

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Hesung
CS P/N	
TEST MODEL	DR-HHM007S
PART NAME	WIFI antenna module
FREQUENCY	2400~2500MHz
ZTX NO.	2.00001394
DATE	2024-08-05

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign:

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		柯友杰	江博厚	



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Revision history

versions	DATE	STATE
A0	2024-08-05	fi rst edi ti on

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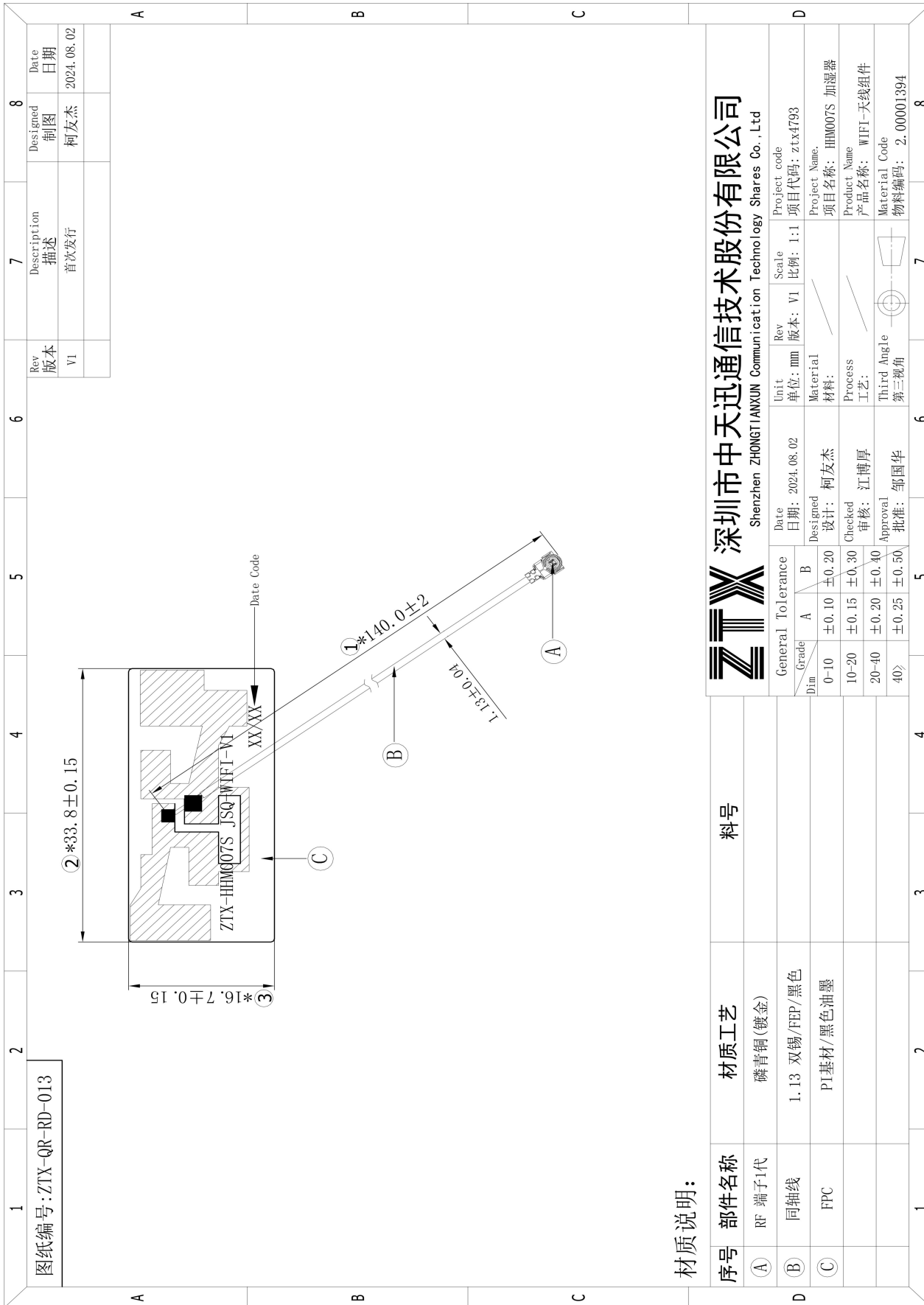
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna module)



材质说明:

序号	部件名称	材质工艺	料号
①	RF 端子1代	磷青铜(镀金)	
②	同轴线	1.13 双锡/FEP/黑色	
③	FPC	PI基材/黑色油墨	

General	Tolerance	Date	Rev	Scale	Project code
Grade	A B	日期: 2024.08.02	版本: V1	比例: 1:1	项目代码: ztx4793
Dim	0-10 ±0.10 ±0.20	Designed			项目名称: HHM007S 加湿器
	10-20 ±0.15 ±0.30	Checked			产品名称: WIFI-天线组件
	20-40 ±0.20 ±0.40	Approval			Material Code
	40> ±0.25 ±0.50	Third Angle			物料编码: 2.00001394

Unit	Rev	Scale	Project code
单位: mm	版本: V1	比例: 1:1	项目代码: ztx4793
Material			项目名称: HHM007S 加湿器
Process			产品名称: WIFI-天线组件
Third Angle			物料编码: 2.00001394

深圳市中天迅通信科技股份有限公司
Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd

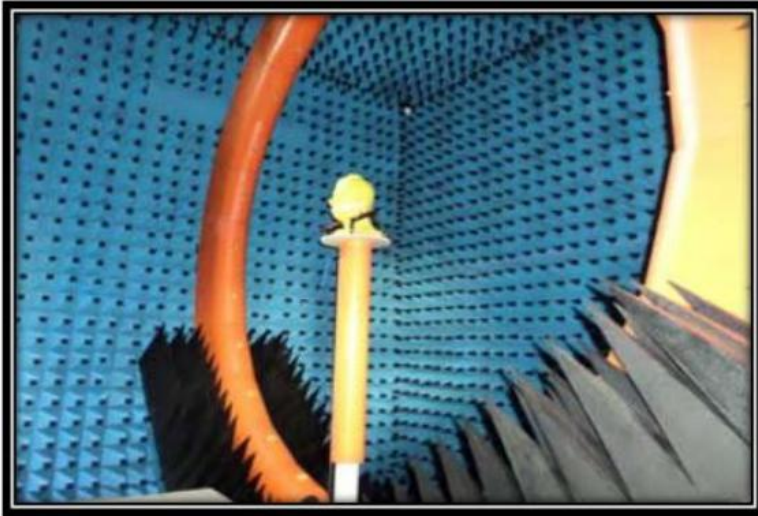
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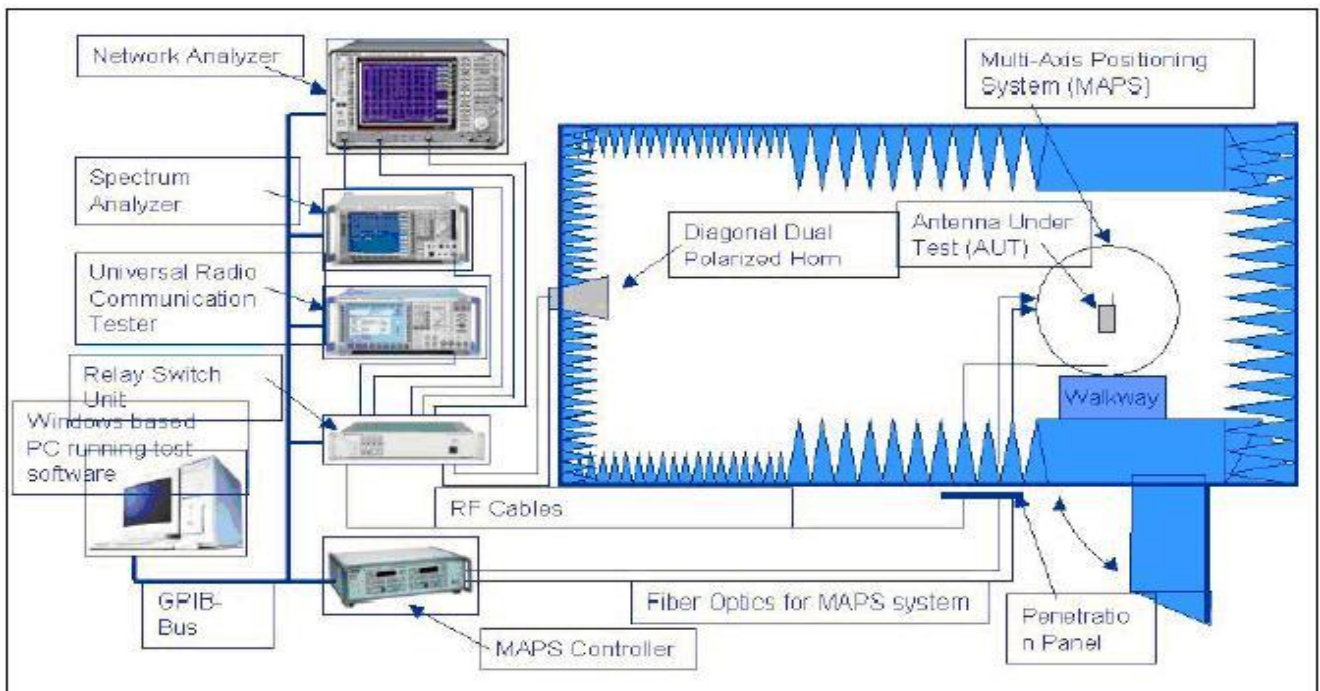
2. Test equipment



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 Active Test

50% of the water is turned on a gear humidification function			
Mode	Channels	TRP	TIS
B (11M/11M)	1	16.88	-84.83
	6	16.33	-84.75
	11	16.58	-83.87
G (6M/54M)	1	15.81	-71.07
	6	14.75	-70.43
	11	15.13	-69.68
N (MCS0/MCS7)	1	15.63	-66.26
	6	14.83	-65.91
	11	15.04	-64.90

90% of the water is turned on a gear humidification function			
Mode	Channels	TRP	TIS
B (11M/11M)	1	16.07	-84.36
	6	15.40	-83.90
	11	15.98	-83.35
G (6M/54M)	1	14.81	-70.52
	6	13.85	-70.03
	11	14.30	-69.11
N (MCS0/MCS7)	1	14.66	-65.77
	6	13.87	-65.29
	11	14.39	-64.82

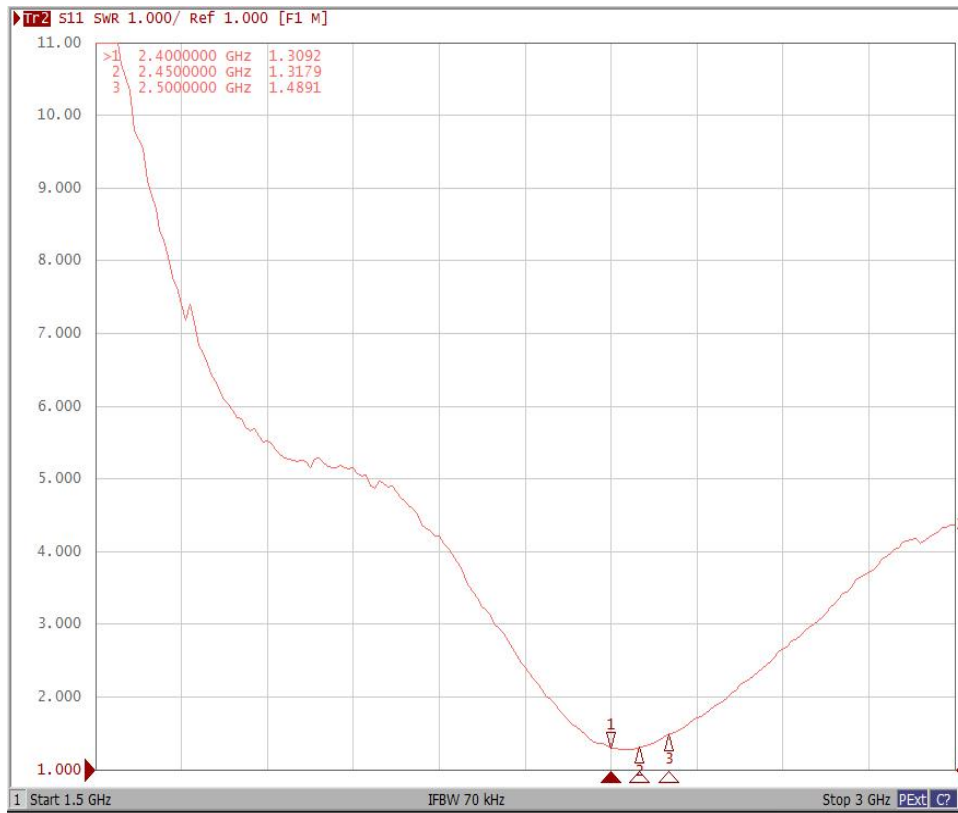
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3-2 VSWR



3-3 No-source test data

Frequency	Efficiency	Gain . dB
2400MHz	61%	3.92
2410MHz	60%	3.90
2420MHz	61%	3.78
2430MHz	62%	3.56
2440MHz	62%	3.31
2450MHz	61%	3.03
2460MHz	61%	2.94
2470MHz	61%	2.85
2480MHz	60%	2.56
2490MHz	61%	2.49
2500MHz	60%	2.53

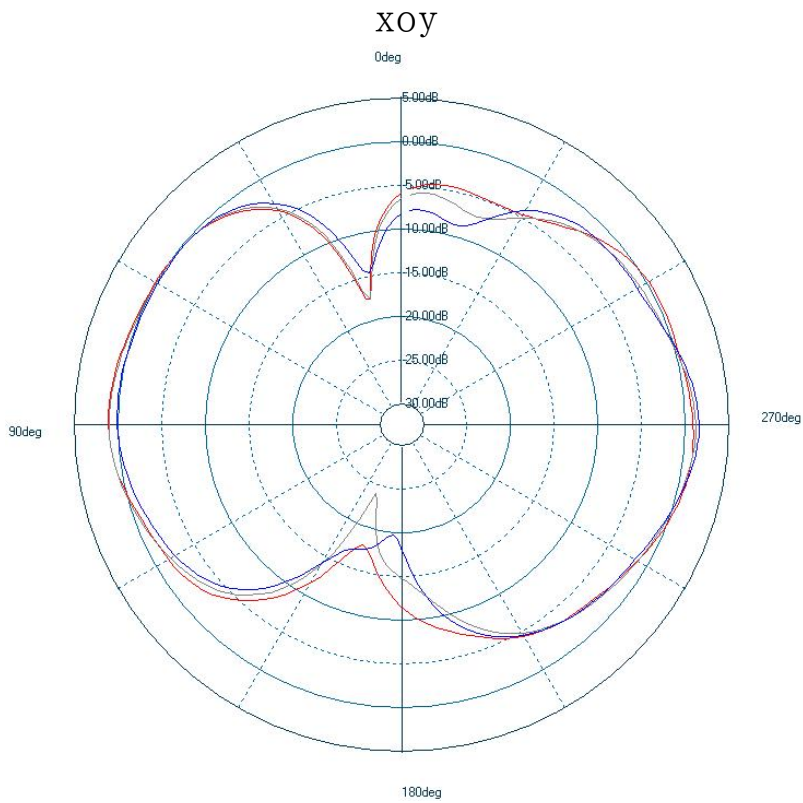
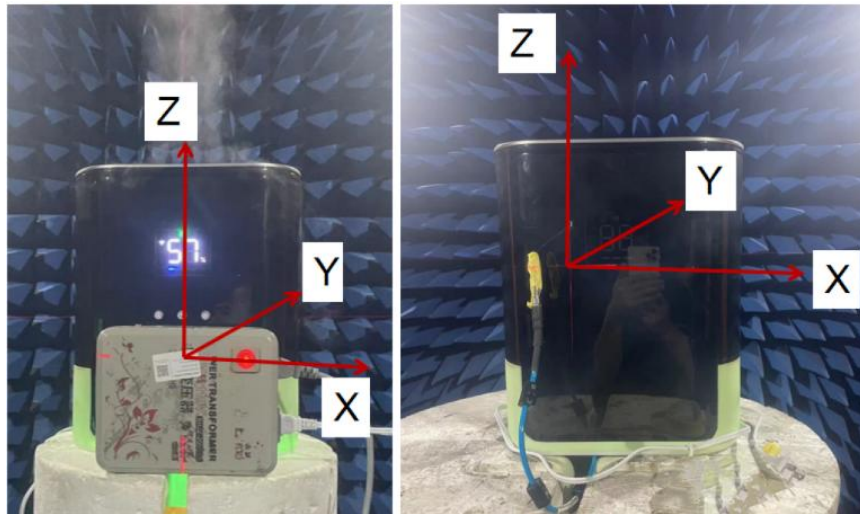
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3-4 2D/3D Radiation Pattern Results

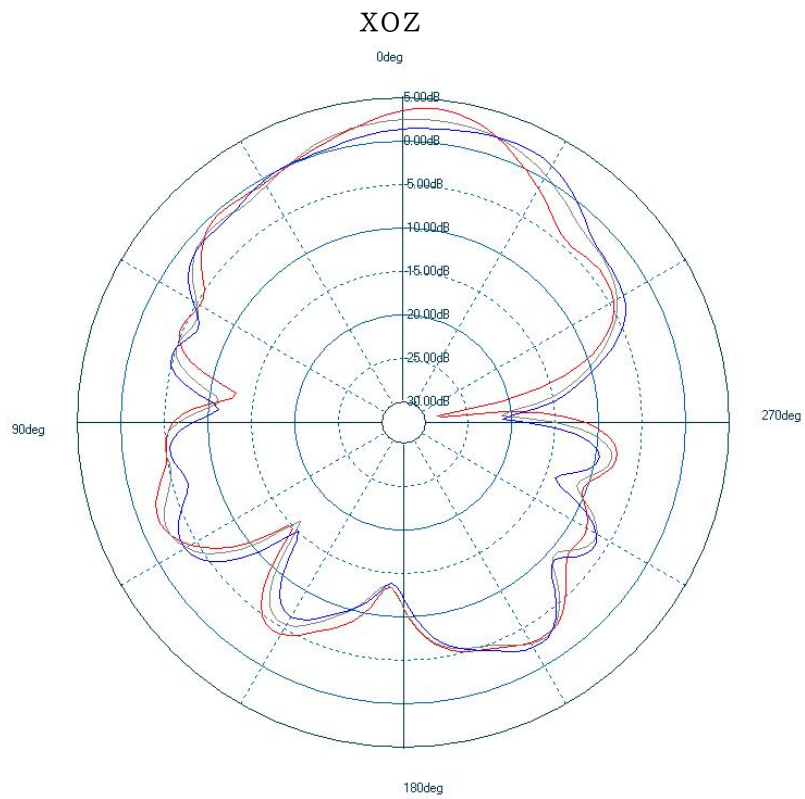
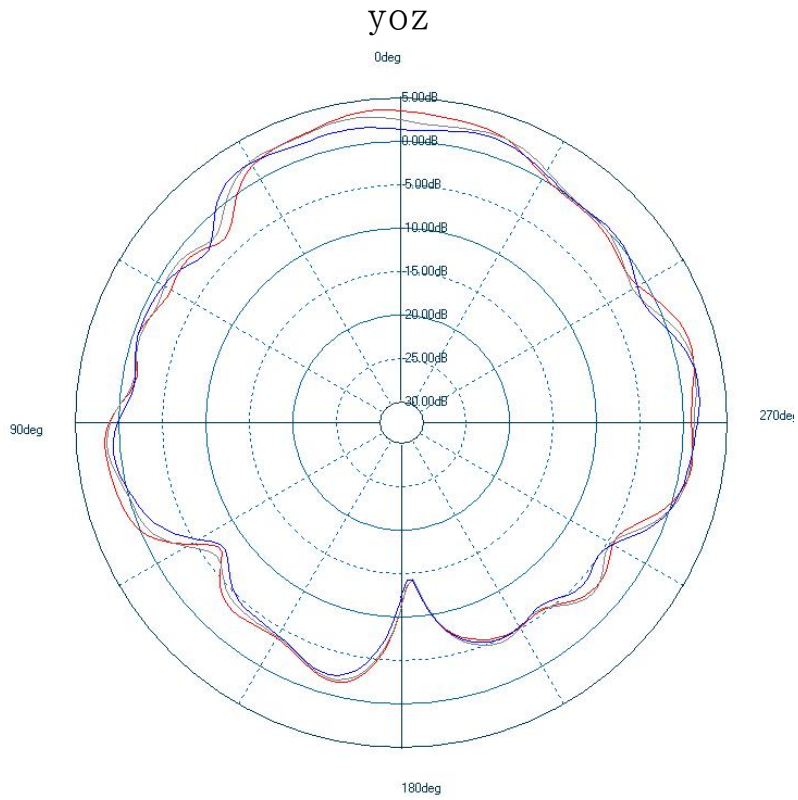


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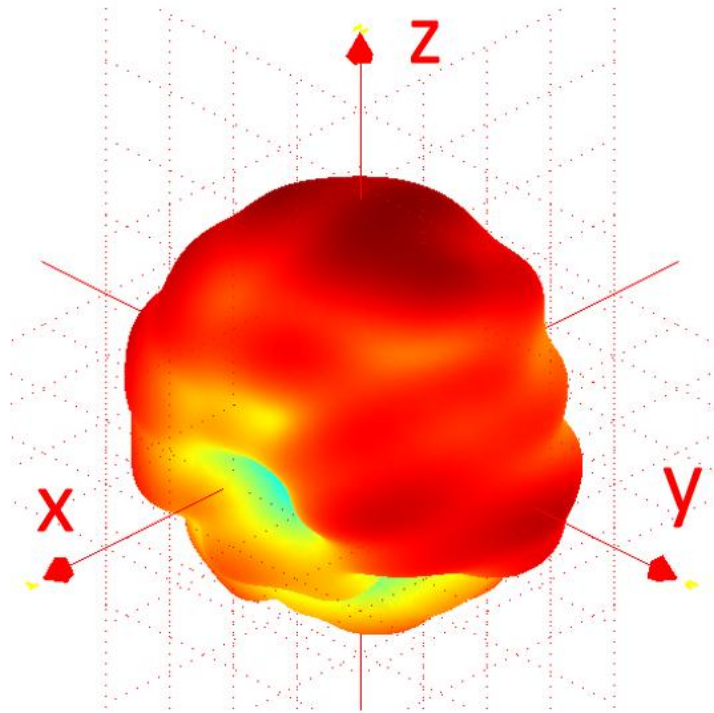


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3-5 Environmental treatment

2400-2500MHz
Antenna position

