

承认书

SPECIFICATION APPROVAL SHEET

客 户 :
CUSTOMER _____

客 户 料 号 : 版 次 :
CUS PART NO _____ REV X1

品 名 / 规 格 : 2.4~2.5/5.15~5.85GHz 单 重 :
SPECIFICATION WIFI +BT Antenna L=315mm(Ø1.13+MHF) weight _____

供 方 料 号 :
SUP PART NO SLEingB225780315

日 期 :
DATE 2022.03.29



厂 商 核 准 :
SUP APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED
<i>Joyce</i> 2022.03.29	<i>HZH</i>	<i>王 Q</i>	<i>w xy</i>

客 户 核 准 :
CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司
DONGGUAN CITY SLEing INTEL-TECH CO., LTD

中国广东省东莞市松山湖工业东路24号现代企业加速器6栋402
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正本由承办单位保存



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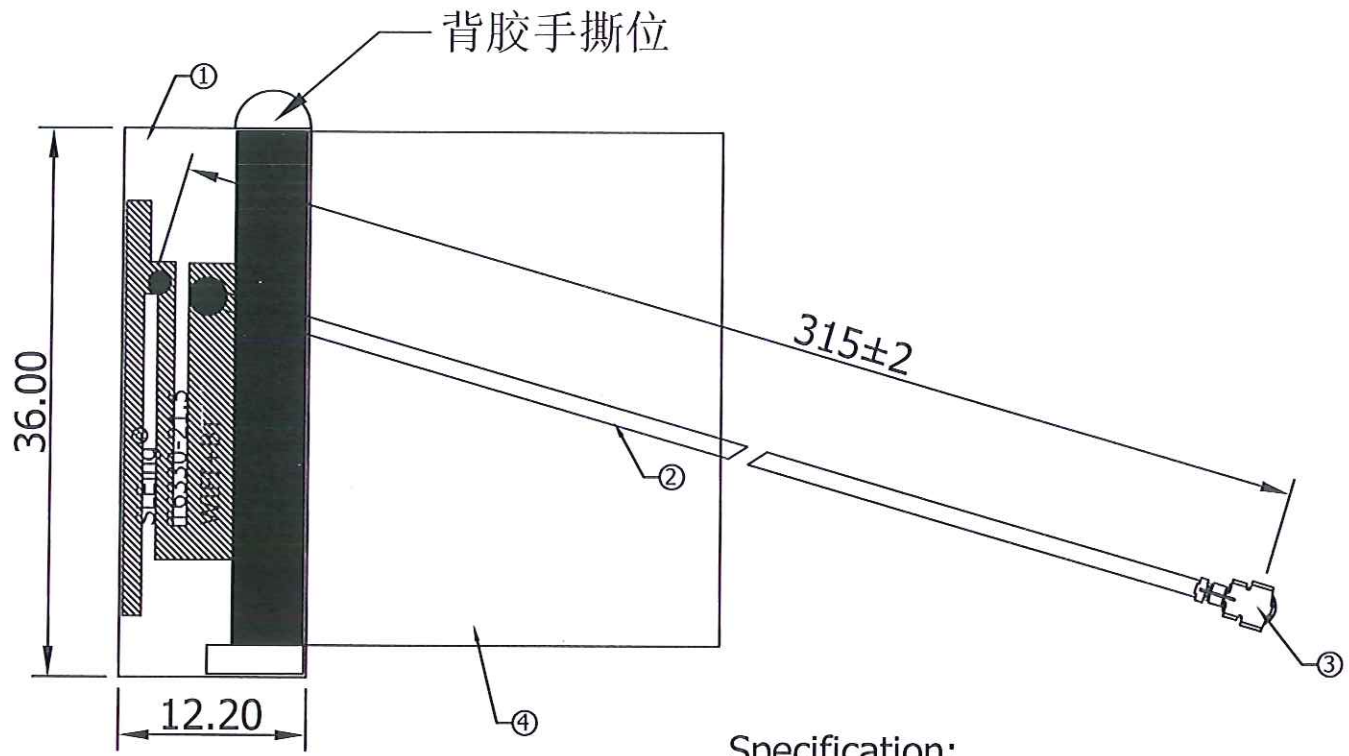
承认书项目表

序号	项目	附件资料		备注
		有	无	
1	承认书封面 (Spec Cover)	<input type="checkbox"/>	<input type="checkbox"/>	1. 封面需注明产品料号、品名规格 2. 经主管核准后加盖公司印章
	客户满意度 (Customer satisfaction)	<input type="checkbox"/>	<input type="checkbox"/>	请客户对我司给予真诚的评价
2	承认书项目表 (Spec Item)	<input type="checkbox"/>	<input type="checkbox"/>	
3	工程成品图 (Drawing)	<input type="checkbox"/>	<input type="checkbox"/>	
4	电性测试报告 (Test Reports)	<input type="checkbox"/>	<input type="checkbox"/>	
5	S参数测试 (S Parameter)	<input type="checkbox"/>	<input type="checkbox"/>	与产品一致
6	方向图(Patten)/测试效率 (Test Efficiency)	<input type="checkbox"/>	<input type="checkbox"/>	与产品一致
7	样品检验记录 (Sample inspection)	<input type="checkbox"/>	<input type="checkbox"/>	
8	SGS报告 (SGS Report)	<input type="checkbox"/>	<input type="checkbox"/>	1. 需依产品材质类别及颜色分别提供 2. 报告有效期为一年
9	其它	<input type="checkbox"/>	<input type="checkbox"/>	依贵司具体要求另行说明
10		<input type="checkbox"/>	<input type="checkbox"/>	
11		<input type="checkbox"/>	<input type="checkbox"/>	

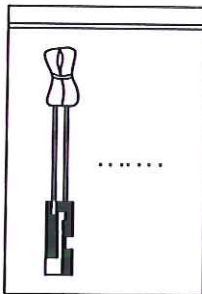
说明:

1. 承认书内容需依查核表项目依顺序排列。
2. 承认书依客户要求打印份数，SGS报告需加盖工程章。
3. 所有材料一律经过客户确认后，任何材料/制程/可能影响产品品质及环境品质的变更，都必需重新送样给客户确认后导入。
4. SGS报告有效期为一年。
5. 依实际承认书所附件内容在查核表中勾选：“有”为已提供，“无”根据客户要求提供。

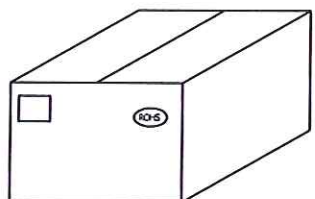
REV.	CONTENT	DATE
X1	First Sample	2022.03.29



Specification:
 Frequency Rang: 2.4~2.5/5.15~5.85GHz(带机测试)
 Return Loss: -10dB or less
 VSWR: 1.92 Max



50pcs/Bundle
Packing: 100pcs/bag

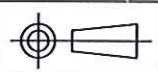


外箱须贴ROHS标签与物料标签各1PCS



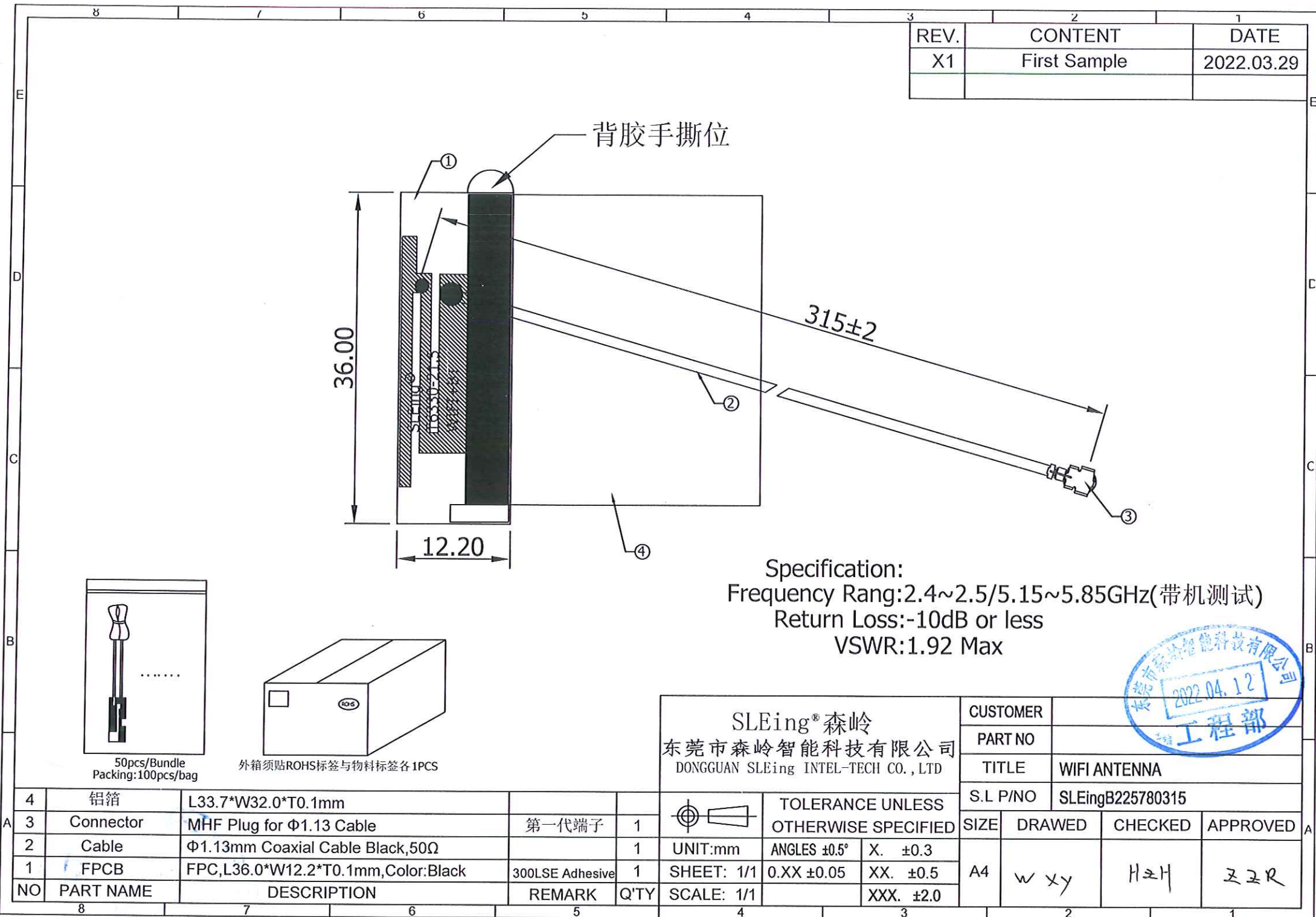
SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO., LTD		CUSTOMER		
		PART NO		
		TITLE		WIFI ANTENNA
		S.L P/NO		SLEingB225780315
SIZE	DRAWN	CHECKED	APPROVED	
A4	w xy	HZH	ZJR	

4	铝箔	L33.7*W32.0*T0.1mm		
3	Connector	MHF Plug for Φ1.13 Cable	第一代端子	1
2	Cable	Φ1.13mm Coaxial Cable Black, 50Ω		1
1	FPCB	FPC, L36.0*W12.2*T0.1mm, Color: Black	300LSE Adhesive	1
NO	PART NAME	DESCRIPTION	REMARK	Q'TY



TOLERANCE UNLESS
OTHERWISE SPECIFIED

UNIT: mm
 ANGLES ±0.5°
 X. ±0.3
 SHEET: 1/1
 0.XX ±0.05
 XX. ±0.5
 SCALE: 1/1
 XXX. ±2.0

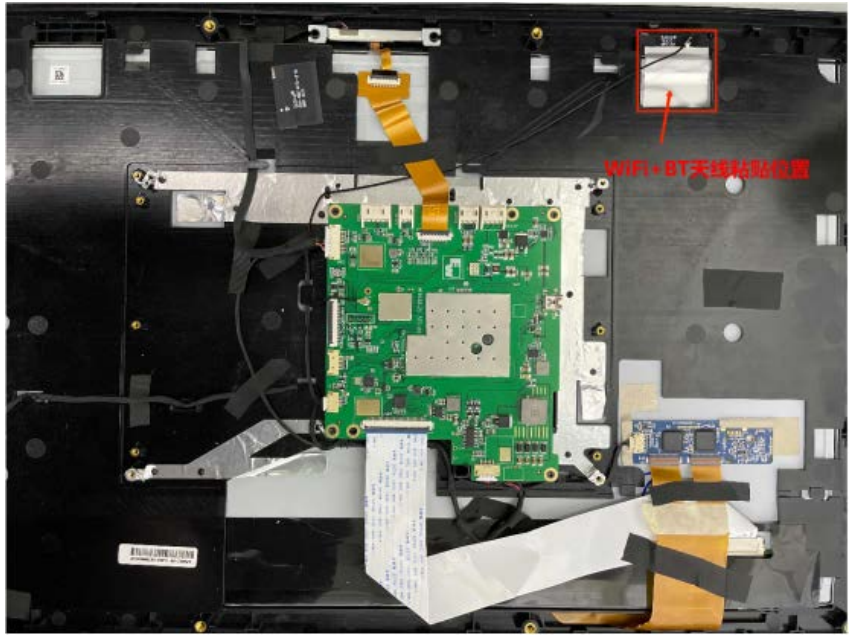
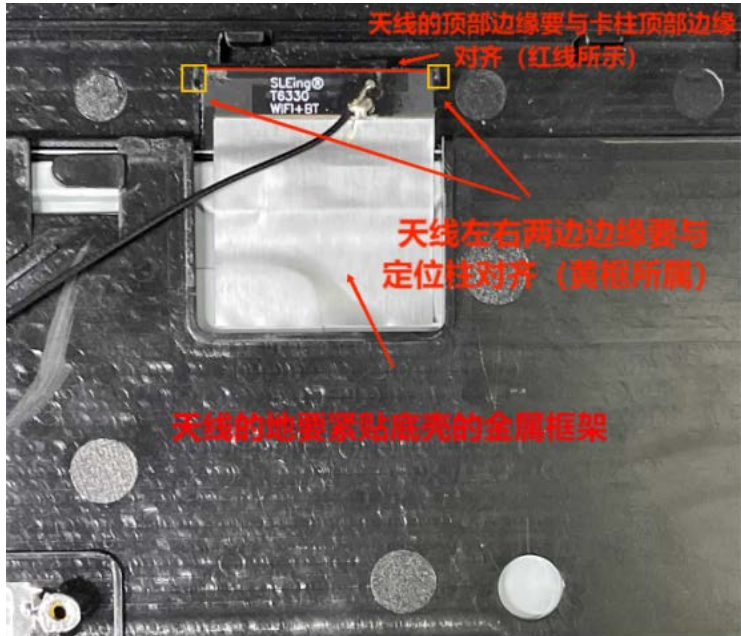


电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2±0.5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	Φ 1.13mm Black
Operating Temp.	-40~+85 °C
Storage Temp.	-40~+85 °C

天线组装图 Antenna Profile

<p><i>Device</i></p>	 <p>WiFi+BT天线粘贴位置</p>
<p><i>Antenna</i></p>	 <p>天线的顶部边缘要与卡柱顶部边缘对齐 (红线所示)</p> <p>天线左右两边边缘要与定位柱对齐 (黄框所属)</p> <p>天线的地要紧贴底壳的金属框架</p>

S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer

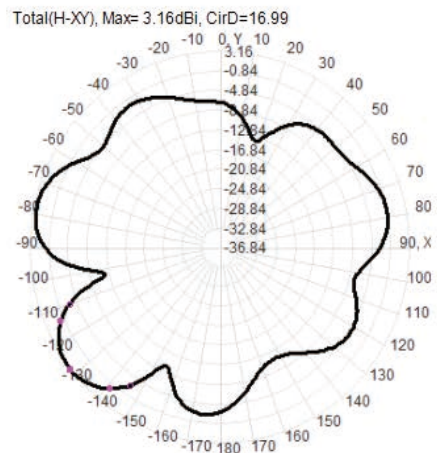
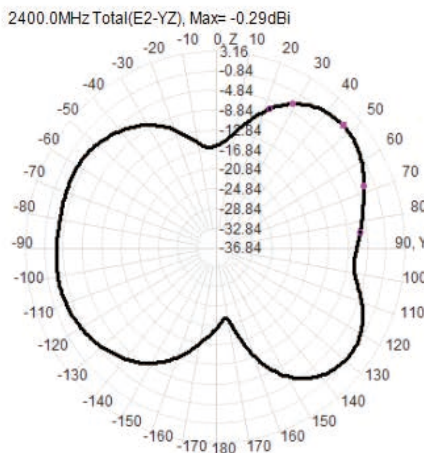
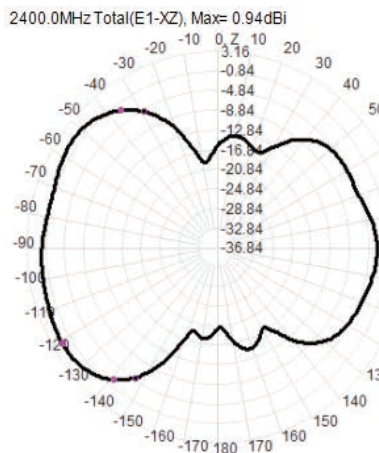


WiFi Antenna (NO.1)



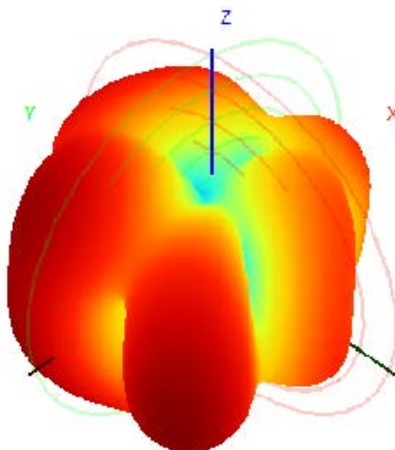
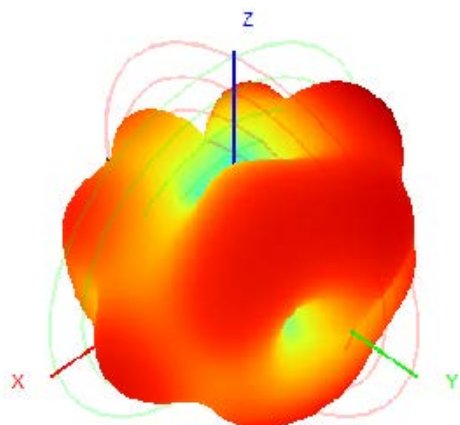
方向图 (2.4G) Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

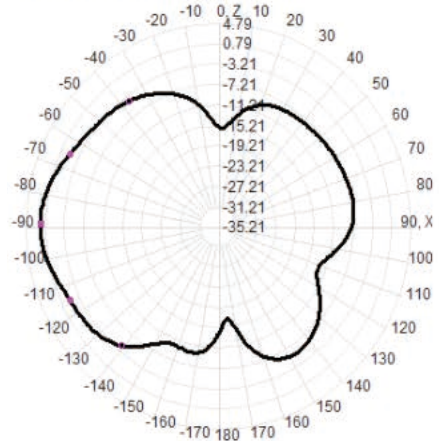
3D



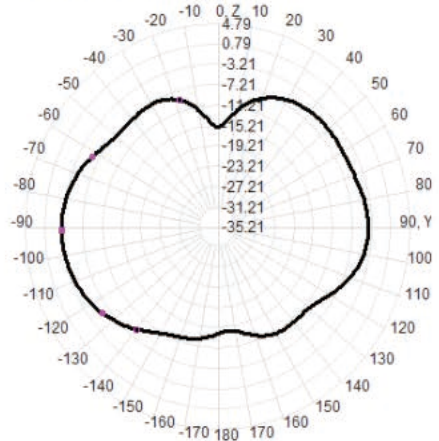
方向图 (5.8G) Patten

1.3 2D Radiation patterns test results (Passive Antenna)

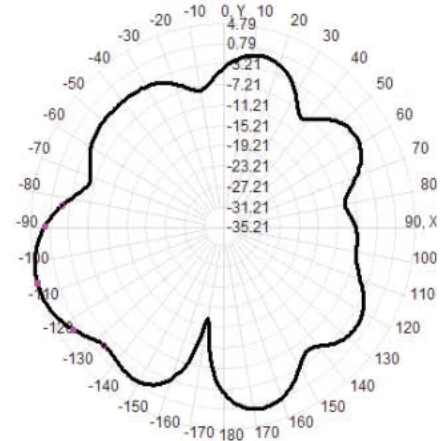
5150.0MHz Total(E1-XZ), Max= 1.79dBi



5150.0MHz Total(E2-YZ), Max= -2.79dBi

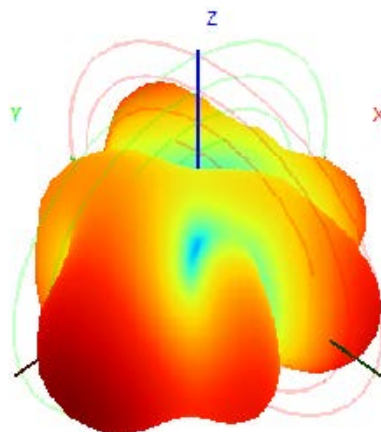
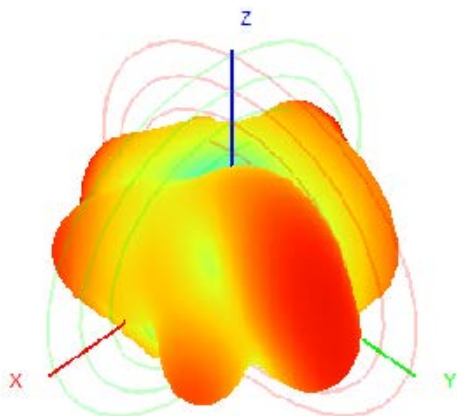


Total(H-XY), Max= 4.79dBi, CirD=21.97



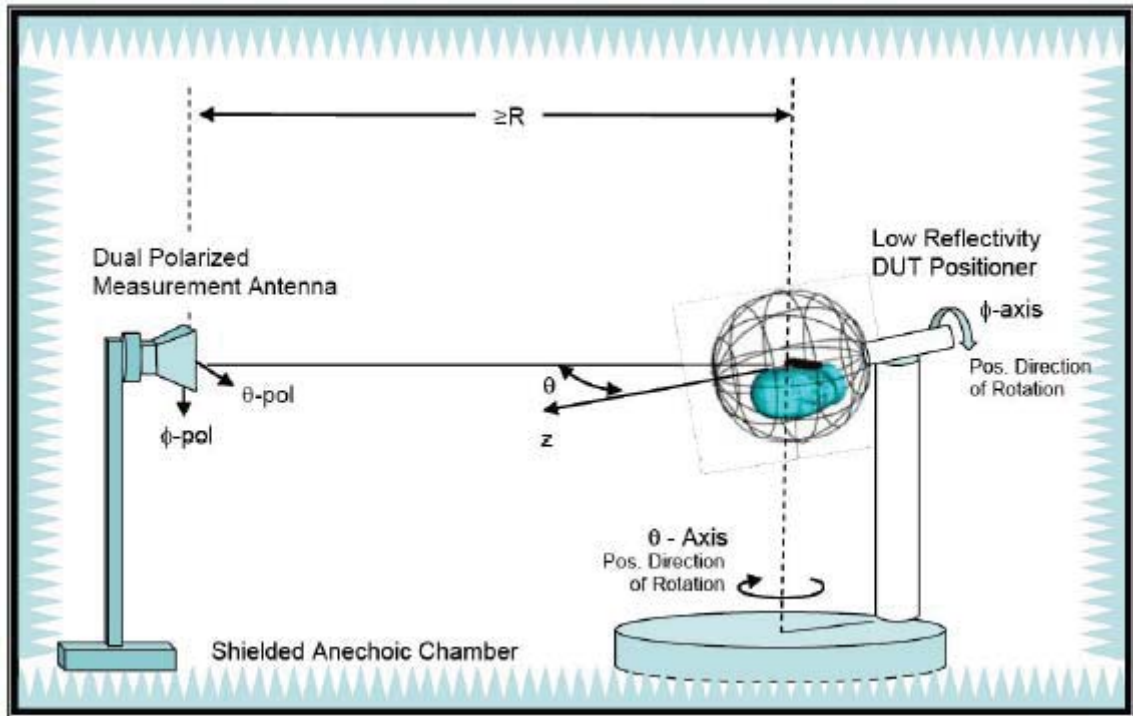
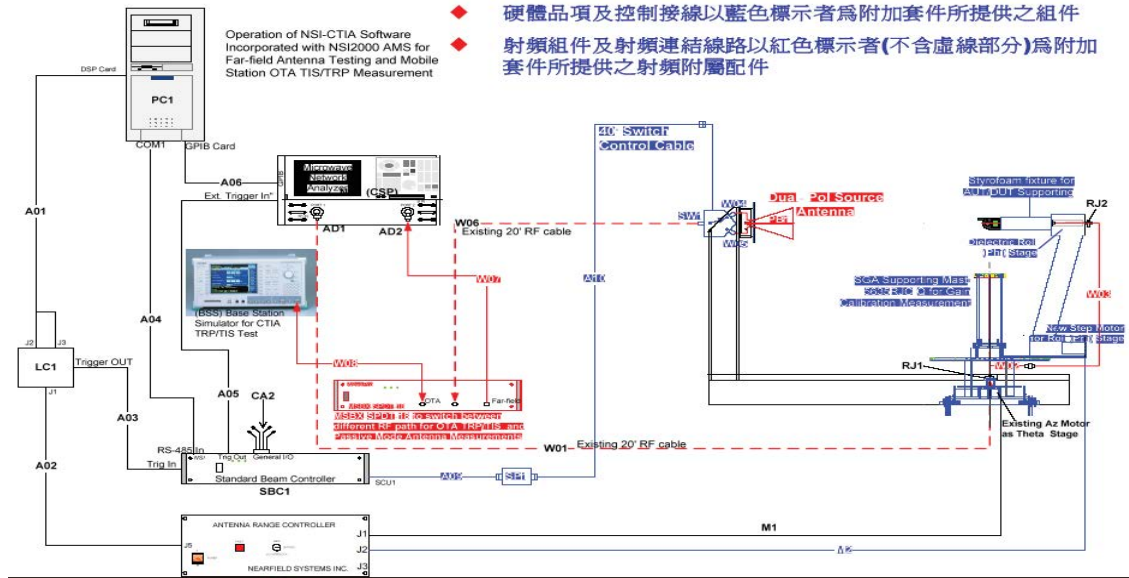
1.5 3D Radiation patterns test results (Passive Antenna)

3D



测试设备 Test Setup

NFC-500S 3D Chamber Coordinate System Definition



Configuration of 3D Chamber

测试效率 Test Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11				
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0				
Efficiency (dBi)	-3.61	-3.43	-3.31	-3.25	-3.15	-3.09	-2.95	-2.92	-2.81	-2.87	-2.97				
Gain (dBi)	2.16	2.12	1.74	1.89	1.94	1.91	2.07	2.00	1.89	1.84	1.78				
Efficiency (%)	46.51	47.36	48.64	49.26	49.44	49.15	50.72	51.09	52.31	51.69	50.48				
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
	-4.07	-3.81	-3.89	-4.11	-3.66	-3.60	-4.12	-3.85	-4.02	-3.96	-3.81	-3.66	-4.04	-4.37	-4.37
	1.79	2.09	1.94	1.43	1.67	2.12	1.59	1.59	2.16	2.15	2.00	2.13	1.90	2.13	2.15
	40.20	41.60	40.80	41.86	43.07	43.66	42.77	41.20	41.67	40.14	41.55	43.09	42.45	41.58	40.58

机型		T6330 WiFi吞吐量测试数据				
Band	测试距离 状态	加权	2.4G		5G	
			上传(Mbps)	下载(Mbps)	上传(Mbps)	下载(Mbps)
5米			49.90	53.50	79.00	95.40
			49.10	54.10	81.70	95.40
			50.00	52.40	78.90	96.20
		AVG	49.67	53.33	79.87	95.67
10米			46.70	51.40	74.40	91.20
			47.20	52.50	75.50	92.30
			45.10	50.90	75.50	90.20
		AVG	46.33	51.60	75.13	91.23
20米			37.60	39.80	64.00	79.70
			38.10	40.90	64.00	78.60
			36.60	40.90	62.10	80.50
		AVG	37.43	40.53	63.37	79.60

