

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV X1

品 名 / 规格 :

SPECIFICATION

RF Antenna(Black)

2.4~2.5/5.15~5.85GHz 5dBi(SMA)

单重:

weight

供 方 料 号 :

SUP PART NO

SLEingA100070196-F47

日 期 :

DATE

2020.05.25

厂 商 核 准 :

SUP APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED
<i>Peny per</i>	<i>TBx</i>	<i>ZQ</i>	<i>Xiaoy</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

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正本由承办单位保存

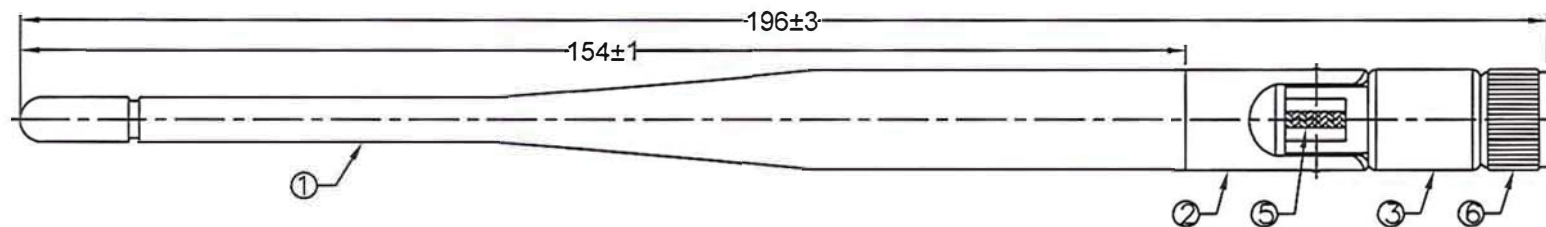
承认书项目表 (Spec Item)

序号 (NO.)	项目 (Item)	备注 (Remarks)	页码 (page number)
1	承认书封面 (Spec Cover)		1
2	承认书项目表 (Spec Item)		2
3	工程成品图 (Drawing)		3
4	电性测试报告 (Test Reports)		4
5	S参数测试 (S Parameter Test)		5
6	方向图 (Patten)		6-7
7	测试设备 (Test Setup)		8
8	测试效率 (Test Efficiency)		9

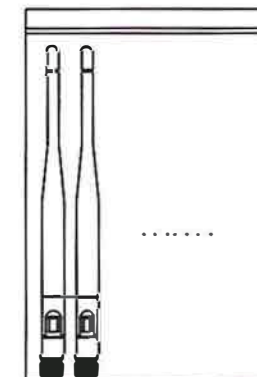
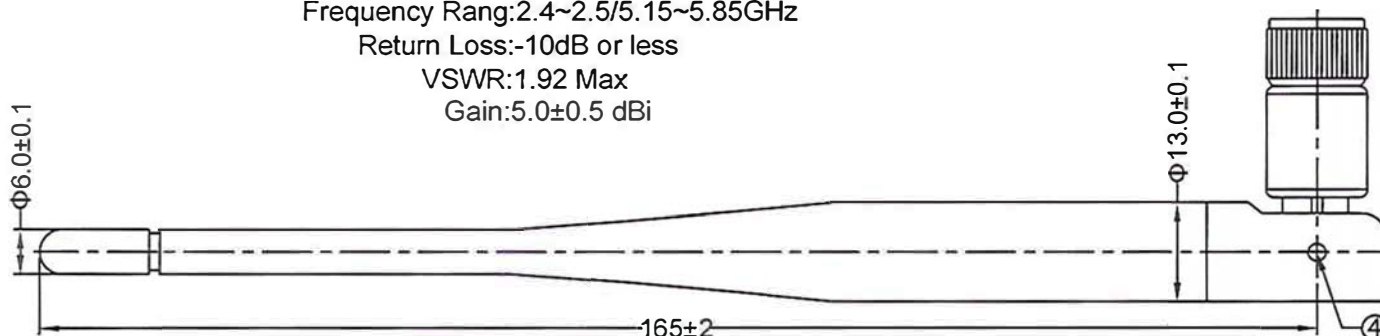
explain:

1. The contents of the letter of acknowledgment shall be arranged in order according to the items in the checklist.
2. The acknowledgement shall be printed according to the customer's requirements, and the SGS report shall be affixed with the engineering seal
3. After all materials have been confirmed by the customer, any material/process/change that may affect product quality and environmental quality must be renewed The samples can be imported only after being submitted to the customer for confirmation.
4. SGS report is valid for one year.
5. Check in the checklist according to the contents of the attachment to the actual letter of acknowledgment: "Yes" means provided, and "No" means provided according to the customer's requirements

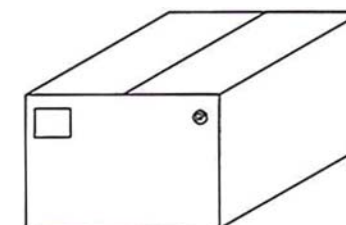
REV.	CONTENT	DATE
X1	First Sample	2020.05.25



Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHz
Return Loss:-10dB or less
VSWR:1.92 Max
Gain:5.0±0.5 dBi



Packing:50pcs/bag



外箱须贴GP标签与物料标签各1PCS

6	Connector	SMA Straight Plug(母针) for RG-178 Cable	塑胶外壳	1
5	Cable	RG-178,Transparency Brown,50Ω		1
4	Rivet	POM,Color:Black		1
3	Bottom Base	PBT,Color:Black		1
2	Upper Base	PC,Color:Black		1
1	Antenna Cap	TPE,Color:Black		1
NO	PART NAME	DESCRIPTION	REMARK	Q'TY

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



TOLERANCE UNLESS
OTHERWISE SPECIFIED

UNIT:mm

ANGLES ±0.5° X. ±0.3

SHEET: 1/1

.XX ±0.05 XX. ±0.5

SCALE: 1/1

XXX. ±2.0

CUSTOMER			
PART NO			
TITLE		RF ANTENNA ASSEMBLY	
S.L P/NO		SLEingA100070196-F47	
SIZE	DRAWN	CHECKED	APPROVED
A4	X. cmy	2020.05.25	2020.05.25



东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH

电性测试报告

Test Reports

电气性能(Electrical Properties)	
频率(Frequency)	2.4-2.5/5.15-5.85GHz
阻抗(Impedance)	50 Ohm Nomina
驻波(V.S.W.R)	≤ 1.92
回波损耗(Return Loss)	-10 dB Max
辐射(Radiation)	全向性(Omni-directional)
增益(Gain)	5.21 dBi
极化(Polarization)	线性(Linear),垂直(Vertical)
功率(Admitted Power)	2 W
物理性能(Physical Properties)	
工作温度(Operating Temp)	-20°C -75°C
存储温度(Storage Temp)	-20°C -75°C

S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer



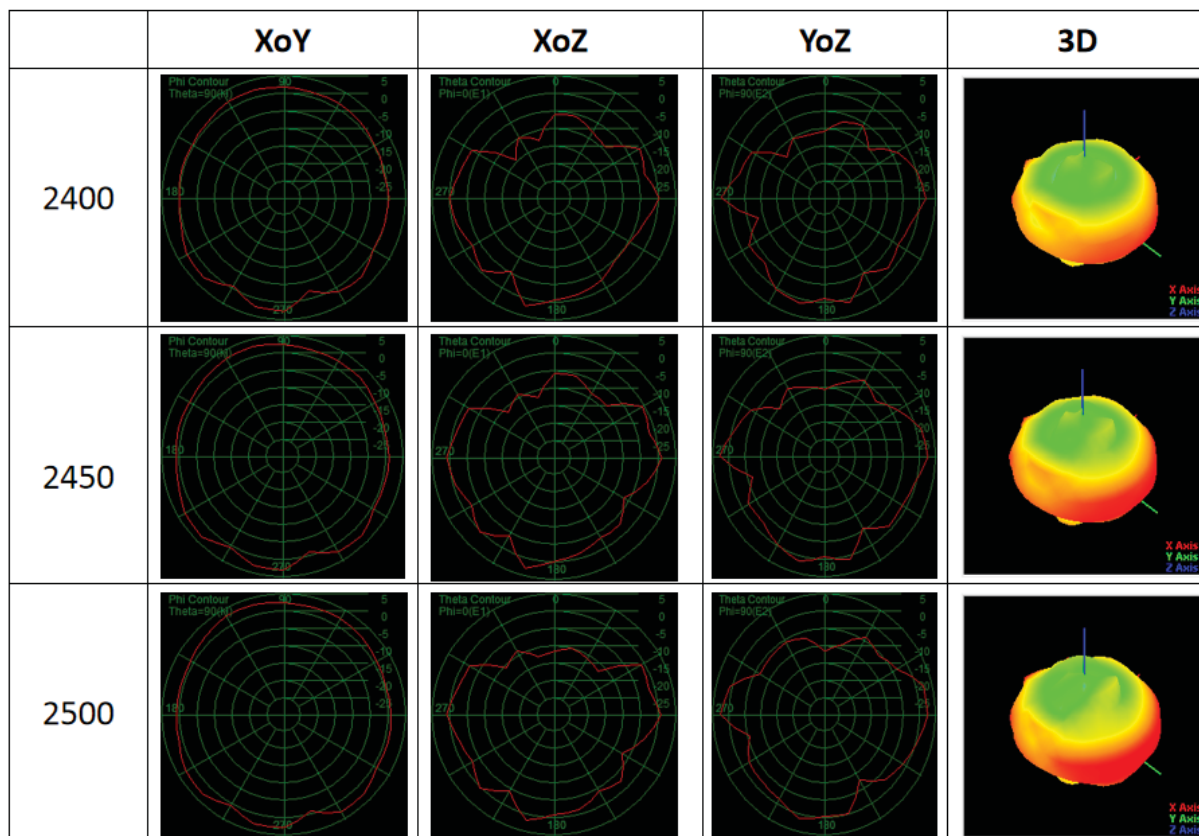
RF Antenna (NO.1)



方向图 (2.4G)

Patten

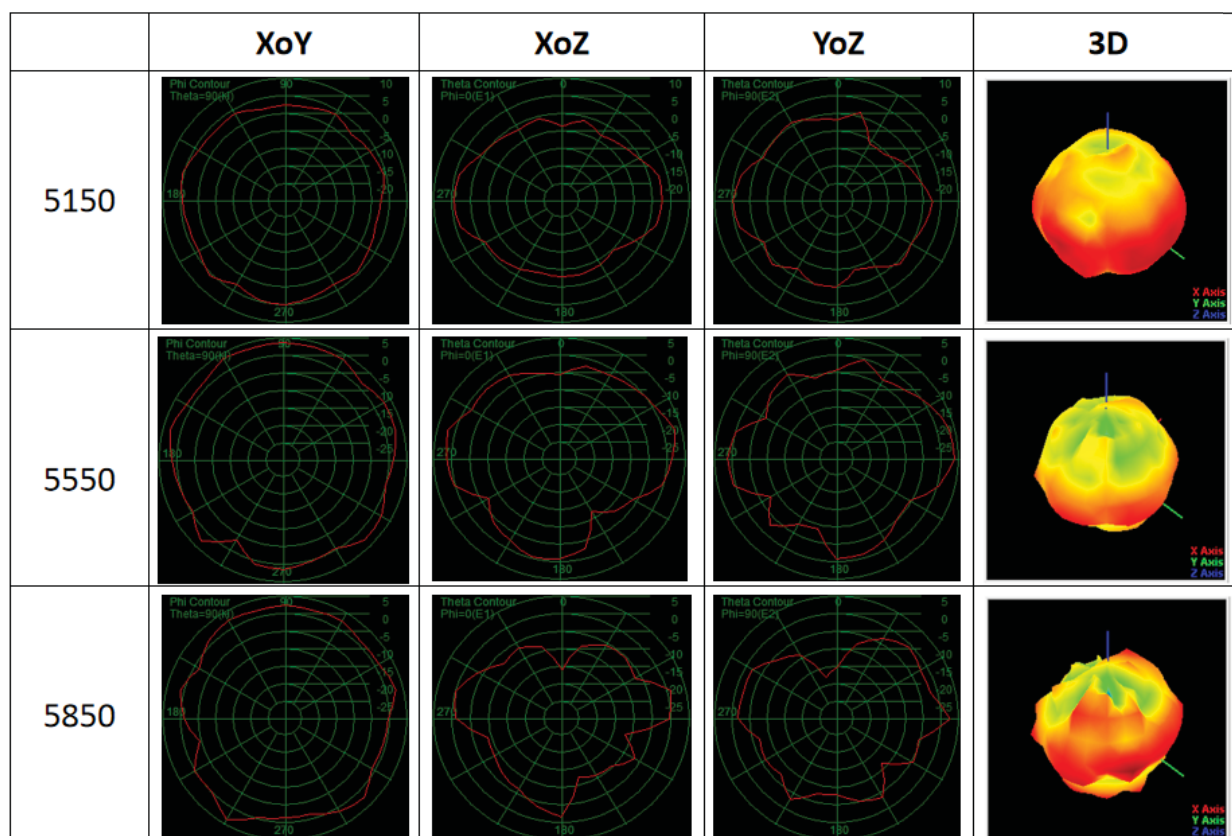
Gain & Patterns test results 3D patterns



方向图 (5.8G)

Patten

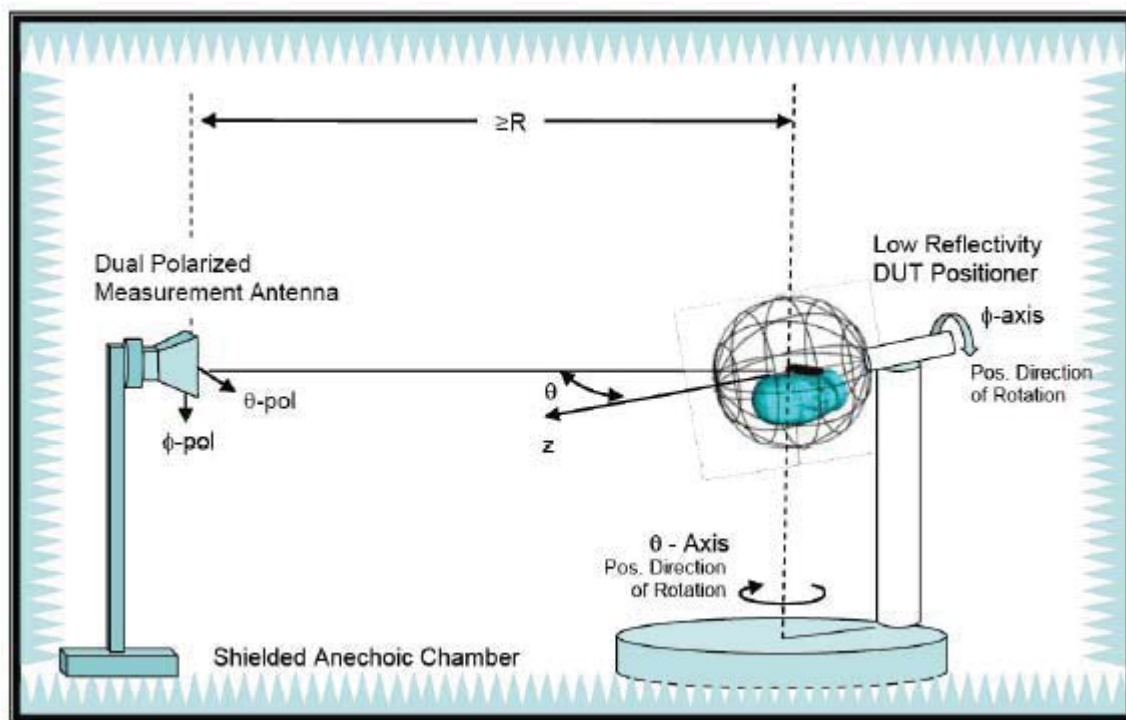
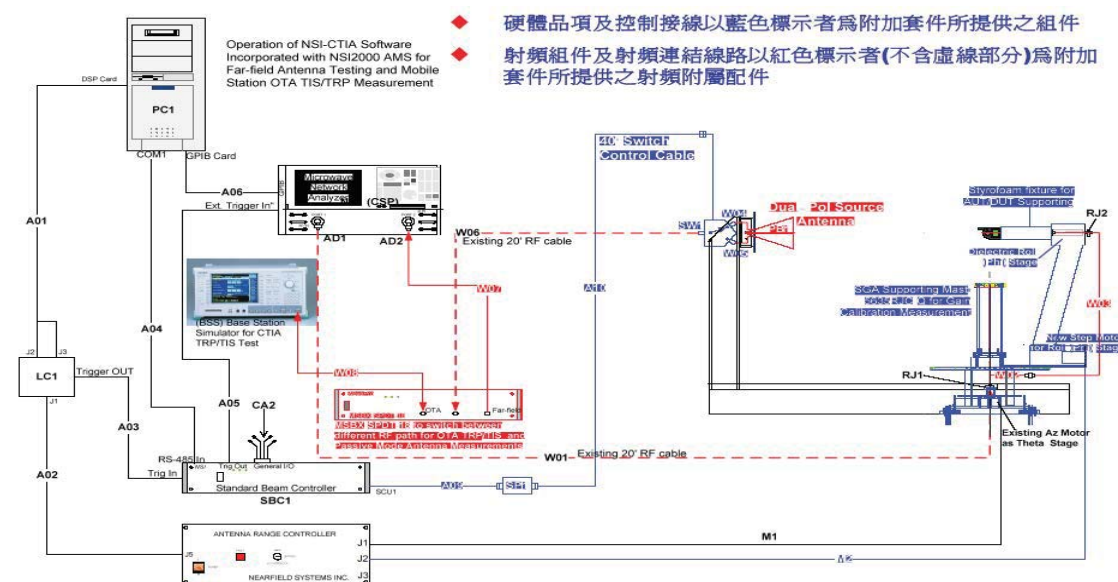
Gain & Patterns test results 3D patterns



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1.2 Test Setup



Configuration of 3D Chamber

测试效率

Test Efficiency

Test PontD	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	4.60	68.70%
2	2410.0	4.28	67.10%
3	2420.0	5.00	69.80%
4	2430.0	4.65	68.00%
5	2440.0	4.39	4.00%
6	2450.0	4.58	67.80%
7	2460.0	4.43	69.30%
8	2470.0	4.57	68.50%
9	2480.0	4.54	67.90%
10	2490.0	4.64	69.40%
11	2500.0	4.44	68.70%
12	5150.0	4.95	67.60%
13	5200.0	4.78	68.20%
14	5250.0	5.00	68.50%
15	5300.0	4.89	69.10%
16	5350.0	4.67	68.40%
17	5400.0	4.76	67.60%
18	5450.0	4.44	68.60%
19	5500.0	4.96	69.10%
20	5550.0	4.92	68.90%
21	5600.0	4.87	67.50%
22	5650.0	5.00	68.20%
23	5700.0	4.97	67.60%
24	5750.0	4.90	68.40%
25	5800.0	4.96	69.80%
26	5850.0	5.00	67.90%