

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna test data report

Client: Xinmiao

project: G1809

GSM:850/1900

Engineering: Jason (137 6025 5827)

date: 2025-04-07

Factory address: Bao'an District, Shenzhen, Shajing Street, Shayi North

Yongfa Science and Technology Park, the first third floor

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)

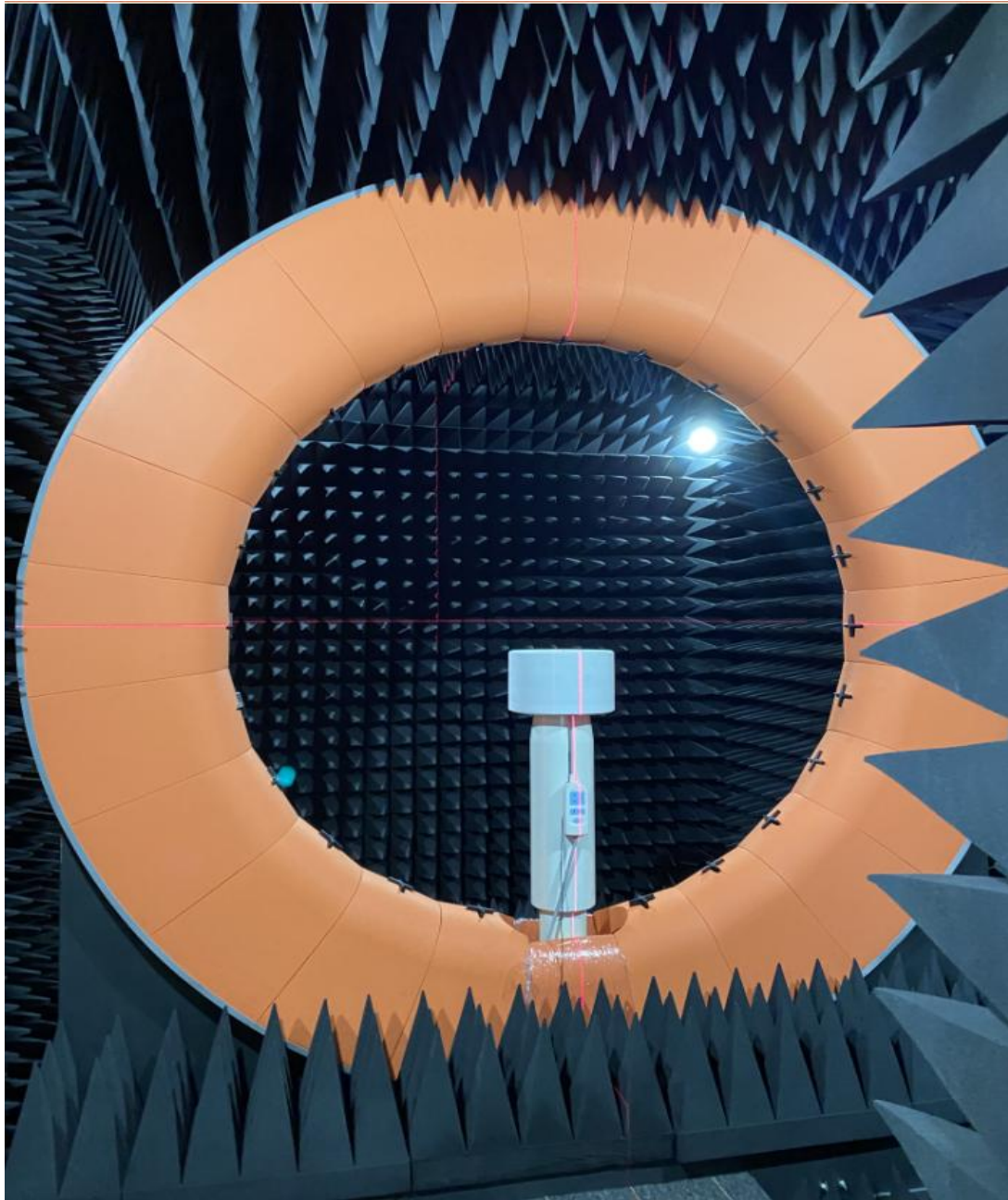


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

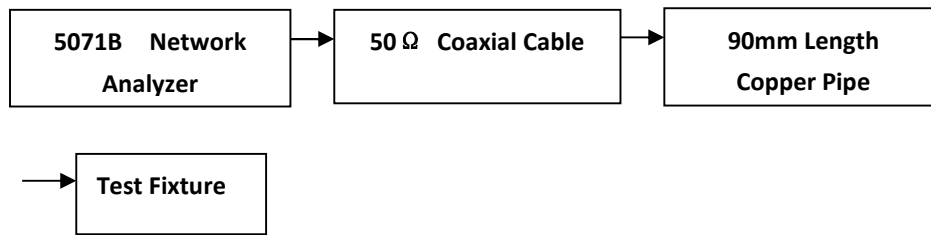
3. TestEnvironment



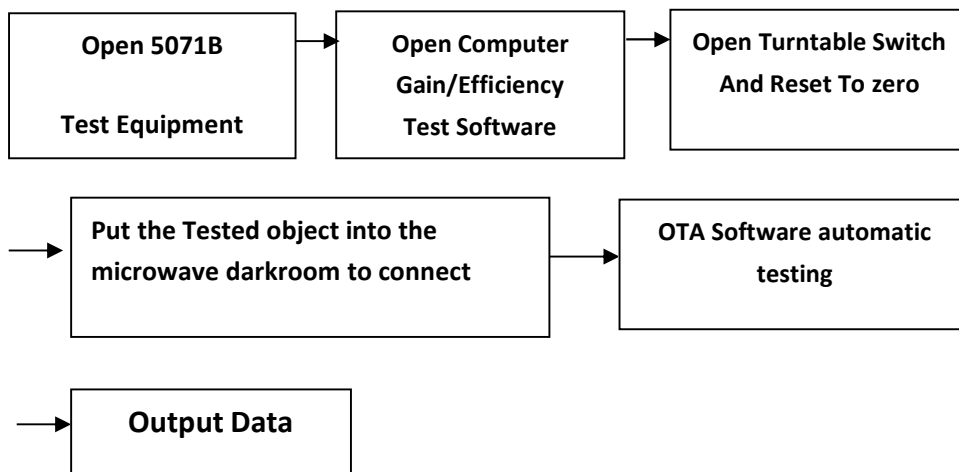
Microwave Anechoic Chamber

4.Test Steps

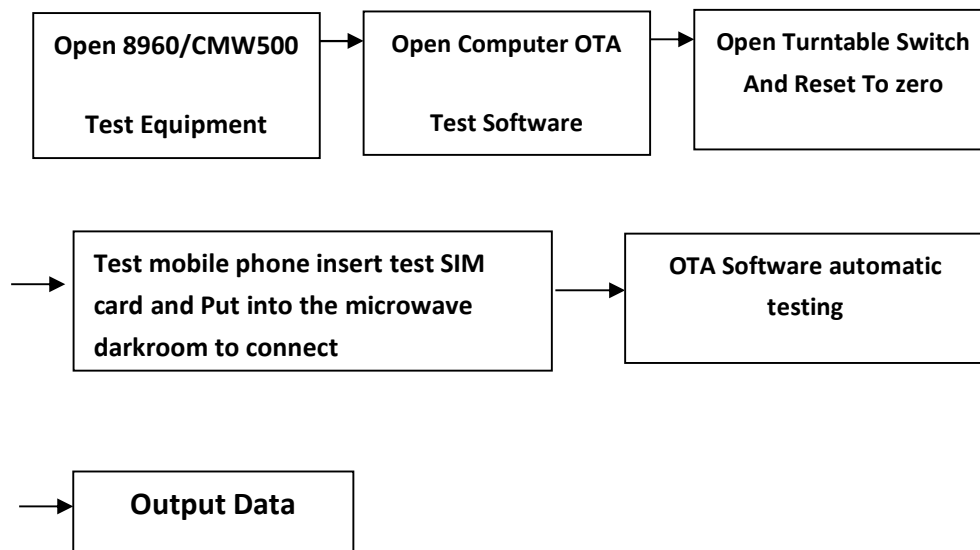
Passive VSWR/RL Test Steps:



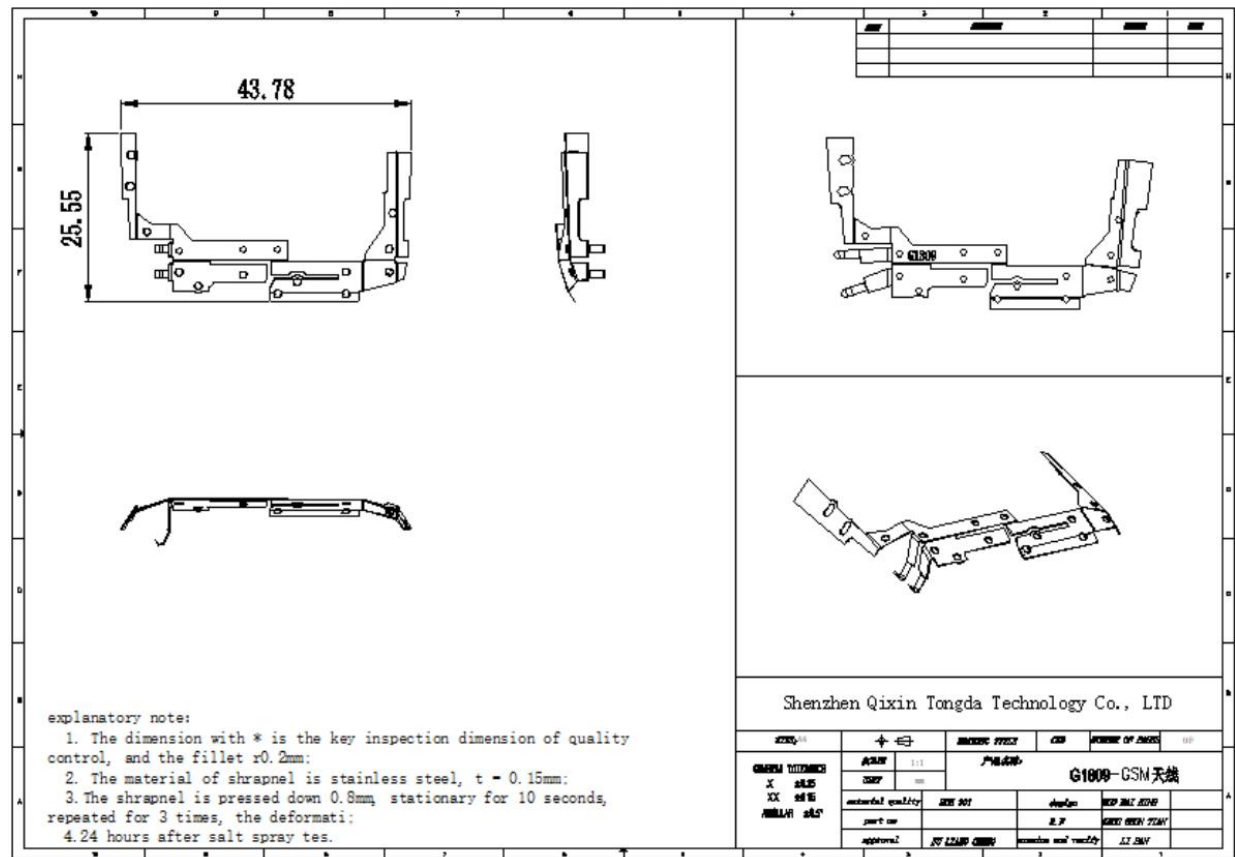
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna size diagram



6. Antenna Gain

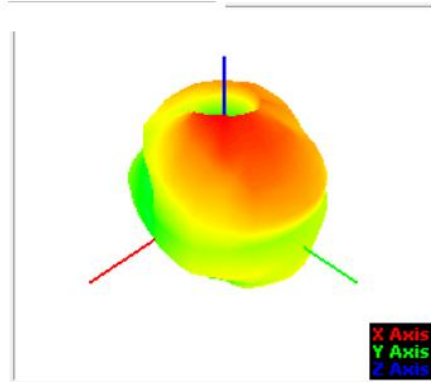
Band	Max Gain
GSM850 (824-894MHZ)	-2.80
PCS1900 (1850-1990MHZ)	-0.33
Bluetooth (2400-2483.5MHZ)	0.15

7.2D&3D Lobe Diagram

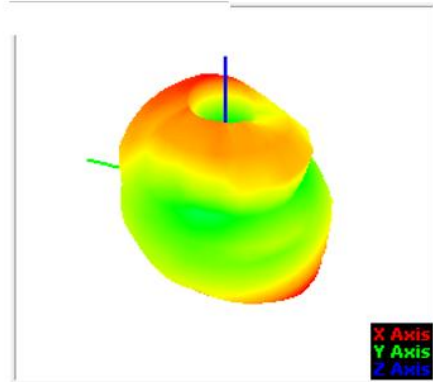
GSM850



-2.85
-8.37
-13.84
-19.32
-24.8
-30.27
-35.75
-41.22
-46.7
-52.18
-57.65
-63.13
-68.61
-74.08
-79.56
-85.04
-90.51
-95.99



X Axis
Y Axis
Z Axis

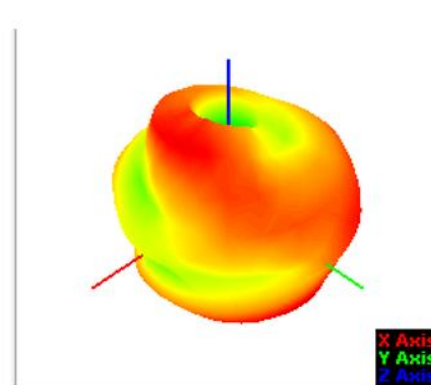


X Axis
Y Axis
Z Axis

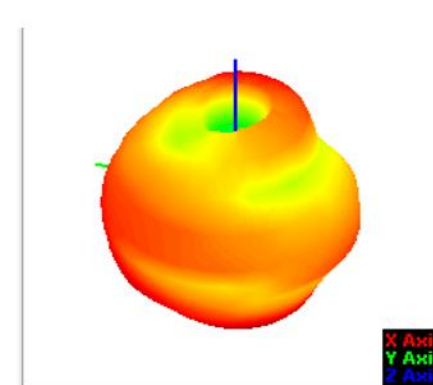
PCS1900



-0.3
-5.82
-11.46
-17.09
-22.73
-28.36
-34
-39.63
-45.27
-50.91
-56.54
-62.18
-67.81
-73.45
-79.08
-84.72
-90.35
-95.99



X Axis
Y Axis
Z Axis

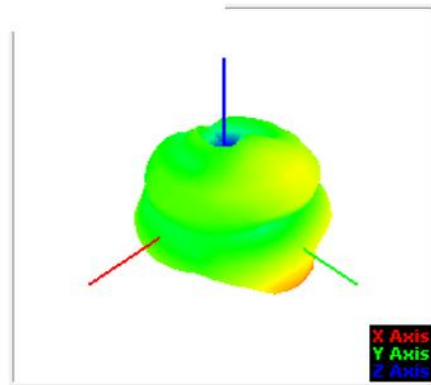


X Axis
Y Axis
Z Axis

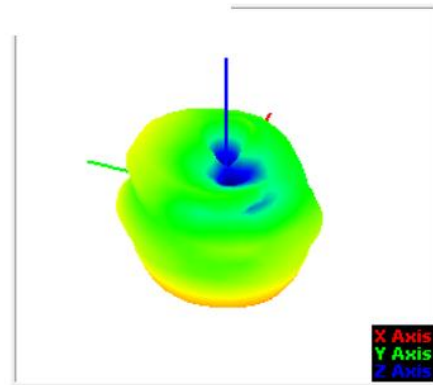
BT-2.4G



0.63
-5.12
-10.79
-16.47
-22.15
-27.83
-33.51
-39.19
-44.87
-50.55
-56.23
-61.91
-67.59
-73.27
-78.95
-84.63
-90.31
-95.99



X Axis
Y Axis
Z Axis



X Axis
Y Axis
Z Axis

8.Introduction to Antenna Information

G1809-2G	
Antenna type and frequency band	MAIN ANTENNA(PIFA):GSM850/1900
Antenna materia	FPC

9.VSWR

