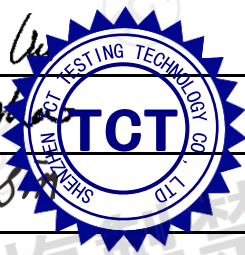


MIC REPORT

Test Report No..... :	TCT260511E009	
Date of issue..... :	May 28, 2026	
Testing laboratory	Shenzhen TCT Testing Technology Co., Ltd.	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China	
Applicant's name..... :	GUANGZHOU RANTION TECHNOLOGY CO., LTD.	
Address..... :	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China.	
Manufacturer's name ... :	GUANGZHOU RANTION TECHNOLOGY CO., LTD.	
Address..... :	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China.	
Standard(s)	Article 2, Paragraph1, item 19 MIC Notice No.88 Appendix No.43	
Product Name..... :	MIDI CONTROLLER	
Trade Mark	DONNER, MouKey, Eastar	
Model/Type reference..... :	STARRYPAD PRO, STARRYPAD, STARRYPAD MINI, STARRYKEY-37 PLAY, POCKET FM	
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.7V	
Date of receipt of test item	May 11, 2026	
Date (s) of performance of test..... :	May 11, 2026 ~ May 28, 2026	
Tested by (+signature) ... :	Rleo LIU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

**General disclaimer:**

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1. General Product Information

1.1. EUT description

Product Name.....:	MIDI CONTROLLER
Model/Type reference.....:	STARRYPAD PRO
Hardware Version.....:	V2.1
Software Version	006
BT Version	V5.1
Operation Frequency	2402MHz~2480MHz
Number of Channel	40
Modulation Type	GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	0.67dBi
Rating(s).....:	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	STARRYPAD PRO	☒
Other models	STARRYPAD, STARRYPAD MINI, STARRYKEY-37 PLAY, POCKET FM	☐

Note: STARRYPAD PRO is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names and trademarks. So the test data of STARRYPAD PRO can represent the remaining models.

1.3. Operation Frequency

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

Remark: Channel 0, 19 & 39 selected for test.

2. Test Result Summary

Requirement	Appendix No.43	Result
Frequency Deviation	Section 3	PASS
Occupied frequency bandwidth	Section 4	PASS
Secondary emission of radio wave	Section 7	PASS
Antenna power and deviation, EIRP	Section 6	PASS
Spurious radiation or extraneous emission strength	Section 5	PASS
Transmitting antenna absolute gain	Section 8	N/A
Main lobe width of transmitting antenna	Section 9	N/A
Interference suppression function	Section 10	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:			
Temperature:	25.0 °C		
Humidity:	54 % RH		
Atmospheric Pressure:	1010 mbar		
Voltage			
	Input voltage (V)	voltage (V)	Percent (%)
Normal	3.7	3.3	
+10%	4.07	3.3	0
-10%	3.33	3.3	0
Note: When the input voltage is reduced or increased by 10%, the regulator voltage changes is less than 1%. So the following test items are conducted in the normal voltage.			
Test Mode:			
Operation mode:	1) Keep the EUT in continuous transmitting by select channel and modulations; 2) Keep the EUT in continuous receiver mode by each modulation.		

3.2. Description of 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.3. Test Instruments List

Conducted Emission						
Name	Model No.	Serial Number	Manufacturer	Date of Cal.	Due Date	Calibrated by
Spectrum Analyzer	N9020A	MY491006 19	Agilent	Jun. 26, 2025	Jun. 25, 2026	LiSai
Filter box	MW100-PSB	MW210530 TCT-19	MWRFtest	/	/	/
Power detector box	MW100-RFC B	MW210531 TCT	MWRFtest	Sep. 17, 2025	Sep. 16, 2026	LiSai
Programable tempratuce and humidity chamber	JQ-2000	510101234	JQ	Jun. 26, 2025	Jun. 25, 2026	LiSai
DC Power Supply	KR3005K	2203D0300 864	Kingrang	Jun. 26, 2025	Jun. 25, 2026	LiSai
Attenuator	VAT-10W2	2051	MCL	Jun. 26, 2025	Jun. 25, 2026	LiSai

Remark:

Measuring Equipment Calibration Information		
Used	Calibration Company Abbreviation	Full Name of calibration company
☒	LiSai	Guangzhou LiSai Metrology & Test Co., Ltd.
Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)		
☐	(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act	
☐	(b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act	
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act	
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above	

4. Test Facilities

Shenzhen TCT Testing Technology Co., Ltd.

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict,
Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	RF power, conducted	± 0.12 dB
2	Spurious emissions, conducted	± 0.11 dB
3	Temperature	± 0.1 °C
4	Humidity	± 1.0 %

6. Test Results and Measurement Data

6.1. Frequency Deviation

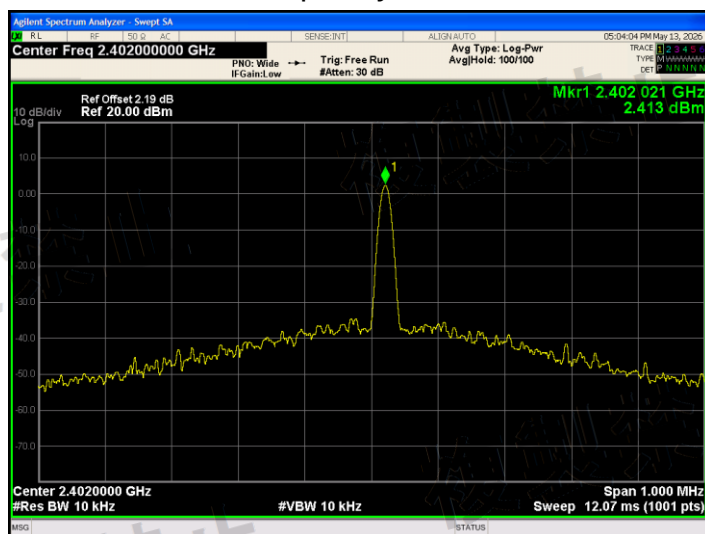
6.1.1. Test Specification

Test Requirement:	Article 2 paragraph 1 item 19
Test Method:	Appendix No.43 Notification No.88 of MIC, 2004 section 3
Limits:	±50 ppm
Test Setup:	 The diagram illustrates the test setup. On the left is a green rectangular device labeled 'Spectrum Analyzer'. A black cable connects it to a yellow rectangular device on the right labeled 'EUT'.
Test Procedure:	1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm) 2. Setting of SA is following as: RBW:10 kHz / VBW:10 kHz 3. Center Frequency: The center frequency of testing for EUT 4. Sweep time: Auto 5. Sweep mode: Continuous sweep 6. Detect mode: Positive peak 7. EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, f_c is declaring of channel frequency. Then the frequency error formula is $(f-f_c)/f_c \times 10^6$ ppm and the limit is less than ± 50 ppm.
Test Result:	PASS

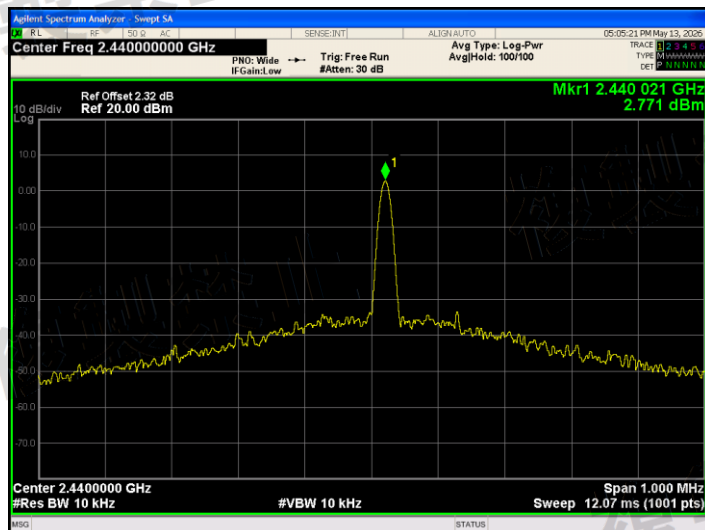
6.1.2. Test Data

Test conditions		Low	Middle	High	Limit	Result
Volt.(dc)	Temp.					
3.7V	25°C	2402.021 MHz	2440.021 MHz	2480.021 MHz	±50ppm	PASS
		8.74ppm	8.61ppm	8.47ppm		

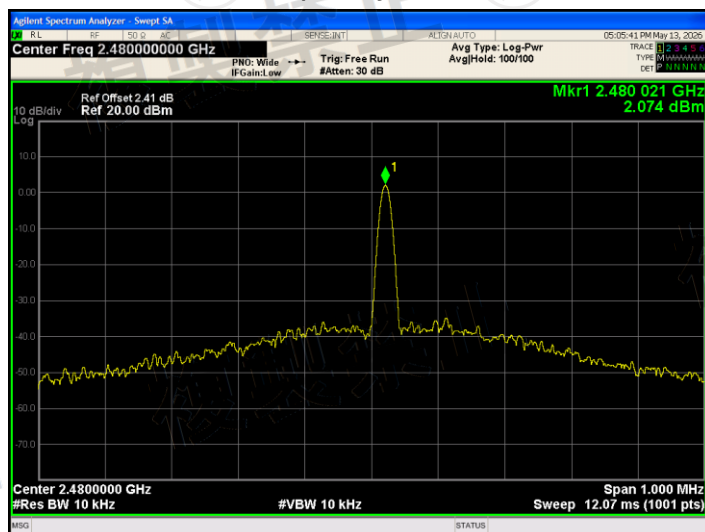
Test Frequency: 2402MHz



Test Frequency: 2440MHz



Test Frequency: 2480MHz



6.2. Occupied frequency bandwidth

6.2.1. Test Specification

Test Requirement:	Article 2 paragraph 1 item 19
Test Method:	Appendix No.43 Notification No.88 of MIC, 2004 section 4
Limit:	26 MHz for Occupied frequency bandwidth
Test Setup:	 The diagram illustrates the test setup. On the left is a green Spectrum Analyzer with a blue screen and two red dots. A black cable connects it to a yellow rectangular box on the right labeled 'EUT'.
Test Procedure:	1. Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold 2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS14 Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26 MHz (For DSSS or OFDM Device) or 83.5 MHz (For FHSS Device).
Test Result:	PASS

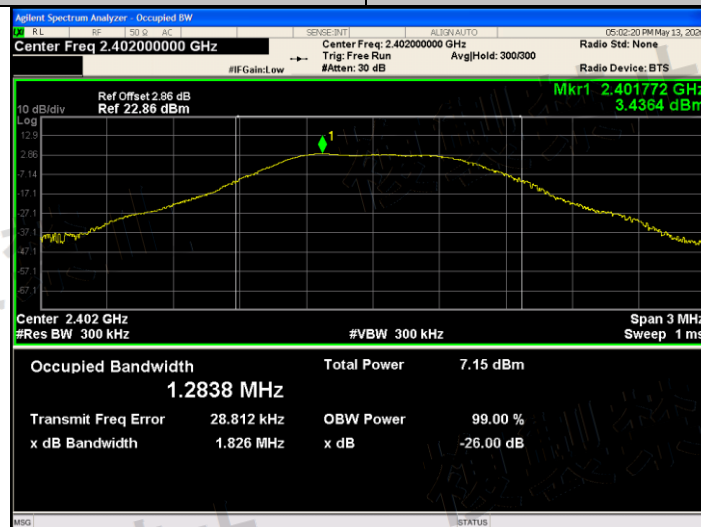
6.2.2. Test Data

Test Condition		Lowest (MHz)	Middle (MHz)	Highest (MHz)	Limit (MHz)	Result
Volt.(dc)	Temp.					
BLE(1M)						
3.7V	25℃	1.28	1.34	1.38	≤ 26	PASS
BLE(2M)						
3.7V	25℃	2.20	2.22	2.23	≤ 26	PASS

BLE(1M):
Occupied Bandwidth:

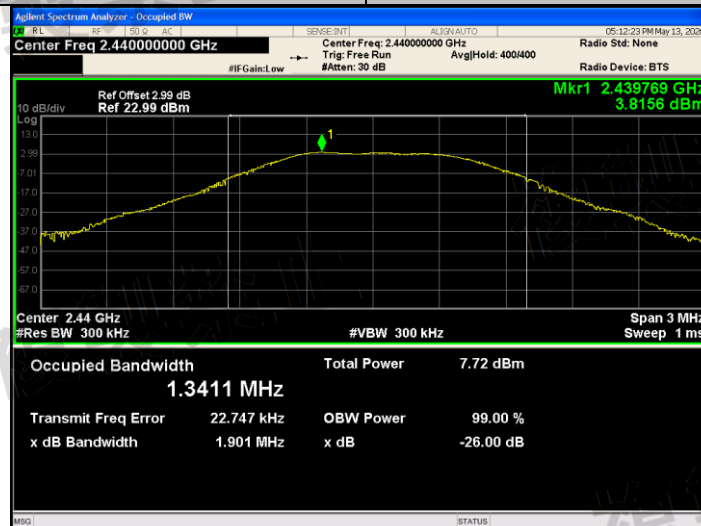
Test Item: 99% Occupied Frequency Bandwidth

Test channel: Lowest channel



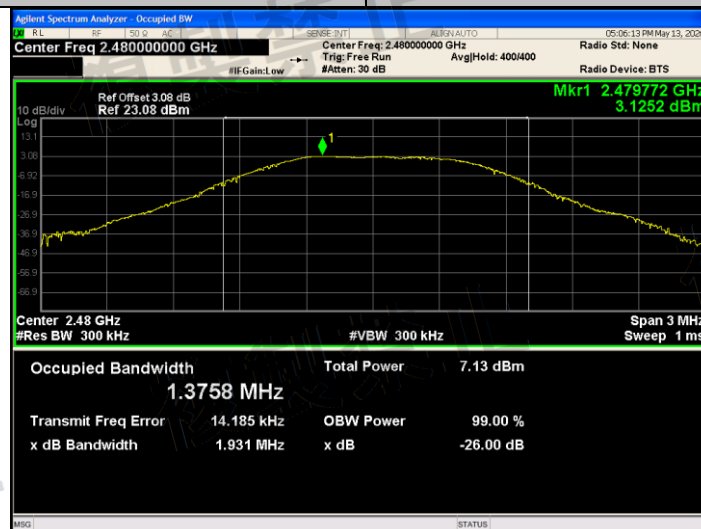
Test Item: 99% Occupied Frequency Bandwidth

Test channel: Middle channel



Test Item: 99% Occupied Frequency Bandwidth

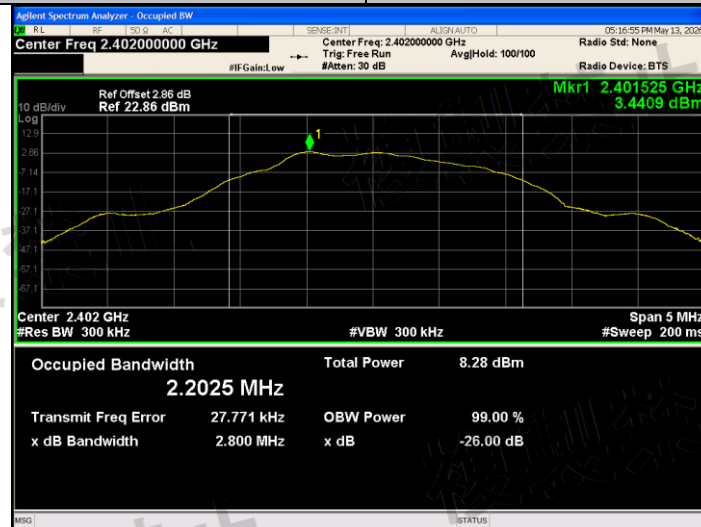
Test channel: Highest channel



BLE(2M): Occupied Bandwidth:

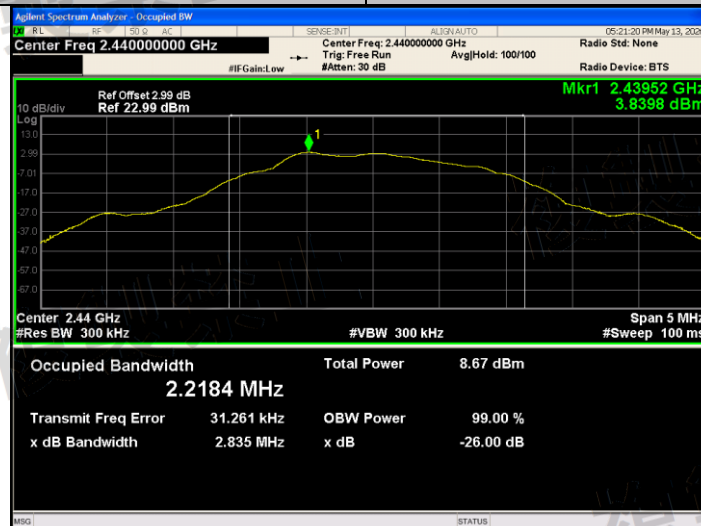
Test Item: 99% Occupied Frequency Bandwidth

Test channel: Lowest channel



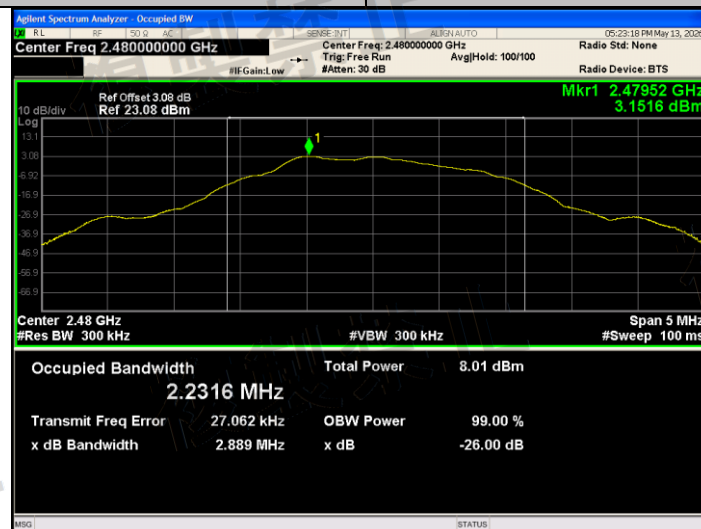
Test Item: 99% Occupied Frequency Bandwidth

Test channel: Middle channel



Test Item: 99% Occupied Frequency Bandwidth

Test channel: Highest channel



6.3. Secondary emission of radio wave

6.3.1. Test Specification

Test Requirement:	Article 2 paragraph 1 item 19
Test Method:	Appendix No.43 Notification No.88 of MIC, 2004 section 7
Limit:	4 nW for below 1 GHz, 20 nW for above 1 GHz
Test Setup:	 Spectrum Analyzer EUT
Test Procedure:	1. EUT have the continuous reception mode and fixed only one channelize. 2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
Test Result:	PASS

6.3.2. Test data

BLE(1M):

Test channel: Lowest Channel							
Test conditions		Frequency (MHz)	Record Frequency (MHz)	Read Level (dBm)	Read Level (nW)	Limit (nW)	Result
Volt.(dc)	Temp.						
3.7V	25℃	30-1000	960.23	-72.08	0.062	4	PASS
		1000-13000	2164.00	-67.24	0.189	20	
Test channel: Middle Channel							
Test conditions		Frequency (MHz)	Record Frequency (MHz)	Read Level (dBm)	Read Level (nW)	Limit (nW)	Result
Volt.(dc)	Temp.						
3.7V	25℃	30-1000	960.23	-71.72	0.067	4	PASS
		1000-13000	2416.00	-65.11	0.308	20	
Test channel: Highest Channel							
Test conditions		Frequency (MHz)	Record Frequency (MHz)	Read Level (dBm)	Read Level (nW)	Limit (nW)	Result
Volt.(dc)	Temp.						
3.7V	25℃	30-1000	960.23	-71.60	0.069	4	PASS
		1000-13000	8656.00	-66.78	0.210	20	

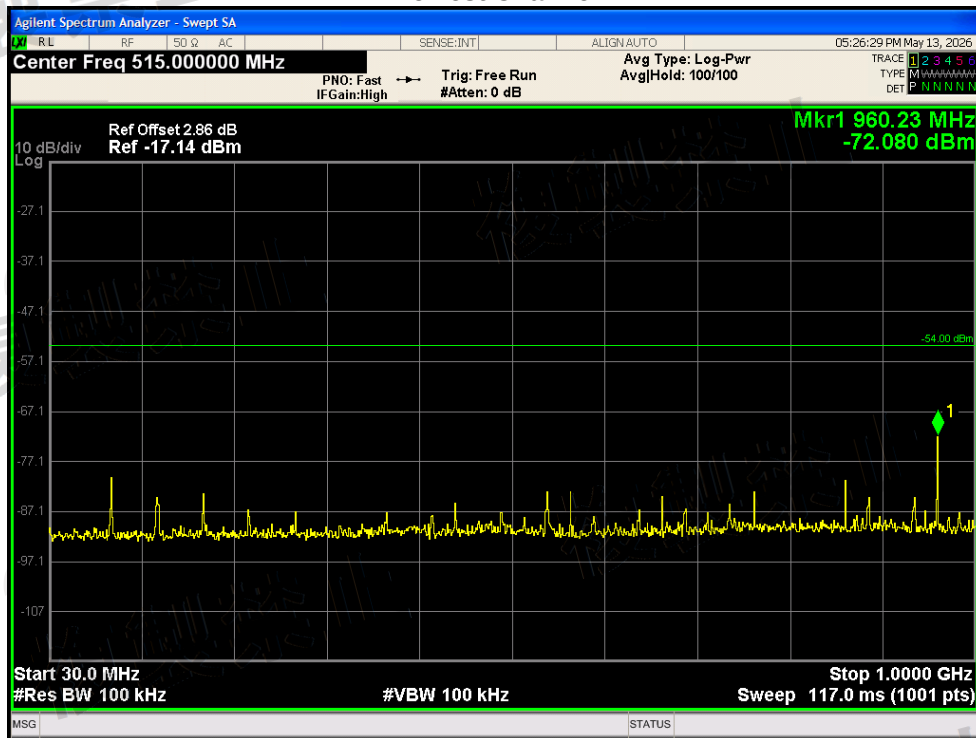
BLE(2M):

LEE (2W):

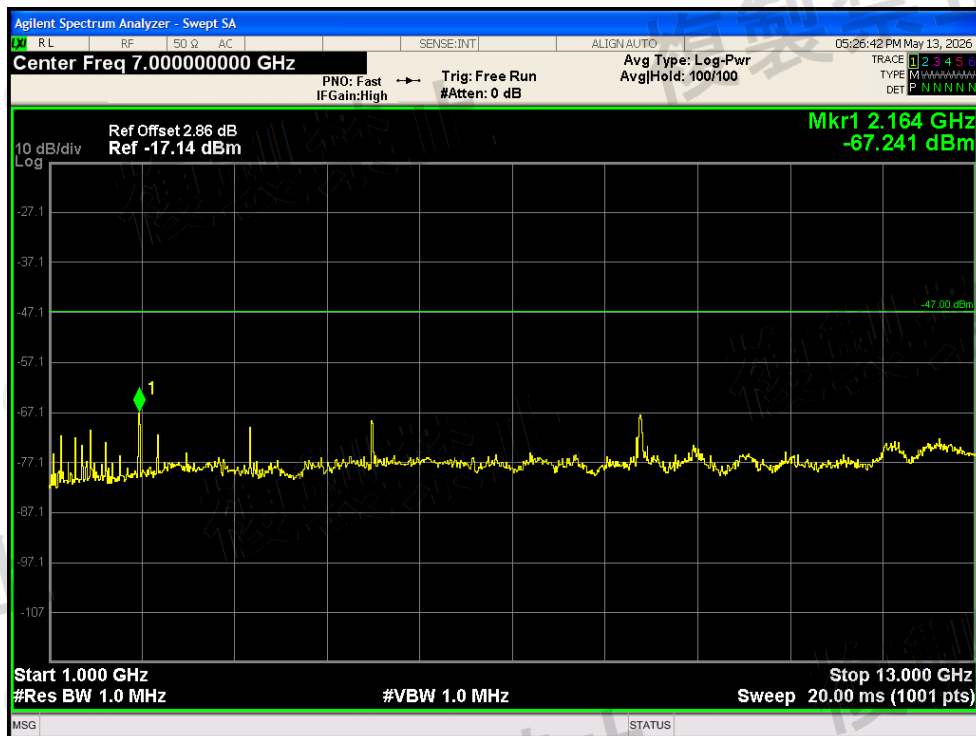
Test channel: Lowest Channel							
Test conditions		Frequency (MHz)	Record Frequency (MHz)	Read Level (dBm)	Read Level (nW)	Limit (nW)	Result
Volt.(dc)	Temp.						
3.7V	25℃	30-1000	960.23	-71.45	0.072	4	PASS
		1000-13000	2164.00	-66.73	0.212	20	
Test channel: Middle Channel							
Test conditions		Frequency (MHz)	Record Frequency (MHz)	Read Level (dBm)	Read Level (nW)	Limit (nW)	Result
Volt.(dc)	Temp.						
3.7V	25℃	30-1000	960.23	-71.57	0.070	4	PASS
		1000-13000	2416.00	-64.33	0.369	20	
Test channel: Highest Channel							
Test conditions		Frequency (MHz)	Record Frequency (MHz)	Read Level (dBm)	Read Level (nW)	Limit (nW)	Result
Volt.(dc)	Temp.						
3.7V	25℃	30-1000	960.23	-71.78	0.066	4	PASS
		1000-13000	2164.00	-66.59	0.219	20	

Test plots as follows:

Lowest Channel

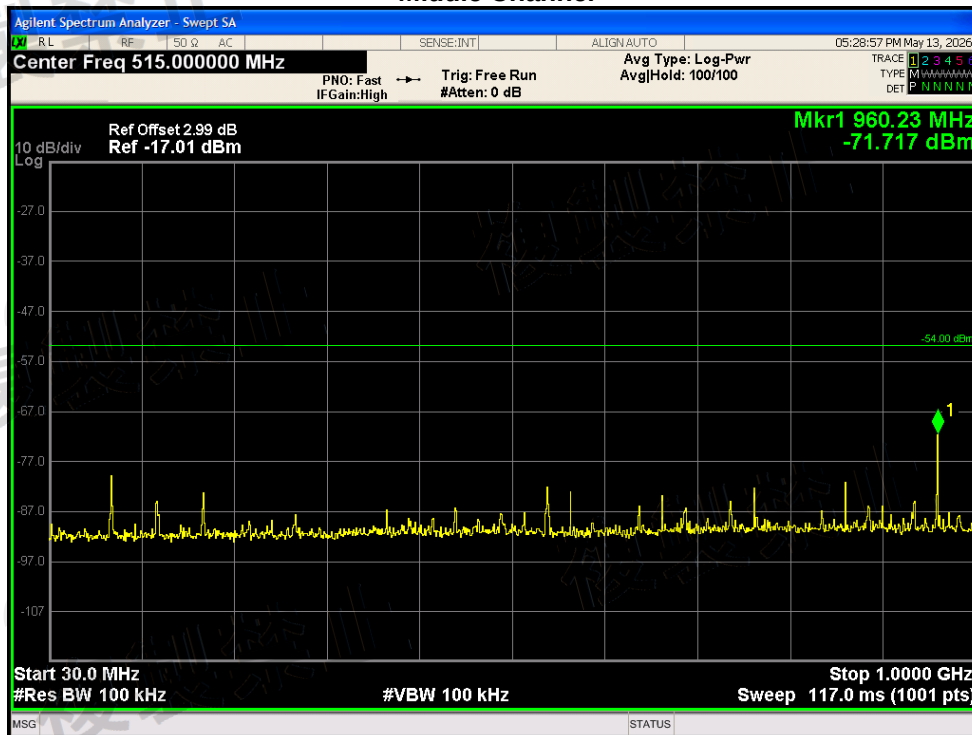


30MHz~1GHz

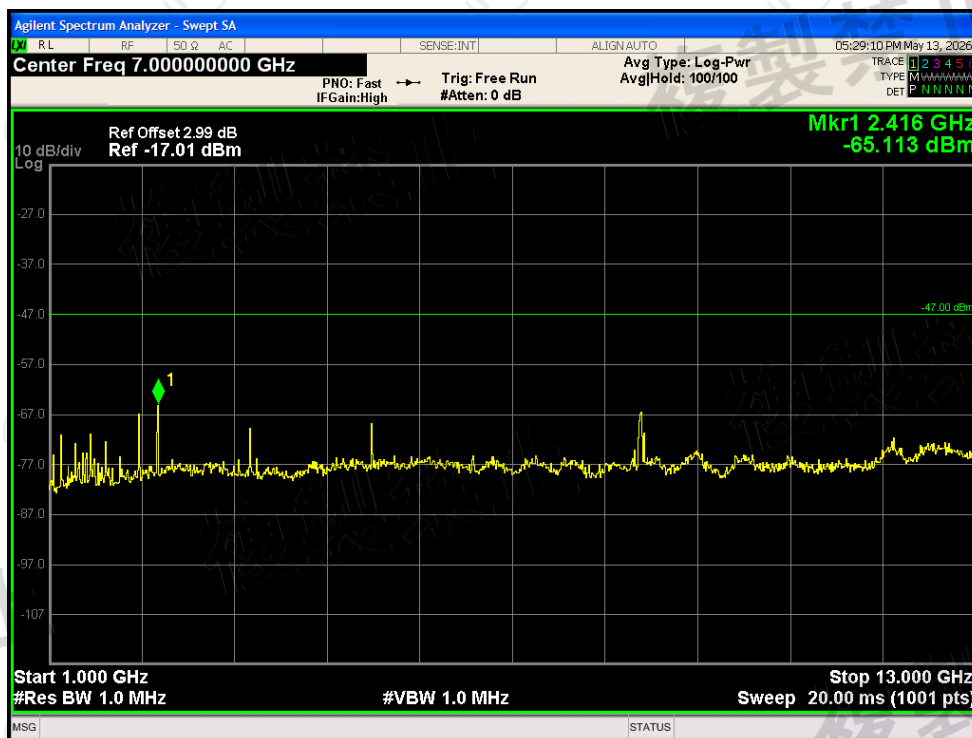


1GHz~13GHz

Middle Channel

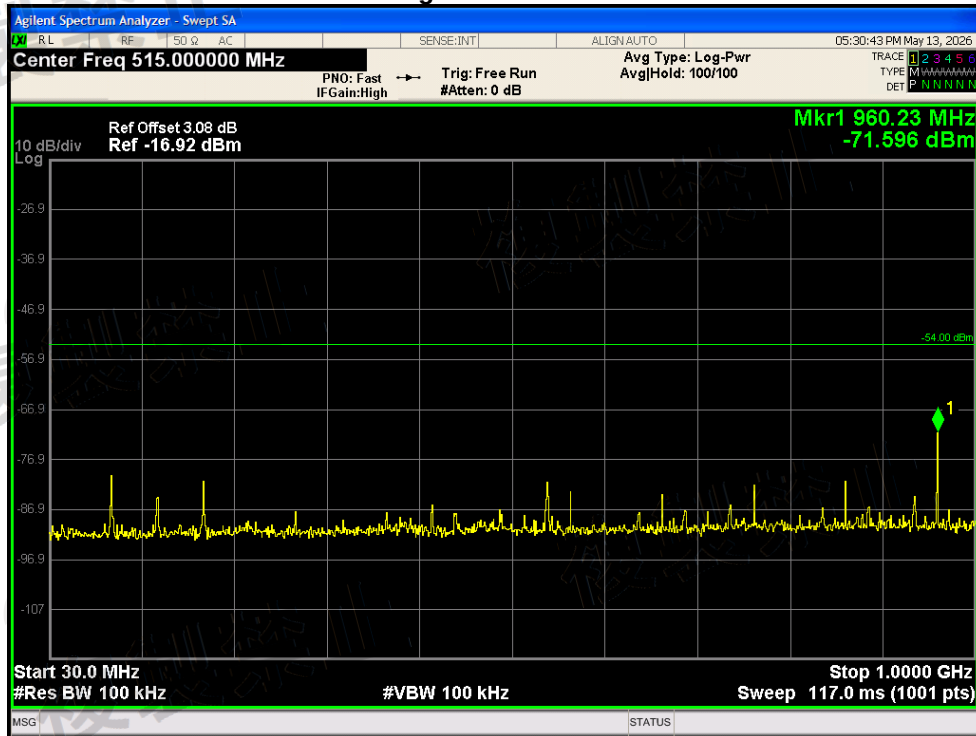


30MHz~1GHz

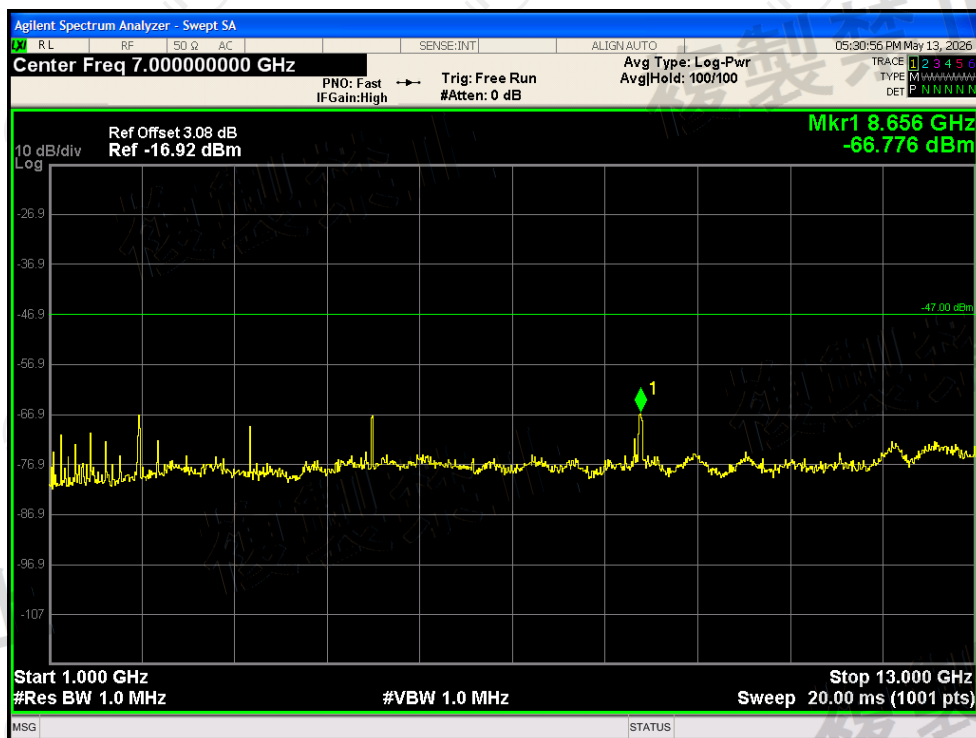


1GHz~13GHz

Highest Channel

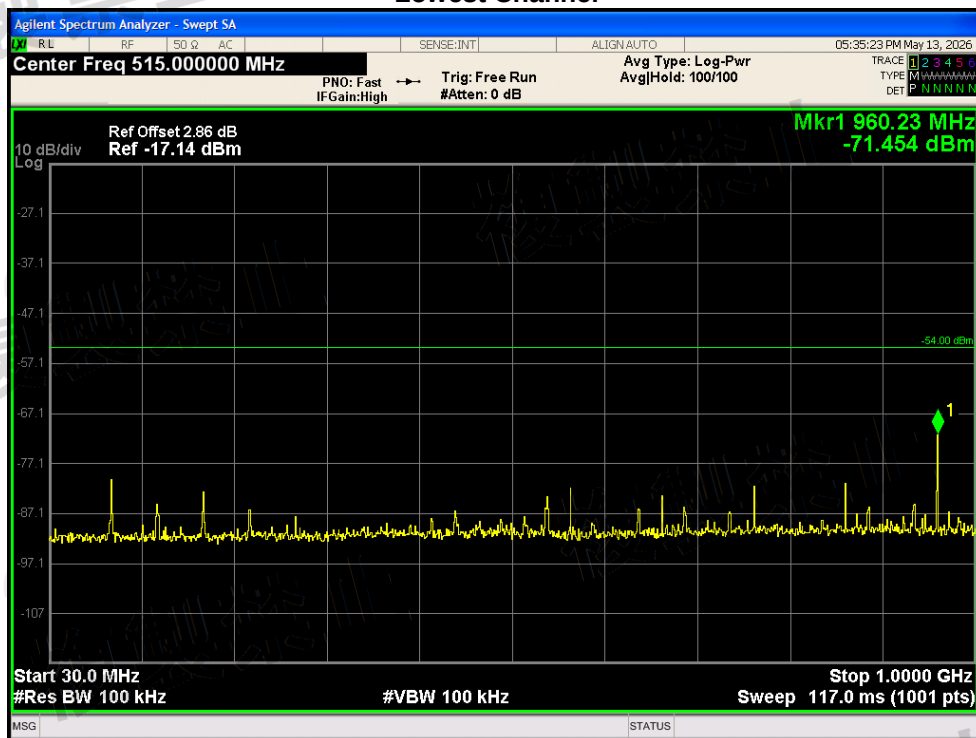


30MHz~1GHz

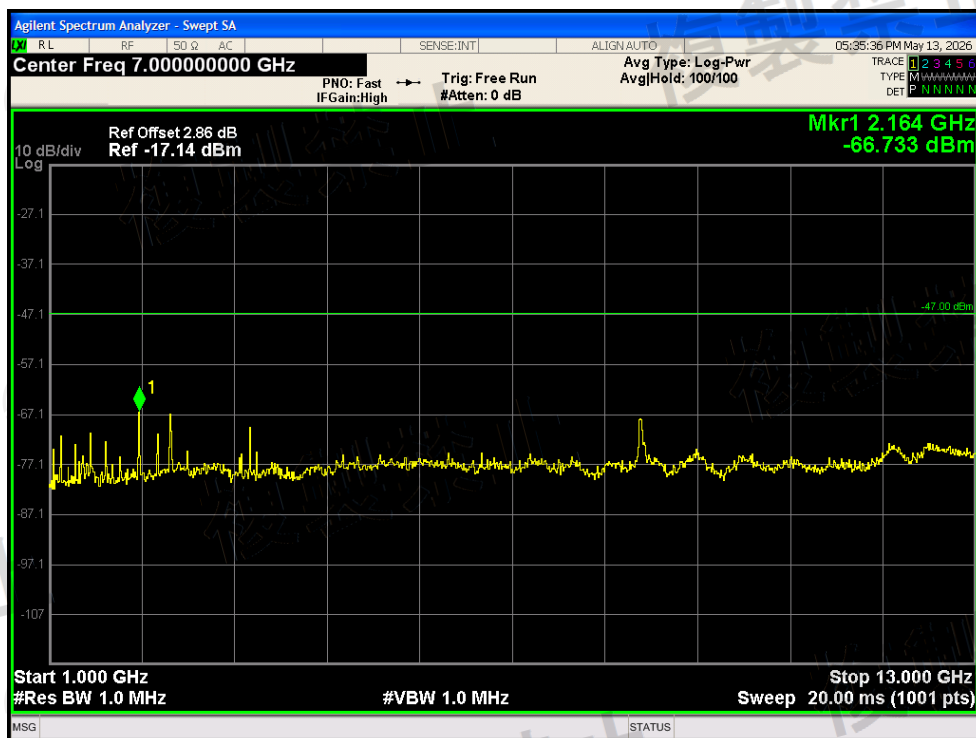


1GHz~13GHz

Lowest Channel

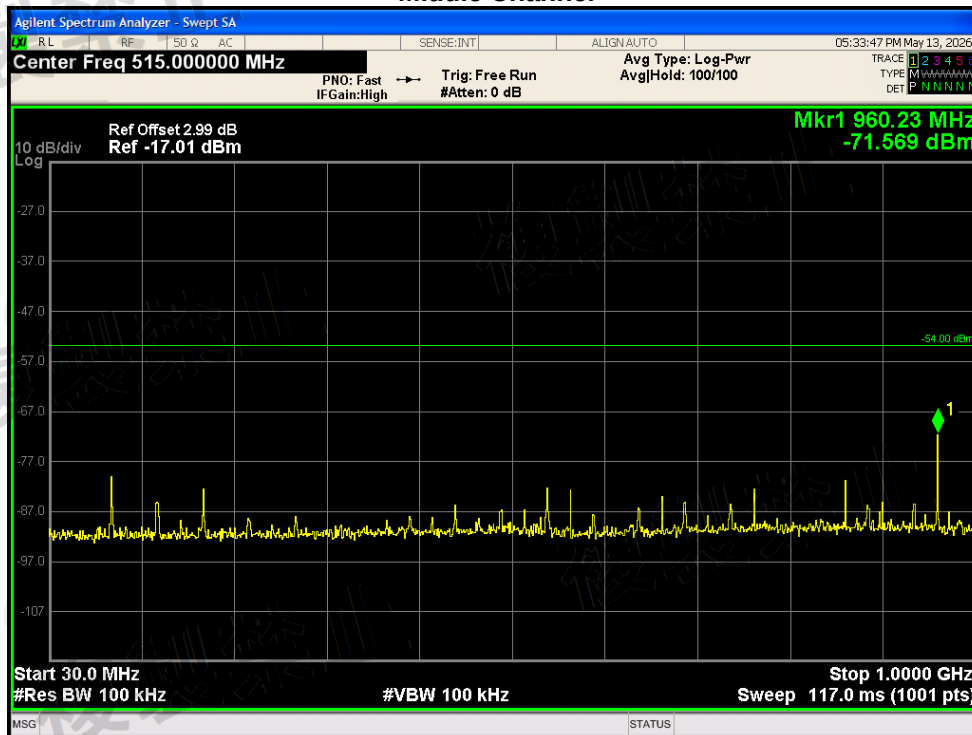


30MHz~1GHz

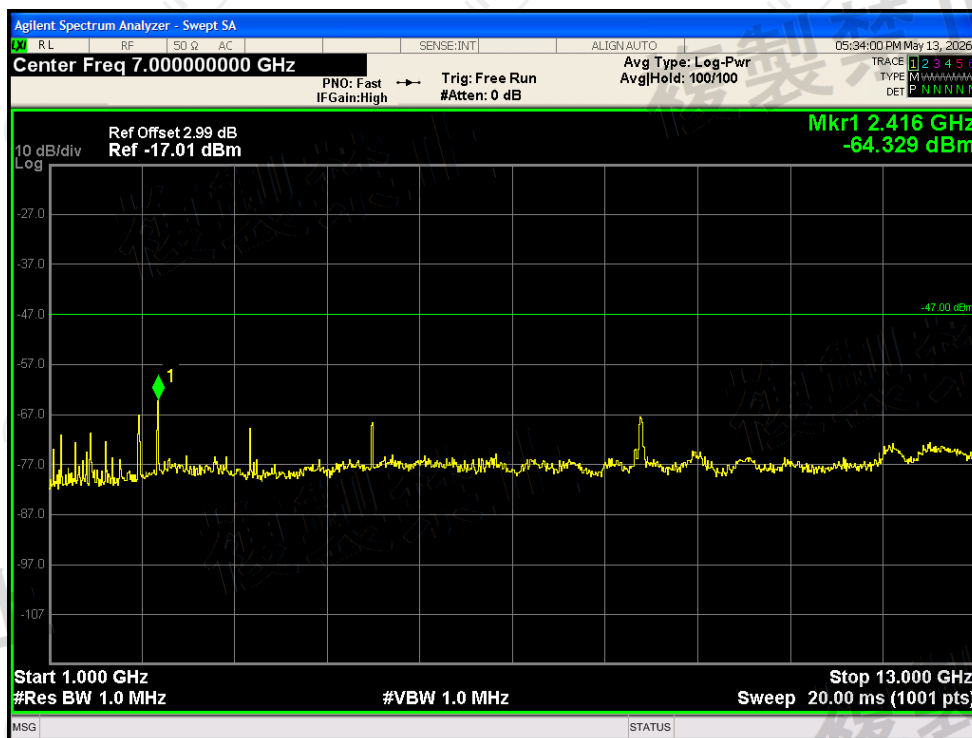


1GHz~13GHz

Middle Channel

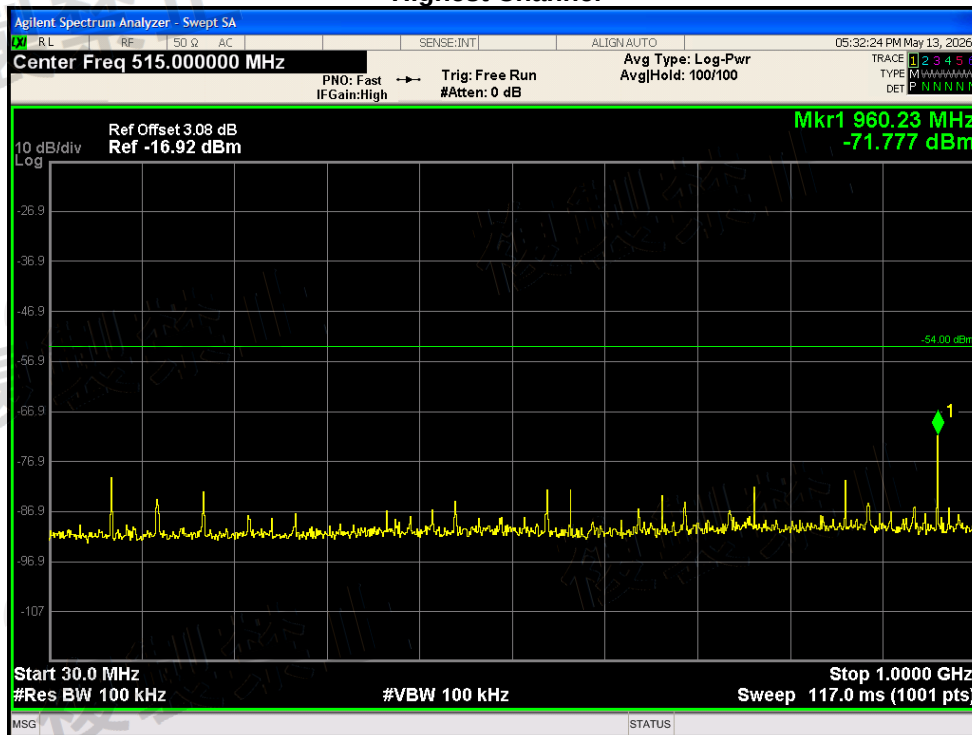


30MHz~1GHz

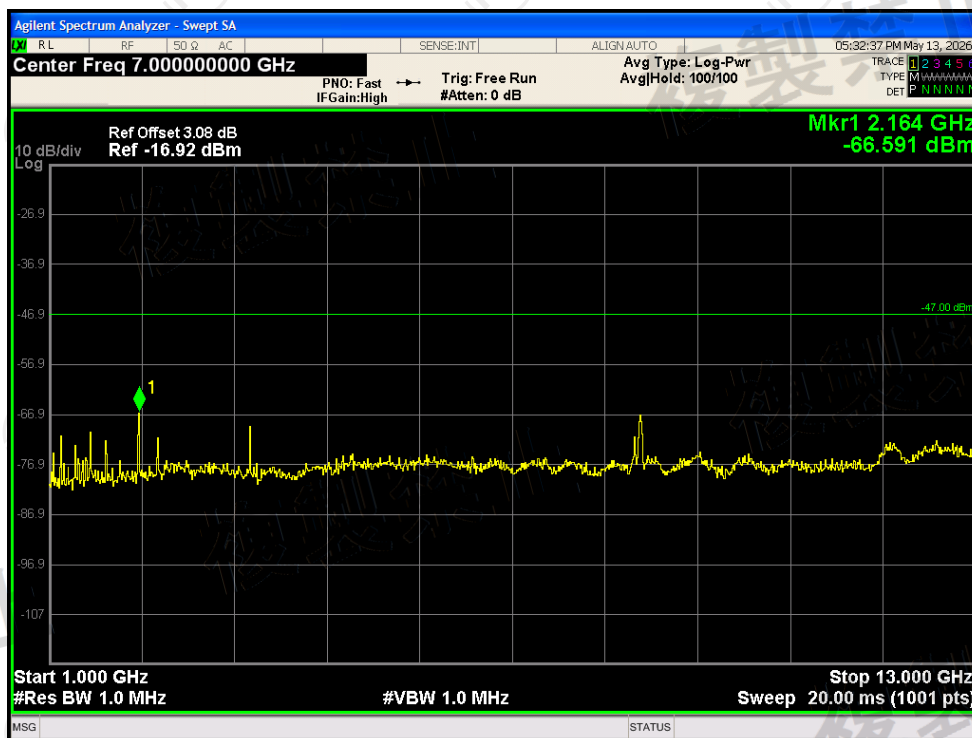


1GHz~13GHz

Highest Channel



30MHz~1GHz



1GHz~13GHz

6.4. Antenna power and deviation

6.4.1. Test Specification

Test Requirement:	Article 2 paragraph 1 item 19
Test Method:	Appendix No.43 Notification No.88 of MIC, 2004 section 6
Limit:	Antenna Power: 10mW Deviation: + 20% EIRP Limit: 12.14dBm
Test Setup:	 The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A cable connects it to a yellow box on the right labeled 'EUT' (Equipment Under Test).
Test Procedure:	1. Connect the UUT to the spectrum analyzer and use the following settings: Centre Frequency: The centre frequency of the channel under test. RBW: >99%OCB/VBW=RBW / Span: Wide enough to cover the complete power envelope of the signal of the EUT. / Detector: Peak. / Trace Mode: Max Hold. 2. When the trace is complete, find the peak value of the power envelope and record the frequency. 3. Calculated the Maximum deviation and recorded the results. Deviation = (Antenna Power – Rated Output Power) / Rated Output Power * 100%
Test Result:	PASS

6.4.2. Test data**BLE(1M):****Lowest channel**

Test Condition		Mode	Measured Power (dBm)	Antenna Power (mW)	Limit (mW)	Rated Power (mW)	Maximum Deviation (%)	Limit (%)	Result
Volt. (dc)	Temp.								
3.7V	25°C	GFSK	2.56	1.80	10	2.00	-10.00	20	PASS

*The Rated Power is 2.00mW, which declared by manufacturer.**Maximum Tolerance = (Antenna Power - Rated Power) / Rated power * 100%***Middle channel**

Test Condition		Mode	Measured Power (dBm)	Antenna Power (mW)	Limit (mW)	Rated Power (mW)	Maximum Deviation (%)	Limit (%)	Result
Volt. (dc)	Temp.								
3.7V	25°C	GFSK	3.03	2.01	10	2.00	0.50	20	PASS

*The Rated Power is 2.00mW, which declared by manufacturer.**Maximum Tolerance = (Antenna Power - Rated Power) / Rated power * 100%***Highest channel**

Test Condition		Mode	Measured Power (dBm)	Antenna Power (mW)	Limit (mW)	Rated Power (mW)	Maximum Deviation (%)	Limit (%)	Result
Volt. (dc)	Temp.								
3.7V	25°C	GFSK	2.33	1.71	10	2.00	-14.50	20	PASS

*The Rated Power is 2.00mW, which declared by manufacturer.**Maximum Tolerance = (Antenna Power - Rated Power) / Rated power * 100%*

BLE(2M):

Lowest channel

Test Condition		Mode	Measured Power (dBm)	Antenna Power (mW)	Limit (mW)	Rated Power (mW)	Maximum Deviation (%)	Limit (%)	Result
Volt. (dc)	Temp.								
3.7V	25°C	GFSK	2.35	1.72	10	2.00	-14.00	20	PASS

The Rated Power is 2.00mW, which declared by manufacturer.

Maximum Tolerance = (Antenna Power - Rated Power) / Rated power * 100%

Middle channel

Test Condition		Mode	Measured Power (dBm)	Antenna Power (mW)	Limit (mW)	Rated Power (mW)	Maximum Deviation (%)	Limit (%)	Result
Volt. (dc)	Temp.								
3.7V	25°C	GFSK	2.72	1.87	10	2.00	-6.50	20	PASS

The Rated Power is 2.00mW, which declared by manufacturer.

Maximum Tolerance = (Antenna Power - Rated Power) / Rated power * 100%

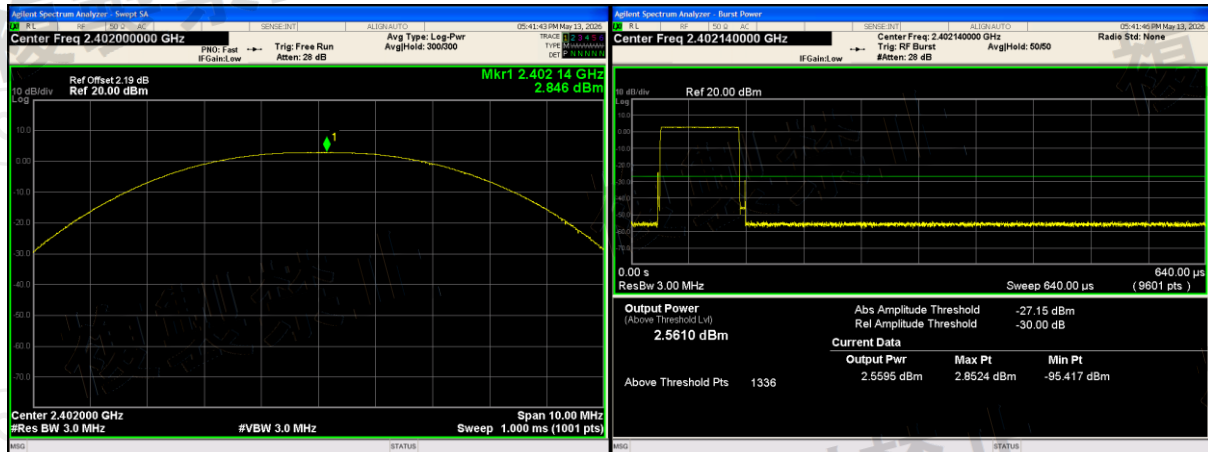
Highest channel

Test Condition		Mode	Measured Power (dBm)	Antenna Power (mW)	Limit (mW)	Rated Power (mW)	Maximum Deviation (%)	Limit (%)	Result
Volt. (dc)	Temp.								
3.7V	25°C	GFSK	2.09	1.62	10	2.00	-19.00	20	PASS

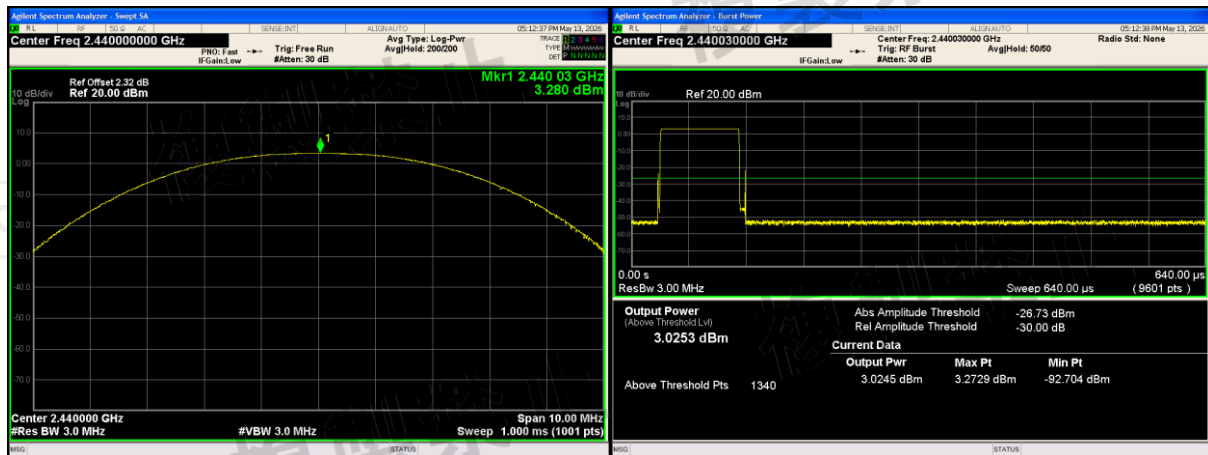
The Rated Power is 2.00mW, which declared by manufacturer.

Maximum Tolerance = (Antenna Power - Rated Power) / Rated power * 100%

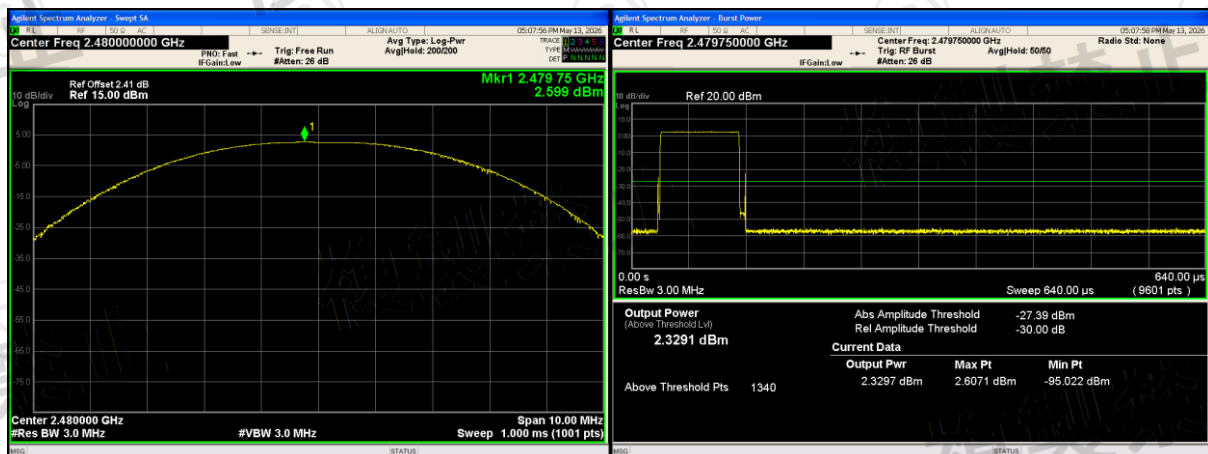
Test plots as follows:
BLE(1M):



Lowest channel

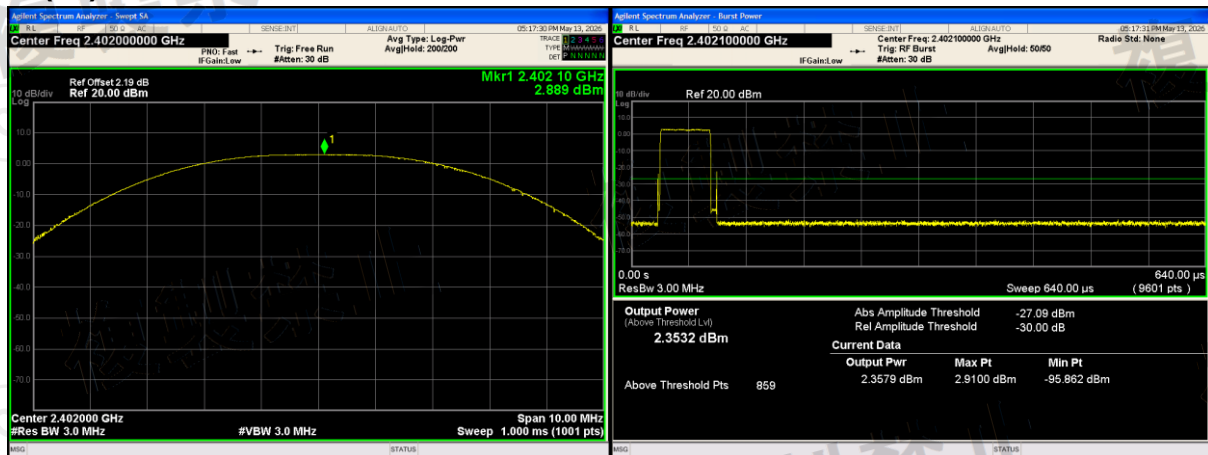


Middle channel

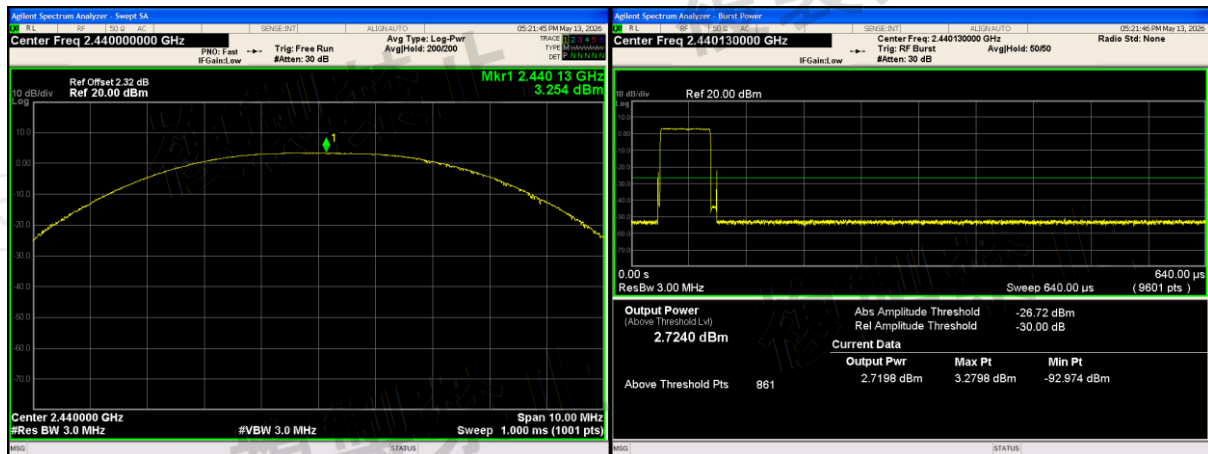


Highest channel

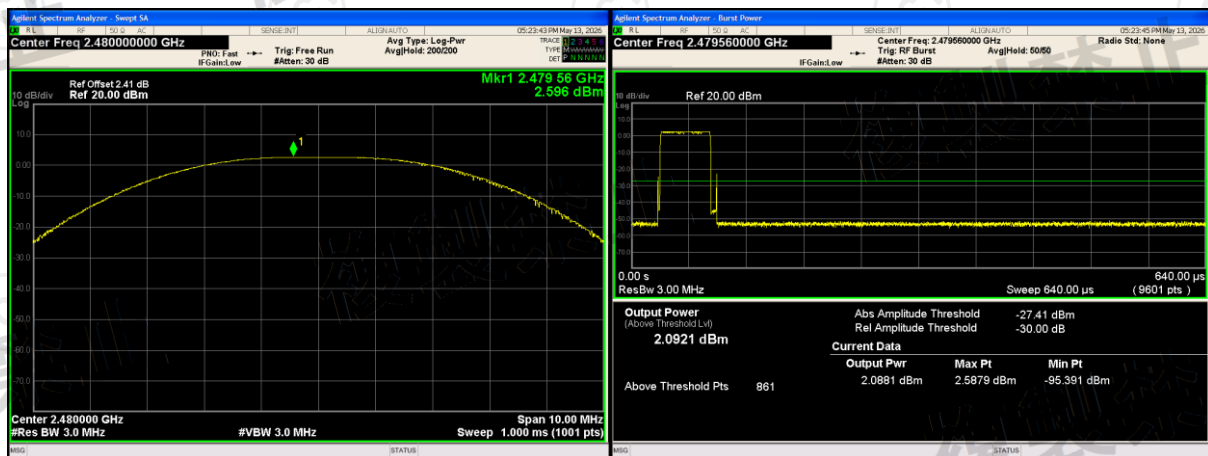
BLE(2M):



Lowest channel



Middle channel



Highest channel

**EIRP Power
BLE(1M):****Lowest channel**

Test Condition		mode	Antenna Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Volt. (dc)	Temp. (°C)					
3.7V	25°C	GFSK	2.56	2.56	12.14	PASS
HPBA=360°, when the absolute gain of the transmitting antenna of the radio equipment is less than 2.14dBi, effective radiation power (measured value) is to be the antenna power.						

Middle channel

Test Condition		mode	Antenna Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Volt. (dc)	Temp. (°C)					
3.7V	25°C	GFSK	3.03	3.03	12.14	PASS
HPBA=360°, when the absolute gain of the transmitting antenna of the radio equipment is less than 2.14dBi, effective radiation power (measured value) is to be the antenna power.						

Highest channel

Test Condition		mode	Antenna Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Volt. (dc)	Temp. (°C)					
3.7V	25°C	GFSK	2.33	2.33	12.14	PASS
HPBA=360°, when the absolute gain of the transmitting antenna of the radio equipment is less than 2.14dBi, effective radiation power (measured value) is to be the antenna power.						

BLE(2M):**Lowest channel**

Test Condition		mode	Antenna Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Volt. (dc)	Temp. (°C)					
3.7V	25°C	GFSK	2.35	2.35	12.14	PASS
HPBA=360°, when the absolute gain of the transmitting antenna of the radio equipment is less than 2.14dBi, effective radiation power (measured value) is to be the antenna power.						

Middle channel

Test Condition		mode	Antenna Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Volt. (dc)	Temp. (°C)					
3.7V	25°C	GFSK	2.72	2.72	12.14	PASS
HPBA=360°, when the absolute gain of the transmitting antenna of the radio equipment is less than 2.14dBi, effective radiation power (measured value) is to be the antenna power.						

Highest channel

Test Condition		mode	Antenna Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Volt. (dc)	Temp. (°C)					
3.7V	25°C	GFSK	2.09	2.09	12.14	PASS
HPBA=360°, when the absolute gain of the transmitting antenna of the radio equipment is less than 2.14dBi, effective radiation power (measured value) is to be the antenna power.						

6.5. Spurious Radiation Or Extraneous Emission Strength

6.5.1. Test Specification

Test Requirement:	Article 2 paragraph 1 item 19
Test Method:	Appendix No.43 Notification No.88 of MIC, 2004 section 5
Limit:	30MHz~1000MHz: 2.5 μ W/MHz (-26dBm) 1000MHz~2387MHz: 2.5 μ W/MHz (-26dBm) 2387MHz~2400MHz: 25 μ W/MHz (-16dBm) 2483.5MHz~2496.5MHz: 25 μ W/MHz (-16dBm) 2496.5MHz~12.75GHz: 2.5 μ W/MHz (-26dBm)
Test Setup:	 Spectrum Analyzer EUT
Test Procedure:	1. EUT have transmitted the maximum modulation signal and fixed channelize. 2. Setting of SA is following as: RBW: 1MHz / VBW: 1MHz/ Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold. EUT have transmitted the maximum modulation signal and fixed channel (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device)
Test Result:	PASS

6.5.2. Test Data

BLE(1M):

Lowest Channel

Test Condition		Frequency Range (MHz)	Record Frequency (MHz)	Read Level (dBm)	Compensate for RBW(dB)	Result (dBm)	Result (μW/MHz)	Limit (μW/MHz)	Result
Volt.(dc)	Temp.								
3.7V	25°C	30-1000	782.72	-65.85	10	-55.85	0.003	2.5	PASS
		1000-2387	2385.60	-46.12	/	-46.12	0.024	2.5	
		2387-2400	2400.00	-32.55	/	-32.55	0.556	25	
		2483.5-2496.5	2495.75	-47.54	/	-47.54	0.018	25	
		2496.5-13000	4807.00	-39.25	/	-39.25	0.119	2.5	

Middle Channel

Test Condition		Frequency Range (MHz)	Record Frequency (MHz)	Read Level (dBm)	Compensate for RBW(dB)	Result (dBm)	Result (μW/MHz)	Limit (μW/MHz)	Result
Volt.(dc)	Temp.								
3.7V	25°C	30-1000	863.23	-66.04	10	-56.04	0.002	2.5	PASS
		1000-2387	1936.20	-56.00	/	-56.00	0.003	2.5	
		2387-2400	2391.02	-52.53	/	-52.53	0.006	25	
		2483.5-2496.5	2488.43	-51.71	/	-51.71	0.007	25	
		2496.5-13000	4881.00	-36.77	/	-36.77	0.210	2.5	

Highest channel

Test Condition		Frequency Range (MHz)	Record Frequency (MHz)	Read Level (dBm)	Compensate for RBW(dB)	Result (dBm)	Result (μW/MHz)	Limit (μW/MHz)	Result
Volt.(dc)	Temp.								
3.7V	25°C	30-1000	828.31	-45.96	10	-35.96	0.254	2.5	PASS
		1000-2387	2226.10	-55.24	/	-55.24	0.003	2.5	
		2387-2400	2399.35	-56.28	/	-56.28	0.002	25	
		2483.5-2496.5	2483.83	-40.94	/	-40.94	0.081	25	
		2496.5-13000	4965.00	-36.85	/	-36.85	0.207	2.5	

Note: Compensate 10dB is for Exchange rate of RBW

Exchange rate of RBW = $10 \cdot \log_{10}(\text{Reference bandwidth}/\text{RBW at measurement}) = 10[\text{dB}]$

where Reference bandwidth = 1 MHz, RBW at measurement = 100 kHz

BLE(2M):

Lowest Channel

Test Condition		Frequency Range (MHz)	Record Frequency (MHz)	Read Level (dBm)	Compensate for RBW(dB)	Result (dBm)	Result (μW/MHz)	Limit (μW/MHz)	Result
Volt.(dc)	Temp.								
3.7V	25°C	30-1000	987.39	-66.49	10	-56.49	0.002	2.5	PASS
		1000-2387	2384.20	-45.53	/	-45.53	0.028	2.5	
		2387-2400	2399.99	-19.94	/	-19.94	10.139	25	
		2483.5-2496.5	2485.07	-57.06	/	-57.06	0.002	25	
		2496.5-13000	4807.00	-40.92	/	-40.92	0.081	2.5	

Middle Channel

Test Condition		Frequency Range (MHz)	Record Frequency (MHz)	Read Level (dBm)	Compensate for RBW(dB)	Result (dBm)	Result (μW/MHz)	Limit (μW/MHz)	Result
Volt.(dc)	Temp.								
3.7V	25°C	30-1000	851.59	-66.49	10	-56.49	0.002	2.5	PASS
		1000-2387	2252.50	-56.21	/	-56.21	0.002	2.5	
		2387-2400	2391.65	-54.95	/	-54.95	0.003	25	
		2483.5-2496.5	2487.87	-53.82	/	-53.82	0.004	25	
		2496.5-13000	4881.00	-38.40	/	-38.40	0.145	2.5	

Highest channel

Test Condition		Frequency Range (MHz)	Record Frequency (MHz)	Read Level (dBm)	Compensate for RBW(dB)	Result (dBm)	Result (μW/MHz)	Limit (μW/MHz)	Result
Volt.(dc)	Temp.								
3.7V	25°C	30-1000	819.58	-66.24	10	-56.24	0.002	2.5	PASS
		1000-2387	2349.60	-56.46	/	-56.46	0.002	2.5	
		2387-2400	2399.86	-56.21	/	-56.21	0.002	25	
		2483.5-2496.5	2485.45	-34.72	/	-34.72	0.337	25	
		2496.5-13000	4965.00	-37.05	/	-37.05	0.197	2.5	

Note: Compensate 10dB is for Exchange rate of RBW

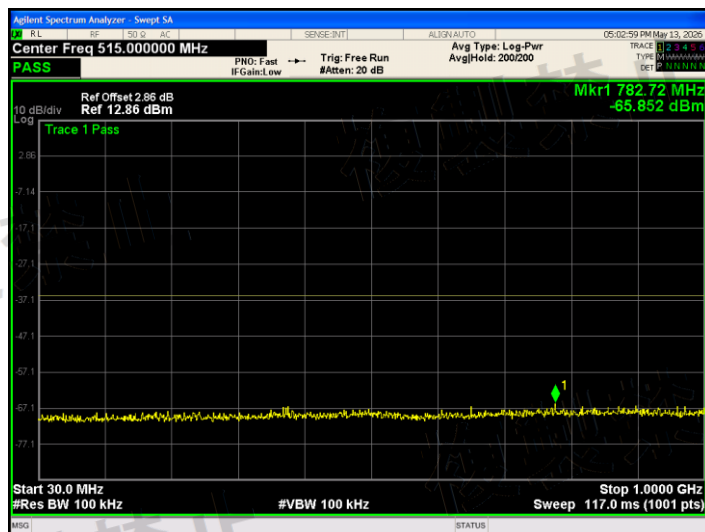
Exchange rate of RBW = $10 \cdot \log_{10}(\text{Reference bandwidth}/\text{RBW at measurement}) = 10[\text{dB}]$

where Reference bandwidth = 1 MHz, RBW at measurement = 100 kHz

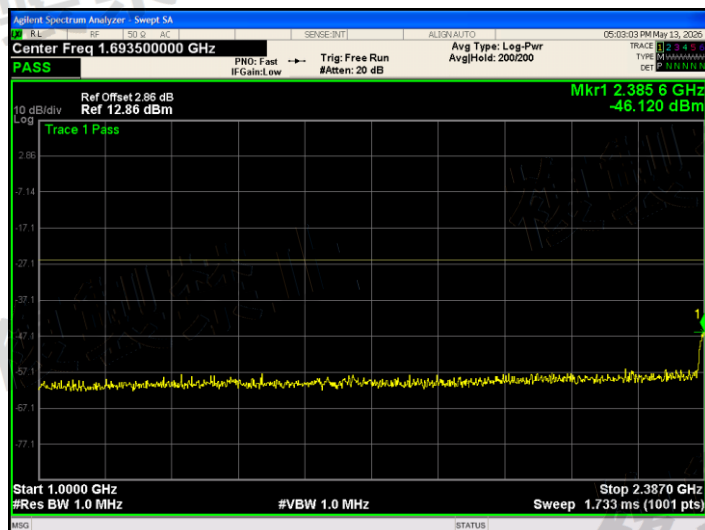
Test plots as follows:

BLE(1M):

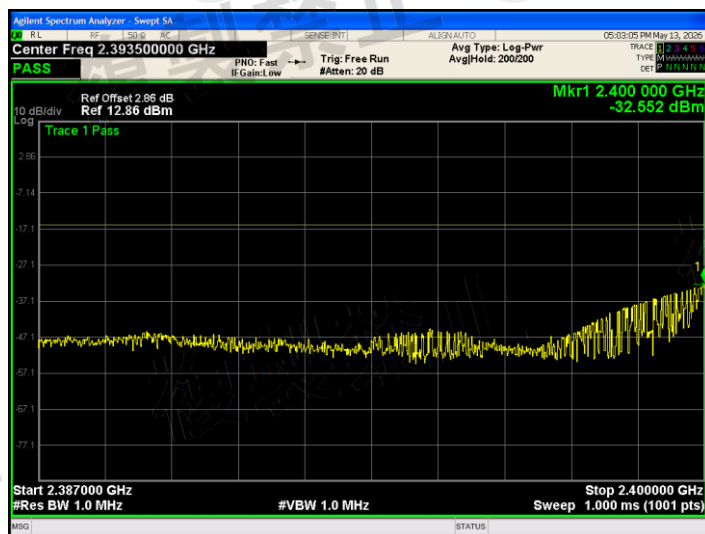
Lowest channel



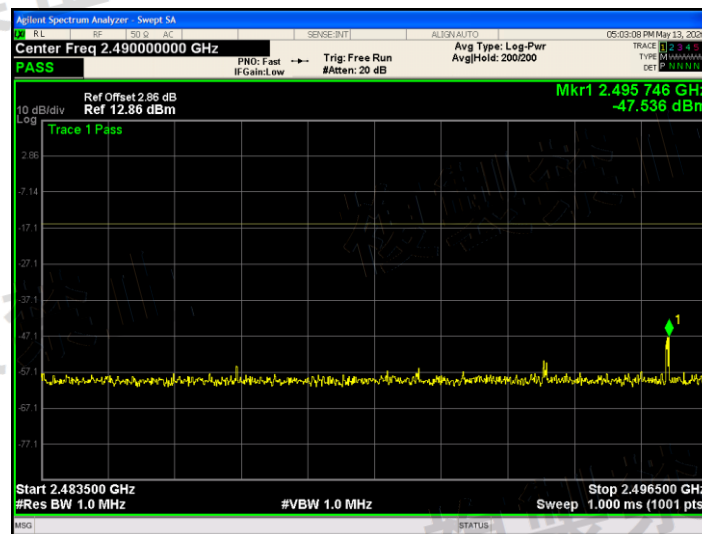
30 MHz – 1000 MHz



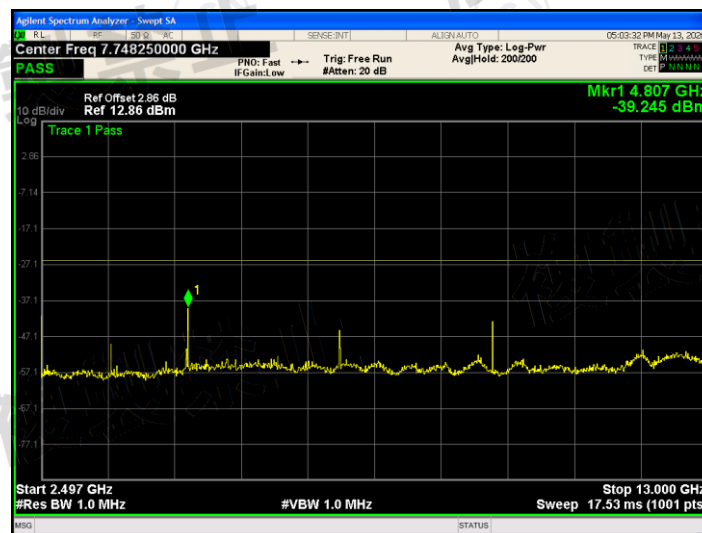
1000 MHz – 2387 MHz



2387 MHz – 2400 MHz

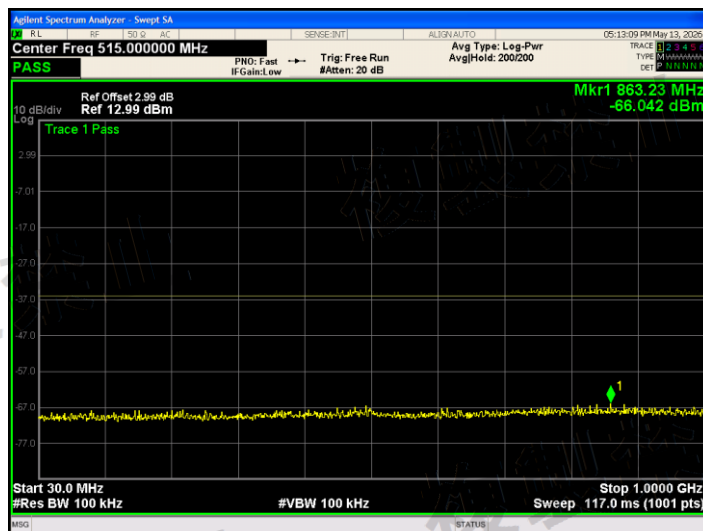


2483.5 MHz – 2496.5 MHz

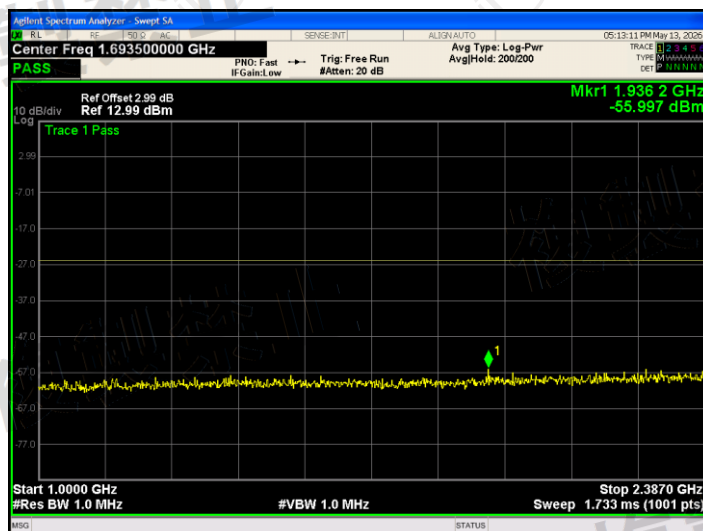


2496.5 MHz – 13000 MHz

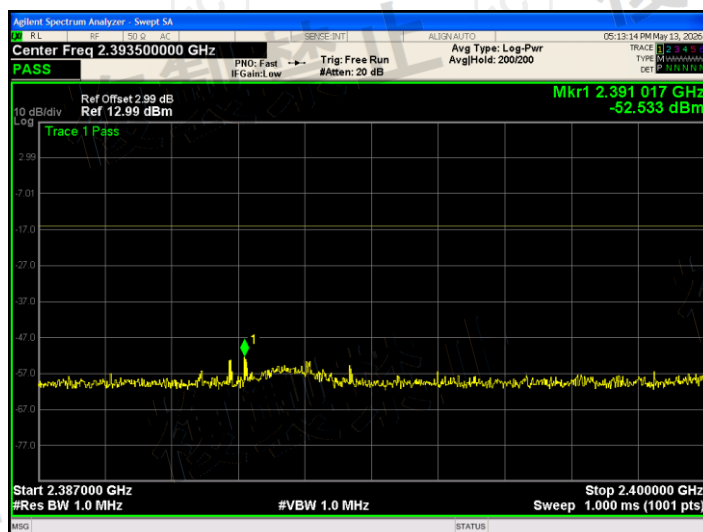
Middle channel



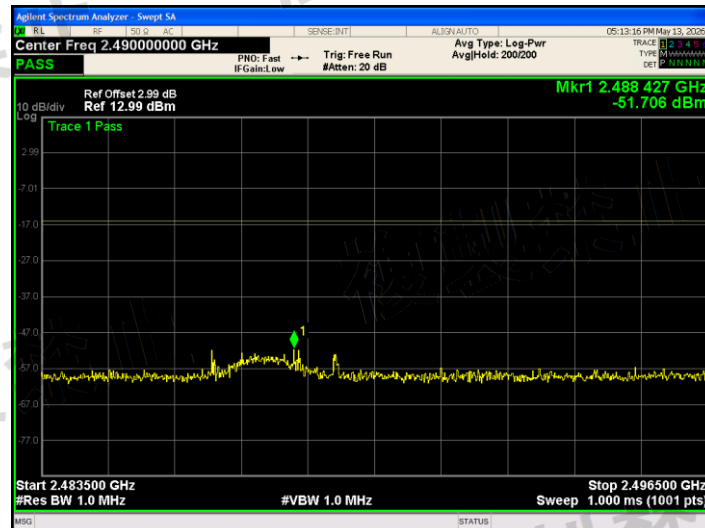
30 MHz – 1000 MHz



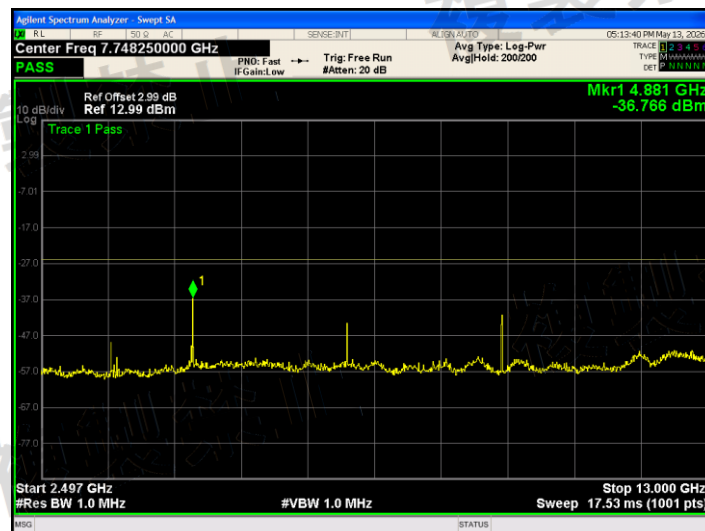
1000 MHz – 2387 MHz



2387 MHz – 2400 MHz

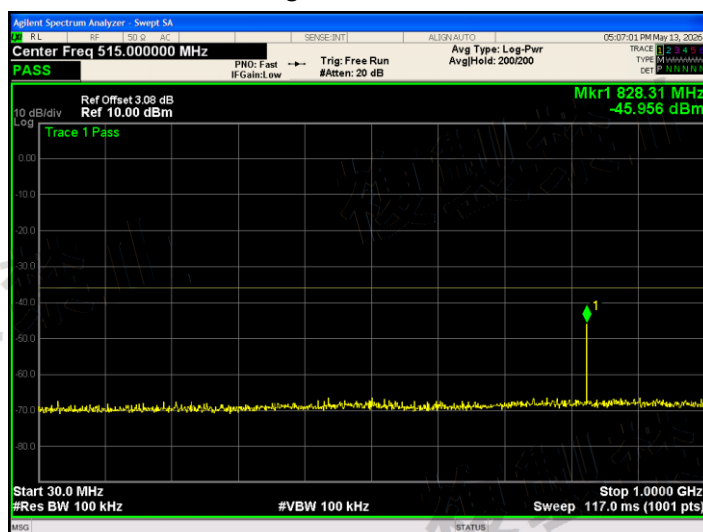


2483.5 MHz – 2496.5 MHz

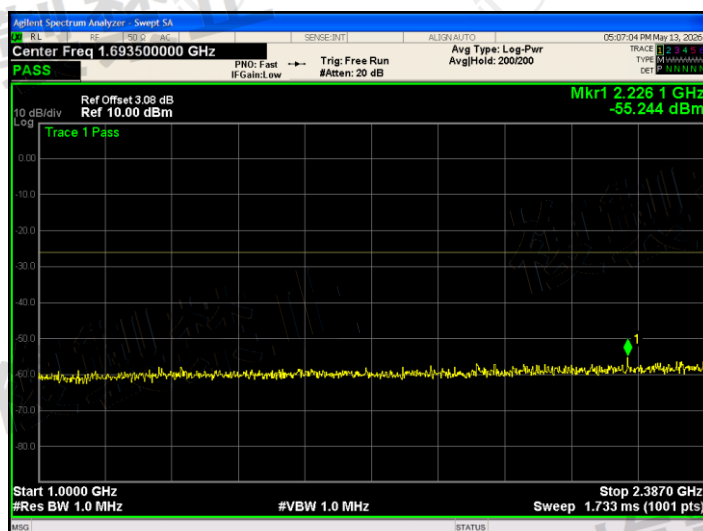


2496.5 MHz – 13000 MHz

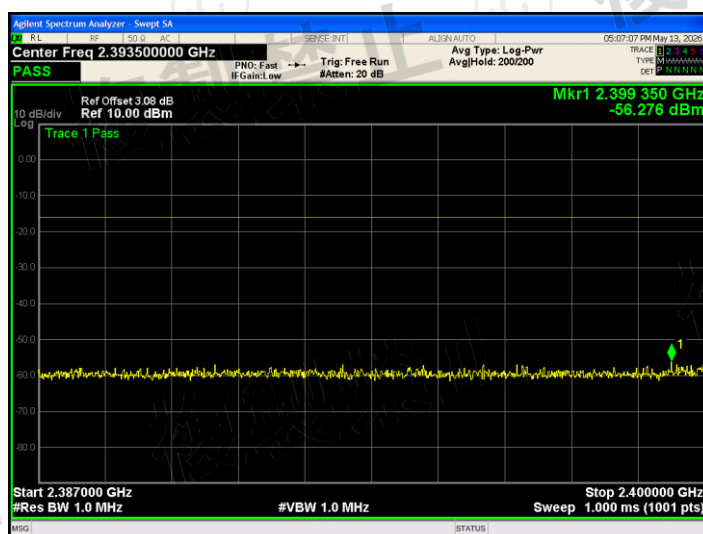
Highest channel



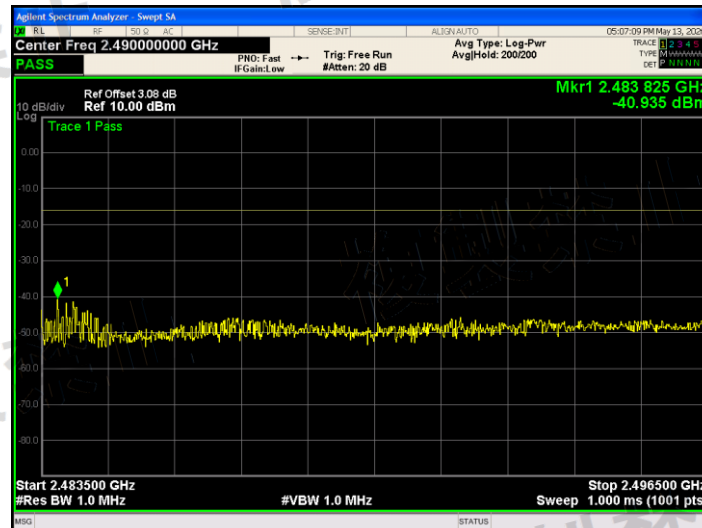
30 MHz – 1000 MHz



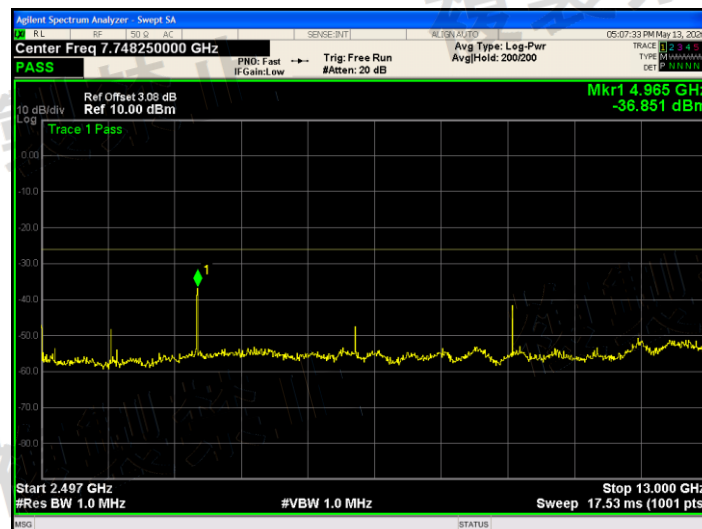
1000 MHz – 2387 MHz



2387 MHz – 2400 MHz



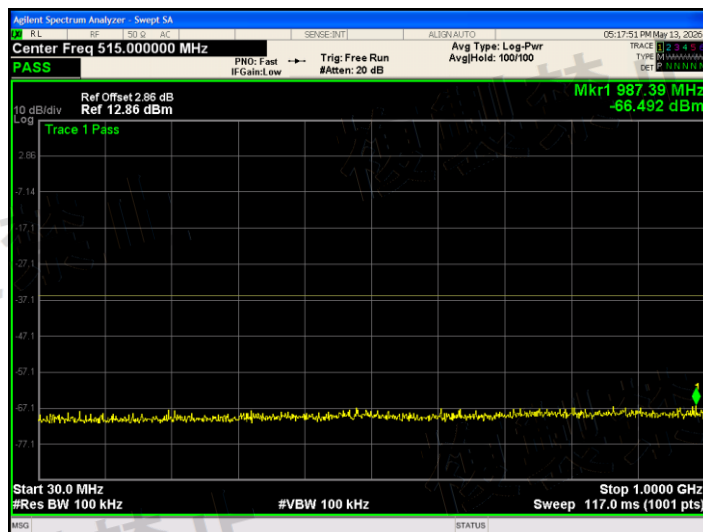
2483.5 MHz – 2496.5 MHz



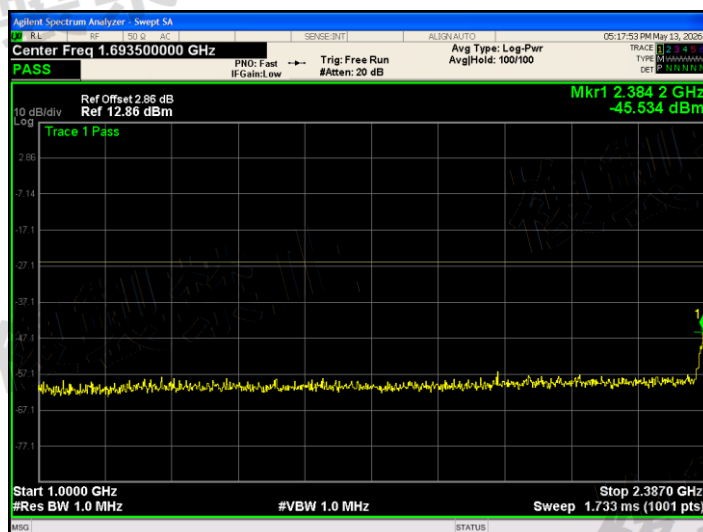
2496.5 MHz – 13000 MHz

BLE(2M):

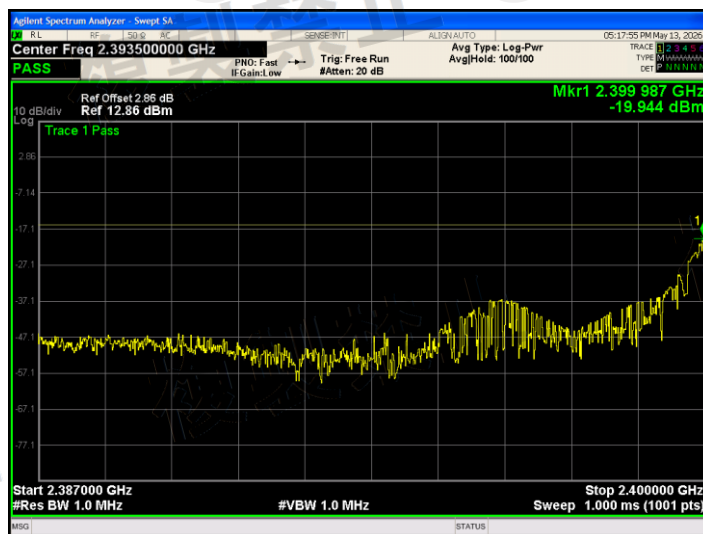
Lowest channel



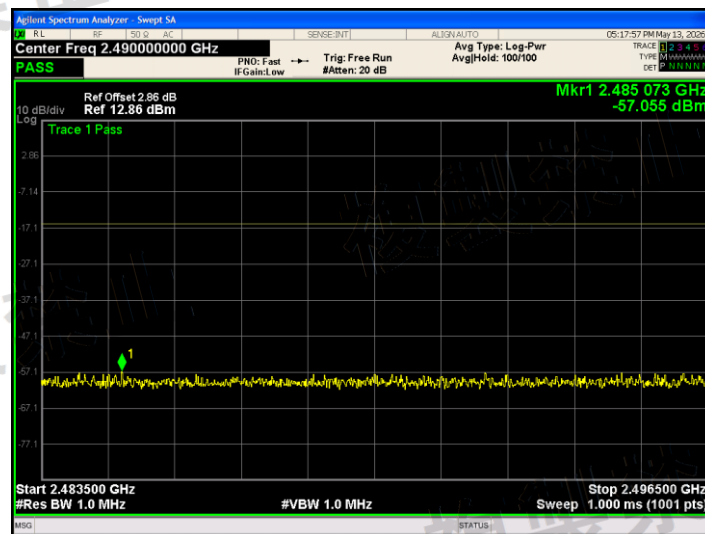
30 MHz – 1000 MHz



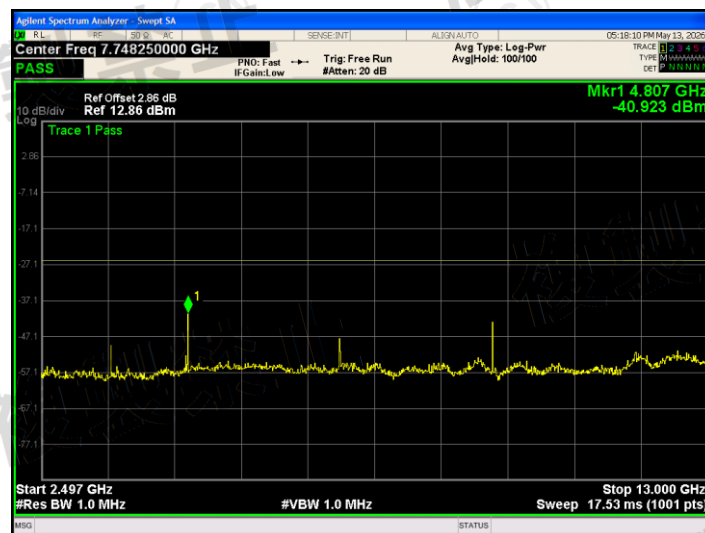
1000 MHz – 2387 MHz



2387 MHz – 2400 MHz

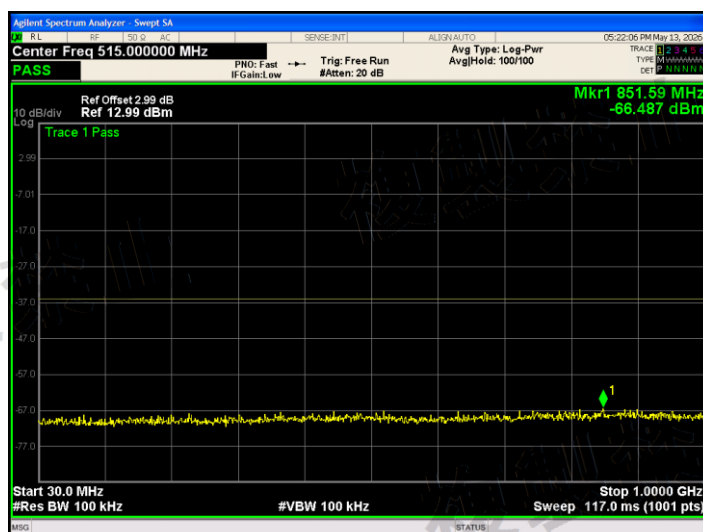


2483.5 MHz – 2496.5 MHz

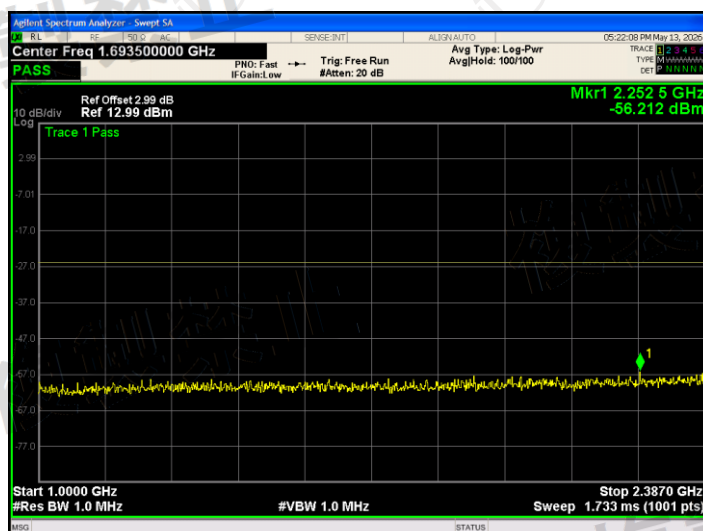


2496.5 MHz – 13000 MHz

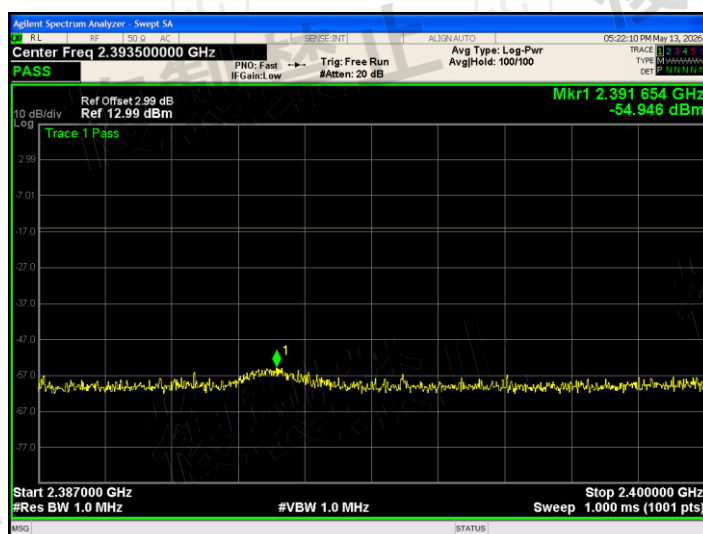
Middle channel



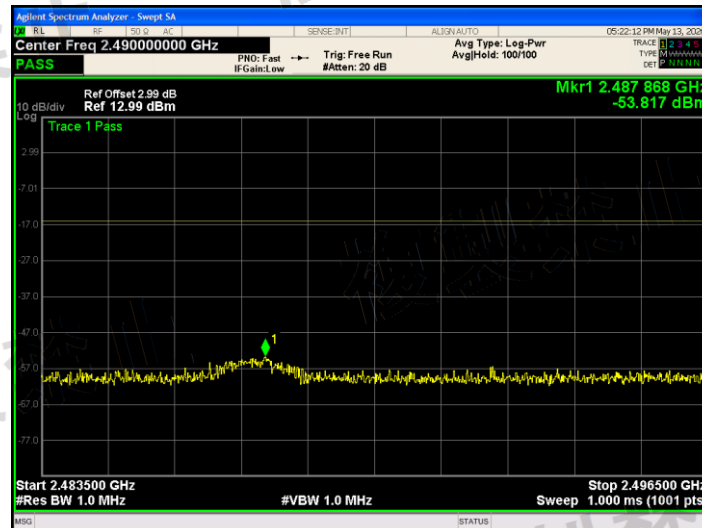
30 MHz – 1000 MHz



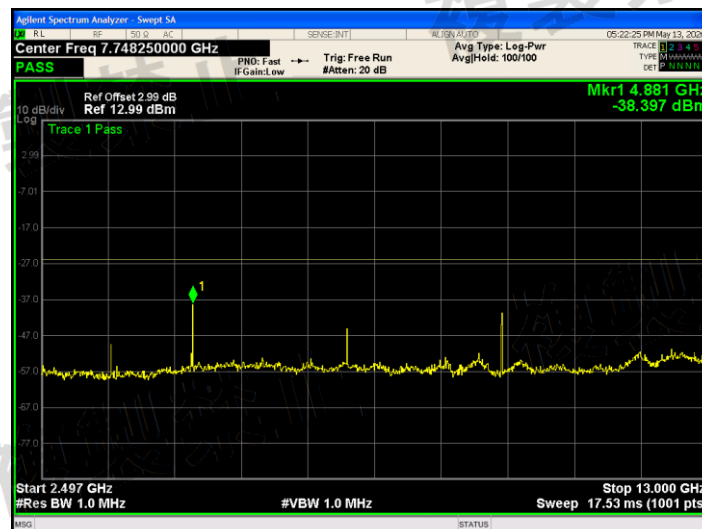
1000 MHz – 2387 MHz



2387 MHz – 2400 MHz

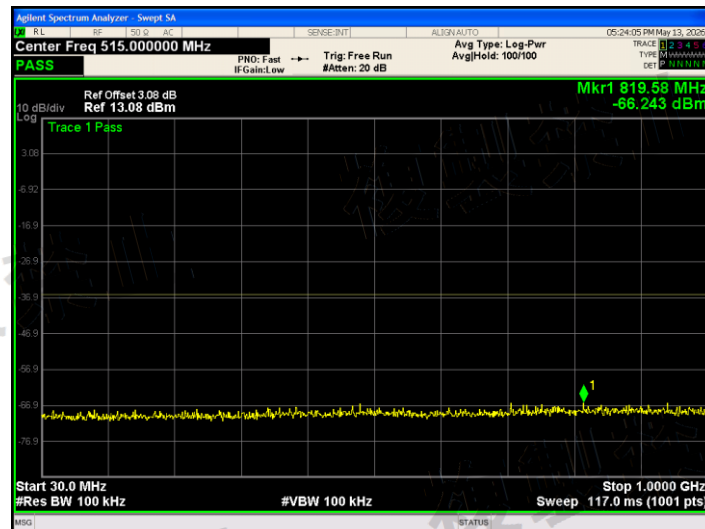


2483.5 MHz – 2496.5 MHz

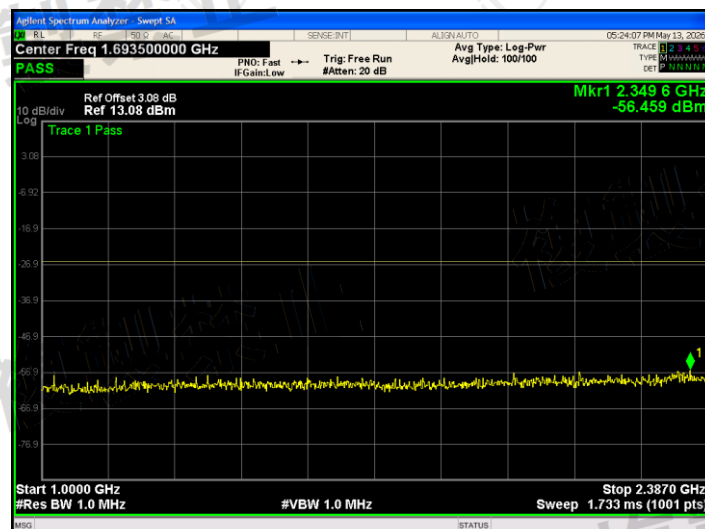


2496.5 MHz – 13000 MHz

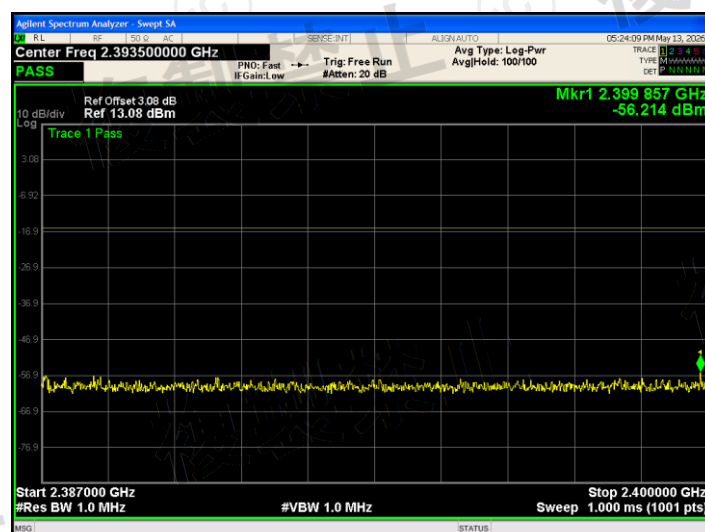
Highest channel



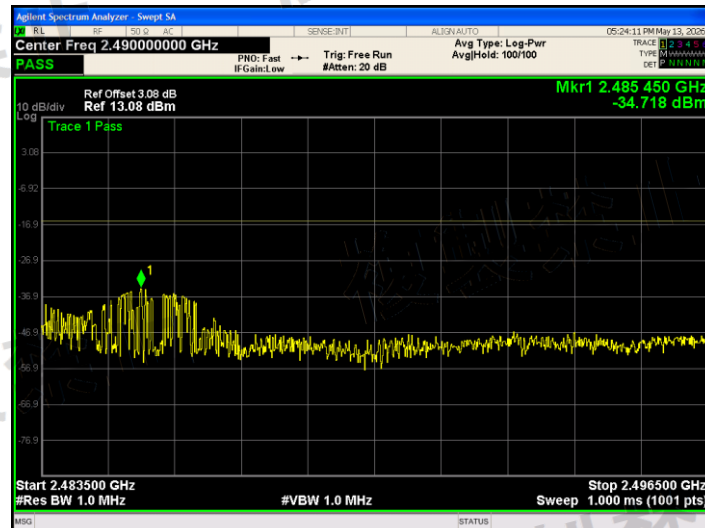
30 MHz – 1000 MHz



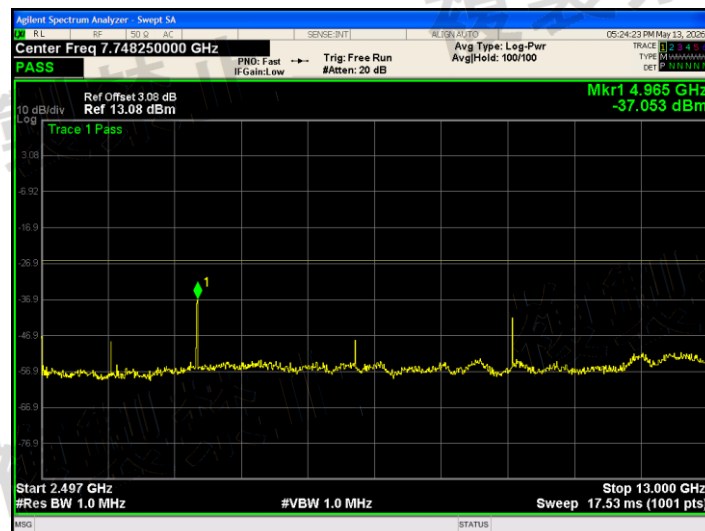
1000 MHz – 2387 MHz



2387 MHz – 2400 MHz



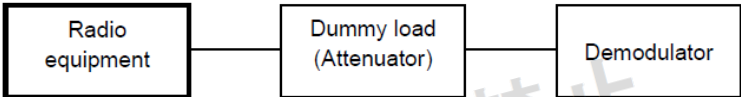
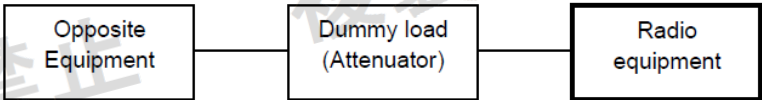
2483.5 MHz – 2496.5 MHz



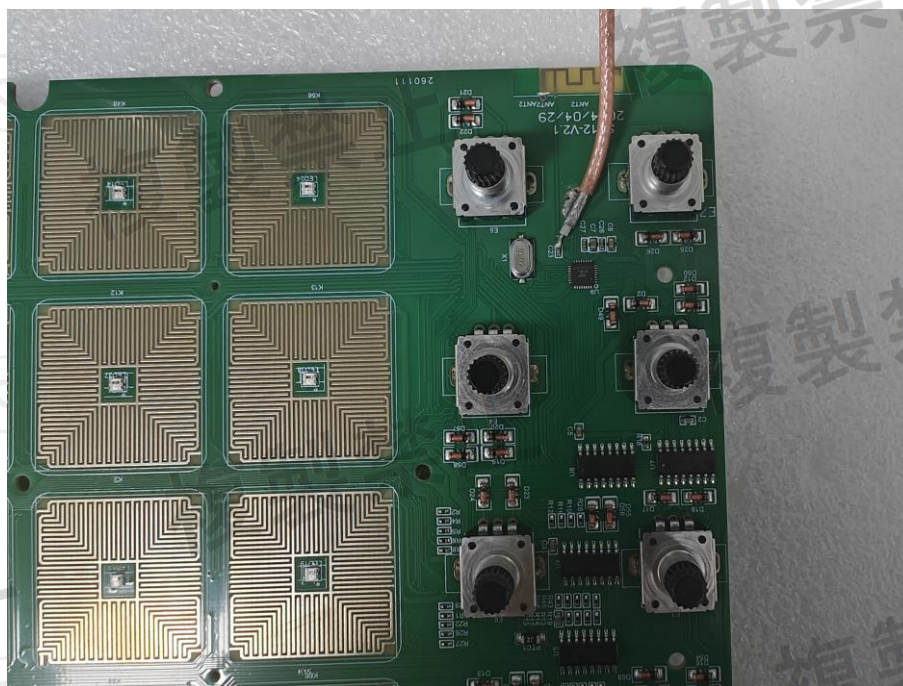
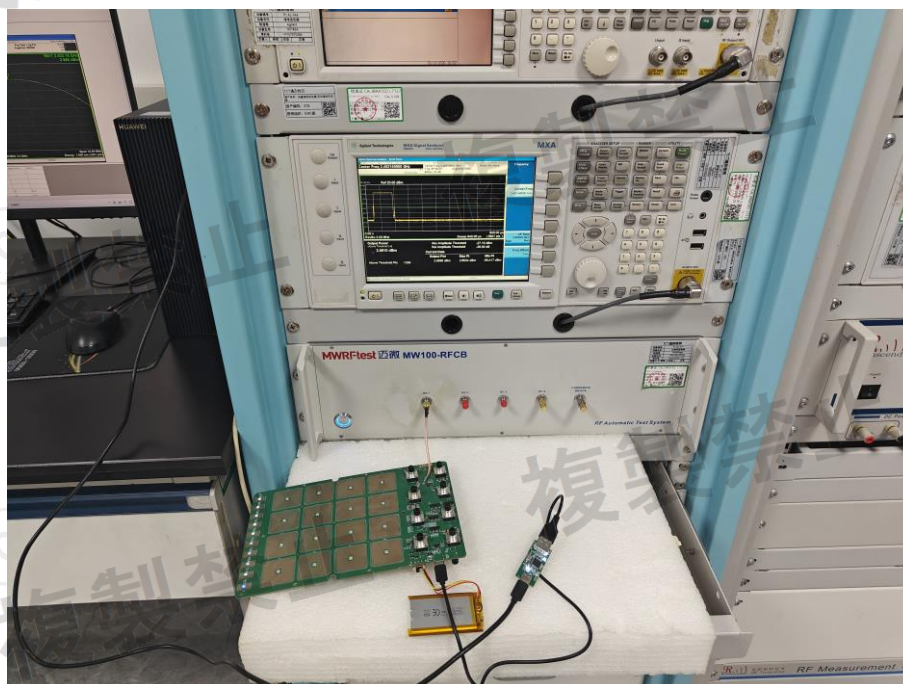
2496.5 MHz – 13000 MHz

6.6. Interference suppression function

6.6.1. Test Specification

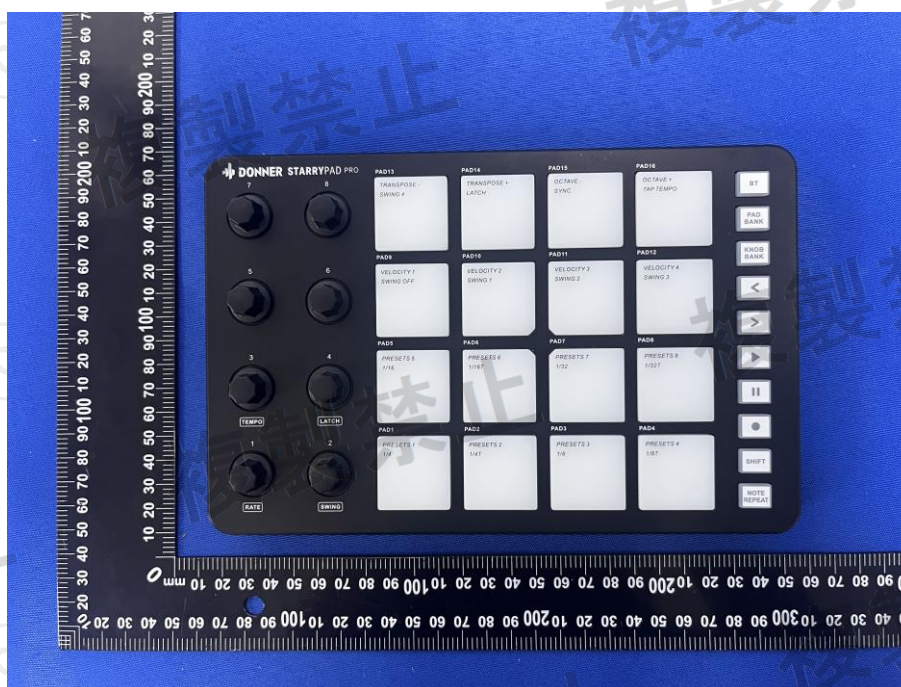
Test Requirement:	Article 2 paragraph 1 item 19
Test Method:	Appendix No.43 Notification No.88 of MIC, 2004 section 10
Operation Mode:	Usual operation condition.
Test setup:	(1) Transmission of identification code  <pre> graph LR A[Radio equipment] --- B[Dummy load (Attenuator)] B --- C[Demodulator] </pre> (2) Reception of identification code  <pre> graph LR A[Opposite Equipment] --- B[Dummy load (Attenuator)] B --- C[Radio equipment] </pre>
Test Procedure:	- The radio equipment with automatic transmitting function of identification code - Transmit the assigned identification code from the radio equipment. - Confirm the identification code received by the demodulator. - The radio equipment with automatic receiving function of identification code - Transmit the assigned identification code from the opposite equipment. - Confirm that the usual communication is available. - Transmit the identification code distinct from the assigned one from the opposite equipment. - Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
Test results:	GOOD, The device has the function of automatic transmission and reception of identification sign. The MAC address is E6:21:6B:37:D6:BF.

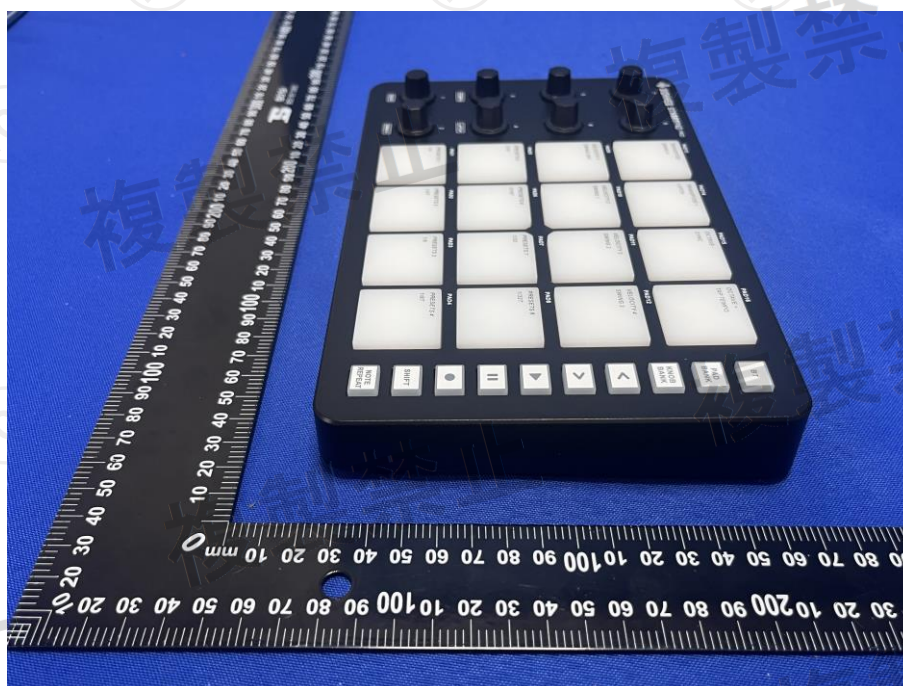
7. Photographs of Test Configuration

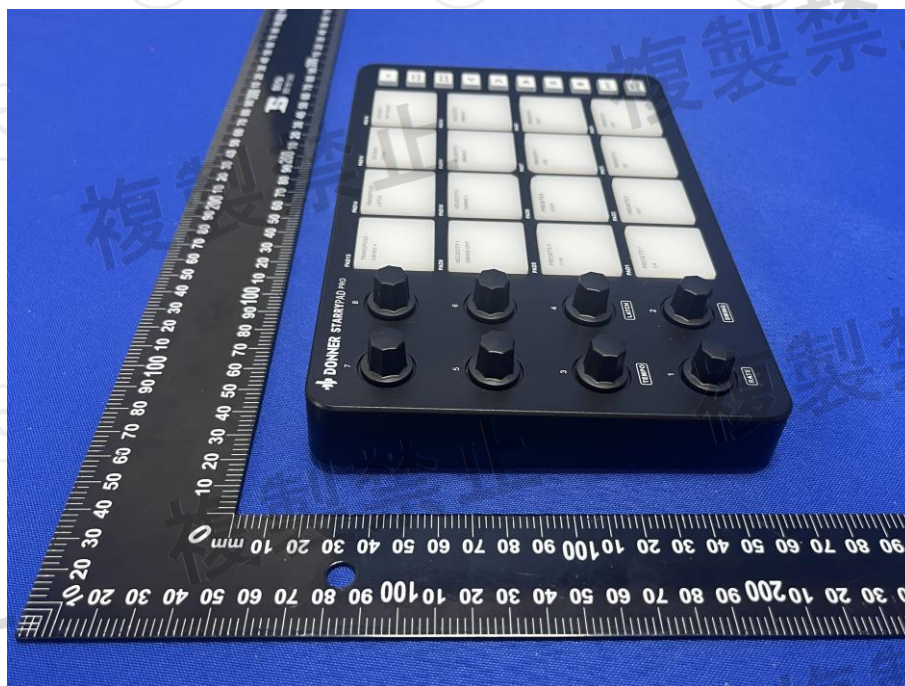


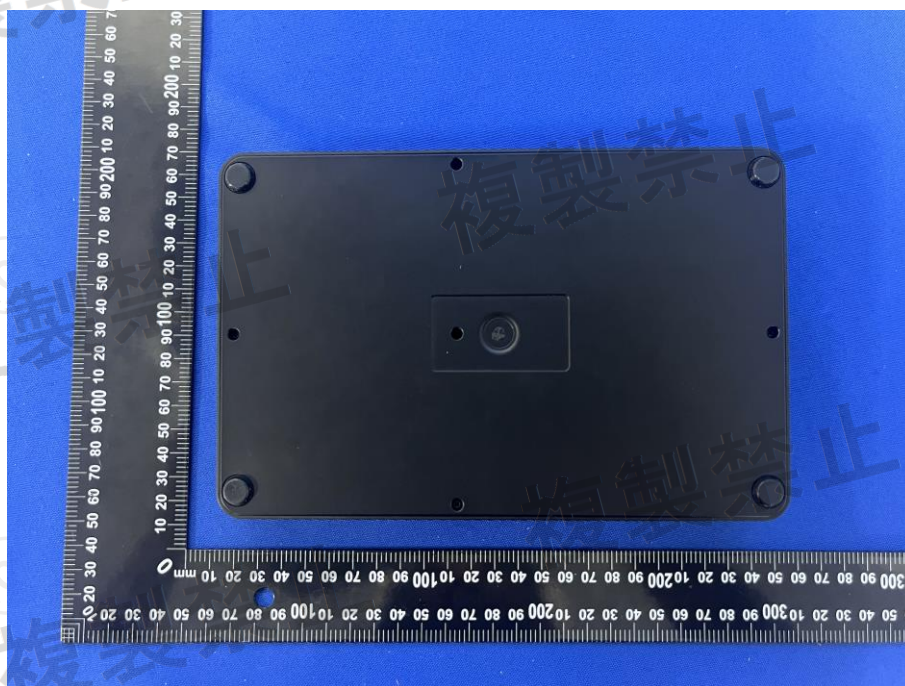
8. Photographs of EUT

Outside View

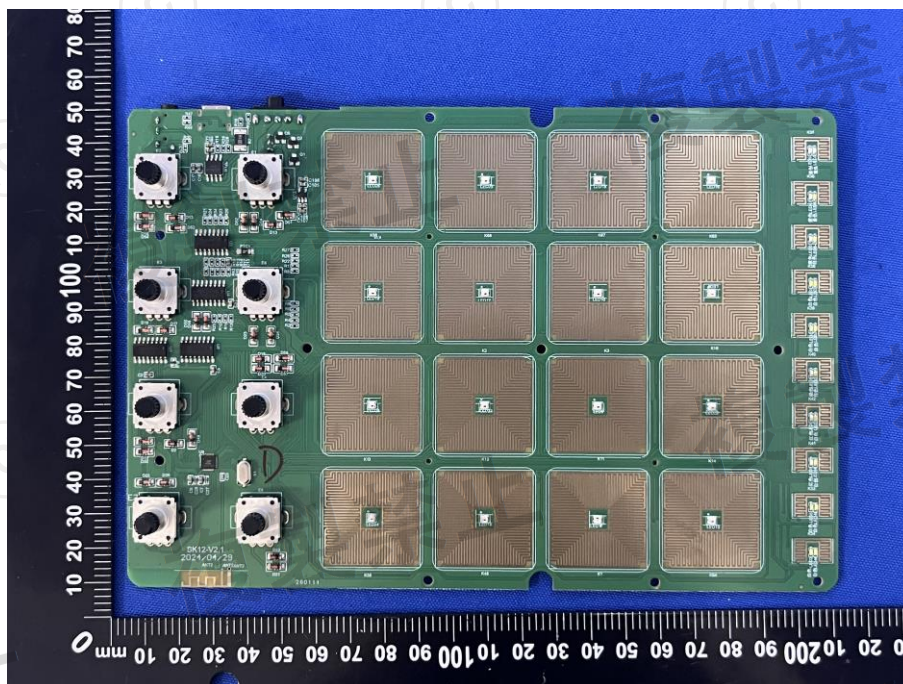
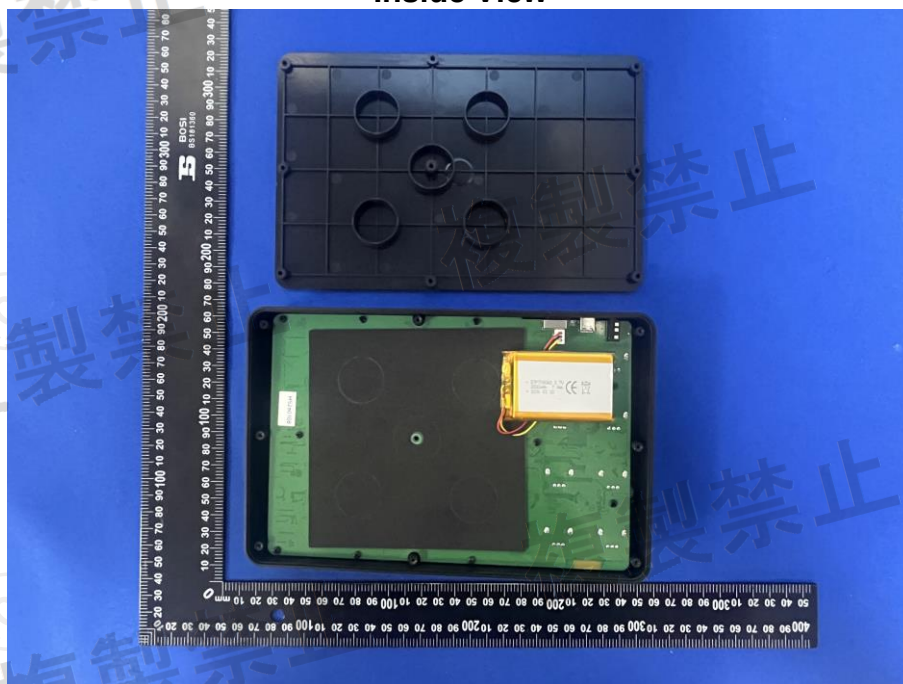


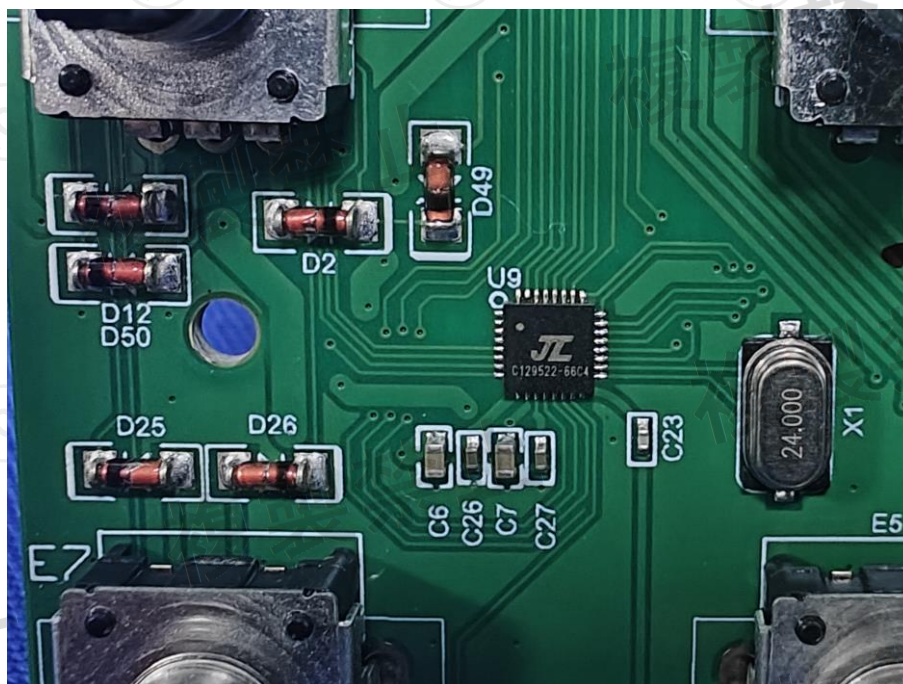
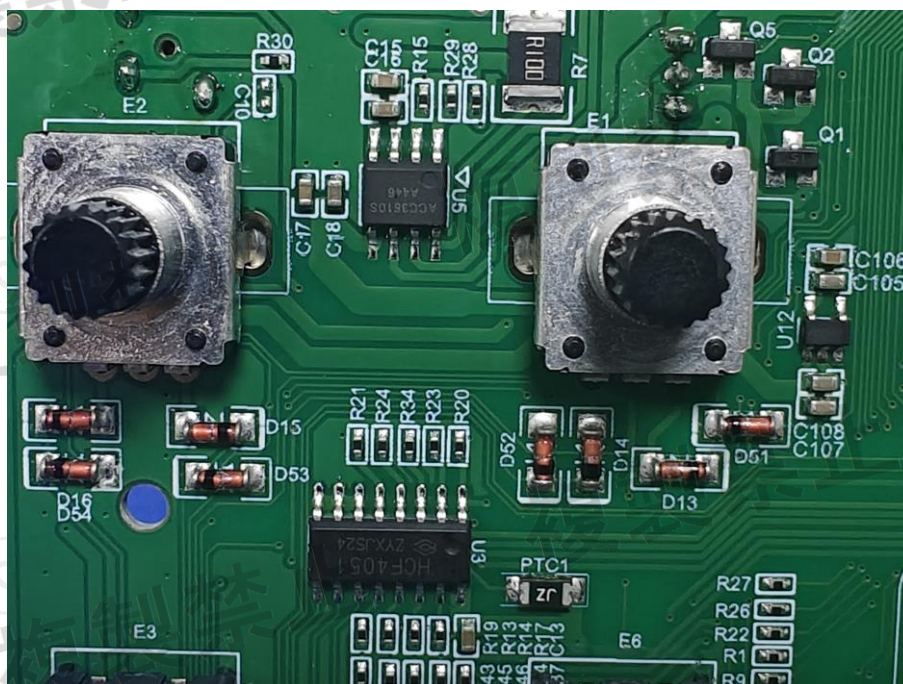


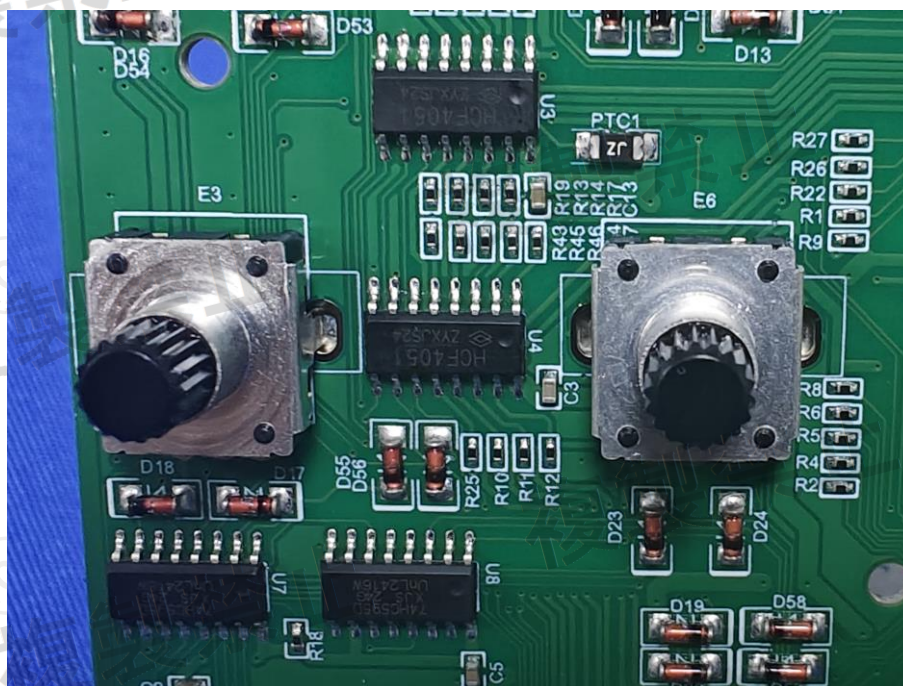


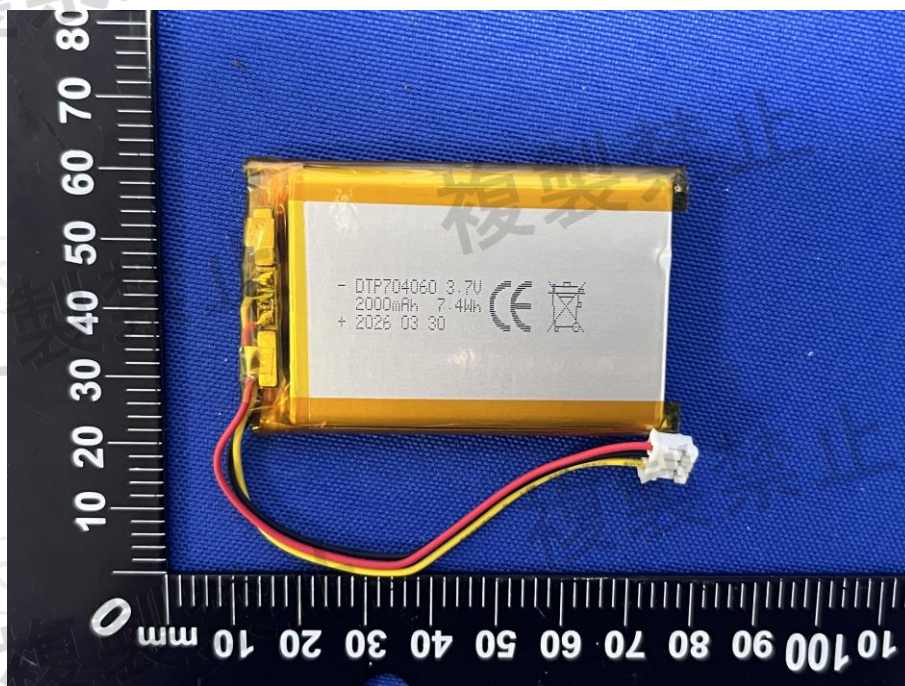


Inside View









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