Test Report

Date : 2025-12-10
No. : DM25110085

Applicant : Mirai Speaker Inc.
8F, Cross-C Higashi nihonbashi Bldg., 2-22-1, Higashi-nihonbashi
Chuo-ku, Tokyo, Japan

Supplier / Manufacturer : Ocean Star Electronics Ltd.
Unit 2, 16/F Fo Tan Industrial Centre, 26-28 Au Pui Wan Street, Fo Tan, Hong Kong

Description of Sample(s) : Submitted sample(s) said to be

Product:	Carry by MIRAI SPEAKER(Speaker)
Brand Name:	MIRAI SPEAKER
Model No.:	SF-MIRAIS9

Date Samples Received : 2025-11-18

Date Tested : 2025-11-18 to 2025-11-25

Statement : The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in Item 19 of Article 2 Paragraph 1, MIC Notice No.88 Appendix No.43. The test equipment used to perform the test is calibrated and traceable to International system of units (SI) or other recognized National metrology institute.

Remarks : 2.4G Wireless FHSS (GFSK)

Test by Susu

LONG Yun Jian, Along
Authorized Signatory

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1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Submitted sample(s) said to be

Product:	Carry by MIRAI SPEAKER(Speaker)
Manufacturer:	Ocean Star Electronics Ltd. Unit 2, 16/F Fo Tan Industrial Centre, 26-28 Au Pui Wan Street, Fo Tan, Hong Kong
Brand Name:	MIRAI SPEAKER
Model Number:	SF-MIRAIS9
Rating:	Battery: DC 3.7V 5000mAh 18.5Wh Input: DC5V 2A by type C port The AC/DC adaptor was provided by the applicant with following details: Brand name: N/A, Model no.: SG-0502000AP, Input: 100-240Va.c. 50-60Hz 0.3A, Output: 5.0Vd.c. 2000mA

1.2 Date of Order

2025-11-18

1.3 Submitted Sample(s):

1 Sample

1.4 Test Duration

2025-11-18 to 2025-11-25

1.5 Country of Origin

China

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1.6 RF Module Details

Frequency Range:	2402-2480MHz		
Channel Number:	79		
Modulation:	GFSK,		
Duty Cycle:	Up to 100%		
ID Code:	6472D8 96A61F		
Operating mode:	Continuous		
Power Source:		Input voltage	RF module voltage
	Voltage (nom):	3.7Vd.c	3.3Vd.c
	Extreme high:	4.2Vd.c	3.3Vd.c
	Extreme low:	3.4Vd.c	3.3Vd.c

Remark:
--

1.7 Antenna Details

Antenna Type: PCB antenna
Antenna Gain: 3.38 dBi

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2.0 Technical Details

2.1 Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency
2400-2483.5MHz	0	2402MHz
	1	2403MHz
	:	:
	38	2440MHz
	39	2441MHz
	40	2442MHz
	:	:
	77	2479MHz
	78	2480MHz

2.2 Test Standards and Results Summary Tables

Applied Standard: Item 19 of Article 2 Paragraph 1				
Clause	Description of Test	Test Result		
		Pass	Fail	N/A
3.2(2)	Antenna Power	☒	☐	☐
3.2(3)	Tolerances for Antenna Power	☒	☐	☐
3.2(4)	Frequency Tolerance	☒	☐	☐
3.2(7)	Occupied Frequency Bandwidth	☒	☐	☐
3.2(8)	Spread Bandwidth	☒	☐	☐
3.2(11)	Dwell Time	☒	☐	☐
3.2(6)	Spurious Emissions	☒	☐	☐
3.3(1)	Secondary Radiated Emissions	☒	☐	☐

Test Items	Uncertainty	Remark
99% & 90% Bandwidth	±0.8 dB	Confidence levels of 95%
Frequency Tolerance	$\pm 8.5 \times 10^{-8}$	Confidence levels of 95%
Antenna Power	±0.6dB	Confidence levels of 95%
TX-RX Spurious Emissions	±0.5dB	Confidence levels of 95%
Temperature	±0.7°C	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC/AC Power Source	±1.4%	Confidence levels of 95%

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2.3 Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst case rate with respect to the specific test item.
Investigation has been done on all the possible configurations for searching the worst cases.

The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Frequency Error	Un-modulation	-	0/39/78
Occupied Bandwidth (99%)	GFSK	-	Hopping 0~78
Spread-Spectrum Bandwidth (90%)	GFSK	-	Hopping 0~78
Unwanted Emission Intensity	GFSK	-	0/39/78
Antenna Power Error	GFSK	-	0/39/78
Limitation of Emission of Receiver	GFSK	-	0/39/78
Radio Interference Prevention Capability	GFSK	-	0/39/78
Hopping Frequency Dwell Time	GFSK	-	Hopping 0~78

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3.0 Test Results

3.1 Antenna Power and Tolerances for Antenna Power

Ambient temperature 25.8°C Relative humidity 55.6%

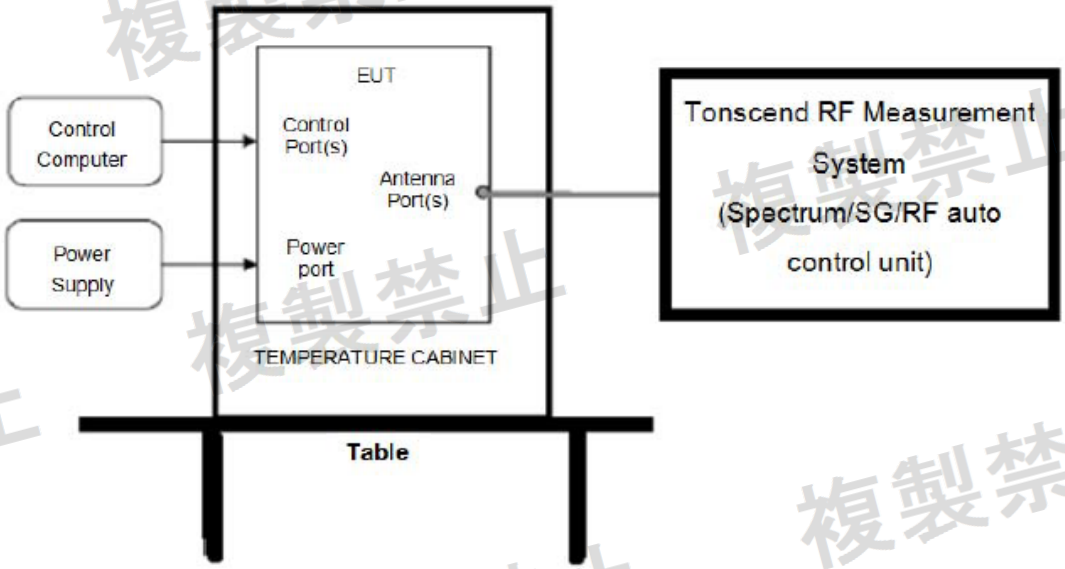
3.1.1 Limit

Item	Limits
Antenna Power Density	≤3mW/MHz (FH from 2400 – 2483.5MHz) ≤10mW/MHz (OFDM, DS from 2400 – 2483.5MHz) ≤10mW (Other from 2400 – 2483.5MHz)
Tolerances for Antenna Power	+20%, -80% (Base on manufacture declare antenna power density)

3.1.2 Test Procedures

(1) Connect each EUT's antenna output to power sensor by RF cable and attenuator.
(2) For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts is captured.
Note: The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

3.1.3 Test Setup



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3.1.4 Test Result: PASS

Antenna power

	Measured		Spread Bandwidth (MHz)	Result (mW/MHz)	Tolerances (%)	Declared power (mW/MHz)	Limit mW/MHz
	dBm	mW					
GFSK	-1.425	0.7202	71.295	0.0101	1.0	0.01	3

	Measured conducted output power (mW/MHz)	Measured		Limit (dBm/MHz)
		conducted output power (dBm/MHz)	EIRP (dBm/MHz)	
GFSK	0.0101	-19.956	-16.576	6.91

EIRP= conducted output power result + Antenna Gain

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3.2 Frequency Tolerance

Ambient temperature 25.8°C Relative humidity 55.6%

3.2.1 Limit

Item	Limits
Frequency Tolerance	+/- $50*10^{-6}$ or less 50ppm

3.2.2 Test Procedures

(1) 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: 10 kHz
Video BW: 10 kHz
Span Frequency: 500KHz
Detector: Peak
Trace Mode: Max Hold
(2) When the trace is complete, find the peak value of the power envelope and record the frequency.

3.2.3 Test Setup

Spectrum Analyzer — Attenuator — EUT and Assistant System

3.2.4 Test Result: PASS

Mode	Frequency (MHz)	Result			Limit (ppm)
		Measured (MHz)	Tolerance (kHz)	Tolerance (ppm)	
TX mode	2402	2402.0376	37.6	15.65362	≤50
	2441	2441.0383	38.3	15.69029	≤50
	2480	2480.0398	39.8	16.04839	≤50

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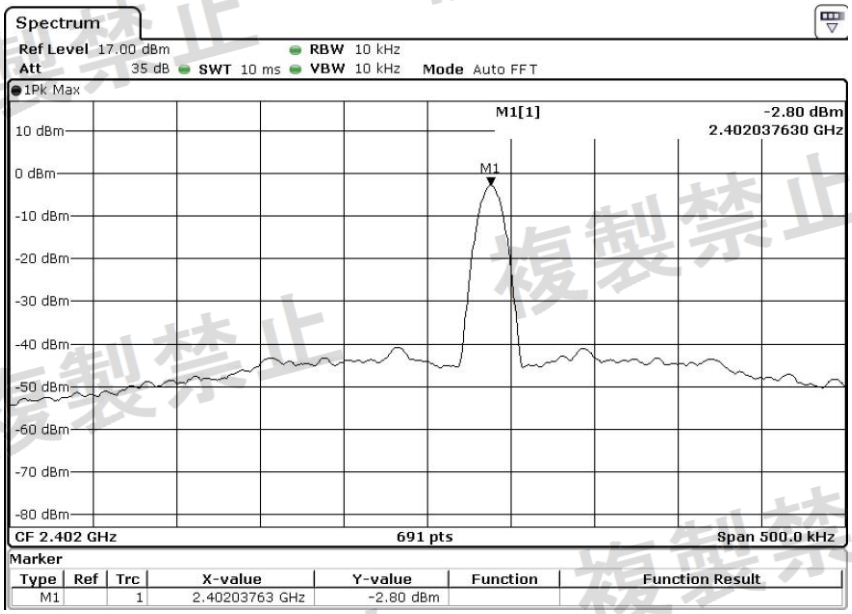
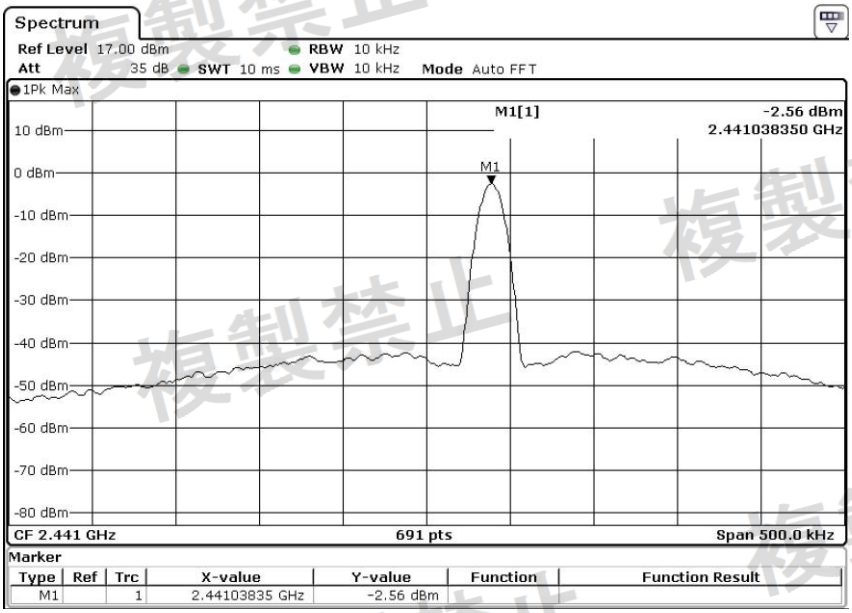
2402MHz



2441MHz



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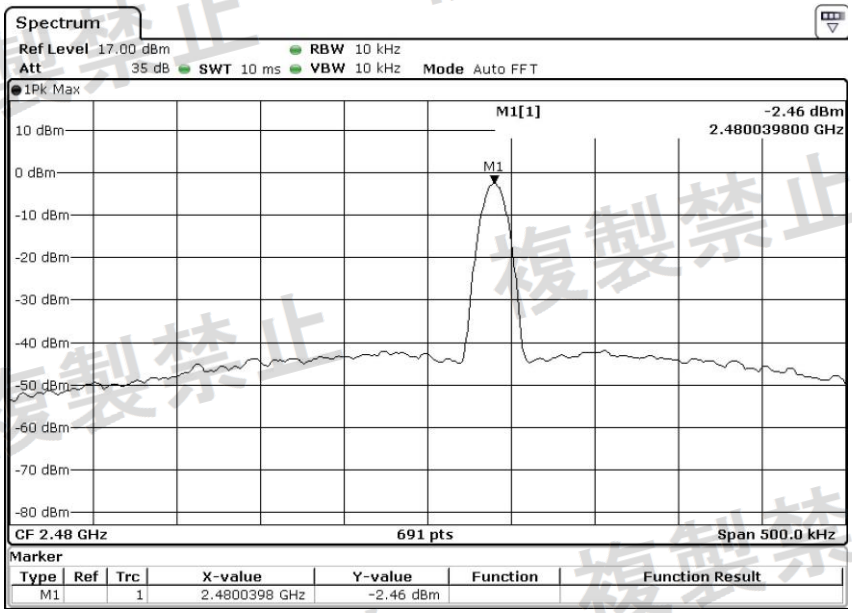
2480MHz



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3.3 Occupied Frequency Bandwidth

Ambient temperature 25.8°C Relative humidity 55.6%

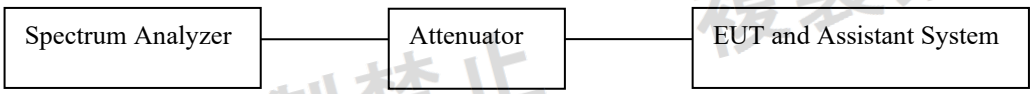
3.3.1 Limit

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.3.2 Test Procedures

(1) 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
Hopping off:
Resolution BW: 30 kHz
Video BW: 30 kHz
Hopping on:
Resolution BW: 1MHz
Video BW: 1MHz
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, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

3.3.3 Test Setup



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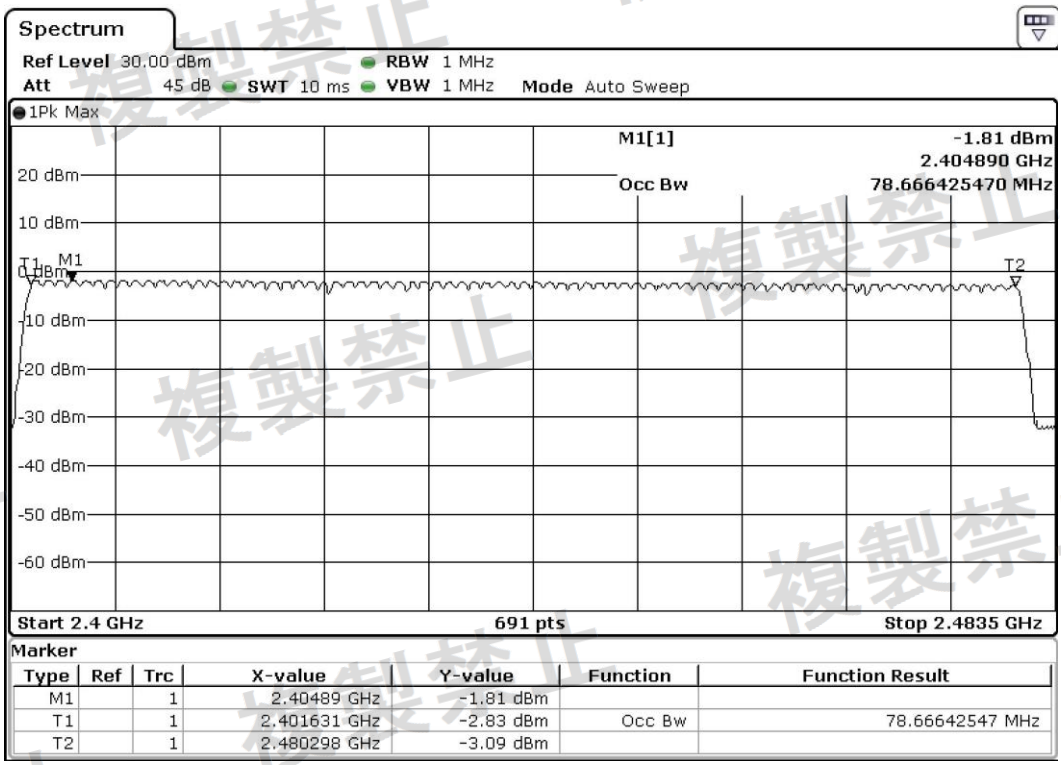
3.3.4 Test Result: PASS

	Frequency (MHz)	Result (MHz)	Limit (MHz)
GFSK	2402-2480	78.666	≤83.5

GFSK
2402 MHz -2480MHz(Hopping)



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3.4 Spread Bandwidth

Ambient temperature 25.8°C Relative humidity 55.6%

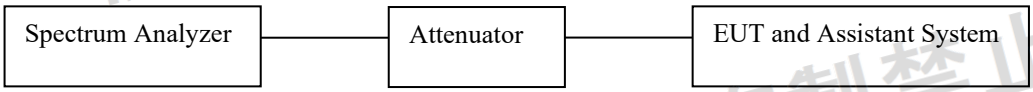
3.4.1 Limit

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more.

3.4.2 Test Procedures

(1) 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: 1MHz
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, measure the spread bandwidth (90% bandwidth) with spectrum analyzer's bandwidth measure function.

3.4.3 Test Setup



3.4.4 Test Result: PASS

Mode	Condition	CH	Result (MHz)	Limit (kHz)
GFSK	Normal	79 channels (2402-2480MHz)	71.295	⩾500

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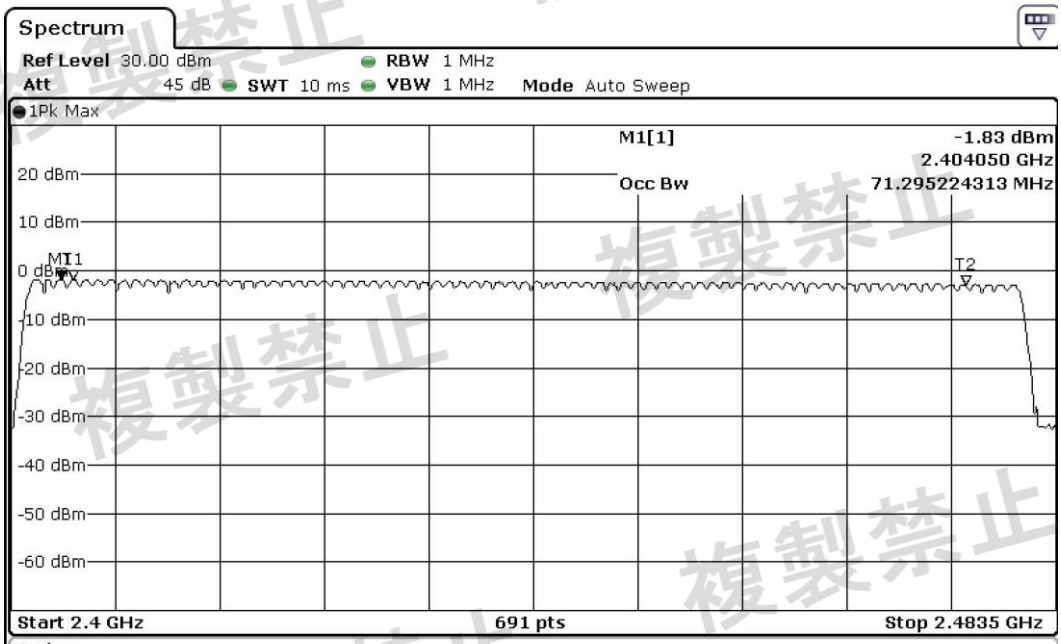
GFSK



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40405 GHz	-1.83 dBm		
T1		1	2.405015 GHz	-1.92 dBm	Occ Bw	71.295224313 MHz
T2		1	2.47631 GHz	-3.06 dBm		

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3.5 Dwell Time

Ambient temperature 25.8°C Relative humidity 55.6%

3.5.1 Limit

Frequency dwell time (time during which radio waves continue to be emitted at a specified frequency) of a transmitting equipment using the FHSS system shall be 0.4 seconds or less.

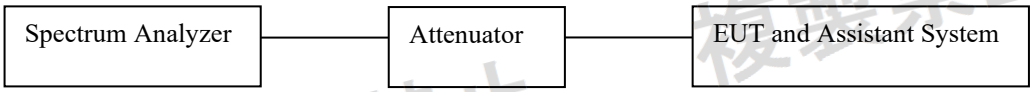
3.5.2 Test Procedures

(1) 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: 1MHz
Span: Zero span
Detector: Peak
Trace Mode: Max Hold
Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:
Dwell time = (0.4(s) x spreading rate x sending time of 1 burst(s))/(burst cycle(s) x No. of hopping channel)
Spreading rate = Spread bandwidth (actual measurement value)/Transmission rate.

3.5.3 Test Setup



3.5.4 Test Result: PASS

Mode	Result (s)	Limit (s)
GFSK	0.1106	≤0.4

GFSK mode Spreading rate= Spread bandwidth (actual measurement value)/Transmission rate=71.295MHz/1Mbps=71.295

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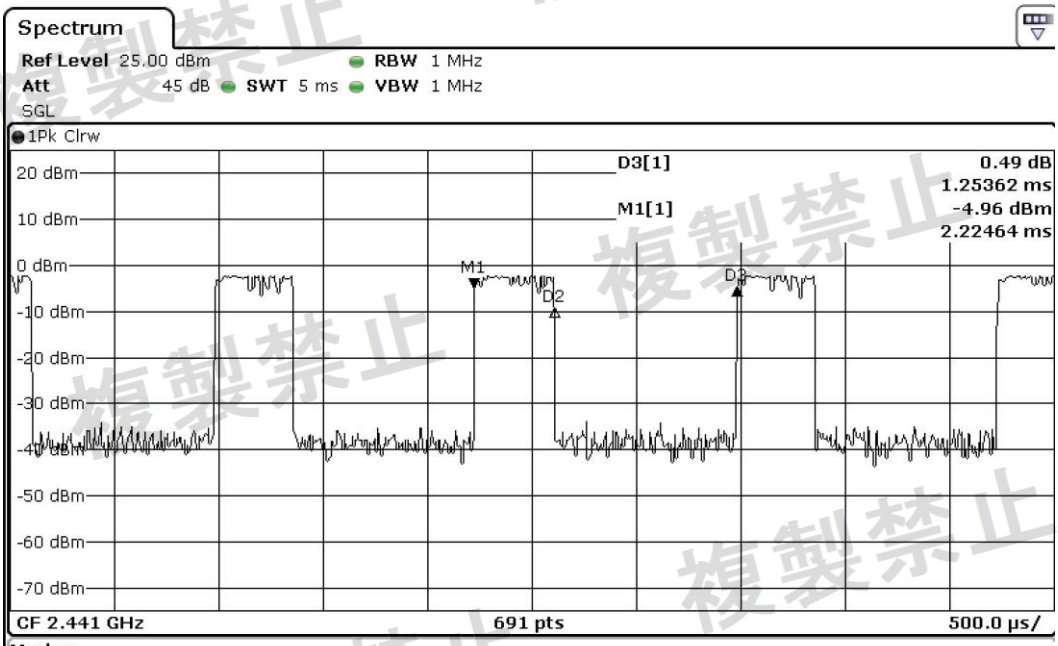

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.22464 ms	-4.96 dBm		
D2	M1	1	384.06 µs	-4.19 dB		
D3	M1	1	1.25362 ms	0.49 dB		

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3.6 Transmitter Spurious Emissions (conducted)

Ambient temperature 25.8°C Relative humidity 55.6%

3.6.1 Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

a. 2,387MHz ≤ f ≤ 2,400MHz and 2,483.5MHz < f ≤ 2,496.5MHz 25 μW or less

b. 2,387MHz > f and 2,496.5MHz < f 2.5 μW or less

3.6.2 Test Procedures

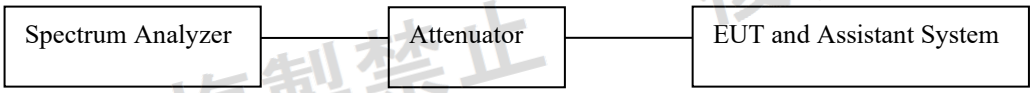
(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1GHz
Resolution BW: 100kHz
Video BW: 100kHz
Detector: Peak
Trace Mode: Max Hold

Over 1GHz
Resolution BW: 1MHz
Video BW: 1MHz
Detector: Peak
Trace Mode: Max Hold

(2) All the emissions from 30MHz to 13GHz were measured and record.

3.6.3 Test Setup



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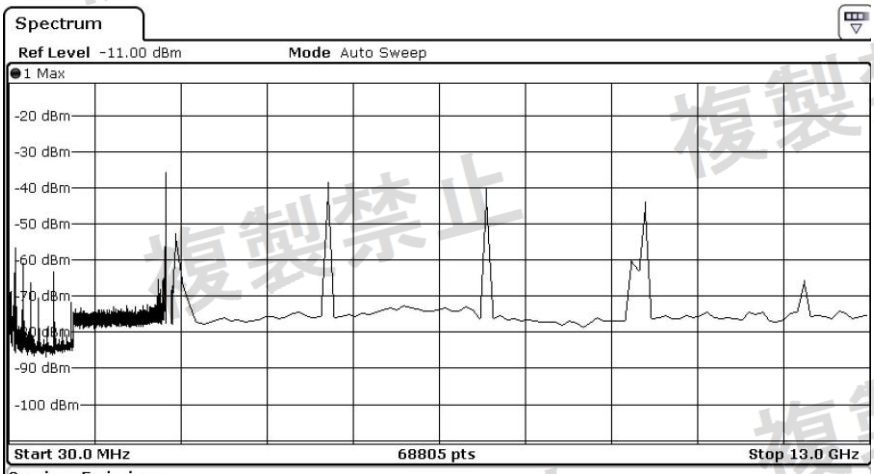
3.6.4 Test Result: PASS

GFSK

Test Frequency (MHz)	Frequency Range (MHz)	Frequency (GHz)	Result (dBm)	Limit
2402	30-1000	0.12063481	-56.51	≤2.5μW(-26dbm)
	1000-2387	2.37712	-59.58	
	2387-2400	2.39999	-35.88	≤25μW(-16dbm)
	2483.5-2496.5	2.49292	-67.32	
	2496.5-13000	4.83639	-38.44	≤2.5μW(-26dbm)
2441	30-1000	0.12063481	-56.78	≤2.5μW(-26dbm)
	1000-2387	2.32096	-64.10	
	2387-2400	2.39951	-61.98	≤25μW(-16dbm)
	2483.5-2496.5	2.48392	-64.01	
	2496.5-13000	4.83639	-39.31	≤2.5μW(-26dbm)
2480	30-1000	0.12063481	-56.67	≤2.5μW(-26dbm)
	1000-2387	2.36048	-64.75	
	2387-2400	2.39559	-65.40	≤25μW(-16dbm)
	2483.5-2496.5	2.48355	-42.57	
	2496.5-13000	4.94038	-39.49	≤2.5μW(-26dbm)

Lowest Channel (2402MHz) GFSK
30MHz-13GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	100.000 kHz	120.63481 MHz	-56.51 dBm	
1.000 GHz	2.387 GHz	1.000 MHz	2.37712 GHz	-59.58 dBm	
2.387 GHz	2.400 GHz	1.000 MHz	2.39999 GHz	-35.88 dBm	
2.484 GHz	2.497 GHz	1.000 MHz	2.49292 GHz	-67.32 dBm	
2.497 GHz	13.000 GHz	1.000 MHz	4.83639 GHz	-38.44 dBm	

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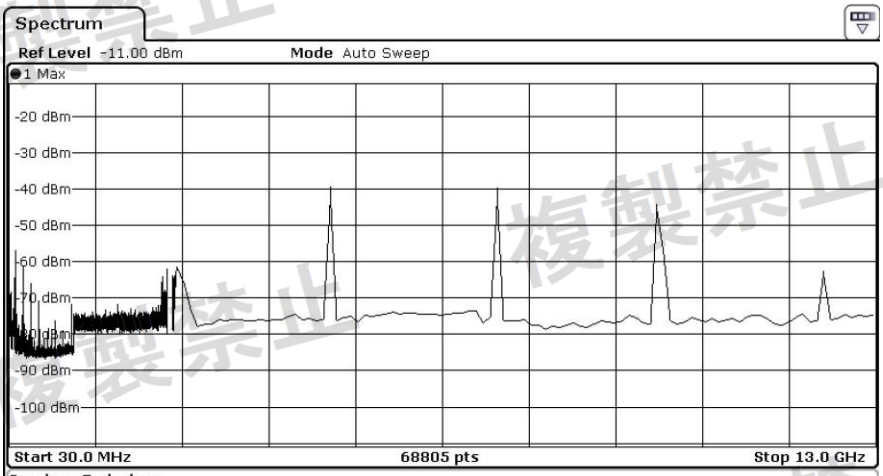
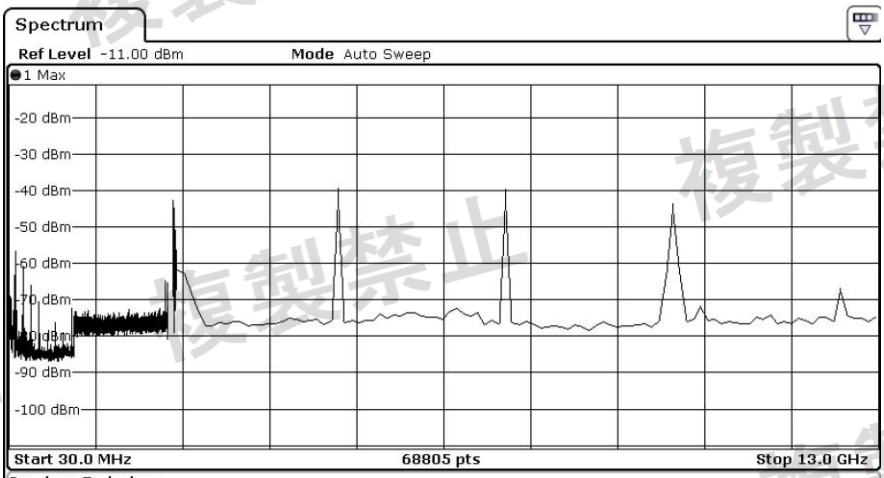
Middle Channel (2441MHz) GFSK
30MHz-13GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	100.000 kHz	120.63481 MHz	-56.78 dBm	
1.000 GHz	2.387 GHz	1.000 MHz	2.32096 GHz	-64.10 dBm	
2.387 GHz	2.400 GHz	1.000 MHz	2.39951 GHz	-61.98 dBm	
2.484 GHz	2.497 GHz	1.000 MHz	2.48392 GHz	-64.01 dBm	
2.497 GHz	13.000 GHz	1.000 MHz	4.83639 GHz	-39.31 dBm	

High Channel (2480MHz) GFSK
30MHz-13GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	100.000 kHz	120.63481 MHz	-56.67 dBm	
1.000 GHz	2.387 GHz	1.000 MHz	2.36048 GHz	-64.75 dBm	
2.387 GHz	2.400 GHz	1.000 MHz	2.39559 GHz	-65.40 dBm	
2.484 GHz	2.497 GHz	1.000 MHz	2.48355 GHz	-42.57 dBm	
2.497 GHz	13.000 GHz	1.000 MHz	4.94038 GHz	-39.49 dBm	

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3.7 Secondary Radiated Emissions

Ambient temperature 25.8°C Relative humidity 55.6%

3.7.1 Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

3.7.2 Test Procedures

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Resolution BW: 100 kHz for frequency below 1GHz and 1MHz for frequency above 1GHz
Video BW: 100 kHz for frequency below 1GHz and 1MHz for frequency above 1GHz
Detector: Peak
Trace Mode: Max Hold
(2) All the emissions from 30MHz to 13GHz were measured and record.

3.7.3 Test Setup

Spectrum Analyzer — Attenuator — EUT and Assistant System

3.7.4 Test Result: PASS

GFSK

Test Frequency (MHz)	Frequency Range (MHz)	Frequency (GHz)	Result (dBm)	Limit
2402	30-1000	0.12063481 MH2	-71.72	≤4nW(-54dbm)
	1000-13000	6.76906 GHz	-80.59	≤20nW(-47dbm)
2441	30-1000	0.12063481 MHZ	-71.72	≤4nW(-54dbm)
	1000-13000	5.83929 GHZ	-80.70	≤20nW(-47dbm)
2480	30-1000	0.12063481 MHZ	-71.66	≤4nW(-54dbm)
	1000-13000	6.69108 GH2	-80.54	≤20nW(-47dbm)

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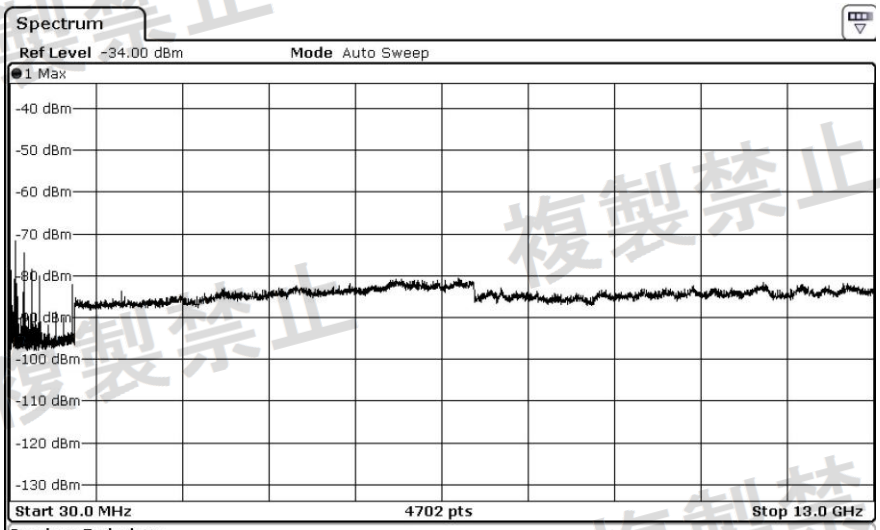
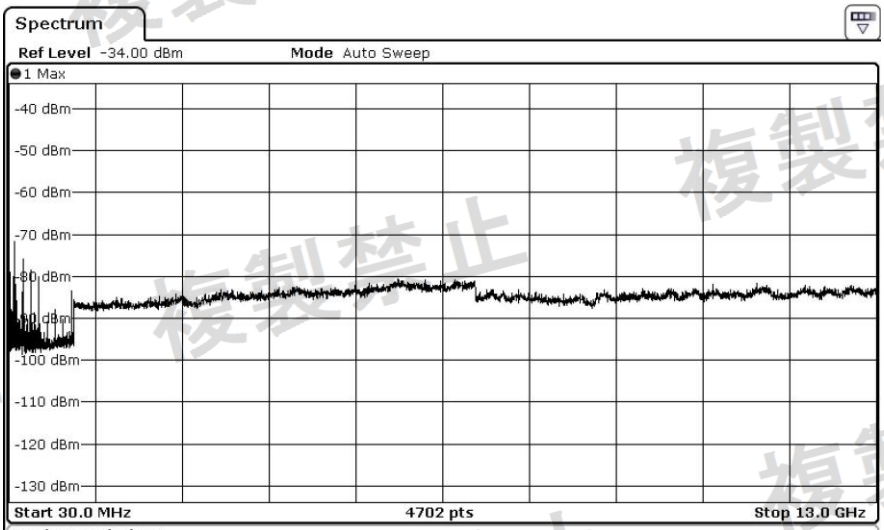
Lowest Channel (2402MHz) GFSK
30MHz-13GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	100.000 kHz	120.63481 MHz	-71.72 dBm	
1.000 GHz	13.000 GHz	1.000 MHz	6.76906 GHz	-80.59 dBm	

Middle Channel (2441MHz) GFSK
30MHz-13GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	100.000 kHz	120.63481 MHz	-71.72 dBm	
1.000 GHz	13.000 GHz	1.000 MHz	5.83929 GHz	-80.70 dBm	

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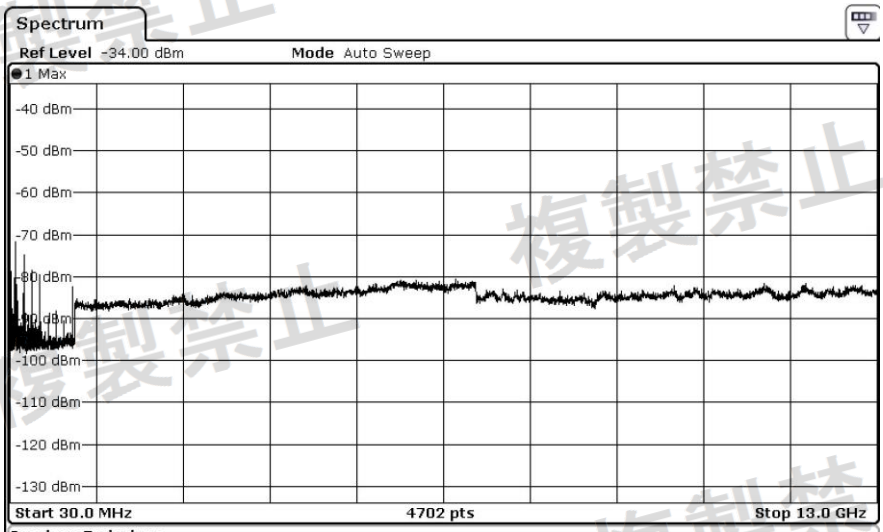
High Channel (2480MHz) GFSK
30MHz-13GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	100.000 kHz	120.63481 MHz	-71.66 dBm	
1.000 GHz	13.000 GHz	1.000 MHz	6.69108 GHz	-80.54 dBm	

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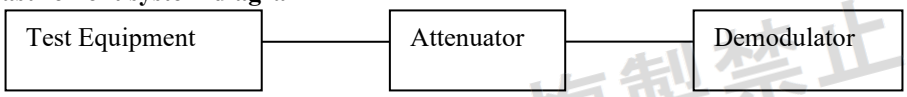
3.8 Interference Prevention Function test

Ambient temperature 25.8°C Relative humidity 55.6%

3.8.1 Measurement system diagram



a. When transmitting identification code
b. Condition of measuring instrument
Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.
c. Condition of test equipment mode of normal use.

3.8.2 Measuring operation procedure

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.
ID code: 6472D8 96A61F

3.8.3 Test result : Pass

The unit does meet the requirements.

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APPENDIX A

List of Measurement Equipment

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION COMPANY	DUE CAL
EMD161	SIGNAL ANALYZER	ROHDE & SCHWARZ	FSV	101438	CEPREI Calibration and Testing Centre	2026.07.03
EMD162	8-PORT MODULES FOR SWITCH UNITS	ROHDE & SCHWARZ	OSP-B157W8	100942	CEPREI Calibration and Testing Centre	2026.07.03
EMD-S13	RF TEST SOFTWARE	ROHDE & SCHWARZ	EMC32	V10.40.0.10	N/A	N/A
N/A	RF CABLE	JUNFLON	J12J103539-00-2	JAN-31-18-011	N/A	N/A
EMD100	THERMOHYGROGRAPH	SATO KEIRYOKI MFG.CO., LTD.	7210-00	1633581	CEPREI Calibration and Testing Centre	2026.11.13
ESD350	DC POWER SUPPLY	GWINSTEK	GPR-3060D	EK922727	CEPREI Calibration and Testing Centre	2026.03.12

Remark:
N/A Not Applicable

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APPENDIX B

Photograph (S) Of Product

View of the product

View of the product

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Photograph (S) Of Product

View of the product

View of the product

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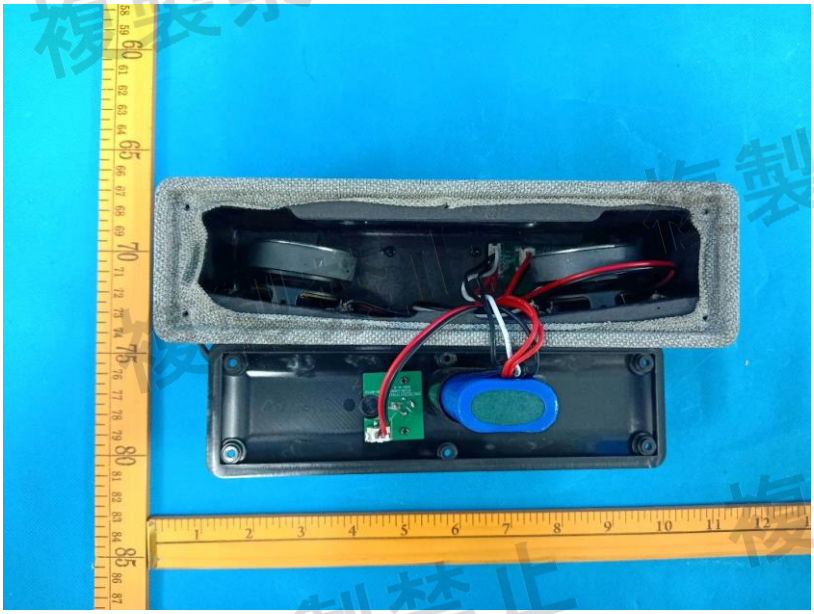
Photograph (S) Of Product

View of the product

Inner circuit bottom view



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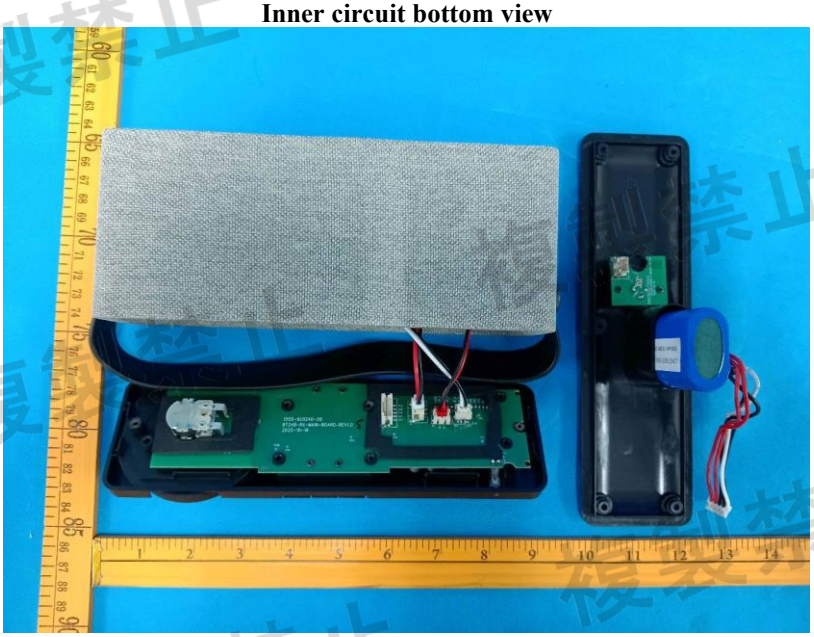
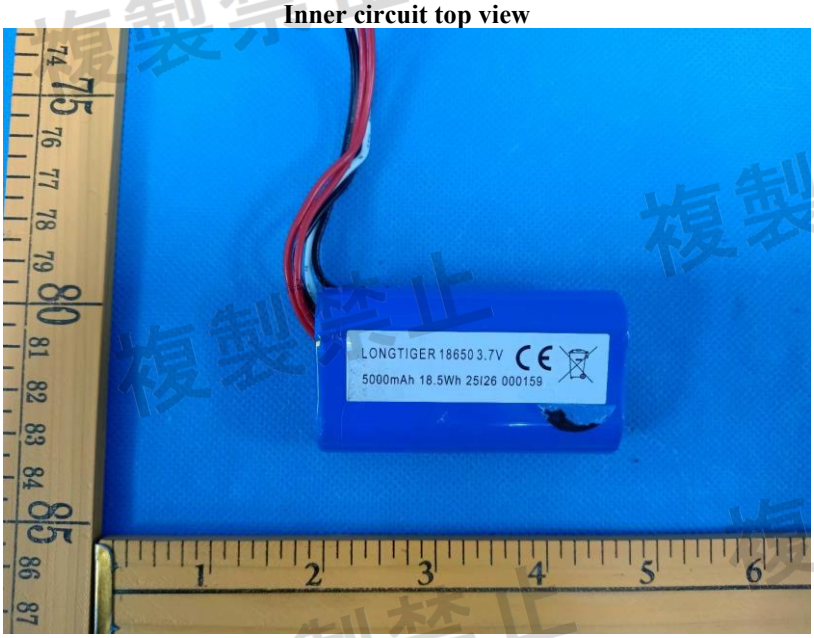
Photograph (S) Of Product

Inner circuit bottom view



Inner circuit top view



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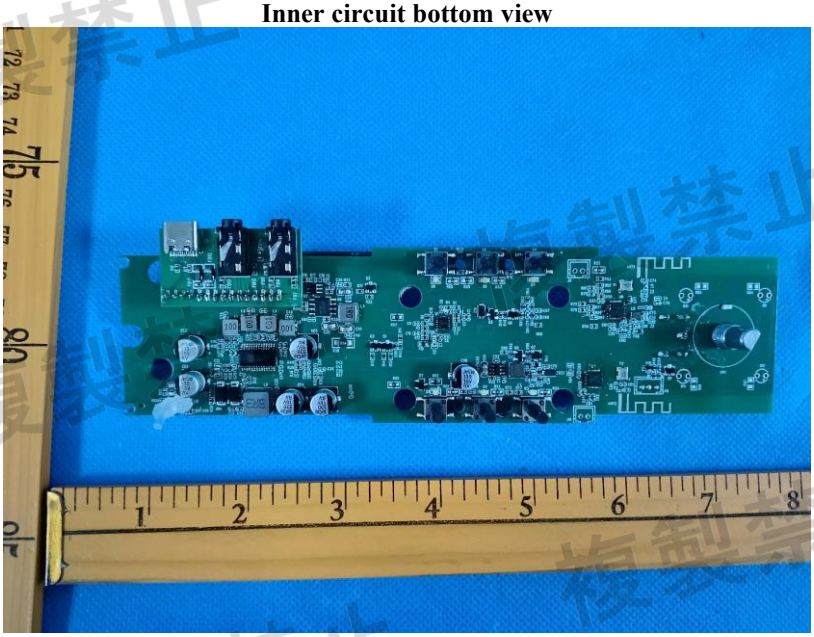
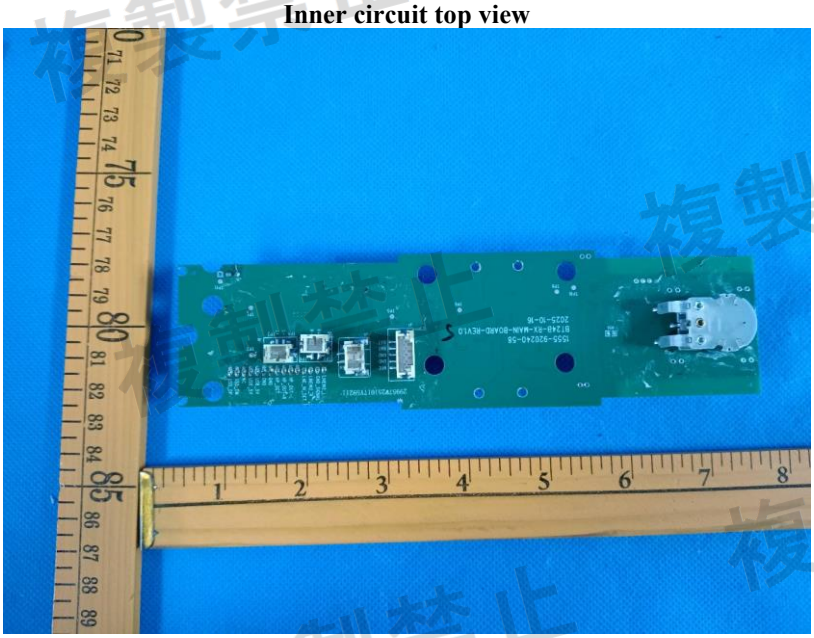
Photograph (S) Of Product

Inner circuit bottom view



Inner circuit top view



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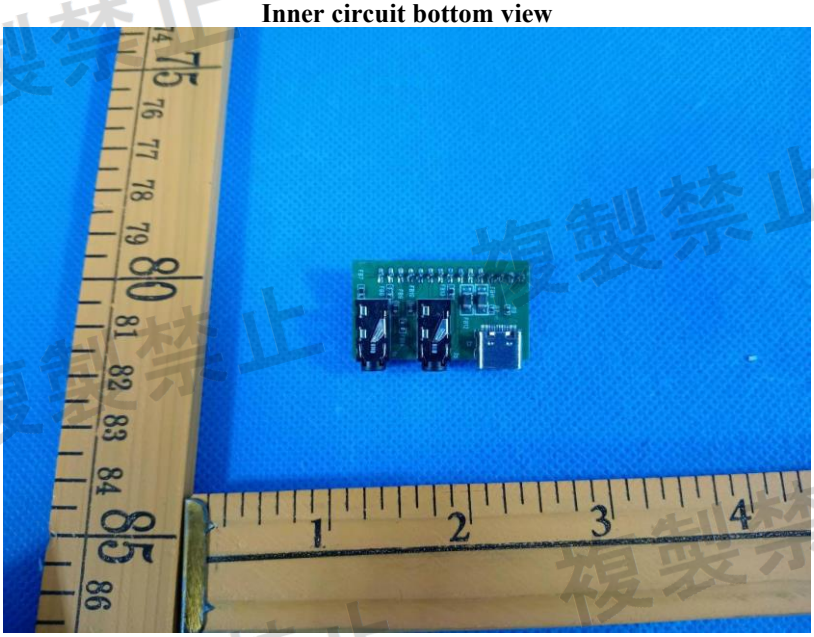
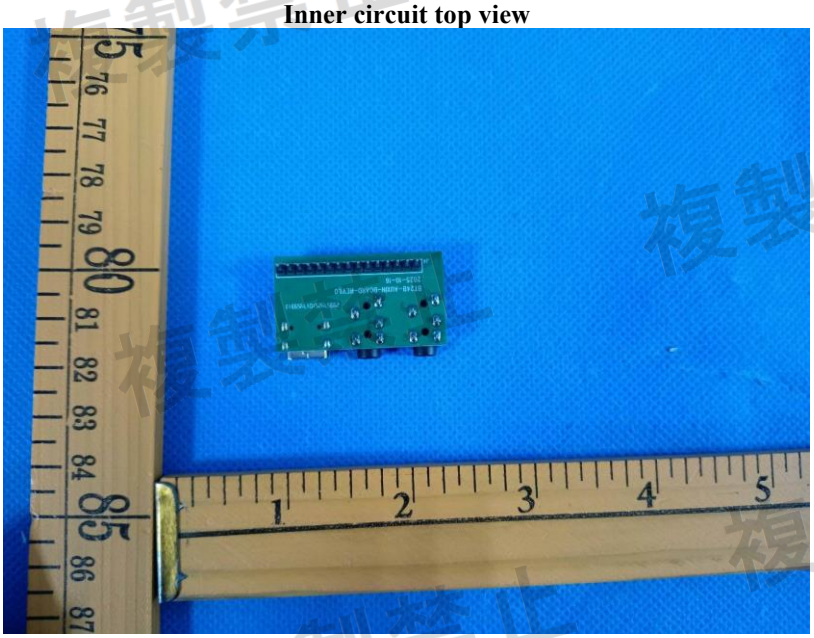
Photograph (S) Of Product

Inner circuit bottom view



Inner circuit top view



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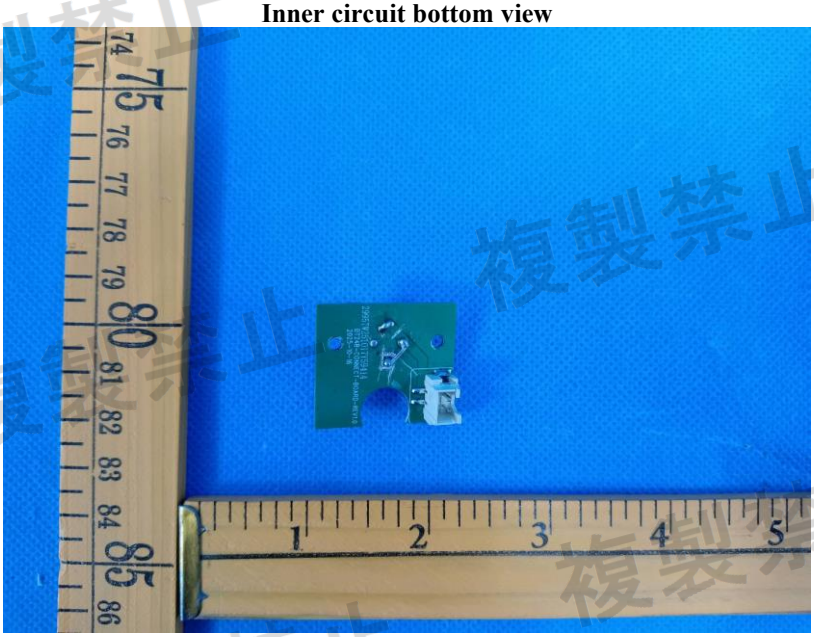
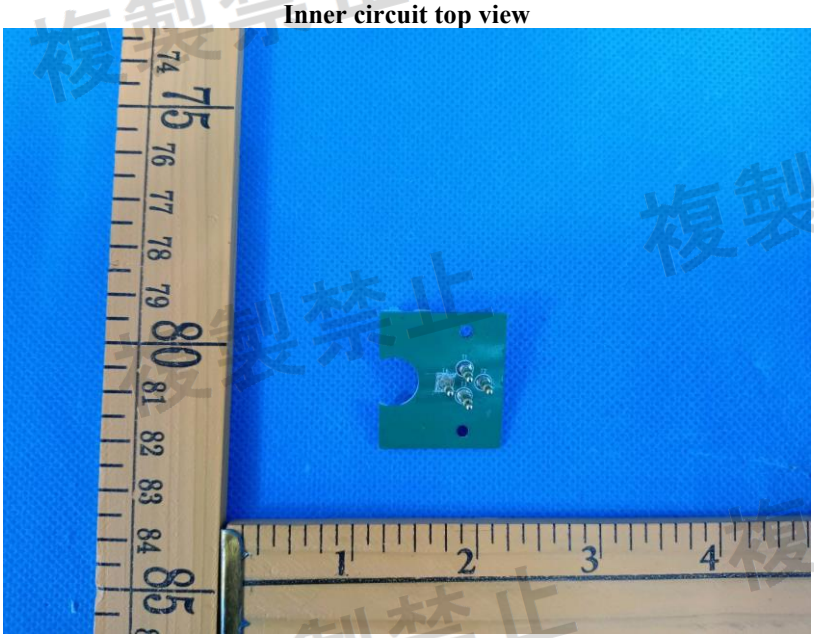
Inner circuit bottom view



Inner circuit top view



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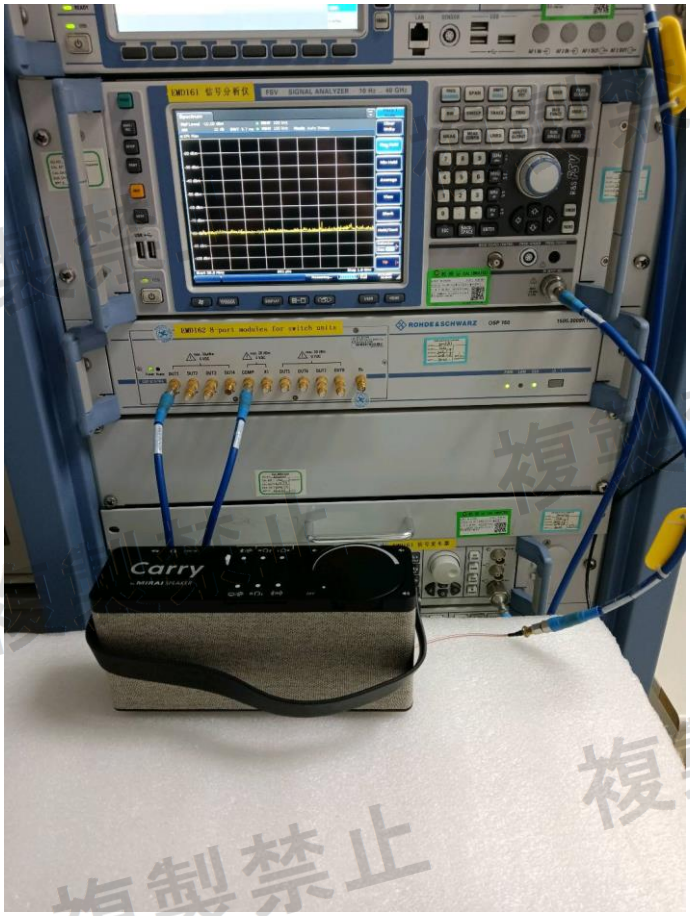
Photograph (S) Of Product

Test Setup



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3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.

4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

5. The results in the Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report. The Clients provide the sample's relevant information, and the Company will not be liable for or accept responsibility for the truth of the sample information.

6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) with 95% coverage probability will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.

7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

12. Issuance records of the Report are available on the internet at www.gdstc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.

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