Page 1 of 9 FCC ID:2BLPX-WM250528

RF Exposure Evaluation

For

Dongguan Guangzheng Network Technology Co., Ltd

Bluetooth light strip

Test Model: WM250528

Additional Model No.: Please Refer to Page 6

Prepared for : Dongguan Guangzheng Network Technology Co., Ltd

Address : Room 2001, Building 51, Zhonghui Xiangzhang Oasis, No. 98,

Dongcheng Road, Zhangmutou Town, Dongguan City, Guangdong

Report No.: LCSA05215291EB

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 05, 2025

Number of tested samples : 2

Sample No. : A250604036-1, A250604036-2

Serial number : Prototype

Date of Test : June 05, 2025 ~ June 12, 2025

Date of Report : June 13, 2025



Shenzhen LCS Compliance Testing Laboratory Ltd.

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FCC ID:2BLPX-WM250528

RF Exposure Evaluation

Report Reference No.: LCSA05215291EB

Date of Issue.....: June 13, 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

Applicant's Name.....: Dongguan Guangzheng Network Technology Co., Ltd

Address: Room 2001, Building 51, Zhonghui Xiangzhang Oasis, No. 98,

Dongcheng Road, Zhangmutou Town, Dongguan City, Guangdong

Report No.: LCSA05215291EB

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 2.1091

Test Report Form No.....: TRF-4-E-214 A/0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2011-03

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EUT Description.....: Bluetooth light strip

Trade Mark.....: N/A

Test Model: WM250528

Ratings.....: Please Refer to Page 6

Result: PASS

Compiled by:

Supervised by:

Approved by:

Jack Liu/Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



Report No.: LCSA05215291EB



RF Exposure Evaluation

Test Report No. : LCSA05215291EB

June 13, 2025

Date of issue

Test Model..... : WM250528 : Bluetooth light strip : Dongguan Guangzheng Network Technology Co., Ltd Applicant..... : Room 2001, Building 51, Zhonghui Xiangzhang Oasis, Address..... No. 98, Dongcheng Road, Zhangmutou Town, Dongguan City, Guangdong Province, China Telephone..... Fax..... Manufacturer.....:: Guangzhou Woming Lighting co., Ltd : No.56, The Second Nanyun Road, Scientech Park, Address..... Guangzhou Economic and Technology District, Guangdong, China Telephone..... Factory..... : Guangzhou Woming Lighting co., Ltd Address...... : No.56, The Second Nanyun Road, Scientech Park, Guangzhou Economic and Technology District, Guangdong, China Telephone..... Fax.....

Test Result	PASS

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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FCC ID:2BLPX-WM250528



	Revisio		
Report Version	Issue Date	Revision Content	Revised By
000	June 13, 2025	Initial Issue	

Report No.: LCSA05215291EB

















Shenzhen LCS Compliance Testing Laboratory Ltd.

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1. Product Information

EUT : Bluetooth light strip

Test Model : WM250528

Additional Model No. : WM250606, BH138, BH152, BH194, HT248

Model Declaration : PCB board, structure and internal of these model(s) are the same, So

no additional models were tested

Power Supply : Input: 5.0V--2A

For Adapter Input:100-240V~, 50/60Hz, 0.5A

Output: 5.0V --- 2A

Hardware Version : / Software Version : /

Bluetooth

: 2402MHz~2480MHz

Frequency Range

: 40 channels for Bluetooth V5.2 (DTS) **Channel Number**

: 2MHz for Bluetooth V5.2 (DTS) **Channel Spacing** Modulation Type : GFSK for Bluetooth V5.2 (DTS)

Bluetooth Version : V5.2

Antenna Description : PCB Antenna, 0dBi(Max.)

Exposure category : General population/uncontrolled environment

EUT Type : Production Unit **Device Type** : Mobile Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna

report provided by the customer.





2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

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In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3. 1 Refer Evaluation Method

ANSI C95.1-2019: IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

FCC KDB publication 447498 D01 General 1 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 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.

3. 2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
0.3 - 3.0	614	1.63	(100)_*	6
3.0 - 30	1842/f	4.89/f	(900/f ²)*	6
30 - 300	61.4	0.163	` 1.0 ´	6
300 – 1500	/	/	f/300	6
1500 - 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)
100	100			
0.3 - 3.0	614	1.63	(100)_*	30
3.0 - 30	824/f	2.19/f	(180/f ²)*	30
30 - 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz



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^{*=}Plane-wave equivalent power density

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4. MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal Antenna	PCB Antenna	2400-2500 MHz	0dBi	BT Antenna

6. Conducted Power

[BLE 1M]

	Mode	Channal	Frequency	Peak Conducted Output Power			
	iviode	Channel	(MHz)	(dBm)			
		0	2402	0.96			
	GFSK	19	2440	0.82			
10.00		39	2480	-0.23			

7. Manufacturing Tolerance

BLE 1M (Peak)					
Channel 0 Channel 19 Channel 39					
Target (dBm)	0	0	0		
Tolerance ± (dB)	1.0	1.0	1.0		

8. Measurement Results

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

	Output	power	Antenna	Antenna	MPE	MPE
Modulation Type	dDm	m\//	Gain	Gain	(mW/cm2)	Limits
	dBm	mW	(dBi)	(linear)		(mW/cm2)
BLE	1.0	1.2589	0	1.0000	0.0003	1.0000

Remark:

- 1. Output power including tune-up tolerance;
- 2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
- 3. MPE evaluate distance is 20cm from user manual provide by manufacturer.



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9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

10. 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.

11. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	±0.57dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

---THE END OF REPORT-----



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