

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HHM005S Humidifier	
	PART NAME	WIFI antenna components	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00002549	
	DATE	2026-04-23	

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	Bohou.Jiang	



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ANTENNA SPECIFICATION

CUS P/N:HHM005S Humidifier_WIFI antenna components Application Date:Apr,23,2026

Rev: R:A0

ZTX P/N :HHM005S Humidifier_WIFI antenna components Editor:

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Revision history

Edition	Date	state
A0	2026-04-23	First edition

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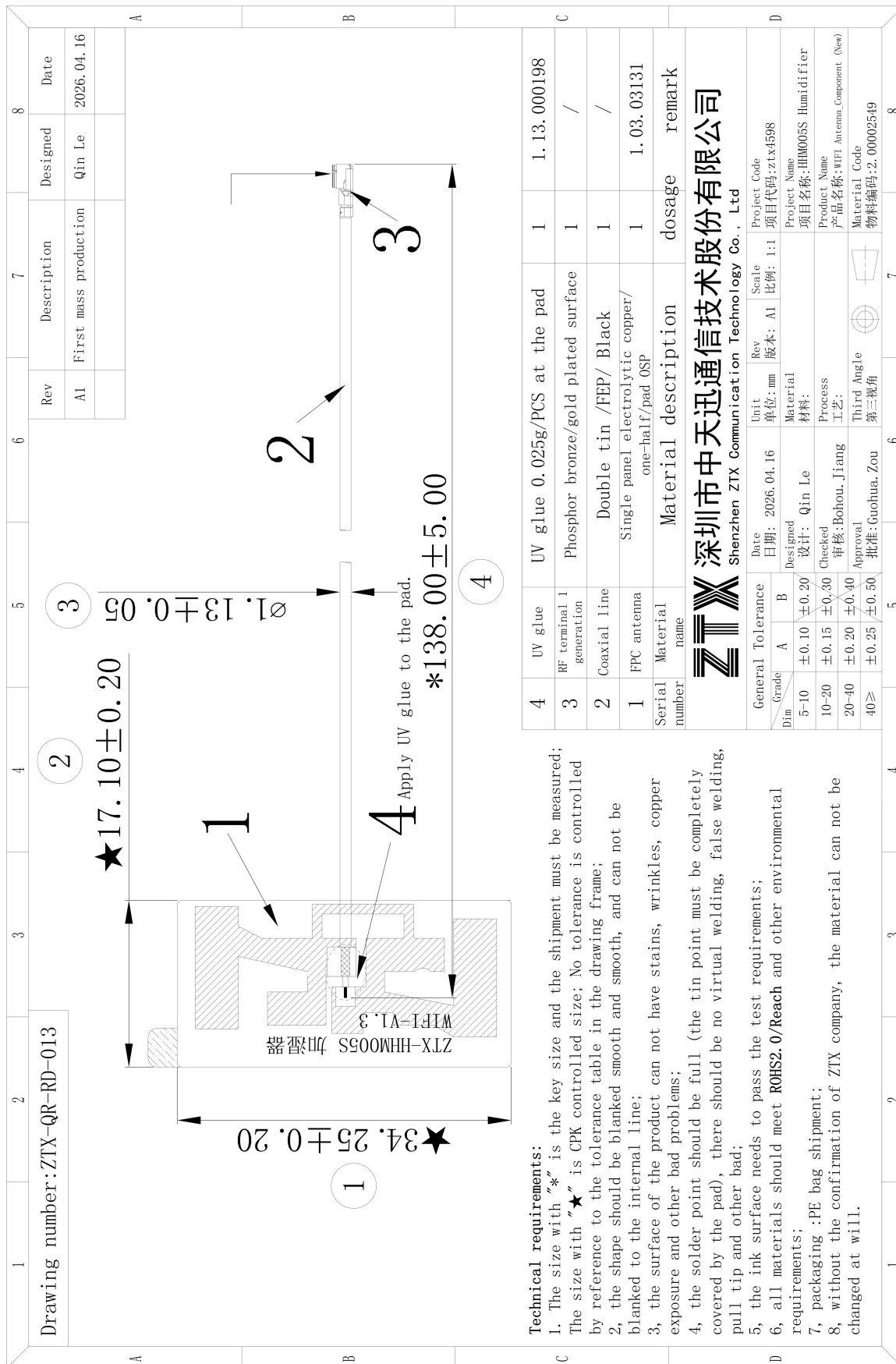
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1. Mechanical Specification

1-1 Mechanical Configuration(WIFI antenna components)



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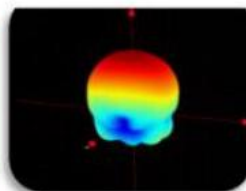
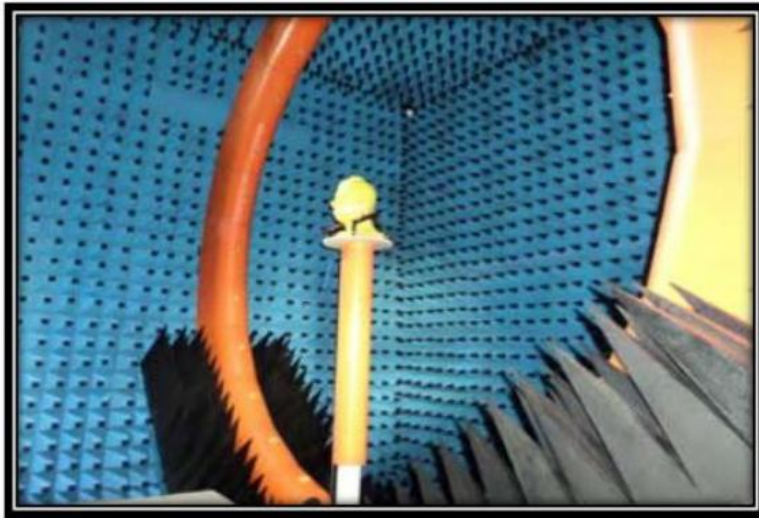
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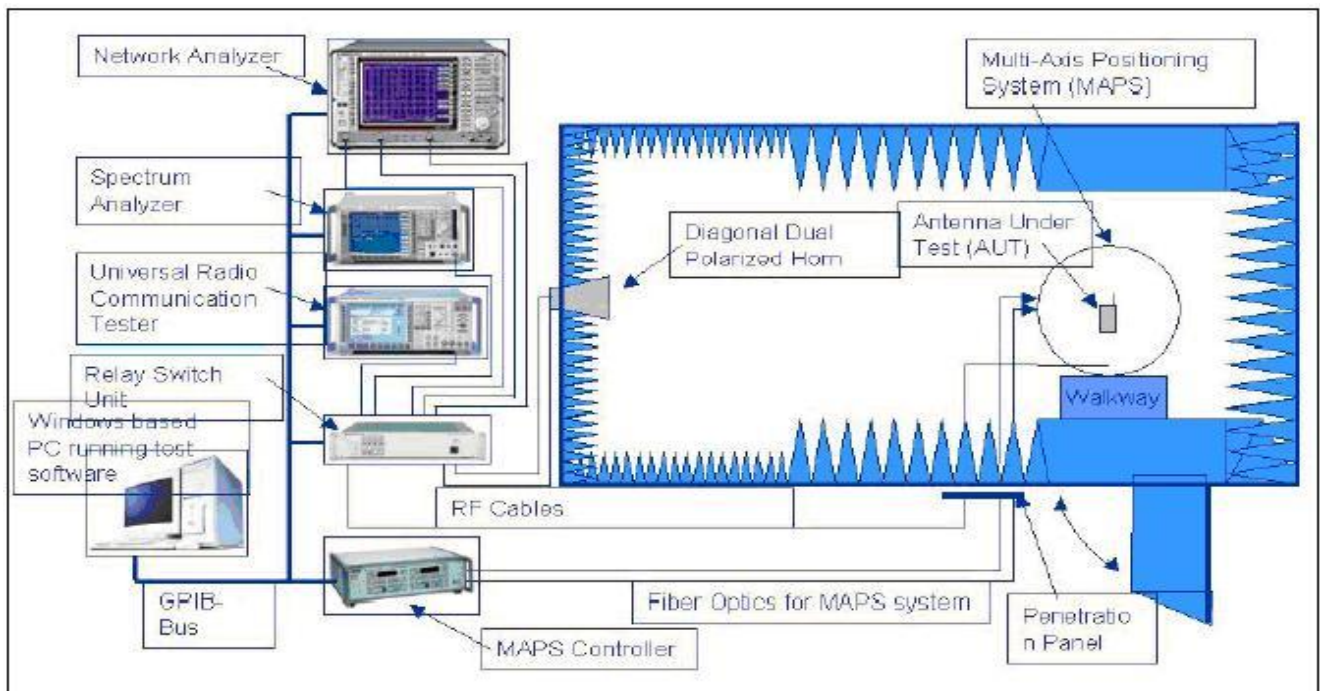
2. Test equipment



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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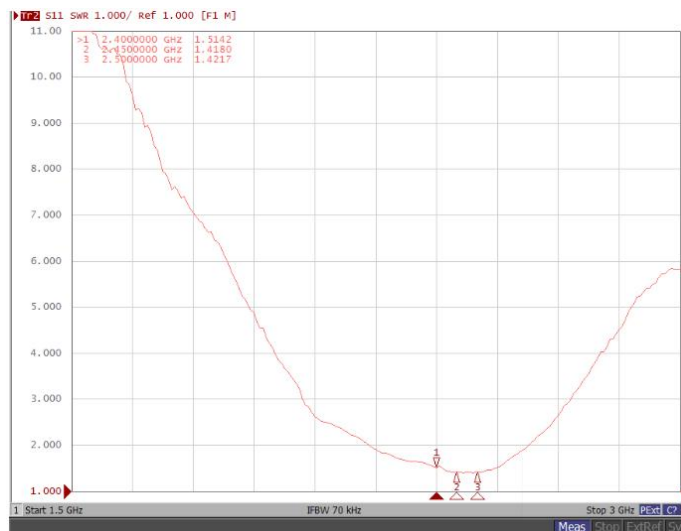
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3.Test Results Summary

3-1 Active Test

50%水量 开启一档加湿功能			
Mode	Channels	TRP	TIS
B (11M/11M)	1	16.59	-86.25
	6	16.67	-86.1
	11	16.37	-86.07
G (54M/54M)	1	15.6	-72.86
	6	15.47	-72.58
	11	15.61	-72.45
N (MCS7/MCS7)	1	15.41	-66.81
	6	15.33	-66.33
	11	15.25	-66.43

3-2 VSWR



3-3 Passive test

Frequency	Efficiency	Gain . dB
2400MHz	69%	3.56
2410MHz	66%	3.37
2420MHz	68%	3.58
2430MHz	67%	3.39
2440MHz	68%	3.36
2450MHz	69%	3.53
2460MHz	68%	3.51
2470MHz	68%	3.54
2480MHz	66%	3.35
2490MHz	68%	3.56
2500MHz	64%	3.32

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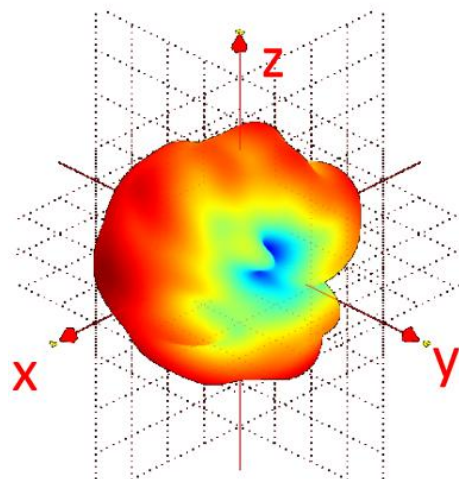
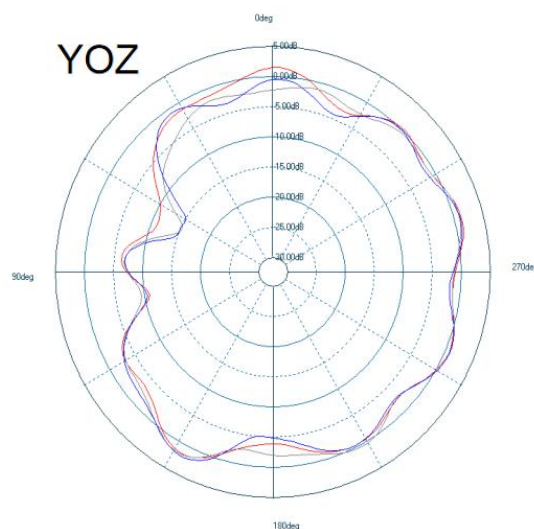
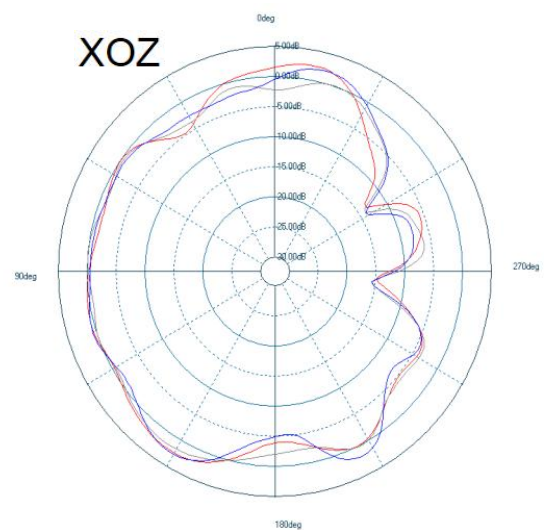
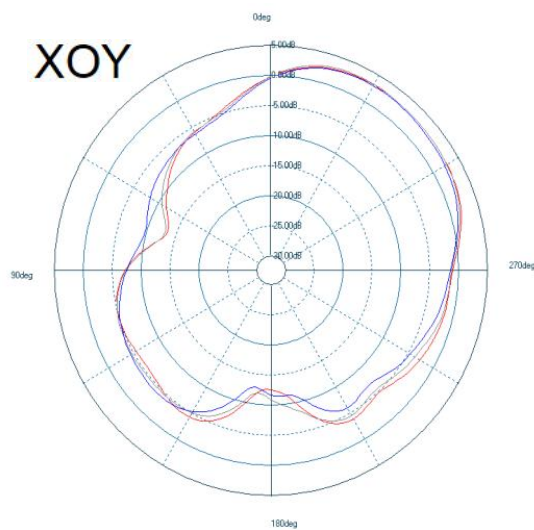
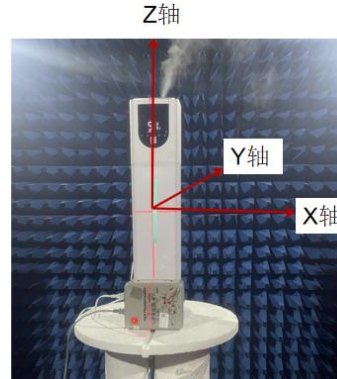
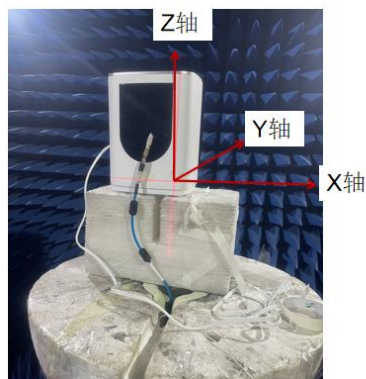
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3-4 2D/3D Radiation Pattern Results



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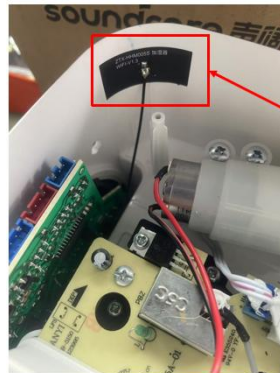
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3-5 Environmental treatment



2400-2500MHz
天线位置