

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

project: M46792TML

Band:

G2/3/5/8+W1/2/4/5/8+

FDD-B1/2/3/4/5/7/12/13/17/28//66/38

Design Engineer: Fu (137 6016 7811)

date: 2026-7-7

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1. Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss(RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4/5G)	1. power 2. level 3.TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

2.Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment



Agilent 8960 (2G/3G Test Equipment)

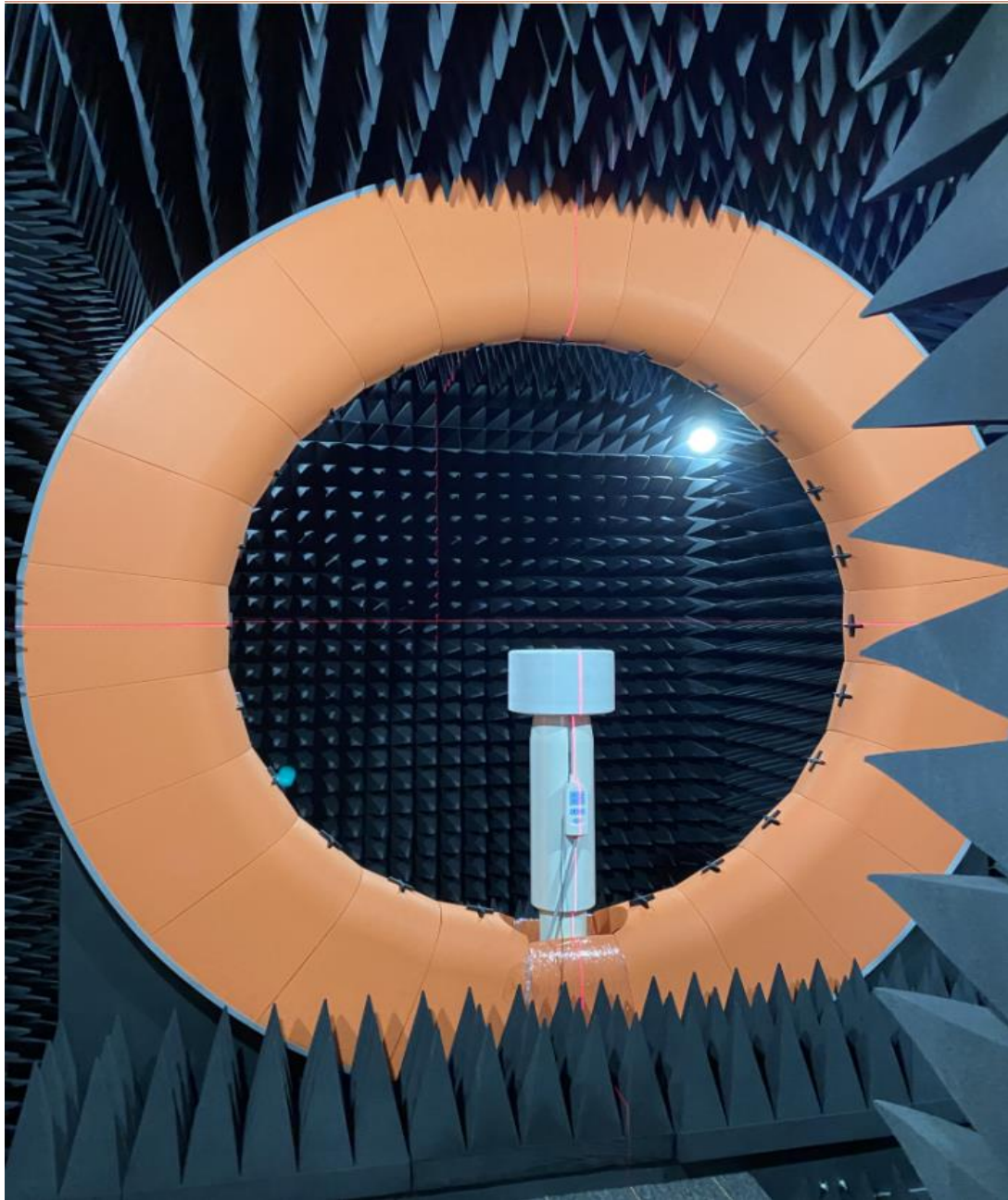


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

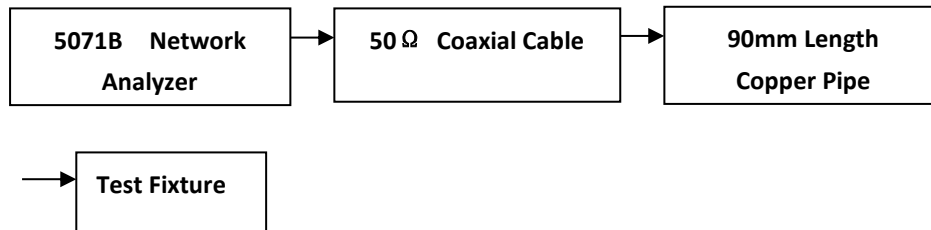
3. TestEnvironment



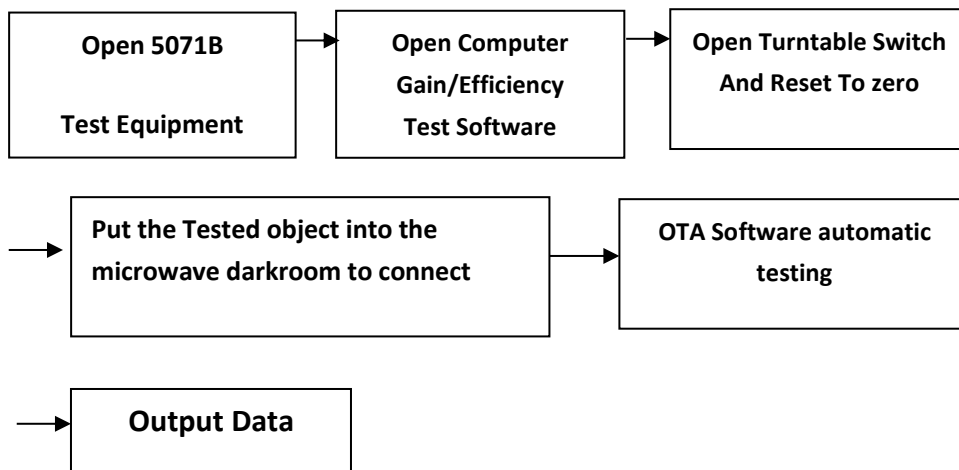
Microwave Anechoic Chamber

4.Test Steps

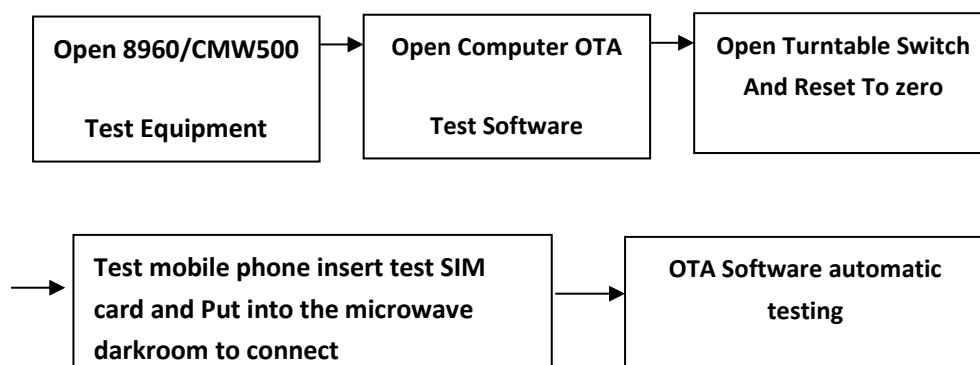
Passive VSWR/RL Test Steps:



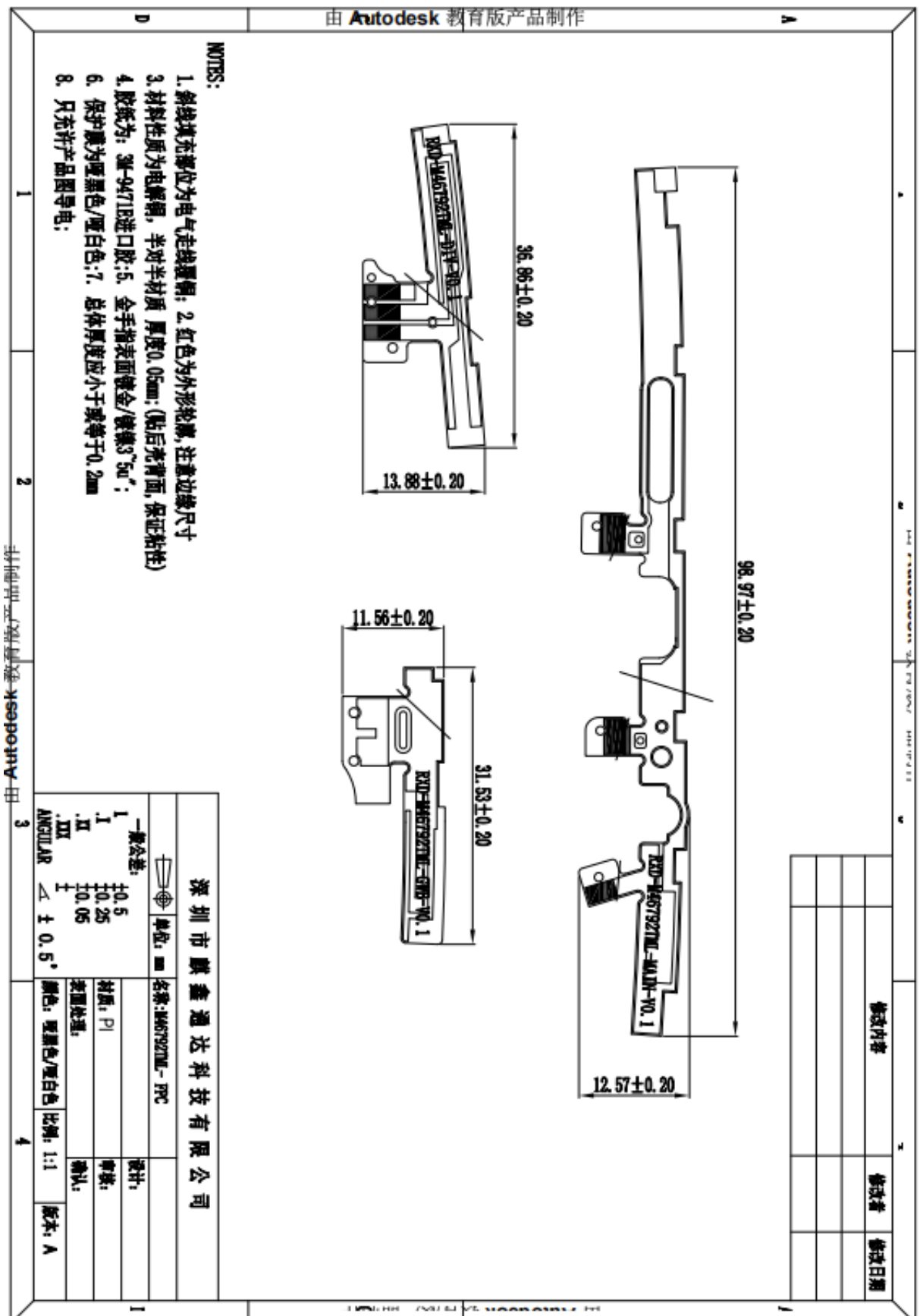
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions



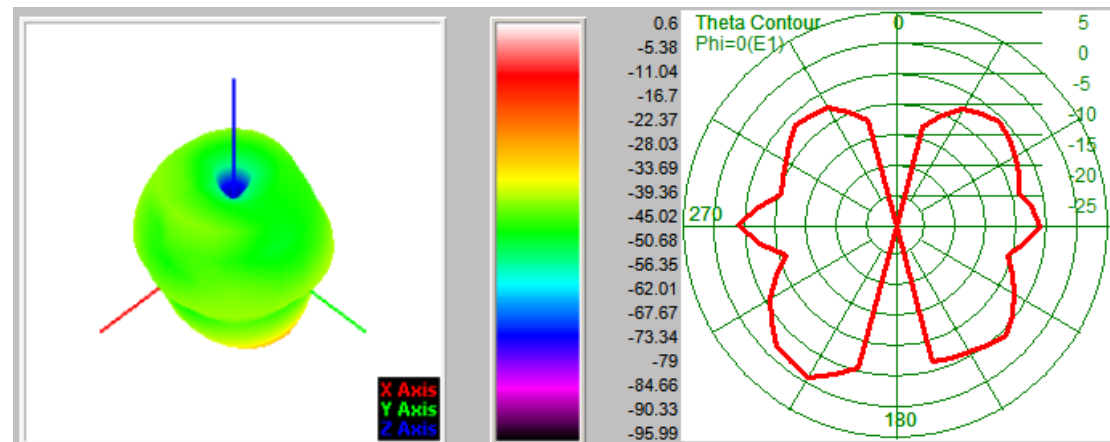
6. Antenna Gain(dBi)

Band	Max Gain
GSM850(824-894MHz)	-0.28
GSM900(880-960MHz)	-0.25
DCS1800(1710-1880MHz)	0.8
PCS1900(1850-1990MHz)	0.9
WCDMA1(1920-2170MHz)	0.9
WCDMA2(1850-1990MHz)	0.9
WCDMA4(1712-2153MHz)	0.8
WCDMA5(826-892MHz)	-0.28
WCDMA8(882-958MHz)	-0.25
LTE-B1(1920-2170)	0.9
LTE-B2(1850-1990)	0.9
LTE-B3(1710-1880)	0.8
LTE-B4(1710-2155)	0.8
LTE-B5(824-894)	-0.28
LTE-B7(2500-2690)	1.1
LTE-B12(699-746)	-3.6
LTE-B13(746-787)	-3.3
LTE-B17(704-746)	-3.6
LTE-B28(703-803)	-3.6
LTE-B66(1710-2200)	0.8
LTE-B38(2570-2620)	1.1

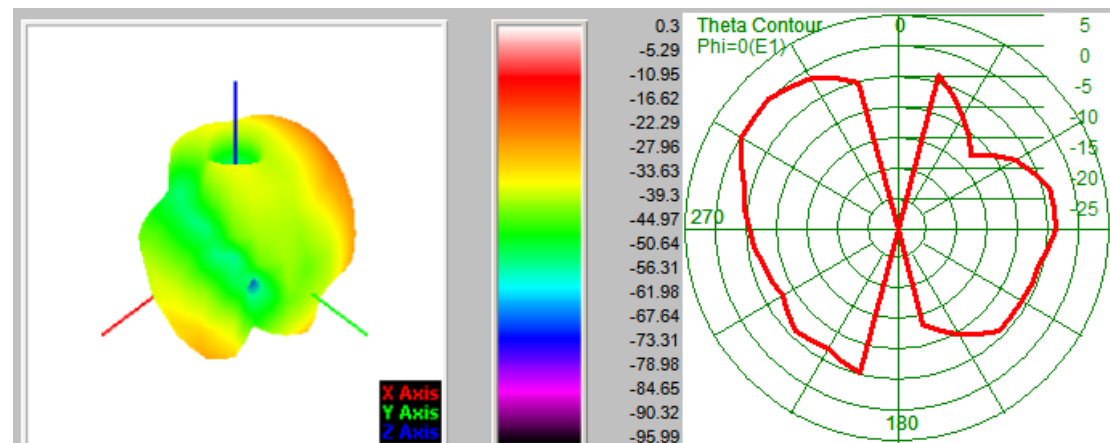
L1/BT/WIFI2.4G/WIFI5.2-5.8G	
Band	Max Gain
Bluetooth(2402-2480)	0.6
WIFI-2.4(2412-2484)	0.6
WIFI-5.1(5150-5350)	0.3
WIFI-5.8(5725-5850)	0.3
GPS-L1(1575.42)	0.7

7.3D&2D Lobe Diagram

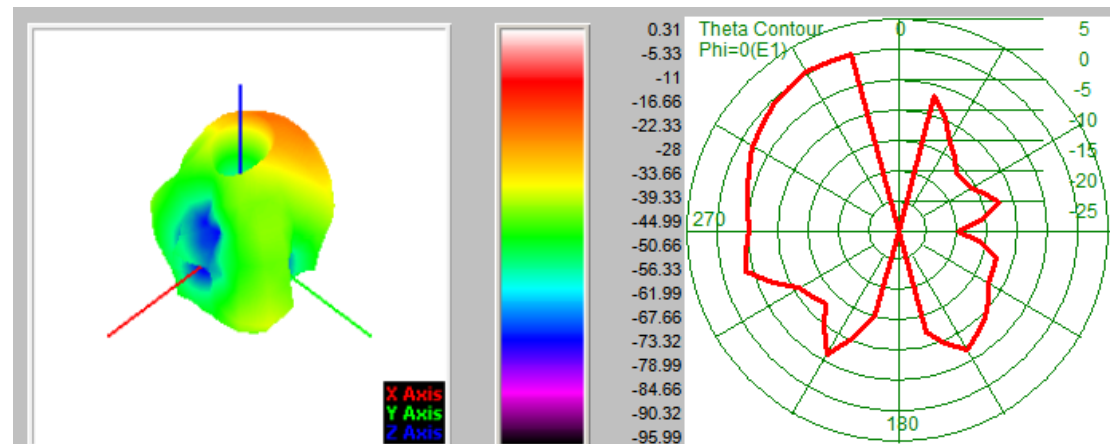
2.4GWIFI



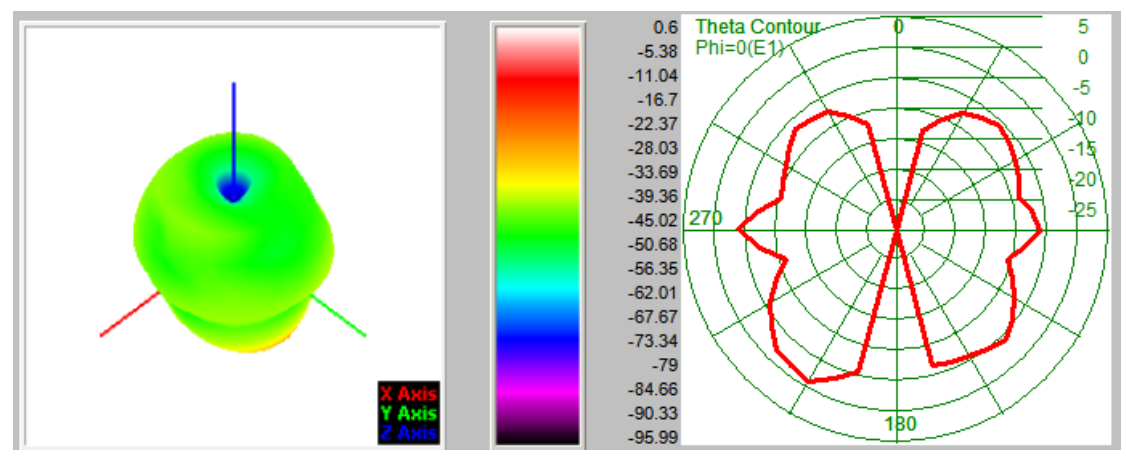
5.1GWIFI



5.8GWIFI



BT



8.Introduction to Antenna Information

M46792TML	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G GPS/WIFI/BT ANTENNA(<u>PIFA</u>): L1/WIFI(2.4G/5G)/BT
Antenna materia	FPC