



RF Exposure Evaluation

For

Guangzhou Shengyang Speaker Co.,Ltd

Wireless Microphone

Test Model: M8 Pro

Prepared for : Guangzhou Shengyang Speaker Co.,Ltd
Address : No.4 Huai Road, Huadu District, Guangzhou City, No.4 Self-compiled Building 4(Phase II Plant) No.01 Plant(2 Floors)

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 18, 2025
Number of tested samples : 2
Sample No : A250528068-1, A250528068-2
Serial number : Prototype
Date of Test : June 18, 2025 ~ July 04, 2025
Date of Report : July 07, 2025





RF Exposure Evaluation	
Report Reference No.	LCSA05285136EB
Date of Issue	July 07, 2025
Testing Laboratory Name	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name	Guangzhou Shengyang Speaker Co.,Ltd
Address	No.4 Huai Road, Huadu District, Guangzhou City, No.4 Self-compiled Building 4(Phase II Plant) No.01 Plant(2 Floors)
Test Specification	
Standard	FCC KDB publication 447498 D01 General RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093
Test Report Form No.	LCSEMC-1.0
TRF Originator	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	Dated 2011-03
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EUT Description.	Wireless Microphone
Trade Mark	MICBNIB
Test Model	M8 Pro
Ratings	DC 3.7V by Lithium Battery
Result	Positive

Compiled by:

Jack Liu/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager





RF Exposure Evaluation

Test Report No. : LCSA05285136EB	<u>July 07, 2025</u> Date of issue
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Test Model.....	: M8 Pro
EUT.....	: Wireless Microphone
Applicant.....	: Guangzhou Shengyang Speaker Co.,Ltd
Address.....	: No.4 Huai Road, Huadu District, Guangzhou City, No.4 Self-compiled Building 4(Phase II Plant) No.01 Plant(2 Floors)
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Guangzhou Xingsheng Audio Co.,Ltd
Address.....	: No.4 Huai Road, Huadu District, Guangzhou City, No.4 Self-compiled Building 4(Phase II Plant) No.01 Plant(2 Floors)
Telephone.....	: /
Fax.....	: /
Factory.....	: Guangzhou Xingsheng Audio Co.,Ltd
Address.....	: No.4 Huai Road, Huadu District, Guangzhou City, No.4 Self-compiled Building 4(Phase II Plant) No.01 Plant(2 Floors)
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Revision	Issue Date	Revision Content	Revised By
000	July 07, 2025	Initial Issue	--





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1. Product Information

Product name	Wireless Microphone
Test Model	M8 Pro
Power supply	DC 3.7V by Lithium Battery
Hardware Version	/
Software Version	/
Frequency Range	653.1MHz~656.9MHz
Channel Number	39 Channels
Modulation Type	pi/4 DQPSK
Antenne Description	Internal Antenna, 0dBi(Max.)
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Portable Device

2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: “Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 “

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \cdot \sqrt{f \text{ (GHz)}} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.





3.Refer evaluation method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

4.Power Results

Frequency (MHz)	Test Mode	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
653.1	pi/4 DQPSK	H	11.243	13.01	1.767	PK
653.1	pi/4 DQPSK	V	11.156	13.01	1.854	PK
655.0	pi/4 DQPSK	H	11.235	13.01	1.775	PK
655.0	pi/4 DQPSK	V	11.089	13.01	1.921	PK
656.9	pi/4 DQPSK	H	11.136	13.01	1.874	PK
656.9	pi/4 DQPSK	V	11.118	13.01	1.892	PK

5.Manufacturing tolerance

pi/4 DQPSK Channel(MHz) (Peak)	
Frequency	656.9
Target (dBm)	11
Tolerance ±(dB)	1.0

6.Evaluation Results

Band/Mode	f (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
pi/4 DQPSK	0.6569	5	12	15.8489	2.5691< 3.0	Yes

Remark:

1. Output power including tune up tolerance;
2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 of KDB447498 is applied to determine SAR test exclusion.

7.Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.



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Scan code to check authenticity



8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.



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9.Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	$\pm 3.10\text{dB}$	(1)
	:	30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
	:	200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
	:	1GHz~26.5GHz	$\pm 3.80\text{dB}$	(1)
	:	26.5GHz~40GHz	$\pm 3.90\text{dB}$	(1)
Conduction Uncertainty	:	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance	:	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

.....THE END OF REPORT.....

