

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung	
	CS P/N		
	TEST MODEL	HHM009S	
	PART NAME	WIFI antenna module	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001494	
	DATE	2024-11-08	

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
		覃乐	黄琼	



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ANTENNA SPECIFICATION

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Revision history

versions	DATE	STATE
A0	2024-11-08	first edition

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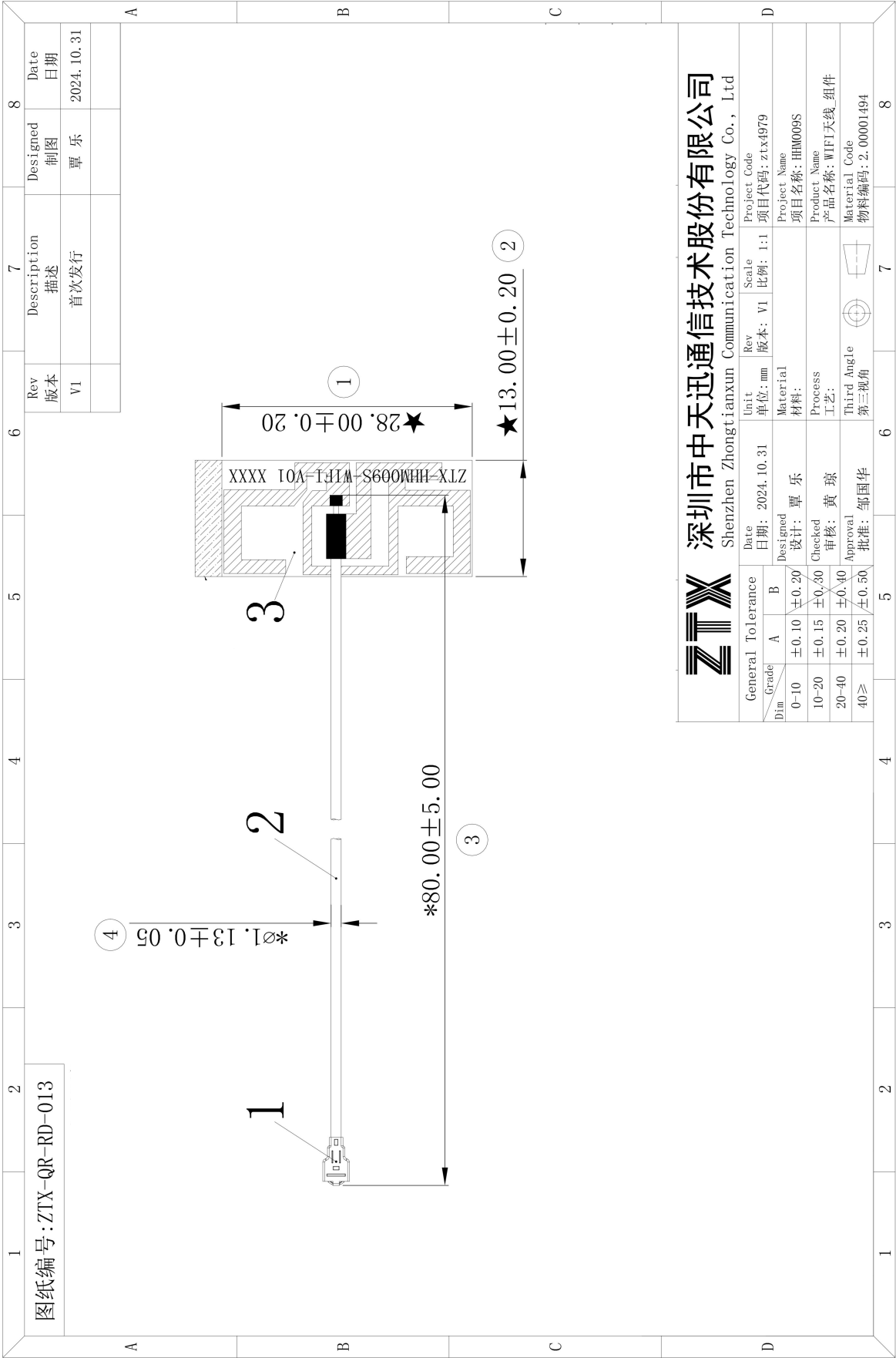
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna module)



深圳市中天迅通信科技股份有限公司
Shenzhen Zhongtianxun Communication Technology Co., Ltd

General Tolerance		Date	Unit	Rev	Scale	Project Code
日期: 2024.10.31		单位: mm	版本: V1	比例: 1:1	项目代码: ztx4979	
Designed		Material		Project Name		
设计: 覃乐		材料:		项目名称: HHM009S		
Checked		Process		Product Name		
审核: 黄琼		工艺:		产品名称: WIFI天线_组件		
Approval		Third Angle		Material Code		
批准: 邹国华		第三视角		物料编码: 2.00001494		

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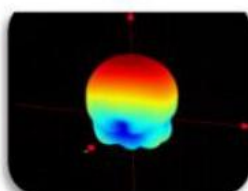
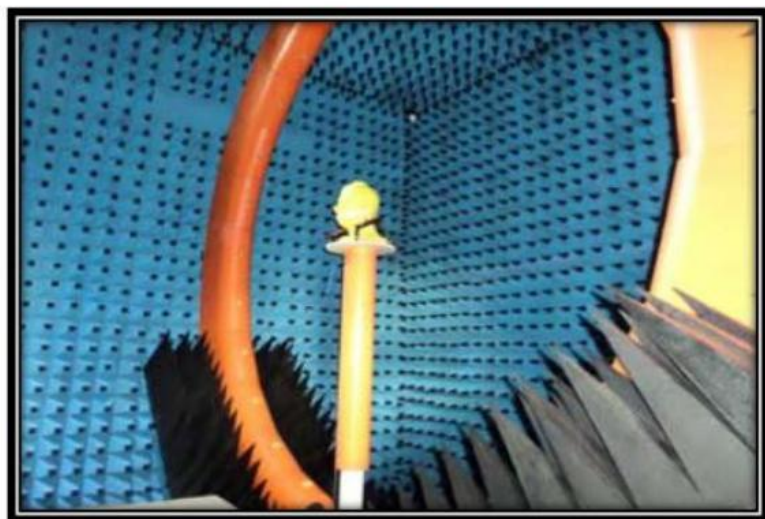
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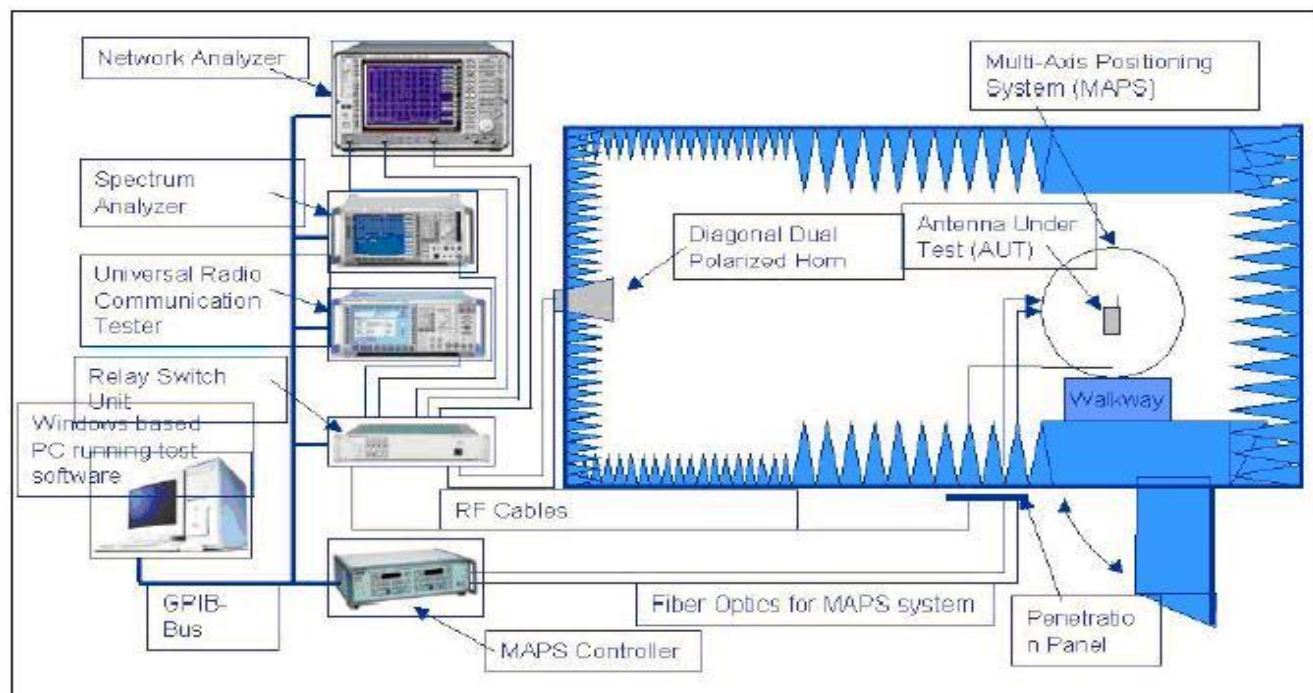
2. Test equipment



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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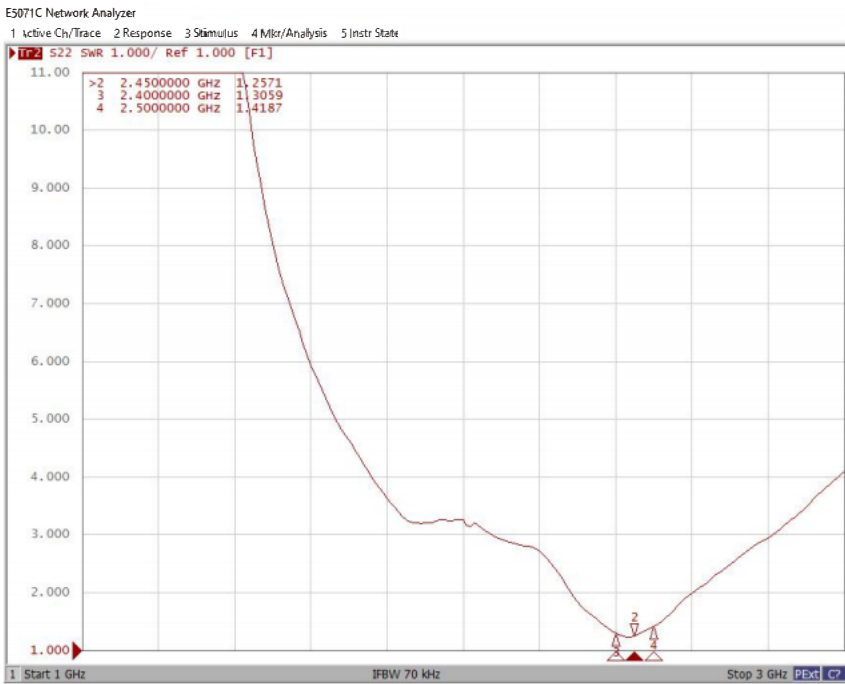
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3.Test Results Summary

3-1 Active Test

50% water			90% water		
WIFI B	TRP	TIS	WIFI B	TRP	TIS
1	14.78	-82.45	1	14.65	-82.11
6	15.21	-81.74	6	15.11	-81.42
11	14.63	-81.05	11	14.82	-81
WIFI G	TRP	TIS	WIFI G	TRP	TIS
1	12.36	-69.87	1	12.18	-69.69
6	12.05	-69.61	6	12.22	-69.47
11	12.47	-70.19	11	12.31	-70.08
WIFI N	TRP	TIS	WIFI N	TRP	TIS
1	12.15	-64.57	1	12.04	-64.25
6	11.78	-64.33	6	11.59	-64.15
11	12.08	-63.92	11	11.89	-63.85

3-2 VSWR



3-3 No-source test data

Frequency	Efficiency	Efficiency	Gain . dB
2.4E+09	65%	-1.90	3.36
2.41E+09	66%	-1.83	3.46
2.42E+09	66%	-1.83	3.53
2.43E+09	67%	-1.77	3.86
2.44E+09	67%	-1.75	4.20
2.45E+09	68%	-1.68	4.20
2.46E+09	67%	-1.75	4.11
2.47E+09	67%	-1.74	4.12
2.48E+09	66%	-1.80	4.10
2.49E+09	65%	-1.84	3.84
2.5E+09	65%	-1.85	3.85

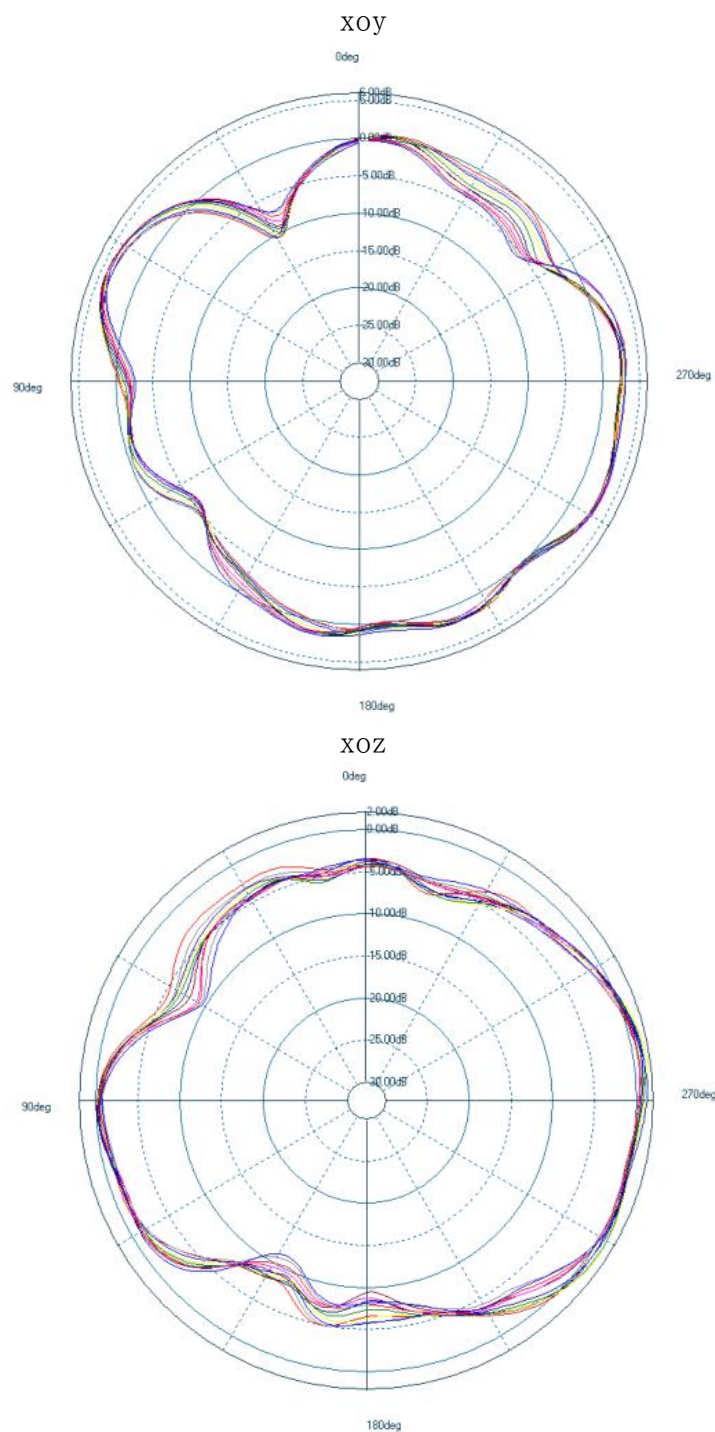
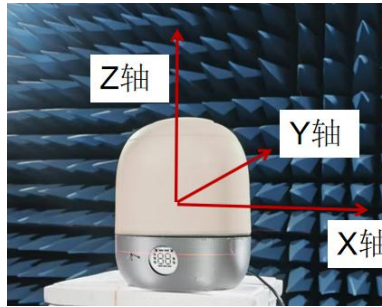
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3-4 2D/3D Radiation Pattern Results

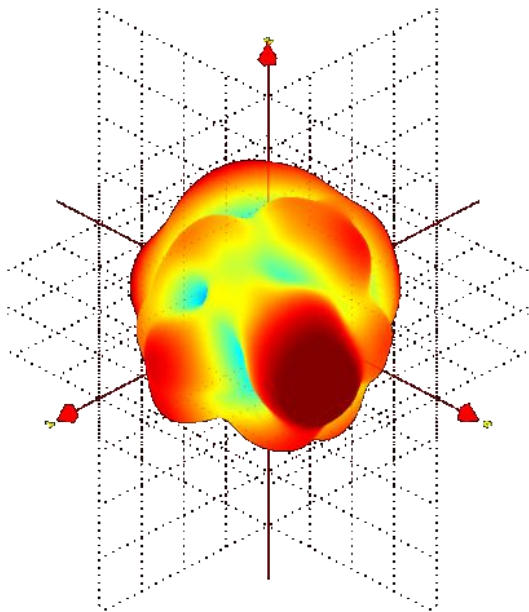
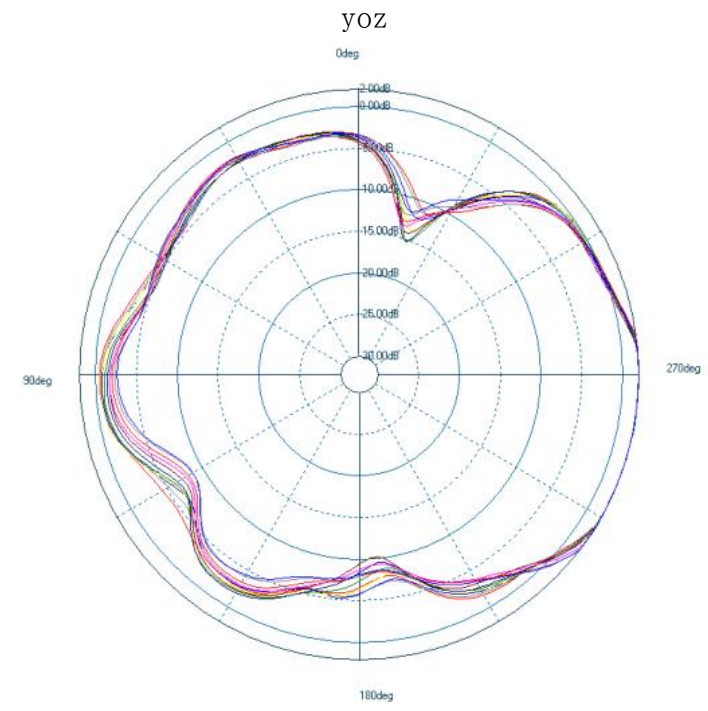


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3-5 Environmental treatment

