

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

CUSTOMER NO: _____

RF Antenna(Black)
PART NAME: 860~930MHz 2dBi (SMA)

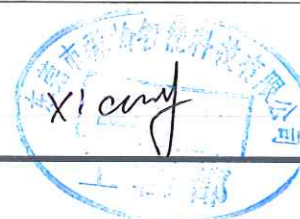
SUPPLIER NO: SLEingA100020108-F34

Date: 2022.11.09

Revision: X1

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

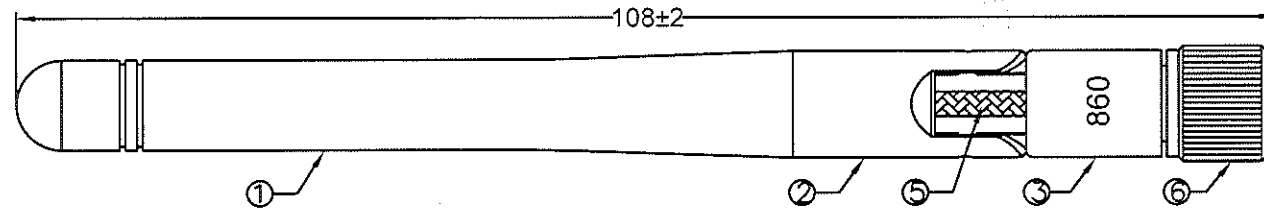
SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
<i>Jouyfan</i>	H24	<i>X1 cny</i>



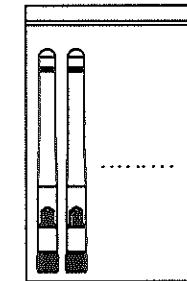
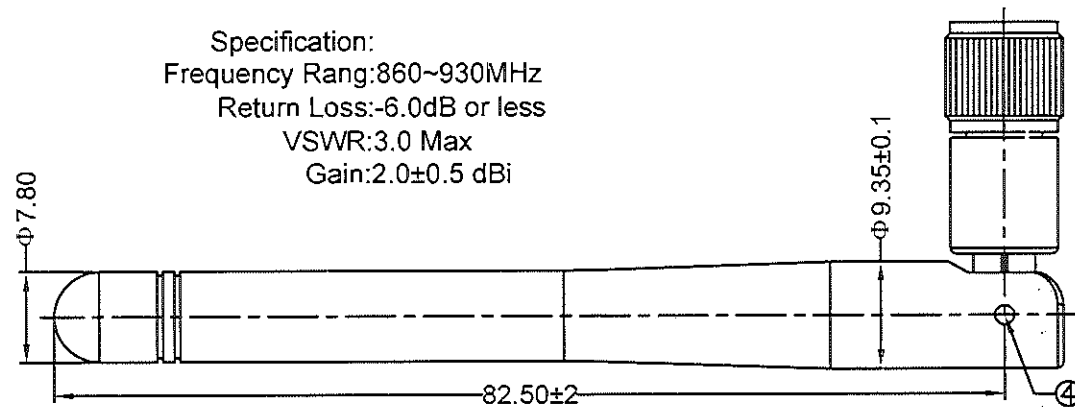
Project statement Spec Item

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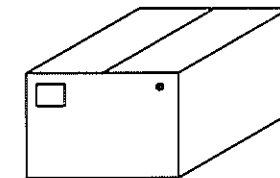
REV.	CONTENT	DATE
X1	Frist Sample	2022.11.09



Specification:
Frequency Rang:860~930MHz
Return Loss:-6.0dB or less
VSWR:3.0 Max
Gain:2.0±0.5 dBi



Packing:50pcs/bag

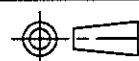


外箱须贴GP标签与物料标签各1PCS

6	Connector	SMA Straight Plug Standard		1
5	Cable	RG-178,Transparency Brown,50Ω		1
4	Rivet	POM,Color:Black		2
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®

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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	
S.H P/NO		SLEingA100020108-F34	
SIZE	DRAWN	CHECKED	APPROVED
A4	Xiaoyang	H3H	Jouyuan

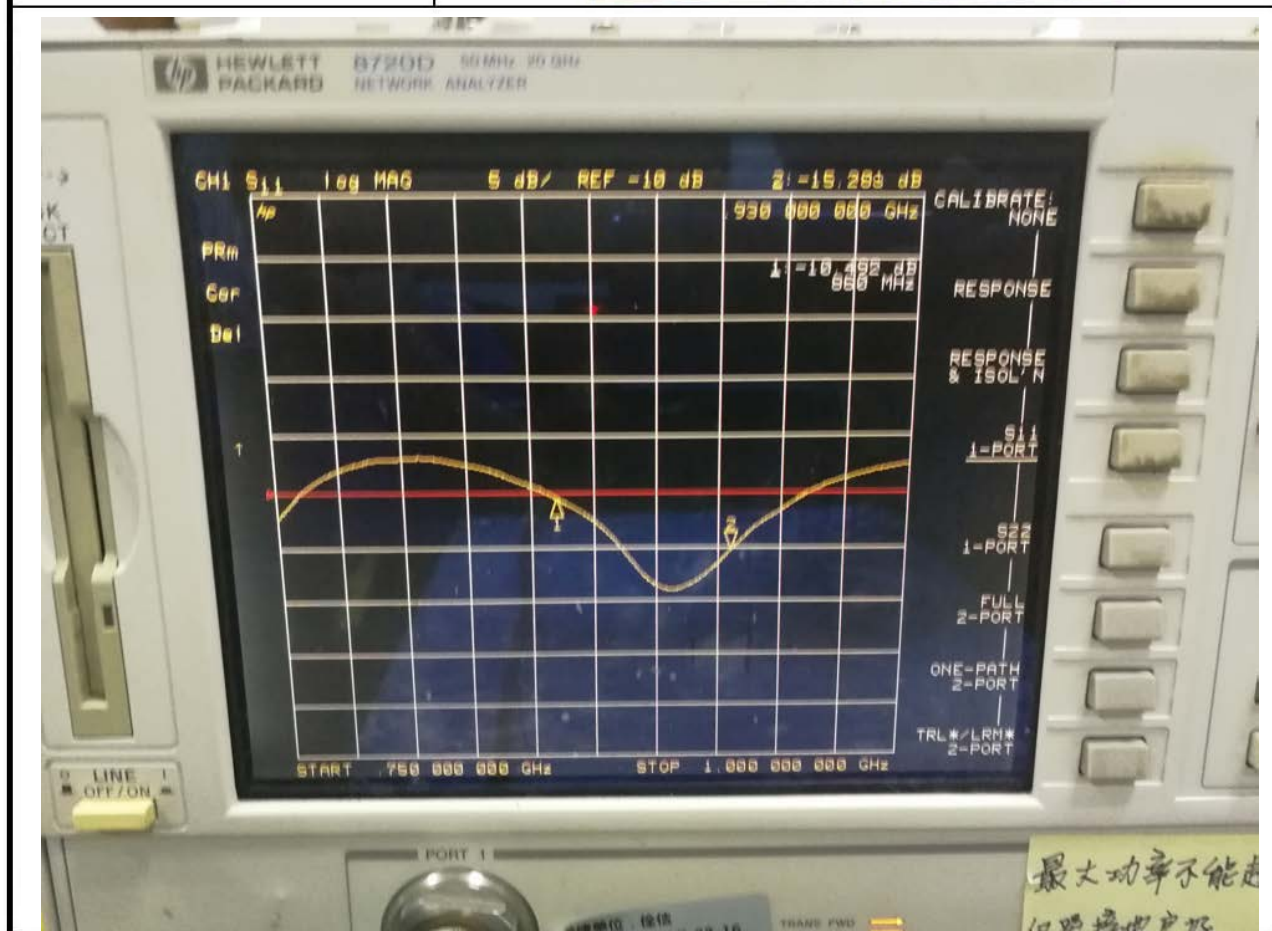
Test Reports

Electrical Properties	
Frequency	860~930MHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 3.0
Return Loss	-6 dB Max
Radiation	Omni-directional
Gain (Peak)	2±0.5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	SMA
Physical Properties	
Antenna Material	TPE/PC/POM
Antenna Color .	Black
Cable Type	RG-178
Operating Temp	-40 ~ +85 °C
Storage Temp	-40 ~ +85 °C

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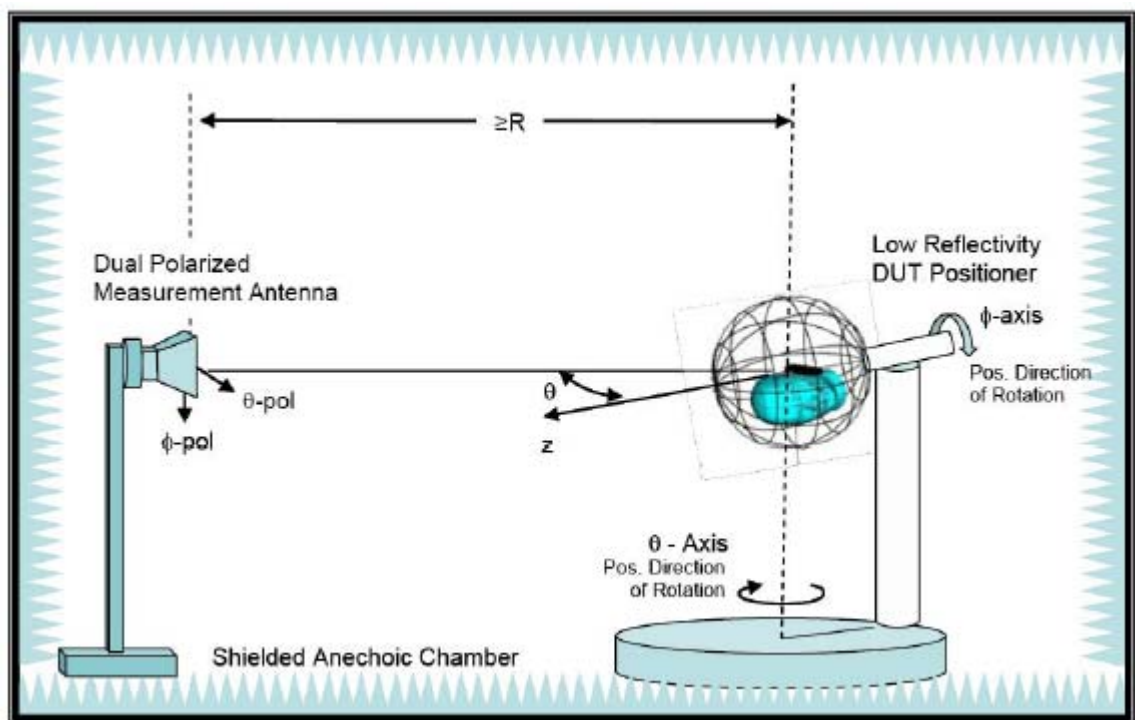
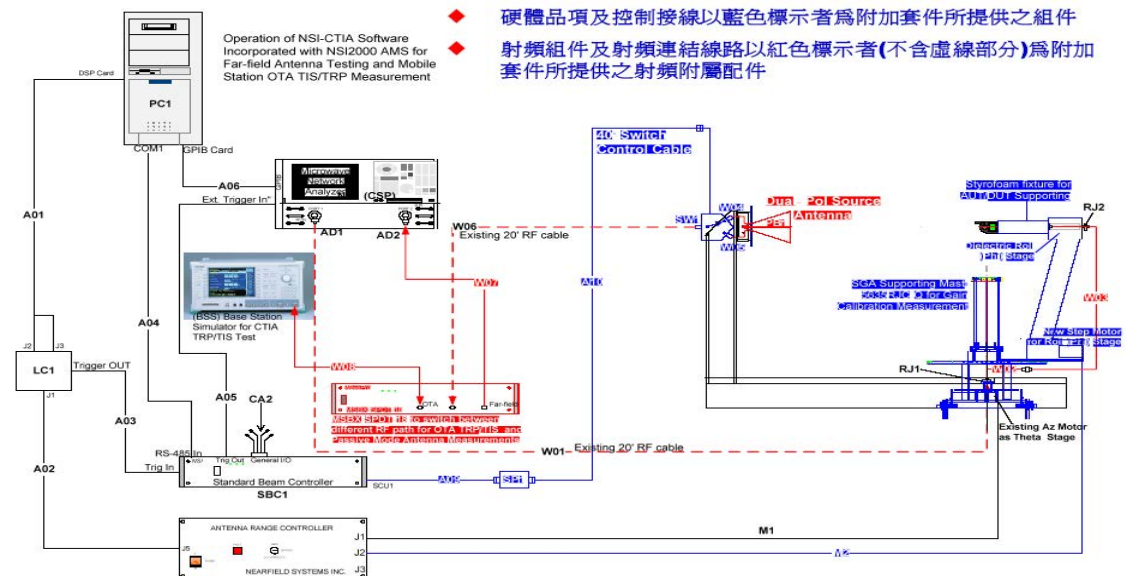
S Parameter Test

Agilent E5071C



Test Setup

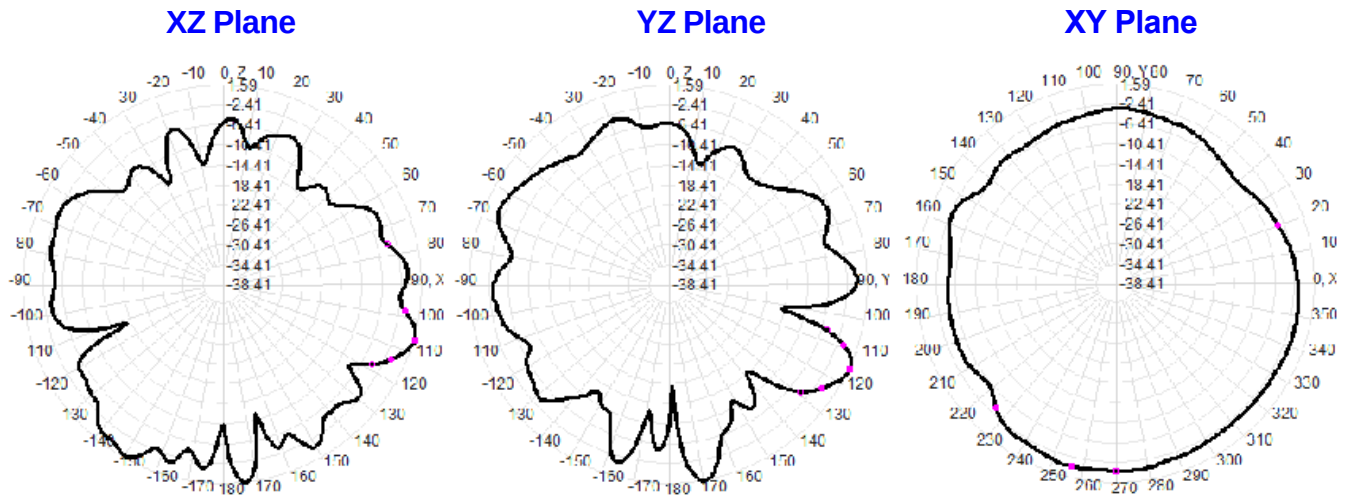
NFC-500S 3D Chamber Coordinate System Definition



Configuration of 3D Chamber

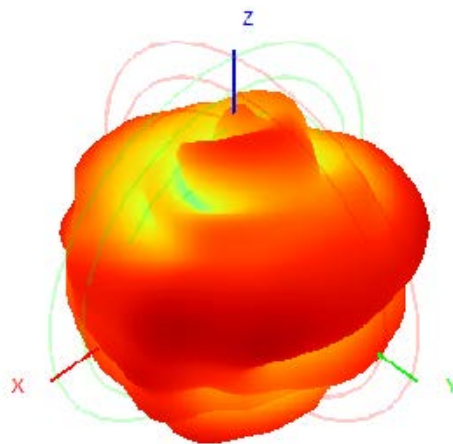
868MHz
Patten

1.3 2D Radiation patterns test results (Passive Antenna)



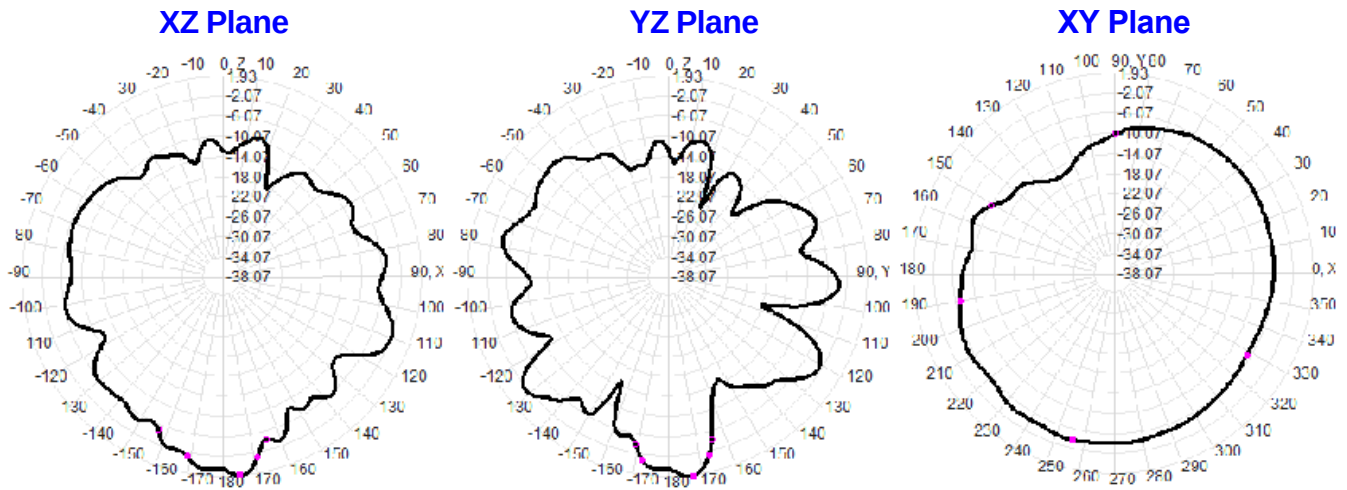
1.5 3D Radiation patterns test results (Passive Antenna)

3D



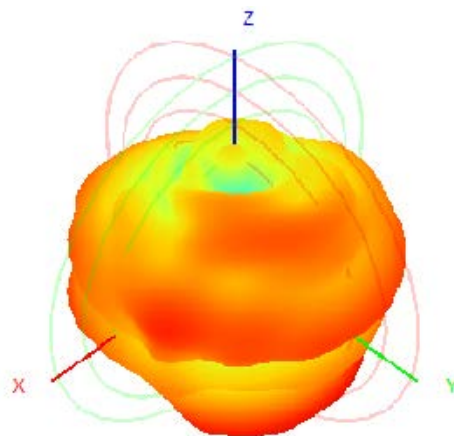
915MHz
Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D



测试效率
Test Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	860.0	865.0	870.0	875.0	880.0	885.0	890.0	895.0	900.0	905.0	910.0	915.0	920.0	925.0	930.0
Gain (dBi)	2.29	2.17	2.89	2.14	2.63	2.36	2.86	2.07	2.41	2.02	2.10	2.22	1.96	2.21	2.37
Efficiency (%)	49.17	44.43	44.44	45.41	48.98	48.75	48.91	45.30	49.55	45.70	40.26	40.68	40.43	45.30	49.87