

Antena Test Report



专业的4G/3G/GPS/WIFI等天线方案设计及供应商

Customer Name: 维海德

Project name: MFC-L001

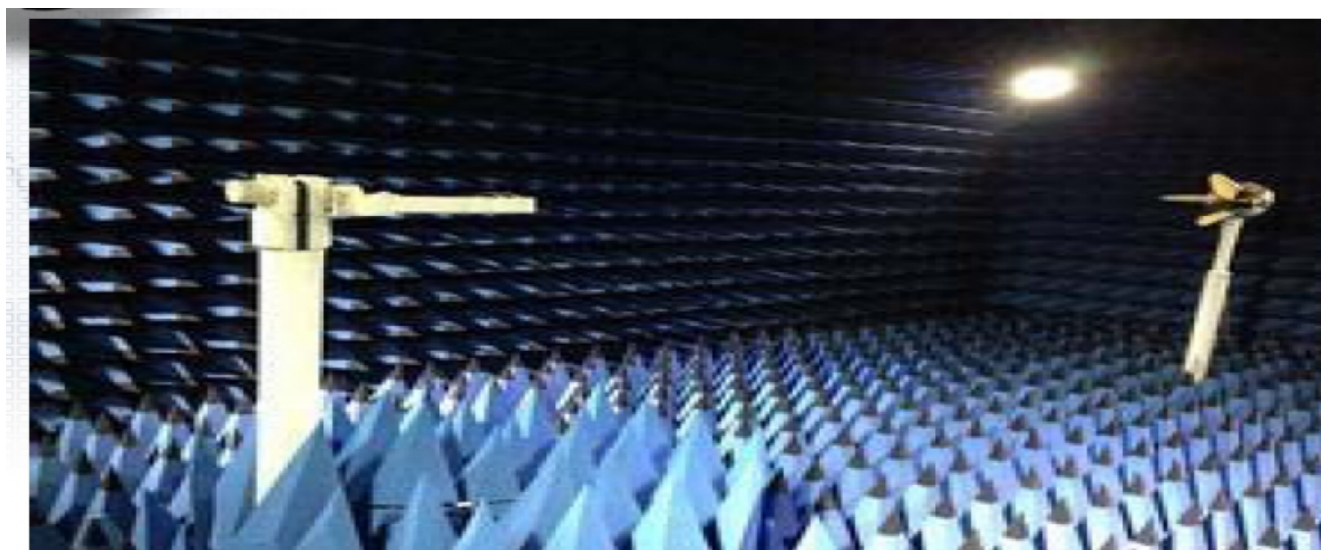
Frequency band: WIFI2.4G/5.8G/BT

Version: A

Date: 2024-9-26

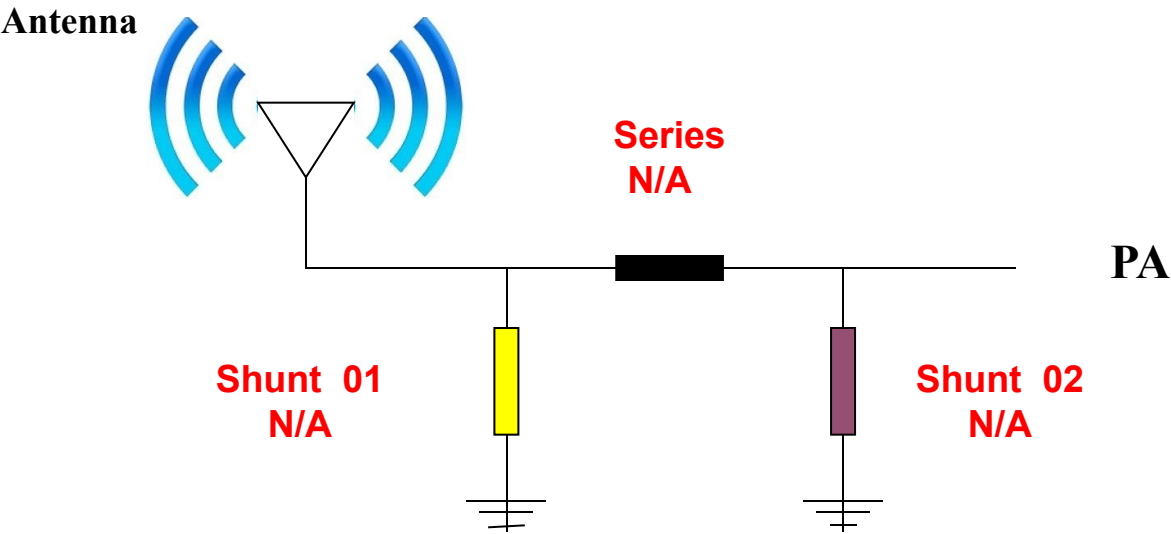
Test system

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



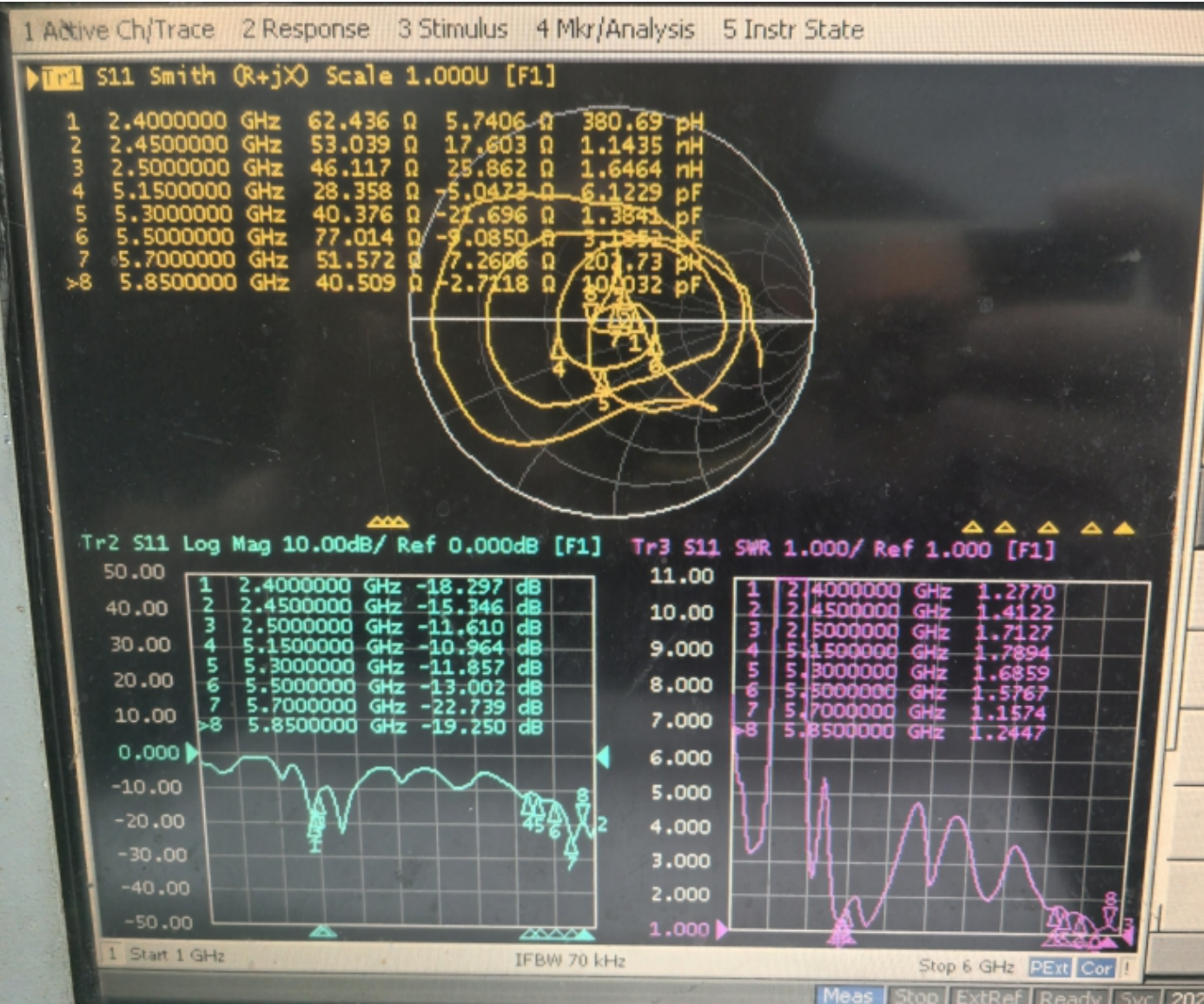
主板电路无修改

Antenna Matching Network



Location	Description
Shunt 01	
Series	
Shunt 02	

S11 SWR /Smith/ Log Mag



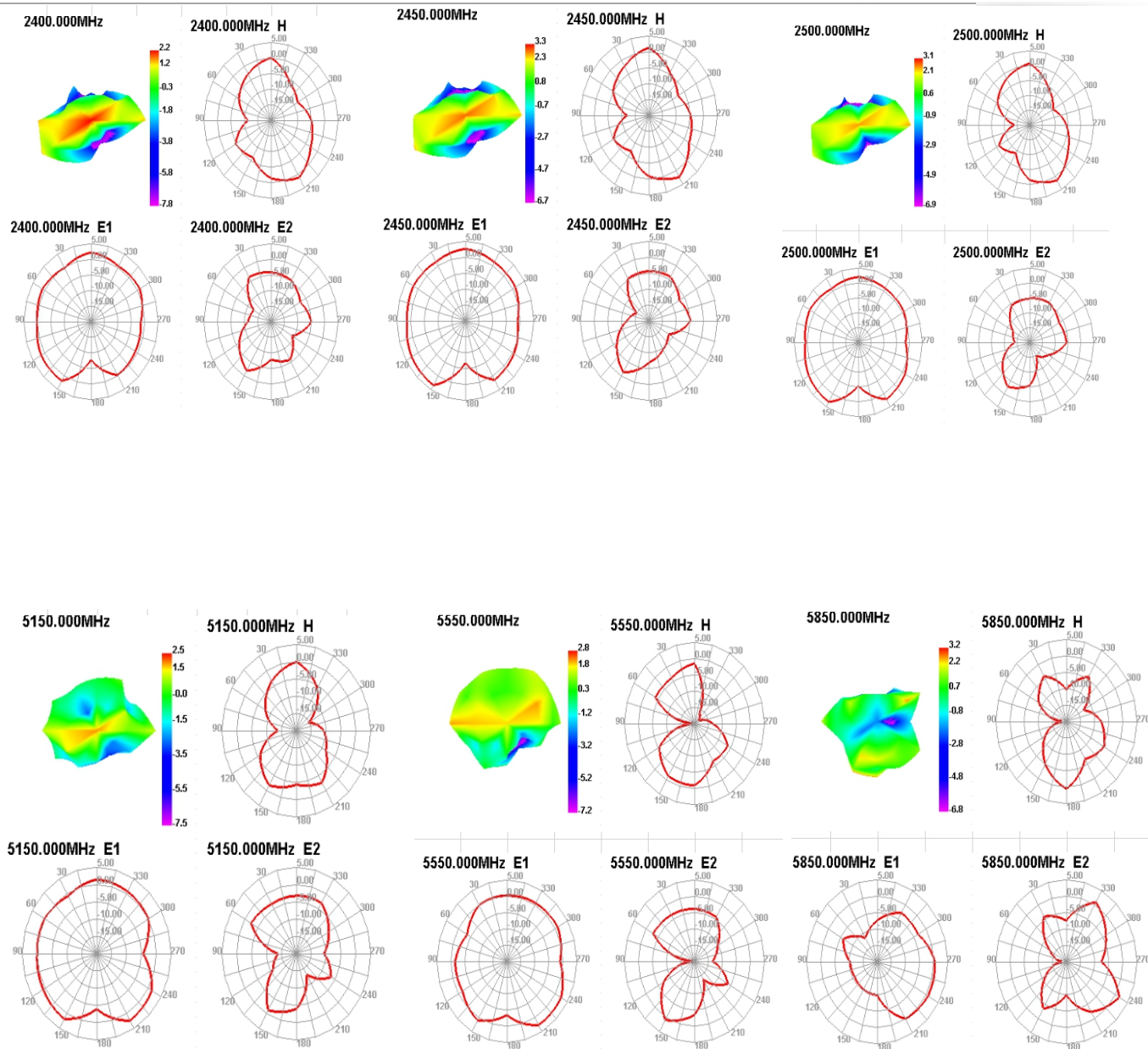
频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
驻波比	1.27	1.41	1.71	1.78	1.68	1.57	1.15	1.24

频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
阻抗	62.4 Ω	53 Ω	46.1 Ω	28.3 Ω	40.3 Ω	77 Ω	51.5 Ω	40.5 Ω

频率 (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
回损	-18.2	-15.3	-11.6	-10.9	-11.8	-13	-12.7	-19.2

增益&效率-X15

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	56.86	2.18
2450	61.27	3.31
2500	57.91	3.08
5150	50.94	2.49
5350	52.52	2.9
5550	54.98	2.81
5750	51.72	3.07
5850	52.92	3.23



WIFI OTA Data

2.4G WIFI	TRP			TIS		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
802.11 b , 11M	15.47	16.31	15.08			
802.11 g , 54M	14.12	14.37	14.16			
802.11 n , MCS7 (65M)	13.87	13.62	13.53			

5.8G WIFI	TRP				TIS			
Channel	CH36	CH60	CH149	CH165	CH36	CH60	CH149	CH165
802.11 A , 54M	16.17	16.4	17.48	17.53	-73.69	-73.12	-71.77	-74.37

天线位置安装图



Thanks