

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	DR-HDH003S	
	PART NAME	WIFI antenna assembly	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00002012	
	DATE	2025-11-10	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign:

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Le.Qin	Zishen.Li	



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ANTENNA SPECIFICATION

CUS P/N:DR-HDH003S_WIFI antenna assembly

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Revision history

Edition	Date	state
A0	2025-11-10	First edition

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ANTENNA SPECIFICATION

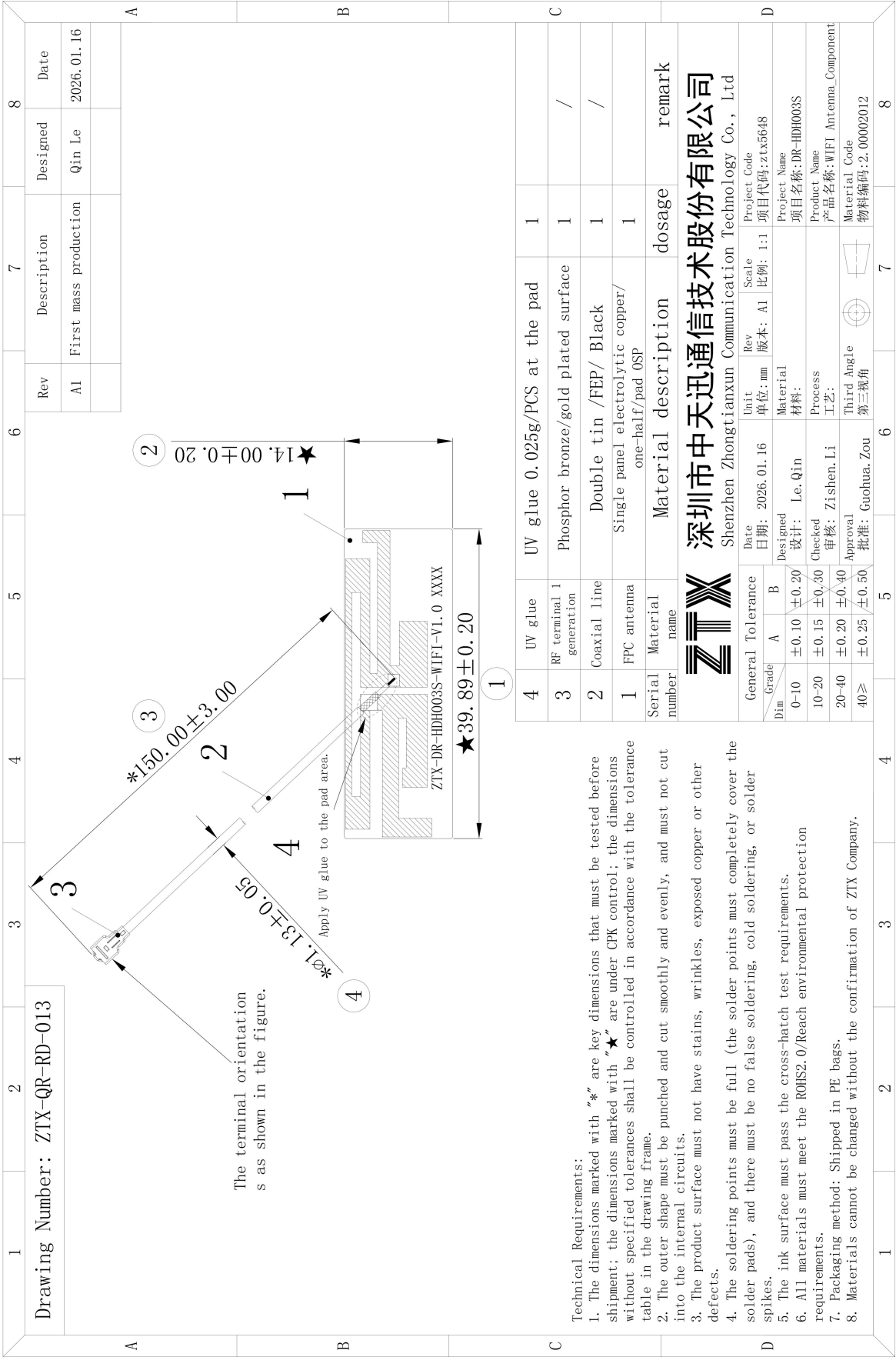
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1. Mechanical Specification

1-1 Mechanical Configuration(WIFI antenna assembly)



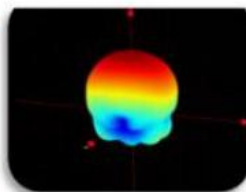
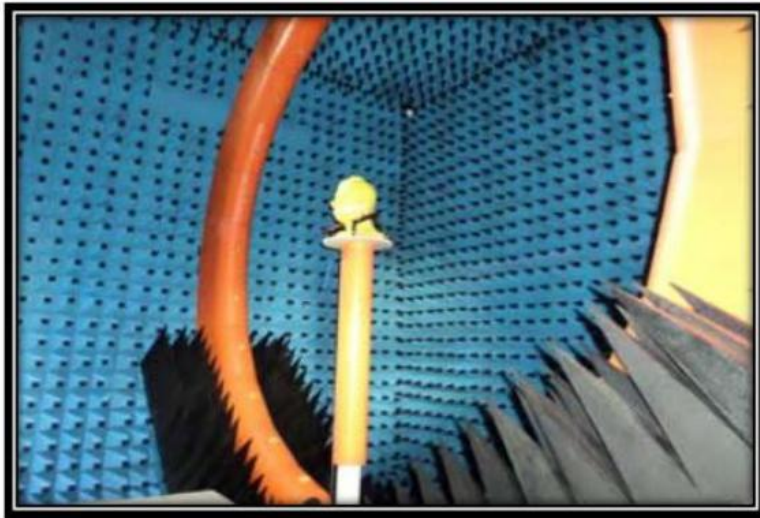
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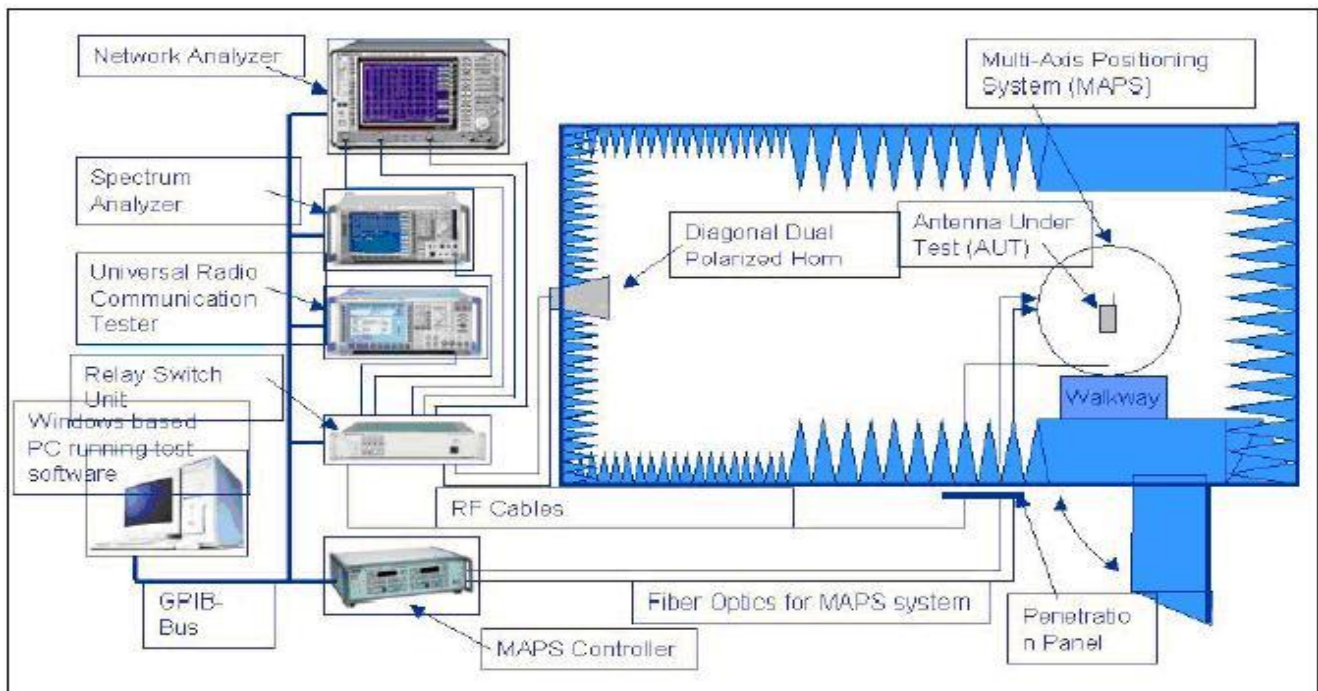
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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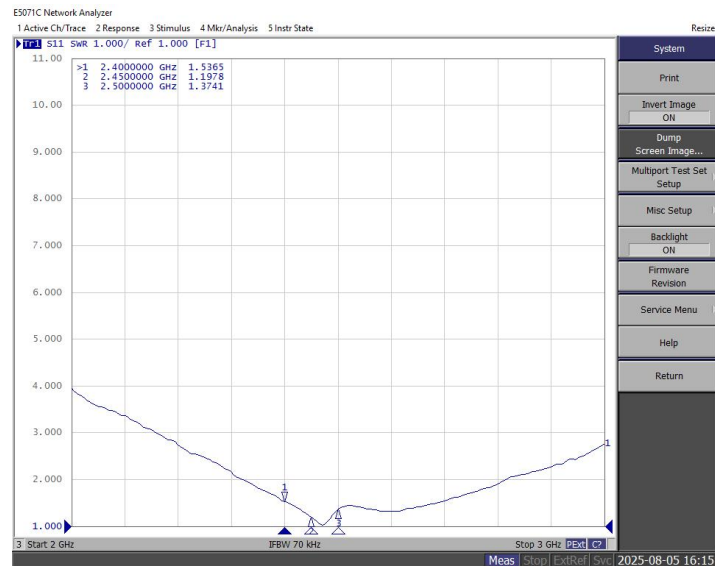
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3.Test Results Summary

3-1 Active Test

Mode	Channels	TRP	TIS
WiFi B (11M/11M)	1	15.76	-84.59
	6	16.06	-84.3
	11	16.86	-82.38
WiFi G (54M/54M)	1	13.62	-69.58
	6	13.69	-68.69
	11	14.74	-66.74
WiFi N (65M/65M)	1	12.99	-64.24
	6	12.62	-62.42
	11	13.8	-62.25

3-2 VSWR



3-3 Passive Test

Frequency(MHz)	Efficiency	Efficiency . dB	Gain . dBi
2400	68%	-1.68	3.58
2410	69%	-1.61	3.46
2420	71%	-1.48	3.33
2430	71%	-1.47	3.79
2440	72%	-1.43	3.85
2450	74%	-1.32	4.15
2460	72%	-1.41	4.29
2470	73%	-1.34	4.11
2480	73%	-1.34	3.90
2490	71%	-1.48	3.83
2500	71%	-1.49	3.99

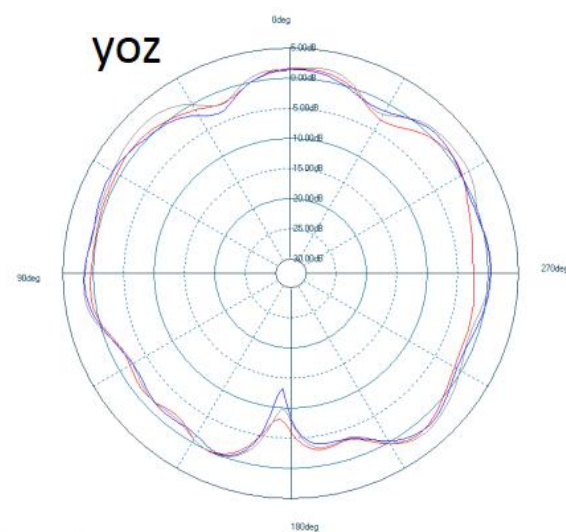
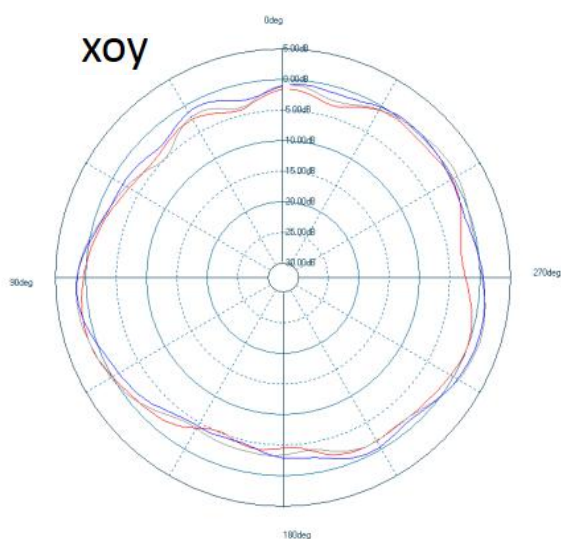
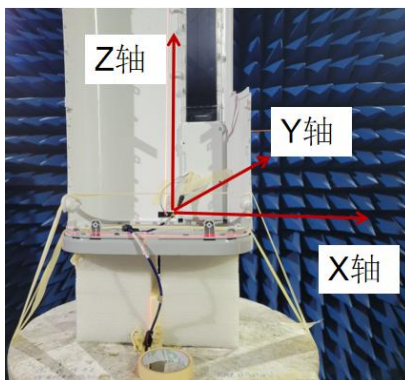
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3-4 2D/3D Radiation Pattern Results



Legend
— 2400.00(MHz)
— 2450.00(MHz)
— 2500.00(MHz)

