

Antena Test Report



专业的4G/3G/GPS/WIFI等天线方案设计及供应商

客户名称： 芯图

Customer name

项目名称： Q2707

Project name

频段： WIFI2.4G/5.8G/BT

Frequency band

版本： A

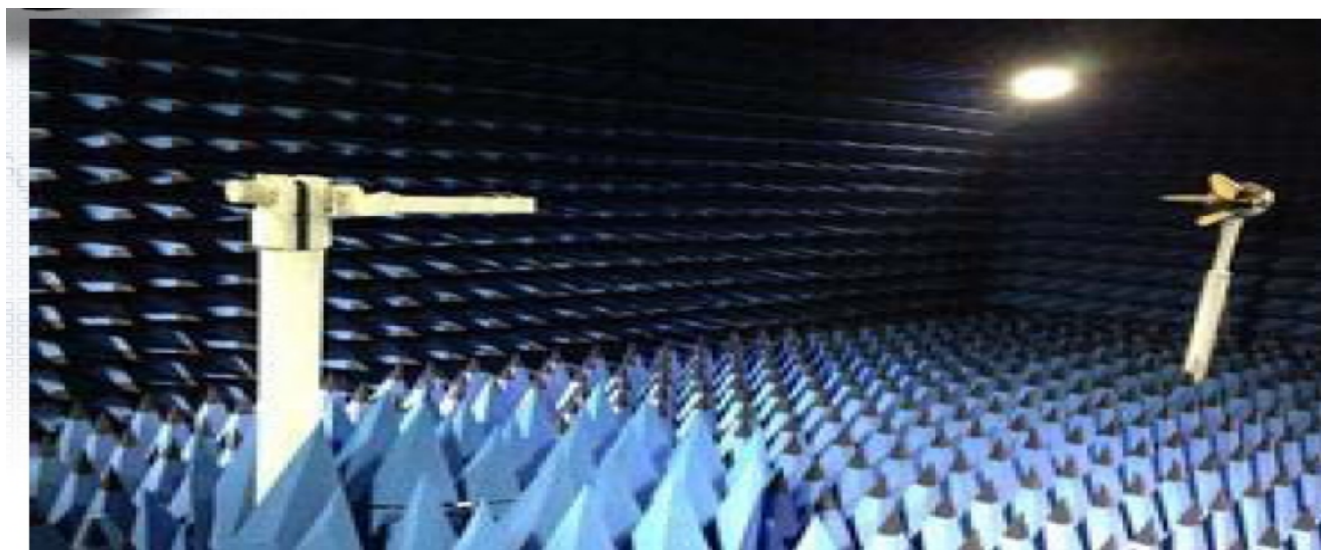
edition

制作日期： 2024-4-22

Date of manufacture

Test system

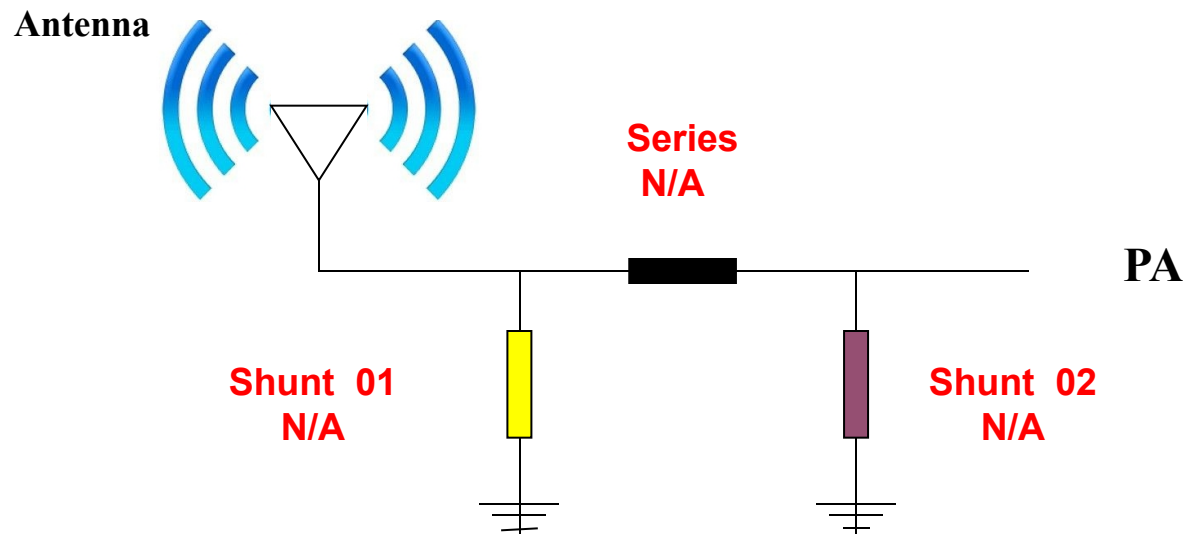
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



主板电路无修改

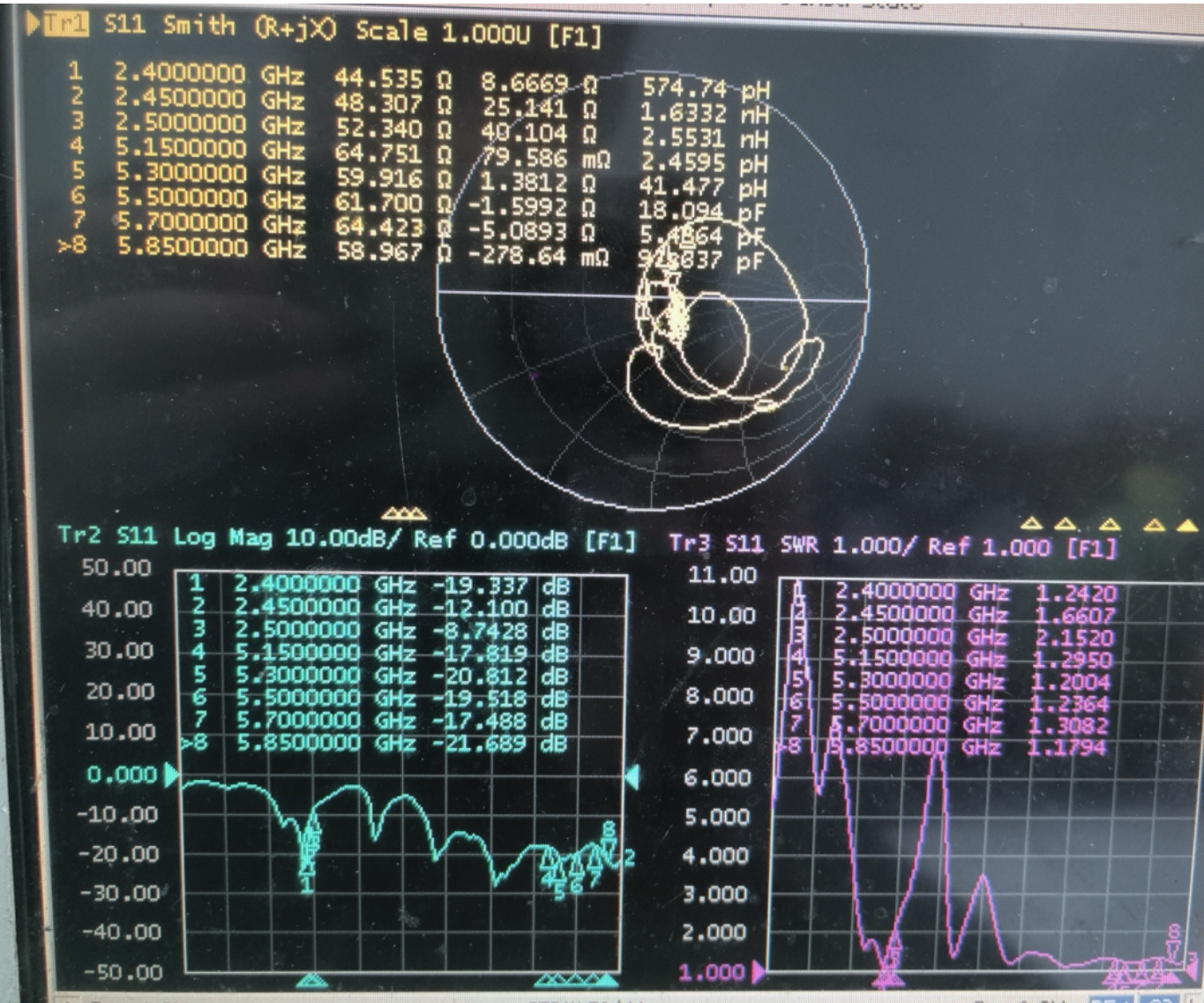
The main board circuit is not modified

Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

S11 SWR /Smith/ Log Mag



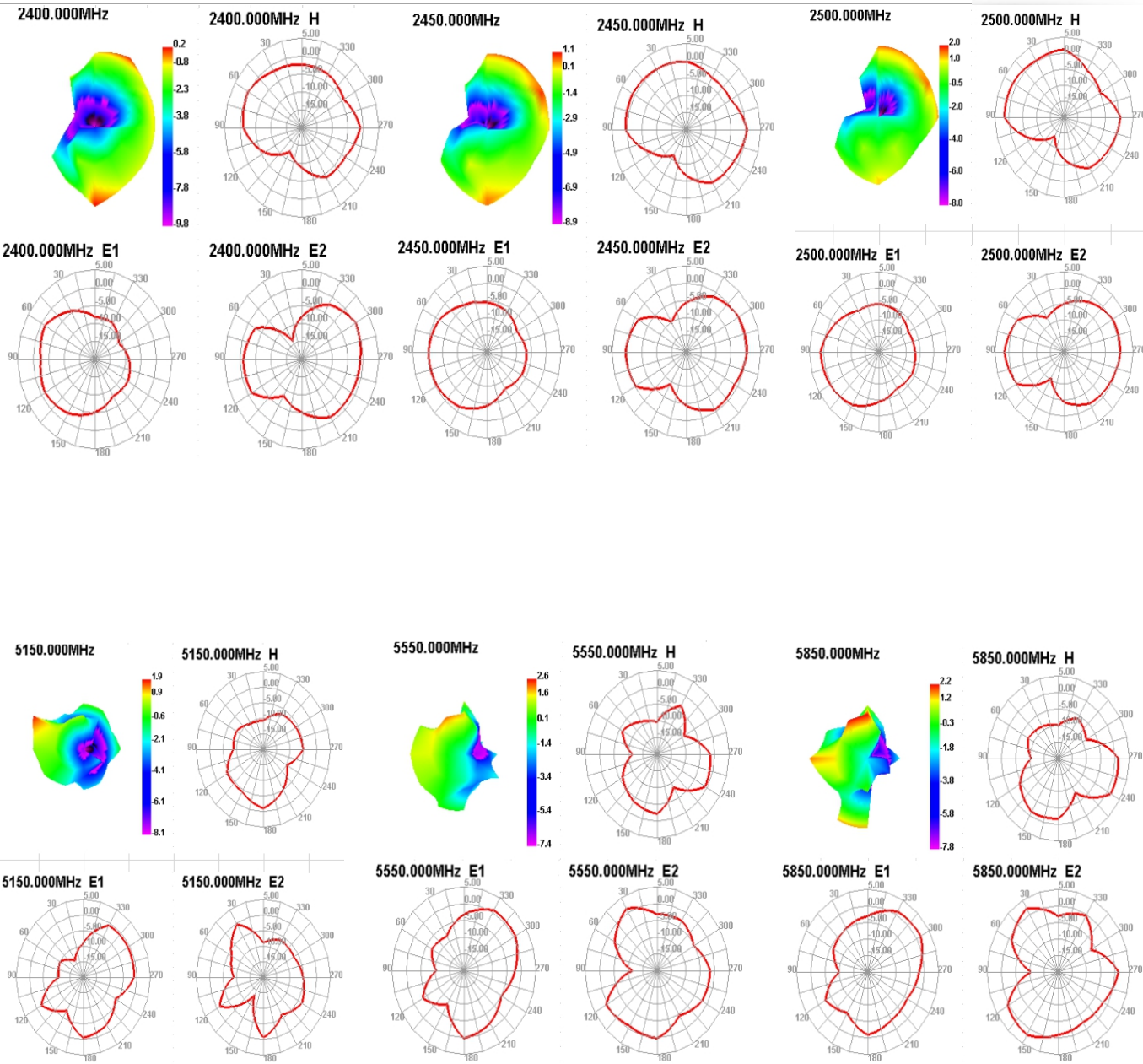
频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
驻波比	1.24	1.66	1.15	1.29	1.2	1.23	1.38	1.17

频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
阻抗	44.5 Ω	48.3 Ω	52.3 Ω	64.7 Ω	59.9 Ω	61.7 Ω	64.4 Ω	58.9 Ω

频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
回损	-19.3	-12.1	-8.7	-17.8	-20.8	-19.5	-17.4	-21.6

效率&增益Efficiency & Gain

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	43.92	1.65
2450	44.94	1.52
2500	43.32	1.48
5150	41.41	1.91
5350	42.8	2.64
5550	45.43	2.58
5750	46.92	2.09
5850	45.7	2.17



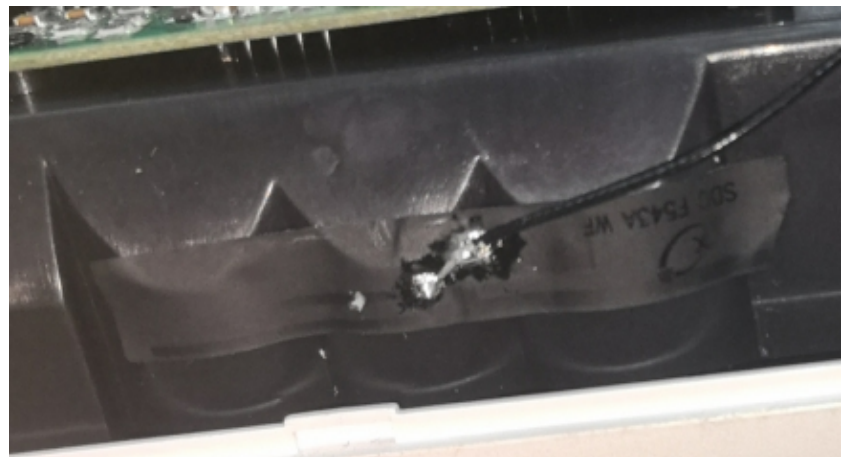
WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	13.75	13.82	14.59
TIS	-81.98	-80.62	-78.53

5.8G	802.11A, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	13.38	11.82	13.04
TIS	-72.09	-72.13	-72.14

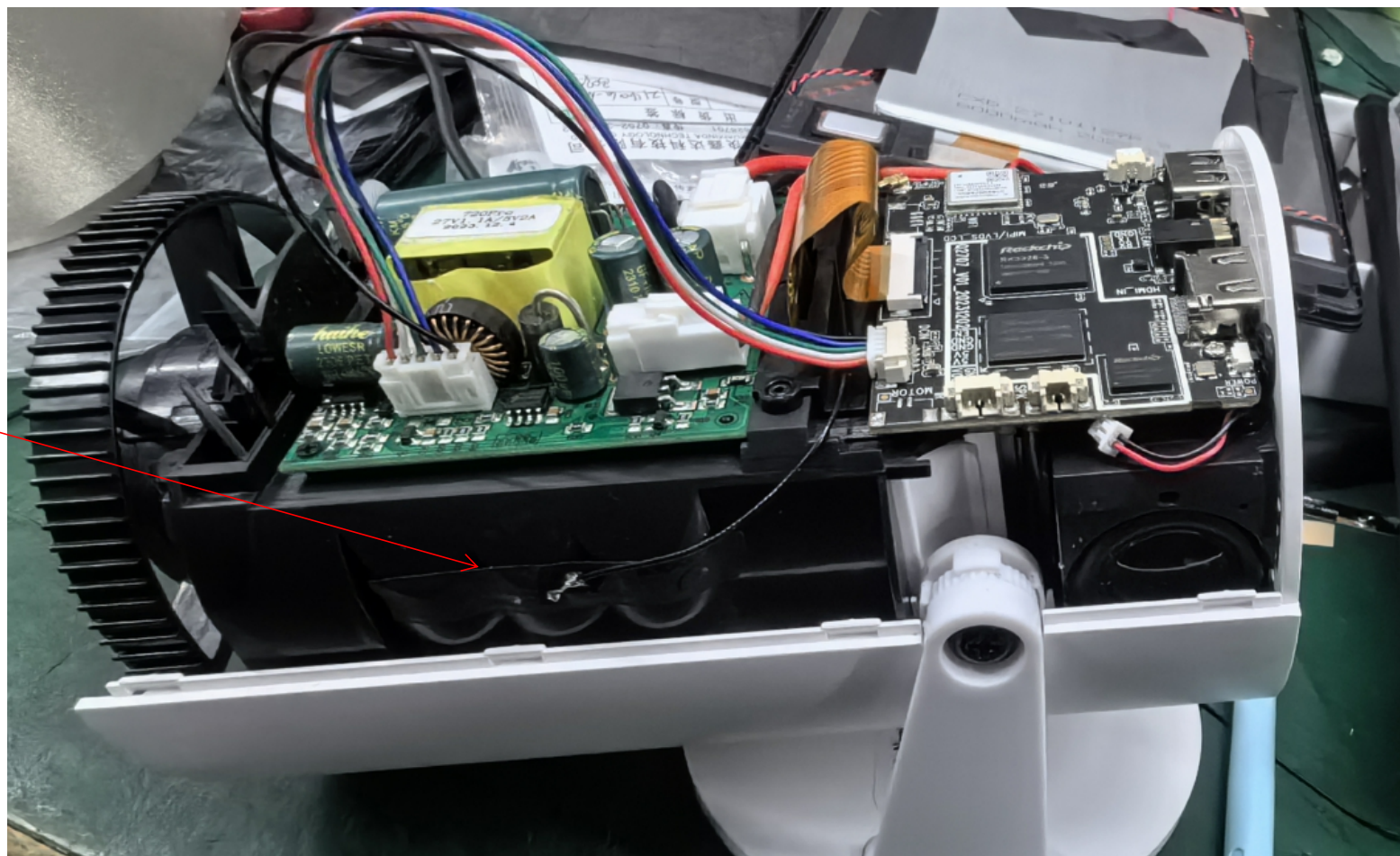
天线位置图

Antenna location diagram



WiFi天线

WiFi antenna



Thanks