



MIC public notice 88 TEST REPORT

On Behalf of

HUIZHOU DOUBLE ACOUSTICS CO., LTD

Pickup

Model No.: X2, G0 Pro, X3, X4

Prepared for : HUIZHOU DOUBLE ACOUSTICS CO., LTD
Address : 16F, 2#Bd, Xunyang Hi-tech Park, Jiangjun Road, Qiuchang,
Huiyang, Guangdong, China

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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TEST REPORT DECLARATION

Applicant : HUIZHOU DOUBLE ACOUSTICS CO., LTD
Address : 16F, 2#Bd, Xunyang Hi-tech Park, Jiangjun Road, Qiuchang, Huiyang, Guangdong, China
Manufacturer : HUIZHOU DOUBLE ACOUSTICS CO., LTD
Address : 16F, 2#Bd, Xunyang Hi-tech Park, Jiangjun Road, Qiuchang, Huiyang, Guangdong, China
EUT Description : Pickup
(A) Model No. : X2, G0 Pro, X3, X4
(B) Trademark : DOUBLE

Measurement Standard Used:

MIC public notice 88:2004, Article 2 Paragraph 1 of Item 8

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the MIC public notice 88:2004 limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Jensen Wang
Test Engineer

Jensen Wang

Approved by (name + signature).....:

Simple Guan
Project Manager

Simple Guan

Date of issue.....

May 25, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	May 25, 2026	Initial released Issue	Jensen Wang

1. General Information

1.1. Description of Device (EUT)

EUT	:	Pickup
Trademark	:	DOUBLE
Model No.	:	X2, G0 Pro, X3, X4
DIFF	:	There is no difference between the except for different names of sales regions. So all the test were performed on the model X2
Radio Microphone	:	
Operation frequency	:	806.5MHz-809.5MHz
Modulation	:	FM
Antenna Type	:	External antenna, Maximum Gain is 0.17dBi.
Rated power	:	2mW
Hardware version	:	V1.0
Software version	:	V1.0
Power supply	:	DC 5V from Type C or DC 3.7V by battery
Note	:	Antenna information is provided by applicant.
Warning	:	Operation of this equipment in a residential environment could cause radio interference.

1.2. Accessories of Device (EUT)

Accessories 1	:	N/A
Manufacturer	:	N/A
Model	:	N/A
Ratings	:	N/A

1.3. Ancillary Equipment Details

No.	Description	Manufacturer	Model	Serial Number
/	/	/	/	/

1.4. Test Lab Information

Shenzhen PSI Testing Co., Ltd.
1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District,
Shenzhen, Guangdong, China

2. Summary of test

2.1. Summary of test result

CLAUSE (ARIB STD-T15)	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (1)	Antenna Power	PASS
3.2 (2)	Tolerances of Antenna Power	PASS
3.2 (3)	Tolerance of Frequency	PASS
3.2 (6)	Adjacent Channel Leakage Power	PASS
3.2 (7)	Occupied Frequency Bandwidth	PASS
3.2 (8)	Spurious Emissions	PASS
Note: 1 N/A is an abbreviation for Not Applicable. 2 The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The full charged battery be used during Test)		

2.2. Block Diagram

EUT

2.3. Test mode

For All Channels:

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	806.5MHz	/	/	/	/
2	808.0MHz	/	/	/	/
3	809.5MHz	/	/	/	/

For Test channel

Mode	Channel	Frequency (MHz)
FM	Low :CH1	806.5
	Middle: CH2	808.0
	High: CH3	809.5
Note: 1 According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test. 2 Antenna Connector Impedance: 50Ω, Cable Loss: 1.0 dB		

2.4. Test Conditions

Temperature range	15-35°C
Humidity range	45-85%
Pressure range	86-106kPa

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Bandwidth	±0.2ppm	/
Antenna Power	±0.33dB	/
Frequency Tolerance	±0.5ppm	/
Conducted spurious emission	±0.13dB	/
Audio Signal Strength	±0.5dB	/
Audio Frequency Deviation	3%	/

2.6. Test Voltage

Voltage mode	Input Voltage	Radio Unit Voltage
Charger	DC 4.5V	DC 3.3V
	DC 5V	DC 3.3V
	DC 5.5V	DC 3.3V
	DC 3.33V	DC 3.3V
	DC 3.7V	DC 3.3V
	DC 4.07V	DC 3.3V
Note: 1 The radio unit Voltage with the IC regulator. 2 The radio unit less than 1%, so the test only rated voltage (Normal voltage DC 3.7V) with the battery.		

3. Antenna Power

3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by Guangzhou LiSai Metrology&Test Co., Ltd..						

3.2. Limit

Item	Limit
Antenna Power Density	$\leq 10\text{mW}$
Power Error	+50%, -50%

3.3. Block diagram of test setup



3.4. Test Procedure

- (1) Configure EUT and assistant system according clause 3.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1MHz

Video BW: 3MHz

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

Trace Mode: Max Hold.

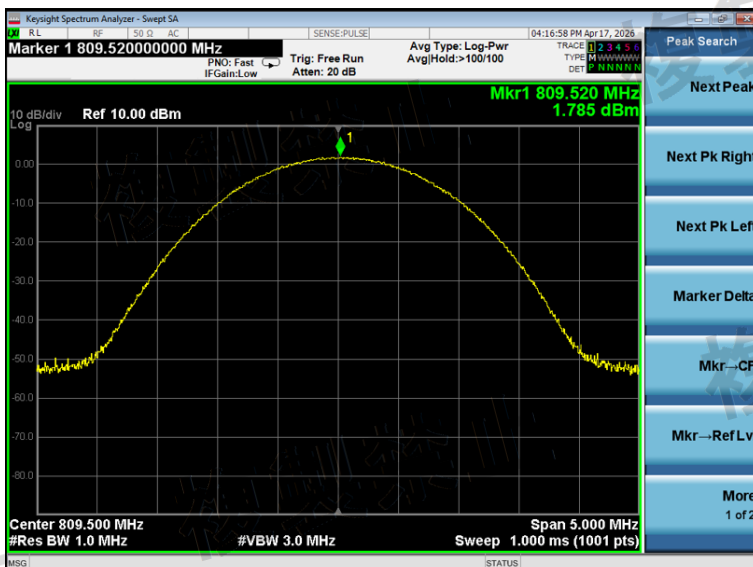
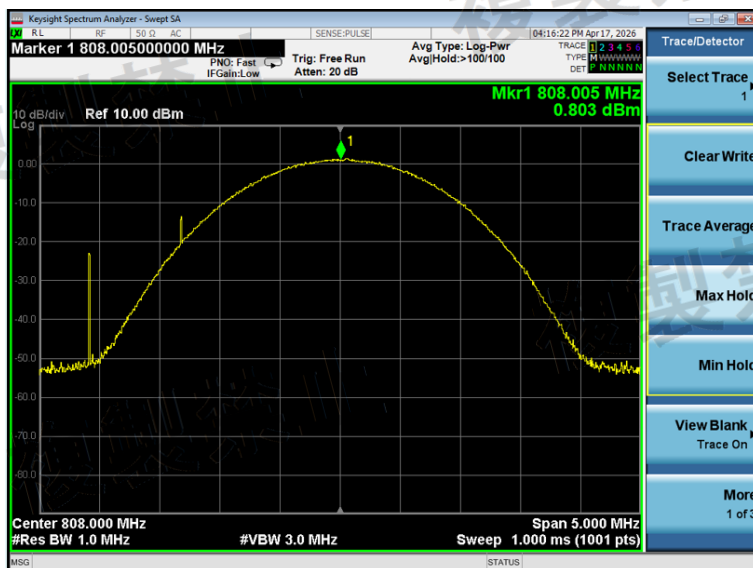
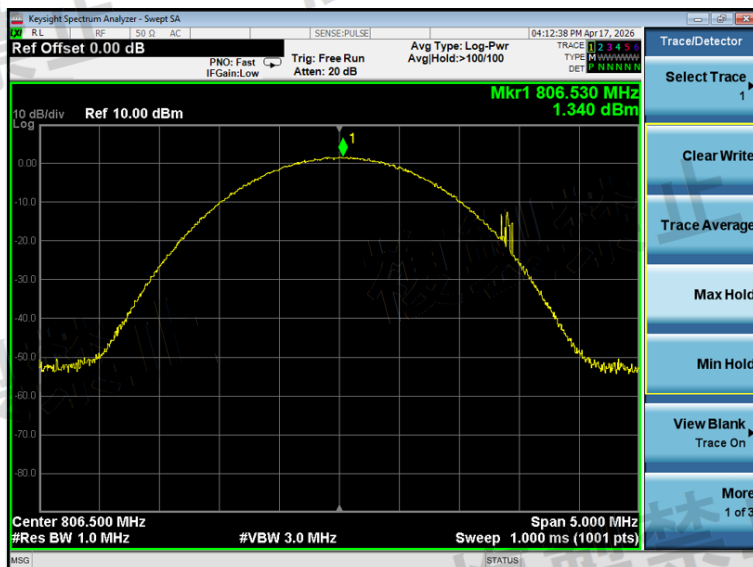
- (4) When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

3.5. Test result

Mode	Condition	CH	Test Result	Result	Limit
			(dBm)	(mW)	(mW)
FM	DC 3.7V	CH1	1.340	1.36	10
		CH2	0.803	1.20	10
		CH3	1.785	1.51	10

Mode	CH	Stated power	Result	Tolerance	Limit
		(mW)	(mW)	/	/
FM	CH1	2	1.36	-32.00%	+50%, -50%
	CH2	2	1.20	-40.00%	
	CH3	2	1.51	-24.50%	
Conclusion: PASS					

Original test data :



4. Frequency Tolerance

4.1. Test Equipment

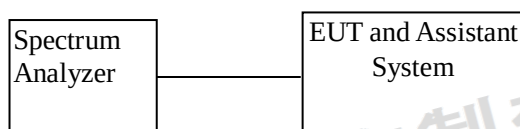
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year

Note: The test equipment is calibrated by Guangzhou LiSai Metrology&Test Co., Ltd..

4.2. Limit

+/- 20x 10⁻⁶ (±20ppm)

4.3. Block diagram of test setup



4.4. Test Procedure

- (1) Configure EUT and assistant system according clause 4.3
- (2) Set EUT work in Tx mode as described in clause 2.3
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 3 KHz.

Video BW: 10 KHz.

Span: 300kHz.

Detector: Peak.

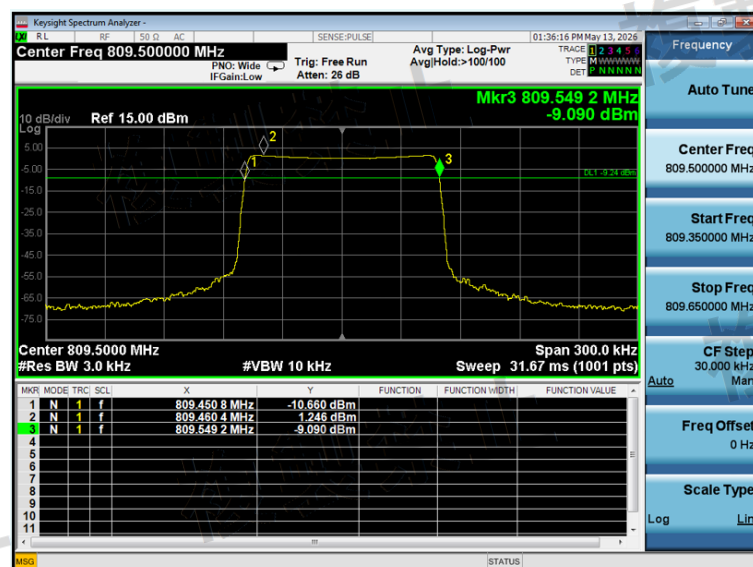
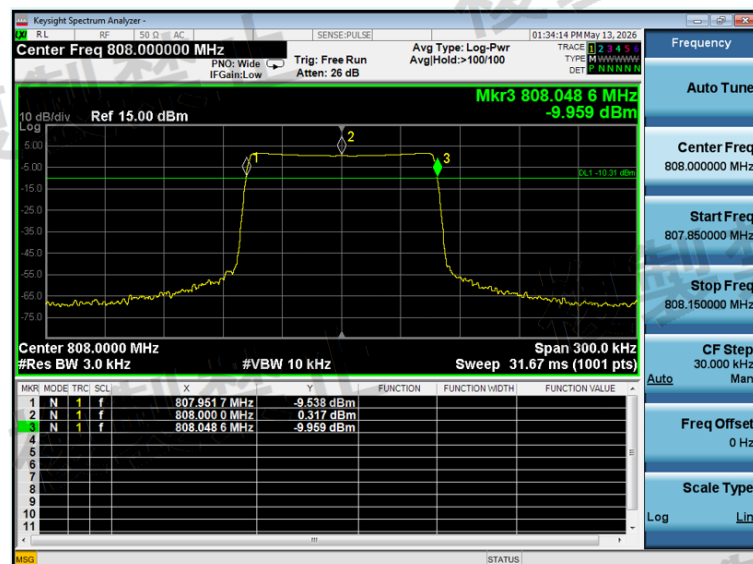
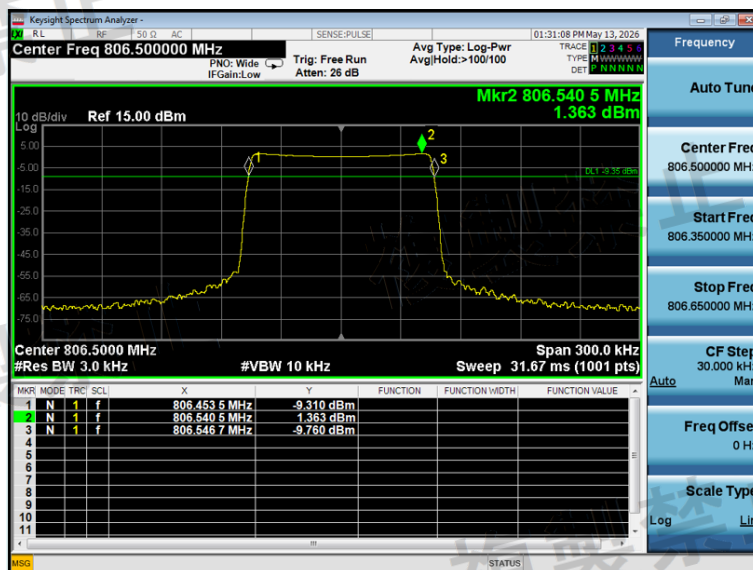
Trace Mode: Max Hold.

- (4)When the trace is complete, find the peak value of the power envelope and record the frequency.

4.5. Test result

Mode	CH	Measured	Tolerance	Result	Limit
		MHz	MHz	ppm	ppm
Test Voltage: DC 3.7V by battery					
Test mode: Tx Mode					
FM	CH1:806.5MHz	806.50010	0.00010	0.124	±20
	CH2:808.0MHz	808.00015	0.00015	0.186	
	CH3:809.5MHz	809.50000	0.0000	0.000	
Conclusion: PASS					

Original test data :



5. Occupied Frequency Bandwidth

5.1. Test Equipment

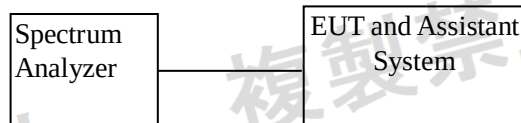
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year

Note: The test equipment is calibrated by Guangzhou LiSai Metrology&Test Co., Ltd..

5.2. Limit

Item	Limits
Occupied Band Width	$\leq 110\text{kHz}$

5.3. Block diagram of test setup



5.4. Test Procedure

- (1) Configure EUT and assistant system according clause 5.3
- (2) Set EUT work in test mode as described in clause 2.3
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The center frequency of the channel under test.

Resolution BW: 3 KHz

Video BW: 10 KHz

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

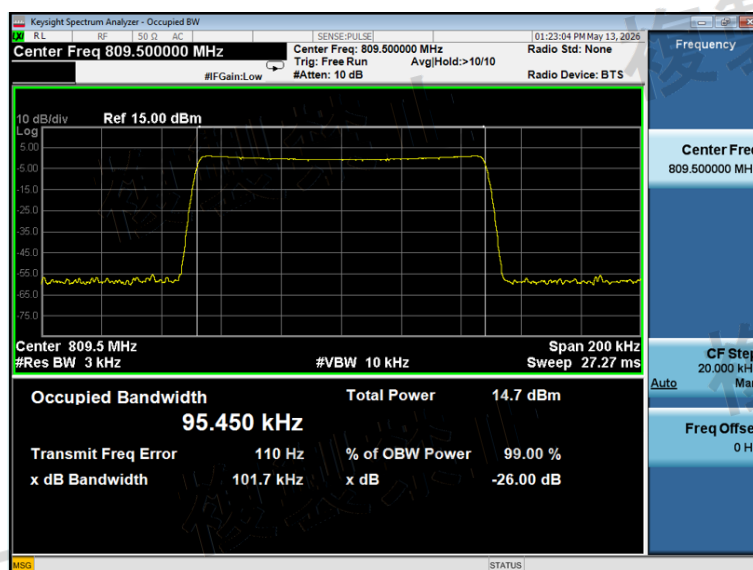
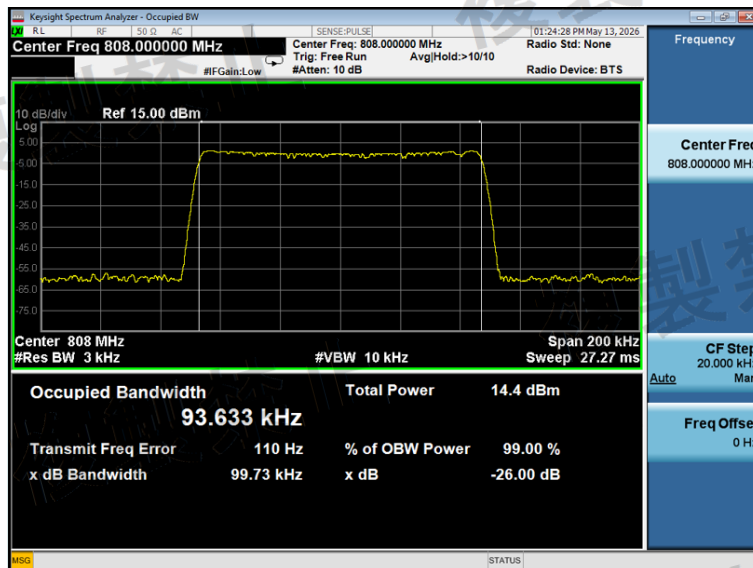
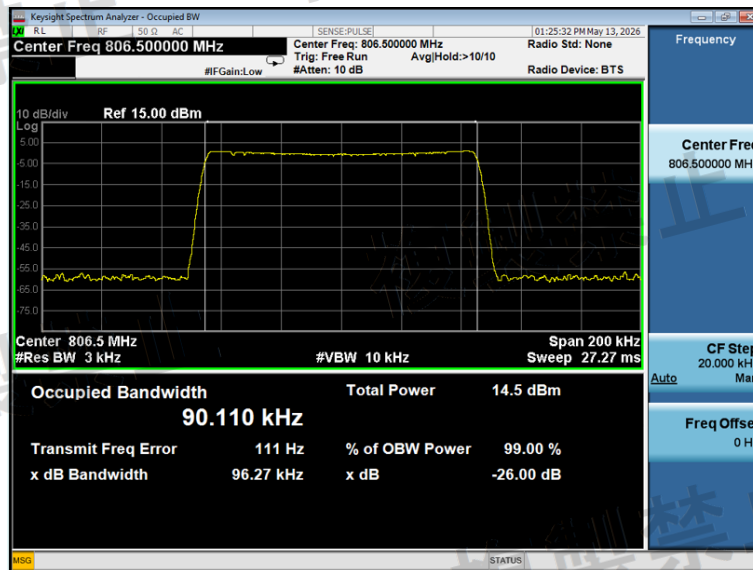
Trace Mode: Max Hold.

- (4) When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

5.5. Test result

Mode	Condition	CH	Result	Limit
			(KHz)	(KHz)
FM	DC 3.7V	CH1	90.110	110
		CH2	93.633	
		CH3	95.450	
Conclusion: PASS				

Original test data :



6. Transmitter Spurious Emissions (conducted)

6.1. Test Equipment

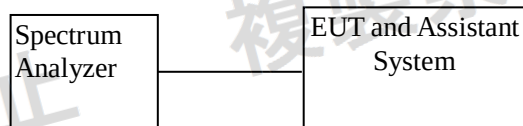
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year

Note: The test equipment is calibrated by Guangzhou LiSai Metrology&Test Co., Ltd..

6.2. Limit

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}$ ($f \leq 806\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($809.750\text{MHz} < f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($1000\text{MHz} < f \leq 12750\text{MHz}$)

6.3. Block diagram of test setup



6.4. Test Procedure

- (1) Configure EUT and assistant system according clause 6.3
- (2) Set EUT work in test mode as described in clause 2.3
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 Below 1GHz: Resolution BW: 100KHz.
 Video BW: 100KHz.
 Detector: Peak.
 Trace Mode: Max Hold.
 Above 1GHz: Resolution BW: 1MHz.
 Video BW: 1MHz.
 Detector: Peak.
 Trace Mode: Max Hold.
- (4) All the emissions from 30MHz to 12.75GHz were measured and record.

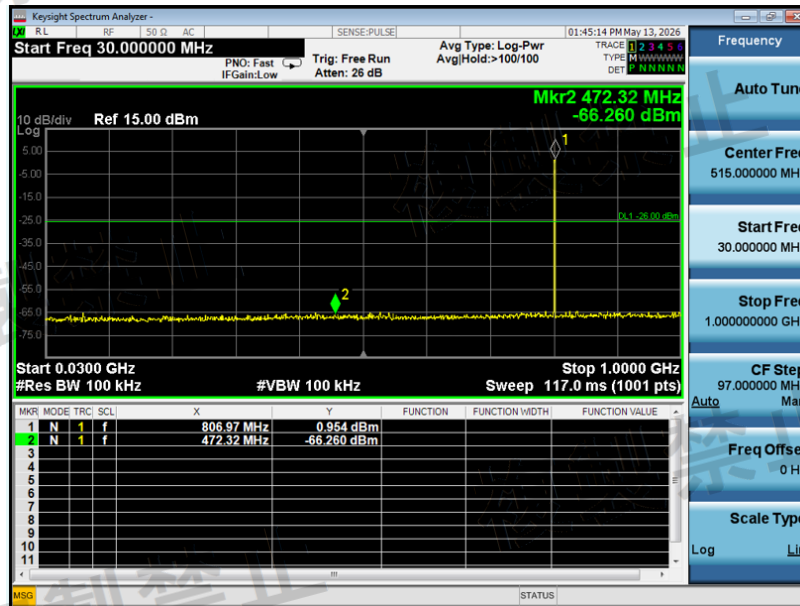
6.5. Test result

Mode	Condition	CH	Frequency range (MHz)	Result (dBm)	Limit (dBm)	Limit (μW)
FM	DC 3.7V	CH1	30-1000	-66.26	-26	2.5
			1000-12750	-45.68	-26	2.5
		CH2	30-1000	-66.59	-26	2.5
			1000-12750	-46.20	-26	2.5
		CH3	30-1000	-65.72	-26	2.5
			1000-12750	-44.55	-26	2.5
Conclusion: PASS						
Note: See below original test data.						

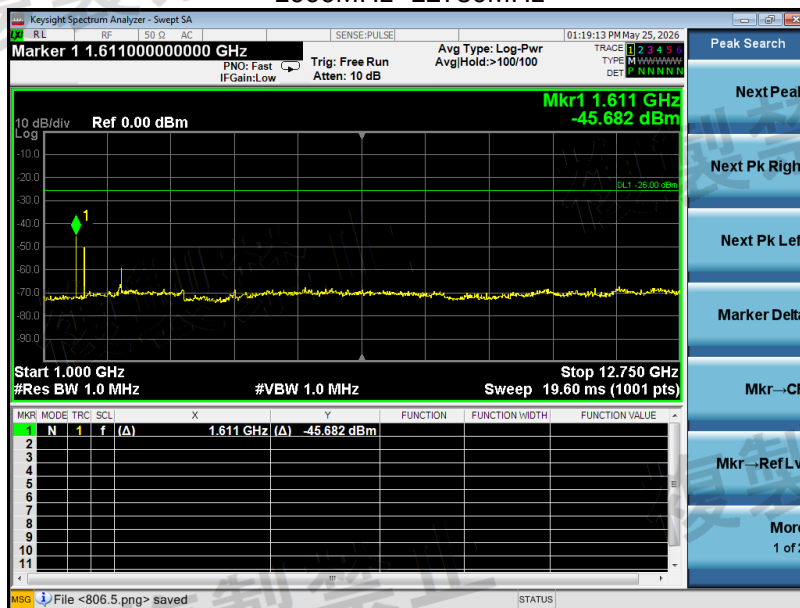
Original test data

CH1

30MHz~1000MHz

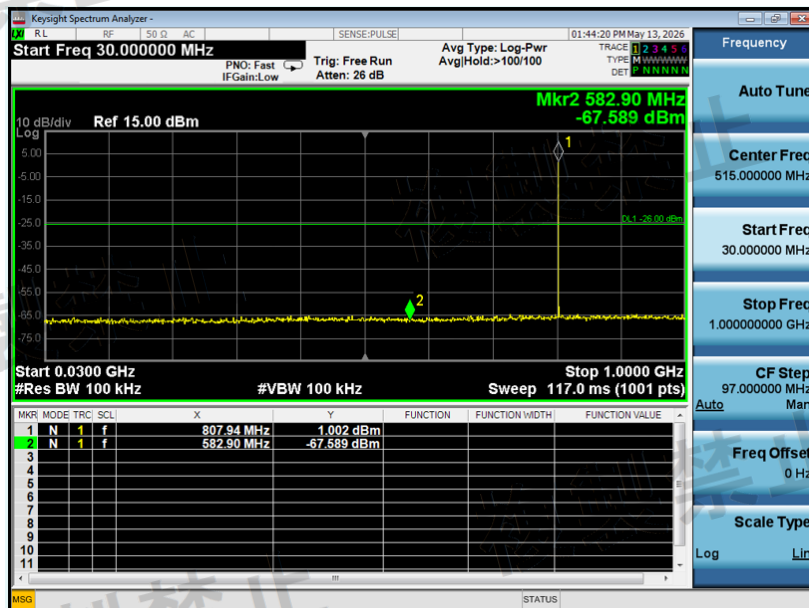


1000MHz~12750MHz

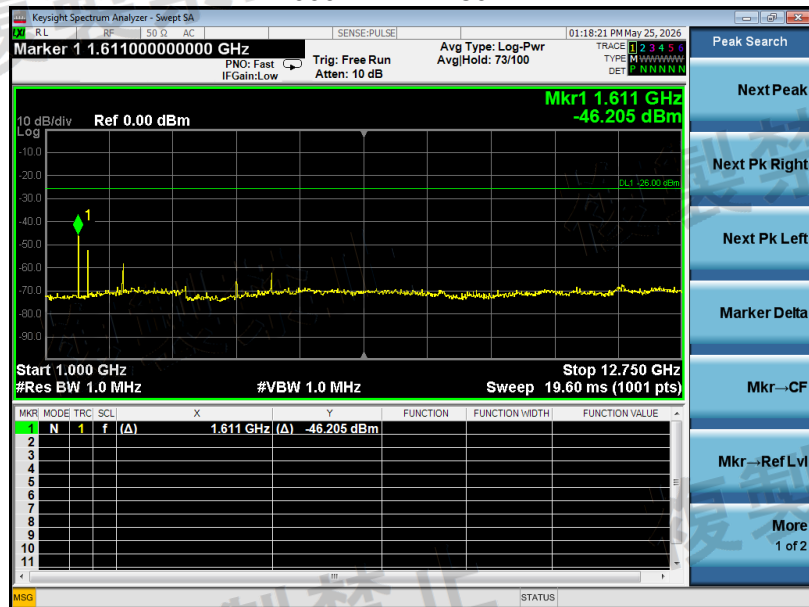


CH2

30MHz~1000MHz

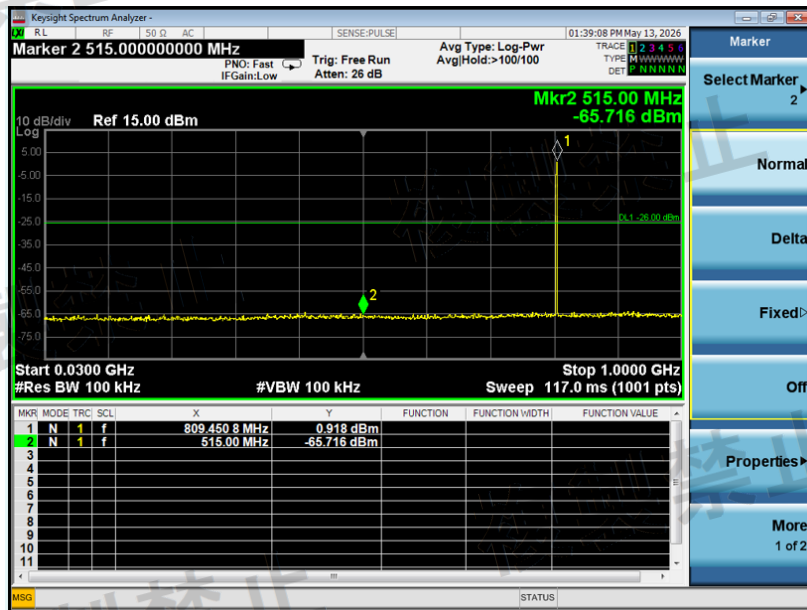


1000MHz~12750MHz

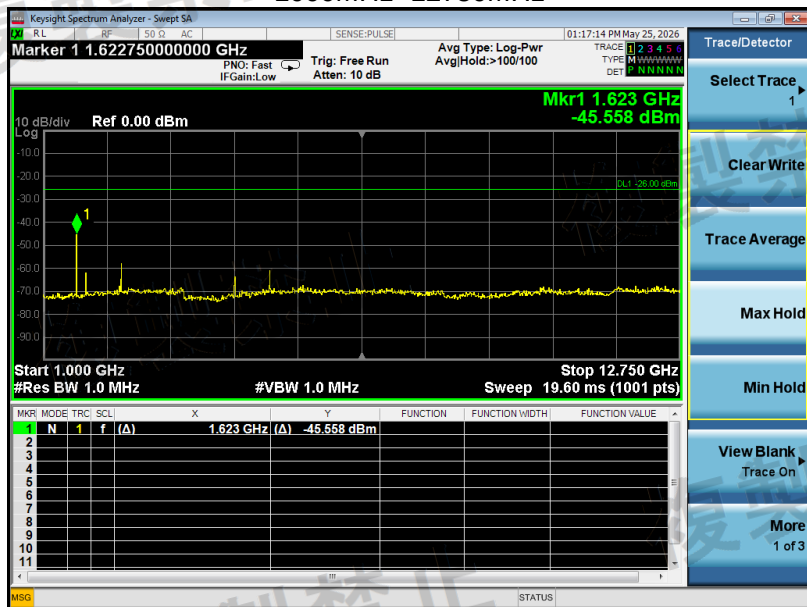


CH3

30MHz~1000MHz



1000MHz~12750MHz



7. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by Guangzhou LiSai Metrology&Test Co., Ltd..						

7.2. Limit

Item	Limits
RX Spurious Emission	≤4nW (f<1GHz)
	≤4nW (1GHz ≤f)

7.3. Block diagram of test setup



7.4. Test Procedure

- (1) Configure EUT and assistant system according clause 6.3
- (2) Set EUT work in test mode as described in clause 2.3
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 - Below 1GHz: Resolution BW: 100KHz.
 - Video BW: 100KHz.
 - Detector: Peak.
 - Trace Mode: Max Hold.
 - Above 1GHz: Resolution BW: 1MHz.
 - Video BW: 1MHz.
 - Detector: Peak.
 - Trace Mode: Max Hold.
- (4)All the emissions from 30MHz to 12.75GHz were measured and record.

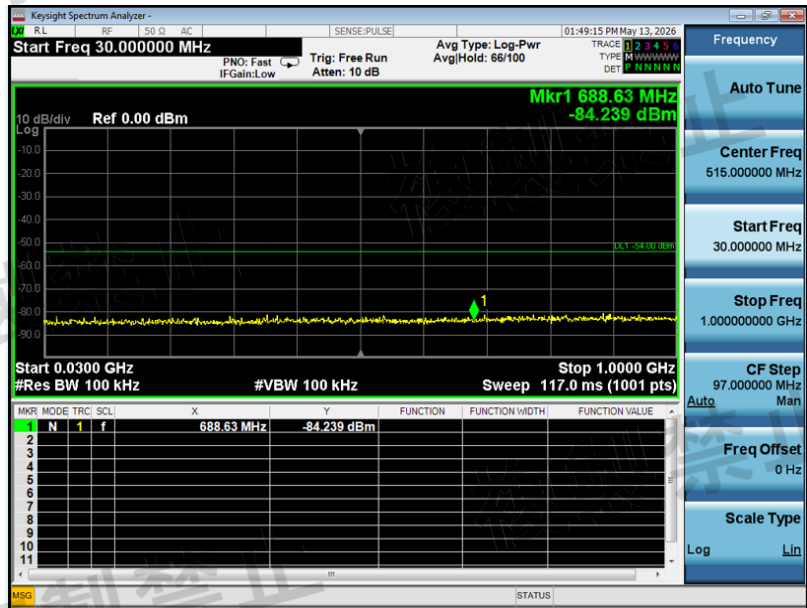
7.5. Test result

Mode	Condition	CH	Frequency range (MHz)	Result (dBm)	Limit (dBm)	Limit (nW)
FM	DC 3.7V	CH1	30-1000	-84.24	-54	4
			1000-12750	-69.42	-54	4
		CH2	30-1000	-82.08	-54	4
			1000-12750	-68.81	-54	4
		CH3	30-1000	-81.07	-54	4
			1000-12750	-70.65	-54	4
Conclusion: PASS						
Note: See below original test data.						

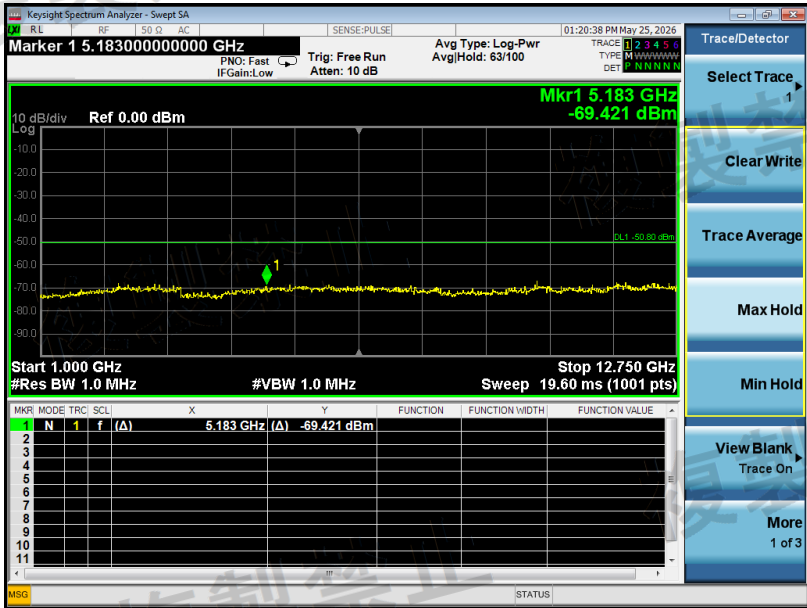
Original test data

CH1

30MHz~1000MHz

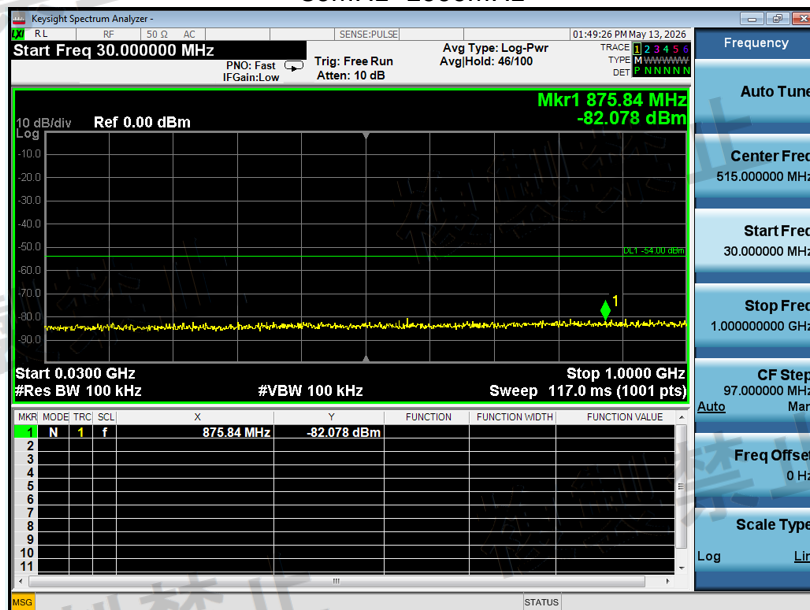


1000MHz~12750MHz

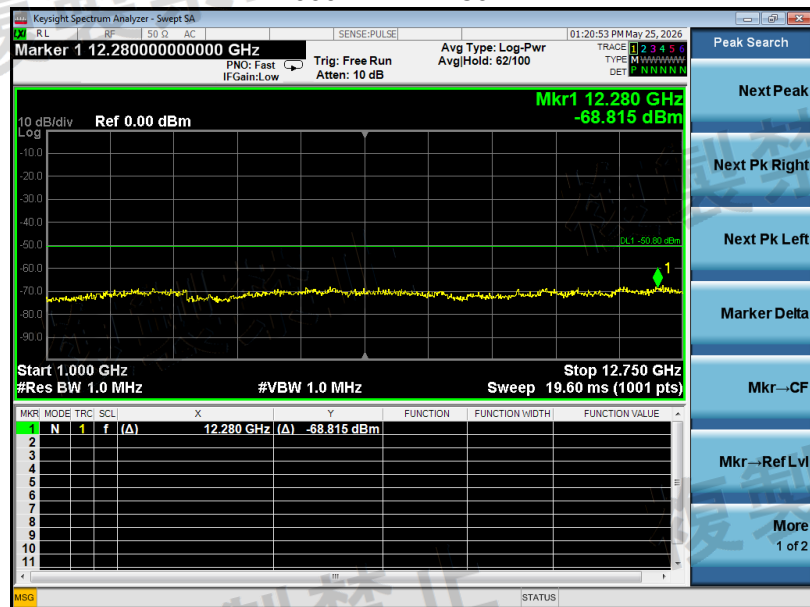


CH2

30MHz~1000MHz

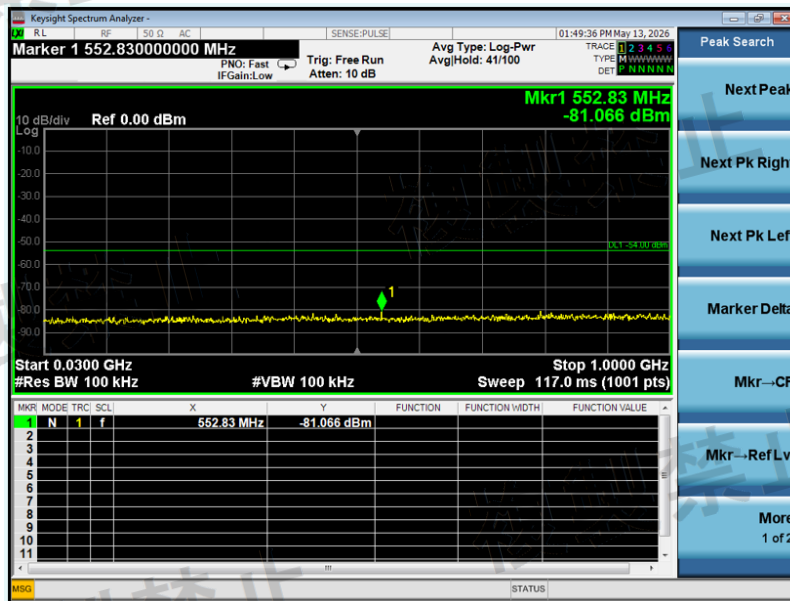


1000MHz~12750MHz

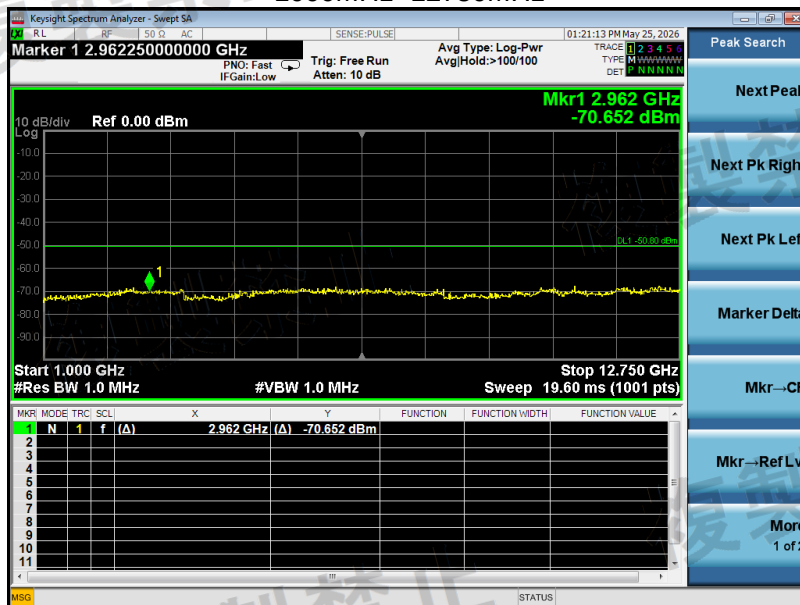


CH3

30MHz~1000MHz



1000MHz~12750MHz



8. Adjacent Channel Leakage Power

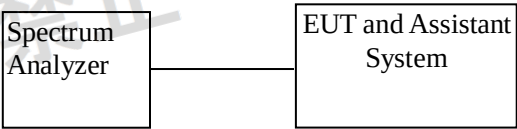
8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by Guangzhou LiSai Metrology&Test Co., Ltd..						

8.2. Limit

FM (except FSK): -60dBc (±55KHz Band of the frequency whicj separated 250KHz from Cf)
FSK, PM, QAM: -40dBc (±96KHz Band of the frequency whicj separated 375KHz from Cf)

8.3. Block diagram of test setup

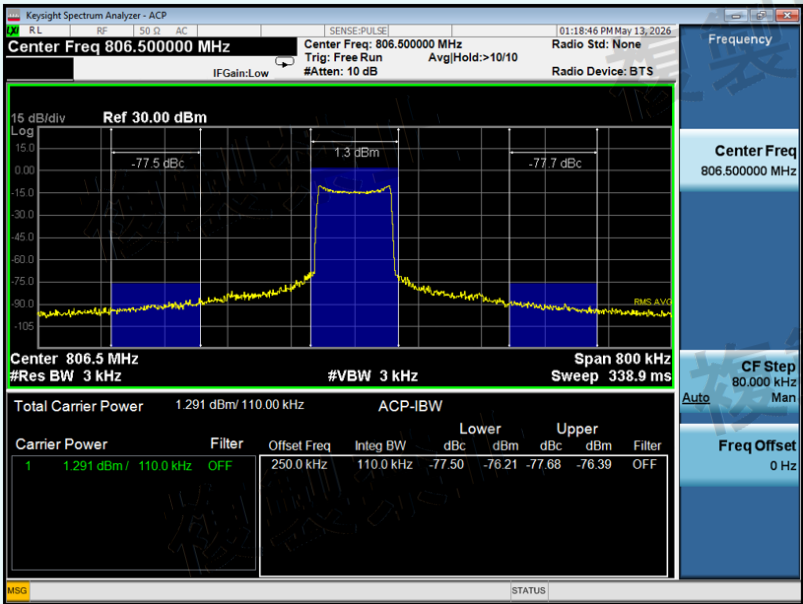


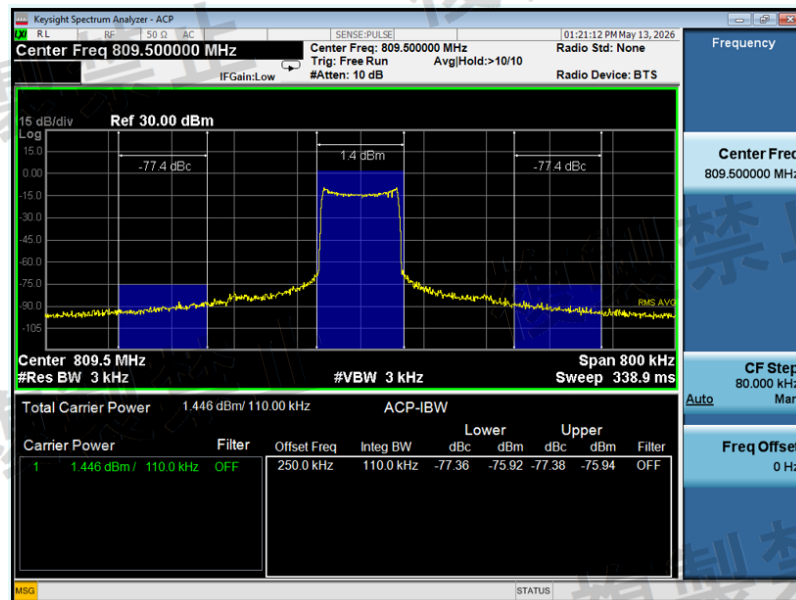
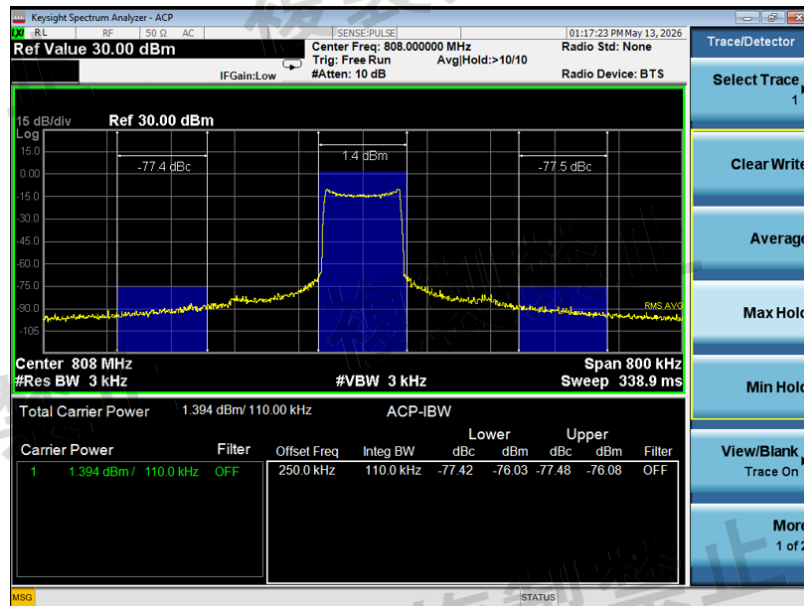
8.4. Test Procedure

The EUT was operated in continuous transmit mode (modulated).
Cable losses and external attenuators were regarded by the use of a transducer factor.

8.5. Test result

PASS. (See below original test data)





9. Test setup photo

Reference to the **appendix I Test Setup Photo** for details.

10. Test setup photo

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

-----END OF REPORT-----