



深圳云里物里科技股份有限公司
产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-115

V001

密级: 绝密 /confidentiality

天线型号 (Antenna Version) : ANT-BBNCNC22010

产品型号 (Model of the DUT) : MS52SF1

PCB 编号及版本 (PCB number and version) : MS52SF1_V1.0

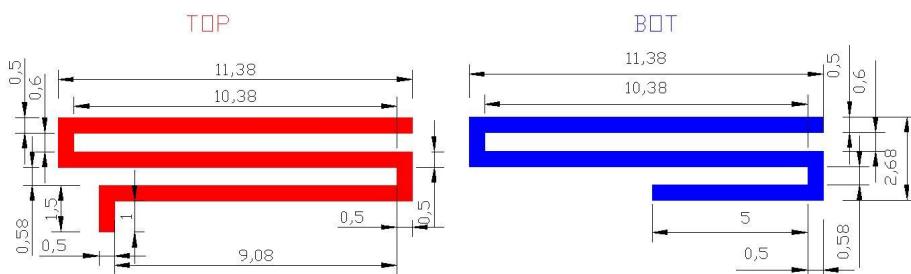
责任硬件工程师 (Hardware Engineer) : 李金倍

测试日期 (Test Data) : 2022/10/13

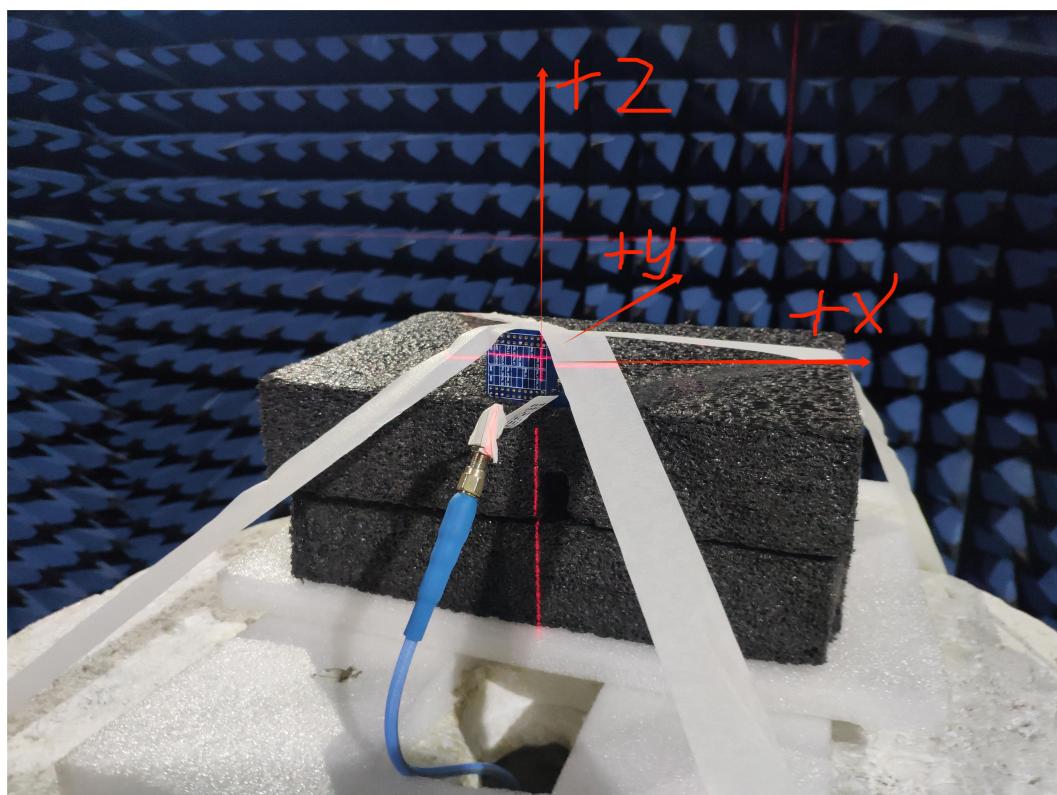
1、技术指标 (Technical Specification)

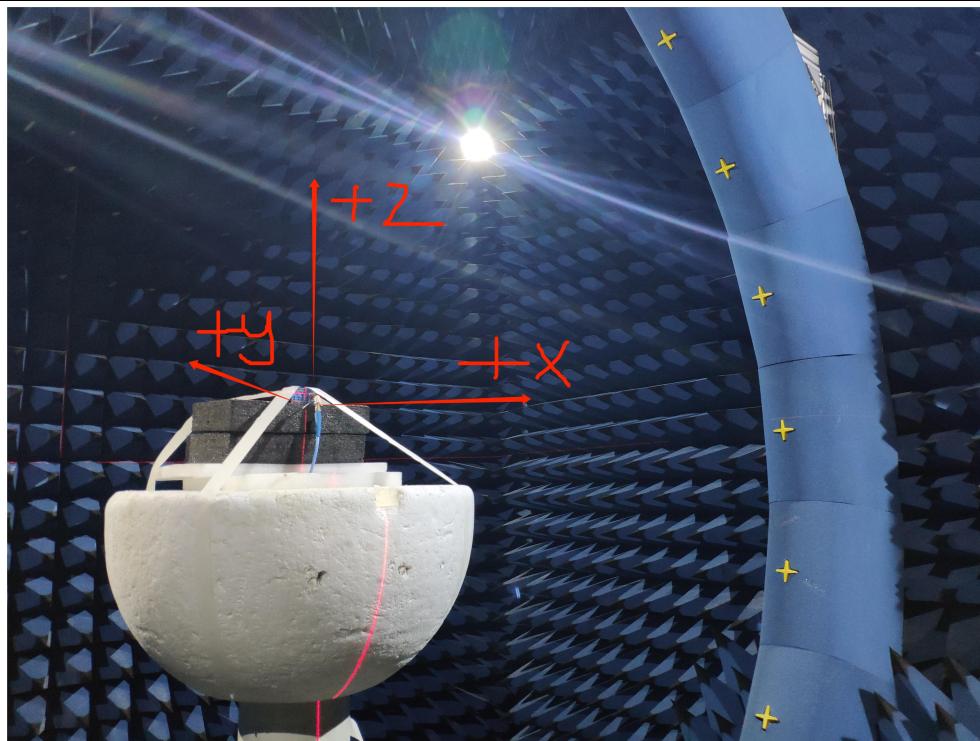
| 电性能指标 Electrical Specifications | |
|---------------------------------|------------------------|
| 频率范围 Frequency Range (MHz) | 2400-2480 |
| 频带宽度 Bandwidth (-10dB) (MHz) | 209 |
| 输入阻抗 Input Impedance (Ω) | 50 |
| 回波损耗 Return Loss (dB) | <-13.609 |
| 电压驻波比 VSWR | <1.53 |
| 增益 Gain (@2.44GHz) (dBi) | 1.77 |
| 峰值增益 Peak Gain (dBi) | 2.33 |
| 极化形式 Polarization Type | 线极化 |
| 雷电保护 Lightning Protection | 直流接地 (DC grounding) |
| 功率容量 Power Capacity (mW) | 1000 |
| 机械指标 Mechanical Specifications | |
| 天线尺寸 Antenna Size (mm) | 11.38*3.68mm |
| 辐射体 Radiator | 铜 Cuprum |
| 连接器型号 Connect Type | 无 |
| 工作温度 Working Temperature (°C) | -40~+85 |
| 存储温度 Storage Temperature (°C) | -40~+85 |

2、天线外形和尺寸 (the shape and size of the antenna)

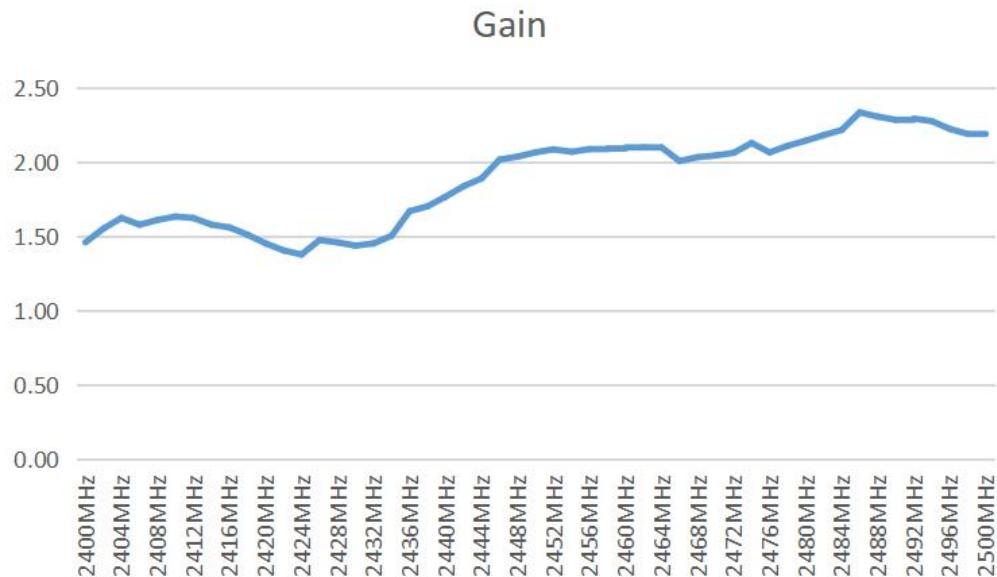


3、测试结果 (The result of the test)

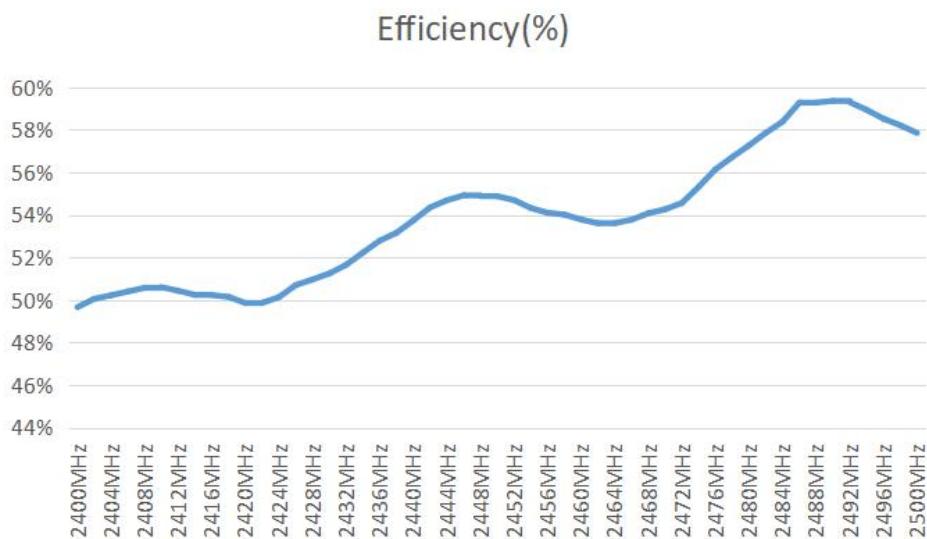




3.1 增益 (Gain)



3.2 效率 (Efficiency)

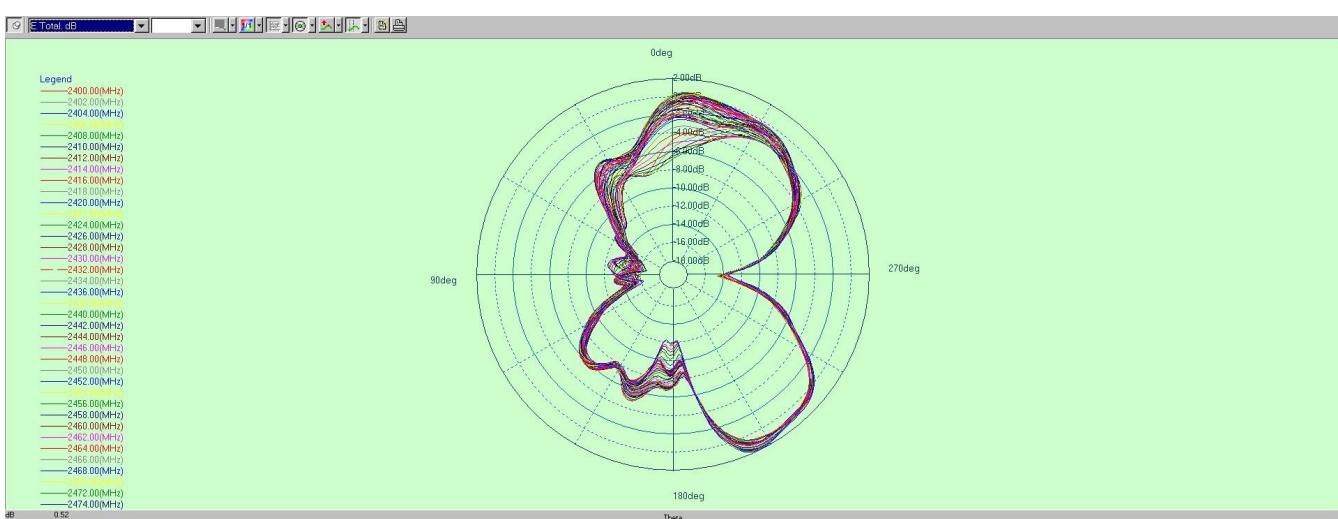
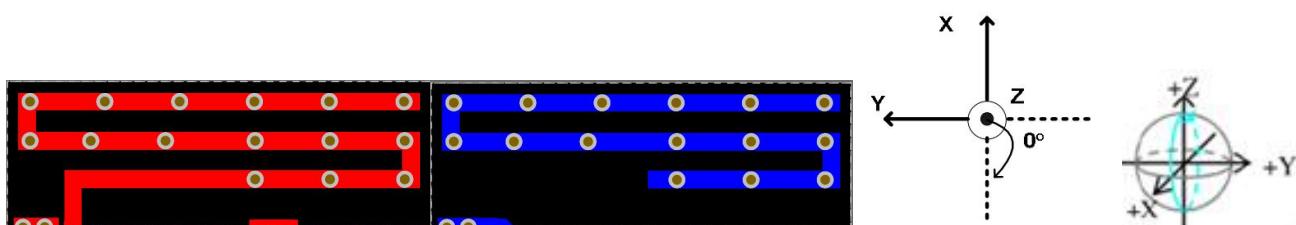


备注: 效率两种表达方式之间的关系: 效率 (dB) = $10\lg(\text{效率的百分比})$

Note: the relationship between the two expressions of efficiency: efficiency (DB) = $10\lg(\text{percentage of efficiency})$

4、辐射方向图 (Radiation Pattern)

(1) (1) E1, XZ 面, phi=0; (E1, XZ plane, phi=0°)

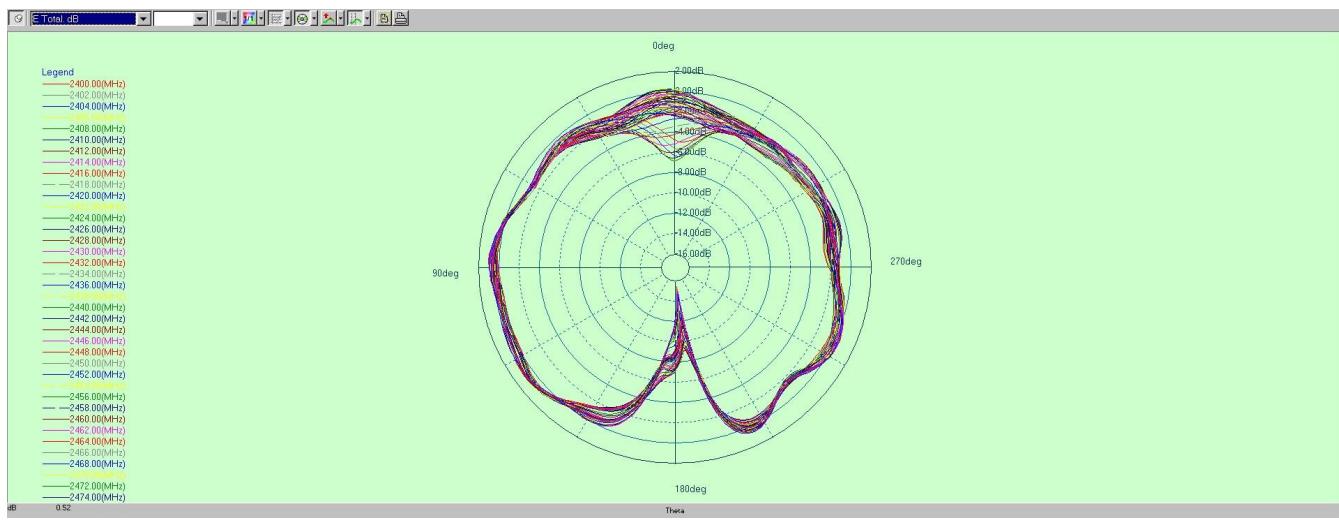
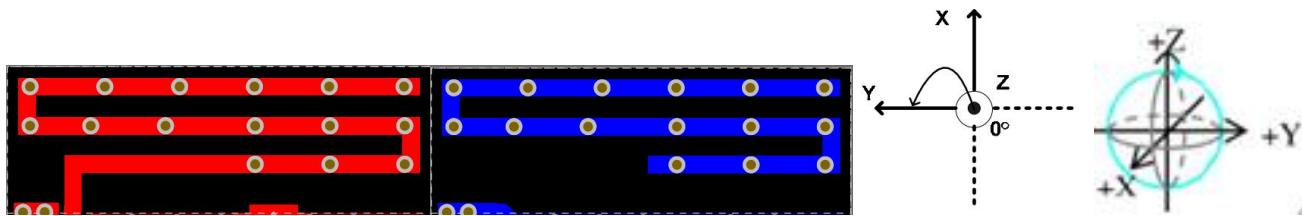


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(2) E2, YZ 面, phi=90° ; (E2, YZ 面, phi=90°)



(3) H, XY 面, theta=90° ; (H, XY plane, theta=90°)

