

Shenzhen Bilin Technology Co., Ltd.

Address: 916 Maoyuan Building, No.9 Songyuan Road,
Luohu District, Shenzhen

承 认 书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 浙江大华

产品名称

PRODUCT NAME: 2.4/5.8G-W58 白色天线 L=130mm+端子

客户料号

CUSTOMER P/N:

比邻电子料号

BL Model: BL02C120W2D1320A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2022/09/06	

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1. 规格表:

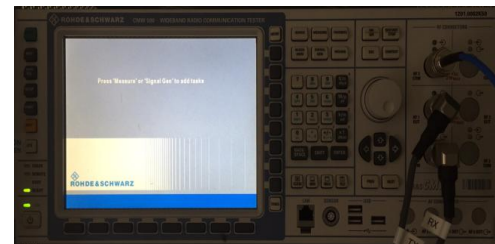
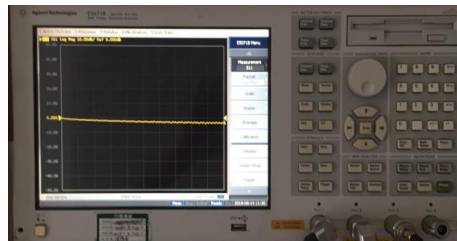
产品主要技术参数 Main technical specifications

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	>1	Gain(dBi)	>1
输出电压 驻波比	≤ 1.92	VSWR	≤ 1.92
最大功率	1W	Admitted Power	1W
极化方式	线极化	Polarization	Line,Vertical
连接方式	同轴线+端子	Connector Type	RF Cable+terminal
物理性能		Physical Properties	
天线本体材料	PC	Antenna Base	PC
工作温度	-30 $^{\circ}$ C~+60 $^{\circ}$ C	Operating Temp	-30 $^{\circ}$ C~+60 $^{\circ}$ C
保存温度	-30 $^{\circ}$ C~+60 $^{\circ}$ C	Storage Temp	-30 $^{\circ}$ C~+60 $^{\circ}$ C

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2. 测试项目及设备 Test items and equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



通过多探头采集 DUT 球面近场数据，再通过严格的数学近远场转换计算出 DUT 的方向图，依据方向图上的方向性系数计算出无源的增益效率。

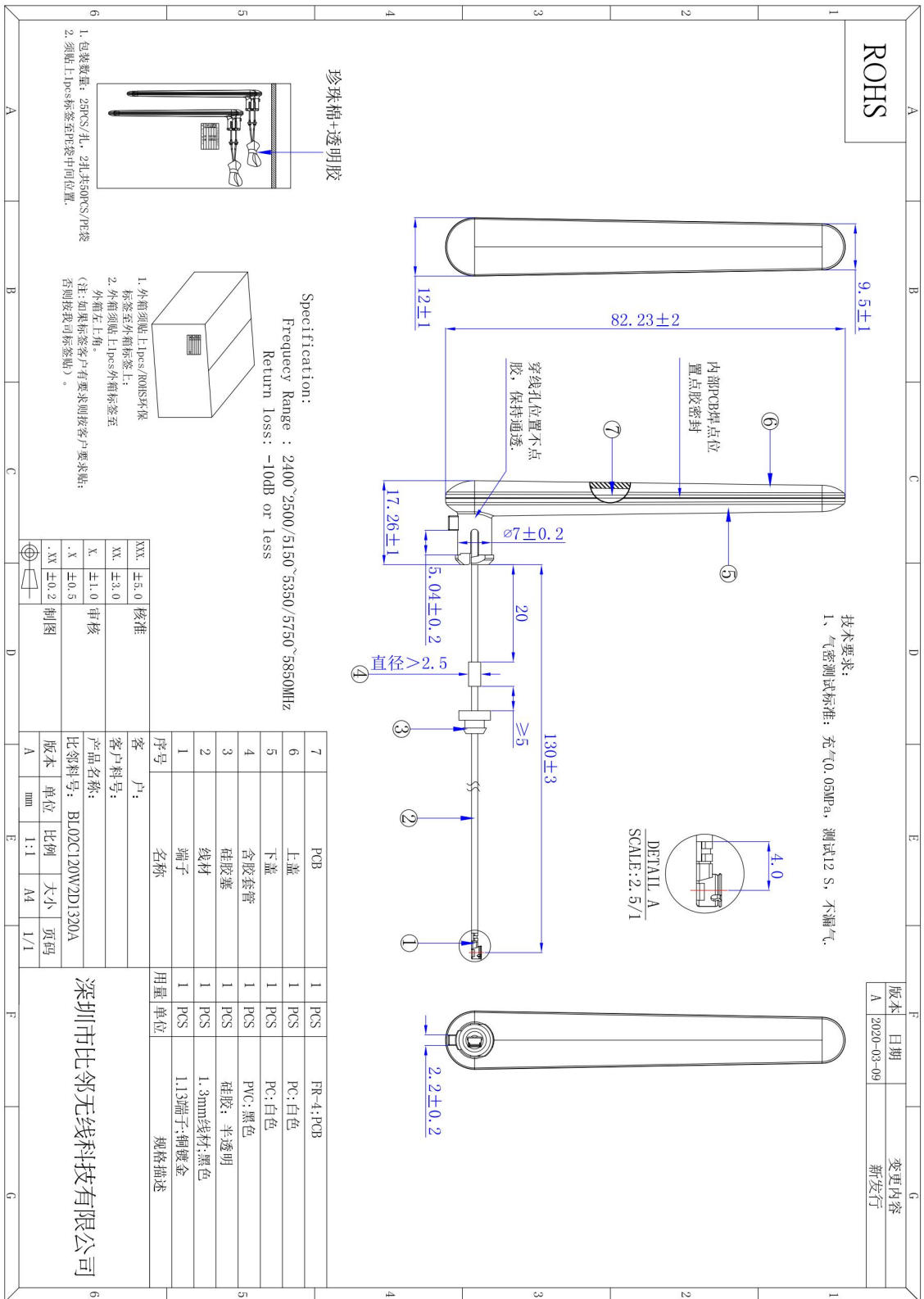
Test method: The DUT spherical near-field data are collected by multiple probes, and then the DUT pattern is calculated by strict mathematical near-far field conversion. The passive gain efficiency is calculated according to the directivity coefficient on the pattern.

Test standard & procedure:

Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149- 2021
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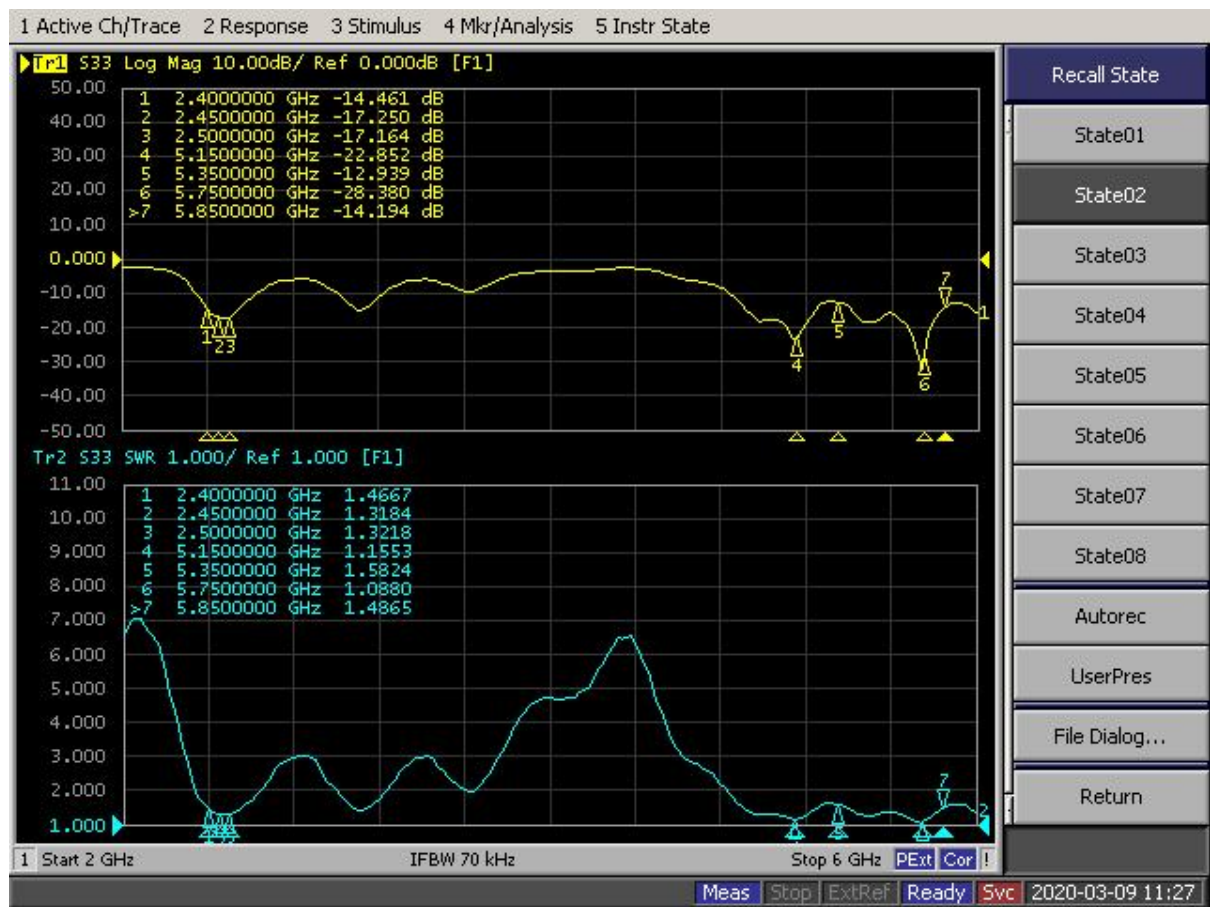
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3. 成品图: Antenna size diagram



4. 测试报告 test report

4.1: 网络分析仪测试报告 Network analyzer test report



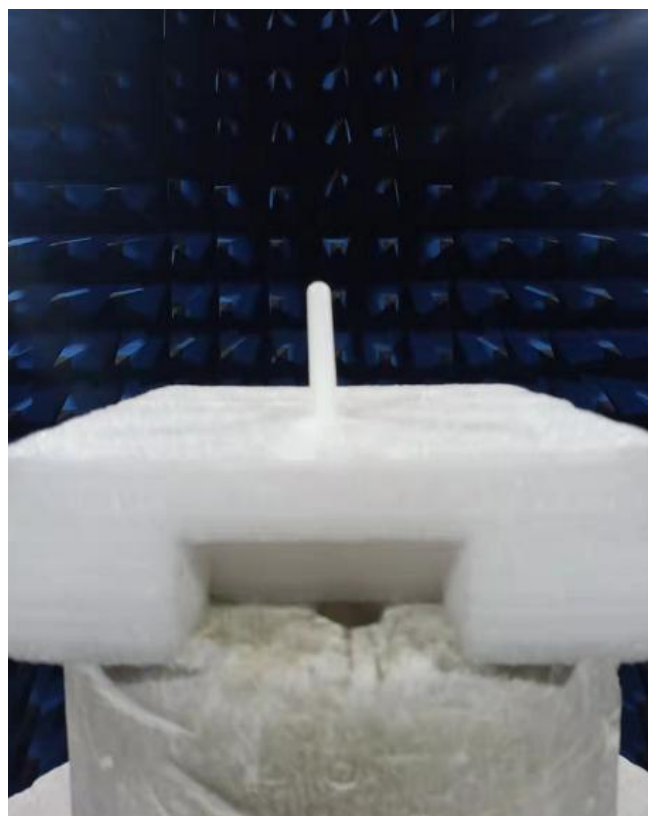
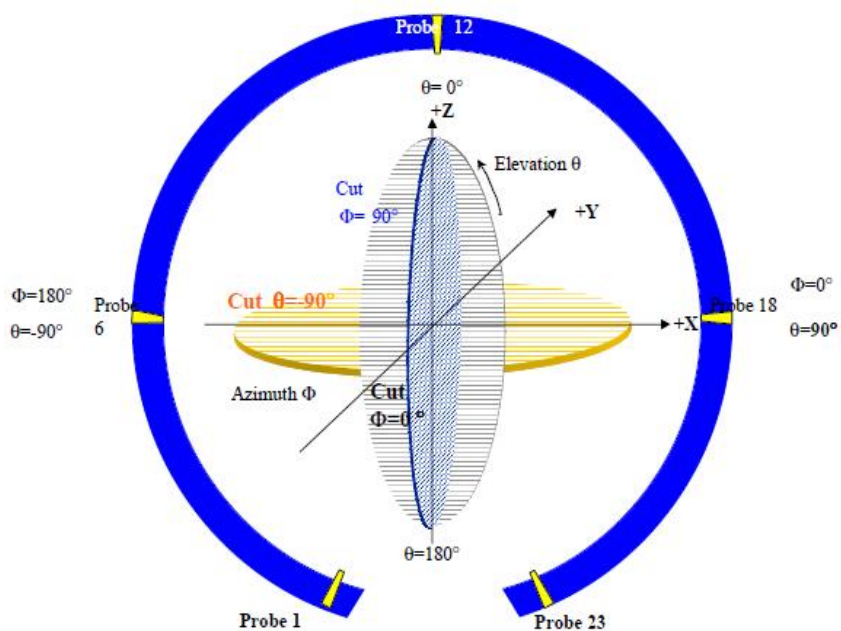
4.2: 暗室 2D、3DRaditation Pattern(整机数据)

4.2.1 效率及增益 Efficiency and gain

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
2400	-1.88	64.89	1.39
2450	-1.85	65.28	1.43
2500	-1.82	65.81	1.79
5150	-2.45	56.88	1.96
5350	-2.51	56.05	2.37
5550	-2.50	56.29	3.19
5700	-2.55	55.58	2.64
5850	-2.30	58.83	2.55

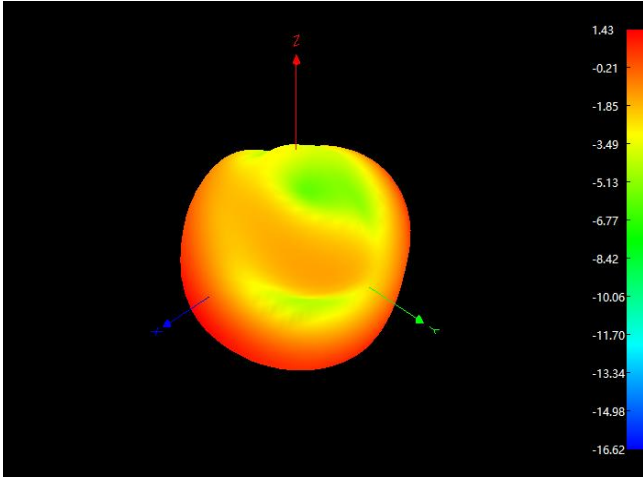
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暗室坐标 chamber coordinates

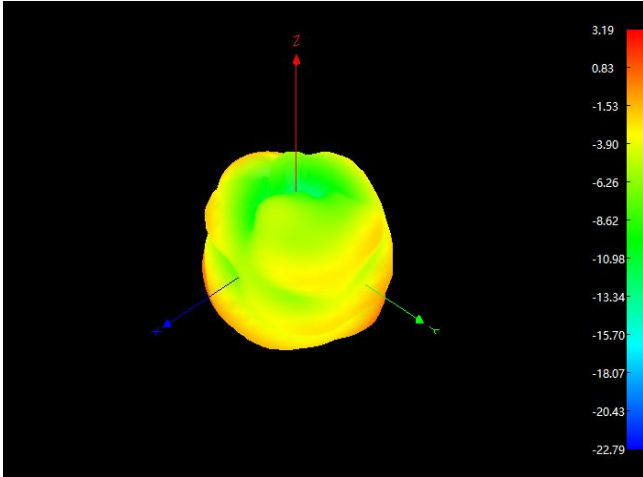


4.2.2 2D/3D 场型图

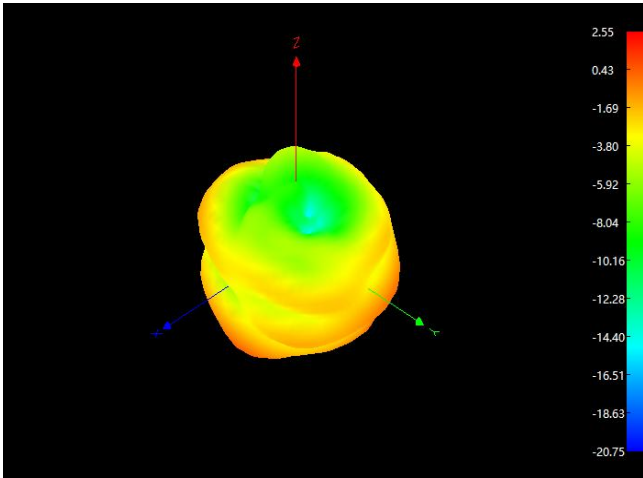
ANT 3D Radiation with MaxGain



2450MHz

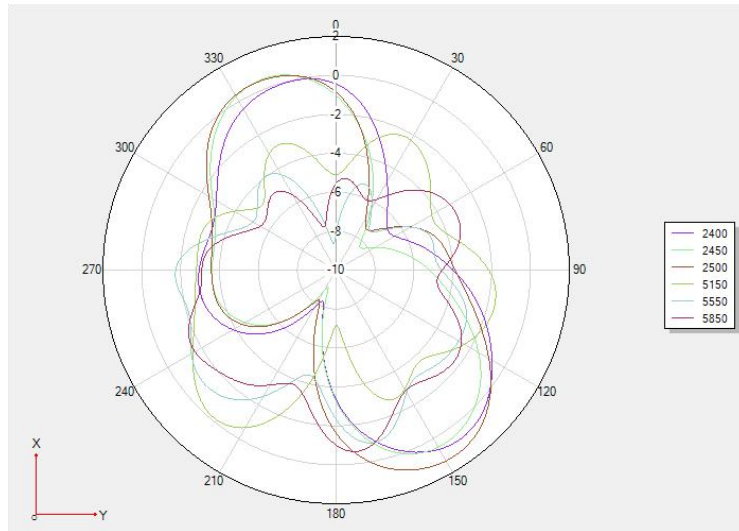


5550MHz

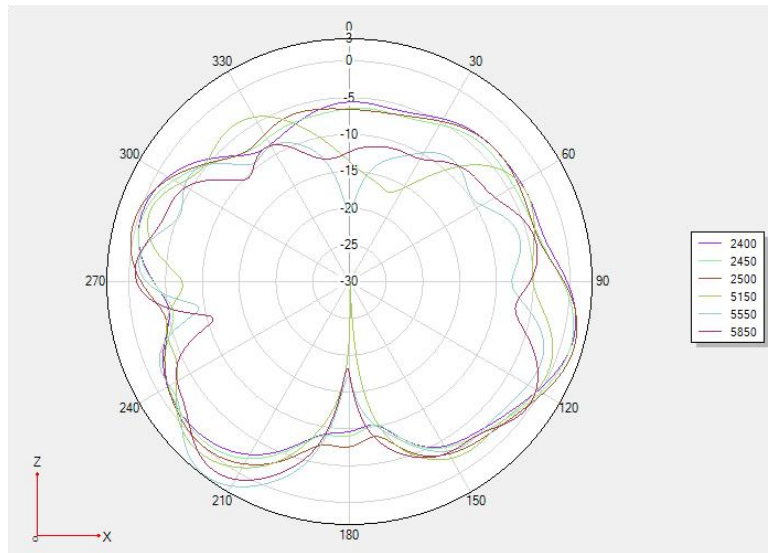


5850MHz

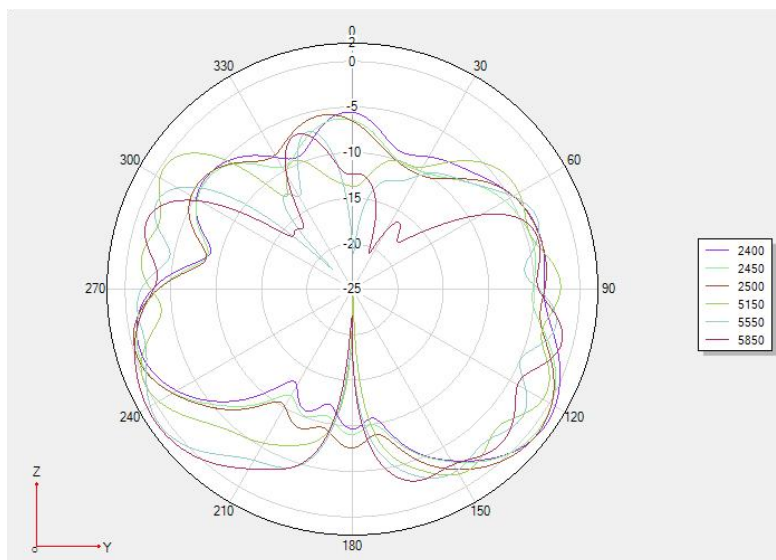
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Theta 90 2D 图



Phi 0 2D 图



Phi 90 2D 图

