

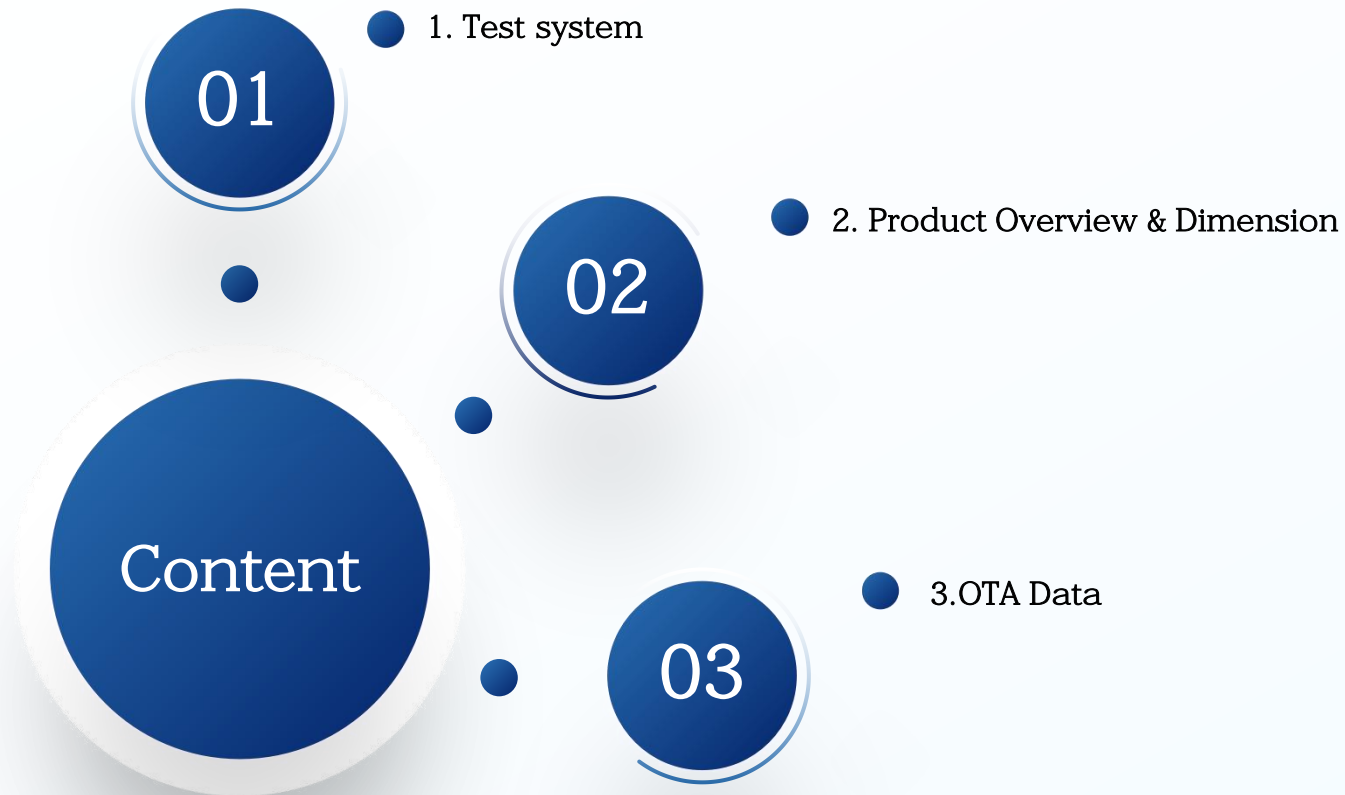


深圳合翊讯科技有限公司
Shenzhen Heyixun Technology Co., Ltd.

Customer	六联
Project	M8786-T30J-14MB
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2026. 8. 3

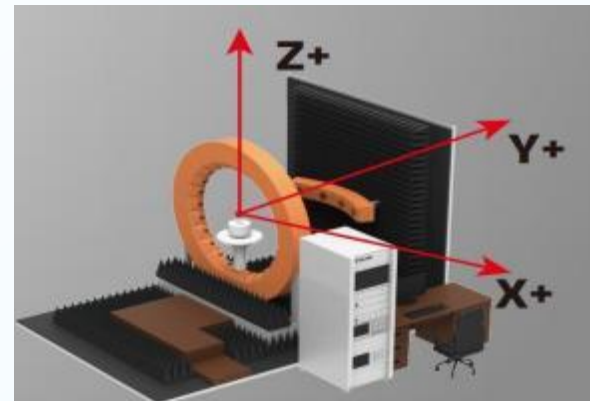
Purpose

This report is to measure the performance of antenna for **M8786-T30J-14MB** 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

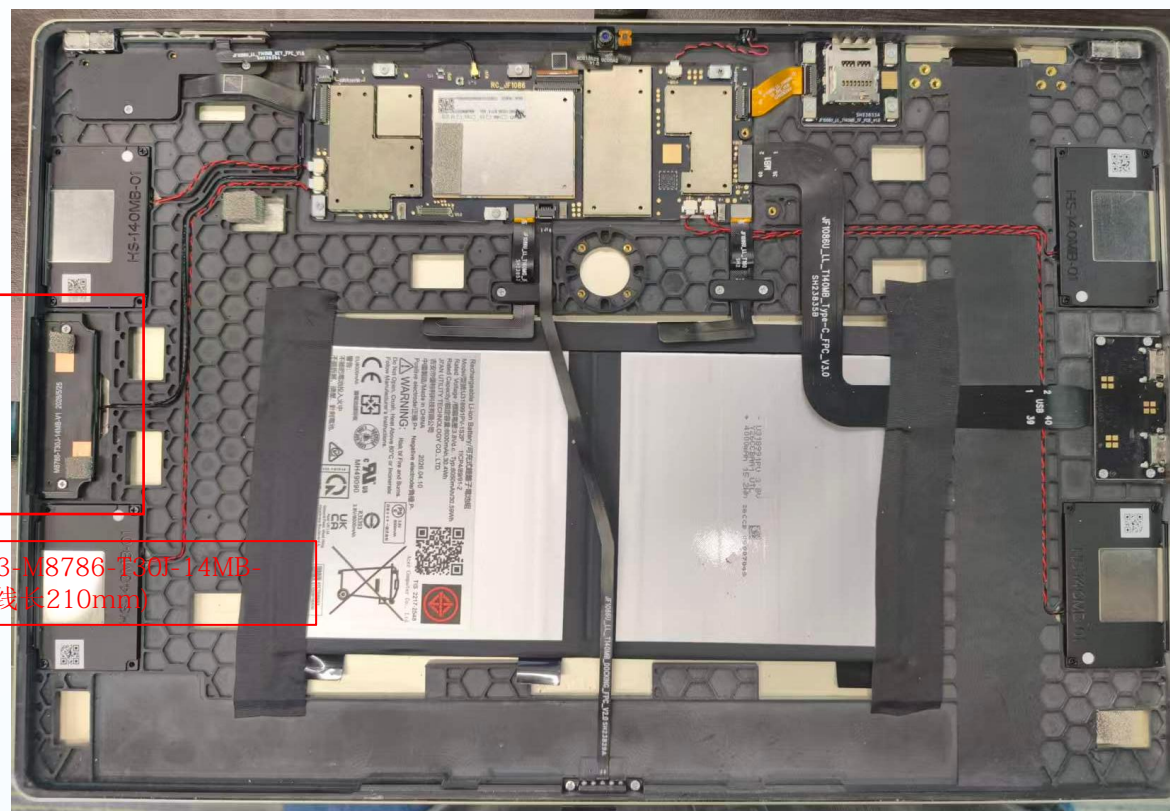
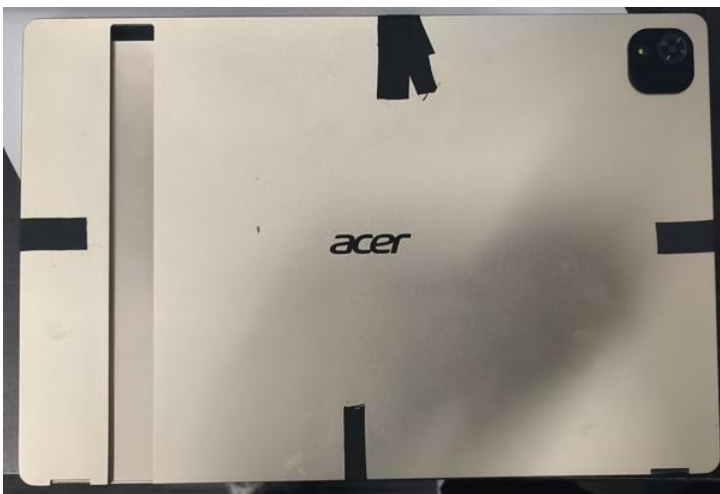


产品图片:

Front

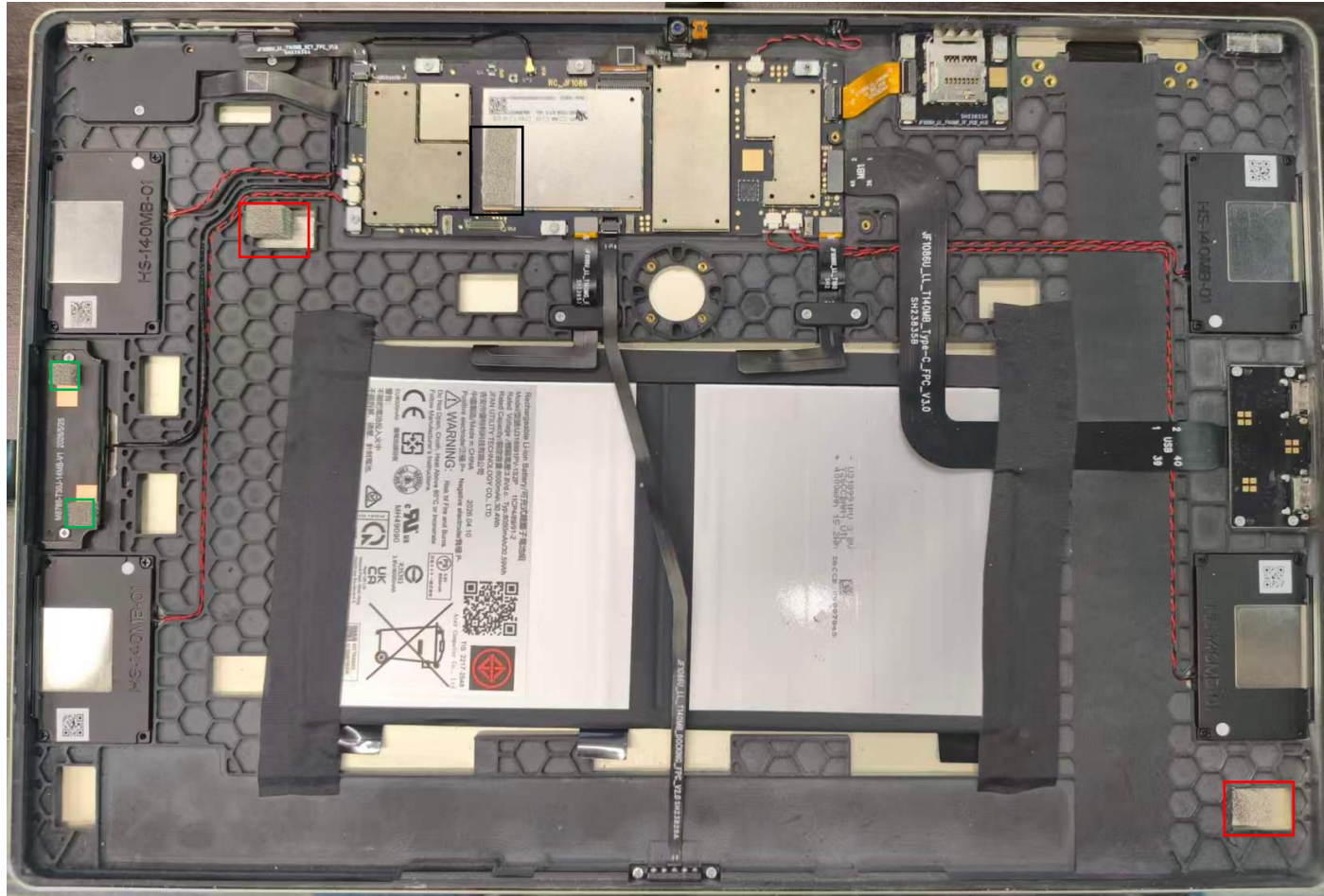


Back

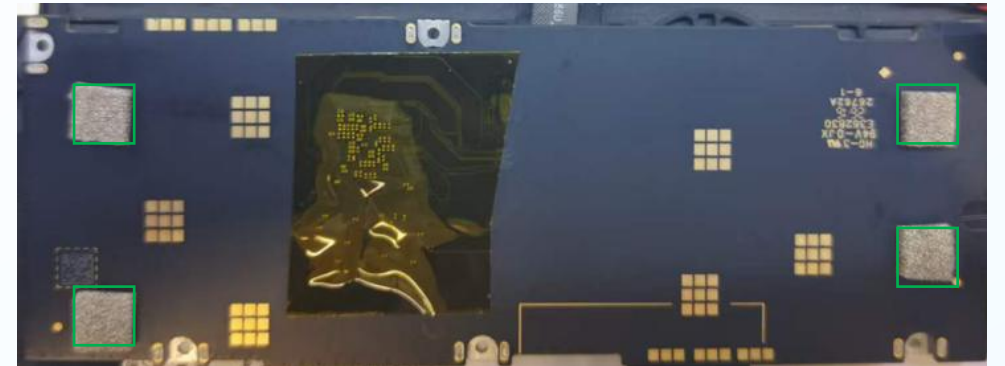


HYX0133-M8786-T30T-14MB-V1 (同轴线长210mm)

环境处理:

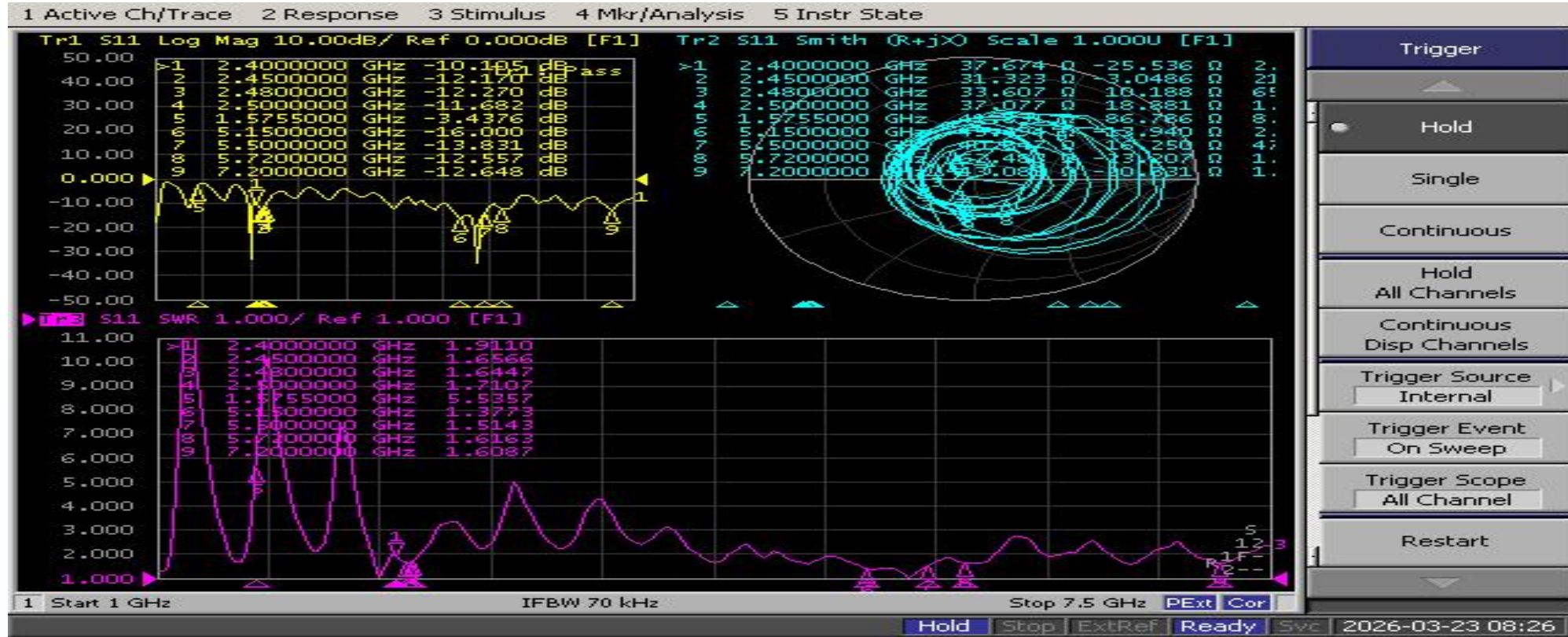


红色泡棉10*10*5mm
黑色泡棉8*20*2mm
绿色泡棉5*5*2mm



*注意：接地点对应底壳位置，金属需要漏出来。

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



Frequency (MHz)	2400	2450	2480	2500	5150	5500	5720
Log Mag	-10.11	-12.17	-12.27	-11.68	-16.00	-13.83	-12.56
Smith(Ω)	37.67	31.32	33.61	-37.08	41.62	45.77	46.72
VSWR	1.91	1.66	1.64	1.71	1.38	1.51	1.62

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

3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	30.17	0.43
2410	31.43	0.56
2420	32.56	0.29
2430	33.17	0.33
2440	35.17	0.47
2450	34.98	0.61
2460	33.94	0.52
2470	32.56	0.28
2480	31.73	0.37
2490	30.62	0.41
2500	29.47	0.51

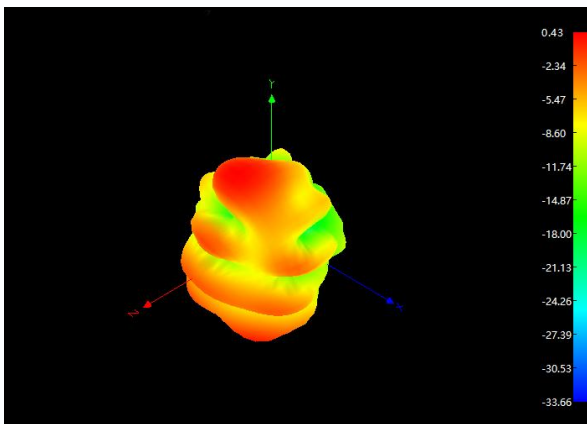
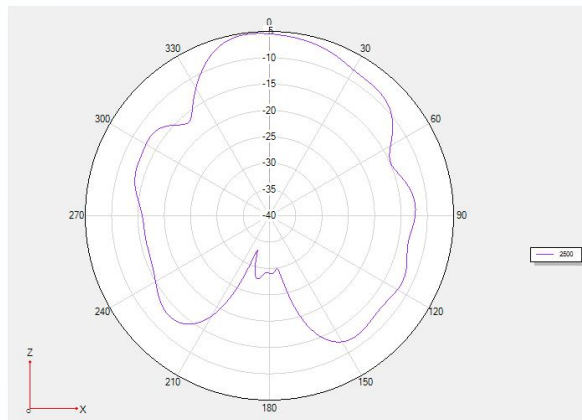
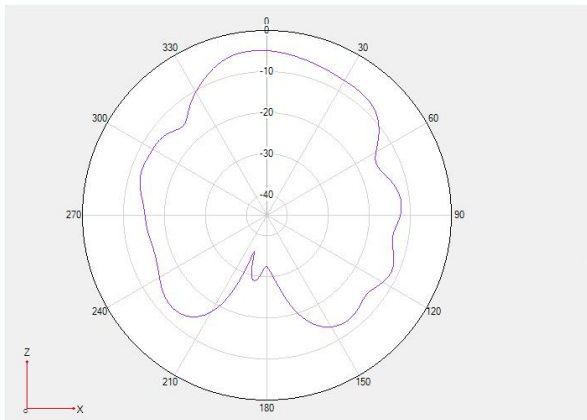
3. Test Result VSWR&Log Mag&Smith(Ω) WIFI

3.2 Gain & Efficiency——ANT

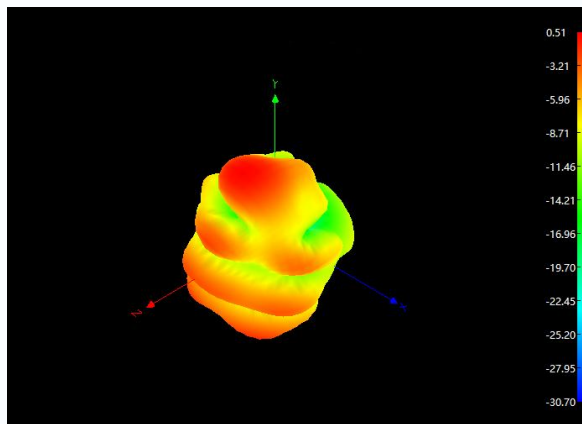
Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
4800	35.74	-0.56
4900	36.17	-0.77
5000	34.29	-0.32
5100	35.44	-0.43
5200	34.72	-0.61
5300	33.63	-0.71
5400	34.95	-0.56
5500	33.72	-0.63
5600	34.31	-0.72
5700	36.22	-0.89
5850	35.73	-0.56

3. Test Result

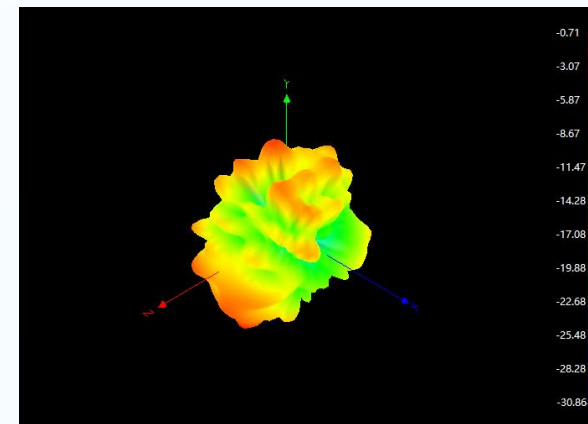
3.1 2D Pattern—BTANT



2400MHz



2500MHz



5300MHz

3.4-OTA Data

Test Equipment:	R&S CMW500					
Test Condition:	3 D chamber					
Band	Wireless Protocol	Channel	TRP(dBm)	TRP(dBm)	外置 TRP(dBm)	外置 TRP(dBm)
WIFI	802.11 b/ 11Mbps	1	10.35	-81.43	12.12	-83.61
		6	11.03	-82.37	13.96	-84.76
		11	10.69	-81.66	13.69	-84.22
	802.11 A/54Mbps	36	8.11	-68.87	11.25	-73.47
		100	8.04	-69.74	11.47	-74.57
		149	8.32	-68.89	11.62	-75.62

WORK REPORT

谢谢观看