



Bluetooth Antenna  
specification&Test report

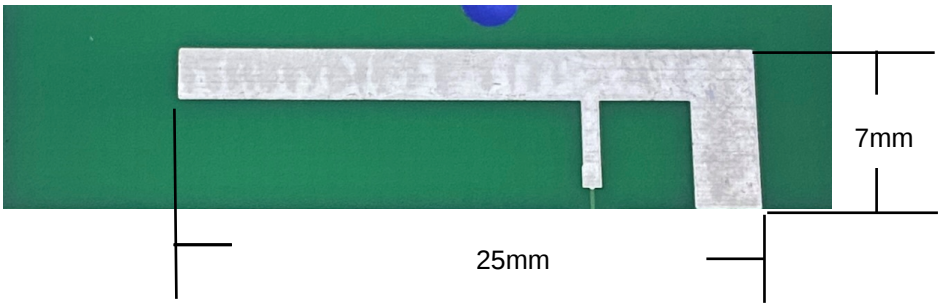
Yichip Microelectronics

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|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Test Ccompany   | TA Technology (Shanghai) Co., Ltd.                                         |
| Test Address    | Building 1, No. 400, Fangchun Road, China (Shanghai) Pilot Free Trade Zone |
| Test Date       | 2020/7/24                                                                  |
| Test Instrument | Keysight E5071B                                                            |

### antenna design specification

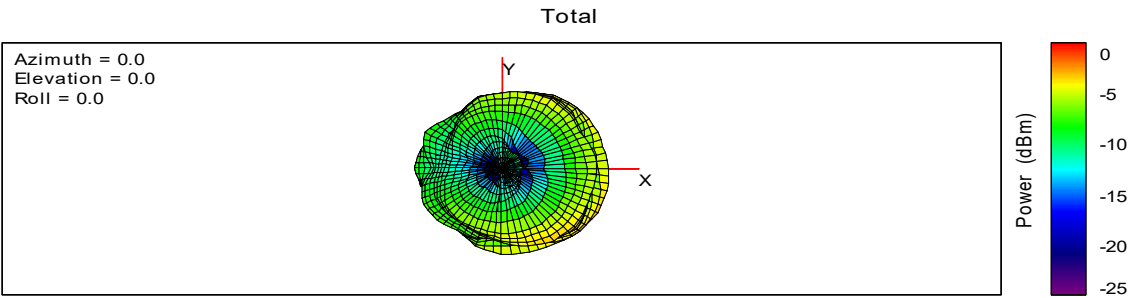
Antenna dimensions as blow picture show: the material is FR4 and the thickness is 1.6mm of PCB.



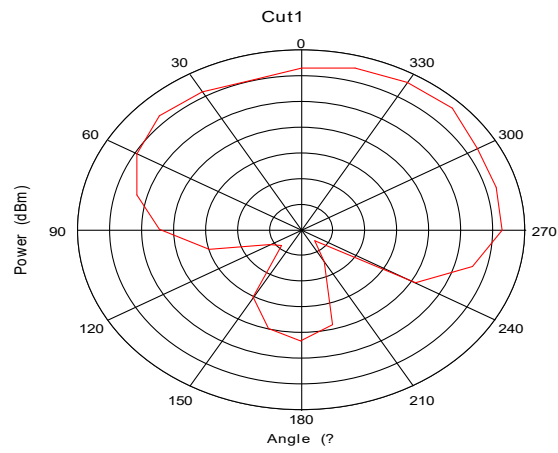
### Gian and Efficiency

| Frequency (MHz) | Efficiency(%) | Gain(dBi) |
|-----------------|---------------|-----------|
| 2402            | 14.86         | -0.93     |
| 2420            | 12.54         | -1.17     |
| 2440            | 9.92          | -2.03     |
| 2460            | 7.46          | -2.47     |
| 2480            | 6.11          | -2.98     |

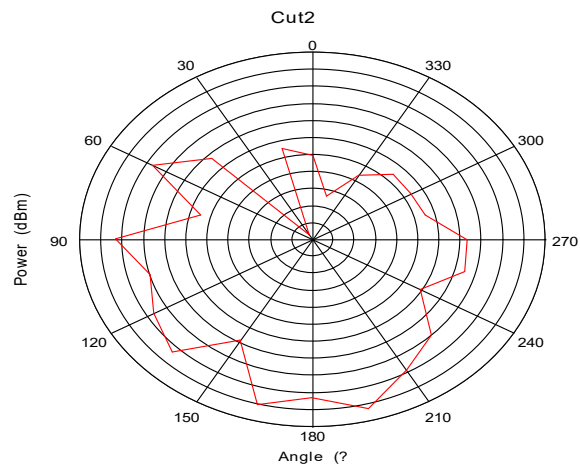
### 3D and 1D Radiation Patterns



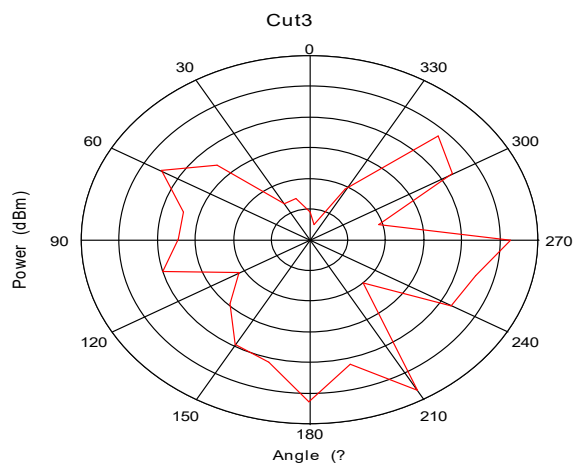
2440M TRP 1



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



Max: 0  
Min: -22  
Scale: 2/div



Max: -2  
Min: -14  
Scale: 2/div