

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	Hesung	
	CS P/N(客户机种)	DR-HHM002S (5L Humidifier)	
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2400~2500MHz	
	ZTX NO.(物料编号)	2.00006323	
	DATE(日期)	2023-07-17	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Chang lin liu	Pei Wang	



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ANTENNA SPECIFICATION

CUS P/N :DR-HHM002S(5L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

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Revision history

Edition	Date	State
A1	2023-07-17	The first edition

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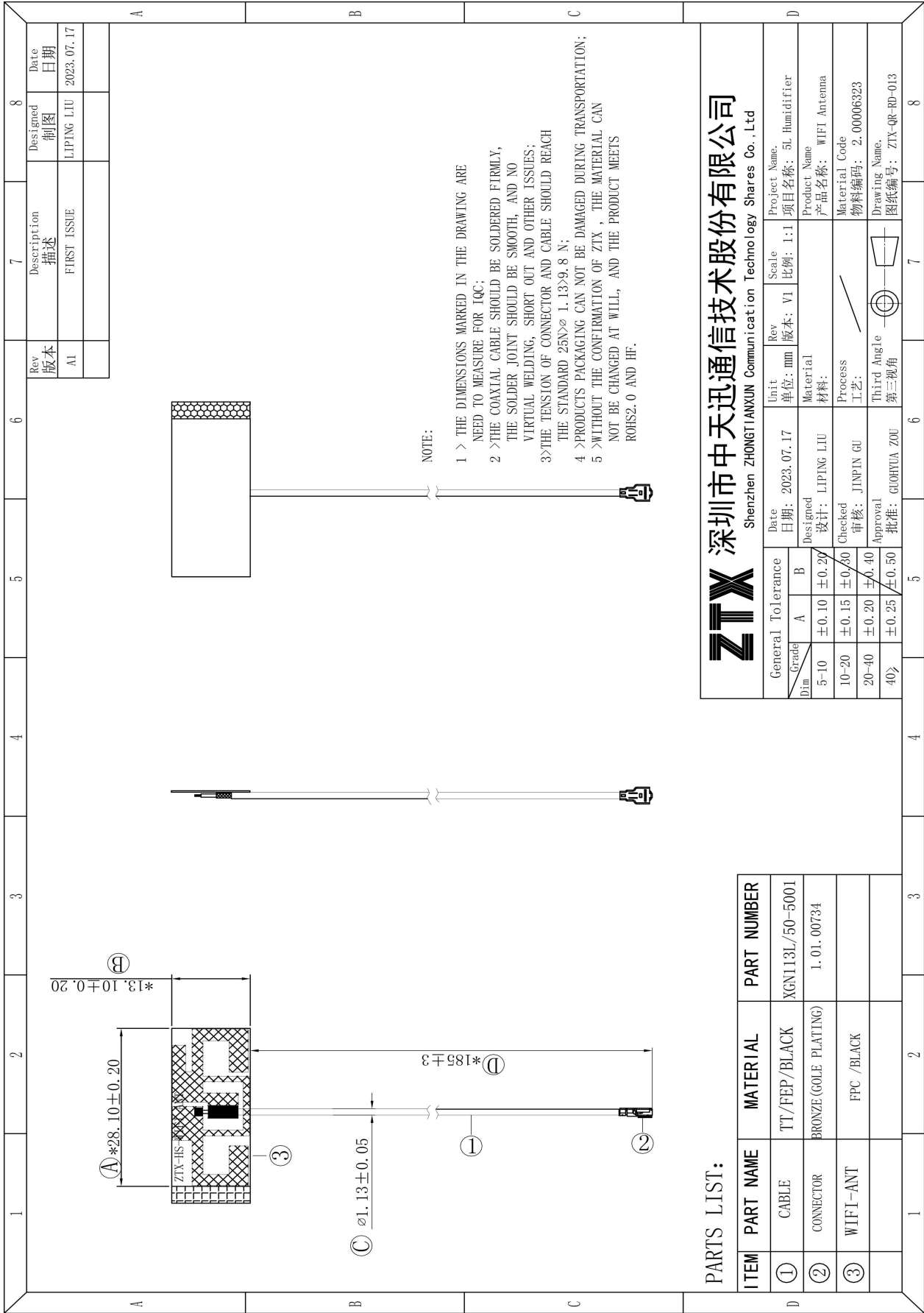
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI Antenna)



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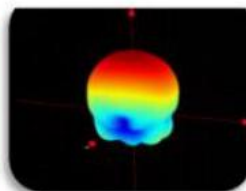
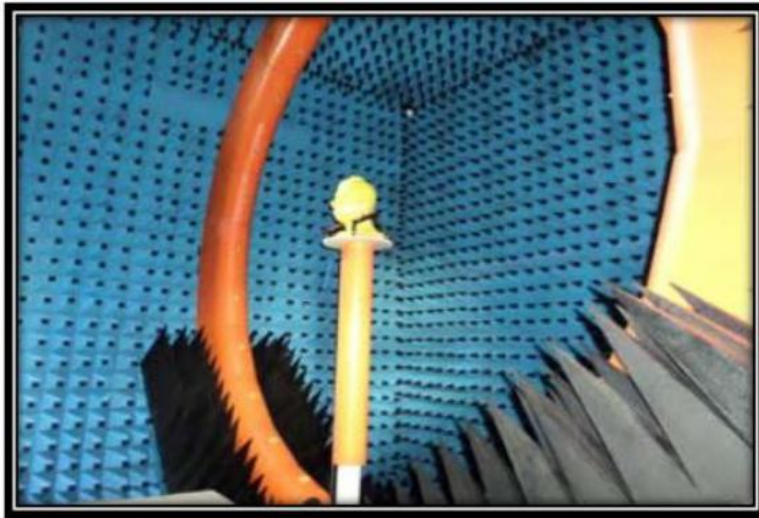
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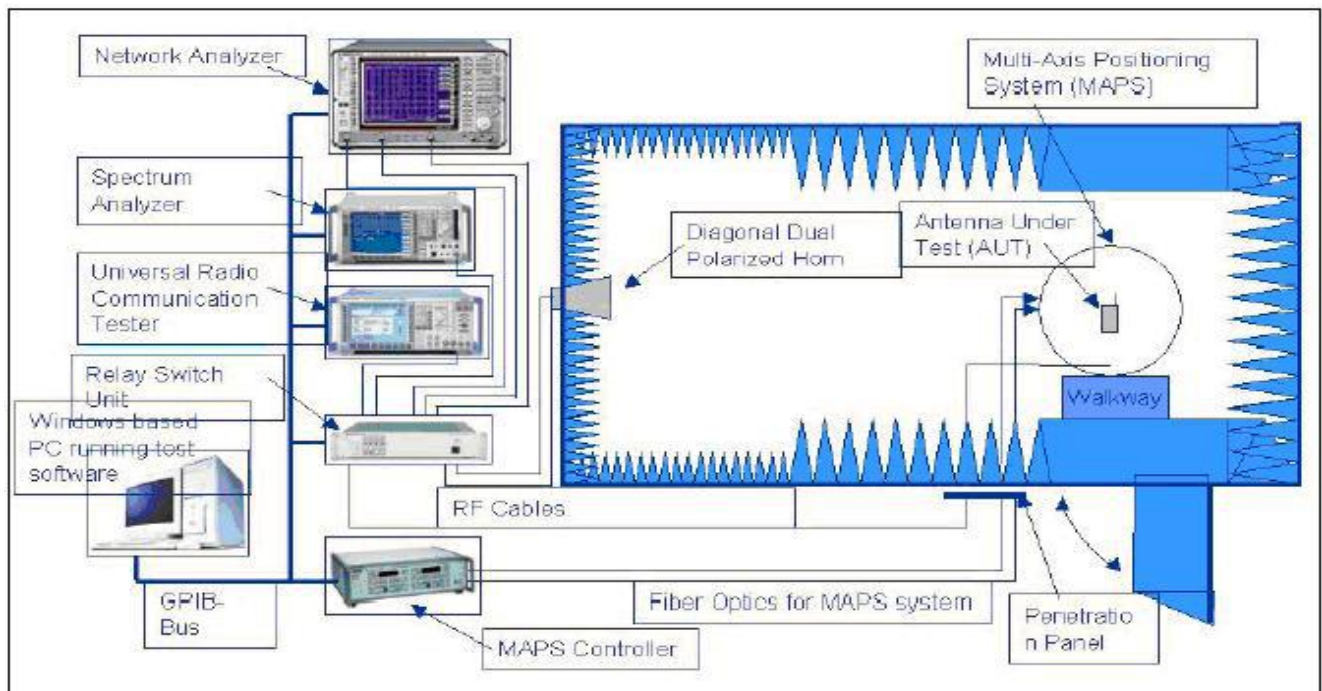
2. Test equipment



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.Test Results Summary

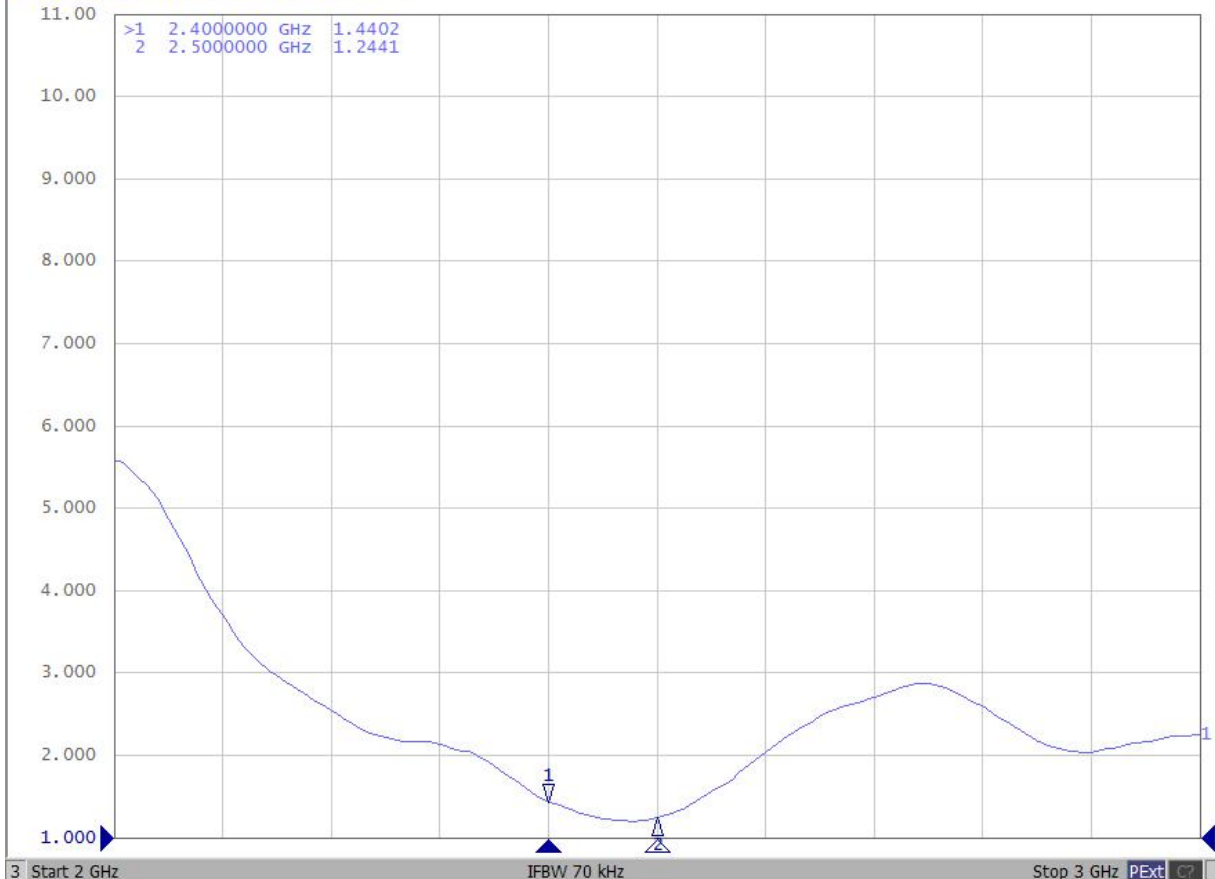
3-1 OTA Test

11b	Channels	TRP (1M)	TIS (11M)
	1	15.72	-84.53
	6	15.89	-83.96
	11	15.62	-83.67
11g	Channels	TRP (6M)	TIS (54M)
	1	13.17	-69.92
	6	13.45	-70.27
	11	13.5	-69.96
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	13.05	-64.52
	6	13.42	-64.33
	11	13.45	-63.12

3-2 VSWR

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

S22 SWR 1.000/ Ref 1.000 [F1 M]



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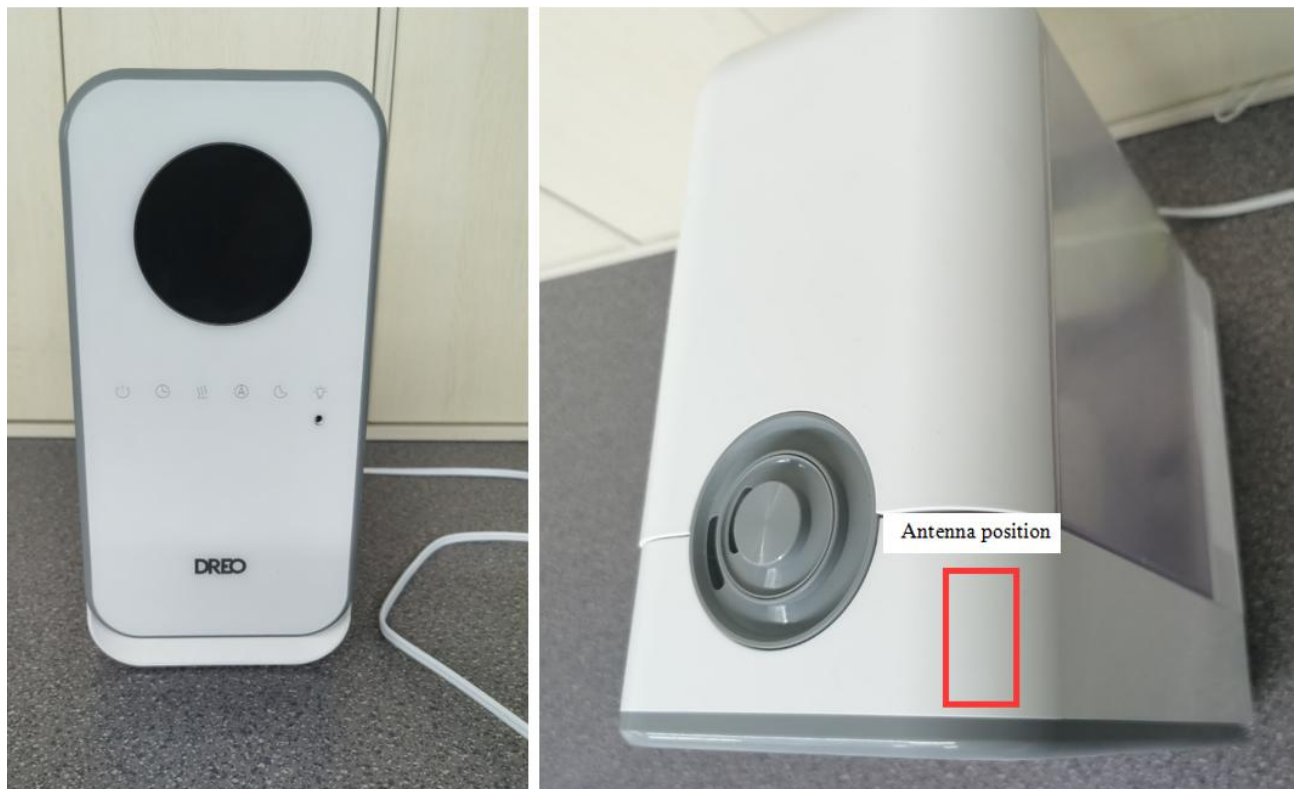
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3-3 No-source test data

Frequency	Efficiency	Efficiency (dB)	Gain (dBi)
2400MHz	56%	-2.51	3.93
2410MHz	54%	-2.64	3.85
2420MHz	58%	-2.39	3.85
2430MHz	57%	-2.41	3.83
2440MHz	60%	-2.23	3.96
2450MHz	60%	-2.21	4.01
2460MHz	61%	-2.15	4.00
2470MHz	57%	-2.41	3.89
2480MHz	56%	-2.49	3.51
2490MHz	55%	-2.56	3.29
2500MHz	55%	-2.59	3.29

3-4 Environment treatment



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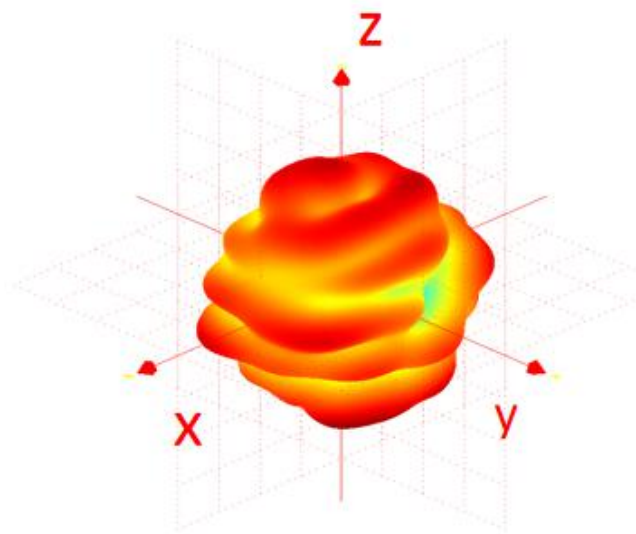
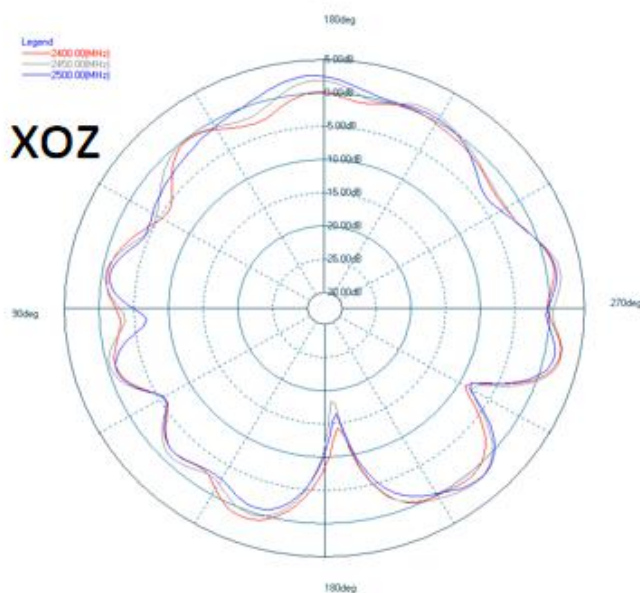
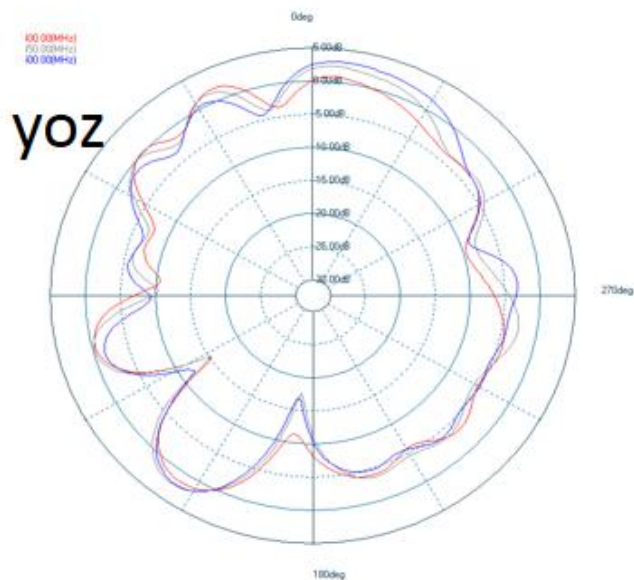
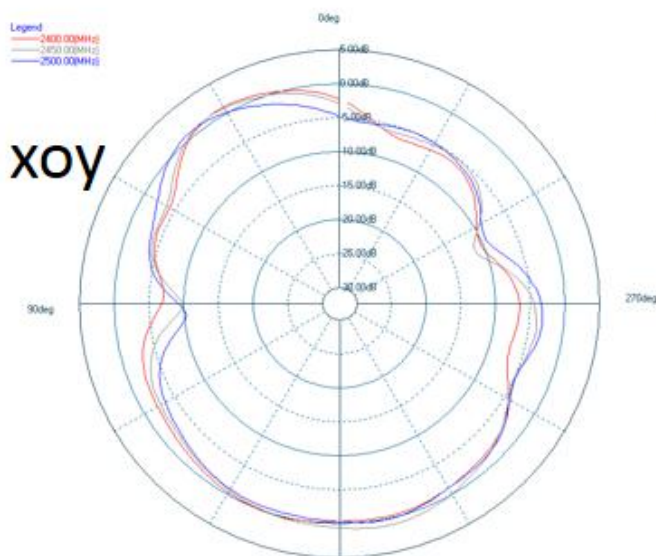
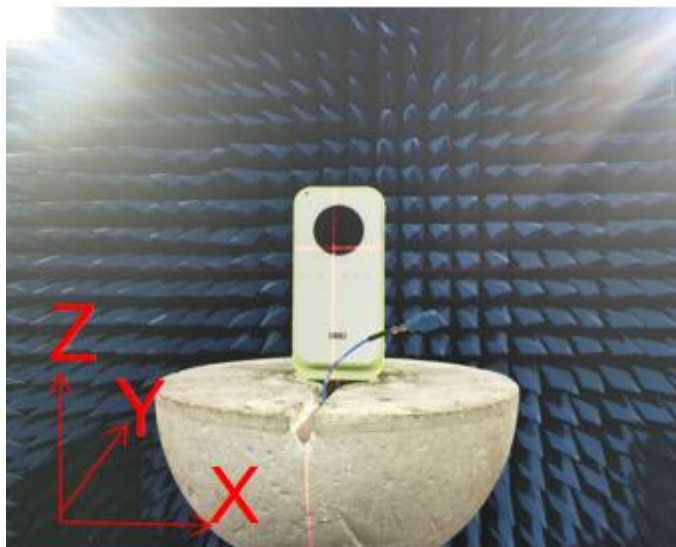
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3-5 2D/3D Radiation Pattern Results



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4.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 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.