

# Antenna test report

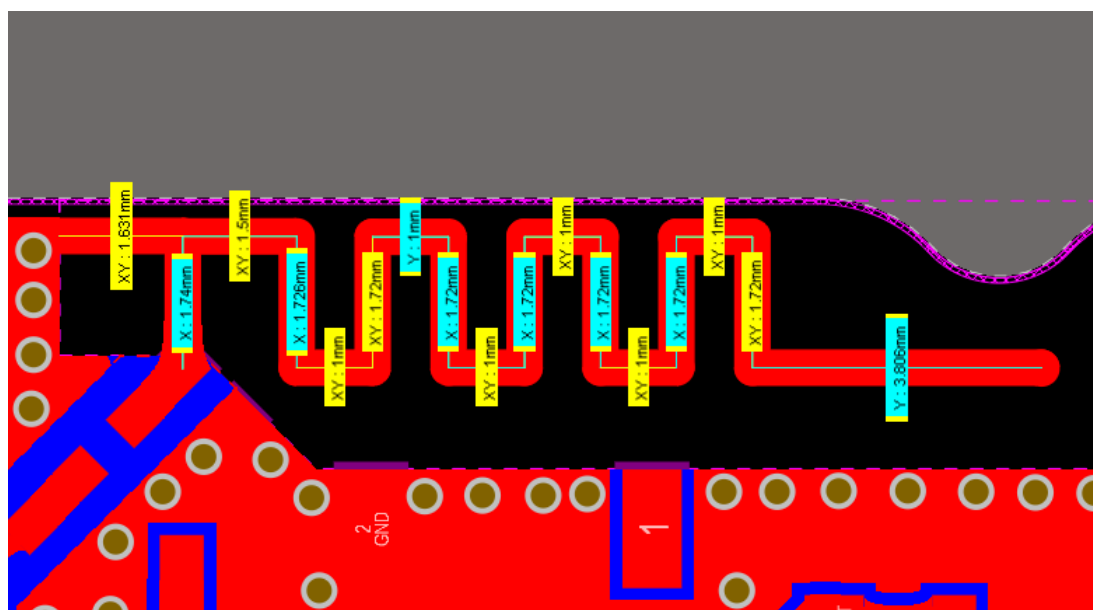
## 1. 規格

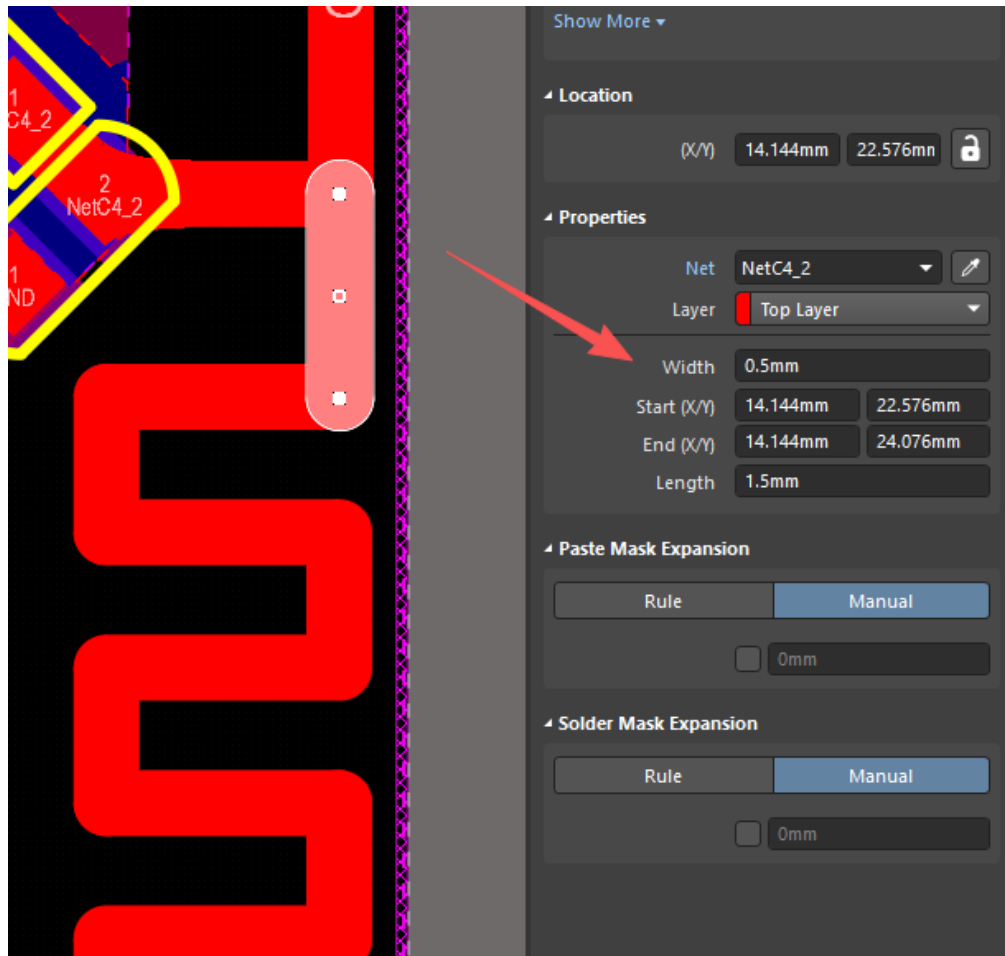
|               |             |
|---------------|-------------|
| EUT Name      | PCB Antenna |
| Wireless type | BLE         |
| Antenna Type  | PCB antenna |
| Dimensions    | Appendix A  |

## 2. Technical Information

|                 |                     |
|-----------------|---------------------|
| Frequency Range | 2400MHz~2480MHz     |
| Test Frequency  | 2400, 2410……2500MHz |

## 3. Appendix A Antenna Dimension



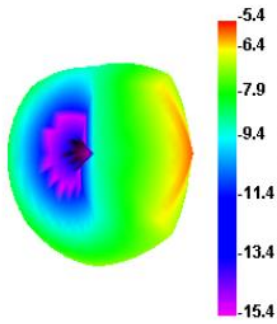


## 4. Appendix C Gain and Efficiency

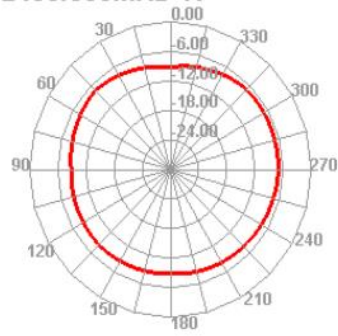
| Passive Test For BT2.4 |          |           |            |            |         |         |          |          |                  |                 |           |           |
|------------------------|----------|-----------|------------|------------|---------|---------|----------|----------|------------------|-----------------|-----------|-----------|
| Freq (MHz)             | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHS (%) | Max (dB) | Min (dB) | irectivity (dBi) | Beamwidth (3dB) | AttH (dB) | AttV (dB) |
| 2400                   | 14.59    | -8.36     | -5.4       | -7.55      | 0       | 0       | -5.4     | -15.03   | 8.36             | 0               | 46.98     | 46.74     |
| 2410                   | 14.93    | -8.26     | -5.29      | -7.44      | 0       | 0       | -5.29    | -15.74   | 8.26             | 0               | 47.02     | 46.81     |
| 2420                   | 15.43    | -8.12     | -4.89      | -7.04      | 0       | 0       | -4.89    | -16      | 8.12             | 0               | 47.61     | 47.33     |
| 2430                   | 16.83    | -7.74     | -4.49      | -6.64      | 0       | 0       | -4.49    | -16.08   | 7.74             | 0               | 47.09     | 46.89     |
| 2440                   | 21.14    | -6.75     | -3.6       | -5.75      | 0       | 0       | -3.6     | -15.35   | 6.75             | 0               | 47.31     | 47.09     |
| 2450                   | 22       | -6.57     | -3.43      | -5.58      | 0       | 0       | -3.43    | -15.13   | 6.57             | 45              | 47.33     | 47.06     |
| 2460                   | 23       | -6.38     | -3.14      | -5.29      | 0       | 0       | -3.14    | -14.84   | 6.38             | 45              | 47.74     | 47.47     |
| 2470                   | 24.35    | -6.13     | -2.9       | -5.05      | 0       | 0       | -2.9     | -14.85   | 6.13             | 0               | 47.62     | 47.29     |
| 2480                   | 26.83    | -5.71     | -2.31      | -4.46      | 0       | 0       | -2.31    | -15      | 5.71             | 0               | 47.53     | 47.33     |
| 2490                   | 35.81    | -4.46     | -0.85      | -3         | 0       | 0       | -0.85    | -14.08   | 4.46             | 0               | 47.51     | 47.26     |
| 2500                   | 34.38    | -4.64     | -0.91      | -3.06      | 0       | 0       | -0.91    | -13.93   | 4.64             | 0               | 47.26     | 47.03     |

## 5. Appendix D Radiation Pattern

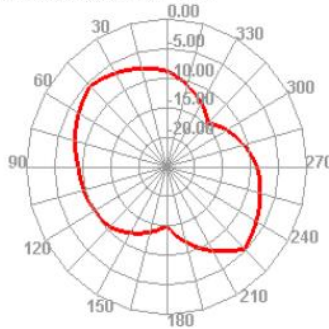
2400.000MHz



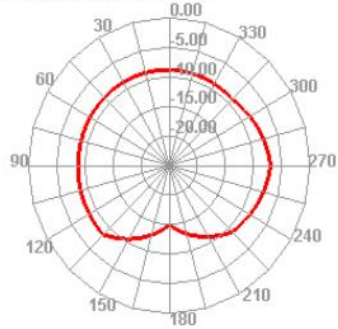
2400.000MHz H



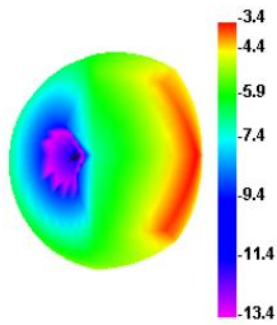
2400.000MHz E1



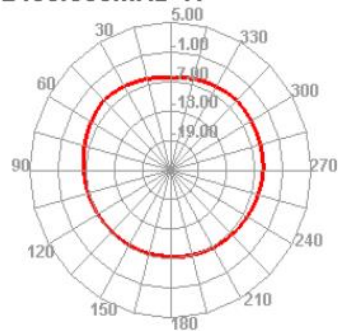
2400.000MHz E2



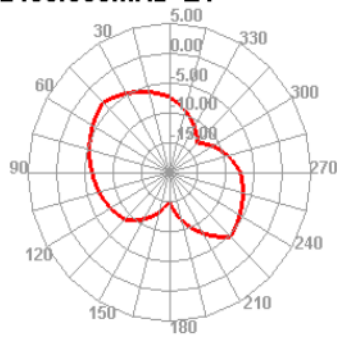
2450.000MHz



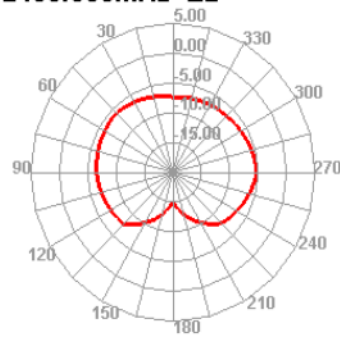
2450.000MHz H



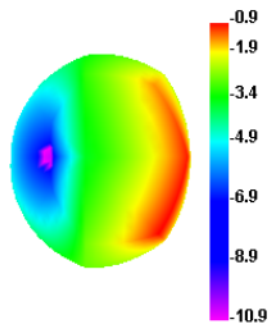
**2450.000MHz E1**



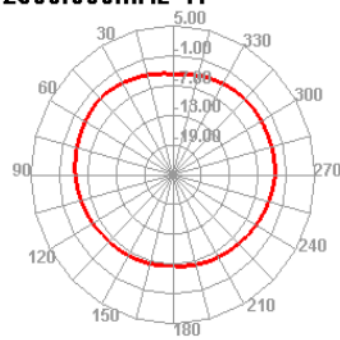
**2450.000MHz E2**



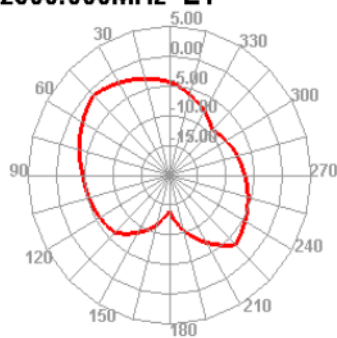
**2500.000MHz**



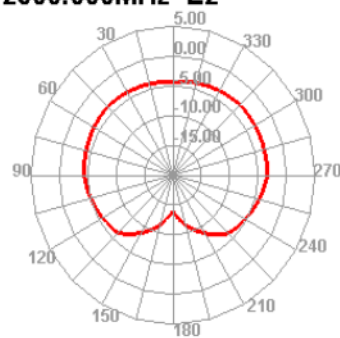
**2500.000MHz H**



**2500.000MHz E1**



**2500.000MHz E2**



Manufacturer: Shenzhen Dequn Quick Circuit Co., Ltd

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