



東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

客户名称 Customer: gongjin

客户料号 Customer Material number: 8000000034571341

物料名称 Material name: Internal antenna

物料型号 Material type: 400621-22626-01

物料描述 Material description: Internal Antenna, 3.0dBI@5.15GHz, 50Ω, FR4, 17.5*9.8*0.8mm, L=65mm, RF113, Black, IPEX, EmP220-B-165 (B) (Xinsheng),

T&W-researched

版 本 Edition: V1

供 应 商 承 认 The supplier acknowledge	
工 程 Engineering	批 准 Approval
袁裕深	叶晔
盖章签署 Signed	
日 期 Date	2021-4-19

供应商名称 Supplier name: 东莞市新盛电子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

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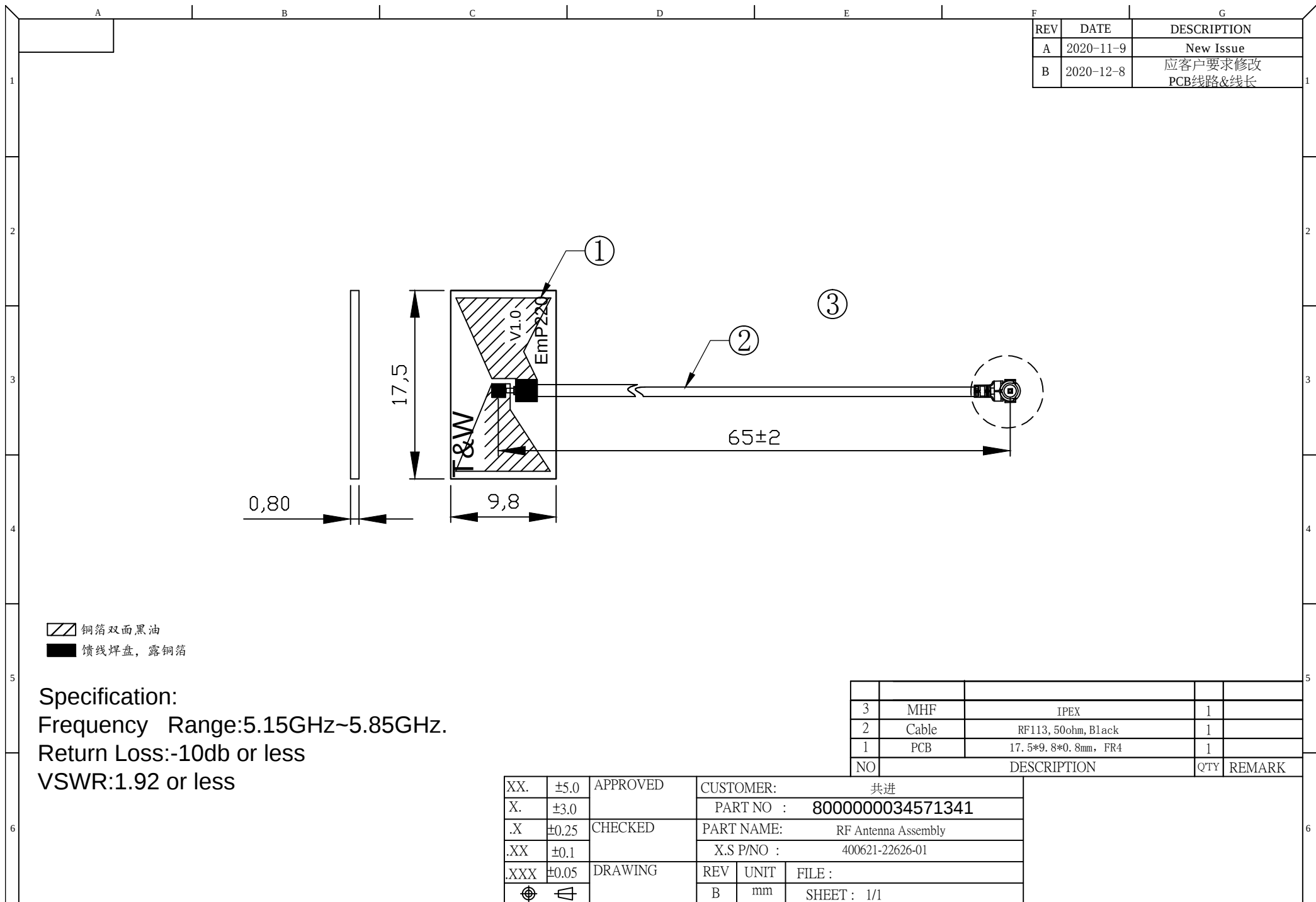
Specification

1. Antenna Electrical Properties:

1.1	Frequency	5.15-5.85GHz
1.2	Impedance	50 ohm Nominal
1.3	VSWR	1.92:1 Max
1.4	Return Loss	-10 dB Max.
1.5	Polarization	Line
1.6	Gain	3.15dBi

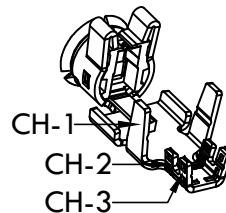
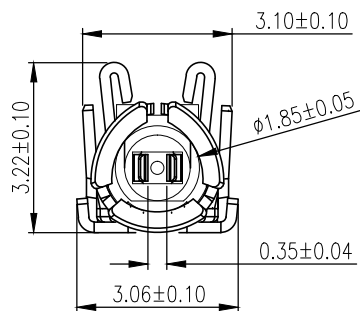
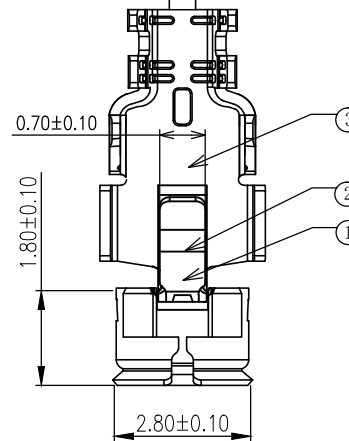
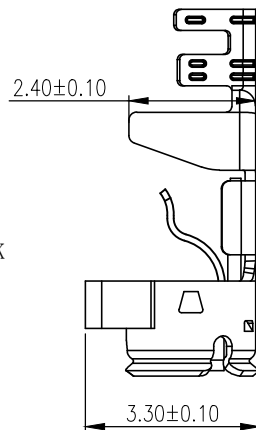
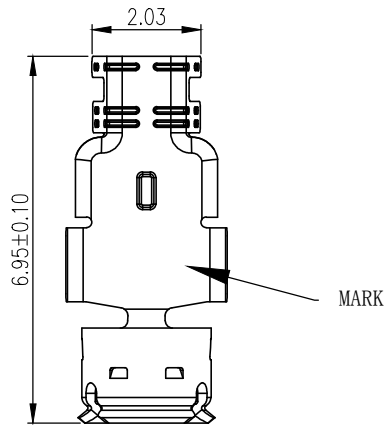
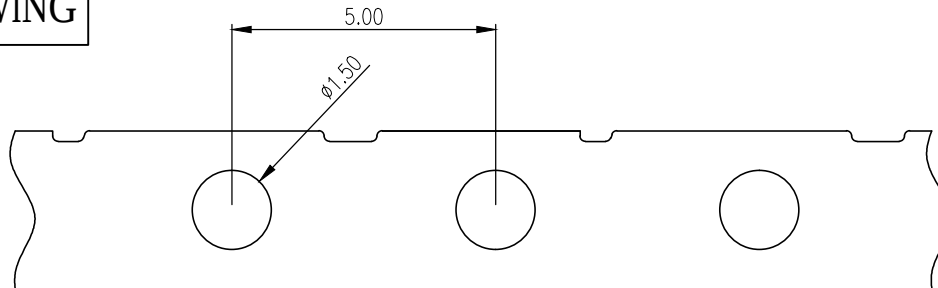
2. Physical Properties:

2.1	Operating Temperature	-30~+60℃
2.2	Storage Temperature	-30~+70℃
2.3	Humidity	≤95℃ @ 25℃
2.4	Cable Length	65mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	IPEX



CUSTOMER DRAWING

HSF



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	/
.X	±0.25	X.°	±1°
.XX	±0.15	.X°	±0.5°

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CH-1	1. 34-1. 40	Unit:mm
CH-2	1. 02-1. 10	
CH-3	1. 10-1. 25	

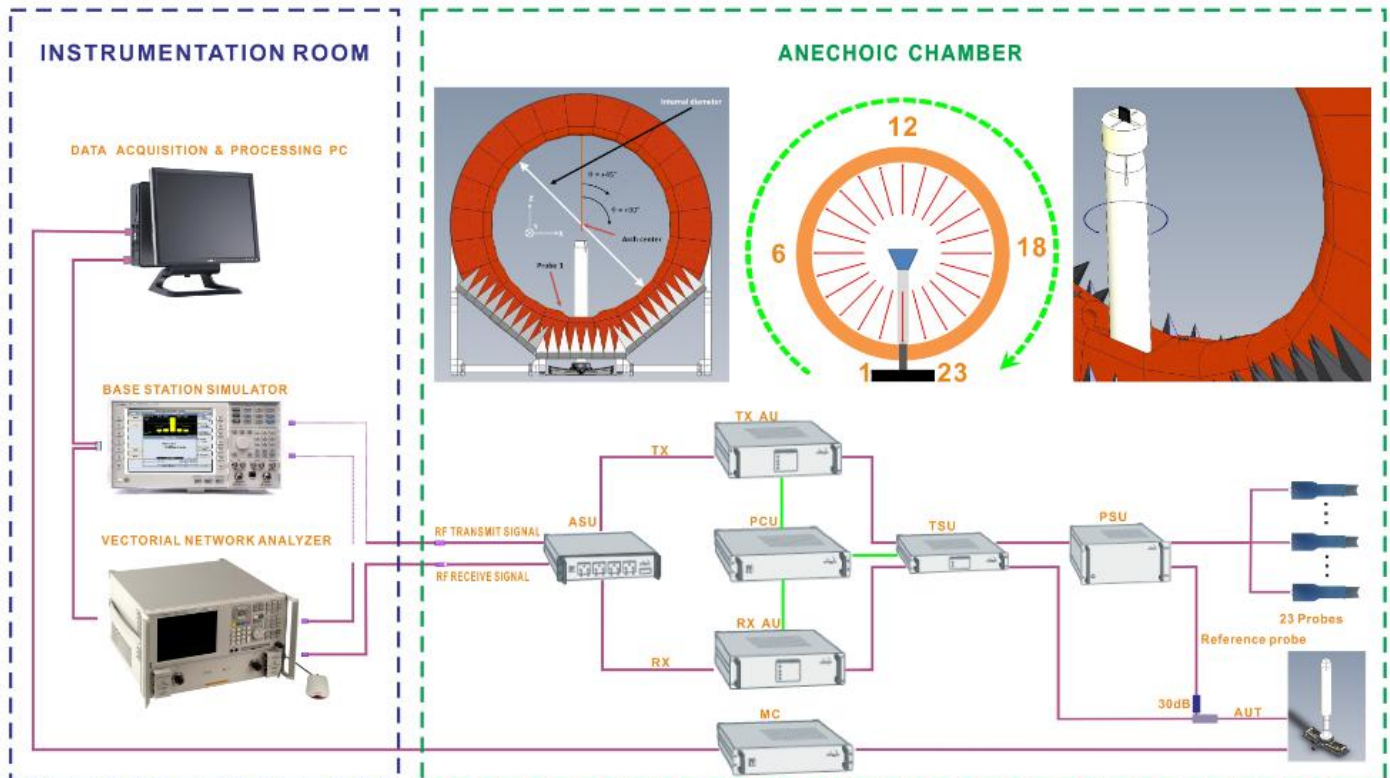
SERIES: ANTENNA CABLE END SERIES		TITLE: AN Plug for OD 1.13mm				
APPD:		PART No.: 2212-0215004-01				
CKD:						
DR:		DWG No.:				
	UNITS	MAT'L	FINISH	SCALE	SHEET	REV.
	MM	NA	NA	1:1	1/1	DX1



5Test Results

Antenna

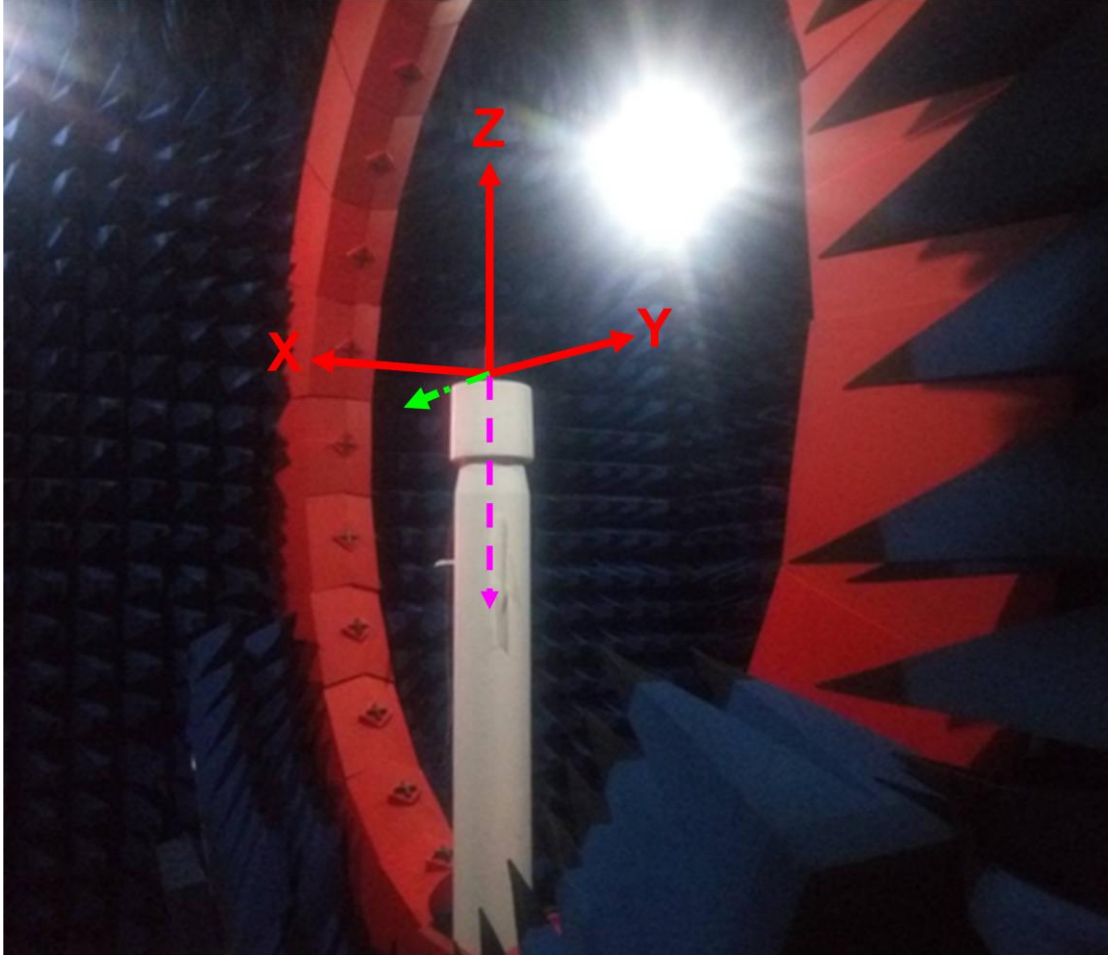
1 Test Setup





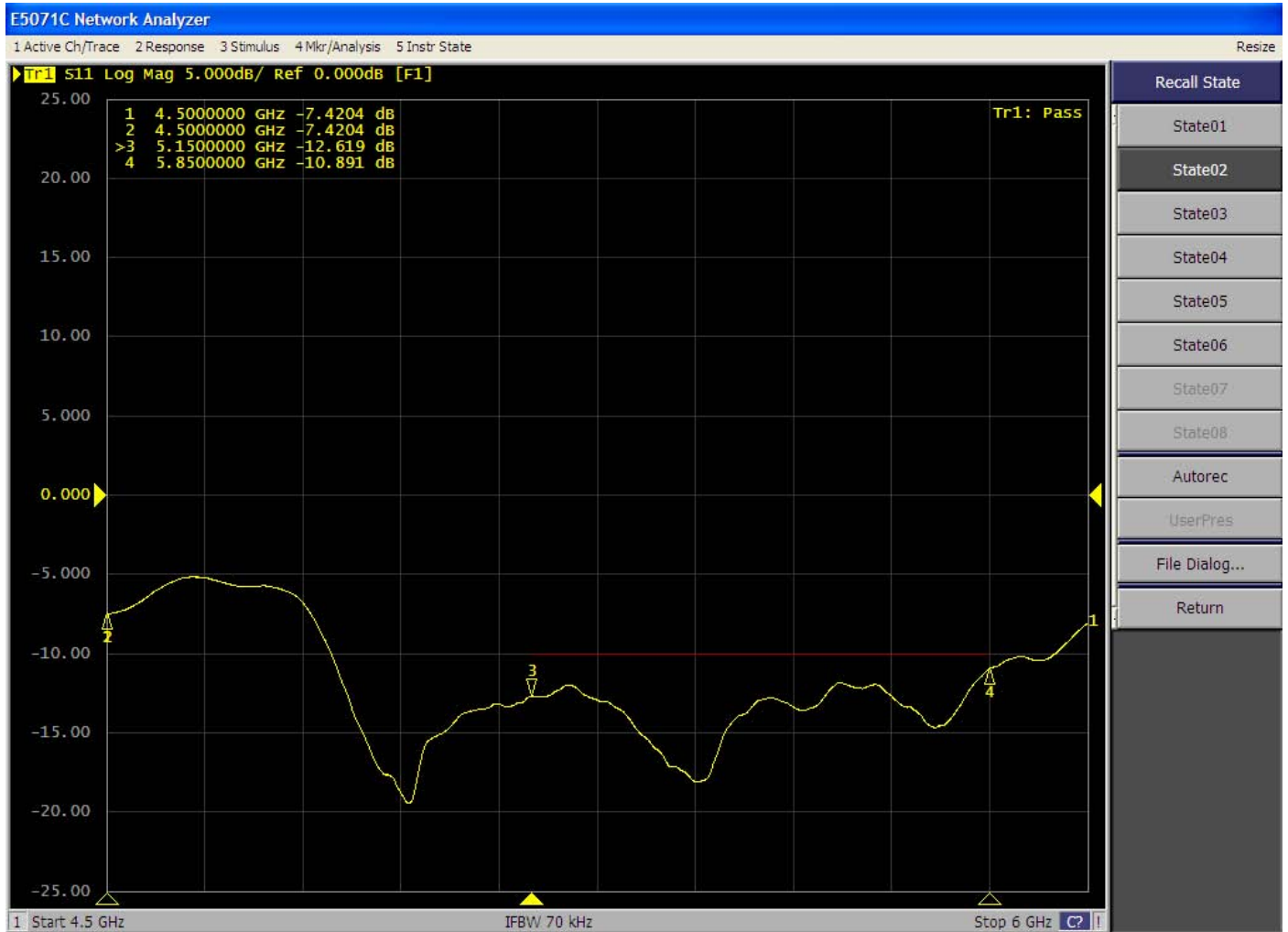
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Configuration and Coordinate





2. Antenna S-parameter test results



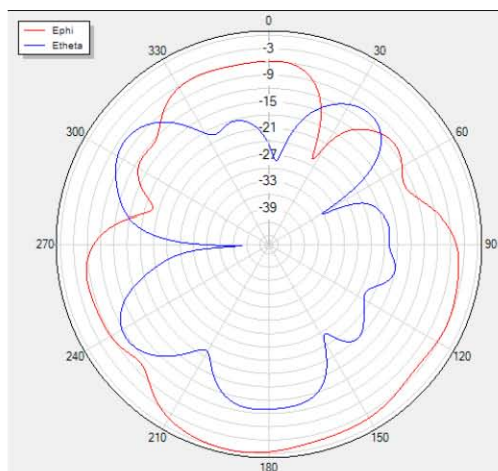


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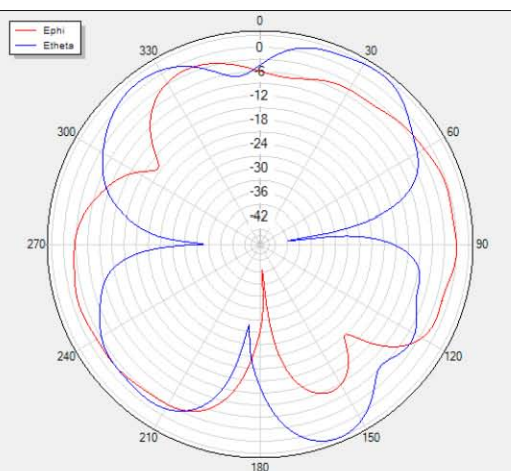
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3. 2D Radiation patterns test results (Passive Antenna)

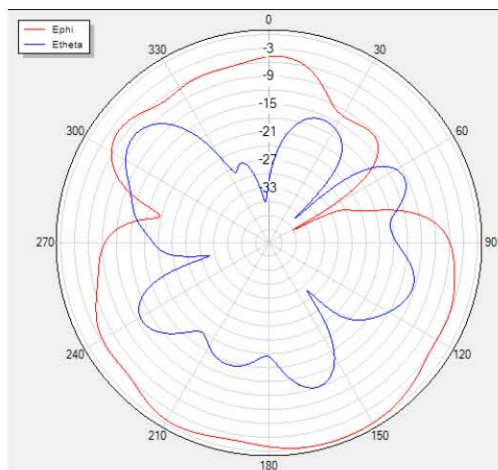
H Theta=90 freq=5150MHz



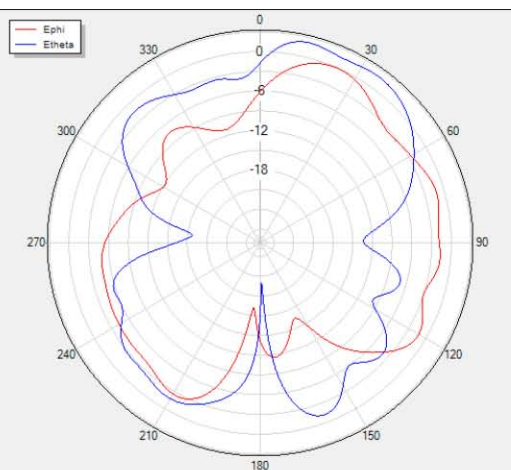
V Phi=90 freq=5150MHz



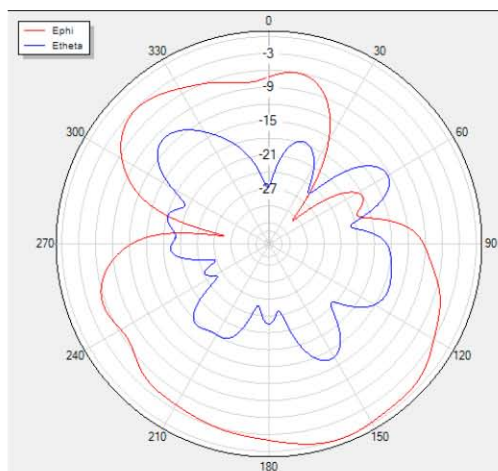
H Theta=90 freq=5550MHz



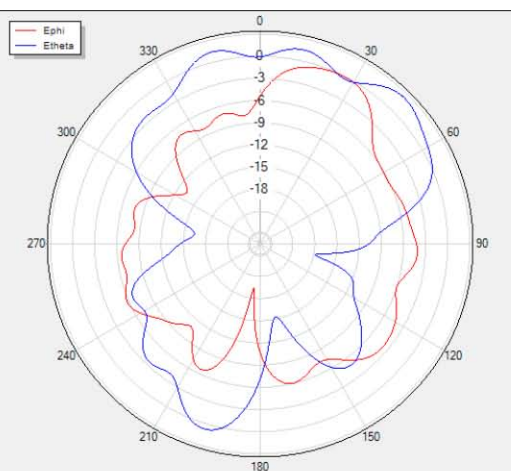
V Phi=90 freq=5550MHz



H Theta=90 freq=5850MHz



V Phi=90 freq=5850MHz

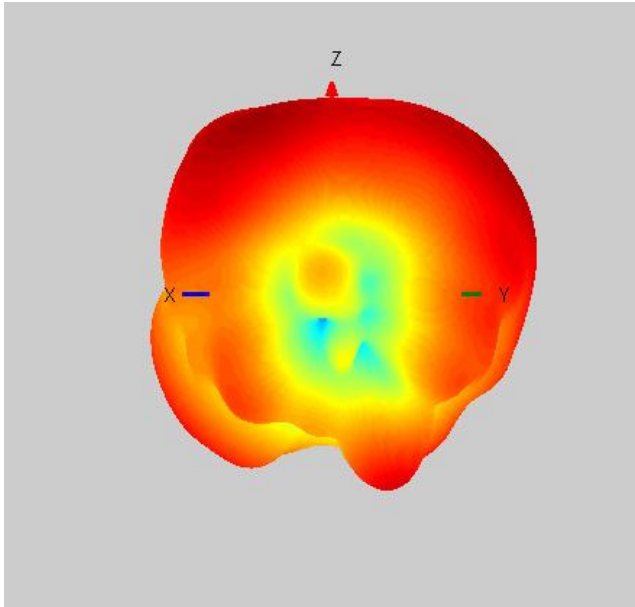




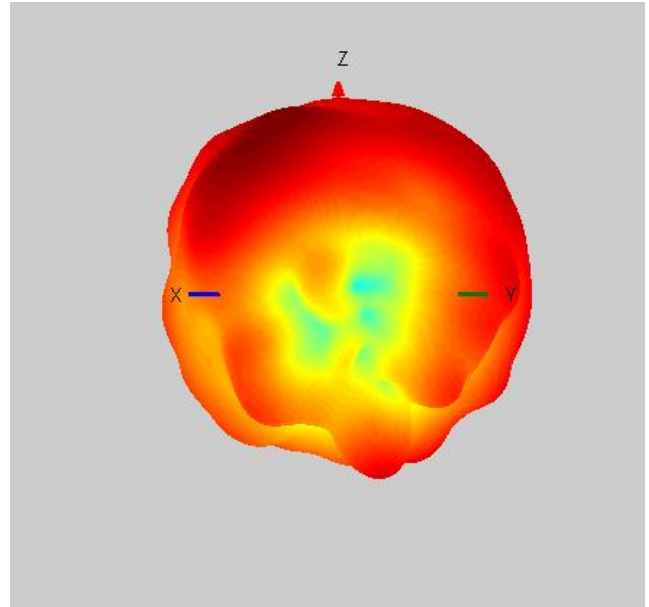
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4. 3D Radiation patterns test results (Passive Antenna)

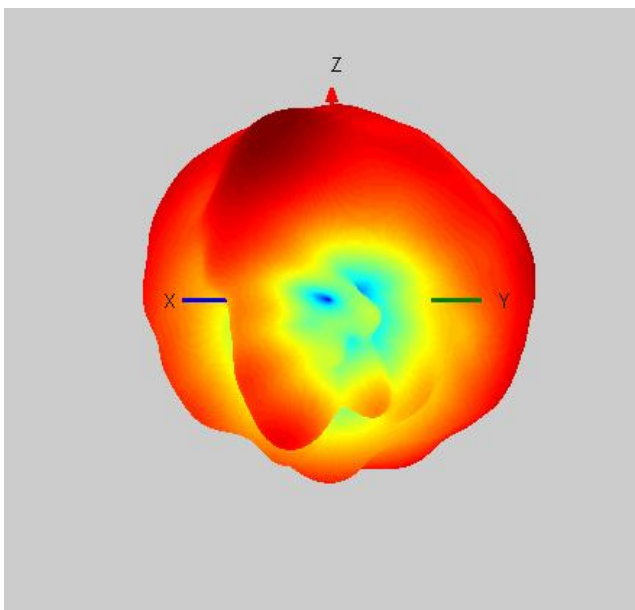
5150MHZ



5550MHZ



5850MHZ





5.Test Value

gain @efficiency 增益和效率		
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率
5150M	3.01	72%
5350M	3.11	74%
5550M	3.14	72%
5750M	3.15	73%
5850M	3.05	73%