

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	云伽智能
CS P/N(客户机种)	P902
PART NAME(品名)	V207天线组件
FREQUENCY(频率)	2400~2500MHz
CUS NO.(物料编号)	
ZTX NO.(物料编号)	2.00000591
DATE(日期)	2023/10/17

### 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	ME CHECKED	RF CHECKED	LISTER
	刘黎平	古谨平	



ZTX 中天迅

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>

## Revision history

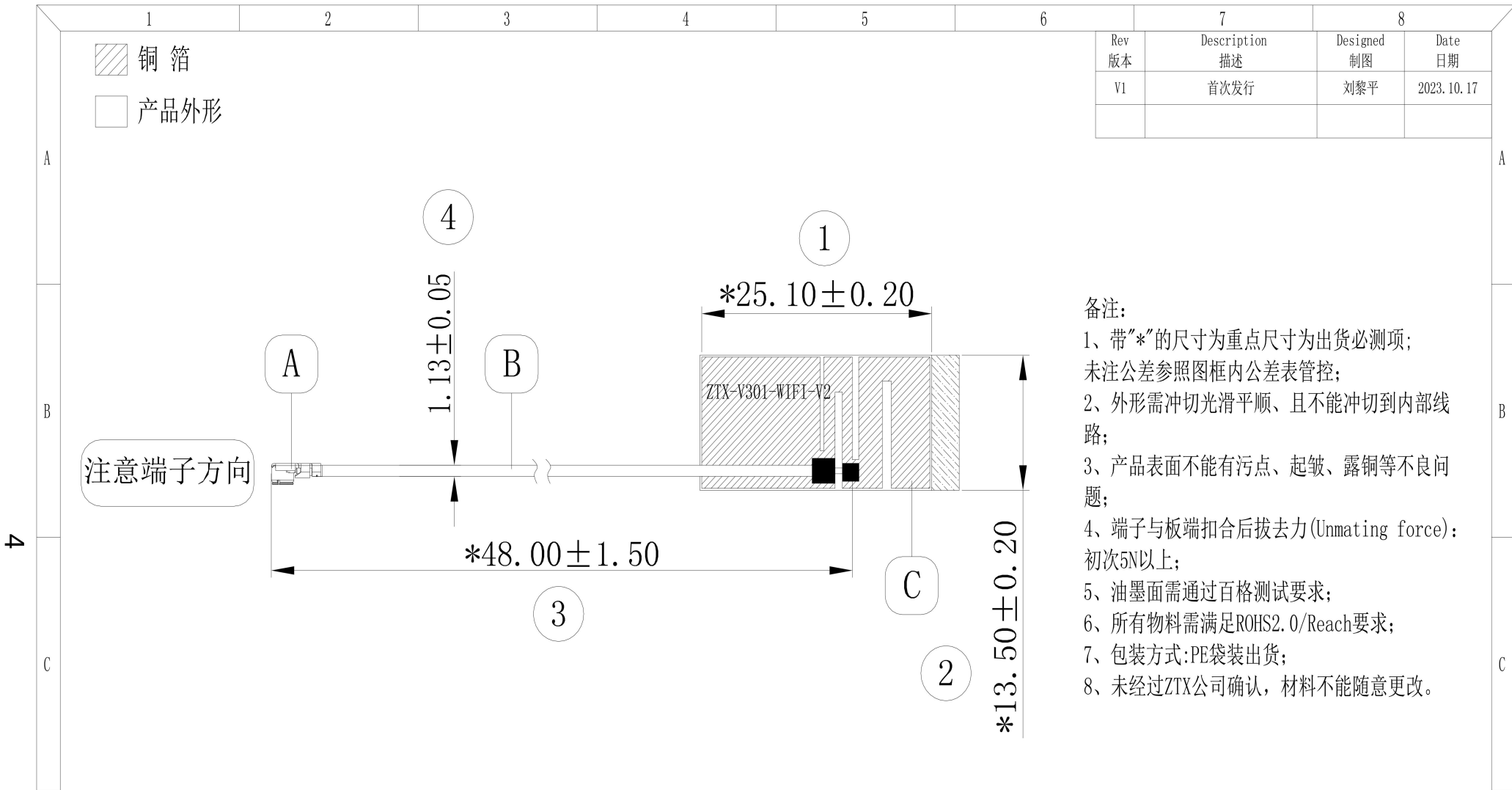
版本	日期	状态
A0	2023/10/17	初版

## 目录 Index

封面/Cover .....	1
变更履历/Revision history .....	2
目录/Index .....	3
1 . 工程图纸/2D Drawing .....	4
2 . 试验设备/Test equipment .....	5
3 . 电气/机械性能测试报告/Electrical Performance Test Report .....	6~8

 铜箔  
 产品外形

Rev 版本	Description 描述	Designed 制图	Date 日期
V1	首次发行	刘黎平	2023.10.17

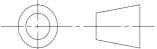


- 备注:
- 带"\*"的尺寸为重点尺寸为出货必测项; 未注公差参照图框内公差表管控;
  - 外形需冲切光滑平顺、且不能冲切到内部线路;
  - 产品表面不能有污点、起皱、露铜等不良问题;
  - 端子与板端扣合后拔去力(Unmating force): 初次5N以上;
  - 油墨面需通过百格测试要求;
  - 所有物料需满足ROHS2.0/Reach要求;
  - 包装方式:PE袋装出货;
  - 未经过ZTX公司确认,材料不能随意更改。

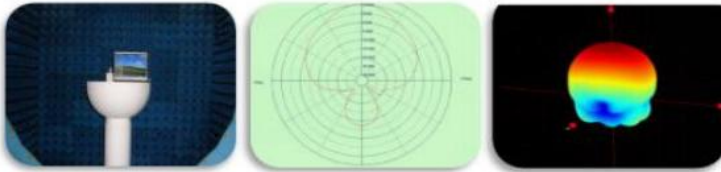
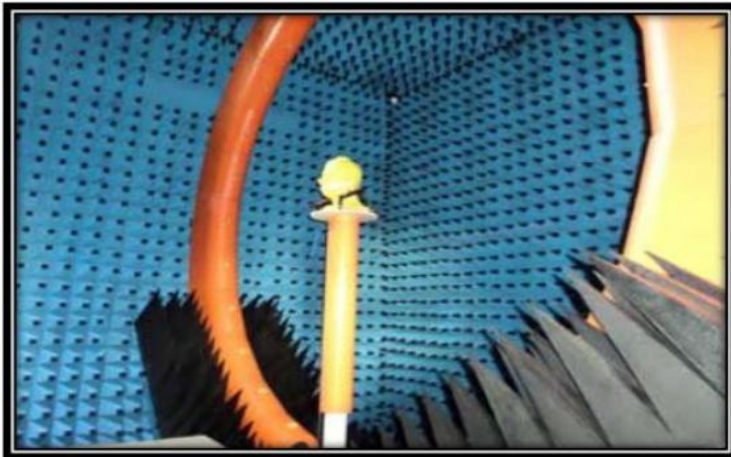
部件材质工艺说明:

序号	物料名称	材质说明	用量	备注
(A)	RF端子1代	磷青铜(镀金)	1PCS	
(B)	同轴线	双锡/FEP/黑色	1PCS	
(C)	FPC天线	单面板/电解铜/一对半/OSP/T=0.13	1PCS	/

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

General Tolerance			Date 日期: 2023.10.17	Unit 单位: mm	Rev 版本: V1	Scale 比例: 1:1	Project Name 项目名称: P902
Dim	Grade	A	B	Designed 设计: 刘黎平		Material 材料: /	
	5-10	±0.10	±0.20	Checked 审核: 古谨平		Product Name 产品名称: V207天线_组件	
	10-20	±0.15	±0.30	Approval 批准: 邹国华		Material Code 物料编码: 2.00000591	
	20-40	±0.20	±0.40			Drawing Number 图纸编号: ZTX-QR-RD-013	
	40≥	±0.25	±0.50			Third Angle 第三视角 	

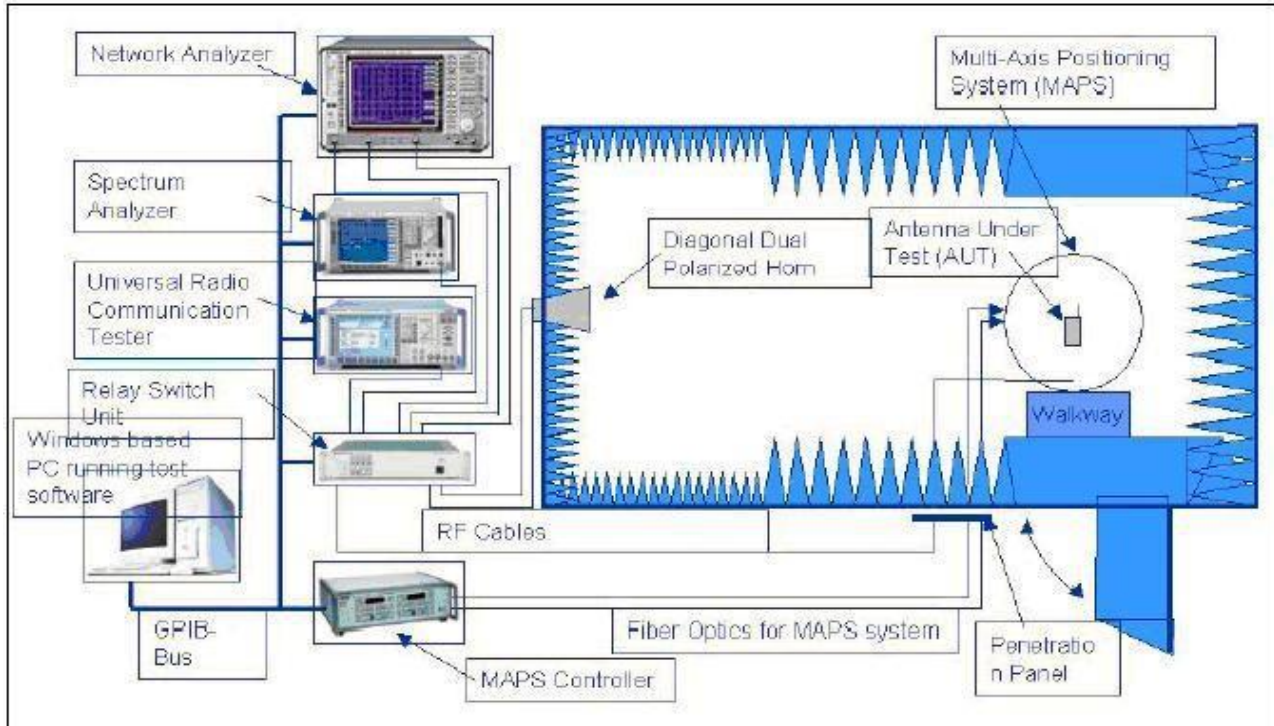
## 2. Test equipment



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.

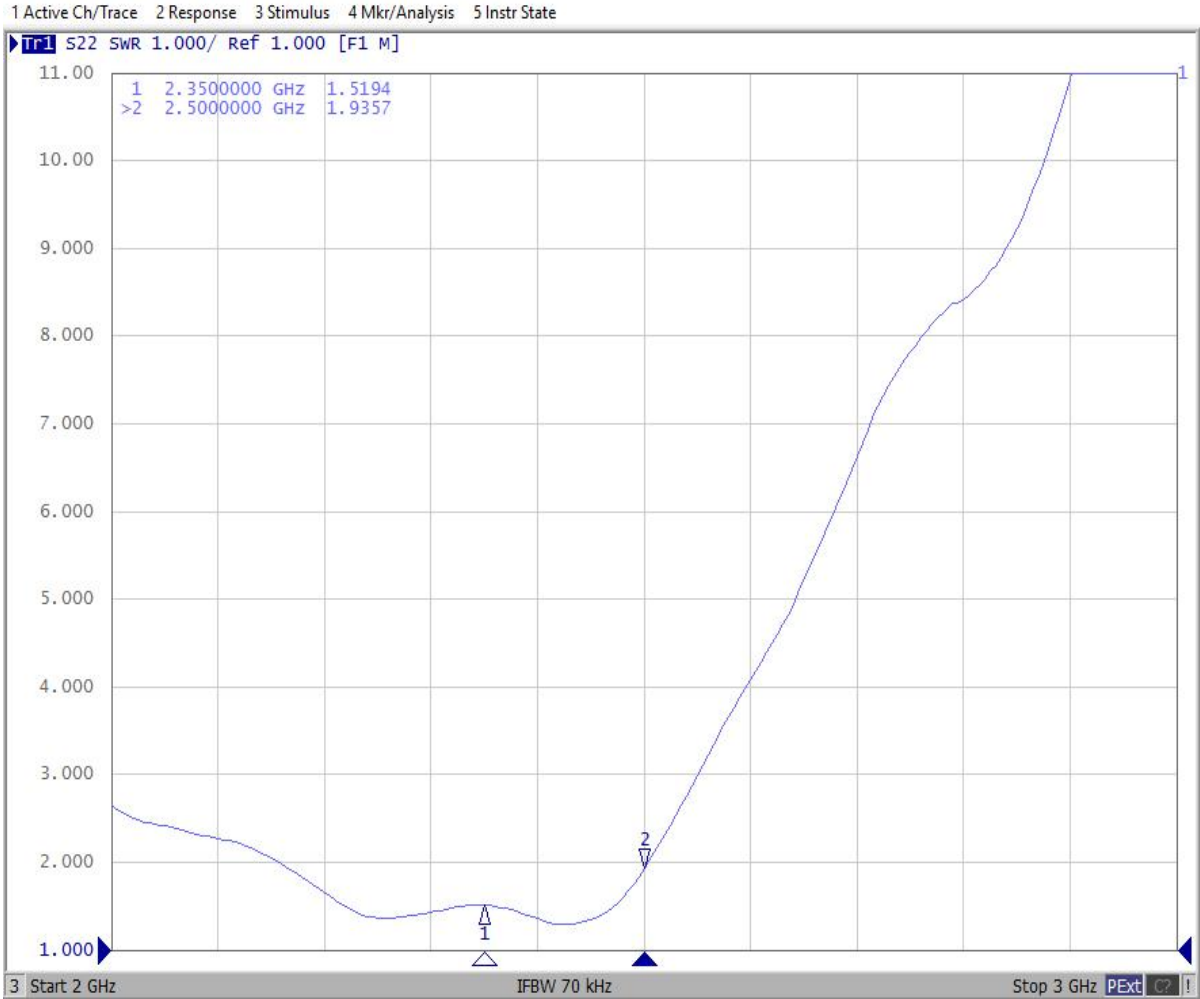
Testing range:

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 Active test

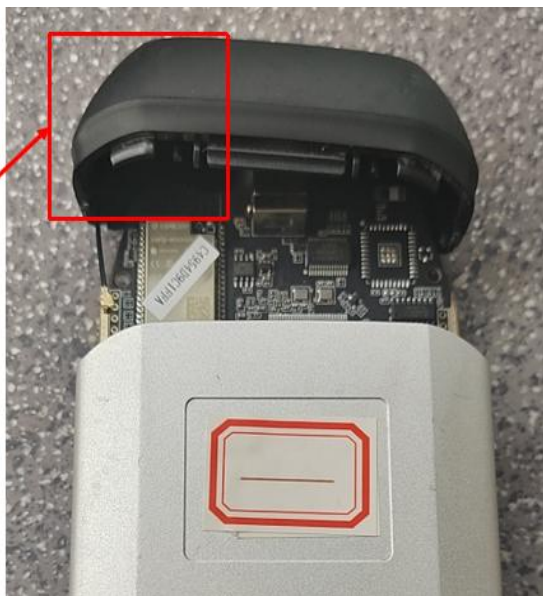
11B	Channels	TRP	TIS
	1	13.3	-80.51
	6	13.25	-80.29
	11	13.05	-80.45
11G	Channels	TRP	TIS
	1	13.01	-67.82
	6	13.27	-67.73
	11	13.11	-67.05

3-3 Passive test

Frequency	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400MHz	49%	-3.07	1.91
2410MHz	47%	-3.29	1.75
2420MHz	48%	-3.17	1.88
2430MHz	48%	-3.19	1.84
2440MHz	47%	-3.31	1.73
2450MHz	47%	-3.31	1.76
2460MHz	50%	-2.99	1.84
2470MHz	49%	-3.10	1.31
2480MHz	49%	-3.09	1.31
2490MHz	47%	-3.30	1.25
2500MHz	46%	-3.37	1.14

3-4 Environment treatment

天线位置



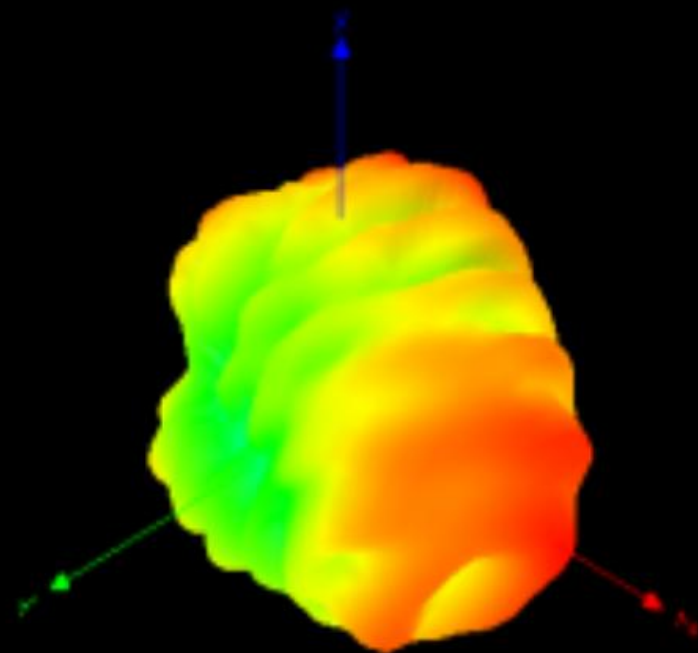
机器正面

机器反面

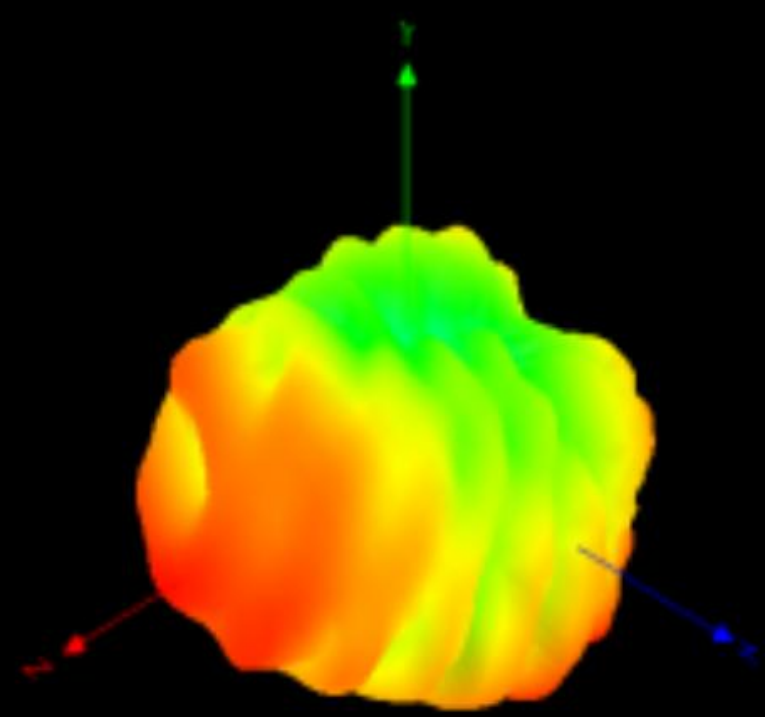




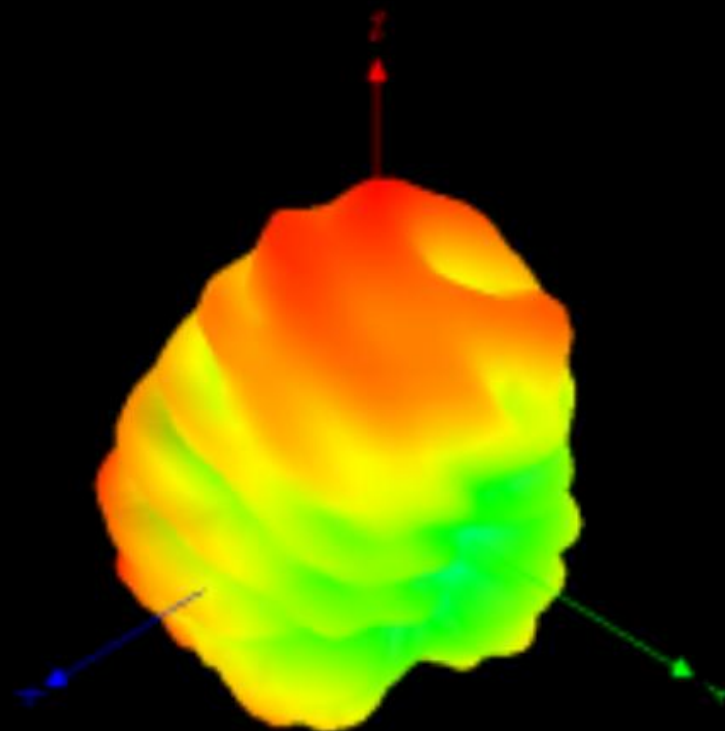
Freq: 2450MHz



Freq: 2450MHz



Freq: 2450MHz



2.65

0.37

-1.92

-4.20

-6.48

-8.77

-11.05

-13.34

-15.62

-17.90

-20.19

-22.47

