

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	HESUNG	
	CS P/N	DR-KCM002S & DR-KCM003S	
	PART NAME	WIFI antenna module	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	K.00000024	
	DATE	2024-12-07	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign: _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		赖宁平	古谨平	



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ANTENNA SPECIFICATION

Revision history

Edition	Date	State
A0	2024-12-07	first edition

ANTENNA SPECIFICATION

CUS P/N :

ApplicationDate:Dec,07,2024

Rev: R:A0

ZTX P/N :

Editor:

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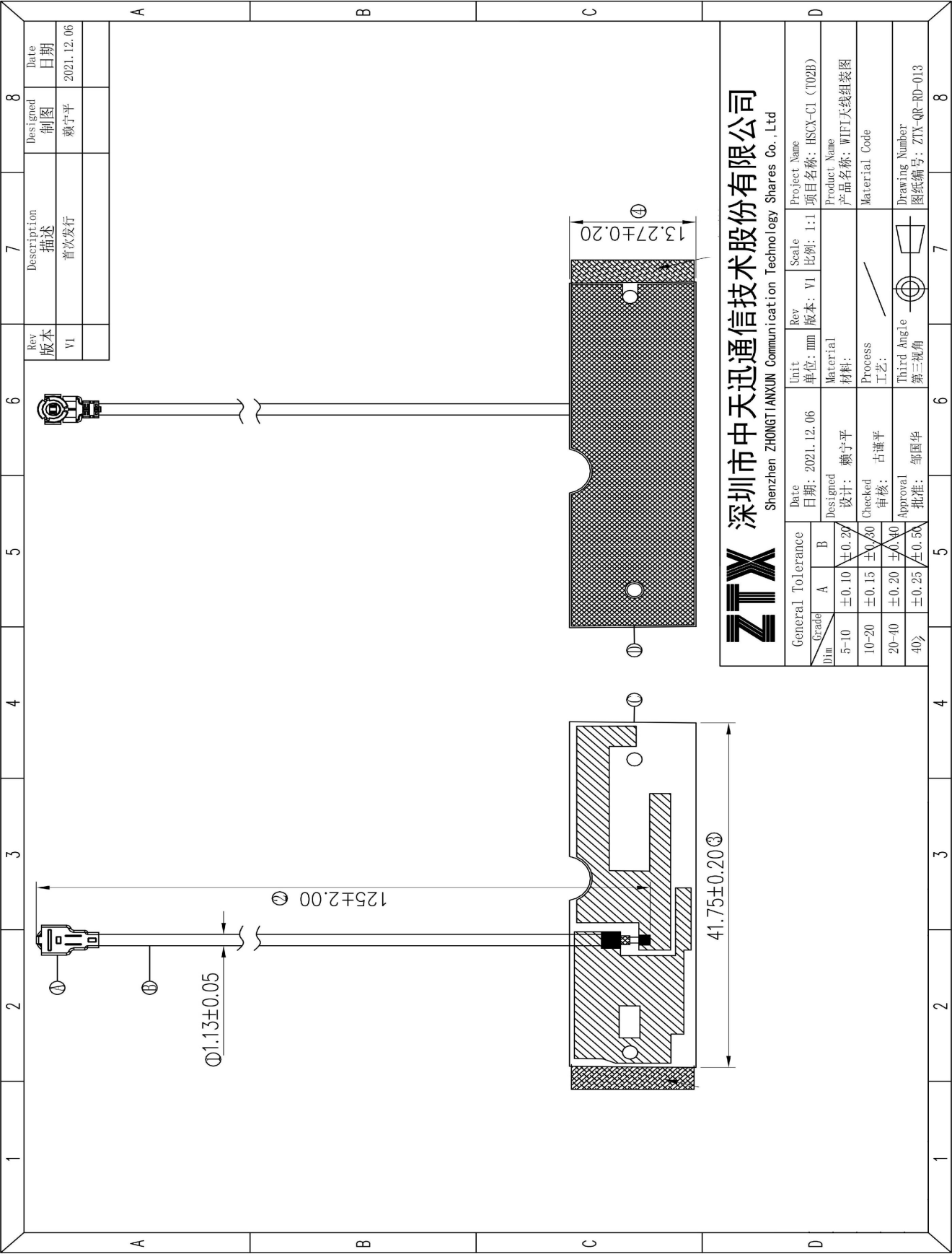
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ANTENNA SPECIFICATION

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna module)



ANTENNA SPECIFICATION

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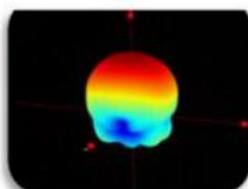
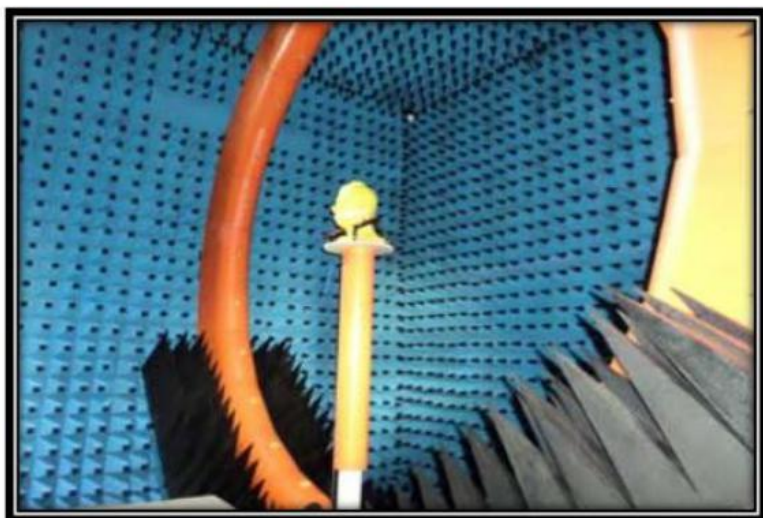
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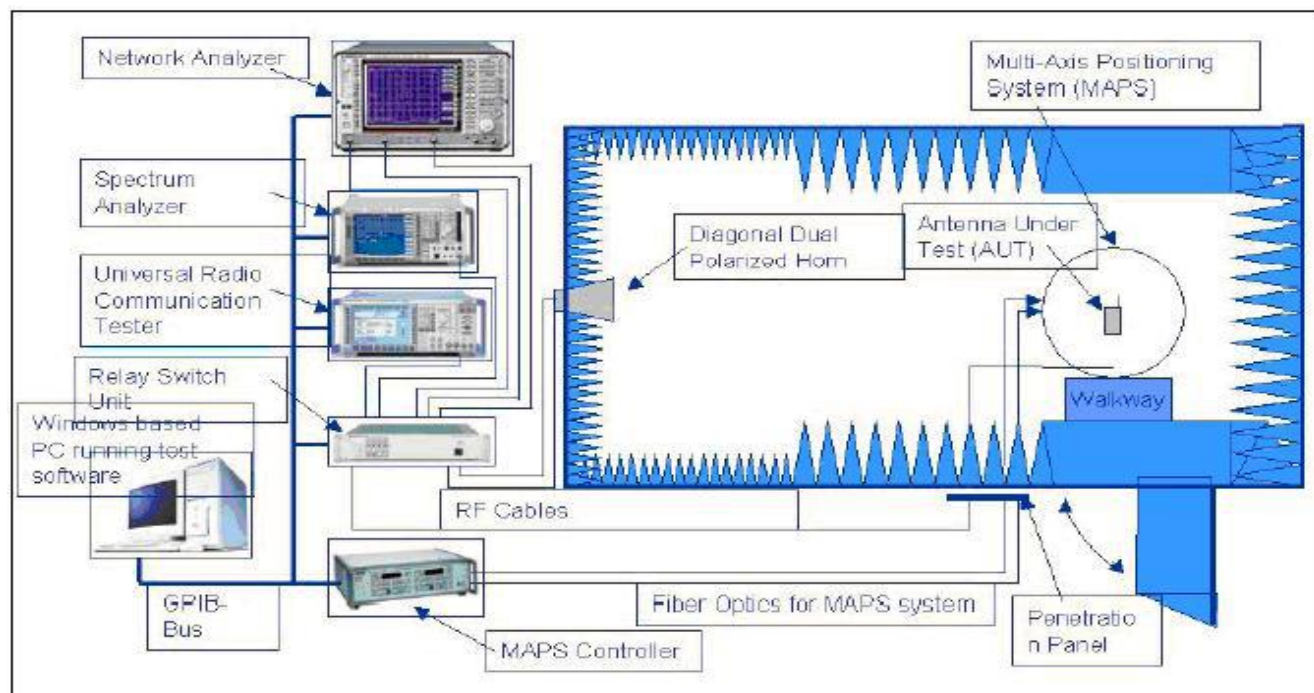
2. Test equipment



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.



ANTENNA SPECIFICATION

3.Test Results Surmmary

3-1 OTA Test

11b	Channels	TRP (1M)	TIS (11M)
	1	15.46	-81.36
	6	17.64	-82.27
	11	16.91	-82.09
11g	Channels	TRP (6M)	TIS (54M)
	1	16.25	-66.2
	6	17.14	-68.27
	11	16.24	-66.81
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	16.08	-60.09
	6	17.52	-62.76
	11	16.43	-61.47

3-2 Transmit Test

11b	Channels	TRP (1M)	TIS (11M)
	1	16.63	-88.22
	6	18.31	-88.59
	11	18.54	-88.63
11g	Channels	TRP (6M)	TIS (54M)
	1	17.15	-73.02
	6	17.92	-72.88
	11	17.45	-73.15
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	17.13	-67.83
	6	17.97	-67.85
	11	17.28	-67.79

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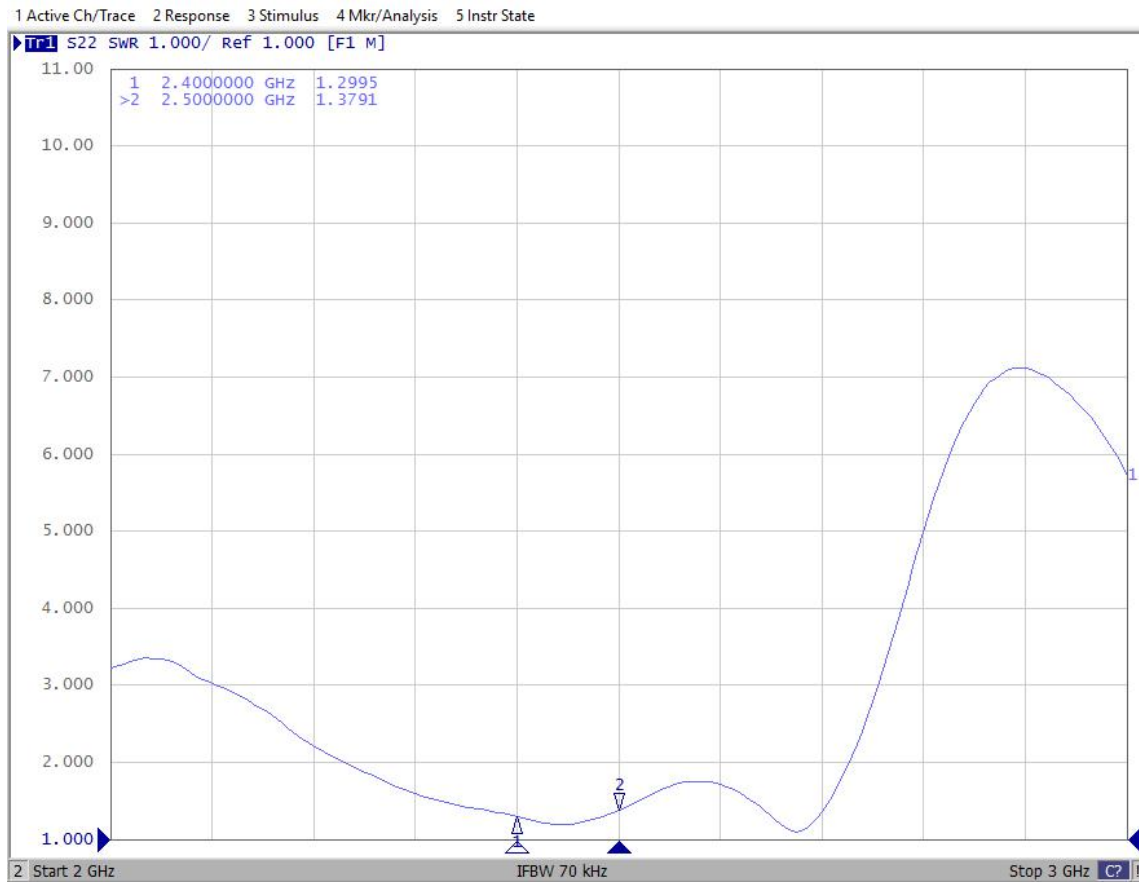
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3-3 VSWR



3-4 No-source test data

Frequency	Efficiency	Efficiency (dB)	Gain (dB)
2400MHz	60%	-2.75	3.95
2410MHz	61%	-2.71	3.19
2420MHz	62%	-2.63	3.58
2430MHz	61%	-2.67	3.87
2440MHz	60%	-2.72	4.20
2450MHz	60%	-2.76	4.30
2460MHz	60%	-2.73	4.24
2470MHz	58%	-2.93	4.26
2480MHz	57%	-2.98	4.30
2490MHz	57%	-2.99	4.63
2500MHz	59%	-2.88	4.64

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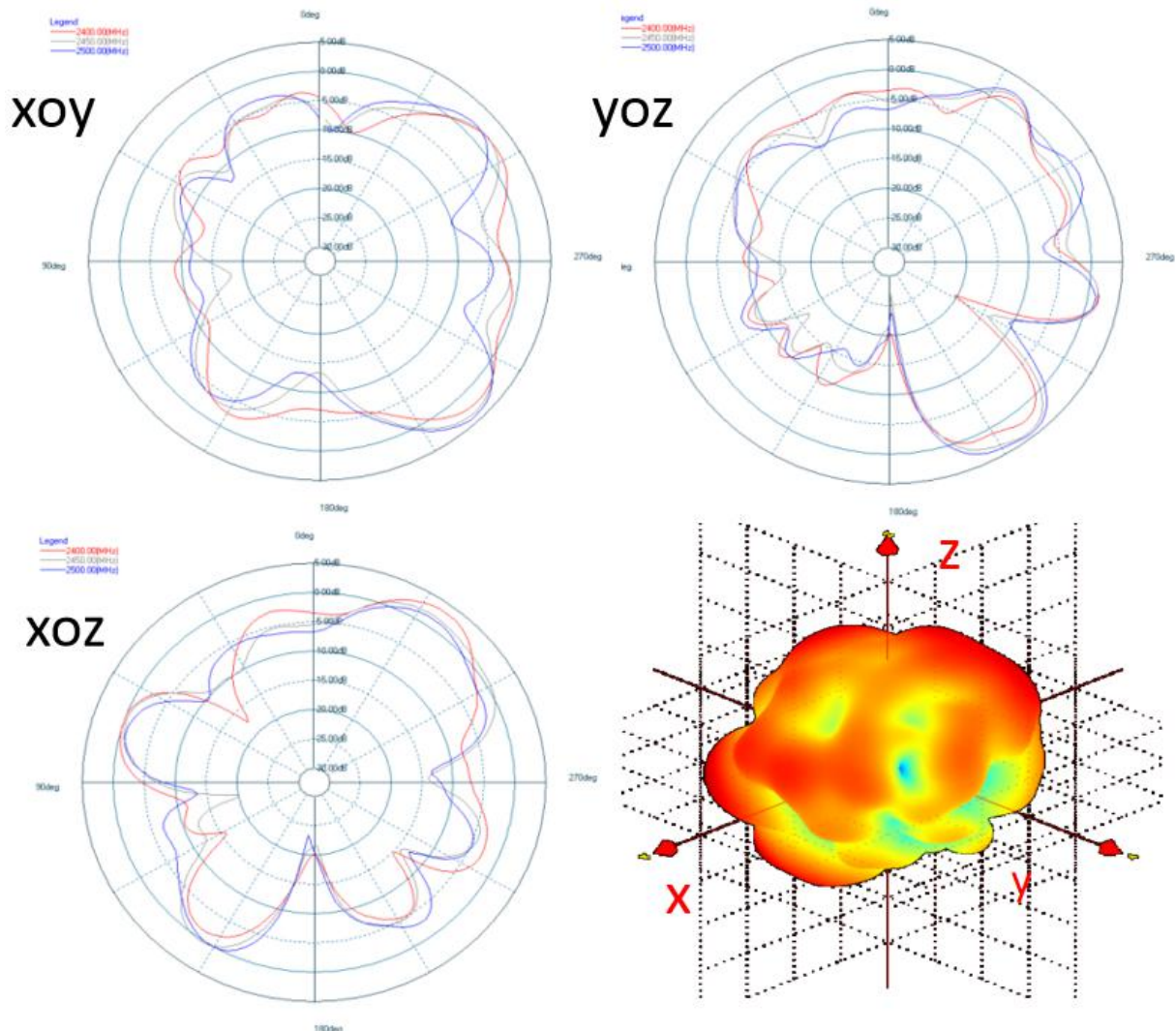
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3-5 Environment treatment



3-6 2D/3D Radiation Pattern Results



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4.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +70 ±2℃	No material deformation is allowed.
		2.Humidity: 90~95%RH	
4-2	Low Temperature/Humidity Storage Test(non operating)	3.Time: 48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.
		1.Temperature: -30±2℃	
		2.Humidity: 0%RH	
		3.Time:48hrs	