

Shenzhen Tongxun Precision
Technology Co., LTD

Customer	
Project	icarsoft-FPC
Antenna Revision	X/0
Product Description	FPC
Prepared by	LIDEWEN

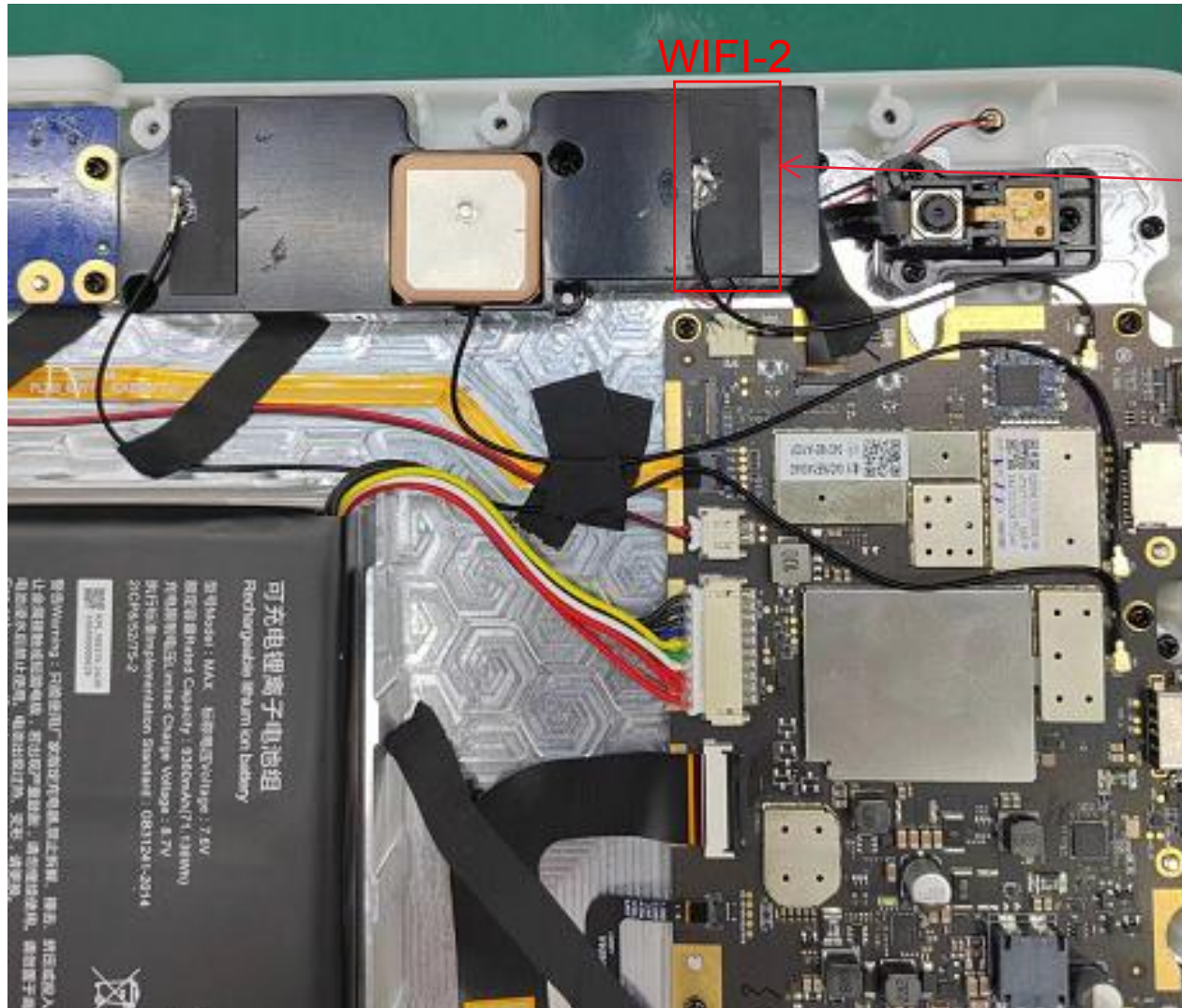
Contact number :

date : 2022.09.15

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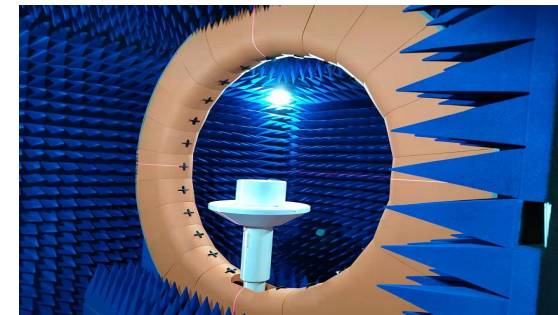
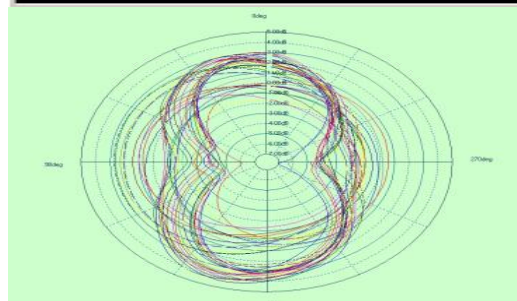
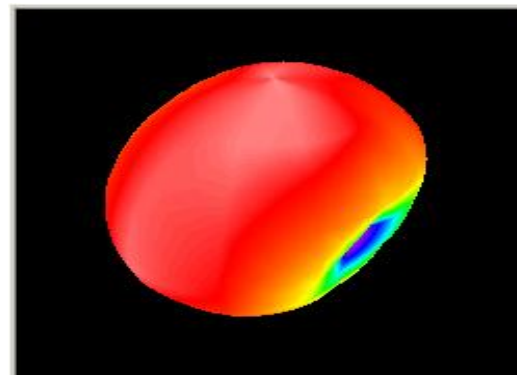
1. Test scenario and antenna location



L*W=31.2mm*11.8mm

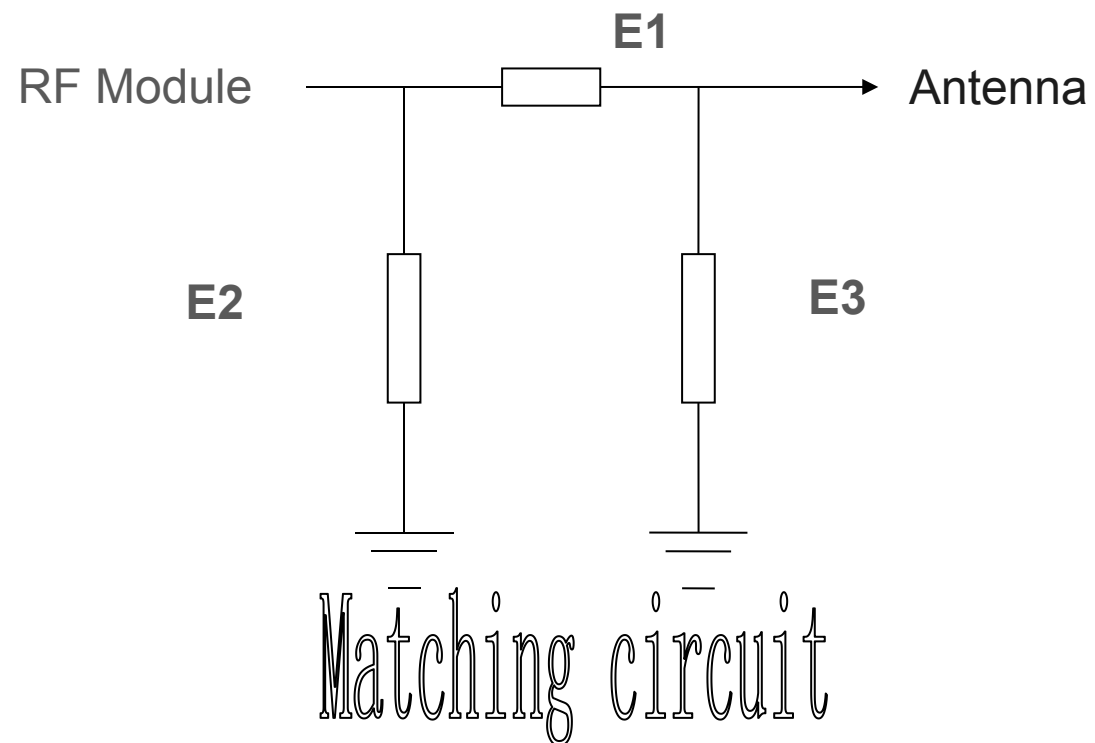
2. Test System

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



2.1. Antenna Matching Network

Element	Value
E1(0402)	0Ω
E2(0402)	NC
E3(0402)	NC
是否修改匹配	否



2.2 GAIN & Efficiency & 3D Data WIFI-2

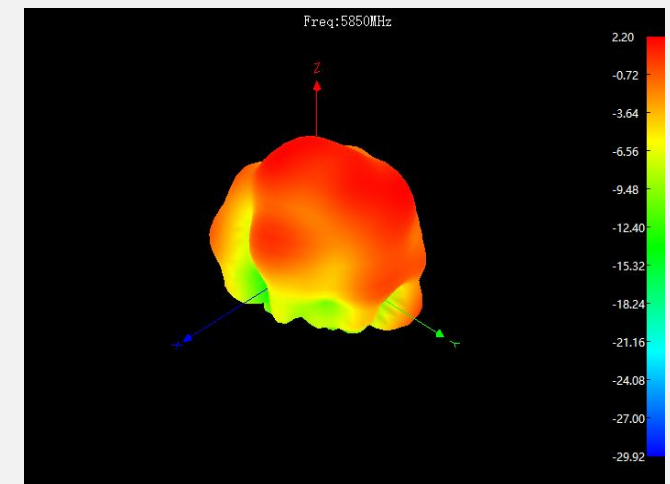
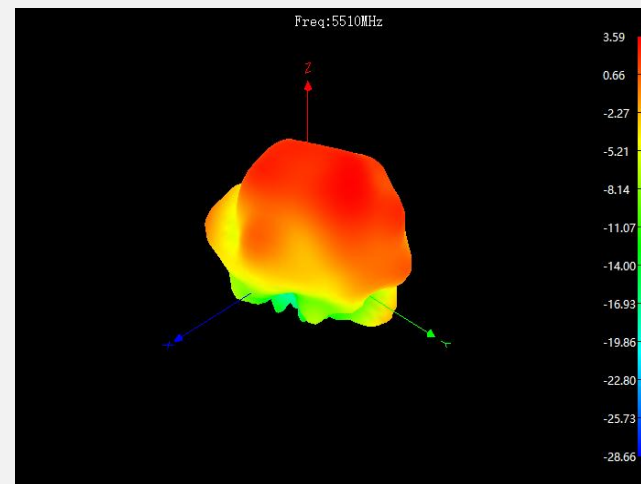
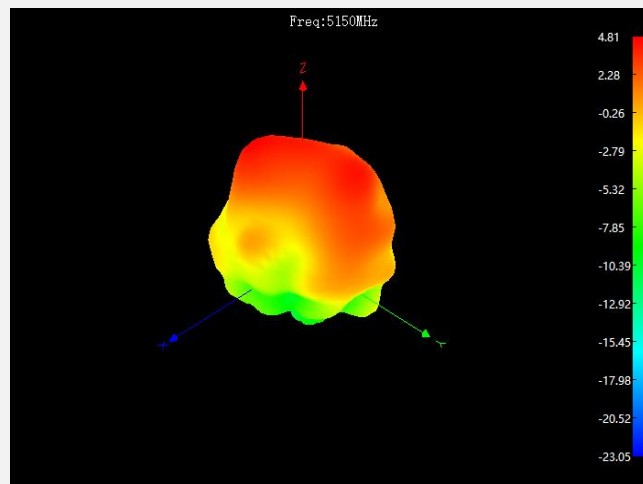
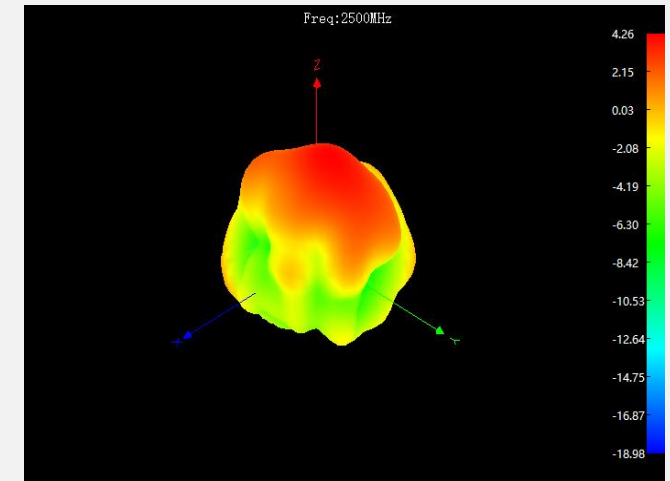
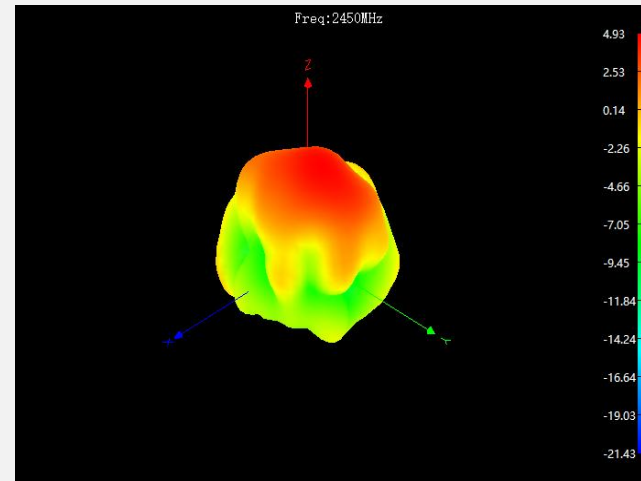
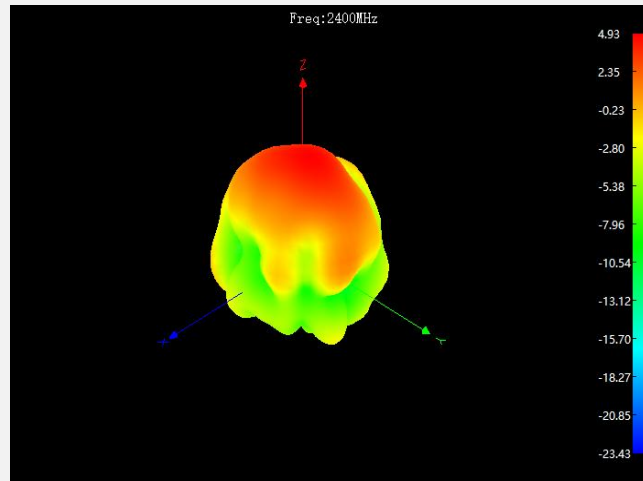
WiFi-2

Frequency/MHz	MaxGain/dBi	Efficiency / %
2400	4.93	51.52
2410	5.18	52.97
2420	5.53	55.72
2430	5.45	53.09
2440	5.09	49.66
2450	4.93	49.55
2460	4.43	48.19
2470	4.67	49.43
2480	4.16	51.05
2490	4.45	53.33
2500	4.26	53.46
5150	4.81	55.98
5170	4.31	54.83
5190	4.12	55.59
5210	4.07	54.2
5230	4.09	53.33
5250	4.13	52.6

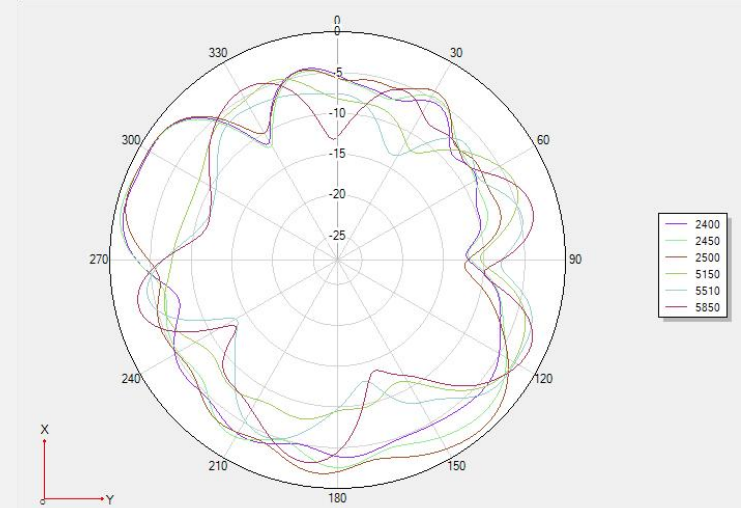
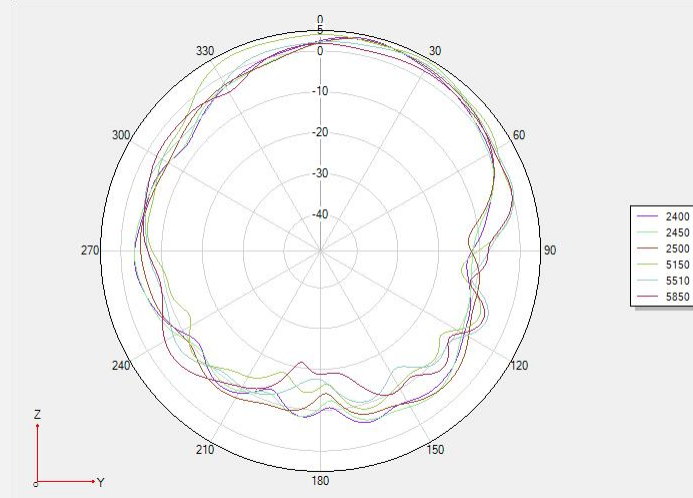
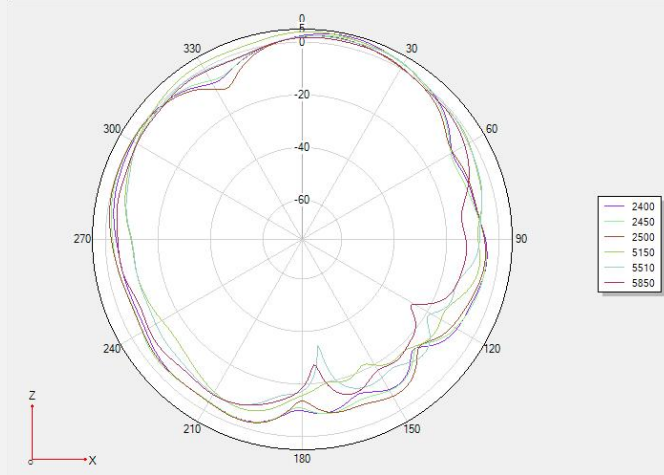
Frequency/MHz	MaxGain/dBi	Efficiency / %
5270	4.22	52.24
5290	4.48	53.09
5310	4.65	54.95
5330	4.27	54.7
5350	4.44	56.75
5370	4.38	56.75
5390	4.11	55.21
5410	3.91	53.46
5430	3.93	52.84
5450	3.85	51.29
5470	3.68	51.4
5490	3.57	50.82
5510	3.59	51.17
5530	3.58	51.52
5550	3.86	53.21
5570	3.75	51.4
5590	3.18	49.66

Frequency/MHz	MaxGain/dBi	Efficiency / %
5610	2.69	48.08
5630	2.61	49.43
5650	2.69	49.43
5670	2.97	50.12
5690	2.63	48.53
5710	2.66	50.82
5730	2.63	51.05
5750	2.56	52.6
5770	2.22	48.53
5790	1.97	48.87
5810	2.12	50
5830	2.4	53.21
5850	2.2	52

WIFI-2



WIFI-2



3. Conclusion

The passive standing wave of antenna is less than 2.0. When the efficiency gain is tested in the microwave laboratory, the test efficiency and gain meet the requirements. Attention shall be paid to the position of antenna sticker during installation! If you have any other questions, please call!