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Dongguan Ante Communications Co., Ltd.

Rtant Communications Co., Ltd

Antenna Commissioning & Testing Report

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Customer: Sanjiang

Project: E1 PRO S1

Antenna Engineer: Jiang Wenxiang

Date: 2026-09-02

Version: V1.0

Project Lead: Jiang Lei – 15899911229



一. Project Debugging Overview

二. Laboratory testing environment and equipment

三. **Antenna matching circuit**

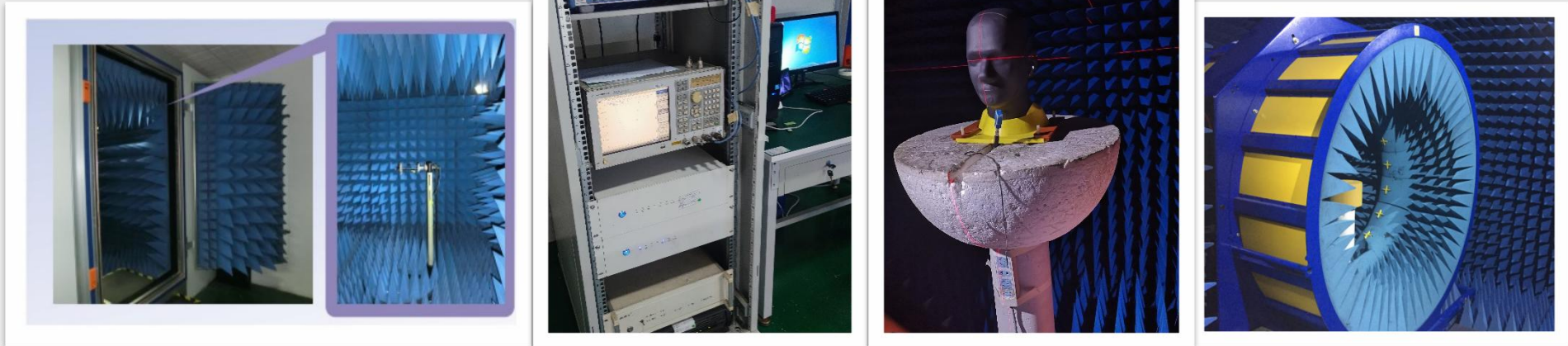
四. **Darkroom Coordinate Marking**

五. Antenna placement position

六. Passive data

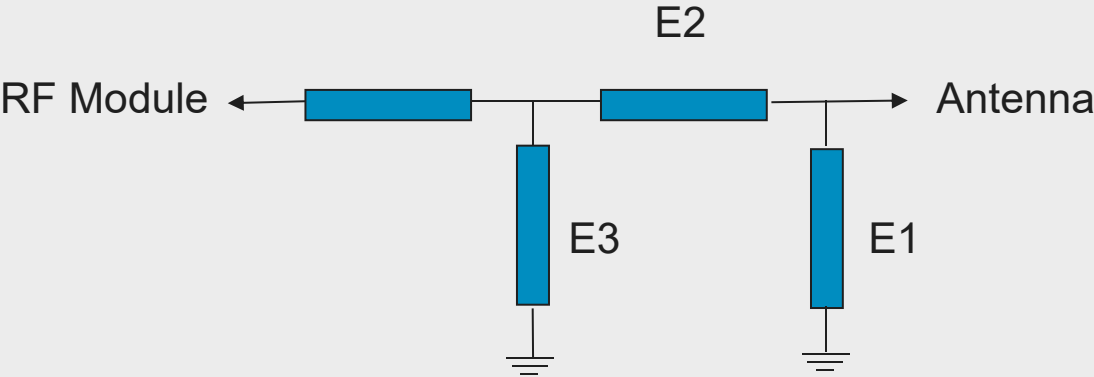


Overall device type				
Antenna type and frequency band information	Antenna system	Frequency band information	Antenna type	Match Changes
	WIFI	2400-2500MHz/5150-5850MHz	FPC	Deny
Antenna Description	φ0.81, Black; L = 45 mm; IPEX-3			
Antenna material				



Test item	Testing facility
S11、 S12 、 VSWR 、 LOSS	Network Analyzer: E5071B, E8753D
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16 darkroom; one of Taiwan's top 10 7*4*3 darkrooms ; E5071B; Second-generation human head
TRP、 TIS	Satimo SG16 darkroom, Top 10 Darkrooms in Taiwan , CMW500, Second-Generation Human Head

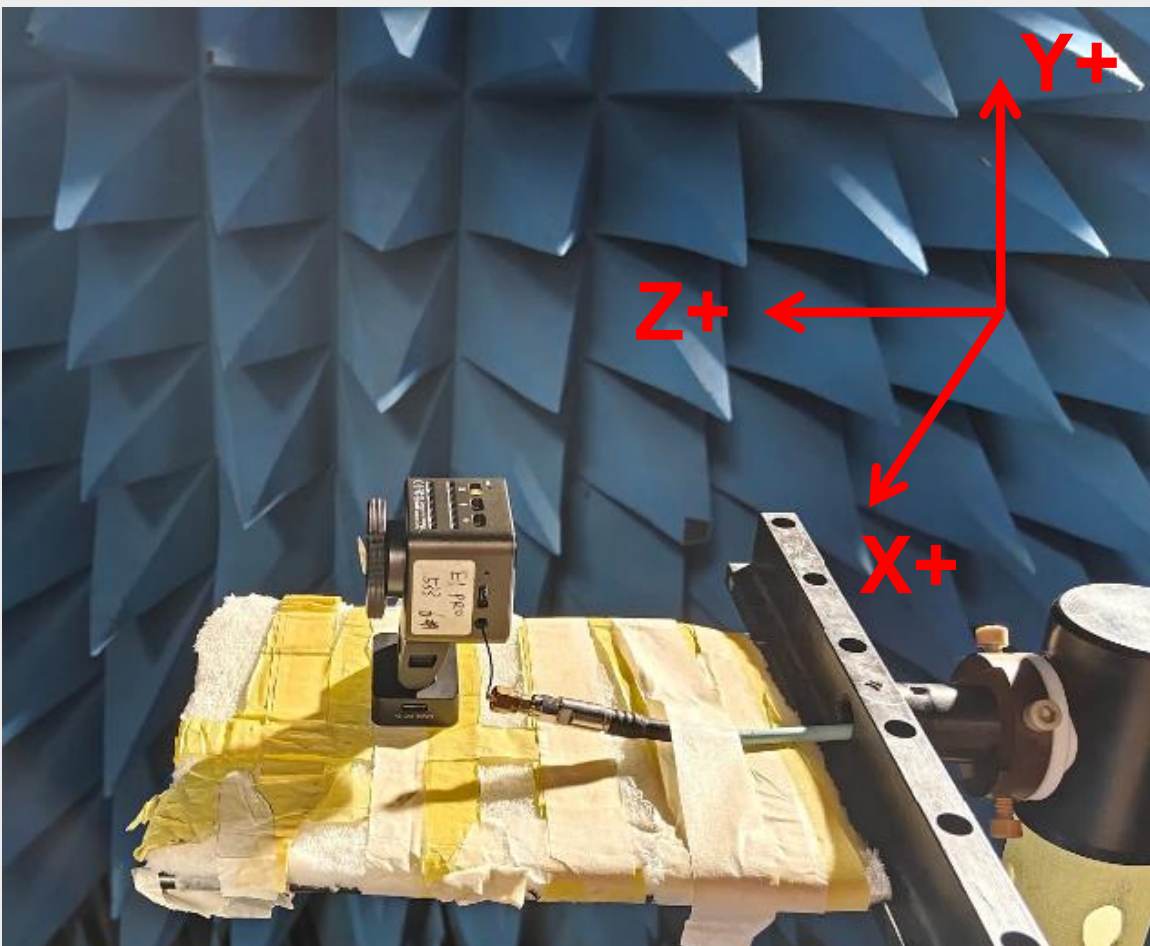
Note: The equipment used for debugging and testing in this project is marked in blue.



	Element	Value
	E1	Not have
	E2	€0
	E3	Not have



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IV. Dark Room Coordinate Marker



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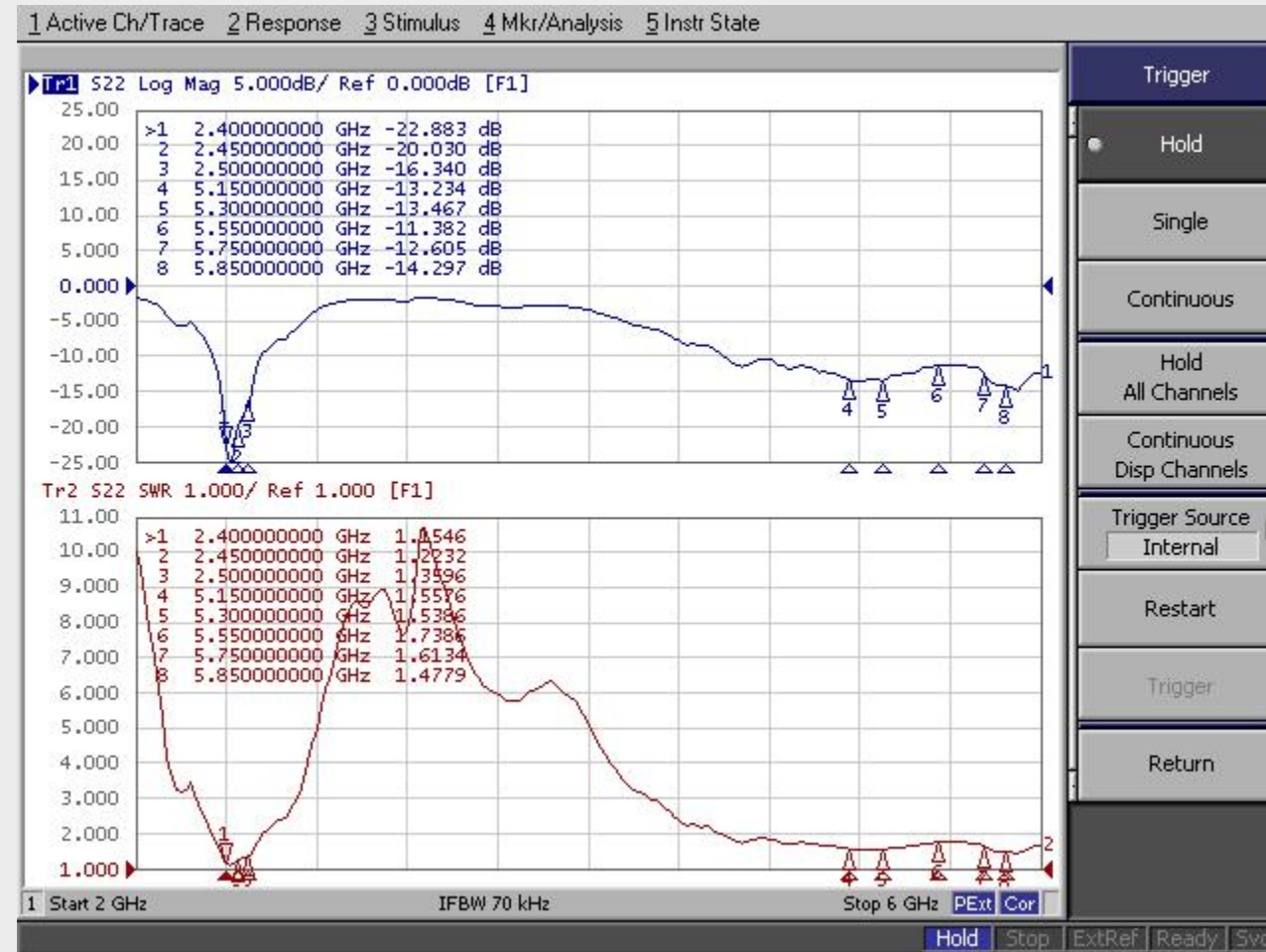
5. Antenna Mounting Position



R-LOSS.VSWR



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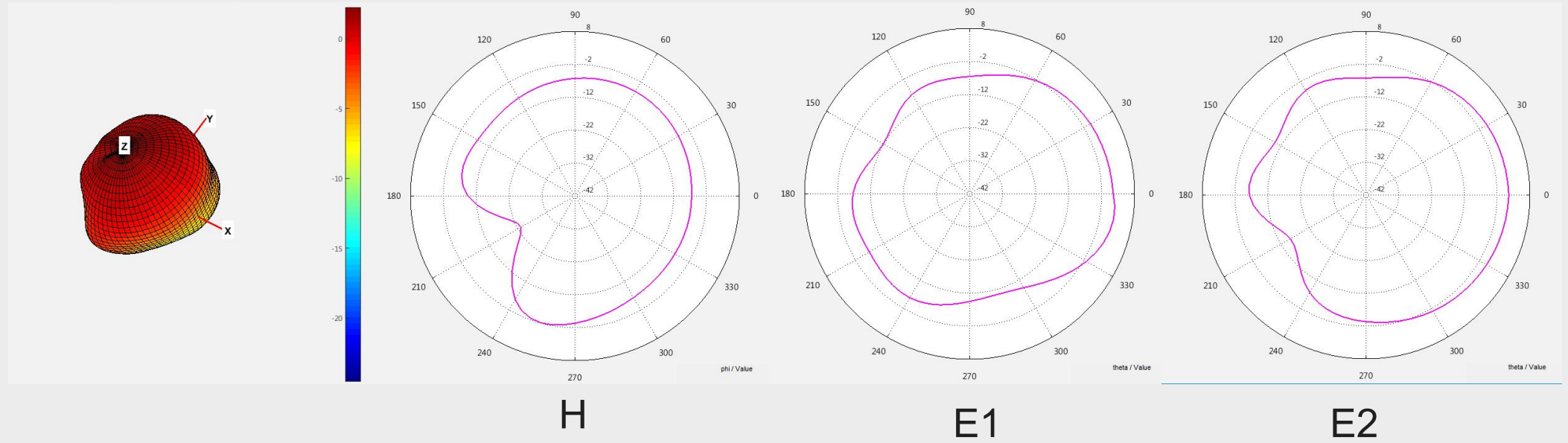


Effi / Gain

Frequency	2.40GHz	2.45GHz	2.50GHz	5.15GHz	5.5GHz	5.85GHz
Efficiency (%)	37.57	38.56	37.93	38.45	40.32	39.04
Gain (dBi)	1.62	1.73	1.68	1.72	1.87	1.76

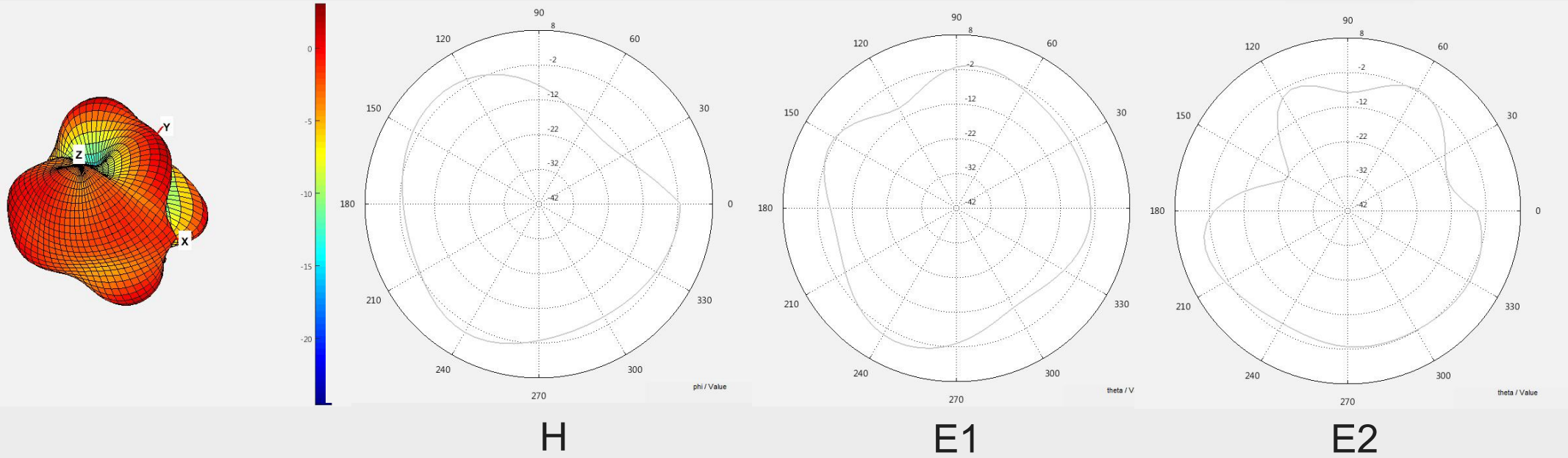


Directional pattern – 2450 MHz





Directional pattern – 5550 MHz





TEST DATA FOR RADIATED TESTING							
BAND	MODE	TX RATE	CHANNEL	TRP	RX RATE	CHANEL	TIS
2.4G	11b	11M	1	13.35	11M	1	-80.56
		11M	6	13.63	11M	6	-80.32
		11M	11	13.14	11M	11	-81.03
5G	11a	6M	36	11.26	54M	36	-75.79
		6M	149	11.03	54M	149	-74.47
		6M	165	10.95	54M	165	-74.62

Contact Way

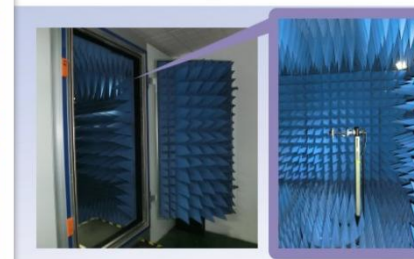
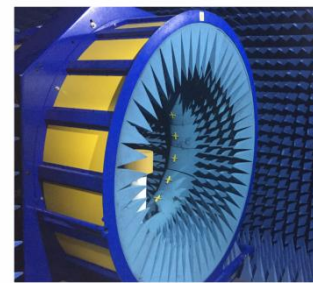


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concentrate
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wireless

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Thank you for your trust in Rtant