

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER(客户名称)	TCL	
	CS P/N(客户机种)	TVN22-A-179-150	TV-150
	PART NAME(品名)	WIFI antenna	L=150mm
	FREQUENCY(频率)	2.4G~2.5G/5.15G~5.85GHz	
	ZTX NO.(物料编号)	2.00005875	
	DATE(日期)	2022-12-05	

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		陈正伟	韦进	



Shenzhen ZTX Communication Technology Co., Ltd

Address: No.34 Shilong Avenue, Shiyan Town, Baoan District, Shenzhen (Tengda Industrial Park)

zip code: 518000

TEL: 0755-27588320

Fax: 0755-27588045

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :TVN22-A-179-150 WIFI antenna

ApplicationDate:Dec,05,2022

Rev: R:A0

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Revision history

version	date	status
A0	2022-12-05	first version

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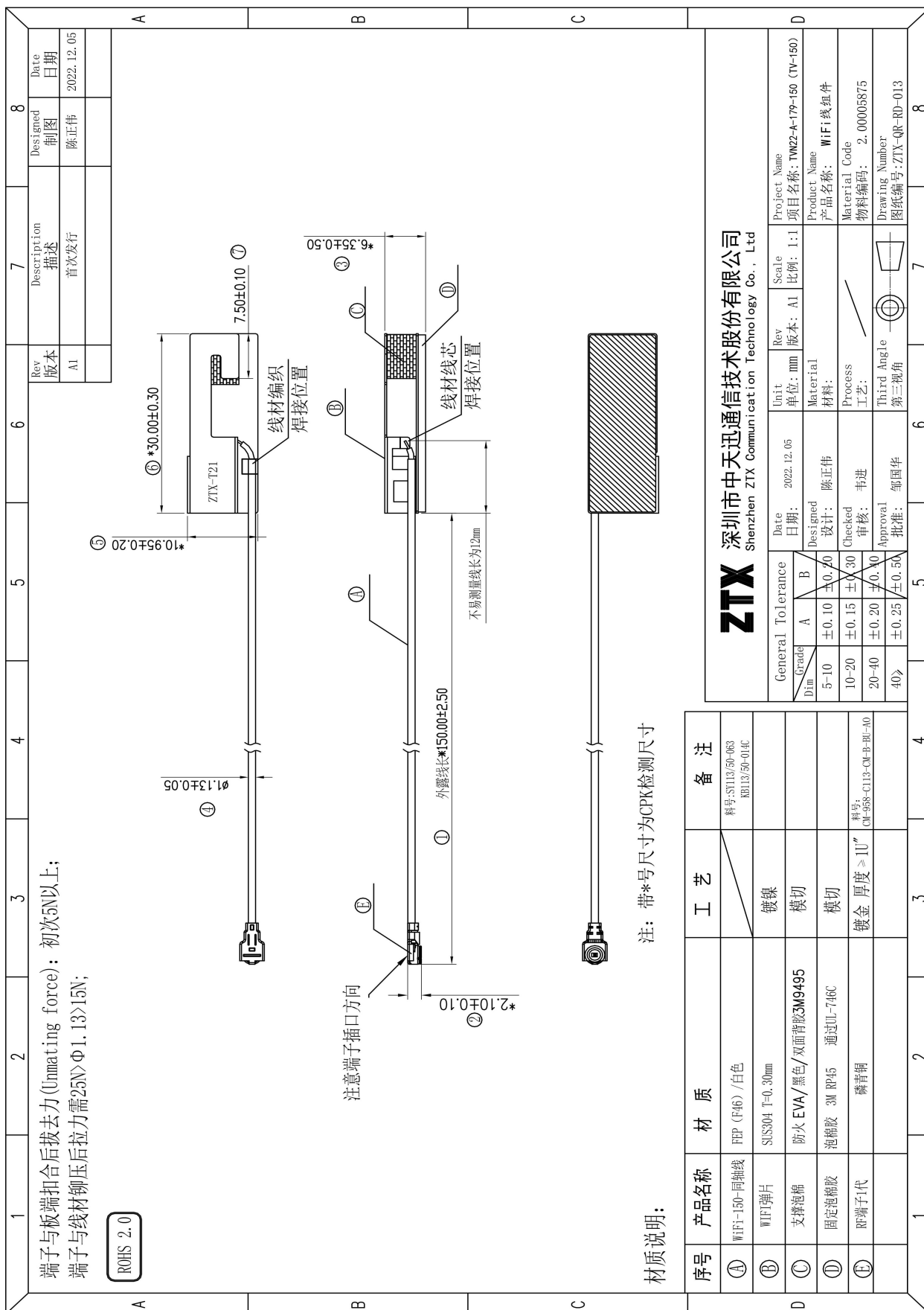
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna)



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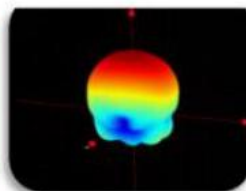
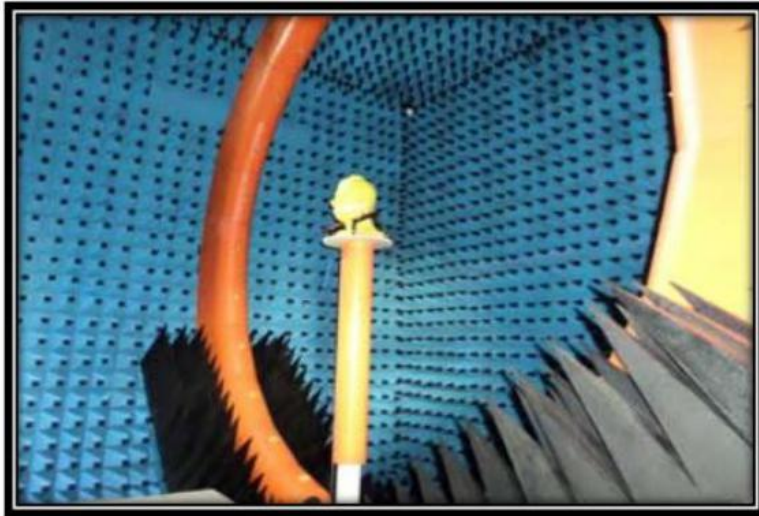
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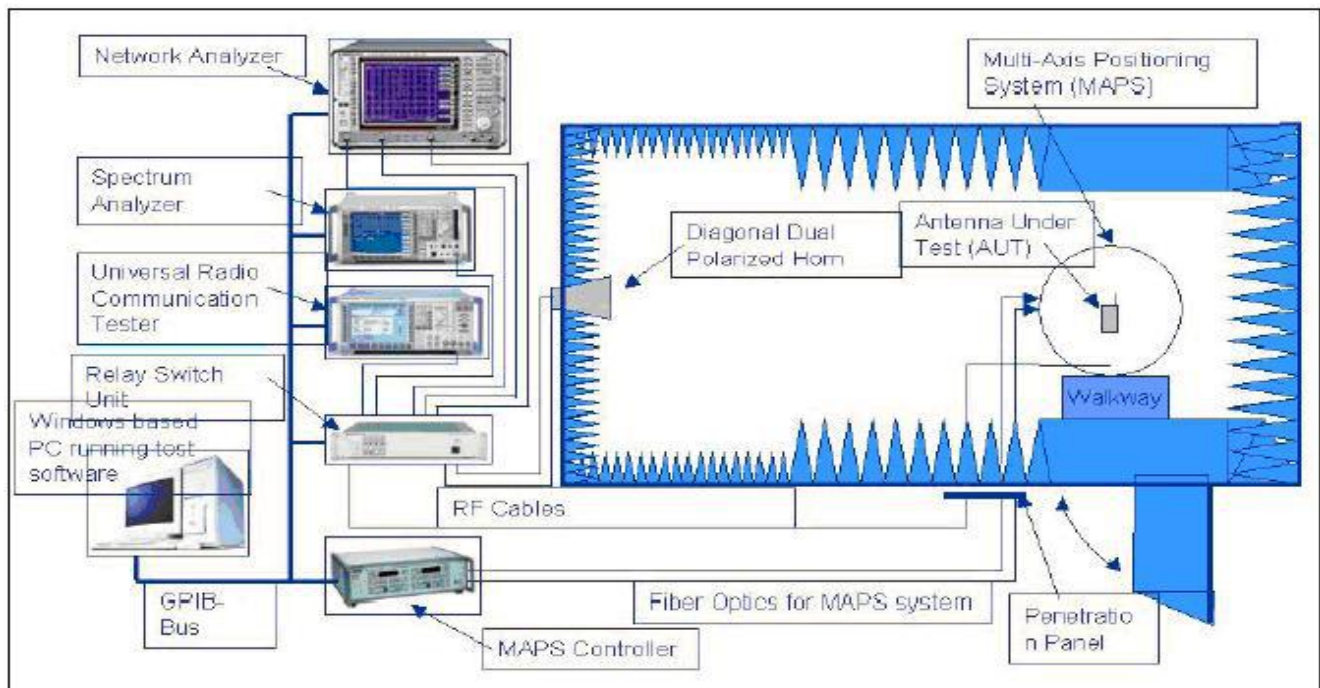
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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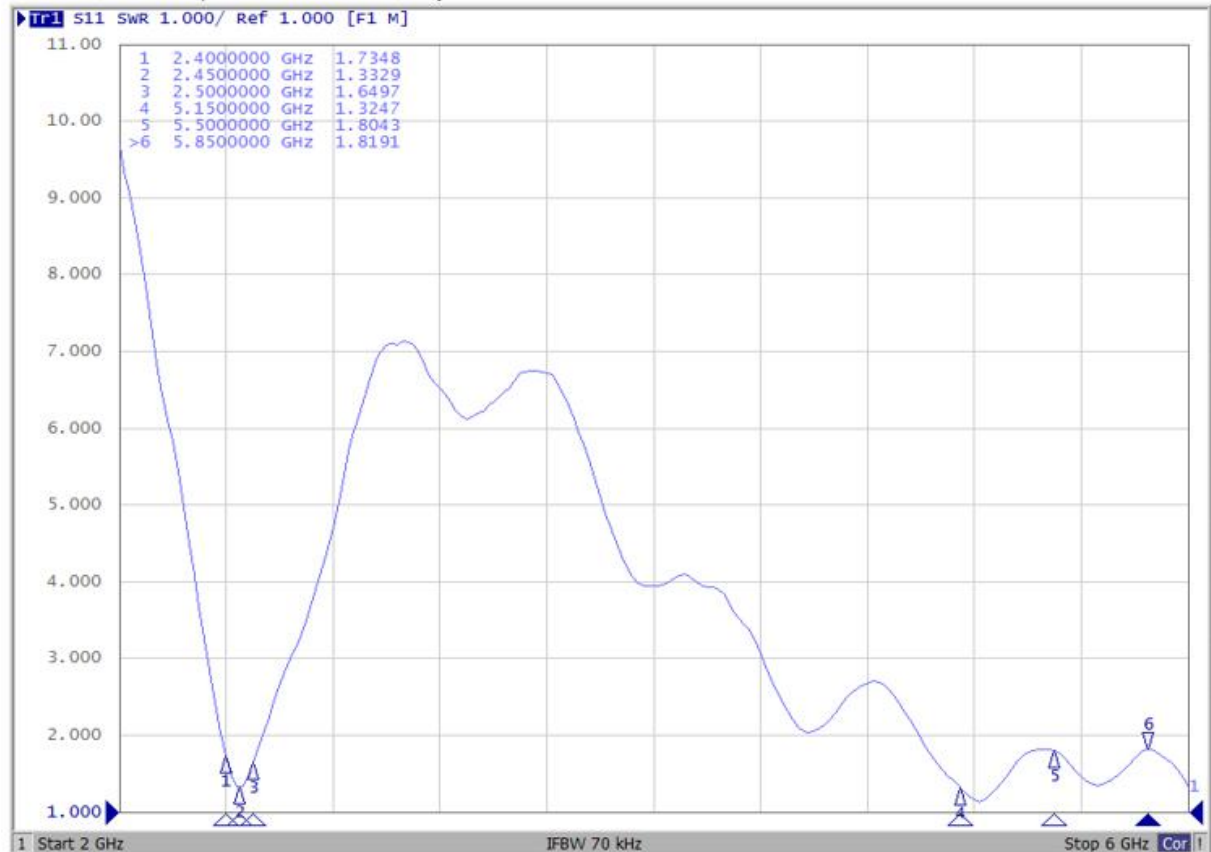
3.Antenna test data

3-1 VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850
驻波比	1.7	1.3	1.6	1.3	1.8	1.8

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



3-2 No-source test data

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	57	57	58	62	63	63
Gain (dBi)	3.2	3.3	3.3	3.4	3.5	3.5

3-3 Environment treatment

N/A

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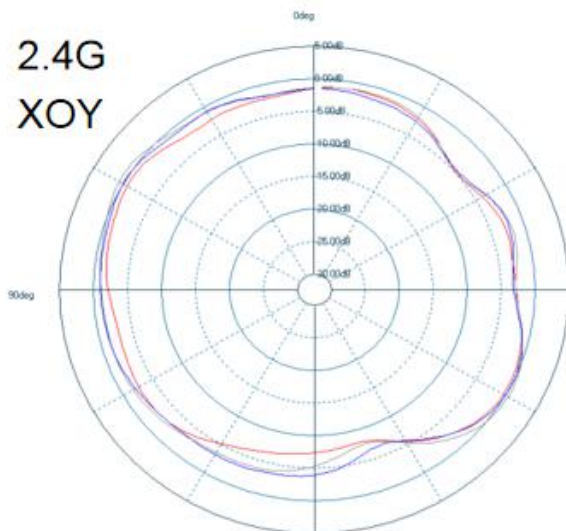
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3-4 2D/3D Radiation Pattern Results

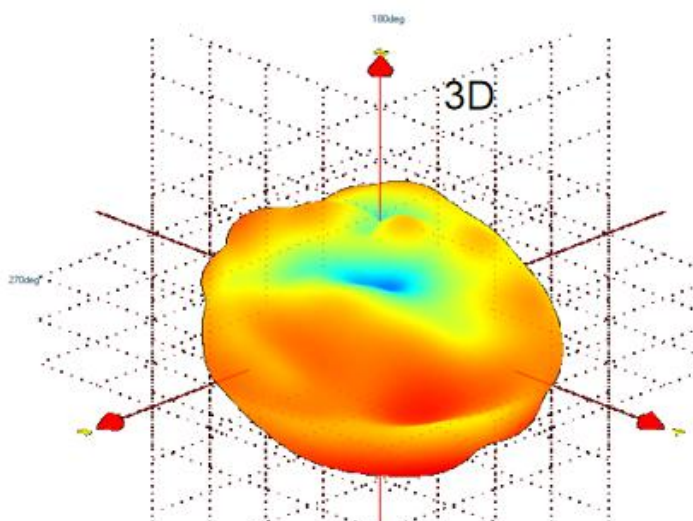
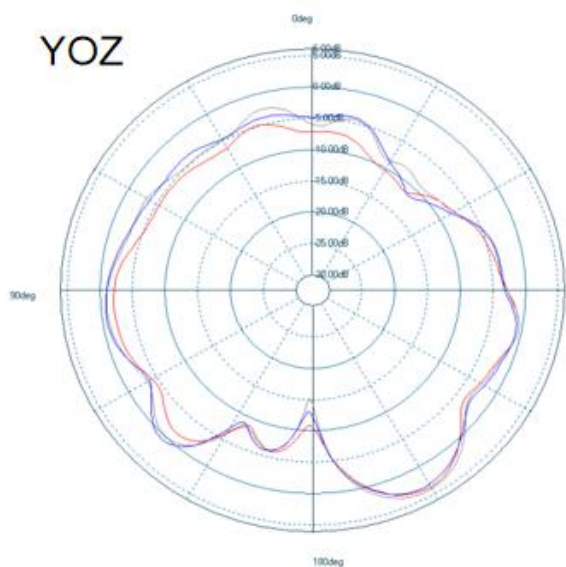
2.4G
XOY



XOZ



YOZ



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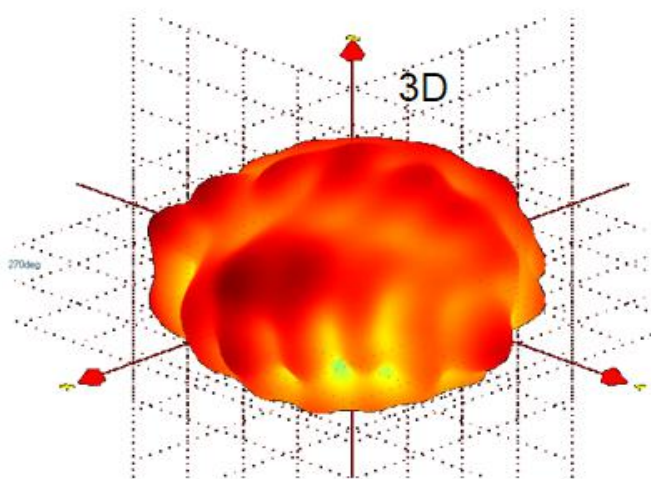
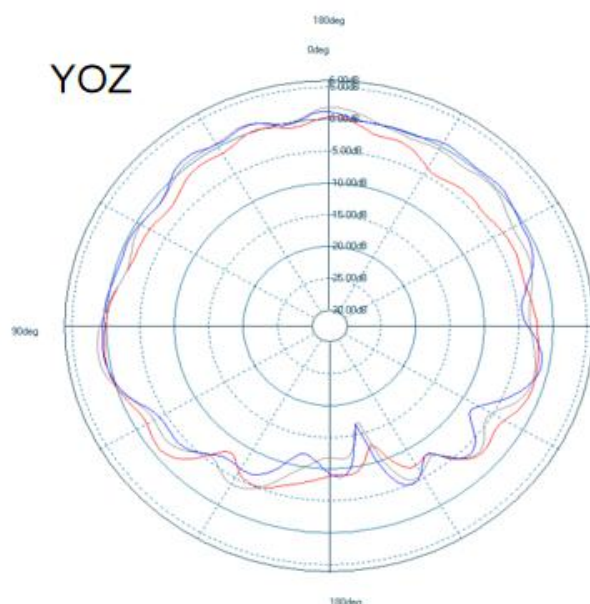
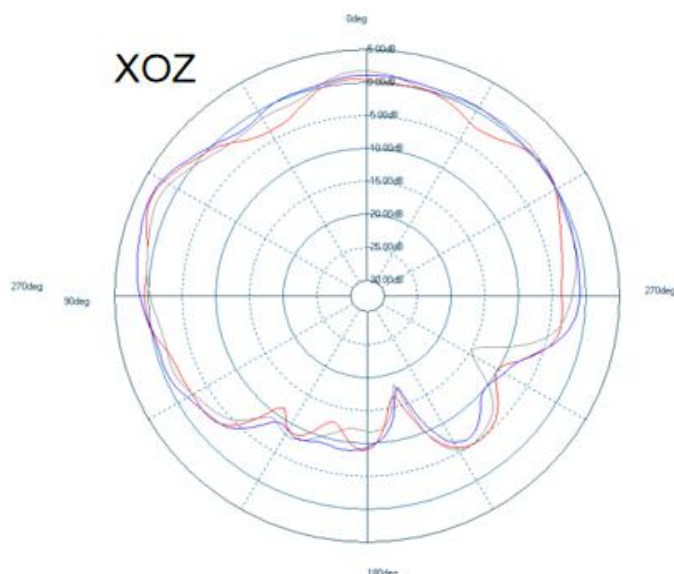
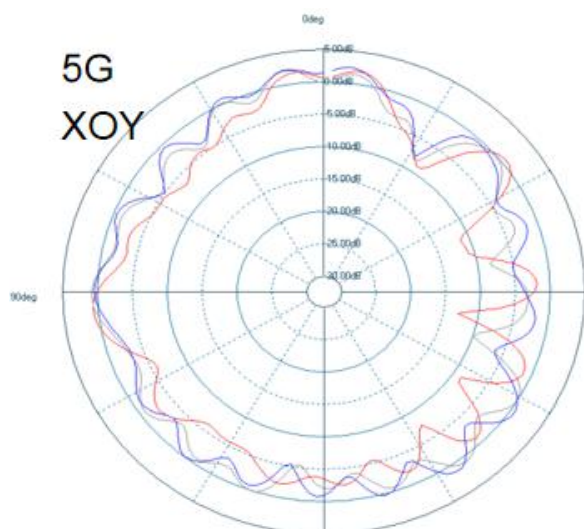
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4. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+80 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.