

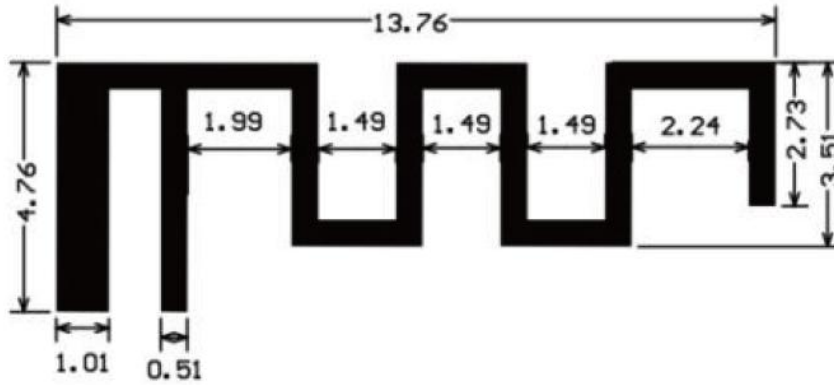
# Antenna spec

## 1.Antenna Description:

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Antenna type    | PCB Antenna                                                               |
| Model           | Z2254-S                                                                   |
| Frequency range | 2400MHz~2450MHz                                                           |
| Manufacturer    | Hangzhou Tuya Information Technology Co.,Ltd                              |
| Address         | Room 701,Building 3,More Center,No.87 GuDun Road.Hangzhou, Zhejiang,China |

## 2. Antenna Photo:

Unit:mm

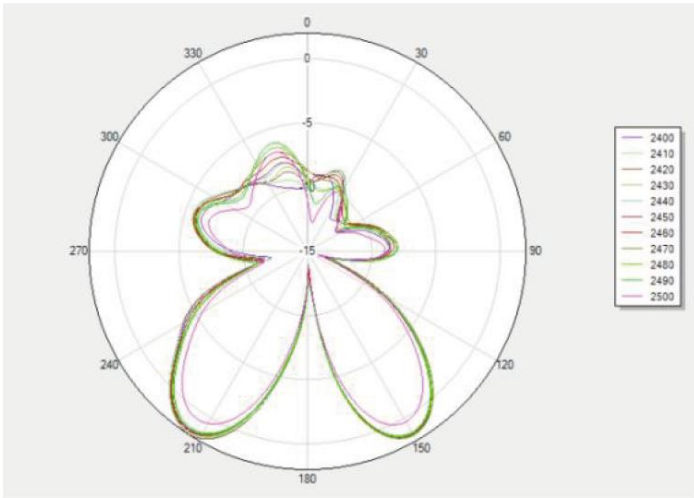


### 3. Antenna Efficiency and Gain:

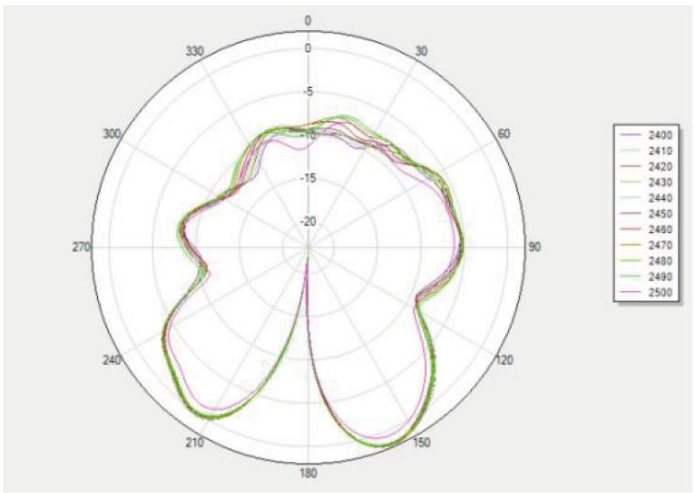
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
|-----------------|-----------------|----------------|
| 2400            | 2.11            | 32.36          |
| 2410            | 2.18            | 32.3           |
| 2420            | 2.21            | 32.1           |
| 2430            | 2.06            | 32.4           |
| 2440            | 2.07            | 32.9           |
| 2450            | 1.91            | 30.9           |
| 2460            | 2.04            | 30.8           |
| 2470            | 2.09            | 30.7           |
| 2480            | 1.98            | 31.6           |
| 2490            | 1.91            | 30.6           |
| 2500            | 1.03            | 30.5           |

# Radiation Pattern

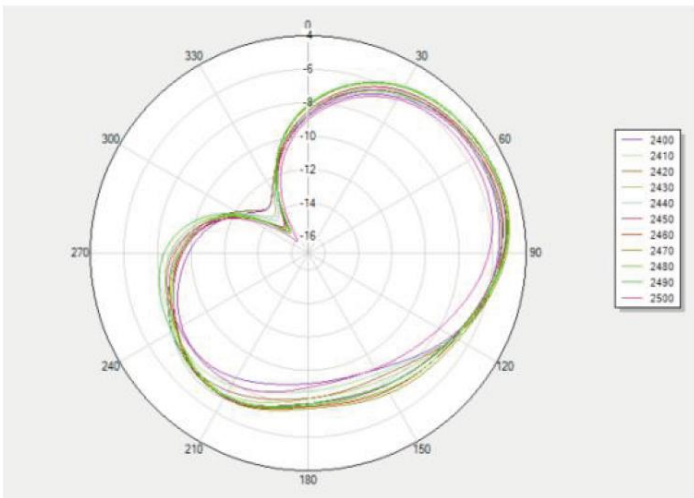
Phi 0 2D



Phi 90 2D



Theta 90 2D



2440MHz 3D

