



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

JAPAN MIC TEST REPORT

Applicant: Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.

Address: No. 8 Minying 1 Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China

Product Name: Headphone

Model Number: RK HG103Pro

Type of Equipment: Certification Ordinance Article 2, Paragraph 1, Item 19

Test method(s): MIC Notice No.88 of 2004, Appendix No.43
(Version: MIC Notice No.409 of 2023)

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603U09775E-RF-07A

Date Of Issue: 2026/7/30

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603U09775E-RF-07A	Original Report	2026/7/30

1 GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Headphone
Trade Name:	
EUT Model:	RK HG103Pro
Frequency Range:	2402-2480 MHz
Nominal RF Output Power (Conducted):	GFSK:0.02mW/MHz GFSK-AFH:0.06mW/MHz
Number of TX Chain(s):	1
Number of RX Chain(s):	1
Antenna Gain [▲] :	-0.58dBi
Modulation Type:	GFSK
Rated Input Voltage:	DC 5V from USB or DC 3.7V from battery
Sample Number:	3OKF-1
EUT Received Date:	2026/6/20
EUT Received Status:	Good

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
...	...	...	...
...	...	...	...
..	...	78	2480
39	2441	/	/

The test frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
USB Cable	/	/	Unshielded without ferrite core, 0.9m
AUX Cable	/	/	Unshielded without ferrite core, 1.15m

1.3 Objective

The objective of this current document is to demonstrate the EUT, as equipment type in Certification Ordinance Article 2-1-19 of Specific Radio Equipment Specified in Article 38-2-2 Paragraph 1 Item 1of the Radio Law, compliant with Article 49-20 of Radio equipment regulations.

1.4 Test Methodology

All measurements contained in this report were conducted with technical regulations of MIC Notice No.88 of 2004, Appendix No.43 (Version: MIC Notice No.409 of 2023).

1.5 Description of Test Configuration

1.5.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	FCC Assist_1.0.2.2		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:			
Test Modes	Power Level Setting		
	Lowest	Middle	Highest
GFSK	6	6	6

1.5.2 EUT Extremity Condition

The extreme voltage test conditions which were declared by the manufacturer and the normal conditions are as below:

Environment Element	Range	Declared Voltage Value (Vdc)	Measured Voltage (Vdc)	Voltage Variation (%)
Voltage Fluctuation:	NV	3.7	3.3	0.00
	LV	3.33	3.3	0.00
	HV	4.07	3.3	0.00

Note:

1. Voltage Variation (%) = (Measured Voltage at High or Low Voltage - Measured Voltage at Normal Voltage)/ Measured Voltage at Normal Voltage*100.

2. The Measured Voltage for the Radio Part fluctuation is verified at the power input PIN of the RF circuit.

The EUT have a chip JL7018M integrate a high efficiency power management unit with power supply from battery, power deviation of the RF chipset is less than 1% when extreme voltage supplied. All test cases were done under the Normal Voltage (NV) only.

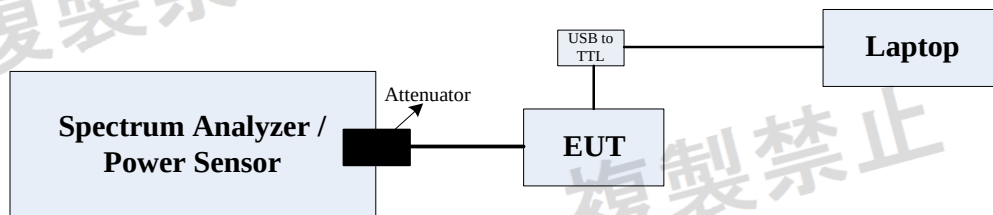
1.5.3 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK7
N/A	USB to TTL	N/A	N/A

1.5.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Serial Cable	No	No	0.15	EUT	USB to TTL
USB Cable	No	No	0.1	Laptop	USB to TTL

1.5.5 Block Diagram of Test Setup



1.6 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Frequency Error	$\pm 0,5$ ppm
Occupied Bandwidth and Spreading Bandwidth	± 5 %
RF Output Power, Conducted	± 0.61 dB
Unwanted Emissions (TX&RX), Conducted	± 2.47 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	± 5 %
DC And Low Frequency Voltages	± 0.4 %
Duty Cycle	1 %

2 SUMMARY OF TEST RESULTS

Certification Ordinance Article 2-1-19 Conducted with: MIC Notice No.88 Appendix No.43	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth	Compliant
3	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliant
4	Antenna Output Power and Output Power Tolerance	Compliant
5	Receiver Spurious Emission and Unwanted Emission Intensity	Compliant
6	Transmission Antenna Gain	Not Applicable*
7	Transmission Radiation Angle Width	Not Applicable*
8	Interference Prevention Function	Compliant
9	Frequency Hopping Dwell Time	Compliant
10	Construction Protection Confirmation	Compliant

Note:

Not Applicable*: This item not applicable when the EIRP less than the limit.

3 REQUIREMENTS AND TEST PROCEDURES

3.1 Frequency Error

3.1.1 Limit

Within ± 50 ppm.

3.1.2 Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode:

Positive peak / Trace mode: Max hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

3.2 Occupied Bandwidth

3.2.1 Limit

- Occupied bandwidth: ≤ 83.5 MHz

3.2.2 Test Procedure

- ❖ Conditions of Application Equipment (EUT)
 - The modulation state shall be “continuous frequency-hopping mode” by spread spectrum.
- ❖ Spectrum Analyzer Conditions
 - RBW: 300 kHz
 - VBW: 300 kHz
 - Sweep time: Auto, Marker: Marker Off
 - Log scale: 10dB/Div, Data points: 501points (400 points or more)
 - Detection: Positive Peak, Sweep mode: Continuous

3.3 Transmitter Spurious Emission Strength and Unwanted Emission Intensity

3.3.1 Limit

- $f < 1000 \text{ MHz}$: $\leq 0.25 \mu\text{W}/100\text{kHz}$
- $f < 2387 \text{ MHz}$, $f > 2496.5 \text{ MHz}$: $\leq 2.5 \mu\text{W}/\text{MHz}$
- $2387 \text{ MHz} \leq f \leq 2400 \text{ MHz}$; $2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$: $\leq 25 \mu\text{W}/\text{MHz}$

3.3.2 Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

❖ Spectrum Analyzer Conditions

Step1:

- Setting of SA start 30MHz and stop frequency 1000MHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $0.25 \mu\text{W}/100\text{kHz}$.
- Setting of SA start 1000MHz and stop frequency 2387MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $2.5 \mu\text{W}/\text{MHz}$.
- Setting of SA start 2387MHz and stop frequency 2400MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $25 \mu\text{W}/\text{MHz}$.
- Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $25 \mu\text{W}/\text{MHz}$.
- Setting of SA start 2496.5MHz and stop frequency 12500MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $2.5 \mu\text{W}/\text{MHz}$.

Step 2:

Center frequency: Searched Frequency

Span: 0Hz

RBW: 1MHz (Above 1GHz), 100 kHz(30MHz-1GHz). VBW: Same as RBW.

Sweep time: Auto (Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: 400 points or more. Sweep mode: Single Sweep.

Detection Mode: Sample

3.4 Antenna Output Power and Antenna Power Tolerance

3.4.1 Limit

- $\leq 3 \text{ mW /MHz}$
- The Output Power Tolerance must not greater than +20%.
- $\text{EIRP} \leq 6.91\text{dBm/MHz}$

3.4.2 Test Procedure

For FHSS UUT:

Connect the UUT to the power meter in a state of hopping mode.

Set the power meter to trace average across the pulse on period, record the reading level on power meter.

Calculate the mean power per 1MHz by dividing the reading level by "Spread Bandwidth".

3.5 Receiver Spurious Emission and Unwanted Emission Intensity

3.5.1 Limit

- $\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)
- $\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

3.5.2 Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be "continuous receiving mode".

❖ Spectrum Analyzer Conditions

- Start Frequency: Start Frequency of frequency range to measure (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (Measurement Range)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: Positive Peak
- Reference Level: Enough level for maximum dynamic range

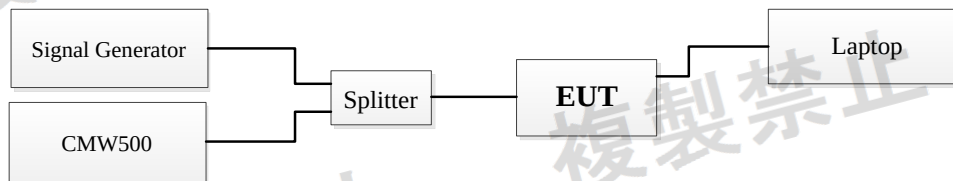
3.6 Interference Prevention Function

3.6.1 Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

3.6.2 Test Procedure

Measurement System Diagram:



In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.7 Frequency Hopping Dwell Time

3.7.1 Applicable Standard

According to Radio Law Radio Equipment Regulations Article 49-20, frequency dwell time is 0.4 seconds or below.

3.7.2 Test Procedure

❖ Conditions of Application Equipment (EUT)

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous (burst) transmission mode”. If impossible, it shall be “continuous frequency-hopping mode”.

3.8 Construction Protection Confirmation

3.8.1 Requirements

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

4 TEST DATA AND RESULTS

4.1 Test Environmental Conditions & Test Equipment List and Details

Test Date:		2026/7/9~2026/7/27			
Tester:		Zoey Song			
Environmental Conditions:					
Temperature: (°C)	24.7-25.6	Relative Humidity: (%)	47-56	ATM Pressure: (kPa)	99.9-100.5

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method ^{Note}
Agilent	USB Power Sensor	U2001H	MY50000432	2026/02/27	2027/02/26	BACL Cal	C
R&S	Spectrum Analyzer	FSU26	200256	2026/02/17	2027/02/16	BACL Cal	C
JD	Test software	JD Auto Test System	V1.0	N/A	N/A	CCICT	D
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2025/11/14	2026/11/13	BACL Cal	C
R&S	Wideband Radio Communication Tester	CMW500	143458	2026/02/27	2027/02/26	BACL Cal	C
Minl-Clrucits	Power Splitter	ZFSC-183-S+	SF448201619	Each time	N/A	CCICT	D

* **Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).

B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).

C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

4.2 Frequency Error

Test Result: Compliant. Please refers to following table and plots.

Test Mode: Carrier transmitting mode

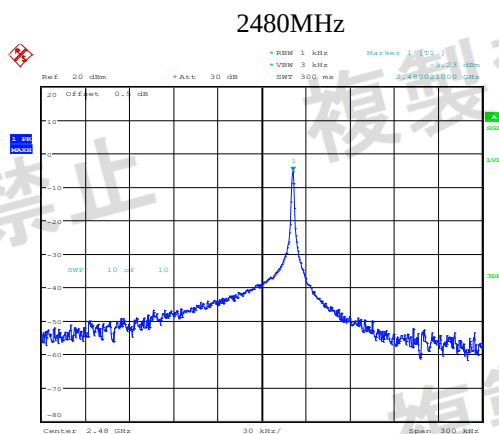
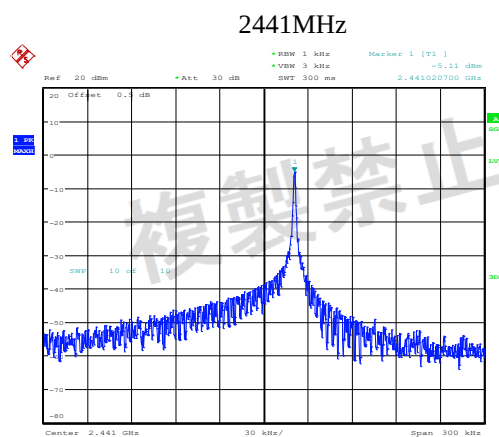
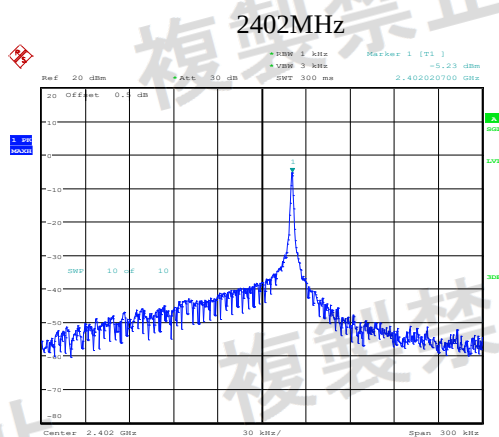
Test Condition: NV

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Verdict
Single Carrier	2402	2402.02070	8.62	± 50	Pass
	2441	2441.02070	8.48		Pass
	2480	2480.02100	8.47		Pass

Note: Frequency Tolerance = (Measured Frequency - Test Frequency)/Test Frequency*10⁶

Please refer to the plots as following:

Test Condition: NV



4.3 Occupied Bandwidth and Spreading Bandwidth

Test Result: Compliant. Please refers to following table and plots.

Test Mode: Transmitting

Test Condition: NV

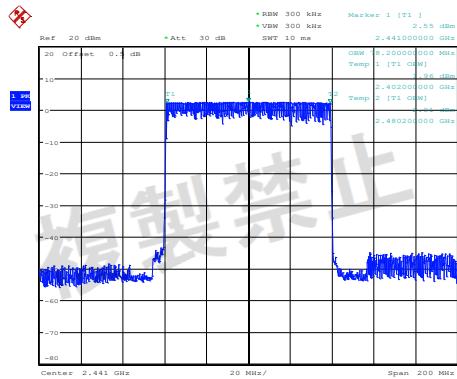
Mode	Packet Type	Occupied bandwidth (MHz)		Spreading bandwidth (MHz)	Result
		Measured	Limit	Measured	
GFSK	DH1	78.2	≤ 83.5	71.4	Pass
	DH3	78.2	≤ 83.5	71	Pass
	DH5	78.2	≤ 83.5	71.2	Pass
	AFH_DH1	19.8	≤ 83.5	18	Pass
	AFH_DH3	19.8	≤ 83.5	18	Pass
	AFH_DH5	19.8	≤ 83.5	18	Pass

Note: *The Spreading Bandwidth data is only used for reporting records and does not participate in limit determination.

Test Condition: NV

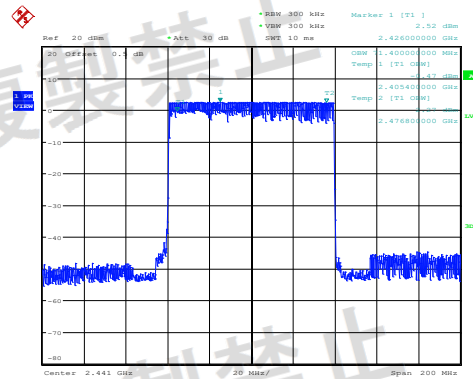
GFSK_Hopping_DH1

Occupied Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:51:14

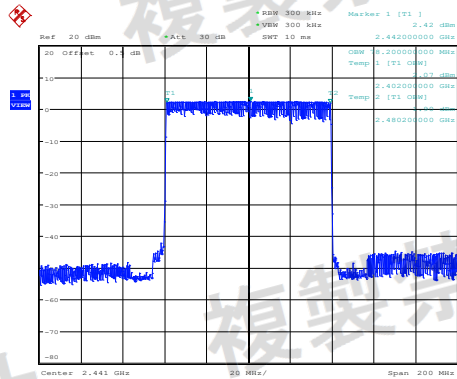
Spreading Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:53:34

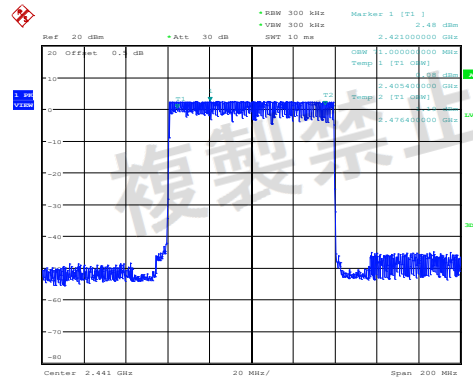
GFSK_Hopping_DH3

Occupied Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:56:03

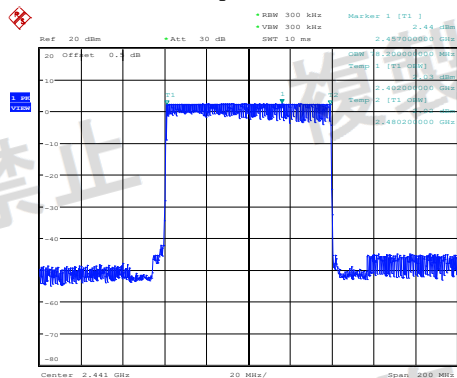
Spreading Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:57:14

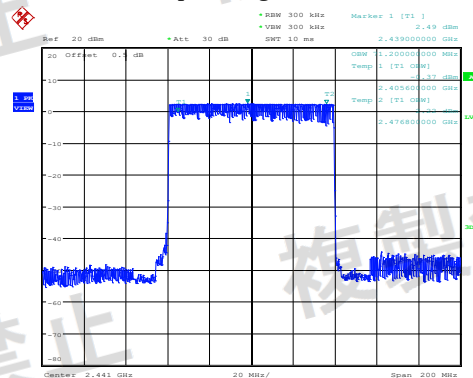
GFSK_Hopping_DH5

Occupied Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:00:20

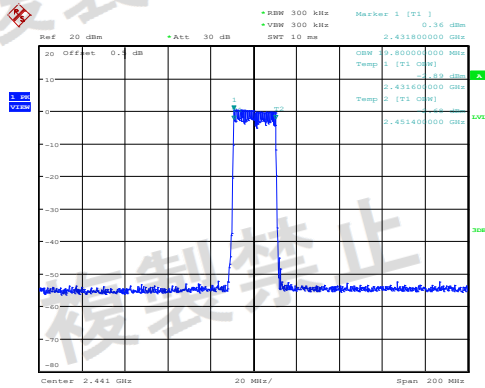
Spreading Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:01:35

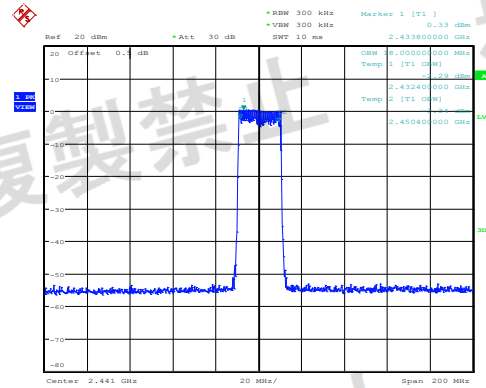
GFSK_Hopping_AFH_DH1

Occupied Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:38:03

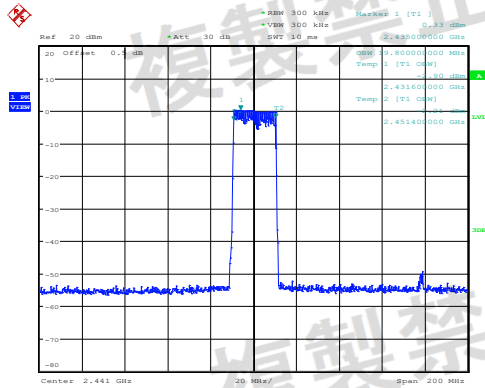
Spreading Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:38:58

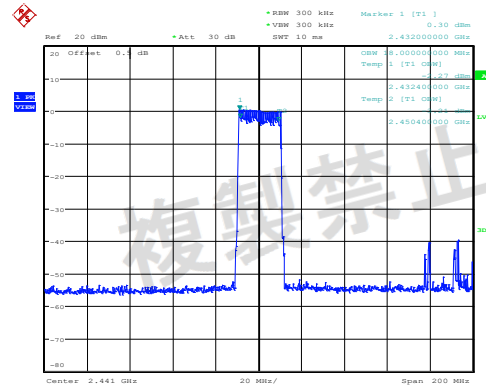
GFSK_Hopping_AFH_DH3

Occupied Bandwidth



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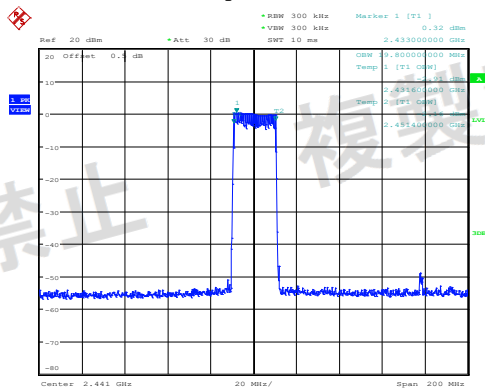
Spreading Bandwidth



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Date: 9.JUL.2026 16:42:38

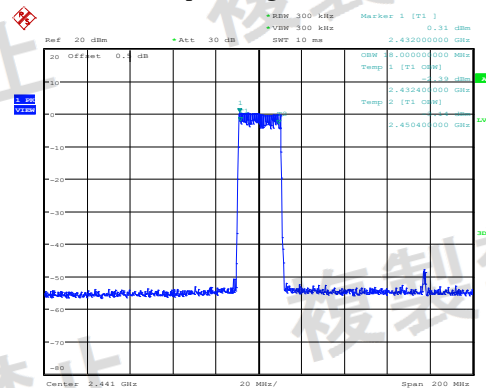
GFSK_Hopping_AFH_DH5

Occupied Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:43:47

Spreading Bandwidth



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:44:37

4.4 Transmitter Spurious Emission Strength and Unwanted Emission Intensity

Test Result: Compliant. Please refers to following tables and plots.

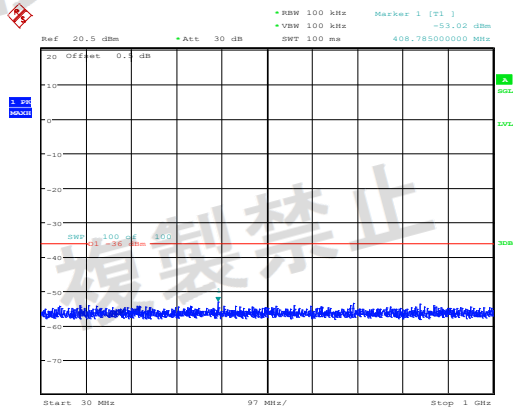
Test Mode: Transmitting

Test Condition: NV, GFSK

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	408.785	-53.02	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2210.158	-43.92	0.041	2.50	Pass
	Band III (1MHz)	2387	2400	2399.994	-21.59	6.934	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2486.178	-48.17	0.015	25	Pass
	Band V (1MHz)	2496.5	12500	9603.987	-31.22	0.755	2.50	Pass
Middle	Band I (100kHz)	30	1000	338.460	-53.30	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2251.768	-42.88	0.052	2.50	Pass
	Band III (1MHz)	2387	2400	2395.613	-46.16	0.024	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2490.839	-44.70	0.034	25	Pass
	Band V (1MHz)	2496.5	12500	9769.045	-29.84	1.038	2.50	Pass
High	Band I (100kHz)	30	1000	795.815	-53.36	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2288.523	-41.32	0.074	2.50	Pass
	Band III (1MHz)	2387	2400	2397.212	-48.62	0.014	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.507	-39.61	0.109	25	Pass
	Band V (1MHz)	2496.5	12500	9914.095	-31.19	0.760	2.50	Pass

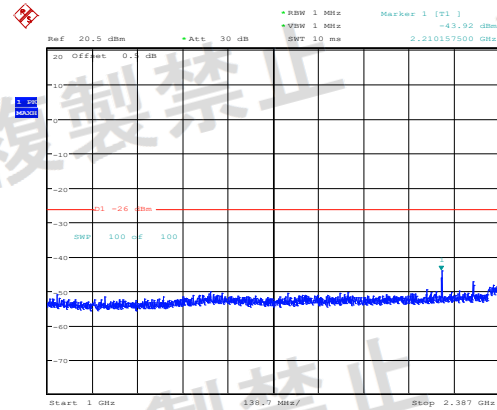
Test Condition: NV

GFSK_Low_DH1(30MHz~1GHz)



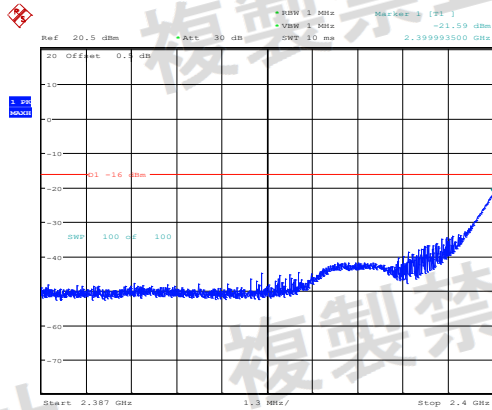
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:10:03

GFSK_Low_DH1(1GHz~2.387GHz)



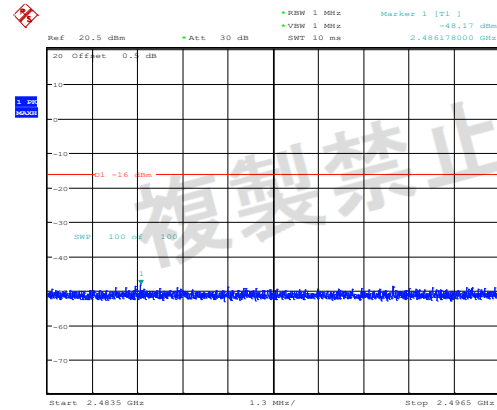
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:10:21

GFSK_Low_DH1(2.387GHz~2.4GHz)



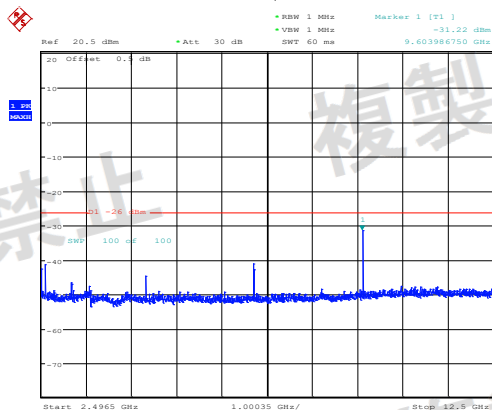
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:10:36

GFSK_Low_DH1(2.4835GHz~2.4965GHz)



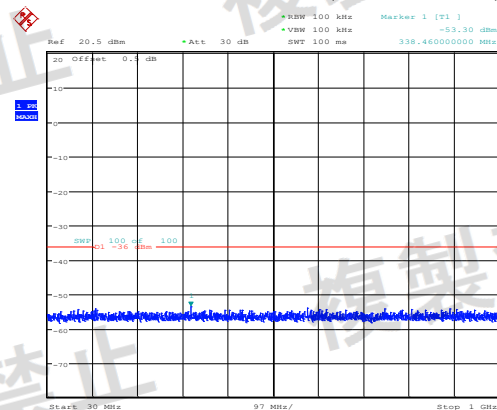
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:10:51

GFSK_Low_DH1(2.4965GHz~12.5GHz)



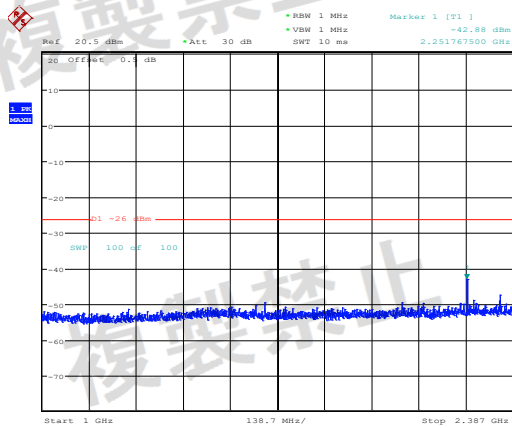
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:11:24

GFSK_Middle_DH1(30MHz~1GHz)



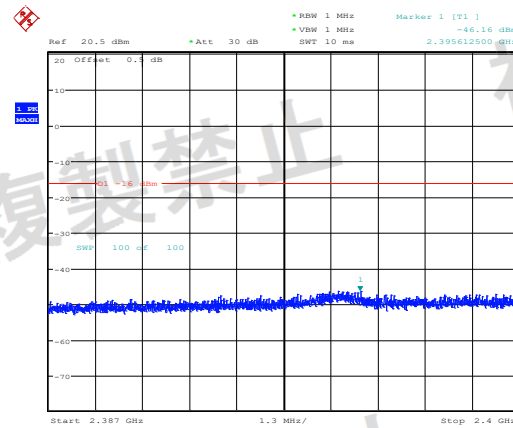
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:12:04

GFSK_Middle_DH1(1GHz~2.387GHz)



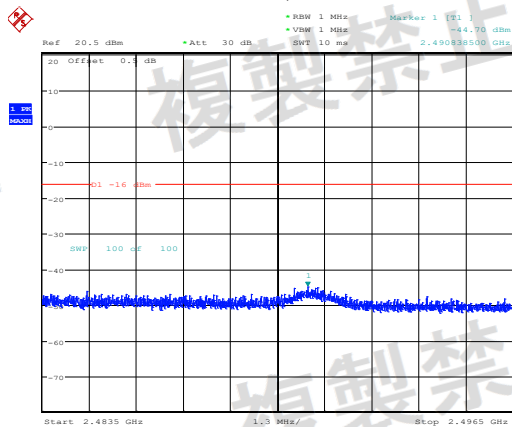
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:12:23

GFSK_Middle_DH1(2.387GHz~2.4GHz)



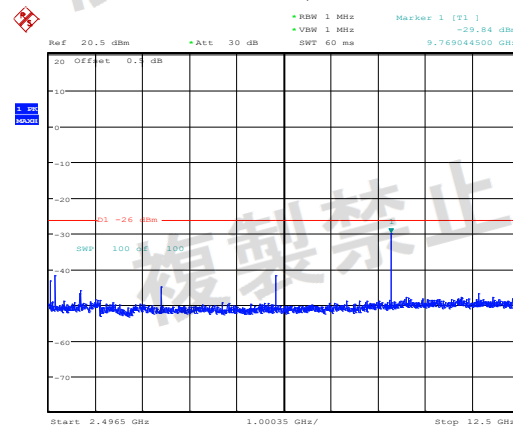
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:12:38

GFSK_Middle_DH1(2.4835GHz~2.4965GHz)



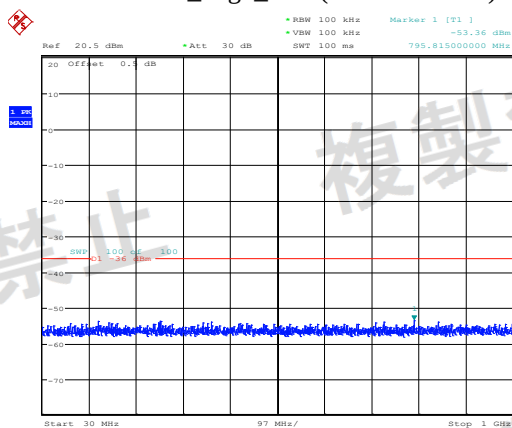
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:12:54

GFSK_Middle_DH1(2.4965GHz~12.5GHz)



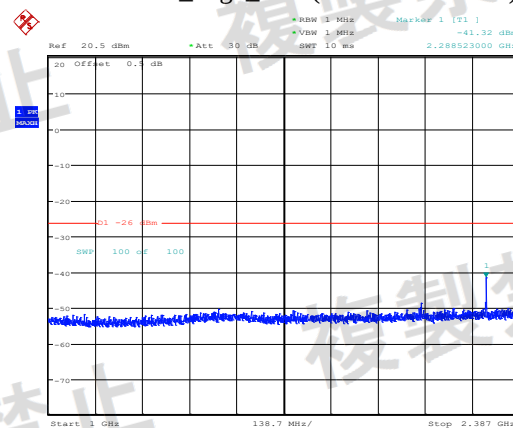
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:13:28

GFSK_High_DH1(30MHz~1GHz)



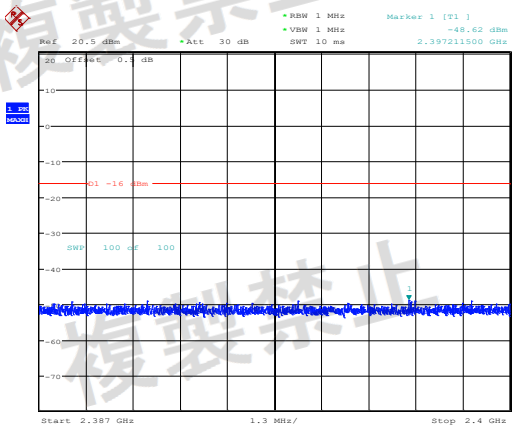
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:14:09

GFSK_High_DH1(1GHz~2.387GHz)



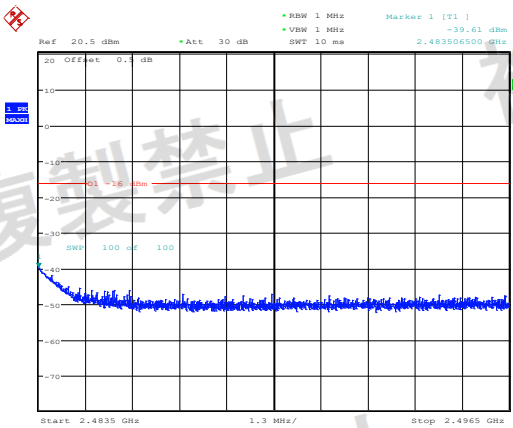
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:14:28

GFSK_High_DH1(2.387GHz~2.4GHz)



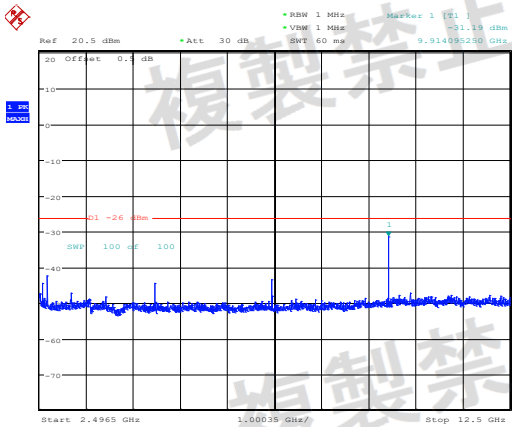
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:14:44

GFSK_High_DH1(2.4835GHz~2.4965GHz)



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:15:00

GFSK_High_DH1(2.4965GHz~12.5GHz)



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:15:34

4.5 Antenna Output Power and Antenna Power Tolerance

Test Result: Compliant. Please refers to following tables and plots.

Test Mode: Transmitting

Test Condition: NV

Mode	Antenna gain (dBi)	Declared power (mW/MHz)
GFSK	-0.58	0.020
GFSK-AFH		0.060

Mode	Antenna output power (dBm)	Spread bandwidth (MHz)	Antenna output power (mW/MHz)		Antenna output power tolerance(%)		EIRP (dBm/MHz)		Verdict
			Result	Limit	Result	Limit	Result	Limit	
GFSK	1.06	71.400	0.018	≤ 3	-10.0	≤ 20	-18.03	≤ 6.91	Pass
GFSK-AFH	-0.09	18	0.054	≤ 3	-10.0	≤ 20	-13.26	≤ 6.91	Pass

Note:

1. Antenna output power(mW)= $10^{\{Antenna\ output\ power(dBm)/10\}}$
2. Antenna output power(mW/MHz)=Antenna output power(mW)/Spread bandwidth(MHz)
3. Antenna output power Tolerance(%)=(Antenna output power(mW/MHz)-Declared power)/Declared power*100%
4. Antenna output power(dBm/MHz)= $10*\log_{10}\{Antenna\ output\ power(mW/MHz)\}$
5. EIRP(dBm/MHz)=Antenna output power(dBm/MHz)+Antenna gain.
6. The Spreading Bandwidth values refer to section 4.3.

4.6 Receiver Spurious Emission and Unwanted Emission Intensity

Test Result: Compliant. Please refers to following tables and plots.

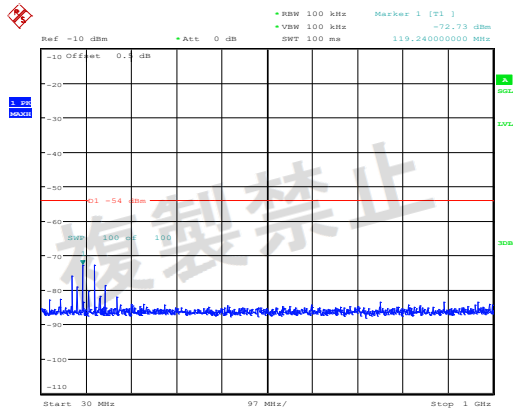
Test Mode: Receiving

Test Condition: NV

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
GFSK	Low	Band I (100kHz)	30	1000	119.24	-72.73	0.053	4	Pass
		Band II (1MHz)	1000	12500	2403	-67.79	0.166	20	Pass
	Middle	Band I (100kHz)	30	1000	143.49	-72.12	0.061	4	Pass
		Band II (1MHz)	1000	12500	2529.5	-63.02	0.499	20	Pass
	High	Band I (100kHz)	30	1000	143.49	-72.29	0.059	4	Pass
		Band II (1MHz)	1000	12500	2610	-58.75	1.334	20	Pass

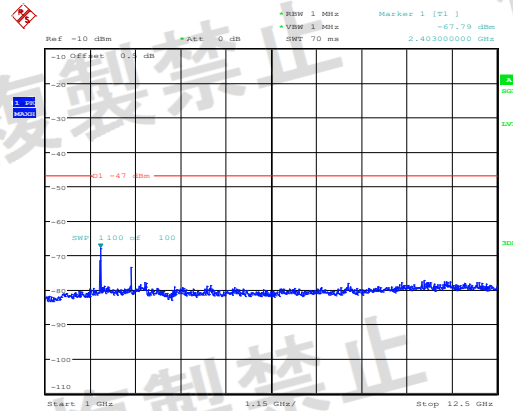
Test Condition: NV

GFSK_Low_DH1(30MHz~1GHz)



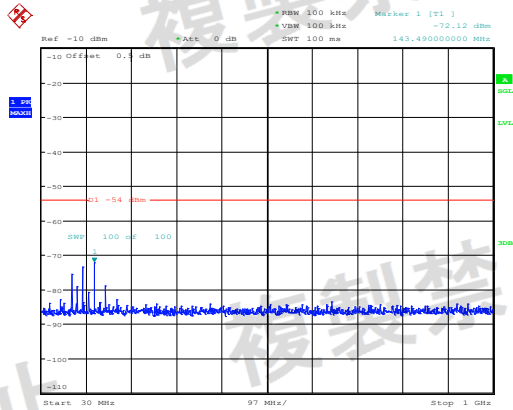
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:22:20

GFSK_Low_DH1(1GHz~12.5GHz)



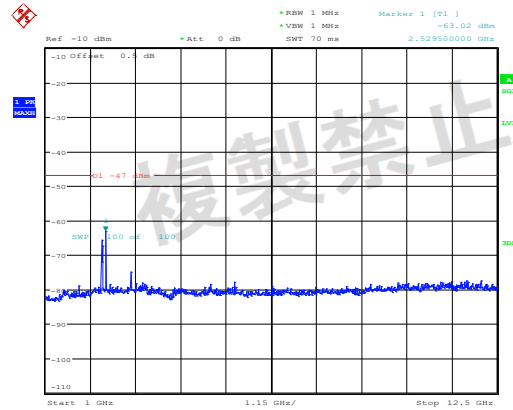
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:22:52

GFSK_Middle_DH1(30MHz~1GHz)



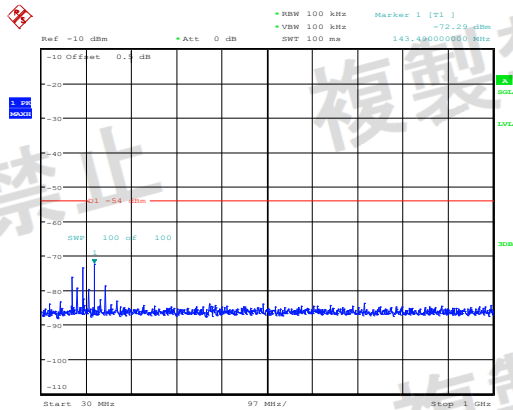
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:23:23

GFSK_Middle_DH1(1GHz~12.5GHz)



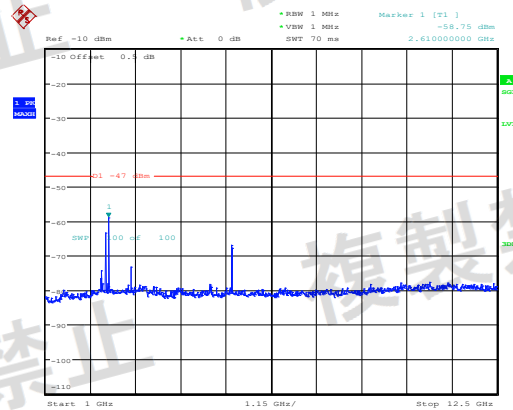
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:23:56

GFSK_High_DH1(30MHz~1GHz)



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:24:22

GFSK_High_DH1(1GHz~12.5GHz)



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 16:24:54

4.7 Frequency Hopping Dwell Time

Test Result: Compliant. Please refers to following tables and plots.

Test Mode: Transmitting

Test Condition: NV

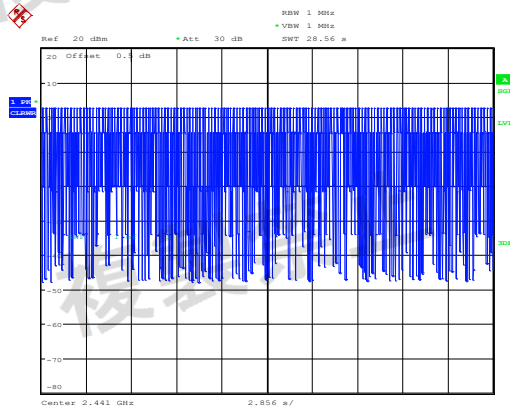
Mode	Packet Type	Spreading bandwidth	Ton (ms)	Observed Period(s)	Hopping Number In Observed Period	Result (s)	Limit(s)	Verdict
GFSK	DH1	71.4000	0.381	28.5600	203	0.077	≤ 0.4	Pass
	DH3	71.0000	1.643	28.4000	127	0.209	≤ 0.4	Pass
	DH5	71.2000	2.891	28.4800	82	0.237	≤ 0.4	Pass
	AFH_DH1	18.0000	0.381	7.2000	215	0.082	≤ 0.4	Pass
	AFH_DH3	18.0000	1.643	7.2000	106	0.174	≤ 0.4	Pass
	AFH_DH5	18.0000	2.891	7.2000	89	0.257	≤ 0.4	Pass

Note:

1. Dwell time = Time per one hopping (Ton) * hopping number (within the time obtained by multiplying the spread rate by 0.4s).
2. For Bluetooth device, spread rate equal to Spreading Bandwidth.
3. The Spreading Bandwidth values refer to section 4.3.

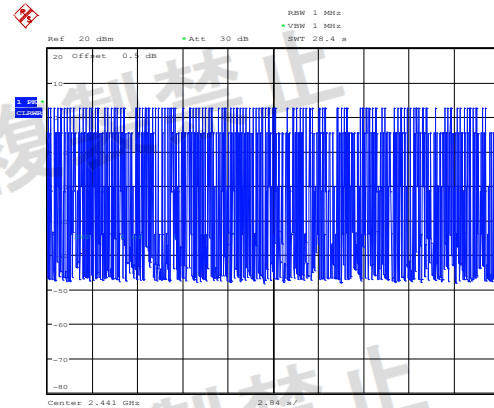
Test Plots for Hopping Number In Observed Period:**Test Condition: NV**

GFSK_Hopping_DH1



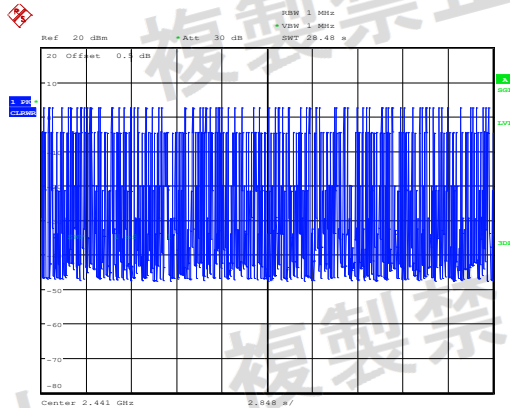
ProjectNo.:2603U09775E-RF Tester:Soey Song
Date: 9.JUL.2026 16:19:13

GFSK_Hopping_DH3



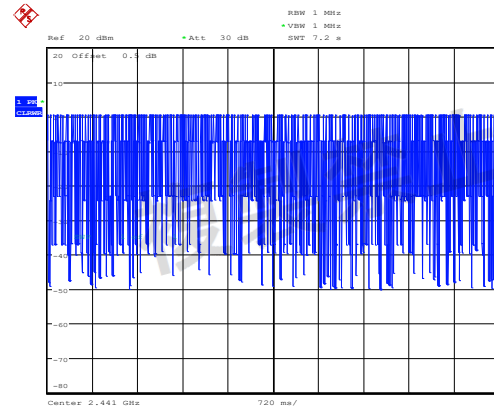
ProjectNo.:2603U09775E-RF Tester:Soey Song
Date: 9.JUL.2026 16:19:59

GFSK_Hopping_DH5



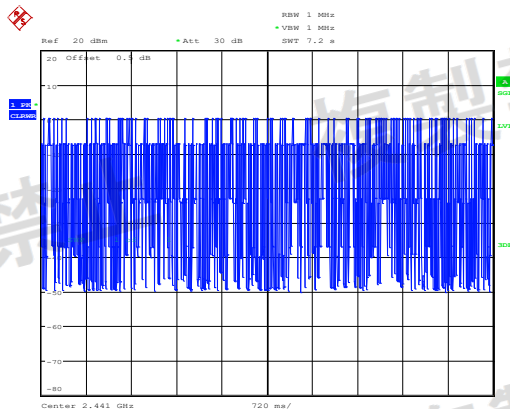
ProjectNo.:2603U09775E-RF Tester:Soey Song
Date: 9.JUL.2026 16:20:48

GFSK_Hopping_AFH_DH1



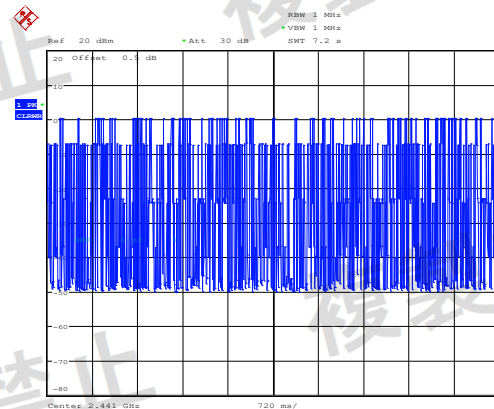
ProjectNo.:2603U09775E-RF Tester:Soey Song
Date: 9.JUL.2026 16:54:03

GFSK_Hopping_AFH_DH3



ProjectNo.:2603U09775E-RF Tester:Soey Song
Date: 9.JUL.2026 16:54:34

GFSK_Hopping_AFH_DH5

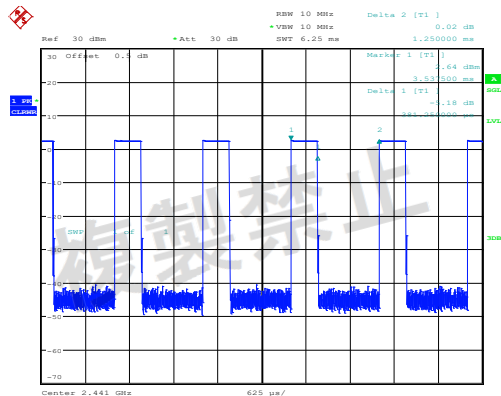


ProjectNo.:2603U09775E-RF Tester:Soey Song
Date: 9.JUL.2026 16:55:13

Test Plots for Ton:

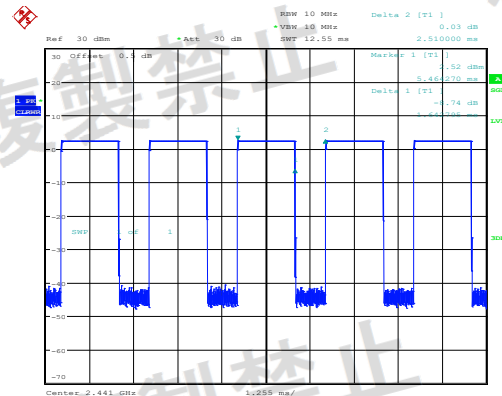
Test Condition: LV

GFSK_Middle_DH1



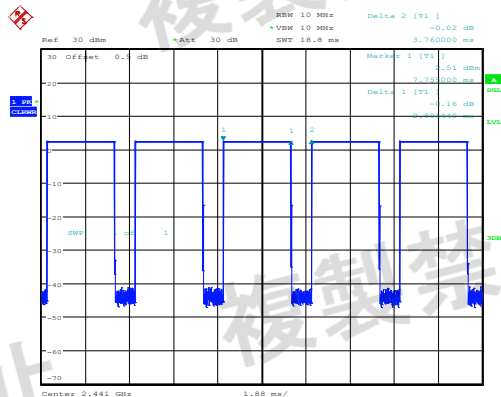
ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:27:07

GFSK_Middle_DH3



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:42:23

GFSK_Middle_DH5



ProjectNo.:2603U09775E-RF Tester:Zoey Song
Date: 9.JUL.2026 15:42:57

4.8 Interference Prevention Function

Test Result: Compliant. Please refers to following table.

Item	Result	Requirement	Verdict
Methodology to transmit ID Code:	Automatically	Automatically	Compliant
Methodology to receive ID Code:	Automatically	Automatically	Compliant
Identification Codes (ID Codes):	34:DF:69:17:CA:5A	/	/
Bits of ID Codes:	48 bits	48 bits or more	Compliant
Screenshot:			

4.9 Construction Protection Confirmation

Result: Compliant. please see the below table.

☒	Sealed with screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Cover is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Other
	If 'Other', describe the method here. Then delete this text.
Photographs	
	

5 EUT PHOTOGRAPHS

Please refer to the attachment 2603U09775E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603U09775E-RF-INP EUT INTERNAL PHOTOGRAPHS.

6 TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603U09775E-RF-TSP TEST SETUP PHOTOGRAPHS.

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