



深圳市顺达成科技有限公司
SHUN DA CHENG TECHNOLOGY CO., LTD

承 认 书
SPECIFICATION FOR APPROVAL

客户名称 Customer Name	昱科		
客户项目名 Customer Project Name	G1521N	顺达成项目名 SDC Project Name	G1521N
客户编码 Customer P/N		顺达成料号 SDC P/N	WF029-0813R-327
频段 Band	WIFI2. 4G/BT		
版本号 Version	A0		
设计人信息/Designer Information			
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审批/ Approval				客户批准/Customer Approval	
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修订履历/Change Log				
版本 Version	修订内容 Change Description	责任人 Person in Charge	核准 Approval By	日期 Date

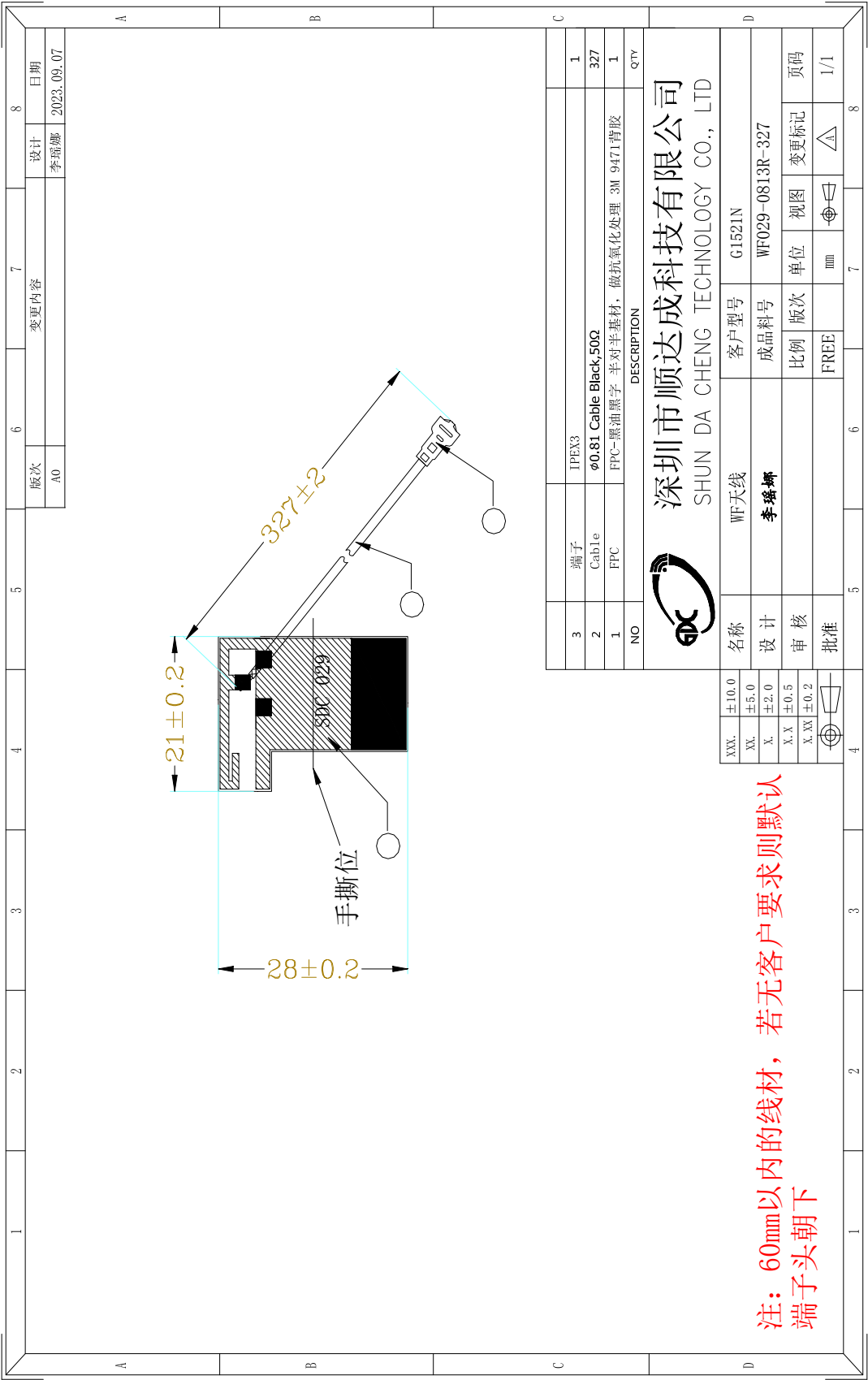


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产品图纸或实物图片
Drawing or Product Image





射频性能测量报告

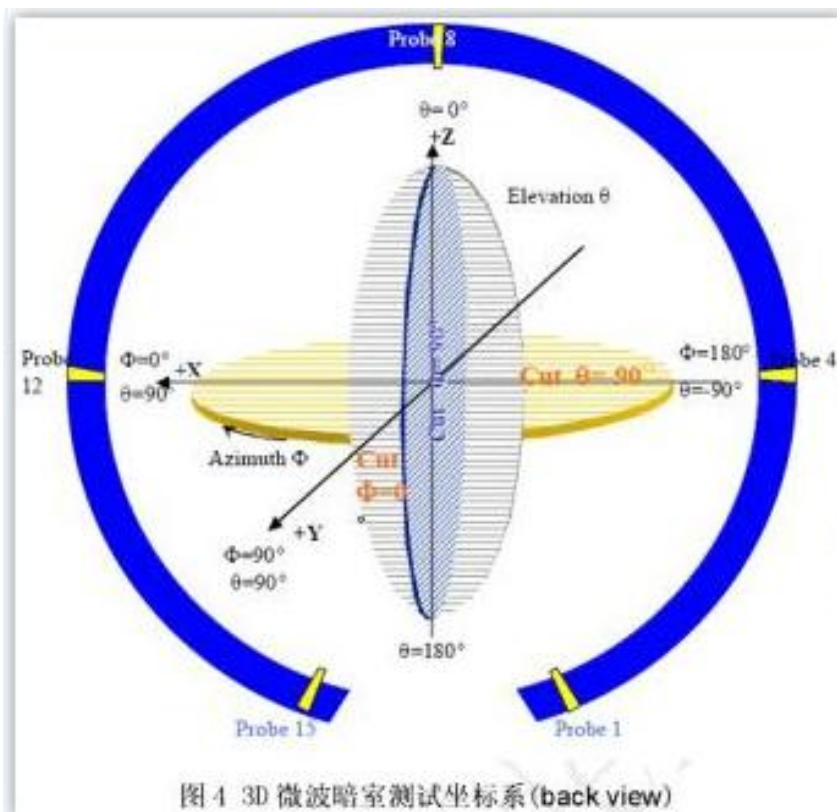
RF Performance Test Report

天线测试设备简介

Antenna Test Equipment Introduction

测试天线输入特性使用 **Agilent E5071C** and **Agilent 5062A** 矢量网络分析仪；辐射特性利用广屏三维近场暗室进行测试，并分别使用 8960 E5515 和 Agilent E4438C 进行了分析。暗房的测试坐标如下：

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:



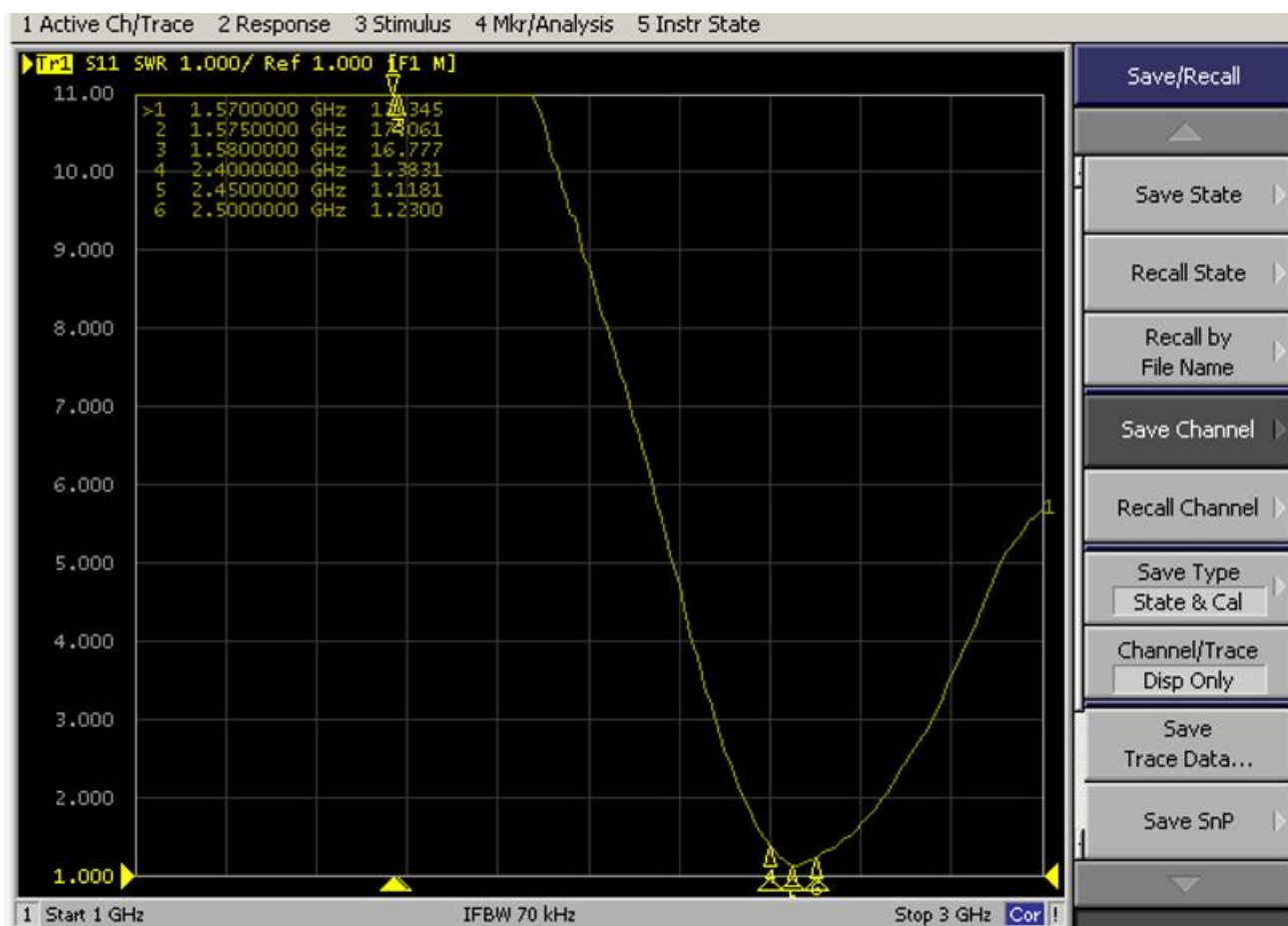
1. S11 参数测量/S11 Parameter-VSWR

使用一根 50 Ω 同轴电缆连接到天线，然后该电缆连接到网络分析仪测量 S11 参数，被测量产品远离金属至少 20 厘米。

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



S11 Parameter-VSWR



2. 天线匹配网络/Antenna Matching Network

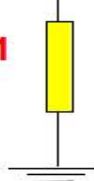
Antenna



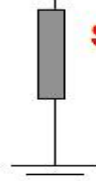
Series
N/A

PA

Shunt 01
N/A



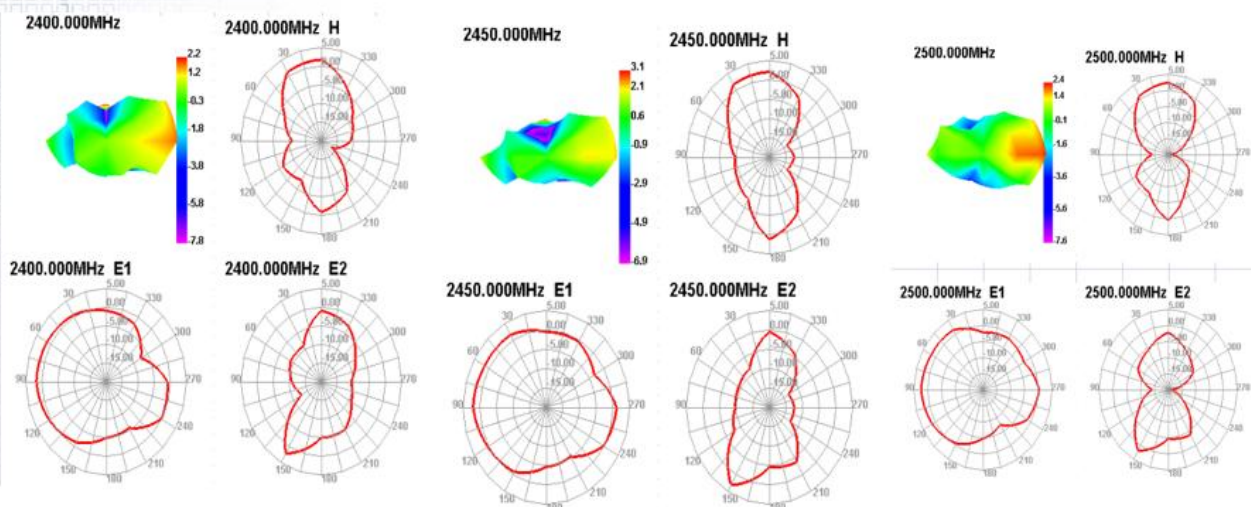
Shunt 02
N/A





3. Gain & Efficiency

Passive Test For WIFI 2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	49.04	-3.09	2.21	0.06	0	0	2.21	-16.36	3.09	120	48.23	48.39
2425	53.86	-2.69	3.59	1.44	0	0	3.59	-16.21	2.69	150	48.33	48.46
2450	53.22	-2.74	3.13	0.98	0	0	3.13	-13.92	2.74	180	48.74	48.76
2475	48.68	-3.13	2.28	0.13	0	0	2.28	-16.9	3.13	90	48.36	48.29
2500	50.59	-2.96	2.38	0.23	0	0	2.38	-20.25	2.96	90	48.38	48.29



4. WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	12.78	12.63	12.02
TIS	-80.89	-80.75	-81.2