

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER	HESUNG	
	CS P/N	DR-HTF009S	
	PART NAME	WIFI antenna module	
	FREQUENCY	2.4~2.5GHz	
	ZTX NO.	2.00006416	
	DATE	2023-12-20	

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
		柯友杰	冯广权	

ZTX 中天迅

Shenzhen ZTX Communication Technology Co., Ltd

Address: No. 34, Shilong Avenue, Shiyan Town, Bao 'an District, Shenzhen City (Tengda Industrial Park)

Post code: 518000

Tel: 0755-27588320

FAX: 0755-27588045

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023

Rev: R:A1

ZTX P/N :DR-HTF009S WIFI

Editor:

Page 1 of 7

Revision history

Versions	Date	State
A1	2023-12-20	first edition

ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023

Rev: R:A1

ZTX P/N :DR-HTF009S WIFI

Editor:

Page 2 of 7

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification	3
2		Test equipment	4
3		Test Results Summary	5
	3-1	OTA Test	5
	3-2	VSWR	5
	3-3	No-source test data	5
	3-4	Environmental treatment	6
	3-5	2D/3D Radiation Pattern Results	7
4		Environment Characteristic	

ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI

ZTX P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023

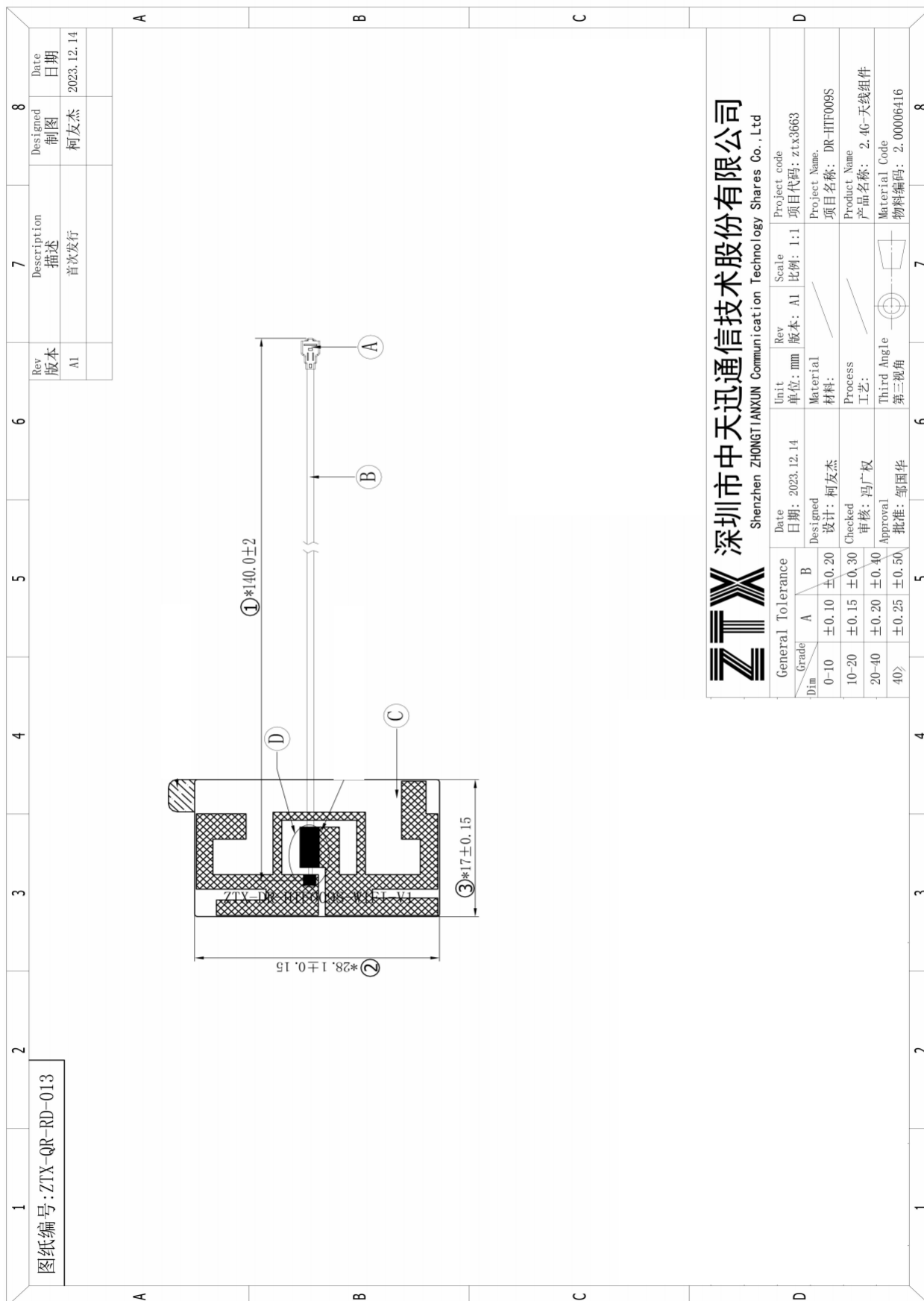
Editor:

Rev: R:A1

Page 3 of 7

1. Mechanical Specification

1-1 Mechanical Configuration



ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023

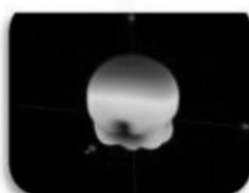
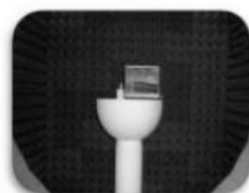
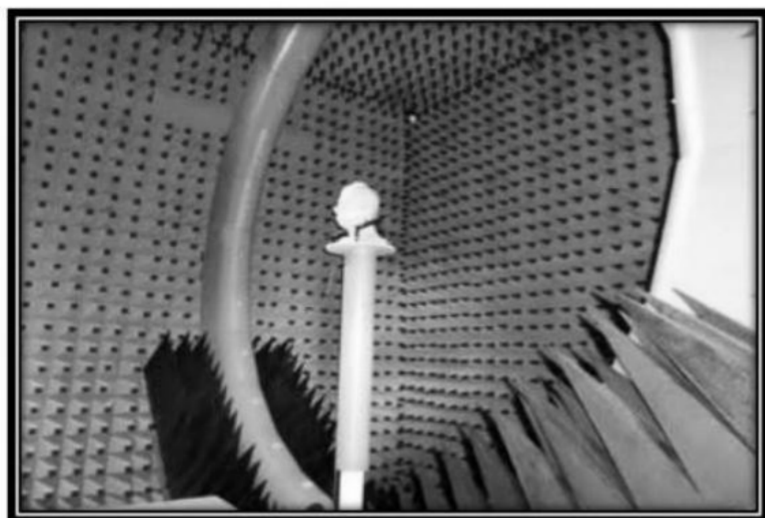
Rev: R:A1

ZTX P/N :DR-HTF009S WIFI

Editor:

Page 4 of 7

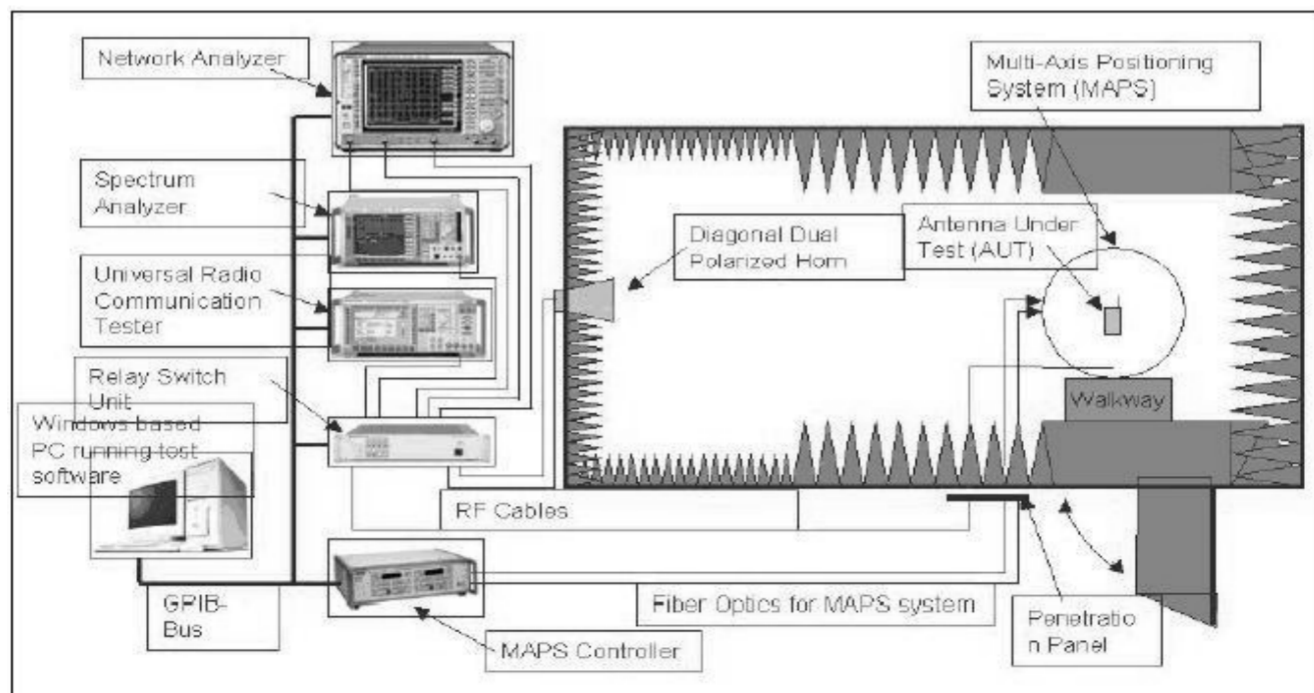
2. Test equipment



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.



ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023

Rev: R:A1

ZTX P/N :DR-HTF009S WIFI

Editor:

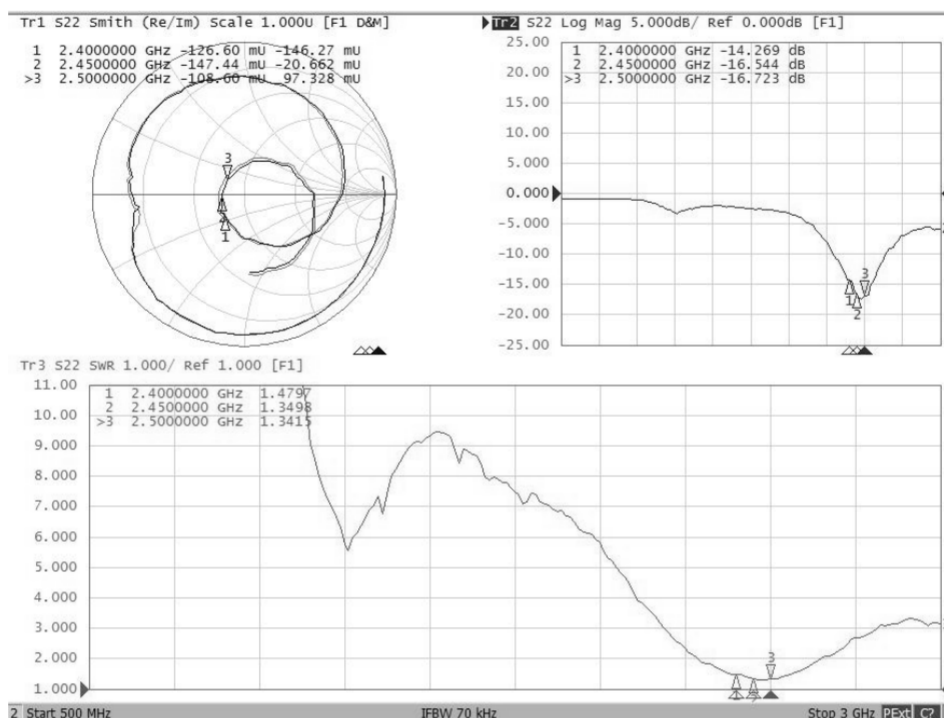
Page 5 of 7

3.Test Results Summary

3-1 OTA Test

B			G			N		
	TRP	TIS		TRP	TIS		TRP	TIS
1	16.22	-85.68	1	13.68	-71.5	1	13.76	-65.33
6	15.82	-85.69	6	12.89	-71.68	6	12.97	-66.2
11	16.64	-84.49	11	13.35	-70.55	11	13.22	-65.47

3-2 VSWR



3-3 No-source test data

Frequency	Efficiency	Efficiency	Gain . dB
2400	64%	-1.9	5.1
2410	62%	-2.1	4.8
2420	64%	-1.9	4.9
2430	64%	-2.0	4.0
2440	62%	-2.1	4.0
2450	61%	-2.1	5.1
2460	62%	-2.1	5.3
2470	65%	-1.9	5.6
2480	64%	-2.0	5.6
2490	63%	-2.0	5.5
2500	65%	-1.9	5.8

ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023

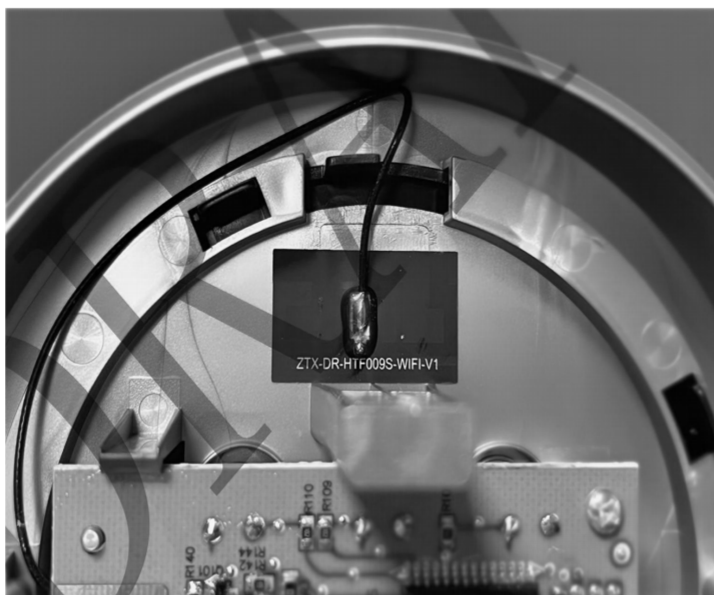
Rev: R:A1

ZTX P/N :DR-HTF009S WIFI

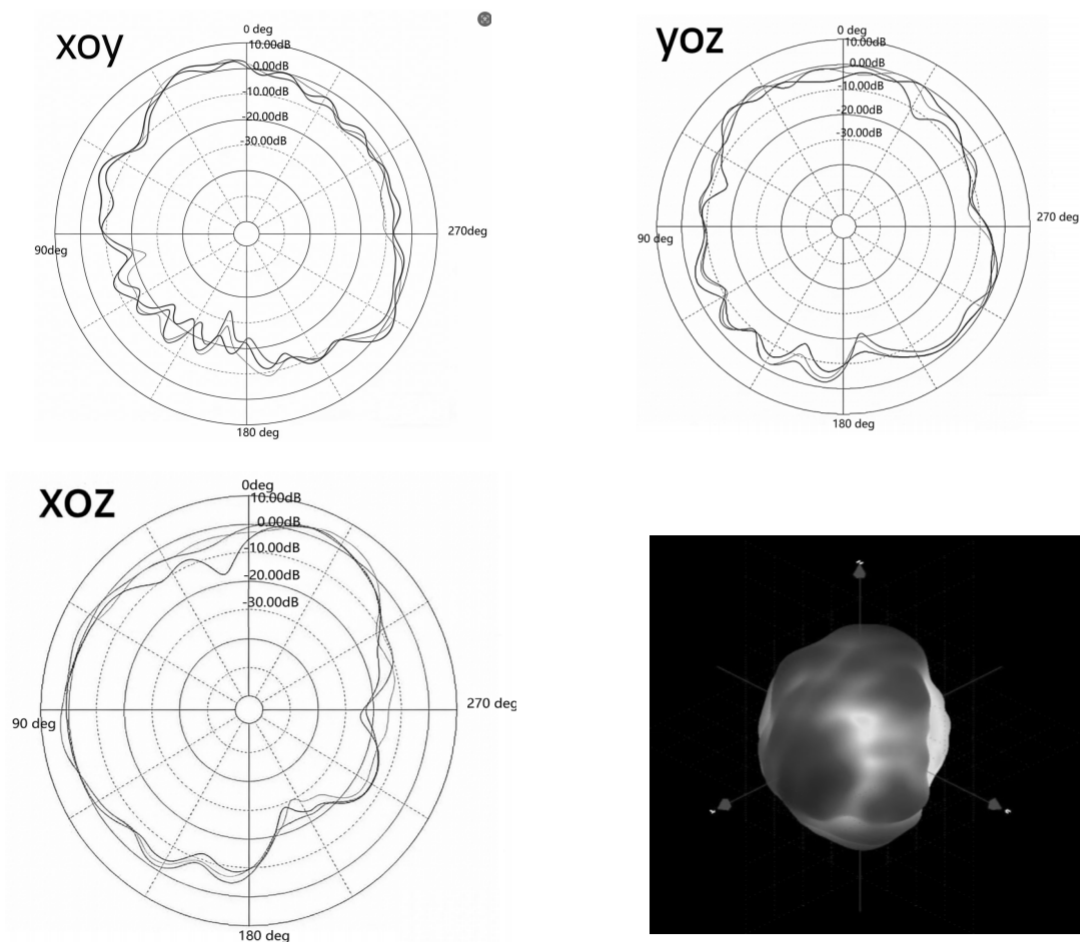
Editor:

Page 6 of 7

3-4 Environmental treatment



3-5 2D/3D Radiation Pattern Results



ANTENNA SPECIFICATION

CUS P/N :DR-HTF009S WIFI
ZTX P/N :DR-HTF009S WIFI

Application Date:Dec,20,2023 Rev: R:A1
Editor: Page 7 of 7

4.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
5-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +70 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
5-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.