



Shenzhen Ruifeng Electronic Technology Co., Ltd

SPECIFICATION FOR APPROVAL

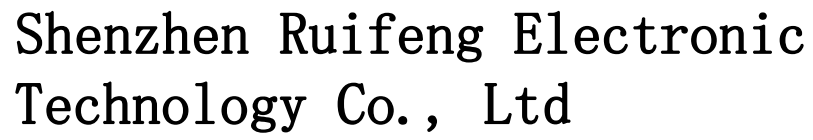
Customer Name	WHD		
Customer Project Name	T632PRO-STA X16	Project Name	T632PRO-STA X16
Customer P/N		P/N	WF5265B-1131L-175 (X16)
Band	2. 4G/5. 8G		
Version	A0		
Designer Information			
RF Engineer		R&D Diretor	
ME Engineer			

Manufacturer: Shenzhen Ruifeng Electronic Technology Co., Ltd

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

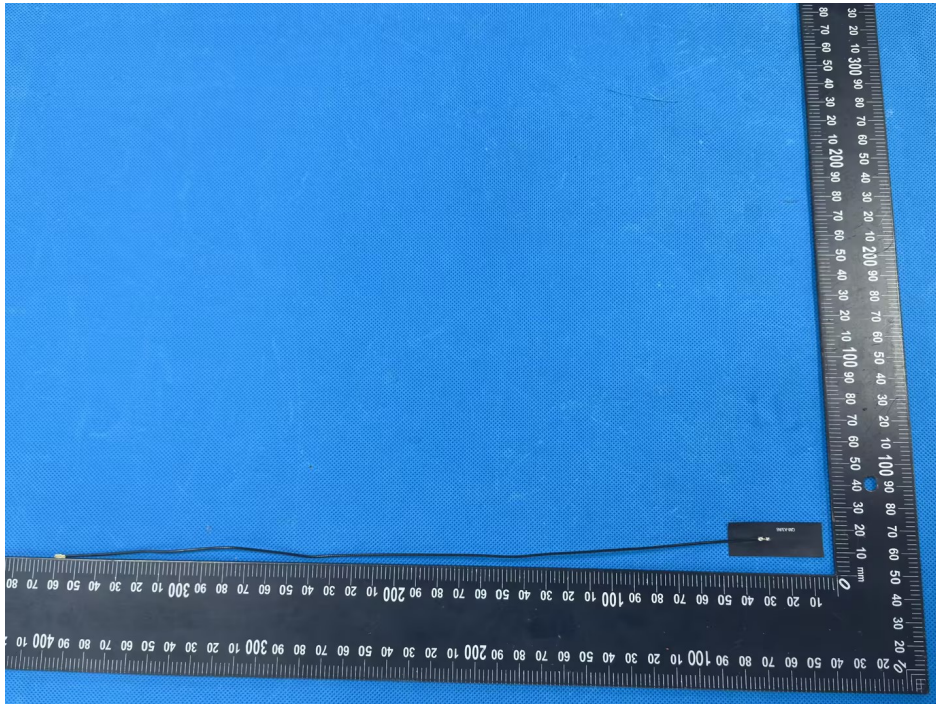
Phone: 0755-27211658

FAX:0755-29485750

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Drawing or Product Image

Internal Antenna



Unit: mm



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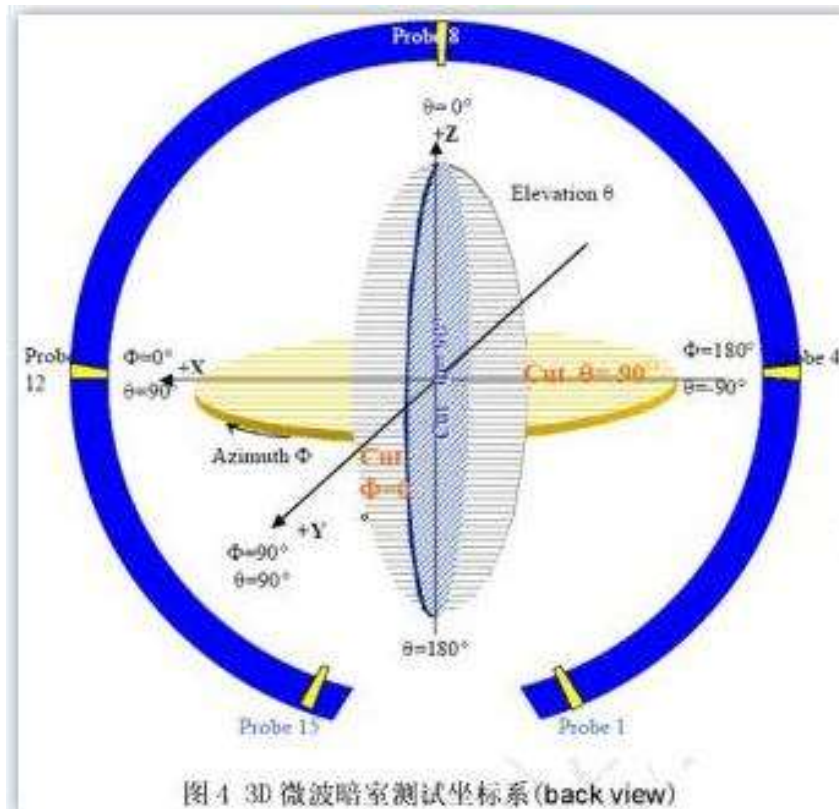
Sample Dimensions Test Report

Test Date	2024. 2. 23	Sample Qty.	3	Inspector	
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①Long	41. 76±0. 2mm	41. 8	41. 9	41. 8	Pass
②Width	21. 95±0. 2mm	21. 95	21. 95	22. 05	Pass
③High	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④Line length	175±2mm	175	175	176	Pass
Conclusion					PASS
Inspector & Date			Approval & Date		

RF Performance Test Report

Antenna Test Equipment Introduction

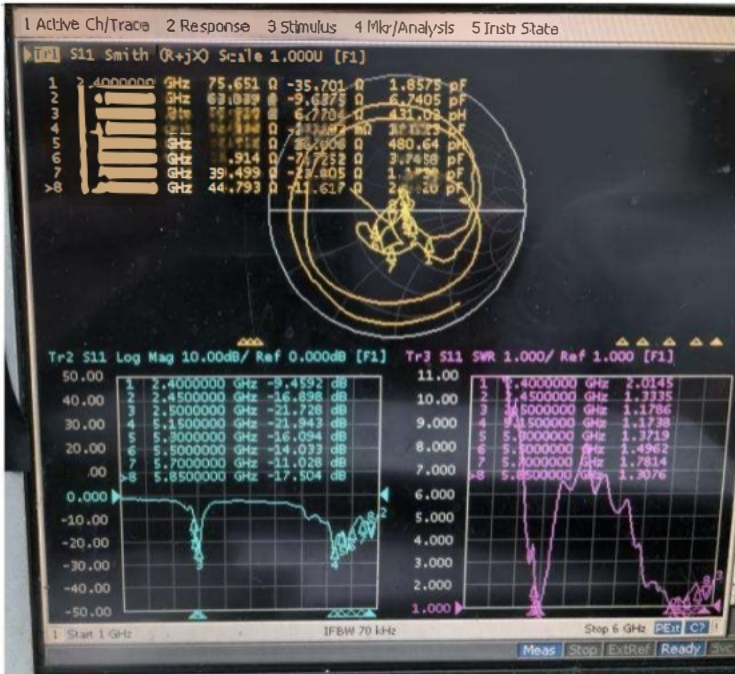
Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of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



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



Freq (MHz)	2400	2450	2500	5150	5300	5500	5700	5850
VSWR	2.01	1.33	1.17	1.17	1.37	1.49	1.78	1.3

Freq (MHz)	2400	2450	2500	5150	5300	5500	5700	5850
Imp	75.6 Ω	63 Ω	55.3 Ω	58.6 Ω	53.9 Ω	34.9 Ω	39.4 Ω	44.7 Ω

Freq (MHz)	2400	2450	2500	5150	5300	5500	5700	5850
RB	-9.4	-16.8	-21.7	-21.9	-16	-14	-11	-17.5

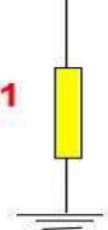
2. Antenna Matching Network

Antenna

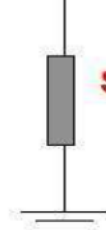


Series
N/A

Shunt 01
N/A



Shunt 02
N/A



PA

3. Gain & Efficiency

4. Isolation degree

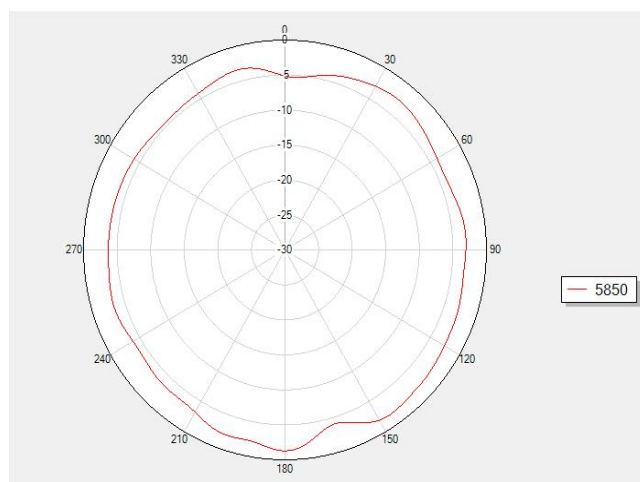
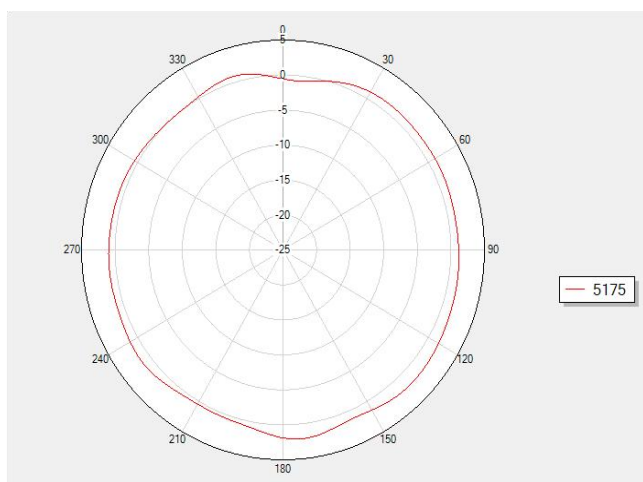
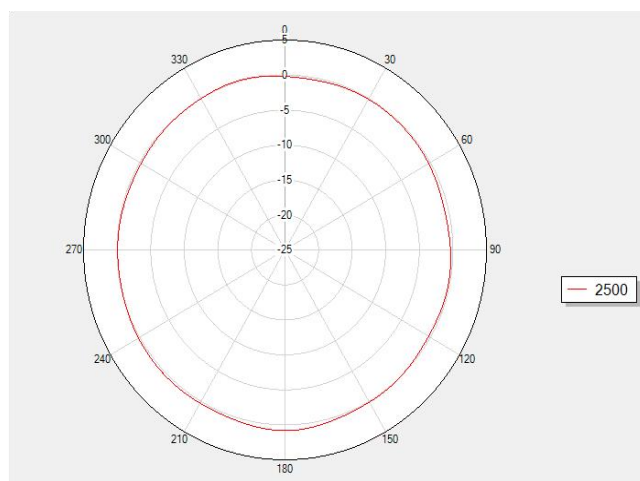
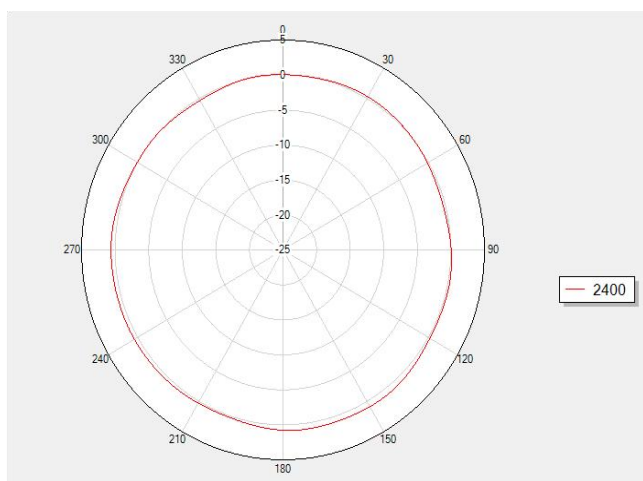
STA-(X15-X16)隔离度



Freq (MHZ)	2400	2450	2500	5150	5350	5550	5750	5850
Isolation level	-24.7	-25.3	-20.4	-26.3	-34.2	-40.7	-26.9	-26.4

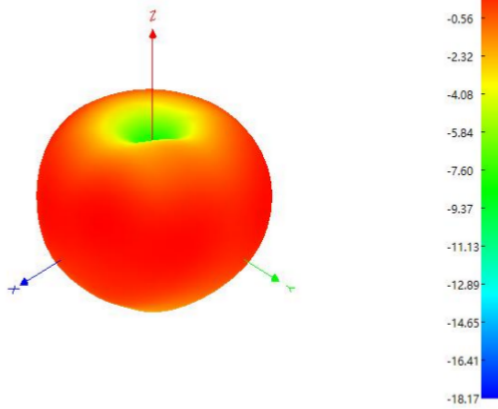
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	28.73	-2.2
2450	33.12	1.18
2500	39.78	2.08
5150	42.37	2.04
5350	41.02	2.45
5550	42.64	2.55
5750	36.49	3.03
5850	30.97	1.72

2D Radiation Pattern Diagram/ Radiation Patterns

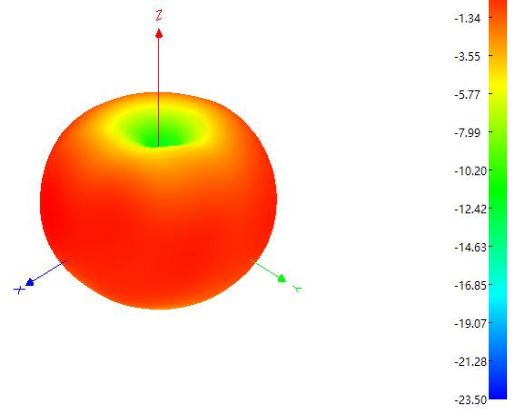


3D Radiation Pattern Diagram/3D Radiation Patterns

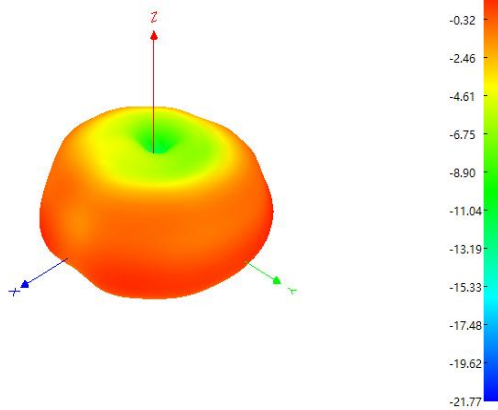
Frequency (MHz) : 2400



Frequency (MHz) : 2500



Frequency (MHz) : 5150



Frequency (MHz) : 5850

