



## RF EXPOSURE REPORT

For

### Quanzhou Chierda Electronic Telecom Co., Ltd.

No.8,Zi'an Road,Jiangnan High-tech Industrial Zone Licheng District, Quanzhou Fujian, China

**FCC ID: OA8-V25**

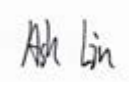
|                       |                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b>   | <b>Product Name:</b>                                                                                                                                                                                                                                                           |
| Original Report       | REPEATER                                                                                                                                                                                                                                                                       |
| <b>Report Number:</b> | 2507S15659E-RF-02                                                                                                                                                                                                                                                              |
| <b>Report Date:</b>   | 2025-12-05                                                                                                                                                                                                                                                                     |
| <b>Reviewed By:</b>   | Ash Lin                                                                                                                                                                                     |
| <b>Approved By:</b>   | Miles Chen                                                                                                                                                                                  |
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**REPORT REVISION HISTORY**

| Number of Revisions | Report No.        | Version | Issue Date | Description     |
|---------------------|-------------------|---------|------------|-----------------|
| 0                   | 2507S15659E-RF-02 | R1V1    | 2025-12-05 | Initial Release |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                                                                 |         |                                  |
|---------------------------------------------------------------------------------|---------|----------------------------------|
| Product Name:                                                                   |         | REPEATER                         |
| Tested Model:                                                                   |         | V25                              |
| Multiple Model(s):                                                              |         | RT97L                            |
| Trade Mark:                                                                     |         | N/A                              |
| Adapter Information                                                             | Model:  | NT-1501000D1                     |
|                                                                                 | Input:  | AC 100-240V, 50/60Hz, 2.5A Max   |
|                                                                                 | Output: | DC 15.0V, 10.0A, 150.0W          |
| Power Supply:                                                                   |         | DC 15V from adapter or DC source |
| Maximum Conducted Output Power:                                                 |         | 43.64dBm                         |
| Modulation Technique:                                                           |         | FM                               |
| EUT Received Status:                                                            |         | Good                             |
| <i>Note:</i><br>1. The EUT supplied by the applicant was received on 2025-10-09 |         |                                  |

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone Xiamen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

## **FCC§95.385 (a) § 2.1091 – MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

### **Applicable Standard**

According to subpart 95.385 (a) & subpart 2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                                      |                                      |                                          |                                 |
|----------------------------------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------|---------------------------------|
| <b>Frequency Range (MHz)</b>                                   | <b>Electric Field Strength (V/m)</b> | <b>Magnetic Field Strength (A/m)</b> | <b>Power Density (mW/cm<sup>2</sup>)</b> | <b>Averaging Time (minutes)</b> |
| 0.3-1.34                                                       | 614                                  | 1.63                                 | *(100)                                   | 30                              |
| 1.34-30                                                        | 824/f                                | 2.19/f                               | *(180/f <sup>2</sup> )                   | 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;

### **Calculated Formulary:**

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

### **Calculated Data:**

For worst case:

| <b>Mode</b> | <b>Frequency (MHz)</b> | <b>Antenna Gain</b> |                  | <b>Tune-up Output Power★</b> |             | <b>Evaluation Distance (cm)</b> | <b>Power Density (mW/cm<sup>2</sup>)</b> | <b>MPE Limit (mW/cm<sup>2</sup>)</b> |
|-------------|------------------------|---------------------|------------------|------------------------------|-------------|---------------------------------|------------------------------------------|--------------------------------------|
|             |                        | <b>(dBi)</b>        | <b>(numeric)</b> | <b>(dBm)</b>                 | <b>(mW)</b> |                                 |                                          |                                      |
| FM          | 462.550-462.725        | 0                   | 1.0              | 44                           | 25118.86    | 130                             | 0.1183                                   | 0.308                                |

Note: 1. The Tune-up output power was declared by the Manufacturer.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 130cm from nearby persons.

**Result:** Compliant

## **EUT PHOTOGRAPHS**

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Please refer to the attachment 2507S15659E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507S15659E-RF-INP EUT INTERNAL PHOTOGRAPHS.

### **Declarations**

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $k=2$  with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***