



深圳市楚风通讯技术有限公司

Shenzhen ChuFeng communication technology co., LTD

深圳市宝安区石岩街道羊台山路51号黎光新永丰工业园5楼A

5F A, Licuang XinYongfeng Industrial Park, No. 51 Yangtaishan Road, Shiyan Street, Baoan District, Shenzhen

产品规格书

SPECIFICATION FOR APPROVAL

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1 、产品说明 Product Description

客户名 Customer name:	
整机类型 Overall machine type:	Paddle antenna
天线频段 Antenna frequency band:	2400MHZ-2500MHZ/5150MHZ-5850MHZ
天线类型 Antenna type:	external antenna
极化方式 polarization mode:	vertical
馈脚数量 Number of feed pins::	/
硬件版本 hardware version	V1

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)	2400-2500/5150-5850
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	<2
增益 GAIN(dBi)	4.23/5.05

机械指标 Mechanical Specifications	
工作温度 Working Temperature ($^{\circ}$ C)	-30—+80
颜色 Line color	黑色/白色
天线尺寸 Antenna size (MM)	153*17.6
接口型号 Interface type	IPEX1
连接线 Connecting line	1.13线-50mm

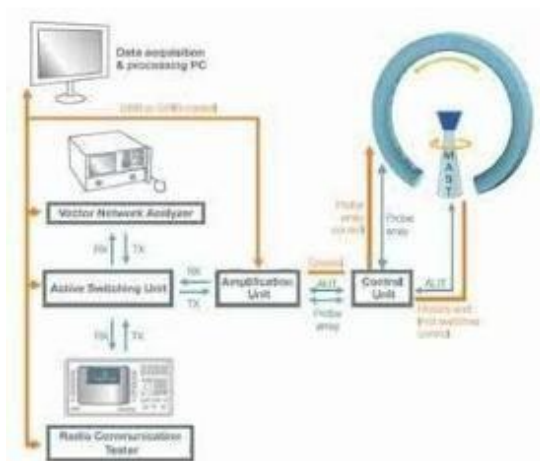
网络分析仪：ZVB8

Network Analyzer:5071c

综合测试仪：Comprehensive tester: R&S CMW500(2/3/4G/NB-IoT/WIFI/BT);

微波暗室: 5G SISO/MIMO, 400 MHz - 8.0 GHz

RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz - 8.0 GHz



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 Humidity Temperature Cycling	(Decay Test Conditions) : 温度:-20°C-80 °C Temperature : -20°C-80 °C 湿度: 0%-90% (Humidity:0%-90% R.H) 持续时间:持续时间:室内72 小时室外96小时 Duration : 72 hours indoors 96 hours outdoors	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: 60°C- 80°C (Temperature:60°C- 85°C) 持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	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:-20°C-40°C (Temperature:-20°C-40°C) 持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	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)

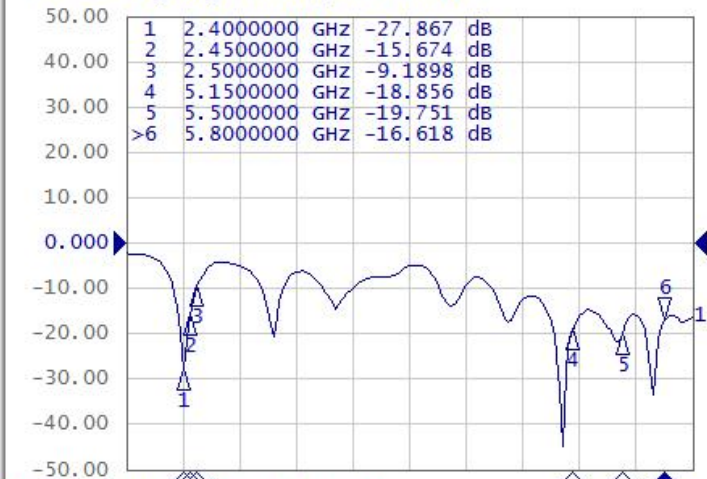
6、测试数据 Test data

VSWR/LOSS/电压驻波/损失

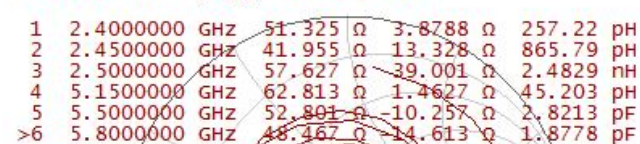
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

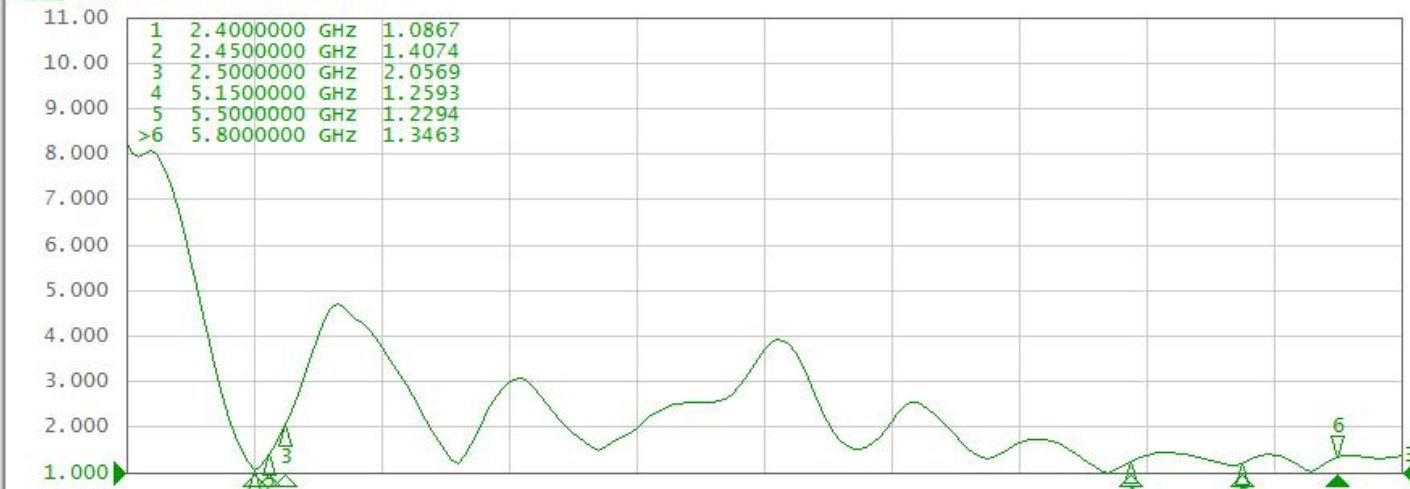
Tr1 S22 Log Mag 10.00dB/ Ref 0.000dB



Tr2 S22 Smith (R+jX) Scale 1.000u



Tr3 S22 SWR 1.000/ Ref 1.000



1 Start 2 GHz

IFBW 70 kHz

Stop 6 GHz Off !

Meas Stop ExtRef Svc

效率Efficiency / % 增益MaxGain/dBi

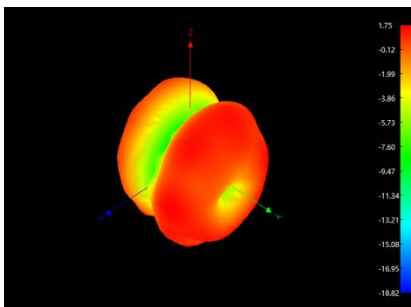
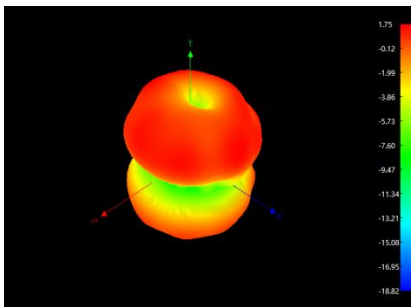
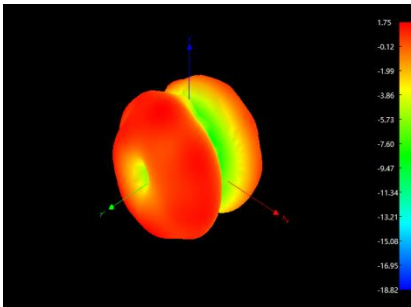
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	69.82	4.23
2410	66.83	3.89
2420	62.09	4.01
2430	66.22	3.97
2440	63.83	3.79
2450	66.53	3.83
2460	64.57	3.44
2470	63.53	3.99
2480	66.07	3.22
2490	58.08	4.14
2500	61.8	3.14

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5100	75.51	4.27
5120	75.34	4.17
5140	73.11	4.34
5160	71.45	4.42
5180	69.18	4.62
5200	65.46	4.51
5220	69.02	4.63
5240	67.92	4.72
5260	64.42	4.29
5280	66.07	4.26
5300	68.55	4.66
5320	69.5	4.81

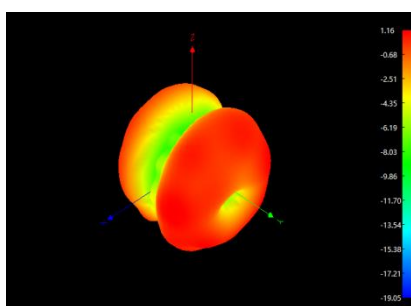
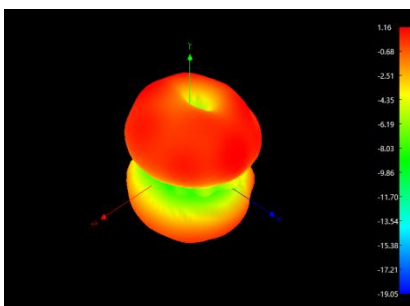
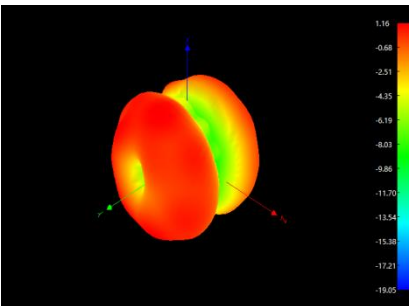
5340	71.45	5.05
5360	71.94	4.91
5380	68.23	4.86
5400	65.77	4.51
5420	62.81	3.99
5440	59.16	3.47
5460	61.66	4.15
5480	59.43	4.01
5500	53.7	3.84
5520	54.2	3.83
5540	56.1	4.05
5560	55.59	3.93
5580	57.41	4.04
5600	56.75	3.74
5620	55.72	3.7
5640	53.7	3.28
5660	52.48	3.82
5680	50.58	3.49
5700	50.47	3.67
5720	52.84	3.64
5740	54.83	3.85
5760	56.23	3.87
5780	56.49	3.88
5800	53.46	3.05
5820	54.2	3.06
5840	54.7	3.07
5860	54.7	3.07

方向辐射图 Radiation Patterns

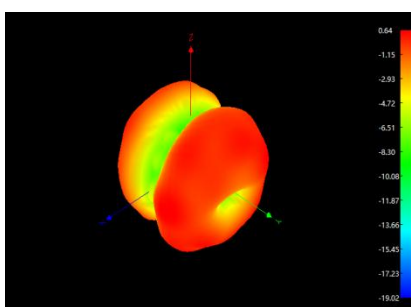
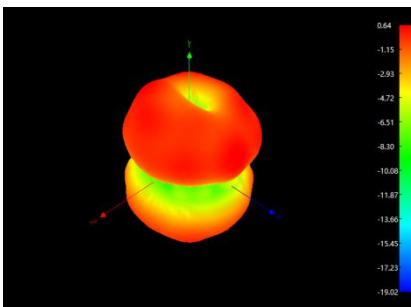
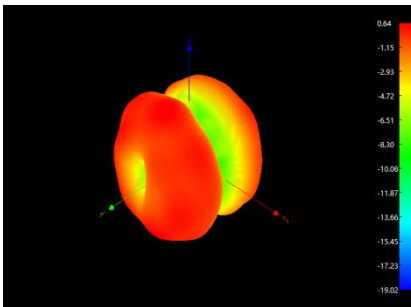
2400M



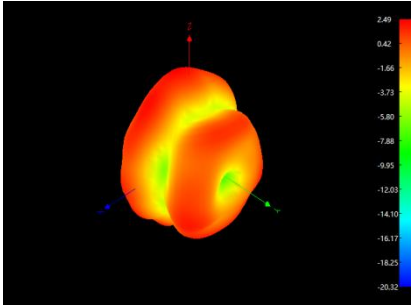
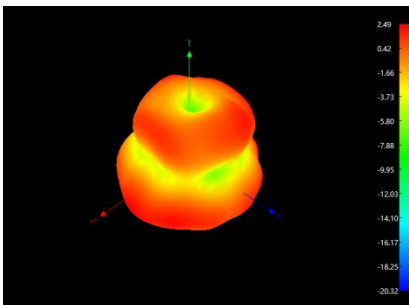
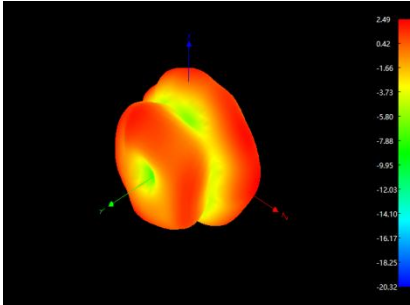
2450M



2500M



5150M



5850M

