

TEST REPORT

Report No..... : CHTW26085023

Project No : SHT2607005306W

FCC ID : 2ASNS777H

Applicant's name : Shenzhen Retevis Technology Co., Ltd.

Address..... : 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China

Product Name : Two Way Radio

Trade Mark..... : RETEVIS

Model No..... : H777H

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 95 Subpart B**

Date of receipt of test sample.....: 2026/7/7

Date of testing.....: 2026/7/27 - 2026/8/3

Date of issue.....: 2026/8/17

Result.....: **PASS**



Compiled by (Position+Printed name+Signature) :	File administrator	Xiaodong Zhao	<i>Xiaodong Zhao</i>
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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

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Test Report Form(s) Originator : Shenzhen Huatongwei International Inspection Co., Ltd.

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Contents

<u>1.</u>	<u>TEST STANDARDS AND REPORT VERSION</u>	<u>3</u>
1.1.	Test Standards	3
1.2.	Report version	3
<u>2.</u>	<u>TEST DESCRIPTION</u>	<u>4</u>
<u>3.</u>	<u>SUMMARY</u>	<u>5</u>
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Radio Specification Description	6
3.4.	Testing Laboratory Information	6
<u>4.</u>	<u>TEST CONFIGURATION</u>	<u>7</u>
4.1.	Test frequency list	7
4.2.	Test mode	7
4.3.	Support unit used in test configuration and system	8
4.4.	Testing environmental condition	8
4.5.	Measurement uncertainty	9
4.6.	Equipment Used during the Test	10
<u>5.</u>	<u>TEST CONDITIONS AND RESULTS</u>	<u>12</u>
5.1.	Carrier Output Power (ERP)	12
5.2.	99% Occupied Bandwidth & 26dB Bandwidth	13
5.3.	Emission Mask	14
5.4.	Modulation Limit	15
5.5.	Audio Frequency Response	16
5.6.	Audio Low Pass Filter Response	18
5.7.	Frequency stability VS Temperature	19
5.8.	Frequency stability VS Voltage	20
5.9.	Transmit Radiated Spurious Emission	21
<u>6.</u>	<u>TEST SETUP PHOTOS</u>	<u>25</u>
<u>7.</u>	<u>EXTERANAL AND INTERNAL PHOTOS</u>	<u>27</u>
7.1.	External Photos	27
7.2.	Internal Photos	30
<u>8.</u>	<u>APPENDIX REPORT</u>	<u>32</u>

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC CFR Title 47 Part 95 Subpart B](#): Family Radio Service (FRS)

[FCC Rules Part 2](#): Frequency allocations and radio treaty matters; General rules and regulations

[ANSI C63.26-2015](#): American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[ANSI TIA-603-E-2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

1.2. Report version

Revision No.	Date of issue	Description
N/A	2026-08-17	Original

2. TEST DESCRIPTION

Section	Test Items	Standard Requirement	Result	Test Engineer
5.1	Carrier Output Power (ERP)	Part 95.567 Part 2.1046(a)	PASS	Caspar Chen
5.2	99% Occupied Bandwidth & 26dB bandwidth	Part 95.573 Part 2.1049	PASS	Caspar Chen
5.3	Emission Mask	Part 95.579(a)(1)(2)(3) Part 2.1049	PASS	Caspar Chen
5.4	Modulation Limit	Part 95.575 Part 2.1047(b)	PASS	Caspar Chen
5.5	Audio Frequency Response	Part 95.575 Part 2.1047(a)	PASS	Caspar Chen
5.6	Audio Low Pass Filter Response	Part 95.575 Part 2.1047(a)	PASS	Caspar Chen
5.7	Frequency Stability V.S. Temperature	Part 95.565 Part 2.1055	PASS	Caspar Chen
5.8	Frequency Stability V.S. Voltage	Part 95.565 Part 2.1055	PASS	Caspar Chen
5.9	Transmit Radiated Spurious Emission	Part 95.579(a)(3) Part 2.1053	PASS	Junxu Lin

Note:

The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen Retevis Technology Co., Ltd.
Address:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Retevis Technology Co., Ltd.
Address:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China

3.2. Product Description

Main unit information:	
Product Name:	Two Way Radio
Trade Mark:	RETEVIS
Model No.:	H777H
Listed Model(s):	-
Power supply:	DC 3.7V from battery
Hardware version:	2.0
Software version:	2.0.0
Accessory unit information:	
Battery information:	Model:H777 3.7V 1000mAh 3.7Wh
Adapter information:	MODEL:DSA-5PF07-05 FUS 050100 INPUT:100-240V~50/60Hz 0.2A OUTPUT:5V 1A
Charger information:	Model:H777 Input:5V 1A Output:4.2V 500mA

3.3. Radio Specification Description

Support Frequency Range:	CH01~CH07: 462.5625MHz~ 462.7125MHz CH15~CH22: 462.5500MHz~ 462.7250MHz
Modulation Type:	FM
Emission Designator: * ¹	11K0F3E
Antenna Type:	Spring Antenna
Antenna Gain:	0dBi

Note:

(1) *¹ According to FCC Part 2.202 requirements, the Necessary Bandwidth is calculated as follows:

- For FM Voice Modulation

Channel Spacing = 12.5 KHz, D = 2.5 KHz max, K = 1, M = 3 KHz

$B_n = 2M + 2DK = 2*3 + 2*2.5*1 = 11 \text{ KHz}$

Emission designation: 11K0F3E

(2) The device only supports voice communication.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Connect information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

According to ANSI C63.26 section 5.1.2.1:

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

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

Test Channel	Channel No.	Frequency (MHz)	Frequency band (MHz)
CH _{M1}	CH04	462.6375	462.5625~462.7125
CH _{M2}	CH18	462.6250	462.5500~462.7250

The Product channel frequency table:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
01	462.5625	/	/
02	462.5875	/	/
03	462.6125	/	/
04	462.6375	15	462.5500
05	462.6625	16	462.5750
06	462.6875	17	462.6000
07	462.7125	18	462.6250
/	/	19	462.6500
/	/	20	462.6750
/	/	21	462.7000
/	/	22	462.7250

4.2. Test mode

Test mode	Description
TX-FRS	Keep the EUT in transmitting continuously

Modulation Type	Description
UM	Un-modulation
AM1	The transmitter shall be modulated with a 2.5 kHz tone at a level 16 dB higher than that required to produce 50% of the maximum frequency deviation.
AM2	Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation.
AM3	Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.

Test item	Modulation Type	Test mode
Output Power (ERP)	UM	TX-FRS
99% Occupied Bandwidth & 26dB bandwidth	AM1	TX-FRS
Emission Mask	AM1	TX-FRS
Modulation Limit	AM2	TX-FRS
Audio Frequency Response	AM3	TX-FRS
Audio Low Pass Filter Response	AM3	TX-FRS
Frequency Stability VS Temperature	UM	TX-FRS
Frequency Stability VS Voltage	UM	TX-FRS
Transmit Radiated Spurious Emission	AM1	TX-FRS

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?					
✓ No					
Item	Equipment	Trade Name	Model No.	FCC ID	Power cord
1	-	-	-	-	-

4.4. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar
Test voltage:	Normal voltage:	DC 3.7V
	Extreme lower voltage*:	DC 3.0V
	Extreme upper voltage*:	DC 4.2V

Note:

*: The extreme voltage is declared by the equipment supplier.

4.5. Measurement uncertainty

Test Item	Measurement Uncertainty
Frequency stability	25 Hz
Carrier output power (ERP)	2.20 dB
Occupied Bandwidth	35 Hz
Modulation Limiting	0.42 %
FM deviation	25 Hz
Audio level	0.62 dB
Radiated Spurious Emission 30~1000MHz	4.65 dB
Radiated Spurious Emission 1~18GHz	5.16 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.6. Equipment Used during the Test

● RF Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	Radiated Spurious Emission	E3	AUDIX	HTWER006	V6.110407a

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2026/7/10	2027/7/9
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2026/7/6	2027/7/5
●	RF Communication Test Set	HP	HTWE0038	8920A	3813A10206	2026/7/10	2027/7/9
●	Digital intercom communication tester	Aeroflex	HTWE0255	3920B	1001682041	2026/7/10	2027/7/9
●	Filter-VHF	Microwave	HTWE0309	N26460M1	498702	2026/7/27	2027/7/26
●	Filter-UHF	Microwave	HTWE0311	N25155M2	498704	2026/7/27	2027/7/26
●	Power Divider	Microwave	HTWE0043	OPD1040-N-4	N/A	2026/3/4	2027/3/3
●	Attenuator	JFW	HTWE0292	50FH-030-100	N/A	2025/10/22	2026/10/21
●	Attenuator	Eastsheep	HTWE0387	NCP-20-3-100W	/	2025/8/22	2026/8/21
●	Attenuator	Eastsheep	HTWE0388	NCP-10-3-100W	/	2025/8/22	2026/8/21
●	High Pass Filter	RFSYS	HTWE0390-05	RFSYS-GTA10	200615-1-04	2026/5/25	2027/5/24
●	Filter-UHF	Microwave	HTWE0310	N26460M1	498703 DC1808	2026/1/20	2027/1/19
●	Filter-VHF	Microwave	HTWE0312	N25155M2	498704 DC1808	2026/1/20	2027/1/19
●	Cable	-	HTWE0043-01	-	-	2026/5/12	2027/5/11

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2026/6/5	2027/6/4
●	DC Power Supply	MESTEK	HTWE0705	DP6010	00230820197	N/A	N/A

● Radiated Spurious Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Full-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11122	2026/3/19	2029/3/18
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2026/7/10	2027/7/9
●	Spectrum Analyzer	Agilent	HTWE0385	N9020A	MY54486658	2026/7/10	2027/7/9
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2024/4/8	2027/4/7
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0700	VULB9163	1422	2025/4/7	2028/4/6
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2026/1/23	2029/1/22
●	Horn Antenna	ETS	HTWE0532	3117	240056	2025/4/14	2028/4/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2026/5/12	2027/5/11
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2026/5/12	2027/5/11
●	Cable (Below 1G)	-	HTWE0120-01+HTWE0120-04+HTWE0120-05	-	-	2026/5/12	2027/5/11
●	Cable (Above 1G)	-	HTWE0121-03+HTWE0121-04+HTWE0104-09	-	-	2026/5/12	2027/5/11

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2026/4/15	2027/4/14
●	Band Stop filter	-	HTWE0039	N/A	N/A	2026/1/20	2027/1/19
●	High Pass Filter	Microwave	HTWE0040	OSF-HPF26300P20-LC	N/A	2026/1/20	2027/1/19

5. TEST CONDITIONS AND RESULTS

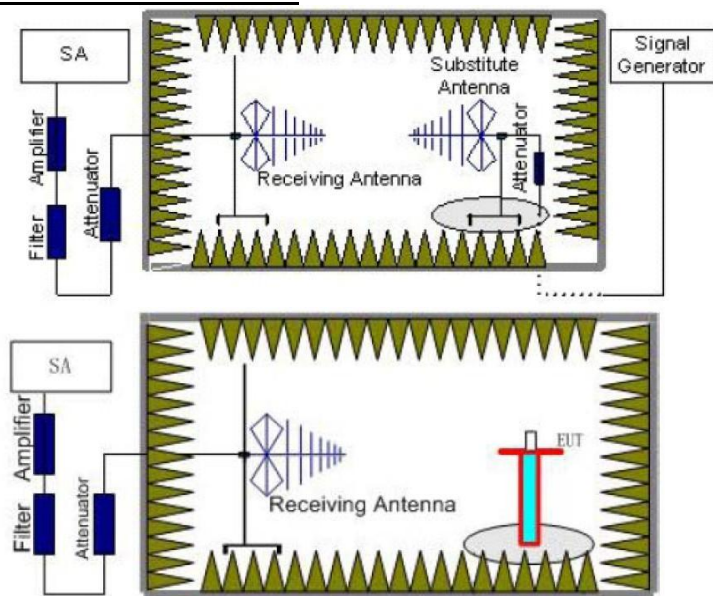
5.1. Carrier Output Power (ERP)

LIMIT

FCC Part FCC Part 95.567, FCC Part 2.1046

Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does **not exceed 0.5 Watts** and the ERP on channels 1 through 7 and 15 through 22 does **not exceed 2.0 Watts**.

TEST CONFIGURATION



TEST PROCEDURE

- 1) The measuring distance of at 3m shall be used for measurements
- 2) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- 3) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) The spectrum setting for Equivalent Isotropically Radiated Power (EIRP) is RBW = 100kHz, VBW = 300kHz. Detector Mode is Positive Peak
- 5) Record the field strength level of the EUT from the spectrum
- 6) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be moved height from 1m to 4m to find the highest radiation. Adjust the S.G. output level and repeat this step to get the same field strength level as the EUT
- 7) The EIRP level = S.G. output level(dBm) - TX cable(dB) + Substituted Antenna Gain(dBi)
- 8) The ERP level = EIRP - 2.15

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

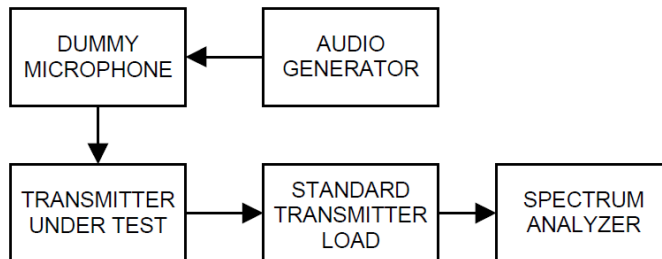
5.2. 99% Occupied Bandwidth & 26dB Bandwidth

LIMIT

FCC Part 95.573, FCC Part 2.1049

Each FRS transmitter type must be designed such that the occupied bandwidth **does not exceed 12.5 kHz**.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated
- 2) Spectrum set as follow:
Centre frequency = the nominal EUT channel center frequency,
The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient)
RBW = 1% to 5% of the anticipated OBW, VBW $\geq 3 \times \text{RBW}$, Sweep = auto,
Detector function = peak, Trace = max hold
- 3) Set 99% Occupied Bandwidth and 26dB Bandwidth
- 4) Measure and record the results in the test report.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.3. Emission Mask

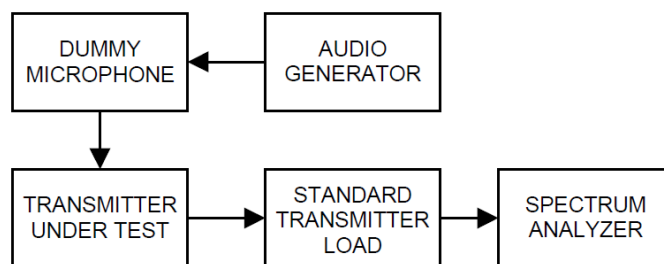
LIMIT

FCC Part 95.579(a)(1)(2)(3), FCC Part 2.1049

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits

- a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:
- (1) 25dB in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
 - (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
 - (3) $43 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Spectrum set as follow:
Centre frequency = fundamental frequency, RBW=300Hz, VBW=1000Hz, Sweep = auto,
Detector function = peak, Trace = max hold
- 3) Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line.
This is the 0dB reference for the measurement.
- 4) Apply Input Modulation Signal to EUT according to Section 4.2
- 5) Measure and record the results in the test report.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

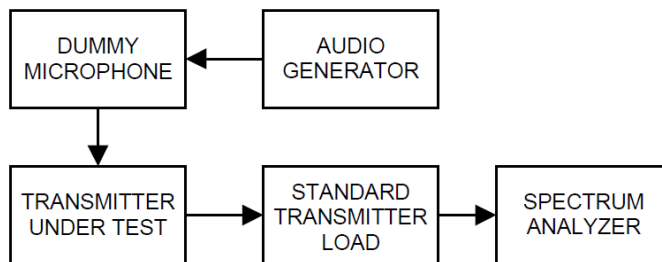
5.4. Modulation Limit

LIMIT

FCC Part 95.575, FCC Part 2.1047(b)

Each FRS transmitter type must be designed such that the peak frequency deviation does **not exceed 2.5kHz**, and the highest audio frequency contributing substantially to modulation must **not exceed 3.125kHz**.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 3) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
- 4) Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation.
- 5) Increase the level from the audio frequency generator by 20 dB in one step (rise time between the 10% and 90% points shall be 0.1 second maximum).
- 6) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level
- 7) With the level from the audio frequency generator held constant at the level obtained in step 4), slowly vary the audio frequency from 300 Hz to 3000 Hz and observe the steady-state deviation. Record the maximum deviation.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

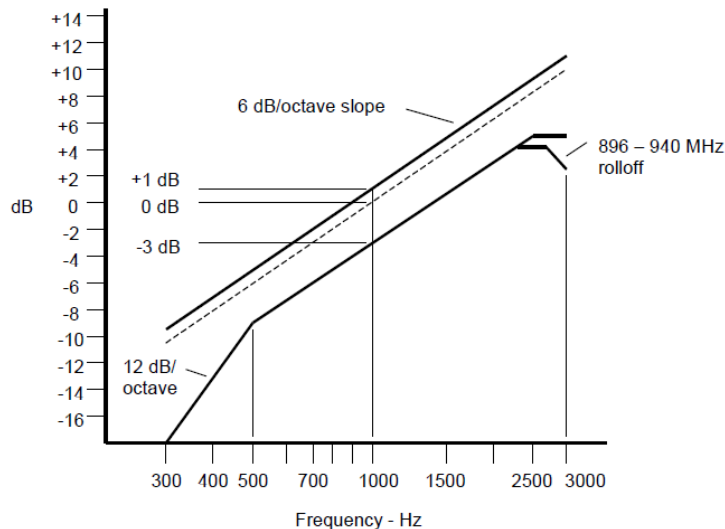
5.5. Audio Frequency Response

LIMIT

FCC Part 95.575, FCC Part 2.1047(a):

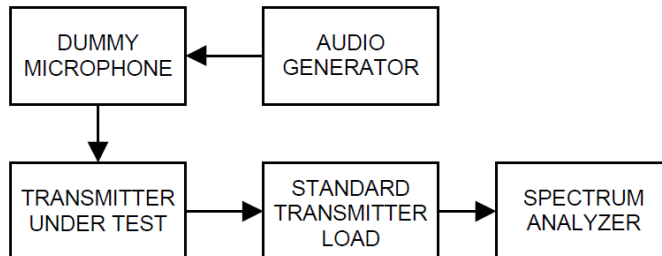
Each FRS transmitter type must be designed such that the peak frequency deviation does **not exceed 2.5kHz**, and the highest audio frequency contributing substantially to modulation must **not exceed 3.125kHz**.

Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.



An additional 6 dB per octave attenuation is allowed from 2500 Hz to 3000 Hz in equipment operating in the 25 MHz to 869 MHz range.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for 50 Hz to 15,000 Hz. Turn the de-emphasis function off.
- 3) Set the DMM to measure rms voltage.
- 4) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 5) Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- 6) Set the test receiver to measure rms deviation and record the deviation reading.
- 7) Record the DMM reading as V_{REF} .
- 8) Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- 9) Vary the audio frequency generator output level until the deviation reading that was recorded in step 6) is obtained.
- 10) Record the DMM reading as V_{FREQ} .
- 11) Calculate the audio frequency response at the present frequency as:

$$\text{audio frequency response} = 20 \log_{10} (V_{FREQ} / V_{REF})$$
- 12) Repeat steps 8) through 11) for all the desired test frequencies

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

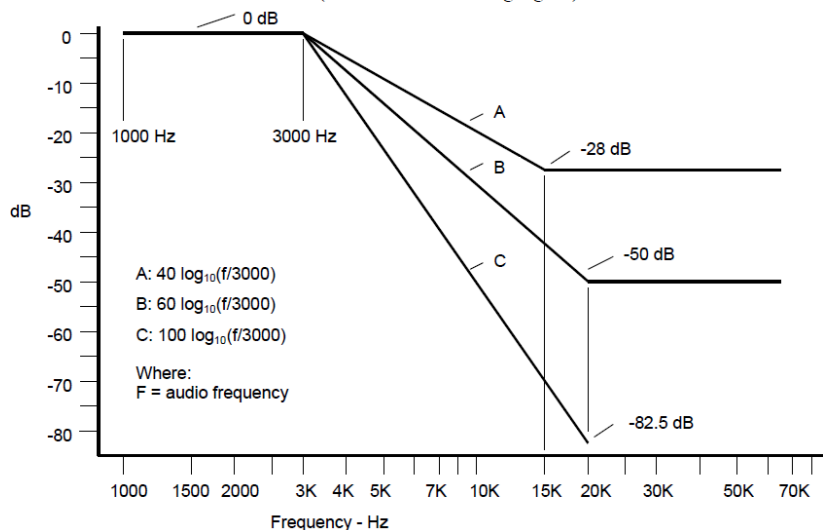
Refer to the appendix report

5.6. Audio Low Pass Filter Response

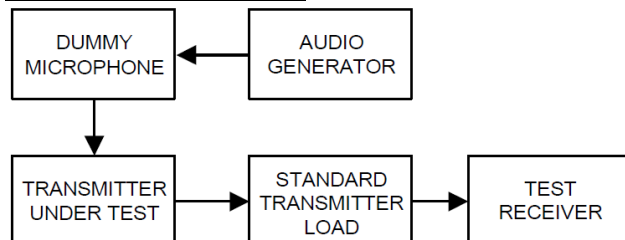
LIMIT

FCC Part 95.575), FCC Part 2.1047(a):

The filter must be between the modulation limiter and the modulated stage of the transmitter. At any frequency (f in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least $60 \log_{10}(f/3)$ dB greater than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB greater than the attenuation at 1 kHz.



TEST CONFIGURATION



TEST PROCEDURE

- 1) Configure the EUT as shown in figure .
- 2) Apply a 1000 Hz tone from the audio signal generator and adjust the level per manufacturer's specifications. Record the dB level of the 1000 Hz tone as LEV_{REF} .
- 3) Set the audio signal generator to the desired test frequency between 3000 Hz and the upper low pass filter limit. Record the dB level at the test frequency as LEV_{FREQ} .
- 4) Calculate the audio frequency response at the test frequency as:
 low pass filter response = $LEV_{FREQ} - LEV_{REF}$

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

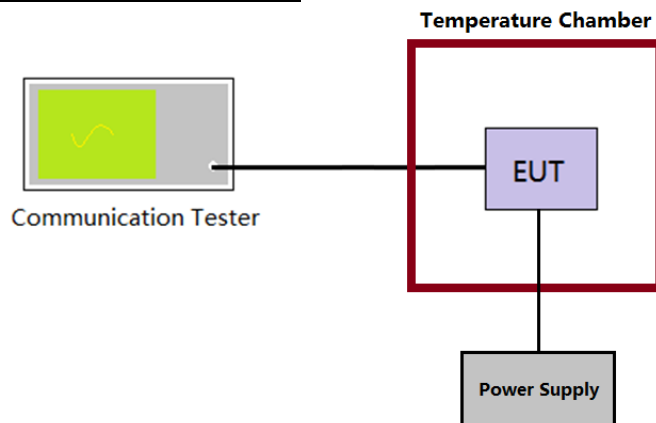
5.7. Frequency stability VS Temperature

LIMIT

FCC Part 95.565:

Each FRS transmitter type must be designed such that the carrier frequencies remain **within ± 2.5 parts-per-million** of the channel center frequencies specified in §95.563 during normal operating conditions.

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber.
- 3) Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency as MCF_{MHz} .
- 4) Calculate the ppm frequency error by the following:

$$\text{ppm error} = (MCF_{\text{MHz}} / ACF_{\text{MHz}} - 1) \times 10^6$$

where
 MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

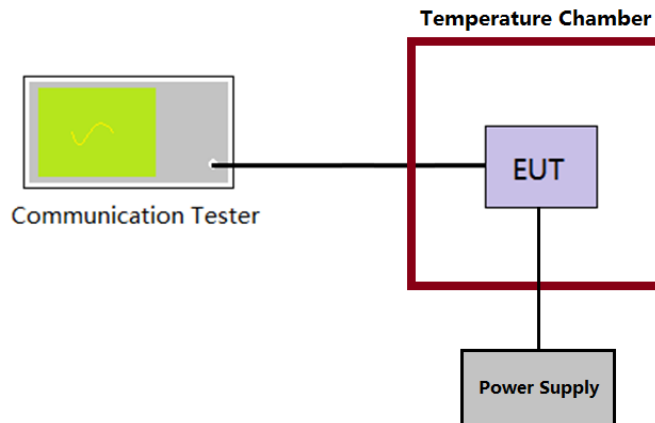
5.8. Frequency stability VS Voltage

LIMIT

FCC Part 95.565:

Each FRS transmitter type must be designed such that the carrier frequencies remain **within ± 2.5 parts-per-million** of the channel center frequencies specified in §95.563 during normal operating conditions.

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber at 25°C
- 3) Record the carrier frequency of the transmitter as MCF_{MHz}
- 4) Calculate the ppm frequency error by the following:

$$ppm\ error = (MCF_{MHz} / ACF_{MHz} - 1) * 10^6$$

where
 MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat the measurement of step 3 for the EUT according to the voltage requirements of "Normal voltage", "Extreme lower voltage", and "Extreme upper voltage" specified in section 4.4 of this report.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.9. Transmit Radiated Spurious Emission

LIMIT

FCC Part 95.579(a)(3):

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits

- a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:
- 1) 25dB in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
 - 2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
 - 3) $43 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.

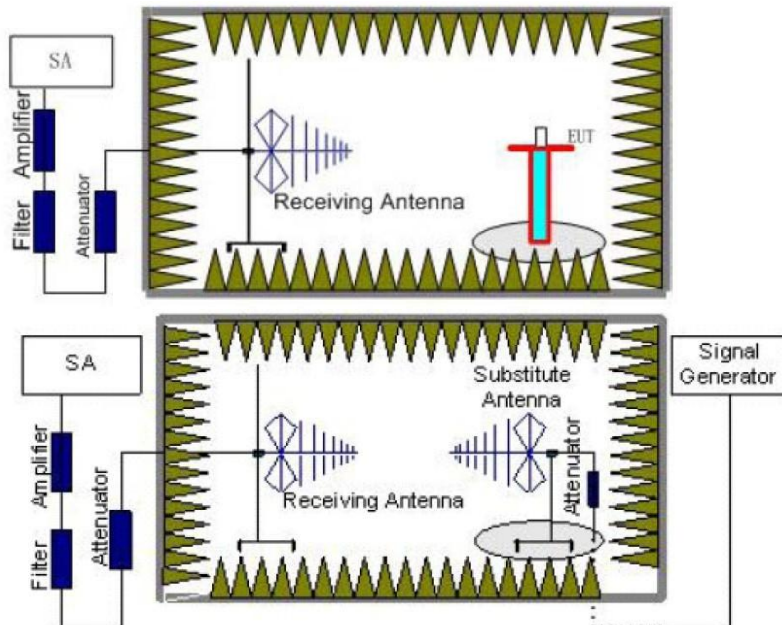
Note:

$$\text{Limit (dBm)} = \text{EL} - [43 + 10 \log(P)] = 10 \log(P \times 1000) - [43 + 10 \log(P)] = 10 \log(P) + 30 - 43 - 10 \log(P) = -13 \text{ dBm}$$

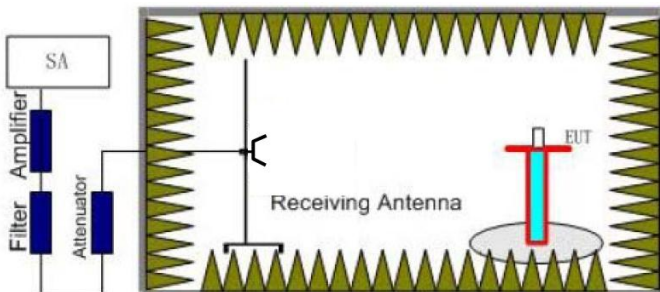
EL is the emission level of the Output Power expressed in dBm,

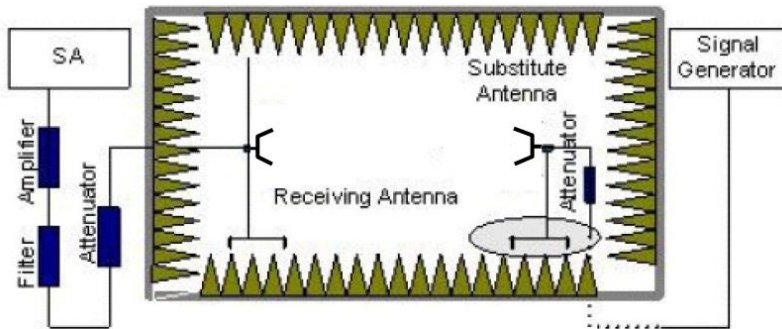
TEST CONFIGURATION

Below 1GHz:



Above 1GHz:





TEST PROCEDURE

- 1) The measuring distance of at 3m shall be used for measurements
- 2) The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The table was rotated 360 degrees to determine the position of the highest radiation
- 3) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) The spectrum setting as follow
 - Below 1 GHz: RBW=120kHz, VBW=300kHz, Sweep time=auto, Detector =peak, Trace=max hold;
 - Above 1GHz: RBW=1MHz, VBW=3MHz Sweep time=auto, Detector=peak, Trace=max hold
- 5) Record the field strength level of the EUT from the spectrum
- 6) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be moved height from 1m to 4m to find the highest radiation. Adjust the S.G. output level and repeat this step to get the same field strength level as the EUT
- 7) The EIRP level = S.G. output level(dBm)- TX cable(dB) + Substituted Antenna Gain(dBi)
- 8) Record the ERP value for below 1GHz, ERP value = EIRP-2.15; Record the EIRP for above 1GHz.

TEST MODE

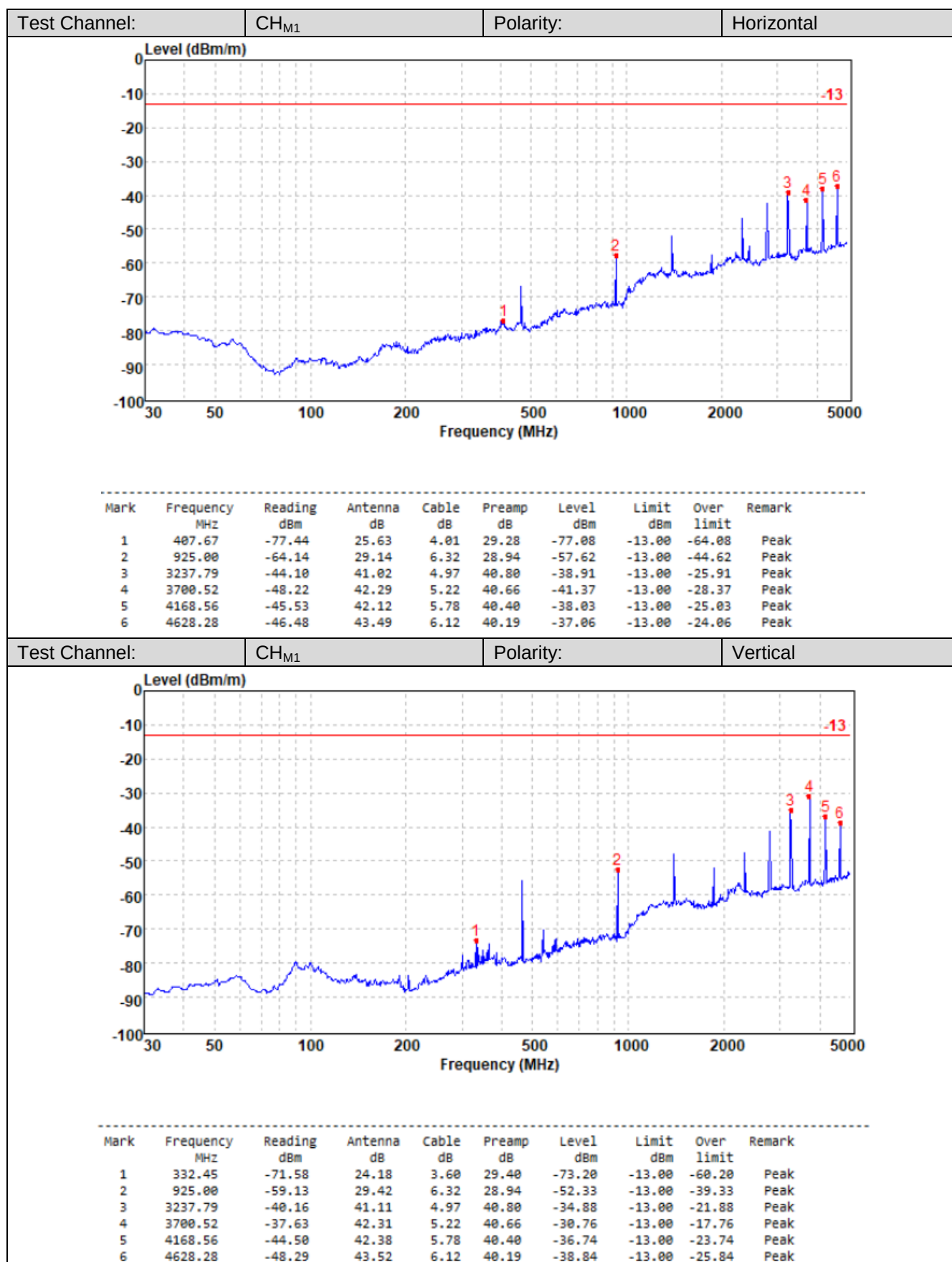
Refer to the section 4.2

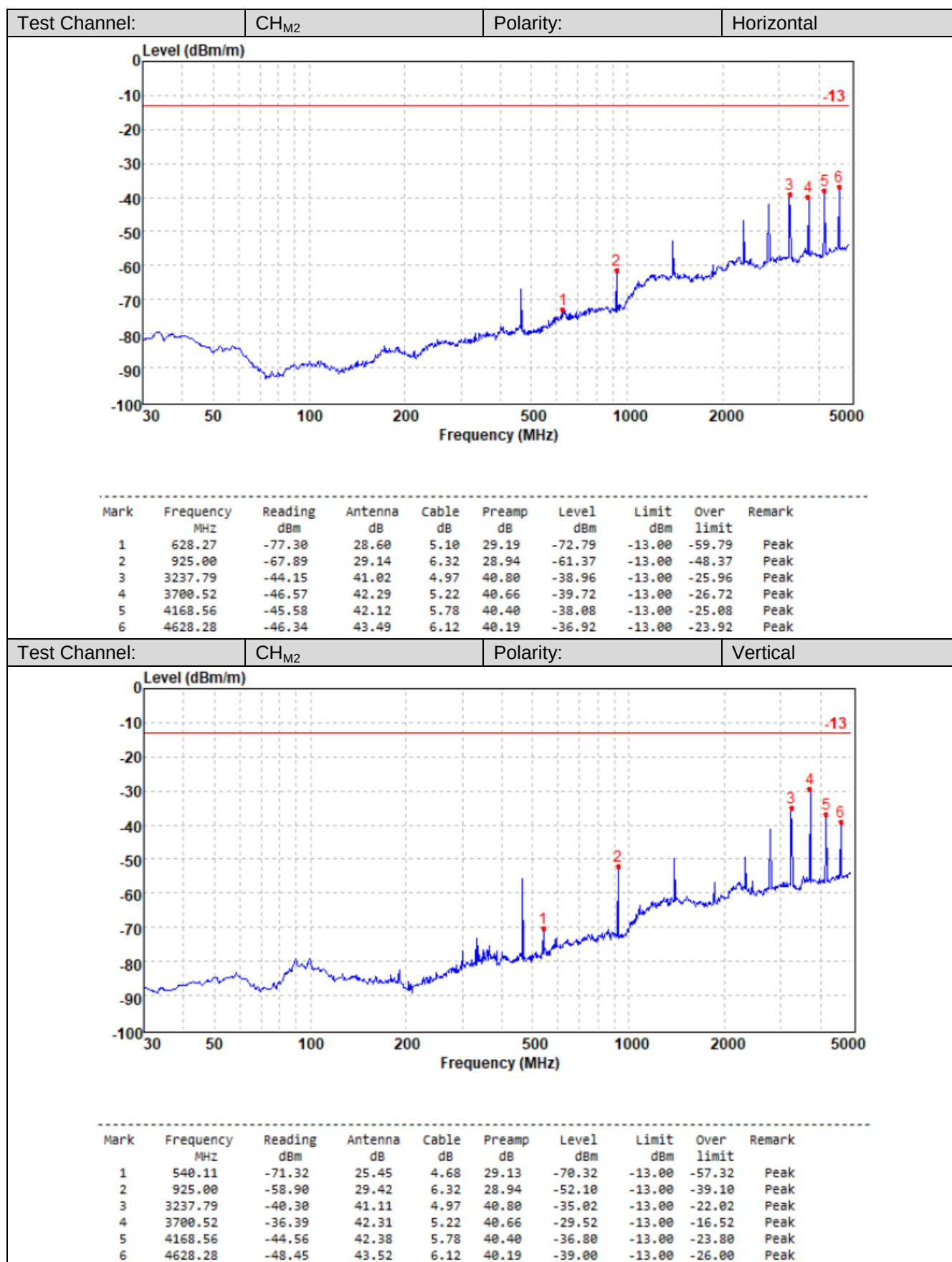
TEST RESULT

☒ Passed ☐ Not Applicable

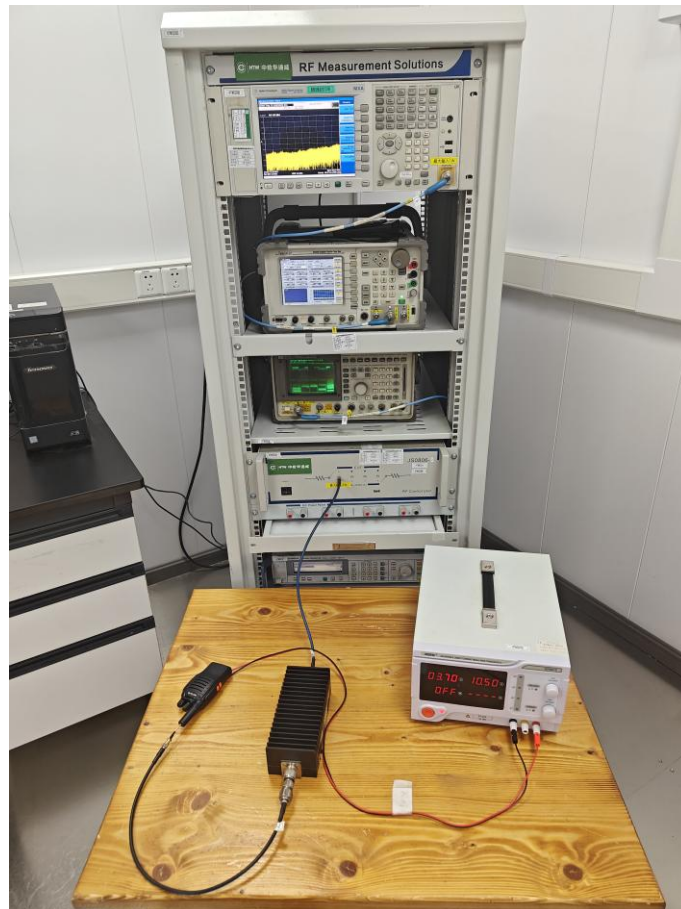
TEST DATA

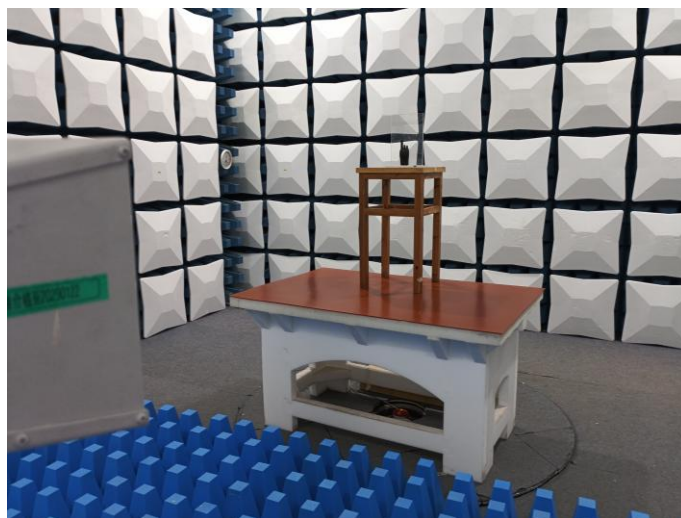
Refer to the below test data





6. TEST SETUP PHOTOS

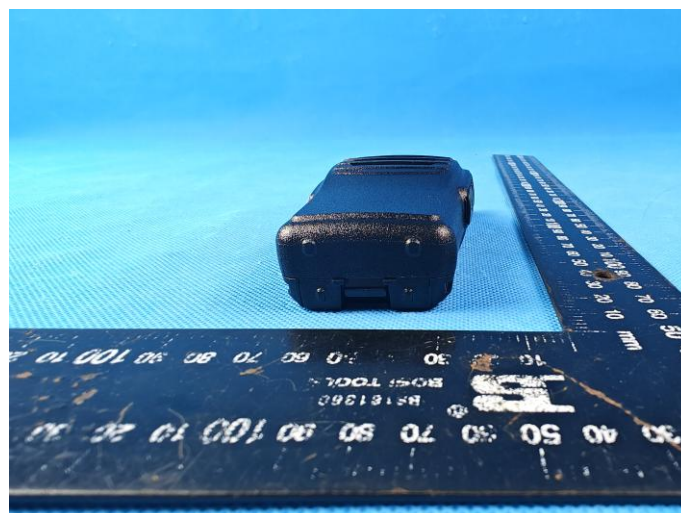


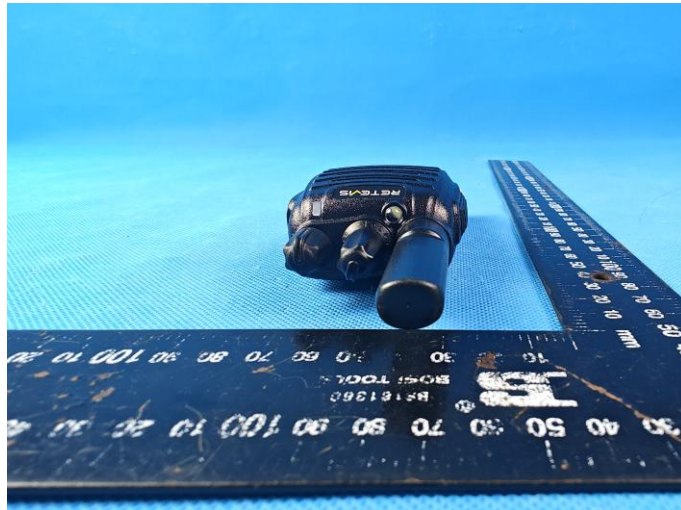


7. EXTERNAL AND INTERNAL PHOTOS

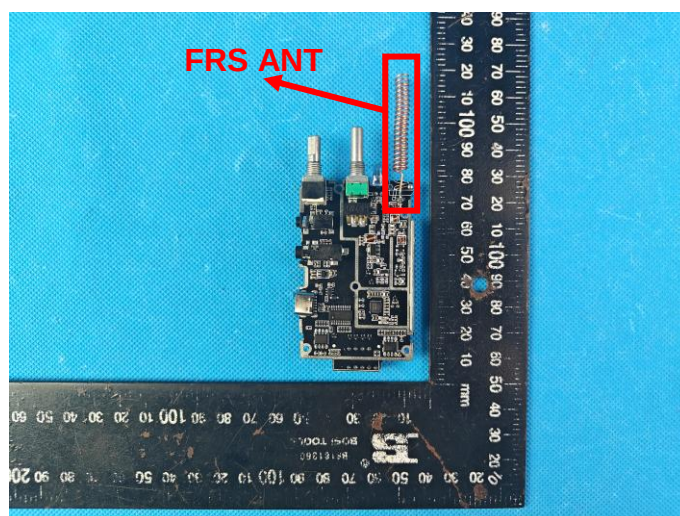
7.1. External Photos

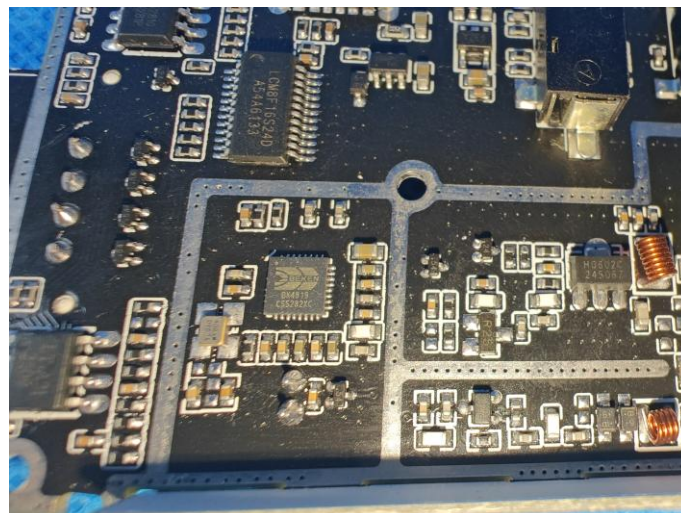
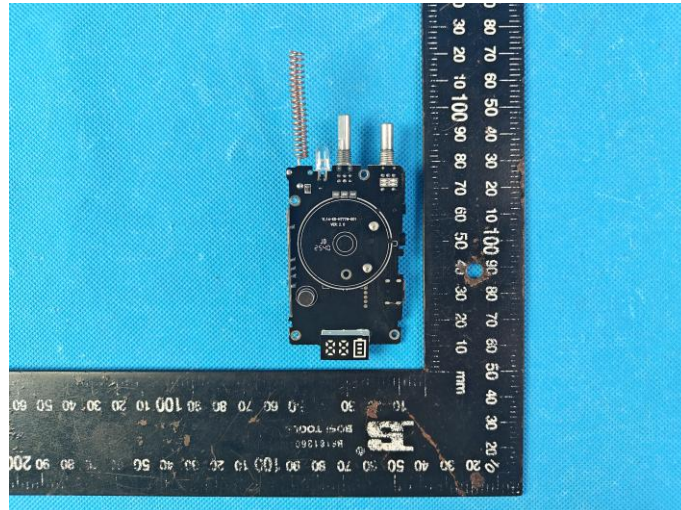






7.2. Internal Photos





8. APPENDIX REPORT

Project No.	SHT2607005306W		
Test sample No.	YPHT26070053004	Model No.	H777H
Start test date	2026/7/27	Finish date	2026/7/31
Temperature	25.9℃	Humidity	41%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhao</i>

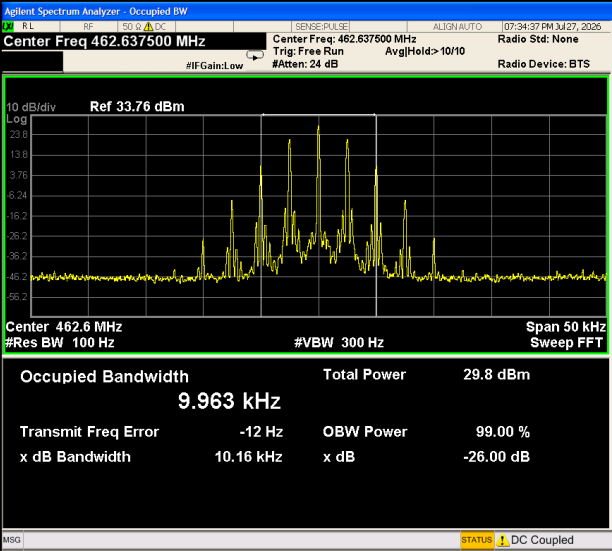
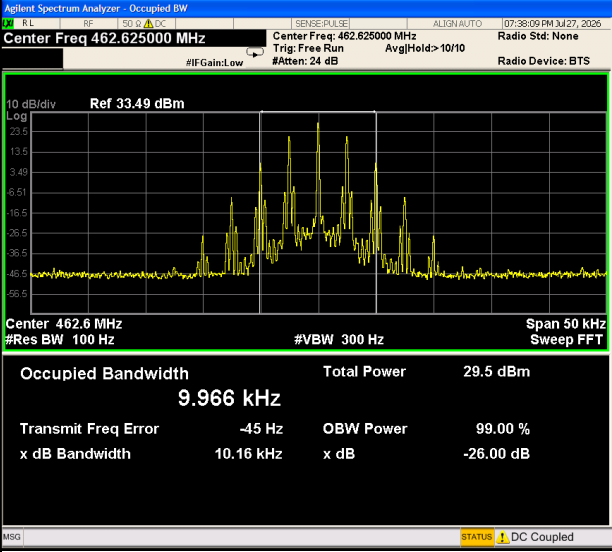
Appendix clause	Test Item	Test Result (PASS/FAIL)
A	Transmit Power (ERP)	PASS
B	99% Occupied Bandwidth & 26dB Bandwidth	PASS
C	Emission Mask	PASS
D	Modulation Limit	PASS
E	Audio Frequency Response	PASS
F	Audio Low Pass Filter Response	PASS
G	Frequency Stability Test & Temperature	PASS
H	Frequency Stability Test & Voltage	PASS

Appendix A: Transmit Power (ERP)

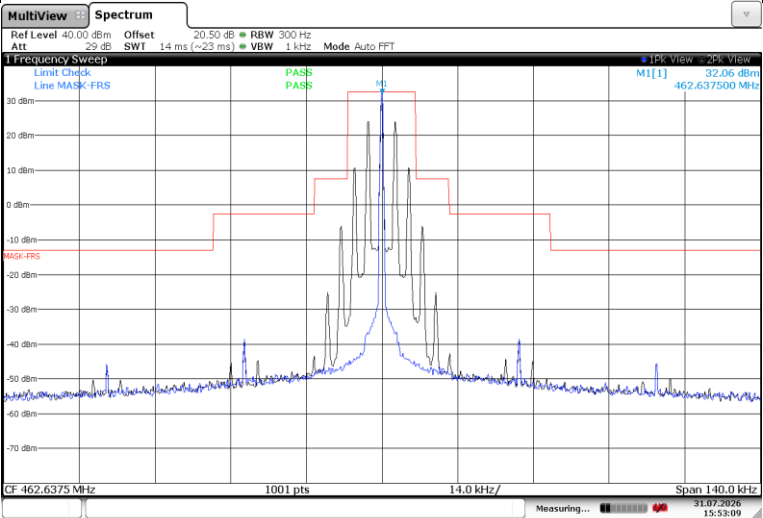
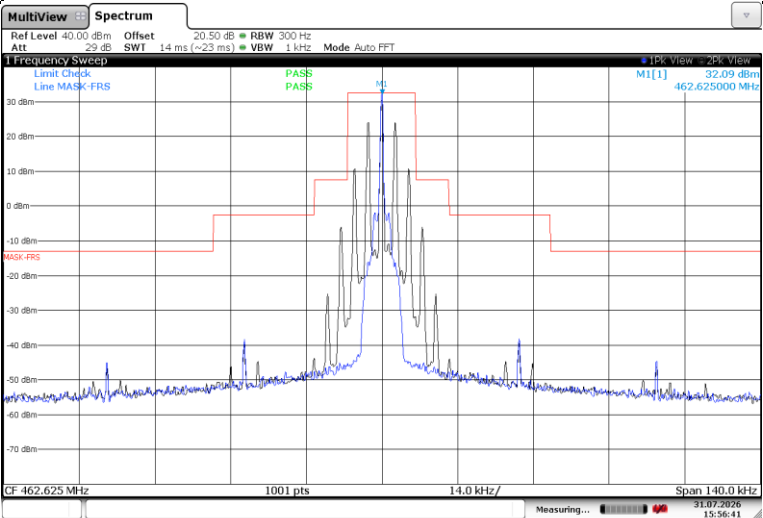
Test Mode	Modulation Type	Test Channel	Measured power (dBm)	Measured power (W)	Limit(W)	Result
TX-FRS	FM	CH _{M1}	29.92	0.98	≤2	PASS
TX-FRS	FM	CH _{M2}	30.22	1.05	≤2	PASS

Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth

Test Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-FRS	FM	CH _{M1}	9.963	10.16	≤12.5	PASS
TX-FRS	FM	CH _{M2}	9.966	10.16	≤12.5	PASS

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 462.637500 MHz Center Freq: 462.637500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 24 dB Ref 33.76 dBm Center 462.6 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.963 kHz Total Power 29.8 dBm Transmit Freq Error -12 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency 462.637500 MHz Center Freq 462.637500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-FRS	FM	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 462.625000 MHz Center Freq: 462.625000 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 24 dB Ref 33.49 dBm Center 462.6 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.966 kHz Total Power 29.5 dBm Transmit Freq Error -45 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency 462.625000 MHz Center Freq 462.625000 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled

Appendix C:Emission Mask

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	 MultiView Spectrum Ref Level 40.00 dBm Offset 20.50 dB RBW 300 Hz Att 29 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT 1 Frequency Sweep Limit Check Line MASK-FRS PASS PASS M1 M1[1] 32.06 dBm 462.637500 MHz CF 462.6375 MHz 1001 pts 14.0 kHz/ Span 140.0 kHz Date: 31 JUL 2026 15:53:09 Measuring... 31.07.2026 15:53:09
TX-FRS	FM	CH _{M2}	 MultiView Spectrum Ref Level 40.00 dBm Offset 20.50 dB RBW 300 Hz Att 29 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT 1 Frequency Sweep Limit Check Line MASK-FRS PASS PASS M1 M1[1] 32.09 dBm 462.625000 MHz CF 462.625 MHz 1001 pts 14.0 kHz/ Span 140.0 kHz Date: 31 JUL 2026 15:56:41 Measuring... 31.07.2026 15:56:41

Appendix D:Modulation Limit

Test Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak Frequency Deviation (Hz)				Limit (kHz)	Result
				300	1004	1500	2500		
TX-FRS	FM	CH _{M1}	-20	0.064	0.142	0.185	0.256	2.5	PASS
TX-FRS	FM	CH _{M1}	-15	0.095	0.224	0.298	0.431	2.5	PASS
TX-FRS	FM	CH _{M1}	-10	0.161	0.503	0.689	1.020	2.5	PASS
TX-FRS	FM	CH _{M1}	-5	0.267	0.866	1.212	1.789	2.5	PASS
TX-FRS	FM	CH _{M1}	0	0.438	1.515	2.071	2.170	2.5	PASS
TX-FRS	FM	CH _{M1}	5	0.756	2.166	2.154	2.183	2.5	PASS
TX-FRS	FM	CH _{M1}	10	1.325	2.139	2.101	2.175	2.5	PASS
TX-FRS	FM	CH _{M1}	15	2.143	2.110	2.079	2.202	2.5	PASS
TX-FRS	FM	CH _{M1}	20	2.149	2.103	2.083	2.197	2.5	PASS
TX-FRS	FM	CH _{M2}	-20	0.066	0.140	0.185	0.252	2.5	PASS
TX-FRS	FM	CH _{M2}	-15	0.095	0.224	0.298	0.429	2.5	PASS
TX-FRS	FM	CH _{M2}	-10	0.155	0.503	0.691	1.015	2.5	PASS
TX-FRS	FM	CH _{M2}	-5	0.260	0.867	1.215	1.791	2.5	PASS
TX-FRS	FM	CH _{M2}	0	0.435	1.510	2.066	2.168	2.5	PASS
TX-FRS	FM	CH _{M2}	5	0.755	2.165	2.153	2.177	2.5	PASS
TX-FRS	FM	CH _{M2}	10	1.315	2.134	2.100	2.173	2.5	PASS
TX-FRS	FM	CH _{M2}	15	2.148	2.100	2.083	2.194	2.5	PASS
TX-FRS	FM	CH _{M2}	20	2.154	2.106	2.084	2.201	2.5	PASS

Appendix D:Modulation Limit

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	The graph for CH_{M1} shows Peak Deviation (kHz) on the y-axis (0 to 3) versus Modulation Level (dB) on the x-axis (-20 to 20). A horizontal orange line with markers at 2.5 kHz represents the limit. Four curves represent different frequencies: 300 kHz (pink), 1004 kHz (blue), 1500 kHz (purple), and 2500 kHz (green). All curves start near 0 at -20 dB and rise as the modulation level increases, approaching the 2.5 kHz limit line. The 2500 kHz curve is the highest, followed by 1500 kHz, 1004 kHz, and 300 kHz is the lowest.
TX-FRS	FM	CH _{M2}	The graph for CH_{M2} shows Peak Deviation (kHz) on the y-axis (0 to 3) versus Modulation Level (dB) on the x-axis (-20 to 20). A horizontal orange line with markers at 2.5 kHz represents the limit. Four curves represent different frequencies: 300 kHz (pink), 1004 kHz (blue), 1500 kHz (purple), and 2500 kHz (green). All curves start near 0 at -20 dB and rise as the modulation level increases, approaching the 2.5 kHz limit line. The 2500 kHz curve is the highest, followed by 1500 kHz, 1004 kHz, and 300 kHz is the lowest.

Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-FRS	FM	CH _{M1}	100	-33.68			PASS
TX-FRS	FM	CH _{M1}	200	-33.63			PASS
TX-FRS	FM	CH _{M1}	300	-11.28	-17.84	-9.42	PASS
TX-FRS	FM	CH _{M1}	400	-8.48	-12.86	-6.93	PASS
TX-FRS	FM	CH _{M1}	500	-6.44	-9.00	-5.00	PASS
TX-FRS	FM	CH _{M1}	600	-4.79	-7.42	-3.42	PASS
TX-FRS	FM	CH _{M1}	700	-3.36	-6.09	-2.09	PASS
TX-FRS	FM	CH _{M1}	800	-1.98	-4.93	-0.93	PASS
TX-FRS	FM	CH _{M1}	900	-0.96	-3.91	0.09	PASS
TX-FRS	FM	CH _{M1}	1000	-0.02	-3.00	1.00	PASS
TX-FRS	FM	CH _{M1}	1200	1.35	-1.42	2.58	PASS
TX-FRS	FM	CH _{M1}	1400	2.47	-0.09	3.91	PASS
TX-FRS	FM	CH _{M1}	1600	3.39	1.07	5.07	PASS
TX-FRS	FM	CH _{M1}	1800	4.25	2.09	6.09	PASS
TX-FRS	FM	CH _{M1}	2000	5.10	3.00	7.00	PASS
TX-FRS	FM	CH _{M1}	2100	5.50	3.42	7.42	PASS
TX-FRS	FM	CH _{M1}	2200	5.84	3.83	7.83	PASS
TX-FRS	FM	CH _{M1}	2300	6.12	4.21	8.21	PASS
TX-FRS	FM	CH _{M1}	2400	6.30	4.58	8.58	PASS
TX-FRS	FM	CH _{M1}	2500	6.36	4.93	8.93	PASS
TX-FRS	FM	CH _{M1}	2600	6.29	4.59	9.27	PASS
TX-FRS	FM	CH _{M1}	2700	6.02	4.27	9.60	PASS
TX-FRS	FM	CH _{M1}	2800	5.52	3.95	9.91	PASS
TX-FRS	FM	CH _{M1}	2900	4.80	3.65	10.22	PASS
TX-FRS	FM	CH _{M1}	3000	3.77	3.35	10.51	PASS
TX-FRS	FM	CH _{M1}	3500	-6.83			PASS
TX-FRS	FM	CH _{M1}	4000	-29.22			PASS
TX-FRS	FM	CH _{M1}	4500	-33.84			PASS
TX-FRS	FM	CH _{M1}	5000	-33.80			PASS
TX-FRS	FM	CH _{M2}	100	-34.09			PASS
TX-FRS	FM	CH _{M2}	200	-33.89			PASS
TX-FRS	FM	CH _{M2}	300	-11.28	-17.84	-9.42	PASS
TX-FRS	FM	CH _{M2}	400	-8.43	-12.86	-6.93	PASS
TX-FRS	FM	CH _{M2}	500	-6.41	-9.00	-5.00	PASS
TX-FRS	FM	CH _{M2}	600	-4.79	-7.42	-3.42	PASS
TX-FRS	FM	CH _{M2}	700	-3.35	-6.09	-2.09	PASS
TX-FRS	FM	CH _{M2}	800	-1.99	-4.93	-0.93	PASS
TX-FRS	FM	CH _{M2}	900	-0.93	-3.91	0.09	PASS
TX-FRS	FM	CH _{M2}	1000	-0.02	-3.00	1.00	PASS
TX-FRS	FM	CH _{M2}	1200	1.34	-1.42	2.58	PASS
TX-FRS	FM	CH _{M2}	1400	2.46	-0.09	3.91	PASS
TX-FRS	FM	CH _{M2}	1600	3.39	1.07	5.07	PASS

Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-FRS	FM	CH _{M2}	1800	4.25	2.09	6.09	PASS
TX-FRS	FM	CH _{M2}	2000	5.10	3.00	7.00	PASS
TX-FRS	FM	CH _{M2}	2100	5.50	3.42	7.42	PASS
TX-FRS	FM	CH _{M2}	2200	5.84	3.83	7.83	PASS
TX-FRS	FM	CH _{M2}	2300	6.12	4.21	8.21	PASS
TX-FRS	FM	CH _{M2}	2400	6.29	4.58	8.58	PASS
TX-FRS	FM	CH _{M2}	2500	6.36	4.93	8.93	PASS
TX-FRS	FM	CH _{M2}	2600	6.29	4.59	9.27	PASS
TX-FRS	FM	CH _{M2}	2700	6.02	4.27	9.60	PASS
TX-FRS	FM	CH _{M2}	2800	5.52	3.95	9.91	PASS
TX-FRS	FM	CH _{M2}	2900	4.80	3.65	10.22	PASS
TX-FRS	FM	CH _{M2}	3000	3.76	3.35	10.51	PASS
TX-FRS	FM	CH _{M2}	3500	-6.84			PASS
TX-FRS	FM	CH _{M2}	4000	-29.15			PASS
TX-FRS	FM	CH _{M2}	4500	-33.79			PASS
TX-FRS	FM	CH _{M2}	5000	-33.85			PASS

Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	The plot for CH_{M1} shows the audio frequency response. The y-axis represents Response Attenuation (dB) from -25.00 to 15.00. The x-axis represents Frequency (Hz) on a logarithmic scale from 100 to 10000. A red line indicates the measured response, and a yellow line indicates the upper limit. The response follows the limit until about 3.125 kHz, then falls below the limit.
TX-FRS	FM	CH _{M2}	The plot for CH_{M2} shows the audio frequency response. The y-axis represents Response Attenuation (dB) from -25.00 to 15.00. The x-axis represents Frequency (Hz) on a logarithmic scale from 100 to 10000. A red line indicates the measured response, and a yellow line indicates the upper limit. The response follows the limit until about 3.125 kHz, then falls below the limit.

Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

Appendix F:Audio Low Pass Filter Response

Test Mode	Modulation Type	Test Channel	Audio Frequency(Hz)	Audio Frequency Response(dB)	Limit	Result
TX-FRS	FM	CH _{M1}	1000	-18.92	0	PASS
TX-FRS	FM	CH _{M1}	3000	-23.72	0	PASS
TX-FRS	FM	CH _{M1}	4000	-33.09	-7.5	PASS
TX-FRS	FM	CH _{M1}	5000	-44.69	-13.3	PASS
TX-FRS	FM	CH _{M1}	6000	-50.88	-18.1	PASS
TX-FRS	FM	CH _{M1}	8000	-55.73	-25.6	PASS
TX-FRS	FM	CH _{M1}	10000	-56.82	-31.4	PASS
TX-FRS	FM	CH _{M1}	15000	-56.82	-41.9	PASS
TX-FRS	FM	CH _{M1}	20000	-56.52	-50	PASS
TX-FRS	FM	CH _{M1}	30000	-56.73	-50	PASS
TX-FRS	FM	CH _{M1}	40000	-56.44	-50	PASS
TX-FRS	FM	CH _{M1}	50000	-57.07	-50	PASS
TX-FRS	FM	CH _{M1}	60000	-56.83	-50	PASS
TX-FRS	FM	CH _{M1}	70000	-57.60	-50	PASS
TX-FRS	FM	CH _{M1}	80000	-57.59	-50	PASS
TX-FRS	FM	CH _{M1}	90000	-57.97	-50	PASS
TX-FRS	FM	CH _{M1}	100000	-57.51	-50	PASS
TX-FRS	FM	CH _{M2}	1000	-18.84	0	PASS
TX-FRS	FM	CH _{M2}	3000	-23.68	0	PASS
TX-FRS	FM	CH _{M2}	4000	-32.99	-7.5	PASS
TX-FRS	FM	CH _{M2}	5000	-44.68	-13.3	PASS
TX-FRS	FM	CH _{M2}	6000	-50.79	-18.1	PASS
TX-FRS	FM	CH _{M2}	8000	-55.79	-25.6	PASS
TX-FRS	FM	CH _{M2}	10000	-56.74	-31.4	PASS
TX-FRS	FM	CH _{M2}	15000	-56.82	-41.9	PASS
TX-FRS	FM	CH _{M2}	20000	-56.41	-50	PASS
TX-FRS	FM	CH _{M2}	30000	-56.71	-50	PASS
TX-FRS	FM	CH _{M2}	40000	-56.52	-50	PASS
TX-FRS	FM	CH _{M2}	50000	-57.05	-50	PASS
TX-FRS	FM	CH _{M2}	60000	-56.90	-50	PASS
TX-FRS	FM	CH _{M2}	70000	-57.55	-50	PASS
TX-FRS	FM	CH _{M2}	80000	-57.58	-50	PASS
TX-FRS	FM	CH _{M2}	90000	-57.96	-50	PASS
TX-FRS	FM	CH _{M2}	100000	-57.53	-50	PASS

Appendix F:Audio Low Pass Filter Response

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	Audio Frequency Response (dB) Audio Frequency (Hz) Limit Audio Frequency Response (dB)
TX-FRS	FM	CH _{M2}	Audio Frequency Response (dB) Audio Frequency (Hz) Limit Audio Frequency Response (dB)

Appendix G:Frequency Stability Test & Temperature

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)		Limit (ppm)	Result
		Voltage	Temperature	CH _{M1}	CH _{M2}		
TX-FRS	FM	V _N	-30	-0.035	-0.023	±2.5	PASS
TX-FRS	FM	V _N	-20	-0.034	-0.023	±2.5	PASS
TX-FRS	FM	V _N	-10	-0.032	-0.023	±2.5	PASS
TX-FRS	FM	V _N	0	-0.033	-0.022	±2.5	PASS
TX-FRS	FM	V _N	10	-0.032	-0.022	±2.5	PASS
TX-FRS	FM	V _N	20	-0.032	-0.022	±2.5	PASS
TX-FRS	FM	V _N	30	-0.032	-0.023	±2.5	PASS
TX-FRS	FM	V _N	40	-0.032	-0.023	±2.5	PASS
TX-FRS	FM	V _N	50	-0.033	-0.023	±2.5	PASS

Appendix H:Frequency Stability Test & Voltage

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)		Limit (ppm)	Result
		Voltage	Temperature	CH _{M1}	CH _{M2}		
TX-FRS	FM	V _N	T _N	-0.032	-0.022	±2.5	PASS
TX-FRS	FM	V _L	T _N	-0.030	-0.022	±2.5	PASS
TX-FRS	FM	V _H	T _N	-0.034	-0.023	±2.5	PASS

-----End of Report-----