Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

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

Date：2023/12/13

Shenzhen Xiangboyi Technology Co. Ltd
Tel: (+86)0755-29369912 Fax: (+86)0755-61624200
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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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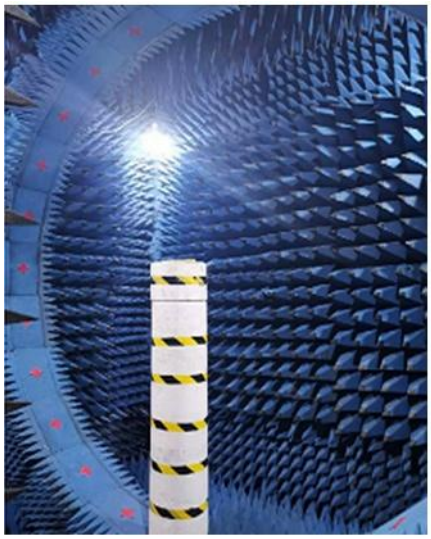
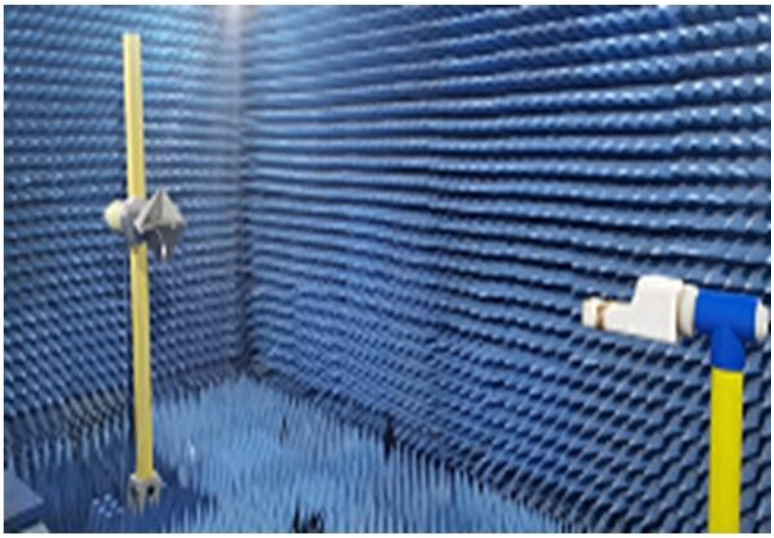
1 Test System and Equipment

	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	BT: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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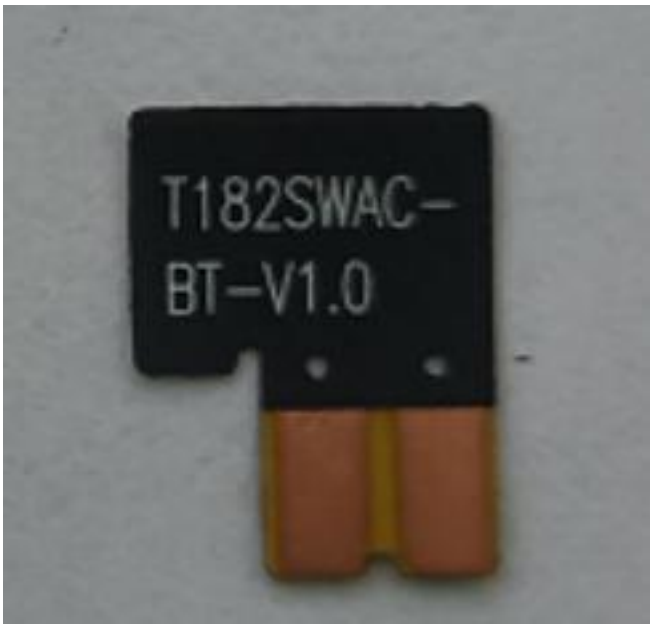
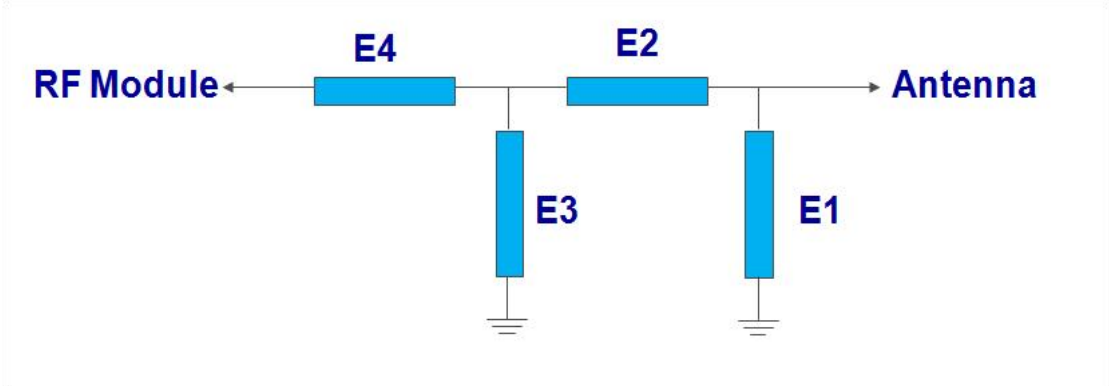
3 Device Description

The whole machine photo

Antenna photo



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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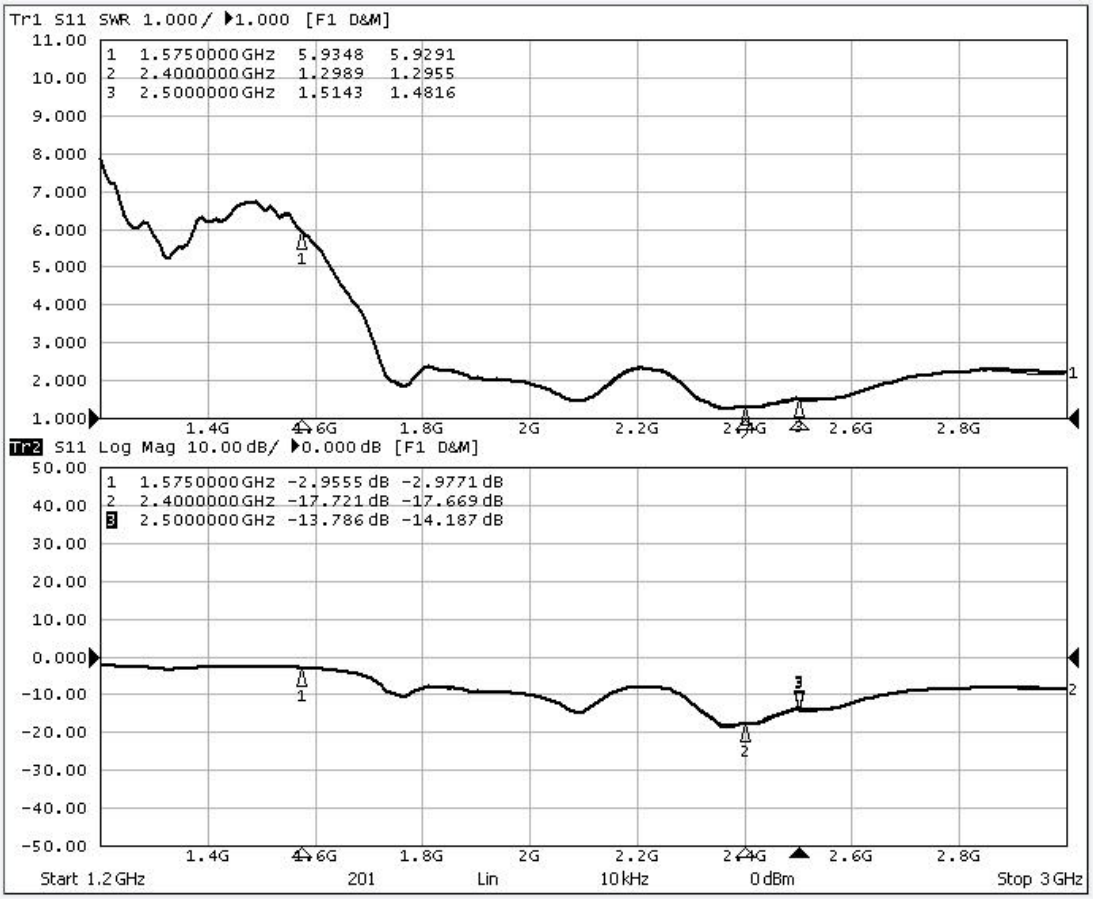
5 Test Data

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.05	-3.38	45.96
2410	0.69	-4.42	36.17
2420	0.78	-4.06	39.29
2430	1.02	-3.89	40.83
2440	1.32	-3.78	41.86
2450	1.48	-3.72	42.47
2460	1.52	-3.72	42.49
2470	1.64	-3.65	43.12
2480	1.62	-3.59	43.73
2490	1.34	-3.66	43.08
2500	1.07	-3.77	41.96



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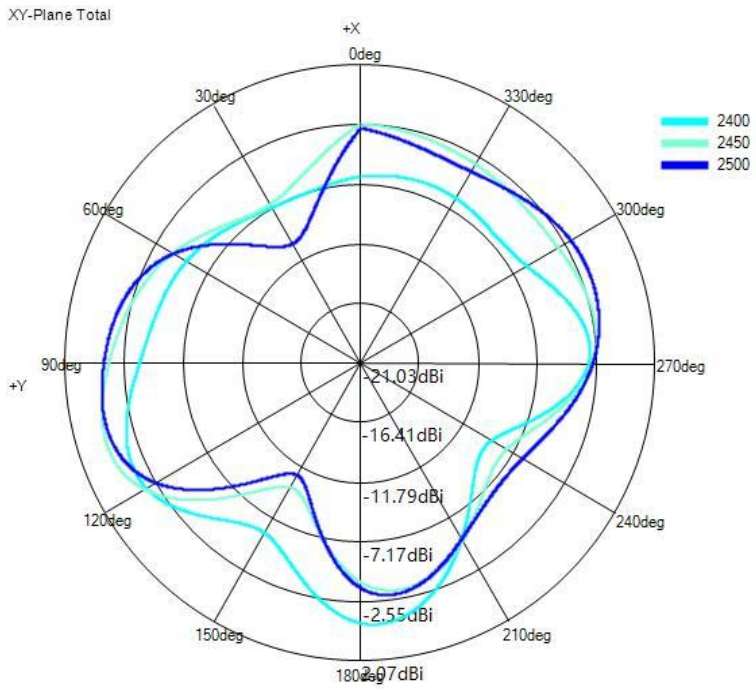

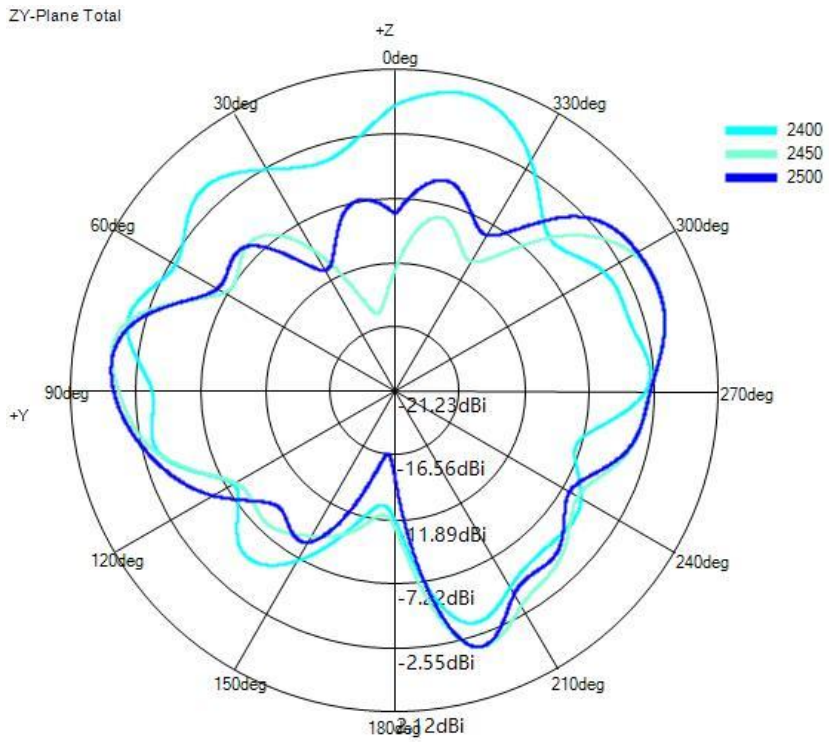

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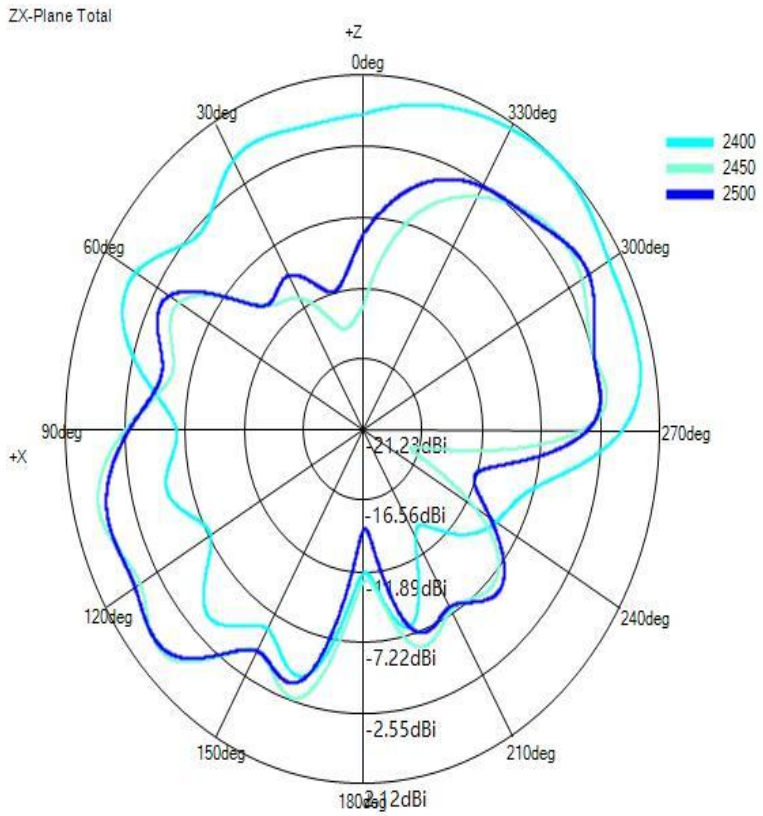

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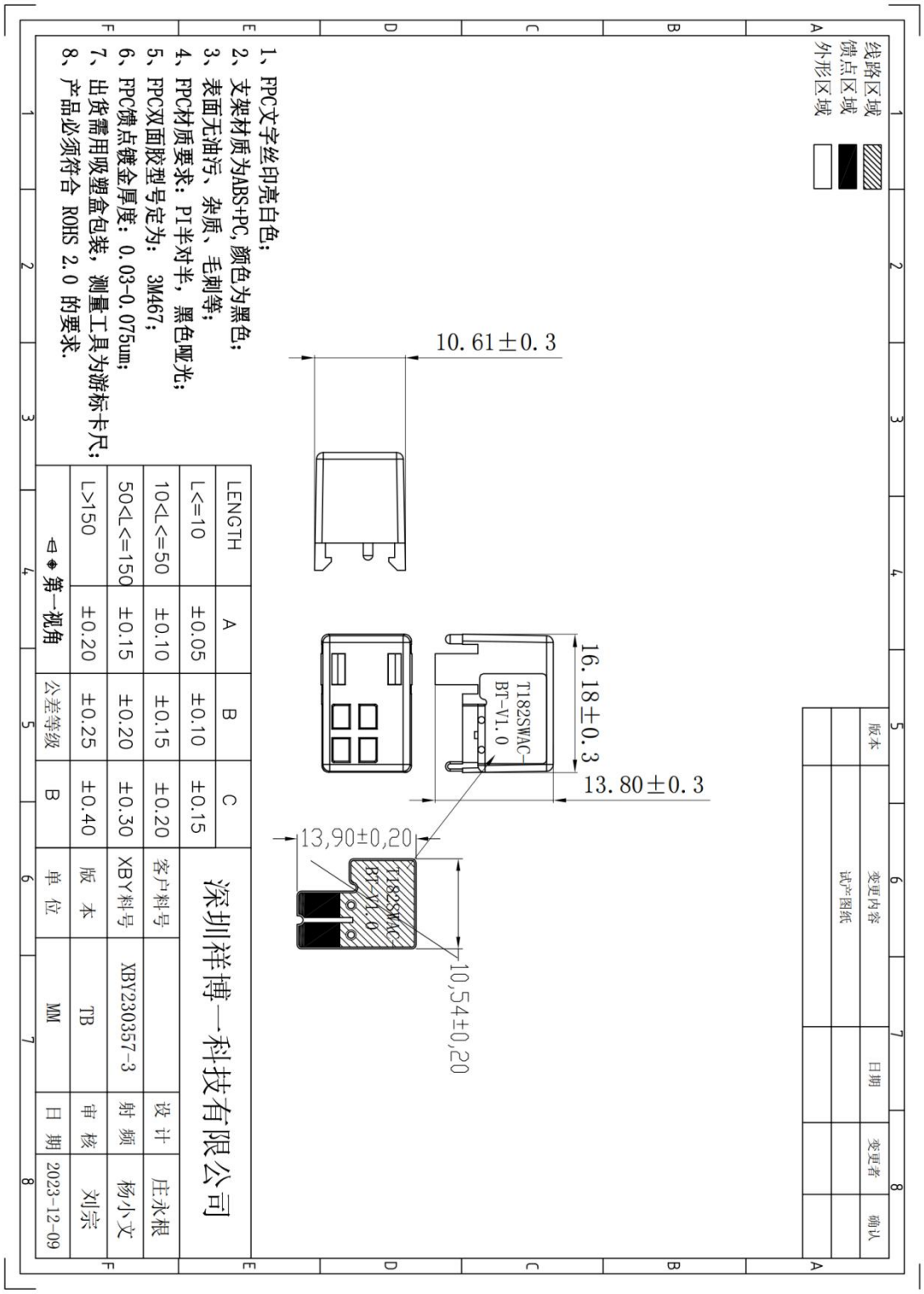
6 EngineeringDrawing



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