

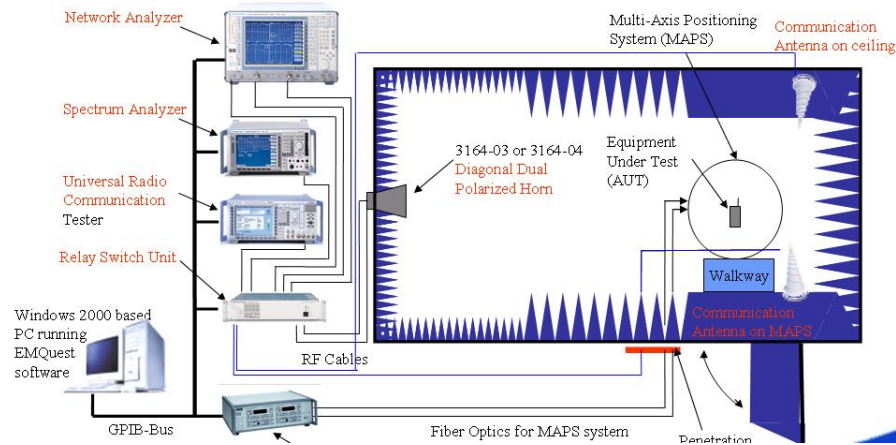
**Shenzhen 3Good Wireless Communication Co., Ltd**

天线性能测试报告  
Antenna performance test report

|                      |                        |
|----------------------|------------------------|
| 客户名称 (Customer name) | TCL Communication Ltd. |
| 项目名称 (Project name)  | T302D T302X            |
| 测试频段 (Test Band)     | GSM850/900/1800/1900   |
| 测试日期 (Test Date)     | 2023. 6. 9             |

1. 天线匹配电路 (Antenna matching circuit):

## 1、 天线测试设备 (Antenna matching circuit):



性能测试报告如下 (The performance test report is as follows):

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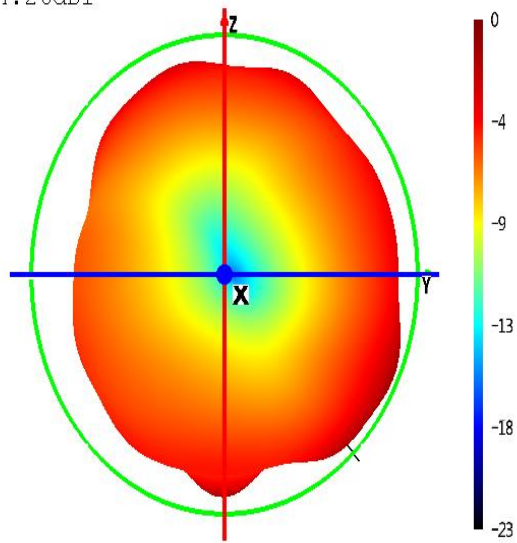
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| 频段 Band | gain<br>平均增益(dBi) |
|---------|-------------------|
| GSM850  | -6.5              |
| GSM900  | -4.3              |
| DCS1800 | -4.5              |
| PCS1900 | -8.6              |
| BT      | -5.9              |

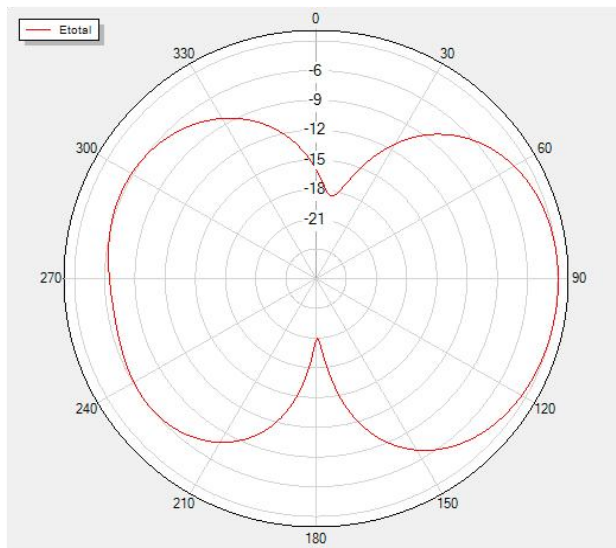
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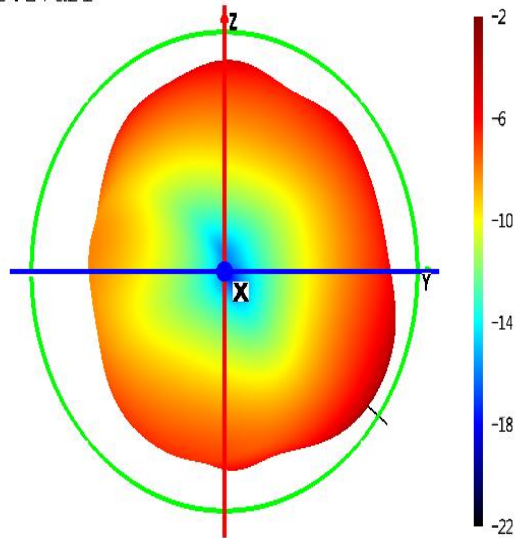
MAX:-0.97dBi  
MIN:-24.26dBi



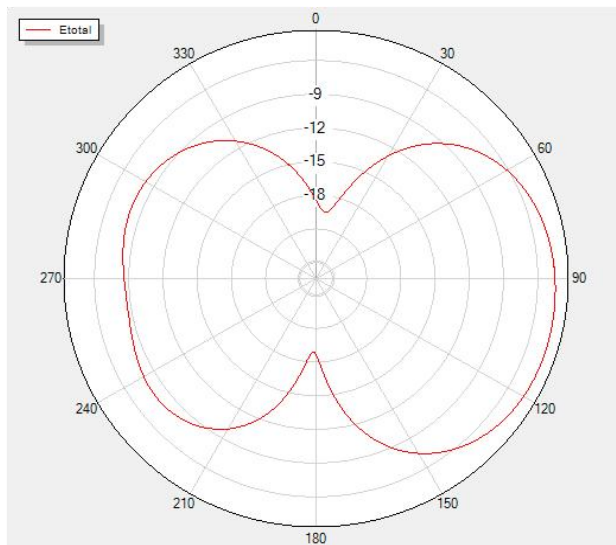
**ta=90 Freq=876.307692307692M**



MAX:-2.66dBi  
MIN:-23.27dBi



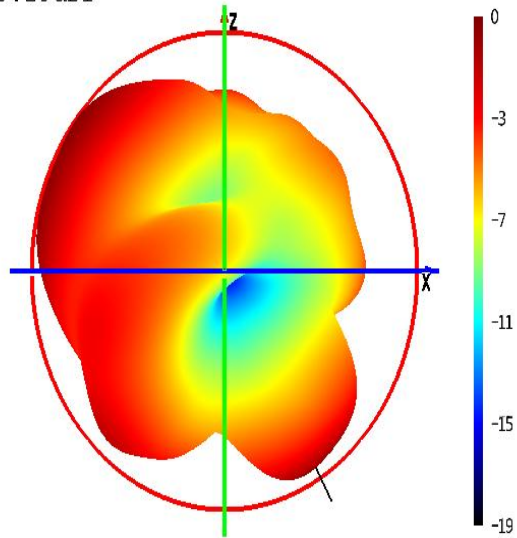
**ta=90 Freq=928.615384615385M**



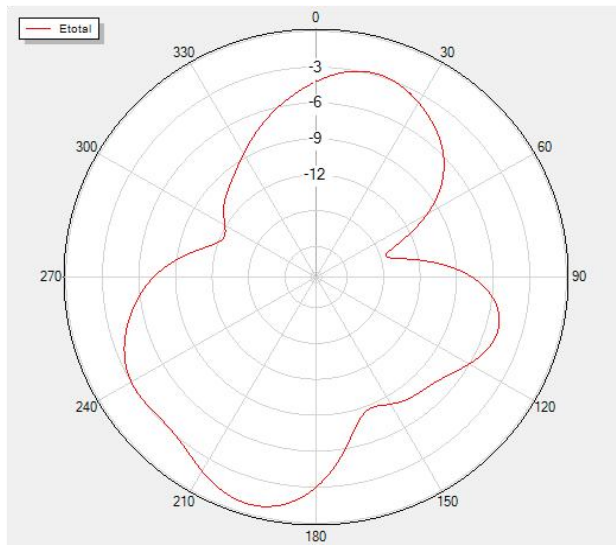
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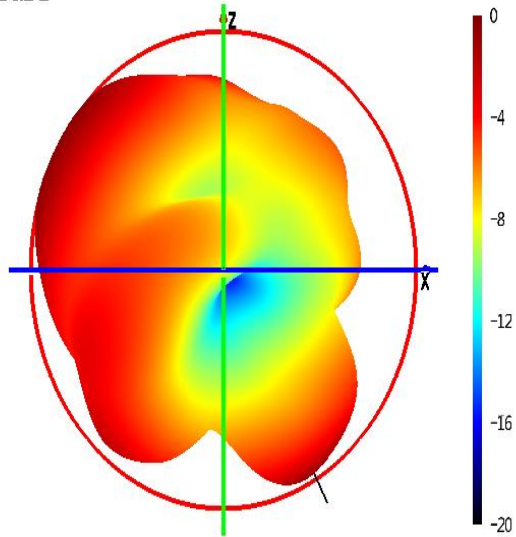
MAX:-0.06dBi  
MIN:-19.29dBi



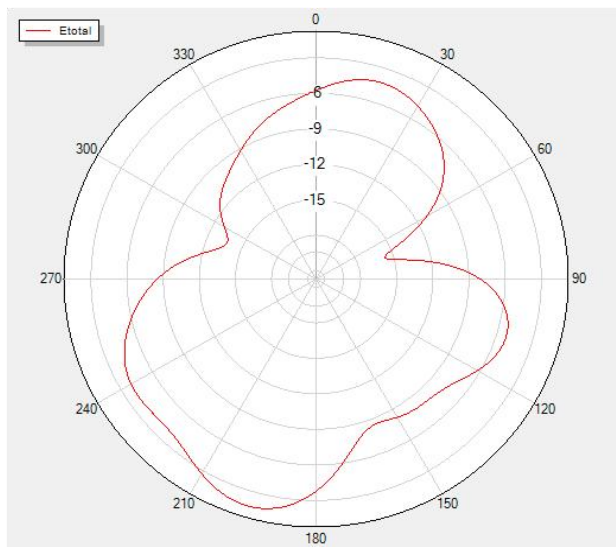
**Theta=90 Freq=1770MHz**



MAX:-0.58dBi  
MIN:-21dBi



**Theta=90 Freq=1800MHz**

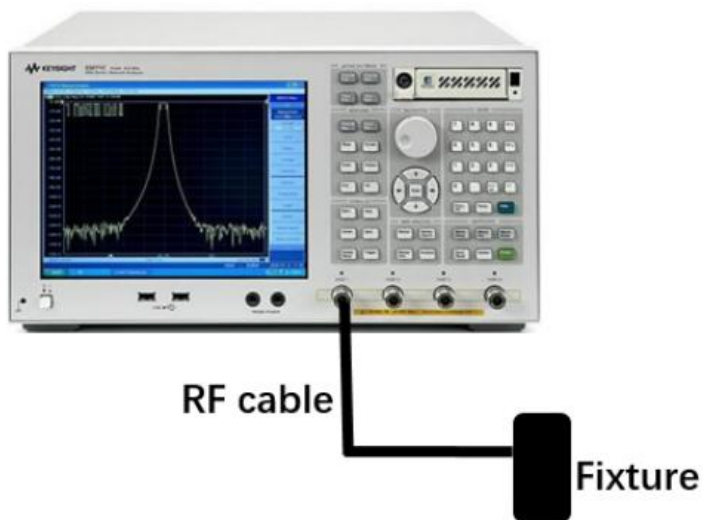


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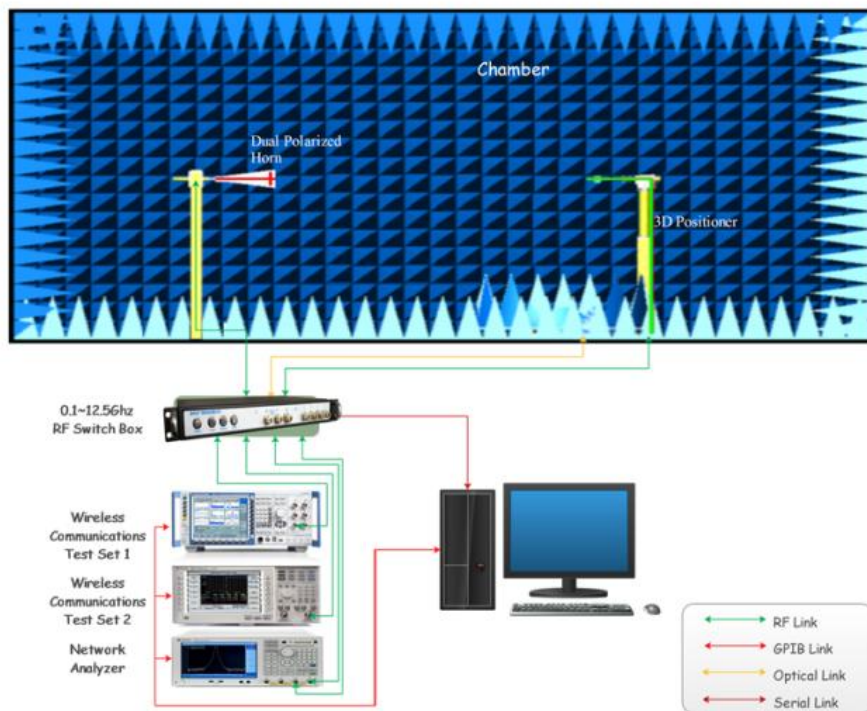
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1.1 测试方法和测试设备 (Test method and test equipment)

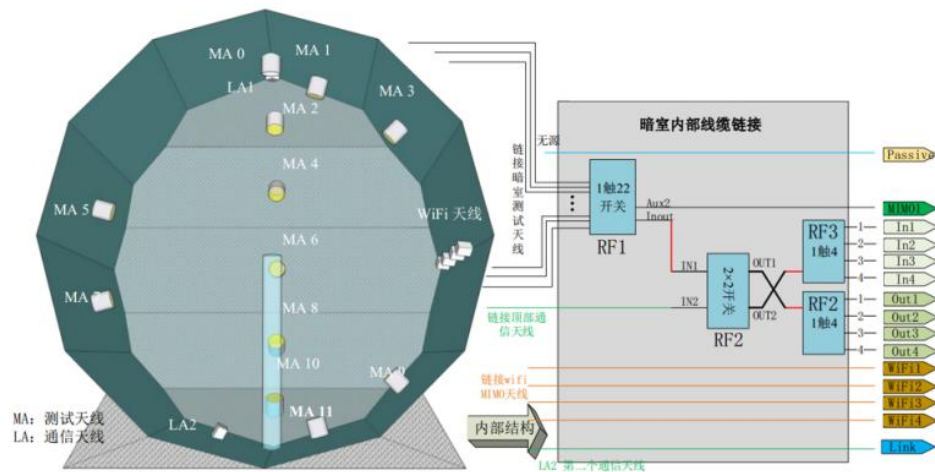
1.1.1 S11 测试 (S11Test)



1.1.2 增益/效率 (Effi./Gain) & 有源 (Trp/Tis)



### 1.1.3 单探头测量系统 (Single probe measurement system)



### 1.1.4 测试暗室图片 (Test the darkroom picture)

