承认书项目表

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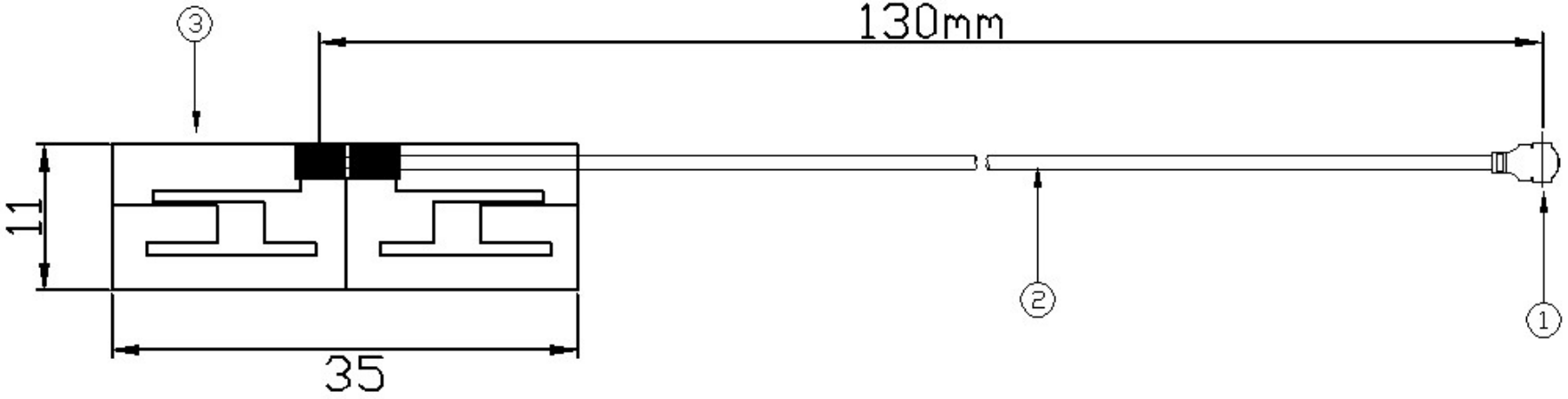
12	-	-	-

Manufacturer: Dongguan Mai Xun Electronics Co., LTD

Address: No. 6, Daning Qilin East Road, Humen Town, Dongguan City

SIGN	DATE	DESCRIPTION	APPROVER
A			
A			
A			



No.	Part Number	Name	Material	Q'ty
3	MXF3511A-A01	FPC	FPC 35*11*0.1mm	1
2	R-CB-113B	Coaxial Cable	O.D. 1.13mm Black	1
1	CI-113	Connector	Mini Connector	1

东莞脉讯电子有限公司

TITLE:2.4G 5G 5.8G Antenna

PART NO.: MXF3511A-113B-130IX

DWG NAME:MXF3511A-113B-130IX

APPROVED BY	CHECKED BY	DESIDNED BY		Tolerance
jeff 2021-06-8	leon 2021-06-8	YD 2021-06-8	UNITS: mm SCALE: 1/1 REVISION: A	X.X ±0.20 X.XX ±0.10 X° ±3°

电性测试报告

Test Reports

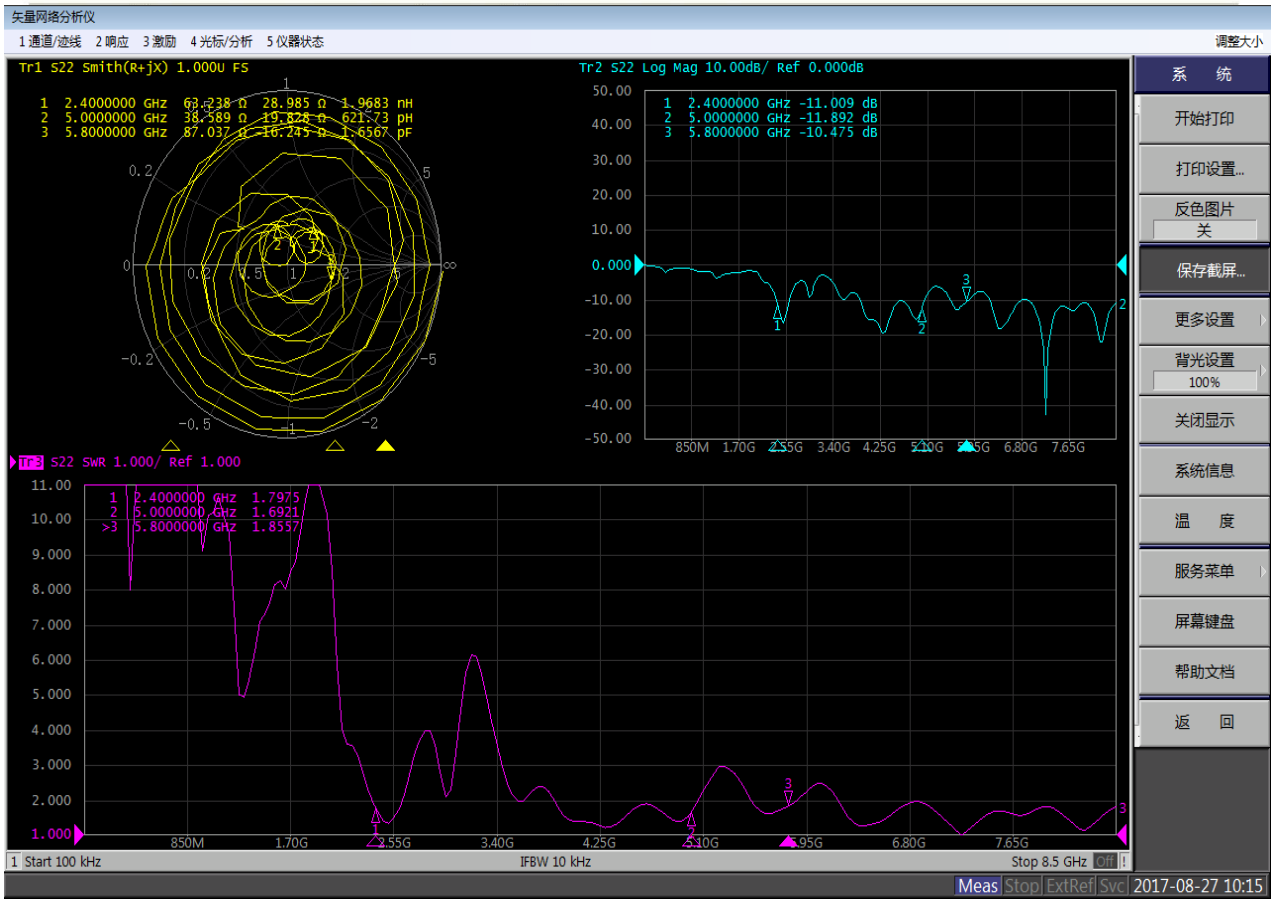
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz 4900 ~ 5900 MHz
S.W.R.	<= 2.0 @ 2400 ~ 2500 MHz <= 2.0 @ 4900 ~ 5900 MHz
Impedance	50 0hm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Cable Loss	2 dB / m Max
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	IPEX
Physical Properties	
Antenna Material	FPC
Cable Type	O.D. 1.13mm // 130 mm
Operating Temp.	-10 ~ +60 ˚C
Storage Temp.	-10 ~ +70 ˚C

ADD：东莞市虎门镇大宁麒麟东路6号 Tel:17084460528

S 参数测试

S Parameter Test

Agilent E5071C	



ADD：东莞市虎门镇大宁麒麟东路6号 Tel:17084460528

Product Number: MXF3511A-113B-130LX
Product Name: Antenna

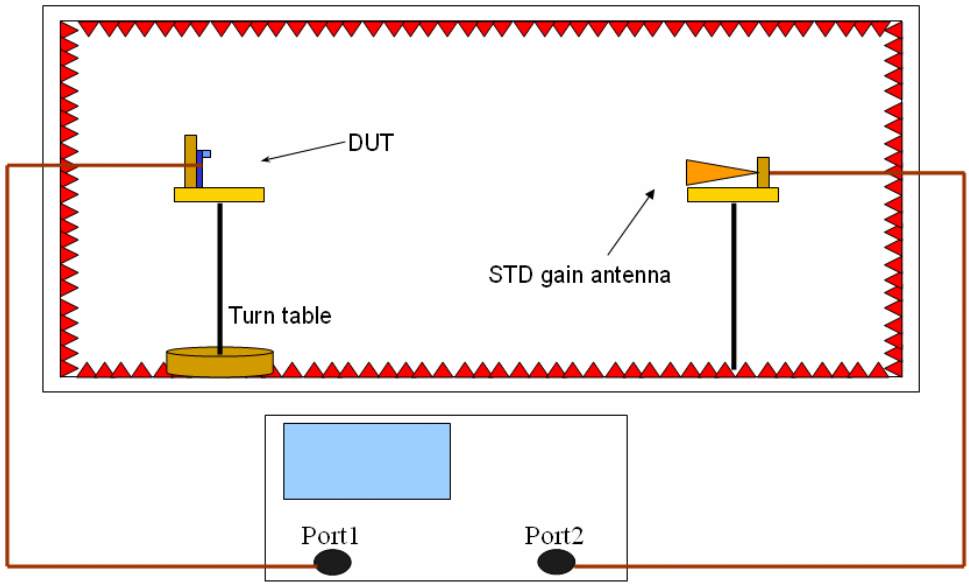
2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%

3. Antenna - Radiation Pattern Test Data

Testing Equipment Specification:

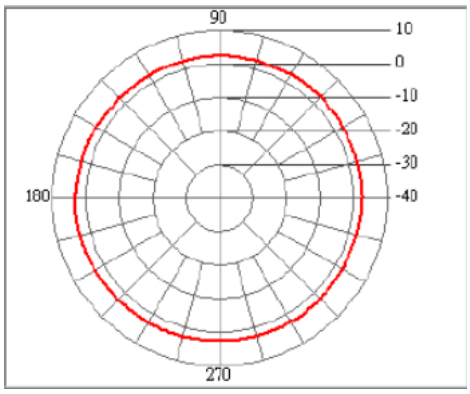
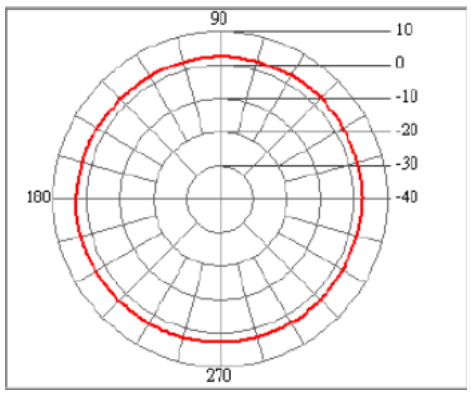
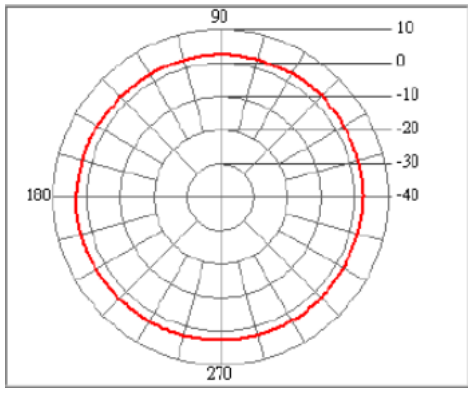
Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m
Quite Zone: 600mm @1 GHz
Isolation: >100dB @ 1 MHz ~ 10 GHz
Testing Equipment: Agilent 5071B
Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration
Double Ridged Horn Antenna

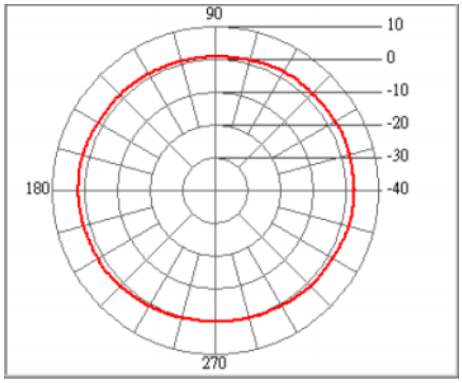
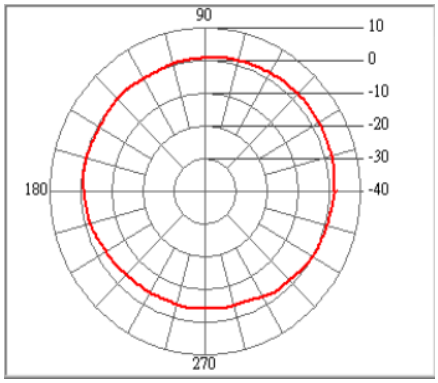
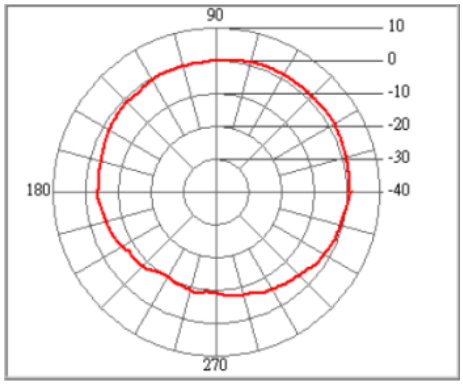


Product Name: Antenna

Antenna - Radiation Pattern Test Data

XY-PLANE

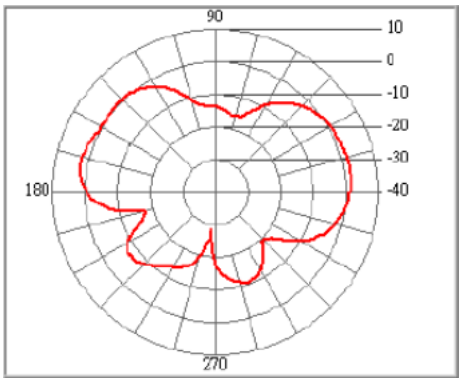
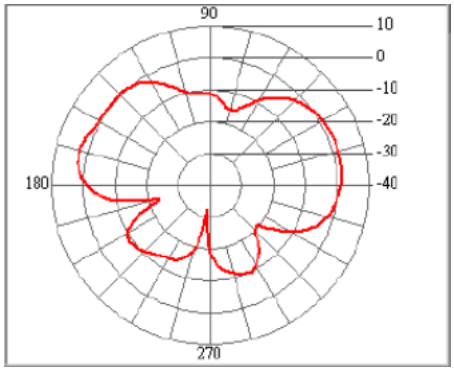
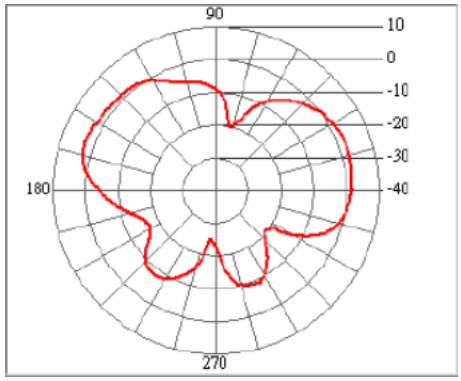
2400 MHz	2450 MHz	2500 MHz
		

5000 MHz	5500 MHz	5800 MHz
		

Product Name: Antenna

Antenna - Radiation Pattern Test Data

XZ-PLANE

2400 MHz	2450 MHz	2500 MHz
		

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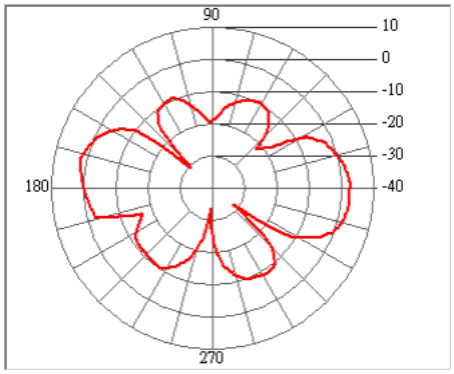
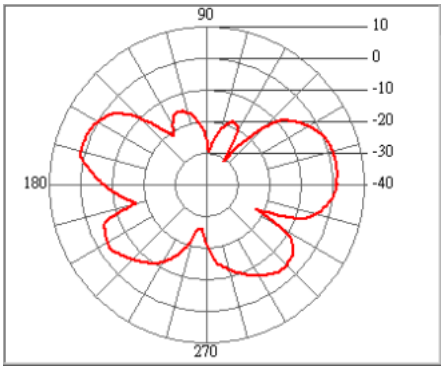
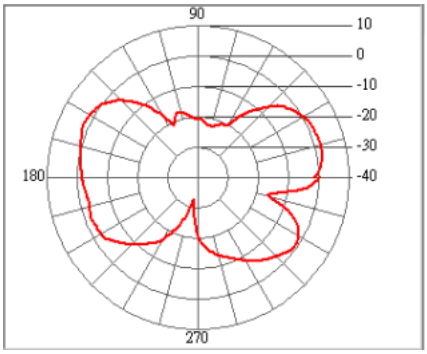
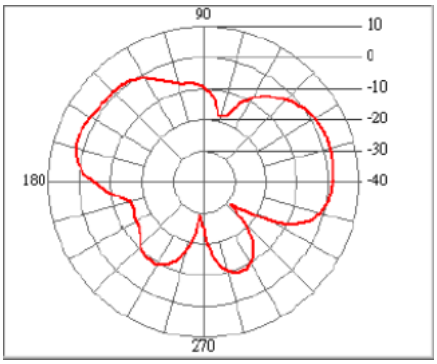
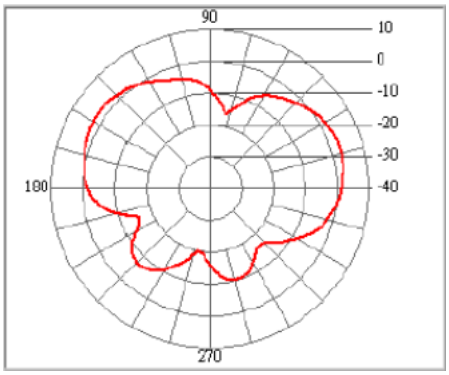
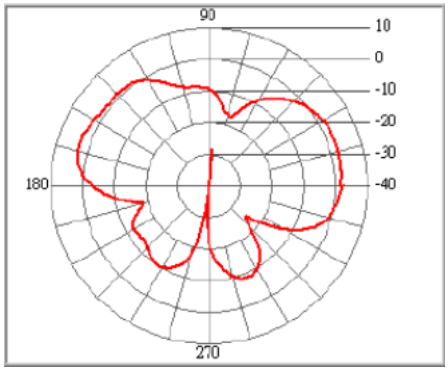
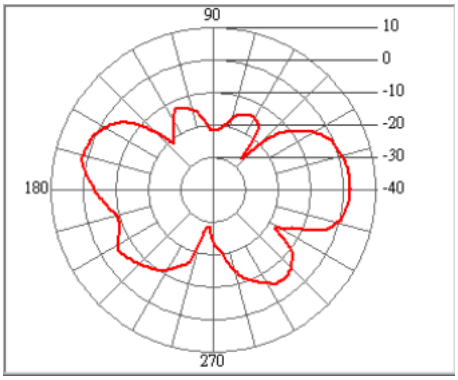
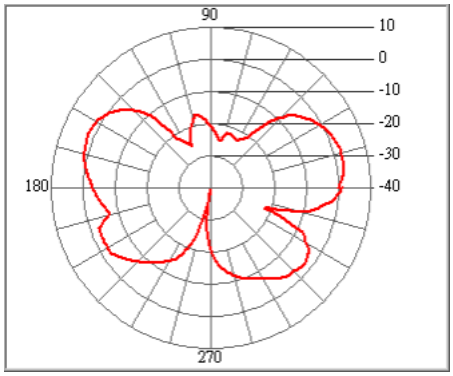
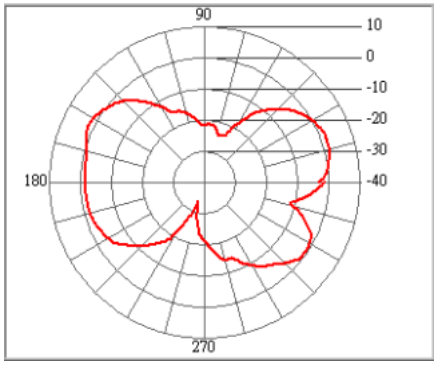
		

Product Name: Antenna

Antenna - Radiation Pattern Test Data

XY-PLANE

2400 MHz	2450 MHz	2500 MHz
		

5000 MHz	5500 MHz	5800 MHz
		

Frequency	2400	2450	2500	5000	5500	5800
Peak Gain(dbi)	2.98	3.35	2.92	3.06	2.42	2.36