

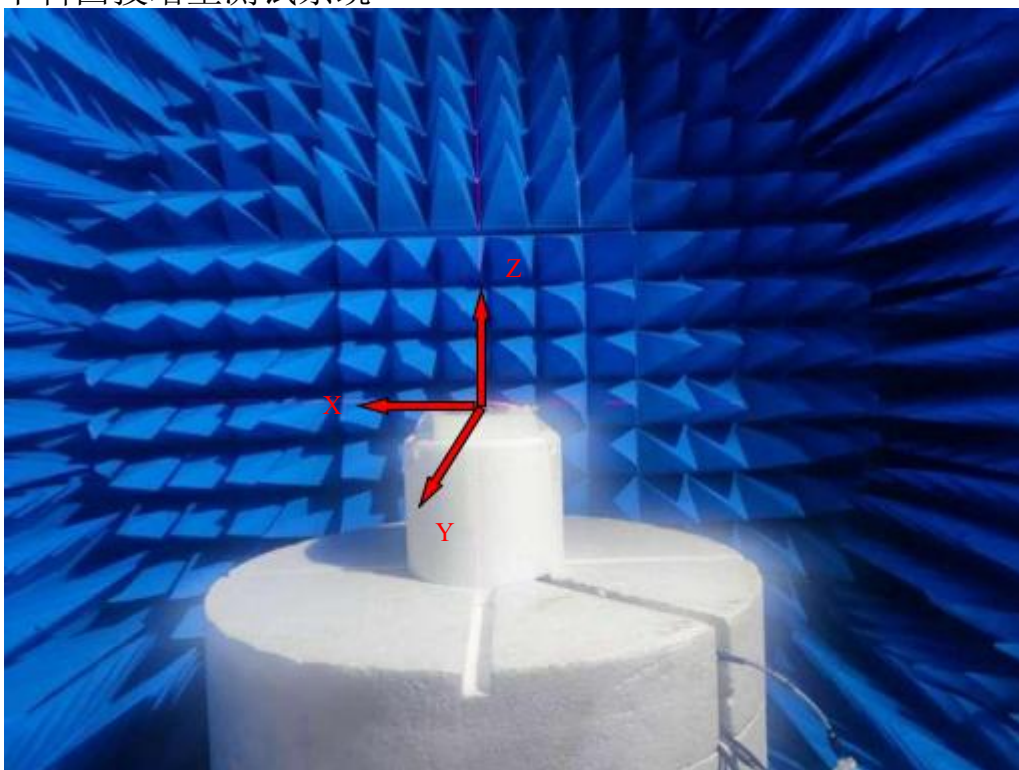
## 2.4G-2.48G 频段板载 PIFA 天线测试报告

### 1. Specification

|                        |                                     |
|------------------------|-------------------------------------|
| Frequency (MHz)        | 2400-2480MHz                        |
| Gain (dBi)             | 6.1dBi                              |
| VSWR                   | <2                                  |
| Impedance ( $\Omega$ ) | 50 $\Omega$                         |
| Antenna Type           | Plannar Inverted F Antenna on board |
| Polarization           | Linear                              |

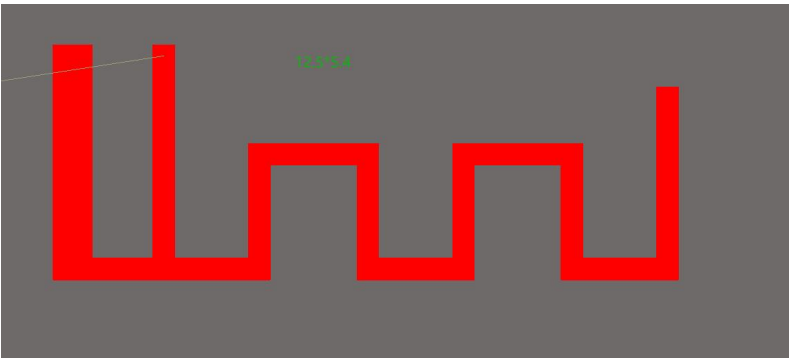
### 2. Test environment

中科国技暗室测试系统



Manufacturer: Puke(Qingxin)Circuit Board Co.,Ltd.  
Manufacturer Address: Qingyuan city Qingxin County  
Shantang industrial Park  
Antenna Model: 2.4G ANT

3. 天线实物及尺寸 (ANT Dimension)



4. 天线有源测试数据 (Antenna active test data)

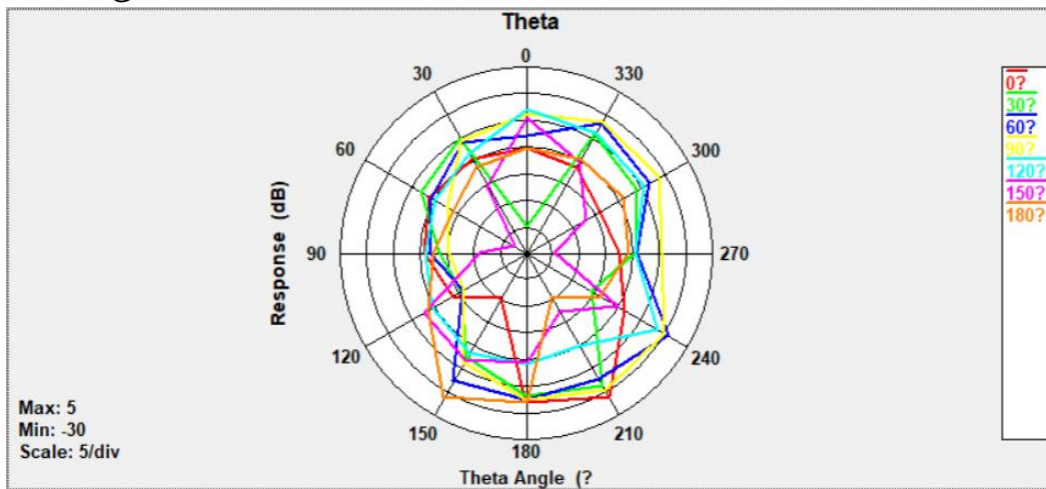
| Frequency (MHz) | Gain (dBi) | Effciency (%) |
|-----------------|------------|---------------|
| 2400            | 5.86       | 78.9%         |
| 2410            | 5.61       | 75.1%         |
| 2420            | 5.62       | 75.2%         |
| 2430            | 6.10       | 82.5%         |
| 2440            | 2.91       | 74.8%         |
| 2450            | 5.66       | 75.7%         |
| 2460            | 5.78       | 77.6%         |
| 2470            | 5.70       | 76.3%         |
| 2480            | 5.94       | 80.2%         |
| Average         | 5.5        | 79%           |
| Peak            | 6.10       | 82.5%         |

## 5. 天线驻波比(Antennastanding wave ratio):

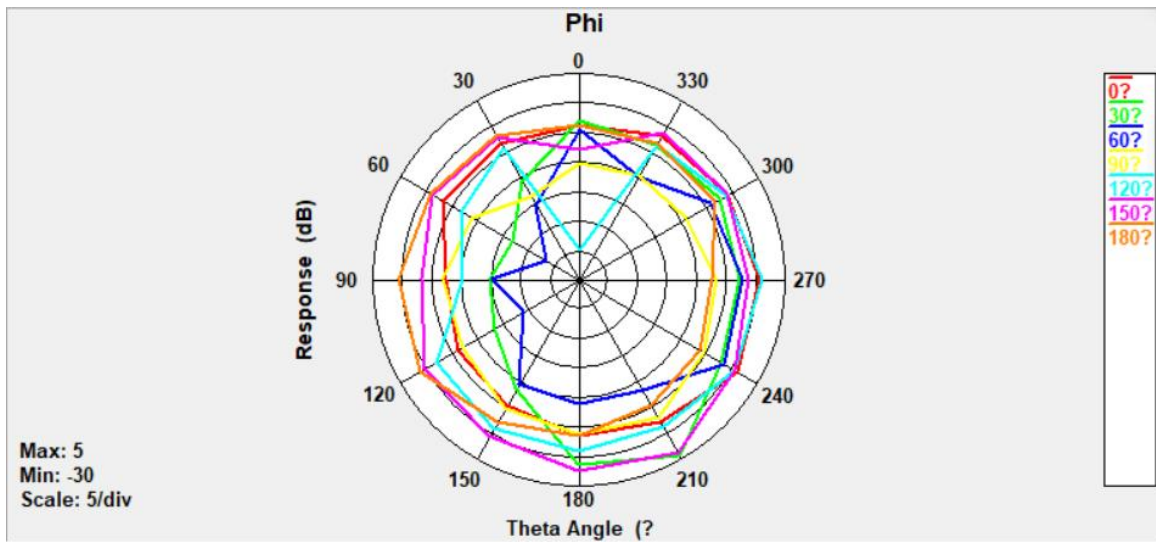
驻波比(VSWR)回波损耗(Return Loss)及史密斯圆图(Smith Chart)



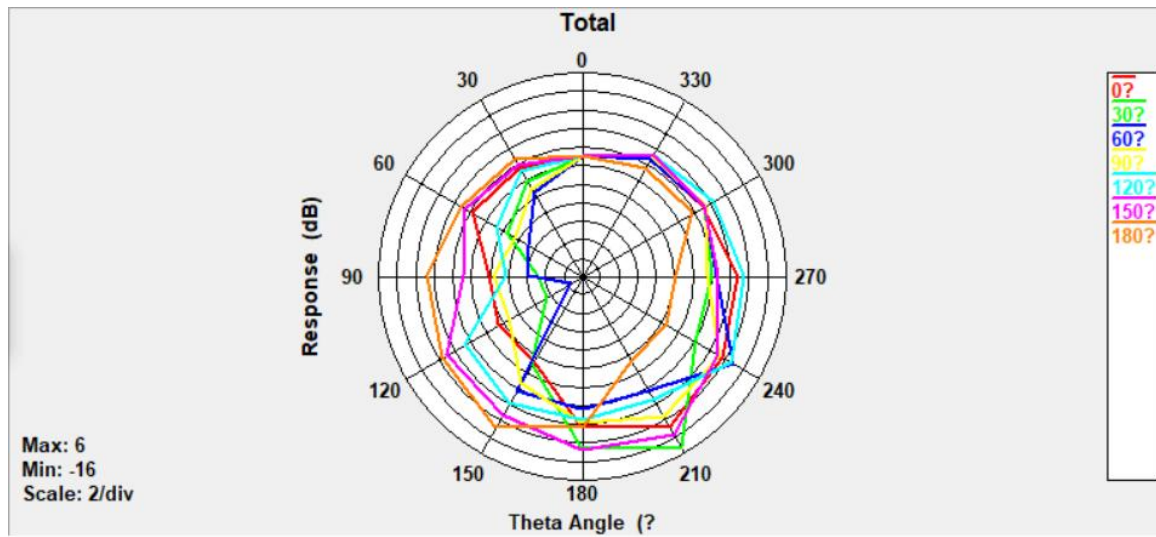
## 5. Theta @2.45 GHz



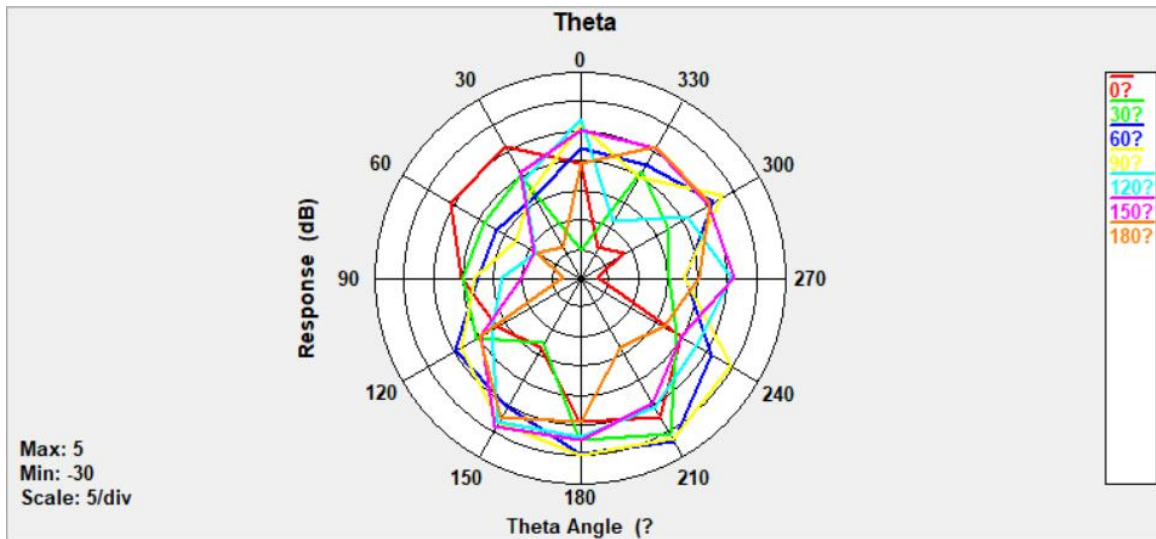
## 6. Phi @2.45 GHz



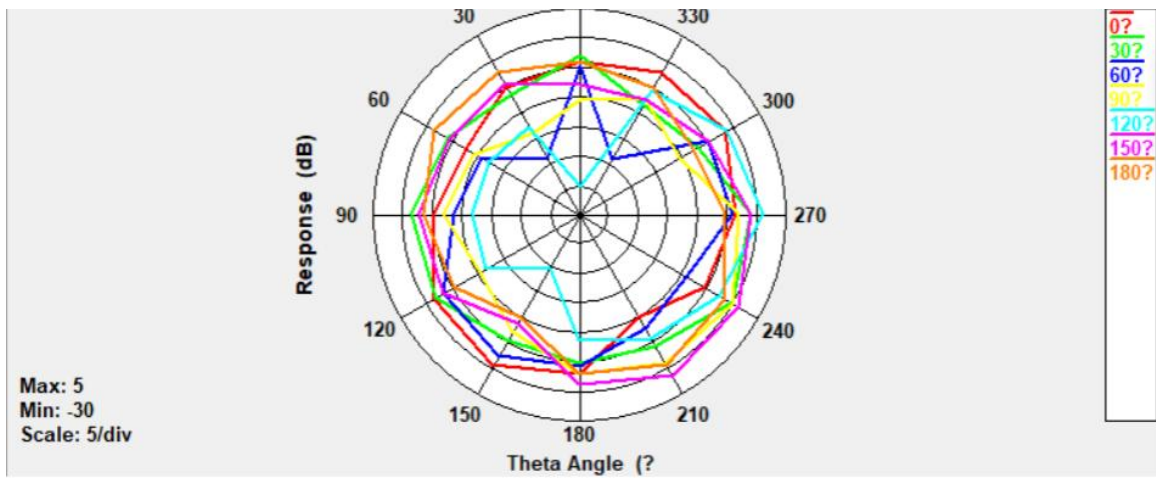
7. Total @2.45 GHz



8. Theta @5.5 GHz



9. Phi @5.5 GHz



#### 10. Total@5.5 GHz

