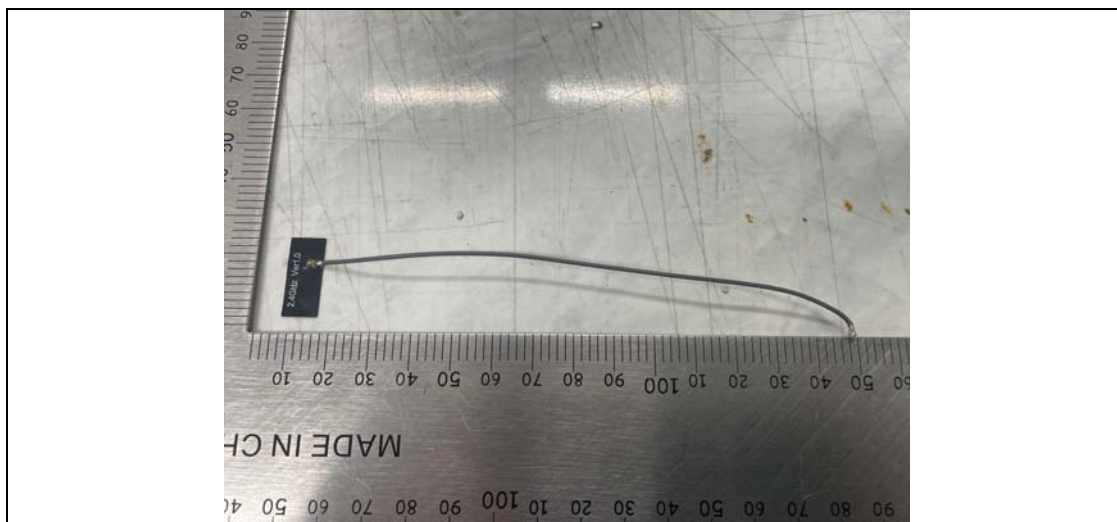


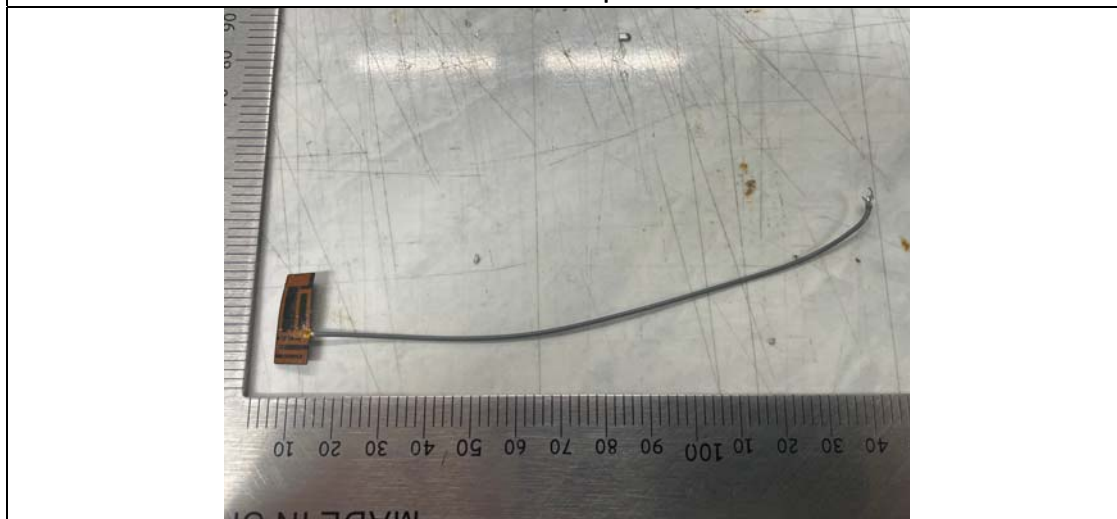
Antenna Information

Manufacturer	-
Antenna Type	FPC Antenna
Antenna Model	-
Antenna Part Number	AN2400-FPC259GO
Antenna Frequency Range	2.4 ~ 2.5 GHz
Antenna Input Power Limitation	-
Antenna Peak Gain	4.09 dBi
Antenna Dimension (LxHxW)	-

Antenna Photo



Antenna Top View



Antenna Bottom View



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-FPC259GO

Product Name: Antenna

Specification For Approval

Date: 2024.5.28

Version: 1.0

客户名称

Customer:

深圳市博祯科技有限公司

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-FPC259GO

规格描述

Description :

2.4G FPC 天线 1.13mm 灰色线 L=145mm

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制 作	路婷	TESTED BY 检 测	
CHECKED BY 审 核	胡超	CHECKED BY 审 核	
Q.C.DEPT. 品 管	祁志鹏	Q.C.DEPT. 品 管	
APPROVED BY 核 准	韦佳	APPROVEDBY 核 准	



NO.53 Shatou ShaChong Road, ChangAn Town, Guangdong province, China

中国广东省东莞市长安镇沙头区沙涌路 53 号

TEL:86-769-81873082 FAX:86-769-82663788

<http://www.tenxiang.cn>



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-FPC259GO

Product Name: Antenna

Index:

1. Specification (规格)
2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
3. Antenna - S Parameter Test Data (样品测试数据)
4. Antenna - Radiation Pattern Test Data (辐射模式测试数据)
5. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.5.28	初版	

Product Number: AN2400-FPC259GO

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500 MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	4.09dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.13mm ,gray
Connector Type 连接器规格	/
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

Product Number: AN2400-FPC259GO

Product Name: Antenna

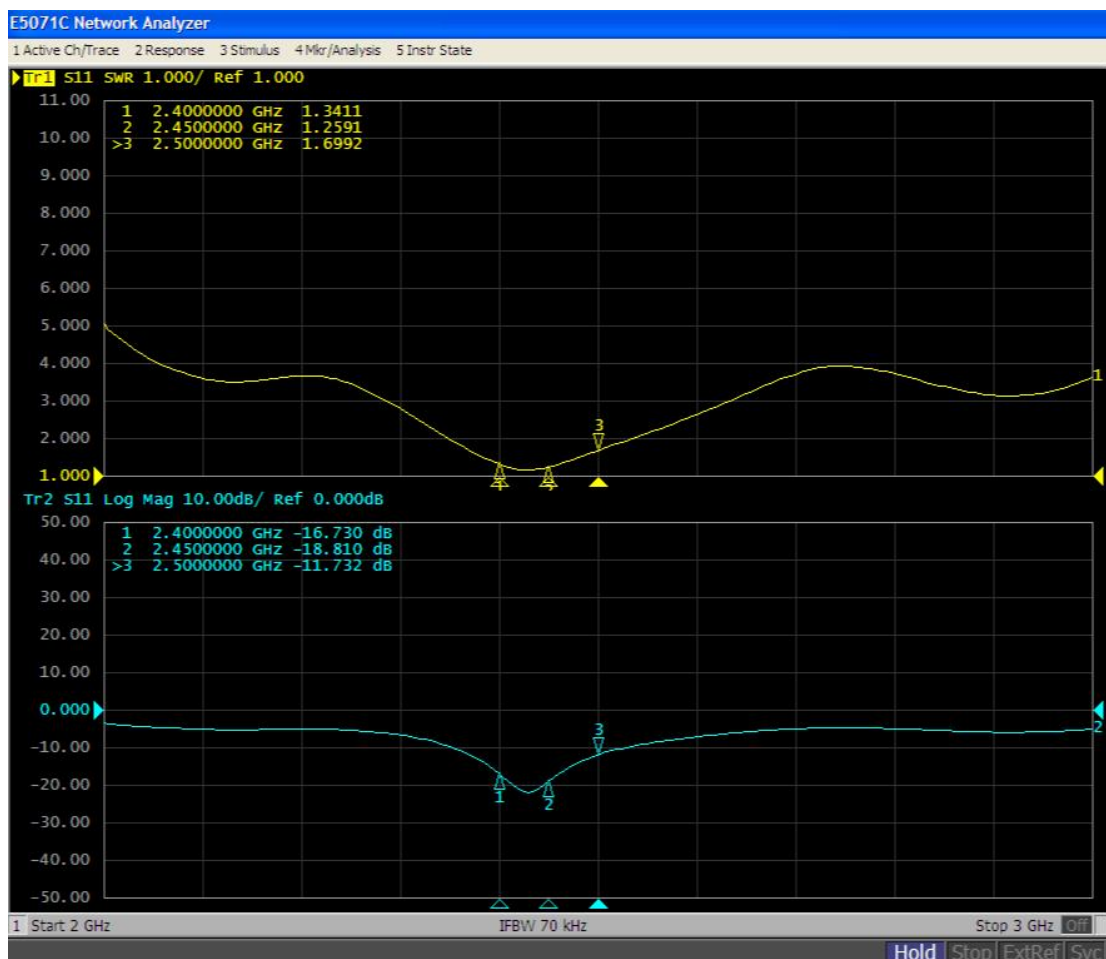
2. Characteristics and Reliability Test

Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Insertion Loss 插入损失	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
4	Solderability 可焊性	GB / T2423.28-2005 Temp: 260±5° C; Duration: 5 seconds 温度 260±5° C; 持续 5 秒	Tin evenly on full 上锡均匀饱满	PASS
5	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal 单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol. ≤5% 符合待测物规范; 频率偏移 ≤5%	PASS
6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process. 检查尺寸, 颜色, 材料, 包装, 表面处理	Directive DUT specification 符合待测物规范	PASS
7	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%; Time: 24H 温度 35°C; 湿度 ≥95%; 盐水浓度 ≥5%; 测试 24H	1. No Visual Damage 2. Frequency Tol. ≤5% 无明显外观不良; 频率偏移 ≤5%	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 标准	PASS

Product Number:AN2400-FPC259GO

Product Name: Antenna

3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.02	3.09	3.27	3.06	3.20	3.10	3.00	3.66	3.85	3.81	4.09
Efficiency (%)	40.81	42.89	44.90	44.86	45.01	45.95	45.82	47.49	47.97	47.47	48.71

Product Number: AN2400-FPC259GO

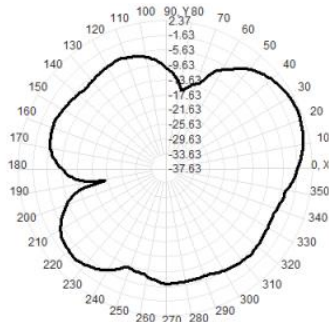
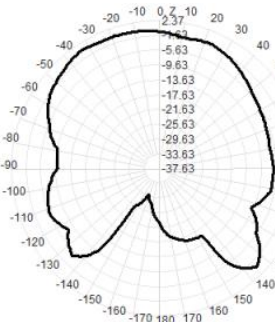
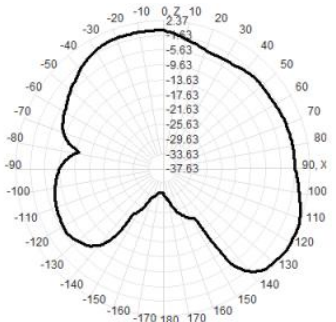
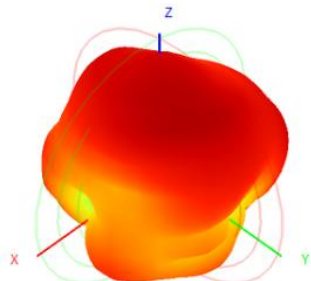
Product Name: Antenna

XZ

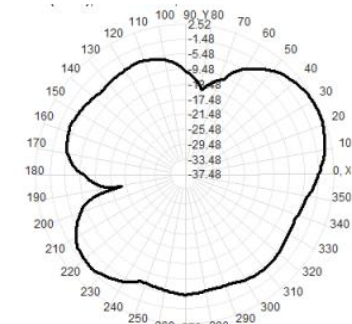
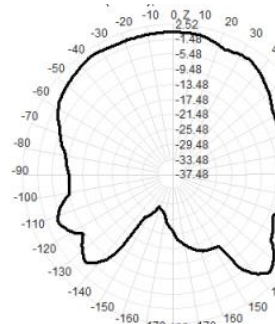
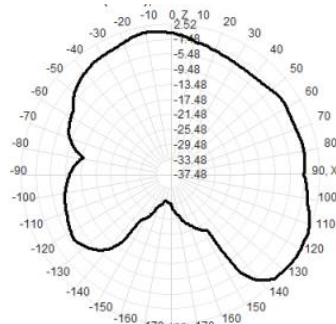
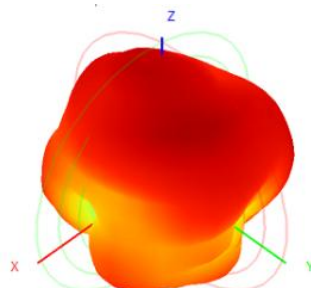
YZ

XY

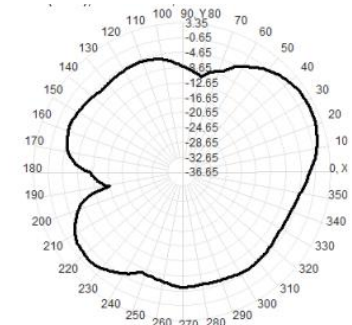
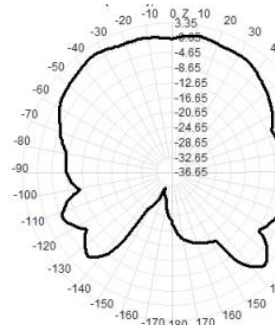
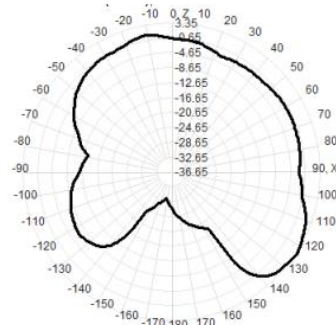
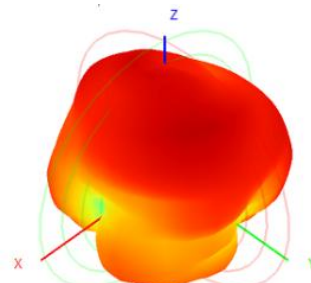
2400MHz



2450MHz



2500MHz



5. Mechanical Drawing See attached files

产品包装规范

PACKING CRITERION

Date: 2024.05.28

Page: 1 of 1

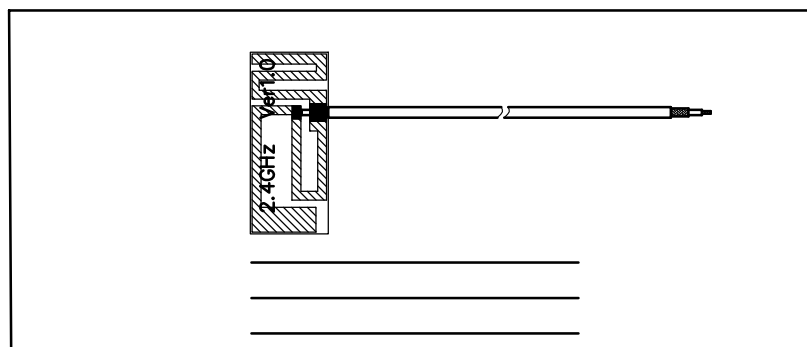
Part Number : AN2400-FPC259GO

Revision : A

Name: Antenna

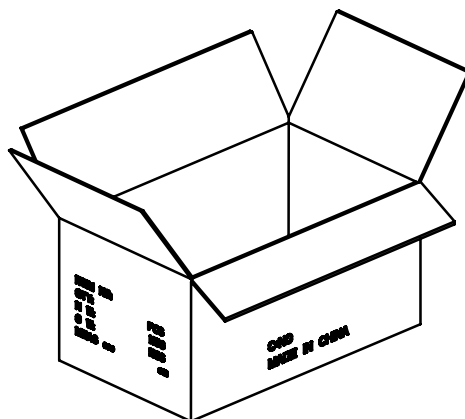
Customer : ALL

1 . Enter PE bag。



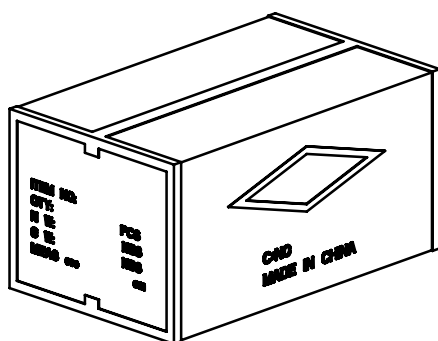
100pcs/ PE bag

2.PACKING。



8000pcs/Carton

3. SEALING。

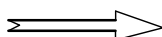


SIDE

ITEM NO:
QTY: PCS
N W: KGS
G W: KGS
MEAS

FRONT

C/NO
MADE IN CHINA



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : SY Y

Antenna Information

Manufacturer	-
Antenna Type	Dipole Antenna
Antenna Model	-
Antenna Part Number	STDPA131915IGS302
Antenna Frequency Range	2.4 ~ 2.5 GHz
Antenna Input Power Limitation	-
Antenna Peak Gain	5.17 dBi
Antenna Dimension (LxHxW)	L194 (mm)

Antenna Photo



Antenna Top View



Antenna Bottom View

STDPA131915IGS302 Specification

2.4GHz Dipole Antenna

1. Feature

- * 2.4GHz Dipole Antenna
- * Plastic rod of Black
- * ROHS compliance

2. Application

- * 2.4GHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

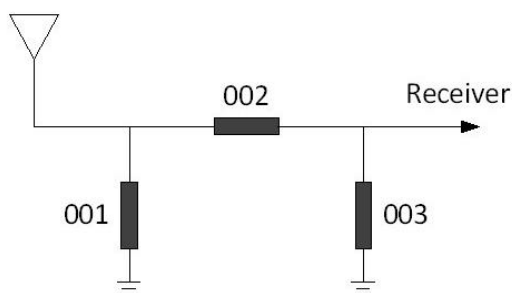
The antenna was specially designed by Suzhou Soant communication Equipment Co.,Ltd, for 2.4GHz Dipole Antenna applications . It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	2.4GHz Dipole Antenna
Part No.	STDPA131915IGS302
Frequency	2.4-2.5GHz
V.S.W.R	≤2.0
Gain (dBi)	5.0dBi
Polarization	Vertical
Storage life	one year
Storage Temp	-40℃~+80℃
Operating Temperature	-10℃~+60℃
Impedance with Matching	50 Ω
Dimension	L194 (mm)

5. Typical Electrical Characteristics

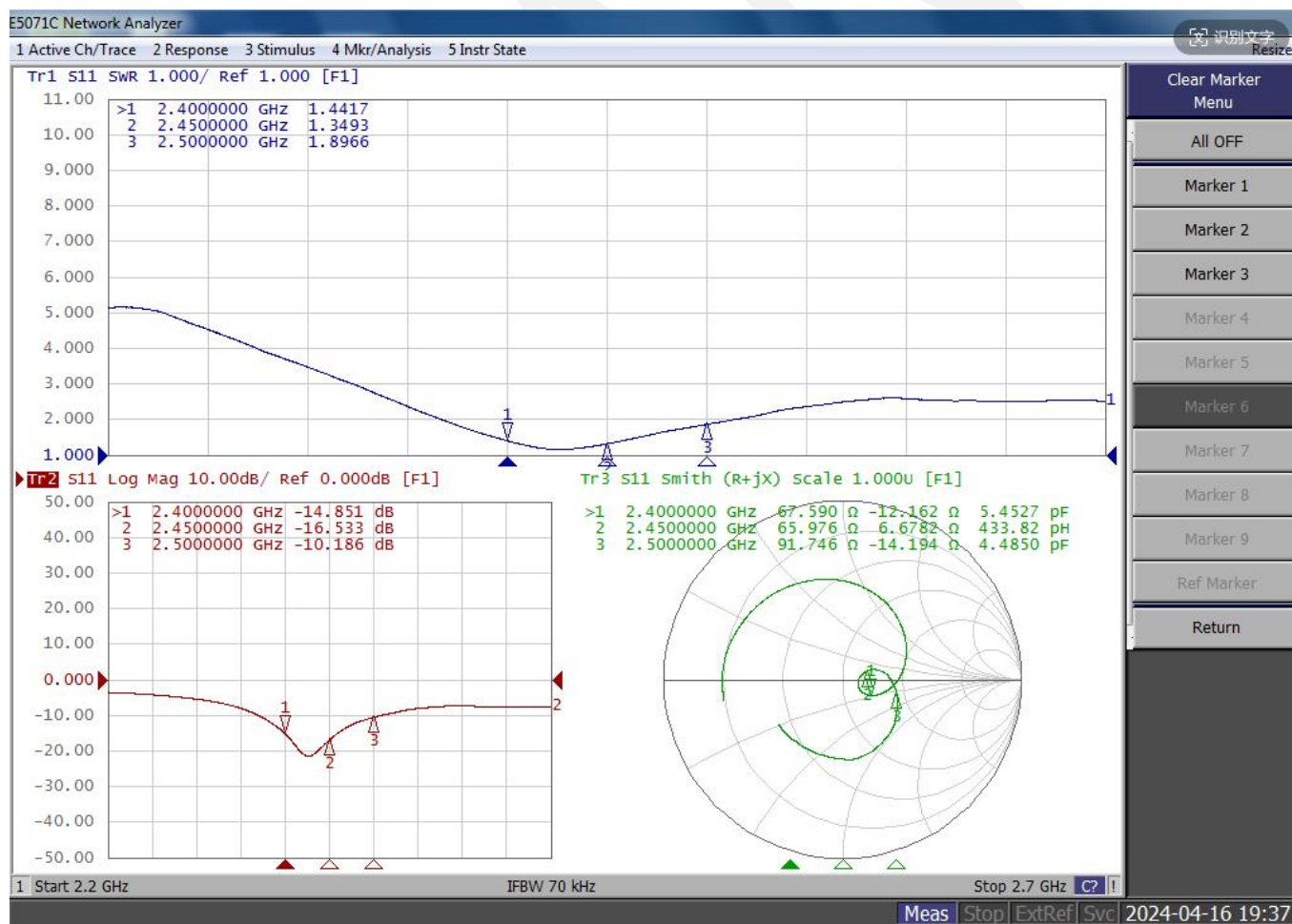
- Recommend Matching Circuit



Reference:

001=(N/A)
 002=0 Ω
 003=(N/A)

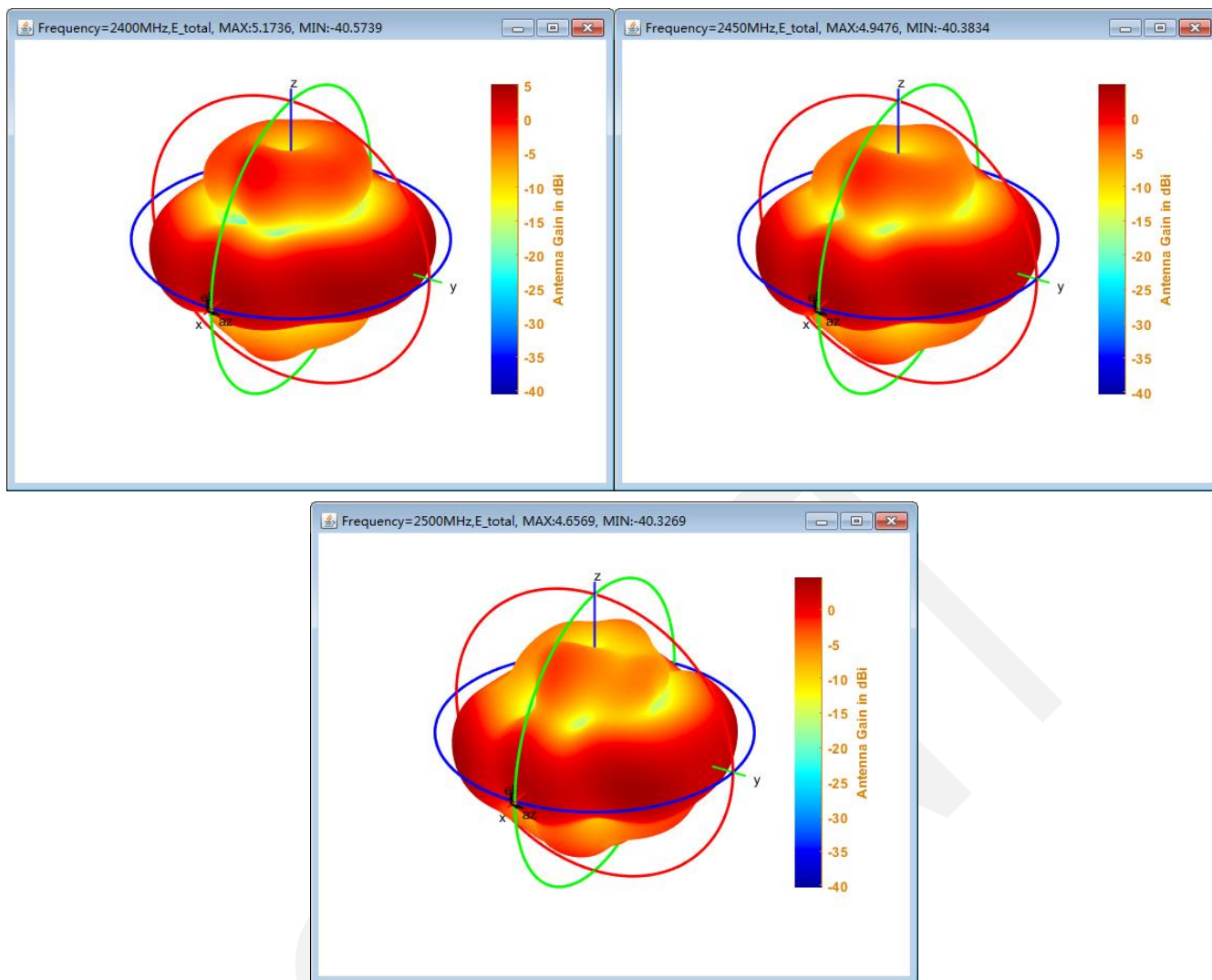
- Return loss、VSWR& Smith chart



Frequency Total Data

Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	5.9731	5.1736	-0.7994	83.1875
2405	5.9437	5.0911	-0.8526	82.1745
2410	5.9473	5.0854	-0.8619	81.9986
2415	5.9085	5.0213	-0.8872	81.5226
2420	5.8042	4.9451	-0.8591	82.0524
2425	5.6958	4.8306	-0.8652	81.9366
2430	5.7784	4.9405	-0.838	82.4521
2435	5.8123	4.8753	-0.937	80.5928
2440	5.8343	4.8089	-1.0253	78.9707
2445	5.8964	4.8427	-1.0537	78.4561
2450	6.0298	4.9476	-1.0822	77.943
2455	6.1149	4.962	-1.153	76.6839
2460	6.1693	5.0193	-1.15	76.736
2465	6.1929	5.0796	-1.1133	77.3871
2470	6.2212	5.0416	-1.1796	76.2157
2475	6.2376	5.0545	-1.1831	76.1532
2480	6.2992	4.9206	-1.3786	72.8023
2485	6.324	4.9063	-1.4178	72.1476
2490	6.2886	4.8237	-1.4649	71.3695
2495	6.235	4.7234	-1.5115	70.6071
2500	6.0851	4.6569	-1.4282	71.9753

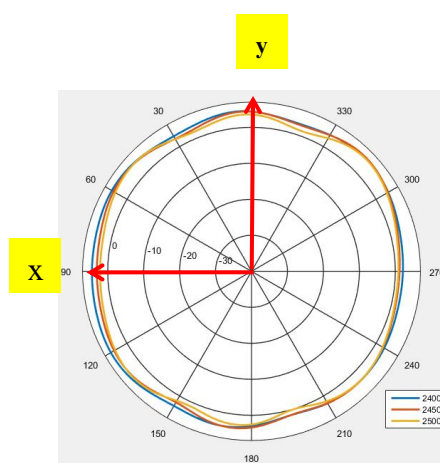
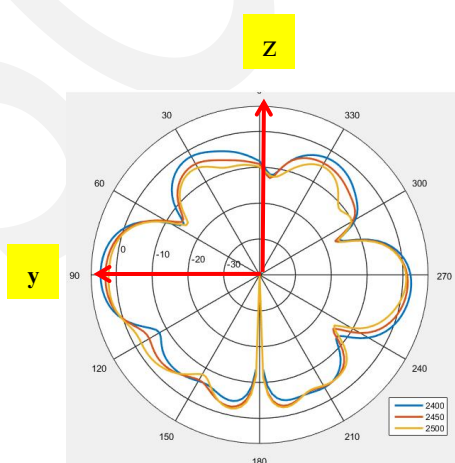
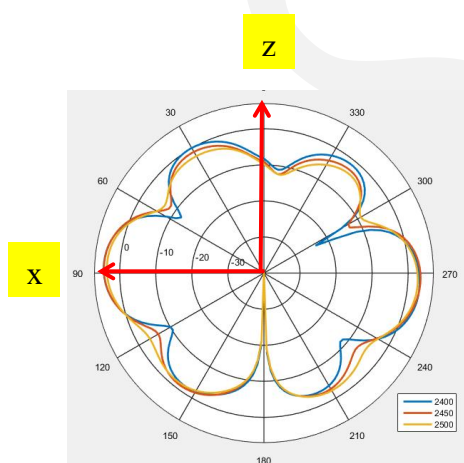
2D&3D test pattern



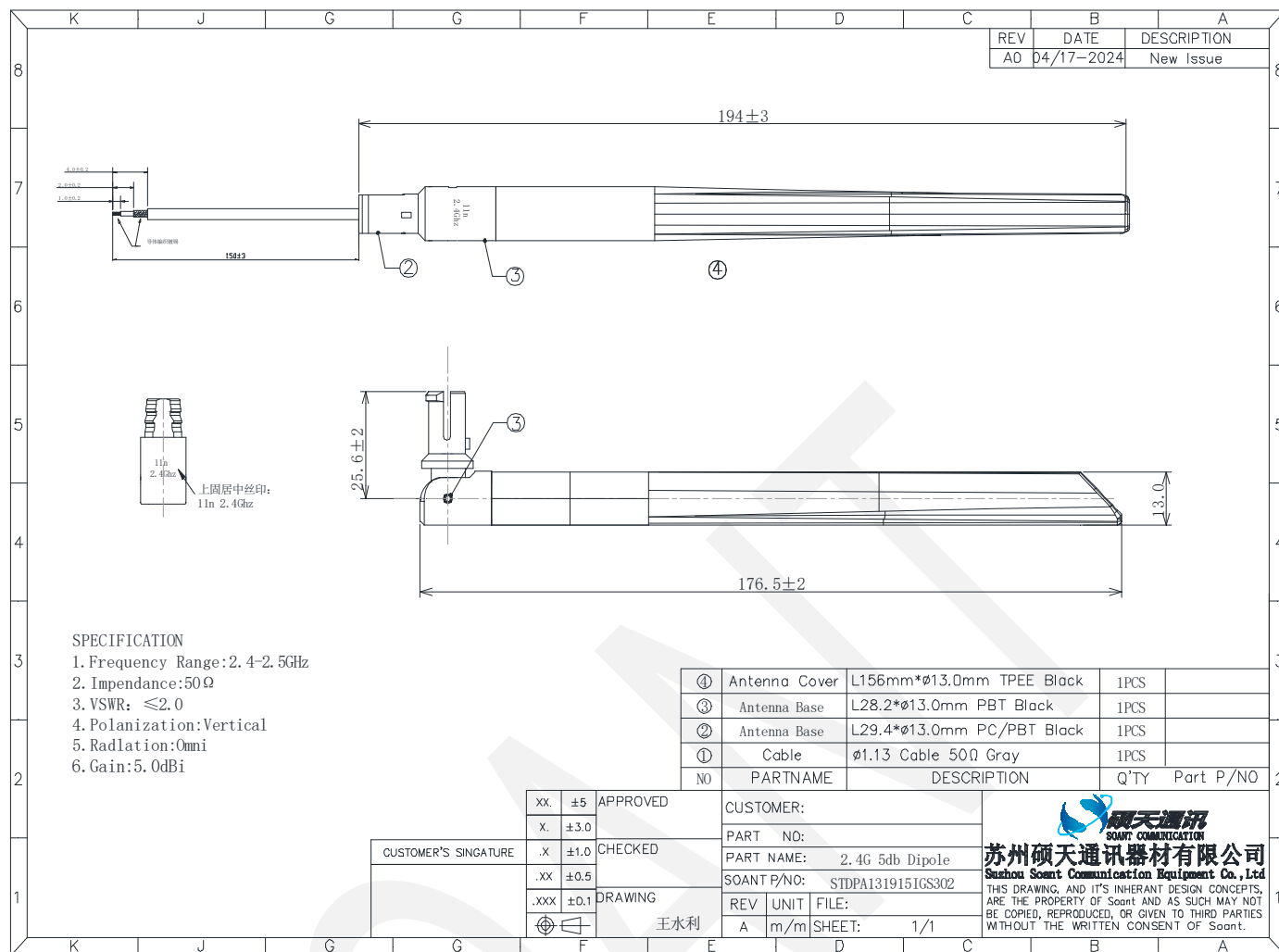
XZ Plane

YZ Plane

XY Plane



6. Dimension



Antenna Information

Manufacturer	-
Antenna Type	Dipole Antenna
Antenna Model	900MHz Dipole Antenna
Antenna Part Number	STDPA131909IBS900
Antenna Frequency Range	902 ~ 928 MHz
Antenna Input Power Limitation	-
Antenna Peak Gain	2.5 dBi
Antenna Dimension (LxHxW)	-

Antenna Photo



Antenna Top View



Antenna Bottom View

STDPA131909IBS900 Specification

900MHz Dipole Antenna

1. Feature

- * 900MHz Dipole Antenna
- * Plastic rod of Black
- * ROHS compliance

2. Application

- * 900MHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

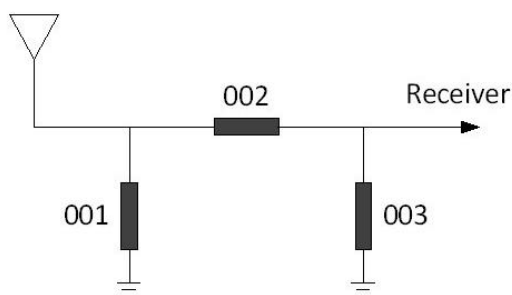
The antenna was specially designed by Suzhou Soant communication Equipment Co.,Ltd, for 900MHz Dipole Antenna applications . It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	900MHz Dipole Antenna
Part No.	STDPA131909IBS900
Frequency	902~928MHz
V.S.W.R	≤2.0
Gain (dBi)	2.5dBi
Polarization	Vertical
Storage life	one year
Storage Temp	-40℃~+80℃
Operating Temperature	-10℃~+60℃
Impedance with Matching	50 Ω
Dimension	L194 (mm)

5. Typical Electrical Characteristics

➤ Recommend Matching Circuit



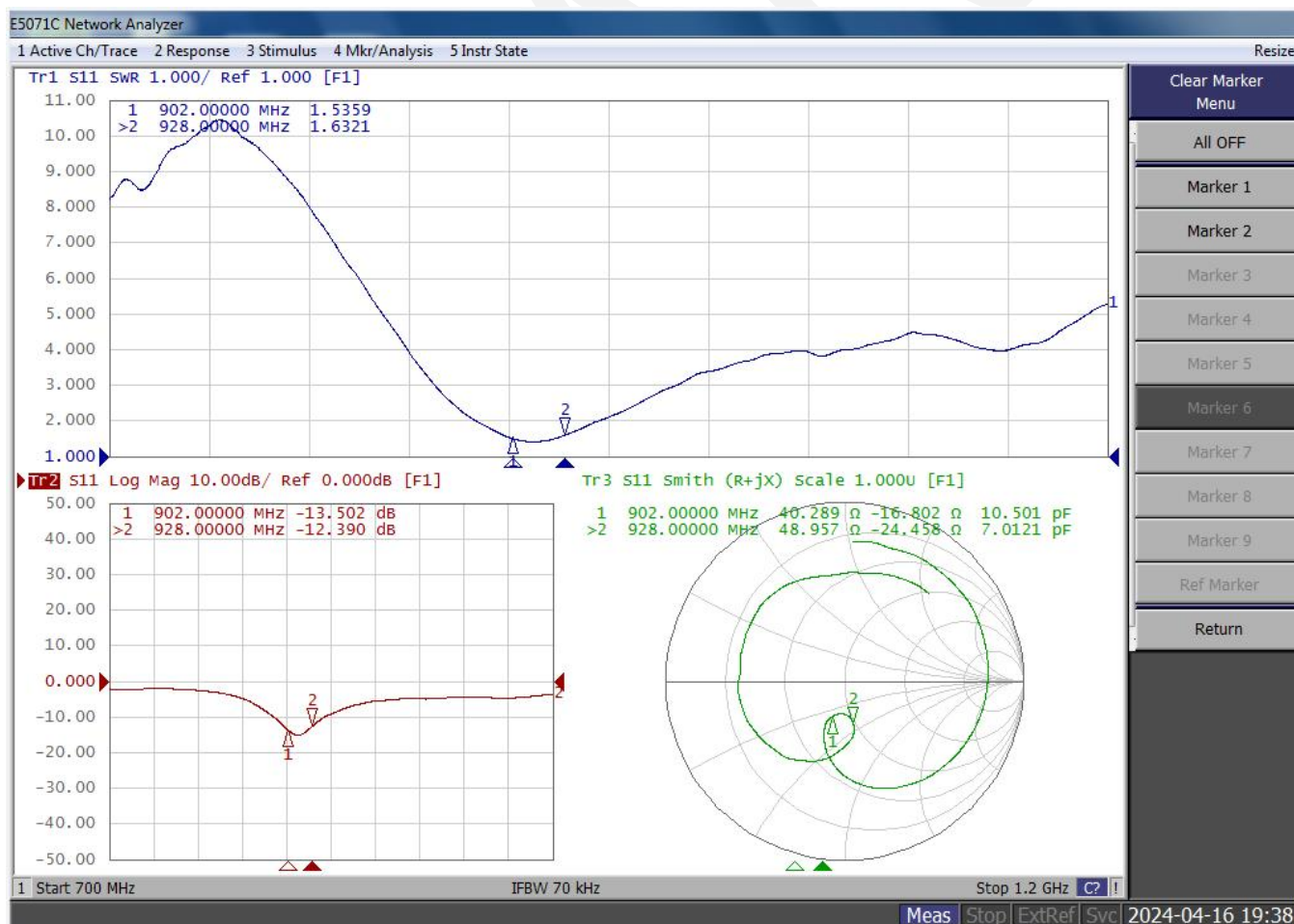
Reference:

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002=0 Ω

003=(N/A)

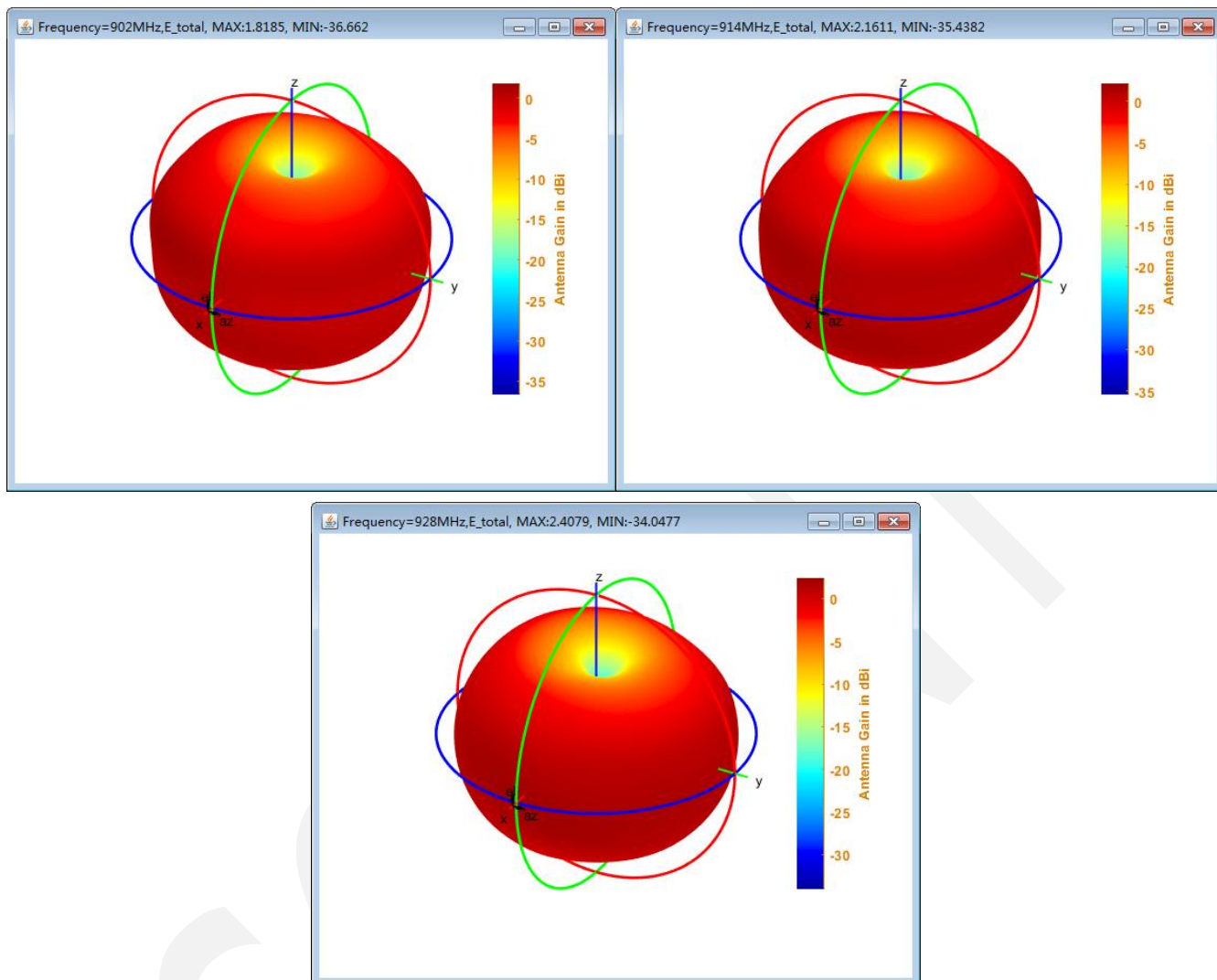
➤ Return loss、VSWR& Smith chart



Frequency Total Data

Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(dB)	Efficiency(%)
902	2.6137	1.8185	-0.7951	83.2698
903	2.6105	1.8581	-0.7525	84.0914
904	2.6089	1.9071	-0.7018	85.0783
905	2.5999	1.9537	-0.6462	86.1756
906	2.5937	2.0412	-0.5525	88.0543
907	2.5777	2.081	-0.4967	89.1925
908	2.5564	2.1106	-0.4459	90.2432
909	2.538	2.1359	-0.402	91.1587
910	2.5178	2.1533	-0.3646	91.9486
911	2.499	2.152	-0.347	92.3206
912	2.4861	2.1542	-0.3319	92.6424
913	2.4713	2.1541	-0.3172	92.9565
914	2.4636	2.1611	-0.3025	93.2725
915	2.4512	2.1618	-0.2893	93.555
916	2.4497	2.2279	-0.2218	95.0211
917	2.4382	2.2244	-0.2138	95.1972
918	2.4253	2.2168	-0.2085	95.3134
919	2.4095	2.2054	-0.2041	95.4093
920	2.4022	2.2022	-0.2	95.4986
921	2.4028	2.216	-0.1868	95.7893
922	2.4114	2.237	-0.1744	96.0648
923	2.4271	2.266	-0.1611	96.3575
924	2.4461	2.2951	-0.151	96.5819
925	2.4662	2.3223	-0.1439	96.7408
926	2.486	2.3704	-0.1156	97.374
927	2.5054	2.3913	-0.1141	97.4079
928	2.5206	2.4079	-0.1127	97.4391

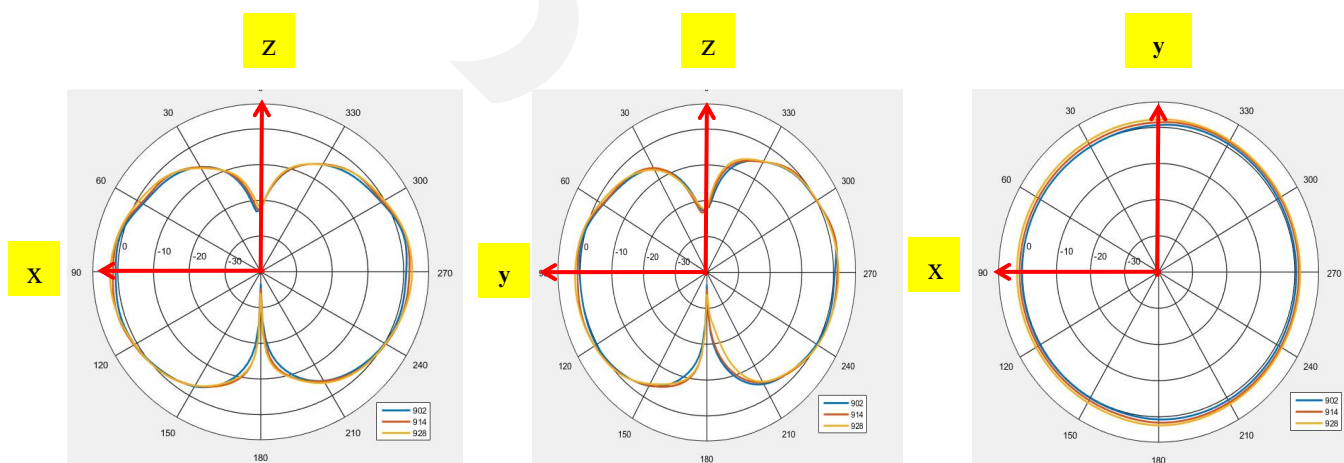
2D&3D test pattern



XZ Plane

YZ Plane

XY Plane



6. Dimension

