Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	SaiWei
Project	**T182SWAC**
Project NO	XBY230357-WIFI

Date：2023/12/13

Shenzhen Xiangboyi Technology Co. Ltd
Tel: (+86)0755-29369912 Fax: (+86)0755-61624200
R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.
Production Base: 5 / F, building B, Huazhi chuanggu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Sample paste

Customer confirmation			
Engineer	**PM**	**Quality**	**Approval**

Supplier confirmation			
ME	**RF**	**Examine**	**Approval**

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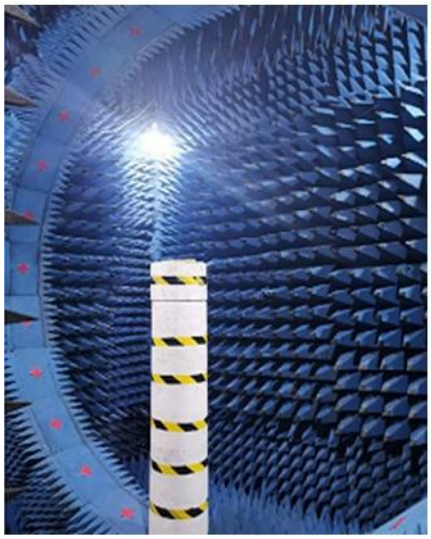
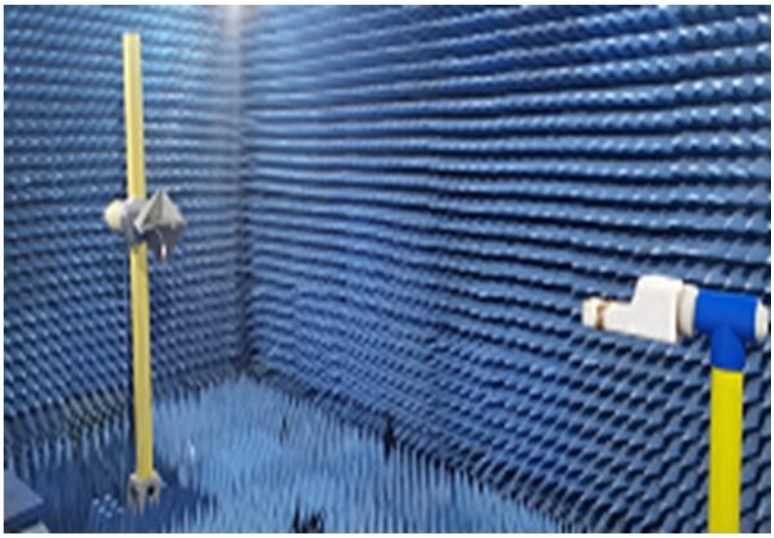
1 Test System and Equipment

	Test items	equipment
1：S parameter	1. Return loss 2. VSWR	Network analyzer: A338/A333/HP8753D
2：Active test		Comprehensive test instrument: Agilent 8960/ CMW500
3： Radiation mode and gain	1. Radiation mode 2. Gain	1. Shielding room：7x4x3 m (ETS-3D) 2. Network analyzer：HP 8753D

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2 Product Description

Technical requirements	Technical index	Remarks
Band	WIFI:2.4G	
Range Of Frequency	2400-2500Mhz;	
VSWR	<2.0	Center Frequency
Impendance	50Ω	
Polarization	Linear polarization	
operating temperature	-32℃ / +55℃	
storage temperature	-55℃ / +85℃	
Salt Fog	24h(24h alterning wet & dry)	
RoHS Compliant	yes	

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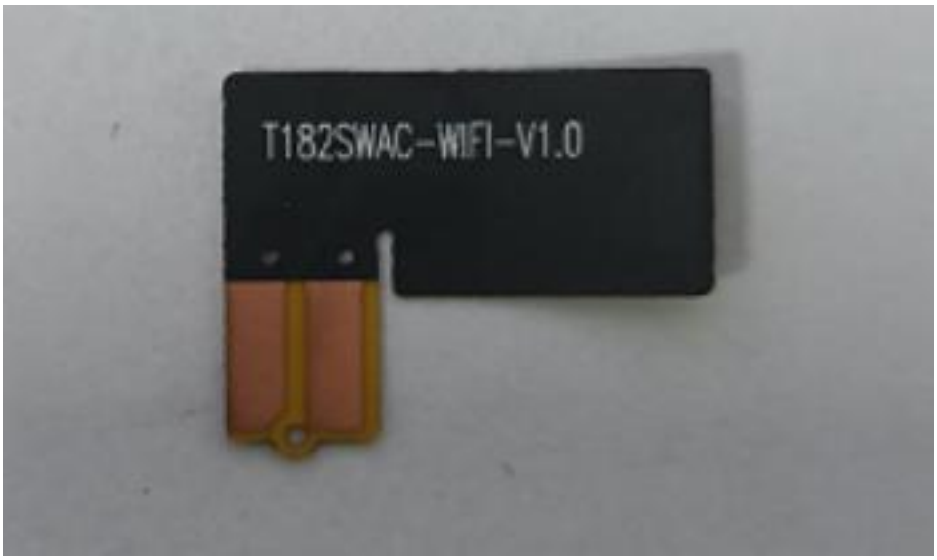
3 Device Description

The whole machine photo

Antenna photo



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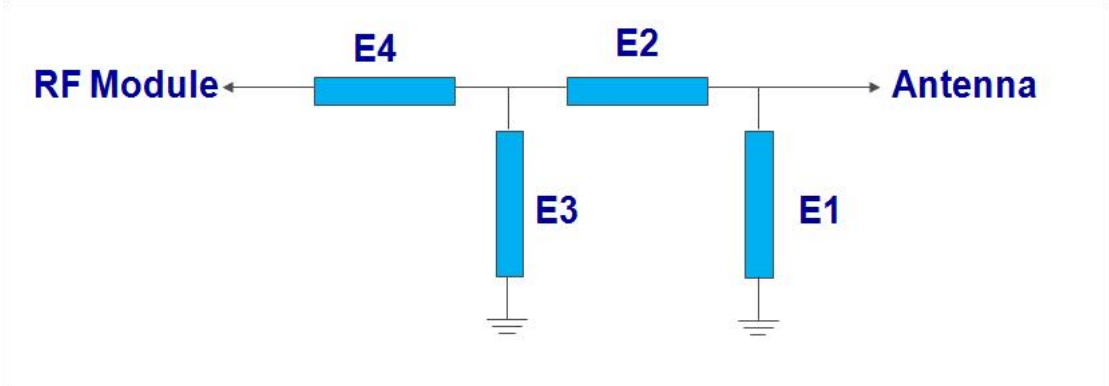
4 Matching Circuits



Element	Value	Vender
E1(0402)	NA	
E2(0402)	0Ω	
E3(0402)	NA	
E4(0402)	0Ω	

Original match unchanged.

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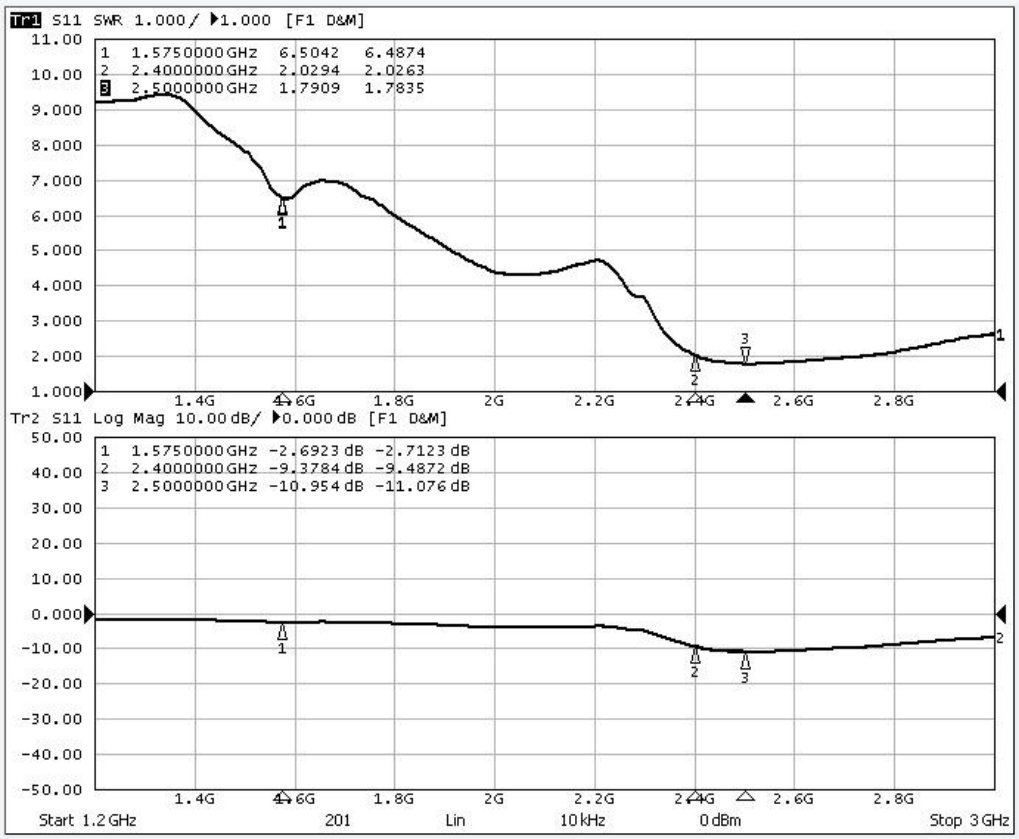
5 Test Data

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0.42	-5.58	27.66
2410	3.42	-5.25	29.83
2420	3.58	-5.05	31.27
2430	3.17	-5.2	30.18
2440	2.55	-5.52	28.05
2450	1.95	-5.82	26.18
2460	1.39	-6.29	23.51
2470	1.16	-6.42	22.8
2480	0.96	-6.3	23.44
2490	0.28	-6.3	23.44
2500	-0.27	-6.3	23.43



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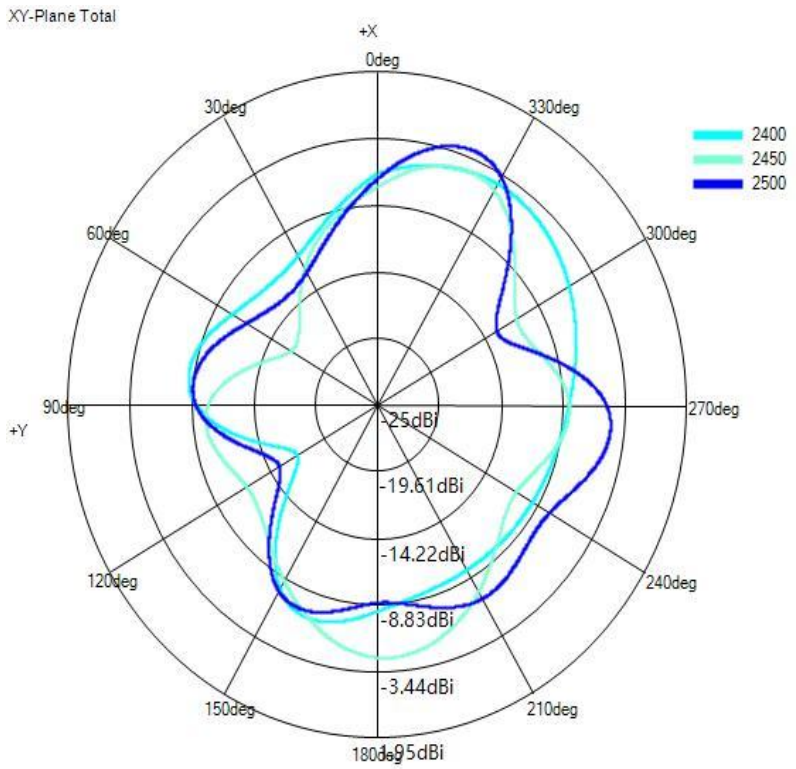

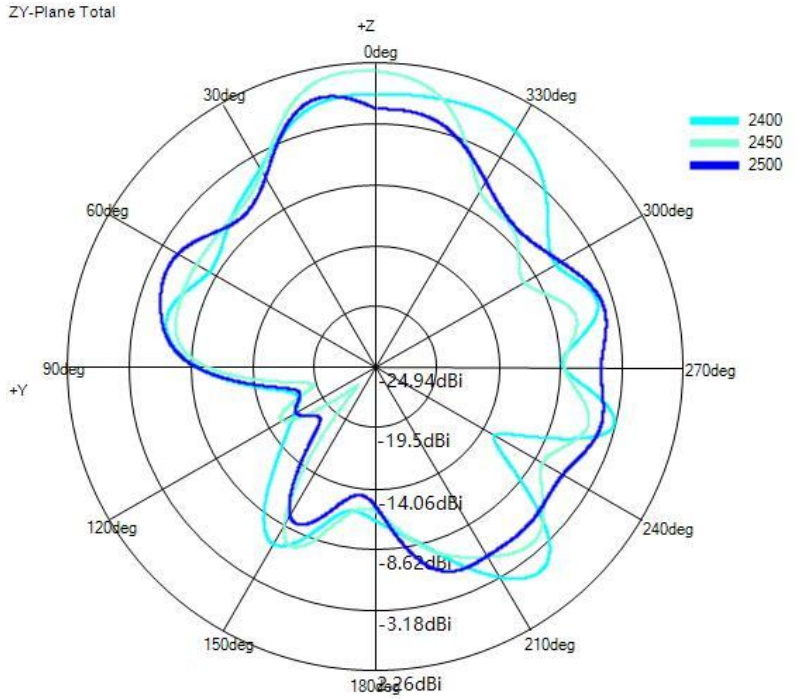

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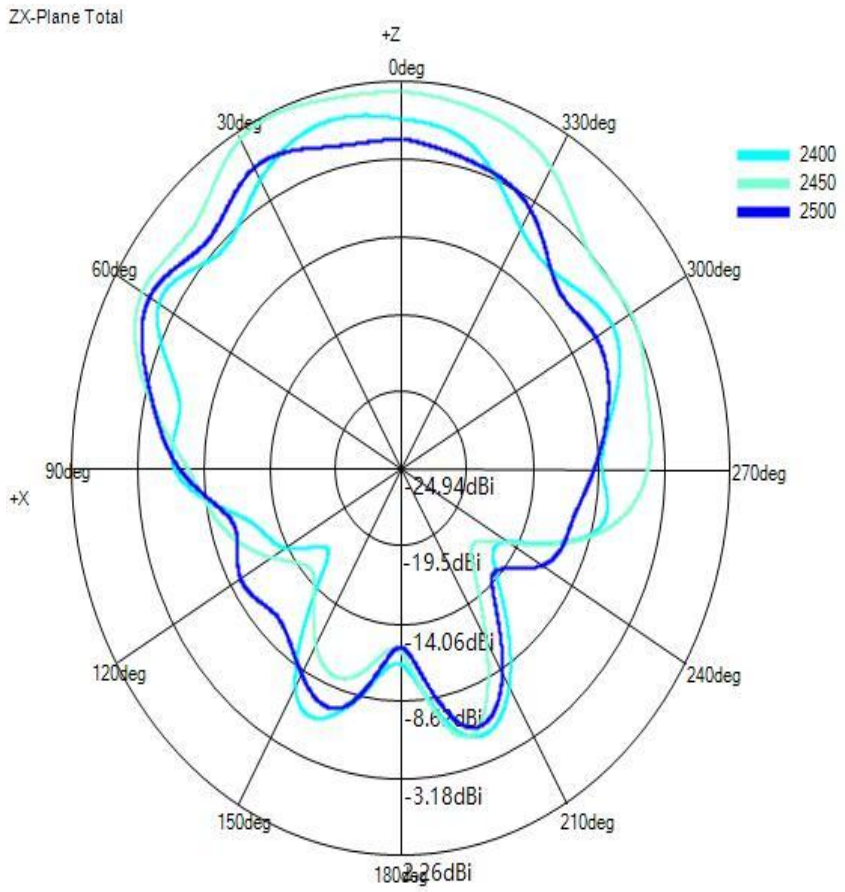

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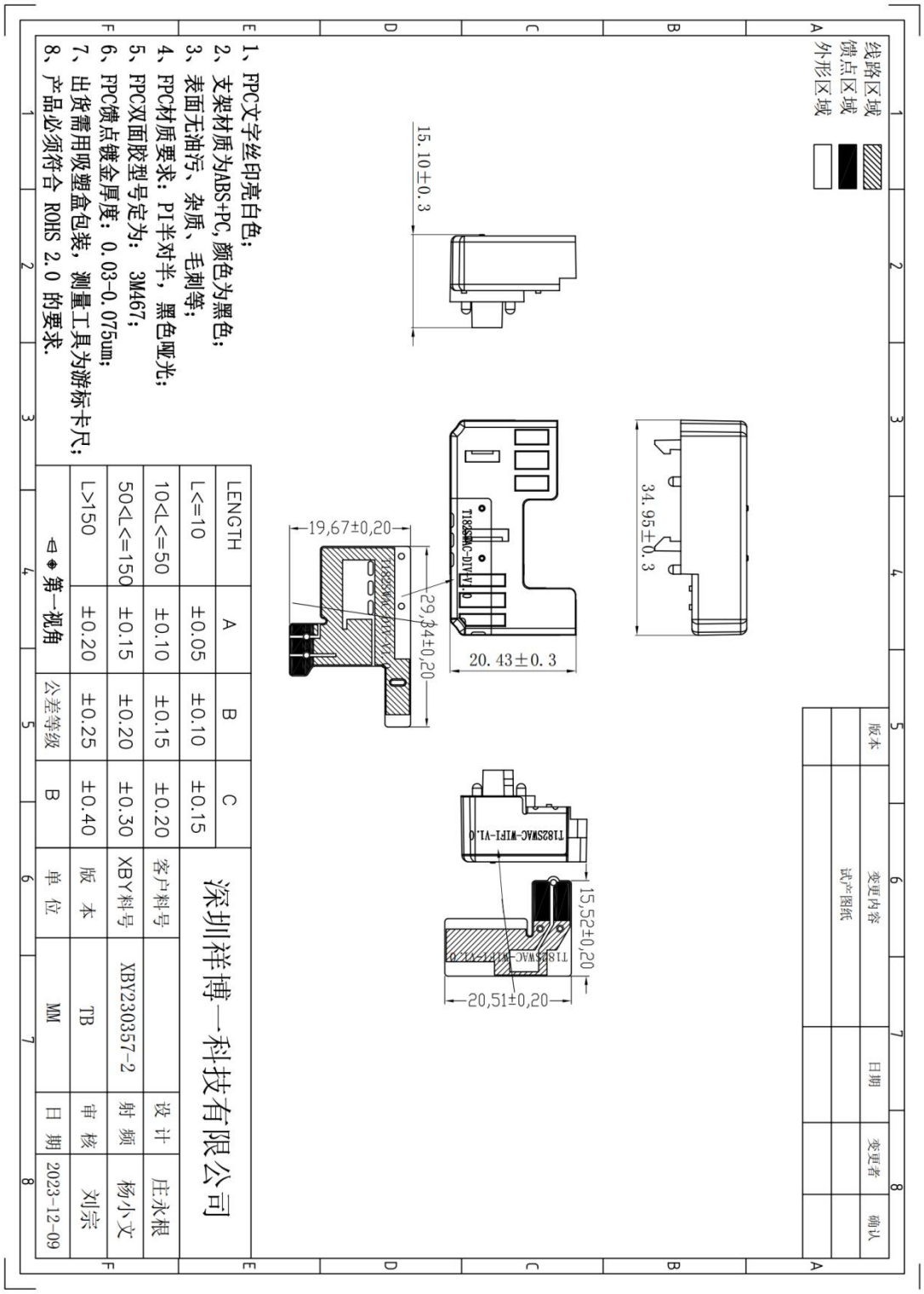
6 EngineeringDrawing



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