



# 承 认 书

## APPROVAL SHEET

客户名称 Customer				
客户料号 Customer P/N				
项目名称 Project Name	WiFi Dual-band SMA Male(Black)			
供应商名称 Supplier	上海圣丹纳无线科技有限公司 Shanghai Saintenna Wireless Technology Co.,LTD.			
圣丹纳物料型号 Saintenna P/N	SAA31578A			
是否符合 RoHS IF ROHS	yes			
送样日期 Providing Date	2020.07.10			
供应商 Supplier	制定 Prepared by	设计 Designer	品质 QA	批准 Approver
	马玉学	钱锐	李光辉	余剑平
地址: 上海市宝山区宝祁路611号8号楼 Address: Building 8, No.611 Bao Qi Road, Bao Shan District, Shanghai, China				
电话/Tel: 086-021-36307272; 传真/Fax: 086-021-36307757				
客户 Customer	编制 Prepared by	审核 Checked by	批准 Approver	

注: 必须手工签字确认 (Note: Signature must be confirmed by hand)

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# 目录/Content

一 封面/Cover.....	<input checked="" type="checkbox"/>
二 目录/Content.....	<input checked="" type="checkbox"/>
三 规格/Specification.....	<input checked="" type="checkbox"/>
四 图纸/Drawing.....	<input checked="" type="checkbox"/>
五 电性能报告/Electric Report.....	<input checked="" type="checkbox"/>

# 规格/Specification

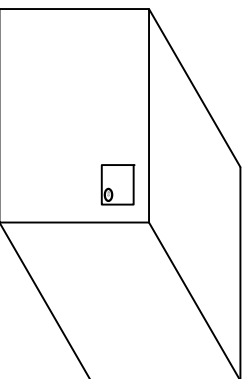
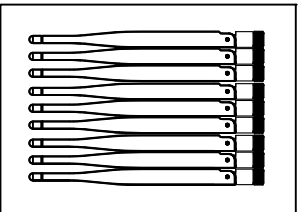
## 1. 机械规格/Mechanical Specification

- 连接方式/Connect Type..... SMA-J
- 工作温度/Work Temperature.....  $-40\sim 85^{\circ}\text{C}$
- 存储温度/Storage Temperature.....  $-40\sim 85^{\circ}\text{C}$

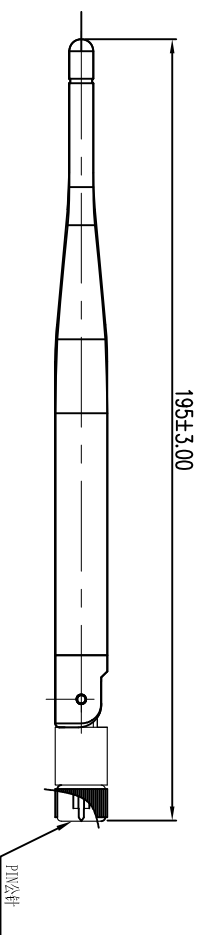
## 2. 电性能参数/Electrical Specification

- 频段/Frequency Range.....  $2.4\sim 2.5\&5.15\sim 5.85\text{GHz}$
- 驻波比/VSWR.....  $<3$
- 增益/Peak Gain.....  $0\text{dBi}$
- 极化/Polarization..... Vertical
- 特性阻抗/Input Impedance.....  $50\ \Omega$
- 最大承载功率/Max Input Power.....  $5\text{W}$

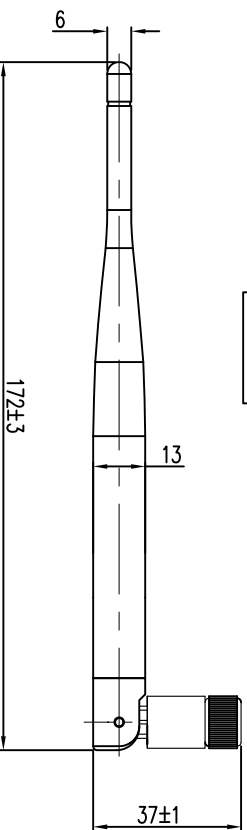
标记	签名	修改内容	日期



- 1.外箱需贴1PCS/ROHS  
标签于外箱标签上
- 2.外箱需贴1PCS/外箱标  
签于外箱侧麦右上角

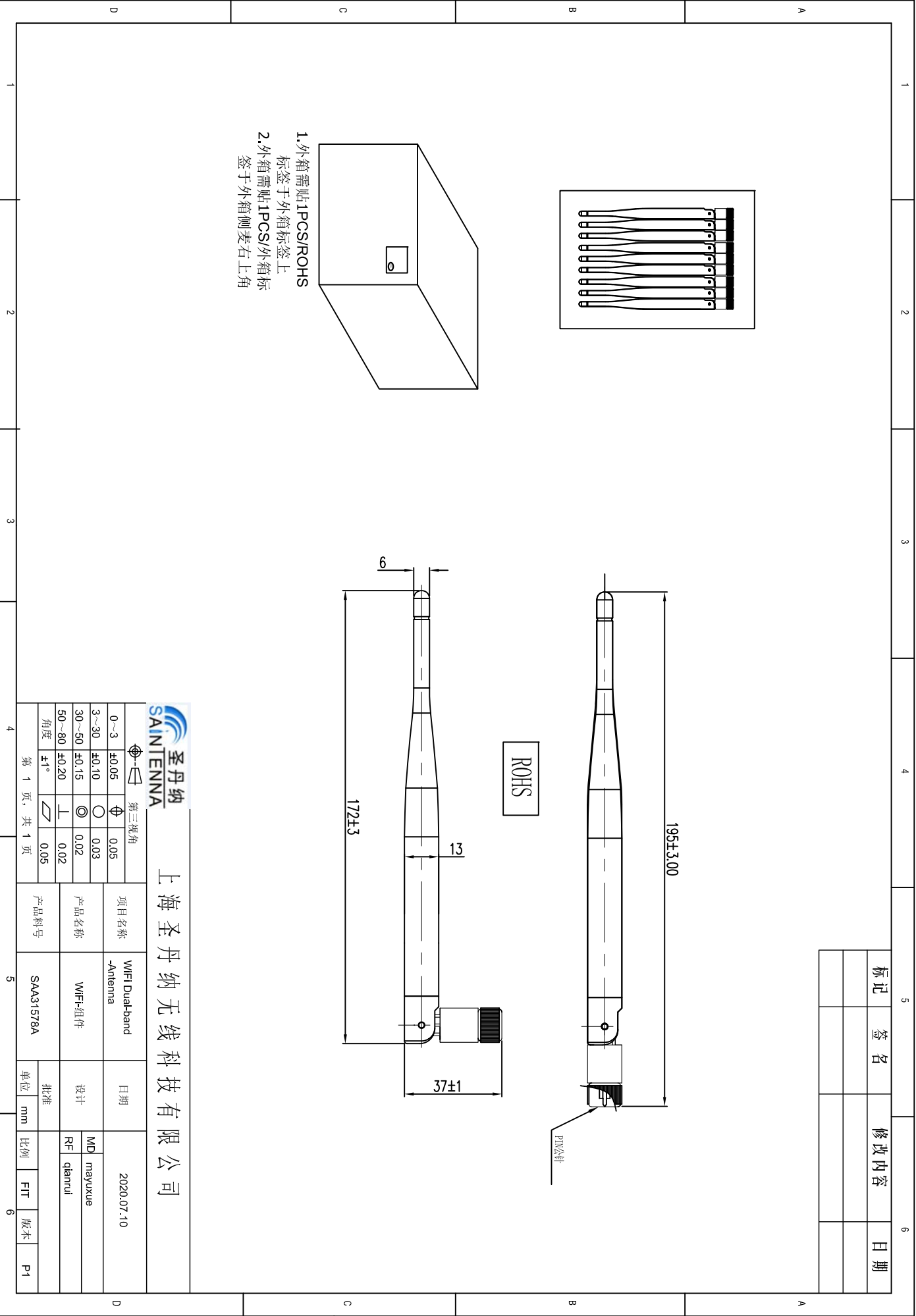


ROHS



上海圣丹纳无线科技有限公司

第三视角		项目名称	WIFI Dual-band -Antenna	日期	2020.07.10	
0~3	±0.05	Φ	0.05	设计	MD	mayuxue
3~30	±0.10	○	0.03	产品名称	RF	qiannui
30~50	±0.15	◎	0.02	产品料号	SAA31578A	
50~80	±0.20	⊥	0.02	单位	mm	比例
角度	±1°	∠	0.05	批准	单位	mm
第 1 页, 共 1 页		SAA31578A		单位	mm	比例





# 移远0dBi双频WiFi天线调试报告

Quectel 0dBi Dual band WiFi Antenna Commissioning Report

上海圣丹纳无线科技有限公司

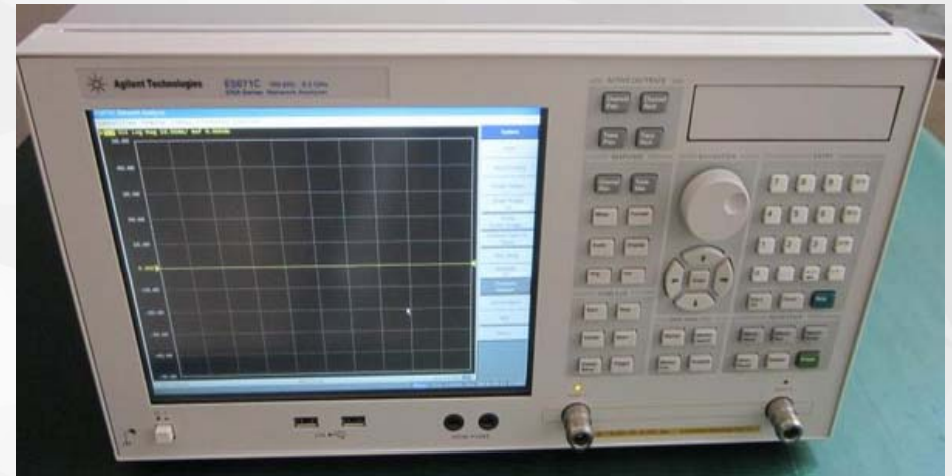
Shanghai Saintenna Wireless Technology Co.,LTD.

# Project Information

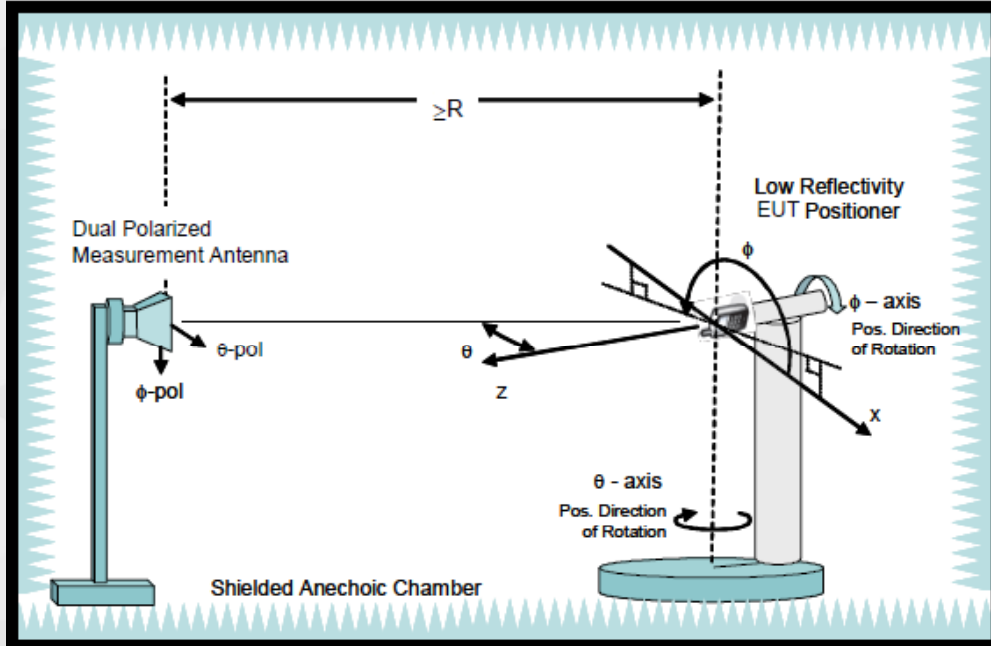
客户名称 Customer Name	移远 Quectel
项目名称 Project Name	0dBi双频WiFi天线 0dBi dual band WiFi antenna
工作频段 Working Band	2.4G/5.8GHZ
规格 Description	SMA-Male
版本 Version	V1.0
日期 Date	2020-7-10

# Debug Instrument

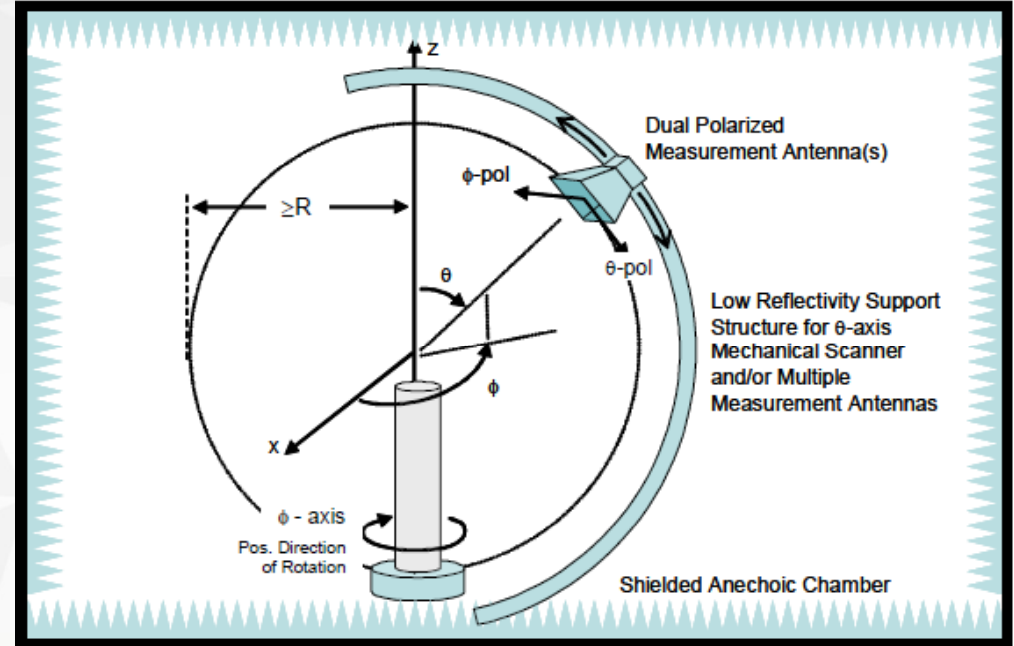
Network Analyzer	Agilent E5071C
Frequency Range	100KHz ~ 8.5GHz
Test Item	Return Loss/VSWR/Smith Chart /Isolation



# Typical Setup for Test System



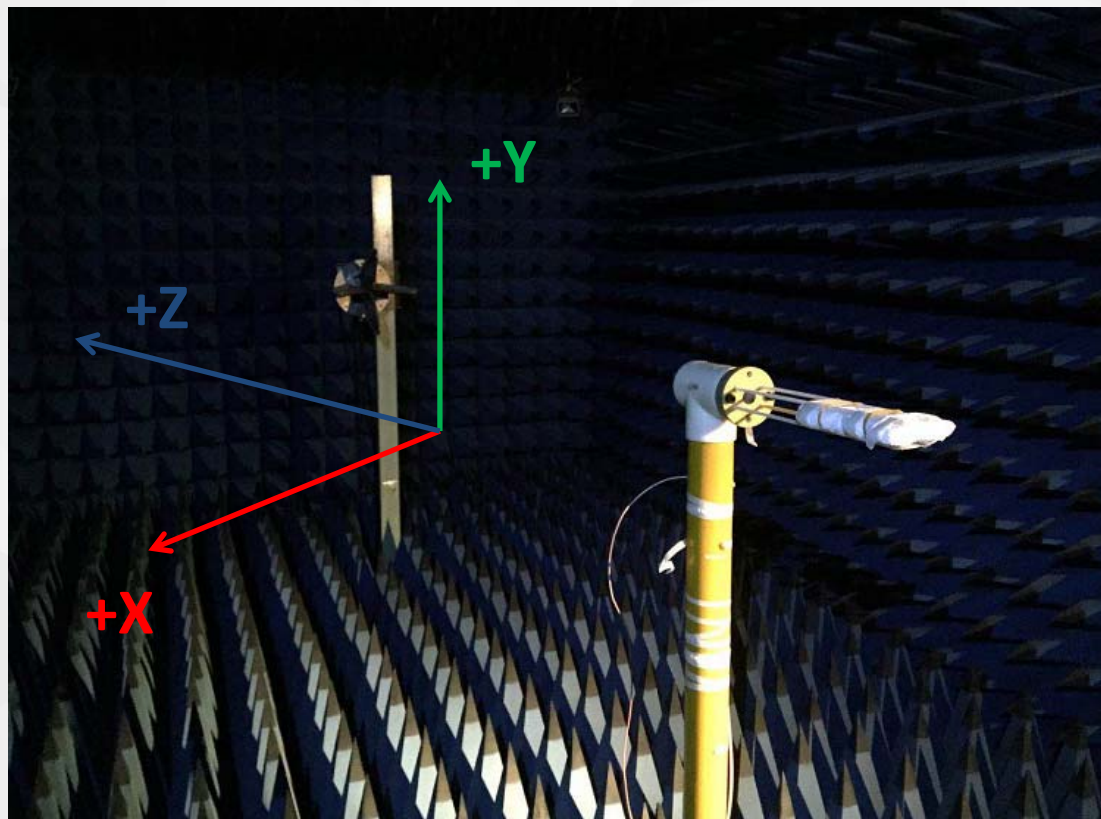
Combined-Axes System



Distributed-Axes System



# Anechoic Chamber



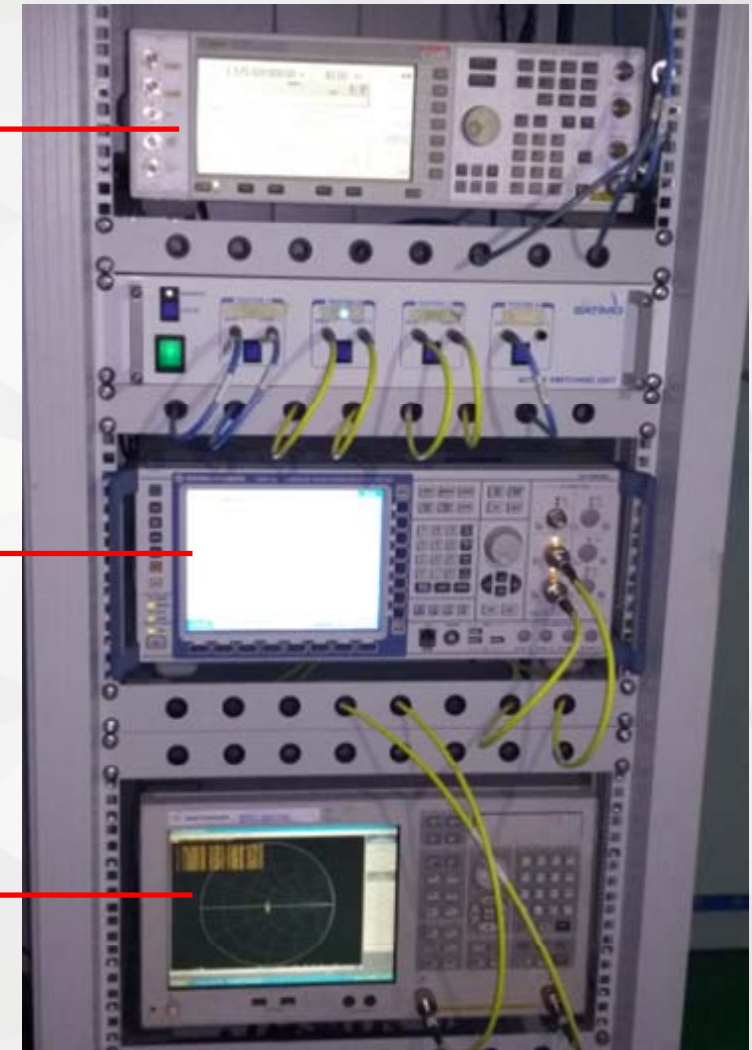
Combined-Axes System

# Test Instrument

Generator	Agilent E4438C
Test Item	GPS

Radio Communication Tester	R&S CMW500
Test Item	Active Test

Network Analyzer	Agilent E5071C
Test Item	Passive Test



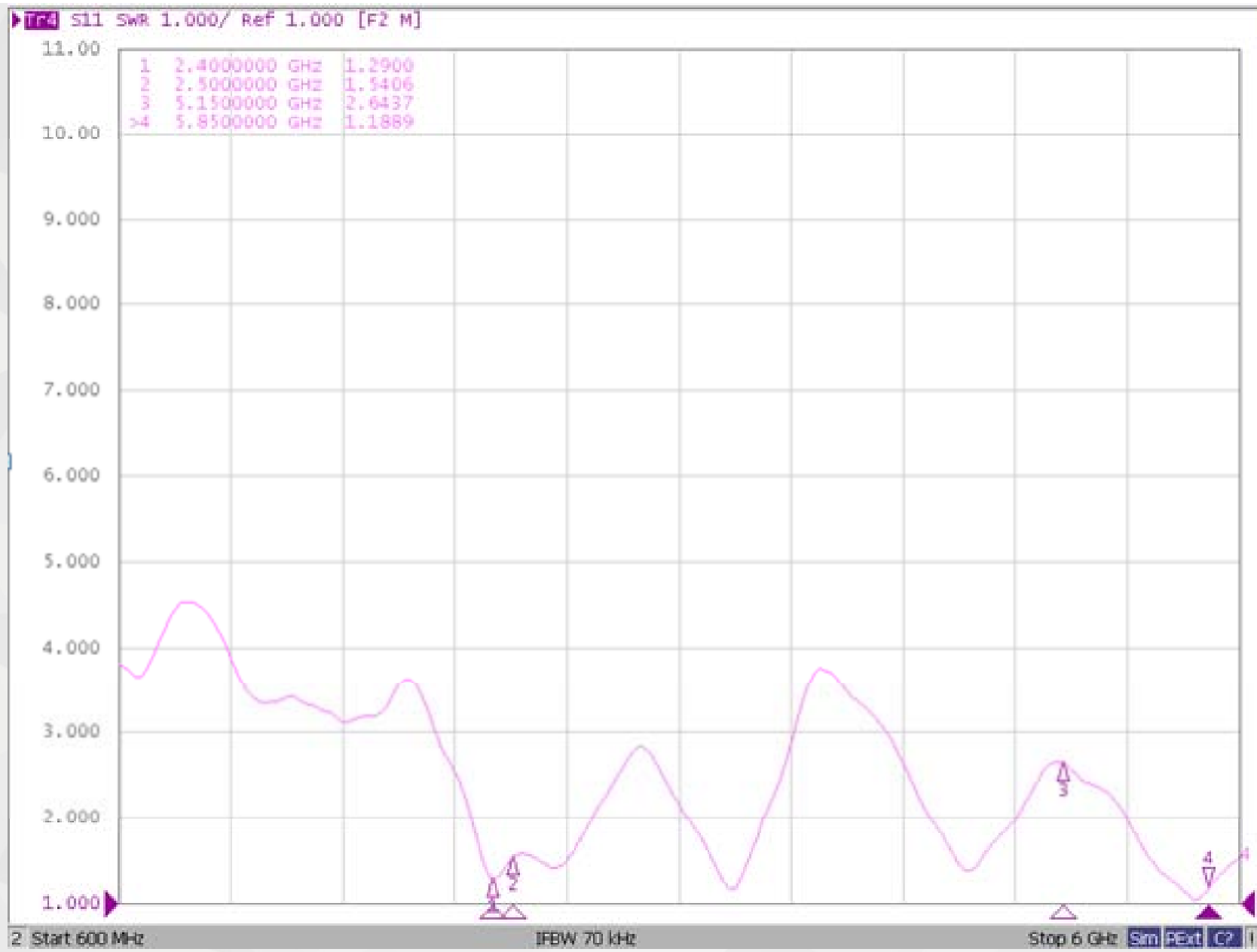
# Test Fixture



# S11 Return Loss



# S11 VSWR

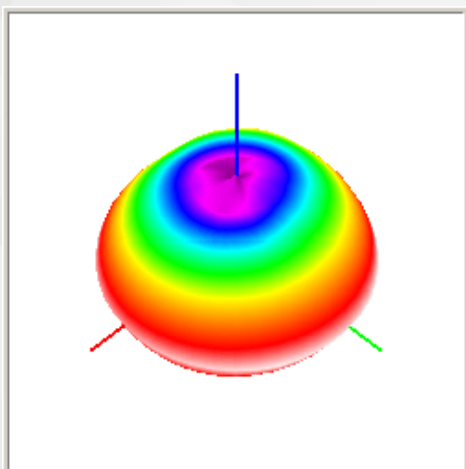


# Gain/Efficiency

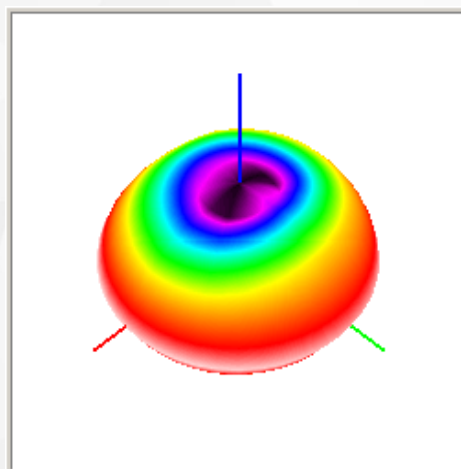
Freq.(MHz)	Gain(dBi)	Efficiency	Freq.(MHz)	Gain(dBi)	Efficiency
2400	0.25	51.60%	5150	-0.91	30.80%
2410	0.47	51.80%	5200	-0.69	40.60%
2420	-0.02	49.00%	5250	-0.67	41.30%
2430	-0.12	46.60%	5300	-0.19	44.20%
2440	-0.04	46.50%	5350	-0.92	36.70%
2450	-0.55	45.60%	5400	-0.02	43.40%
2460	-0.34	45.00%	5450	0.49	43.50%
2470	-0.11	44.70%	5500	0.65	41.00%
2480	-0.02	43.80%	5550	0.39	35.80%
2490	-0.11	43.40%	5600	1.09	42.70%
2500	-0.24	43.50%	5650	1.28	45.70%
			5700	0.48	37.10%
			5750	0.16	32.10%
			5800	1	36.40%
			5850	1.1	38.80%

# Test Result

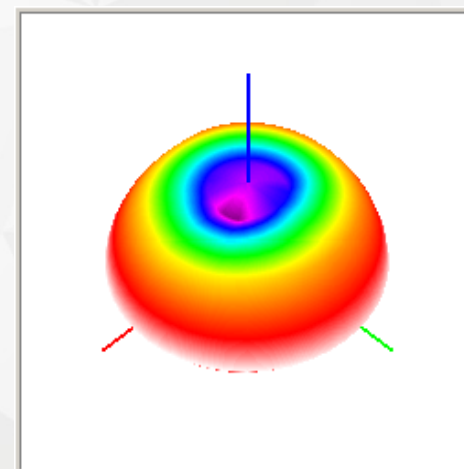
Frequency(GHz)	2.4	2.45	2.5
VSWR	1.29	1.4	1.54
Gain(dBi)	0.25	-0.55	-0.24



2.4GHz



2.45GHz

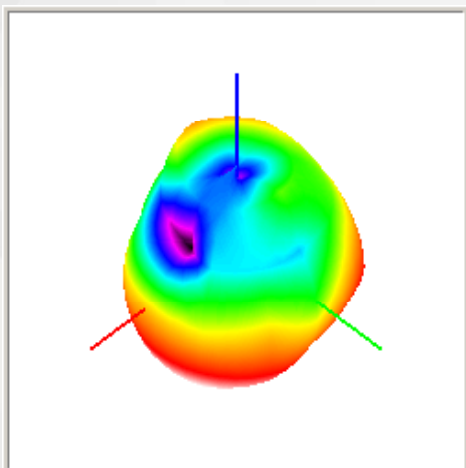


2.5GHz

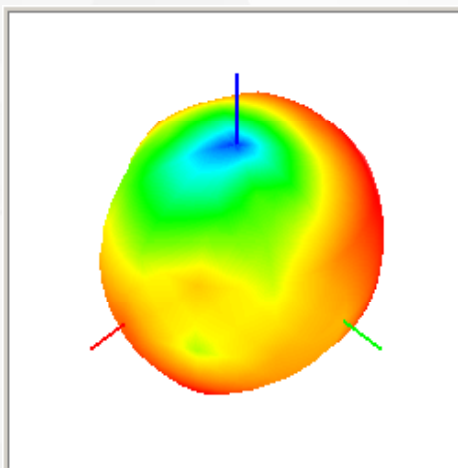


# Test Result

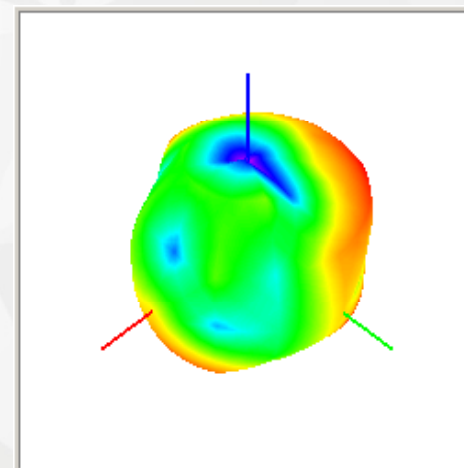
Frequency(GHz)	5.15	5.5	5.85
VSWR	2.64	1.8	1.18
Gain(dBi)	-0.91	0.65	1.1



5.15GHz



5.5GHz



5.85GHz