



客户名称 Customer: gongjin

客户料号 Customer Material number: 8000000044721341

物料名称 Material name: Internal antenna

物料型号 Material type: 400621-22755-01

物料描述 Materialdescription: Internal Antenna,3dBi@2.4GHz&5GHz,50Ω,KB-6160,30*15*0.8mm,L=60mm,RF113,Gray,IPEX,Emp349d-R-I60(G)(Xinsheng),TW-researched

版 本 Edition: V0

供 应 商 承 认 he supplier acknowledge	
工 程 Engineering	批 准 Approval
袁裕深	叶晔
盖章签署 Signed	
日 期 Date	2022-11-14

供应商名称 Supplier name: 東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

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Revised History

[illegible]

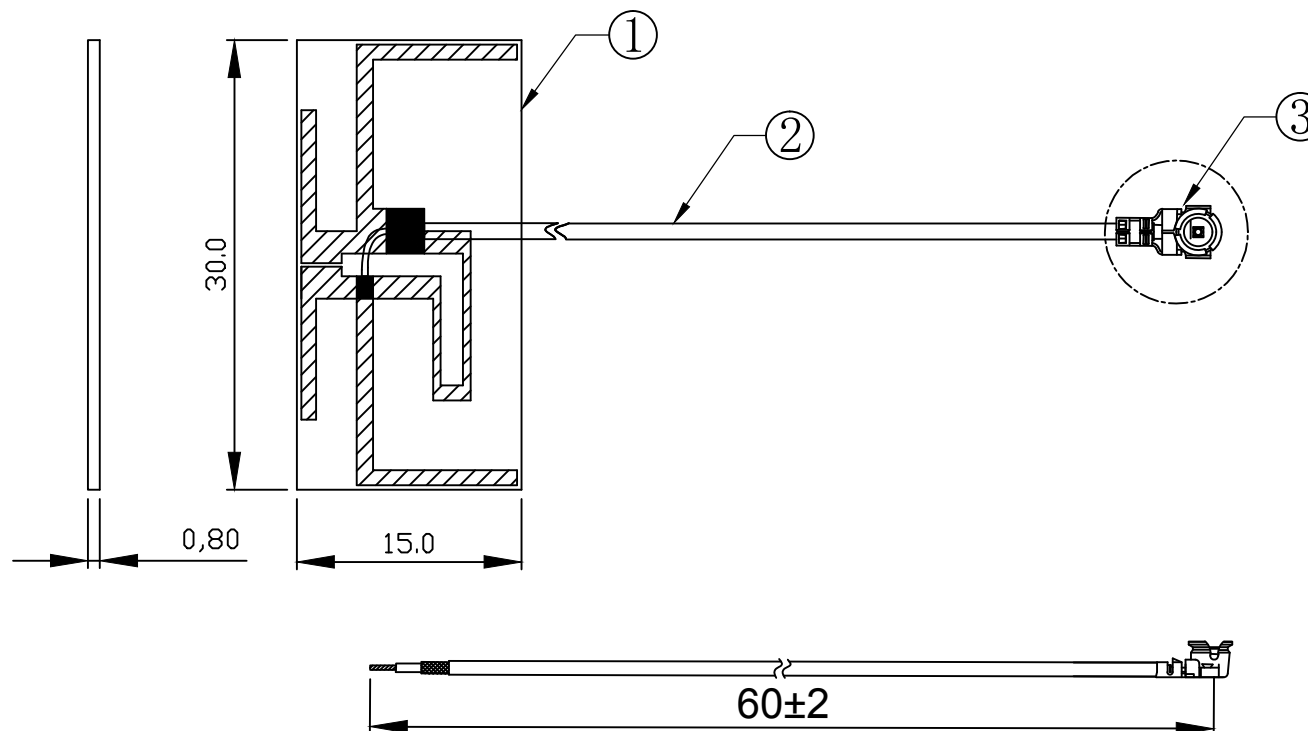


Specification

1. Antenna Electrical Properties:		
1.1	Frequency	2.4~2.5GHz/5.15~5.85GHz
1.2	Impedance	50 ohm Nominal
1.3	VSWR	1.92:1 Max
1.4	Return Loss	10 dB Min.
1.5	Polarization	Line
1.6	Gain	3dBi
2. Physical Properties:		
2.1	Operating Temperature	-30~+60°C
2.2	Storage Temperature	-30~+70°C
2.3	Humidity	≤95°C @ 25°C
2.4	Cable Length	60mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	IPEX

ROHS

REV	DATE	DESCRIPTION
A	2022-10-28	New Issue



铜箔加红油
馈线焊盘，露铜箔

Specification:
Frequency Range: 2.4~2.5GHz
& 5.15~5.85GHz.

Return Loss: -10dB or less
VSWR: 1.92 or less
Gain: 3.0dBi

NO	DESCRIPTION	QTY	REMARK
3	MHF IPEX	1	
2	Cable RF113, 50ohm, gray	1	
1	PCB 30*15*0.8mm, FR4	1	

XX.	±5.0	APPROVED	CUSTOMER: 共进
X.	±3.0		PART NO : 8000000044721341
.X	±0.25	CHECKED	PART NAME: RF Antenna Assembly
XX	±0.08		X.S P/NO : 400621-22755-01
XXX	±0.05	DRAWING	REV UNIT FILE :
			mm SHEET : 1/1

CUSTOMER DRAWING

Rev.	ECN No.	DESCRIPTION
A	2018/08/27	New Issue

Notes:

- 1: Material and finish(Plating)
 △ Housing: PBT (Black) UL94V-0.
 △ Shell: Phosphor bronze: Au over Ni
 △ Contact: Phosphor bronze: Au over Ni
- 2: Impedance: 50 OHM Nominal
- 3: Frequency Rating: DC TO 6 GHZ
- 4: VSWR: DC -- 3GHz 1.3max.
 3 GHz -- 6GHz 1.5max.
- 5: Cable retention force 10N min.
- 6: The harmful material of this part should be compliance with CCT document QW-QA-10.

PRODUCT NUMBER ORDER

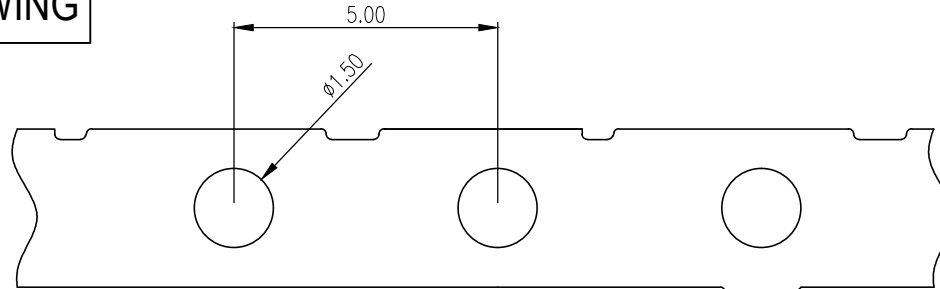
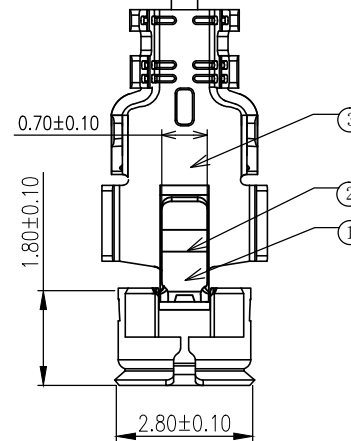
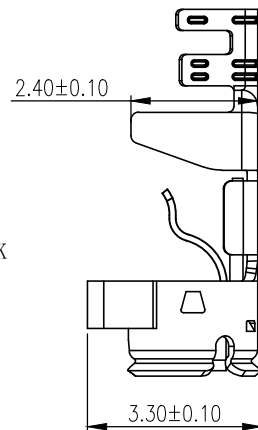
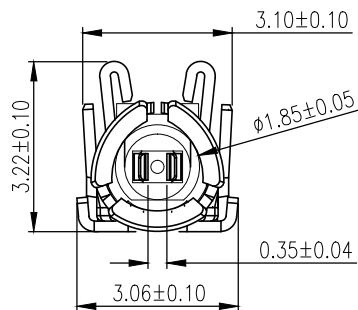
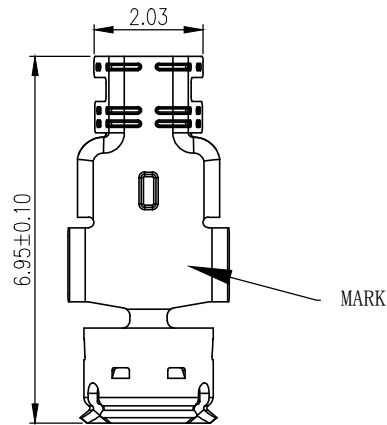
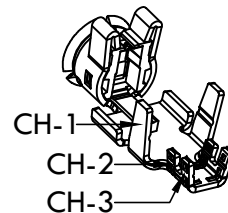
ANC 0 1 13 L - 1 2 1
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Production Code :
 ANC: ANTENNA PLUG for cable
- ② Height after mated broad end :
 0 : SPEC.
- ③ Mitch Cable Ø :
 113: Cable Ø 1.13mm
- ④ Shell Gold Plating Thickness :
 L: Plating Gold 0.5 u" min.
- ⑤ Product design generation:
 1: First generation.
- ⑥ Customer identification code:
 2: Another CUS
- ⑦ Color of Housing:
 1: Black

TOLERANCES UNLESS OTHERWISE SPECIFIED							
X.	/	.XXX	/	SERIES:		TITLE:	
.X	±0.25	X.°	±1°	ANTENNA CABLE END SERIES		AN Plug for OD 1.13mm	
.XX	±0.15	.X°	±0.5°	APPD:		PART No.:	
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KUNSHAN COCENTRA ELECTRONICS Co.LTD. AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF KUNSHAN COCENTRA ELECTRONICS Co.LTD.				CKD:		2212-0215004-01	
				DR:		DWG No.:	
				UNITS	MAT'L	FINISH	SCALE
				MM	NA	NA	1:1
							SHEET
							1/1
							REV.
							DX1

Unit: mm

CH-1	1. 34-1. 40
CH-2	1. 02-1. 10
CH-3	1. 10-1. 25

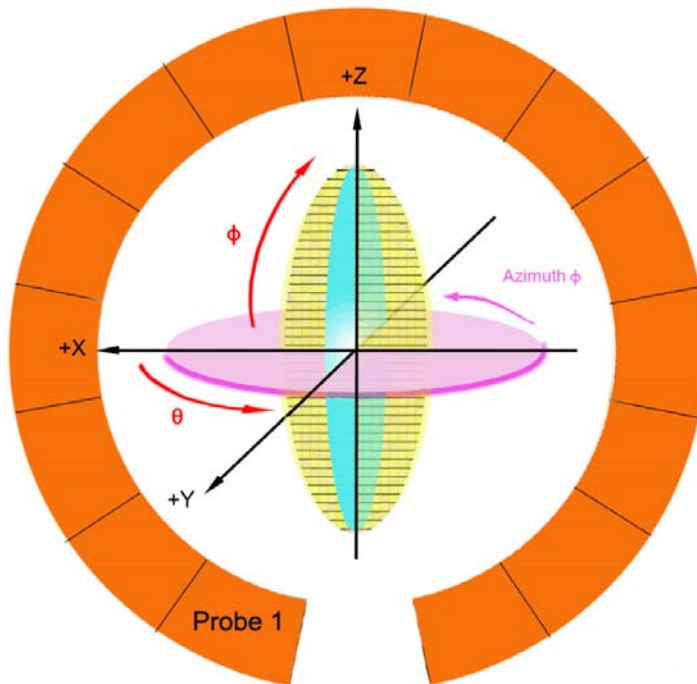
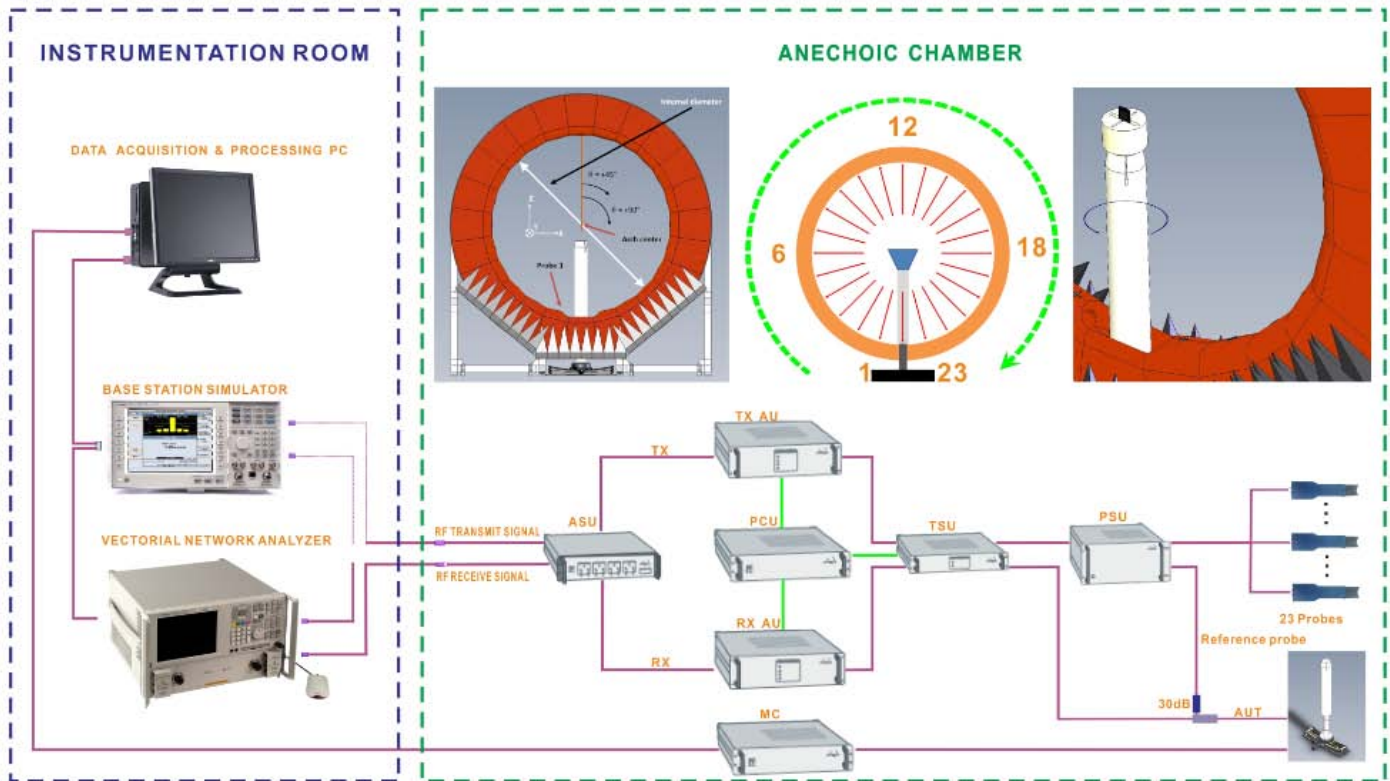


HSF

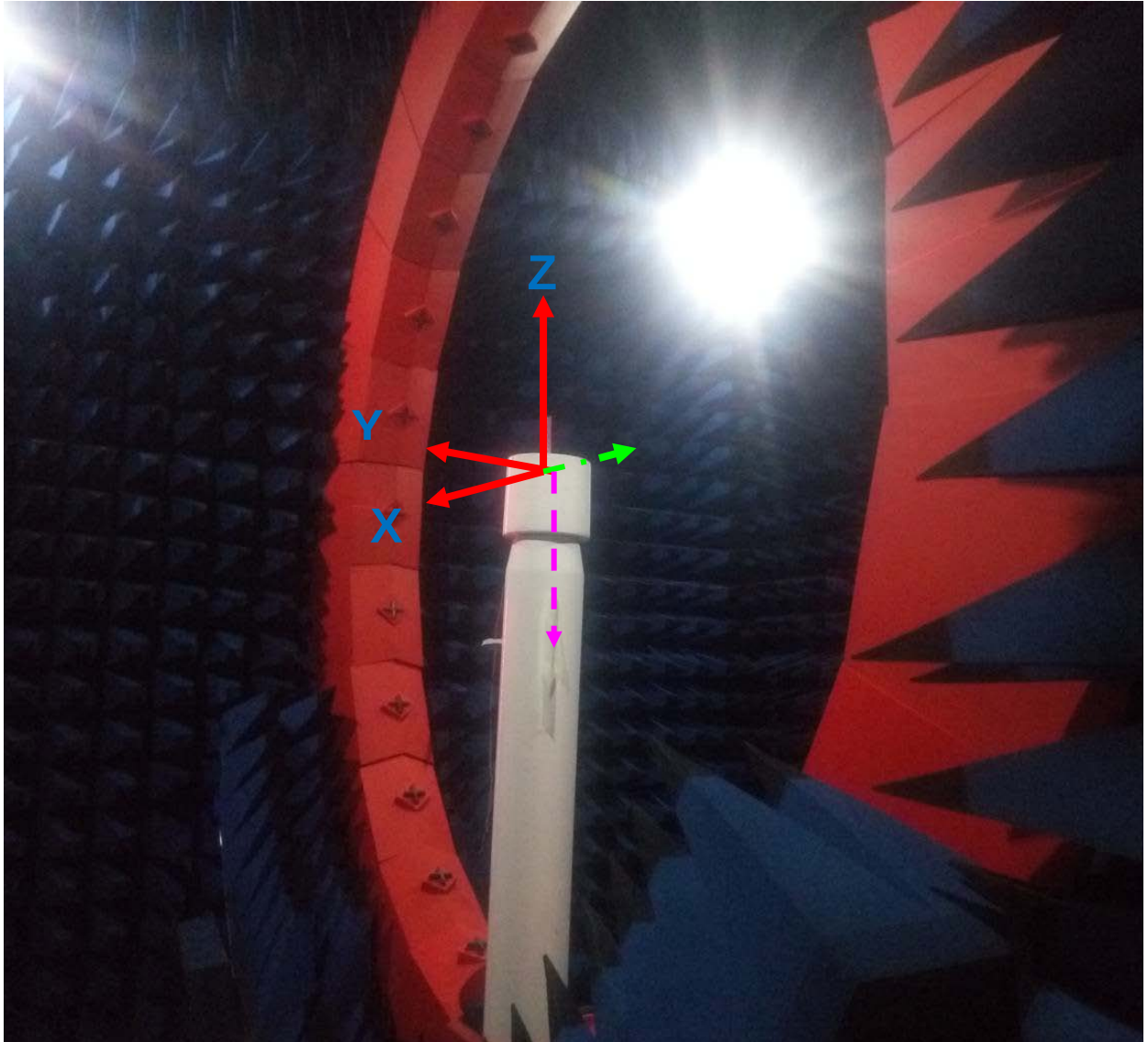
Test Results

1 Antenna

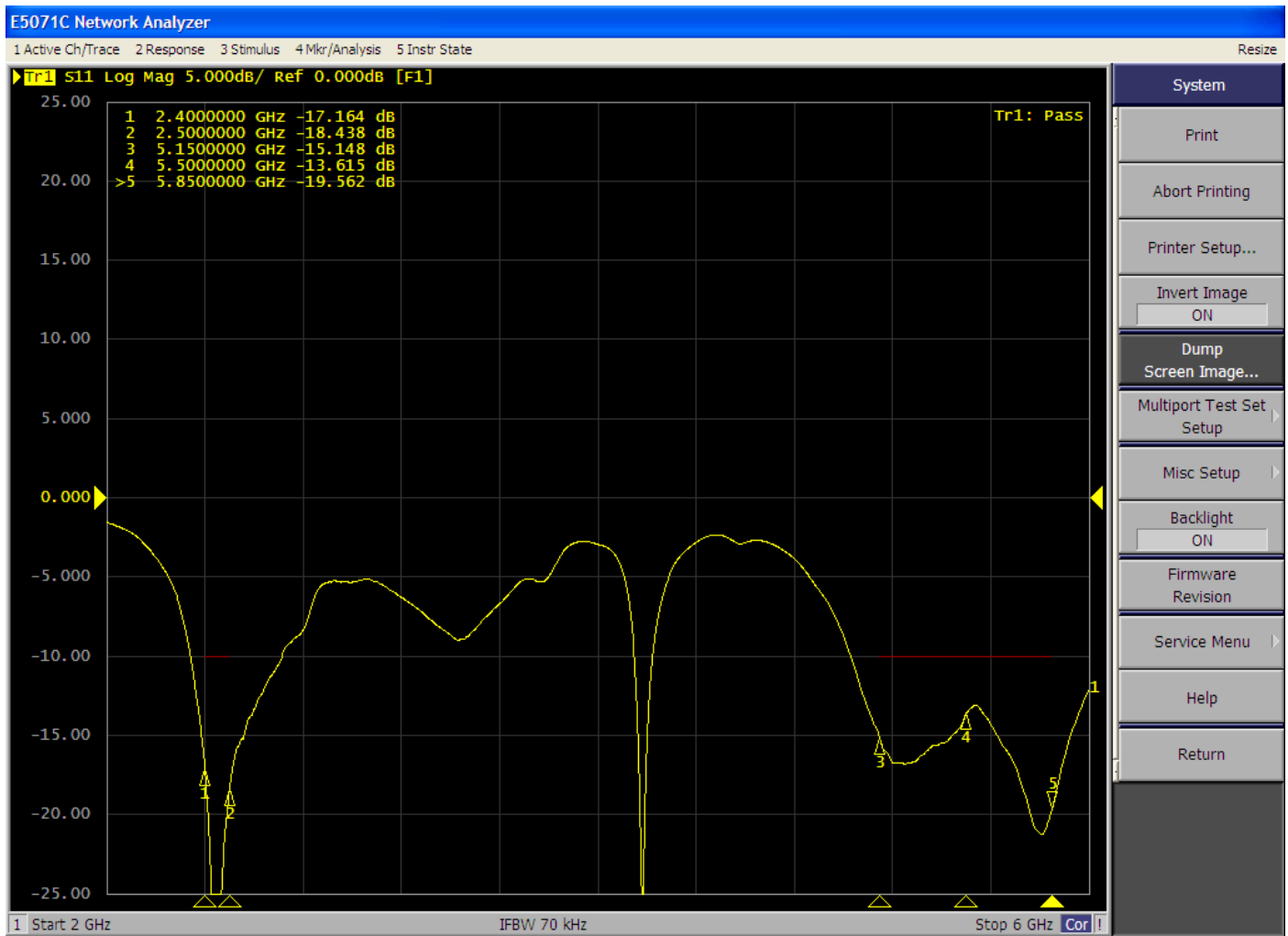
1.1 Test Setup



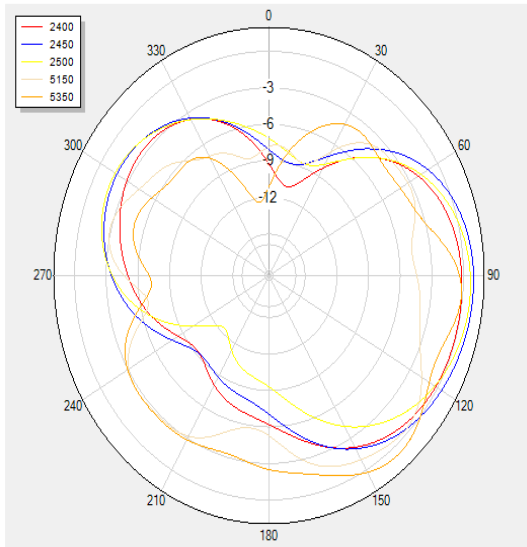
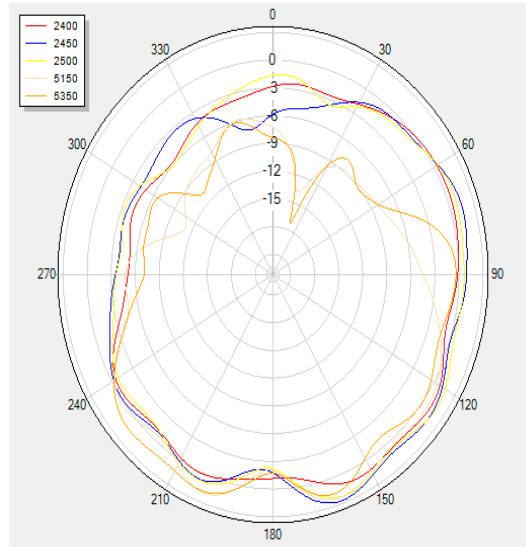
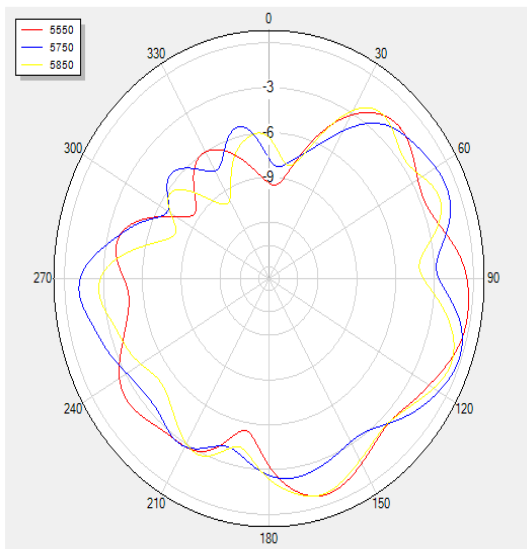
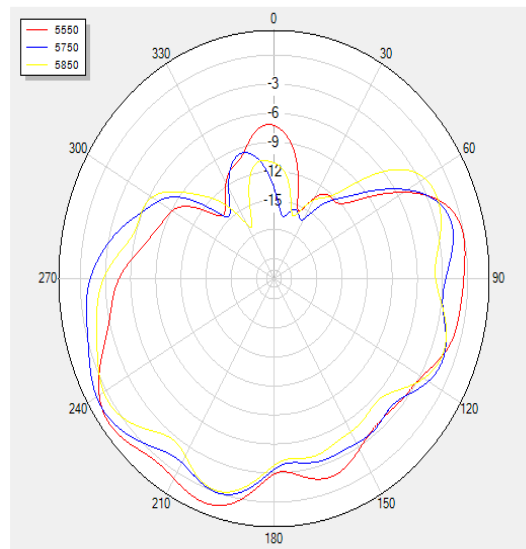
Configuration and Coordinate



3. Antenna S-parameter test results

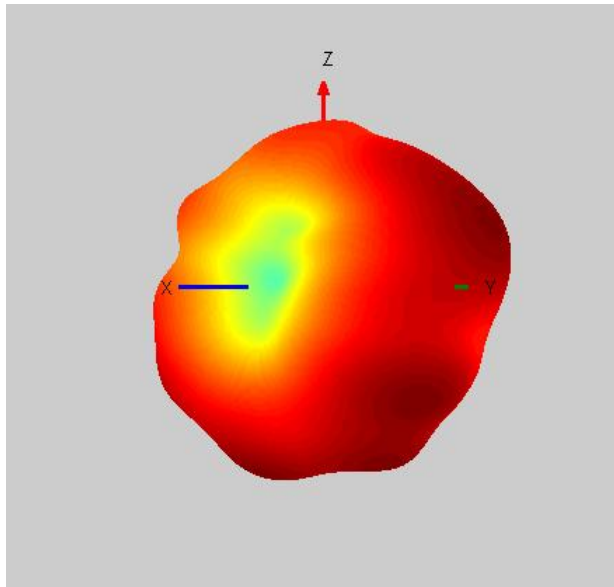


3. 2D Radiation patterns test results (Passive Antenna)

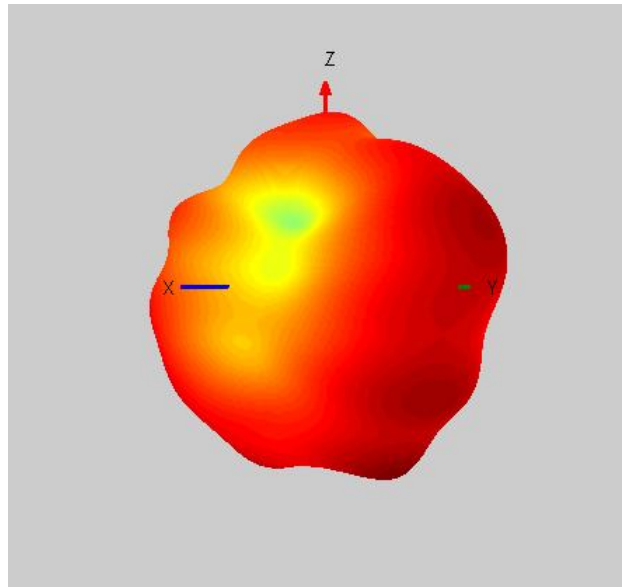
H Theta=90**V Phi=90****H Theta=90****V Phi=90**

4. 3D Radiation patterns test results (Passive Antenna)

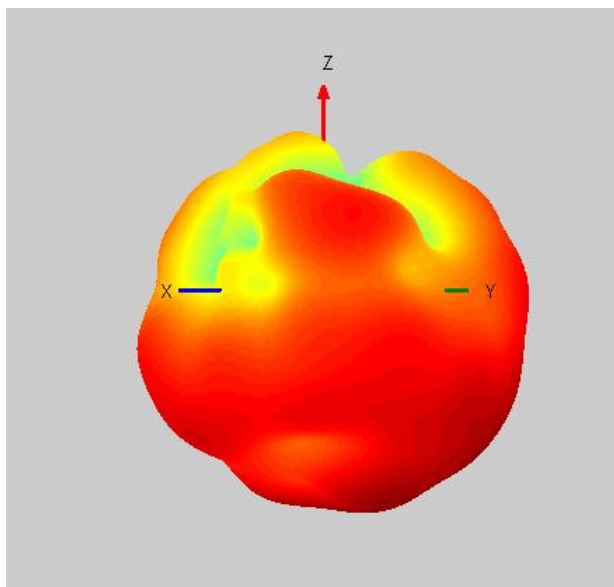
2400MHZ



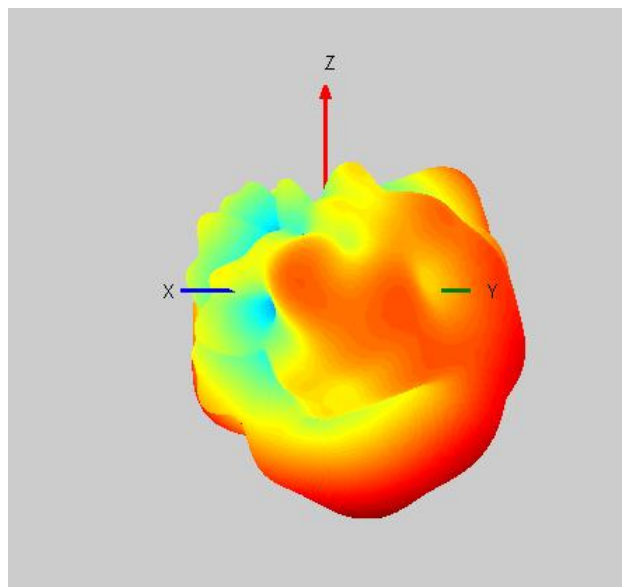
2500MHZ



5150MHZ



5850MHZ



Test Value

Gain&Efficiency 3# 增益和效率		
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率
2400M	3.22	75%
2450M	3.15	73%
2500M	3.29	73%
5150M	3.16	74%
5350M	3.19	75%
5550M	3.25	75%
5750M	3.26	74%
5850M	3.2	75%