



## RF Exposure Evaluation

For

Telepower Communication Co., Ltd.

Electronic Price Tag

Test Model: L106

Prepared for

Address

: Telepower Communication Co., Ltd.

: 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, China

Prepared by

Address

: Shenzhen LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample

: May 07, 2025

Number of tested samples

: 2

Sample No.

: A250429044-1, A250429044-2

Serial number

: Prototype

Date of Test

: May 07, 2025 ~ May 19, 2025

Date of Report

: May 20, 2025



**RF Exposure Evaluation****Report Reference No. .... : LCSA05065032EB**

Date of Issue..... : May 20, 2025

**Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address..... : 101, 201 Bldg A &amp; 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..... : Telepower Communication Co., Ltd.**

Address..... : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, 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 A0**

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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**EUT Description..... : Electronic Price Tag**Trade Mark..... : **Telpo**

Test Model..... : L106

Ratings..... : DC 6V By 2pcs CR2450 Lithium Cell, 1200mAh

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

Diamond Lu/ Administrator

**Supervised by:**

Jack Liu/ Technique principal

**Approved by:**

Gavin Liang/ Manager



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Scan code to check authenticity



## RF Exposure Evaluation

|                   |                       |                     |
|-------------------|-----------------------|---------------------|
| Test Report No. : | <b>LCSA05065032EB</b> | <u>May 20, 2025</u> |
|                   |                       | Date of issue       |

|                   |   |
|-------------------|---|
| Test Model.....   | : L106  |
| EUT.....          | : Electronic Price Tag  |
| Applicant.....    | <b>: Telepower Communication Co., Ltd.</b>  |
| Address.....      | : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, China |
| Telephone.....    | : /   |
| Fax.....          | : /   |
|                   | :   |
| Manufacturer..... | <b>: Telepower Communication Co., Ltd.</b>  |
| Address.....      | : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, China |
| Telephone.....    | : /   |
| Fax.....          | : /   |
|                   | :   |
| Factory.....      | <b>: Telepower Communication Co., Ltd.</b>  |
| Address.....      | : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, China |
| Telephone.....    | : /   |
| Fax.....          | : /   |

|                    |             |
|--------------------|-------------|
| <b>Test Result</b> | <b>PASS</b> |
|--------------------|-------------|

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            | May 20, 2025 | Initial Issue    | --         |
|                |              |                  |            |
|                |              |                  |            |





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## 1. Product Information

|                   |   |   |
|-------------------|---|---|
| Product name      | : | Electronic Price Tag                        |
| Test Model        | : | L106  |
| Ratings           | : | DC 6V By 2pcs CR2450 Lithium Cell, 1200mAh  |
| Hardware Version  | : | 1.0   |
| Software Version  | : | V1.0  |
| Bluetooth         | : | 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 Type      | : | PCB Antenna                                 |
| Antenna Gain      | : | 2.6dBi                                      |
| 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.

## 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."

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

- 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  $\leq 50 \text{ mm}$





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.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- The  $[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg}] + [\sum \text{ of MPE ratios}] \leq 1.0$ .
- The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all  $\leq 0.04$ , and the  $[\sum \text{ of MPE ratios}] \leq 1.0$ .

### 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

< BLE 1M >

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|------|---------|-----------------|-----------------------------------|
| GFSK | 0       | 2402            | -1.62                             |
|      | 19      | 2440            | -1.53                             |
|      | 39      | 2480            | -1.62                             |

< BLE 2M >

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|------|---------|-----------------|-----------------------------------|
| GFSK | 0       | 2402            | -1.54                             |
|      | 19      | 2440            | -1.41                             |
|      | 39      | 2480            | -1.49                             |

### 5. Manufacturing Tolerance

< BLE 1M >

| GFSK (Peak)          |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | -1.0      | -1.0       | -1.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

< BLE 2M >

| GFSK (Peak)          |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | -1.0      | -1.0       | -1.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |





## 6. Evaluation Results

### 6.1 Standalone Evaluation

| Band/Mode |      | f<br>(GHz) | Antenna<br>Distance<br>(mm) | RF output power |        | SAR Test<br>Exclusion<br>Threshold | SAR Test<br>Exclusion |
|-----------|------|------------|-----------------------------|-----------------|--------|------------------------------------|-----------------------|
|           |      |            |                             | dBm             | mW     |                                    |                       |
| BLE 1M    | GFSK | 2.480      | 5                           | 0               | 1.0000 | 0.3150< 3.0                        | Yes                   |
| BLE 2M    | GFSK | 2.480      | 5                           | 0               | 1.0000 | 0.3150< 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 is applied to determine SAR test exclusion.

### 6.2 Simultaneous Transmission for SAR Exclusion

The sample support one BT modular. No need consider simultaneous transmission.

## 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 |
|--------------|-----------------|-------------|------|
| 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.....

