

APPROVAL SHEET

客户名称 CUSTOMER : 昊之源 Hollyland

名称 NAME : W3388 内置 FPC 天线 The W3388 has a built-in FPC antenna

物料代码 PART CODE :

规格型号 MODEL NO :

日期 DATE : 2023.04.07

| 制作 drawing | 审核 check | 批准 approved |
|---------------|-------------|----------------|
| 黄勇军 | | |



客户承认 Customer Approve

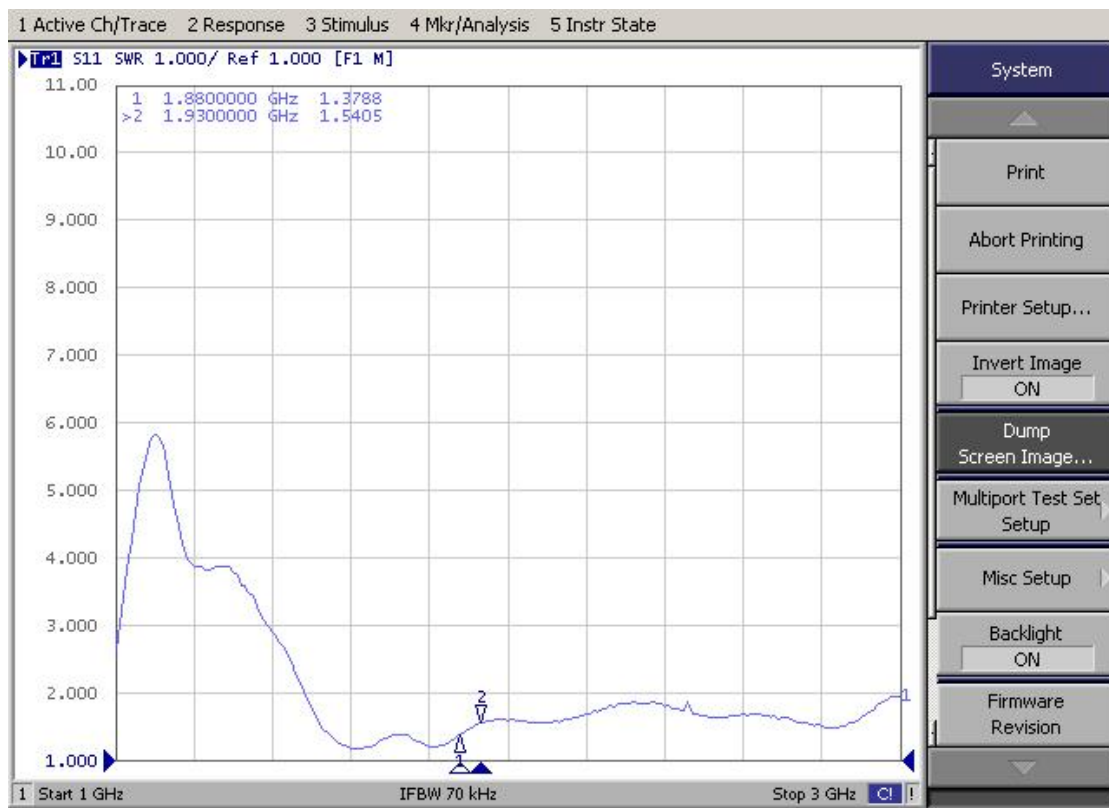
| 审核 check | 批准 approved | 承认 approval |
|-------------|----------------|----------------|
| | | |

电性能指标 Electrical Performance Index

| 电 器 性 能 指 标 | | Electrical Specifications | |
|----------------------|--|---------------------------|--|
| 频率范围 Frequency range | | 1880-1930MHZ | |
| 电压驻波比 | ≤ 2.0 | VSWR | ≤ 2.0 |
| 增益 | $\leq 3.94\text{DBI}$ | GAIN | $\leq 3.94\text{DBI}$ |
| 辐射方式 | 全向 | Radiation | OMNI |
| 极化方式 | 线极化 | Polarizatin | LINEAR |
| 输入阻抗 | 50 Ω | Input Impedance | 50 Ω |
| 机 械 性 能 指 标 | | Mechanical Specifications | |
| 接口形式 | | Input connector | |
| 天线材质 | FPC | Antenna materia | FPC |
| 工作温度 | -40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$ | Working Tempera ture | -40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$ |
| 工作湿度 | 40~85% | Working Humidit y | 40~85% |

测试报告 Test report

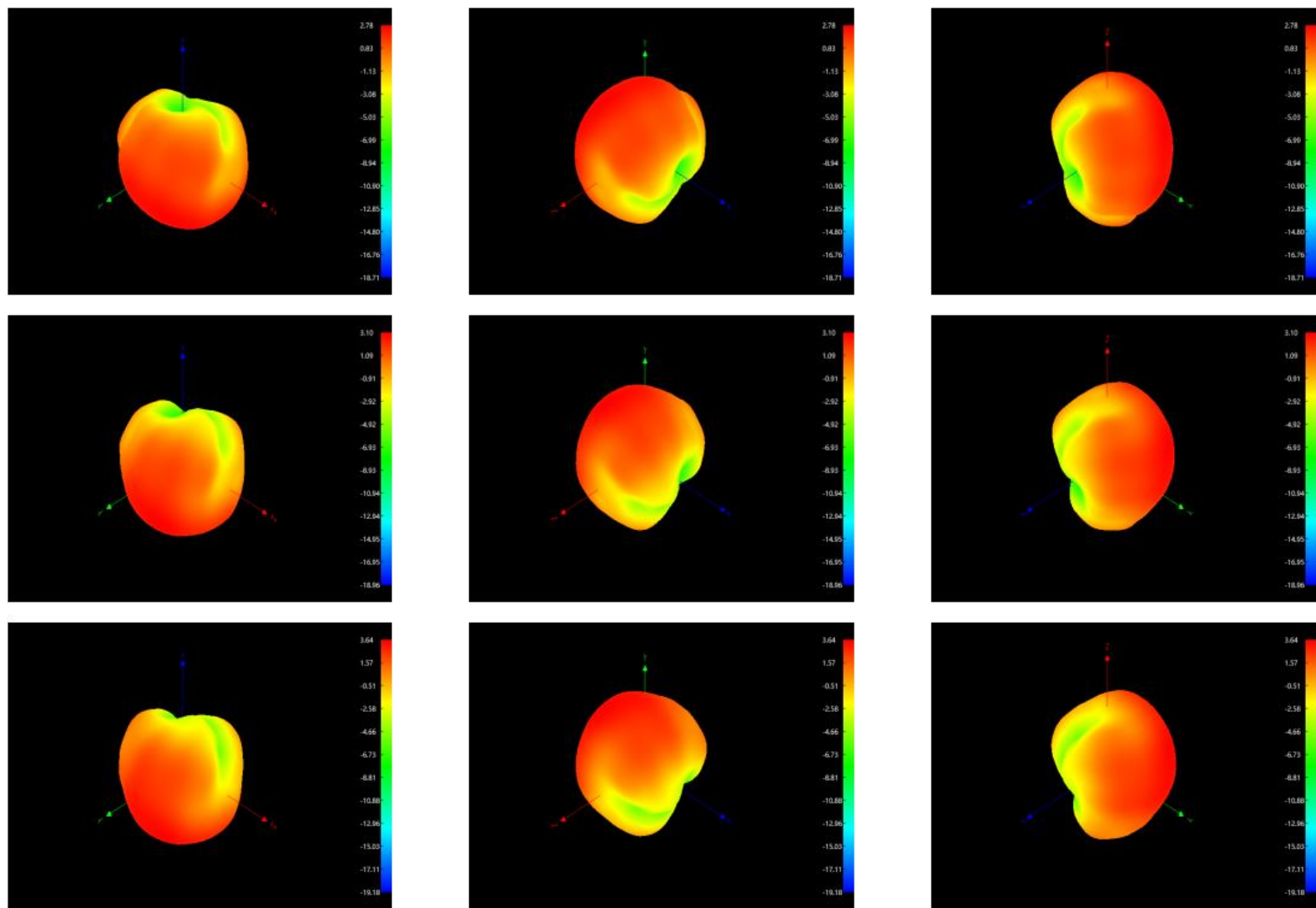
1. (自由状态下) 天线驻波图 Antenna standing wave pattern (in free state)

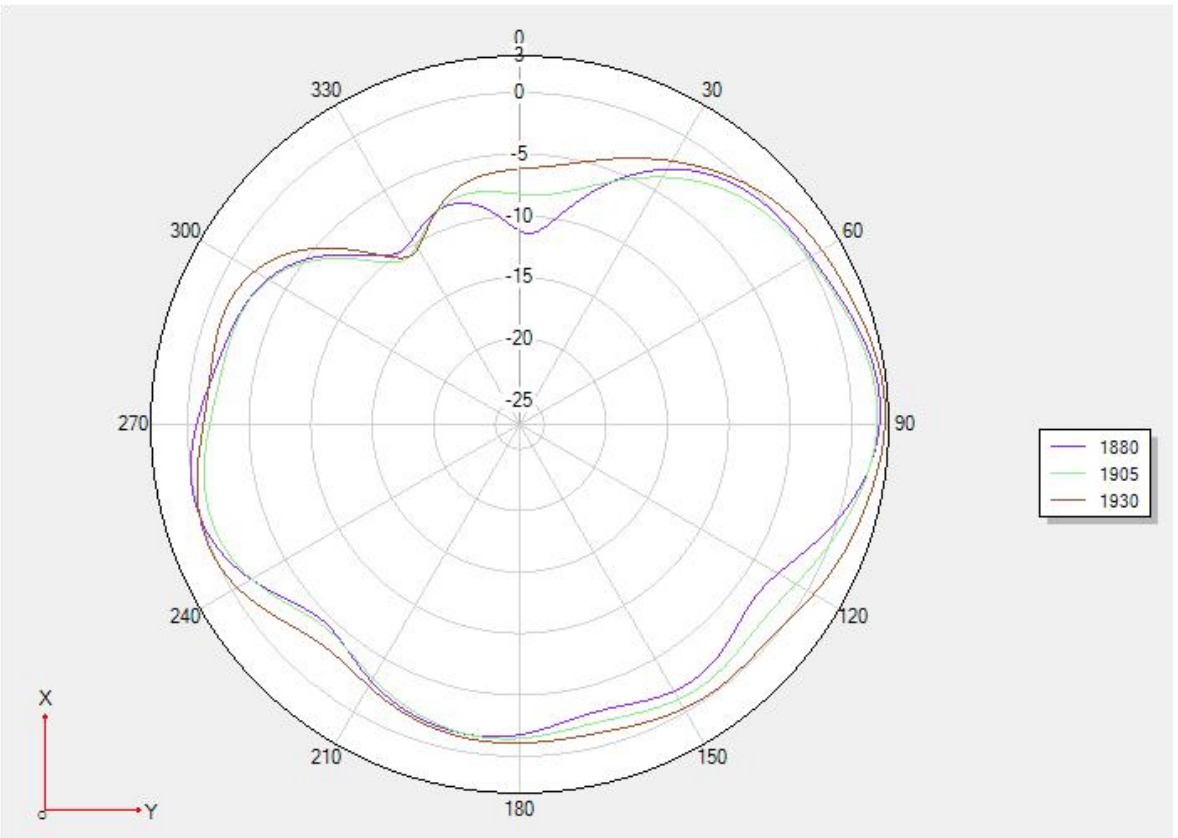
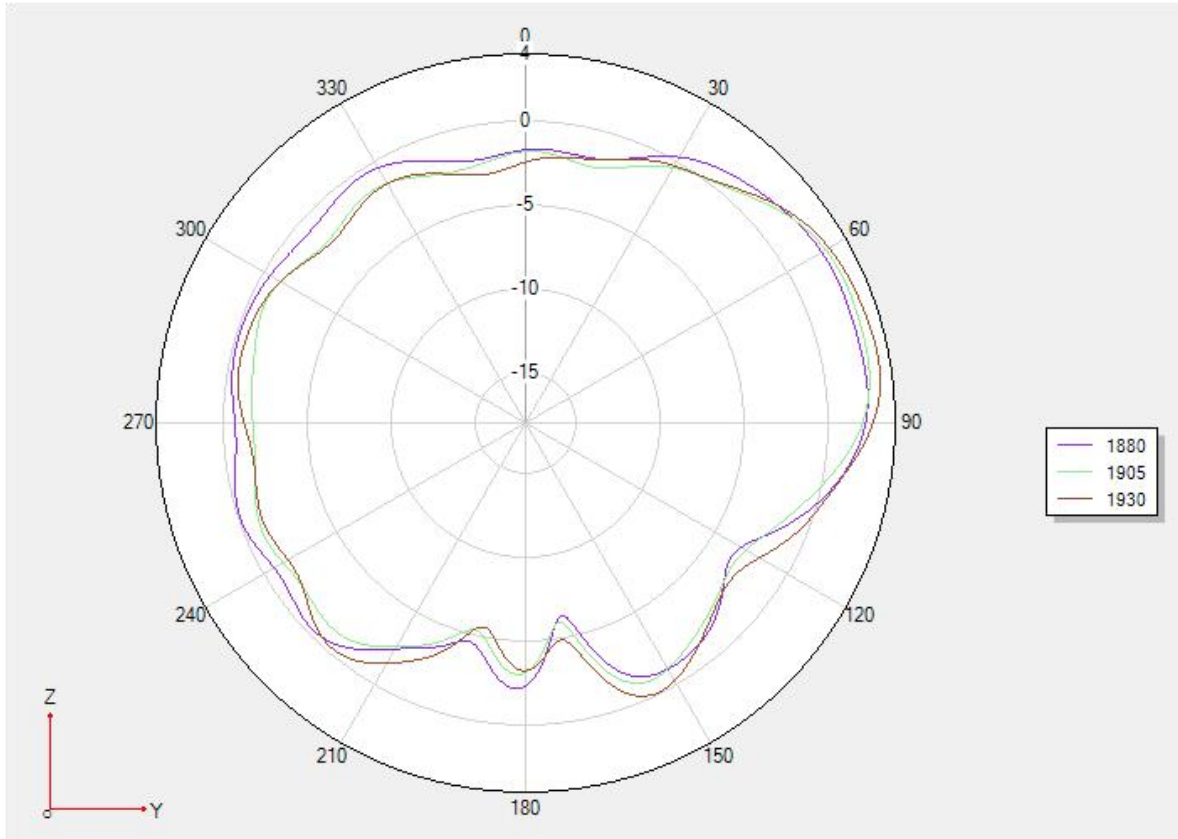


2. (自由状态下) 天线增益效率 Antenna gain efficiency (free state)

| Frequency/Mhz | Efficiency / dB | Efficiency / % | MaxGain/dBi |
|---------------|-----------------|----------------|-------------|
| 1880 | -1.65 | 68.39 | 2.78 |
| 1885 | -1.76 | 66.68 | 3.14 |
| 1890 | -2.04 | 62.52 | 2.8 |
| 1895 | -2.27 | 59.29 | 2.81 |
| 1900 | -2.27 | 59.29 | 2.85 |
| 1905 | -2.43 | 57.15 | 3.1 |
| 1910 | -2.52 | 55.98 | 3.09 |
| 1915 | -2.45 | 56.89 | 3.45 |
| 1920 | -2.38 | 57.81 | 3.94 |
| 1925 | -2.3 | 58.88 | 3.8 |
| 1930 | -2.05 | 62.37 | 3.64 |

3. (自由状态下) 天线方向图 In the free state) antenna direction diagram

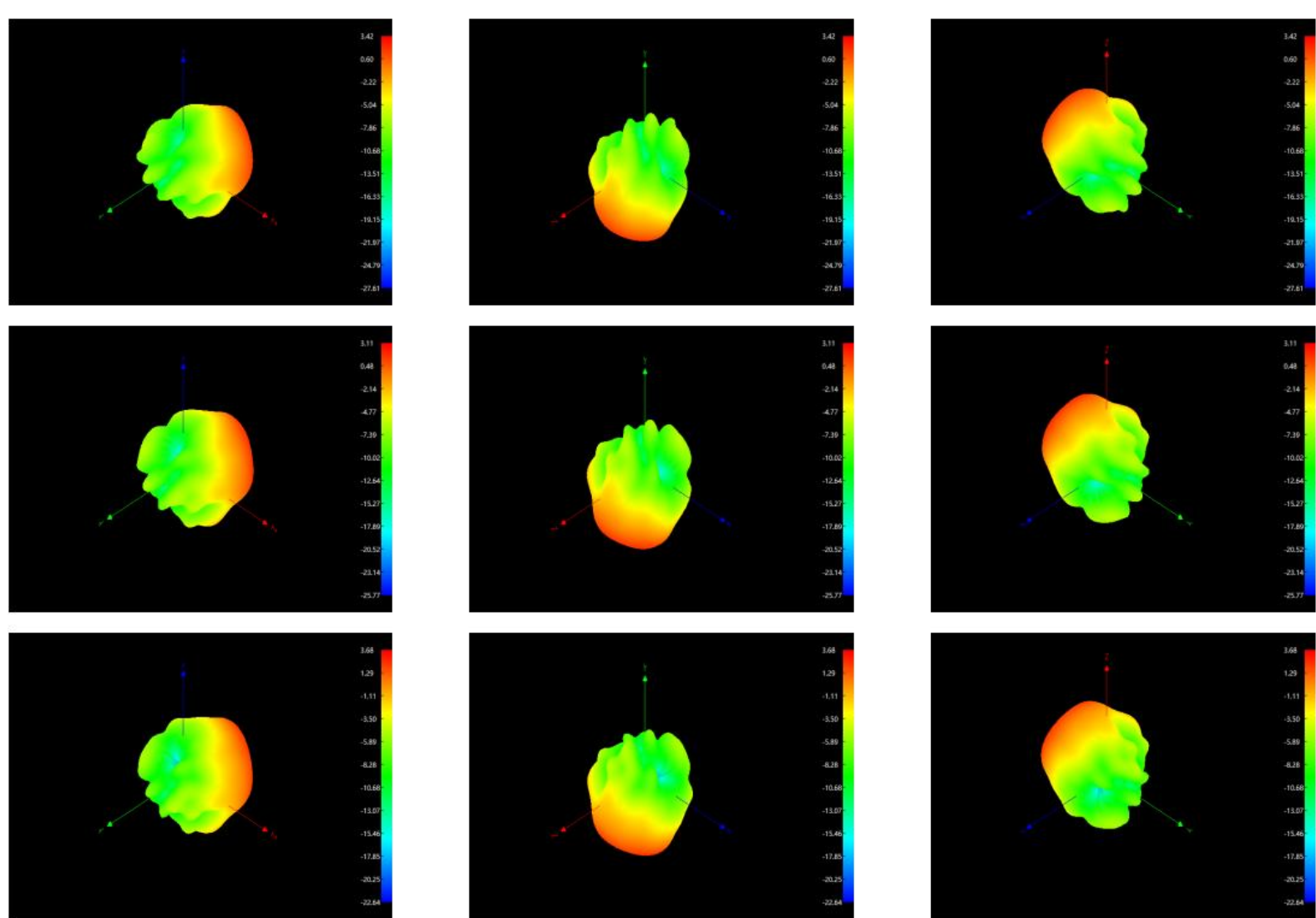


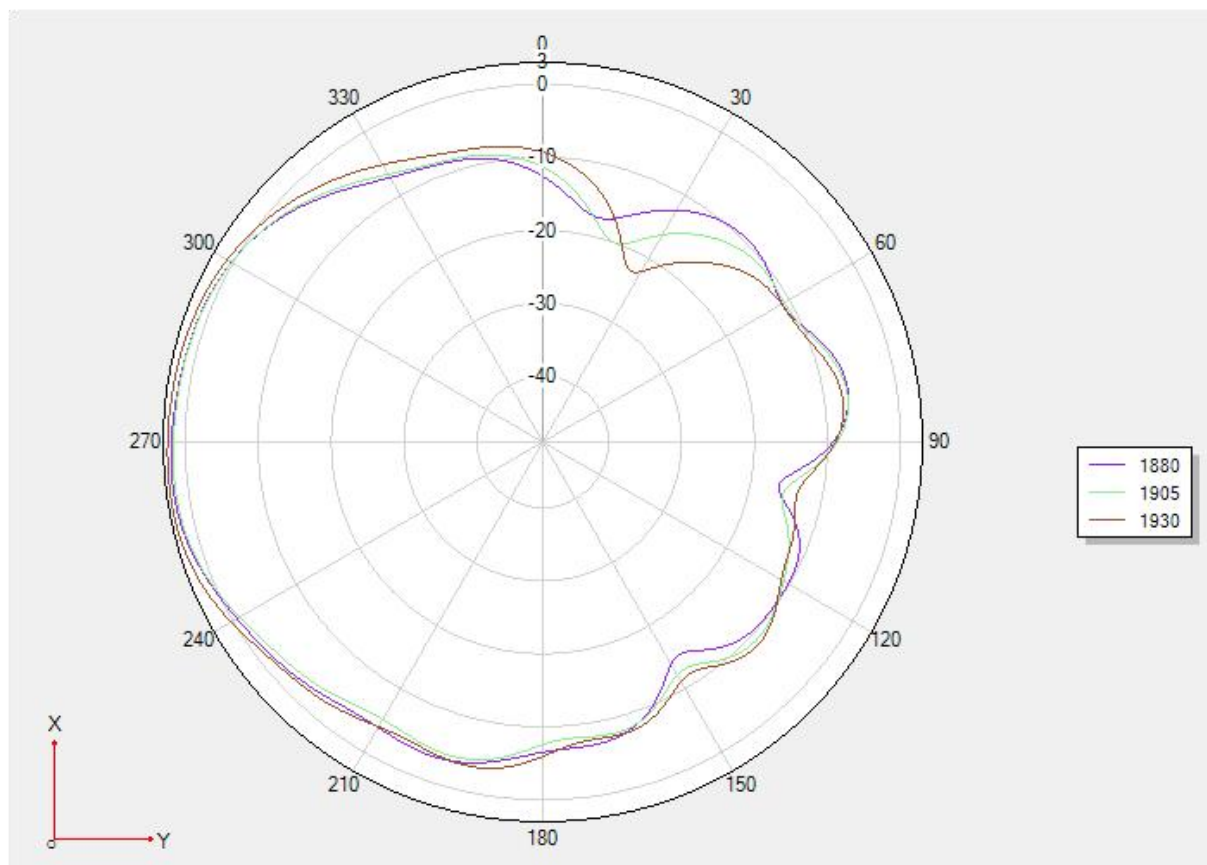
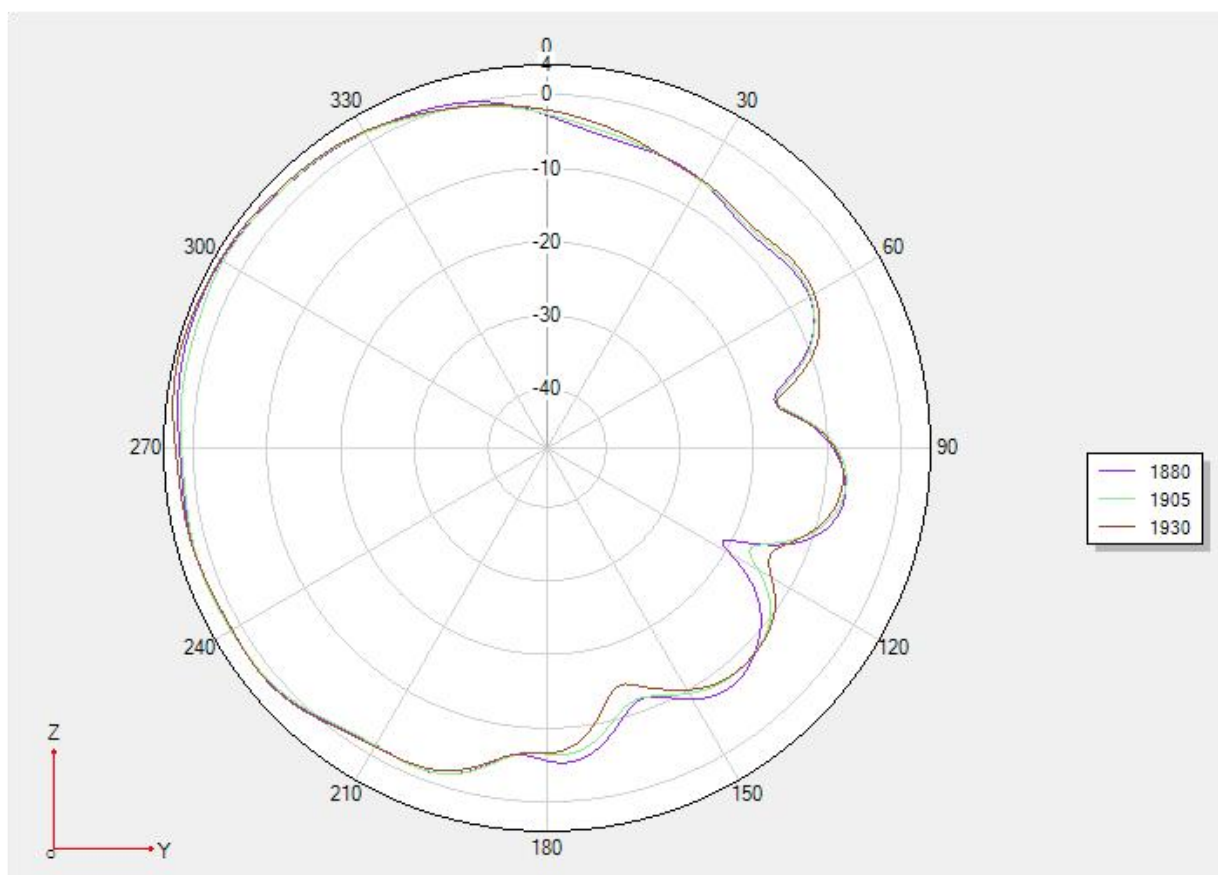


4. (人头模拟状态下) 天线增益效率 Antenna gain efficiency under human head simulation

| Frequency/Mhz | Efficiency / dB | Efficiency / % | MaxGain/dBi |
|---------------|-----------------|----------------|-------------|
| 1880 | -3.41 | 45.6 | 3.42 |
| 1885 | -3.52 | 44.46 | 3.31 |
| 1890 | -3.7 | 42.66 | 3.06 |
| 1895 | -3.86 | 41.11 | 2.92 |
| 1900 | -3.83 | 41.4 | 2.98 |
| 1905 | -3.94 | 40.36 | 3.11 |
| 1910 | -4.01 | 39.72 | 3.09 |
| 1915 | -3.96 | 40.18 | 3.48 |
| 1920 | -3.86 | 41.11 | 3.51 |
| 1925 | -3.81 | 41.59 | 3.94 |
| 1930 | -3.58 | 43.85 | 3.68 |

5. (人头模拟状态下) 天线方向图 Antenna direction diagram (under human head simulation)





测试设备及原理 Testing Equipment and Principle

1. 测试设备： Test equipment

网络分析仪 Network Analyzers :

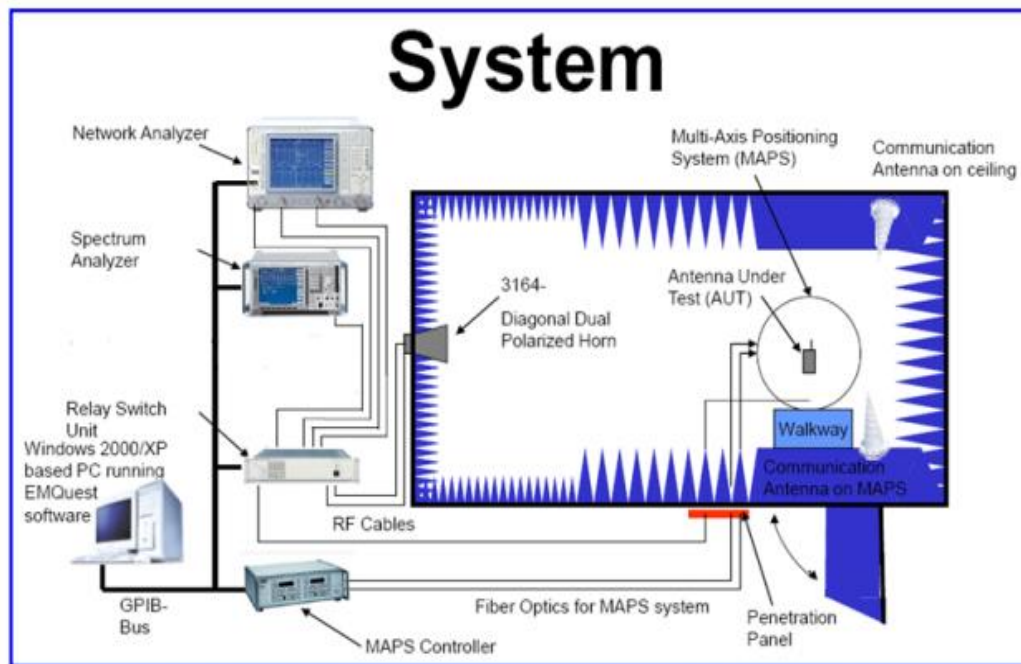
Agilent 8753D 5071B

综合测试仪 Communications Test Set:

Agilent E5515C/CMW500

3D 暗室测试系统 3D Chamber Test System:

2. 测试原理： Test principle



工程图纸 Product Drawing

