

规格书

客户名称 (Custome) : 云超

产品名称 (Product Name) : 防爆wifi机

客户料号 (Part Number) : 20602000905

产品规格 (Product specifications) : 双频棒状天线

签发日期 (Date of issue) : 2026. 7. 8

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1 产品说明 Product Description

The antenna is designed for superior performance , and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

该天线设计性能优越，可广泛用于无线应用。

我们为定制天线解决方案提供仿真，测试和制造等全面的天线设计支持， 以满足您的具体应用需求。

2 产品图片 Product Picture



3 产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	2400MHz-2500MHz,5000MHz-5800MHz
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	≤ 2.0
增益 Gain (dBi)	1.73 dBi at 2400-2500MHz 2.70 dBi at 5000-5800MHz
极化形式 Polarization Type	线性 Linear
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	110mm
馈线长度 Cable Length (mm)	/
连接器型号 Connect Type	SMA Female Connector
工作温度 Working Temperature ($^{\circ}\text{C}$)	-40 ~ +85
颜色 Radome Color	白色

4 测试环境 Test environment

网络分析仪：安捷伦 5071B

Network Analyzer: Agilent 5071 B

综合测试仪：R&SCMW500(2/3/4G/NB-IoT/W/BT); Anritsu MT8820C

Comprehensive tester: R&S CMW500(2/3/4G/NB-IoT/WIFI/BT); Anritsu MT8820C

微波暗室：7*4*3ETS 室

Microwave darkroom :7*4*3 ETS Chamber

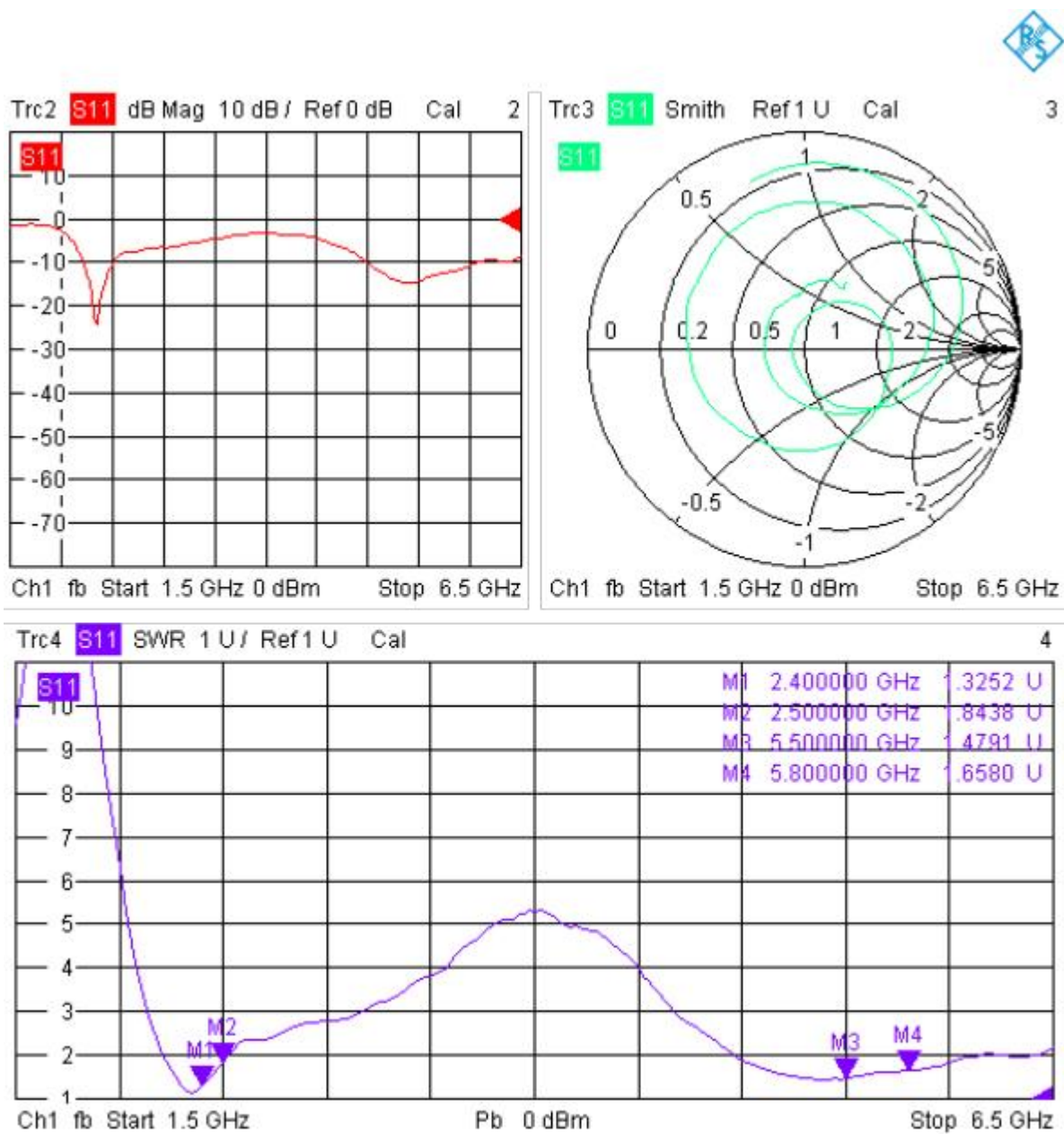


5 环境可靠性测试 Environmental Performance

环境可靠性测试/Environmental Performance		
测试项目 Test Description	测试程序和条件 Test Procedures & Condition	测试要求 Requirements
温湿测试 HumidityTemperature Cycling	测试条件 (Decay Test Conditions) : 温度:25-65 °C :Temperature : 25 ~ 65°C 湿度: 95-100%Humidity : 95-100% (R.H) 持续时间:24 小时 Duration : 24 hours	1, 外观良好 (No evidence of damage) 2, 电气性能符合产品规格要求 (The electrical performances should meet the spec. specified)
高温试验 High temperature test	测试条件 (Decay Test Conditions) : 温度:85°C (Temperature:85°C) 持续时间:10 分钟 Duration:10 Minute	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (The electrical performances should meet the spec. specified)
低温试验 Low Temperature test	测试条件 (Decay Test Conditions) : 温度: -40±2°C (Temperature:-40±2°C) 持续时间:10 分钟 Duration : 10 Minute	1.外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (The electrical performances should meet the spec.specified)

6 测试数据 Test data

- 驻波比图 VSWR



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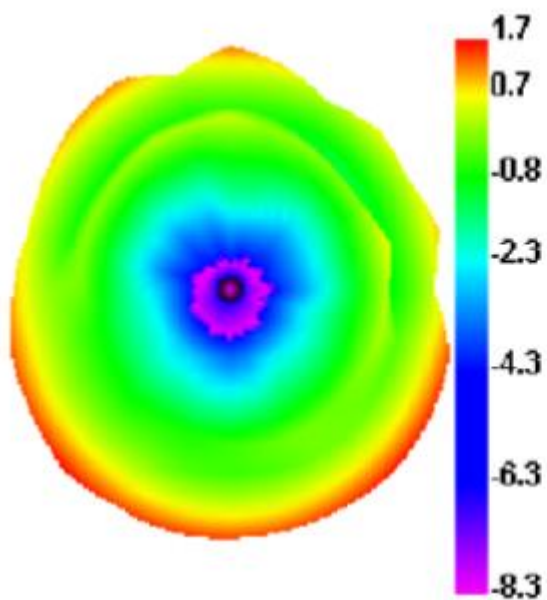
● 效益 Efficiency 增益 Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	65.92	-1.81	1.73
2410	58.62	-2.32	1.39
2420	54.02	-2.67	0.98
2430	54.65	-2.62	1.03
2440	51.6	-2.87	0.62
2450	58.53	-2.33	1.05
2460	59.71	-2.24	1.12
2470	58.57	-2.32	0.94
2480	57.03	-2.44	0.8
2490	63.2	-1.99	1.15
2500	56.51	-2.48	0.85
2510	58.45	-2.33	1
2520	59.09	-2.29	1.01
2530	56.28	-2.5	0.61
2540	57.36	-2.41	0.48
2550	59.25	-2.27	0.59
2560	59.01	-2.29	0.59
2570	56.79	-2.46	0.37
2580	60.03	-2.22	0.72
2590	52.1	-2.83	0.14
2600	49.65	-3.04	-0.03

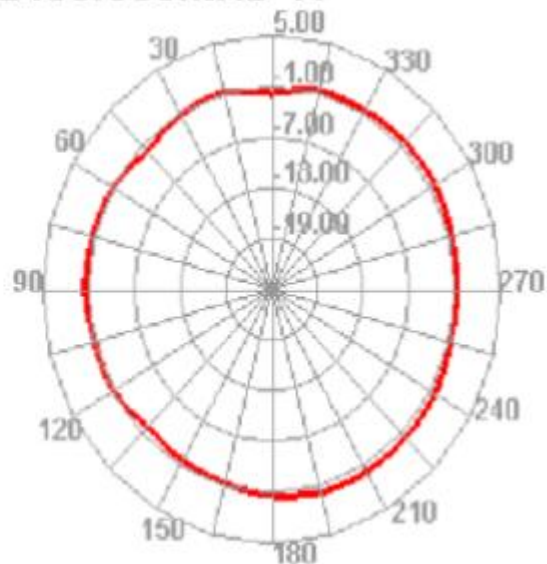
● 效益 Efficiency 增益 Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5500	30.51	-5.15	-0.96
5550	39.31	-4.06	-0.19
5600	46.25	-3.35	0.96
5650	44.84	-3.48	1.36
5700	55.44	-2.56	2.7
5750	39.7	-4.01	1.05
5800	29.75	-5.27	-0.38
5850	30.86	-5.11	0.22
5900	34.02	-4.68	0.51
5950	31.91	-4.96	0.27
6000	24.83	-6.05	-0.75

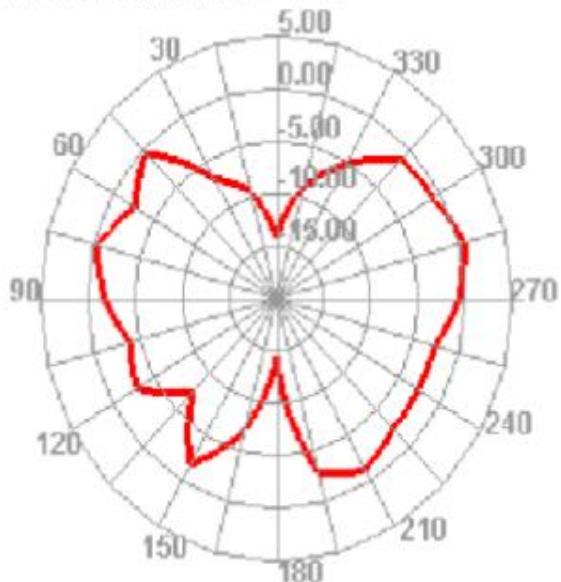
2400.000MHz



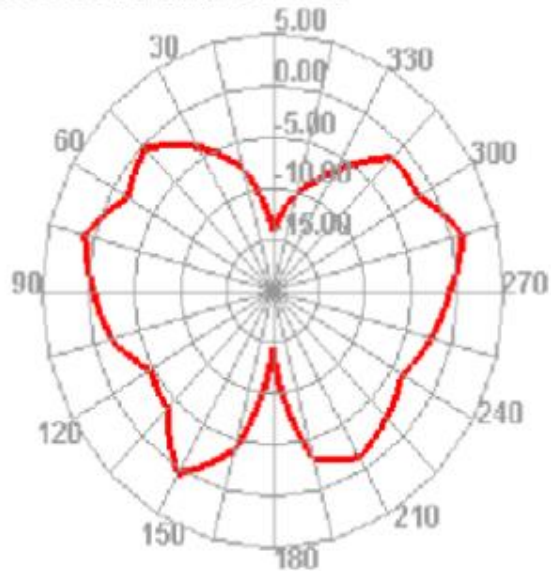
2400.000MHz H

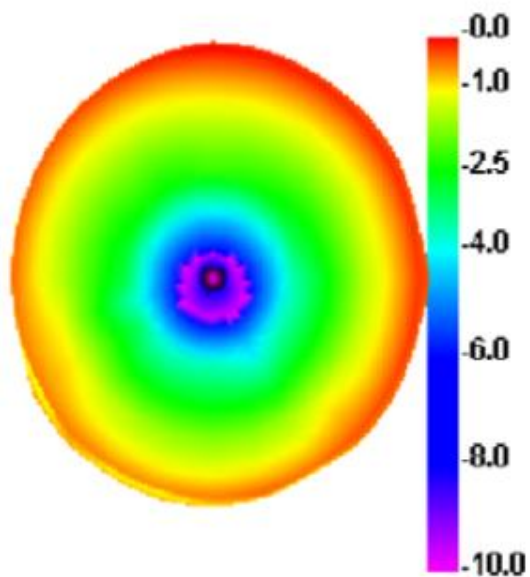
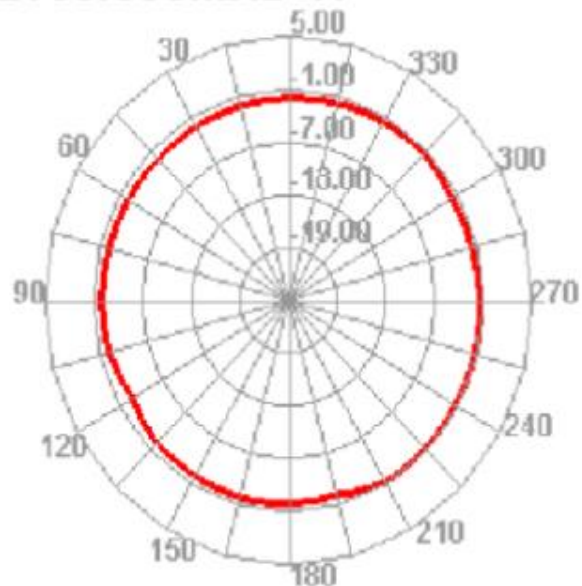
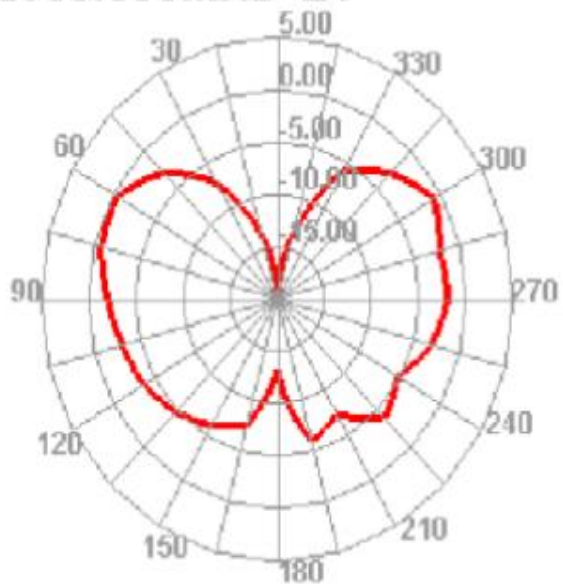
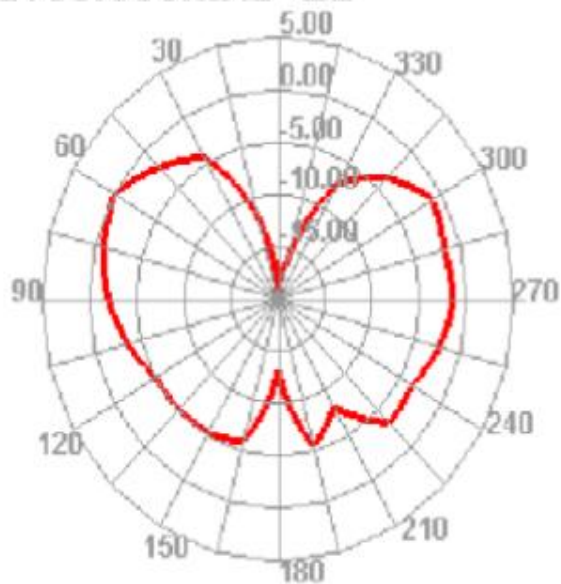


2400.000MHz E1

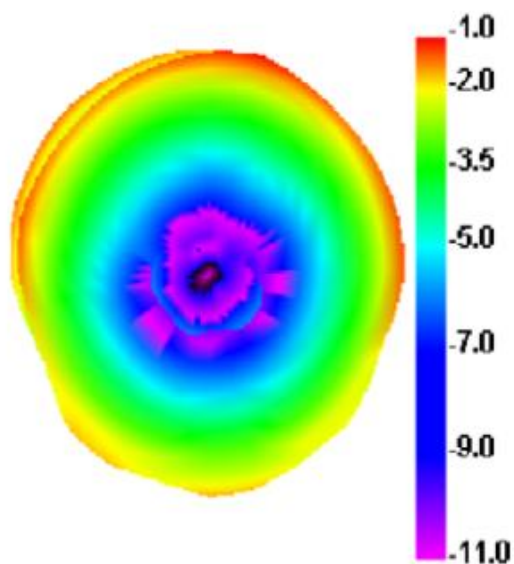


2400.000MHz E2

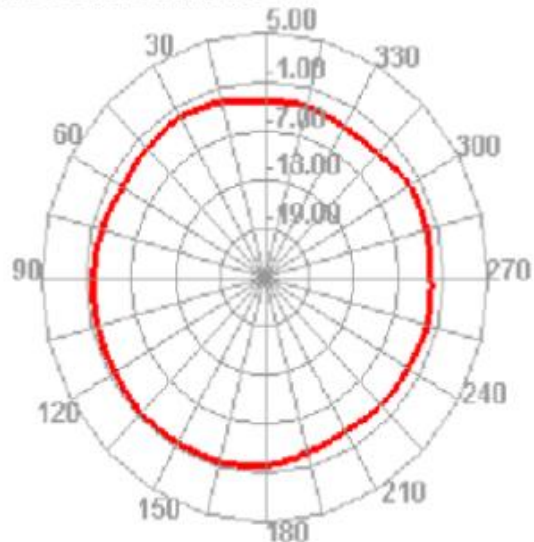


2600.000MHz

2600.000MHz H

2600.000MHz E1

2600.000MHz E2


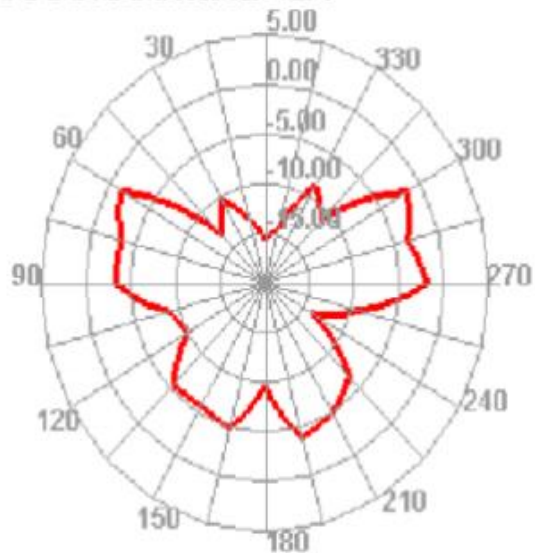
5500.000MHz



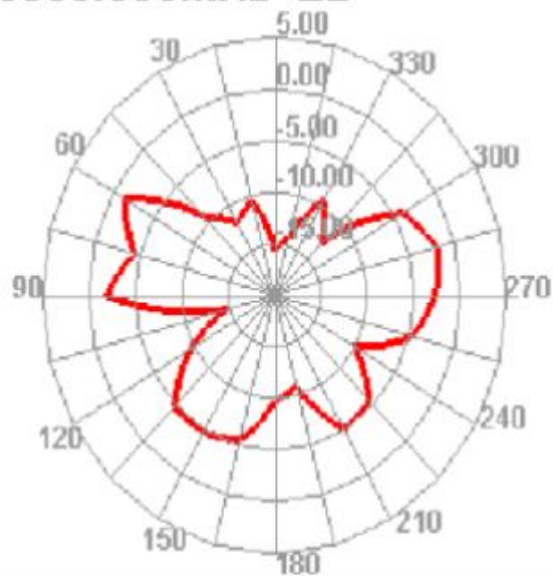
5500.000MHz H



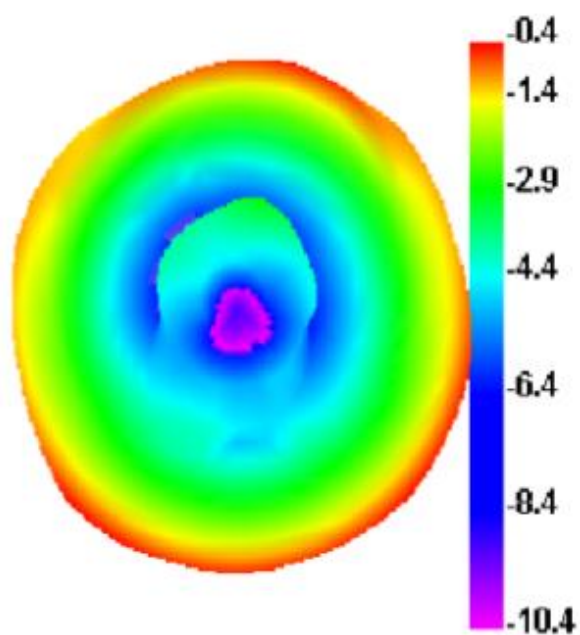
5500.000MHz E1



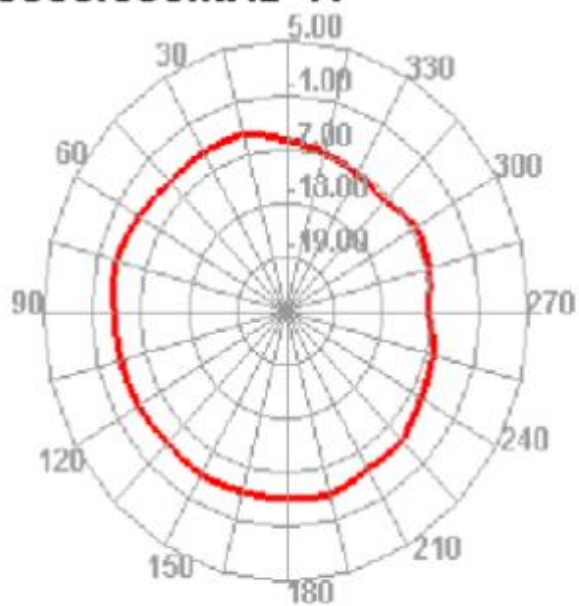
5500.000MHz E2



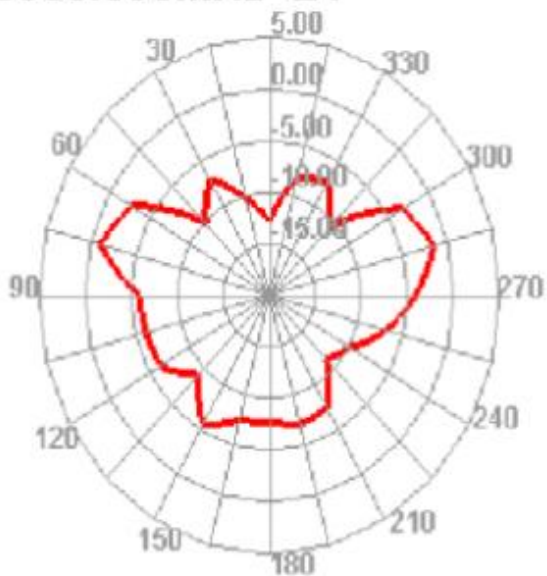
5800.000MHz



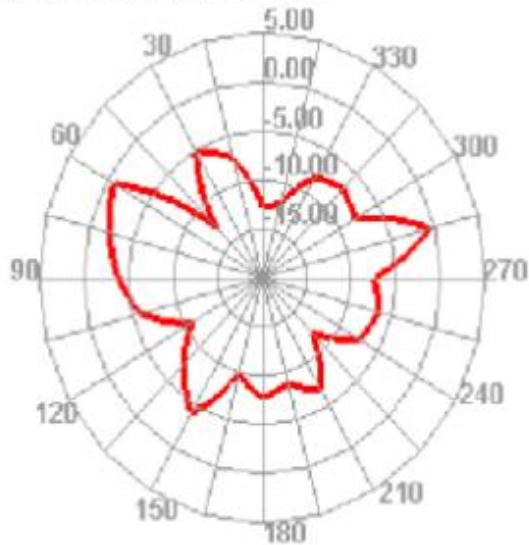
5800.000MHz H



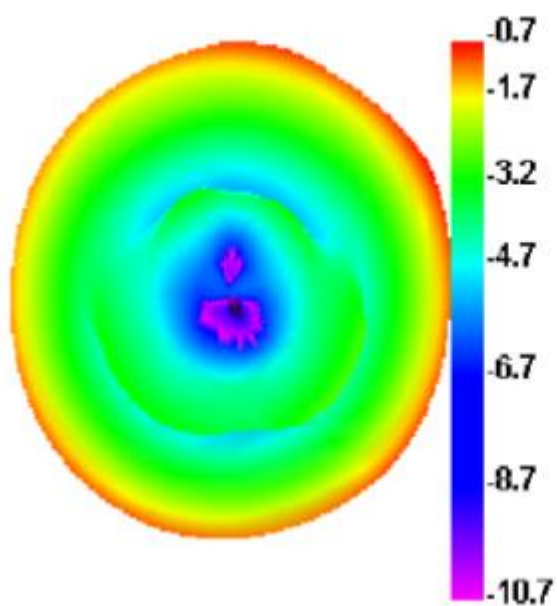
5800.000MHz E1



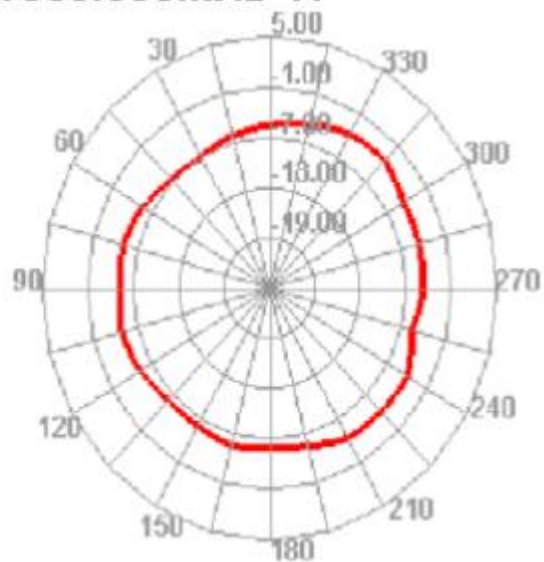
5800.000MHz E2



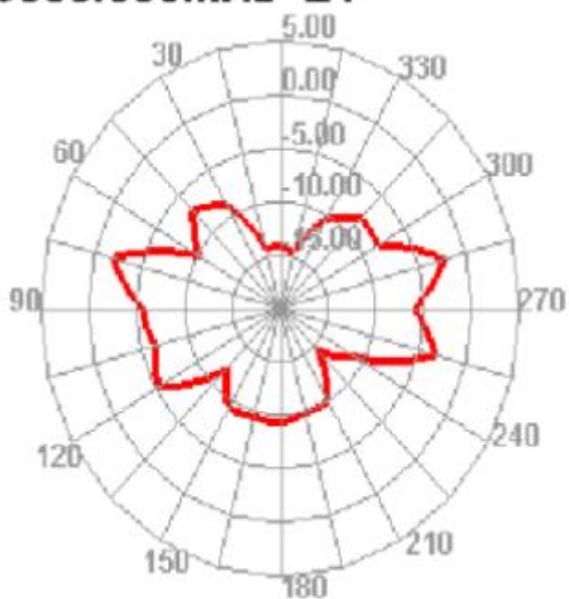
6000.000MHz



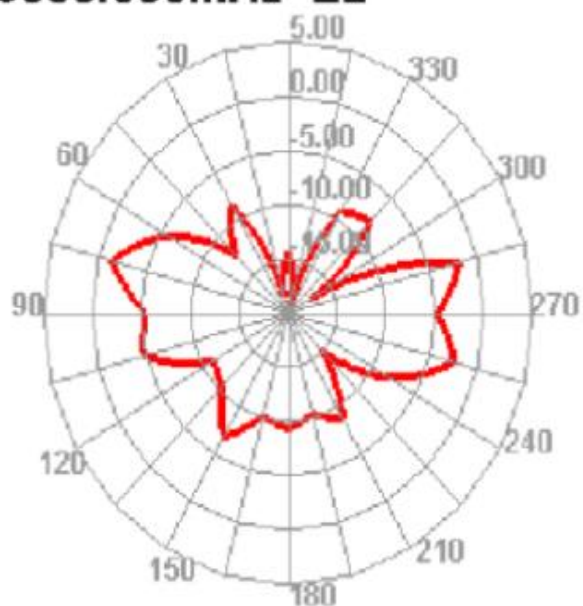
6000.000MHz H



6000.000MHz E1



6000.000MHz E2



7 工程图 Engineering drawings

