



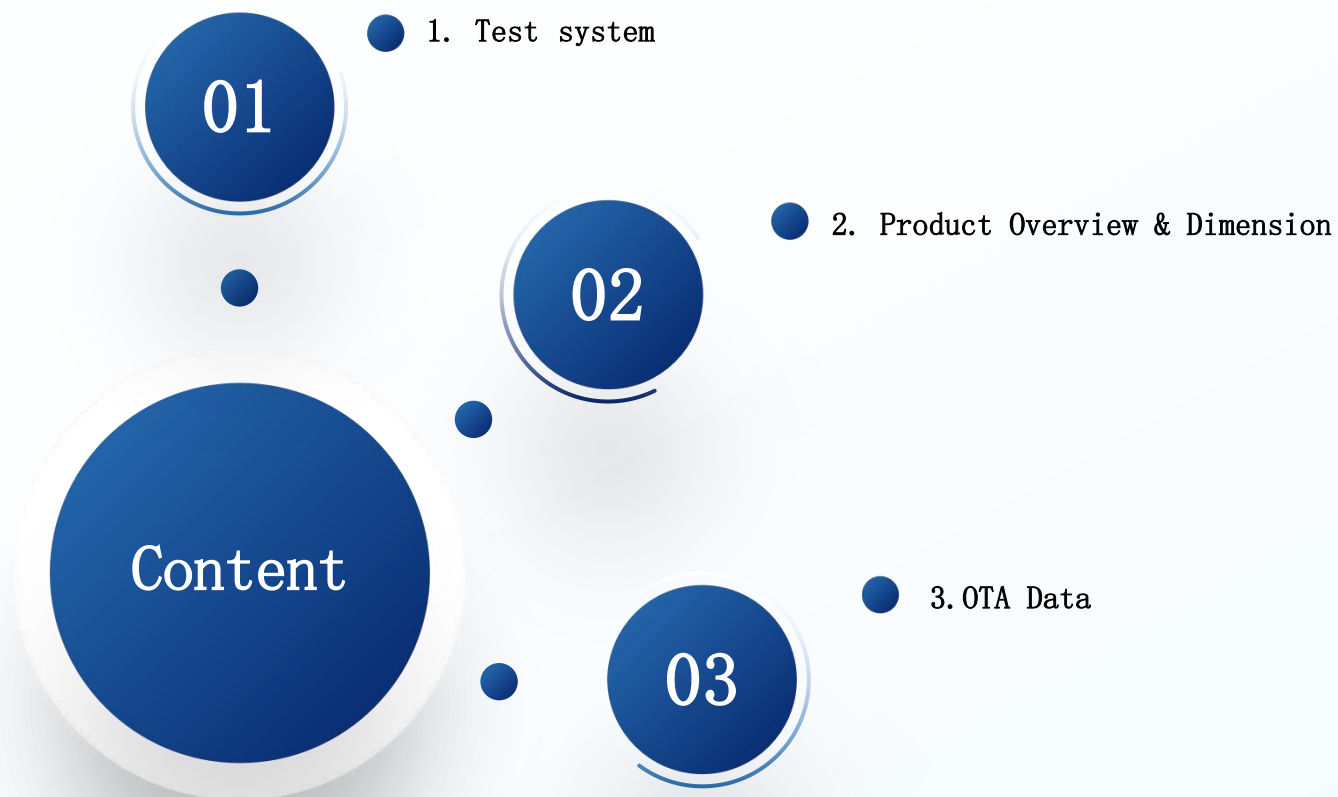
深圳合翊讯科技有限公司
Shenzhen Heyixun Technology Co., Ltd.

HEYIXUN
合翊讯

Customer	六联
Project	M8775
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2026. 1. 15

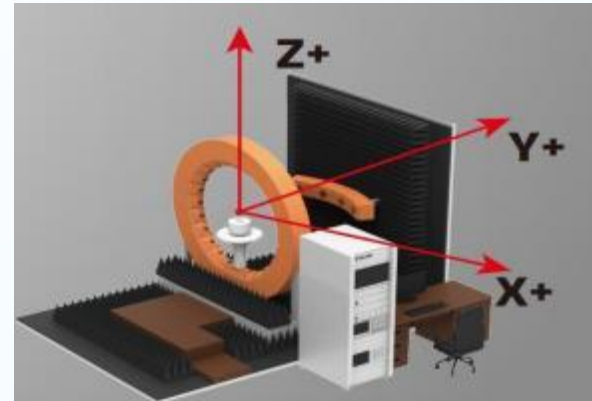
Purpose

This report is to measure the performance of antenna for **M8775** The antenna operating frequency at 1575.5MHZ 2400-2500MHZ 4800-5850MHZ All test data are showed as below.



1.TestSystem

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



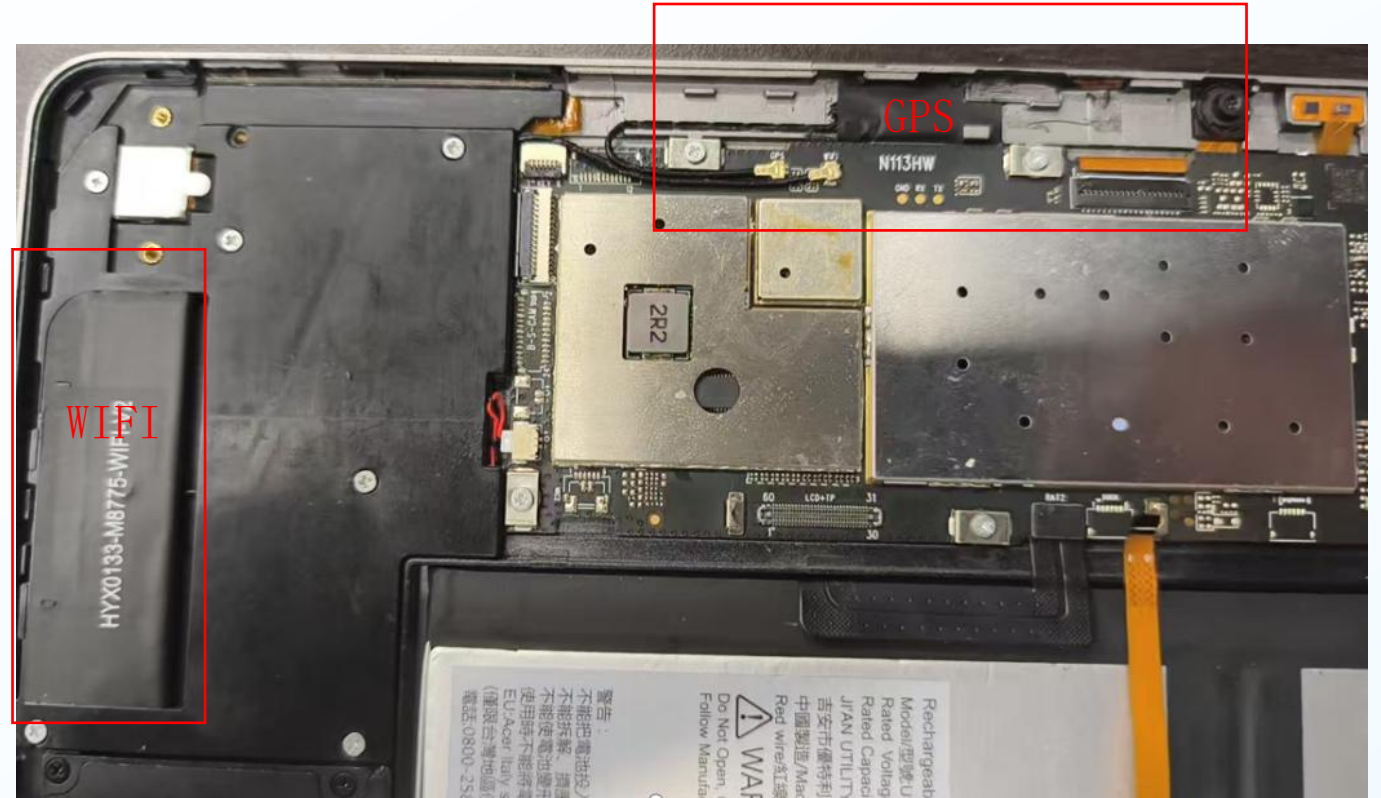
Front



Back



ANT



2 Test Result VSWR&Log Mag&Smith(Ω) WIFI



Frequency (MHz)	2400	2450	2480	2500	5150	5500	5720	5850
Log Mag	-15.14	-20.87	-14.47	-11.23	-7.69	-9.39	-5.01	-5.12
Smith(Ω)	47.43	58.24	74.56	29.11	23.45	32.99	39.61	92.16
VSWR	1.43	1.21	1.49	1.78	2.41	2.03	3.56	3.49

3.Test Result VSWR&Log Mag&Smith(Ω) WIFI

3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	35.62	1.58
2410	36.73	1.72
2420	37.68	1.73
2430	38.59	0.97
2440	39.43	1.27
2450	38.65	1.72
2460	37.67	0.25
2470	37.52	0.34
2480	36.47	0.57
2490	35.65	1.58
2500	35.11	0.13

3. Test Result VSWR&Log Mag&Smith(Ω) WIFI

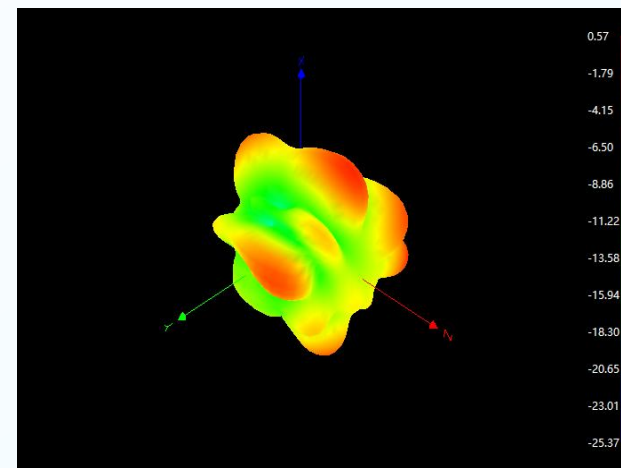
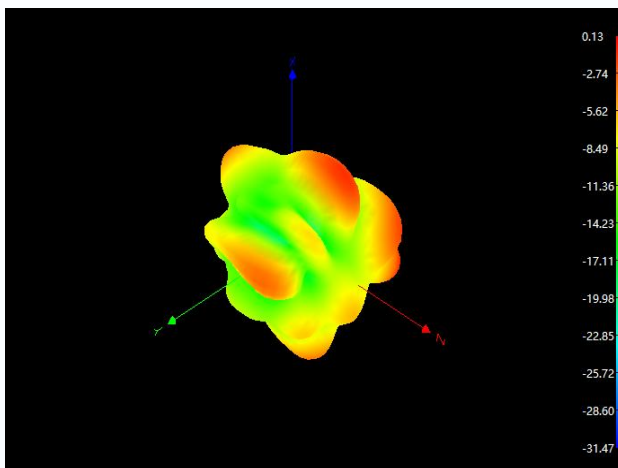
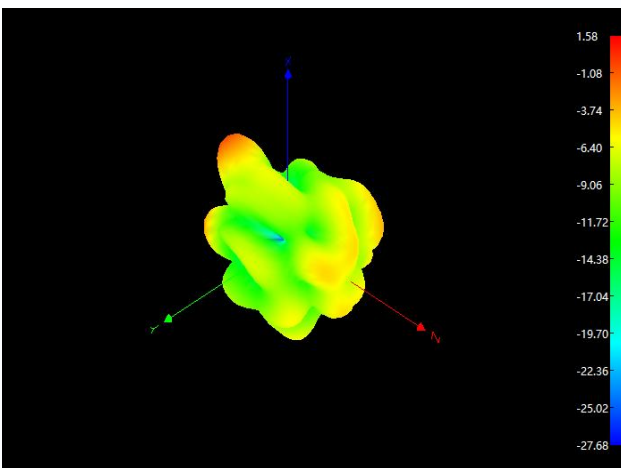
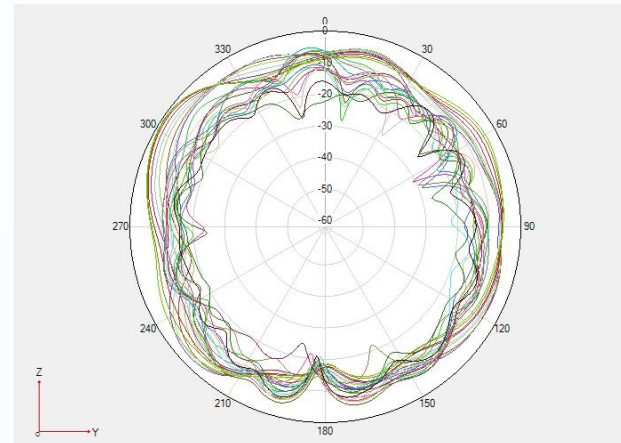
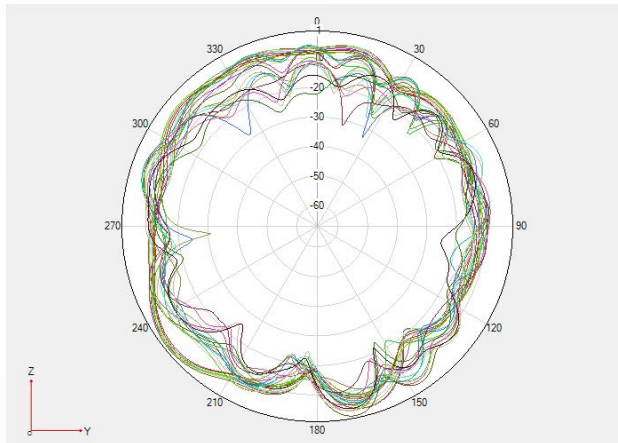
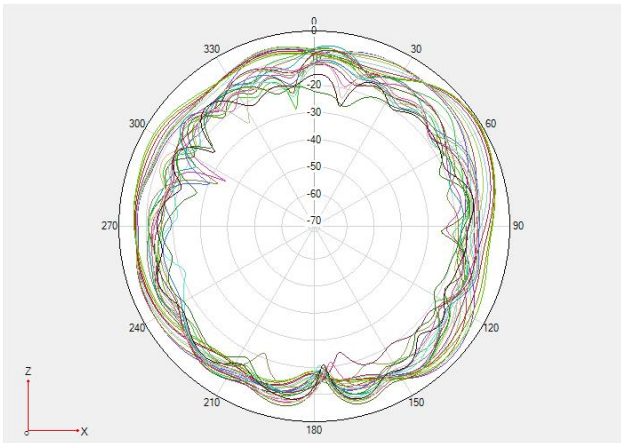
3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
4800	35.35	-0.81
4900	32.45	-0.5
5000	33.16	-0.36
5100	31.28	-0.56
5200	32.19	-0.89
5300	33.38	-0.35
5400	30.41	-0.62
5500	28.20	-0.37
5600	27.17	-0.43
5700	26.43	-0.81
5850	25.65	-0.7

3. Test Result

WIFI

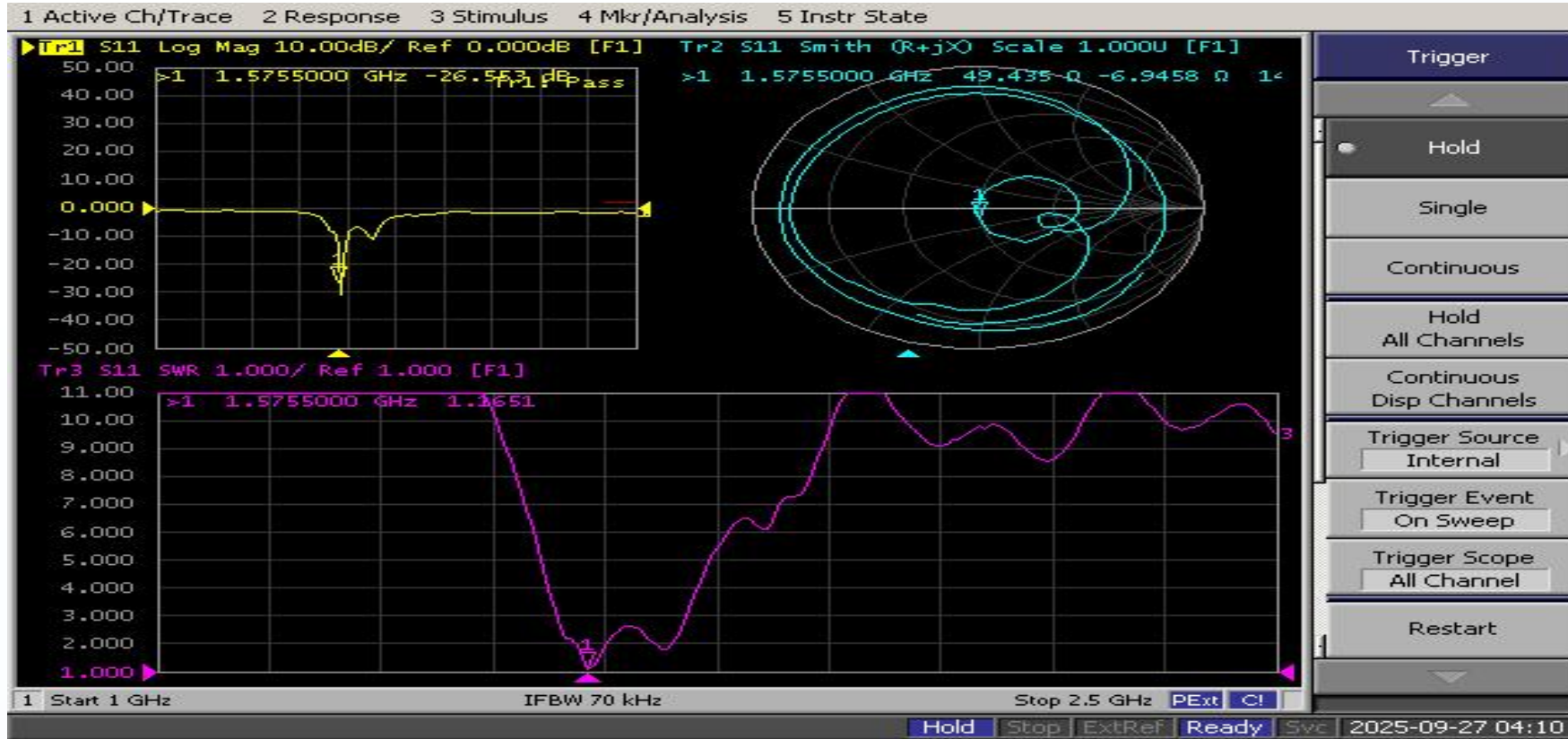
3.3 2D Pattern—WIFI ANT 2.4G



2 Test

Result VSWR&Log Mag&Smith(Ω)

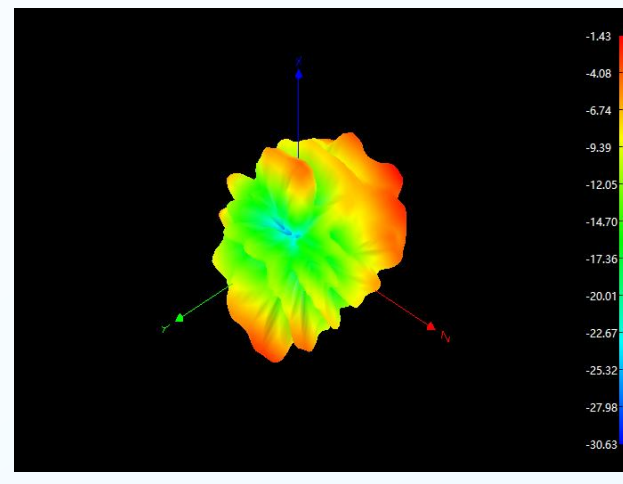
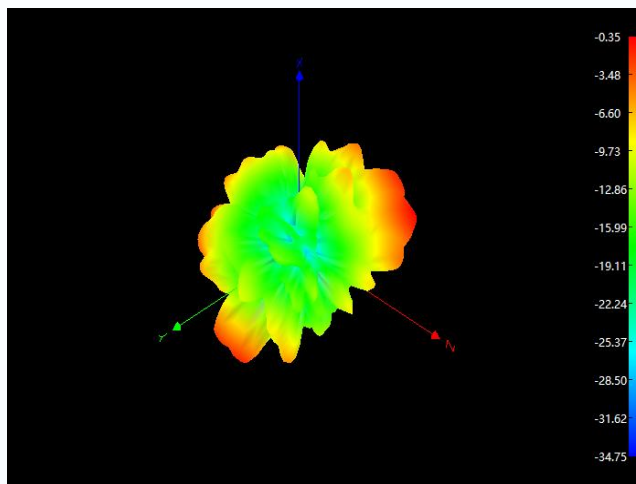
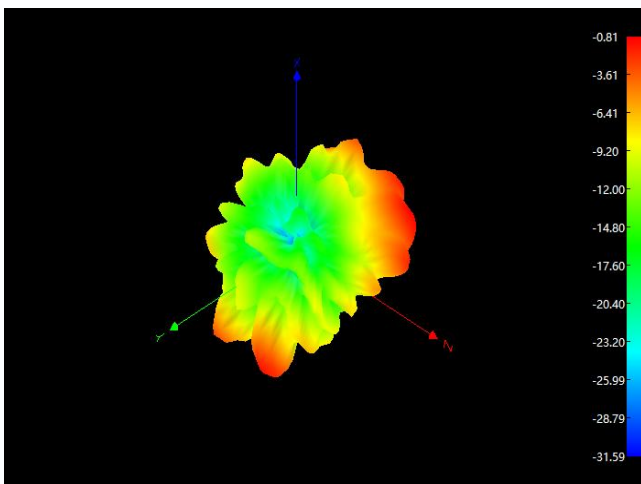
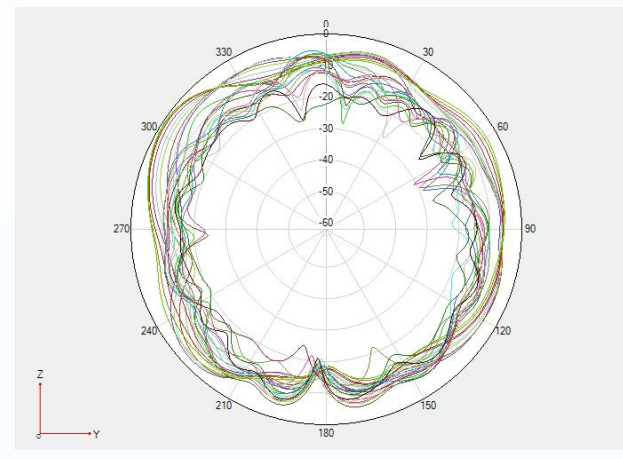
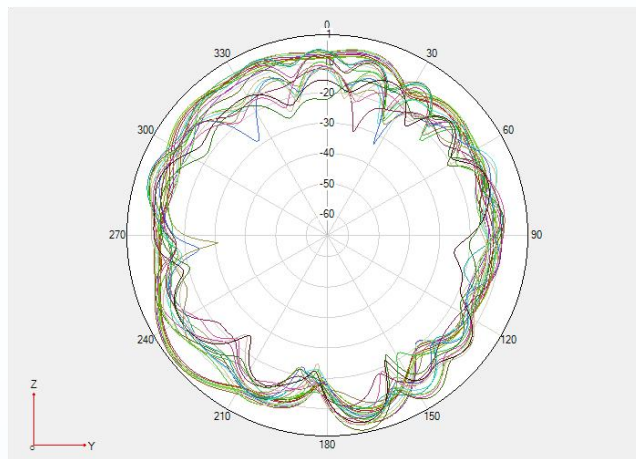
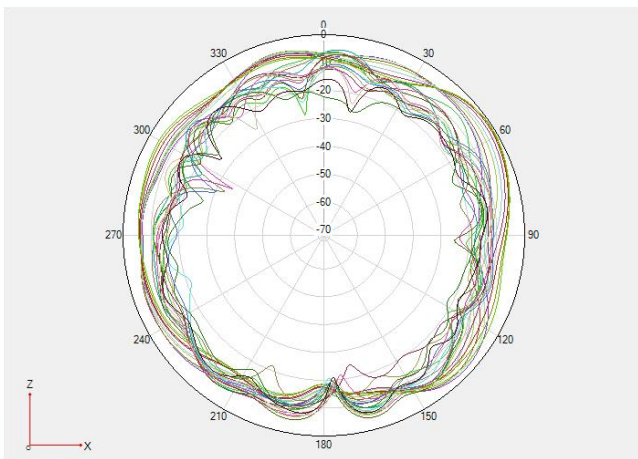
GPS



Frequency (MHz)	1575.5
Log Mag	-26.55
Smith(Ω)	49.44
VSWR	1.17

3. Test Result

3.3 2D Pattern——WIFI ANT 5.8G



GPS

3. Test Result VSWR&Log Mag&Smith(Ω) GPS

3.2 Gain & Efficiency——ANT

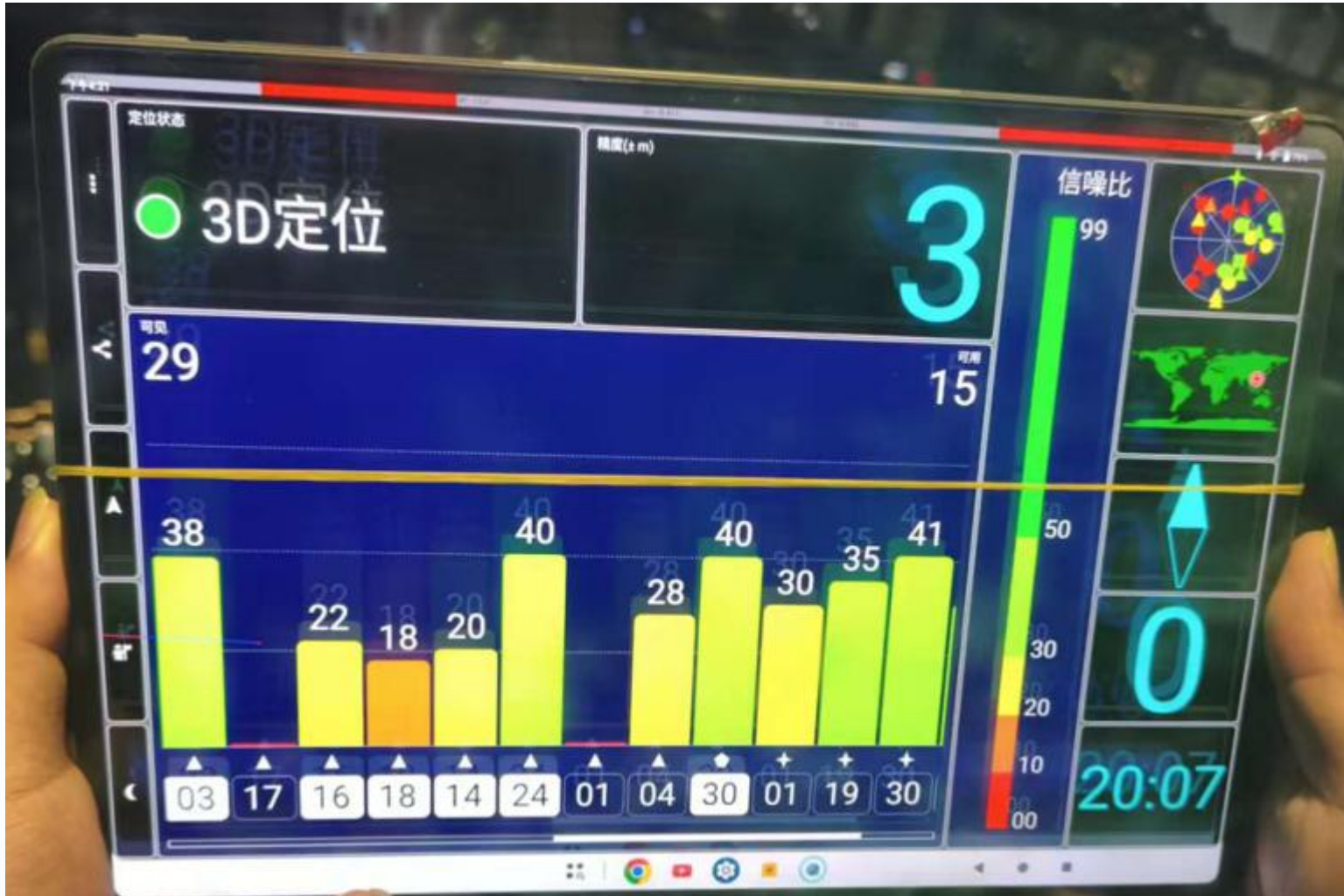
Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
1571.5	29.89	-0.44
1572	31.06	-0.42
1572.5	30.18	-0.39
1573	30.29	-0.36
1573.5	30.47	-0.31
1574	30.64	-0.26
1574.5	30.88	-0.2
1575	31.12	-0.13
1575.5	31.3	-0.04
1576	31.49	-0.02
1576.5	31.67	0.02
1577	31.92	0.06
1577.5	32.16	0.09
1578	32.48	0.14
1578.5	32.8	0.18

3.4-OTA Data

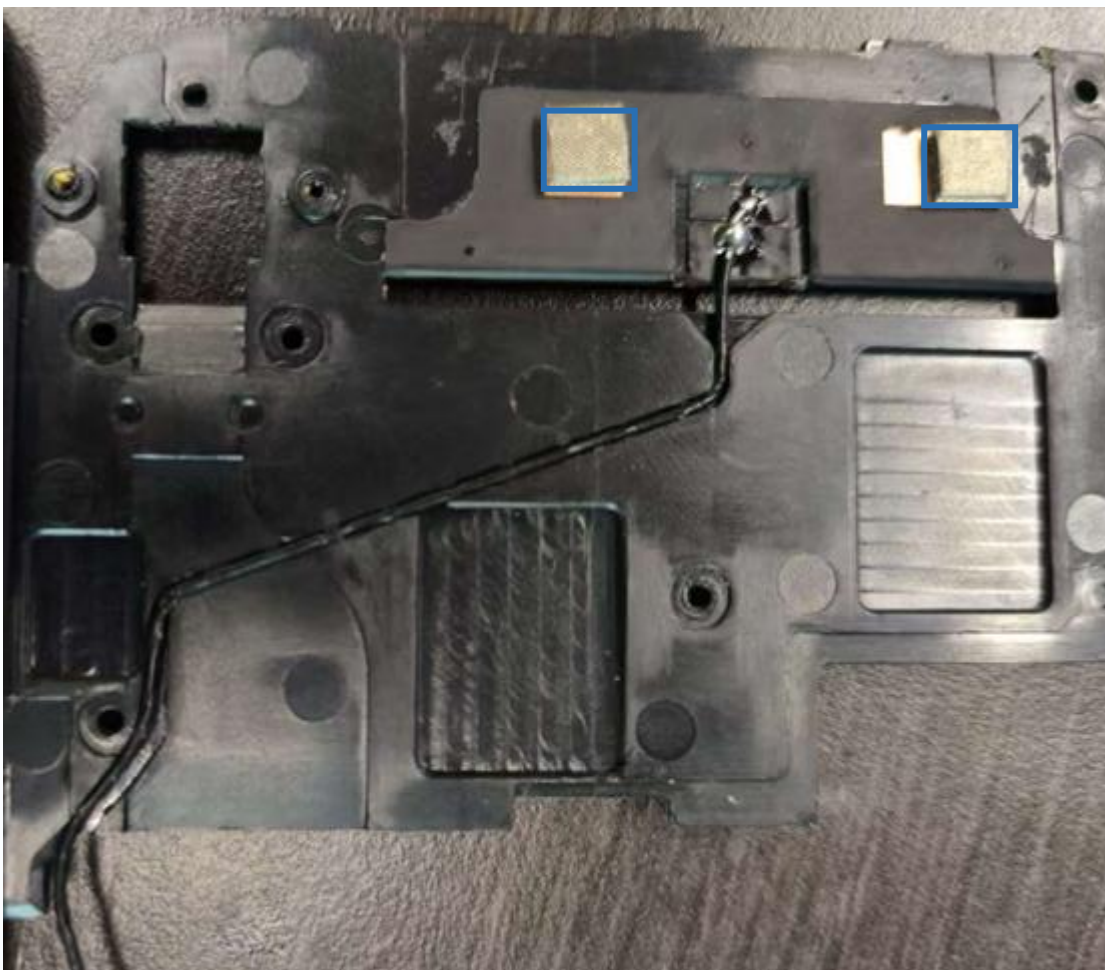
Test Equipment:	R&S CMW500			
Test Condition:	3 D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
WIFI	802.11 b/11Mbps	1	10.59	-79.26
		6	11.94	-78.77
		11	11.07	-79.17
	802.11 A/54Mbps	36	10.16	-70.43
		149	10.71	-70.82
		165	11.74	-71.44

GPS

测试场所：我
司办公室窗台。



装配说明:



蓝色框泡棉选为:
5*5*3mm

WORK REPORT

谢谢观看