

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X1

品 名 / 规格 :

2.4~2.5/5.15~5.85GHz

单重:

SPECIFICATION WIFI MAIN Antenna L=290mm(Ø0.81+MHF)

weight

供 方 料 号 :

SLEingB245870290

SUP PART NO

日 期 :

2024.04.25

DATE

厂 商 核 准 :

SUP APPROVED

核准 APPROVED	结构审核 Structure audit	RF审核 RF CHECKED	品保审核 QA CHECKED	承办 DESIGNED
<i>Jouyuan</i>	<i>H24</i>	<i>70M</i>	<i>LSY</i>	<i>xumf</i>

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH CO., LTD

中国广东省东莞市松山湖工业东路24号现代企业加速器6栋402

Room 402, No. 6 Plant, Accelerator of Modern Enterprise, No. 24 Industry
East Road Songshanlake District, Dongguan City, Guangdong

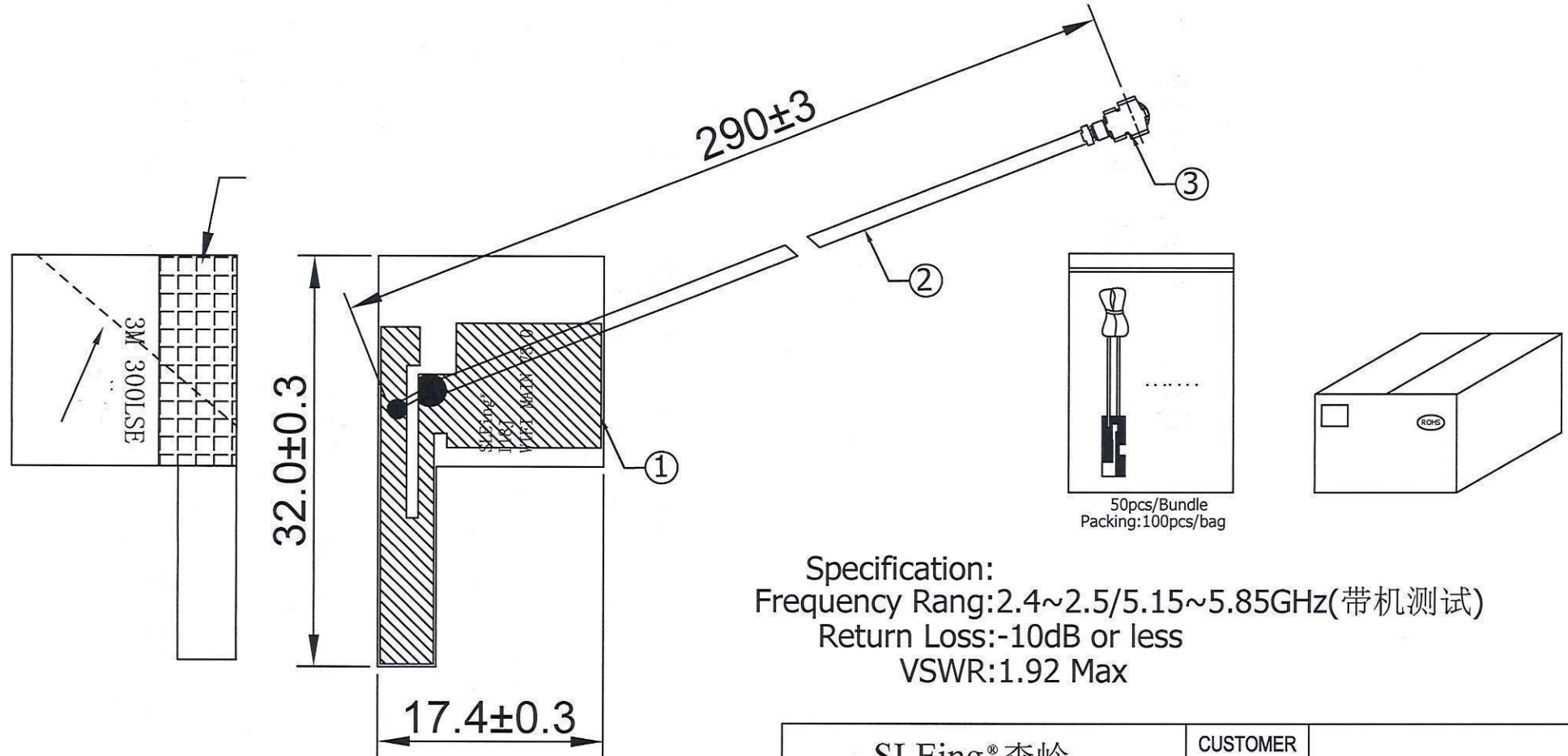
Tel: +86-076989208968

Fax: +86-0769-89208969

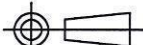
www.sleing.com

正本由承办单位保存

REV.	CONTENT	DATE
X1	First Sample	2024.04.25



Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHz(带机测试)
Return Loss:-10dB or less
VSWR:1.92 Max

SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO.,LTD			CUSTOMER			
			PART NO			
			TITLE		WIFI MAIN ANTENNA	
			S.L P/NO		SLEingB245870290	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWED	CHECKED	APPROVED
UNIT:mm	ANGLES ±0.5°	X. ±0.3	A4			
SHEET: 1/1	.XX ±0.05	XX. ±0.5				
SCALE: 1/1		XXX. ±2.0				
4		3		2		1



东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO.,LTD

电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2 $\pm$ 0.5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	Φ 0.81mm Grey
Operating Temp.	-40~+85 °C
Storage Temp.	-5~+30 °C

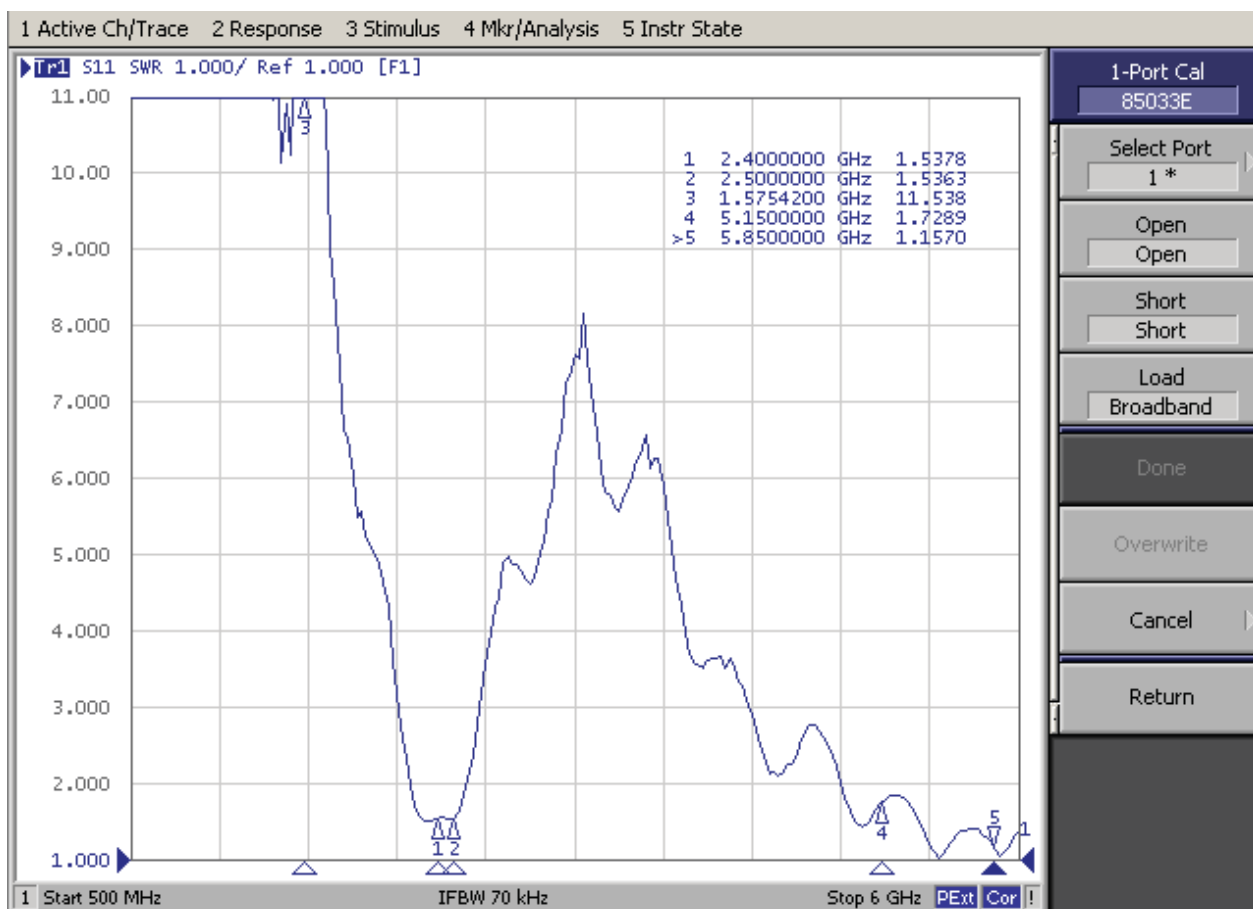
S 参数测试

S Parameter Test

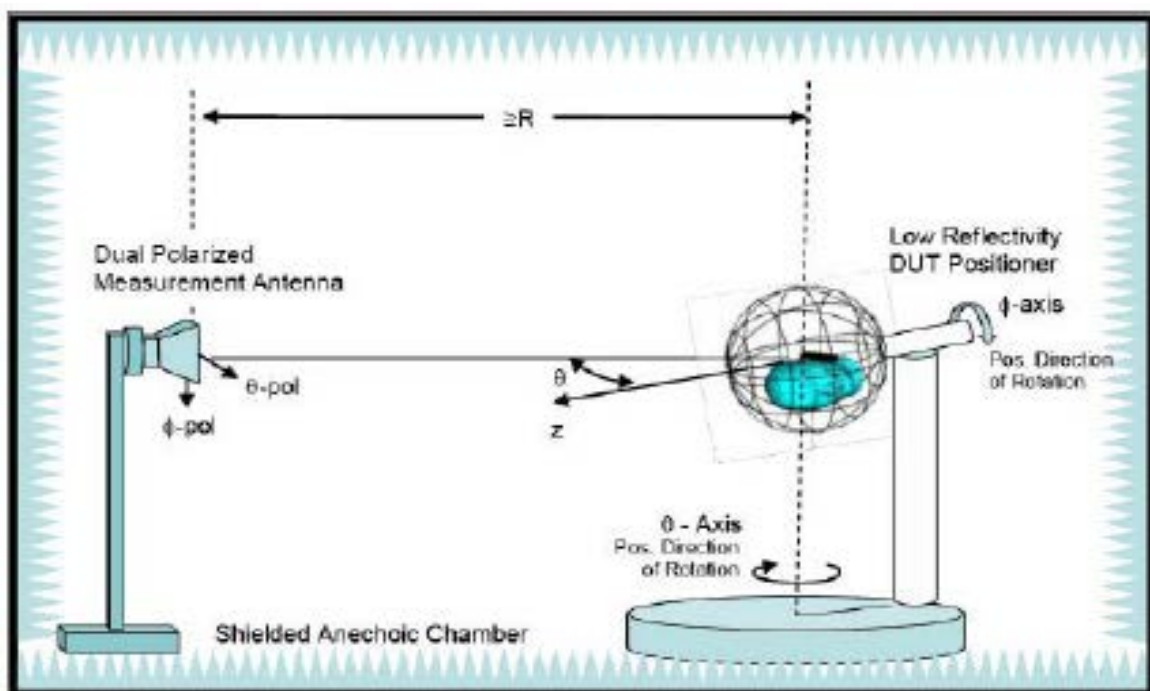
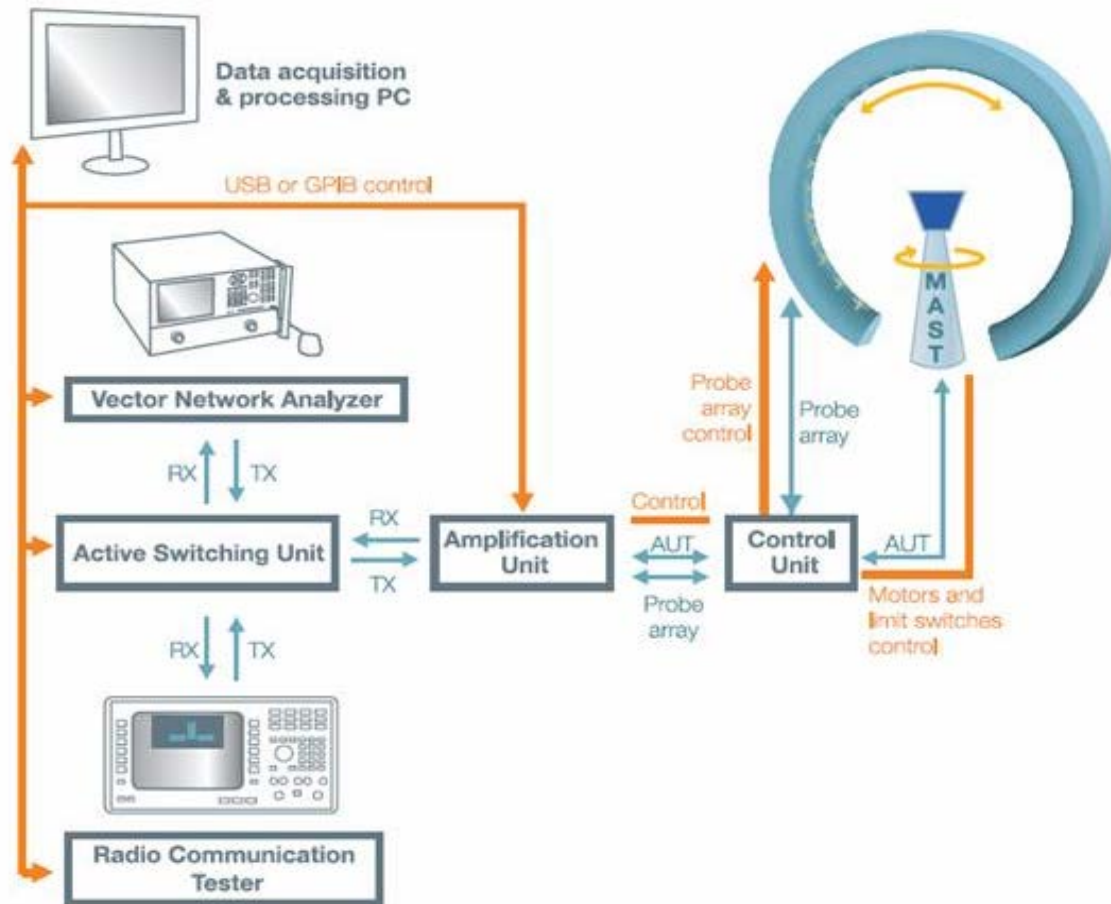
Agilent E5071C Network Analyzer



WiFi Antenna (NO.1)

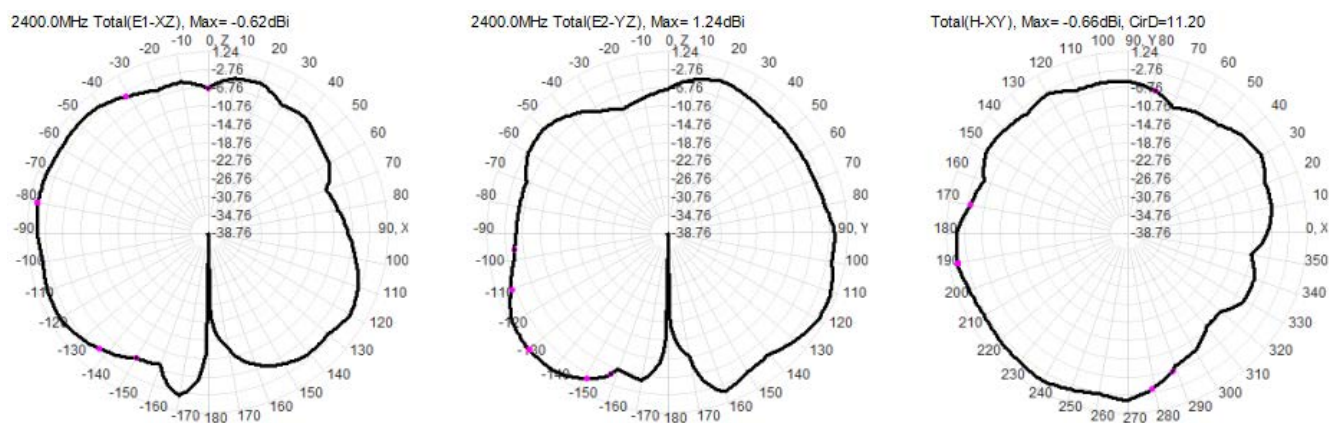


测试设备 Test Setup



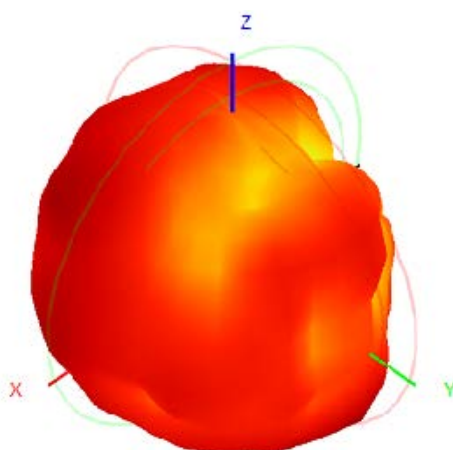
方向图 (2.4G) Patten

1.3 2D Radiation patterns test results (Passive Antenna)



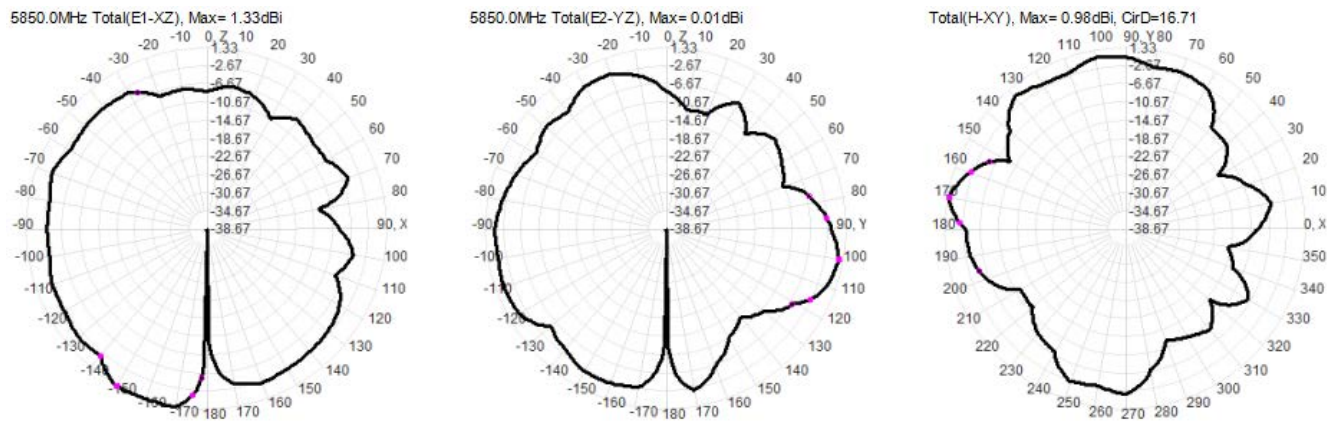
1.5 3D Radiation patterns test results (Passive Antenna)

3D



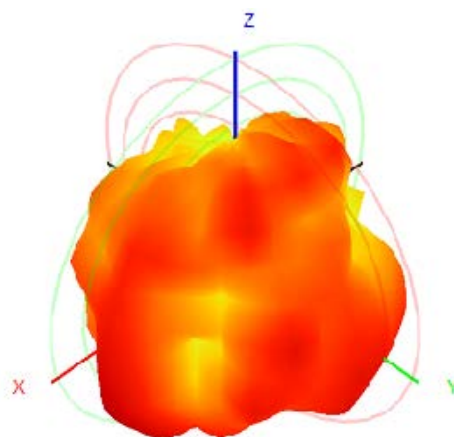
方向图（5.8G） Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D





东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO.,LTD

测试效率

Test Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.24	1.76	1.72	1.90	2.10	1.71	1.64	0.86	1.54	1.30	1.36
Efficiency (%)	41.48	45.15	45.60	47.11	48.87	46.64	44.45	37.62	43.42	40.23	39.32

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
1.27	1.71	2.02	2.47	2.81	3.06	2.24	2.61	2.82	3.38	3.66	2.46	2.59	3.47	3.94
30.20	32.85	33.40	35.00	36.27	34.84	31.02	29.81	31.70	36.73	34.03	28.34	29.58	31.12	33.74

东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH.CO.,LTD

地址：东莞市松山湖工业东路现代企业加速器6栋402

电话：0769-89208968

传真：0769-89208969



WIFI天线OTA测试报告

Test Data: 2024/4/8		WIFI模块: Intel AX101		天线厂:	
项目: 主+副天线	Performance request (性能要求)	信道	结果	判定	备注
2.4G WiFi_11b_CCK_11M	TRP	$\geq 10\text{dbm}$	1	10.54	PASS
			7	11.27	
			13	11.13	
	TIS	$\leq -80\text{dbm}$	1	-81.39	PASS
			7	-81.08	
			13	-81.60	
5G WiFi_11a_54M	TRP	$\geq 9\text{dbm}$	36	11.82	PASS
			64	12.35	
			157	12.33	
	TIS	$\leq -64\text{dbm}$	36	-68.95	PASS
			64	-68.24	
			157	-65.92	