

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	ZKTECO CO.,LTD.
CS P/N(客户机种)	Nface138
PART NAME(品名)	WIFI antenna
FREQUENCY(频率)	2.4~2.5GHz/5.15~5.85GHz
CUS NO.(物料编号)	L03010629
CUS MS.(物料规格)	32.0mm*8.2mm LENGTH 线长160 ± 3.0mm(黑色) RoHS
ZTX NO.(物料编号)	2.00006247
DATE(日期)	2023/9/19


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	ME CHECKED	RF CHECKED	LISTER
			



Shenzhen ZTX Communication Technology Co., Ltd

地址: 深圳市宝安区石岩镇石龙大道34号(腾达工业园)

邮编: 518000

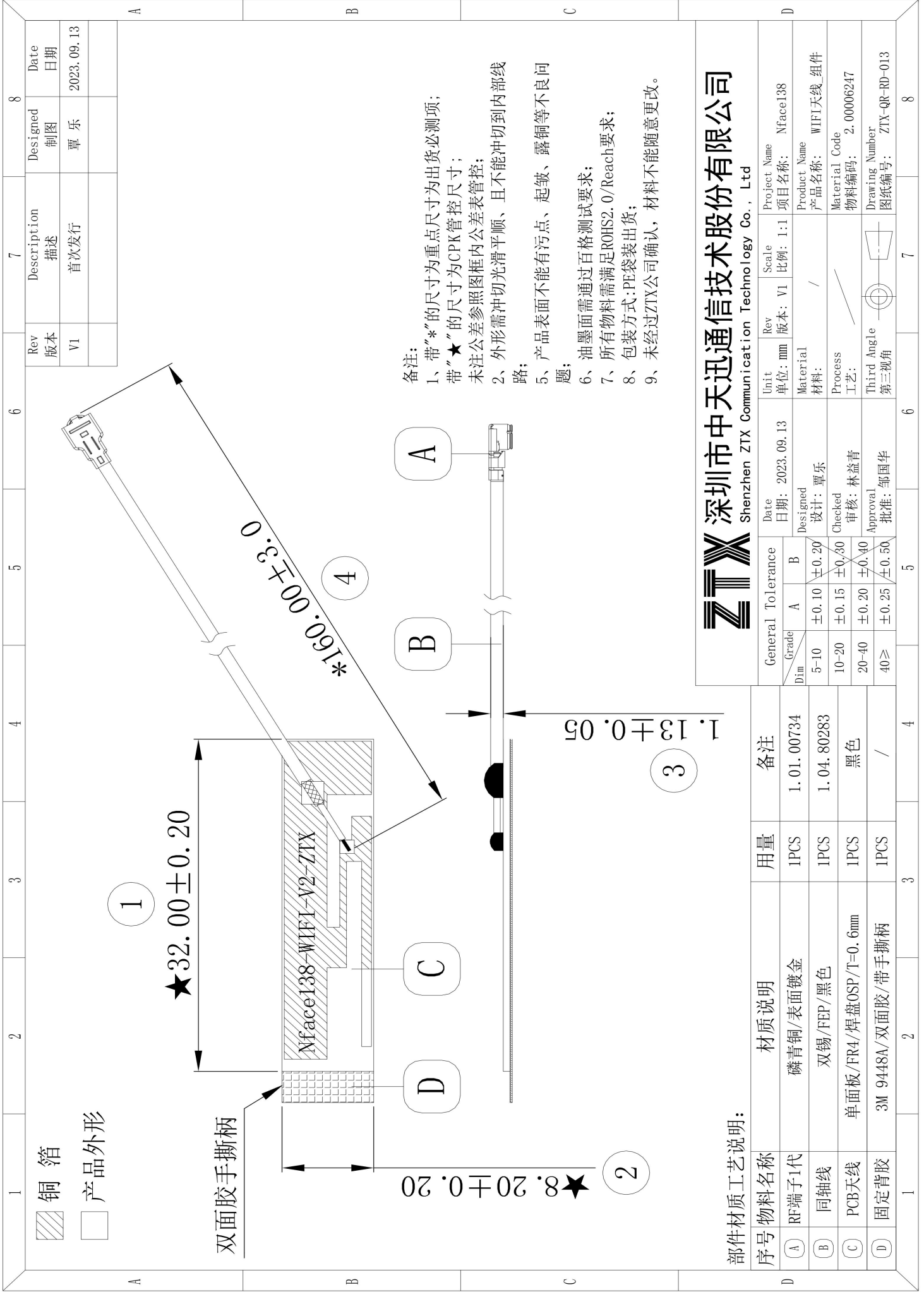
电话: 0755-27588320

传真: 0755-27588045

http://www.chinaztx.com

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Rev 版本	Description 描述	Designed 制图	Date 日期
V1	首次发行	覃乐	2023.09.13

- 备注:
- 带"*"的尺寸为重点尺寸为出货必测项;
 - 带"★"的尺寸为CPK管控尺寸;
 - 未注公差参照图框内公差表管控;
 - 外形需冲切光滑平顺、且不能冲切到内部线路;
 - 产品表面不能有污点、起皱、露铜等不良问题;
 - 油墨面需通过百格测试要求;
 - 所有物料需满足ROHS2.0/Reach要求;
 - 包装方式:PE袋装出货;
 - 未经过ZTX公司确认,材料不能随意更改。

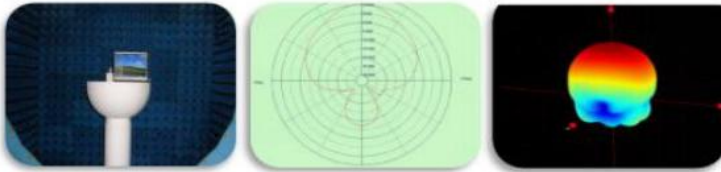
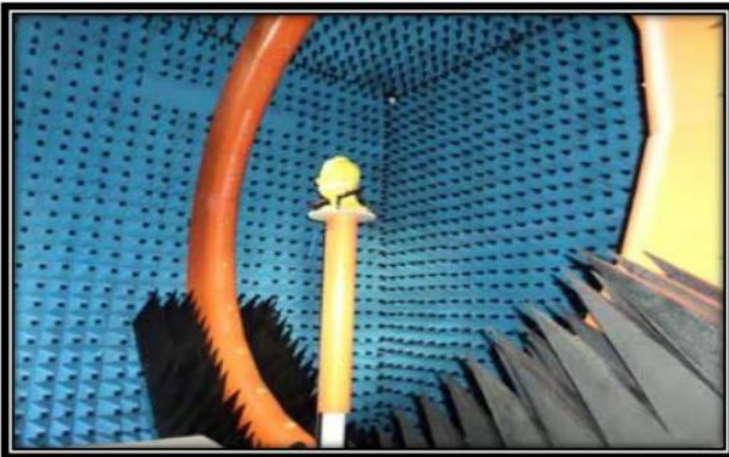
General	Tolerance	Date	Rev	Scale	Project Name
Grade	A B	2023.09.13	版本: V1	比例: 1:1	Nface138
Dim	5-10 ±0.10 ±0.20	Designed	Material	Product Name	Product Name
	10-20 ±0.15 ±0.30	设计: 覃乐	Process	WIFI天线_组件	WIFI天线_组件
	20-40 ±0.20 ±0.40	Checked	Material Code	2.00006247	2.00006247
	40≥ ±0.25 ±0.50	审核: 林益青	Third Angle	Drawing Number	ZTX-QR-RD-013
		Approval	Third Angle	图纸编号:	ZTX-QR-RD-013
		批准: 邹国华	第三视角		

序号	物料名称	材质说明	用量	备注
A	RF端子1代	磷青铜/表面镀金	1PCS	1.01.00734
B	同轴线	双锡/FEP/黑色	1PCS	1.04.80283
C	PCB天线	单面板/FR4/焊盘OSP/T=0.6mm	1PCS	黑色
D	固定背胶	3M 9448A/双面胶/带手撕柄	1PCS	/

部件材质工艺说明:

ZTX 深圳市中天迅通信技术股份有限公司
Shenzhen ZTX Communication Technology Co., Ltd

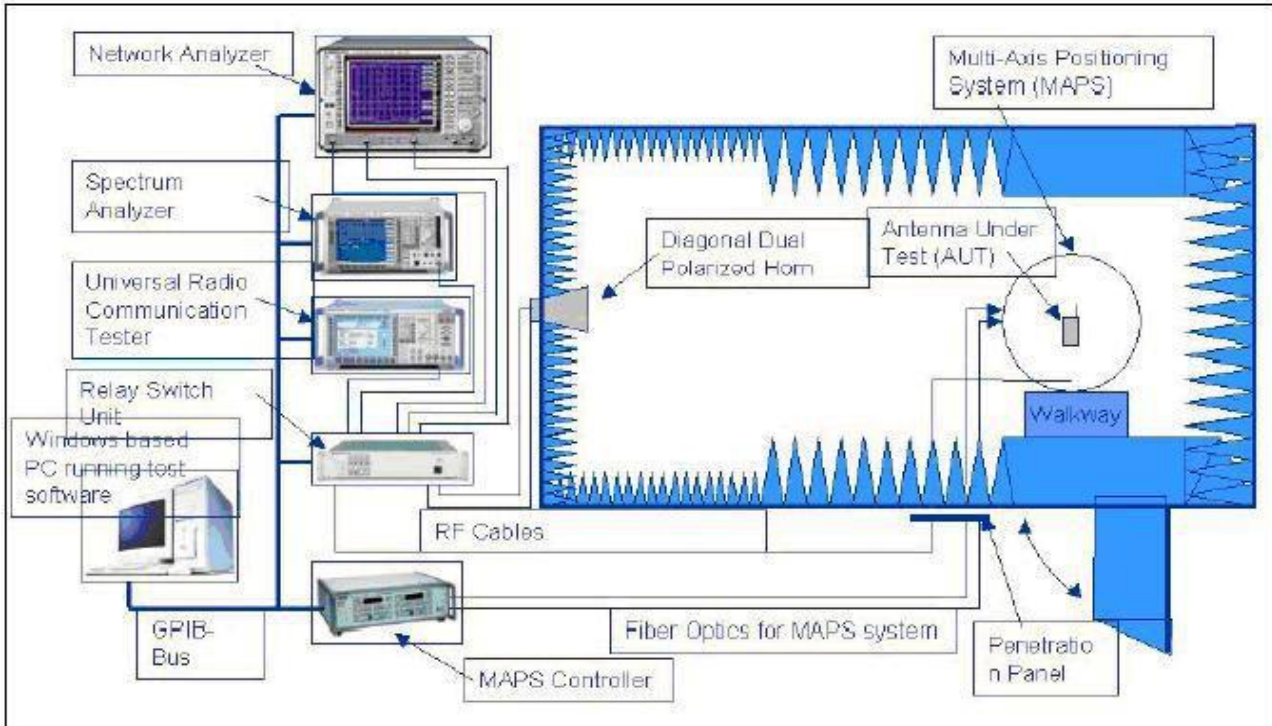
2. Test equipment



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.

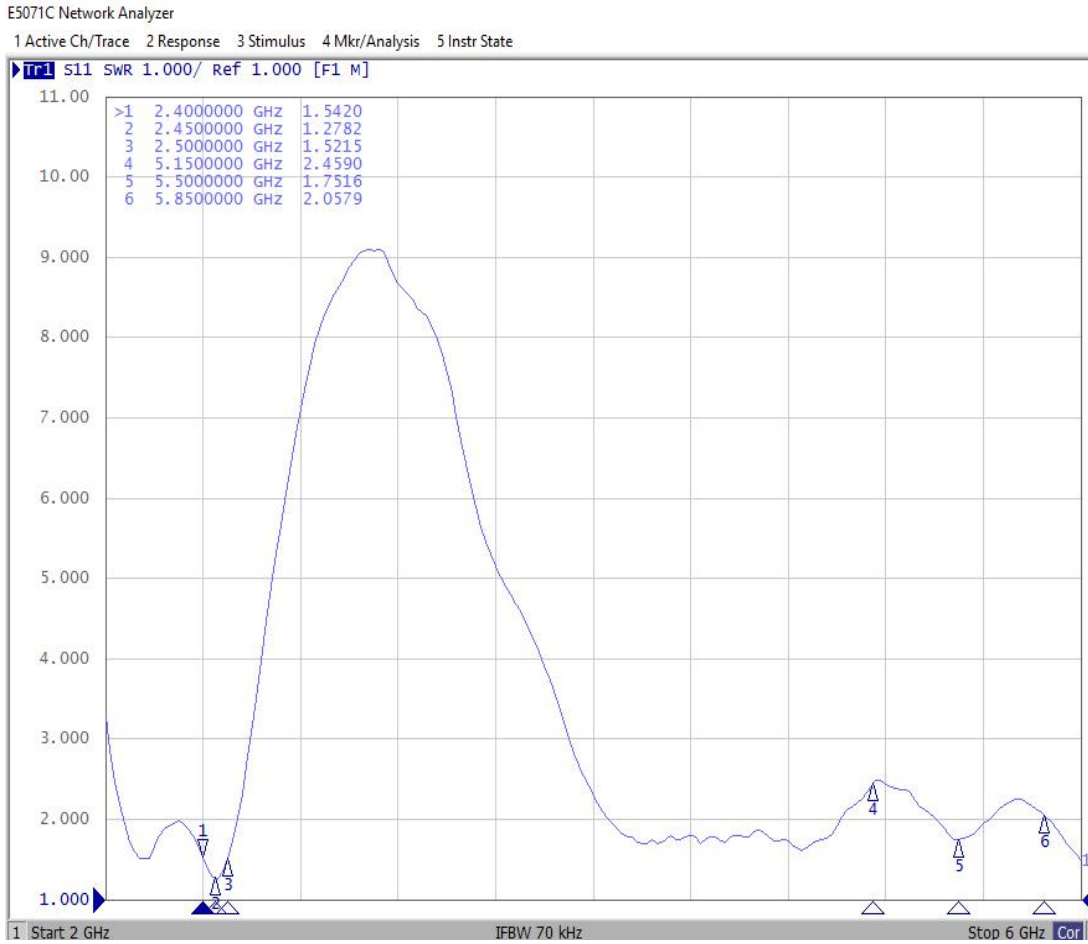
Testing range:

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

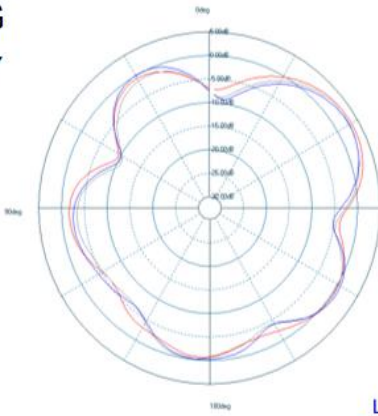


3-2 Passive test

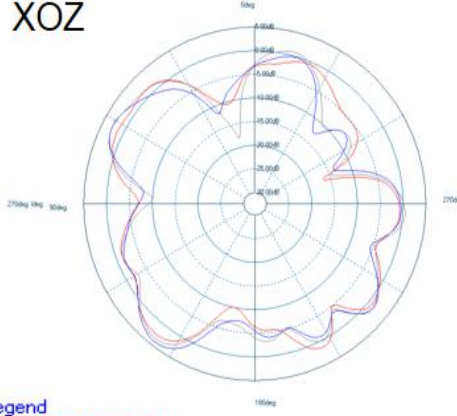
Frequency (MHz)	Efficiency	Efficiency. dB	Gain . dB
2400	53%	-2.76	3.35
2410	54%	-2.64	3.46
2420	56%	-2.51	3.76
2430	57%	-2.46	3.80
2440	56%	-2.52	3.75
2450	55%	-2.62	3.47
2460	52%	-2.83	2.94
2470	53%	-2.78	2.96
2480	53%	-2.73	3.14
2490	51%	-2.93	3.17
2500	50%	-3.00	3.39
5150	45%	-3.51	2.64
5200	44%	-3.53	2.47
5250	45%	-3.46	2.58
5300	42%	-3.72	2.47
5350	48%	-3.19	3.09
5400	50%	-3.04	3.12
5450	52%	-2.83	3.33
5500	48%	-3.17	3.09
5550	44%	-3.57	2.85
5600	46%	-3.41	2.92
5650	47%	-3.27	3.26
5700	47%	-3.30	3.35
5750	45%	-3.44	3.41
5800	46%	-3.36	3.76
5850	48%	-3.21	3.66

3-3 2D/3D Radiation Pattern Results

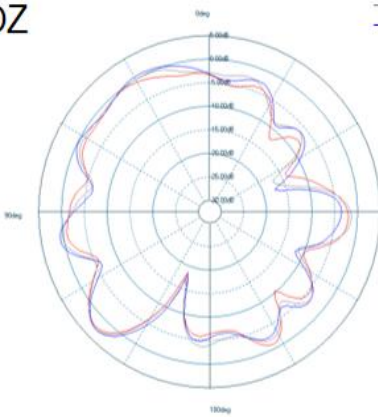
2.4G
XOY



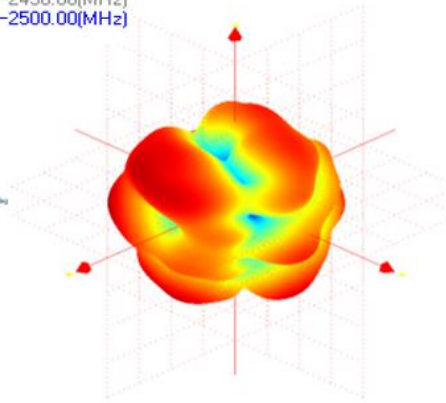
XOZ



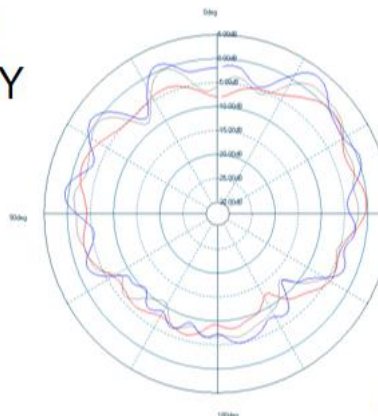
YOZ



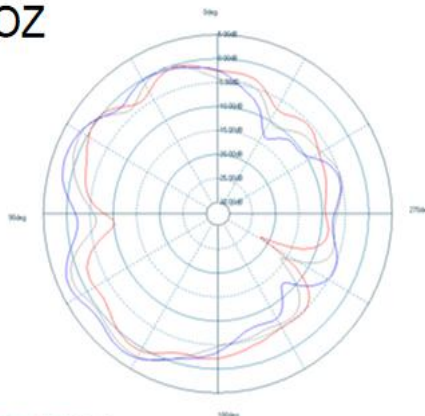
Legend
— 2400.00(MHz)
— 2450.00(MHz)
— 2500.00(MHz)



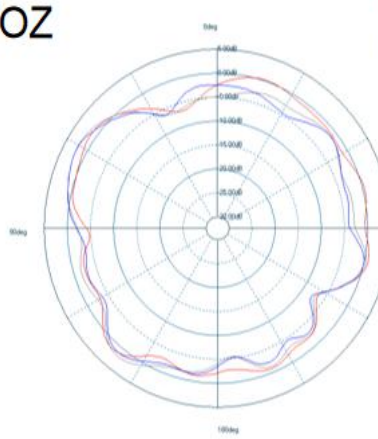
5G
XOY



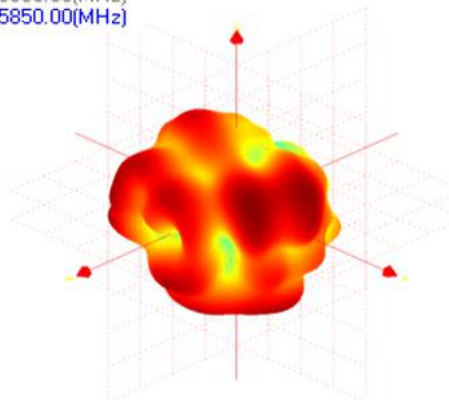
XOZ



YOZ



Legend
— 5150.00(MHz)
— 5500.00(MHz)
— 5850.00(MHz)



3-4 Active test

WIFI 2.4G-11. b			
	Channels	TRP	TIS
1	2.412 GHz	14.28	-78.19
6	2.437 GHz	14.35	-78.44
11	2.462 GHz	13.65	-78.55
WIFI 5G-11. a			
	Channels	TRP	TIS
36	5.18 GHz	13.24	-67.34
100	5.5 GHz	12.14	-66.19
165	5.825 GHz	13.35	-67.66