



## RF Exposure Evaluation

For

DONGGUAN CITYSING-E ELECTRONICS TECHNOLOGY CO.,LTD

wireless microphone

Test Model: ZQS MIC

Additional Model No.: Please Refer to Page 6

Prepared for : DONGGUAN CITYSING-E ELECTRONICS TECHNOLOGY CO.,LTD

Address : No.5,Jingsheng Road,Langxia Village,Qiaotou Town,Dongguan City,Guangdong Province,China

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 24, 2025

Number of tested samples : 2

Sample No : A250623056-1, A250623056-2

Serial number : Prototype

Date of Test : June 24, 2025 ~ July 17, 2025

Date of Report : July 18, 2025



**RF Exposure Evaluation****Report Reference No. .... : LCSA06205077EB**

Date of Issue..... : July 18, 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, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □**Applicant's Name..... : DONGGUAN CITYSING-E ELECTRONICS TECHNOLOGY  
CO.,LTD**Address..... : No.5,Jingsheng Road,Langxia Village,Qiaotou Town,Dongguan  
City,Guangdong Province,China**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

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**EUT Description..... : wireless microphone**

Trade Mark..... : N/A

Test Model ..... : ZQS MIC

Ratings..... : DC 3.7V by Rechargeable Li-ion Battery, 800mAh

Result ..... : **PASS****Compiled by:**

Nick Peng/ Administrator

**Supervised by:**

Jack Liu/ Technique principal

**Approved by:**

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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## RF Exposure Evaluation

Test Report No. : <b>LCSA06205077EB</b>	<u>July 18, 2025</u> Date of issue
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Test Model.....	: ZQS MIC
EUT.....	: wireless microphone
<b>Applicant.....</b>	<b>: DONGGUAN CITYSING-E ELECTRONICS TECHNOLOGY CO.,LTD</b>
Address.....	: No.5,Jingsheng Road,Langxia Village,Qiaotou Town,Dongguan City,Guangdong Province,China
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: DONGGUAN CITYSING-E ELECTRONICS TECHNOLOGY CO.,LTD</b>
Address.....	: No.5,Jingsheng Road,Langxia Village,Qiaotou Town,Dongguan City,Guangdong Province,China
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: DONGGUAN CITYSING-E ELECTRONICS TECHNOLOGY CO.,LTD</b>
Address.....	: No.5,Jingsheng Road,Langxia Village,Qiaotou Town,Dongguan City,Guangdong Province,China
Telephone.....	: /
Fax.....	: /

<b>Test Result</b>	<b>PASS</b>
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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 18, 2025	Initial Issue	--





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## 1. Product Information

Product name	wireless microphone
Test Model	ZQS MIC
Additional Model No.	ZQS1337, ZQS-K03, ZQSM1, ZQSM2, ZQSM3, ZQSM5, ZQSM6, ZQSM7, ZQS-1M501, ZQS-1M503, ZQS-2M503, ZQS-2M502, ZQS-1M505, ZQS-2M506
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power supply	DC 3.7V by Rechargeable Li-ion Battery, 800mAh
Hardware Version	/
Software Version	/
Frequency Range	560MHz~589.5MHz
Channel Number	31 Channels
Modulation Type	FM
Antenne Description	Internal Antenna, 0dBi(Max.)
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Portable Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.



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## 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.<sup>22</sup> 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.<sup>23</sup> “

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f \text{ (GHz)}}] \leq 3.0$$

for 1-g SAR and  $\leq 7.5$  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  $\leq 50$  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
FM	560	10.952	24	PASS



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## 5.Manufacturing tolerance

FM Channel(MHz) (Peak)	
Frequency	560
Target (dBm)	10.0
Tolerance $\pm$ (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		
FM	0.560	5	11	12.5893	1.8842< 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.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

## 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.....

