Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	**YI LIAN**
Project	
Project NO	XBY230383

Date：2023/10/20

Shenzhen Xiangboyi Technology Co. Ltd
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Production Base: 5 / F, building B, Huazhi chuanggu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

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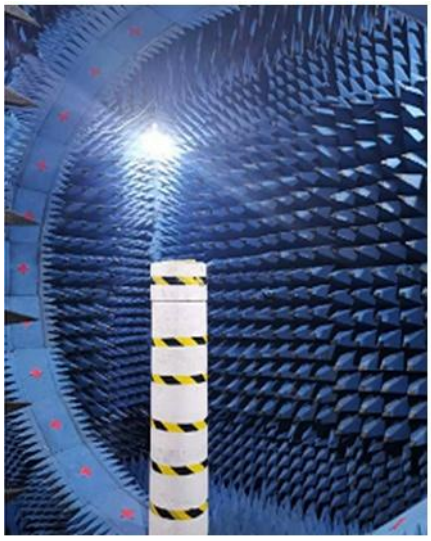
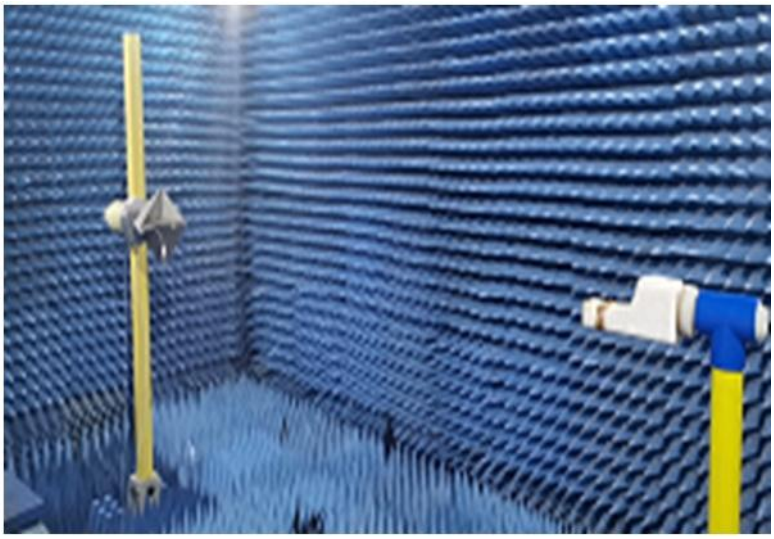
1 Test System and Equipment

	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





2 Product Description

Technical requirements	Technical index	Remarks
Band	WIFI	
Range Of Frequency	2400-2500Mhz 5180-5850Mhz	
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

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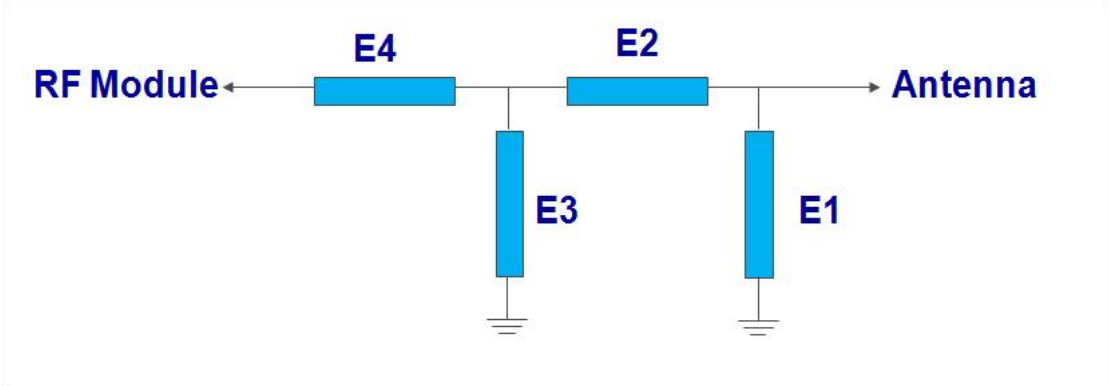
4 Matching Circuits



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

Original match unchanged.

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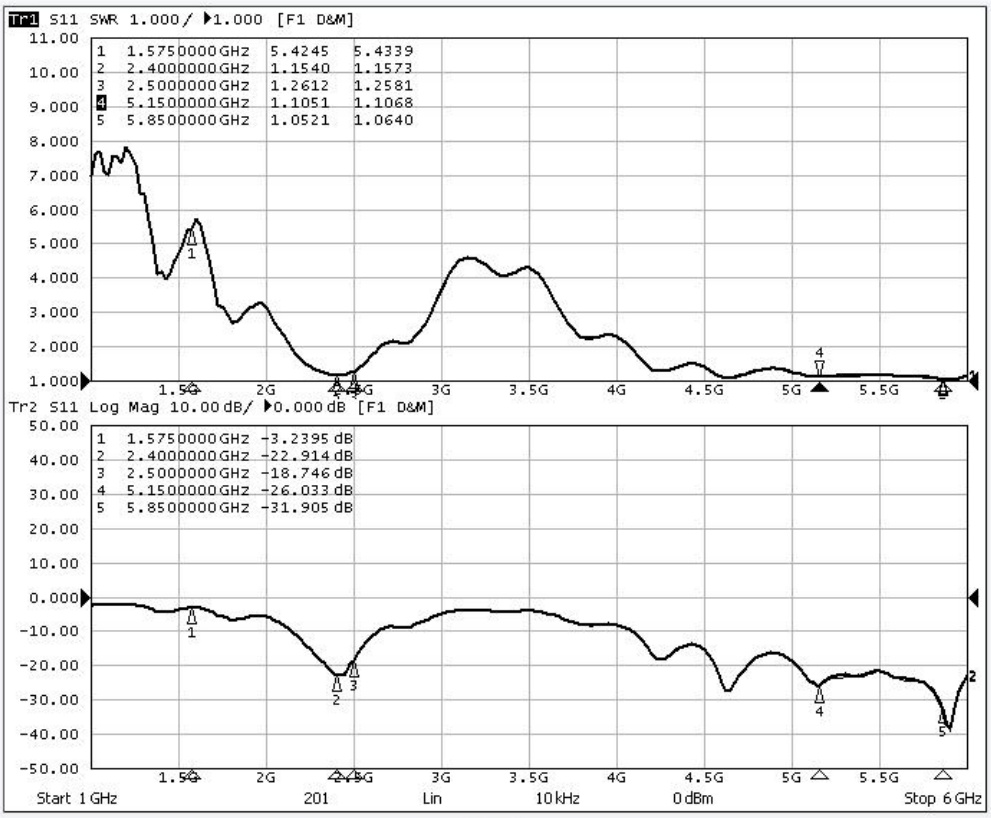
5 Test Data



Freq (MHz)	Effi (%)	Gain (dBi)
2400	37.91	0.66
2450	38.84	1.58
2500	40.71	1.41
5000	46.79	2.96
5100	50.95	2.77
5200	44.52	2.33
5300	41.99	1.9
5400	47.97	2.21
5500	48.27	2.21
5600	50.14	2.62
5700	53.79	3.23
5800	51.43	3.97
5900	45.16	2.85
6000	38.26	1.35

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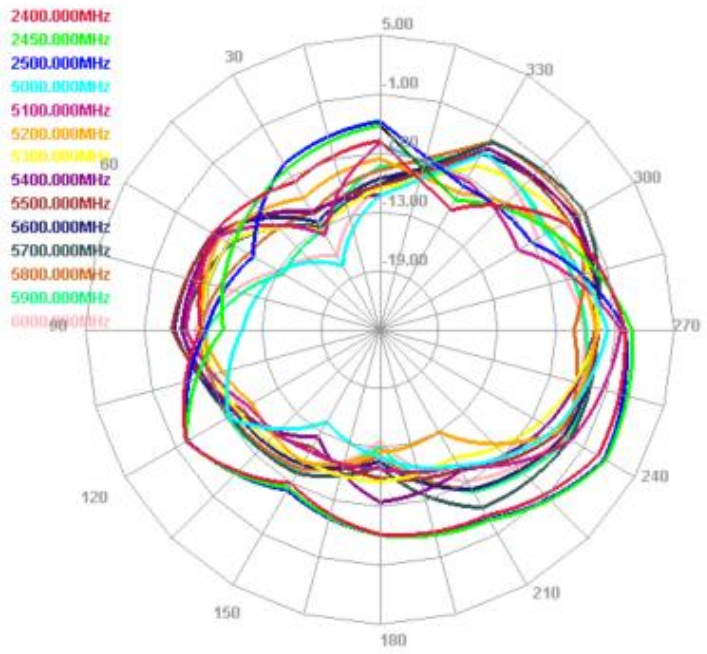
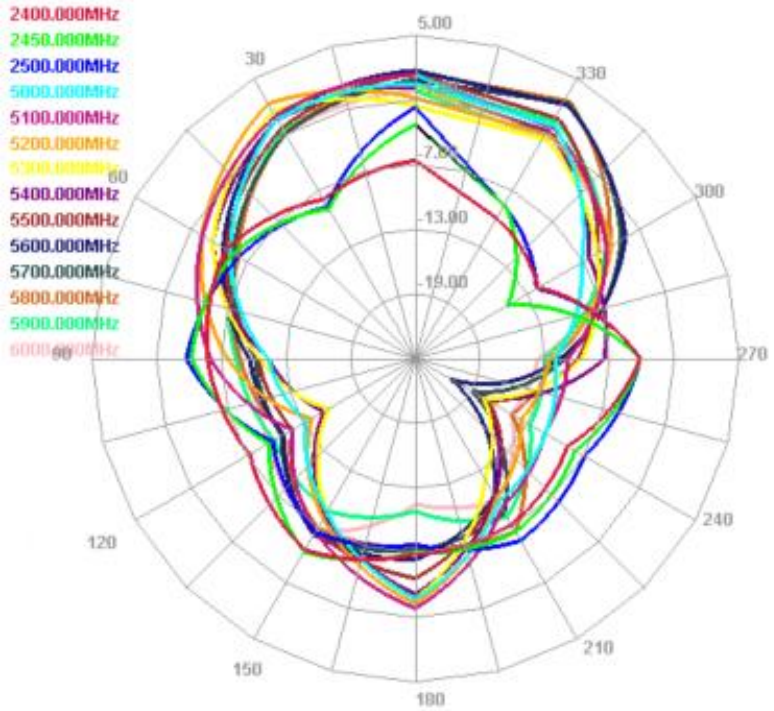
Radiationpattern

Horizontal



E1 Face



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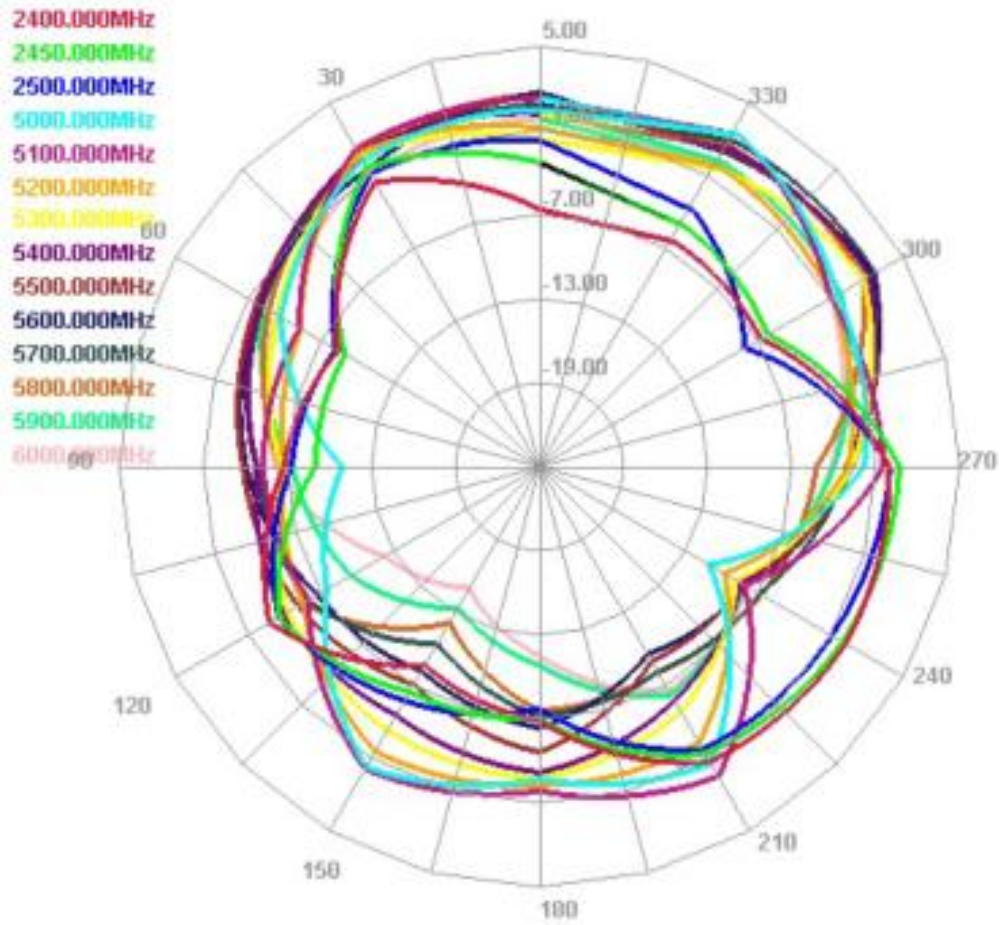
E2 Face



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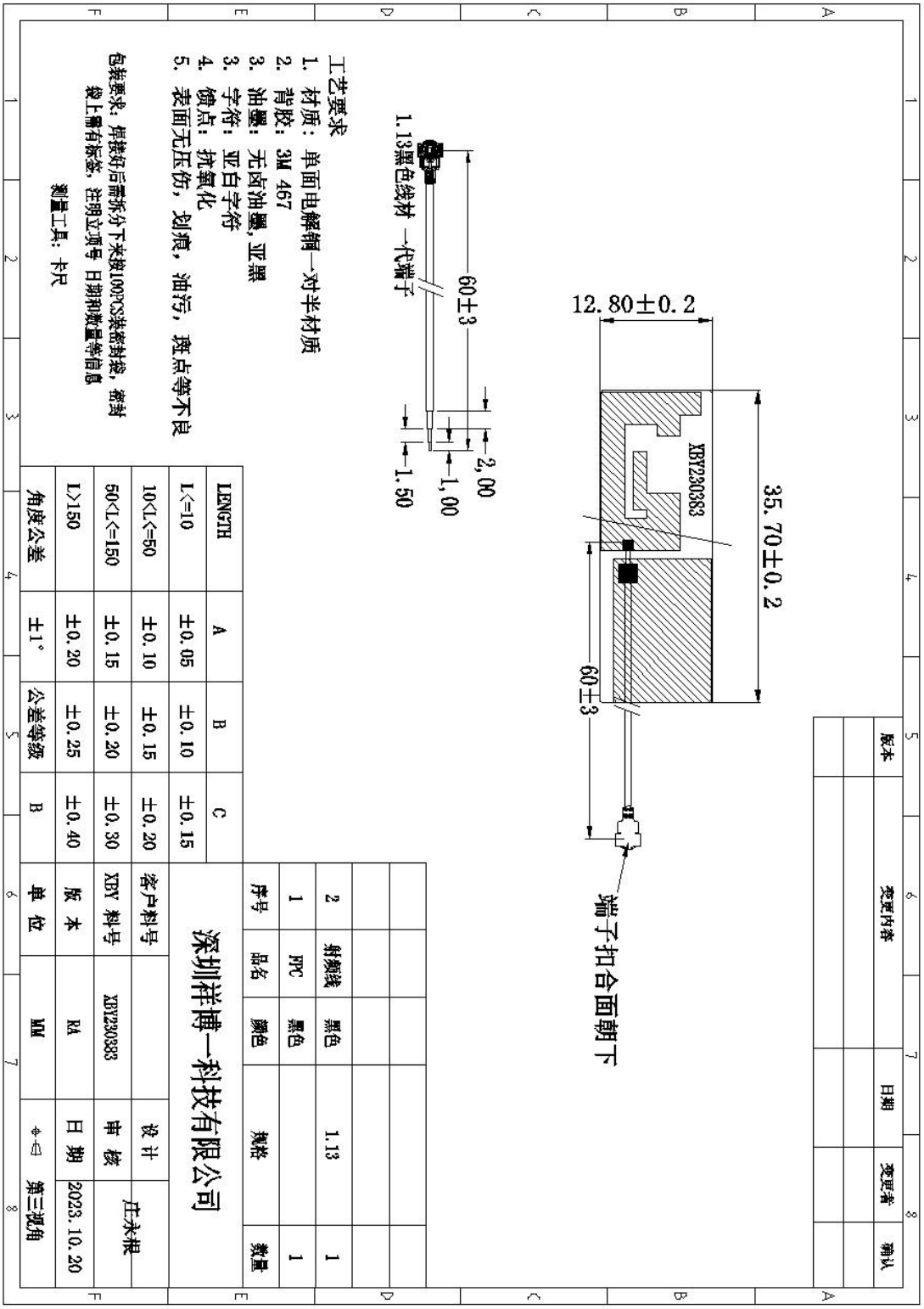
6 EngineeringDrawing



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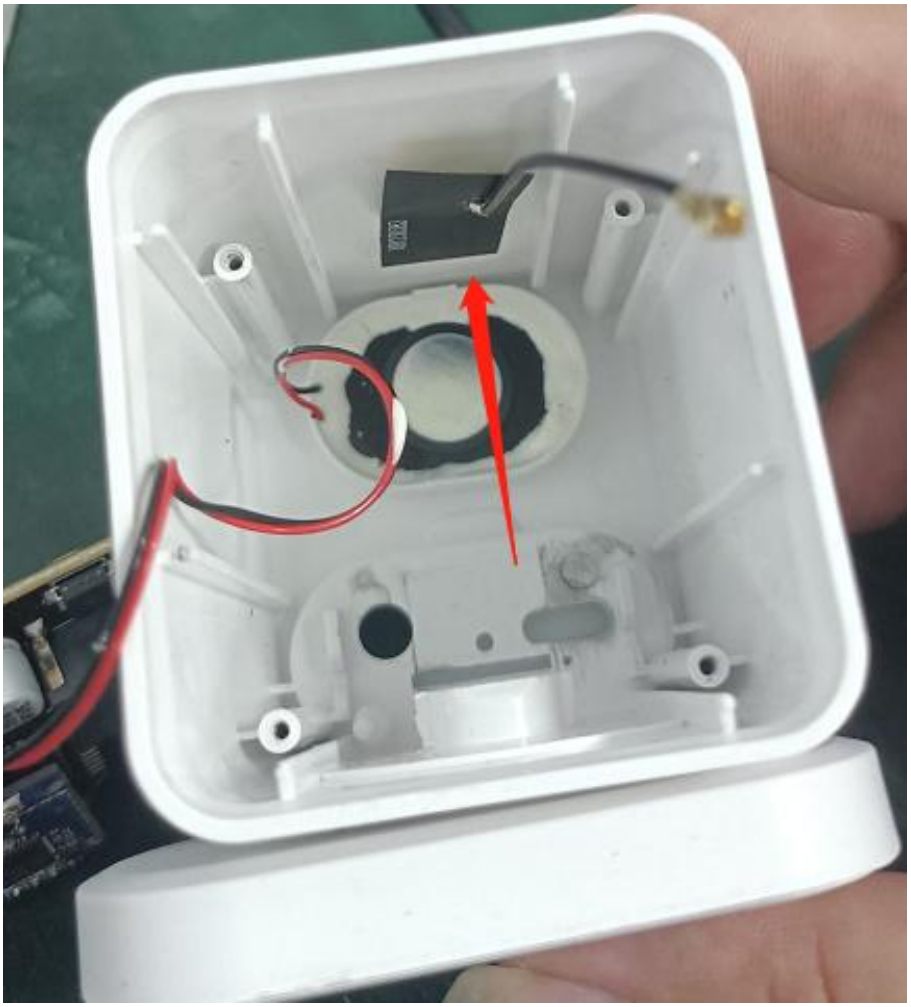
7. Physical Assembly Picture



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