Shenzhen Ruifeng Electronic Technology Co., Ltd

SPECIFICATION FOR APPROVAL

Customer Name	WHD		
ustomer Project Name	T632PRO-STA X15	Project Name	T632PRO-STA X15
Customer P/N		P/N	WF5266B-1131L-200(X15)
Band	2.4G/5.8G		
Version	A0		
Designer Information			
RF Engineer		R&D Diretor	
ME Engineer			

Manufacturer: Shenzhen Ruifeng Electronic Technology Co., Ltd

Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen

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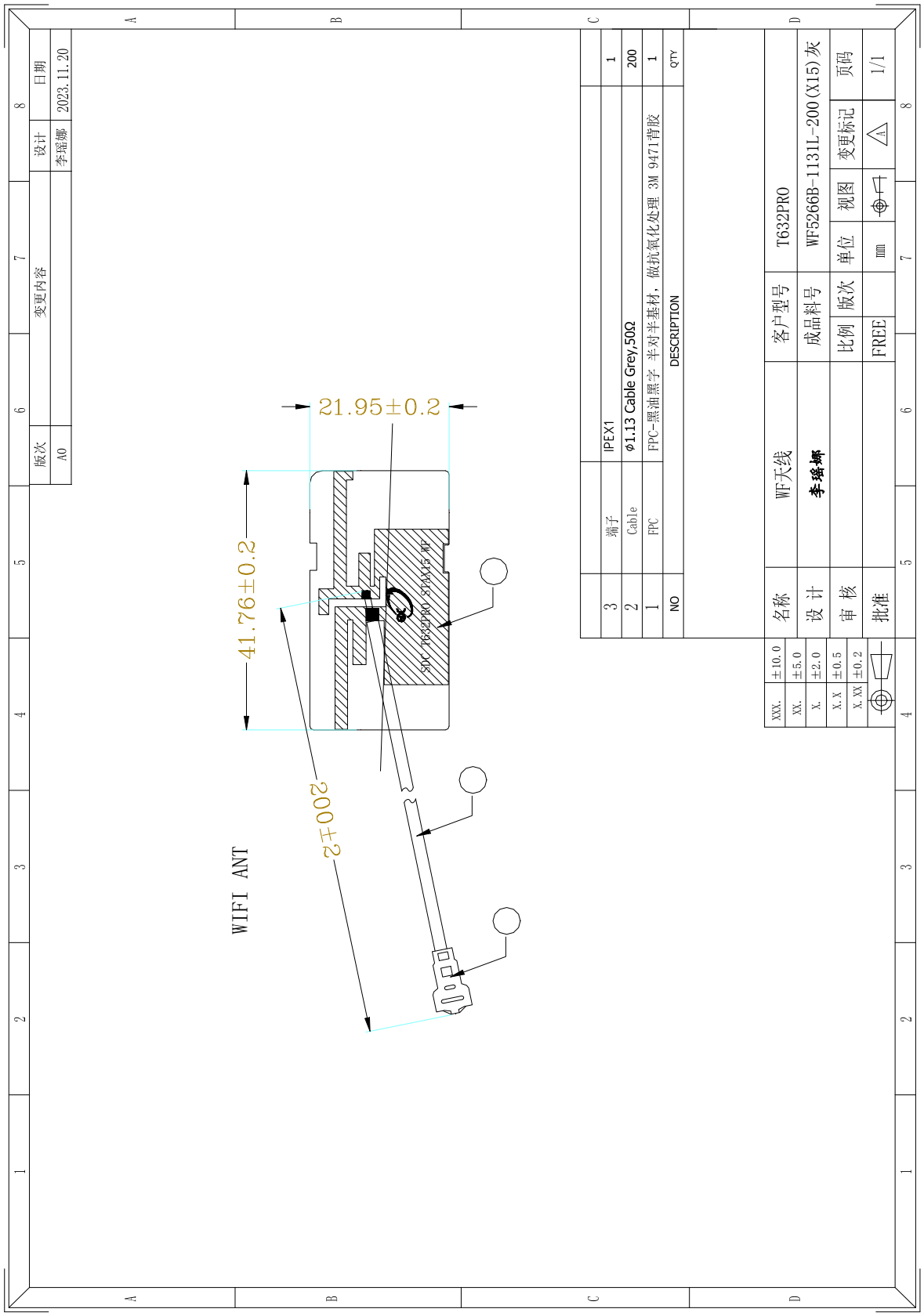
Shenzhen Ruifeng Electronic Technology Co., Ltd

Catalogue

Shenzhen Ruifeng Electronic Technology Co., Ltd

Drawing or Product Image



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Sample Dimensions Test Report

Test Date	2024.2.23	Sample Qty.	3	Inspector	
Dimension No.	Standard	Sample 1	2 Sample 2	3 Sample 3	Pass/NG
①L	41.76±0.2mm	41.8	41.9	41.8	Pass
②W	21.95±0.2mm	21.95	21.95	22.05	Pass
③H	0.1±0.03mm	0.1	0.1	0.1	Pass
④CL	200±2mm	200	201	200	Pass
Conclusion					PASS
Inspector & Date	2024.2.23		Approval &D ate		

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RF Performance Test Report

Antenna Test Equipment Introduction

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:

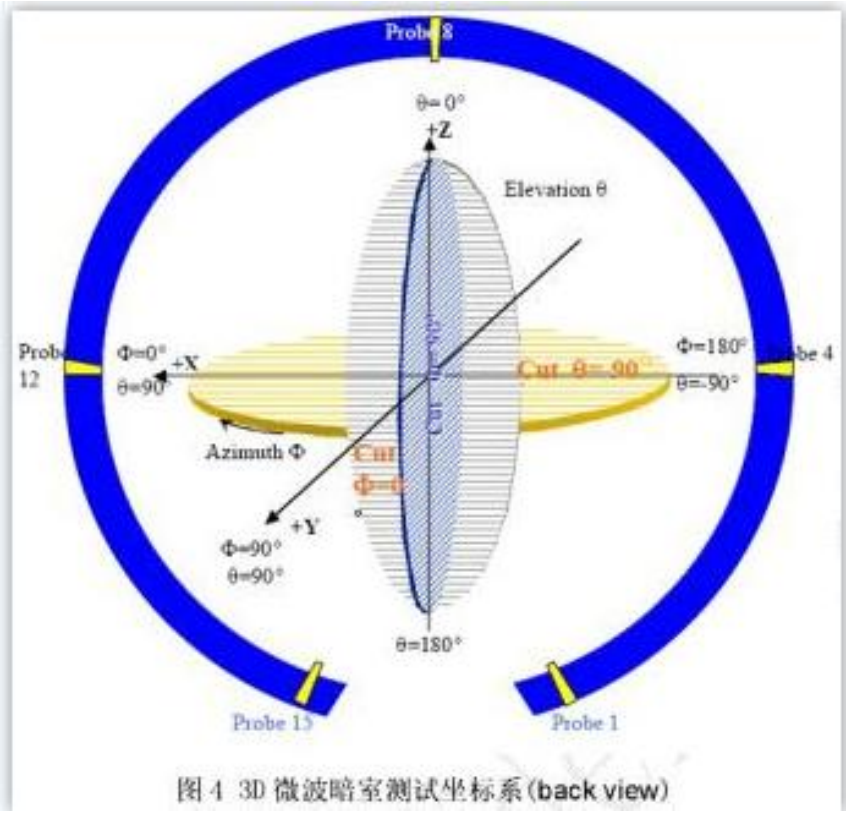
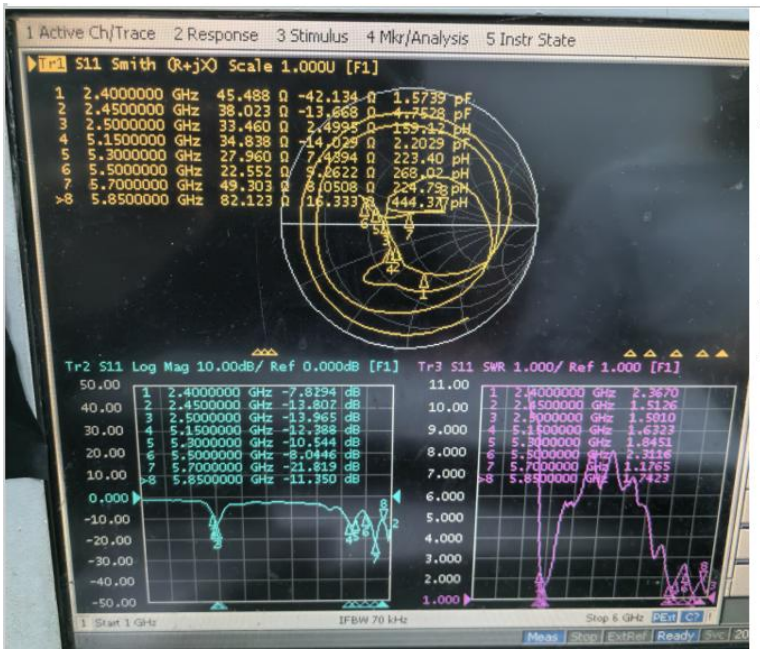


图 4 3D 微波暗室测试坐标系(back view)

1. *S11 Parameter-VSWR*

Measuring Method is a 50Ω 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

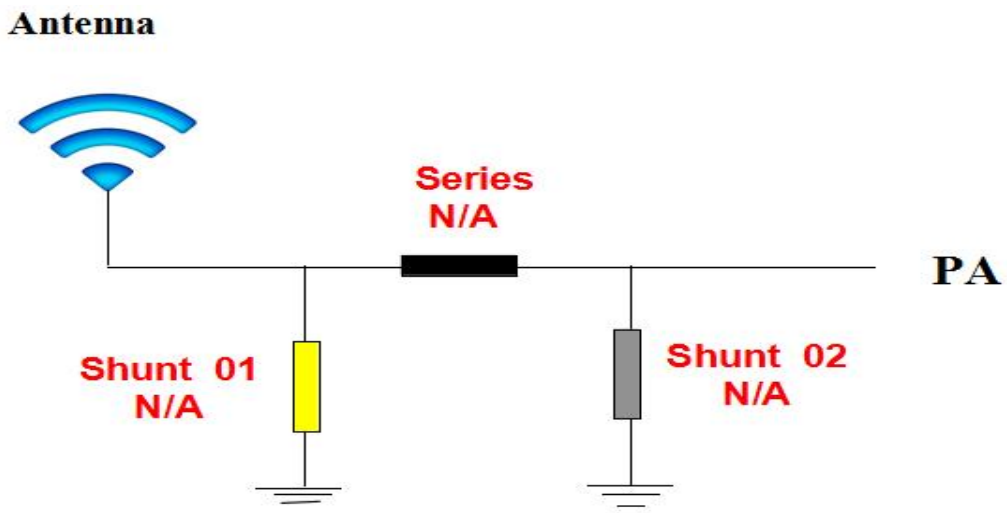


频率(MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
驻波比	2.36	1.51	1.5	1.63	1.84	2.31	1.17	1.74

频率(MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
阻抗	45.4Ω	38Ω	33.4Ω	34.8Ω	27.9Ω	22.5Ω	49.3Ω	82.1Ω

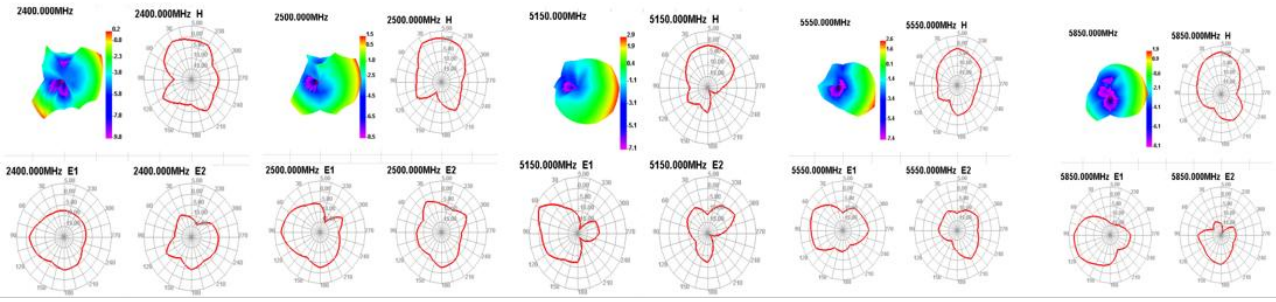
频率(MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
回损	-7.8	-13.8	-13.9	-12.3	-10.5	-8	-21.8	-11.3

2. **Antenna Matching Network**



3.Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	33.47	0.22
2450	39.14	1.47
2500	41.09	1.52
5150	35.84	2.93
5350	33.51	2.58
5550	33.37	2.6
5750	35.35	2.78
5850	33.27	1.92



4. Isolation degree

STA-(X15-X16)隔离度

频率(MHZ)	2400	2450	2500	5150	5350	5550	5750	5850
隔离度	-24.7	-25.3	-20.4	-26.3	-34.2	-40.7	-26.9	-26.4