

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER	Anker	
CS P/N	T8707	
PART NAME	WIFI antenna assembly	
FREQUENCY	2400~2500/5150~5850MHz	
CUS NO.		
ZTX NO.	2.00001717	
DATE	2025-05-07	

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
2025.05.07		Le.Qin	Yiqing.Lin	



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

CUS P/N:T8707_WIFI antenna assembly

Application Date:May,07,2025

Rev: R:A0

ZTX P/N :T8707_WIFI antenna assembly

Editor:

Page 1 of 10

Revision history

Edition	Date	state
A0	2025-05-07	First edition

ANTENNA SPECIFICATION

CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 2 of 10

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification (WIFI antenna assembly)	3
2		Test equipment	4
3		Test Results Surmmary	5
	3-1	S11	5
	3-2	No-source test data	6
	3-3	2D/3D Radiation Pattern Results	7~10

ANTENNA SPECIFICATION

Application Date:May,07,2025

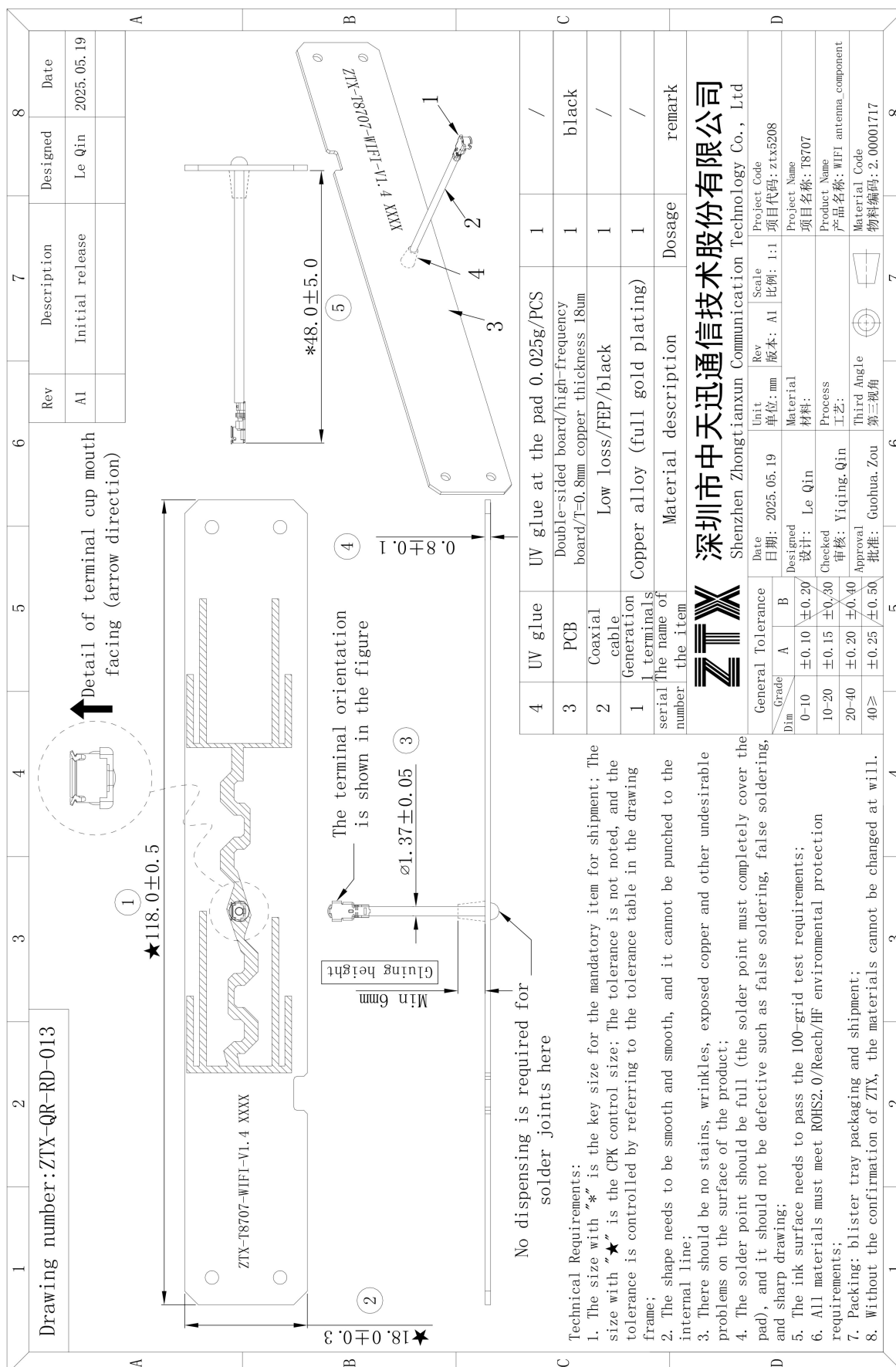
Rev: R:A0

Editor:

Page 3 of 10

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna assembly)



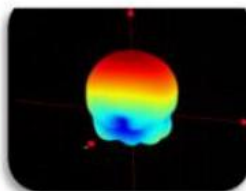
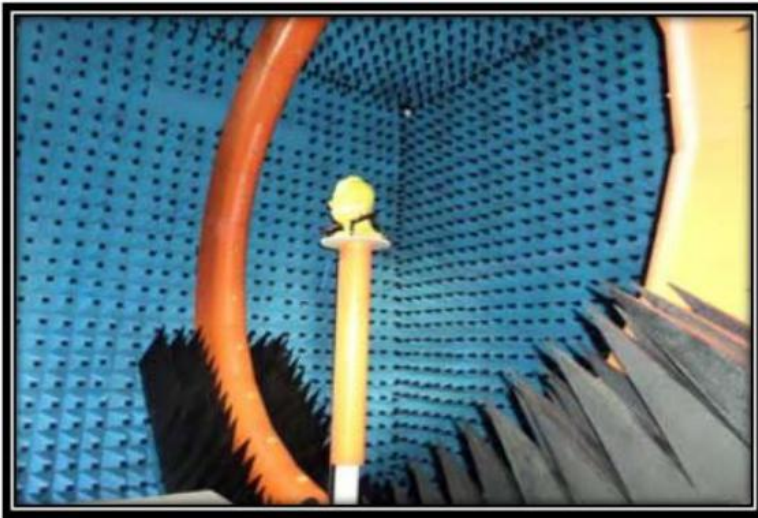
ANTENNA SPECIFICATION

CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 4 of 10

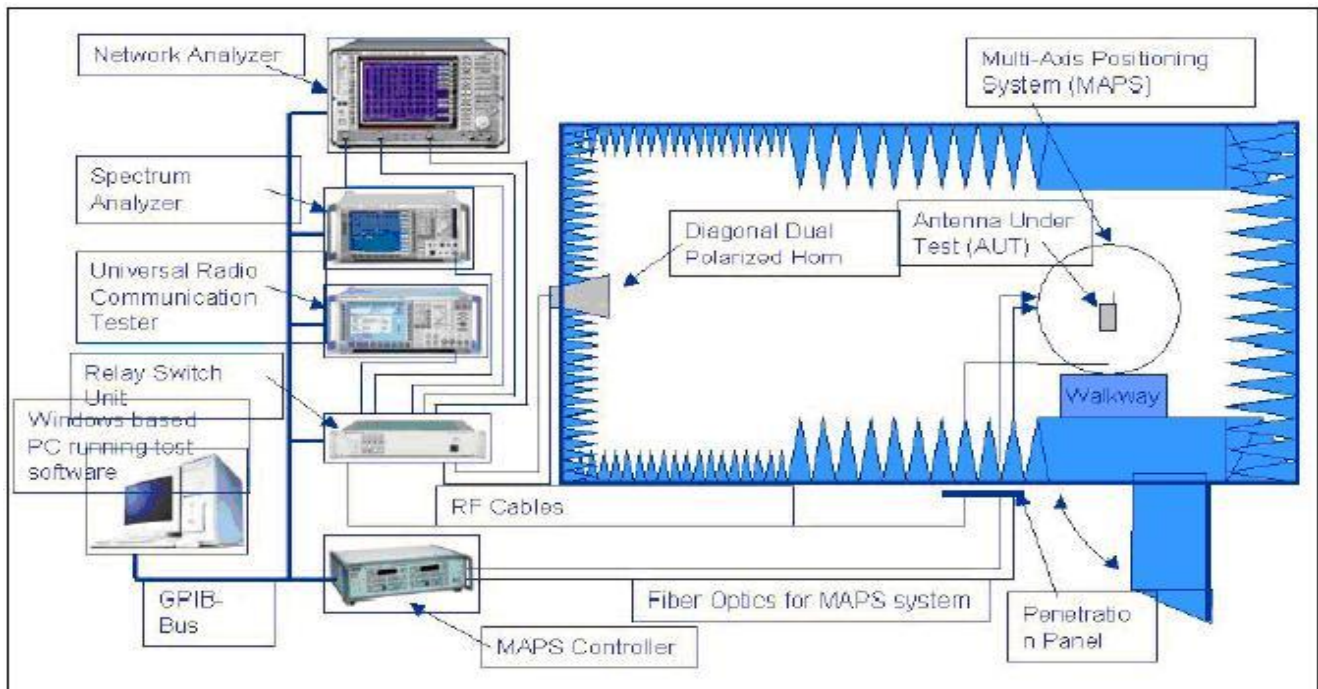
2. Test equipment



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:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

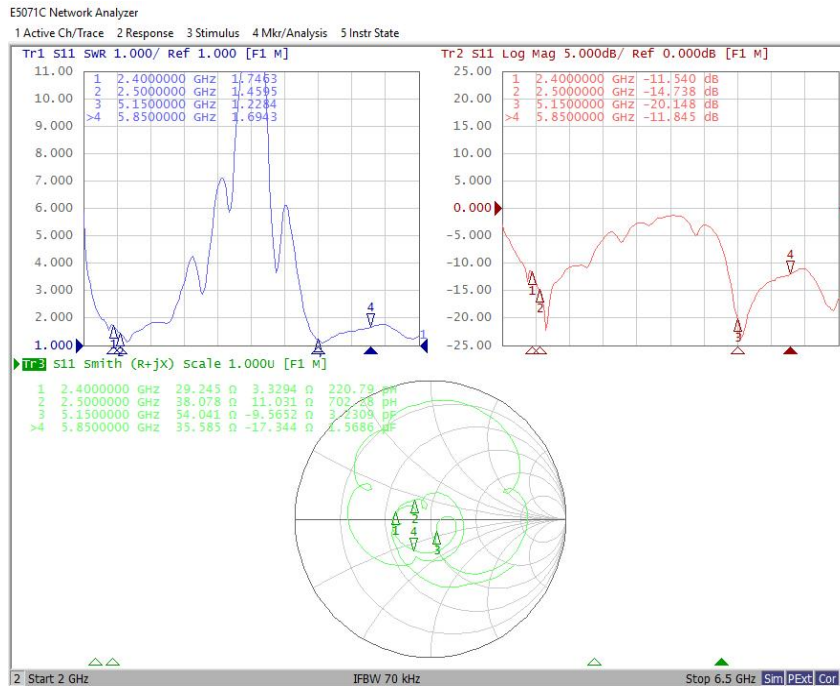
Application Date:May,07,2025
Editor:

Rev: R:A0
Page 5 of 10

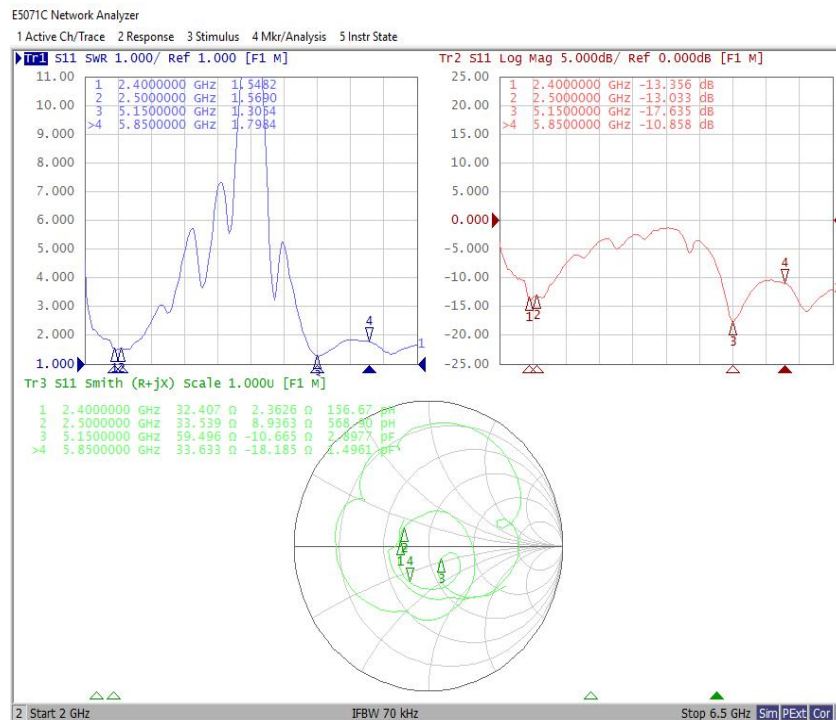
3.Test Results Summary

3-1 S11

WIFI1



WIFI2



ANTENNA SPECIFICATION

CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 6 of 10

3-2 No-source test data

WIFI1

Frequency (MHz)	Efficiency	Efficiency. dB	Gain . dBi	Frequency (MHz)	Efficiency	Efficiency. dB	Gain . dBi
2400	82%	-0.86	5.33	5150	76%	-1.18	6.90
2410	82%	-0.86	5.05	5200	77%	-1.12	7.27
2420	82%	-0.85	5.07	5250	78%	-1.08	7.73
2430	84%	-0.76	5.29	5300	80%	-0.99	7.71
2440	85%	-0.70	5.25	5350	74%	-1.29	7.72
2450	83%	-0.82	5.17	5400	78%	-1.07	8.07
2460	83%	-0.83	5.26	5450	77%	-1.11	8.13
2470	82%	-0.88	5.19	5500	78%	-1.06	8.33
2480	82%	-0.87	5.44	5550	76%	-1.17	8.28
2490	83%	-0.82	5.72	5600	74%	-1.29	8.23
2500	83%	-0.84	6.16	5650	77%	-1.15	8.31
				5700	73%	-1.37	8.03
				5750	74%	-1.32	8.10
				5800	75%	-1.22	8.00
				5850	79%	-1.03	8.07

WIFI2

Frequency (MHz)	Efficiency	Efficiency. dB	Gain . dBi	Frequency (MHz)	Efficiency	Efficiency. dB	Gain . dBi
2400	82%	-0.84	5.87	5150	76%	-1.20	7.01
2410	83%	-0.83	5.97	5200	77%	-1.16	7.45
2420	83%	-0.79	6.06	5250	78%	-1.09	7.76
2430	86%	-0.64	6.20	5300	79%	-1.04	8.09
2440	88%	-0.55	6.26	5350	73%	-1.35	8.04
2450	86%	-0.63	6.10	5400	76%	-1.18	8.19
2460	85%	-0.68	5.94	5450	76%	-1.21	8.21
2470	87%	-0.61	5.95	5500	76%	-1.19	8.19
2480	86%	-0.66	5.81	5550	75%	-1.24	8.25
2490	86%	-0.67	5.58	5600	74%	-1.30	8.01
2500	86%	-0.66	5.71	5650	76%	-1.19	8.24
				5700	73%	-1.35	8.14
				5750	73%	-1.37	8.17
				5800	74%	-1.28	8.06
				5850	75%	-1.26	8.02

ANTENNA SPECIFICATION

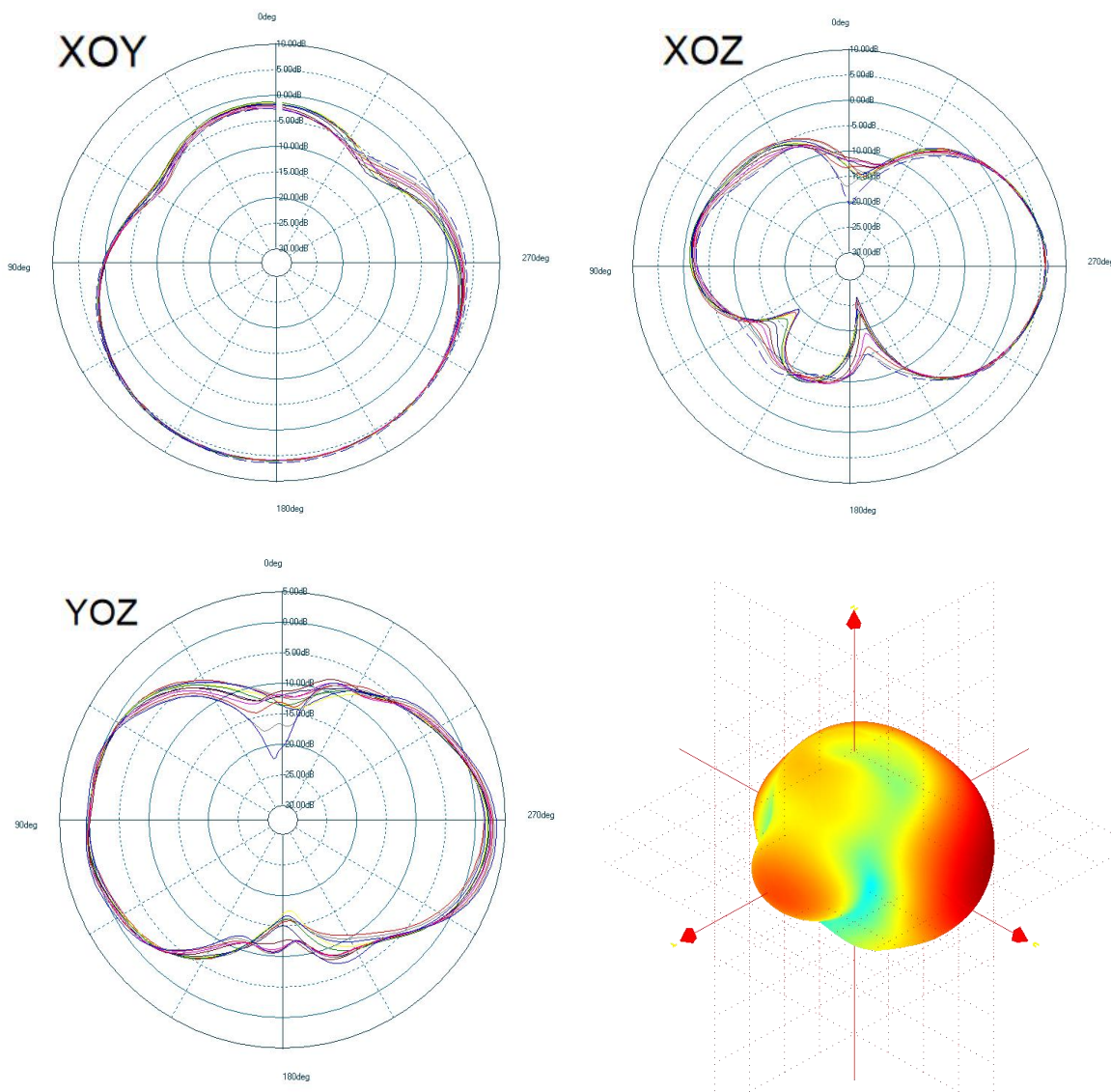
CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 7 of 10

3-3 2D/3D Radiation Pattern Results

WIFI1:2.4G direction diagram



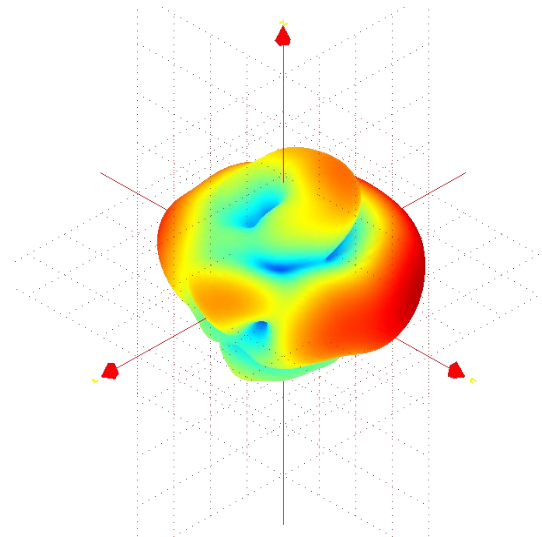
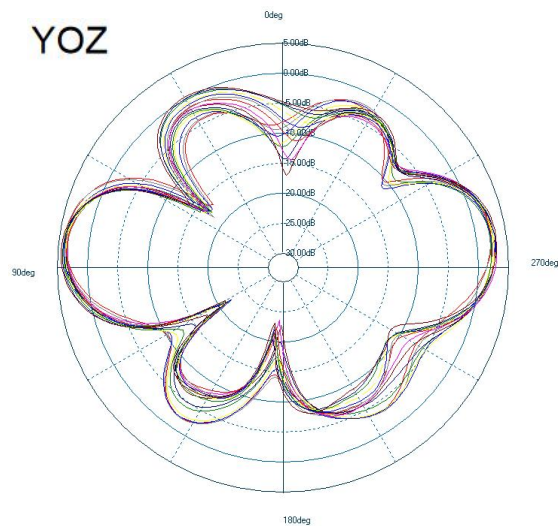
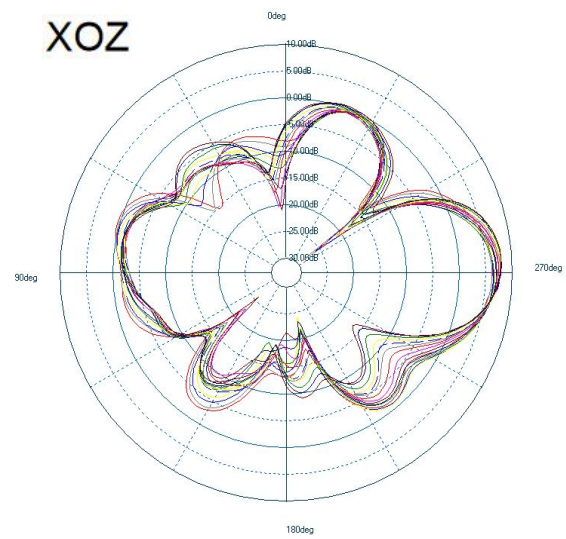
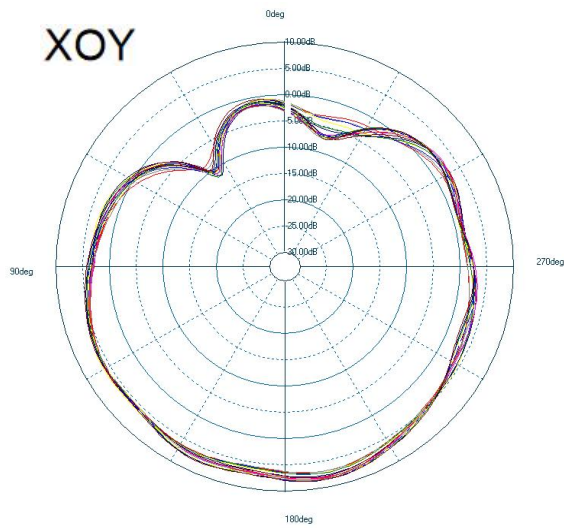
ANTENNA SPECIFICATION

CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 8 of 10

WIFI11:5G direction diagram



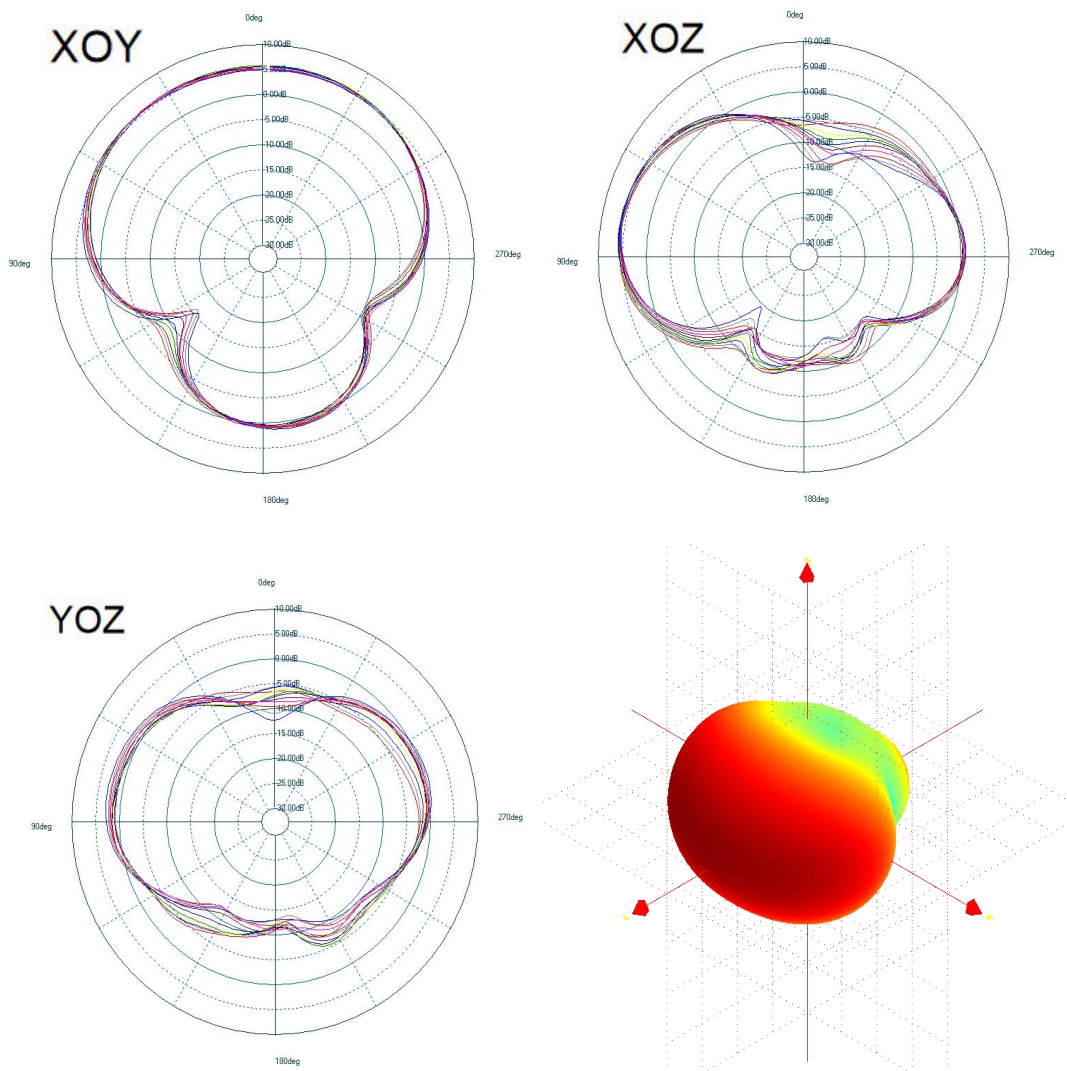
ANTENNA SPECIFICATION

CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 9 of 10

WIFI2:2.4Gdirection diagram



ANTENNA SPECIFICATION

CUS P/N:T8707_WIFI antenna assembly
ZTX P/N :T8707_WIFI antenna assembly

Application Date:May,07,2025
Editor:

Rev: R:A0
Page 10 of 10

WIFI2: 5G direction diagram

