

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Hesung Innovation Limited
CS P/N	DR-HTF009S
PART NAME	2.4G Antenna
FREQUENCY	2.4~2.5GHz
ZTX NO.	2.00006416
DATE	2023-11-29

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Youjie Ke	Guangquan Feng	

 **中天迅**

Shenzhen ZTX Communication Technology Co., Ltd

Address: No.34, Shilong Avenue, Shiyao Town, Baoan District, Shenzhen, (Tengda Industrial Park) 518000

Tel: 0755-27588320 Fax: 0755-27588045 <http://www.chinaztx.com>

# ANTENNA SPECIFICATION

CUS P/N:DR-HTF009S 2.4G Antenna  
ZTX P/N:DR-HTF009S 2.4G Antenna

Application Date:Nov,29,2023  
Editor:

Rev: R:A0  
Page 1 of 6

---

## Revision history

Edition	Date	state
A0	2023-11-29	First edition

# ANTENNA SPECIFICATION

CUS P/N:DR-HTF009S 2.4G Antenna

Application Date:Nov,29,2023

Rev: R:A0

ZTX P/N:DR-HTF009S 2.4G Antenna

Editor:

Page 2 of 6

---

## Index

		<b>Revision history</b>	<b>1</b>
		<b>Index</b>	<b>2</b>
<b>1</b>		<b>Mechanical Specification</b>	<b>3</b>
	<b>1-1</b>	<b>Mechanical Specification(2.4G Antenna)</b>	<b>3</b>
<b>2</b>		<b>Test equipment</b>	<b>4</b>
<b>3</b>		<b>Test Results Summary</b>	<b>5</b>
	<b>3-1</b>	<b>OTA Test</b>	<b>5</b>
	<b>3-2</b>	<b>VSWR</b>	<b>5</b>
	<b>3-3</b>	<b>No-source test data</b>	<b>5</b>
	<b>3-4</b>	<b>Environmental treatment</b>	<b>6</b>

# ANTENNA SPECIFICATION

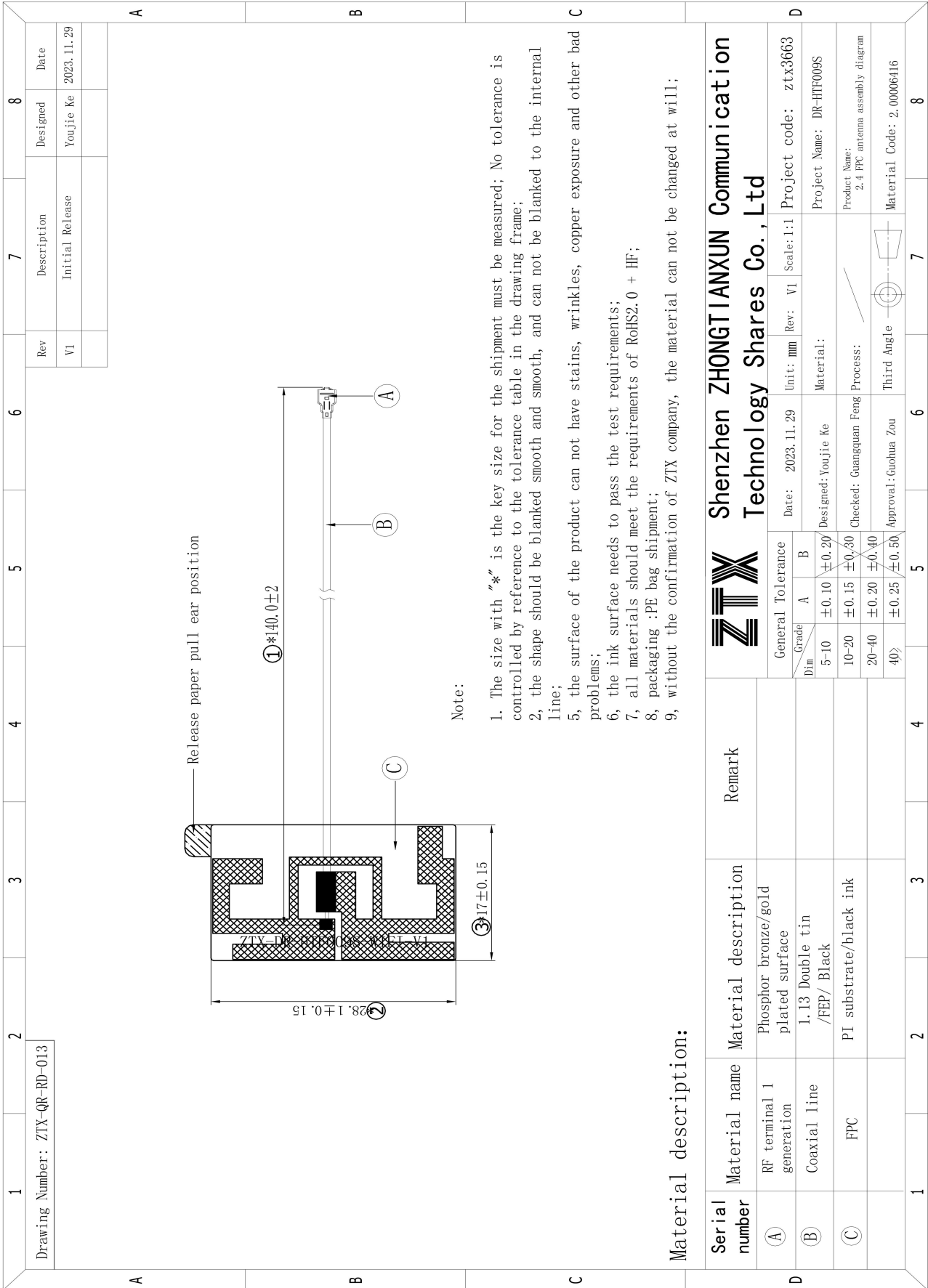
CUS P/N:DR-HTF009S 2.4G Antenna  
ZTX P/N:DR-HTF009S 2.4G Antenna

Application Date:Nov,29,2023  
Editor:

Rev: R:A0  
Page 3 of 6

## 1. Mechanical Specification

### 1-1 Mechanical Configuration (2.4G Antenna)



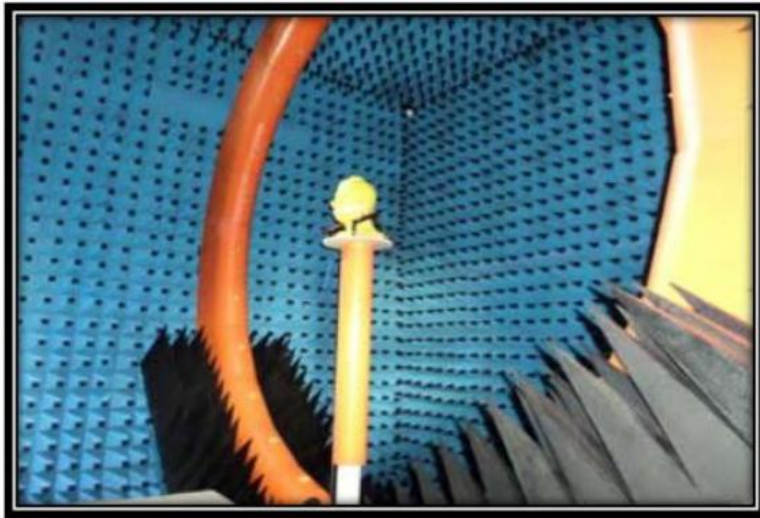
# ANTENNA SPECIFICATION

CUS P/N:DR-HTF009S 2.4G Antenna  
ZTX P/N:DR-HTF009S 2.4G Antenna

Application Date:Nov,29,2023  
Editor:

Rev: R:A0  
Page 4 of 6

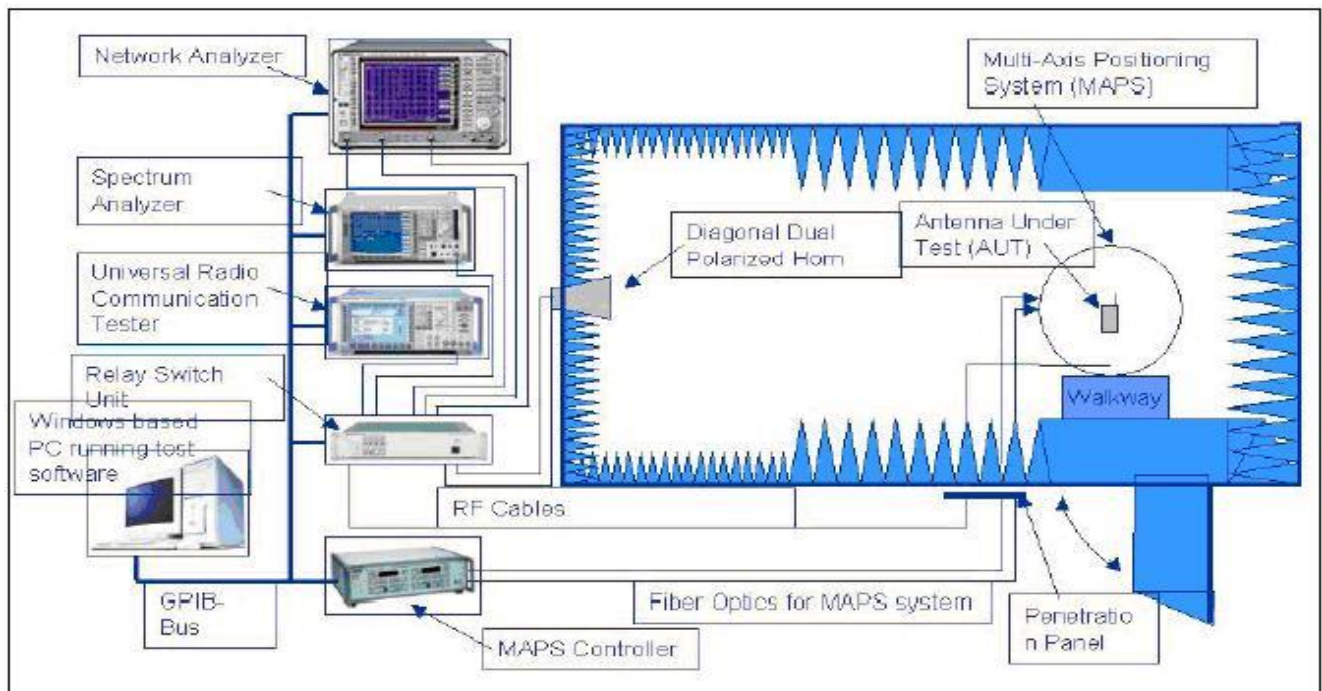
## 2. Test equipment



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 2.4G Antenna  
ZTX P/N:DR-HTF009S 2.4G Antenna

Application Date:Nov,29,2023  
Editor:

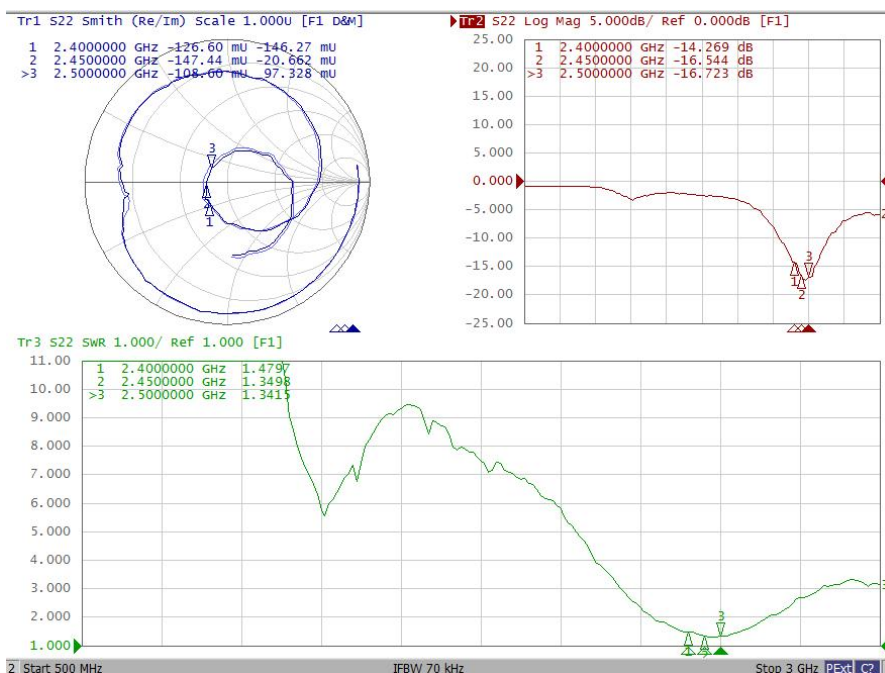
Rev: R:A0  
Page 5 of 6

## 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 2.4G Antenna  
ZTX P/N:DR-HTF009S 2.4G Antenna

Application Date:Nov,29,2023  
Editor:

Rev: R:A0  
Page 6 of 6

---

## 3-4 Environmental treatment

