

Antena Test Report



专业的4G/3G/GPS/WIFI等天线方案设计及供应商

Customer Name: Rigal

Project Name: 501without casing

Frequency band: WIFI2.4G/5.8G/BT

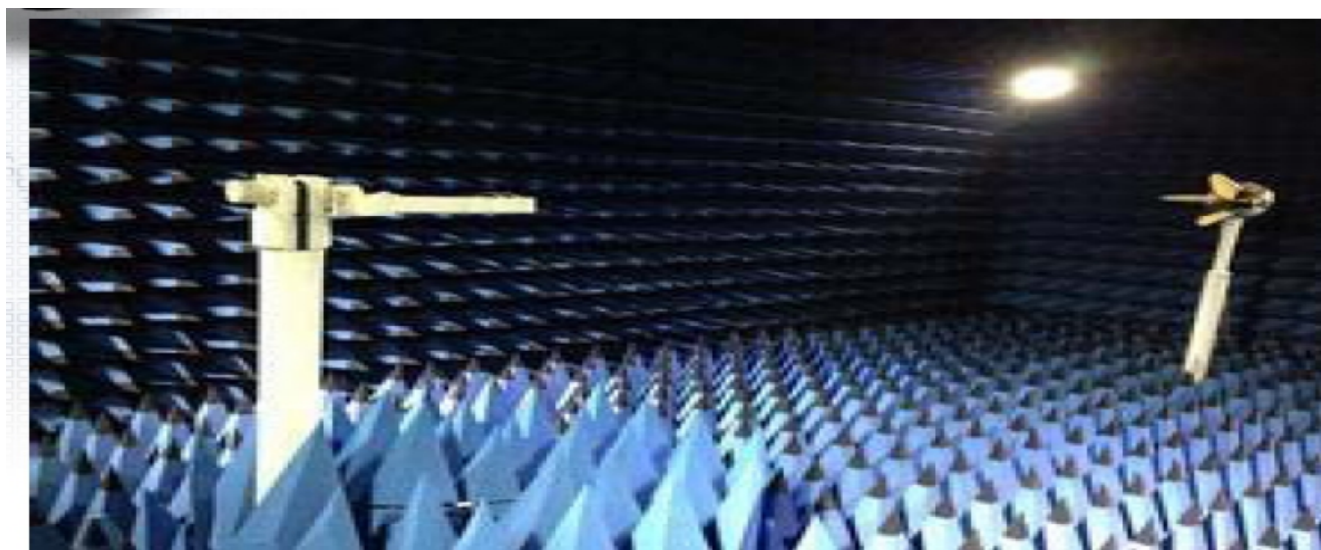
supplier: Shenzhen Ruifeng Electronic Technology Co., Ltd

Version: A

Production date: 2023.11.18

Test system

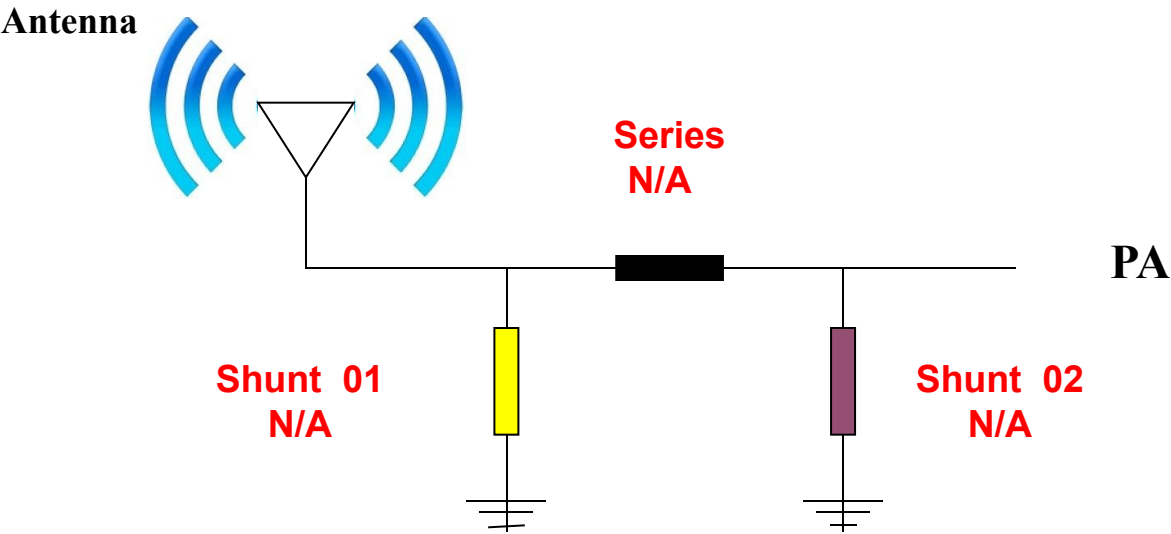
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C & Agilent 4438C & CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



No modifications to the motherboard circuit



Antenna Matching Network



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

Gain & Efficiency-WiFi

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	45.25	1.58
2450	45.74	1.56
2500	44.31	1.51
5150	44.69	1.52
5720	45.35	1.59
5850	43.27	1.41

Gain & Efficiency-BT

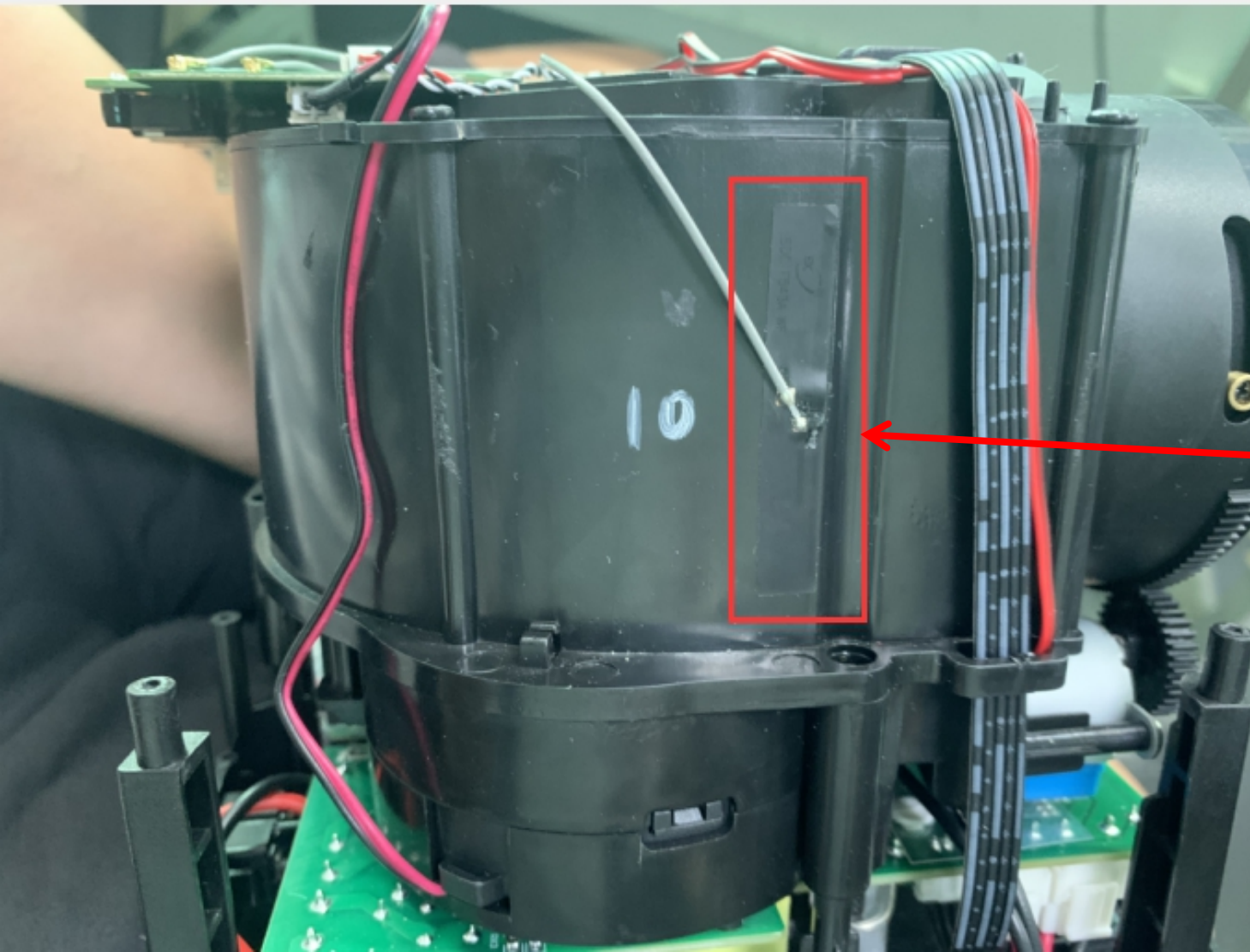
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	43.74	1.49
2450	43.25	1.46
2500	42.34	1.35
5150	41.61	1.38
5720	42.37	1.43
5850	43.52	1.49

WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH7	CH12
TRP	12.09	12.37	12.13
TIS	-78.69	-77.51	-77.32

5.8G	802.11A, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	10.77	10.53	8.72
TIS	-69.41	-69.33	-68.39

Antenna position installation diagram

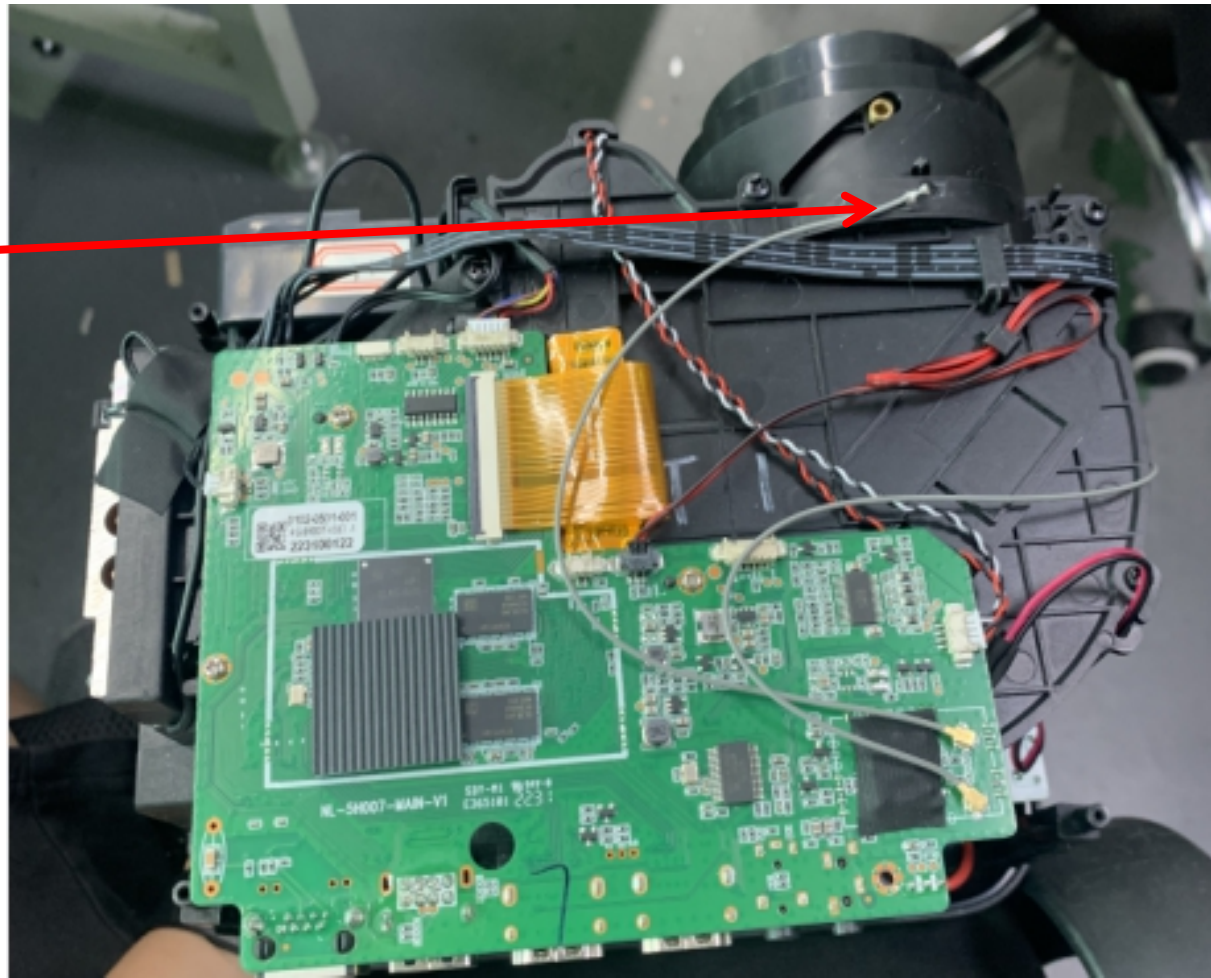


WiFi

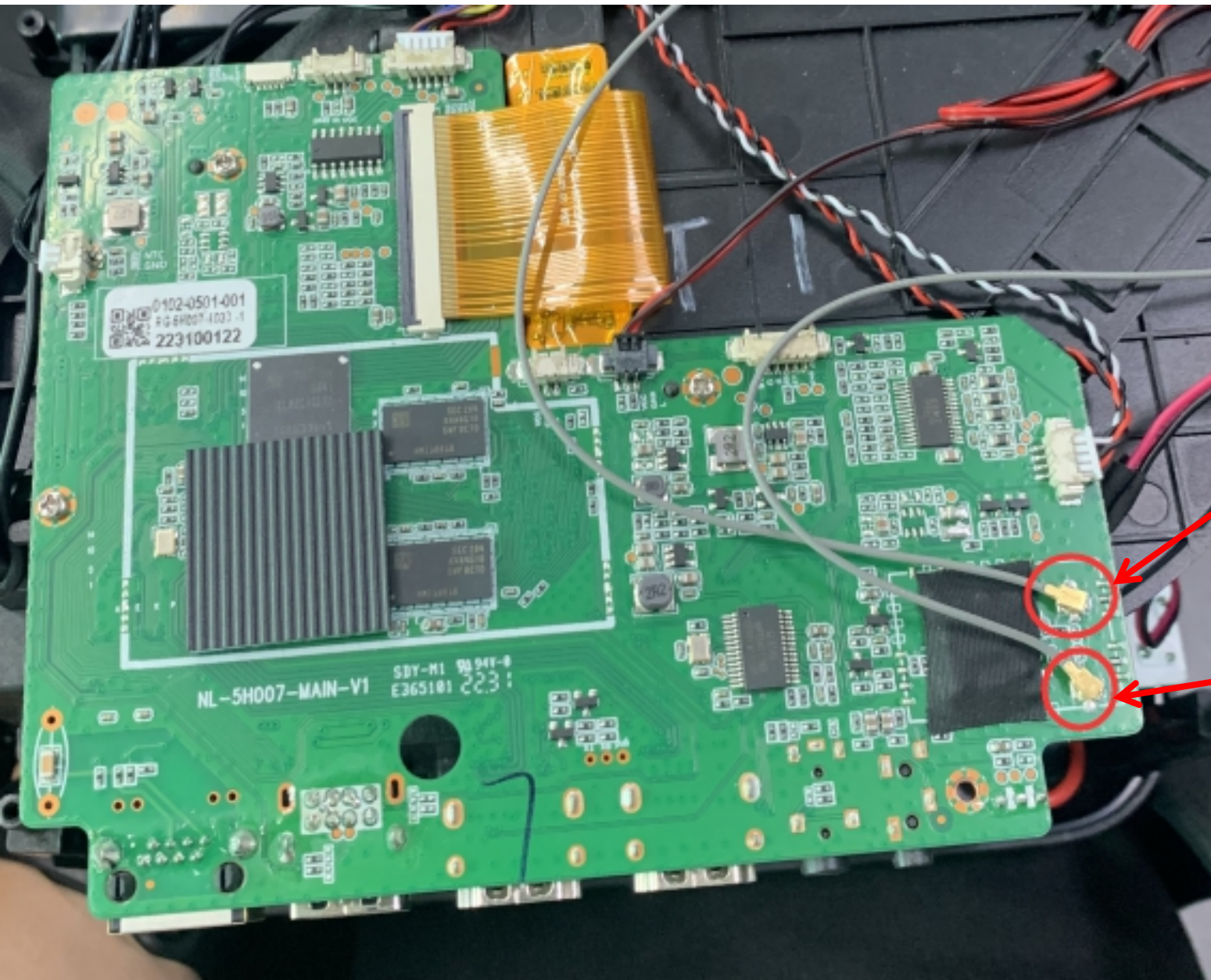
Antenna position installation diagram



BT



Installation diagram of plate end seat



BT

WiFi

Thanks