

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Anker
CS P/N	T87A01
PART NAME	WIFI Antenna components
FREQUENCY	2400~2500/5150~5850MHz
CUS NO.	
ZTX NO.	2.00000962
DATE	2024/7/8

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
		Le. Qin	Gang. Liu	



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Revision history

Edition	Date	state
A0	2024/7/8	First edition

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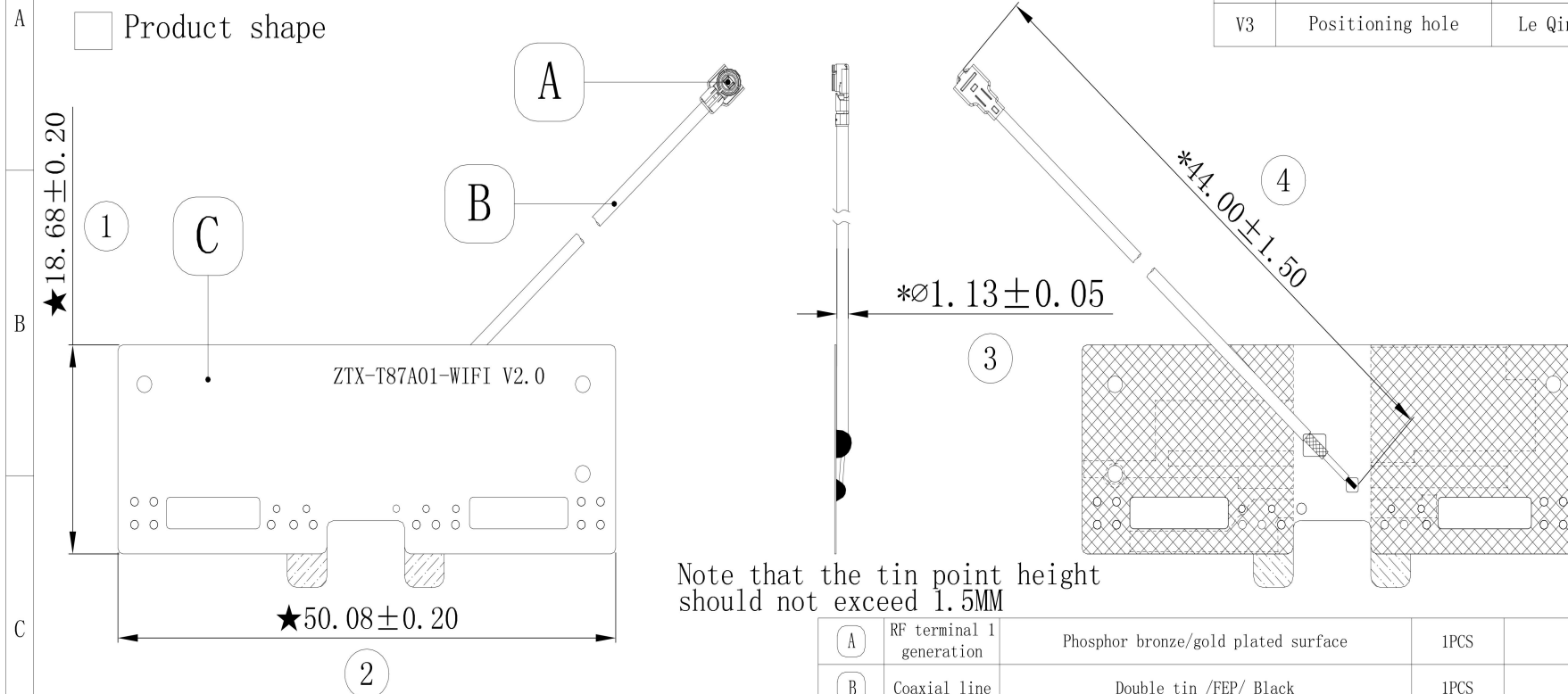
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Drawing number:ZTX-QR-RD-013

 Copper foil

 Product shape

Rev	Description	Designed	Date
V1	Initial issue	Le Qin	2024.03.13
V2	Adjusting wrench	Le Qin	2024.05.16
V3	Positioning hole	Le Qin	2024.07.05



Note that the tin point height should not exceed 1.5MM

Technical requirements:

1. The size with "*" is the key size for the shipment must be measured; The size with "★" is CPK controlled size;
2. No tolerance is controlled by reference to the tolerance table in the drawing frame;
3. the shape should be blanked smooth and smooth, and can not be blanked to the internal line;
4. the surface of the product can not have stains, wrinkles, copper exposure and other bad problems;
5. the solder point should be full (the tin point must be completely covered by the pad), there should be no virtual welding, false welding, pull tip and other bad;
6. the ink surface needs to pass the test requirements;
7. all materials should meet the requirements of ROHS2.0/Reach;
8. packaging :PE bag shipment;
9. without the confirmation of ZTX company, the material can not be changed at will.

A	RF terminal 1 generation	Phosphor bronze/gold plated surface	1PCS	/
B	Coaxial line	Double tin /FEP/ Black	1PCS	/
C	FPC antenna	Single panel electrolytic copper/one-half/pad OSP	1PCS	black
Serial number	Material name	Material description	dosage	remark

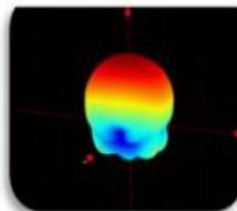
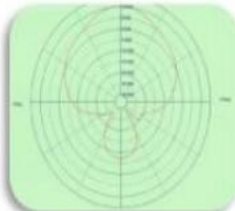
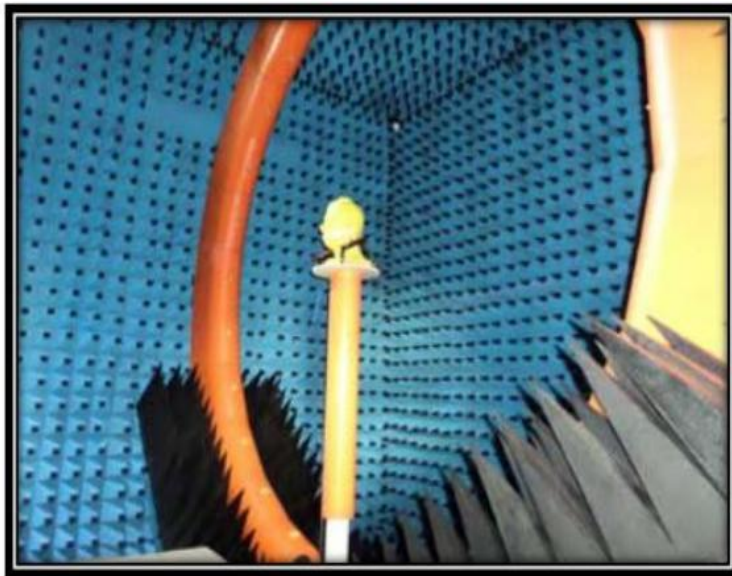


深圳市中天迅通信技术有限公司

Shenzhen ZTX Communication Technology Co., Ltd

General Tolerance			Date	Unit	Rev	Scale	Project Code
Dim			日期: 2024.07.05	单位: mm	版本: V3	比例: 1:1	项目代码: ztx4267
Grade	A	B	Designed	Material	Project Name		
0-10	±0.10	±0.20	设计: Le Qin	材料:	项目名称: T87A01		
10-20	±0.15	±0.30	Checked	Process	Product Name		
20-40	±0.20	±0.40	审核: Gang Liu	工艺:	产品名称: WIFI antenna_Components		
40≥	±0.25	±0.50	Approval	Third Angle	Material Code		
			批准: Guohua Zou	第三视角	物料编码: 2.00000962		

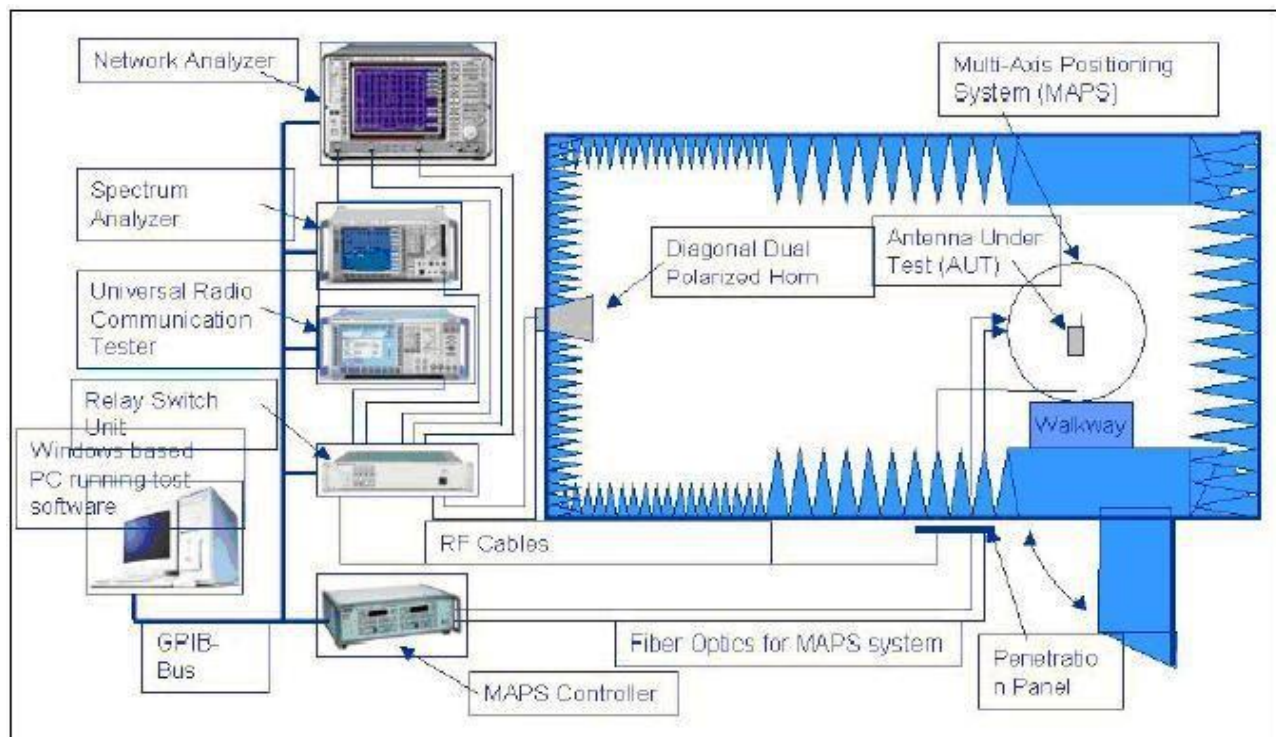
2. Test equipment



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.

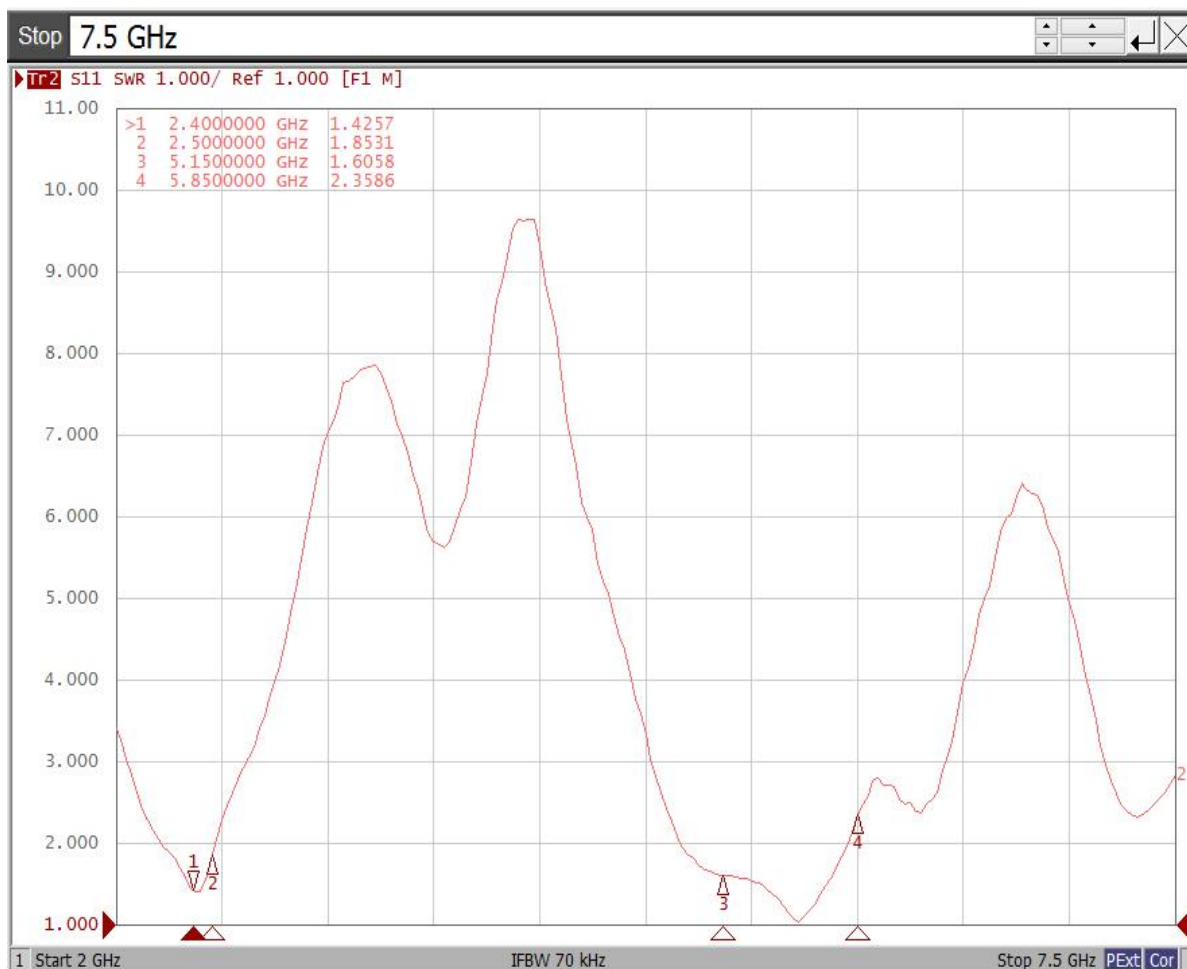
Testing range:

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



3. Test Results Summary

3-1 VSWR

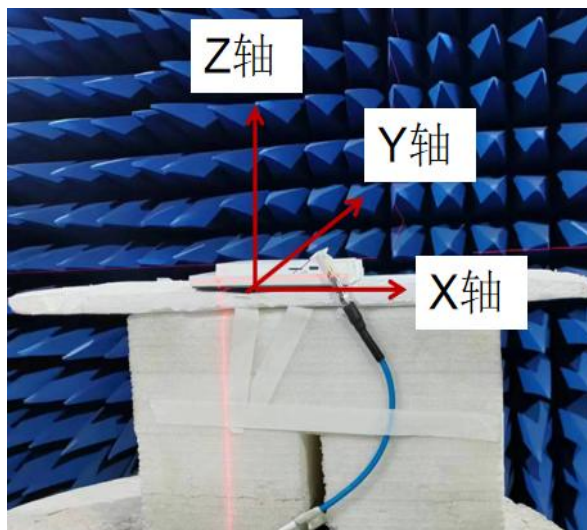


3-2 Passive Test

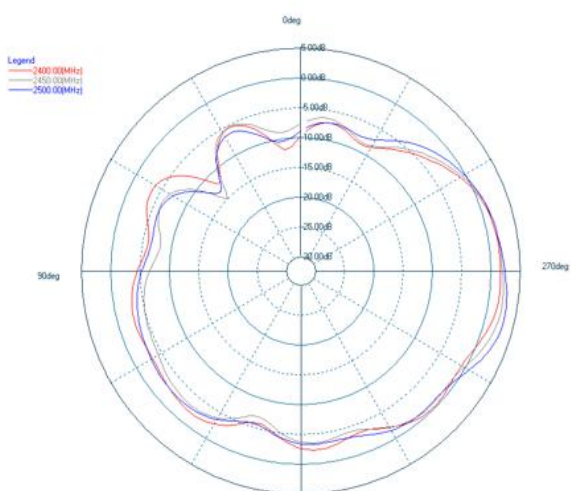
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dB)
2400	55%	-2.61	2.45
2410	53%	-2.73	2.79
2420	56%	-2.53	2.95
2430	55%	-2.63	3.16
2440	55%	-2.57	2.99
2450	55%	-2.59	3.42
2460	54%	-2.66	3.22
2470	50%	-3.01	3.42
2480	50%	-3.04	3.83
2490	50%	-3.01	3.84
2500	50%	-3.01	4.07

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dB)
5150	40%	-3.97	4.33
5200	43%	-3.71	3.84
5250	43%	-3.69	3.65
5300	43%	-3.62	3.71
5350	39%	-4.09	3.96
5400	41%	-3.91	3.58
5450	43%	-3.71	3.72
5500	41%	-3.86	3.53
5550	43%	-3.65	3.17
5600	43%	-3.68	2.84
5650	41%	-3.86	3.22
5700	42%	-3.82	3.01
5750	42%	-3.80	3.25
5800	41%	-3.82	2.68
5850	43%	-3.63	2.67

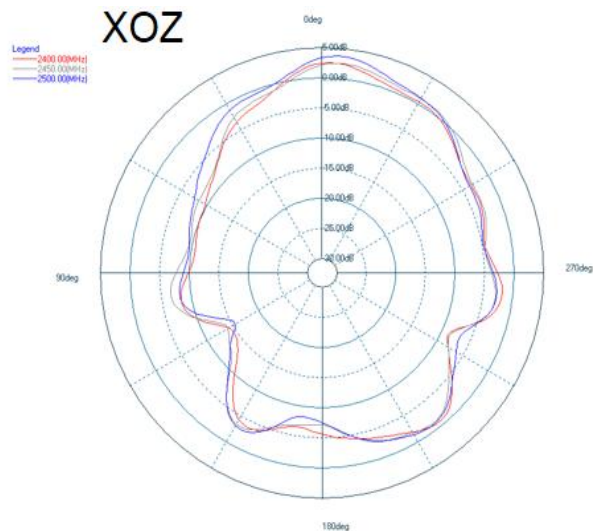
3-3 2D/3D Radiation Pattern Results



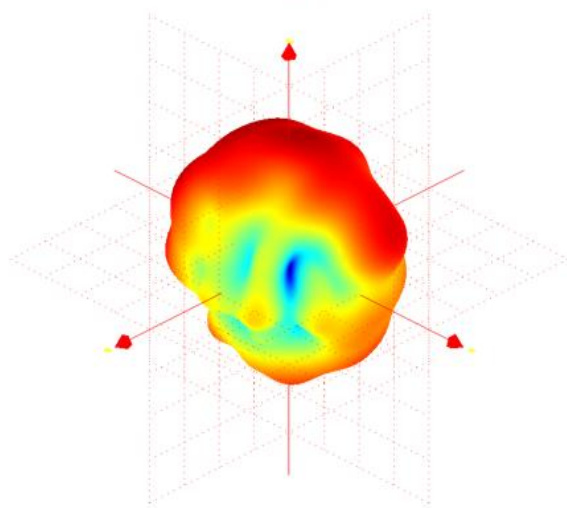
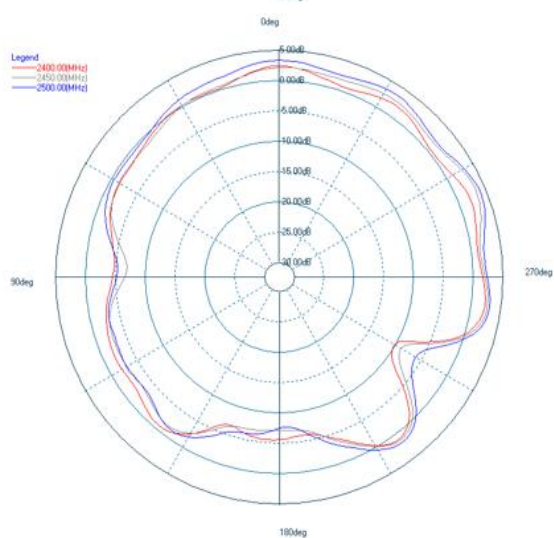
**2.4G
XOY**



XOZ

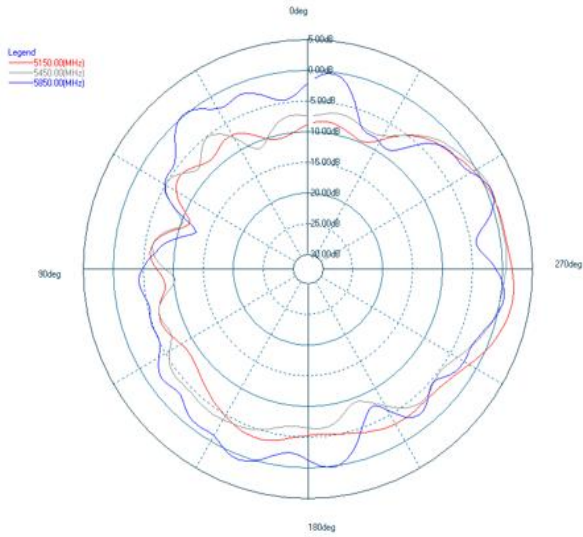


YOZ

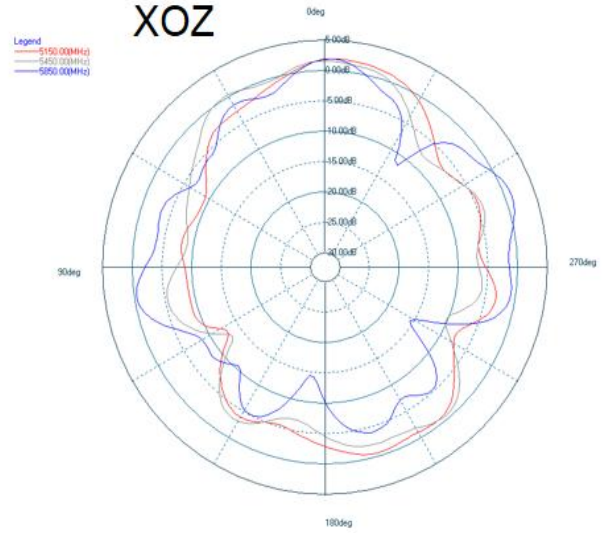




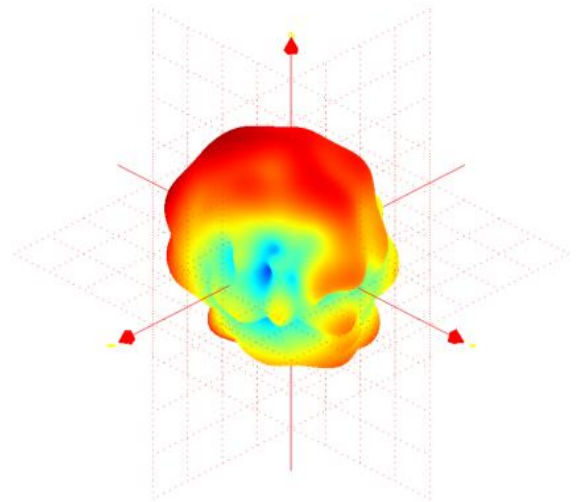
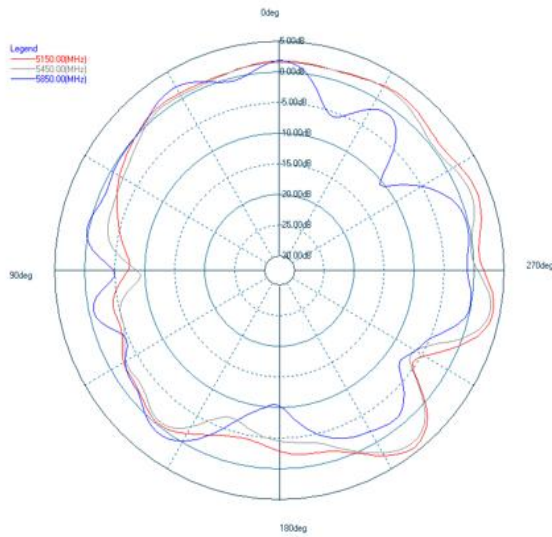
5G
XOY



XOZ



YOZ



3-4 Environment treatment

antenna position

