

# SPECIFICATIONS FOR APPROVAL

Customer Name: \_\_\_\_\_

Product Name: 2.4GHz Antenna

Product Model: \_\_\_\_\_

Part Number: \_\_\_\_\_

Write By : \_\_\_\_\_

Issued Date: 2021-04-08

## CUSTOMER

| ENGINEER R&D DEPT | BUSSINESS DEPT | APPROVAL |
|-------------------|----------------|----------|
|                   |                |          |

## LEJIN

| R&D DEPT | ENGINEER DEPT | APPROVAL |
|----------|---------------|----------|
|          |               |          |

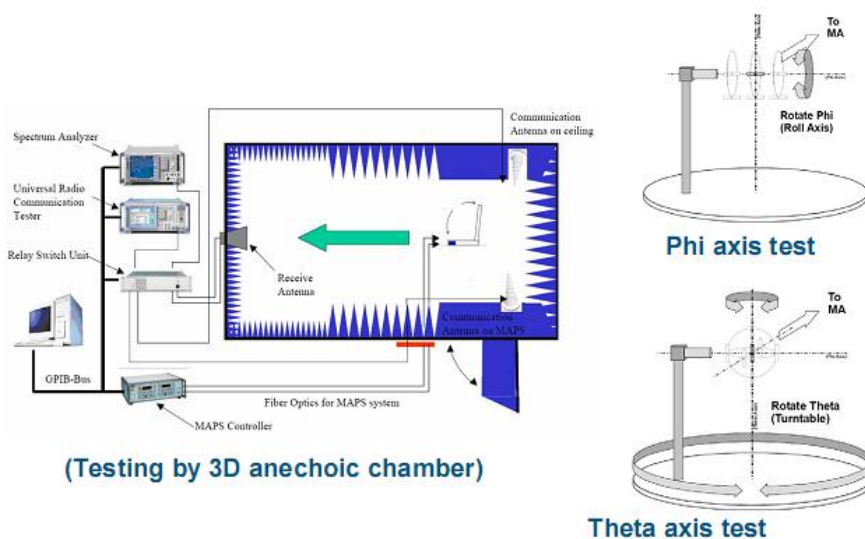
| REV  | MODIFIED DESCRIPTION  | DATE       | REMARK |
|------|-----------------------|------------|--------|
| V1.0 | Initial Draft Release | 2021/04/08 |        |
|      |                       |            |        |
|      |                       |            |        |

## 1.Product Specification

| A. Electrical Characteristics            |                   |
|------------------------------------------|-------------------|
| Frequency                                | 2400MHz ~2500 MHz |
| VSWR                                     | <2.0              |
| Efficiency                               | >40%              |
| Impedance                                | 50Ohm             |
| Polarization                             | Linear            |
| Gain                                     | ≥1.0dB            |
| B. Material & Mechanical Characteristics |                   |
| Material of Radiator                     |                   |
| Cable Type                               | N/A               |
| Connector Type                           | N/A               |
| Dimension                                |                   |
| C. Environmental                         |                   |
| Operation Temperature                    | - 20 °C ~ + 70 °C |
| Storage Temperature                      | - 30 °C ~ + 85 °C |
| Humidity                                 | 40%~95%           |

## 2.Test Equipment & Conditions

- 1.Network Analyzers Agilent 8753D/5071C
- 2.HSPA and LTE protocol test set R&S CMW500 -PT
- 3.Communications Test Set Agilent 8960
- 4.3D Chamber Test System



### 3.Test Report

#### 3.1 Voltage Standing Wave

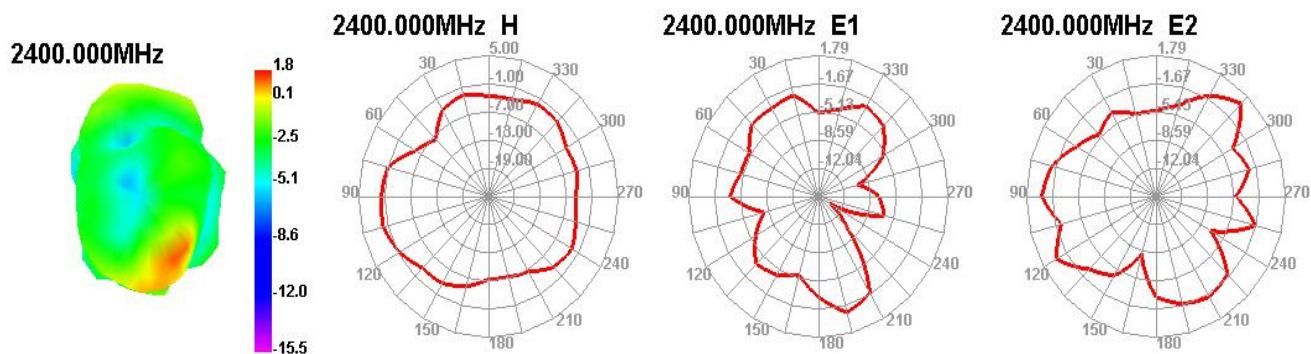


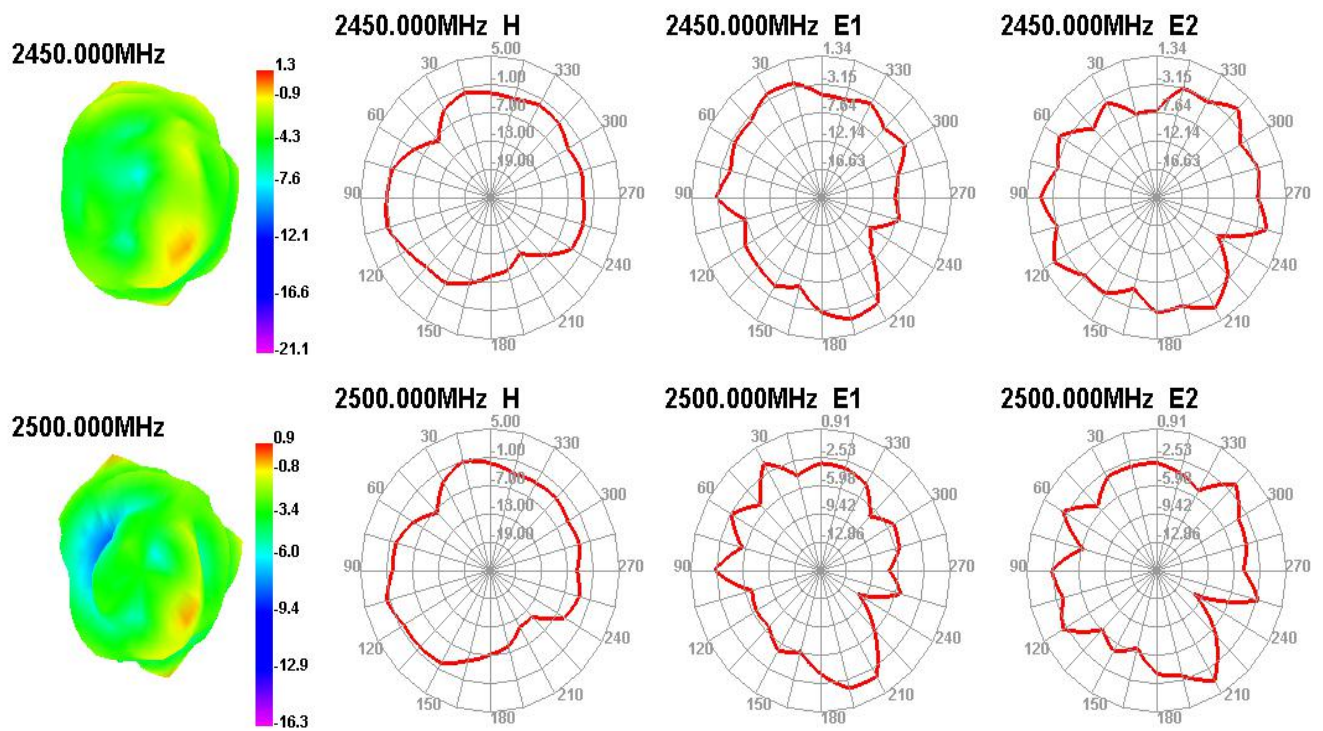
Chart 2 VSWR

#### 3.2 Efficient and gain.

| Passive                  | Freq(MHz) | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
|--------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Test For<br>WIFI<br>2.4G | Effi(%)   | 42.62 | 46.84 | 51.47 | 55.07 | 53.54 | 48.06 | 51.80 | 49.38 | 44.21 | 42.77 | 40.64 |
|                          | Gain(dBi) | 0.97  | 1.04  | 1.06  | 1.05  | 0.94  | 0.99  | 1.02  | 1.19  | 1.02  | 0.77  | 0.36  |

#### 3.3 Radiation pattern.





#### 4. Antenna pattern

