

# JAPAN MIC

## Radio Test Report

FOR

**Applicant:** Acer Being Signage (Taiwan) Inc.  
7F.-5, No.369, Fuxing N. Rd., Songshan Dist., Taipei City 105,  
Taiwan (R.O.C.)

**Product Name:** Smart Computer Stick

**Brand Name:** acer / BYOC

**Model No.:** ABS-3G1

**Model Difference:** N/A

**Report Number:** E2/2018/70011-01

**Issue Date:** Sep. 10, 2019

**Date of Test:** Jul. 02, 2018~ Jul. 23, 2018

**Date of EUT Received:** Jul. 02, 2018

**Place of Testing** No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

**Test Result** PASS

**Classification of Specified Radio Equipment** Article 2 Clause 1 Item 19

**We hereby declare that:**

The data presented with this application to be true and correct; and That our testing equipment is regularly serviced and properly calibrated; and We agree to maintain records of data for a minimum of ten (10) years in our laboratory for immediate presentation upon request by Telefication B.V..

**Measurement was conducted by the following test method:**

the test method of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 43 of Article 88, Paragraph 1 or the test method more than equivalent.

Tested By:

Aken Huang / Engineer

Approved By:

Jim Chang / Manager

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## Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/70011	Rev.00	Initial creation of document	All	Jul. 30, 2018	Stefanie Yu / Clerk
E2/2018/70011-01	Rev.00	Updated Measurement Equipment List	8	Sep. 10, 2019	Stefanie Yu / Clerk

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 General information

#### General:

Product Name:	Smart Computer Stick	
Brand Name:	acer / BYOC	
Model No.:	ABS-3G1	
Model Difference:	N/A	
Product HW version:	N/A	
Product SW version:	N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	1. Model No.: FSP036-RBBN2, Supplier: FSP GROUP INC. 2. Model No.: DA-36A12, Supplier: Asian Power Devices Inc.

Type, frequency of  
transmittable radio wave  
and rated output

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)  
2.7797 mW

#### Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
PIFA	N/A	N/A	H+V	-2.44

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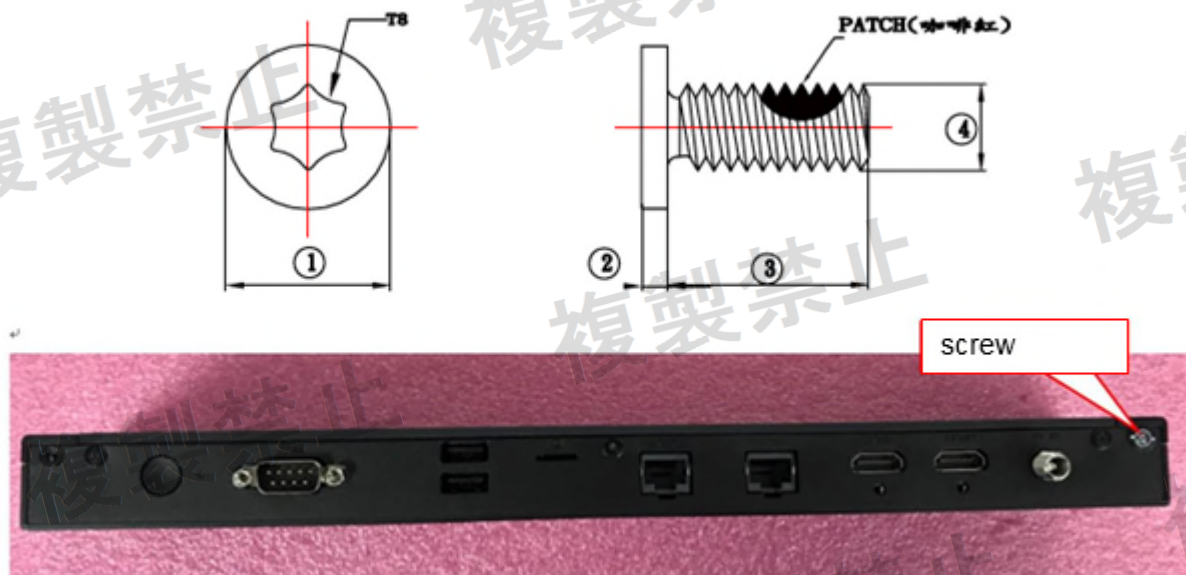
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## 1.2 Assemble

- 2 Two housings are combined inaccessible by one special screw. The plastic housing will be destroyed when trying to open.



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## 2 DESCRIPTION OF TEST

Environment of Test Room	Temperature	24	°C
	Humidity	63	%

Peak Antenna Gain	-2.44	dBi
Rated output	2.780	mW
Rated output	4.4400	dBm
<b>E.I.R.P.</b>	<b>2.0000</b>	<b>dBm</b>
Input Voltage	12	VDC

Tested Circuit Insertion Loss		10.8	dB
Burst	ON TIME	0.0003904	sec
	OFF TIME	0.0002336	sec
	Ratio	62.56	%
Packet Type (Mode)		BT LE	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System
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The reason why test are performed only rated voltage
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

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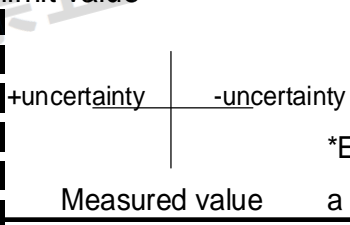
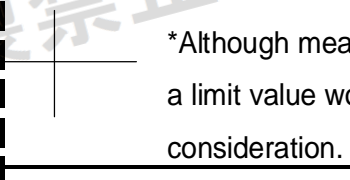
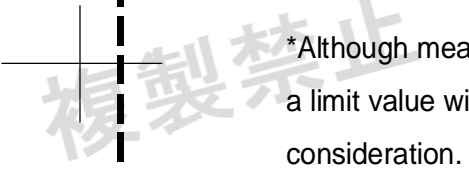
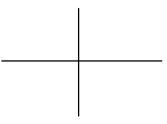
### 3 ABOUT UNCERTAINTY OF MEASURED VALUE

\*In this test, the influence of an error or uncertainty may be done according to the following factors.

- Bias of a measurement equipment, Change by aging, Attrition, Noise
- Skill and capability of an inspector
- Environment (Temperature, Humidity)
- Dispersion in a EUT (Equipment Under Test)
- Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

JUDGE	Measured value and Standard limit value	
PASS	Case1	 <p>*Even if it takes uncertainty into consideration, a standard limit value is fulfilled.</p>
	Case2	 <p>*Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.</p>
FAIL	Case3	 <p>*Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.</p>
	Case4	 <p>*Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.</p>

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**4 MEASUREMENT EQUIPMENT LIST****Output power**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibration Authority	LAST CAL.	CAL DUE.	Cal. Method
Power Meter	Anritsu	ML2496A	1326001	ETC	2017/07/26	2018/7/25	c)
Power Sensor	Anritsu	MA2411B	1315048	ETC	2017/07/26	2018/7/25	c)
Power Sensor	Anritsu	MA2411B	1315049	ETC	2017/07/26	2018/7/25	c)
Attenuator	Marvelous	MVE2213-10	RF31	SGS	2017/12/26	2018/12/25	c)

**Conducted**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibration Authority	LAST CAL.	CAL DUE.	Cal. Method
Spectrum Analyzer	keysight	N9010A	MY51440113	ETC	2018/06/20	2019/6/19	c)
Attenuator	Marvelous	MVE2213-10	RF31	ETC	2017/12/26	2018/12/25	c)
DC Block	PASTERNA CK	PE8210	RF81	SGS	2017/12/26	2018/12/25	c)

**Note 1:** The validity of measurement equipment is one year from the first day of the following month of the calibration date.

(e.g. If the calibration date is December 15th, 2014, measurement equipment can be used from December 15th, 2014 to December 31st, 2015.)

**Note 2:** Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d): Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

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## 5 TEST RESULTS:

Measurement Frequency		MHz	2402	2442	2480	Result	NOTES
Channel Number		Ch.	0	20	39	-----	
Reading Frequency		MHz	2401.97431	2441.96708	2479.96018	-----	
Frequency Tolerance		ppm	-10.69525	-13.48075	-16.05645	PASS	
Occupied Bandwidth		MHz	1.3325	1.3363	1.3405	PASS	
Spread Bandwidth		MHz	-	-	-	-	-
RF Output Power		mW	2.767	1.000	2.780	PASS	
		dBm	4.420	0.000	4.440		
RF Output Power Tolerance		%	-0.46	-64.03	0.00	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.005559	0.002000	0.002355	PASS	
		dBm/MHz	-52.55	-56.99	-56.28		
		MHz	2354.06	2346.26	2384.05		
	2387-2400MHz	μW/MHz	4.742420	0.009750	0.001746	PASS	
		dBm/MHz	-23.24	-50.11	-57.58		
		MHz	2399.99	2393.94	2390.77		
	2483.5-2496.5MHz	μW/MHz	0.003133	0.009817	0.009484	PASS	
		dBm/MHz	-55.04	-50.08	-50.23		
		MHz	2495.13	2489.77	2483.66		
	2496.5 - 26.5GHz	μW/MHz	0.069502	0.034754	0.017906	PASS	
		dBm/MHz	-41.58	-44.59	-47.47		
		MHz	3203.00	3255.52	3306.78		
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW/MHz	0.4667	0.5358	0.5649	PASS	
		dBm/MHz	-63.31	-62.71	-62.48		
		MHz	93.17	101.66	101.66		
	1 - 12.5GHz	nW/MHz	0.8710	0.3524	0.2818	PASS	
		dBm/MHz	-60.60	-64.53	-65.50		
		MHz	1892.69	3892.25	4864.00		
Interference Prevention Function		-----	Good			PASS	

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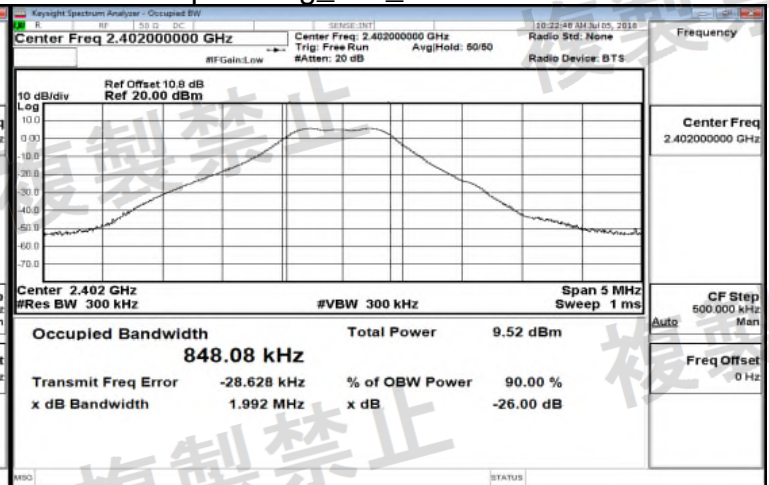
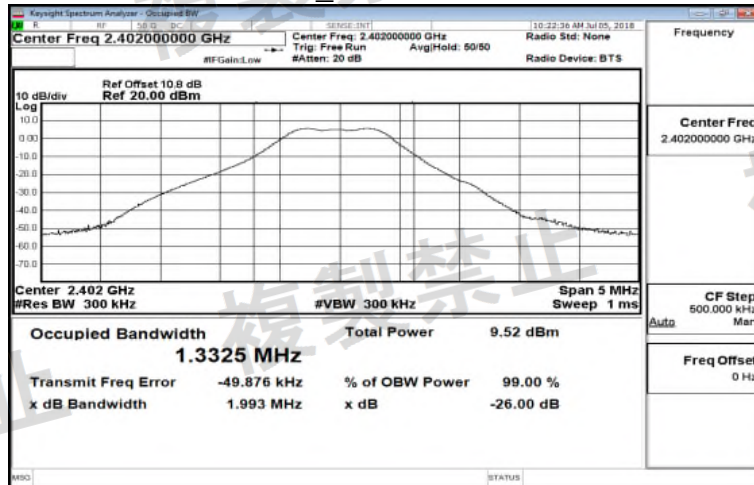
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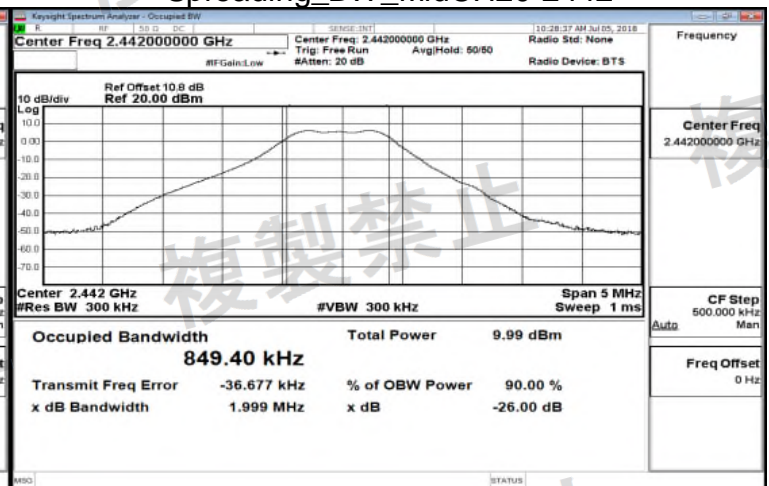
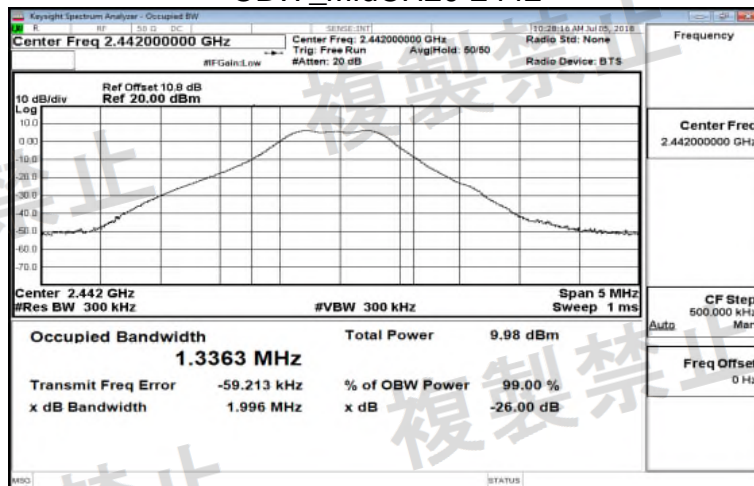
## OBW\_LowCH0-2402

## Spreading\_BW\_LowCH0-2402



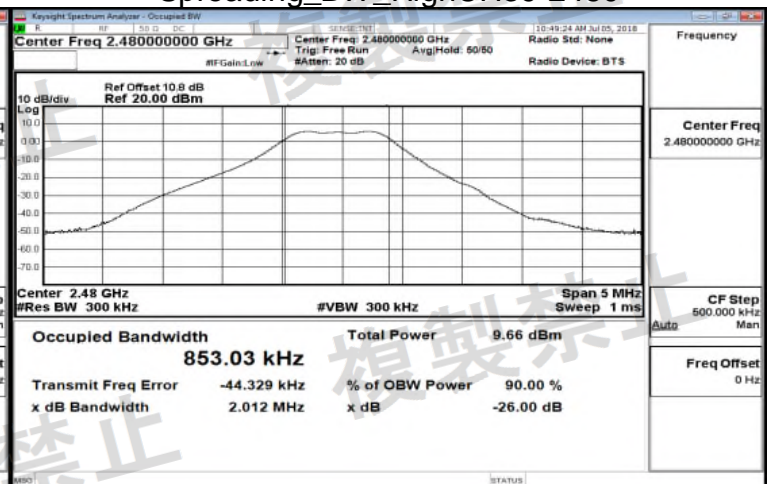
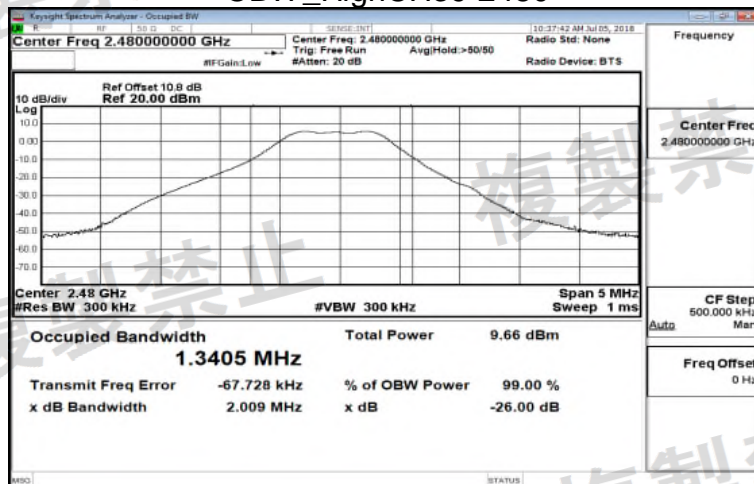
## OBW\_MidCH20-2442

## Spreading\_BW\_MidCH20-2442



## OBW\_HighCH39-2480

## Spreading\_BW\_HighCH39-2480

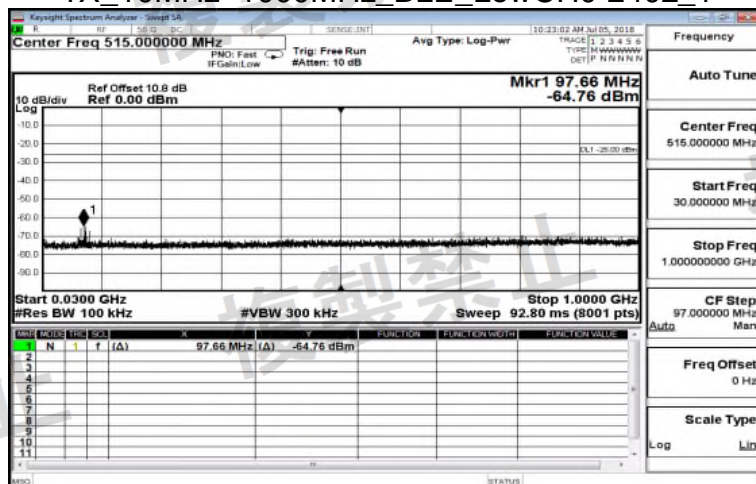


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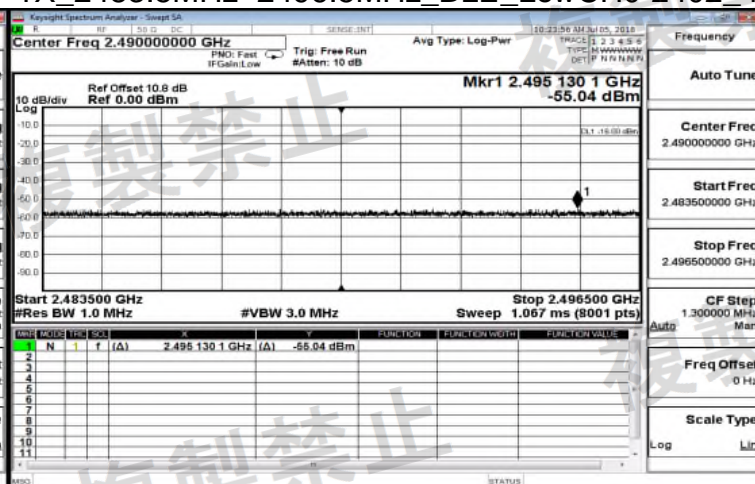
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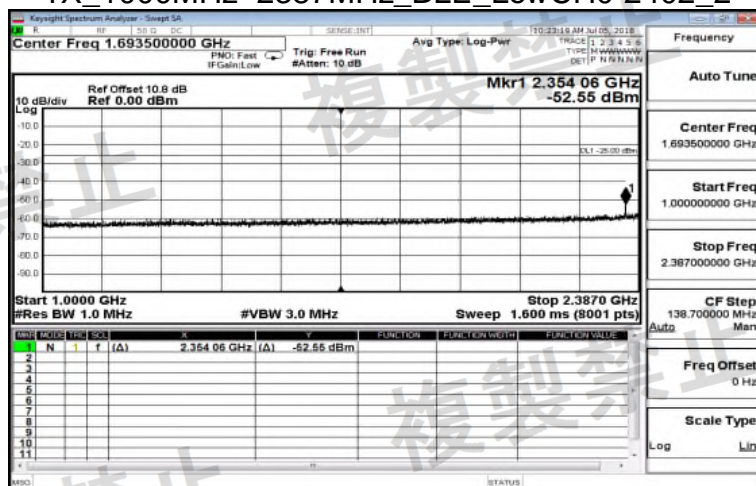
TX 10MHz~1000MHz BLE LowCH0-2402 1



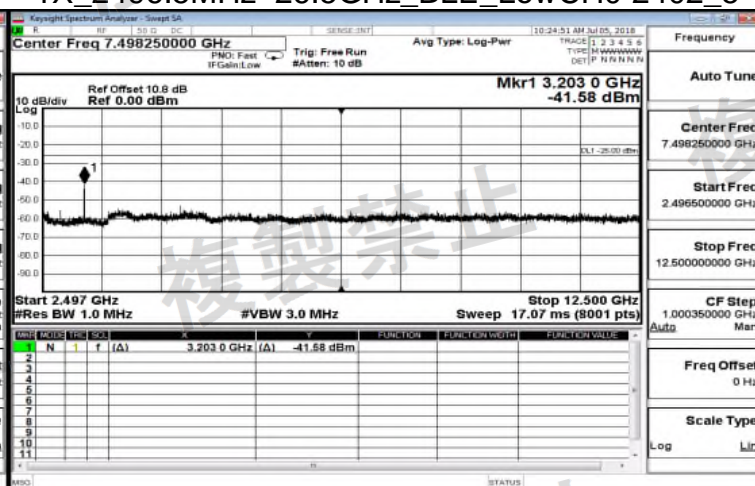
TX 2483.5MHz~2496.5MHz BLE LowCH0-2402 4



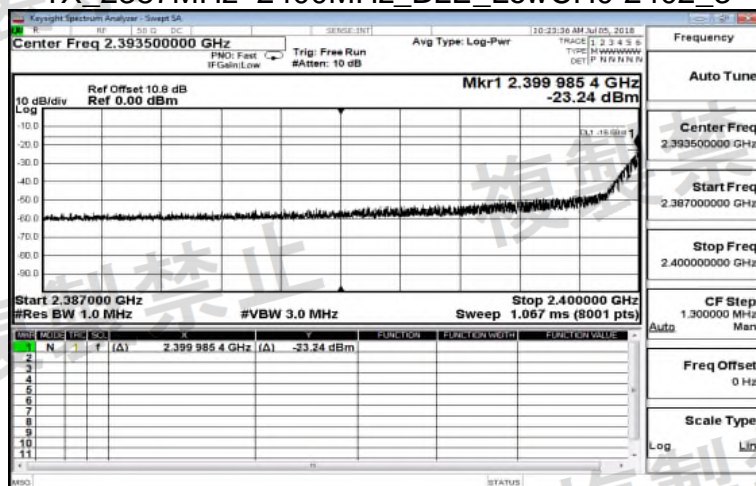
TX 1000MHz~2387MHz BLE LowCH0-2402 2



TX 2496.5MHz~26.5GHz BLE LowCH0-2402 5



TX 2387MHz~2400MHz BLE LowCH0-2402 3

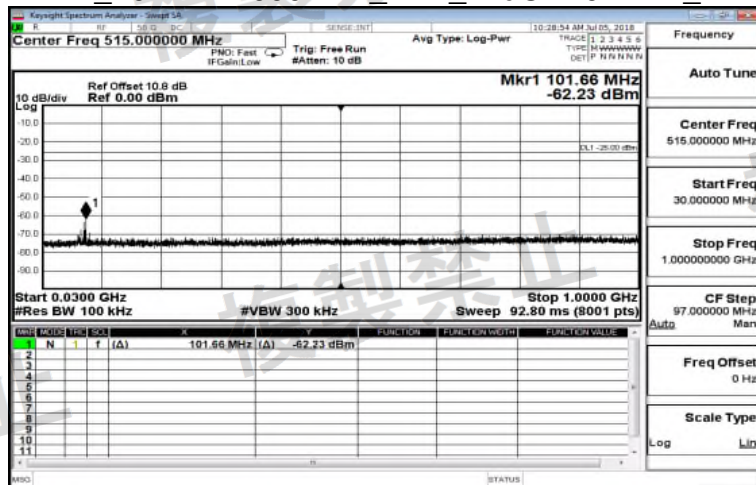


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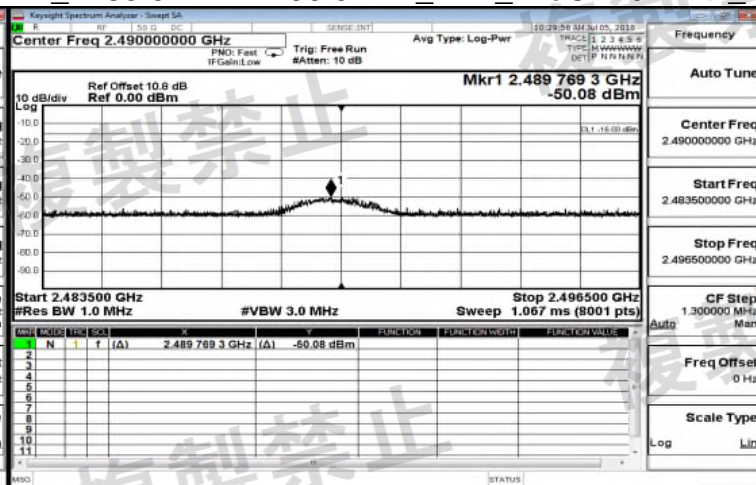
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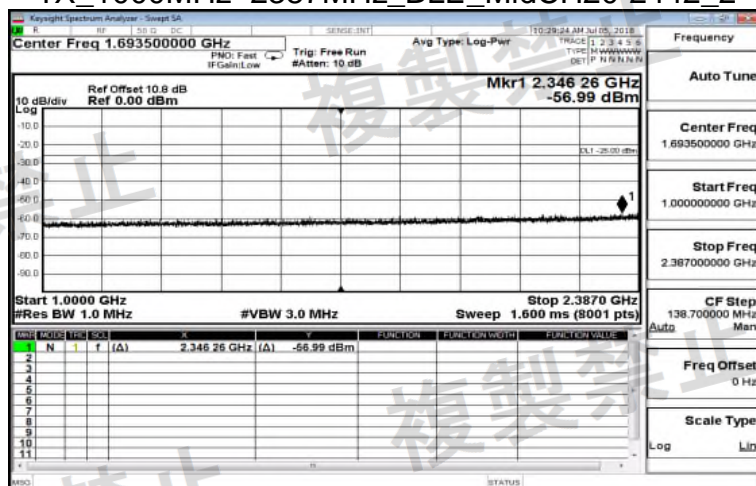
TX\_10MHz~1000MHz\_BLE\_MidCH20-2442\_1



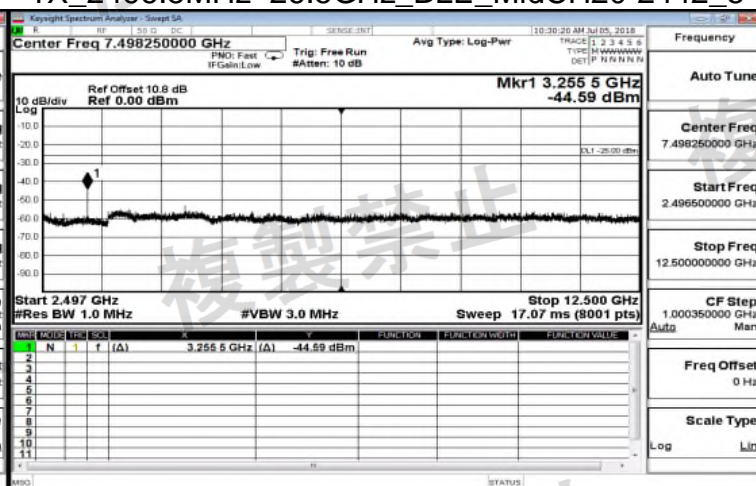
TX\_2483.5MHz~2496.5MHz\_BLE\_MidCH20-2442\_4



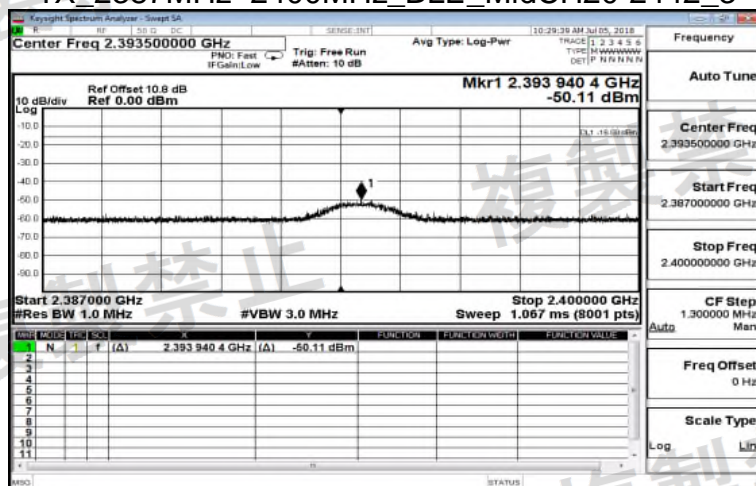
TX\_1000MHz~2387MHz\_BLE\_MidCH20-2442\_2



TX\_2496.5MHz~26.5GHz\_BLE\_MidCH20-2442\_5



TX\_2387MHz~2400MHz\_BLE\_MidCH20-2442\_3

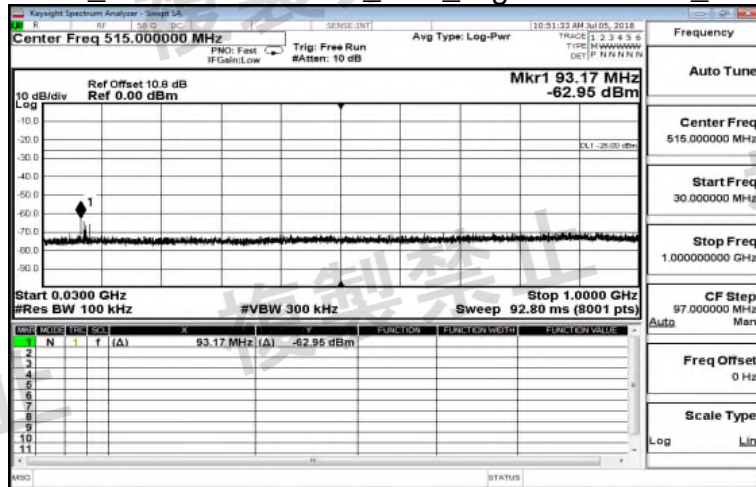


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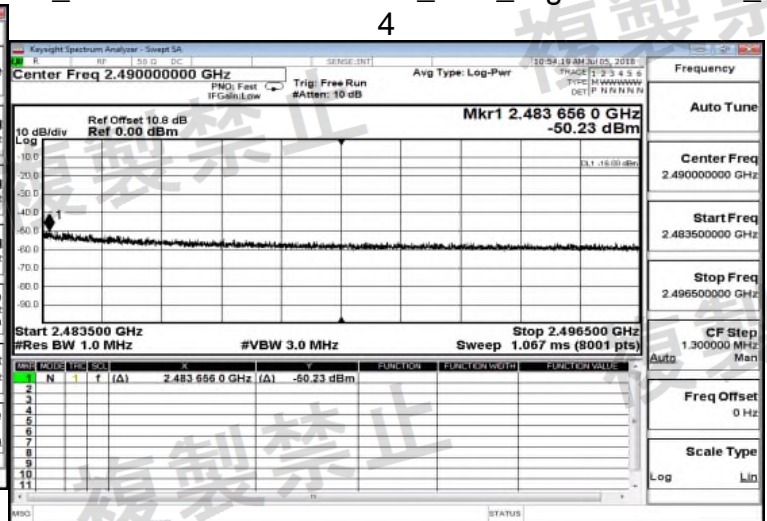
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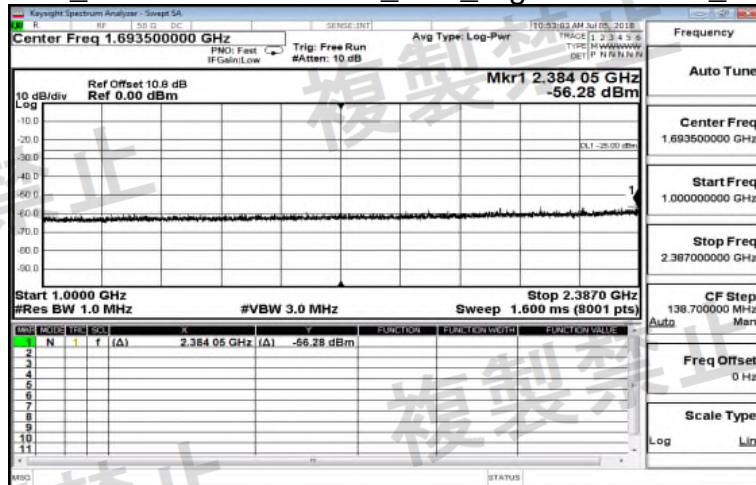
TX\_10MHz~1000MHz\_BLE\_HighCH39-2480\_1



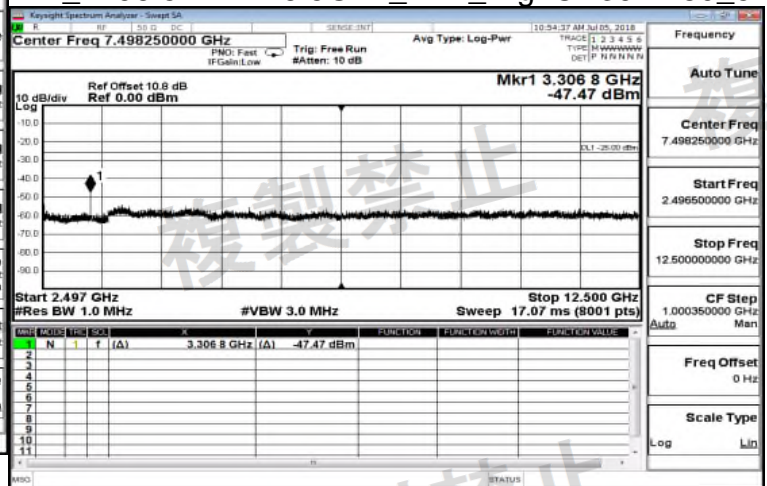
TX\_2483.5MHz~2496.5MHz\_BLE\_HighCH39-2480\_4



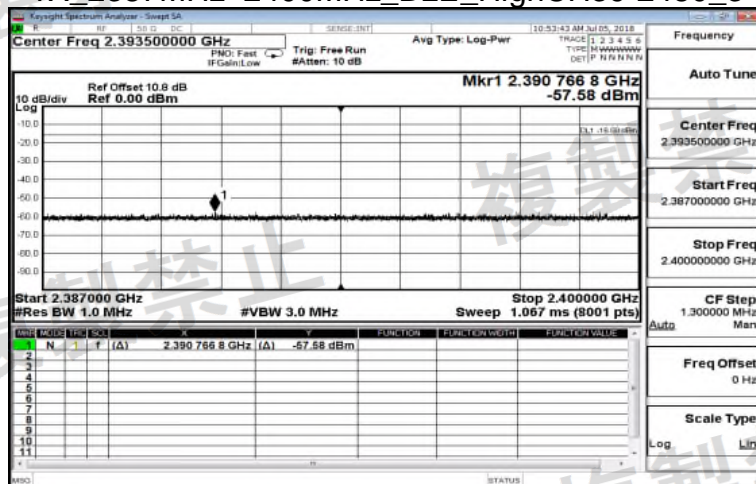
TX\_1000MHz~2387MHz\_BLE\_HighCH39-2480\_2



TX\_2496.5MHz~26.5GHz\_BLE\_HighCH39-2480\_5



TX\_2387MHz~2400MHz\_BLE\_HighCH39-2480\_3

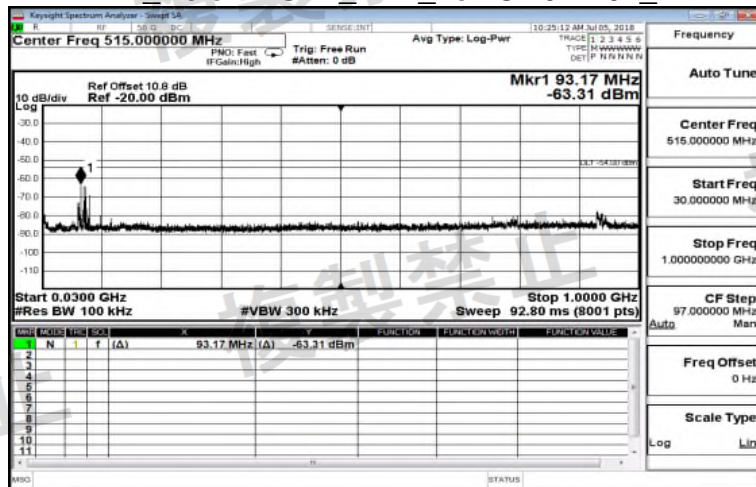


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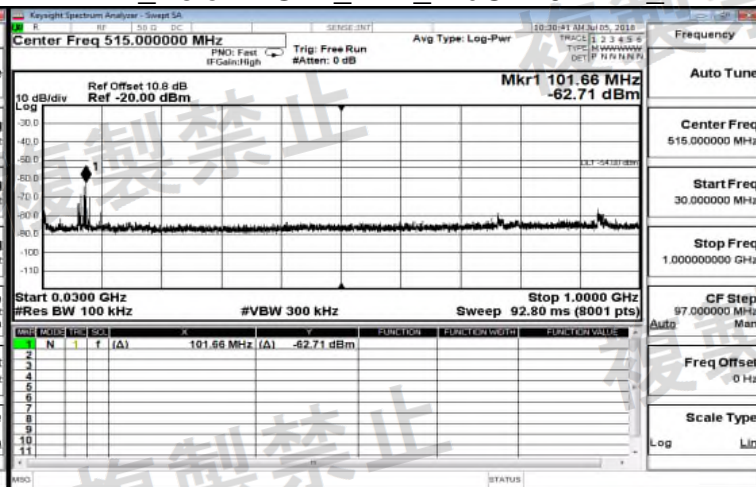
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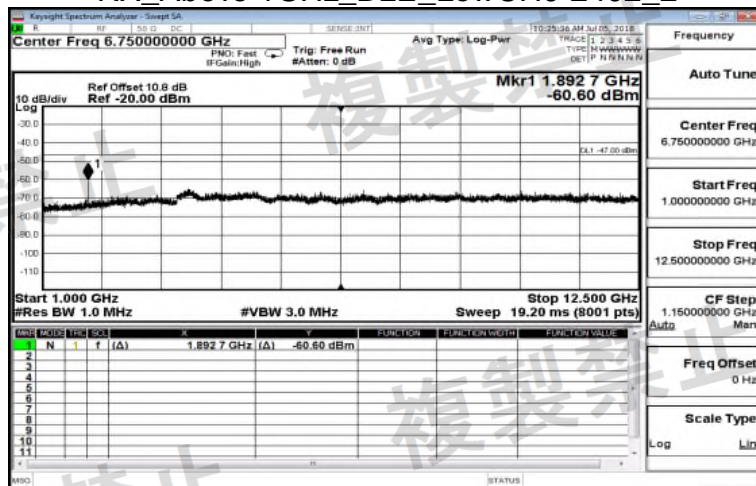
RX\_Below 1GHz\_BLE\_LowCH0-2402\_1



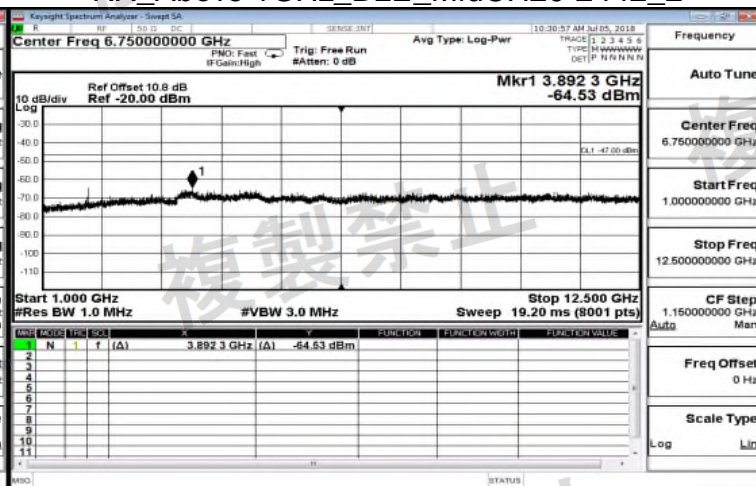
RX\_Below 1GHz\_BLE\_MidCH20-2442\_1



RX\_Above 1GHz\_BLE\_LowCH0-2402\_2



RX\_Above 1GHz\_BLE\_MidCH20-2442\_2

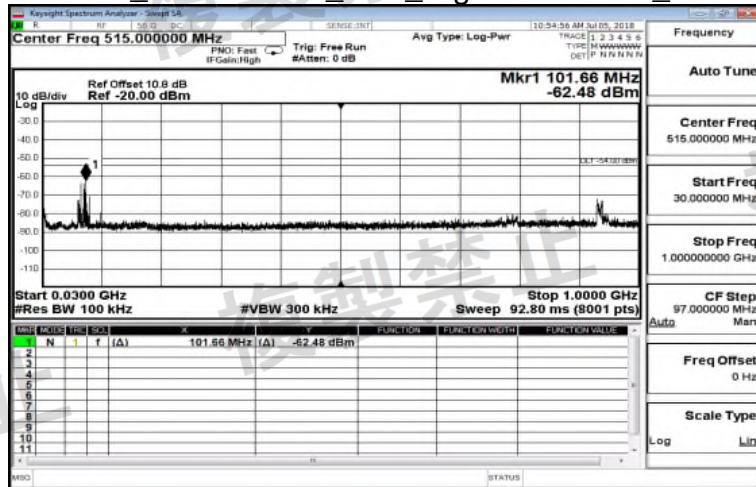


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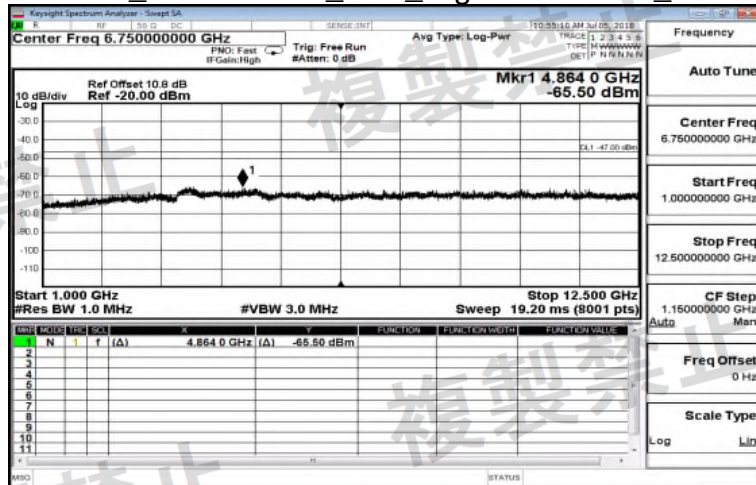
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## RX\_Below 1GHz\_BLE\_HighCH39-2480\_1



## RX\_Above 1GHz\_BLE\_HighCH39-2480\_2

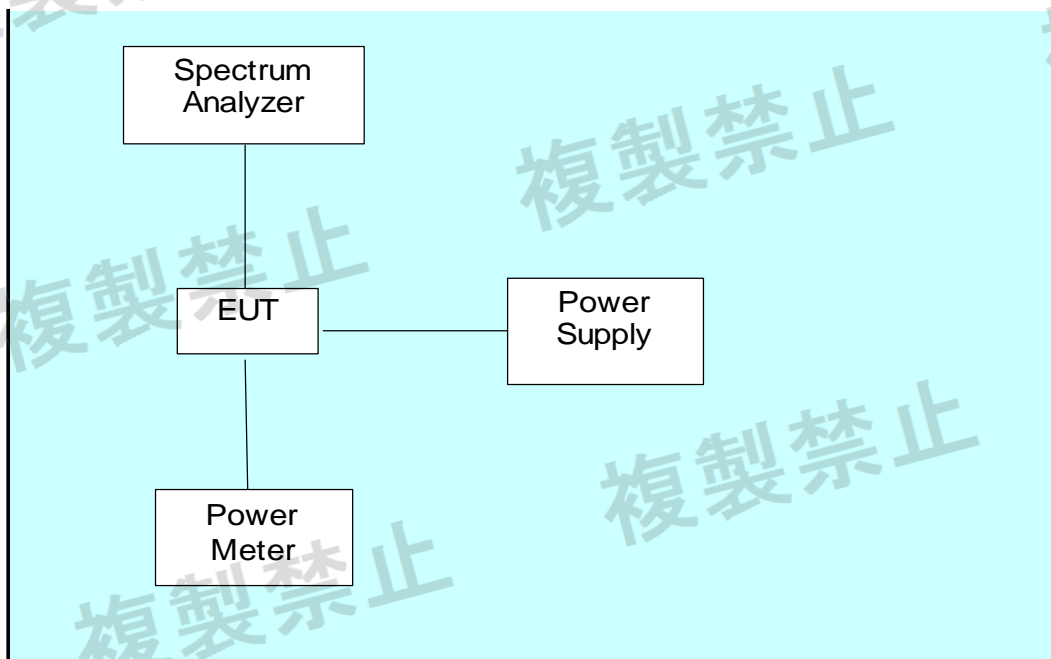


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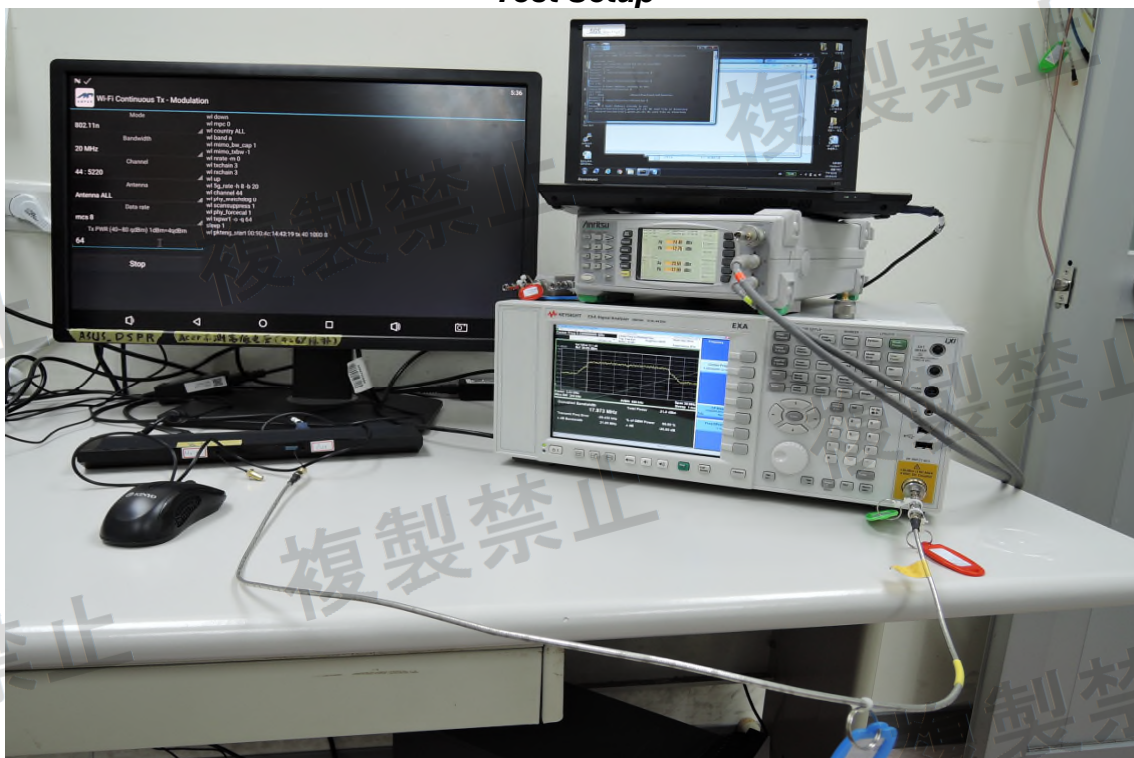
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## PHOTOGRAPHS OF SET UP



Test Setup



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**PHOTOGRAPHS OF EUT**

Please refer to the attached file(EUT Photo)

~ End of Report ~

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