

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HHM013S Humidifier	
	PART NAME	WIFI antenna components	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001458	
	DATE	2024-10-29	

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
		Zhengwei.Chen	Juebin.Liang	



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ANTENNA SPECIFICATION

CUS P/N:HHM013S Humidifier_WIFI antenna components Application Date:Oct,29,2024

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Page 1 of 7

Revision history

Edition	Date	state
A0	2024-10-29	First edition

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Page 2 of 7

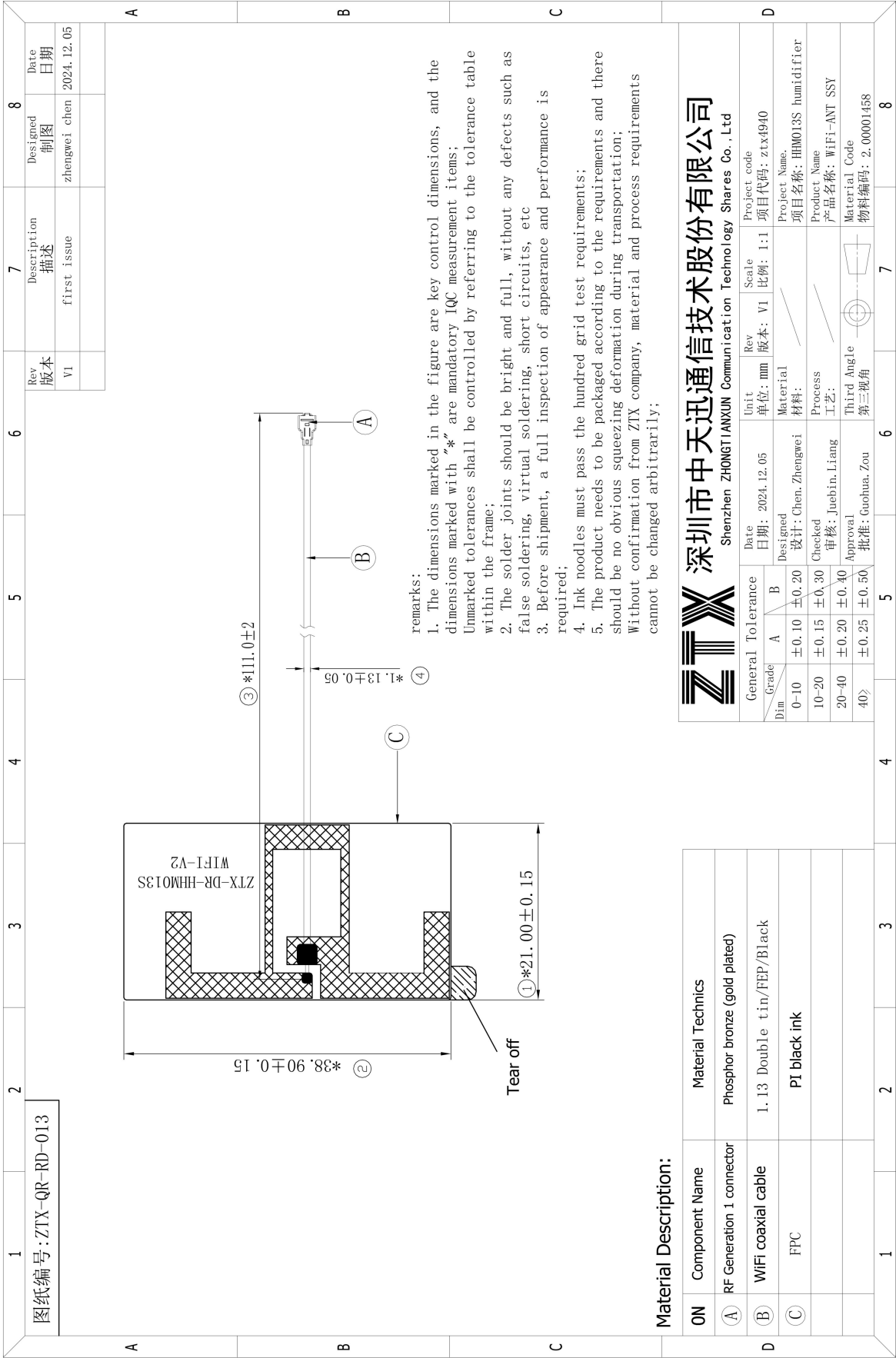
Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification(WIFI antenna components)	3
2		Test equipment	4
3		Test Results Summary	5
	3-1	Active Test	5
	3-2	VSWR	5
	3-3	No-source test data	5
	3-4	2D/3D Radiation Pattern Results	6~7

ANTENNA SPECIFICATION

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna components)



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ANTENNA SPECIFICATION

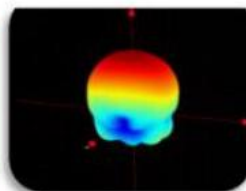
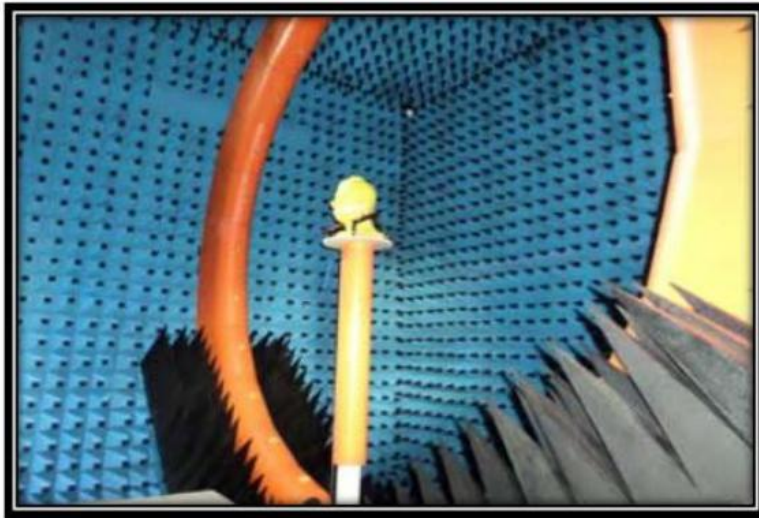
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Page 4 of 7

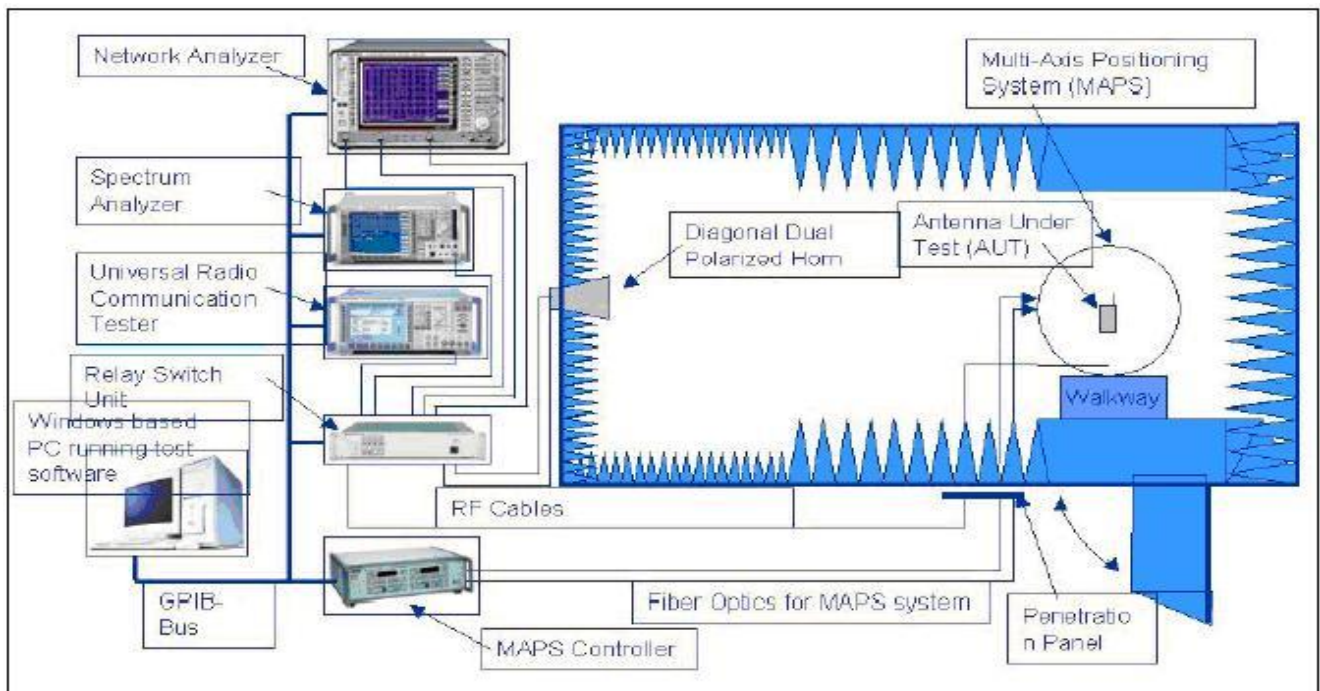
2. Test equipment



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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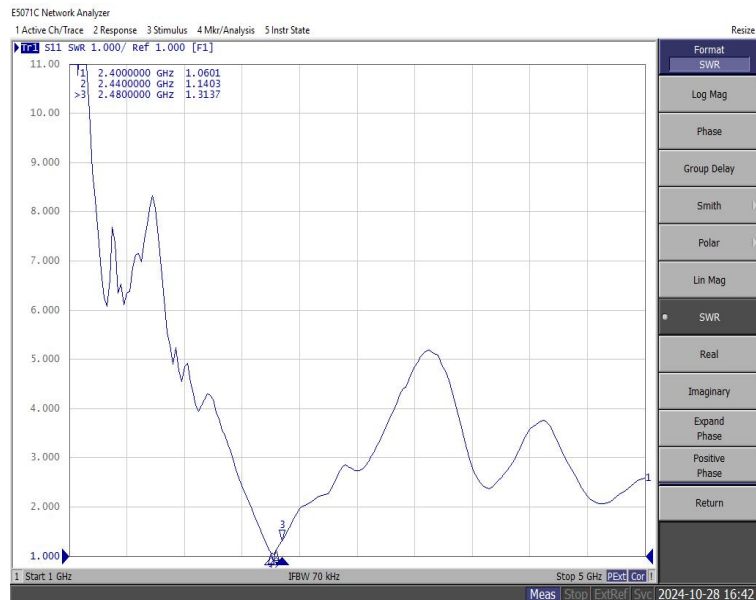
Page 5 of 7

3.Test Results Summary

3-1 Active Test

50% of the water is turned on a gear humidification function				90% of the water is turned on a gear humidification function			
Mode	Channels	TRP	TIS	Mode	Channels	TRP	TIS
B (11M/11M)	1	15.22	-84.23	B (11M/11M)	1	15.01	-82.68
	6	14.98	-84.34		6	15.12	-83.29
	11	15.26	-83.66		11	15.45	-83.16
G (6M/54M)	1	12.91	-70.99	G (6M/54M)	1	12.54	-69.30
	6	12.74	-70.82		6	12.63	-68.69
	11	12.36	-70.43		11	12.20	-68.52
N (MCS0/MCS7)	1	12.34	-67.01	N (MCS0/MCS7)	1	11.32	-66.22
	6	11.28	-66.52		6	11.11	-66.63
	11	11.39	-66.36		11	11.02	-65.96

3-2 VSWR



3-3 No-source test data

Frequency	Efficiency	Gain . dB
2400MHz	64%	-1.93
2410MHz	63%	-2.02
2420MHz	62%	-2.06
2430MHz	64%	-1.94
2440MHz	63%	-2.00
2450MHz	62%	-2.09
2460MHz	61%	-2.17
2470MHz	61%	-2.14
2480MHz	61%	-2.13
2490MHz	63%	-2.02
2500MHz	64%	-1.94

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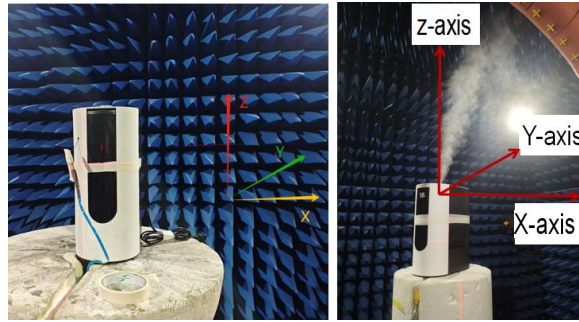
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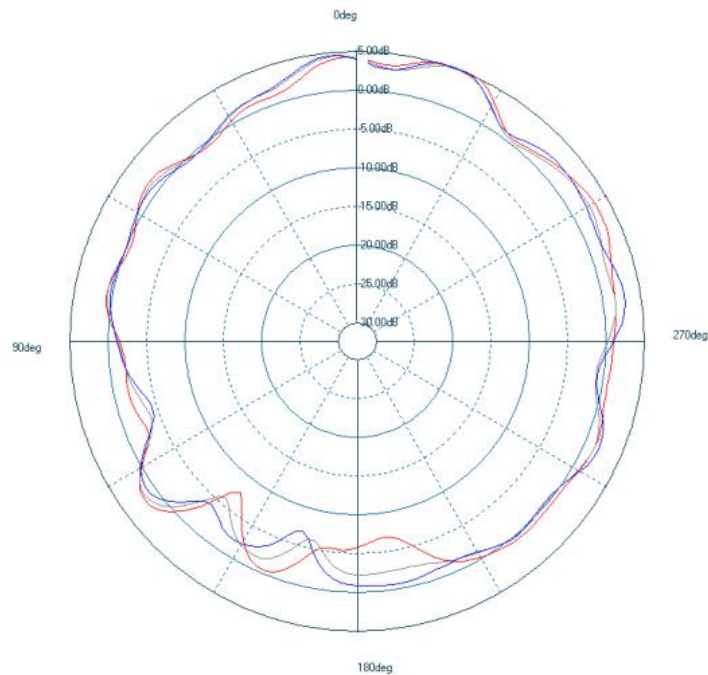
ZTX P/N :HHM013S Humidifier_WIFI antenna components Editor:

Page 6 of 7

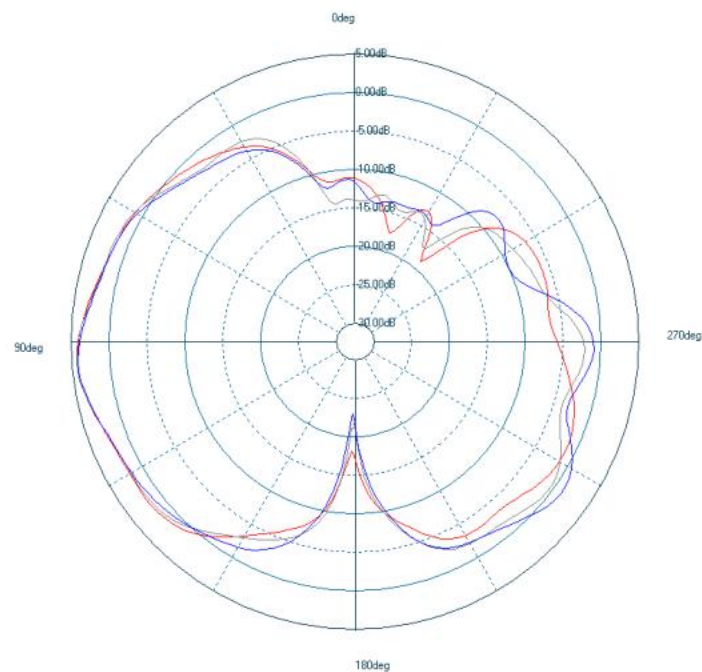
3-4 2D/3D Radiation Pattern Results



XOY



XOZ



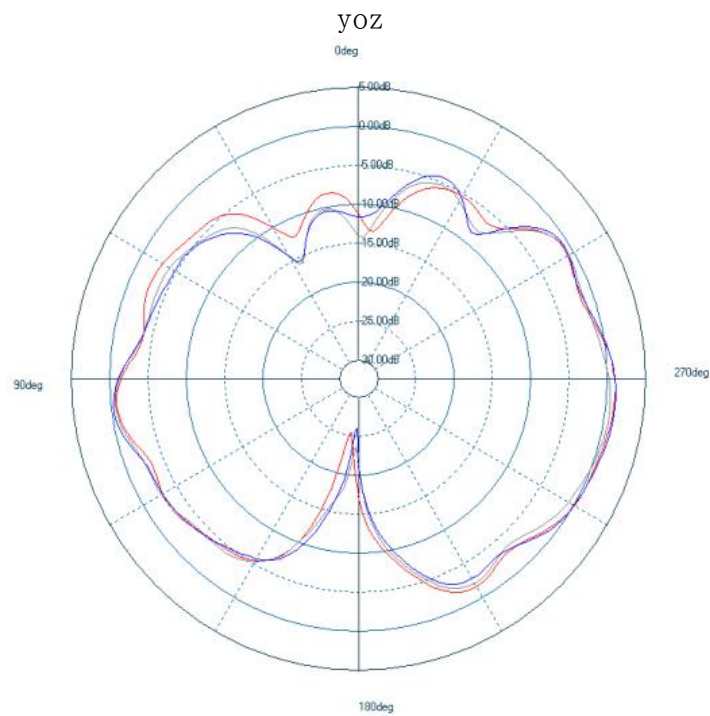
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ZTX P/N :HHM013S Humidifier_WIFI antenna components Editor:

Page 7 of 7



2450MHz

