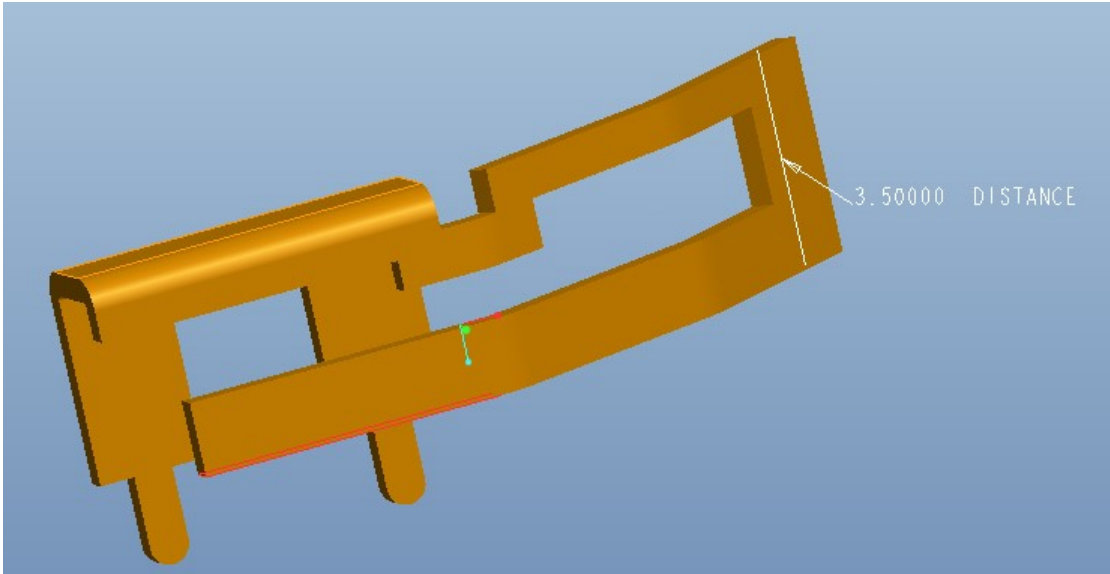


**1、Antenna Information**



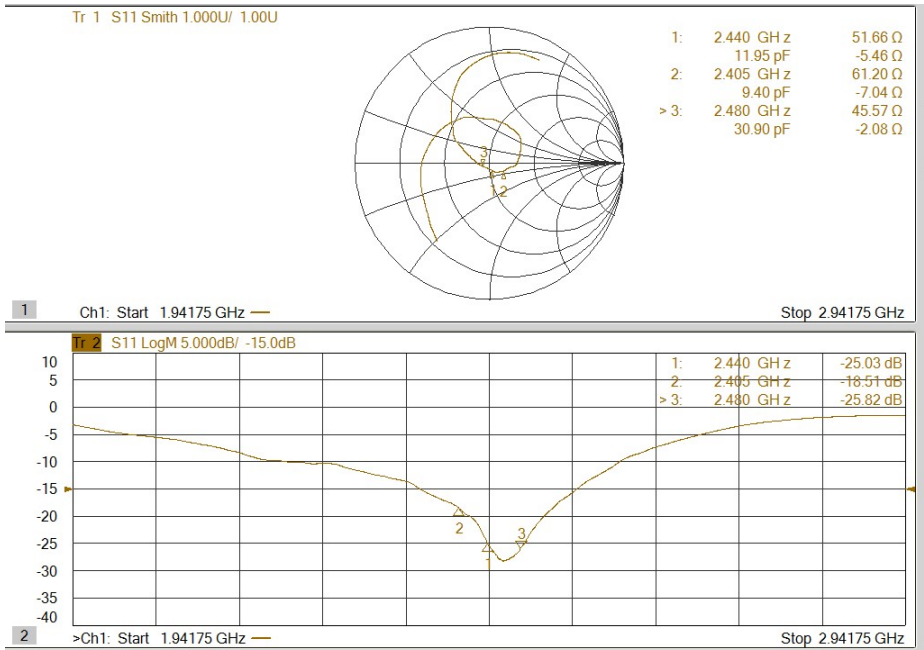
antenna

|               |                                 |
|---------------|---------------------------------|
| Product Model | H1                              |
| Antenna Model | H1-B                            |
| Antenna Type  | PIFA                            |
| Manufacturer  | Lumi United Technology Co., Ltd |

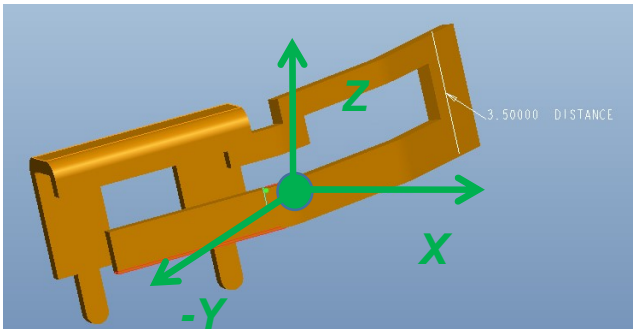
**2、Electrical Specifications**

|                  |                 |
|------------------|-----------------|
| Frequency Range  | 2400~2500MHz    |
| Bandwidth        | 100 MHz         |
| Input Impendence | 50Ω             |
| S11              | ≤ -10 dB        |
| Gain             | Peak Gain 1 dBi |

### 3、Antenna S11



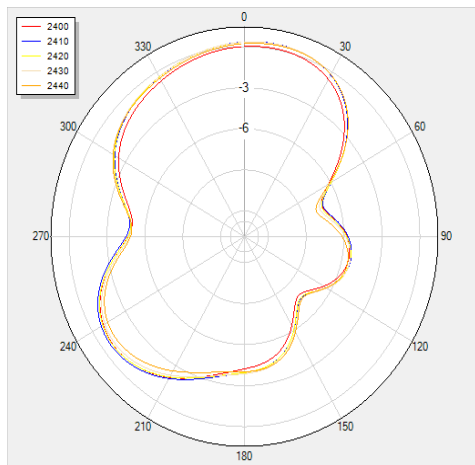
### 4、Plane Definition Radiation



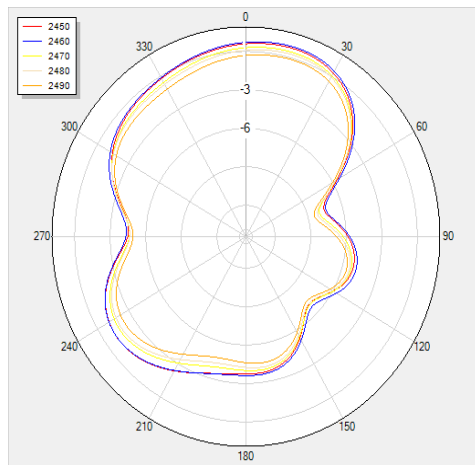
|          |           |
|----------|-----------|
| XY Plane | Theta=90° |
| XZ Plane | Phi=0°    |
| YZ Plane | Phi=90    |

### 5、Pattern

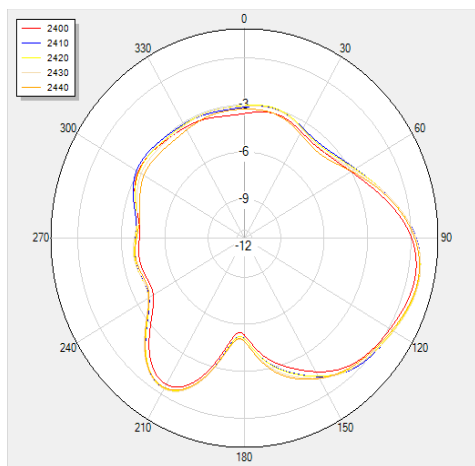
**H Theta=90**



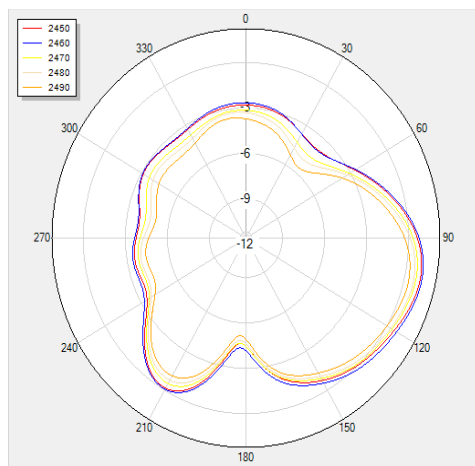
**H Theta=90**



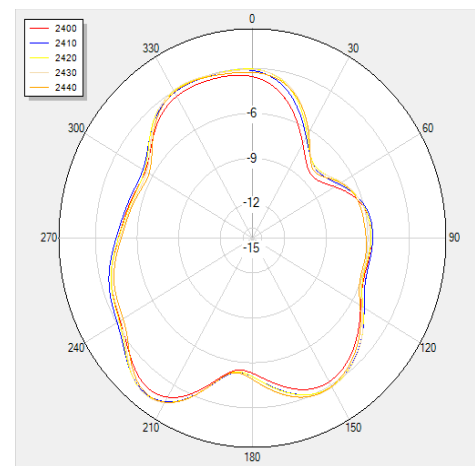
**V Phi=0**



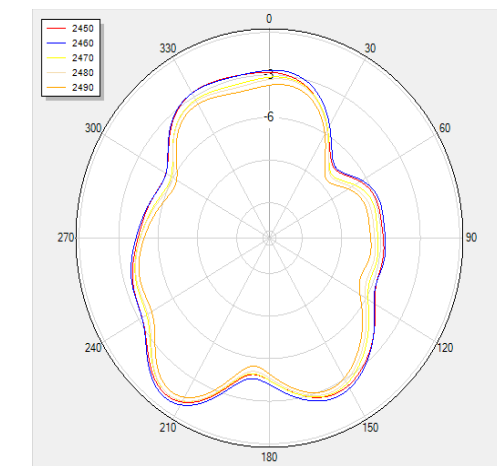
**V Phi=0**



**V Phi=90**



**V Phi=90**



## 6. Test Results

| Frequency ID | Frequency (MHz) | Gain (dBi) | Efficiency (dB) | Efficiency (%) |
|--------------|-----------------|------------|-----------------|----------------|
| 1            | 2400            | 0.45       | -3.96           | 40.2           |
| 2            | 2410            | 0.38       | -3.81           | 41.6           |
| 3            | 2420            | 0.51       | -3.88           | 40.9           |
| 4            | 2430            | 1          | -3.85           | 41.2           |
| 5            | 2440            | 0.45       | -3.86           | 41.1           |
| 6            | 2450            | 0.36       | -3.69           | 42.8           |
| 7            | 2460            | 0.45       | -3.62           | 43.5           |
| 8            | 2470            | 0.48       | -3.70           | 42.7           |
| 9            | 2480            | 0.49       | -3.78           | 41.9           |
| 10           | 2490            | 0.58       | -3.82           | 41.5           |
| 11           | 2500            | 0.43       | -3.93           | 40.5           |