

# Antenna Measurement Report

**Manufacturer:** Acer India Pvt Ltd.

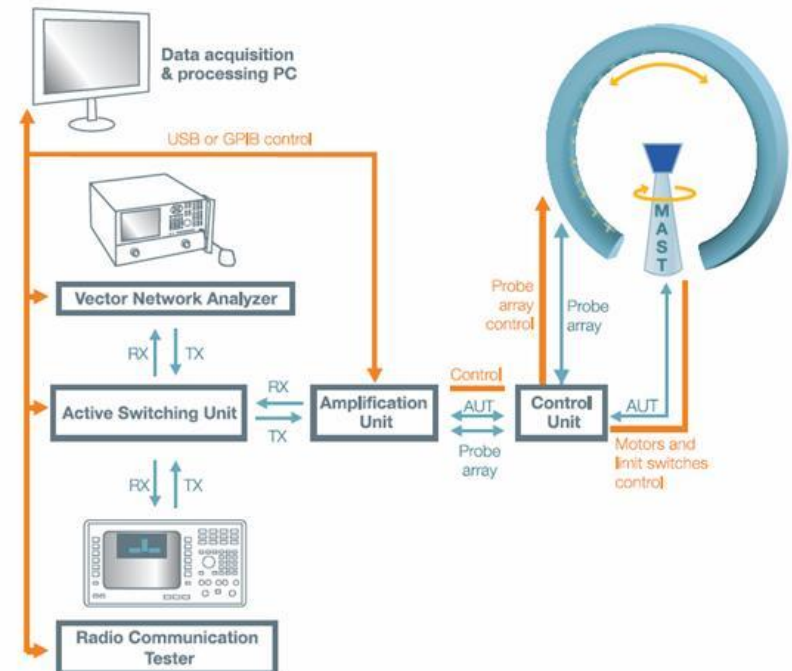
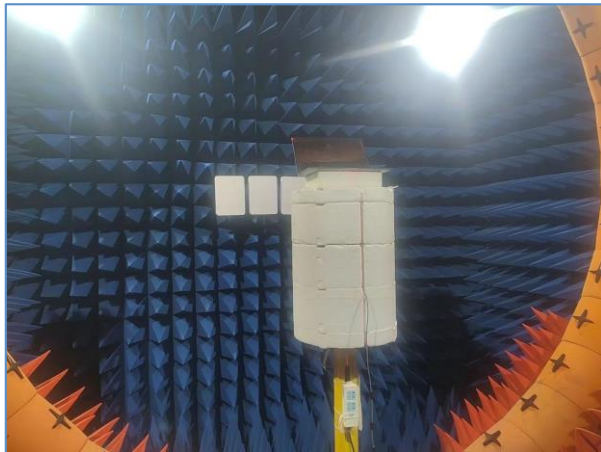
**Address:** Embassy Heights 6th Floor, No.13, Magrath Road, (Next to Hosmat Hospital) Bangalore, 560025 India

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Project name :</b>    | <b>英众笔记本DN21C-140P6-SCD-N02报告</b> |
| <b>Type of antenna :</b> | <b>WIFI2.4/5G</b>                 |
| <b>Redact :</b>          |                                   |
| <b>Approver :</b>        |                                   |
| <b>Version number :</b>  | <b>V1.0</b>                       |
| <b>Date :</b>            | <b>20240705</b>                   |

# 1. Test items and equipment

## Passive test item

|           |                     |
|-----------|---------------------|
| 1. 整机辐射功率 | Microwave chamber   |
| 2. 整机数据   | 网分 E5071B<br>CMW500 |



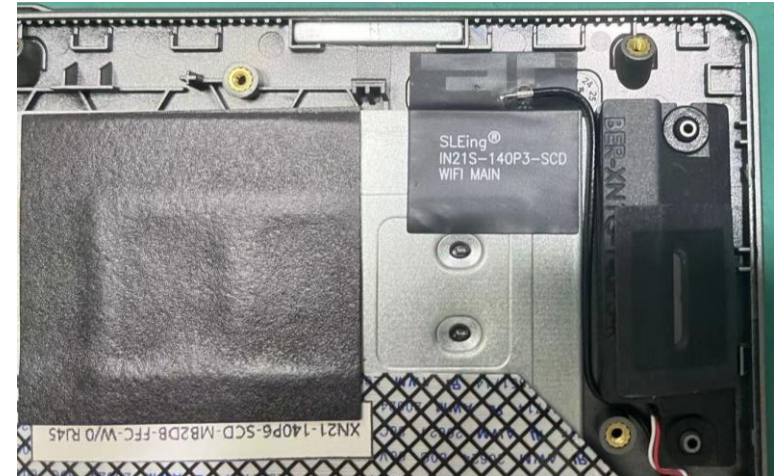
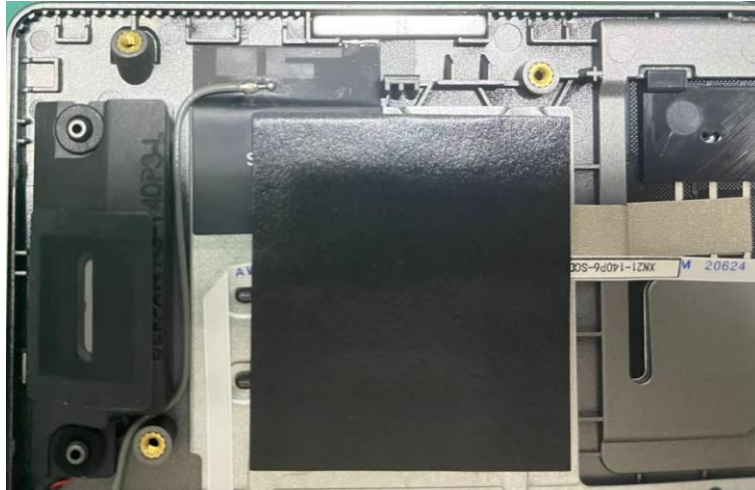
## 2. Product information

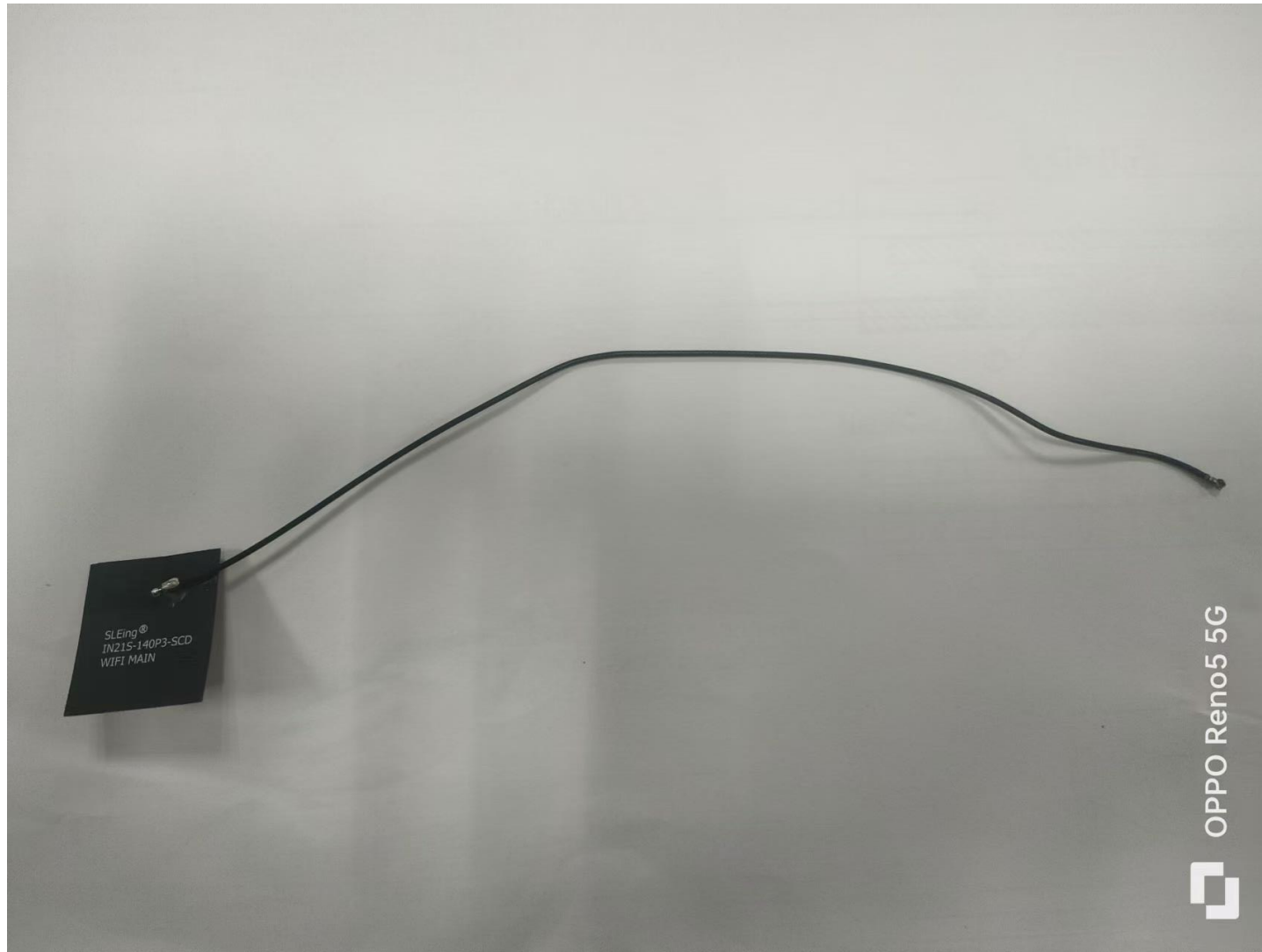
产品名称：英众笔记本DN21C-140P6-SCD-N02

测试天线：WIFI2.4/5G



### 3. Antenna assembly instructions







**WLAN Antenna Performance**

WLAN Whole Band TRP (dBm) \_\_\_\_\_

WLAN Whole Band TIS (dBm) \_\_\_\_\_

|                          |          | Channel No. | Freq. (MHz) | TRP (dBm) | TIS (dBm) |
|--------------------------|----------|-------------|-------------|-----------|-----------|
| Phone Tx (Uplink Path)   | <u>1</u> | 1           | --          | 11.63     | --        |
|                          | <u>2</u> | 6           | --          | 12.74     | --        |
|                          | <u>3</u> | 11          | --          | 12.18     | --        |
|                          | <u>4</u> | --          | --          | --        | --        |
|                          | <u>5</u> | --          | --          | --        | --        |
| Phone Rx (Downlink Path) | <u>1</u> | 1           | --          | --        | -78.96    |
|                          | <u>2</u> | 6           | --          | --        | -79.22    |
|                          | <u>3</u> | 11          | --          | --        | -79.86    |
|                          | <u>4</u> | --          | --          | --        | --        |
|                          | <u>5</u> | --          | --          | --        | --        |

AX101 11B有源数据

**WLAN Antenna Performance**

WLAN Whole Band TRP (dBm) \_\_\_\_\_

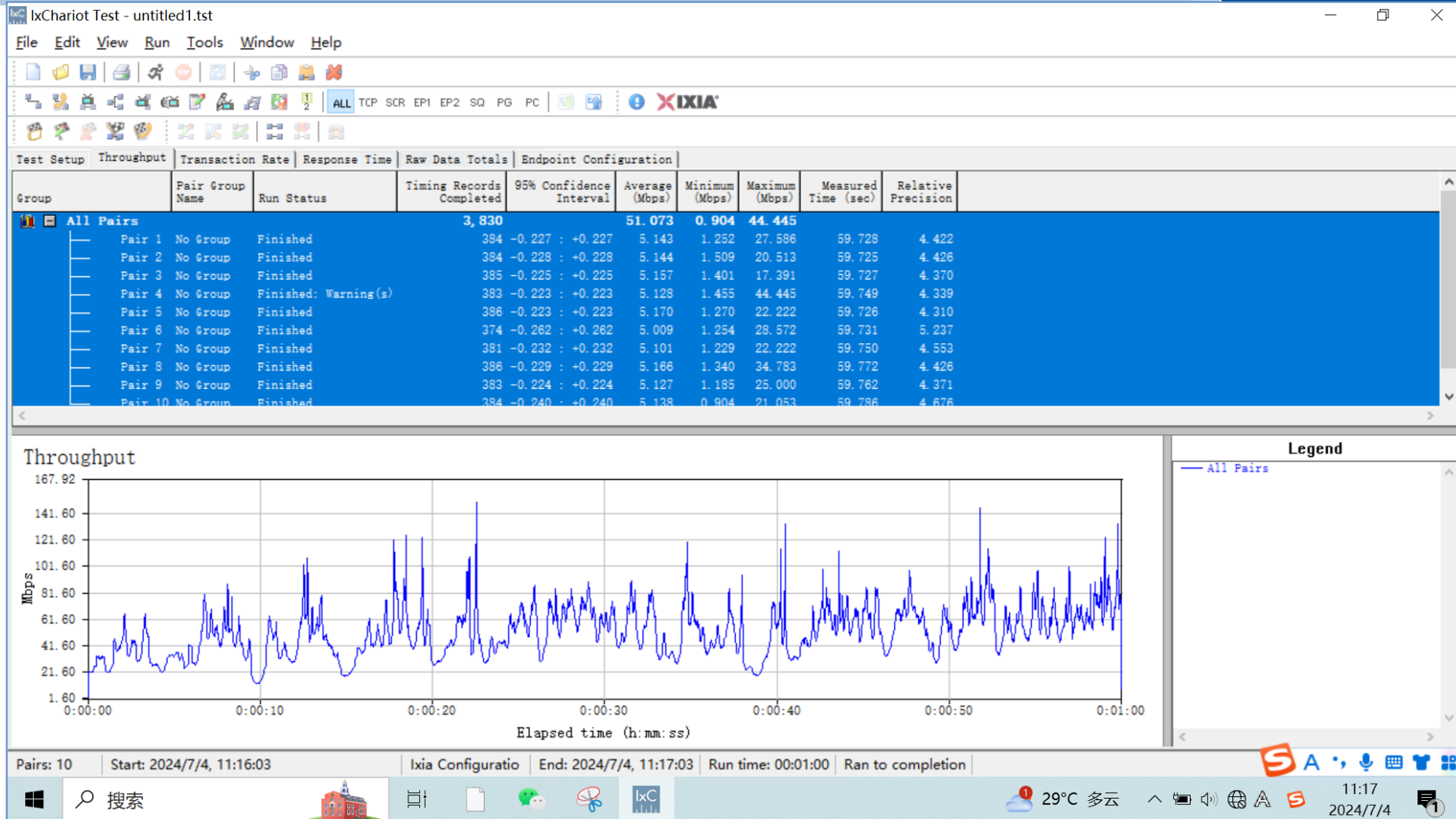
WLAN Whole Band TIS (dBm) \_\_\_\_\_

|                          |          | Channel No. | Freq. (MHz) | TRP (dBm) | TIS (dBm) |
|--------------------------|----------|-------------|-------------|-----------|-----------|
| Phone Tx (Uplink Path)   | <u>1</u> | 36          | --          | 12.89     | --        |
|                          | <u>2</u> | 149         | --          | 13.22     | --        |
|                          | <u>3</u> | 165         | --          | 12.48     | --        |
|                          | <u>4</u> | --          | --          | --        | --        |
|                          | <u>5</u> | --          | --          | --        | --        |
| Phone Rx (Downlink Path) | <u>1</u> | 36          | --          | --        | -68.95    |
|                          | <u>2</u> | 149         | --          | --        | -69.33    |
|                          | <u>3</u> | 165         | --          | --        | -70.48    |
|                          | <u>4</u> | --          | --          | --        | --        |
|                          | <u>5</u> | --          | --          | --        | --        |

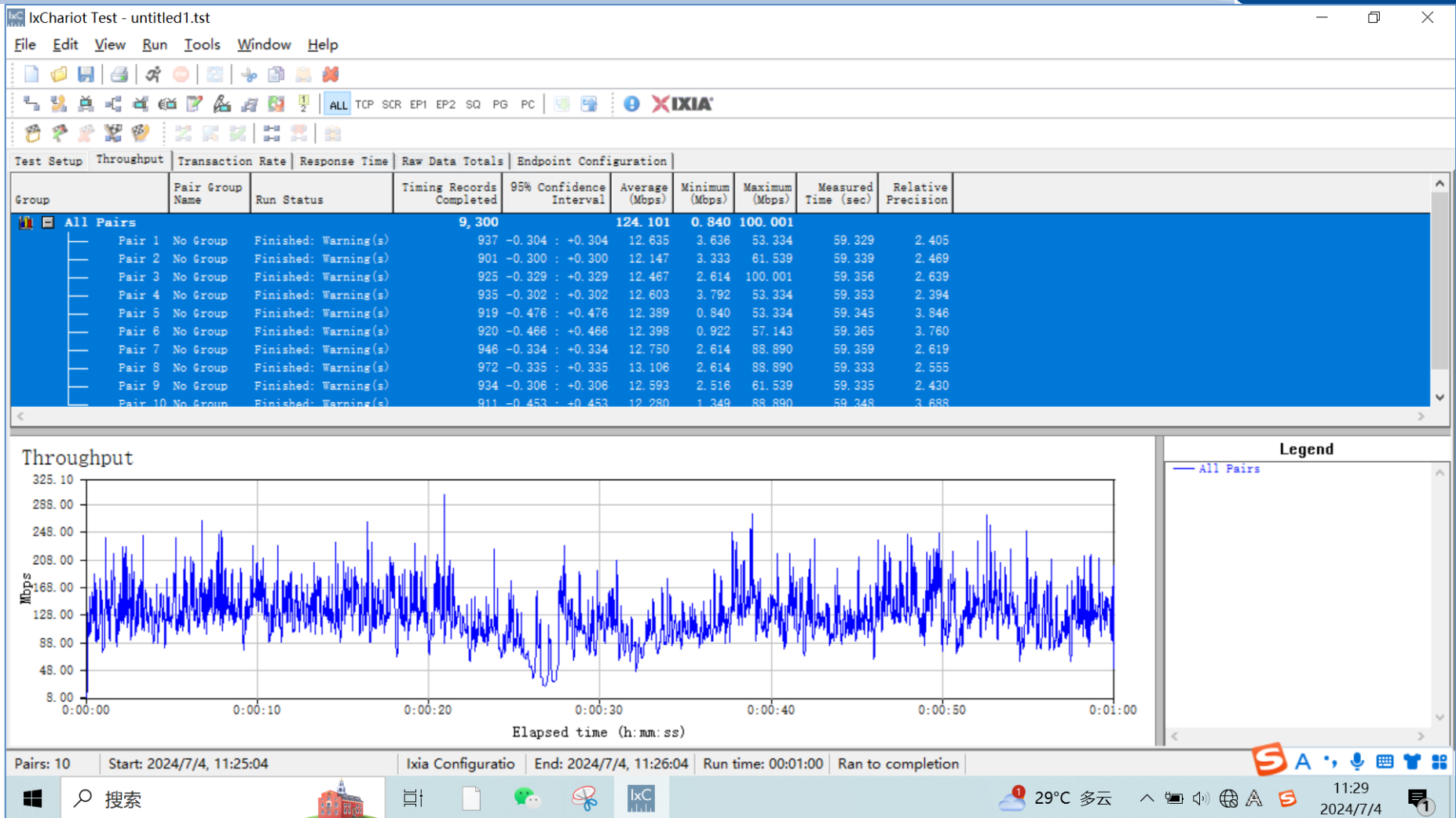
AX101 11A有源数据



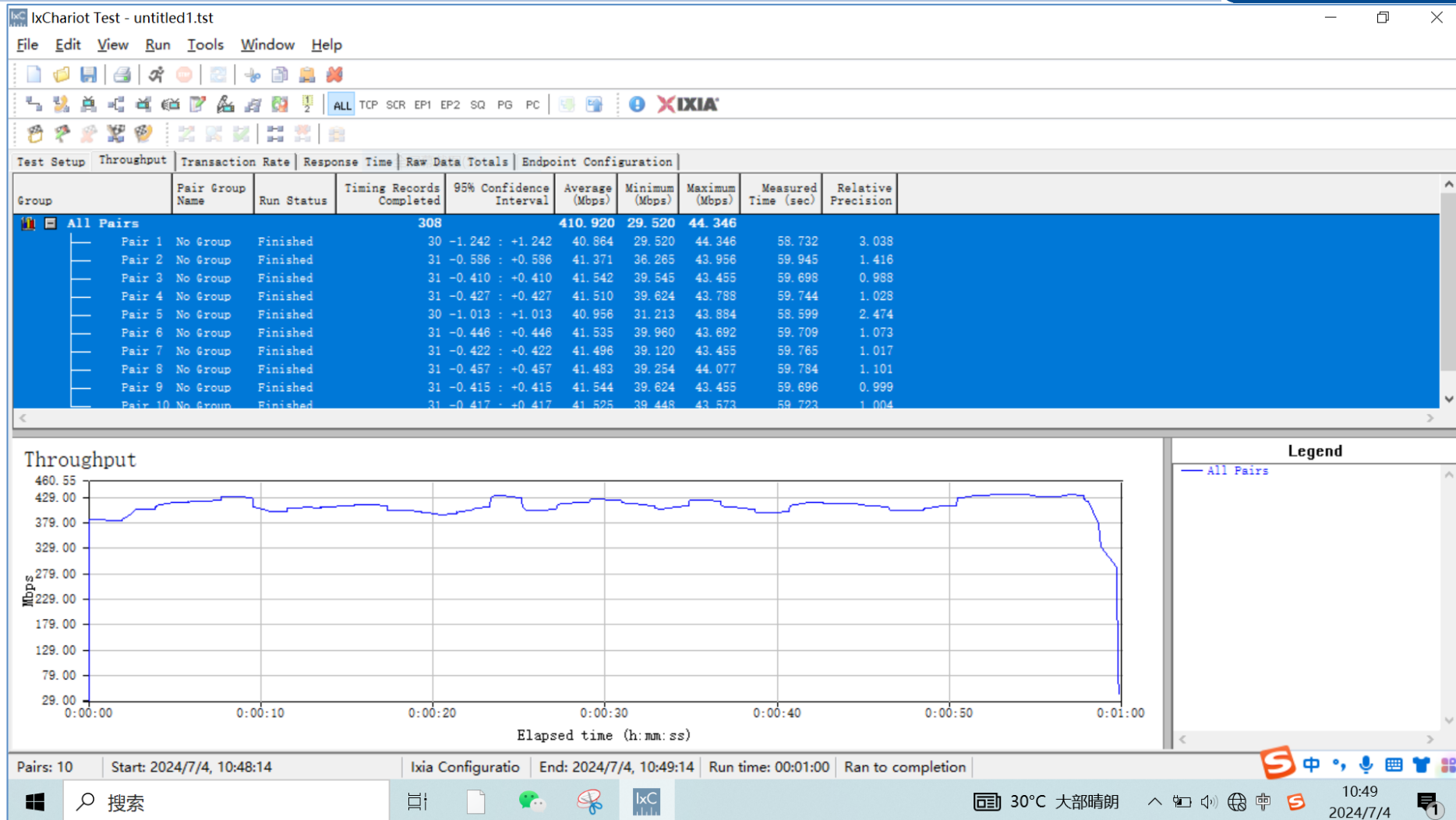
Throughput test environment



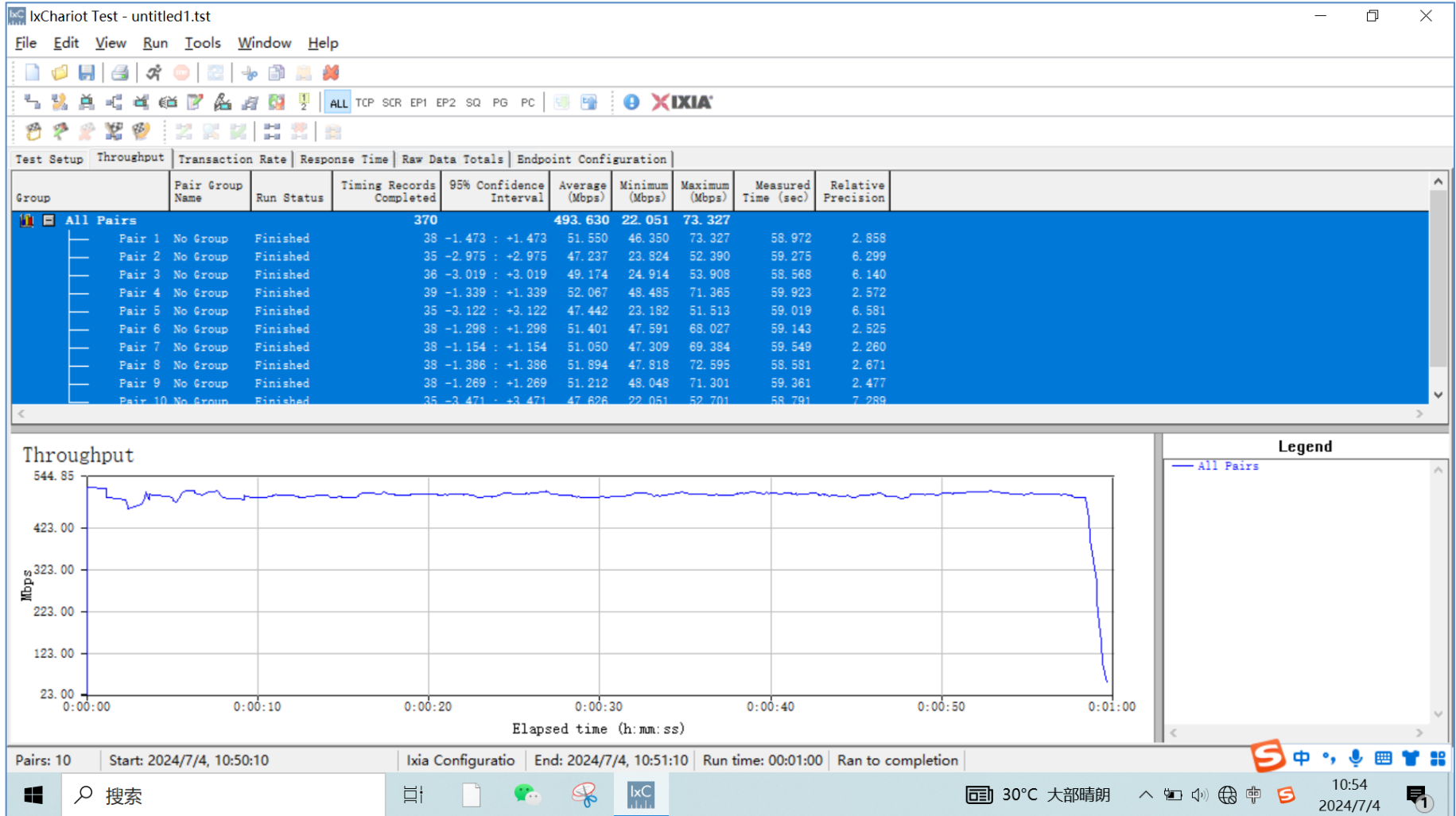
AX101 WiFi module throughput 2.4G transmit data



AX101 WiFi module throughput 2.4G received data



AX101 WiFi module throughput 5G transmit data



AX101 WiFi module throughput 5G receiving data

# 测试效率

## Test Efficiency

| Frequency ID     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)  | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
| Efficiency (dBi) | -3.75 | -3.50 | -3.44 | -3.36 | -3.11 | -3.03 | -3.00 | -2.96 | -2.78 | -2.69 | -2.46 |
| Gain (dBi)       | 2.52  | 2.51  | 2.60  | 2.69  | 3.35  | 3.61  | 3.36  | 3.40  | 3.32  | 3.77  | 4.09  |
| Efficiency (%)   | 42.16 | 44.71 | 45.30 | 46.09 | 48.86 | 49.75 | 50.10 | 50.55 | 52.72 | 53.77 | 56.70 |

| 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5150  | 5200  | 5250  | 5300  | 5350  | 5400  | 5450  | 5500  | 5550  | 5600  | 5650  | 5700  | 5750  | 5800  | 5850  |
| -2.98 | -3.28 | -3.30 | -3.36 | -3.14 | -2.53 | -2.83 | -3.38 | -3.92 | -4.04 | -3.36 | -3.54 | -3.78 | -3.81 | -3.50 |
| 3.68  | 3.89  | 3.94  | 4.51  | 5.10  | 5.61  | 4.25  | 3.92  | 3.75  | 3.99  | 4.71  | 4.70  | 4.77  | 4.75  | 5.17  |
| 50.30 | 47.00 | 46.79 | 46.15 | 48.58 | 55.87 | 52.06 | 45.87 | 40.53 | 39.42 | 46.11 | 44.21 | 41.84 | 41.61 | 44.66 |

天线方向图 3

