



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: 8000000031761341

物料名称 Material name: internal antenna

物料型号 Material type: 400621-22586-01

物料描述 Material description: Internal Antenna, 3dBi@2.45GHz, 50Ω, FR4, 40*7*1.0mm, L=105mm, RF113, Gray, IPEX, EmP102-B-I105(G) (Xinsheng), T&W-re searched

版 本 Edition: V0

工 程 Engineering	批 准 Approval
袁裕深	叶晔
盖章签署 Signed	
日 期 Date	2020-11-14

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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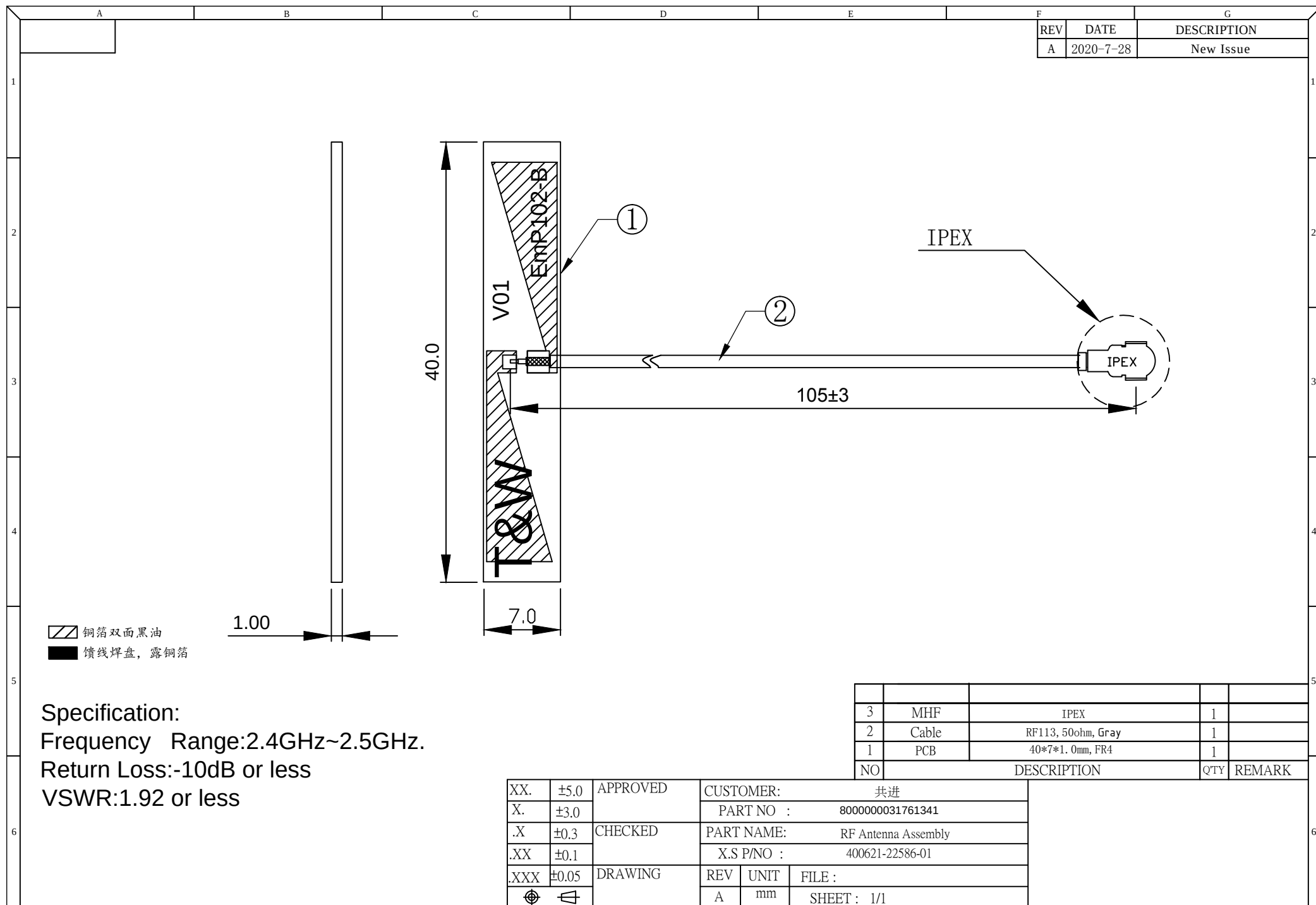
Specification

1. Antenna Electrical Properties:

1.1	Frequency	2.4-2.5GHz
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	3.24dBi

2. Physical Properties:

2.1	Operating Temperature	-30~+60℃
2.2	Storage Temperature	-30~+70℃
2.3	Humidity	≤95℃ @ 25℃
2.4	Cable Length	105mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	IPEX

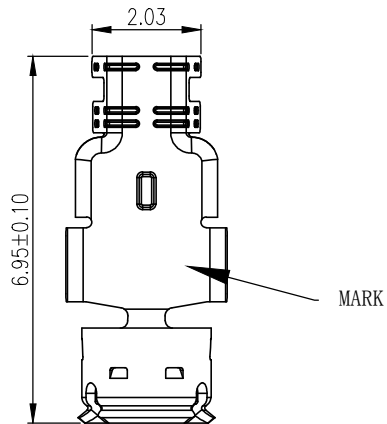


CUSTOMER DRAWING

HSF

5.00

Ø1.50



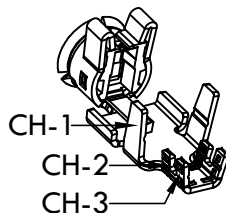
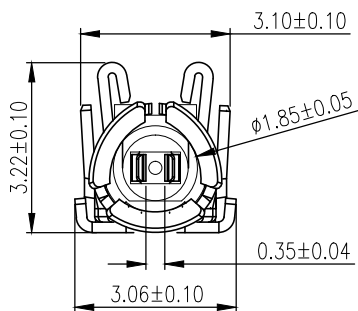
2.40±0.10

3.30±0.10

0.70±0.10

1.80±0.10

2.80±0.10



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

TOLERANCES UNLESS OTHERWISE SPECIFIED			
X.	/	.XXX	/
.X	±0.25	X.°	±1°
.XX	±0.15	.X°	±0.5°

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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 Miltch 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

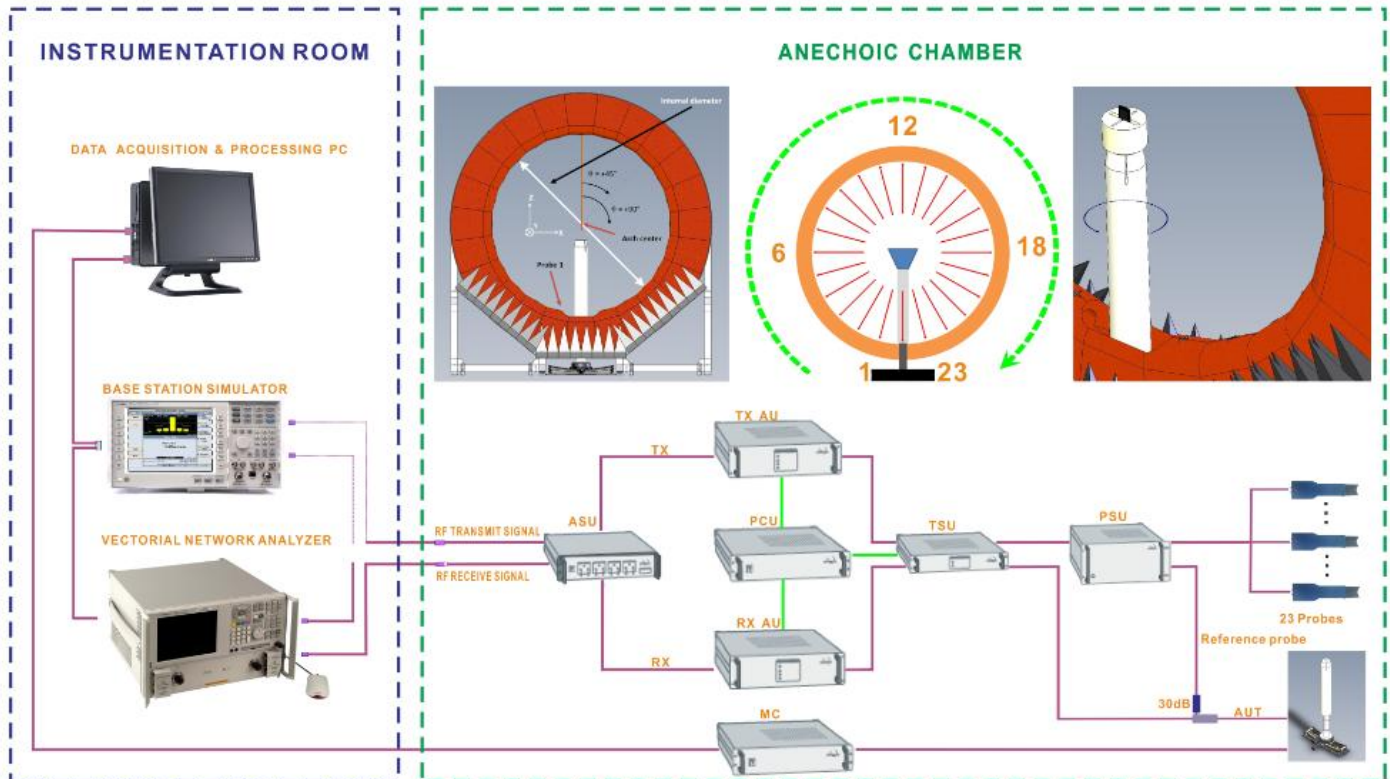
SERIES: ANTENNA CABLE END SERIES		TITLE: AN Plug for OD 1.13mm				
APPD:		PART No.: 2212-0215004-01				
CKD:						
DR:		DWG No.:				
	UNITS	MAT'L	FINISH	SCALE	SHEET	REV.
	MM	NA	NA	1:1	1/1	DX1



Test Results

Antenna

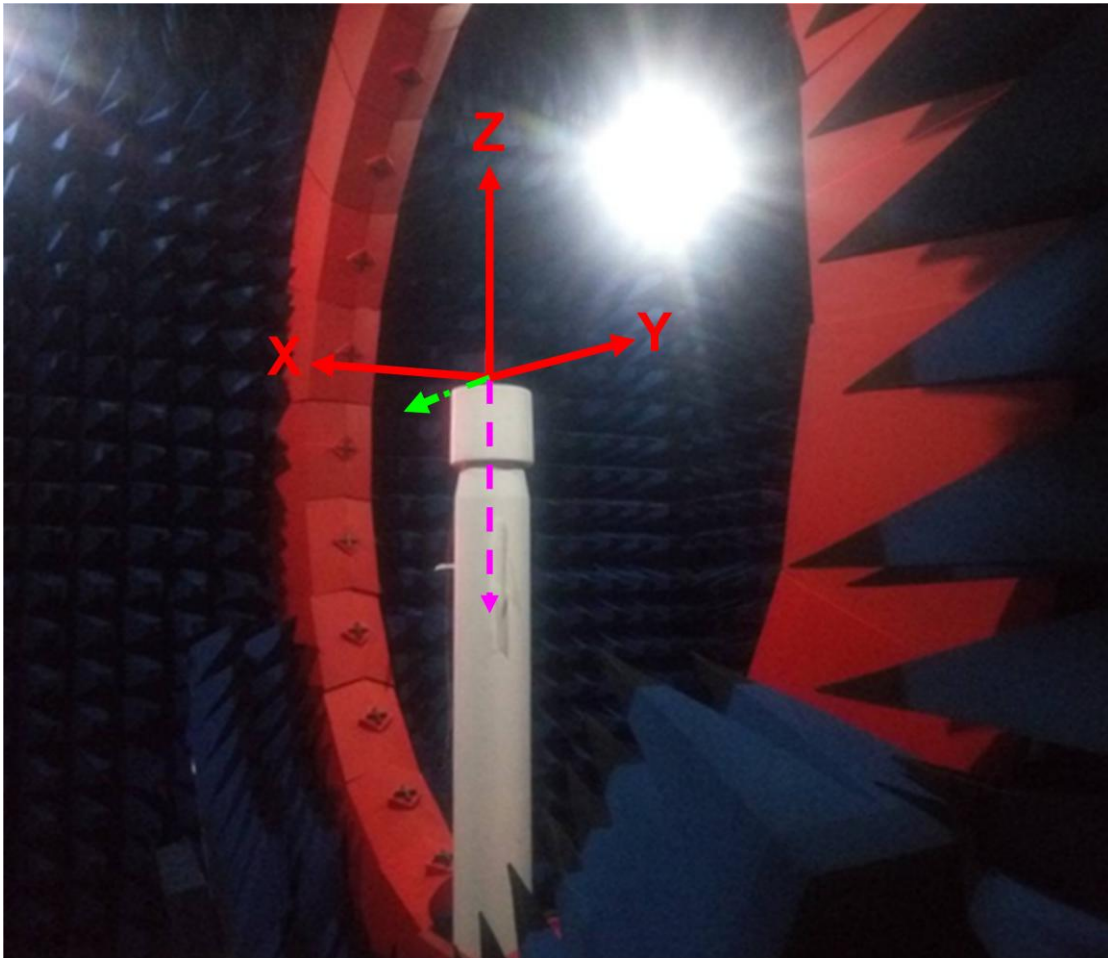
1 Test Setup





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Configuration and Coordinate

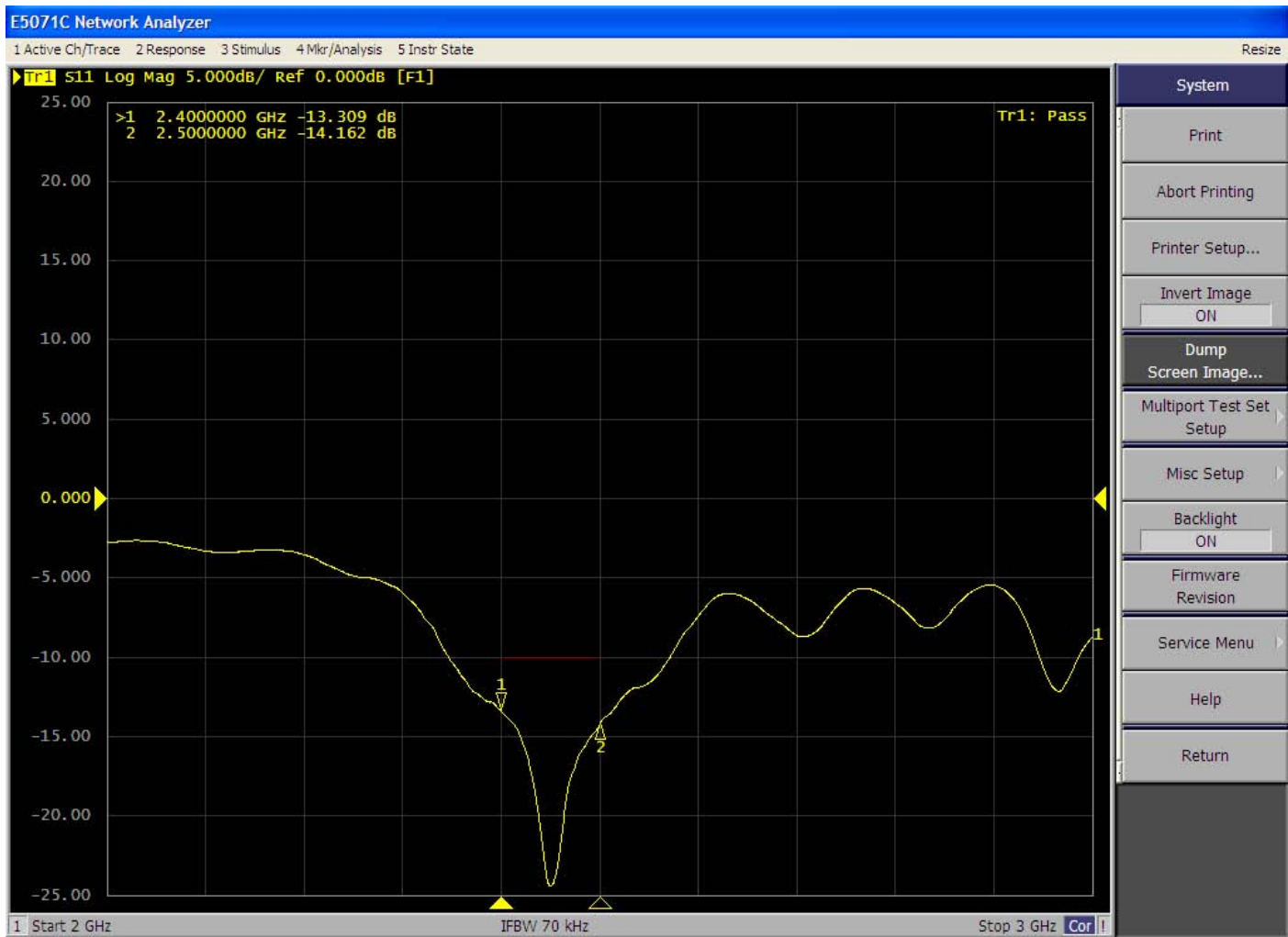




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Configuration of Wave Pro FFC-700 Chamber

2. Antenna S-parameter test results



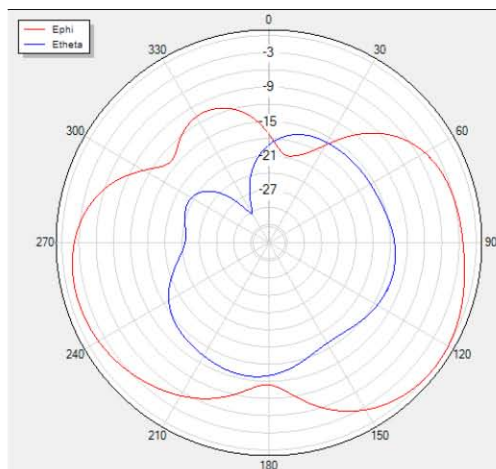


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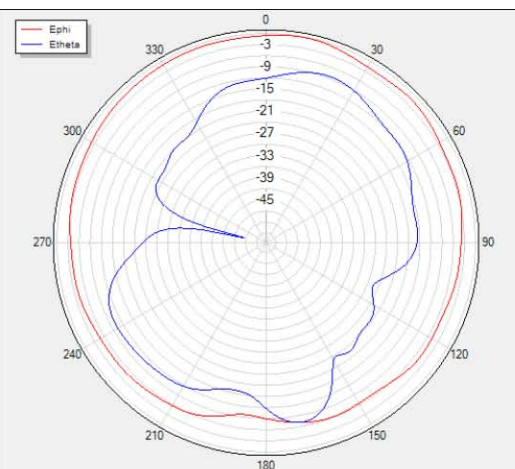
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3. 2D Radiation patterns test results (Passive Antenna)

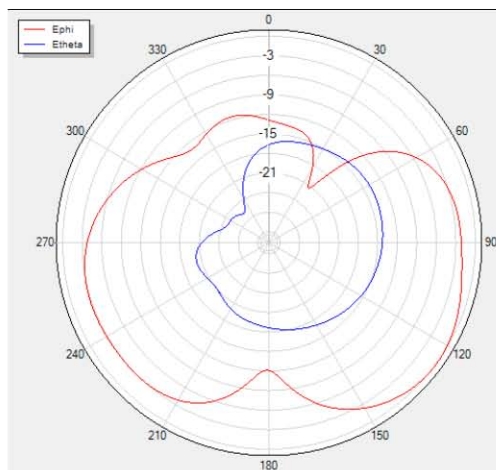
H Theta=90 freq=2400MHz



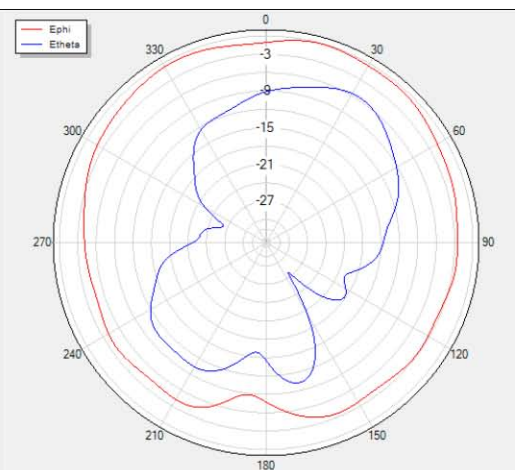
V Phi=90 freq=2400MHz



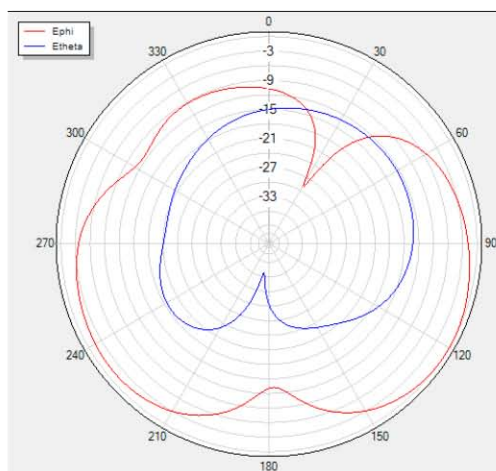
H Theta=90 freq=2450MHz



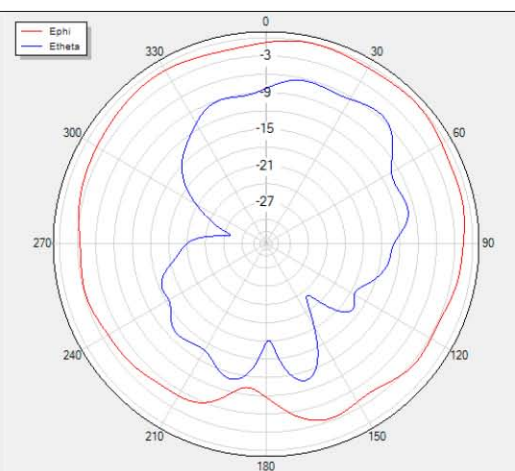
V Phi=90 freq=2450MHz



H Theta=90 freq=2500MHz



V Phi=90 freq=2500MHz





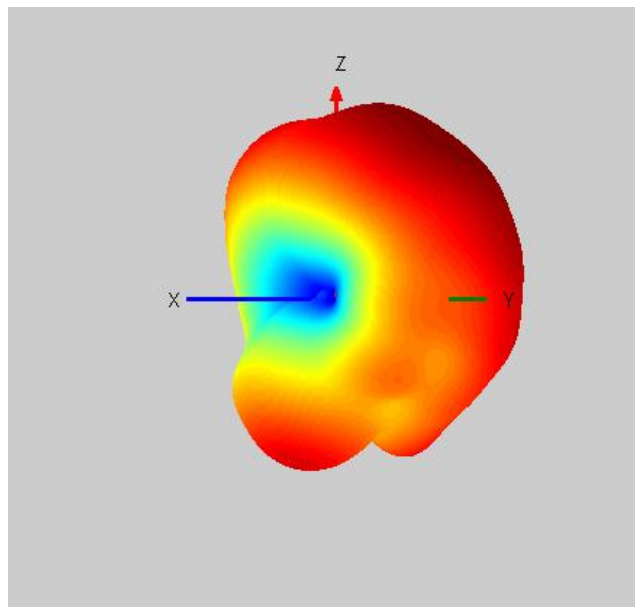
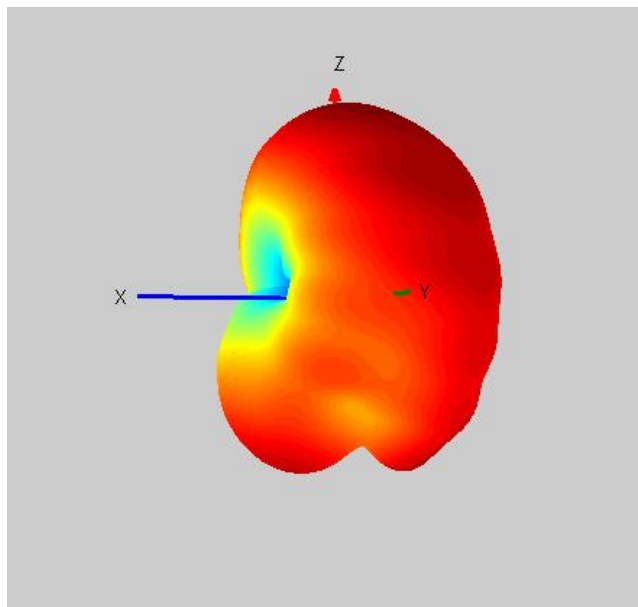
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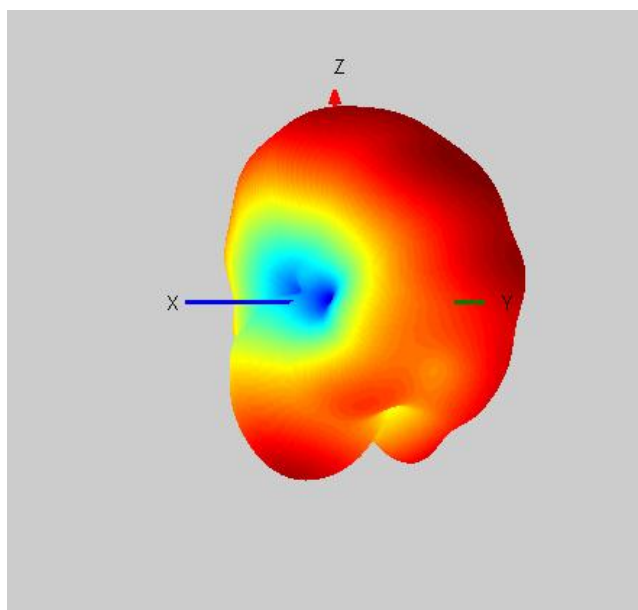
4. 3D Radiation patterns test results (Passive Antenna)

2400MHZ

2450MHZ



2500MHZ





5.Test Value

增益和效率 gain @efficiency		
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率
2400M	3.10	71%
2420M	3.15	69%
2440M	3.24	72 %
2460M	3.06	72%
2480M	3.21	73%
2500M	3.19	74%