



Bluetooth Antenna specification&Test  
report

Yichip Microelectronics

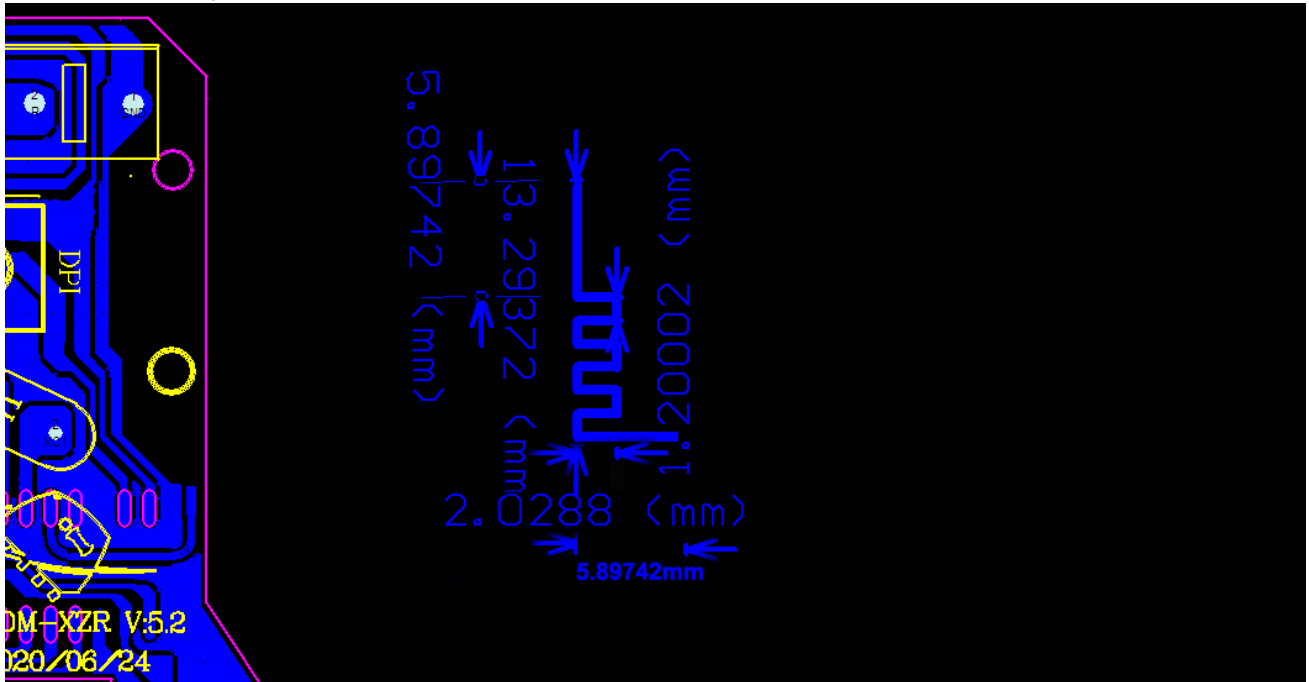
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|                 |  |
|-----------------|--|
| Test Ccompany   | TA Technology (Shanghai) Co., Ltd.   |
| Test Address    | Building 1, No. 400, Fangchun Road, China (Shanghai) Pilot Free Trade Zone |
| Test Date       | 2020/7/24  |
| Test Instrument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

### antenna design specification

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

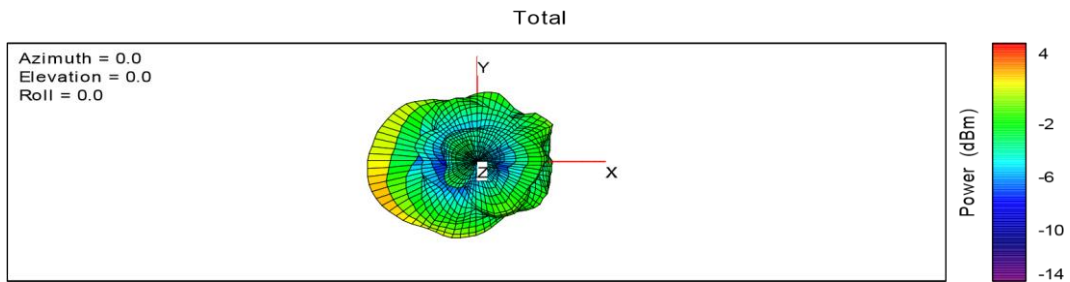
Gian and Efficiency



| Frequency (MHz) | Efficiency(%) | Gain(dBi) |
|-----------------|---------------|-----------|
| 2300            | 12.77         | -2.33     |
| 2320            | 20.15         | -0.40     |
| 2340            | 25.71         | 0.95      |
| 2360            | 30.32         | 1.59      |
| 2380            | 30.90         | 1.63      |
| 2400            | 33.26         | 2.52      |
| 2420            | 38.93         | 3.55      |
| 2440            | 38.73         | 3.34      |
| 2460            | 36.32         | 2.93      |

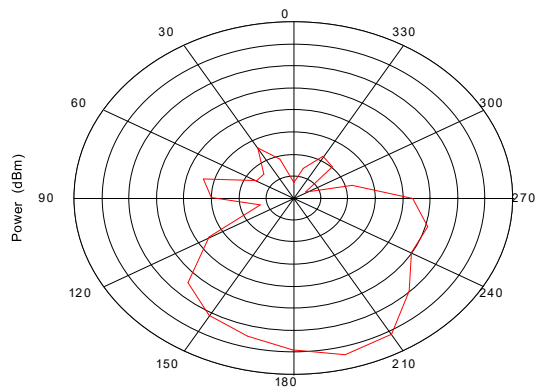
|      |              |             |
|------|--------------|-------------|
| 2480 | <b>35.23</b> | <b>2.87</b> |
| 2500 | <b>35.82</b> | <b>2.53</b> |
| 2520 | <b>33.02</b> | <b>1.93</b> |
| 2540 | <b>31.62</b> | <b>1.42</b> |

### 3D and 1D Radiation Patterns



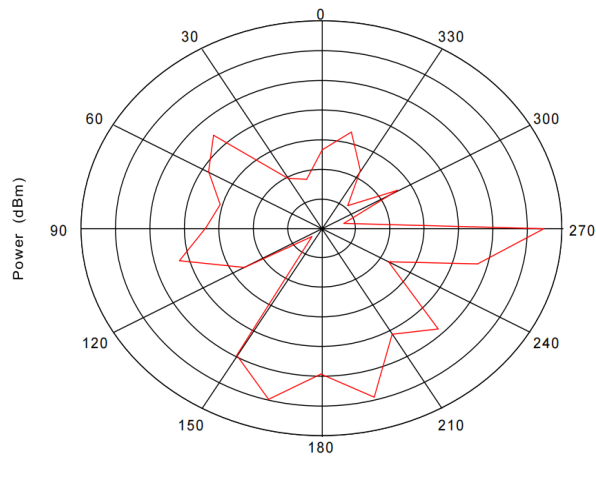
2420MHz

Cut1



2420MHz

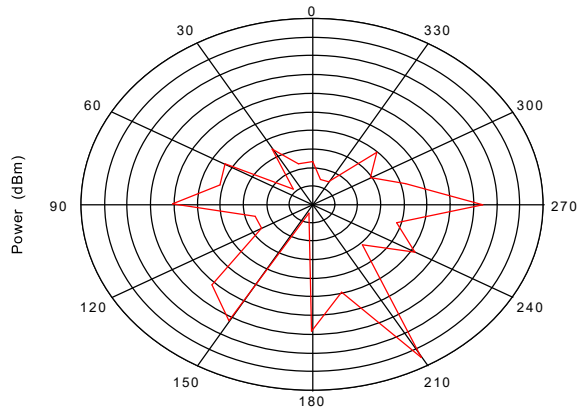
Cut2



2420MHz

Cut3

2420MHz



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