

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X1

品 名 / 规格 :

SPECIFICATION

2.4~2.5/5.15~5.85/1.57542GHz

WIFI+GPS Antenna

单重:

weight

供 方 料 号 :

SUP PART NO

SLEingE100090376

日 期 :

DATE

2023.09.26

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>peng</i>	<i>H24</i>	<i>720M</i>	<i>LSY</i>	<i>Xiang</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

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正本由承办单位保存



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变更记录

MODIFICATION RECORD SHEET

版本 (REV.)	更改日期 (Modification date)	更改内容描述 (Summary of modification content)	拟制 (Signature)	批准 (Approval)
X1	2023.09.26	初版发行 (First Issue)	胡赵海 (Jerry)	朱正锐 (Jongrei)



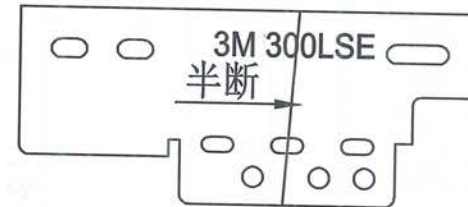
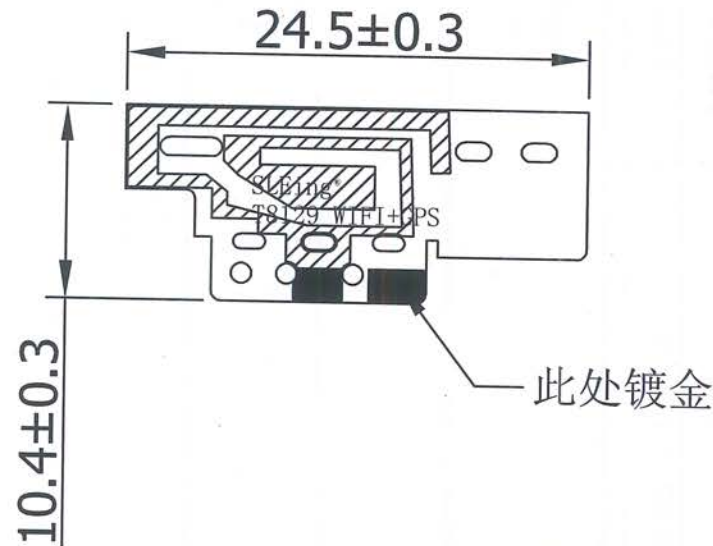
承认书项目表 (Spec Item)

序号 (NO.)	项目 (Project)	备注 (Remark)	页码 (Page)
1	承认书封面 (Spec Cover)		1
2	变更记录 (MODIFICATION RECORD SHEET)		2
3	承认书项目表 (Spec Item)		3
4	工程成品图 (Drawing)		4
5	电性测试报告 (Test Reports)		5
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7	S参数测试 (S Parameter Test)		7
8	测试设备 (Test Setup)		8
9	测试效率 (Test Efficiency)		9
10	OTA		10

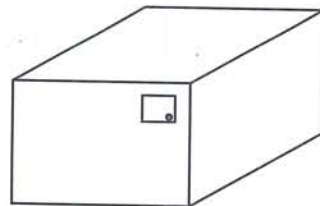
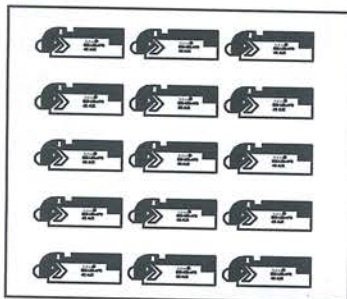
Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

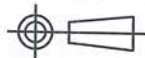
REV.	CONTENT	DATE
X1	First Sample	2023.09.26



Specification:
Frequency Rang: 2.4~2.5/5.15~5.85/1.57542GHz(带机测试)
Return Loss: -10dB or less
VSWR: 1.92 Max



外箱须贴GP标签与物料标签各1PCS

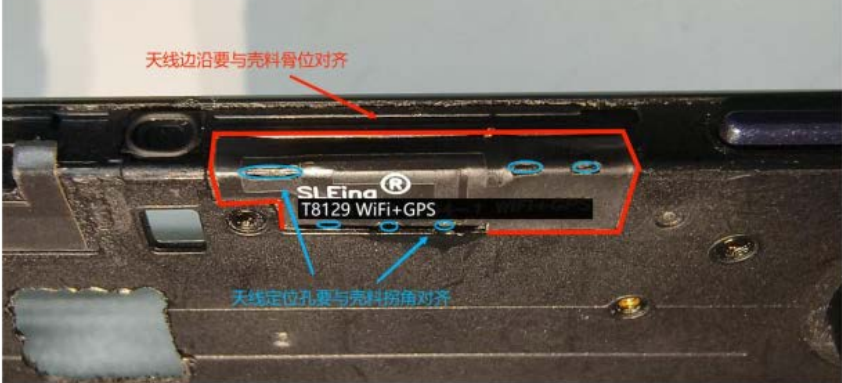
SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO.,LTD				CUSTOMER			
				PART NO			
				TITLE		WIFI+GPS ANTENNA	
				S.L P/NO		SLEingE100090376	
		TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWN	CHECKED	APPROVED
				A4			
UNIT:mm		ANGLES ±0.5°	X. ±0.3				
SHEET: 1/1		.XX ±0.05	XX. ±0.5				
SCALE: 1/1			XXX. ±2.0				
4		3		2		1	

NO	PART NAME	DESCRIPTION	REMARK	Q'TY
1	FPCB	FPC, L24.5*W10.4*T0.1mm, Black		1

Test Reports

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85/1.57542GHz (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±0.5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	
Physical Properties	
Antenna Material	FPCB
Cable Type	
Operating Temp.	-25~+75 °C
Storage Temp.	-25~+75 °C

天线组装图
Antenna Profile

<i>Device</i>	6. 如下为 WIFI+GPS 天线粘贴方法，注意粘贴过程中天线不能有起翘、破损、偏移 
<i>Antenna</i>	

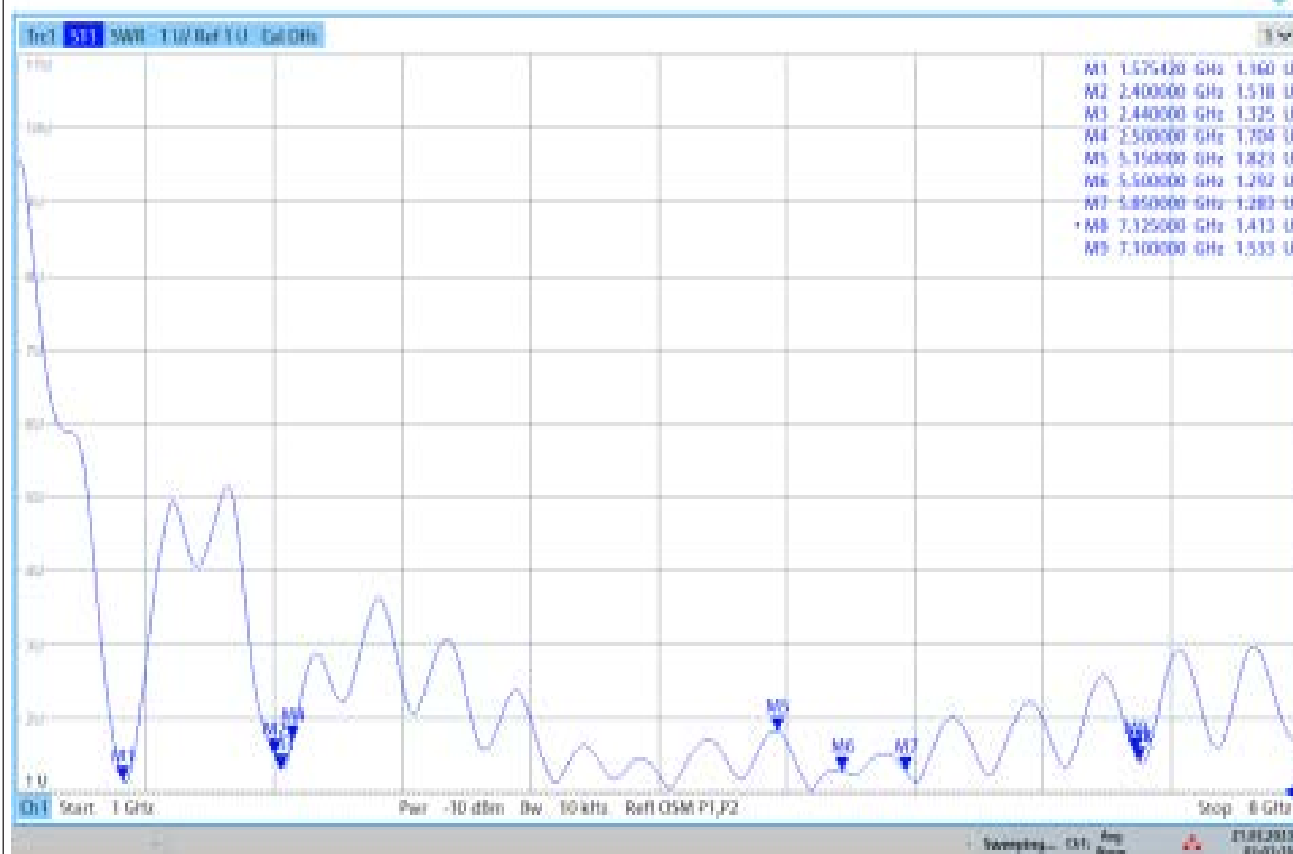
S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer



WiFi+GPS 驻波 Antenna (NO.1)



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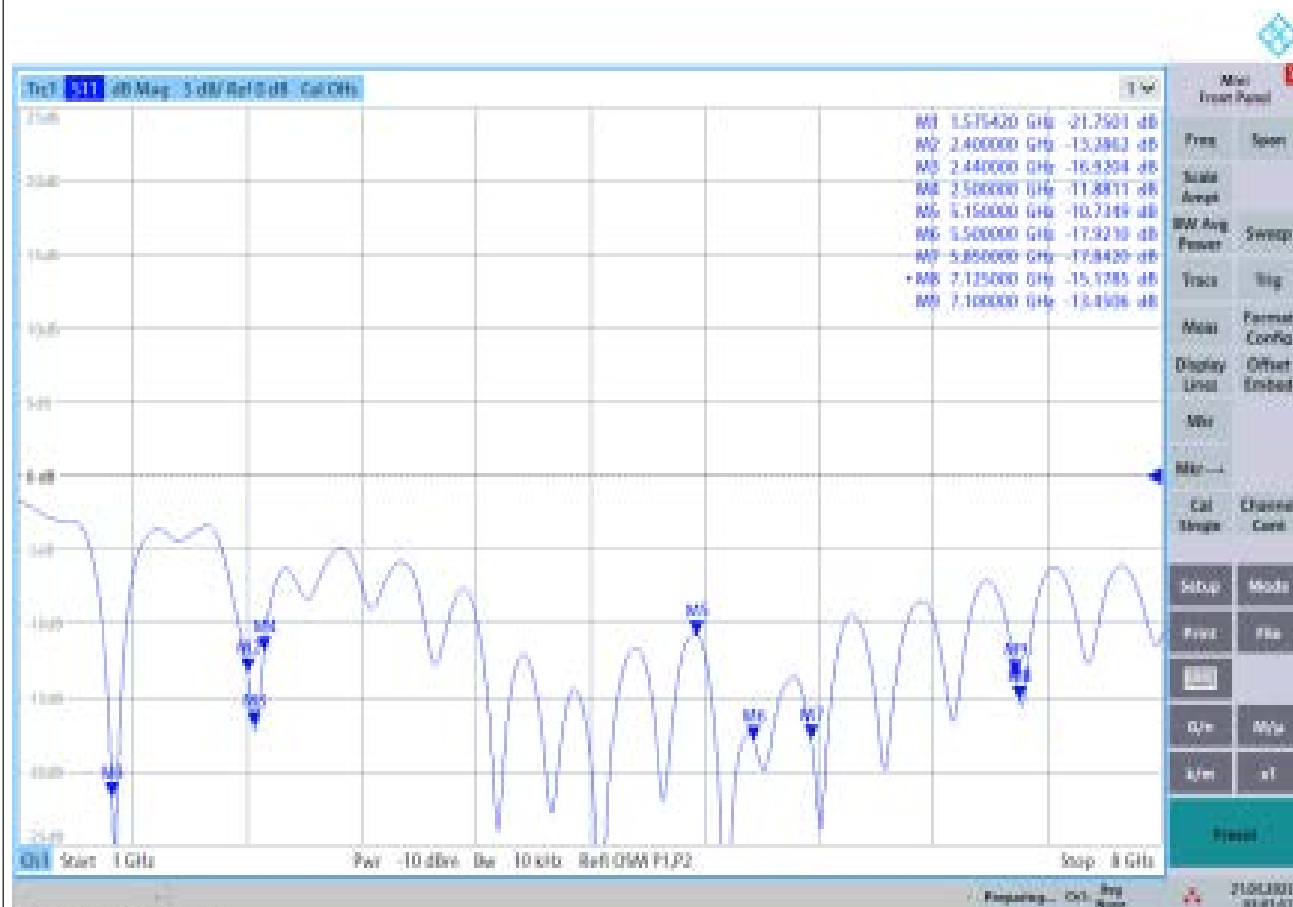
S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer

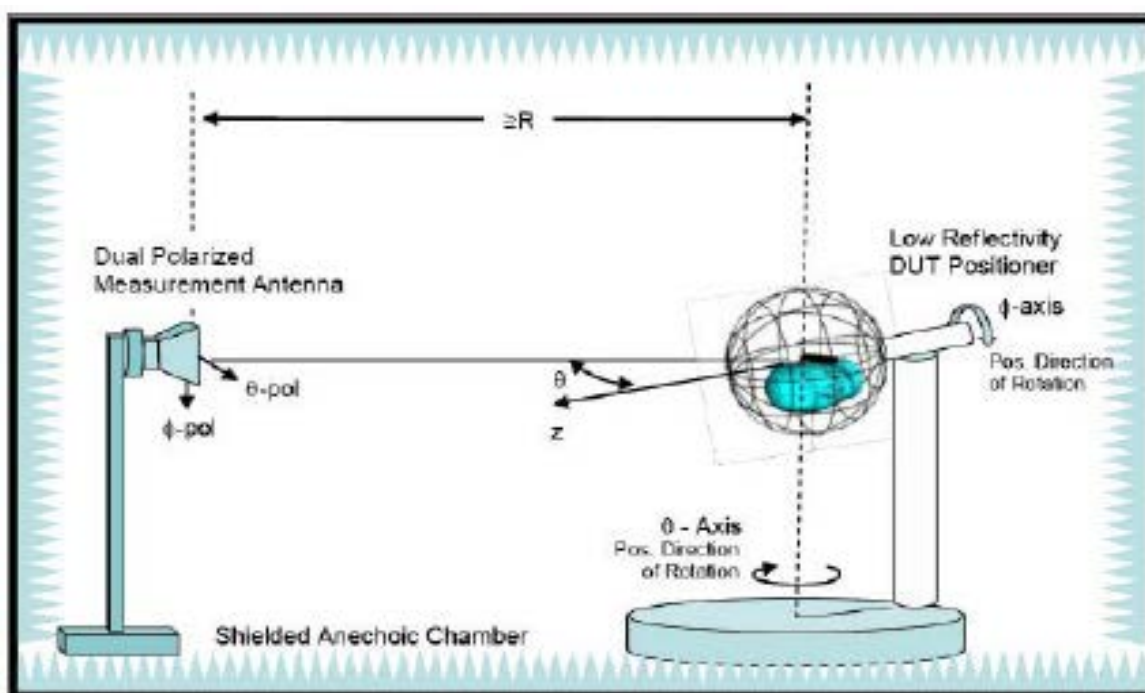
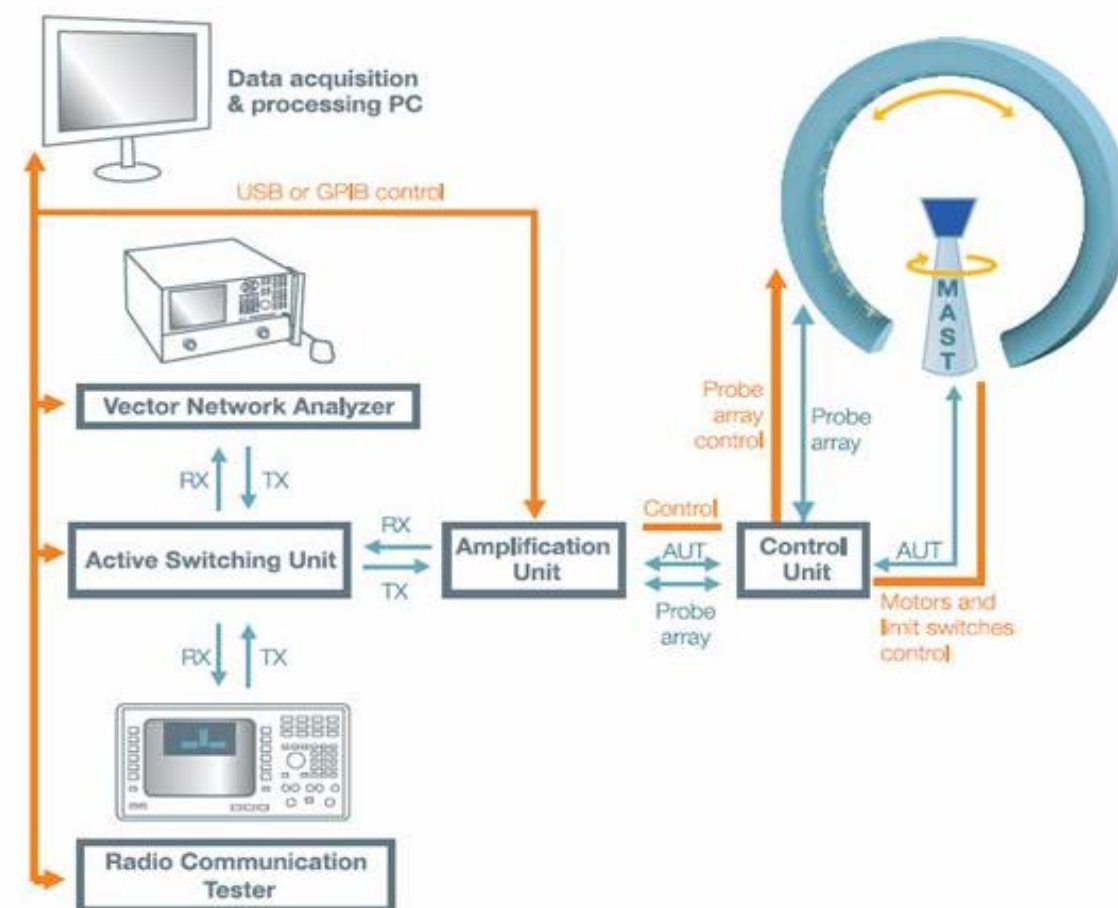


WiFi+GPS 回波损耗 Antenna (NO.1)



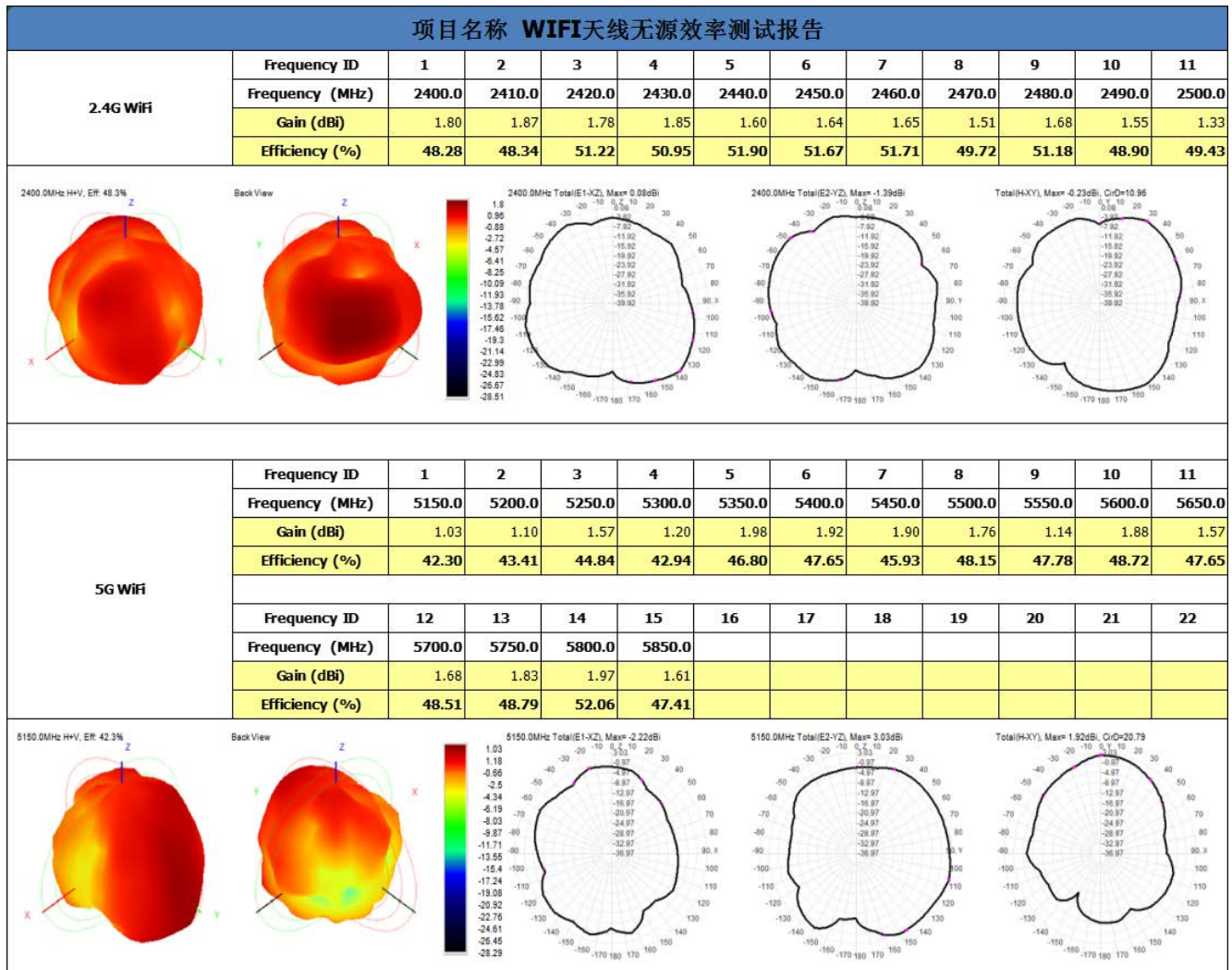
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测试设备 Test Setup



测试效率

Test Efficiency





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OTA

Operating Band	Bandwidth	Free Space Requirements		Channal	Testing Results		Gap	
		TRP	TIS		TRP	TIS (LCD ON)	TRP	TIS (LCD ON)
WIFI-MAIN 2.4G	11b 11Mbps	12	-80	1	12.38	-80.92	0.4	0.9
		12	-80	7	12.59	-80.73	0.6	0.7
		12	-80	11	12.32	-80.56	0.3	0.6
		12.0	-80	Avg	12.4	-80.7	0.4	0.7
WIFI-MAIN 5G	11a 6Mbps	10	-86	36	12.11	-92.28	2.1	6.3
		10	-86	100	11.43	-91.12	1.4	5.1
		10	-86	157	10.65	-88.37	0.7	2.4
		10.0	-86.0	Avg	11.4	-90.6	1.4	4.6

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