



# Bluetooth Antenna specification&Test report

Yichip Microelectronics  
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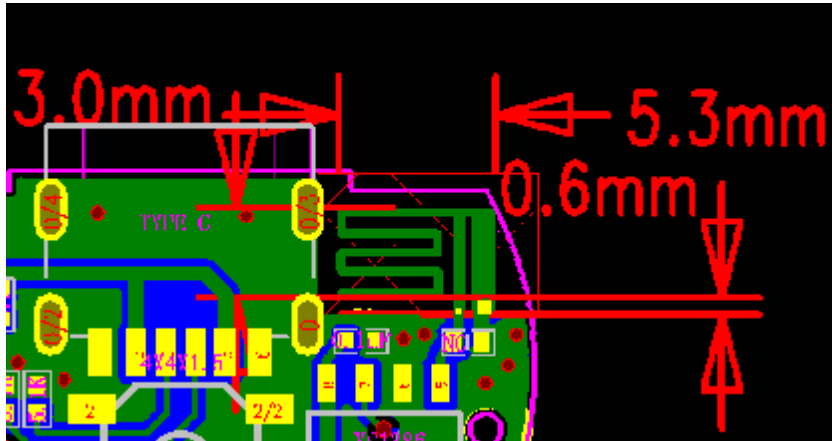
Manufacturer: ShenZhen VIP Technology Co., Ltd  
Address: 301, Building A, No. 2, Tengfeng Third Road, Fenghuang Community,  
Fuyong Street, Baoan District, Shenzhen, Guangdong, China

|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Test Ccompany   | TA Technology (Shanghai) Co., Ltd.                                         |
| Test Address    | Building 1, No. 400, Fangchun Road, China (Shanghai) Pilot Free Trade Zone |
| Test Date       | 2022/7/22                                                                  |
| Test Instrument | Keysight E5071B                                                            |

### antenna design specification

Antenna dimensions as blow picture show: the material is FR4 and the thickness is 0.8mm of PCB.

ANT1:



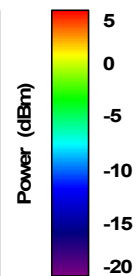
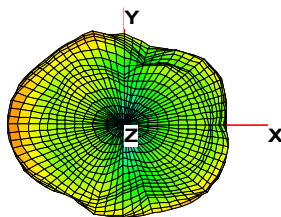
### Gian and Efficiency

| Frequency (MHz) | Efficiency(%) | Gain(dBi) |
|-----------------|---------------|-----------|
| 2300            | 28.41         | -1.40     |
| 2320            | 38.63         | -0.11     |
| 2340            | 42.82         | 0.36      |
| 2360            | 47.04         | 0.41      |
| 2380            | 47.39         | 0.58      |
| 2400            | 53.31         | 0.73      |
| 2420            | 63.69         | 2.10      |
| 2440            | 66.14         | 2.52      |
| 2460            | 64.61         | 2.72      |
| 2480            | 63.93         | 2.79      |
| 2500            | 65.00         | 2.97      |
| 2520            | 60.03         | 2.90      |
| 2540            | 58.27         | 3.12      |

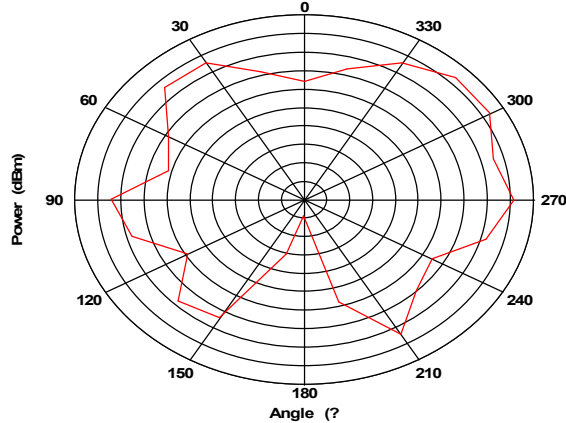
### 3D and 1D Radiation Patterns

# Total

Azimuth = 0.0  
Elevation = 0.0  
Roll = 0.0

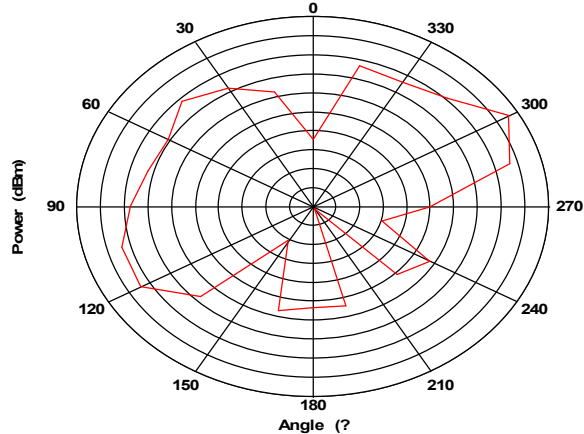


## Cut1



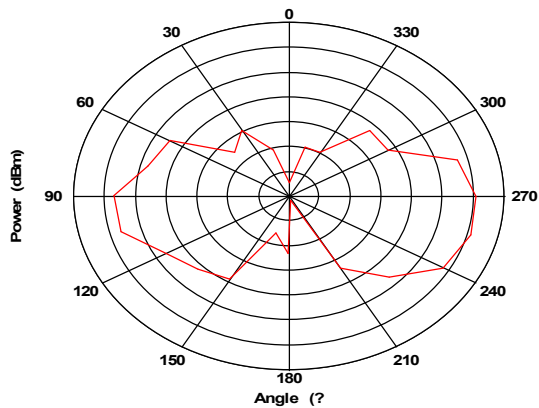
Max: 3  
Min: -7  
Scale: 1/div

## Cut2



Max: 4  
Min: -16  
Scale: 2/div

## Cut3



Max: 4  
Min: -10  
Scale: 2/div