



## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR250400067801

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# TEST REPORT

**Application No.:** KSCR2504000678AT  
**FCC ID:** 2BEY3LUK66LDA  
**Applicant:** NETPRISMA INC.  
**Address of Applicant:** 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES  
**Manufacturer:** NETPRISMA INC.  
**Address of Manufacturer:** 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES  
**Equipment Under Test (EUT):**  
**EUT Name:** LTE-A Cat 12 LGA Module  
**Model No.:** LUK66-LD  
**Trade Mark:** Vrileg  
**Standard(s):** FCC Part 96.47  
FCC KDB 940660 D01 Part 96 CBRS Eqpt v03  
WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification  
WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines  
**Date of Receipt:** 2025-04-09  
**Date of Test:** 2025-04-15 to 2025-04-22  
**Date of Issue:** 2025-04-24

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

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| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2025-04-24 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                              |  |  |
|--------------------------|--|------------------------------|--|--|
| Authorized for issue by: |  |                              |  |  |
| Tested By                |  | Damon Zhou                   |  |  |
|                          |  | Damon Zhou /Project Engineer |  |  |
| Approved By              |  | Terry Hou                    |  |  |
|                          |  | Terry Hou /Reviewer          |  |  |



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## 2 Test Summary

| Item                                   | Standard | Test Case ID | Result |
|----------------------------------------|----------|--------------|--------|
| End User Device additional requirement | 96.47    | /            | Pass   |

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**Test standards:**

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

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## 4 General Information

### 4.1 Details of E.U.T.

|                              |                                         |
|------------------------------|-----------------------------------------|
| Power supply:                | DC 5V                                   |
| Sample Type:                 | End User device                         |
| Transmitter Frequency Band:  | LTE: Band 48                            |
| Transmitter Frequency Range: | 3550~3700MHz                            |
| Antenna Type:                | External Antenna                        |
| Hardware Version:            | R1.0                                    |
| Software Version:            | LUK66LDBL0101                           |
| Antenna Gain:                | -1.36dBi (Provided by the manufacturer) |
| MIMO                         | LTE:1TX4RX                              |

### 4.2 Measurement Uncertainty

| No. | Item               | Measurement Uncertainty   |
|-----|--------------------|---------------------------|
| 1   | Radio Frequency    | $\pm 7.25 \times 10^{-8}$ |
| 2   | RF conducted power | $\pm 0.75\text{dB}$       |
| 3   | Temperature test   | $\pm 1^{\circ}\text{C}$   |
| 4   | Humidity test      | $\pm 3\%$                 |
| 5   | Supply voltages    | $\pm 1.5\%$               |
| 6   | Time               | $\pm 3\%$                 |

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### 4.3 Description of Support Units

For LTE test:

| Description  | Manufacturer            | Model No.                           | Serial No.          |
|--------------|-------------------------|-------------------------------------|---------------------|
| EPC          | Lanner Electronics Inc. | LICA-1513A                          | LR202002004052      |
| Router       | TP-LINK                 | TL-R860+                            | 1175379002425       |
| Base station | Baicells                | pBS31010<br>(FCC ID: 2AG32PBS31010) | 12020002912122B0001 |

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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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### 5 Equipment List

| Test Equipment                      | Manufacturer  | Model No.        | Inventory No.     | Cal. Date<br>(yyyy-mm-dd) | Cal. Due date<br>(yyyy-mm-dd) |
|-------------------------------------|---------------|------------------|-------------------|---------------------------|-------------------------------|
| Laptop                              | Lenovo        | Y510P            | HFL000026         | N/A                       | N/A                           |
| Spectrum Analyzer                   | KEYSIGHT      | N9020A           | KUS2001M00<br>1-2 | 2024/8/24                 | 2025/8/23                     |
| Shield Room                         | YanChuang     | N/A              | KS301115-2        | N/A                       | N/A                           |
| Coaxial Cable                       | Thermax       | N/A              | 13                | 2024/9/16                 | 2025/9/15                     |
| Attenuator                          | Mini-Circuits | NAT-6-2W         | 15542-1           | N.C.R.                    | N.C.R.                        |
| Humidity / Temperature<br>Indicator | Renke         | RS-WS-N01-<br>6J | 1032844           | 2025/2/26                 | 2026/2/25                     |





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## 6 Test Method and Environment

### 6.1 End User Device Conformance and Performance

Test Requirement: FCC Part 96.47

Test Method: WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

### 6.2 Test Environment

Environmental Conditions: 25°C, 65%RH

### 6.3 Test Requirement

FCC Part 96.47

- a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

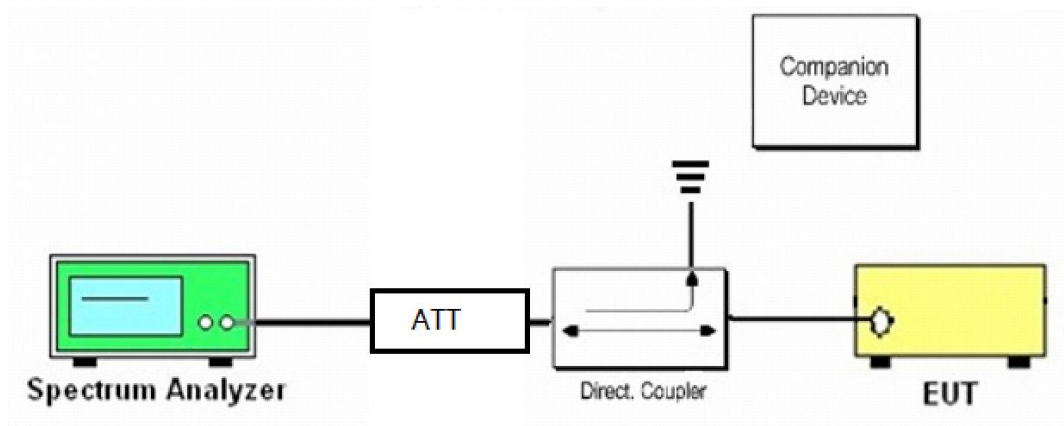
## **6.4 Test Procedure**

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For LTE:

1. Setup with frequency 3560-3580MHz and power level 14dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3575-3595MHz & power level 8dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;
9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.

### 6.5 Test Setup



For LTE:

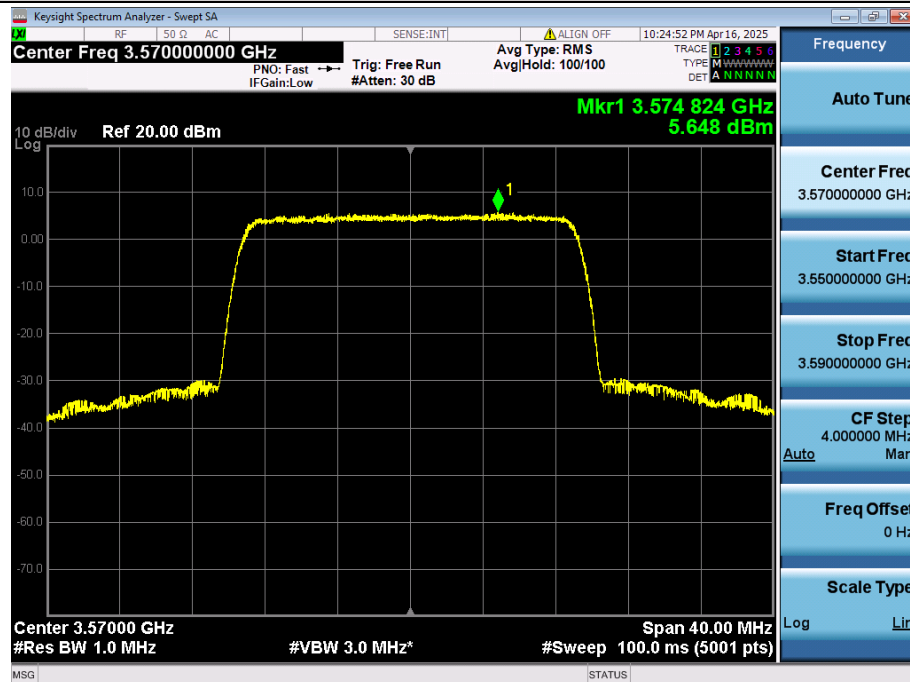
End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)

### 6.6 Test Result

For LTE

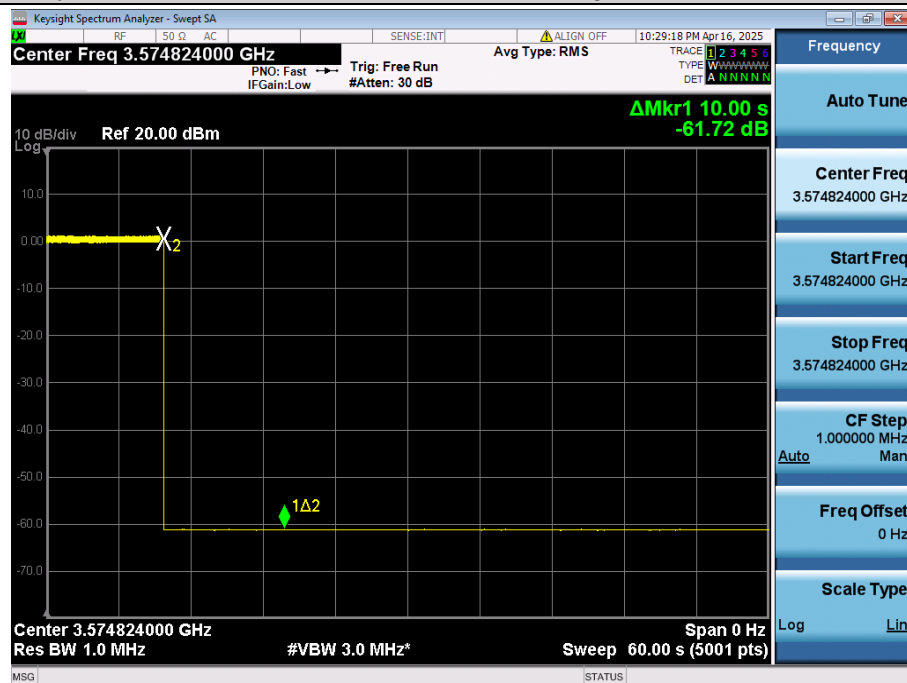
[Step 1] Setup with frequency 3560-3580MHz and power level 14dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=5.648-1.36+4.5=8.788dBm/MHz, Antenna gain is -1.36dBi, the path loss is 4.5dB

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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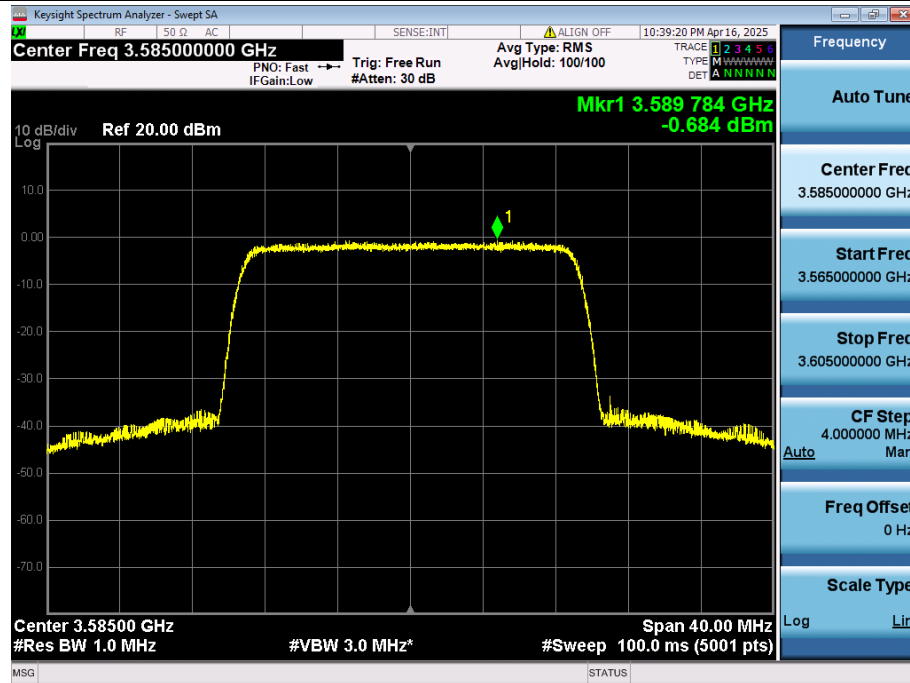
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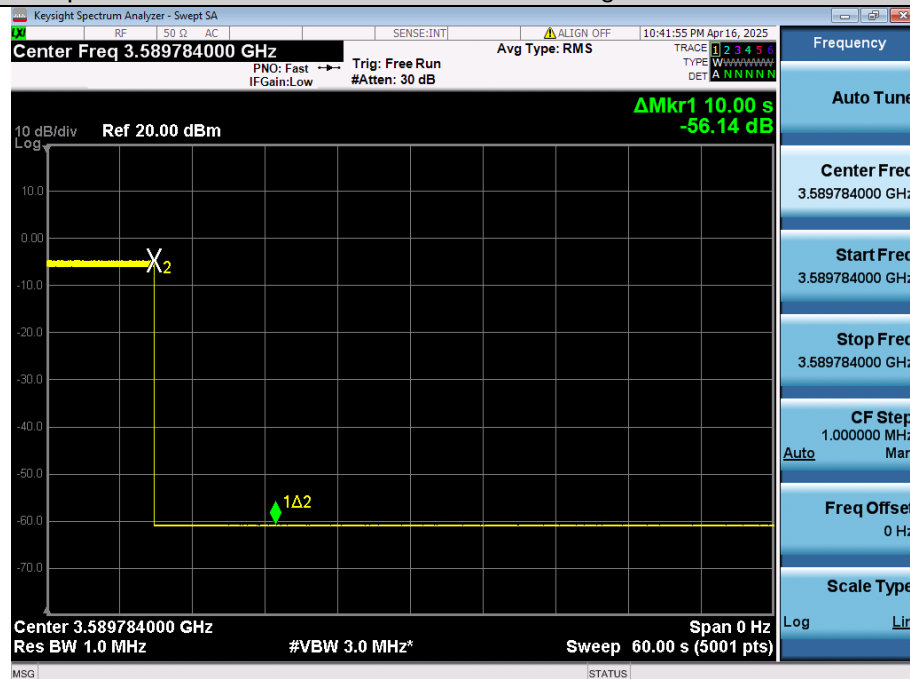
[Step 6] Setup with frequency 3575-3595MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-0.684-1.36+4.5=2.456dBm/MHz, Antenna gain is -1.36dBi,the path loss is 4.5dB

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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## **7 Test Setup Photographs**

Refer to Appendix - Test Setup Photo for KSCR2504000678AT.

- End of the Report -