



Shenzhen Deweima Communication Equipment Co., LTD

Product Specification Approval Letter

德威玛天线实验室 Dewema Antenna Laboratory

Customer Name: 瀚宏数码&Hanhong Digital
Product Name: SR01 发射天线&Transmitting antenna
Material code: E.H.0142

地址：深圳市宝安创业二路 23 区友谊大厦一栋 3 楼

Address: 3rd Floor, Building 1, Friendship Building, Zone 23,
Chuangye 2nd Road, Bao 'an District, Shenzhen City

（地铁洪浪北 B 出口平安银行后面）

Behind Ping An Bank at Exit B of Honglang North Subway Station

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1.目的&Purpose

对于深圳市德威玛通讯设备有限公司出品的移动通信终端天线产品规格、测试方法进行规范，避免因测试条件，方法的不同引起误差。

Standardize the specifications and testing methods of the mobile communication terminal antenna products produced by Shenzhen Deweima Communication Equipment Co., Ltd. to avoid errors caused by different testing conditions and methods.

2.产品类别和产品型号概述&Overview of product categories and product models

2.1 Category

This mobile communication terminal antenna is: Monopole Antenna;

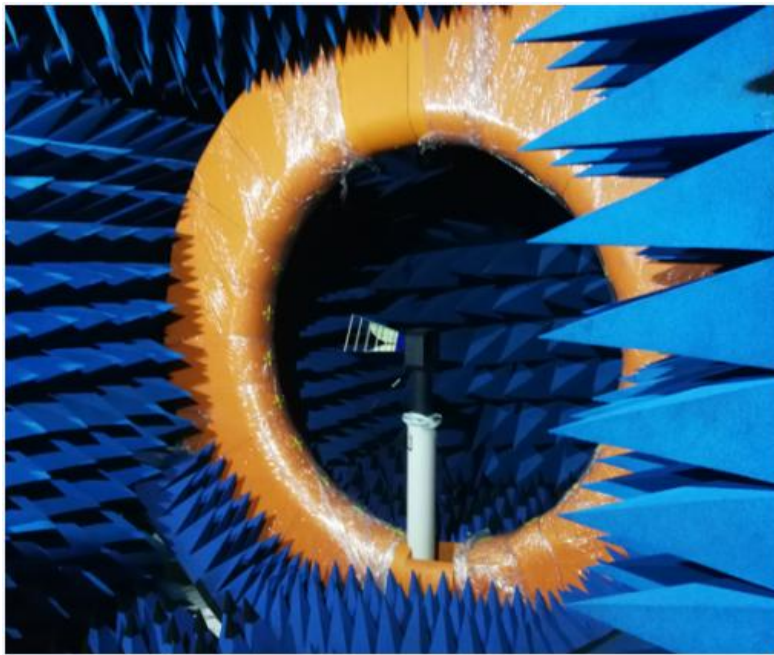
3.技术指标与仪器设备&Technical indicators and instruments and equipment

3.1 技术指标&Technical indicators

产品电气性能指标&Product electrical performance indicators	
Working frequency range	5100~5850MHz
Stay in Bobby	5100~5850MHz<2.0
Antenna gain	4.65dBi
Radiation efficiency	5100~5850 MHz>40 %
Impedance	50 ohm



3.2 仪器设备&Instruments and equipment



24-probe microwave chamber



R&S CMW500



Agilent E4405B 频谱仪

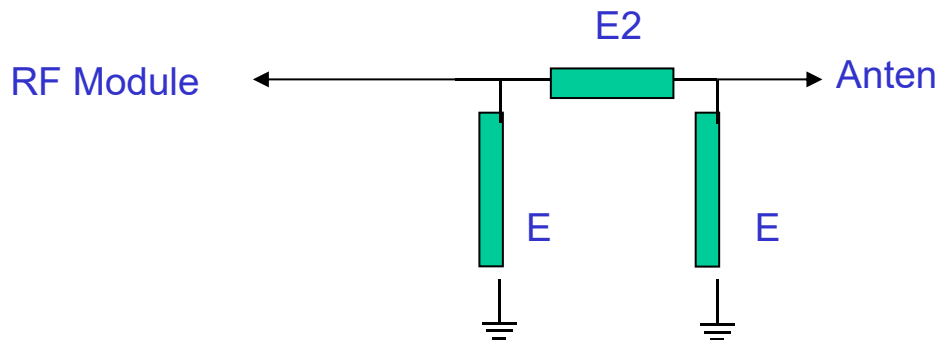


Agilent Technologies E5071B

4.匹配电路说明&Matching circuit description:

我司对 SR01 天线的原匹配电路做修改

Our company has modified the original matching circuit of the SR01 antenna

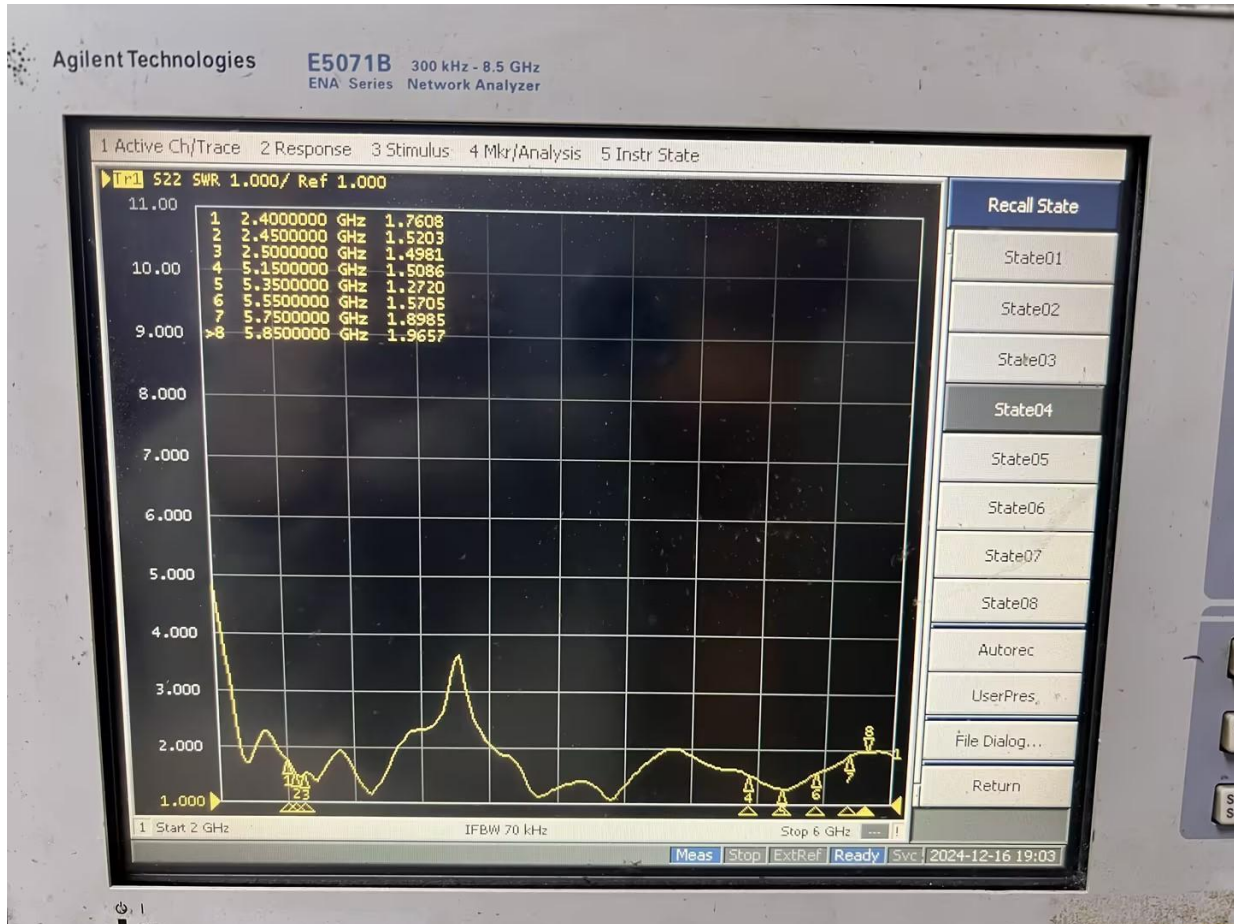


Element	Value	Vender
E1(0201)		
E2(0201)		
E3(0201)		



5. 无源驻波图&Smith 图

Passive standing wave diagram &Smith diagram

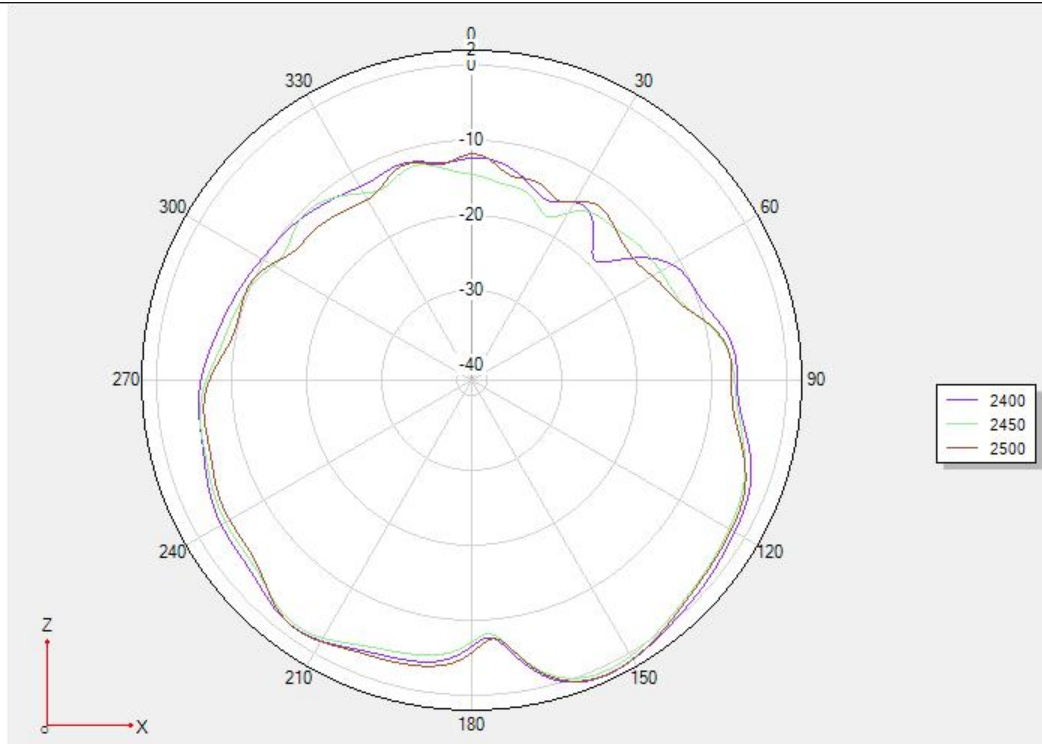


6. 天线增益、效率及方向图&Antenna gain, efficiency and pattern:

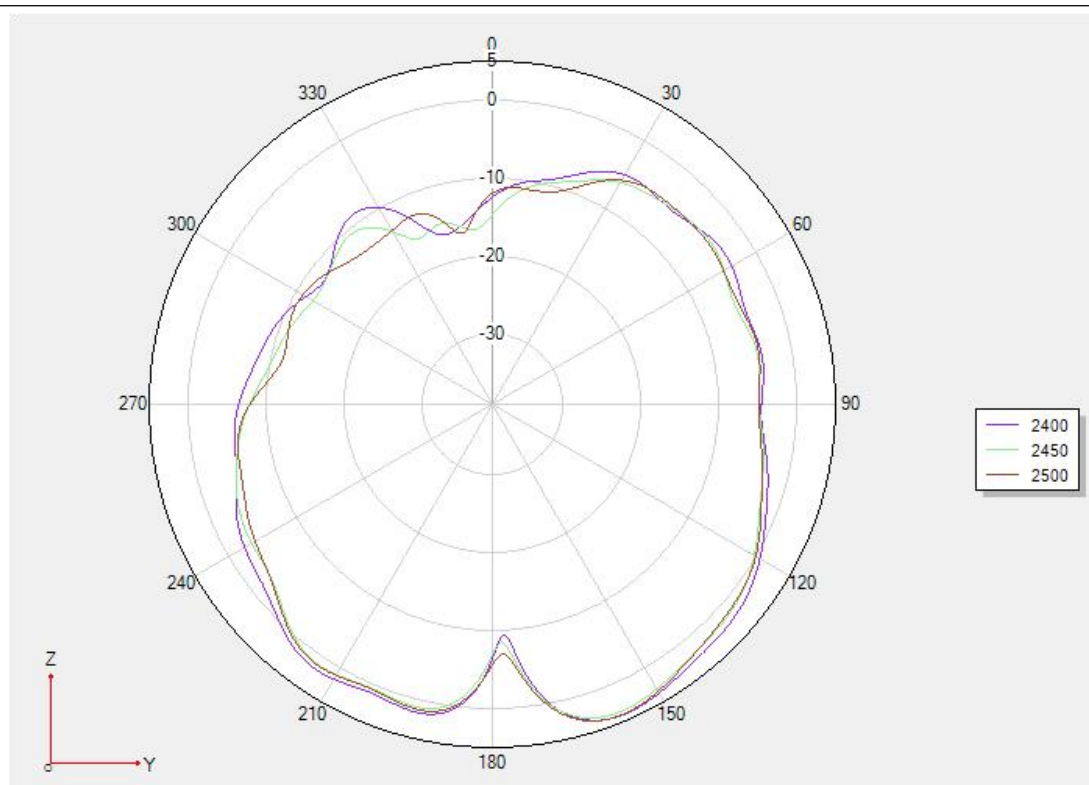
Frequency 频率(MHz)	Gain 增益(dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
5000.00	3.67	-3.58	43.84
5150.00	4.65	-2.56	55.52
5200.00	3.85	-3.13	48.61
5350.00	1.85	-3.97	40.11
5400.00	2.93	-3.52	44.41
5550.00	3.27	-3.37	46.05
5600.00	2.67	-4.16	38.37
5700.00	3.33	-4.01	39.72
5850.00	3.52	-3.79	41.83



PHi 0°
Direction
diagram

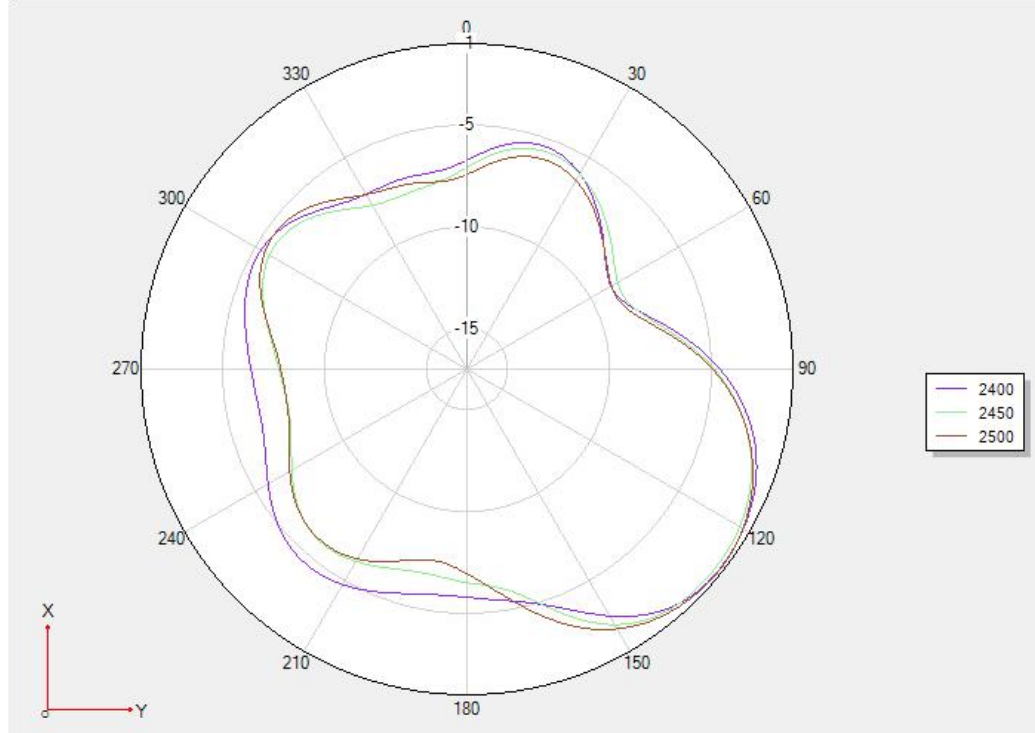


PHi 90°
Direction
diagram



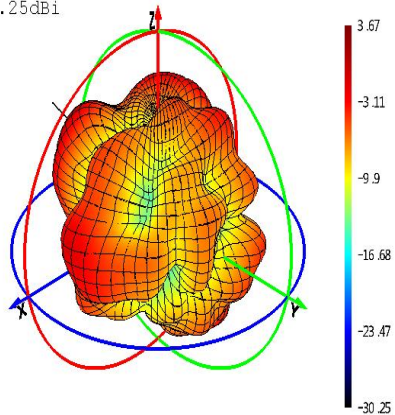


Theta
90°
Direction
diagram

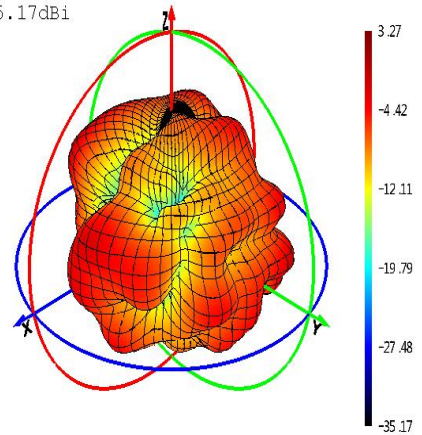


3D
Direction
diagram
(3D
Pattern)

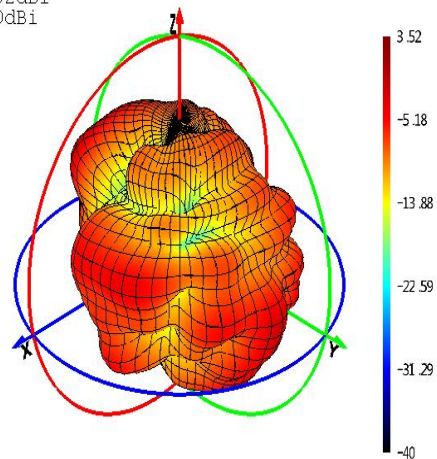
MAX: 3.67dBi
MIN: -30.25dBi



MAX: 3.27dBi
MIN: -35.17dBi



MAX: 3.52dBi
MIN: -40dBi





7.产品结构图&Product structure diagram:

