

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER		
	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	



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ANTENNA SPECIFICATION

Revision history

edition	date	state
A0	2024-09-03	first edition

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CUS P/N :DR-SBM001_WIFI antenna shrapnel

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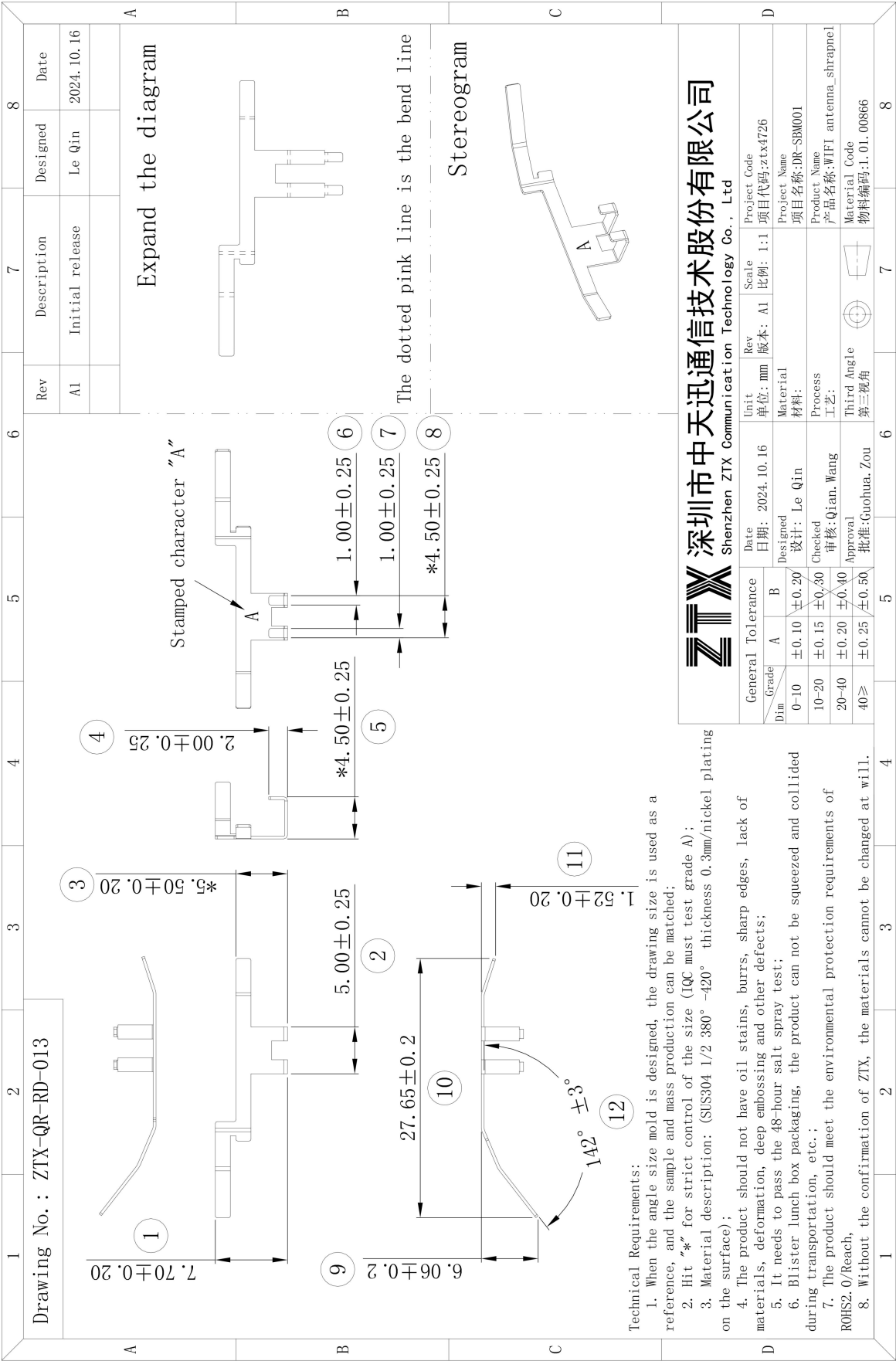
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ANTENNA SPECIFICATION

1.Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna shrapnel)



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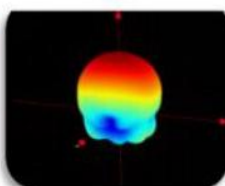
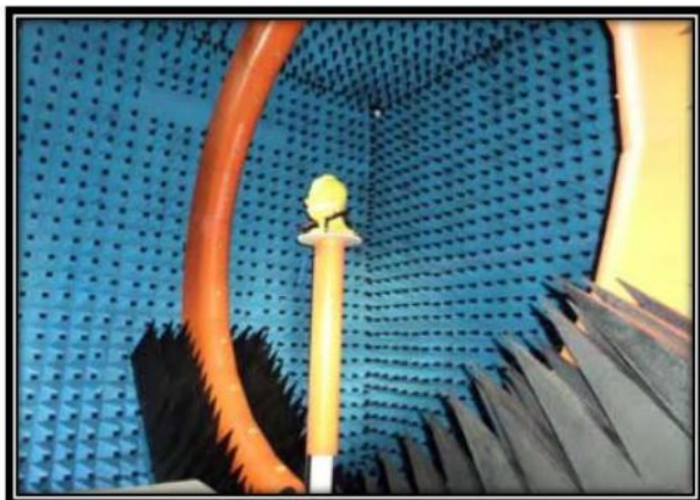
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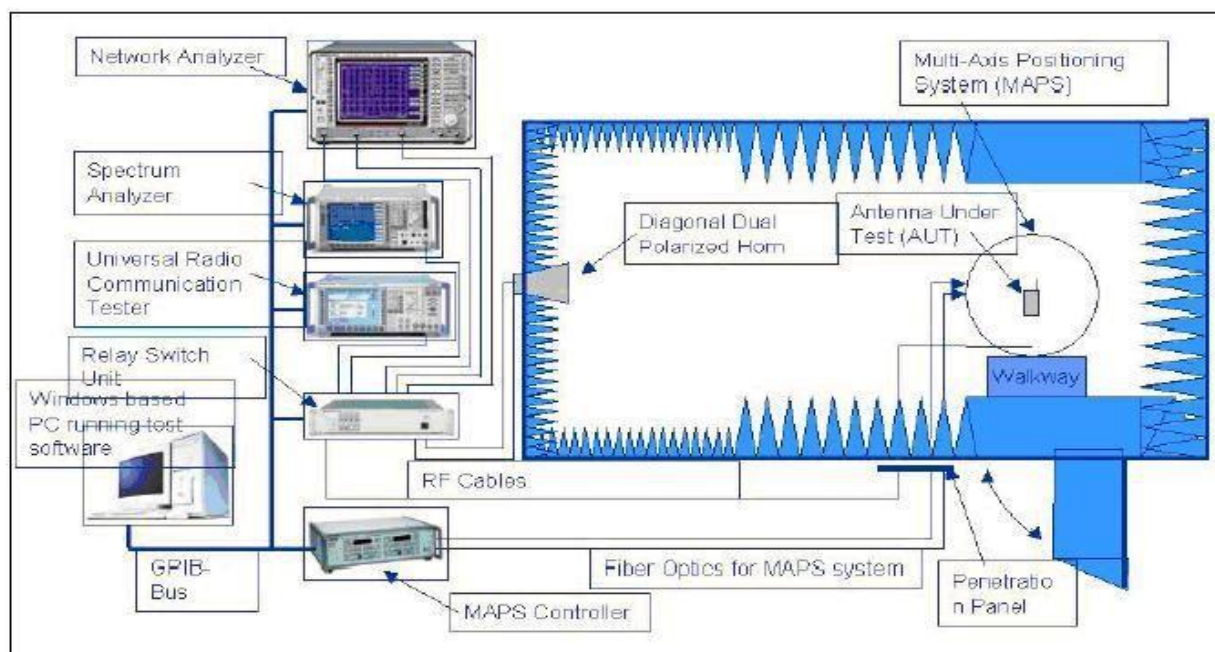
2.Test equipment



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.



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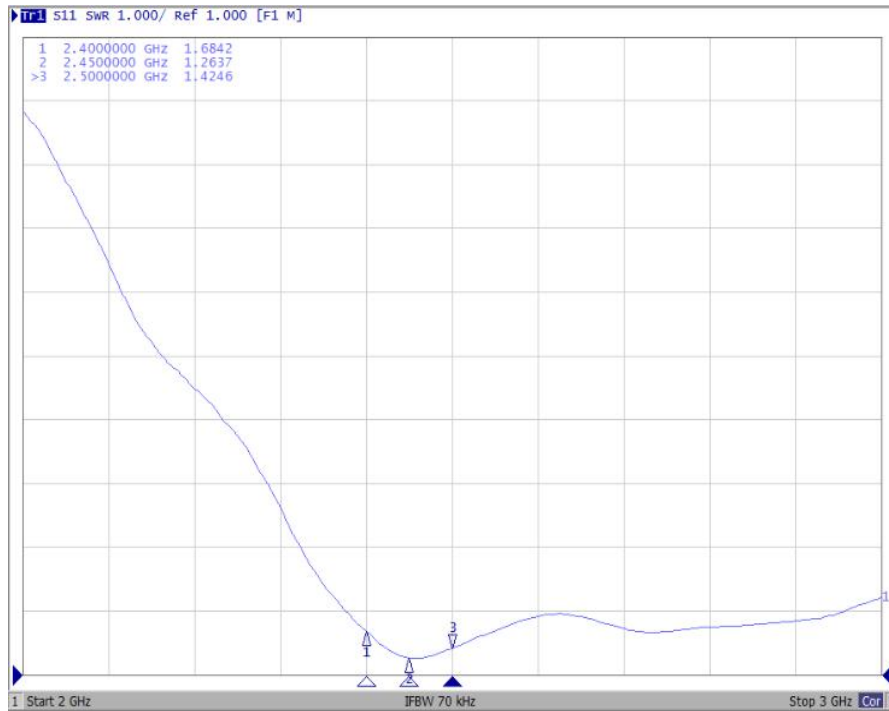
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2-1 VSWR



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 . dBi
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

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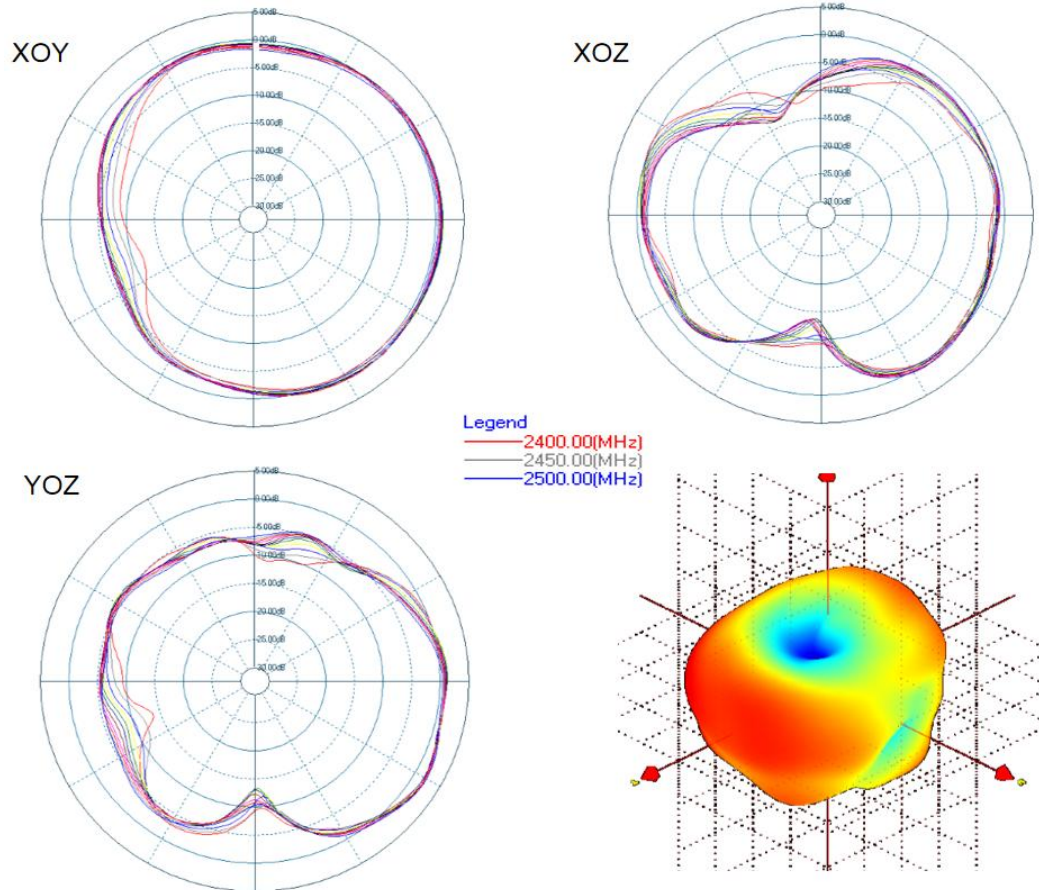
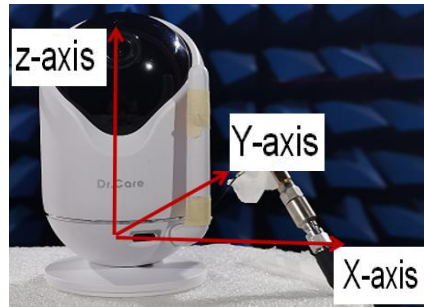
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2-4 2D/3D Radiation Pattern Results



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2-5 Isolation

WiFi shrapnel antenna & copper tube 2.4G antenna

