



FCC RF Exposure Evaluation

For

Guangzhou aVoice Electronic Technology Co., Ltd.

Headset microphone

Test Model: YS-M11

Prepared for : Guangzhou aVoice Electronic Technology Co., Ltd.
Address : Room 0293, Room 203, No. 1 Xinghua Road, Tianhe District,
Guangzhou City

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : February 18, 2025
Number of tested samples : 2
Sample No : A250217104-1, A250217104-2
Serial number : Prototype
Date of Test : February 18, 2025 ~ March 25, 2025
Date of Report : March 26, 2025



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**FCC RF Exposure Evaluation****Report Reference No.** : LCSA01205121EB**Date of Issue** : March 26, 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 aVoice Electronic Technology Co., Ltd.**Address** : Room 0293, Room 203, No. 1 Xinghua Road, Tianhe District, Guangzhou City**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. : TRF-4-E-215 A/0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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EUT Description : Headset microphone**Trade Mark** : N/A**Test Model** : YS-M11**Ratings** : Input: DC 5V

Battery: 3.7V 450mAh

Result : Positive**Compiled by:**

Diamond Lu/ Administrator

Supervised by:

Jack Liu/ Technique principal

Approved by:

Gavin Liang/ Manager



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FCC RF Exposure Evaluation

Test Report No. : LCSA01205121EB	<u>March 26, 2025</u> Date of issue
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Test Model.....	: YS-M11
EUT.....	: Headset microphone
Applicant.....	: Guangzhou aVoice Electronic Technology Co., Ltd.
Address.....	: Room 0293, Room 203, No. 1 Xinghua Road, Tianhe District, Guangzhou City
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Manufacturer.....	: Guangzhou aVoice Electronic Technology Co., Ltd.
Address.....	: Room 0293, Room 203, No. 1 Xinghua Road, Tianhe District, Guangzhou City
Telephone.....	: /
Fax.....	: /
Factory.....	: Guangzhou aVoice Electronic Technology Co., Ltd.
Address.....	: Room 0293, Room 203, No. 1 Xinghua Road, Tianhe District, Guangzhou City
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.



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Revision History

Revision	Issue Date	Revision Content	Revised By
000	March 26, 2025	Initial Issue	---





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1.... Product Information

Product name	Headset microphone
Test Model	YS-M11
Ratings	Input: DC 5V Battery: 3.7V 450mAh
Hardware Version	/
Software Version	/
UHF	
Frequency Range	657.5MHz~662MHz
Modulation Type	1/4πDQPSK
Antenne Description	Internal antenna, -0.4dBi (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 "

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

- 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.... Conducted Power Results

Test Mode	Frequency (MHz)	Measured Maximum Peak Power(dBm)	Limits (dBm)	Verdict
1/4πDQPSK	657.50	0.292	24	PASS
1/4πDQPSK	659.50	-0.157	24	PASS
1/4πDQPSK	662.00	-0.380	24	PASS

5.... Manufacturing tolerance

pi/4 DQPSK (Peak)			
Frequency(MHz)	657.50	659.50	662.00
Target (dBm)	0	0	0
Tolerance ±(dB)	1.0	1.0	1.0

6.... Evaluation Results

Band/Mode	f (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
1/4πDQPSK	0.65750	5	1.0	1.2589	0.2042< 3.0	Yes
1/4πDQPSK	0.65950	5	1.0	1.2589	0.2045< 3.0	Yes
1/4πDQPSK	0.66200	5	1.0	1.2589	0.2049< 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.

8.... Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

Test Firm Registration Number: 254912

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.





9.... Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	$\pm 0.57\text{dB}$	(1)

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

