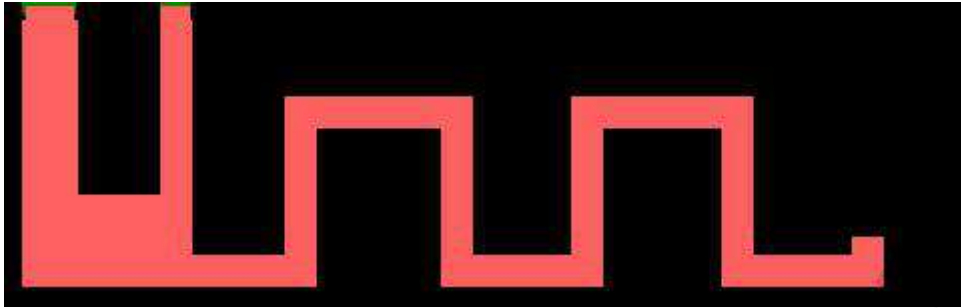


U622A BT ANT SPEC



Type: PCB On Board ANT

Length: 14.5mm

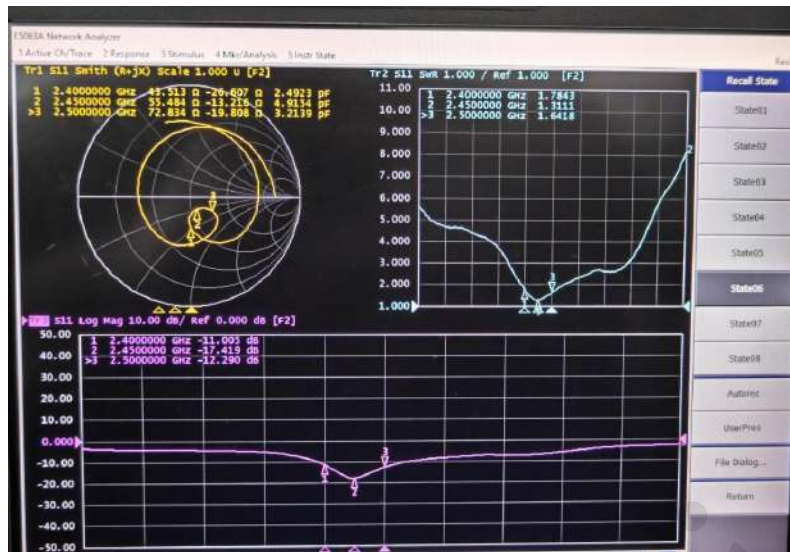
Width: 4.75 mm

Technology: FR4&Cover Resistance Welding Oil

Manufacturer of Antenna: SHENZHEN FENDA TECHNOLOGY CO., LTD.

Address of antenna manufacturer: Fenda Hi-Tech Park, Zhoushi Road,
Shiyan Town, Baoan District, Shenzhen City, Guangdong, China

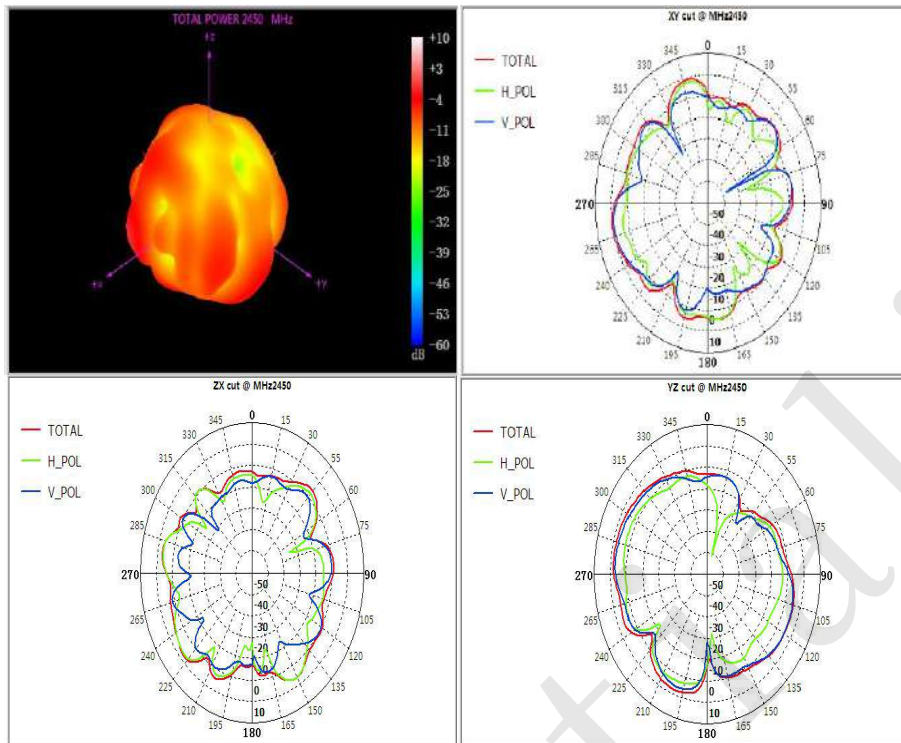
SWR & Return Loss



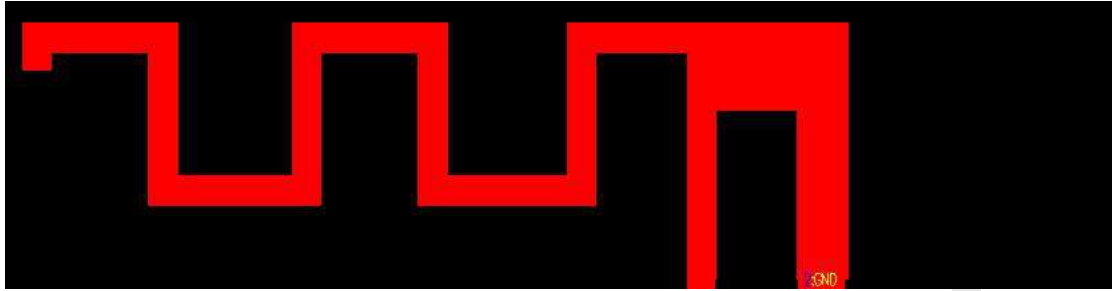
Efficiency & Gain

天线		
Freq(MHz)	Efficiency (%)	Gian(dBi)
2400	34.52	1.48
2410	35.63	1.50
2420	36.82	1.46
2430	35.75	1.51
2440	37.60	1.55
2450	37.48	1.60
2460	36.96	1.62
2470	36.75	1.57
2480	36.80	1.54
2490	35.39	1.45
2500	34.82	1.49

Antenna Radiation Pattern



U622A BLE ANT SPEC



Type: PCB On Board ANT

Length: 14.5mm

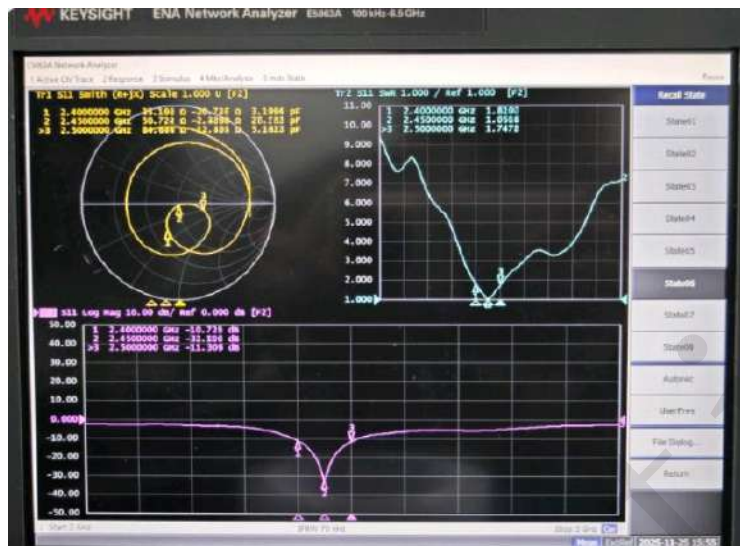
Width: 4.75 mm

Technology: FR4&Cover Resistance Welding Oil

Manufacturer of Antenna: SHENZHEN FENDA TECHNOLOGY CO.,LTD.

Address of antenna manufacturer: Fenda Hi-Tech Park, Zhoushi Road,
Shiyan Town, Baoan District, Shenzhen City, Guangdong, China

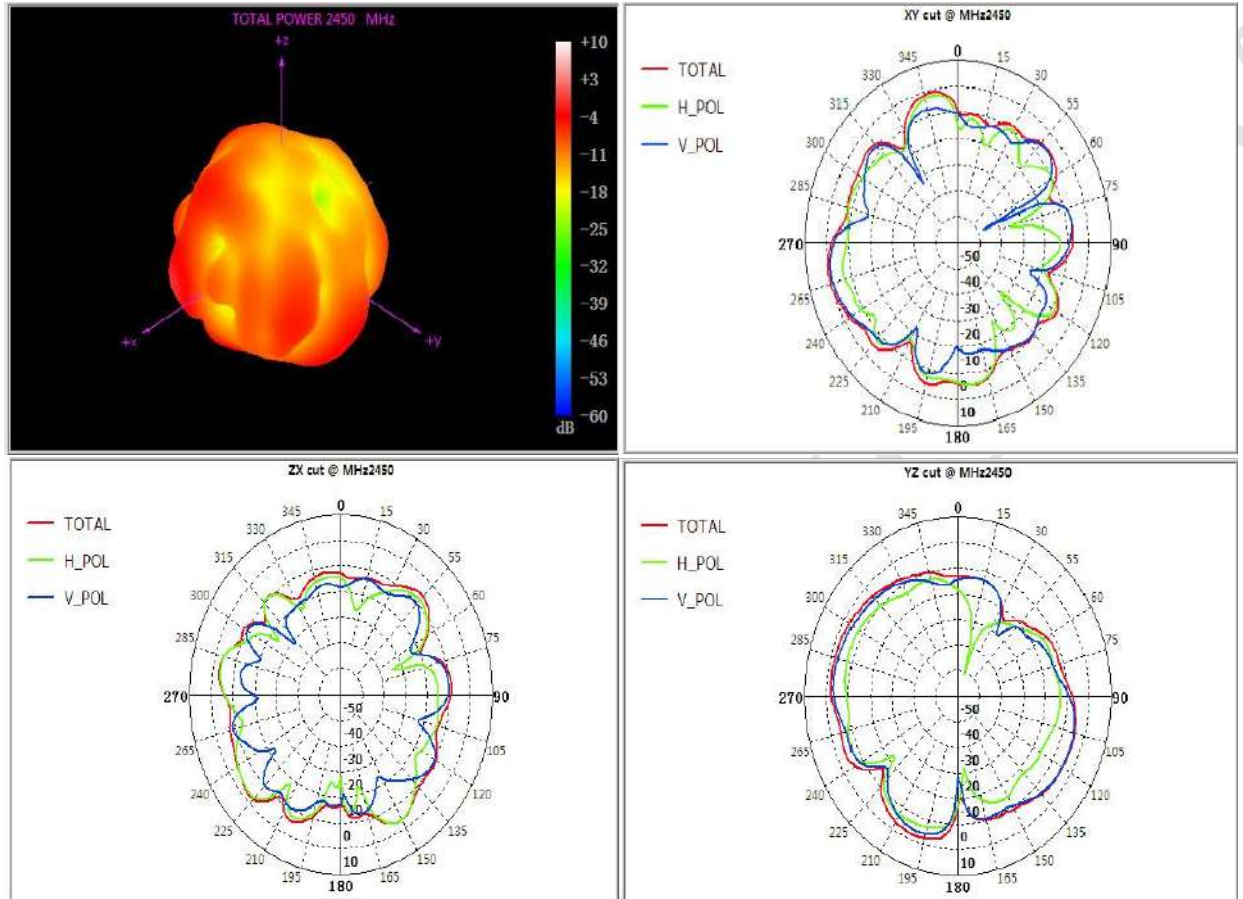
SWR & Return Loss



Efficiency & Gain

天线		
Freq(MHz)	Efficiency (%)	Gian(dBi)
2400	35.22	1.52
2410	35.13	1.53
2420	35.82	1.55
2430	36.72	1.61
2440	36.60	1.62
2450	40.48	1.85
2460	37.28	1.75
2470	37.15	1.68
2480	36.85	1.62
2490	36.29	1.52
2500	35.22	1.51

Antenna Radiation Pattern





Shenzhen Daze Wireless Technology Co., Ltd

深圳市大泽无线技术有限公司

specification

{产品规格书}

规格描述

Specification description

客户名称 (Customer Name)		
客户产品型号编码 (Customer product model code)	U622A (12.001.0017.00500)	
产品名称 (product name)	ANT0 天线	
产品型号 (product model)	DZ071F163	
产品编码 (product code)	10505108	
产品规格 (product standard)	ANT0 天线(黑色 FPC)，一代国产 IPEX，1.13 黑色线线长：100mm，带防震海绵，满足 ROHS2.0	
拟制日期 (date)	2025.11.26	
版 本 (edition)	V2.0	
我司栏 Division column		
拟制 prepared by	审核 audit	批准 ratify
客户栏 Client field		
确认 notarize	审核 audit	批准 ratify

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10. 产品包装规范 Product packaging specification.....	15

变更履历

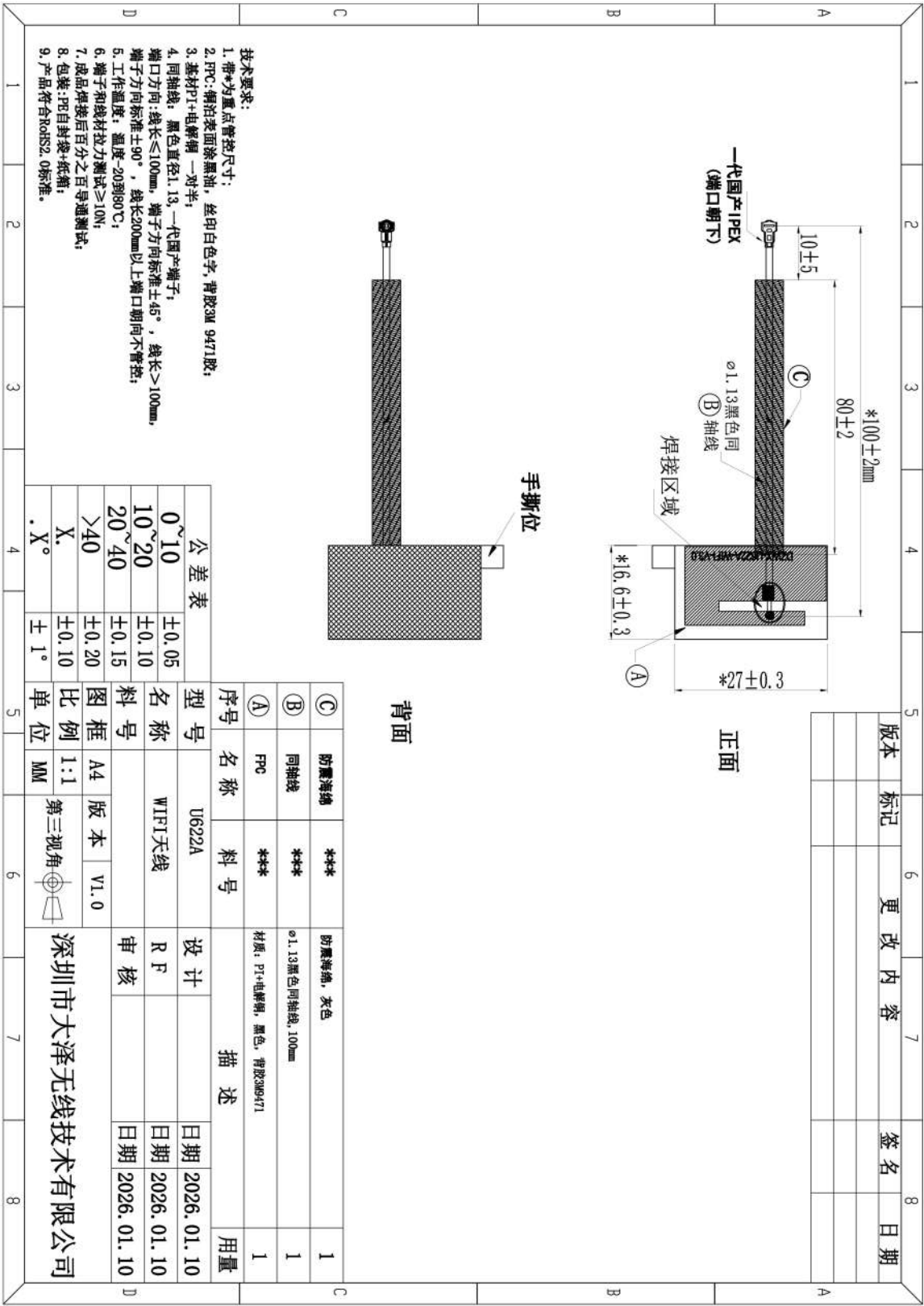
change resume

版本 edition	日期 edition	变更描述 Design change description	备注 remark
1.0	2025.11.26	初版	
2.0	2026.1.15	更改线材线长	

4 • 产品图片 product picture



5 • 工程图 Engineering drawings



6 • 产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	5000–6000MHz
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 VSWR	≤ 2
增益 Gain (dBi)	≤ 5 dBi
极化形式 Polarization Type	线性 Linear
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	16.6*27
基材 base material	PI+电解铜
馈线长度 Cable Length (mm)	1.13 黑色同轴线, L=100 $\pm$ 2mm
连接器型号 Connect Type	一代国产 IPEX 端子
工作温度 Working Temperature ($^{\circ}$ C)	-20 $\sim$ +80 $^{\circ}$
颜色 Radome Color	黑色 Black
安装方式 Mounting Type	粘贴

7 • 测试环境 Test environment

网络分析仪：安捷伦 5071B

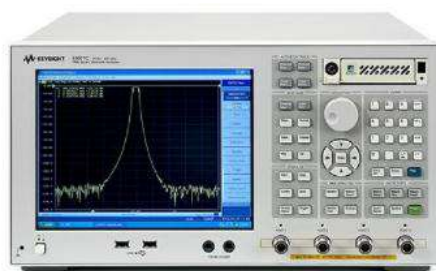
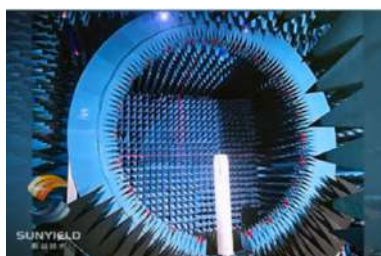
Network Analyzer: Agilent 5071 B

综合测试仪：R&SCMW500 (2/3/4G/NB-IoT/W/BT) ; AnritsuMT80000A

Comprehensive tester: R&S CMW500 (2/3/4G/NB-IoT/WIFI/BT); Anritsu 80000A

新益 SY-24L: 5G SISO/MIMO, 400 MHz - 8.5 GHz

Xin Yi SY-24L Chamber 5G (FR1) SISO/MIMO, 400 MHz - 8.5 GHz

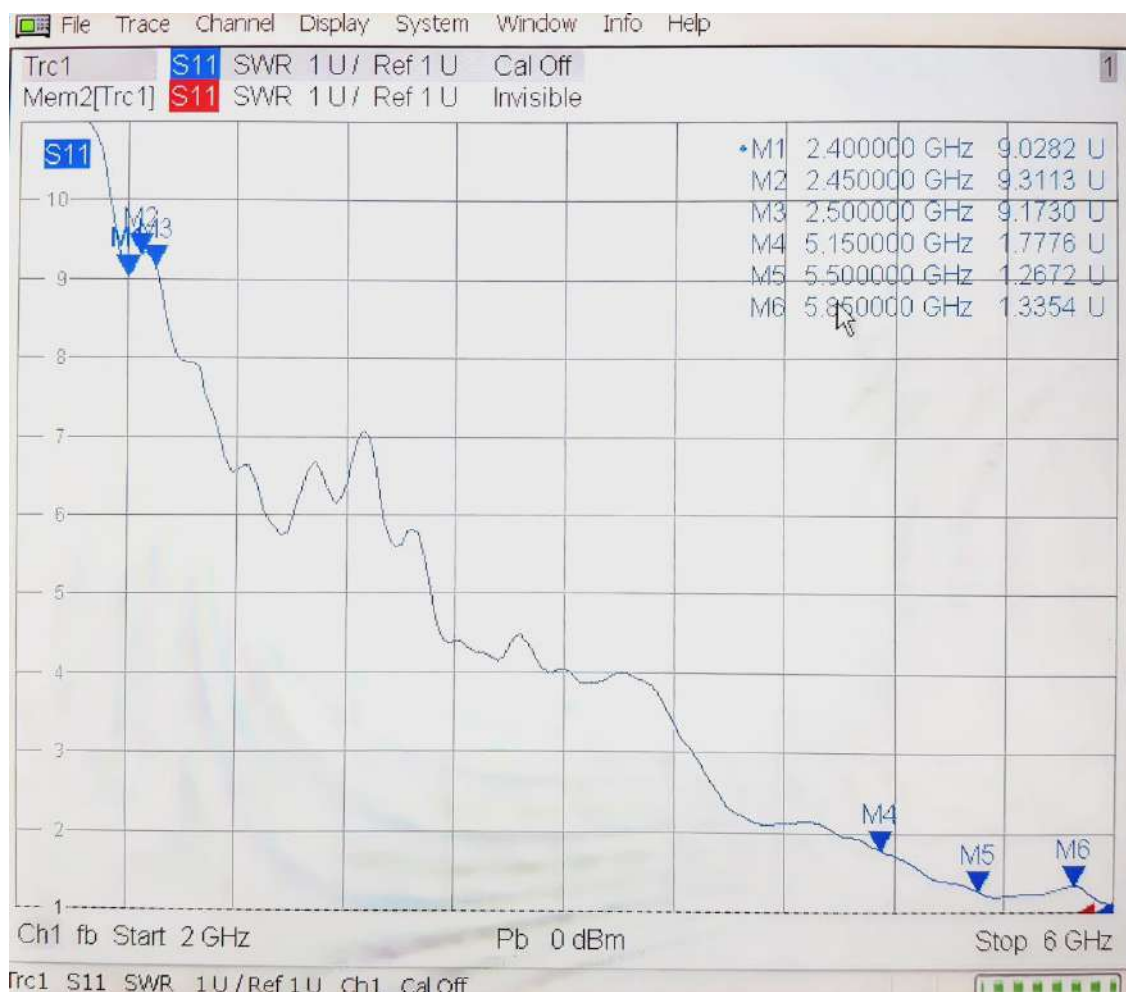


8 • 环境可靠性测试/Environmental Performance

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
盐雾测试 Salt Spray Test	测试条件 (Decay Test Conditions): 35℃±2℃的密闭环境中, 湿度 >80%, PH 值在 6.5-7.2 范围内, 用 5%±1%的 NaCl 溶液 持续时间 (In a 35℃± 2℃ airtight environment, humidity> 80%, PH in the range 6.5-7.2, with 5% ± 1% NaCl solution Duration) :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 (Electrical performance in line with product specifications)
高温试验 High temperature test	测试条件 (Decay Test Conditions): 温度:80℃ (Temperature:80℃) 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 (Electrical performance in line with product specifications)
低温试验 Low Temperature test	测试条件 (Decay Test Conditions): 温度: -20 ± 2℃ (Temperature:-20 ± 2℃) 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 (Electrical performance in line with product specifications)

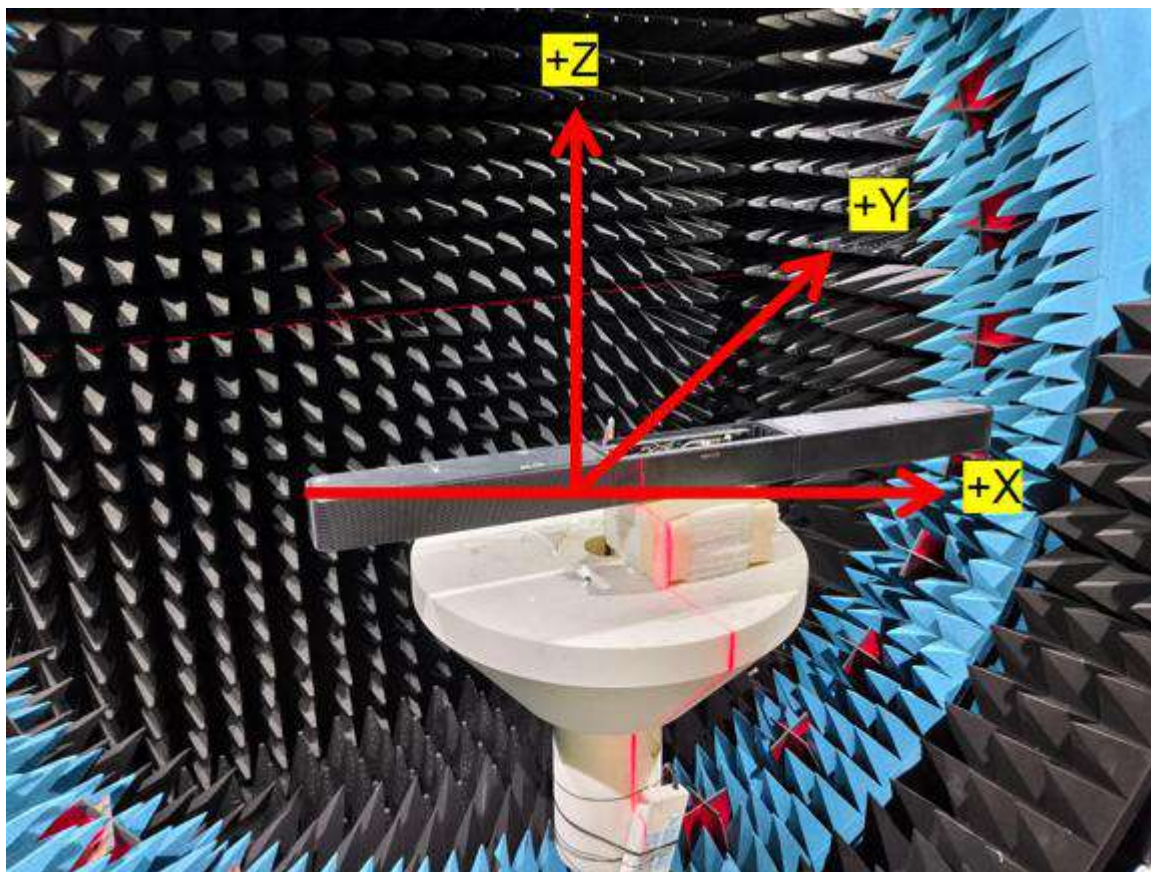
9 • 测试数据 Test data

9.1 驻波比图 VSWR



Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	9.02	9.31	9.17	1.77	1.26	1.33

9.2 天线无源测试数据 Antenna passive test data
测试系统 Test system

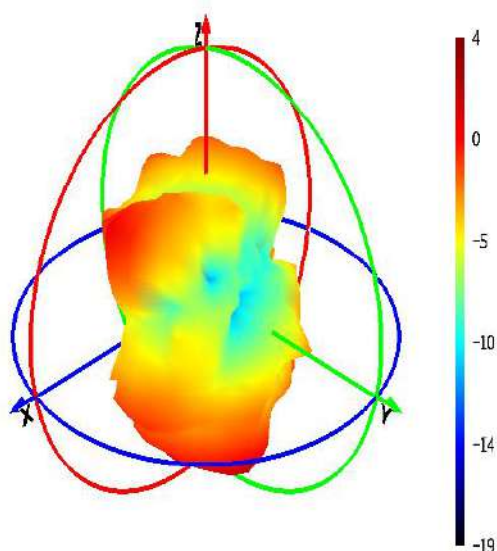


9.3 效率和增益 (Passive test: Efficiency&Gain)

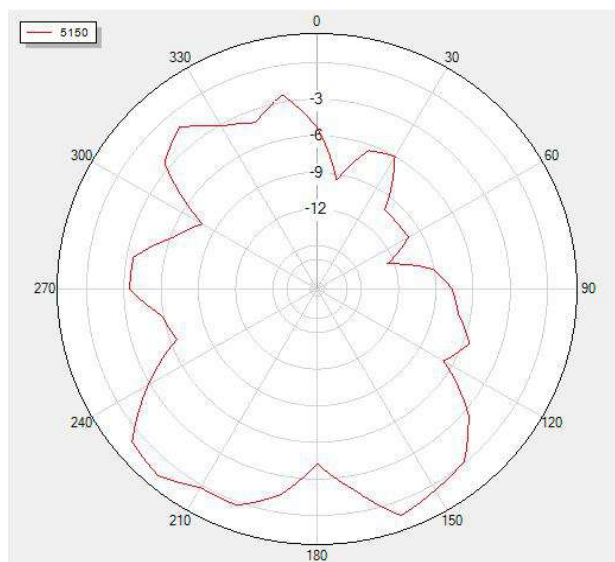
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
5000	3.33	-3.22	47.63
5050	4.9	-2.06	62.19
5100	3.83	-2.73	53.36
5150	3.31	-2.61	54.87
5200	4.15	-2.63	54.53
5250	3.64	-2.78	52.66
5300	3.82	-2.96	50.56
5350	3.7	-3.2	47.89
5400	3.05	-3.41	45.57
5450	4.02	-2.98	50.39
5500	3.4	-3.08	49.23
5550	3.94	-2.68	53.98
5600	4.38	-2.42	57.27
5650	4	-3.1	49.02
5700	4.28	-3.25	47.3
5750	3.19	-3.51	44.52
5800	3.29	-3.29	46.86
5850	3.53	-2.82	52.24
5900	3.94	-2.71	53.61
5950	3.82	-2.52	56
6000	3.78	-2.71	53.57

9.4 方向辐射图 Radiation Patterns

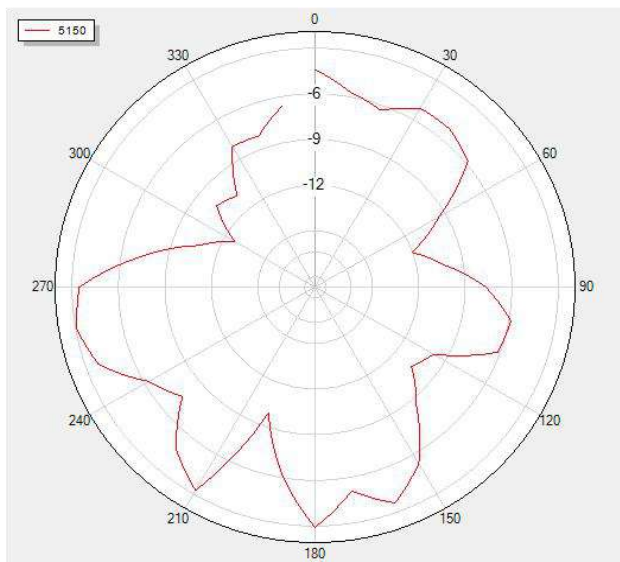
5150MHz



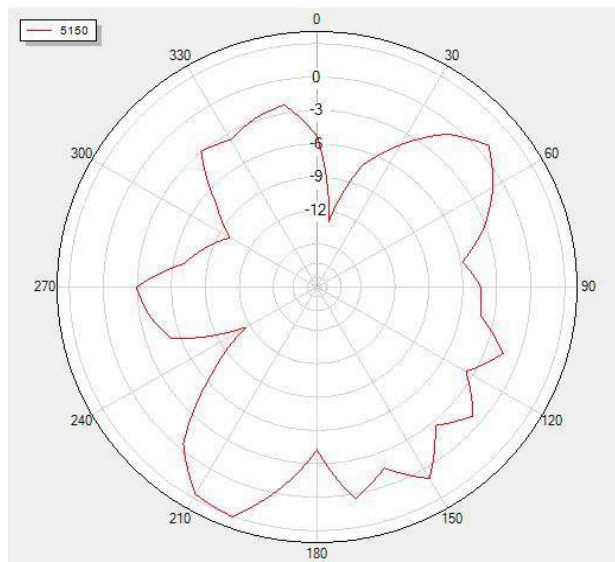
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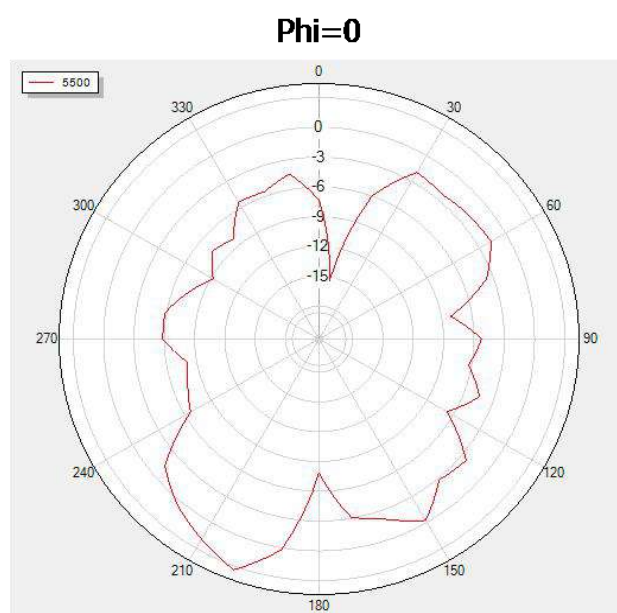
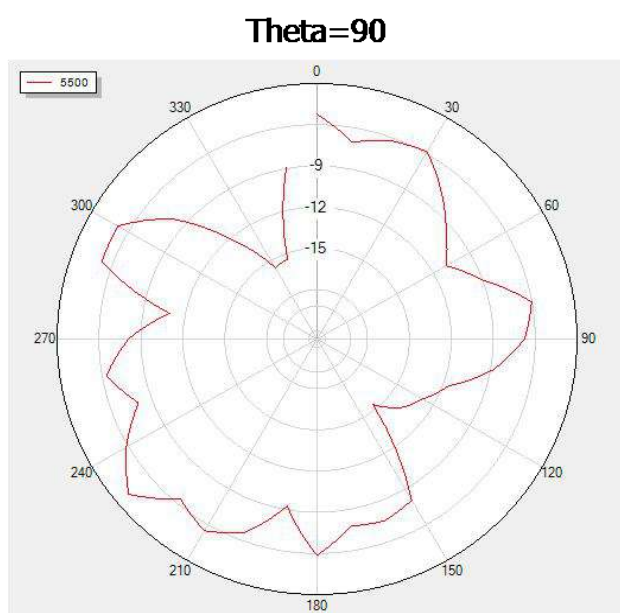
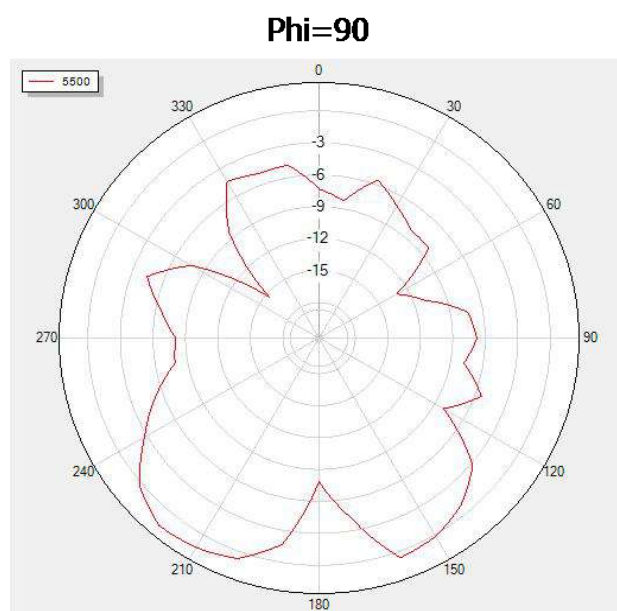
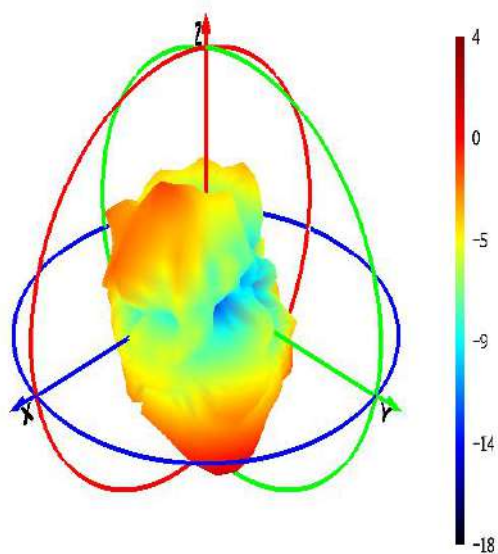
Theta=90



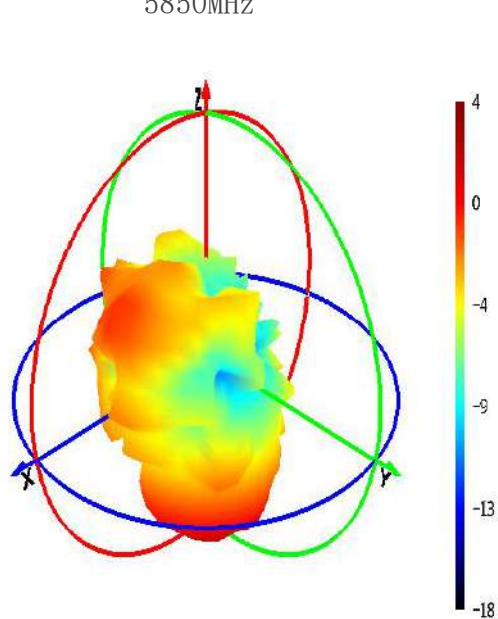
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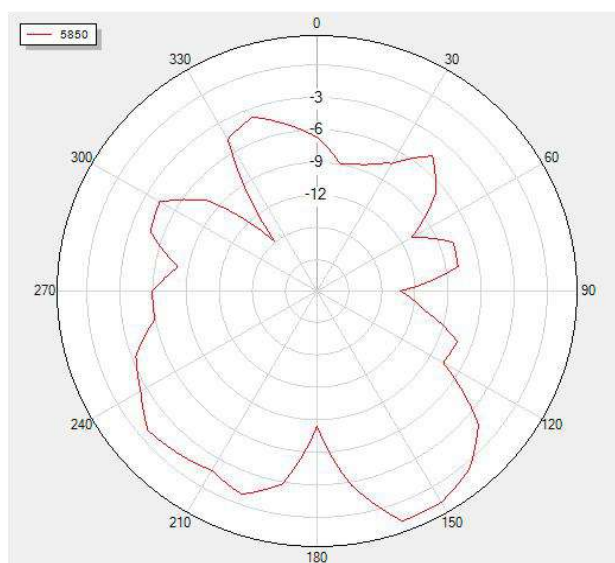
5500MHz



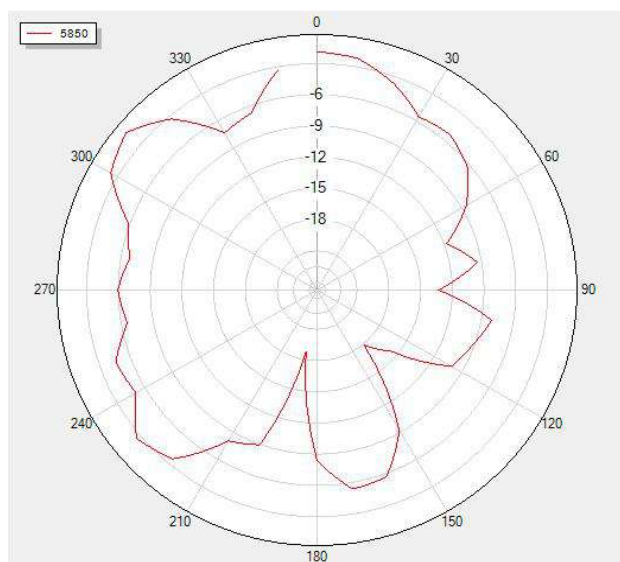
5850MHz



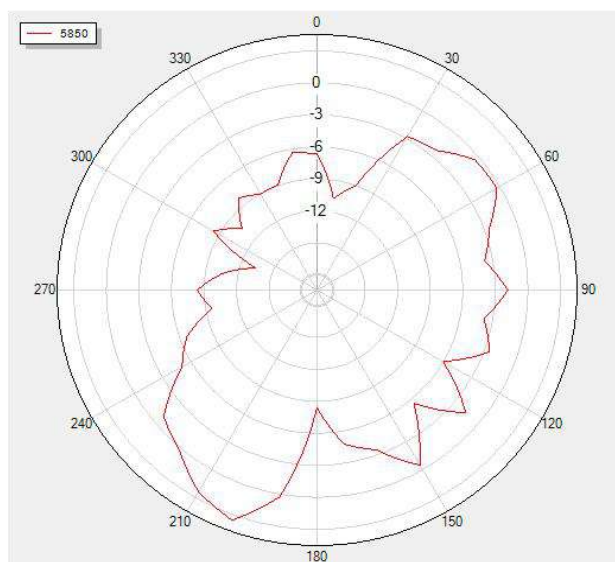
Phi=90



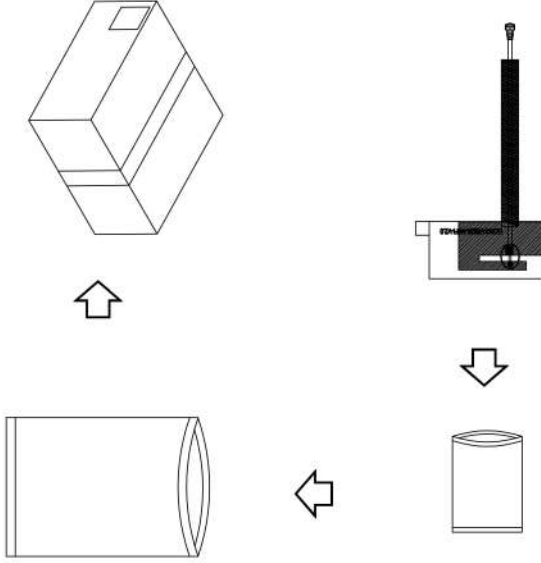
Theta=90



Phi=0



10 • 产品包装规范 Product packaging specification

深圳市大泽无线技术有限公司BOM表					
Shenzhen DAZE Wireless technology Co., Ltd					
包装规范					
版本	修订内容		修订日期	修订人	
	作业方法(自检该工序作业合格后,方能流入下一道工序)		物料名称		
	1. 每个PE小袋子里放置50PCS产品并贴好数量,再放置于一个PE大袋子里,每大包装500PCS(可按实际情况包装,大包装需贴标签,标识数量型号),每箱暂定包装3000PCS,尾数再另起一个PE袋。			1. 注意标签有无贴错、漏贴、箱子有无破损;	
	2. 将包装好的产品装箱,用牛卡(双层瓦楞)纸箱外包装(总数量按实际情况而定)外箱封箱后在右上角贴好标签(料号、数量、型号、规格、日期)。			2. 附出货检验报告。	
	图示仅供参考,具体以实物为准			物料名称	
				用量	
				规格	
产品型号			日期		
U622A			2025. 11. 26		
产品名称			制定		
WIFI天线(FPC+同轴线)			王明		



Shenzhen Daze Wireless Technology Co., Ltd

深圳市大泽无线技术有限公司

specification

{产品规格书}

规格描述

Specification description

客户名称 (Customer Name)		
客户产品型号编码 (Customer product model code)	U622A (12.001.0017.00501)	
产品名称 (product name)	ANT1 天线	
产品型号 (product model)	DZ071F162	
产品编码 (product code)	/	
产品规格 (product standard)	ANT1 天线(黑色 FPC)，一代国产 IPEX，1.13 黑色线线长：125mm，带防震海绵，满足 ROHS2.0	
拟制日期 (date)	2025.11.26	
版 本 (edition)	V2.0	
我司栏 Division column		
拟制 prepared by	审核 audit	批准 ratify
客户栏 Client field		
确认 notarize	审核 audit	批准 ratify

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变更履历

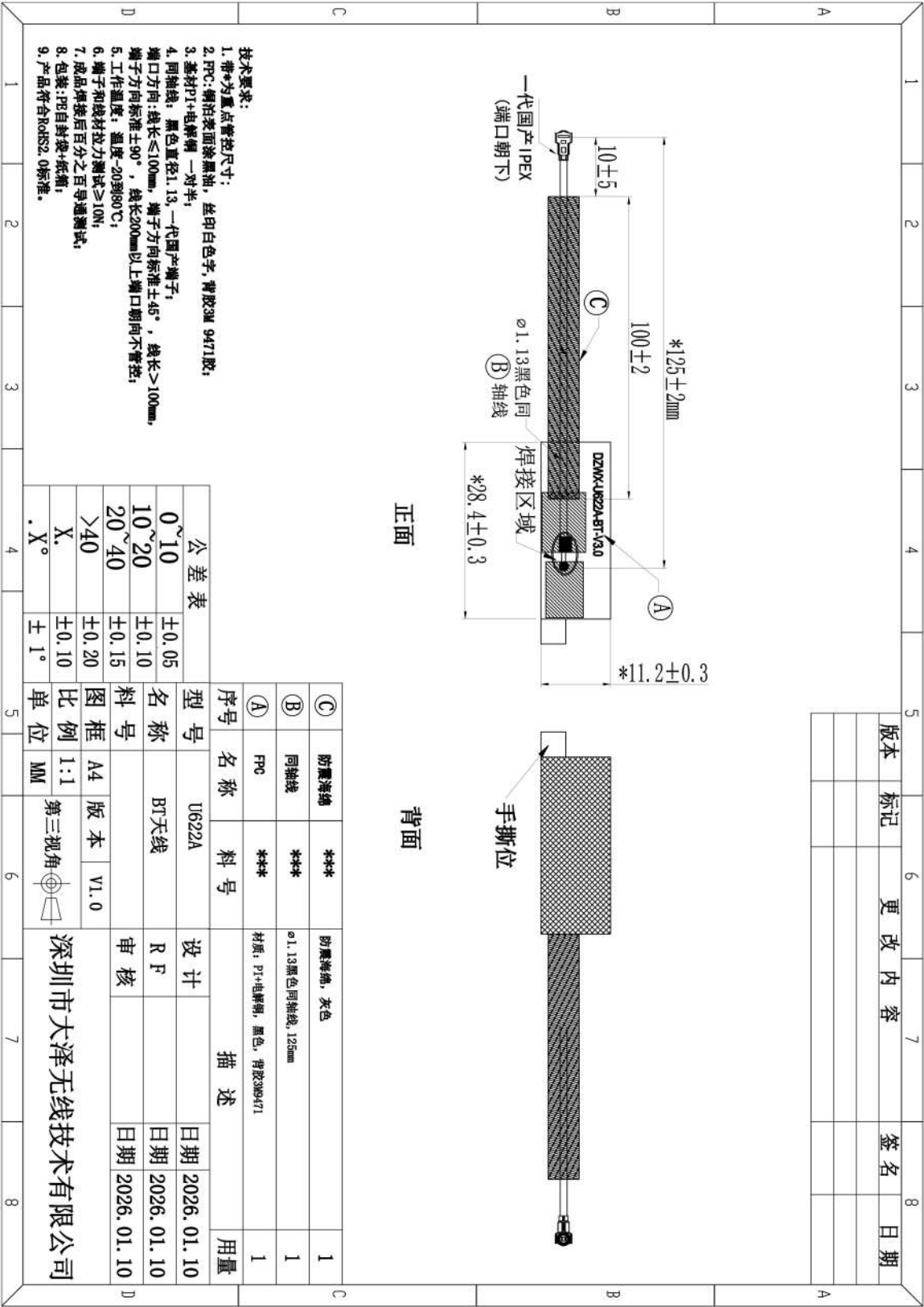
change resume

版本 edition	日期 edition	变更描述 Design change description	备注 remark
1.0	2025.11.26	初版	
2.0	2026.1.15	更改线材线长	

4 • 产品图片 product picture



5 • 工程图 Engineering drawings



6 • 产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	5000-6000MHz
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 VSWR	≤ 2
增益 Gain (dBi)	≤ 6.5 dBi
极化形式 Polarization Type	线性 Linear
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	11.2*28.4
基材 base material	PI+电解铜
馈线长度 Cable Length (mm)	1.13 黑色同轴线, L=125 $\pm$ 2mm
连接器型号 Connect Type	一代国产 IPEX 端子
工作温度 Working Temperature ($^{\circ}$ C)	-20 $\sim$ +80 $^{\circ}$
颜色 Radome Color	黑色 Black
安装方式 Mounting Type	粘贴

7 • 测试环境 Test environment

网络分析仪：安捷伦 5071B

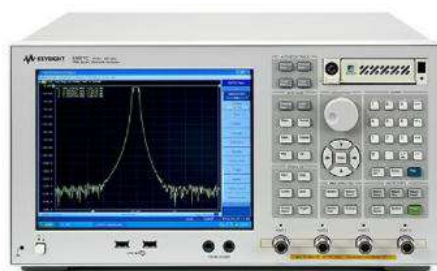
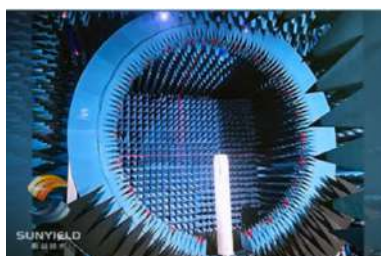
Network Analyzer: Agilent 5071 B

综合测试仪：R&SCMW500 (2/3/4G/NB-IoT/W/BT) ; AnritsuMT80000A

Comprehensive tester: R&S CMW500 (2/3/4G/NB-IoT/WIFI/BT); Anritsu 80000A

新益 SY-24L: 5G SISO/MIMO, 400 MHz - 8.5 GHz

Xin Yi SY-24L Chamber 5G (FR1) SISO/MIMO, 400 MHz - 8.5 GHz

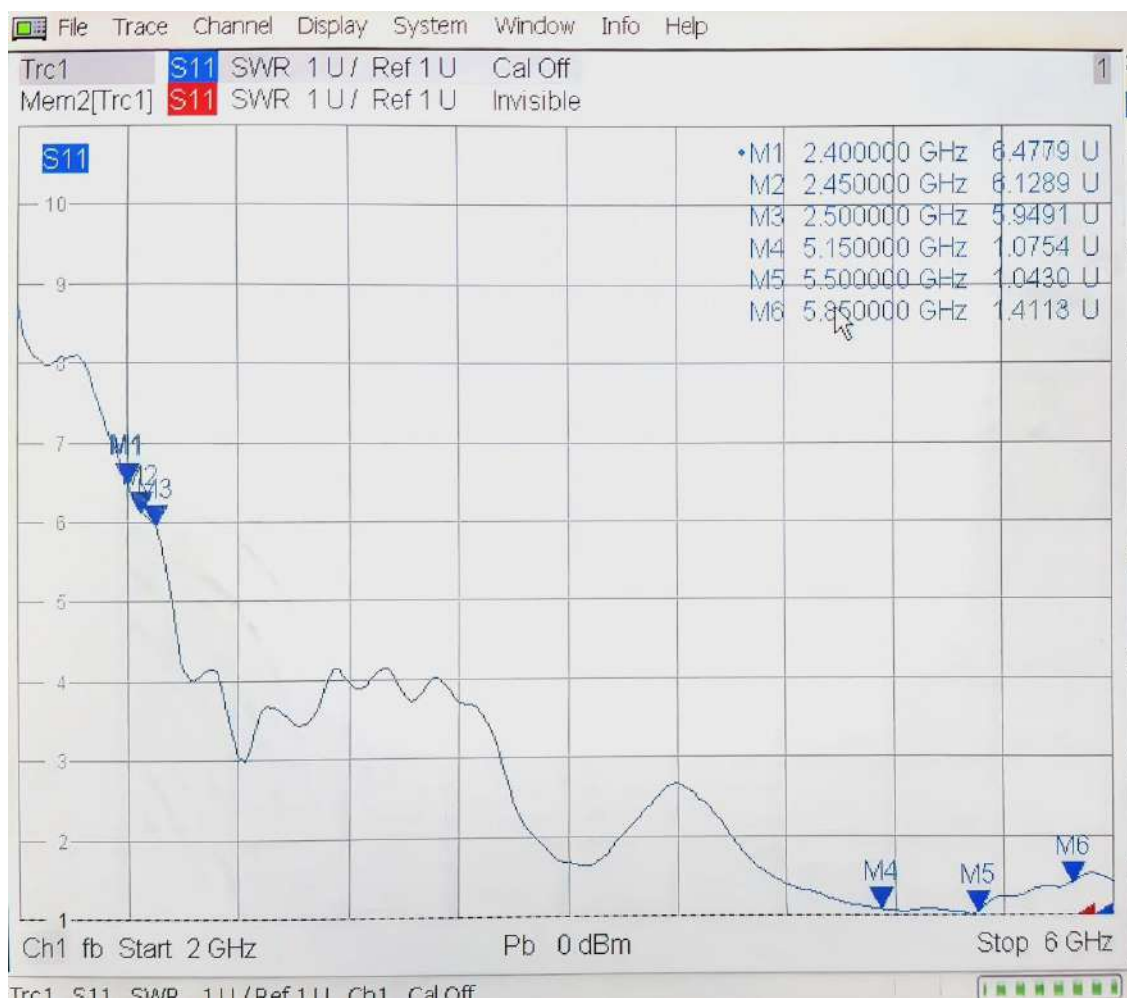


8 • 环境可靠性测试/Environmental Performance

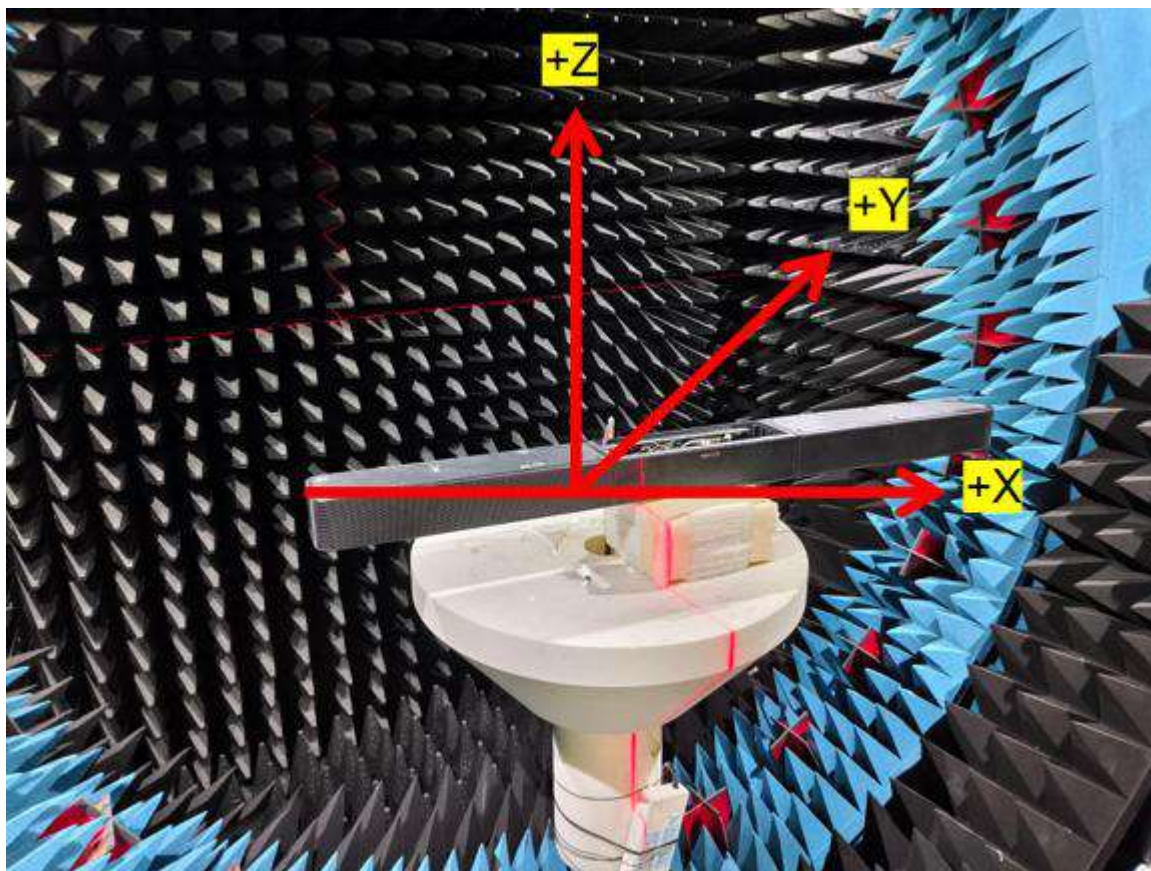
环境可靠性测试/Environmental Performance		
测试项目 Test Description	测试程序和条件 Test Procedures & Condition	测试要求 Requirements
盐雾测试 Salt Spray Test	测试条件 (Decay Test Conditions): 35℃±2℃的密闭环境中, 湿度 >80%, PH 值 在 6.5-7.2 范围内, 用 5%±1%的 NaCl 溶液 持续时间 (In a 35℃± 2℃ airtight environment, humidity> 80%, PH in the range 6.5-7.2, with 5% ± 1% NaCl solution Duration) :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 (Electrical performance in line with product specifications)
高温试验 High temperature test	测试条件 (Decay Test Conditions): 温度:80℃ (Temperature:80℃) 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 (Electrical performance in line with product specifications)
低温试验 Low Temperature test	测试条件 (Decay Test Conditions): 温度: -20 ± 2℃ (Temperature:-20 ± 2℃) 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 (Electrical performance in line with product specifications)

9 • 测试数据 Test data

9.1 驻波比图 VSWR



Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	6.47	6.12	5.94	1.07	1.04	1.41

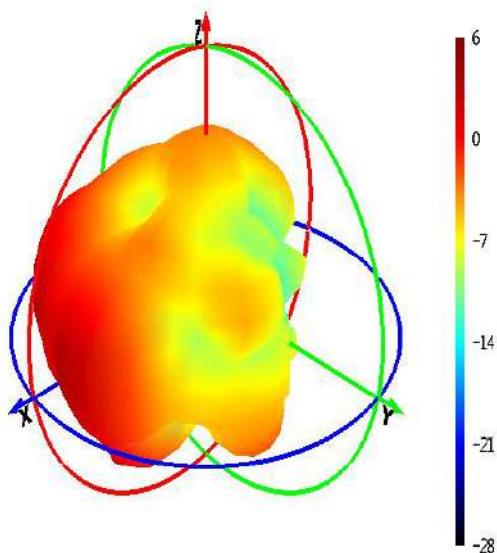


9.3 效率和增益 (Passive test: Efficiency&Gain)

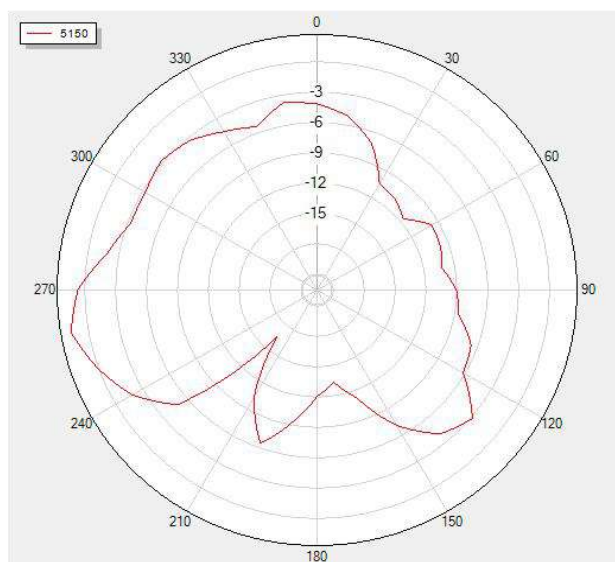
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
5000	4.87	-2.69	53.87
5050	5.75	-1.83	65.63
5100	4.96	-2.2	60.23
5150	5.03	-1.96	63.67
5200	5.68	-2.01	62.99
5250	5.18	-2.26	59.46
5300	4.74	-2.43	57.19
5350	4.7	-2.58	55.23
5400	4	-2.93	50.92
5450	5.05	-2.47	56.64
5500	4.9	-2.26	59.45
5550	5.41	-1.91	64.42
5600	6.01	-1.65	68.34
5650	5.22	-2.21	60.12
5700	5.14	-2.56	55.48
5750	4.9	-2.74	53.21
5800	5.03	-2.45	56.83
5850	5.35	-2.1	61.67
5900	5.38	-2.06	62.29
5950	4.89	-1.85	65.33
6000	4.74	-1.97	63.61

9.4 方向辐射图 Radiation Patterns

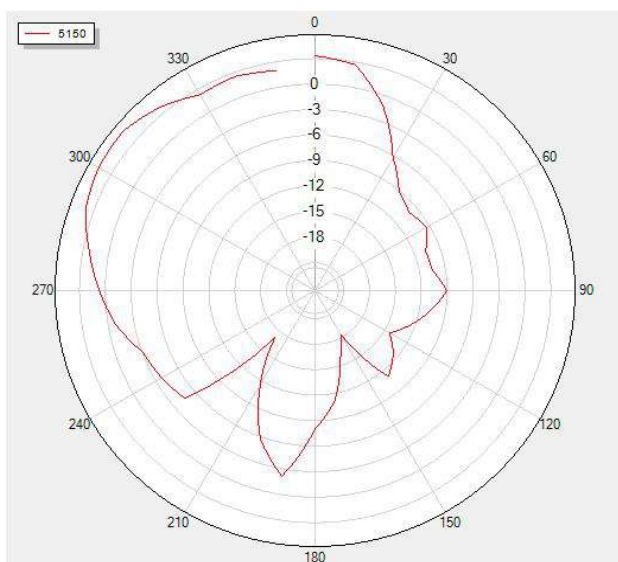
5150MHz



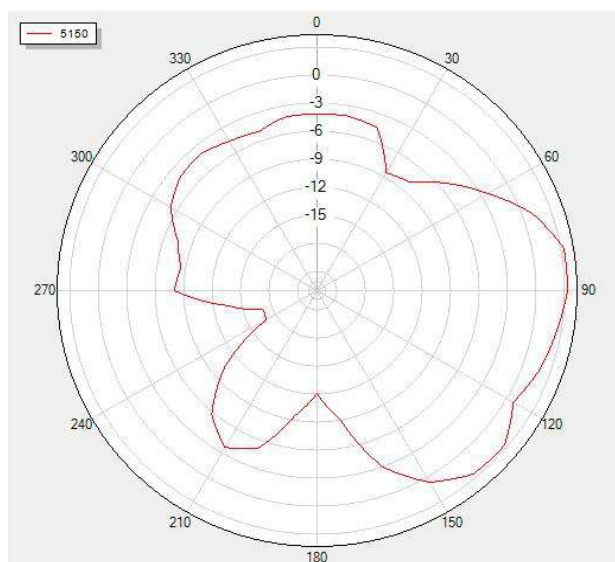
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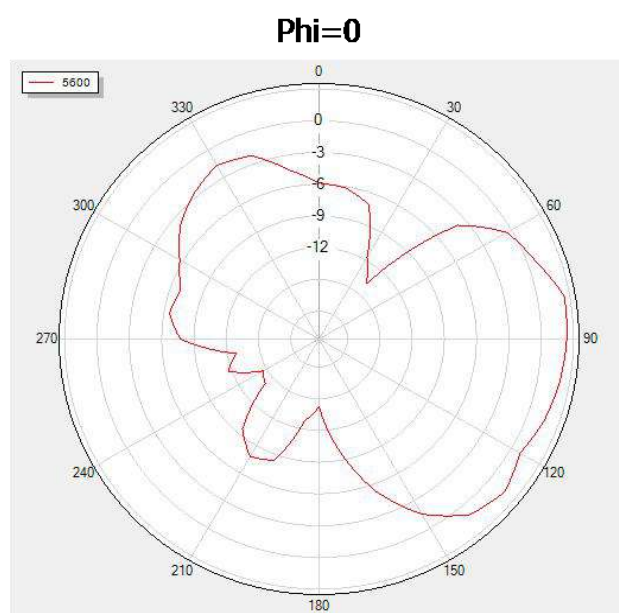
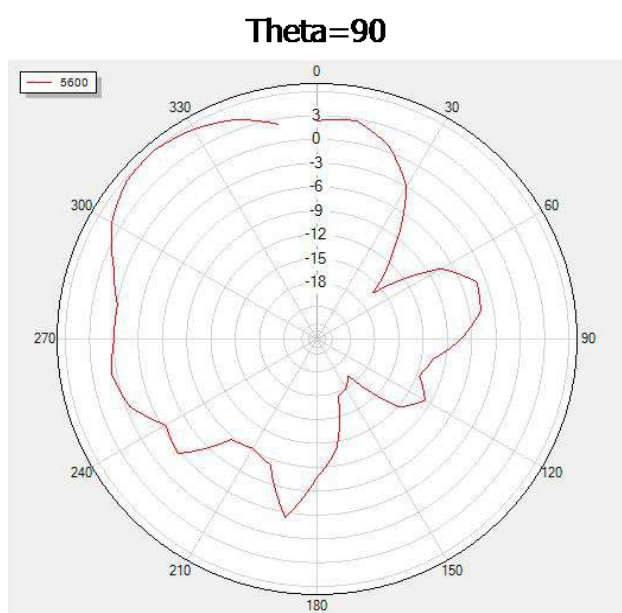
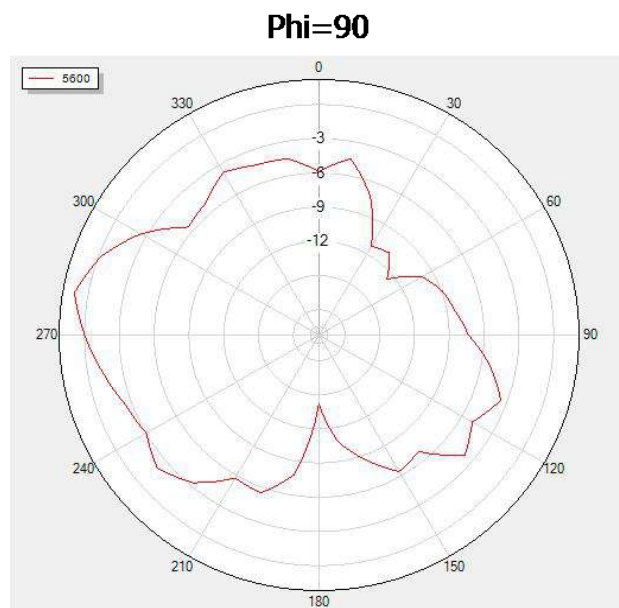
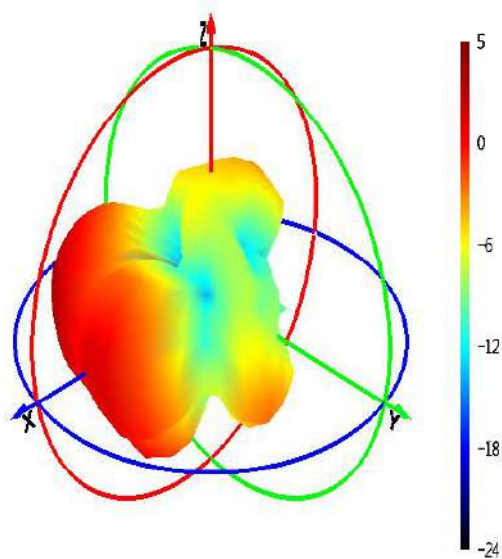
Theta=90



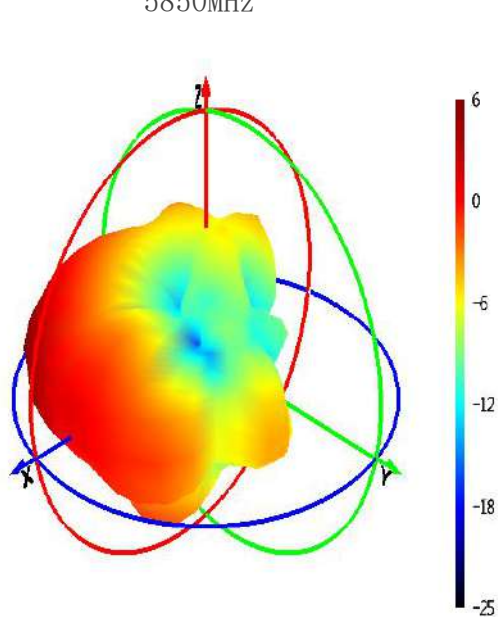
Phi=0



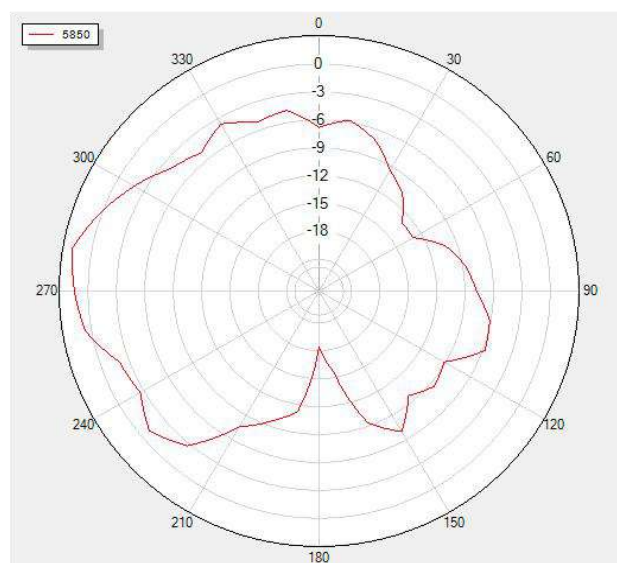
5500MHz



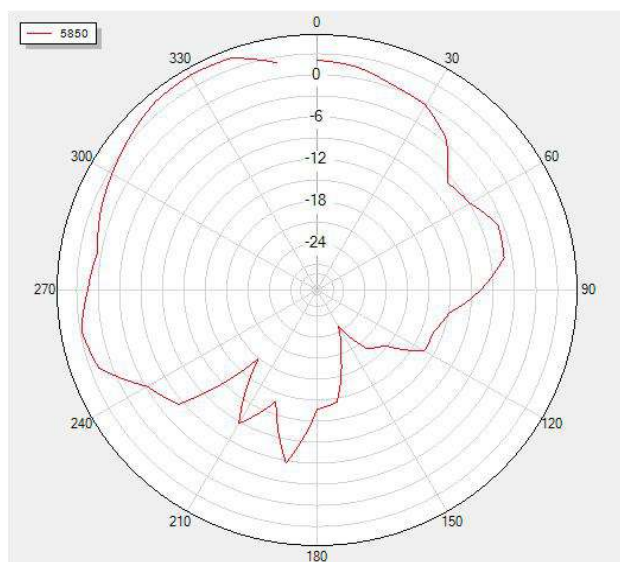
5850MHz



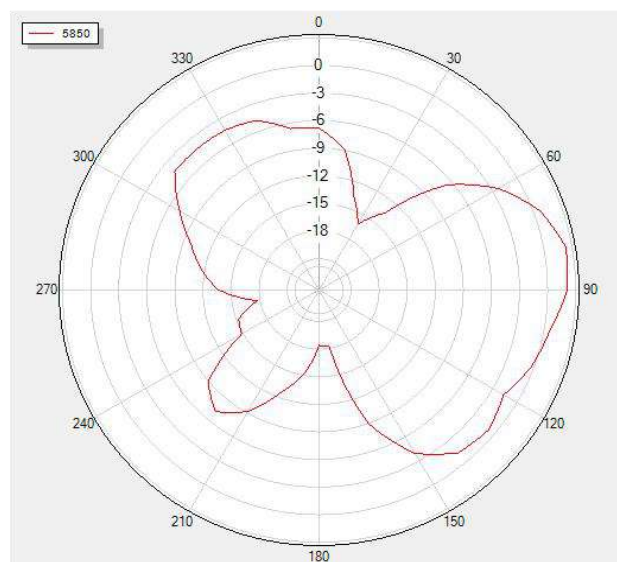
Phi=90



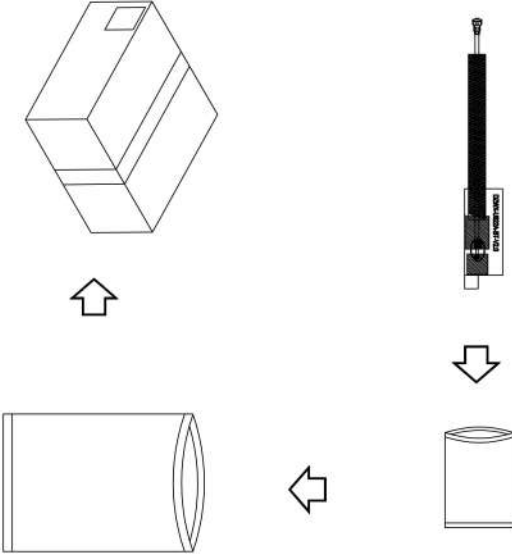
Theta=90



Phi=0



10 • 产品包装规范 Product packaging specification

深圳市大泽无线技术有限公司BOM表				
Shenzhen DAZE Wireless technology Co., Ltd				
包装规范				
版本		修订内容	修订日期	修订人
				
作业方法(自检验工序作业合格后,方能流入下一道工序)		物料名称		
1. 每个PE小袋子里放置50PCS产品并贴好数量,再放置于一个PE大袋子里,每大包装500PCS(可按实际情况包装,大包装需贴标签,标识数量型号),每箱暂定包装3000PCS,尾数再另起一个PE袋。		1. 注意标签有无贴错、漏贴、箱子有无破损; 2. 附出货检验报告。		
2. 将包装好的产品装箱,用牛卡(双层瓦楞)纸箱外包装(总数量按实际情况而定)外箱封箱后在右上角贴好标签(料号、数量、型号、规格、日期)。				
图示仅供参考,具体以实物为准		物料名称	用量	规格
产品型号		产品名称	日期	制定
U622A		BT天线(FPC+同轴线)	2025. 11. 26	王明