

天线产品规格承认书

ANTENNA SPECIFICATION FOR APPROVAL

客户 CUSTOMER : 深圳阿尔木创新科技有限公司客户方料号 CUSTOMER NO : XD-FL-00540品名 PART NAME : 2.4GHz T型 发射天线供货方料号 SUPPLIER : S-RM-A04送样日期 DATE: 2022-10-19 送样数量 QTY 10Pcs**承认书包括以下项目**

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客户确认 CUSTOMER APPROVED BY

APPROVAL	CHIEF	SUPERVISOR

供货方确认 SUPPLIER SIGNATURE BY



APPROVAL	CHECK	DESIGN

天线规格 Specification

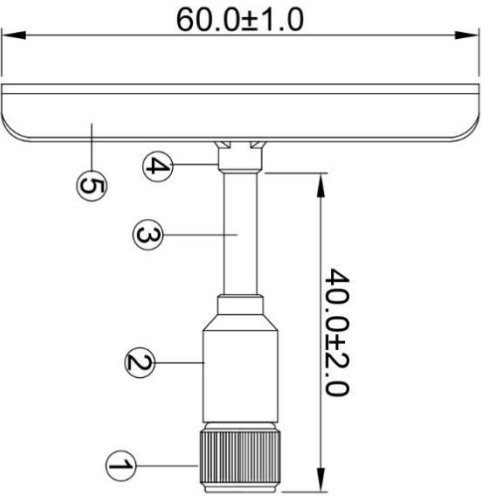

电器参数 Electrical Properties	
频率 Frequency	2400MHz-2500MHz
输入阻抗 Impedance	50 Ω
驻波比 S. W. R	≤ 1.5
回波损耗 Return Loss	详见 S 参数测试
辐射方式 Radiation	全指向性 Omnidirectional
增益 Gain (Peak)	4.11 dBi max
极化方式 Polarization	线性 Linear

结构参数 Physical Properties	
天线材质 Antenna material	Cu
外壳材质 Cover material	PC
同轴电缆 Cable	RG-402
连接器 Connector	反极 SMA RP-SMA
尺寸 Size	详见工程图
重量 Weight	详见工程图
包装 Packing	PE bags

工程图 Drawing

CUSTOMER	RADIOMASTER	 Compatible	REV:  DESCRIPTION 首次发行	DATE 2022-10-19
PART NO	XD-FL-00540			

NO	PART NAME	DESCRIPTION	Q.TY
5	Antenna Cap	PC, Color:black	1
4	Upper Base	PC, Color:black	1
3	Coaxial Cable	RG-402 black	1
2	Bottom Base	PBT, Color:black	1
1	SMA Male Reverse	CU black	1

RUSHIPV		深圳亦是科技有限公司 Shenzhen Yishi technology Co., Ltd	
PART NAME: 2.4GHz T Antenna (TRANSMITTER)			
PART NO.: S-RM-A04		DATE: 2022-10-19	
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
Ziyuan Dongsheng			X X ±0.50 X X ±0.15 X° ±3°
UNITS: mm		SCALE: 1/1	
REVISION: A			

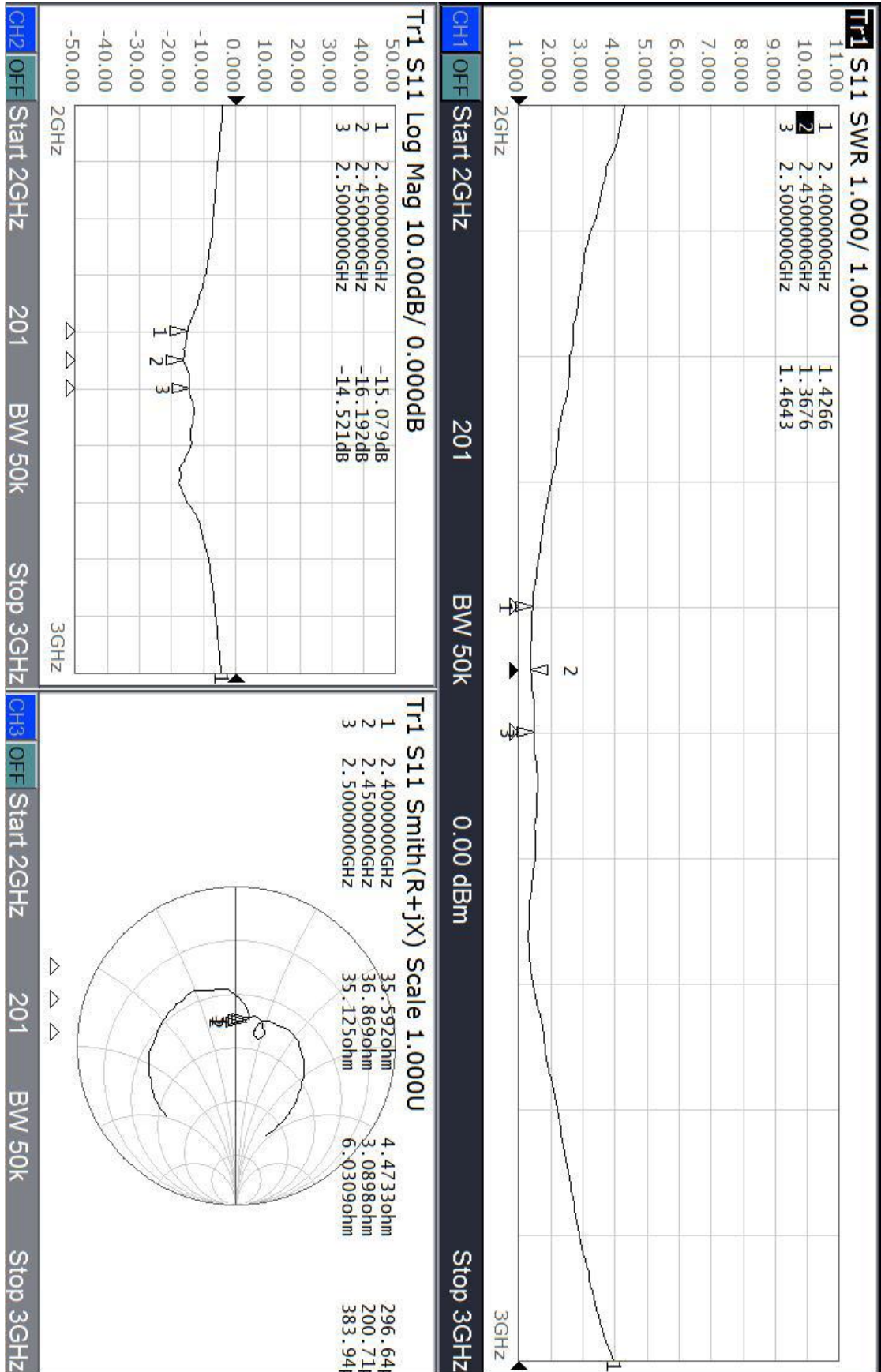
机械性能测试

1	摇摆测试 BENDING TEST	放离接头 30CM 的线端上负荷 120g, 固定接头后进行摇摆测试, 摇摆角度左右各 60 度, 摇摆 1000 次后测试特性.	摇摆 1000 次后测试特性无任何现象显示电器性能之损坏.
2	强度测试 STRENG TEST	一个 15 磅之静负荷施加放线端底部持续一分钟.	无任何现象显示机械及电器性能之损坏.
3	拉力测试 PULLING FORCE	用拉力计接头及线材间进行拉力测试.	可承受拉力为 7Kg 无任何现象显示电器性能之损坏.
4	振动测试 VIBRATION TEST	以 1.10mm 和振幅和 33.30Hz/sec 振动频率以 X 轴方向振动 120 分钟, Y 轴方向振动 120 分钟, Z 轴方向振动 240 分钟.	无任何现象显示电器性能之损坏.

耐久性测试

1	盐雾测试 SAIT SPRAY TEST	<p>盐水喷雾试验: 依 GB1266-86 标准 蒸馏水: 一次蒸馏 PH6.5~7 喷雾量: 1.4me80cm²/h 压缩空气压力: 1Kgf/ cm² 试验相对度: 98° 温度: 45°~47° 压力温度: 35° 测试时间: 96hr</p>	<p>所有规格变化范围初始值 30% All characteristic range is 30% of the initial value</p>
2	高温测试 HUMIDITY TEST	<p>在 85+2°C 环境中放 96 小时, 再放在正常环境中 30 分钟后进行测试 85+2°C for 96 hours, after keep in normal condition for 30mim the to test.</p>	
3	湿度测试 PULLING FORCE	<p>在 -40+2°C 环境中放 96 小时, 再置放正常环境中 30 分钟后进行测试 -40+2°C for 96hours, after keep in normal condition for 30mim the to test</p>	
4	低温测试 COLD TEST	<p>以 1.10mm 和振幅和 33.30Hz/sec 振动频率以 X 轴方向振动 120 分钟, Y 轴方向振动 120 分钟, Z 轴方向振动 240 分钟.</p>	

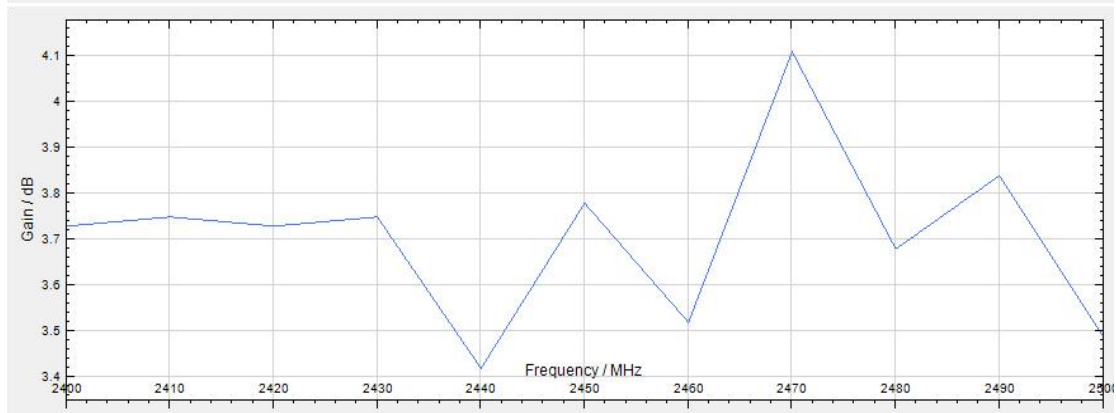
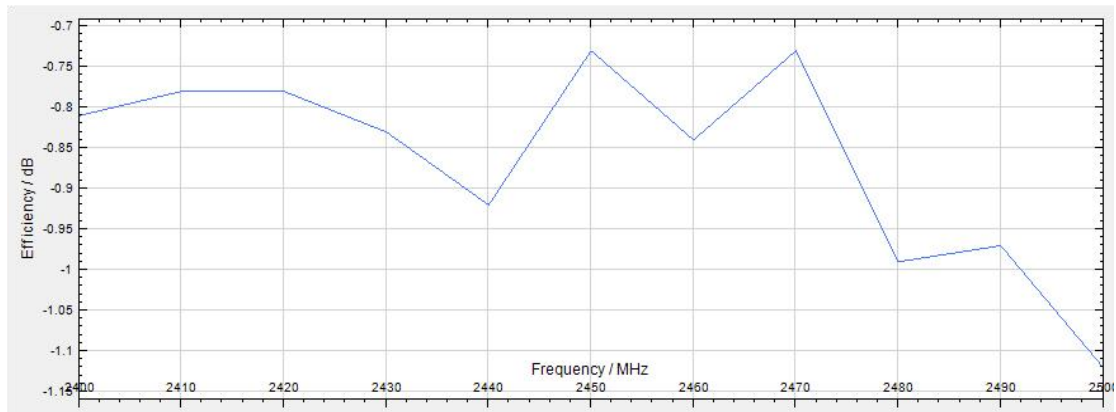
S 参数测试



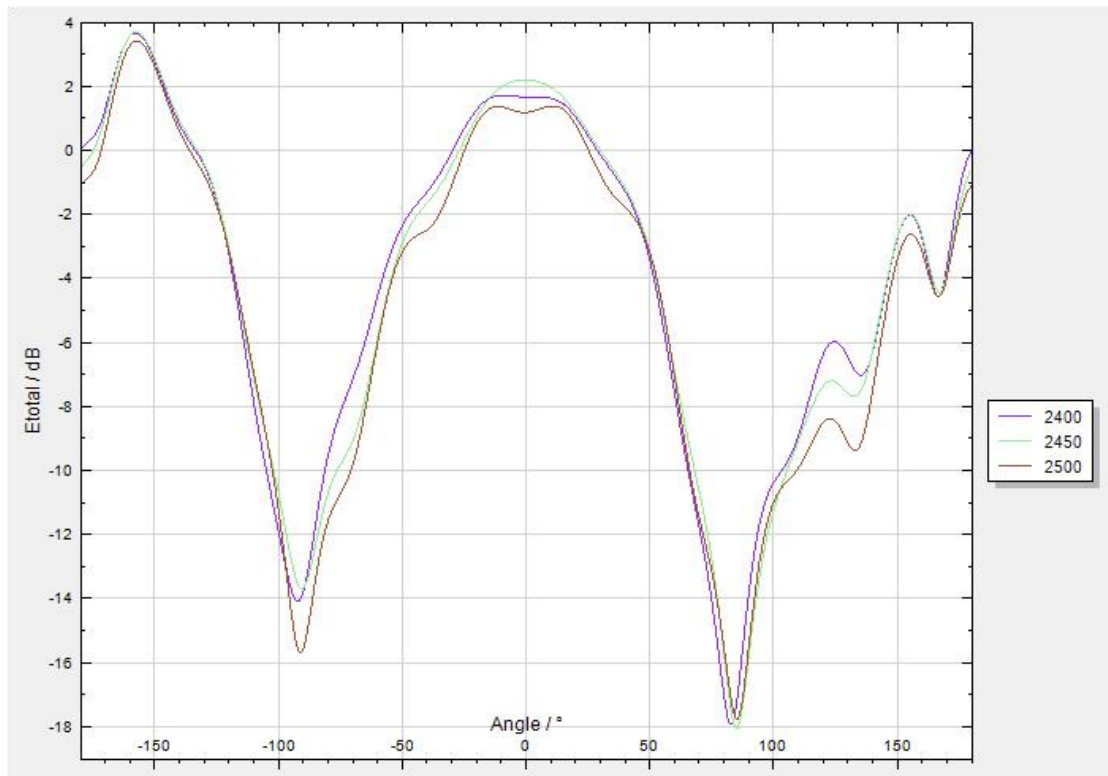
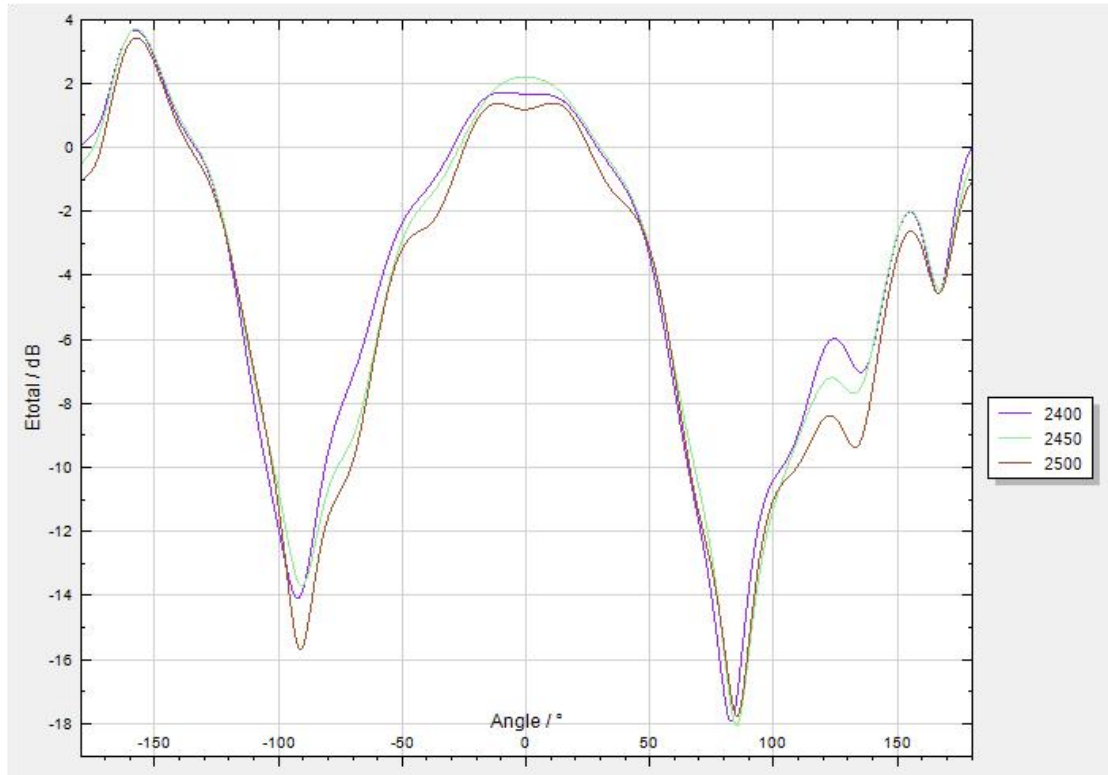
暗室测试

Antenna Passive Test

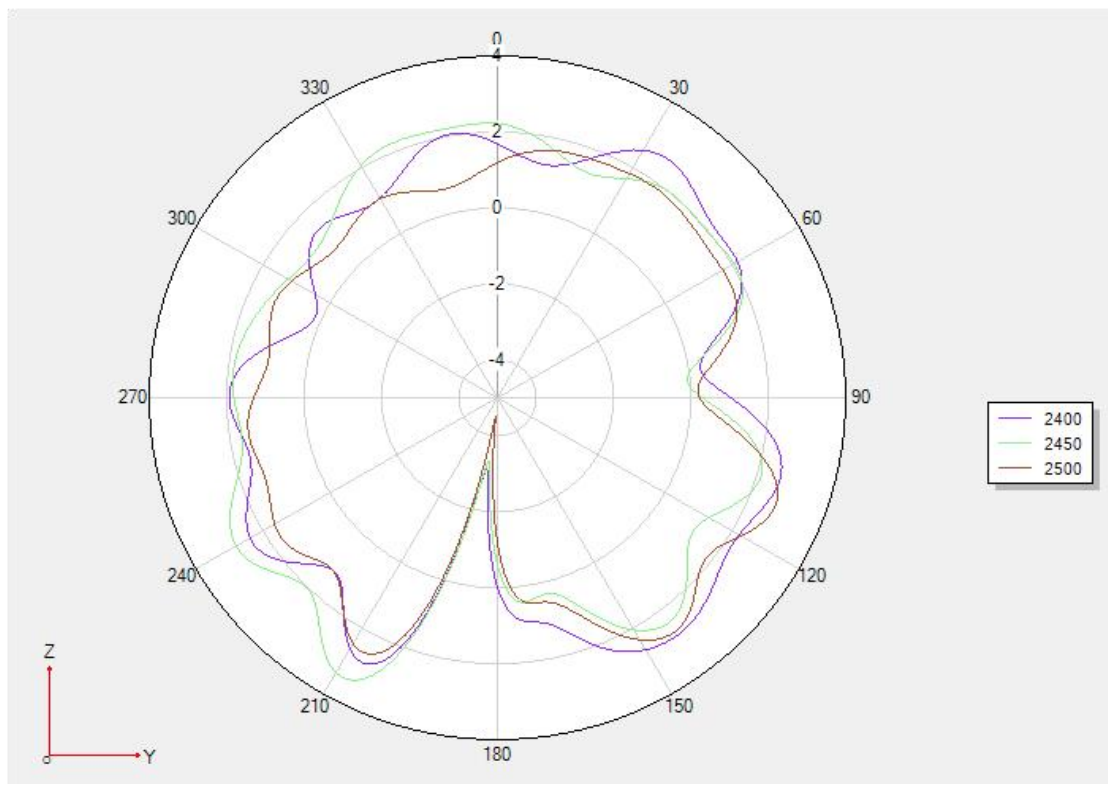
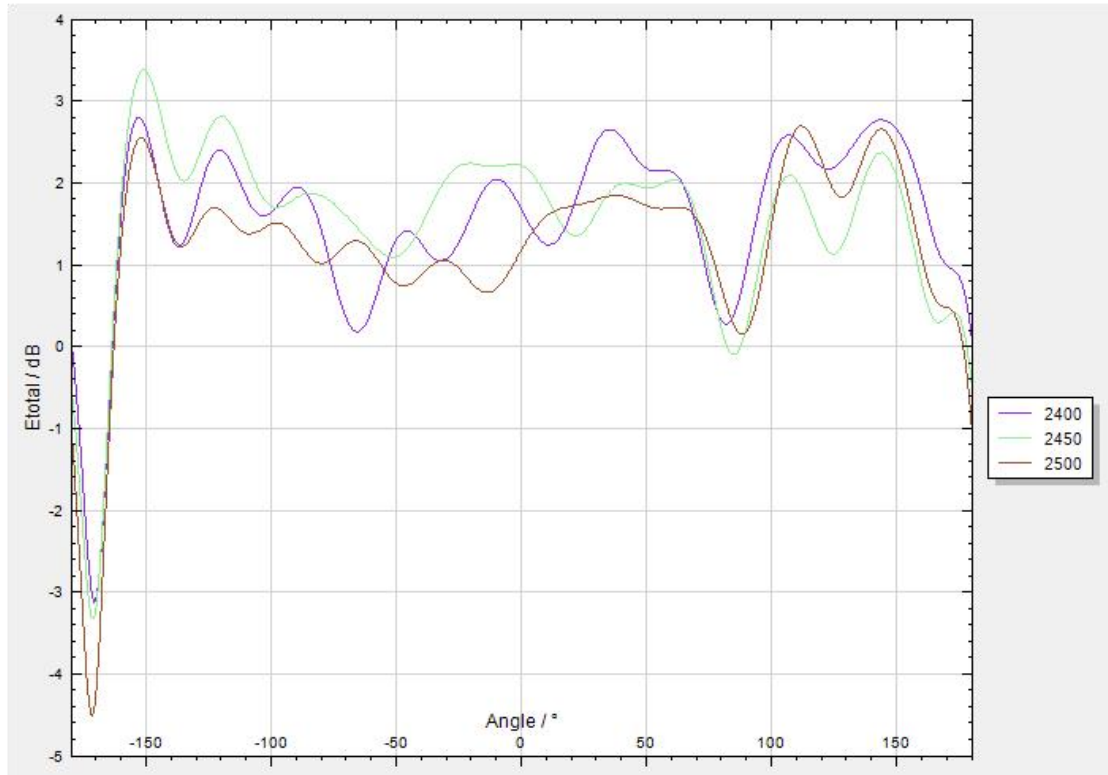
Efficiency			Gain	
Frequency / MHz	Efficiency / dB	Efficiency / %	Frequency / MHz	Gain/ dB
2400	-0.81	82.99	2400	3.73
2410	-0.78	83.56	2410	3.75
2420	-0.78	83.56	2420	3.73
2430	-0.83	82.6	2430	3.75
2440	-0.92	80.91	2440	3.42
2450	-0.73	84.53	2450	3.78
2460	-0.84	82.41	2460	3.52
2470	-0.73	84.53	2470	4.11
2480	-0.99	79.62	2480	3.68
2490	-0.97	79.98	2490	3.84
2500	-1.12	77.27	2500	3.49



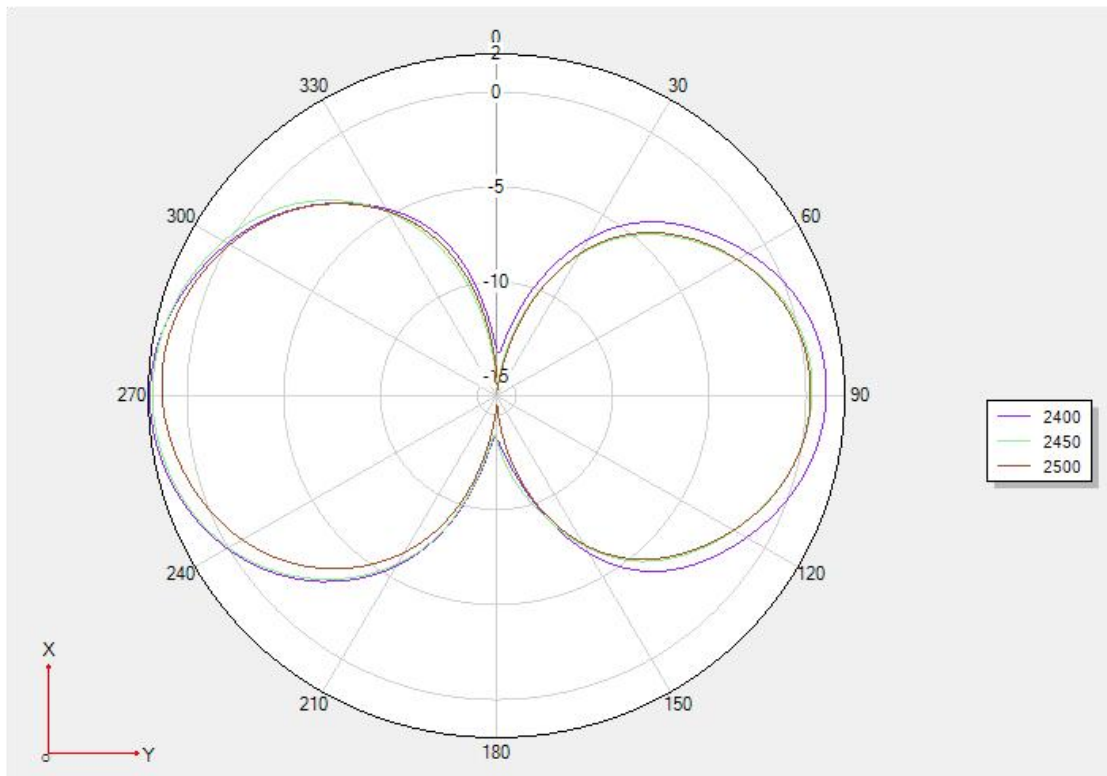
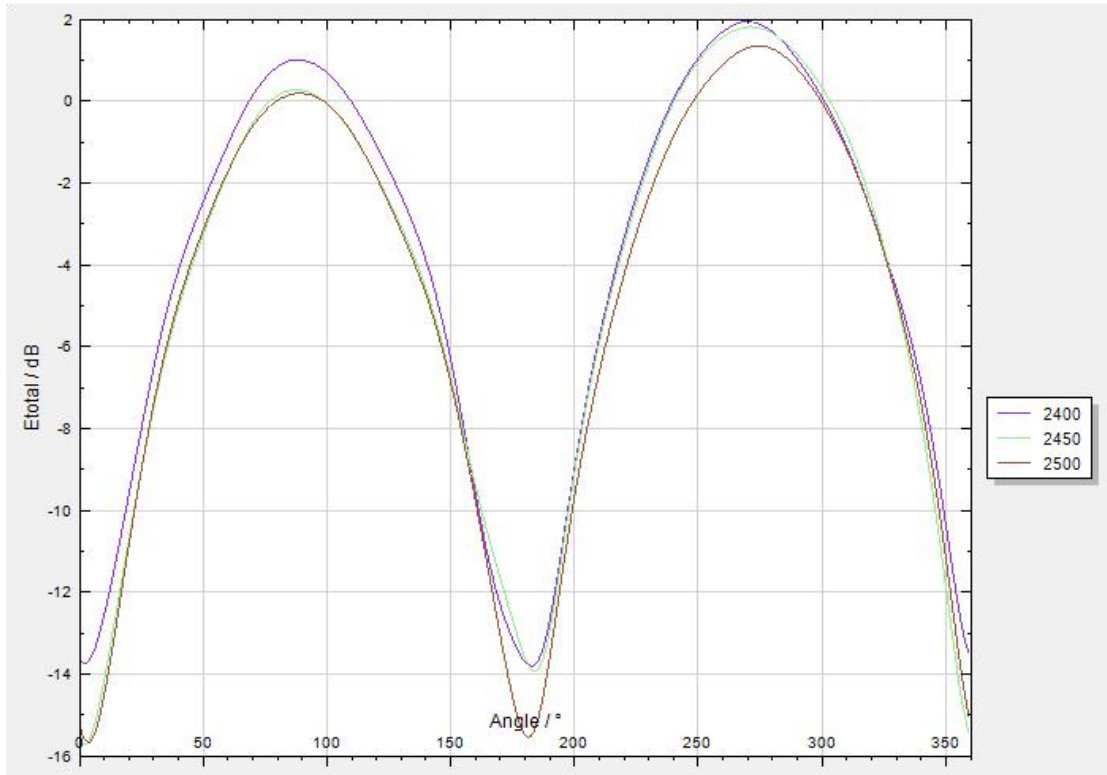
Phi0 2D



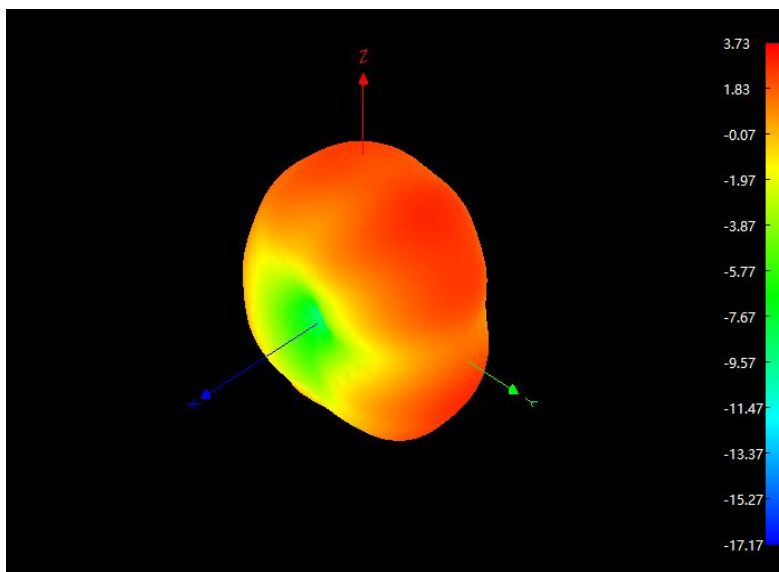
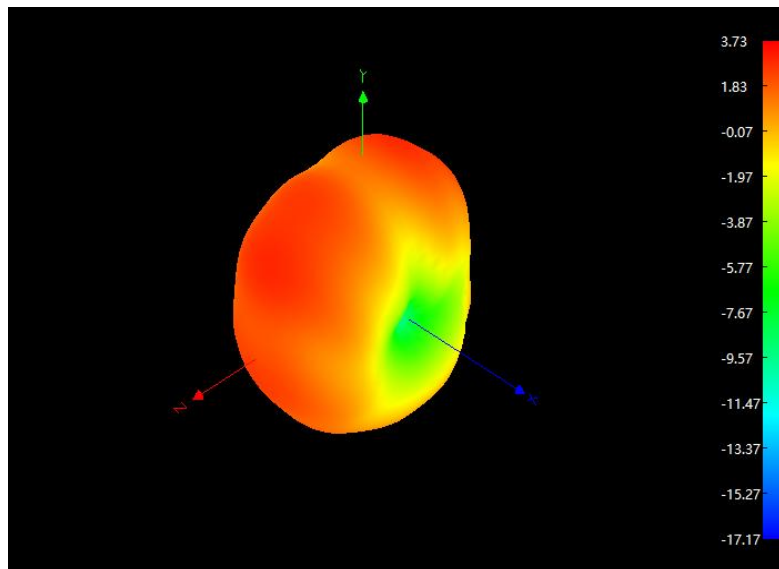
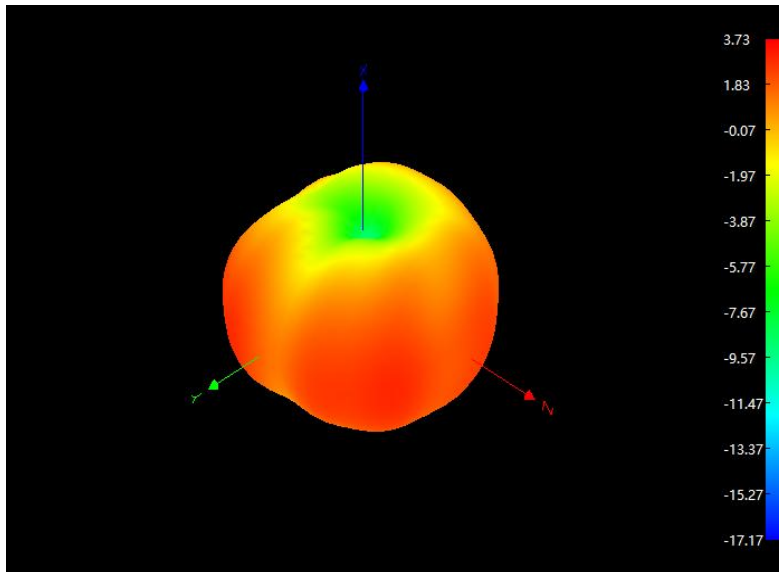
Phi 90 2D



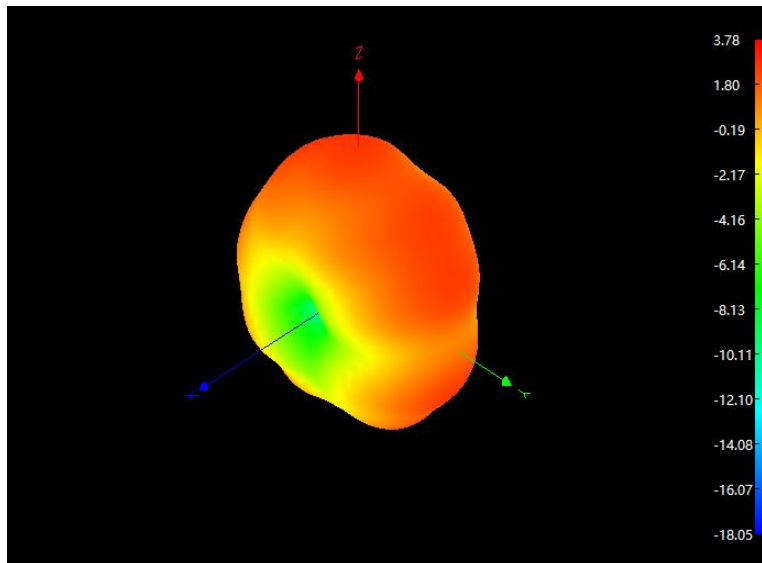
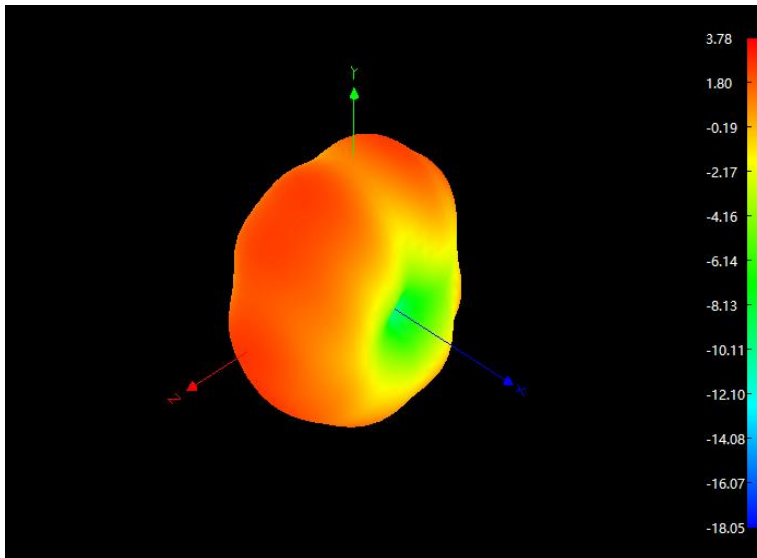
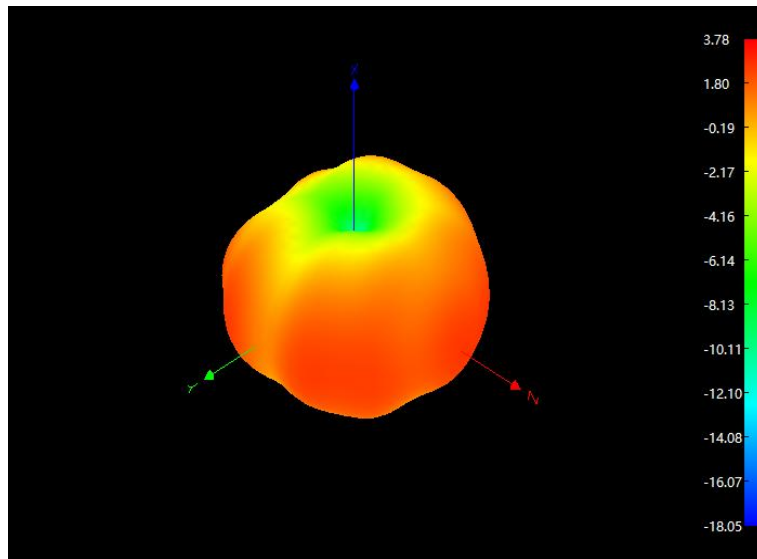
Theta 90 2D



3D 辐射图 @2400MHz



3D 辐射图 @2450MHz



3D 辐射图 @2500MHz

