

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Hesung Innovation Limited
CS P/N	DR-HPF004S
PART NAME	2.4G Antenna
FREQUENCY	2.4~2.5GHz
ZTX NO.	2.00000702
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 2023.11.29	MANAGER CHECKED	ME CHECKED Zhengwei Chen	RF CHECKED Jinping Gu	LISTER



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

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ApplicationDate:Nov,29,2023

Rev: R:A0

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Editor:

Page 1 of 7

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## Revision history

Edition	Date	state
A0	2023-11-29	First edition

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ZTX P/N :DR-HPF004S 2.4G Antenna

Editor:

Page 2 of 7

---

## 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>Active 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>6</b>
	<b>3-4</b>	<b>2D/3D Radiation Pattern Results</b>	<b>7</b>
	<b>3-5</b>	<b>Environment treatment</b>	<b>7</b>

# ANTENNA SPECIFICATION

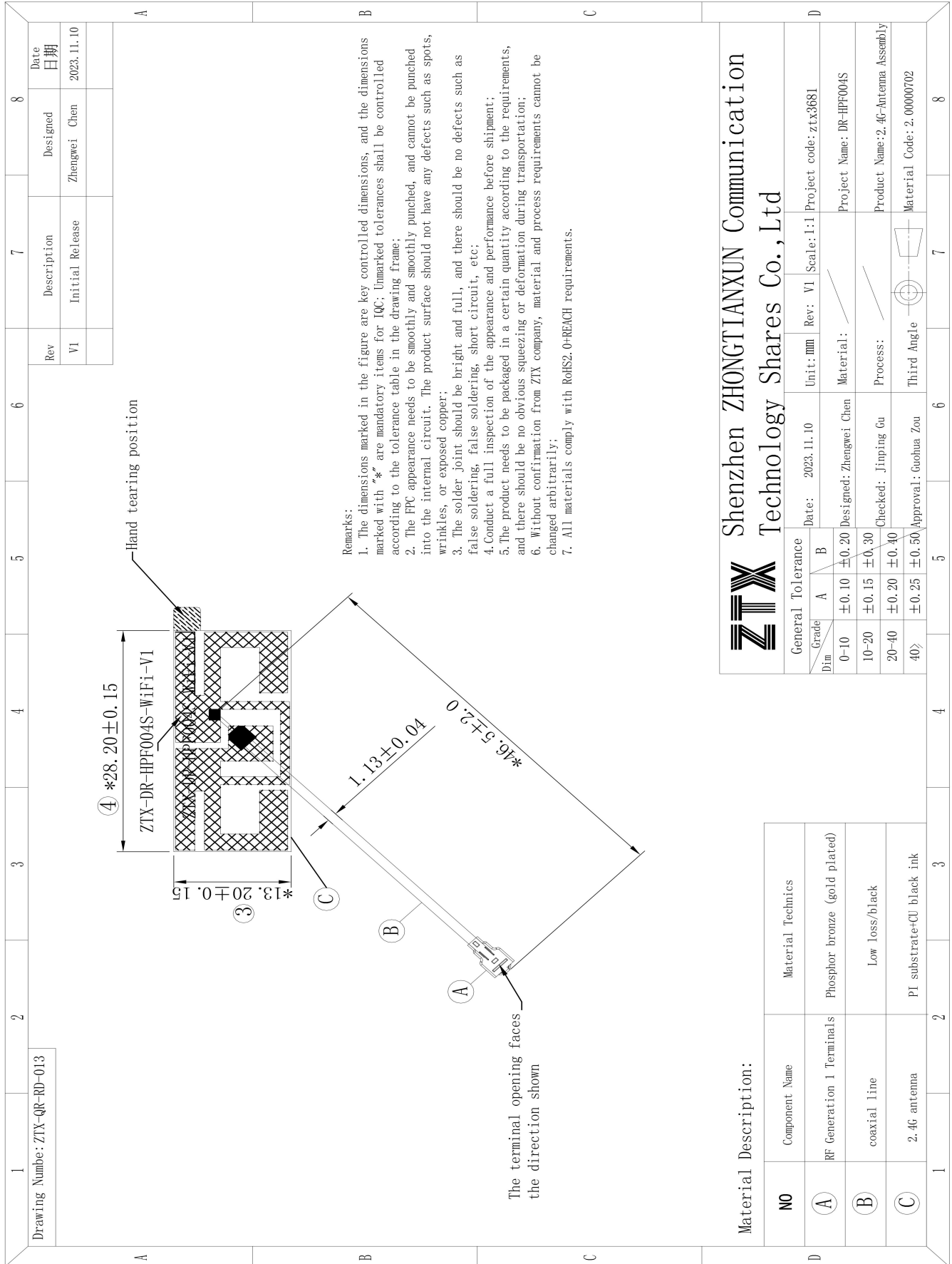
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ZTX P/N :DR-HPF004S 2.4G Antenna

ApplicationDate:Nov,29,2023  
Editor:

Rev: R:A0  
Page 3 of 7

## 1. Mechanical Specification

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



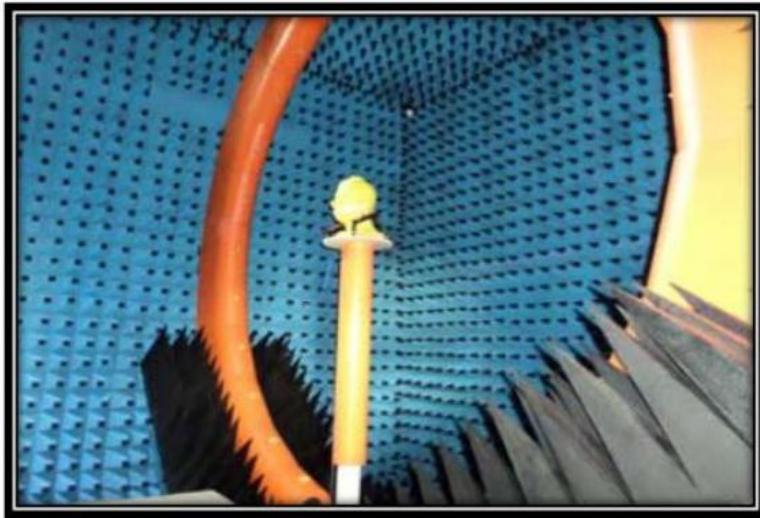
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ZTX P/N :DR-HPF004S 2.4G Antenna

ApplicationDate:Nov,29,2023  
Editor:

Rev: R:A0  
Page 4 of 7

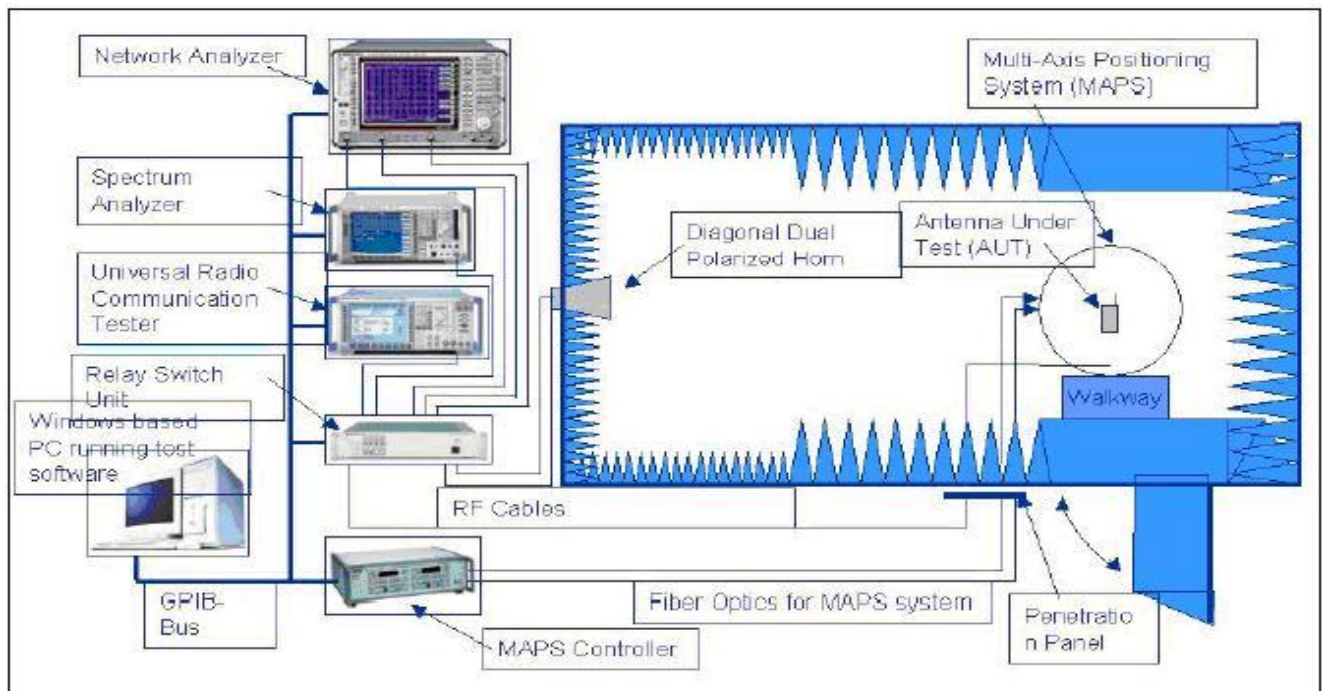
## 2. Test equipment



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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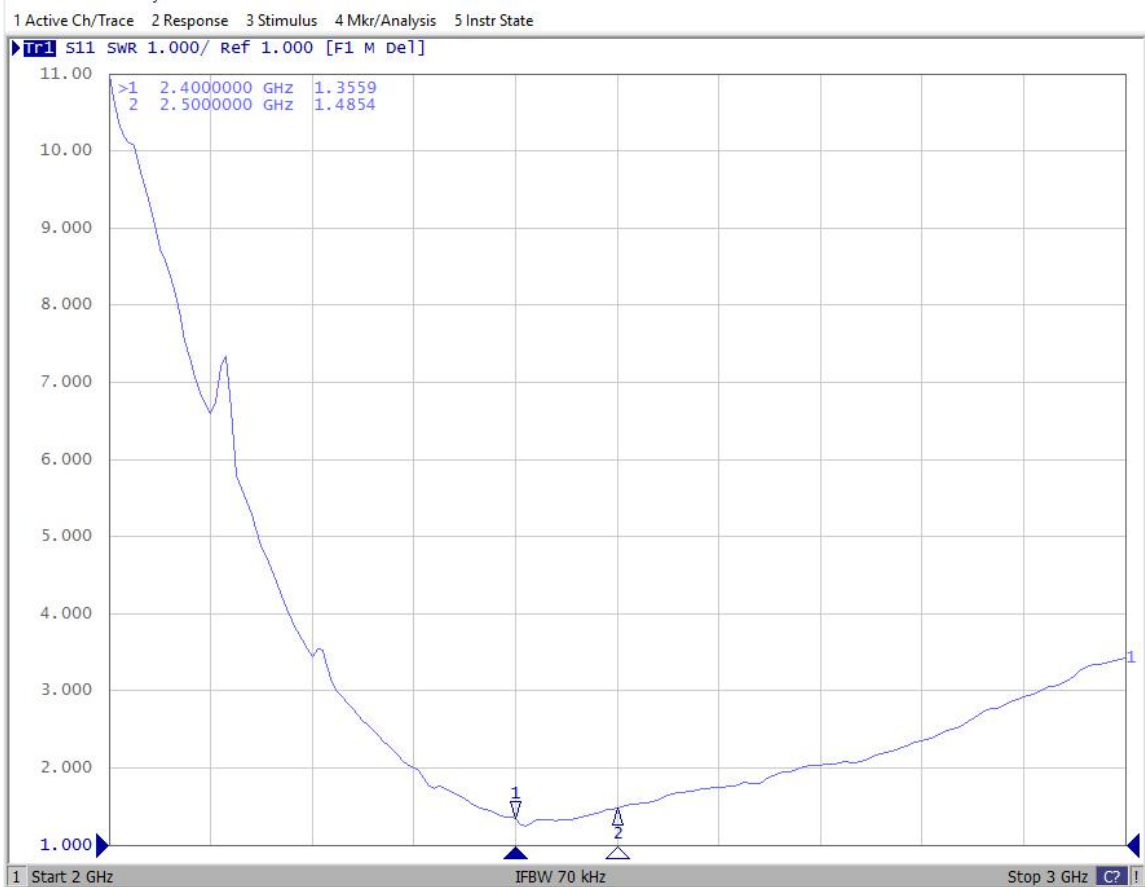
Rev: R:A0  
Page 5 of 7

## 3.Test Results Summary

### 3-1 Active Test

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11b	Channels	TRP (1M)	TIS (11M)
	1	14.75	-82.36
	6	15.01	-82.13
11g	Channels	TRP (6M)	TIS (54M)
	1	12.47	-67.36
	6	12.36	-67.85
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	12.16	-62.51
	6	12.58	-62.39
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	12.16	-62.51
	6	12.58	-62.39
11n	Channels	TRP (MCS0)	TIS (MCS7)
	1	12.16	-62.51
	6	12.58	-62.39

### 3-2 VSWR



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Rev: R:A0

ZTX P/N :DR-HPF004S 2.4G Antenna

Editor:

Page 6 of 7

## 3-3 No-source test data

Frequency	Efficiency	Efficiency (dB)	Gain (dB)
2400MHz	55%	-2.63	3.80
2410MHz	53%	-2.80	3.37
2420MHz	55%	-2.57	3.53
2430MHz	55%	-2.61	3.22
2440MHz	55%	-2.58	3.17
2450MHz	55%	-2.58	3.27
2460MHz	56%	-2.52	3.44
2470MHz	56%	-2.48	3.44
2480MHz	56%	-2.51	3.34
2490MHz	56%	-2.49	3.30
2500MHz	56%	-2.54	3.14

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Rev: R:A0

ZTX P/N :DR-HPF004S 2.4G Antenna

Editor:

Page 7 of 7

---

## 3-5 Environment treatment





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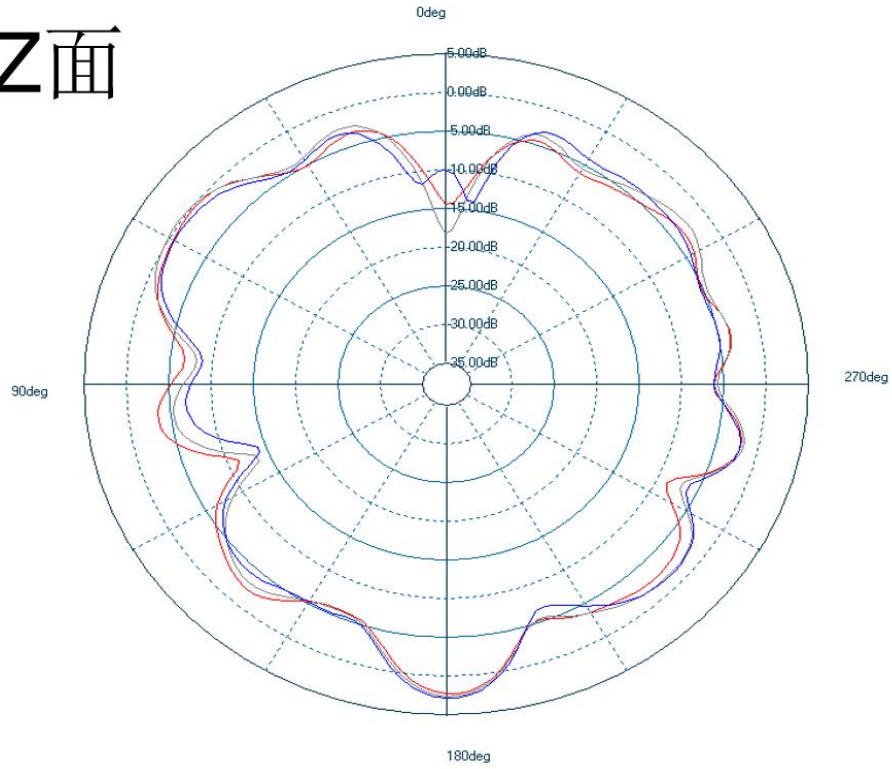
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Application Date:Nov,09,2023  
Editor:

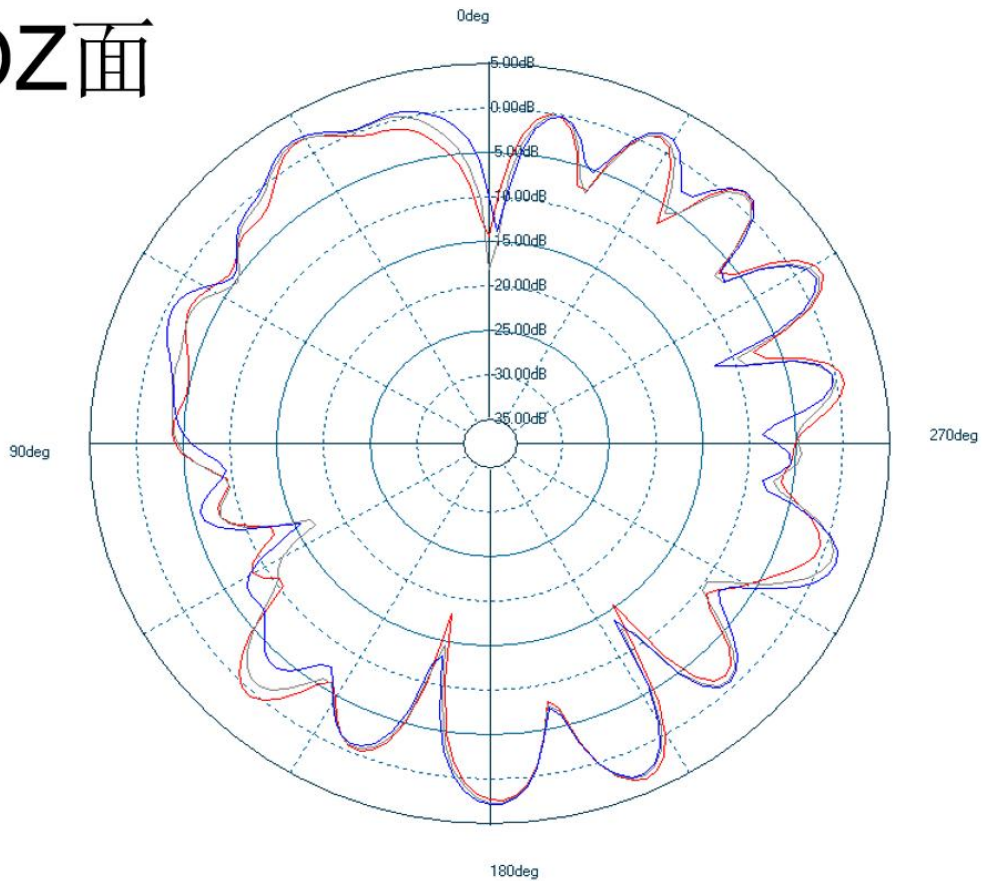
Rev: R:A0  
Page 7 of 9

## 3-4 2D/3D Radiation Pattern Results

### XOZ面



### YOZ面



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Application Date:Nov,09,2023  
Editor:

Rev: R:A0  
Page 8 of 9

## XOY面

