5\mu\text{W/MHz}$

### 6.2 Test Setup Block Diagram



### 6.3 Test Procedure

- (1) A spectrumIn case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

### 6.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar



## 6.5 Summary of Test Results/Plots

### Transmitter Spurious Emissions

For BLE:

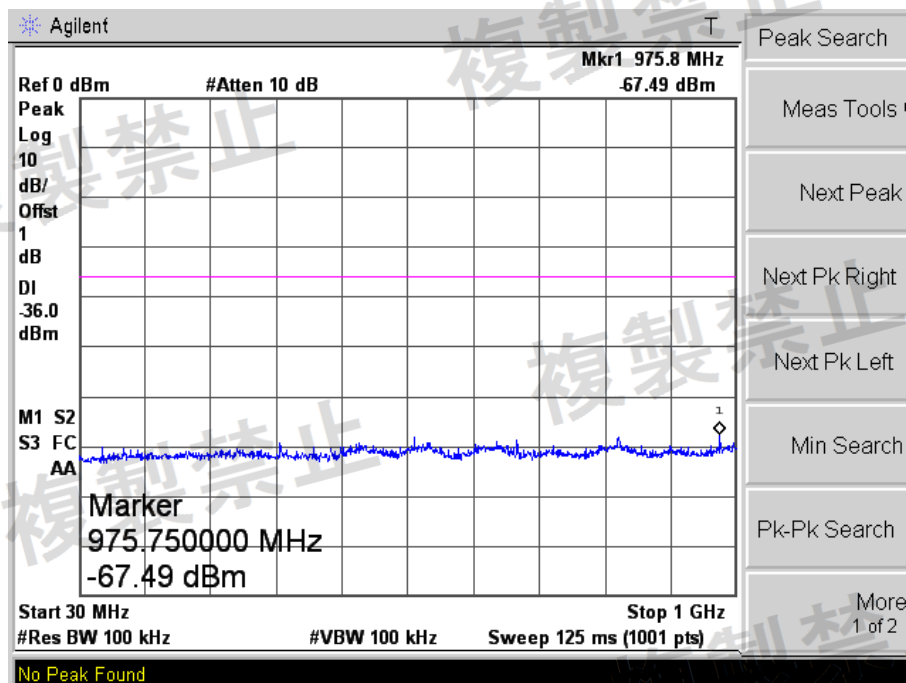
Frequency Range (MHz)	Maximum Spurious Emission Value (dBm/100kHz)	Limit (dBm/100kHz)
Test Mode: BLE-Low Channel(2402)		
30-1000	-67.49	-36
Test Mode: BLE-Middle Channel(2440)		
30-1000	-67.10	-36
Test Mode: BLE-Low Channel(2480)		
30-1000	-64.35	-36

Frequency Range (MHz)	Maximum Spurious Emission Value (dBm/MHz)	Limit (dBm/MHz)
Test Mode: BLE-Low Channel(2402)		
1000-2387	-52.09	-26
2387-2400	-29.97	-16
2483.5-2496.5	-61.38	-16
2496.5-127500	-45.69	-26
Test Mode: BLE-Middle Channel(2440)		
1000-2387	-52.06	-26
2387-2400	-62.86	-16
2483.5-2496.5	-61.28	-16
2496.5-127500	-50.26	-26
Test Mode: BLE-Low Channel(2480)		
1000-2387	-50.37	-26
2387-2400	-61.51	-16
2483.5-2496.5	-38.54	-16
2496.5-127500	-47.00	-26

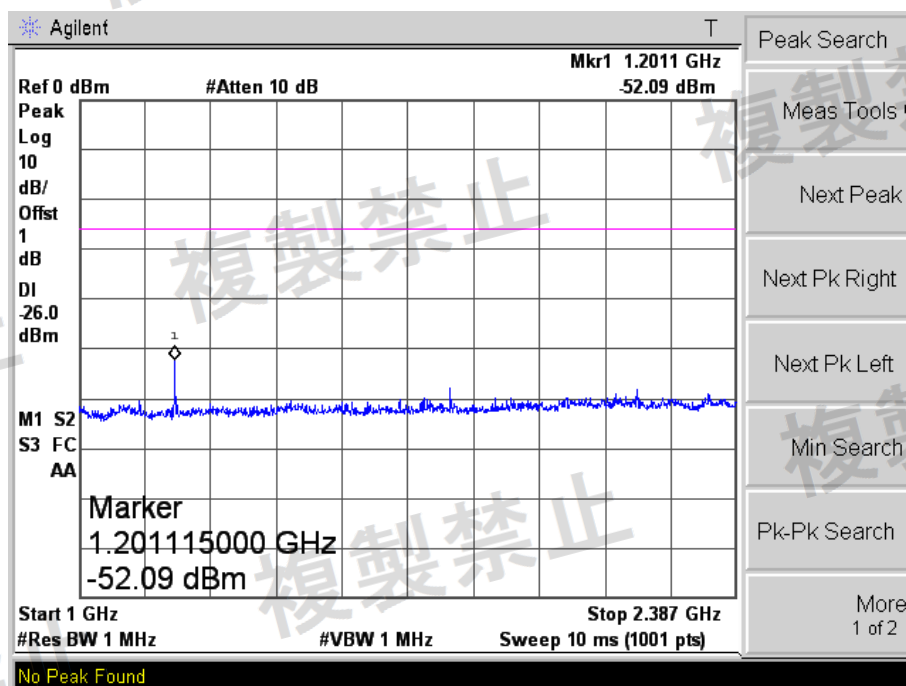
2.5 $\mu$ W/MHz=-26dBm/MHz, 25 $\mu$ W/MHz=-16dBm/MHz 2.5 $\mu$ W/MHz=-36dBm/100kHz,

Please refer to the following test plots

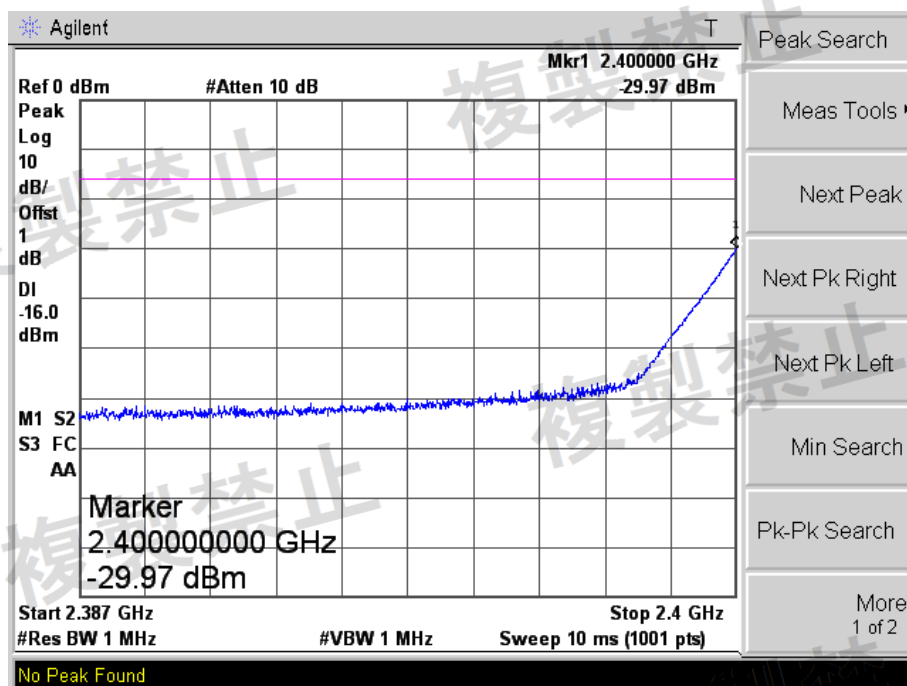
For BLE  
Low Channel (2402MHz):  
30-1000MHz



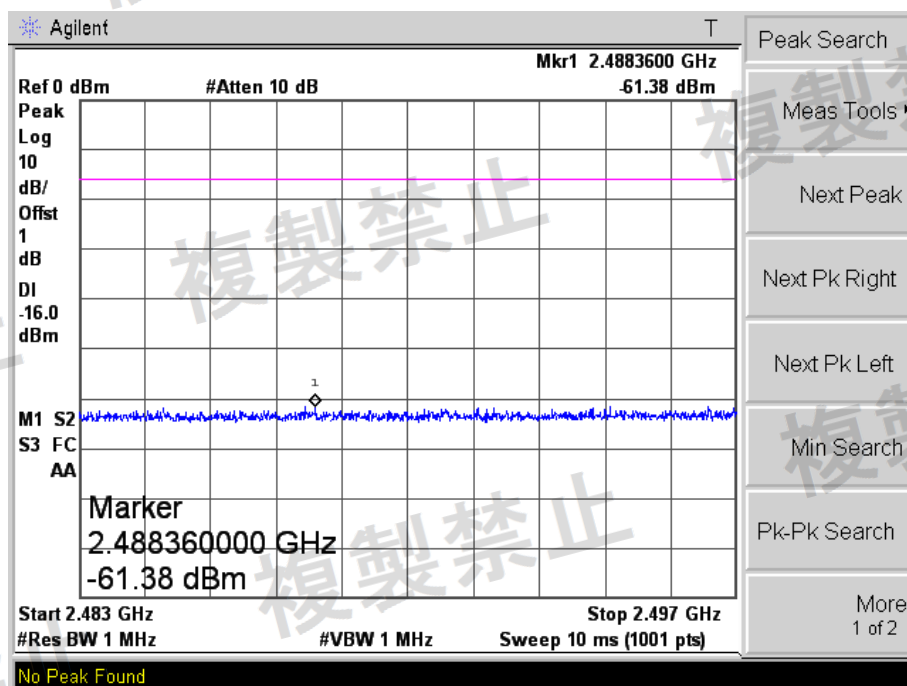
1000-2387MHz



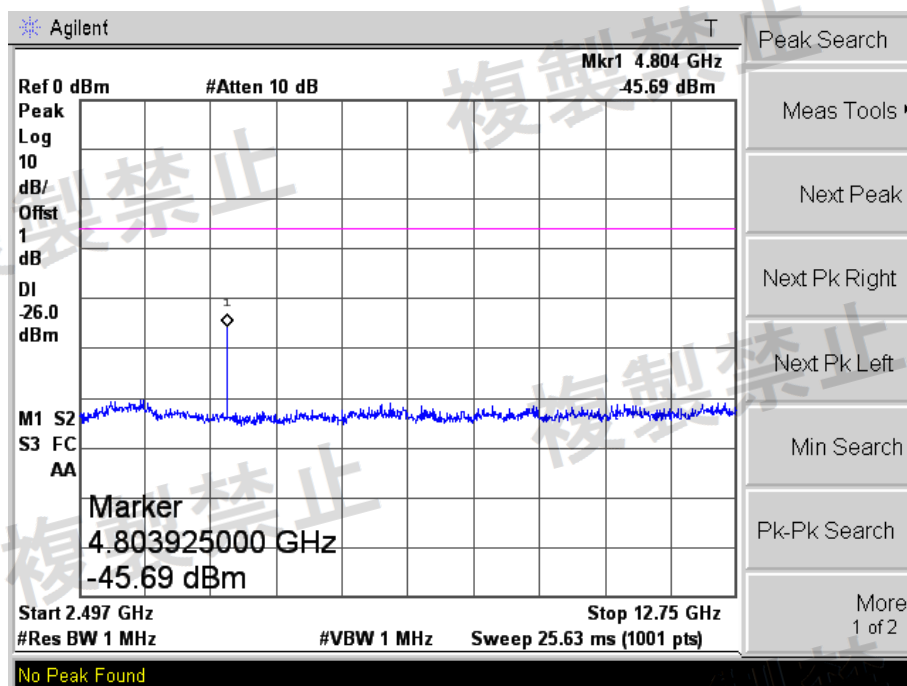
2387-2400MHz



2483.5-2496.5MHz

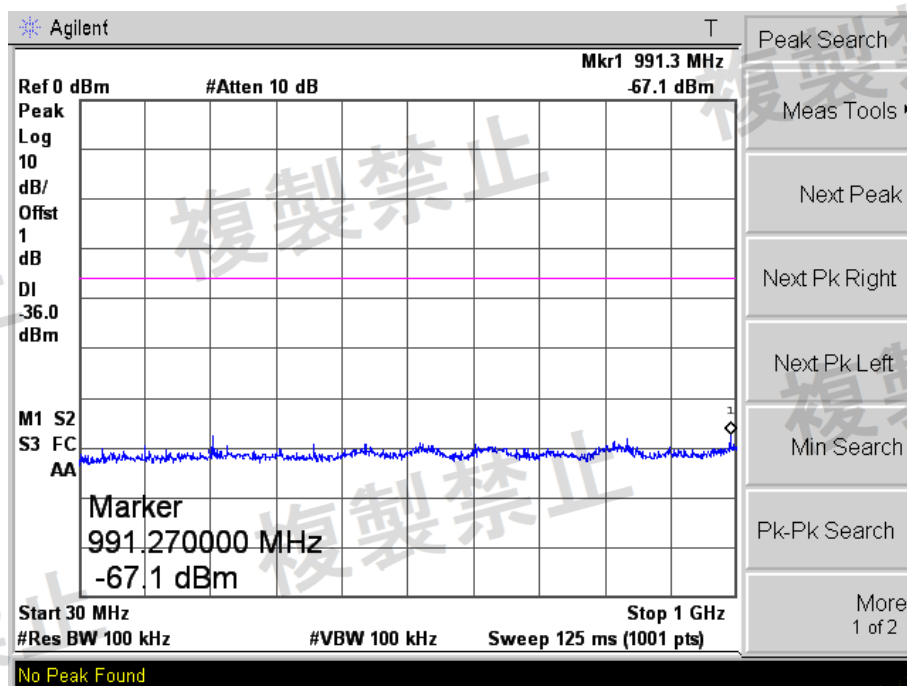


2496.5-12750MHz

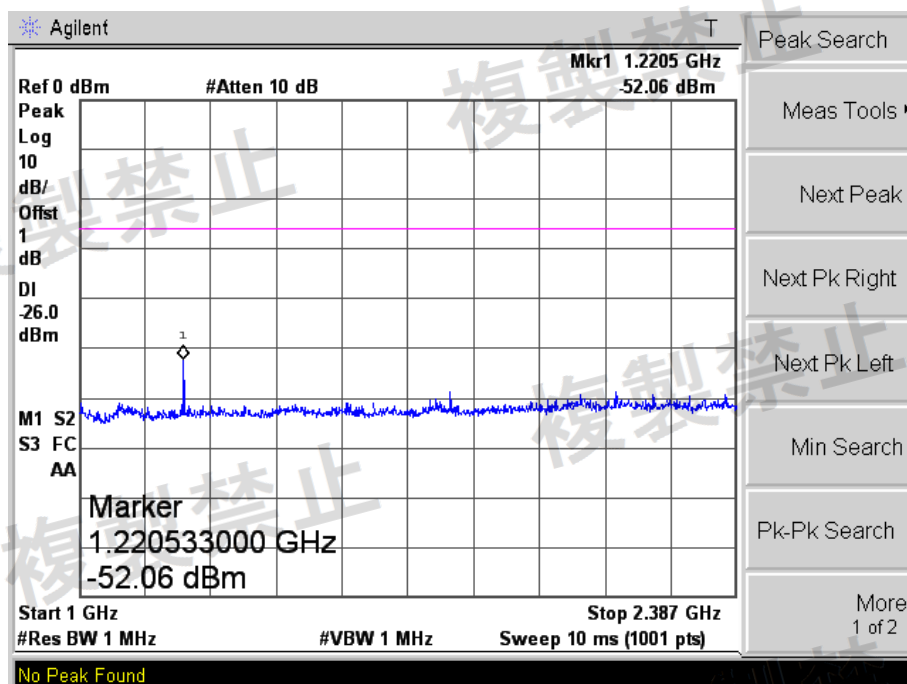


Middle Channel (2440MHz):

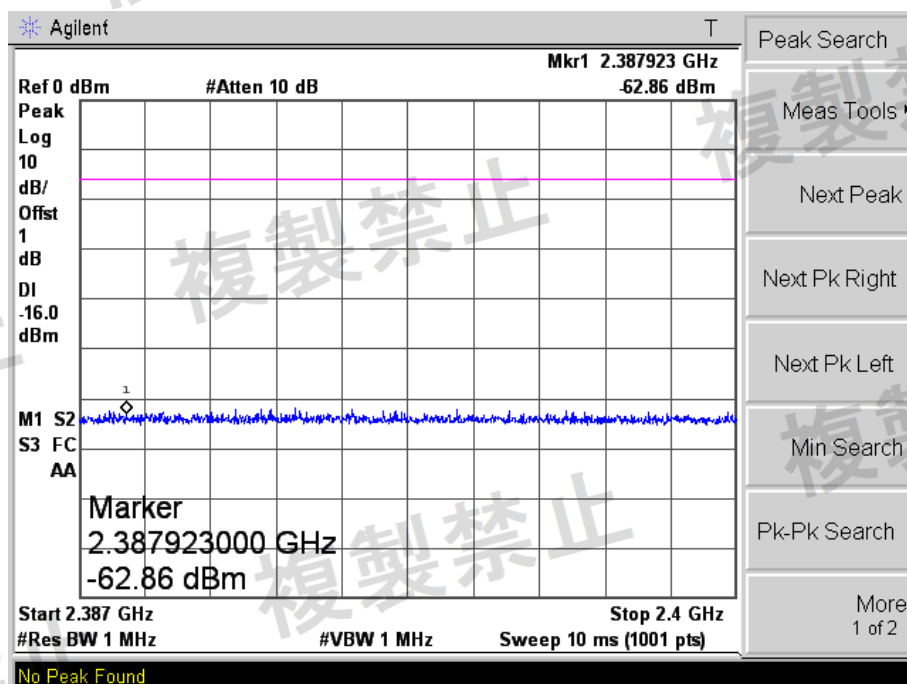
30-1000MHz



1000-2387MHz

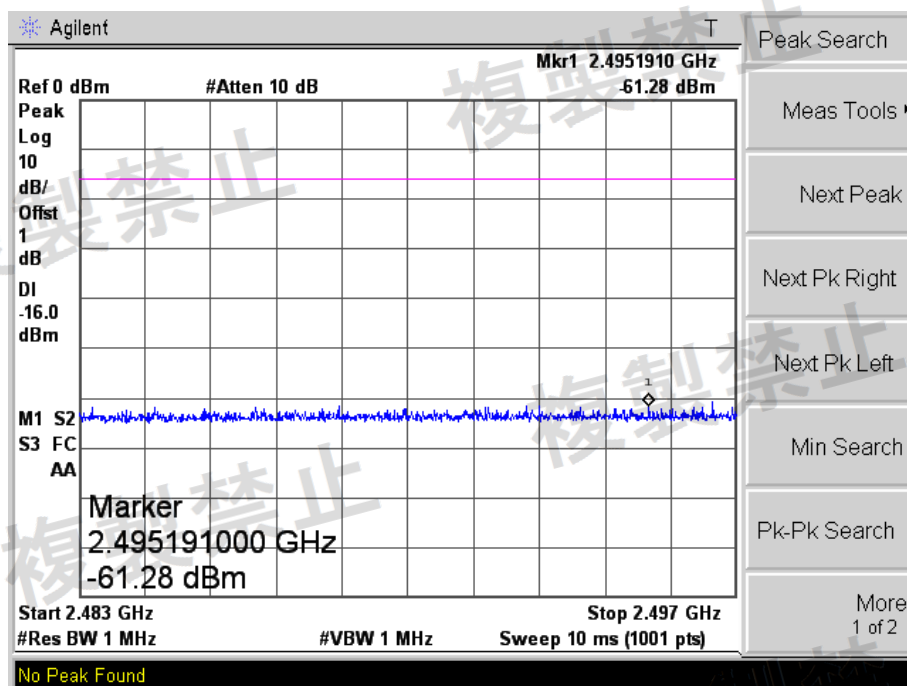


2387-2400MHz

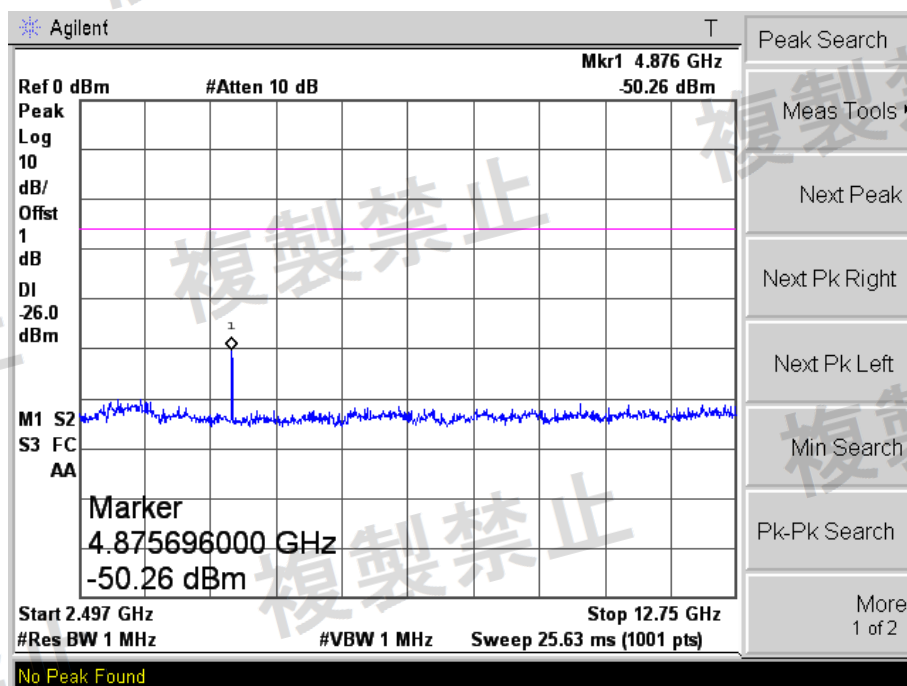




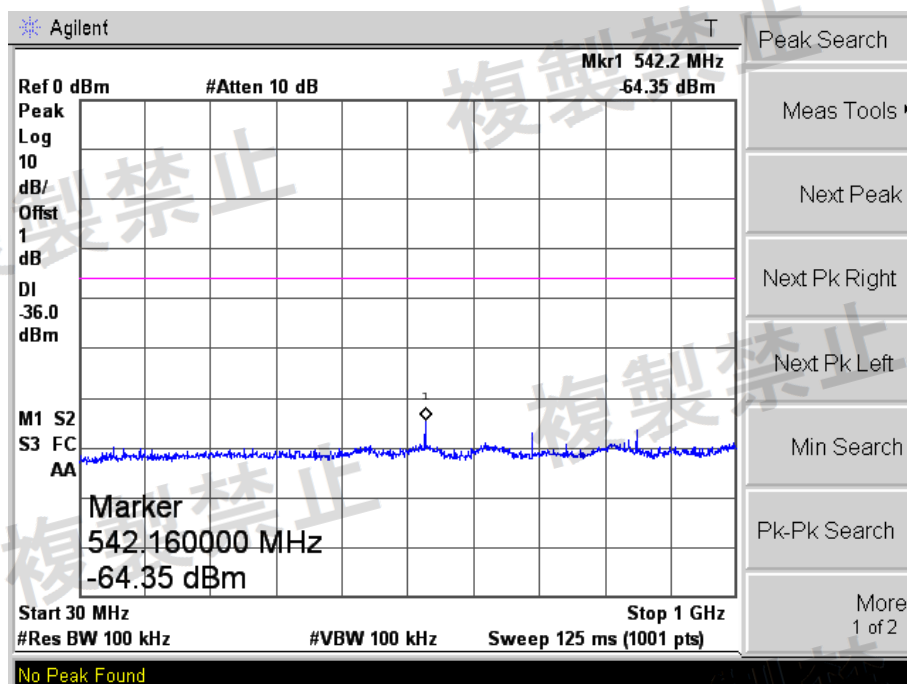
2483.5-2496.5MHz



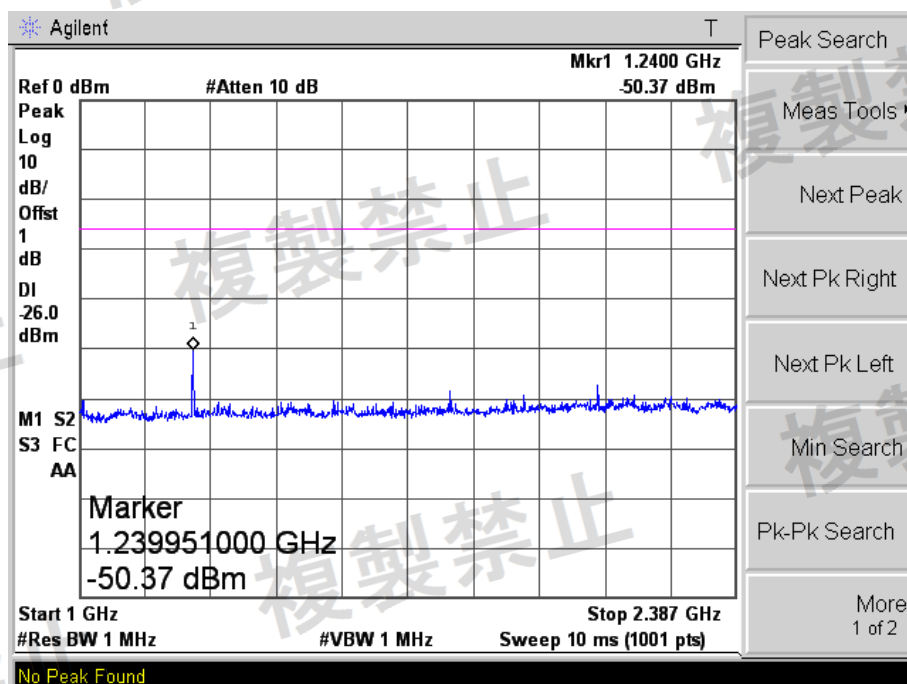
2496.5-12750MHz



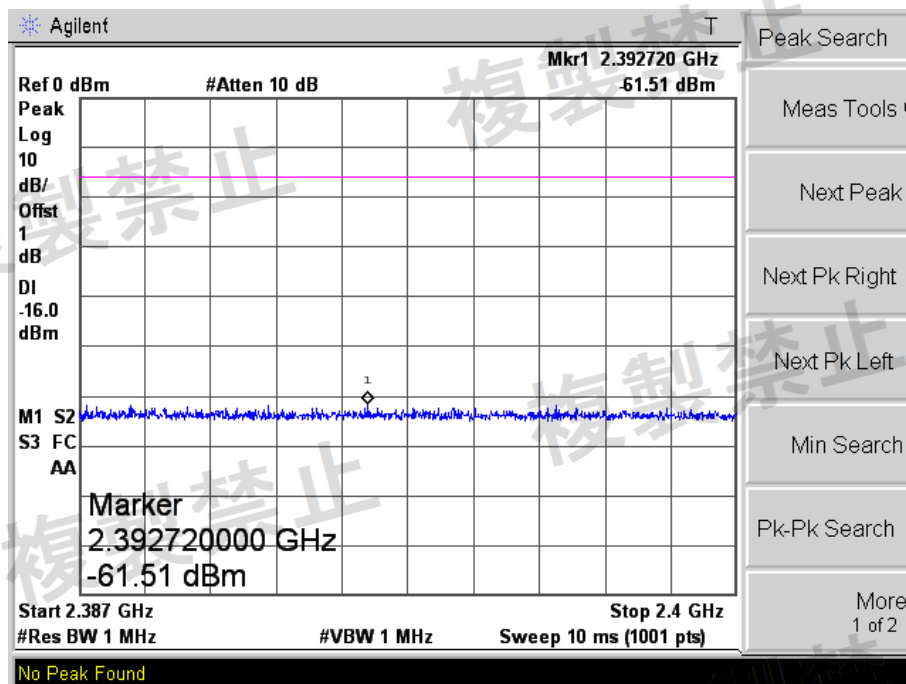
High Channel (2480MHz):  
30-1000MHz



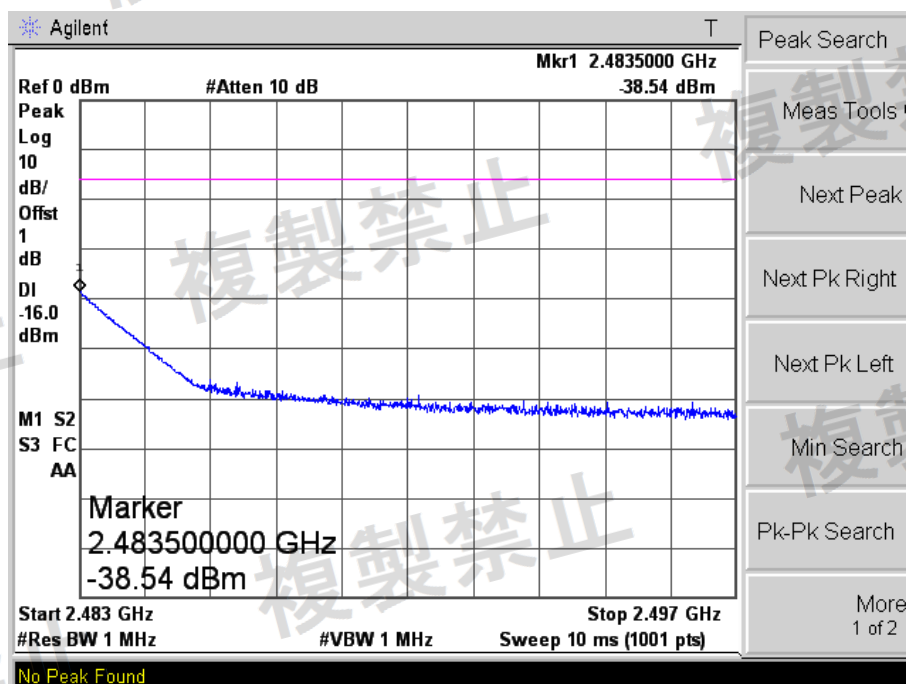
1000-2387MHz



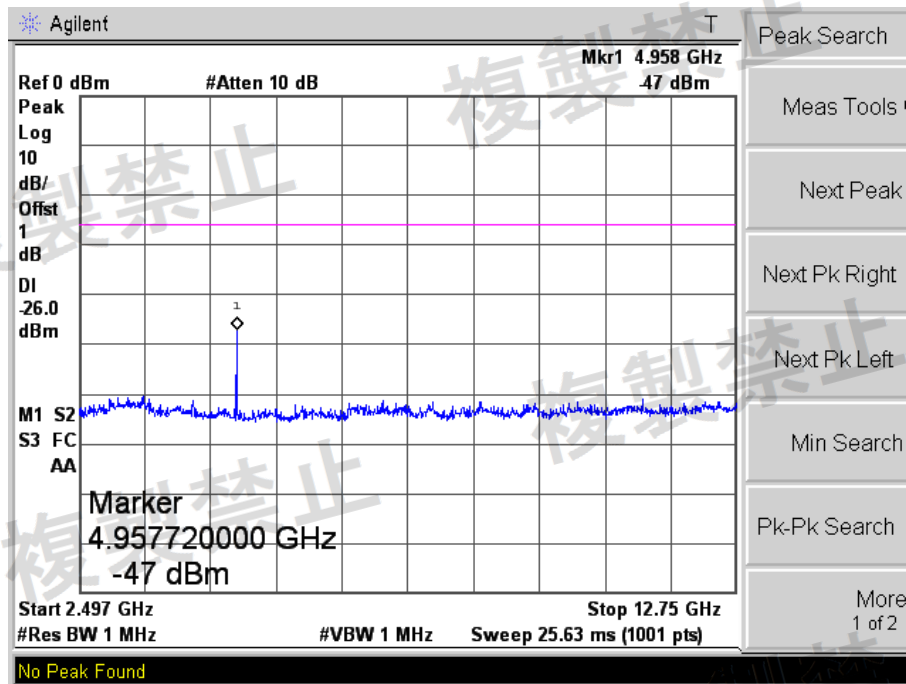
2387-2400MHz



2483.5-2496.5MHz



2496.5-12750MHz



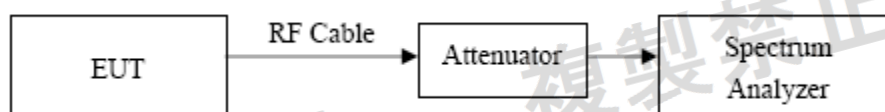
## 7. RECEIVER SPURIOUS EMISSIONS

### 7.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The receiver spurious emissions shall not exceeded the following limit:

- (1) Below 1GHz : 4nW/100kHz
- (2) 1GHz or higher : 20nW/MHz

### 7.2 Test Setup Block Diagram



### 7.3 Test Procedure

- (1) A spectrumIn case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

### 7.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

### 7.5 Summary of Test Results/Plots

For BLE

Receiver Spurious Emissions:

Frequency Range (MHz)	Maximum Spurious Emission Value (dBm/100kHz)	Limit (dBm/100kHz)
Test Mode: Low Channel (2402MHz)		
30-1000	-81.25	-54
Test Mode: Middle Channel (2440MHz)		
30-1000	-82.34	-54
Test Mode: High Channel (2480MHz)		
30-1000	-82.34	-54

Frequency Range (MHz)	Maximum Spurious Emission Value (dBm/MHz)	Limit (dBm/MHz)
Test Mode: Low Channel (2402MHz)		
1000-12750	-69.66	-47
Test Mode: Middle Channel (2440MHz)		
1000-12750	-68.81	-47
Test Mode: High Channel (2480MHz)		
1000-12750	-69.00	-47

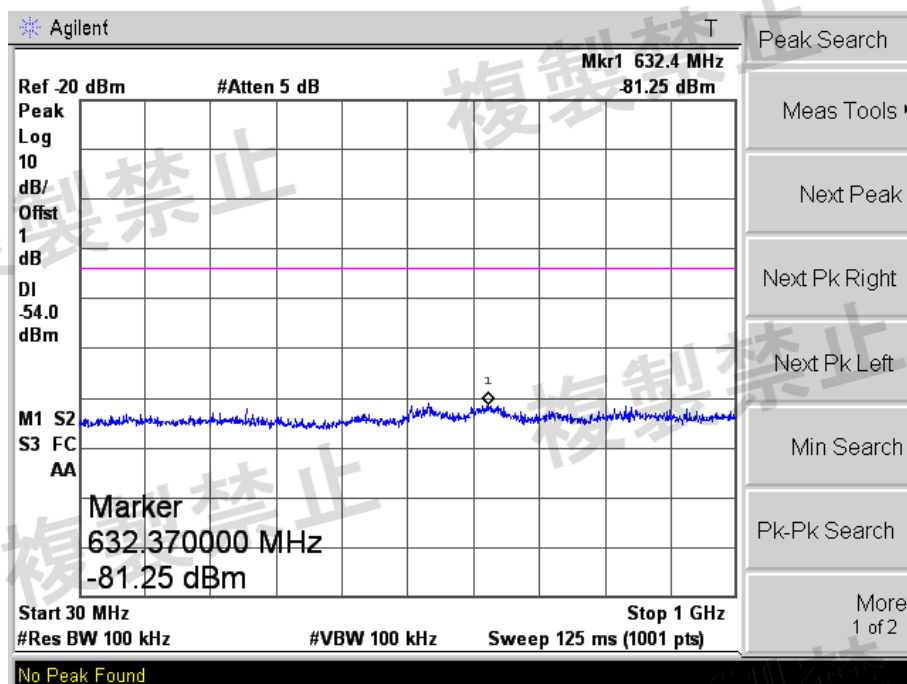
4nW/100kHz=-54dBm/100kHz

20nW/MHz=-47dBm/MHz

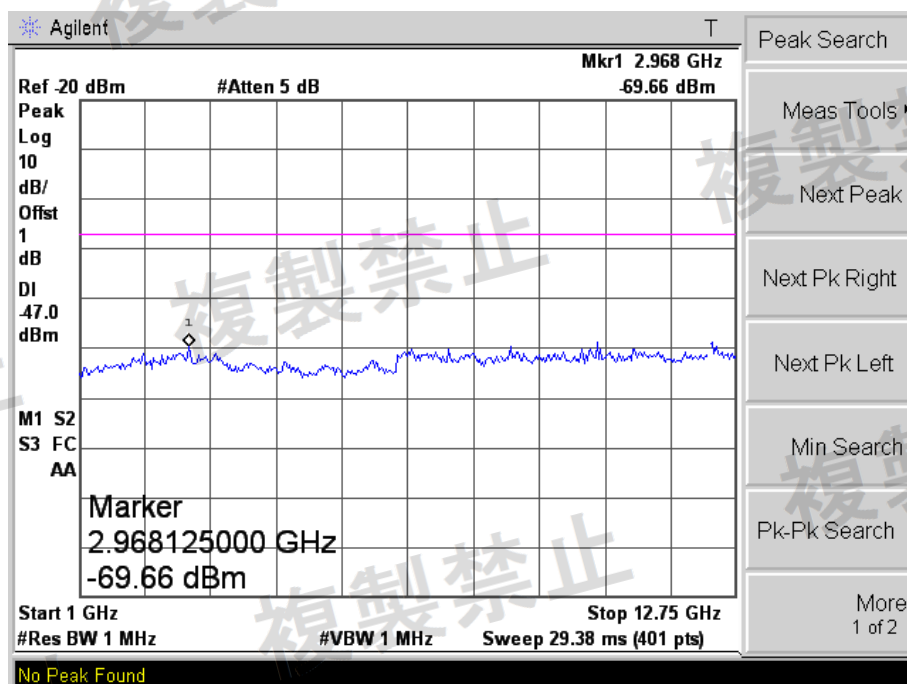
Please refer to the following test plots



For BLE  
Low Channel (2402MHz)  
30-1000MHz

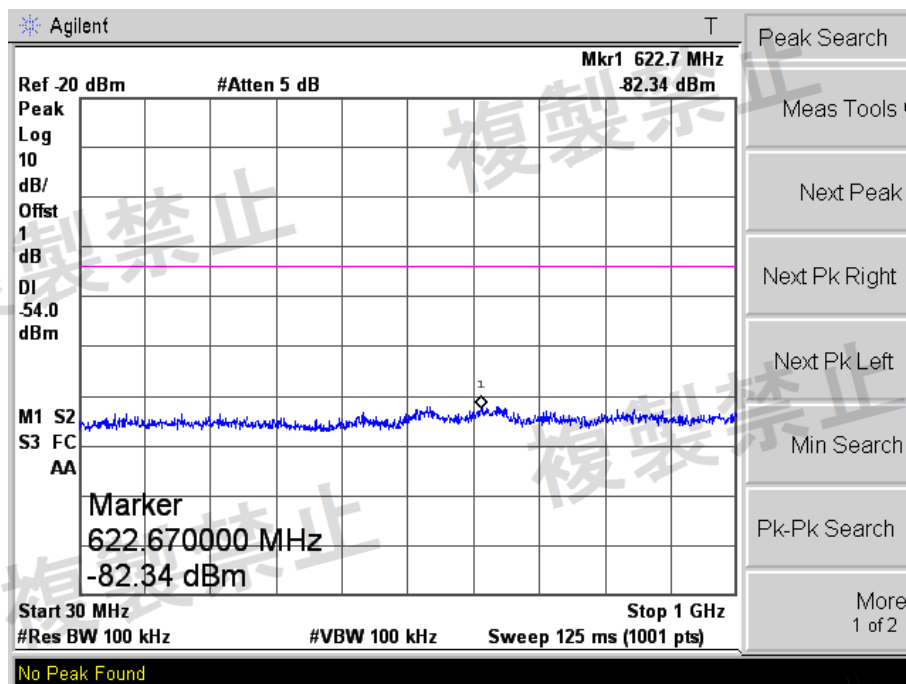


1-12.75GHz

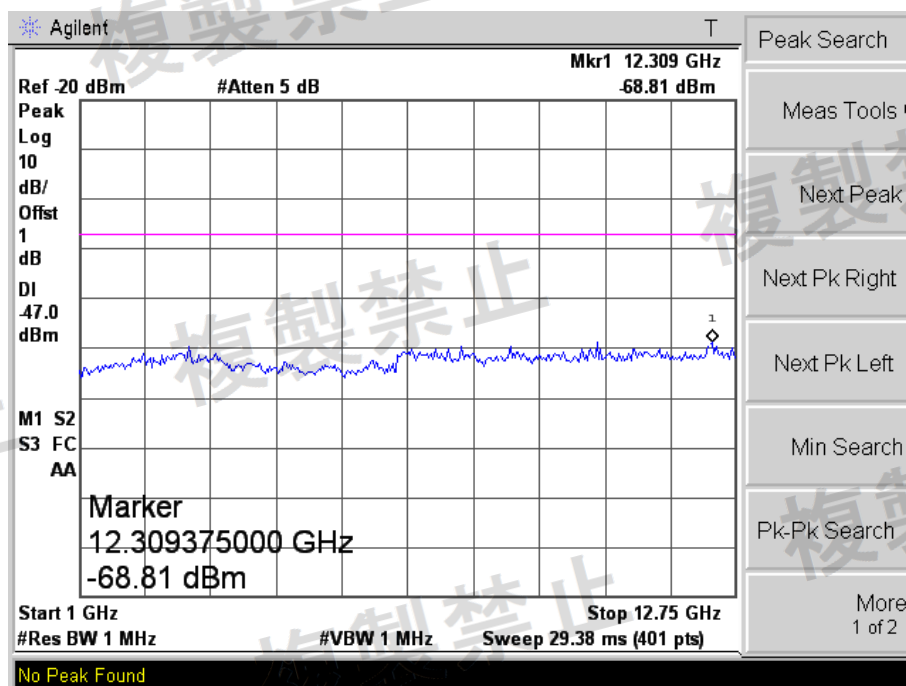


Middle Channel (2440MHz)

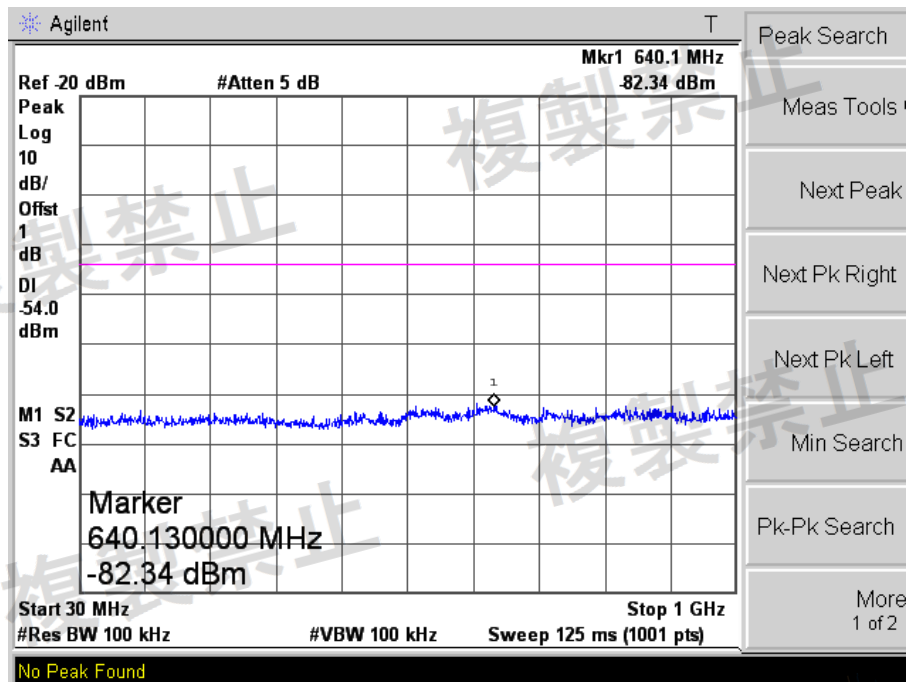
30-1000MHz



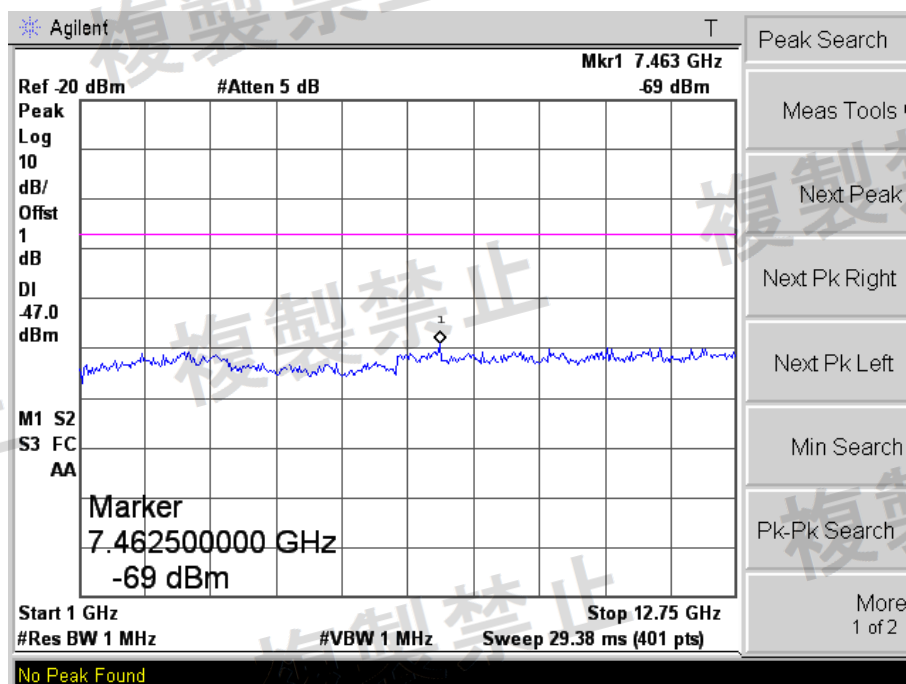
1-12.75GHz



High Channel (2480MHz)  
30-1000MHz



1-12.75GHz

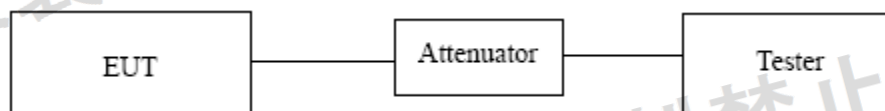


## 8. INTERFERENCE PREVENTION FUNCTION

### 8.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

### 8.2 Test Setup Block Diagram



### 8.3 Test Procedure

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
  - A. Transmit the assigned identification code from the radio equipment.
  - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
  - A. Transmit the assigned identification code from the opposite equipment.
  - B. Confirm that the usual communication is available.
  - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
  - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded.

### 8.4 Summary of Test Results/Plots

Test Item	Test Result
Transmitting Function of Identification Code	>48 bits
Receiving Function of Identification Code	>48 bits

\*\*\*\*\* END OF REPORT \*\*\*\*\*