



Test Report No.:  
**FCCSZ2025-0072-H**

# RF Test Report

**FCC ID** : 2BQRV-L600

**NAME OF SAMPLE** : Smart Lock

**APPLICANT** : Shenzhen Maoshengyi Technology co., Ltd.

**Classification of Test** : N/A

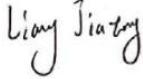
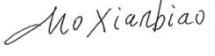
**CVC Testing Technology (Shenzhen) Co., Ltd.**



# CVC Testing Technology (Shenzhen) Co., Ltd.

Test Report No.: FCCSZ2025-0072-H

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<b>Applicant</b>		Name: Shenzhen Maoshengyi Technology co., Ltd.  Address: 28A, Unit 3, Suite 1, Building 2, Phase 1, Huaye Meigui Siji Xin Park, Shenzhen, Guangdong, China	
<b>Manufacturer</b>		Name: Shenzhen Maoshengyi Technology co., Ltd.  Address: 28A, Unit 3, Suite 1, Building 2, Phase 1, Huaye Meigui Siji Xin Park, Shenzhen, Guangdong, China	
<b>Equipment Under Test</b>		Product Name: Smart Lock  Model Name: L600  Additional Model: N/A  Brand Name: N/A  Serial NO.: N/A  Sample NO.: N/A	
Date of Receipt.	Jul.14, 2025	Date of Testing	Jul. 14, 2025 to Jul.30, 2025
<b>Test Specification</b>		<b>Test Result</b>	
FCC Part 2 (Section 2.1091)  KDB 447498 D04 v01, IEEE C95.3		PASS	
<b>Evaluation of Test Result</b>		The equipment under test was found to comply with the requirements of the standards applied.	
		Seal of CVC  <b>Issue Date: Jul.30, 2025</b>	
Compiled by:    <u>Liang Jiatong</u> Name      Signature	Reviewed by:    <u>Mo Xianbiao</u> Name      Signature	Approved by:    <u>Dong Sanbi</u> Name      Signature	
<b>Other Aspects: NONE.</b>			
Abbreviations: OK, Pass = passed      Fail = failed      N/A = not applicable      EUT = equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0072-H	Original release	Jul.30, 2025



## 1. GENERAL PRODUCT INFORMATION

<b>PRODUCT</b>	Smart Lock
<b>BRAND</b>	N/A
<b>MODEL</b>	L600
<b>ADDITIONAL MODEL</b>	N/A
<b>POWER SUPPLY</b>	DC 6V(4*1.5V*AA) from battery DC 5V 2A from adapter
<b>STANDARDS</b>	FCC Part 2 (Section 2.1091) KDB 447498 D04 v01, IEEE C95.3

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to the report (Report NO.: FCCSZ2025-0072-EUT).



## 2. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P$  is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where:

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz;

and

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(Option C) Or using Table 1 and the minimum separation distance ( $R$  in meters) from the body of a nearby person for the frequency ( $f$  in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply,  $R$  must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to §1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (MHz)	Threshold ERP (W)
0.3 - 1.34	$1920R^2$
1.34 - 30	$3450R^2/f^2$
30 - 300	$3.38R^2$
300 - 1500	$0.0128R^2/f^2$
1500 - 100000	$19.2R^2$



For multiple RF sources: Multiple RF sources are exempt if:

- a) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- b) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for  $P_{th}$ , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

$P_i$  = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source  $i$  at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$  = the exemption threshold power ( $P_{th}$ ) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source  $i$ .

$ERP_j$  = the ERP of fixed, mobile, or portable RF source  $j$ .

$ERP_{th,j}$  = exemption threshold ERP for fixed, mobile, or portable RF source  $j$ , at a distance of at least  $\lambda/2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

$Evaluated_k$  = the maximum reported SAR or MPE of fixed, mobile, or portable RF source  $k$  either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$  = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source  $k$ , as applicable from § 1.1310 of this chapter.



### 3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

### 4. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Mode	Frequency (MHz)	Peak Gain (dBi)
2.4G WIFI	2412 ~ 2472	2.08
BT-LE*	2402 ~ 2480	1.55

Remark:

1. This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.
2. \*The EUT contains a certified module (FCC ID: 2ACCRMC60), according to the MPE reports of FCC ID: 2ACCRMC60, Date of Grant: 09/09/2021.



## 5. CALCULATION RESULT OF MAXIMUM CONDUCTED PK POWER

The measured conducted Peak Power

Mode	Power (dBm)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2.4G WIFI	17.45	17	+1	16	18
BT-LE*	7.50	7	+1	6	8



## MAXIMUM PERMISSIBLE EXPOSURE (FCC)

Mode	Frequency (MHz)	Max Power (dBm)	Antenna Gain (dBi)	R (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	Threshold ERP(W)	Ratio
2.4G WIFI	2412-2472	18	2.08	20	20.08	17.93	0.062	3.06	0.020
BT-LE	2402-2480	8	1.55	20	9.55	7.40	0.005	3.06	0.001
Sum of ratio =WIFI+LTE									0.021

Remark:1.\*The EUT contains a certified module (FCC ID: 2ACCRMC60), according to the MPE reports of FCC ID: 2ACCRMC60, Date of Grant: 05/10/2022.

**Note1:** This device operate simultaneously in WIFI,BT.

**Note2:** ERP=EIRP-2.15dB

## Conclusion:

Therefore, the worst-case situation is 0.021(Sum of Ratios), which is less than "1". This confirmed that the device compliance with FCC RF exposure requirements..

----- End of the Report -----



## Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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