



RF Exposure Evaluation

For

Light Emission Technology, Ltd.

MR16

Test Model: E9577

Prepared for : Light Emission Technology, Ltd.
Address : 7F, Idee Monto Industrial Park, SongBai Road, Gongming, Guangming
New District, Shen Zhen, China.

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
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Date of receipt of test sample : August 05, 2026
Number of tested samples : 2
Sample No. : B260731022-1, B260731022-2
Serial number : Prototype
Date of Test : August 05, 2026 ~ August 21, 2026
Date of Report : August 24, 2026

TRF-4-E-214 A/0

Shenzhen LCS Compliance Testing Laboratory Ltd.
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**RF Exposure Evaluation****Report Reference No.** : **LCSA08046061EB****Date of Issue**..... : August 24, 2026**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**..... : **Light Emission Technology, Ltd.****Address**..... : 7F, Idee Monto Industrial Park, SongBai Road, Gongming,
Guangming New District, Shen Zhen, 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

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..... : **MR16****Trade Mark**..... : N/A**Test Model**..... : E9577**Ratings**..... : Please Refer to Page 6**Result** : **PASS****Compiled by:**

Li Huan/ Administrator

Supervised by:

Kevin Huang/ RF Manager

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RF Exposure Evaluation

Test Report No. :	LCSA08046061EB	<u>August 24, 2026</u> Date of issue
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EUT.....	: MR16
Test Model.....	: E9577
Applicant.....	: Light Emission Technology, Ltd.
Address.....	: 7F, Idee Monto Industrial Park, SongBai Road, Gongming, Guangming New District, Shen Zhen, China.
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Light Emission Technology, Ltd.
Address.....	: 7F, Idee Monto Industrial Park, SongBai Road, Gongming, Guangming New District, Shen Zhen, China.
Telephone.....	: /
Fax.....	: /
Factory	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result:	PASS
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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

Report Version	Issue Date	Revision Content	Revised By
000	August 24, 2026	Initial Issue	---



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1. Product Information

EUT	:	MR16
Test Model	:	E9577
Ratings	:	Input: 12VAC/60Hz
Hardware Version	:	/
Software Version	:	/
Bluetooth	:	
Frequency Range	:	2402MHz~2480MHz
Channel Number	:	40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	:	2MHz for Bluetooth V5.0 (DTS)
Modulation Type	:	GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	:	V5.0
Antenna Description	:	Internal Antenna, 5.0dBi(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.

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/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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 Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
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

*=Plane-wave equivalent power density



4. MPE Calculation Method

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

$$S=PG/4\pi R^2$$

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. Conducted Power

[BT LE]			
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE 1M	0	2402	1.58
	19	2440	2.48
	39	2480	1.85

6. Manufacturing Tolerance

[BLE 1M]			
GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	1.0	2.0	1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

7. Measurement Results

7.1 Standalone MPE Evaluation

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, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BLE 1M]							
Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm2)	MPE Limits (mW/cm2)	MPE ratios
	dBm	mW					
GFSK	3.0	1.9953	5.0	3.1623	0.0013	1.0000	yes

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjusted 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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7.2 Simultaneous Transmission MPE

The EUT equipped with one module and one antenna. So no need consider simultaneous transmission.

8. Conclusion

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

9. 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.

10.Measurement Uncertainty

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