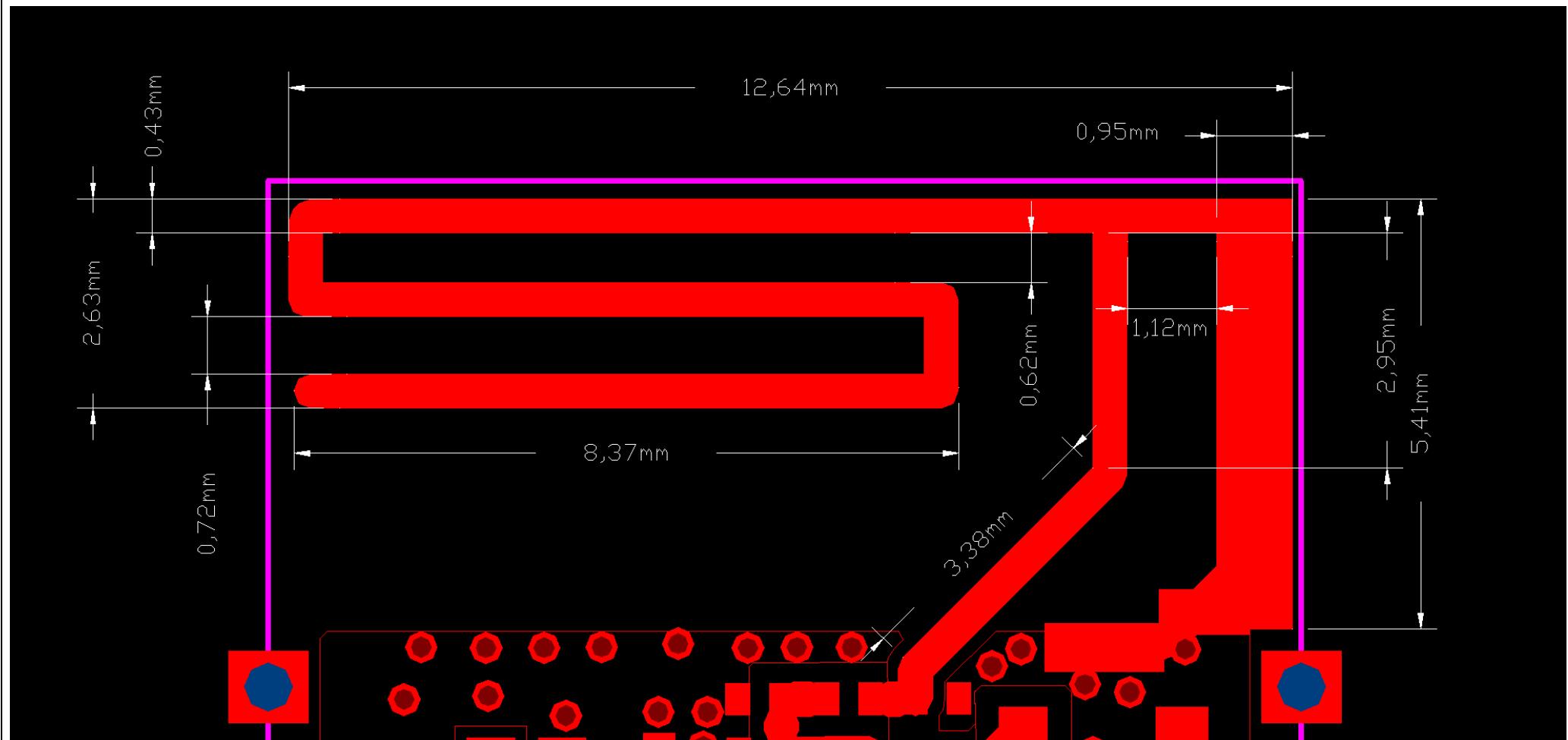


# Antenna Specification

Antenna manufacturer: WIRELESS-TAG TECHNOLOGY CO LIMITED

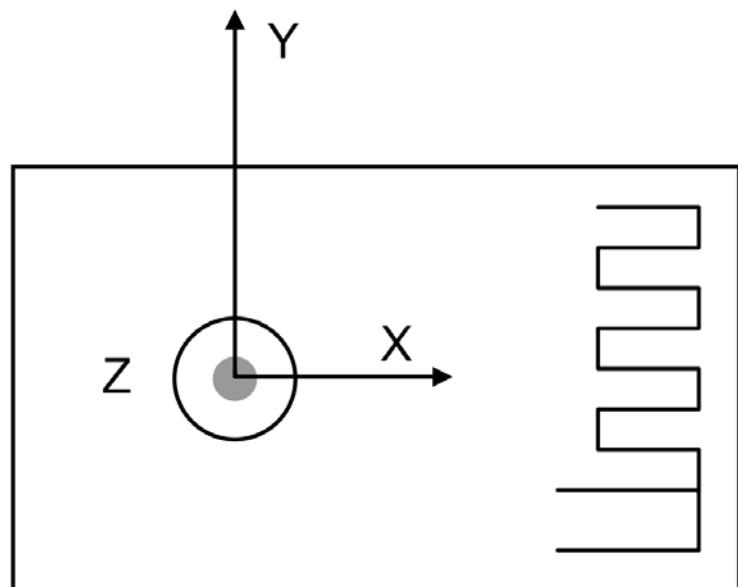
| ITEM                 | SPEC  |
|----------------------|---|
| Antenna type         | PCB Antenna(B)  |
| Center Frequency     | 2400Mhz   -2.12dBi<br>2450Mhz   -0.89dBi<br>2500Mhz   0.42dBi |
| MAX GAIN             | 0.42dbi   |
| Polarization         | Horizontal  |
| Azimuth Beam Pattern | Omni-directional  |
| Impedance            | 50ohm   |
| Antenna Length       | 36mm  |

## Antenna Photo & Length(mm)

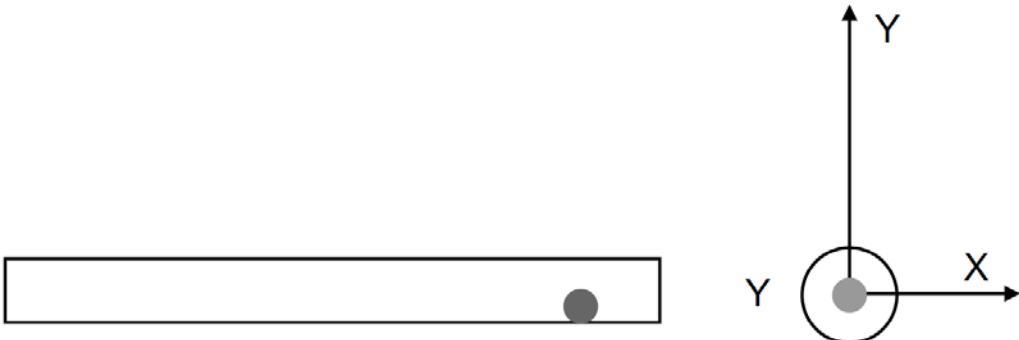


## Coordinate System Reference:Antenna

Top view

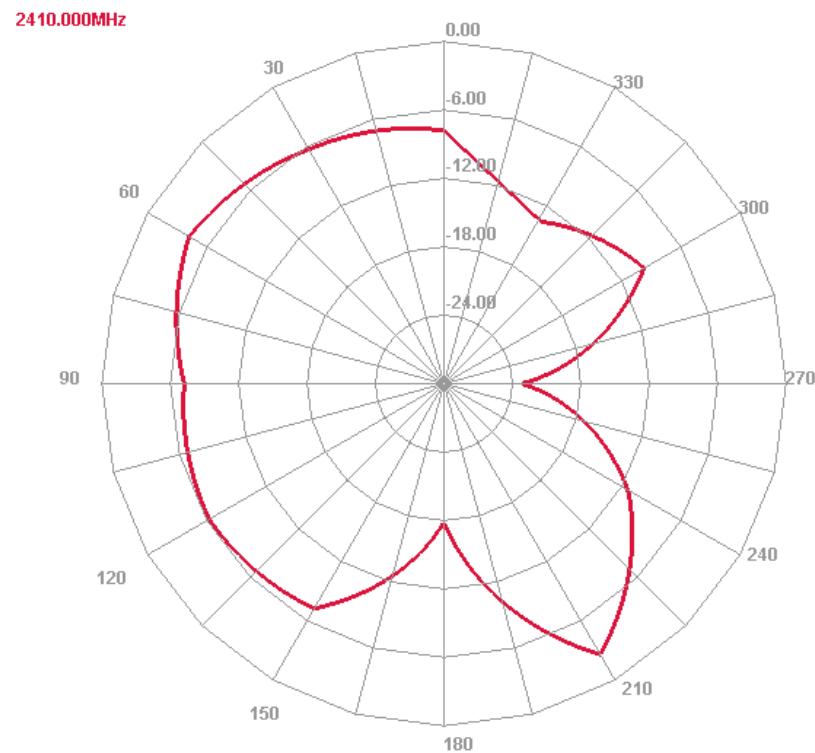


Side view

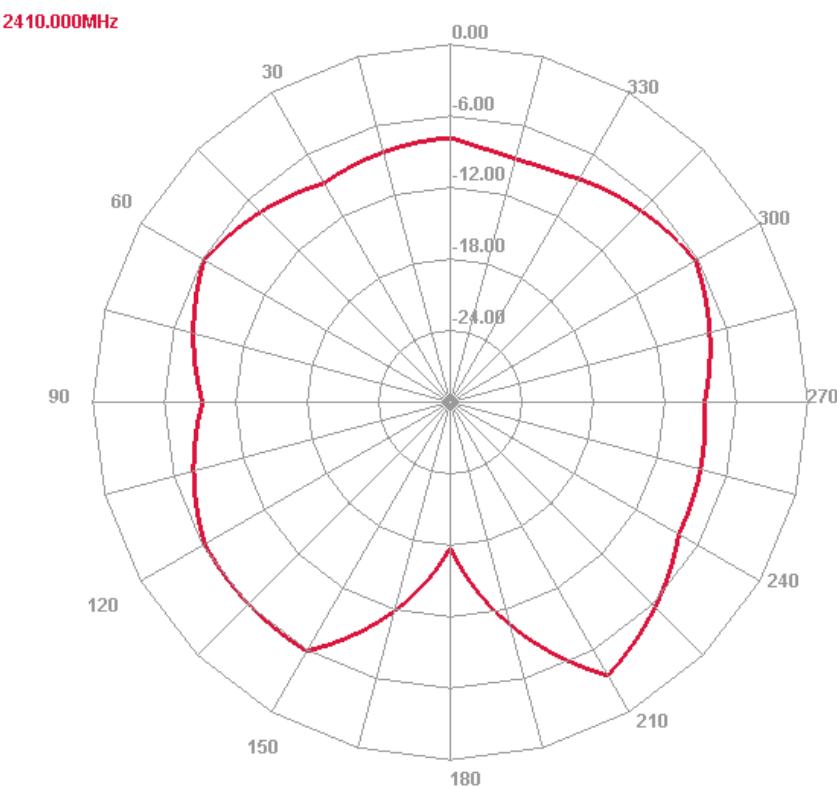


## 2D Radiation pattern $f = 2410\text{MHz}$

**E1 Face**

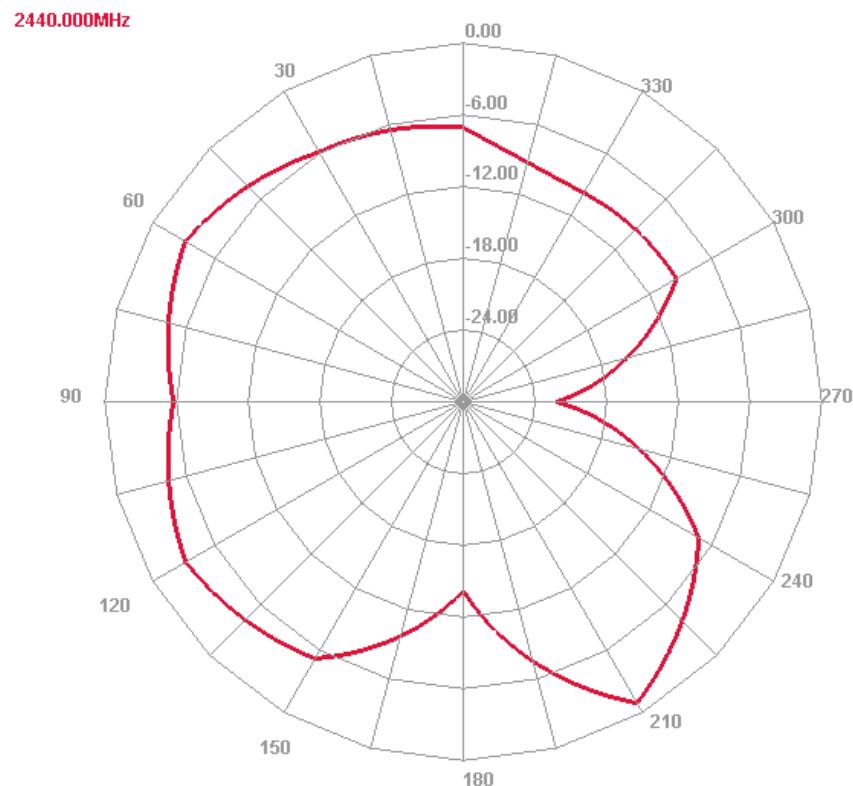


**E2 Face**

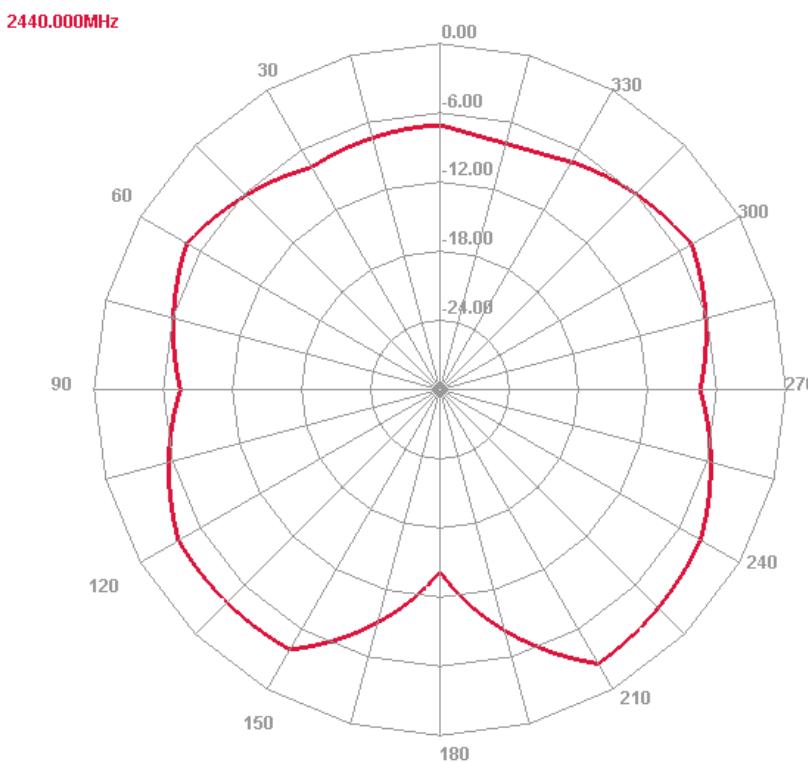


## 2D Radiation pattern $f = 2440\text{MHz}$

**E1 Face**

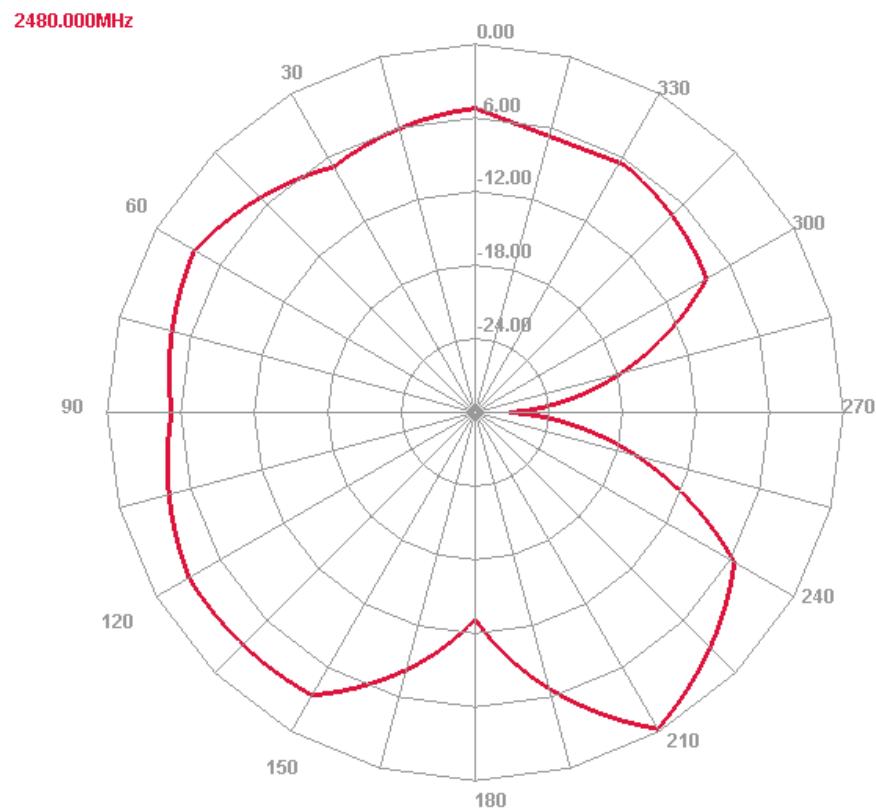


**E2 Face**

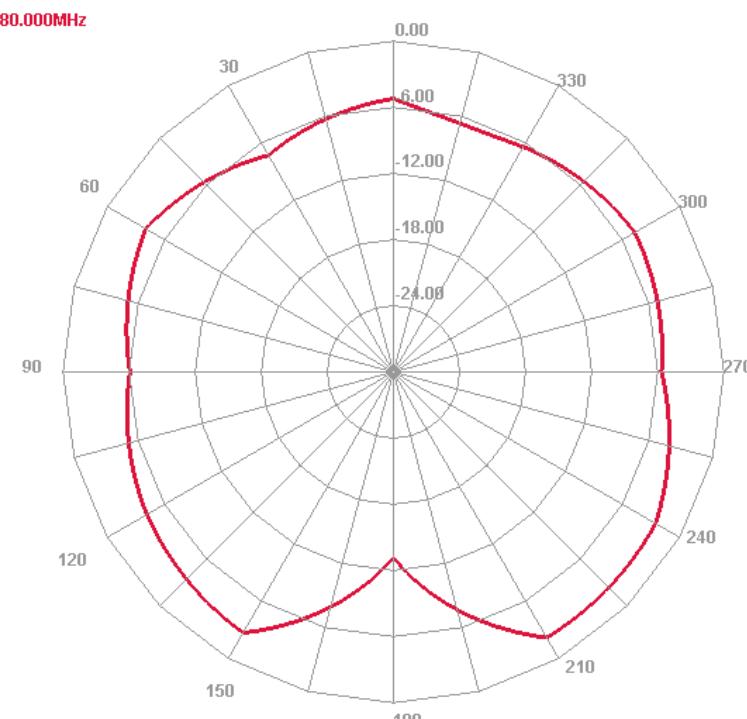


## 2D Radiation pattern $f = 2480\text{MHz}$

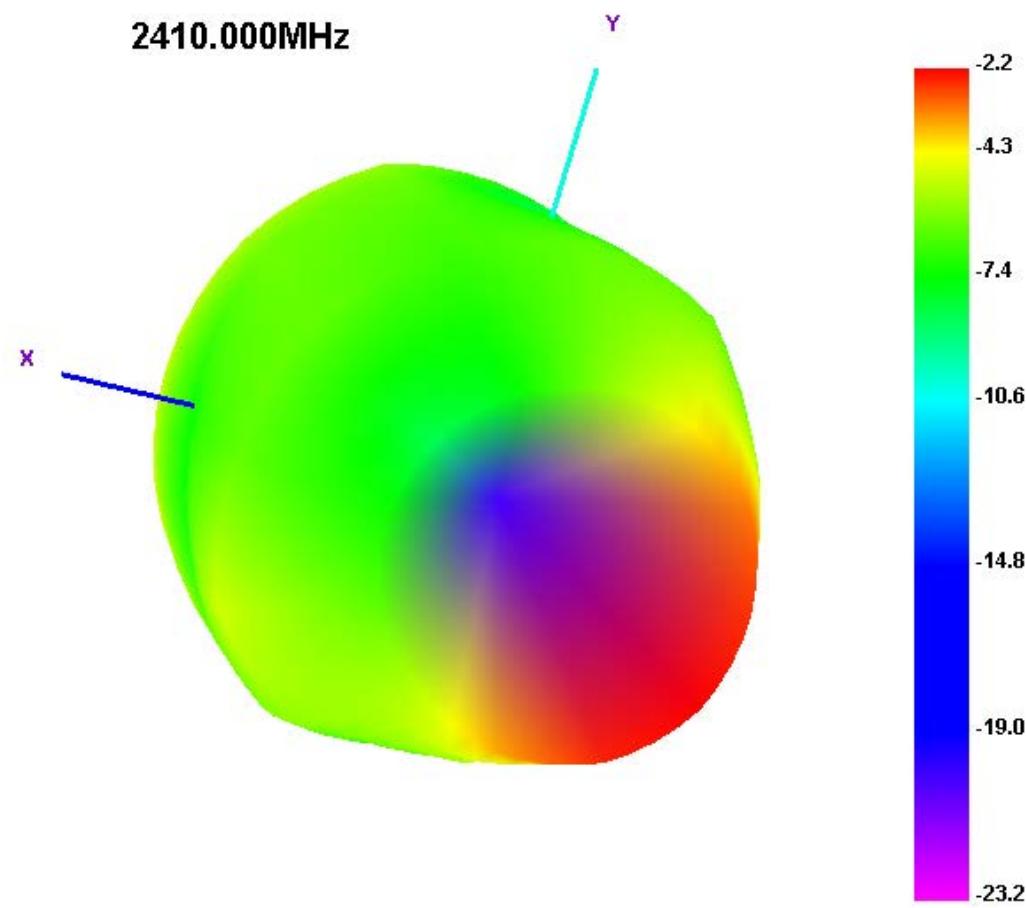
**E1 Face**



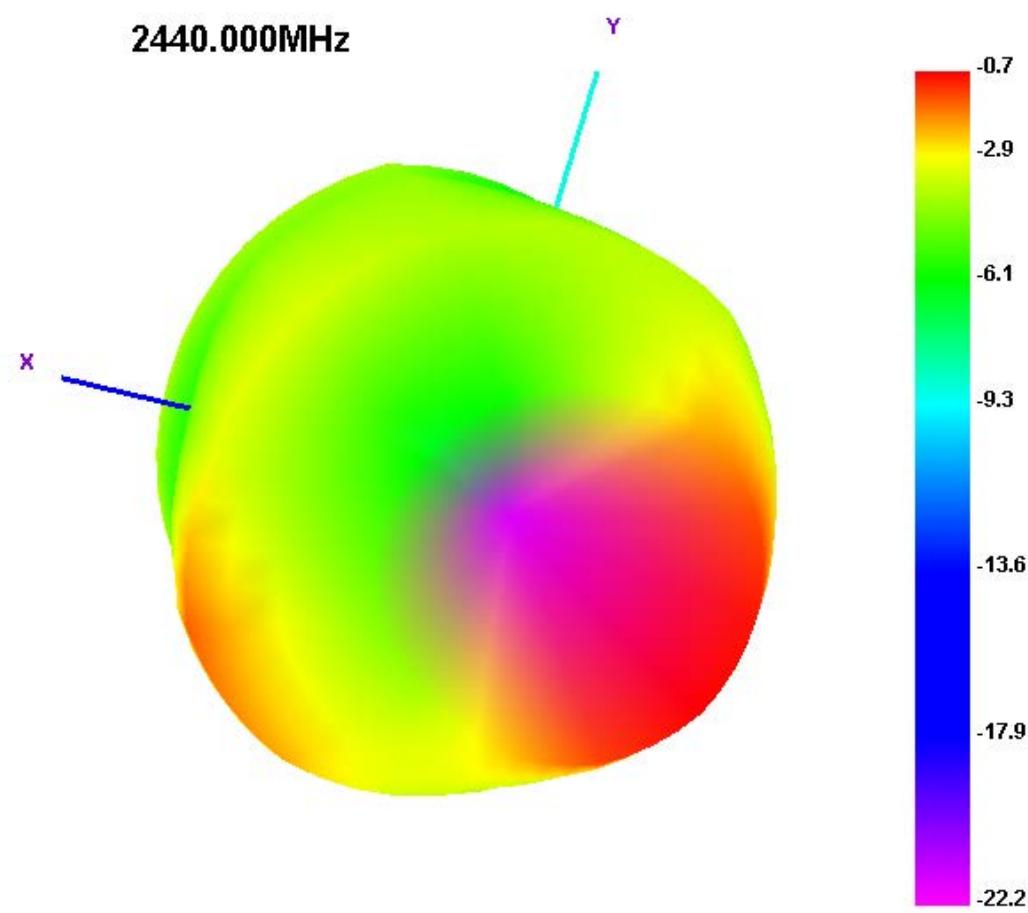
**E2 Face**



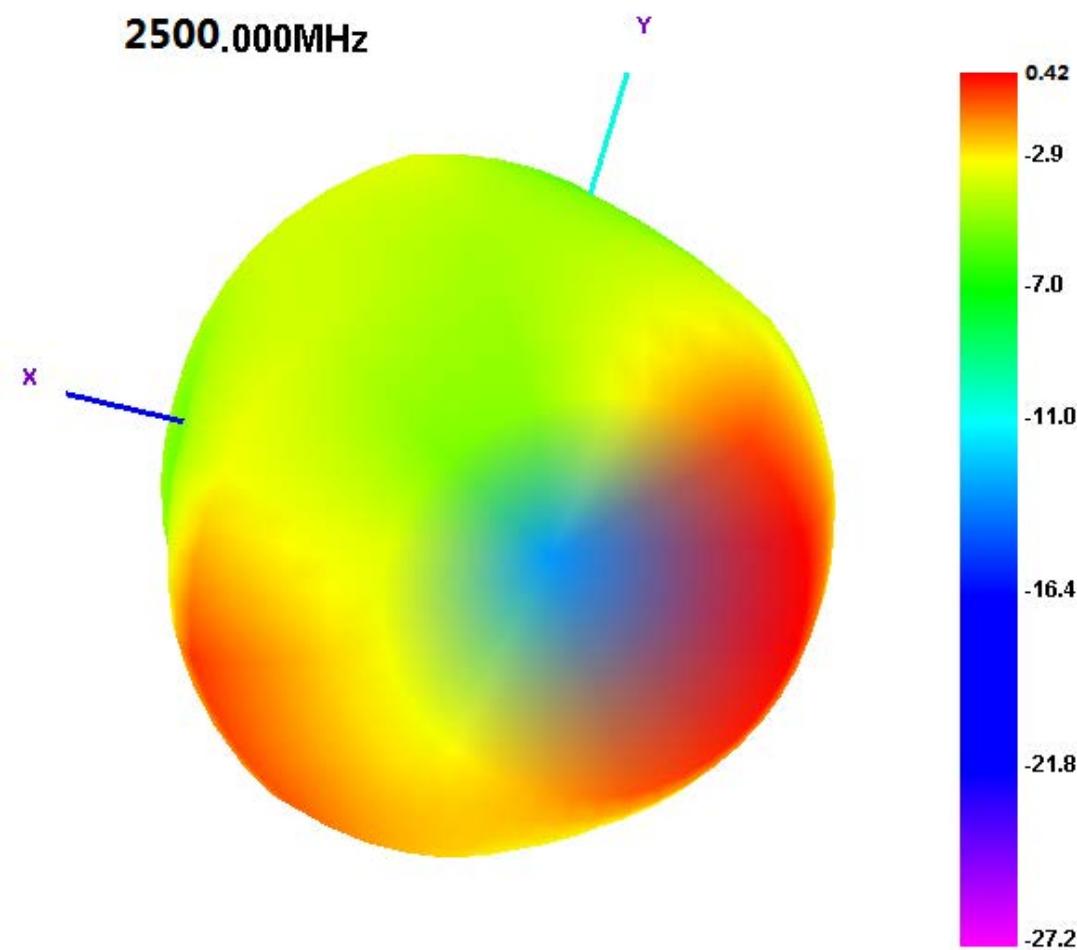
## 3D Radiation pattern $f = 2410\text{MHz}$



## 3D Radiation pattern $f = 2440\text{MHz}$



## 3D Radiation pattern $f = 2500\text{MHz}$



## Measurements summary

| Frequency(GHz) | Gain(dBi) | CP Gain(dBi) | CO Gain(dBi) | Efficiency(dB) | Efficiency(%) |
|----------------|-----------|--------------|--------------|----------------|---------------|
| 2400           | -2.12     | --           | --           | --             | 20            |
| 2410           | -2.17     | --           | --           | --             | 19.91         |
| 2420           | -1.7      | --           | --           | --             | 23.15         |
| 2430           | -1.08     | --           | --           | --             | 27.4          |
| 2440           | -0.74     | --           | --           | --             | 30.24         |
| 2450           | -0.89     | --           | --           | --             | 29.98         |
| 2460           | -0.42     | --           | --           | --             | 33.77         |
| 2470           | -0.73     | --           | --           | --             | 31.49         |
| 2480           | -0.24     | --           | --           | --             | 34.69         |
| 2490           | 0.33      | --           | --           | --             | 38.5          |
| 2500           | 0.42      | --           | --           | --             | 40.13         |

Wireless-Tag Technology Co., Ltd

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