EMC TEST REPORT

Report No.: SET2019-15634

Product: hearing aid

Trade name: /

Model No. : JH-D26(HA70)

Applicant: HUIZHOU JINGHAO MEDICAL TECHNOLOGY CO,LTD

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055, P. R. China

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Query No. :KQ4T0SXI

Test Report

Product ..... :	hearing aid
Model No. ..... :	JH-D26(HA70)
Trade name ..... :	/
Applicant ..... :	HUIZHOU JINGHAO MEDICAL TECHNOLOGY CO,LTD
Applicant Address ..... :	FLOOR 6, HUICHENG INDUSTRY BUILDING,NO.9 HUIFENG DONG'ER ROAD ,ZHONGKAI HIGH-TECH ZONE, HUIZHOU,GUANGDONG,CHINA
Manufacturer ..... :	HUIZHOU JINGHAO MEDICAL TECHNOLOGY CO,LTD
Manufacturer Address ..... :	FLOOR 6, HUICHENG INDUSTRY BUILDING,NO.9 HUIFENG DONG'ER ROAD ,ZHONGKAI HIGH-TECH ZONE, HUIZHOU,GUANGDONG,CHINA
Test Standards ..... :	**EN 60118-13:2011** Electroacoustics – hearing aids –Part 13: Electromagnetic compatibility (EMC)
Test Result ..... :	PASS
Tested by ..... :	Xu Wei wei Dec. 20, 2019
Reviewed by ..... :	Jun Jing Dec. 20, 2019
Approved by ..... :	Zhao Yanni Dec. 20, 2019

CCIC Southern Testing Co.,Ltd. CCIC-SET

Table of Contents

1 General Information

1.1 Description of EUT

The EUT is a hearing aids.

For a more detailed features description about the EUT, please refer to the manufacture's specification or the User's Manual.

Applicant states the models are JH-D26(HA70), JH-D31, JH-D36, JH-D37, JH-118, JH-119, JH-129. Both of them are identical except the appearance, software functions and geographic differences.

1.2 Objective

Perform Electromagnetic Susceptibility (EMS) tests for IEC standard compliance.

1.3 Test Standards and Results

The EUT has been tested according to EN 60118-13:2011

EN 60118-13:2011	Electroacoustics - hearing aids - Part 13: Electromagnetic compatibility (EMC)

The results are as follow:

IMMUNITY		
Standard	**Test Type**	**Result**
EN 60118-13:2011	Radiated, radio frequency electromagnetic field immunity	PASS

1.4 List of Equipments Used

Description	**Manufacturer**	**Model No.**	**Cal. Date**	**Cal. Due Date**	**Serial No.**
Anechoic Chamber	Albatross	SAC-5MA C(EMC12.8 *6.8*6.4m)	Mar. 25, 2019	Mar. 24, 2023	A0304210
Signal Generator	ROHDE&SCHWARZ	SMB100A	Mar. 22, 2019	Mar. 22, 2020	A180502936
Power Amplifier	MILMEGA	80RF1000-250	Oct. 09, 2017	Oct. 08, 2020	A140901925
Power Amplifier	AR	25S1G4AM1	Oct. 09, 2017	Oct. 08, 2020	A0304248
Ultra wideband antenna	ROHDE&SCHWARZ	HL562	Jul. 14, 2017	Jul. 13, 2020	A0304224
Horn antenna	AR	AT4002A	Nov. 10, 2017	Nov. 09, 2020	---

NOTE: Equipments listed above have been calibrated and are in the period of validation.

1.5 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35ºC
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

2 Immunity Test

2.1 Performance Criteria

IRIL SPL shall not exceed 55 dB SPL.

2.2 Radiated, Radio Frequency Electromagnetic Field Immunity Test

2.2.1 Test Specification

Frequency Range:	800MHz – 960MHz, 1400MHz-2000MHz, 2000MHz-2480MHz
Field Strength:	Bystander compatibility:3.5V/m(800MHz – 960MHz); 2V/m(1400MHz-2000MHz); 1.5V/m(2000MHz-2480MHz)
Modulation:	1kHz sine wave, 80%, AM modulation
Frequency Step:	1% of fundamental
Polarity of Antenna	Horizontal and Vertical
Test Distance:	3m
Antenna Height:	1.5m
Dwell Time:	1 second for 1kHz modulation

2.2.2 Test Procedure

a. The testing was performed in a fully anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.

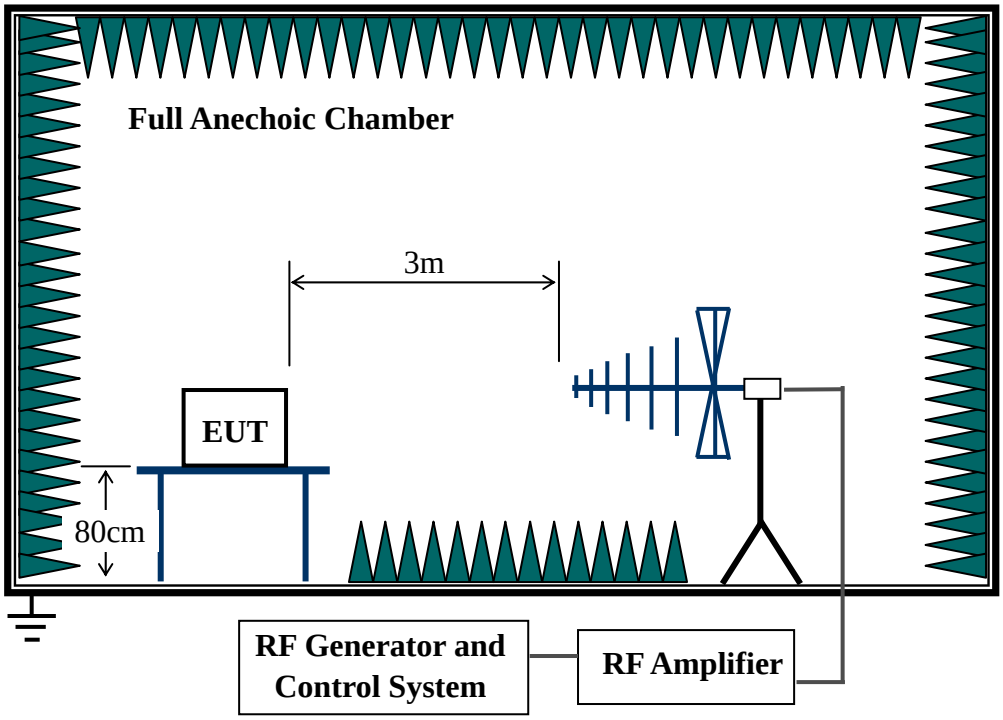
b. The frequency range is swept from 800 MHz -2480MHz with the signal 80% amplitude modulated with sine wave. In order to represent the worst case condition, the modulation frequencies shall be 1 kHz.

c. The rate of sweep did not exceed 1.5×10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.

d. The minimum dwell time shall be based upon the time required for the equipment or system to be exercised (if applicable) and adequately respond to the test signal. The dwell time shall be at least 1s for 1kHz modulation, and shall be no less than the respond time of the slowest responding function plus the setting time of the radiated RF immunity test system.

e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

2.2.3 Test Setup



For the actual test configuration, please refer to Appendix II： Photographs of the Test Configuration.

2.2.4 Test Result

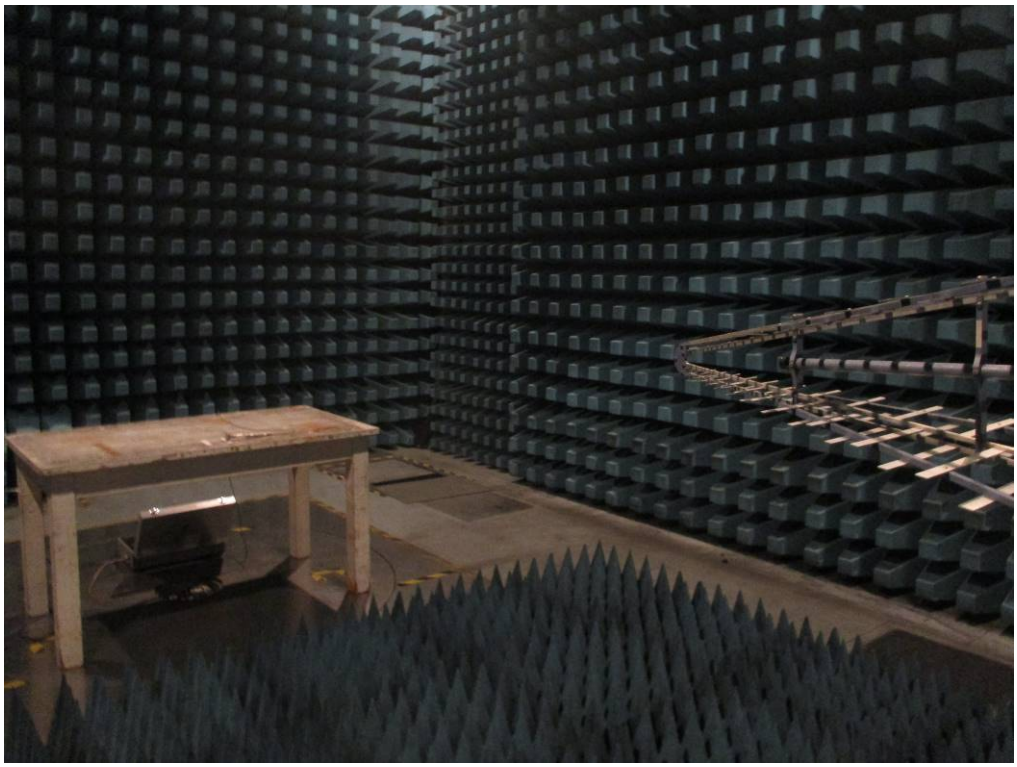
Test Conditions	Polarity	Azimuth	Result(dB)
800-960MHz, 3.5V/m 1kHz Sine 80% AM	V	0, 90, 180, 270	20.0
	H	0, 90, 180, 270	20.0
1400-2000MHz, 2V/m 1kHz Sine 80% AM	V	0, 90, 180, 270	19.3
	H	0, 90, 180, 270	19.5
2000-2480MHz 1.5V/m 1kHz Sine 80% AM	V	0, 90, 180, 270	19.7
	H	0, 90, 180, 270	18.7

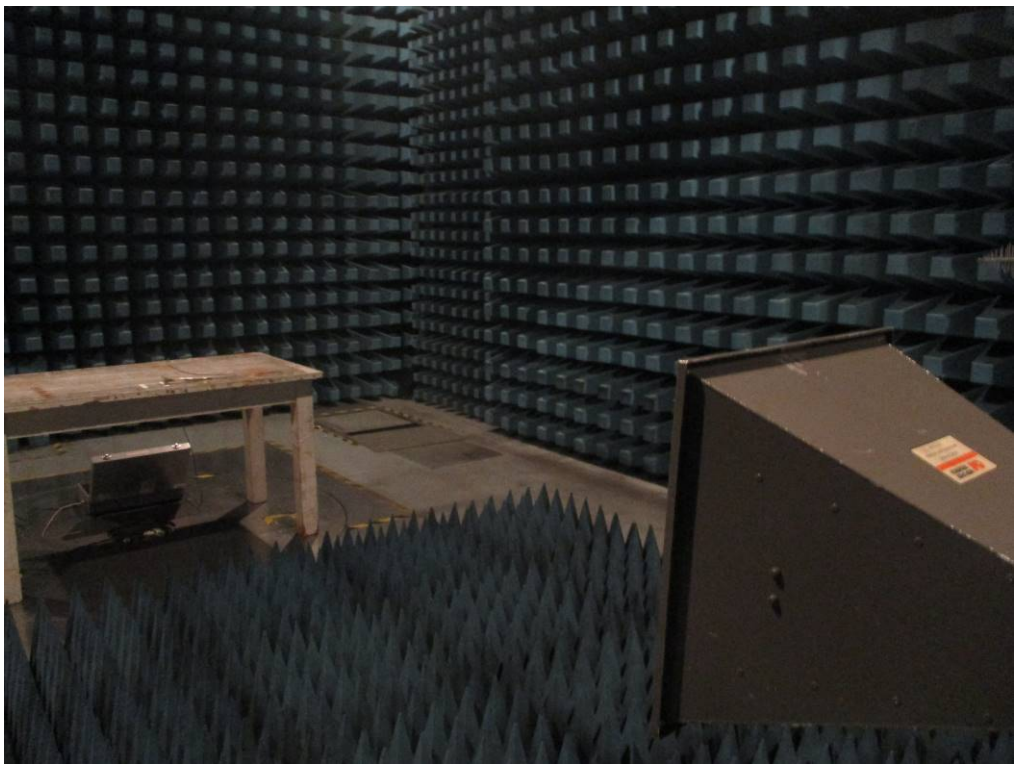
The EUT is complied with the Bystander compatibility.

Appendix I：Photographs of the EUT

Appendix II：Photographs of the Test Configuration

1. Radiated, radio frequency electromagnetic field immunity





End of Report

STATEMENT

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3. The test report is invalid if erased and corrected.
4. Test results of the report is valid to the test samplesif sampling by client.
5. “☆” item to be outside the scope of authorized by CNAS.
6. “☆” item to be outside the scope of CMA, the test method、data and results are available for reference..
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