

致 (TO) : Dongguan Jiasong Electronic Technology Co., LTD

Date: September 3, 2024

承 認 書

(APPROVAL SHEET)

ROHS ☐

REACH ☐

CP65 ☐

HF ☐

品 名 :

PART NAME :

DR-SBM001

规 格 :

SPECIFICATION:

WIFI antenna shrapnel

承 認 章	APPROVED BY
东莞市中天通信技术有限公司 2024.09.03 研发专用章 Le. Qian. Wang	

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	jiasong	
	CS P/N	DR-SBM001	
	PART NAME	WIFI antenna shrapnel	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	1.01.00913	
	DATE	2024-09-03	

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
		Le.Qin	Qian.Wang	



Shenzhen ZTX Communication Technology Co., Ltd

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

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

ANTENNA SPECIFICATION

Revision history

edition	date	state
A0	2024-09-03	first edition

ANTENNA SPECIFICATION

CUS P/N :DR-SBM001_WIFI antenna shrapnel

Application Date:Sep,03,2024

Rev: R:A0

ZTX P/N : DR-SBM001_WIFI antenna shrapnel

Editor:

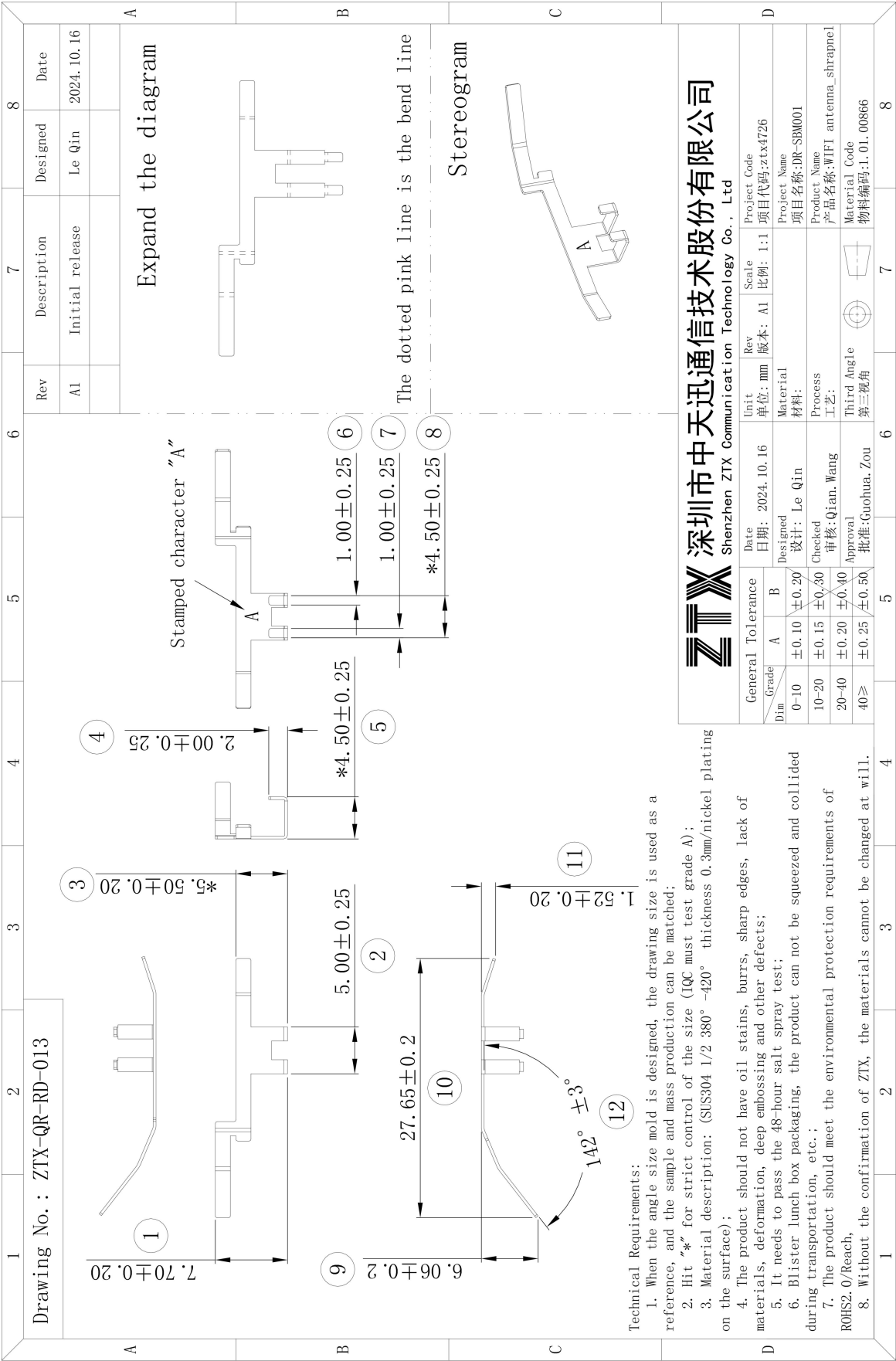
Page 2 of 7

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification (WIFI antenna shrapnel)	4
2		Test equipment	4
	2-1	VSWR	5
	2-2	Active Test	5
	2-3	Passive Test	5
	2-4	2D/3D Radiation Pattern Results	6
	2-5	Isolation	7

ANTENNA SPECIFICATION

1.Mechanical Specification
1-1 Mechanical Configuration (WIFI antenna shrapnel)



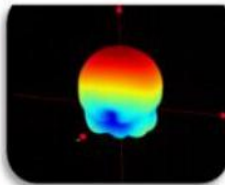
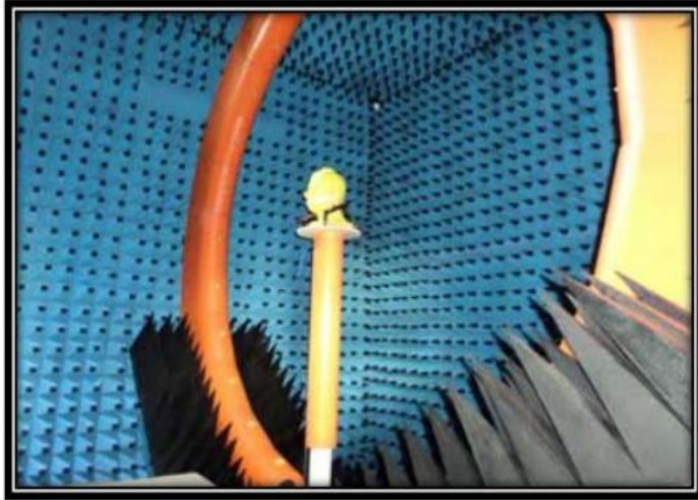
ANTENNA SPECIFICATION

CUS P/N :DR-SBM001_WIFI antenna shrapnel
ZTX P/N : DR-SBM001_WIFI antenna shrapnel

Application Date: Sep, 03, 2024
Editor:

Rev: R:A0
Page 4 of 7

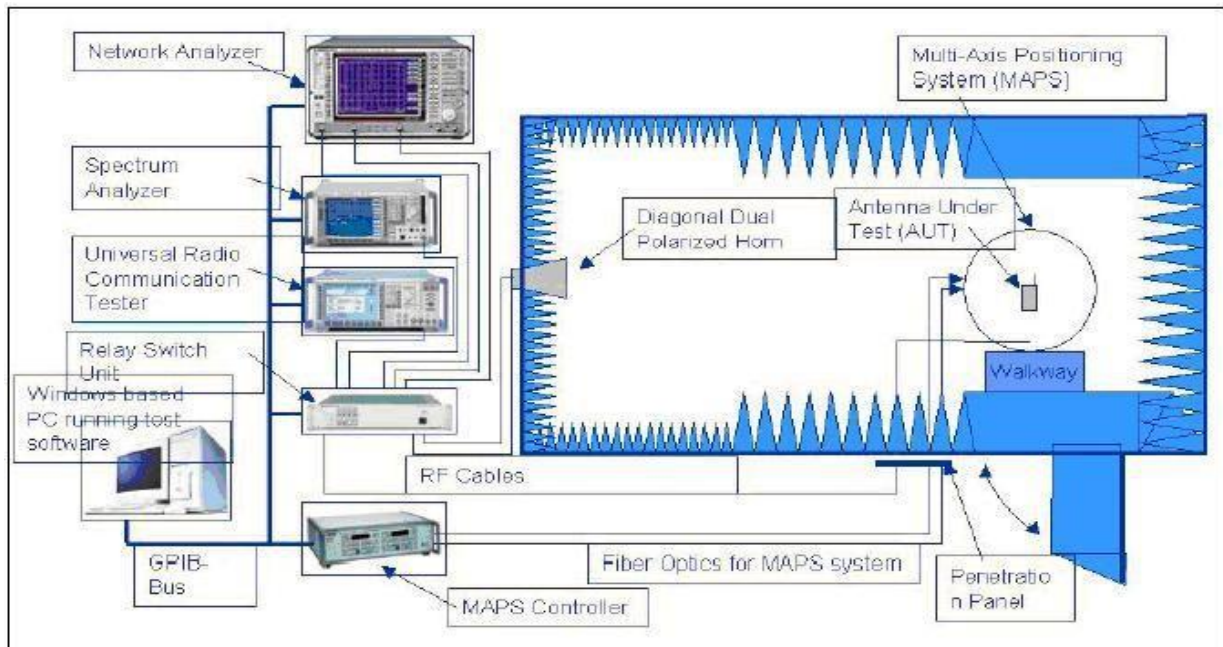
2. Test equipment



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.



ANTENNA SPECIFICATION

CUS P/N :DR-SBM001_WIFI antenna shrapnel

Application Date:Sep,03,2024

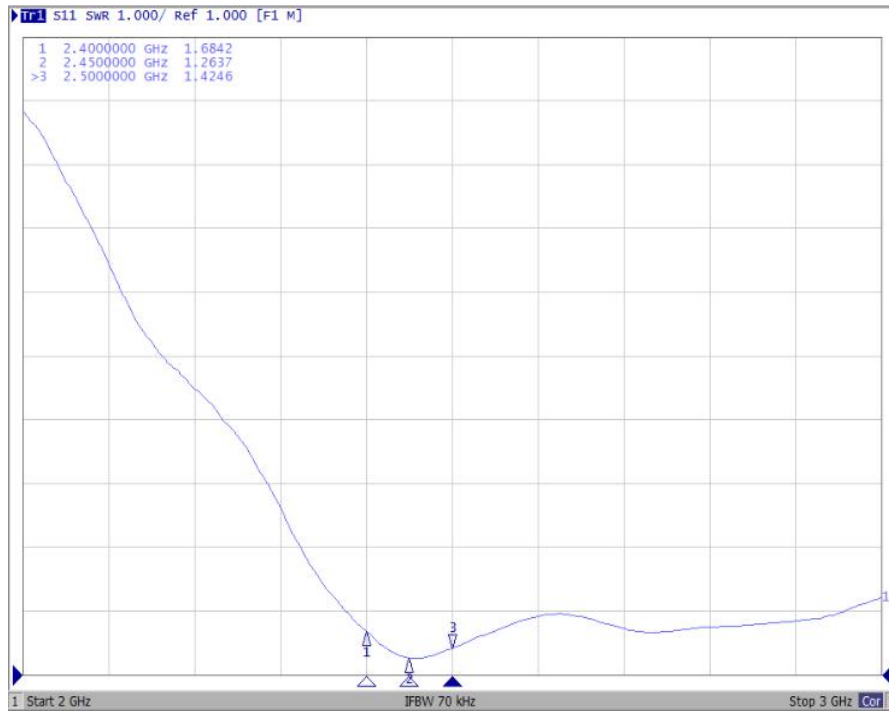
Rev: R:A0

ZTX P/N : DR-SBM001_WIFI antenna shrapnel

Editor:

Page 5 of 7

2-1 VSWR



2-2 Active Test

B			G			N		
Channels	TRP (11M)	TIS (11M)	Channels	TRP (6M)	TIS (54M)	Channels	TRP (MCS0)	TIS (MCS7)
1	14.29	-80.18	1	11.45	-60.05	1	11.77	-57.16
6	14.05	-83.57	6	11.39	-66.21	6	11.53	-62.16
11	13.96	-82.87	11	10.95	-65.28	11	10.99	-60.42

2-3 Passive Test

Frequency (MHZ)	Efficiency	Efficiency . dB	Gain . dB
2400	56%	-2.53	1.73
2410	58%	-2.37	1.79
2420	58%	-2.39	1.71
2430	59%	-2.29	1.80
2440	59%	-2.30	1.90
2450	60%	-2.21	1.93
2460	60%	-2.20	1.94
2470	60%	-2.23	2.04
2480	60%	-2.22	2.12
2490	59%	-2.30	2.26
2500	58%	-2.36	2.23

ANTENNA SPECIFICATION

CUS P/N :DR-SBM001_WIFI antenna shrapnel

Application Date:Sep,03,2024

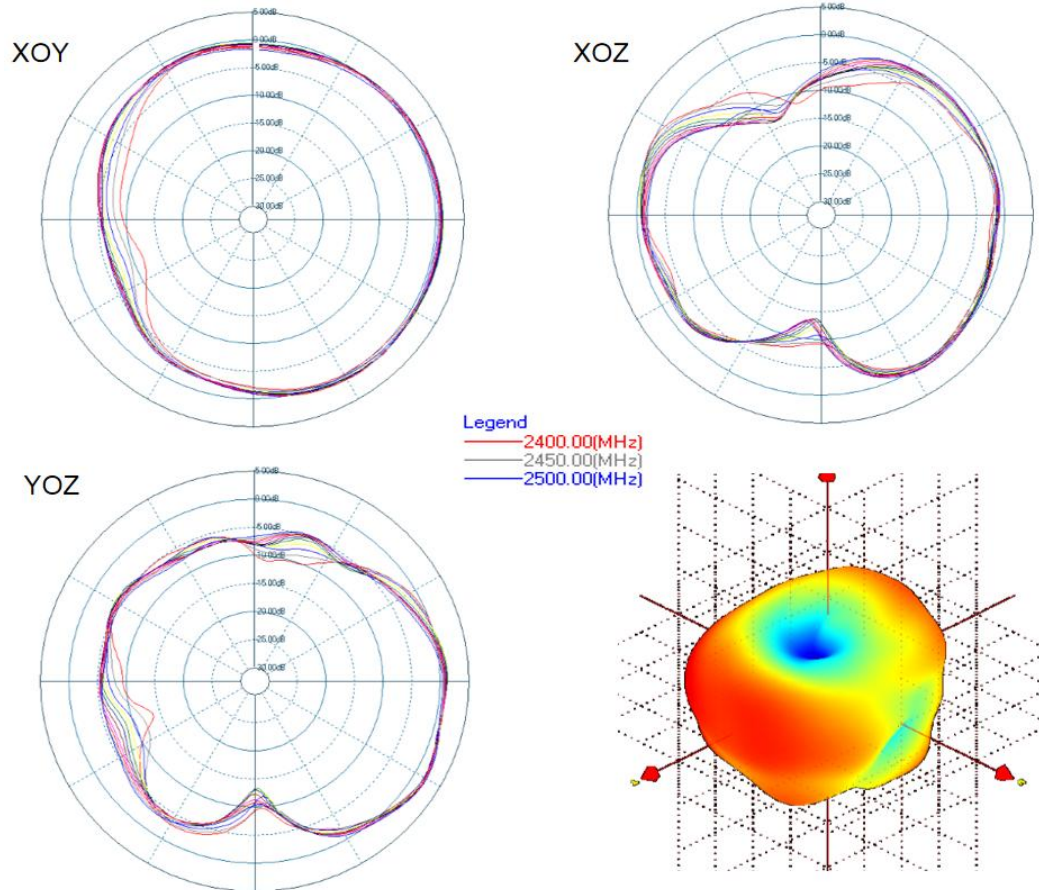
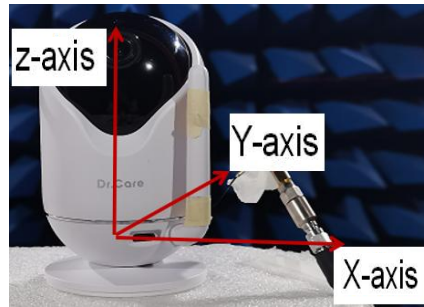
Rev: R:A0

ZTX P/N : DR-SBM001_WIFI antenna shrapnel

Editor:

Page 6 of 7

2-4 2D/3D Radiation Pattern Results



ANTENNA SPECIFICATION

CUS P/N :DR-SBM001_WIFI antenna shrapnel

Application Date:Sep,03,2024

Rev: R:A0

ZTX P/N : DR-SBM001_WIFI antenna shrapnel

Editor:

Page 7 of 7

2-5 Isolation

WiFi shrapnel antenna & copper tube 2.4G antenna

