

TEST REPORT

Product Name : Tablet Receiver
Trade mark : PIONEER/Carrozzeria
Mode No. : SDA-835TAB/XEES
Serial Number : SDA-8TAB/XEEU5、
SDA-80TAB/XEUR、
SDA-700TAB/XEJP
Report Number : BLA-BQB-201908-A28-02
Date of Issue : August. 26, 2019
Test standard : Item 19 of Article 2 Paragraph 1
Test result : PASS

Prepared for:

PIONEER CORPORATION

25-1 AZA-NISHIMACHI,YAMADA,KAWAGOE-SHI SAITAMA-KEN 350-8555,JAPAN

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
IOT Test Centre of BlueAsia No. 448 Bulong Road, Bantian Street,
Longgang District, Shenzhen
TEL: +86-755-2305 9481
FAX: +86-755-2305 9481

Compiled by:

Joon mr

Review by:

Brand - Wei

Approved by:

Emen - li

Date: August. 26, 2019



2 Version

Version No.	Date	Description
00	August. 26, 2019	Original

3 Test Summary

Test	Test Requirement	Limit/Severity	Result
Antenna Requirement	Item 19 of Article 2 Paragraph 1	Notice 88 Appendix 43,B-1 (1)&(2)	PASS
Test frequency	Item 19 of Article 2 Paragraph 1	Notice 88 Appendix 43, A-3	PASS
Frequency Error	Item 19 of Article 2 Paragraph 1	±50 PPM or less	PASS
Occupied Bandwidth	Item 19 of Article 2 Paragraph 1	83.5 MHz or less	PASS
Spread-spectrum Bandwidth	Item 19 of Article 2 Paragraph 1	500 kHz or more	PASS
Antenna Power	Item 19 of Article 2 Paragraph 1	Designated value: (1)FH, FH+DS , FH+OFDM 3mW/MHz (Used in the range of 427-2470.75MHz) (2) OFDM , DS other than (1) : 10mW/MHz (3) Other than (1) & (2) 10mW Tolerance: +20%,-80%	PASS
Spurious Emission of Tx	Item 19 of Article 2 Paragraph 1	(1) Below 2387 MHz : -26dBm (2) 2387 to 2400 MHz : -16dBm (3) 2483.5 through 2496.5 MHz : -16dBm (4) Over 2496.5 MHz : -26dBm	PASS
Dwell Time	Item 19 of Article 2 Paragraph 1	N/A	Reference
Pseudorandom Frequency Hopping Sequence	Item 19 of Article 2 Paragraph 1	Notice 88 Appendix 43, 44, 45	PASS
Interference prevention capability	Item 19 of Article 2 Paragraph 1	Notice 88 Appendix 43, 44, 45	PASS
RF accessibility	Item 19 of Article 2 Paragraph 1	Notice 88 Appendix 43, 44, 45	PASS
Spurious Emission of Rx	Item 19 of Article 2 Paragraph 1	(1) Below 1 GHz: -54dBm (2) 1GHz or higher: -47dBm	PASS

Remark:

Model No.: SDA-835TAB/XEES、SDA-8TAB/XEEU5、SDA-80TAB/XEUR、SDA-700TAB/XEJP

Only the model SDA-835TAB/XEES was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means the product in transmitting status.

Rx: In this whole report Rx (or rx) means the product in receiving status.

RF: In this whole report RF means Radiated Frequency.

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5 General Information

5.1 Client Information

Applicant:	PIONEER CORPORATION
Address of Applicant:	25-1 AZA-NISHIMACHI,YAMADA,KAWAGOE-SHI SAITAMA-KEN 350-8555,JAPAN
Manufacturer:	Huizhou Foryou General Electronics Co., Ltd.
Address of Manufacturer:	North Shangxia Road, Dongjiang Hi-tech Industry Park, Huizhou, Guangdong Province, 516005,P R China
Factory:	Huizhou Foryou General Electronics Co., Ltd.
Address of Factory:	North Shangxia Road, Dongjiang Hi-tech Industry Park, Huizhou, Guangdong Province, 516005,P R China

5.2 General Description of EUT

Product Name:	Tablet Receiver
Trade Mark:	PIONEER/Carrozzeria
Model No.:	SDA-835TAB/XEES
Serial Number:	SDA-8TAB/XEEU5、SDA-80TAB/XEUR、SDA-700TAB/XEJP
Operating Frequency:	2402 MHz to 2480 MHz
Conducted rated power:	F1D: 1.0mW
Number of Channels:	40 Channels
Type of Modulation:	GFSK,
Channel Separation:	2 MHz
Dwell time	Per channel is less than 0.4s.
Antenna Type:	Integral antenna
Antenna gain:	1.72dBi from 2402~2480MHz
Sample Type:	Portable production
Power Supply:	3.7V
Sample Received Date:	August 08, 2019
Sample tested Date:	August 08, 2019 to August 26, 2019

5.3 Description of Support Units

The EUT has been tested stand-alone.

5.4 Test Location

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

IOT Test Centre of BlueAsia No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen

Telephone: TEL: +86-755-2305 9481

FAX: +86-755-2305 9481

No tests were sub-contracted.

6 Equipment List

Equipment	Manufacturer	Model	Serial No.	Due Date	Calibration body	Classification
Signal Generator	Agilent	E8257D	MY44320250	2020.5.06	GRGT	(c)
Communication test set test set	Anritsu	MT8852B	0814003	2020.5.06	GRGT	(c)
Spectrum Analyzer	Keysight	N9030A	MY52350152	2020.5.06	GRGT	(c)
Signal Generator	Agilent	E4438C	MY45092582	2020.5.06	GRGT	(c)

Remark:

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (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) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (C)

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipments is 1 year.

7 Radio Technical Requirements Specification

Table 1: Radio Technical Requirements Specification for 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2 Paragraph 1)

Items	Technical standard
Assigned frequency or designated frequency	2400-2483.5MHz
Communication method	One-way communication, simplex, semi-duplex, or duplex operation of digital signal transmission including spread spectrum
Tolerance of frequency ($\times 10^{-6}$)	± 50 PPM
Tolerance of occupied bandwidth	FH: 83.5MHz or less FH + OFDM: 83.5MHz or less Others: 26MHz or less FH + DS: 83.5MHz or less OFDM: 38MHz or less
Antenna power	Designated value (1) FH, FH+DS , FH+OFDM: 3mW/MHz (used in the range of 2427 - 2470.75 MHz) (2) OFDM , DS other than (1): 10mW/MHz (3) Other than (1) & (2): 10mW Tolerance : +20%,-80%
Antenna gain	1) 12.14 dBi or less in principle 2) In case of directional antenna (1) FH, FH+DS or FH+OFDM using 2427-2470.75 MHz EIRP \leq 16.91 dBm/MHz (2) OFDM or DS other than (1) EIRP \leq 22.14 dBm/MHz (3) Other than (1) and (2): 22.14 dBm or less (4) OFDM OBW 26 - 38MHz: 19.14dBm/MHz (5) Half-power angle of directional antenna (e) in case of the item 2): $e \leq 360/A$ (The A is 10 in maximum.)
Tolerance of spurious emission intensity	(1) Below 2387 MHz: 2.5 μ W (2) 2387 to 2400 MHz: 25 μ W (3) 2483.5 through 2496.5 MHz: 25 μ W (4) Over 2496.5 MHz: 2.5 μ W
Spreading bandwidth	500kHz or more
Limit of secondary radiated emissions	(1) Below 1 GHz: 4nW (2) 1 GHz or higher: 20nW
Interference prevention function	Shall have the function of automatic transmission and reception of identification sign.
Structure	Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.
Note	DS: Direct spread FH: Frequency hopping OFDM: Orthogonal frequency division multiplexing

Note: The Technical Standards described here do not cover all of the regulated items.

7.1 Transmitter Requirements

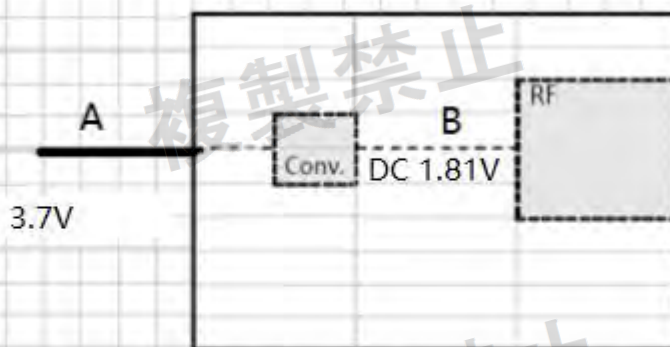
7.1.1 EUT test voltage and Frequency

7.1.1.1 EUT test voltage

Power Supply: DC 3.7V

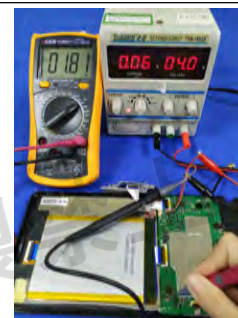
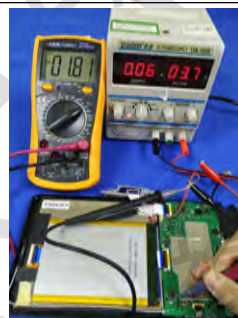
Test voltage require: The power supply is by DC 3.7V port charging. The supply voltage of RF part is varied within $\pm 1\%$, so the DC 3.7V is chosen in the test report.

Power Supply view:



Test below:

1: The fluctuation of B point is under $\pm 1\%$, when input voltage from A point to the test equipment is fluctuated by $\pm 10\%$.



Power Supply result:

The measurement result of the voltage fluctuation at RF circuit when 3.7V $\pm 10\%$.

DC INPUT

DC1.81V

4.07V

1.81V

3.7V

1.81V

3.33V

1.81V

Test condition	Ambient	
	Temperature($^{\circ}\text{C}$)	Voltage(V)
NTNV	24	3.7
NTLV	N/A	N/A
NTHV	N/A	N/A

7.1.1.2 Test frequency

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.	
Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are the lowest channel: 0 channel (2402 MHz), Middle channel, 19 channel (2440 MHz) and highest channel: 39 channel (2480 MHz).

7.1.2 Antenna Requirement

Standard requirement

Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

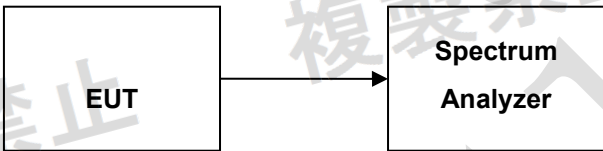
EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.72dBi.



Result: An antenna connector is available; all relevant tests will be carried out conducted.

7.1.3 Frequency Error

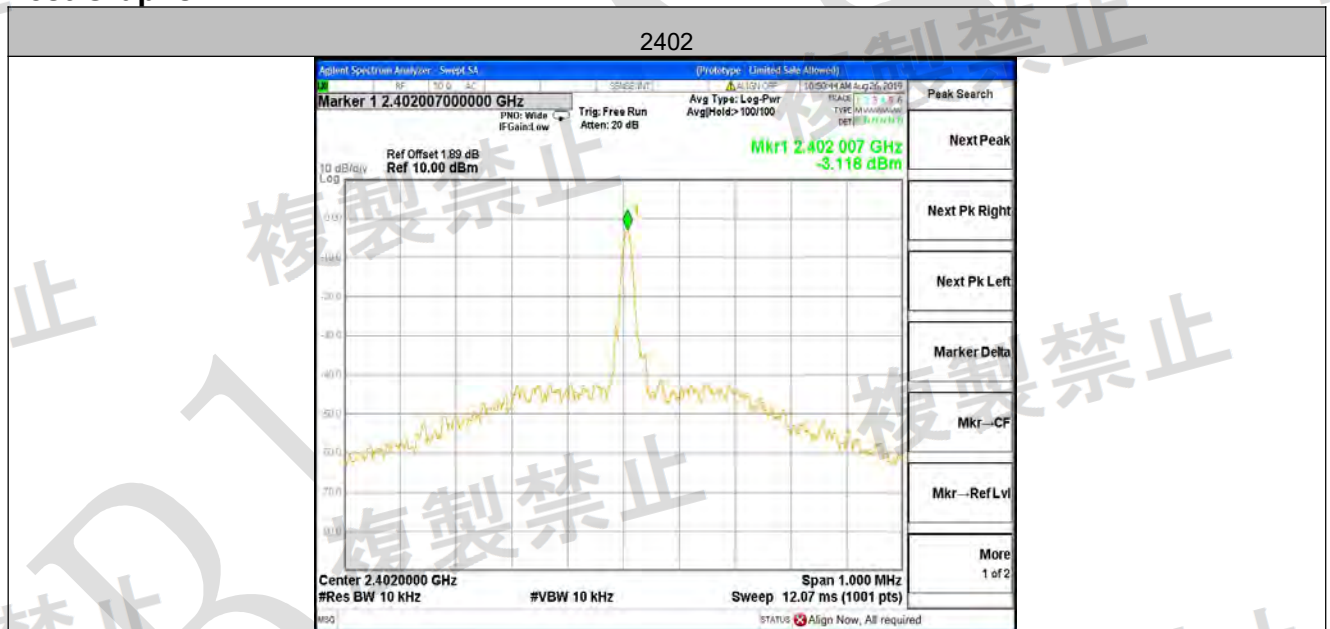
Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
EUT Operation:			
Ambient:	Temp.: 24°C	Humid.: 55%	Press.: 1010 mbar
Test Status:	Test the EUT in transmitting mode without modulation. Test in Channel lowest (2402MHz), middle (2440MHz) and highest (2480MHz), keep in continuously transmitting status.		
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>		
Test Conditions:	Frequency Counter or Spectrum Analyzer is used for measurement.		
EUT conditions:	Modulation/Spread/Hopping off, CW Tx If EUT does not accept "Modulation OFF" mode in the measurement, you may use "Modulation ON" mode. In that case you can use the Max power Frequency as the measuring results.		
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 1MHz RBW 10KHz (Modulation ON), VBW 10KHz (Modulation ON), Sweep Time Auto Detector mode Positive peak Indication mode Max hold		
Technical standard:	Tolerance of frequency: $\pm 50 \times 10^{-6}$		
Test result:	PASS		

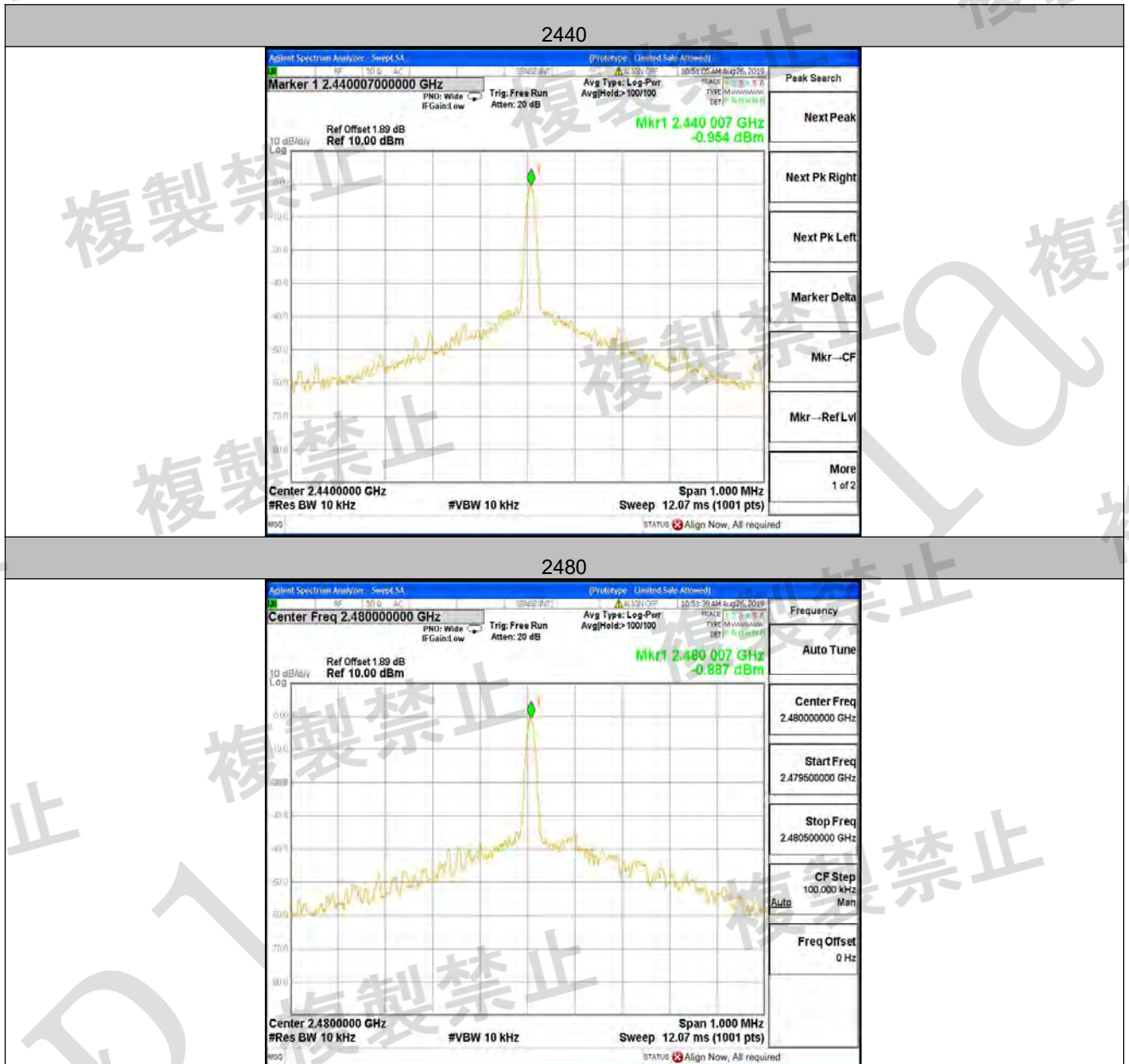
Measurement Record:
Uncertainty: $\pm 10\text{Hz}$
Test Result

Test channel	Test Frequency (MHz)	Result[ppm]	Limit[ppm]	Verdict
Lowest	2402	2.91	± 50	PASS
Middle	2440	2.87	± 50	PASS
Highest	2480	2.82	± 50	PASS


Note: The nominal frequency shall be confirmed by the applicant and test lab.

Result plot as follows:

Test Graphs




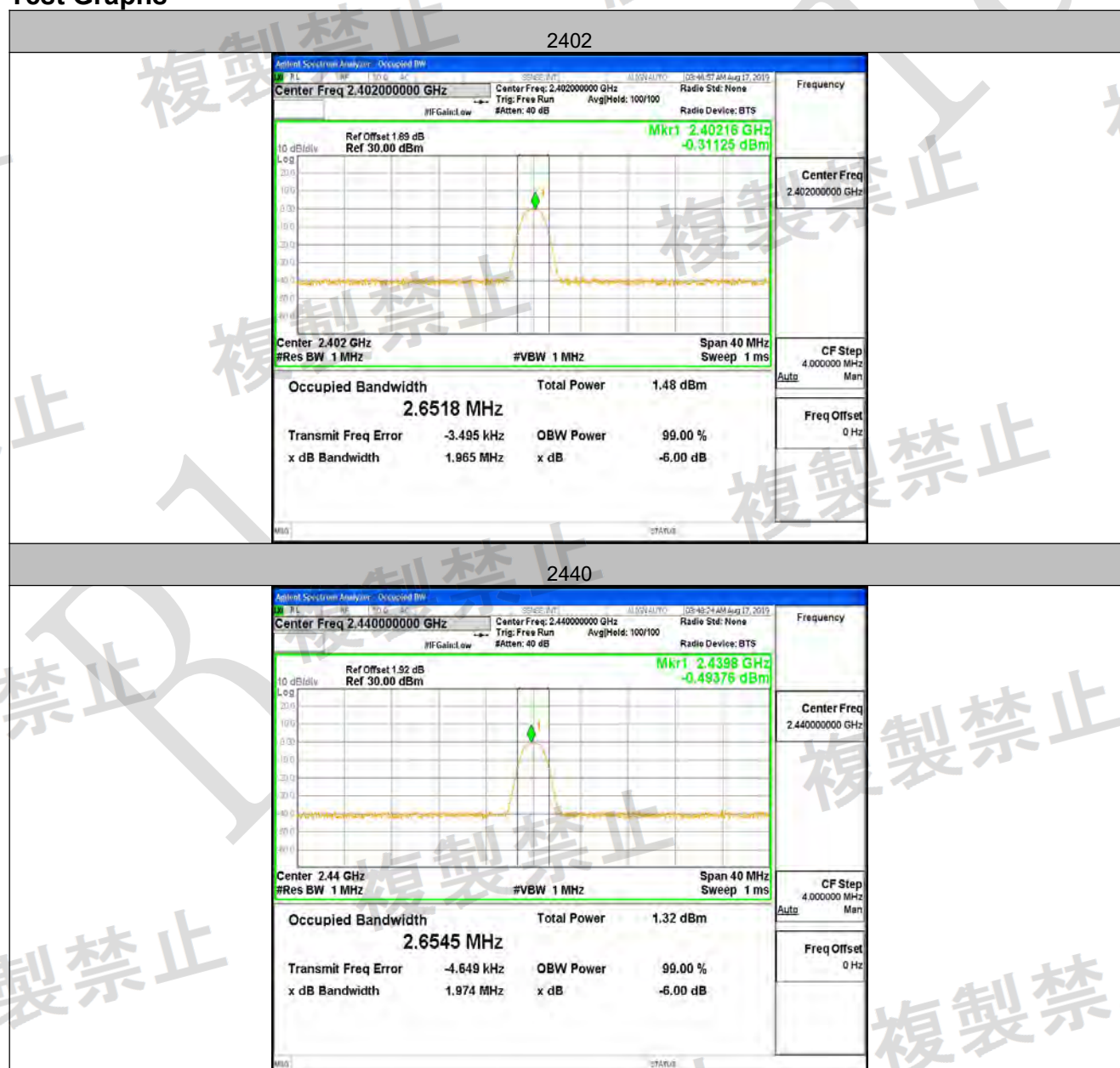
7.1.4 Occupied Bandwidth (99%)

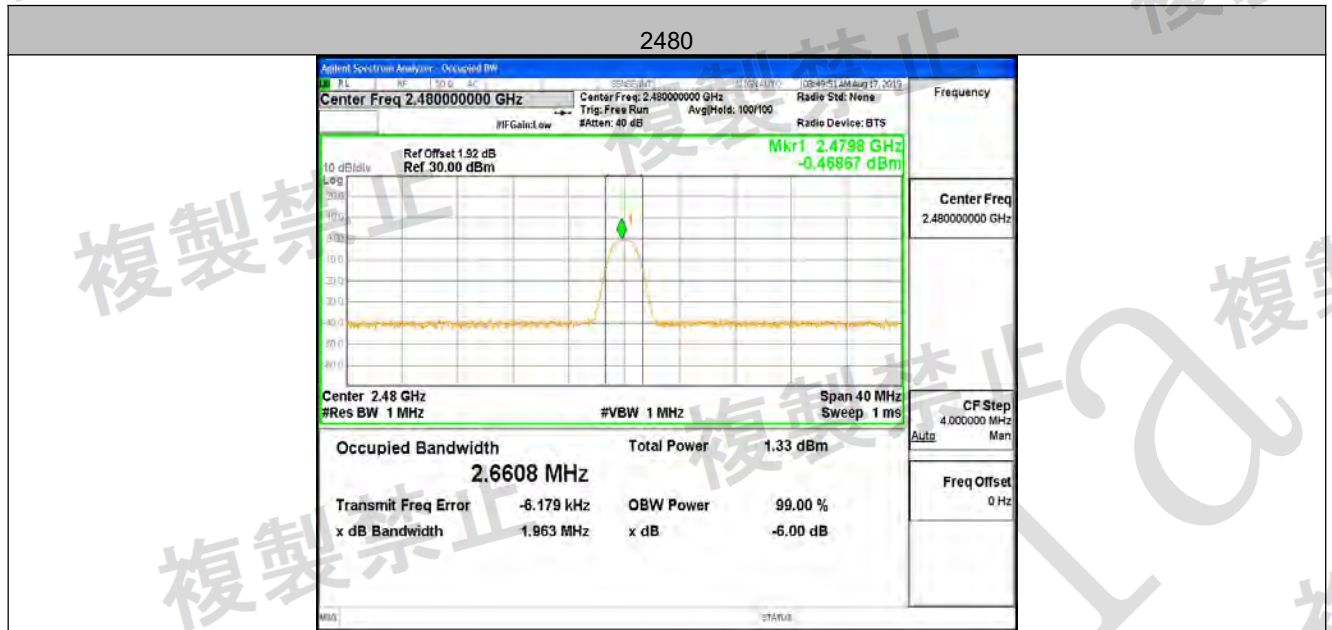
Test Requirement:	Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
EUT Operation:	
Ambient:	Temp.: 24.0°C Humid.: 55% Press.: 1010mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>
EUT conditions:	Modulation/Spread/Hopping on, Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 40MHz RBW 1MHz VBW 1MHz Sweep Time Auto detector mode Positive peak Indication mode Max hold OBW 99%
Technical standard:	26MHz or less
Test result:	PASS

Measurement Record:
Uncertainty: $\pm 10\text{KHz}$
Test Result

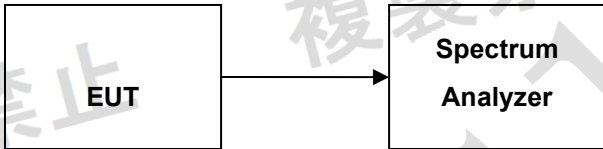
Test channel	Test Frequency (MHz)	Result [MHz]	Limit [MHz]	Verdict
Channel 0	2402	2.6518	≤ 26	PASS
Channel 19	2440	2.6545	≤ 26	PASS
Channel 39	2480	2.6608	≤ 26	PASS

Result plot as follows:

Test Graphs




7.1.5 Antenna Power

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
EUT Operation:			
Ambient:	Temp.: 24°C	Humid.: 55%	Press.: 1010mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>		
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Spectrum Analyzer conditions(FHSS):	Frequency: Test Frequency Span 40MHz RBW 10MHz VBW 10MHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold		
Technical standard:	Antenna Power (1) FH, FH+DS , FH+OFDM 3mW/MHz or less (used in the range of 2427-2470.75 MHz) (2) OFDM , DS other than (1) 10mW/MHz or less (3) Other than (1) & (2) 10mW or less Tolerance: +20% -80%		
Test result:	PASS		

Measurement Record:
Uncertainty: ± 10 kHz / ± 1 dB
Test Result

AntennaPower				
Test channels	Test Frequency (MHz)	Result(mW)	Limit(mW)	Verdict
Channel 0	2402	1.008	≤ 10	PASS
Channel 19	2440	0.960	≤ 10	PASS
Channel 39	2480	0.988	≤ 10	PASS

Tolerance						
Test channels	Test Frequency (MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
Channel 0	2402	1.008	1.0	0.80	-80 to +20	PASS
Channel 19	2440	0.960	1.0	-4.00	-80 to +20	PASS
Channel 39	2480	0.988	1.0	-1.20	-80 to +20	PASS

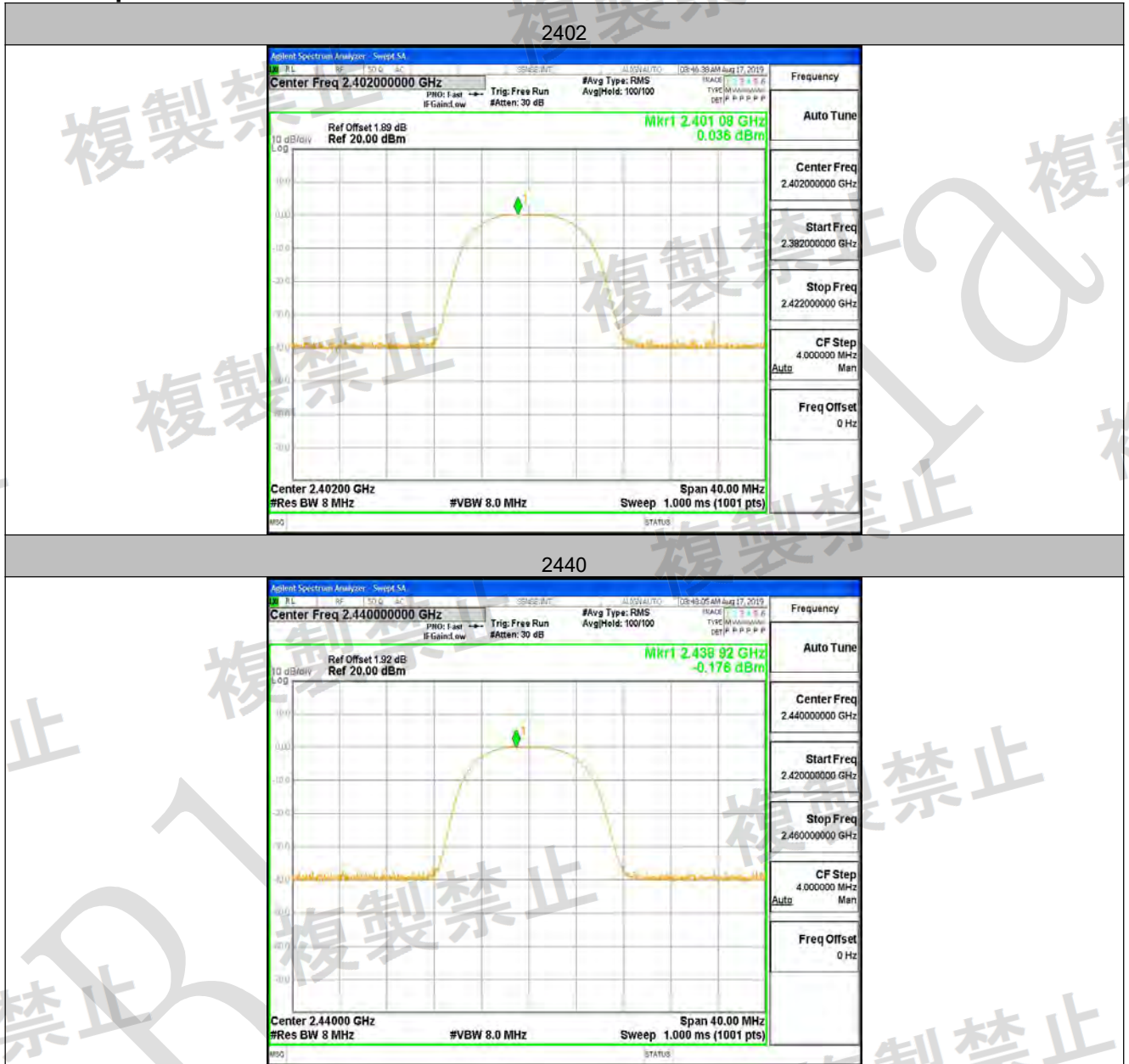
Remark:

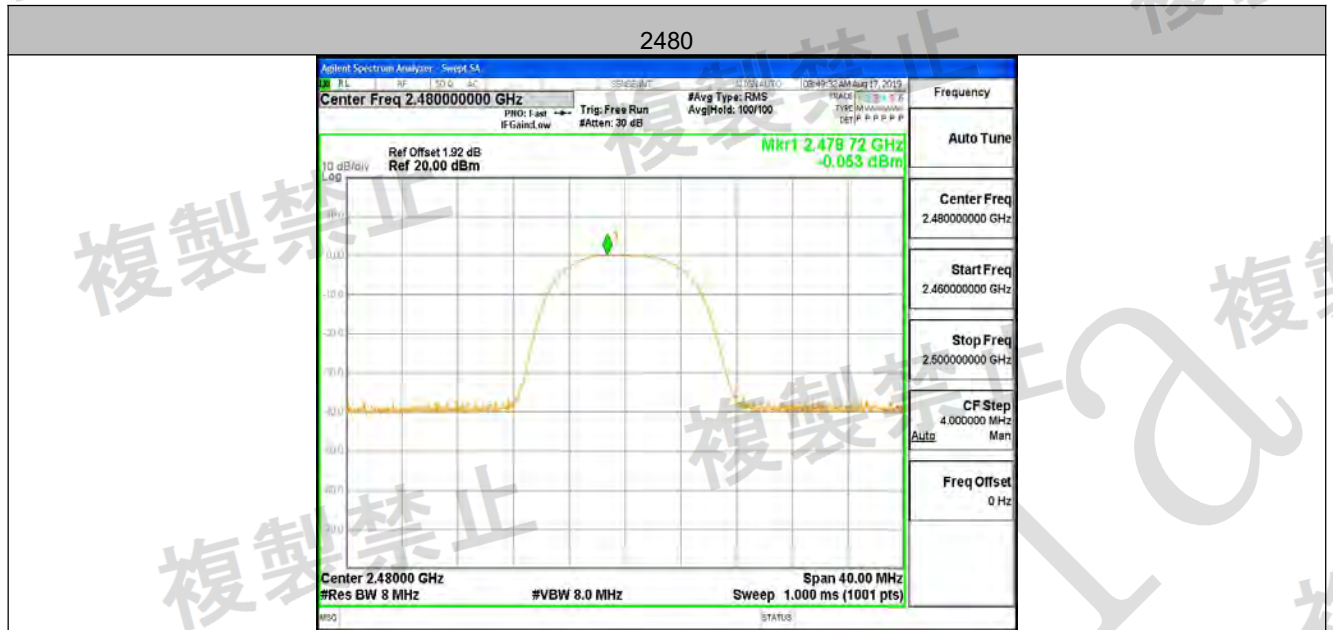
Conducted rated power: 1.0mW

Tolerance (%) :[(test value- rate power)/rater power]*100

Result plot as follows:

Test Graphs





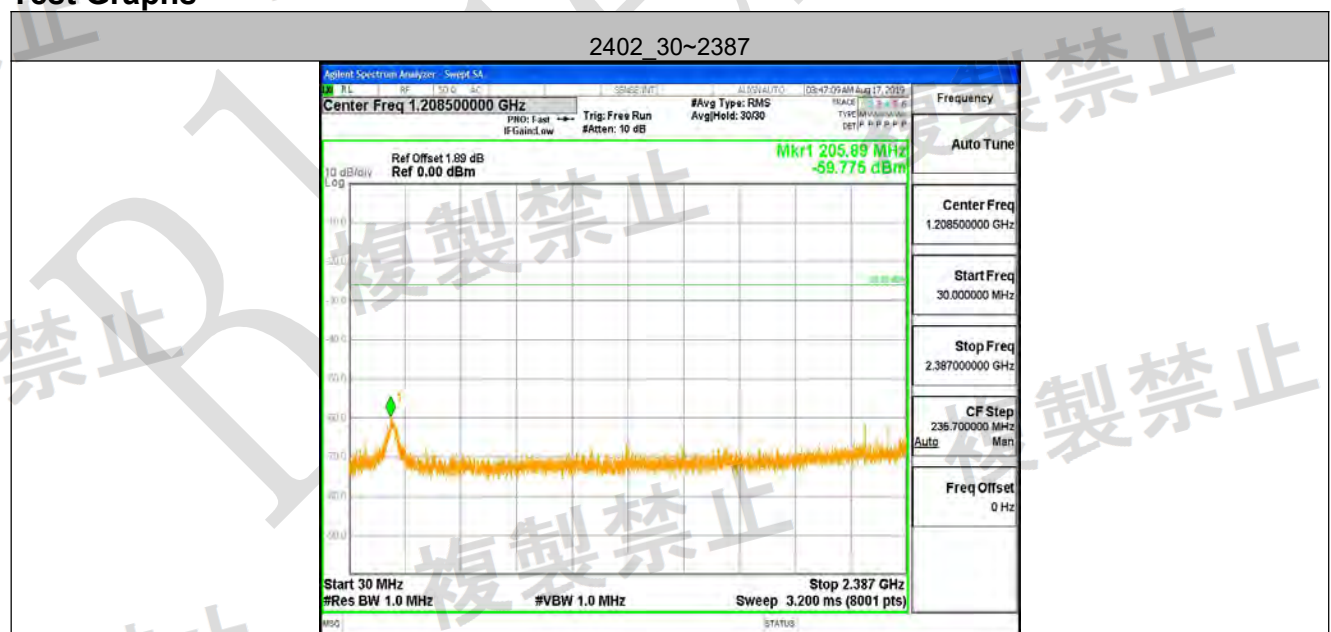
7.1.6 Spurious Emissions of Tx

Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
EUT Operation:			
Ambient:	Temp.: 24°C	Humid.: 55%	Press.: 1010 mbar
Test Status:	<p>Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).</p> <p>Following channel(s) was (were) selected for the final test as listed below.</p>		
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>		
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.		
Measurement Procedure:	Step1 All spurious are measured from 30MHz to 13GHz by peak mode. Step2 IF the value measured by Step1 is 2dB or less, measure in average mode.		
Spectrum Analyzer conditions(Step 1):	Frequency: 30MHz – 2400MHz , 2483.5MHz –13GHz RBW 1000kHz (30 – 1GHz) , 1000KHz (over 1GHz) VBW 1000kHz (30 – 1GHz) , 1000KHz (over 1GHz) Sweep Time Auto detector mode Positive peak Indication mode Max hold		
Spectrum Analyzer conditions(Step 2):	Frequency: Spurious Frequency Span 0Hz RBW 1MHz VBW 1MHz Sweep Time Auto Detector mode Sample Indication mode Max hold		
Technical standard:	(1) Below 2387 MHz : 2.5μW/MHz (2) 2387 to 2400 MHz : 25μW/MHz (3) 2483.5 through 2496.5 MHz : 25μW/MHz (4) Over 2496.5 MHz : 2.5μW/MHz		
Test result:	PASS		

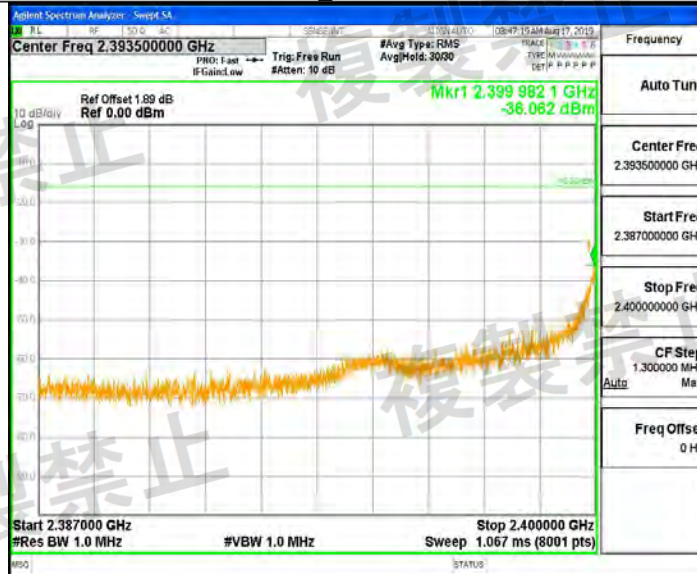
Measurement Record:
Uncertainty: ±1dB
Test Result

TestCondition	TestMode	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
NTNV	BLE_BT4.0	2402	30~2387	-59.775	<=-26	PASS
			2387~2400	-36.062	<=-16	PASS
			2483.5~2496.5	-66.352	<=-16	PASS
			2496.5~13000	-60.283	<=-26	PASS
		2440	30~2387	-59.131	<=-26	PASS
			2387~2400	-64.38	<=-16	PASS
			2483.5~2496.5	-61.629	<=-16	PASS
			2496.5~13000	-60.319	<=-26	PASS
		2480	30~2387	-60.305	<=-26	PASS
			2387~2400	-66.392	<=-16	PASS
			2483.5~2496.5	-52.95	<=-16	PASS
			2496.5~13000	-60.25	<=-26	PASS

Result plot as follows:

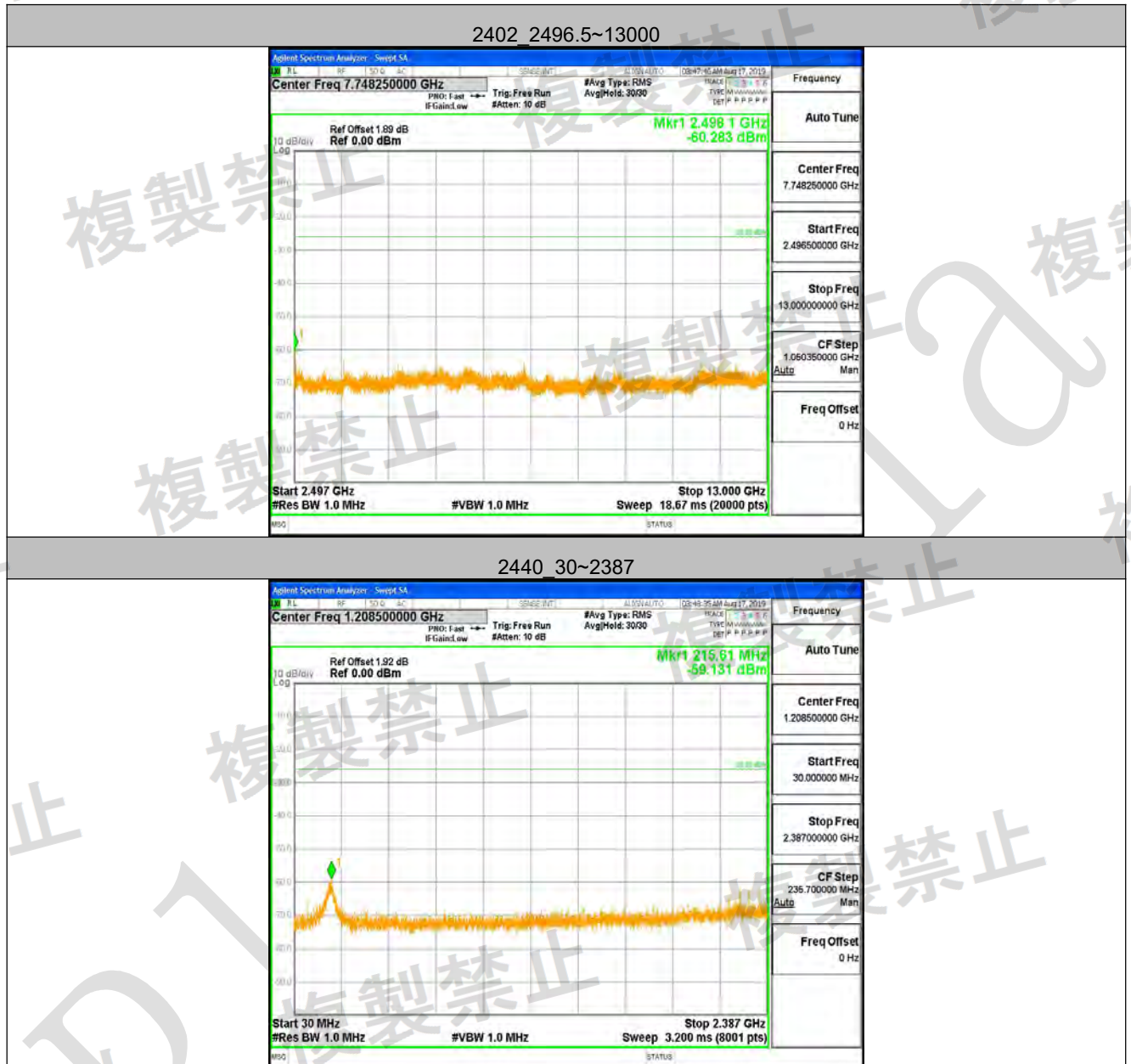
Test Graphs


2402 2387~2400

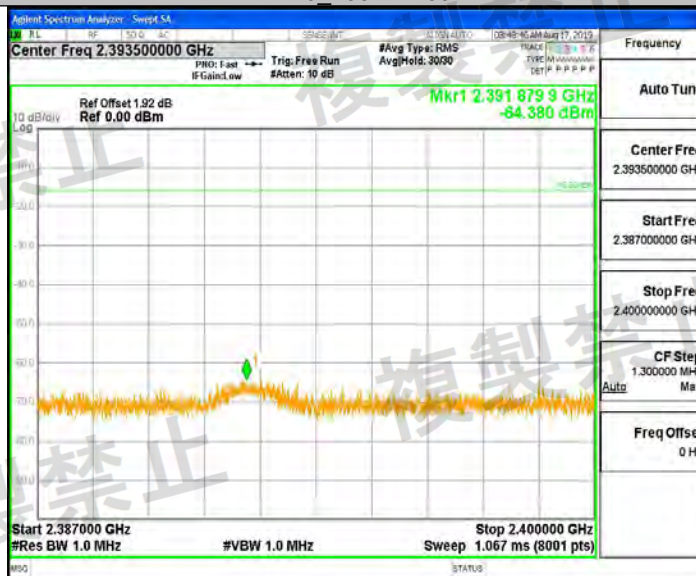


2402 2483.5~2496.5

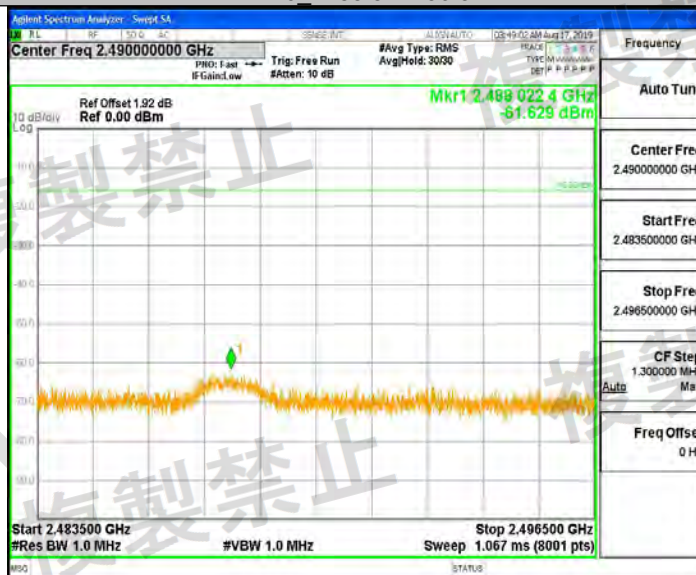




2440 2387~2400

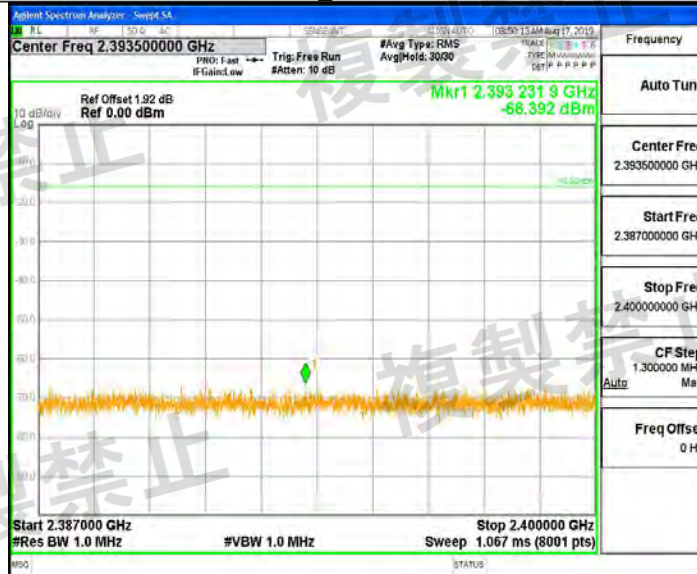


2440 2483.5~2496.5

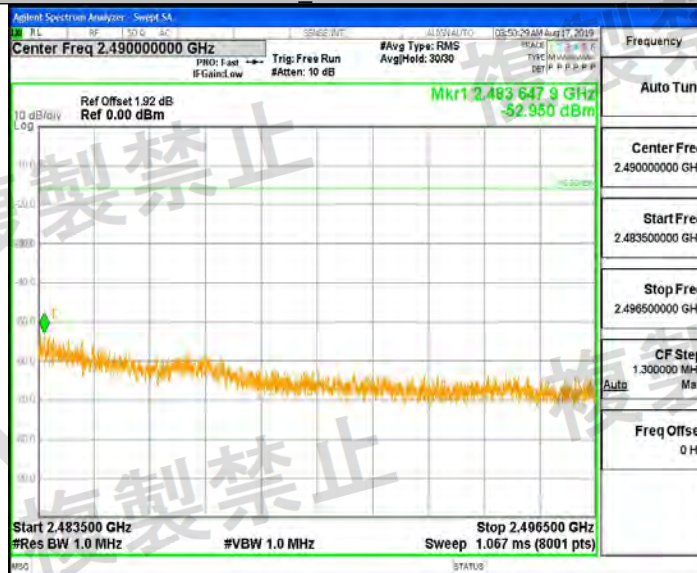


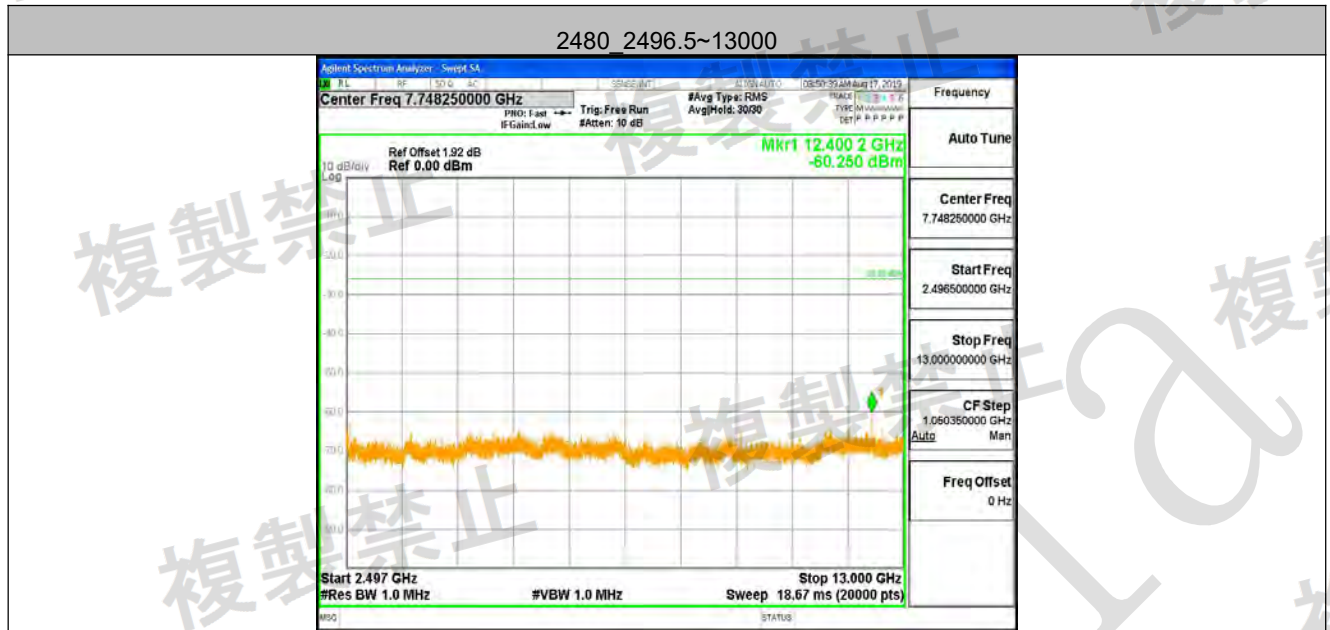


2480 2387~2400



2480 2483.5~2496.5

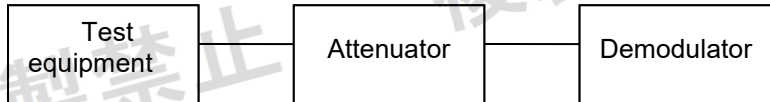




7.1.7 Interference prevention function

1) Measurement system diagram

(1) When transmitting identification code



2) Condition of measuring instrument

- (1) Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.

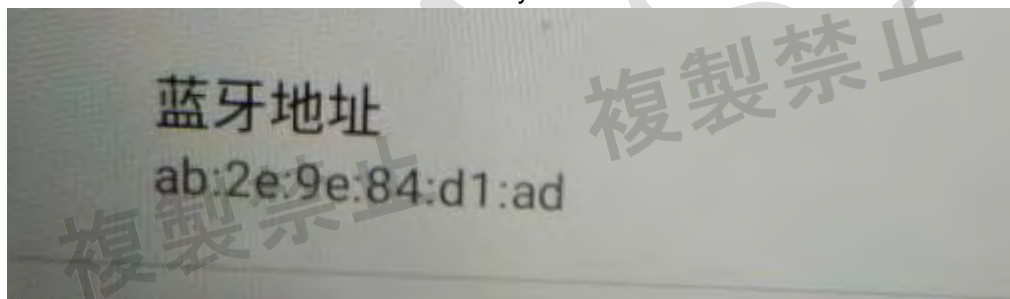
3) Condition of test equipment The mode of normal use.

4) Measuring operation procedure

- (1) When test equipment has the function to transmit identification code automatically:

A) Transmit the predetermined identification code from test equipment.

B) Confirm the transmitted identification code by demodulator.



- 5) Test result: The unit does meet the requirements (Good).

Test result: PASS

7.1.8 RF accessibility

Standard requirement

Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

Cover is specially screwed in order not to open easily.



7.2 Receiver Requirements

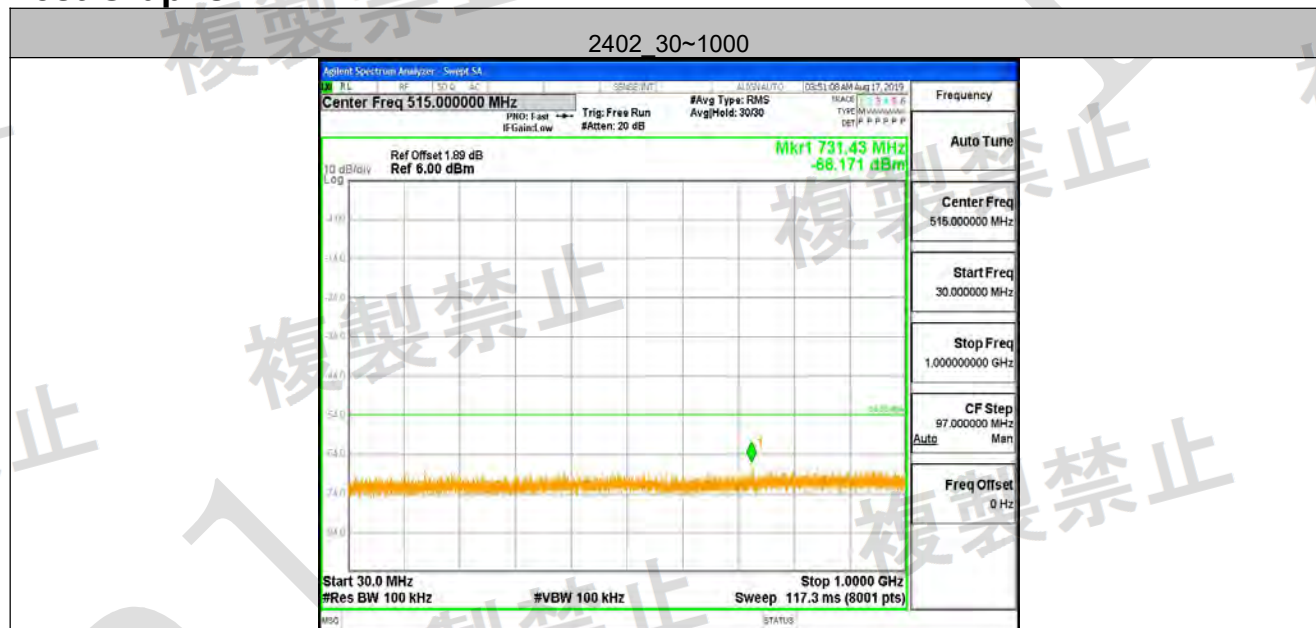
7.2.1 Spurious Emissions of Rx

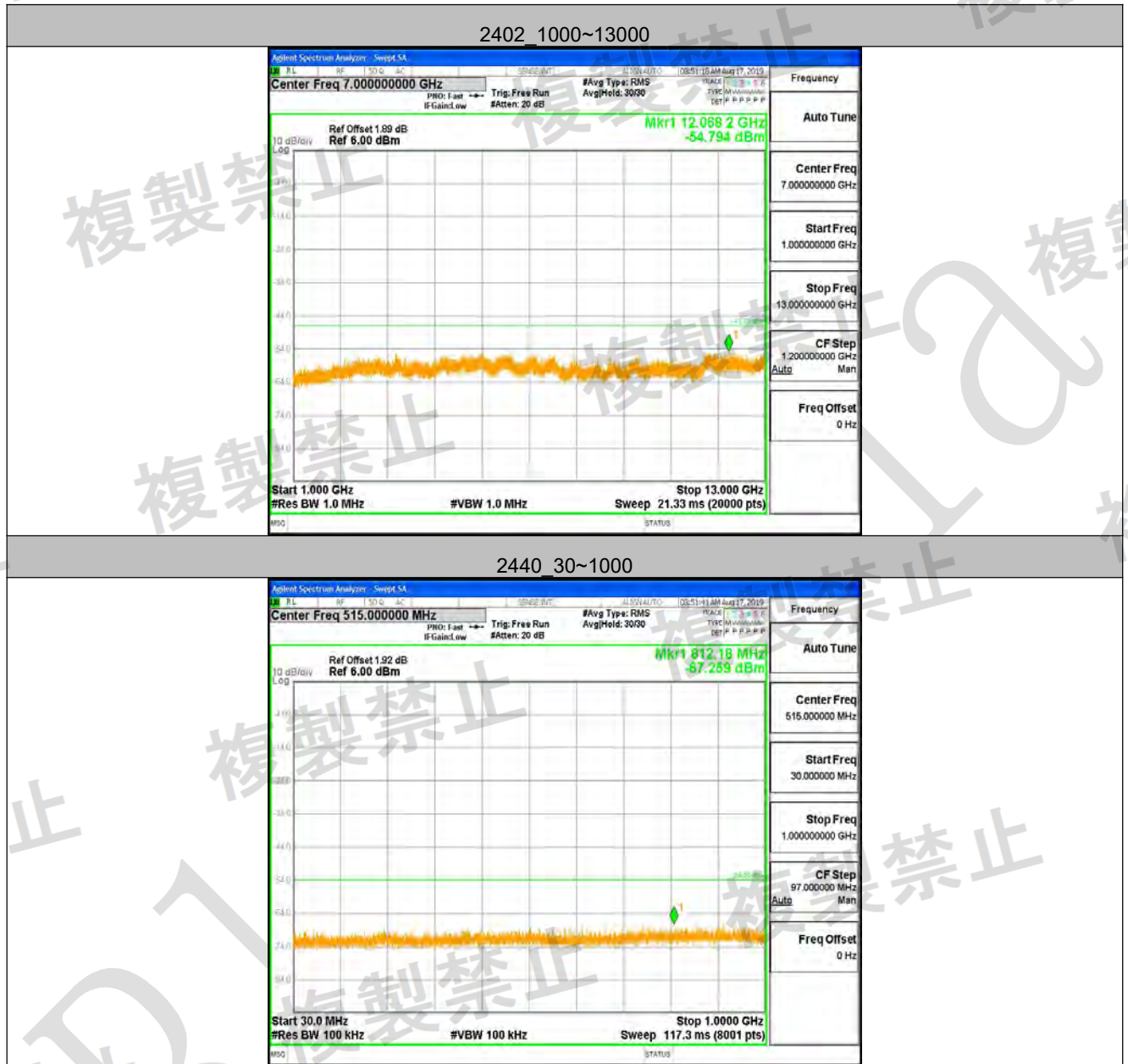
Test Requirement:	Item 19 of Article 2 Paragraph 1		
Test Method:	MIC Notice No.88 Appendix No.43		
EUT Operation:			
Ambient:	Temp.: 24°C	Humid.: 55%	Press.: 1010 mbar
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.		
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>		
EUT conditions:	Rx		
Measurement Procedure:	Step1 All spurious are measured from 30MHz to 13 GHz by peak mode. Step2 If the value measured by Step1 is 2dB or less, measure in average mode.		
Spectrum Analyzer conditions(Step 1):	Frequency: 30MHz – 2400MHz , 2483.5MHz –13GHz RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) VBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) Sweep Time Auto detector mode Positive peak Indication mode Max hold		
Spectrum Analyzer Conditions(Step 2):	Frequency: Spurious Frequency Span 0 Hz RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) VBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) Sweep Time Auto detector mode Sample Indication mode Max hold		
Technical standard:	(1) Below 1 GHz : 4 nW or less (2) 1 GHz and over : 20 nW or less		
Test result:	PASS		

Test Result

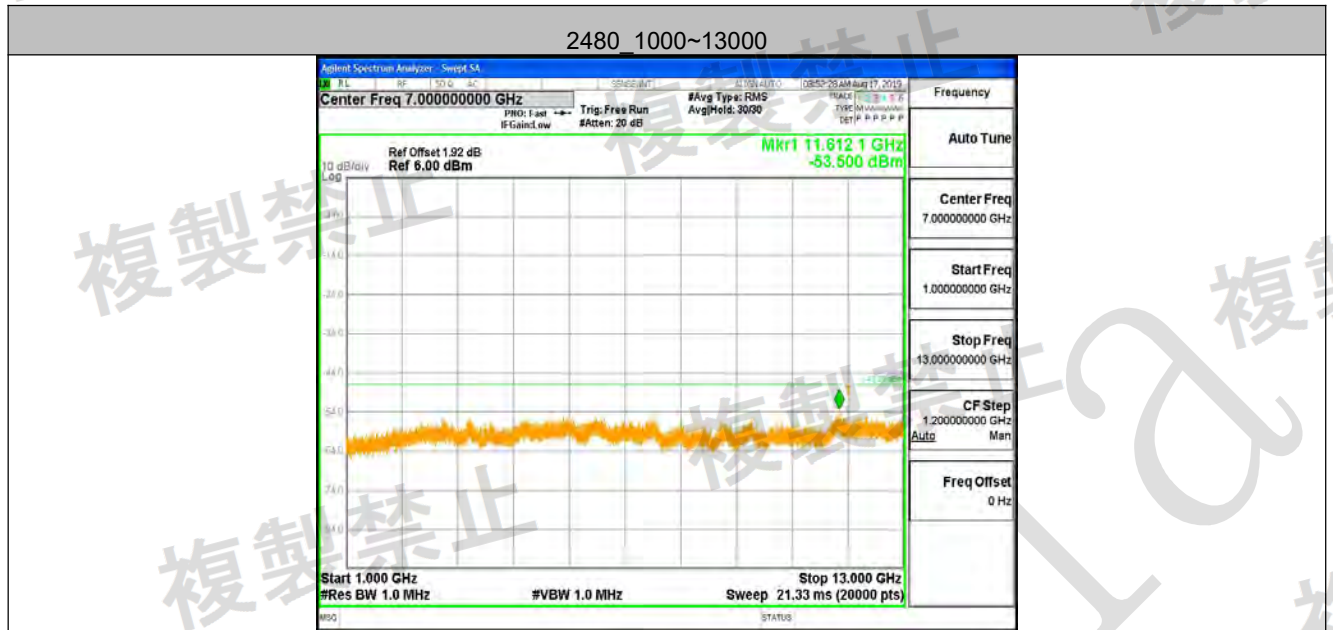
TestCondition	TestMode	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
NTNV	BLE_BT4.0	2402	30~1000	-66.171	<=-54	PASS
			1000~13000	-54.794	<=-47	PASS
		2440	30~1000	-67.259	<=-54	PASS
			1000~13000	-53.982	<=-47	PASS
		2480	30~1000	-67.334	<=-54	PASS
			1000~13000	-53.5	<=-47	PASS

Test Graphs



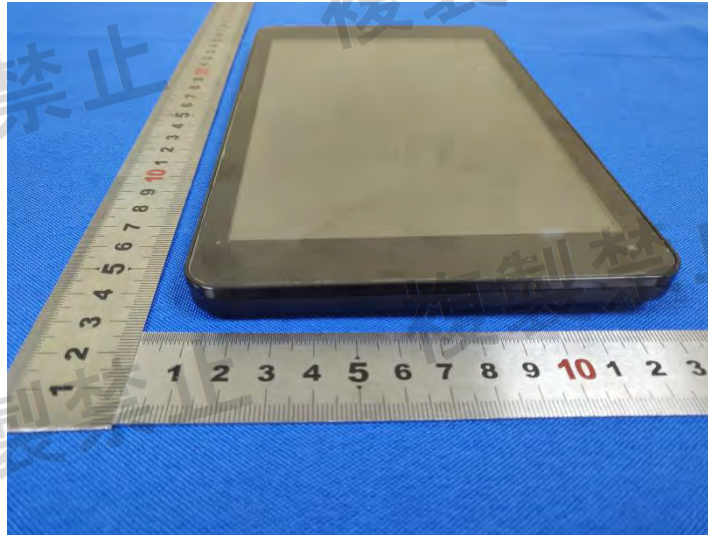






8 Photographs

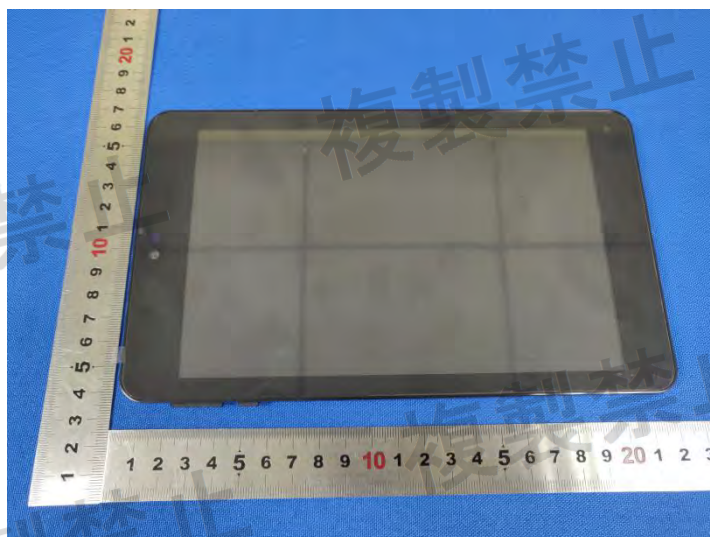
8.1 EUT Constructional Details



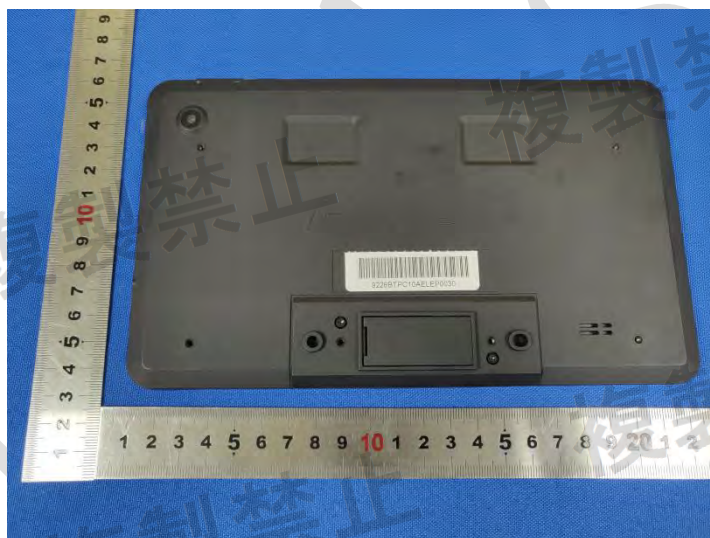
View of Product-1



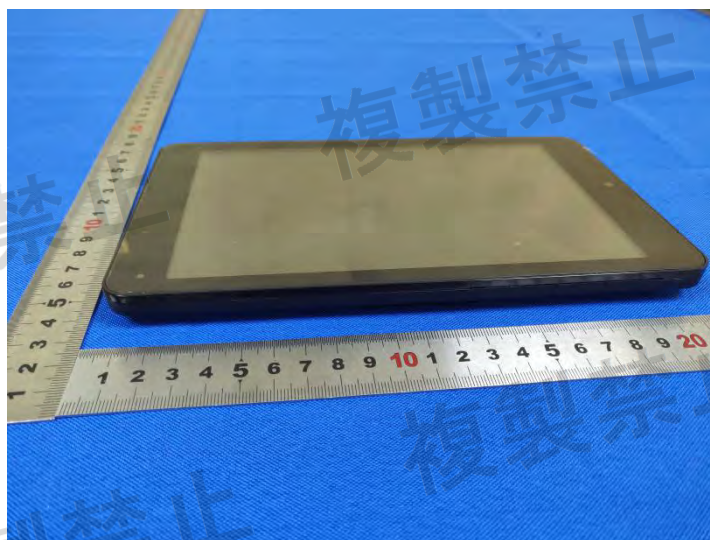
View of Product-2



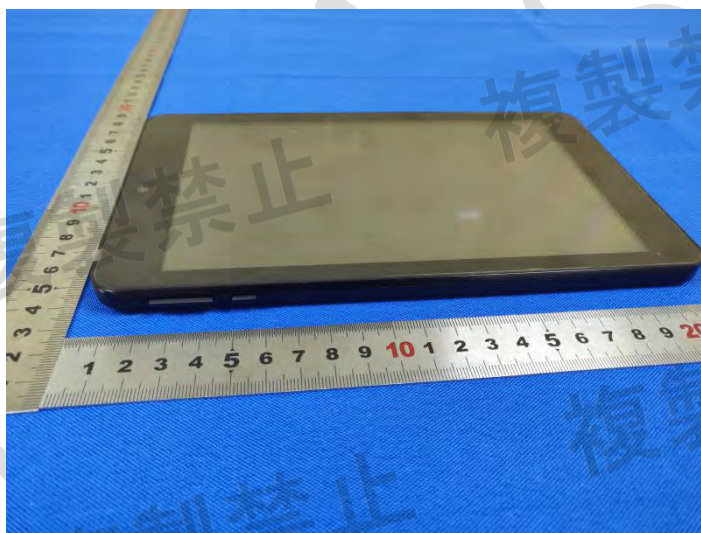
View of Product-3



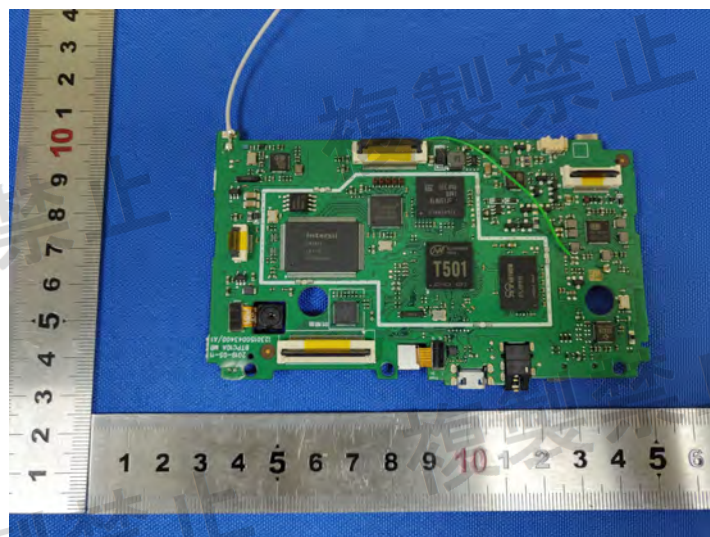
View of Product-4



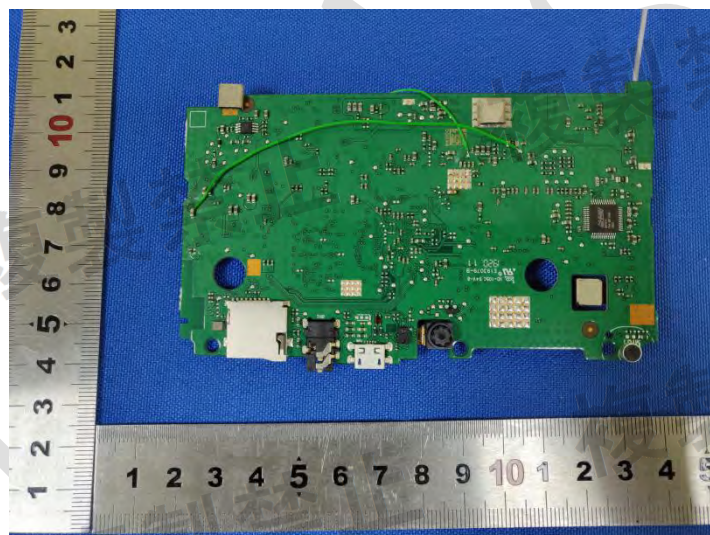
View of Product-5



View of Product-6



View of Product-7



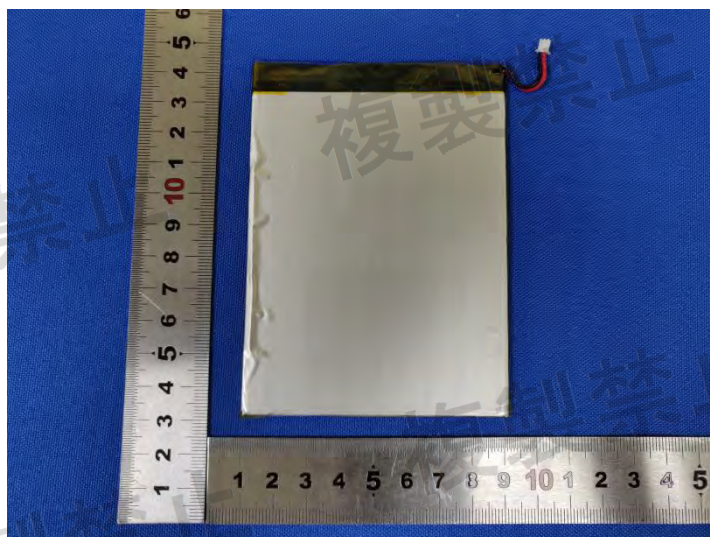
View of Product-8



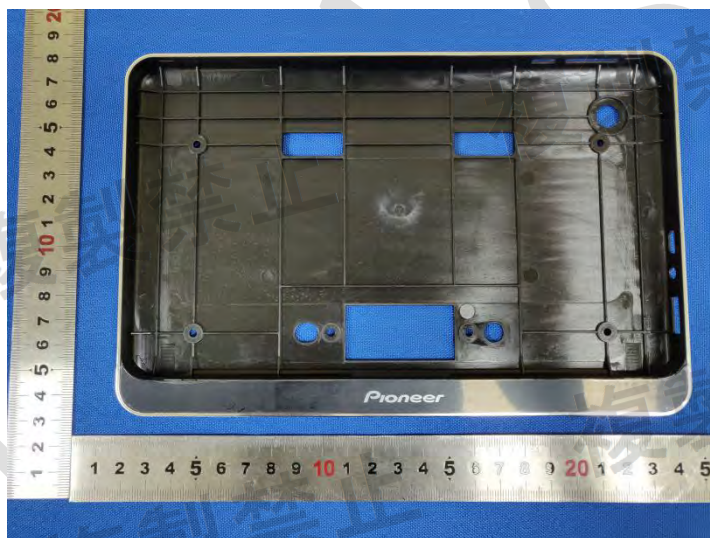
View of Product-9



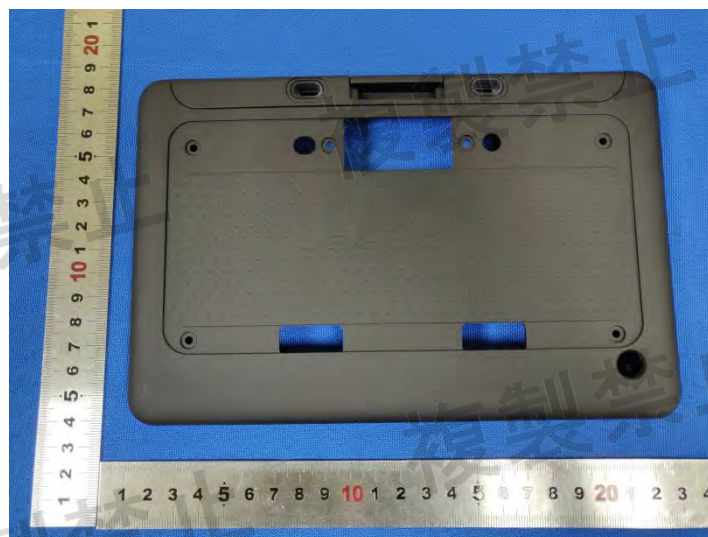
View of Product-10



View of Product-11



View of Product-12



View of Product-13

*** End of Report ***

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