



东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO.,LTD

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X3

品 名 / 规格 :

SPECIFICATION

2.4~2.5/5.15~7.15GHz

BT AntennaL=390mm(Ø1.13+MHF)

单重:

weight

供 方 料 号 :

SUP PART NO

SLEingB246810390

日 期 :

DATE

2024.09.11

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
Jongrei	HZH	JDM	LSY	Xiang

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

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DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

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正本由承办单位保存

[illegible]



承认书项目表 (Spec Item)

序号 (NO.)	项目 (Project)	备注 (Remark)	页码 (Page)
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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.



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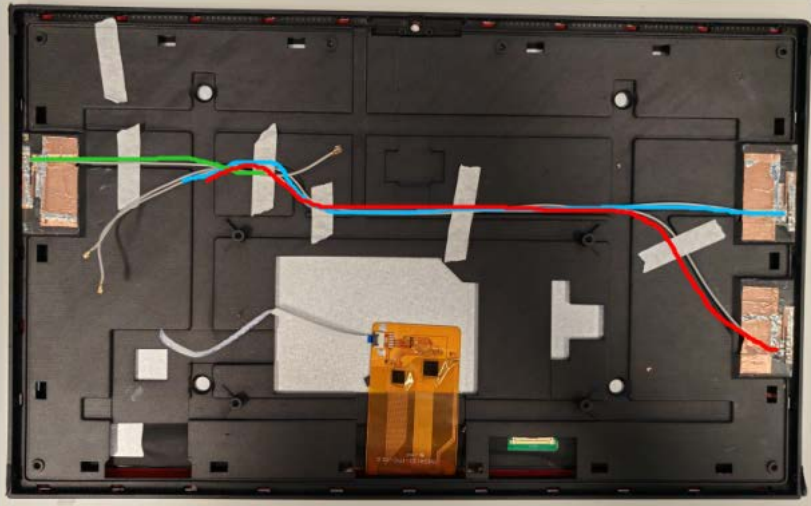
电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4~2.5/5.15~7.15GHz(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 1.13mm Dark Grey
Operating Temp.	-40~+85 °C
Storage Temp.	-5~+30 °C

天线组装图

Antenna Profile

<i>Device</i>	5、天线走线 天线走线具体如图所示。将天线固定好，装上主板，将天线端子扣在端口上 WiFi_0 天线如图中 蓝线 所示，天线线长 355mm，直径 1.13mm，1 代端子 (黑色同轴线) WiFi_1 天线如图中 绿线 所示，天线线长 155mm，直径 1.13mm，1 代端子 (白色同轴线)。 BT 天线如图中 红线 所示，天线线长 390mm，直径 1.13mm，1 代端子 (灰色同轴线)。 
<i>Antenna</i>	4、粘贴 BT 天线 粘贴 WiFi_1 天线细节如下图所示。将 BT 天线顶部及左右侧分别与支架的顶部及左右侧对齐，最后将天线由上往下依次粘贴即可。注意：天线粘贴时，天线不能粘偏、歪斜、起翘。 

S 参数测试

S Parameter Test

Agilent E5071C Network Analyzer



BT 驻波 Antenna (NO.1)



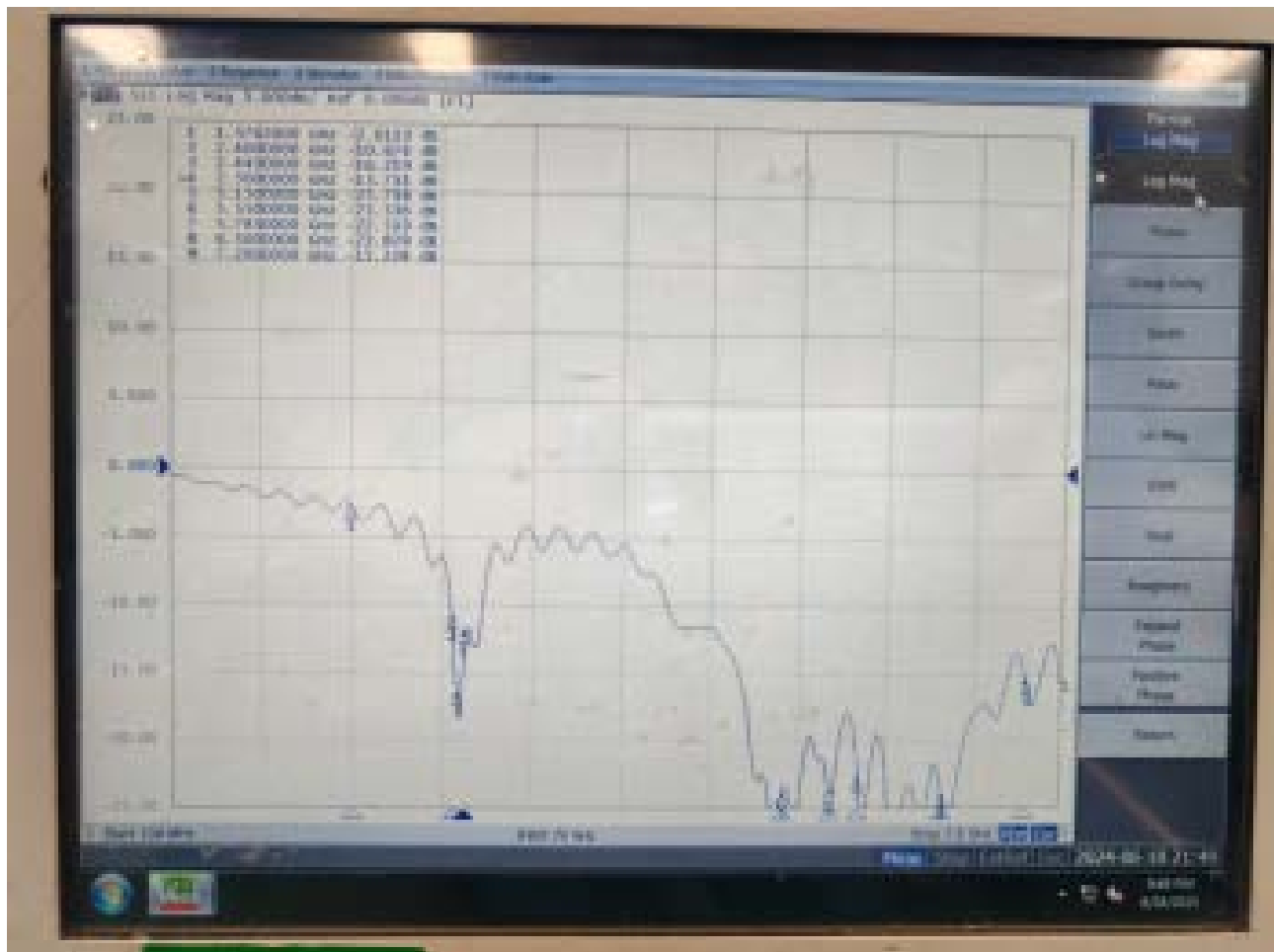
S 参数测试

S ParameterTest

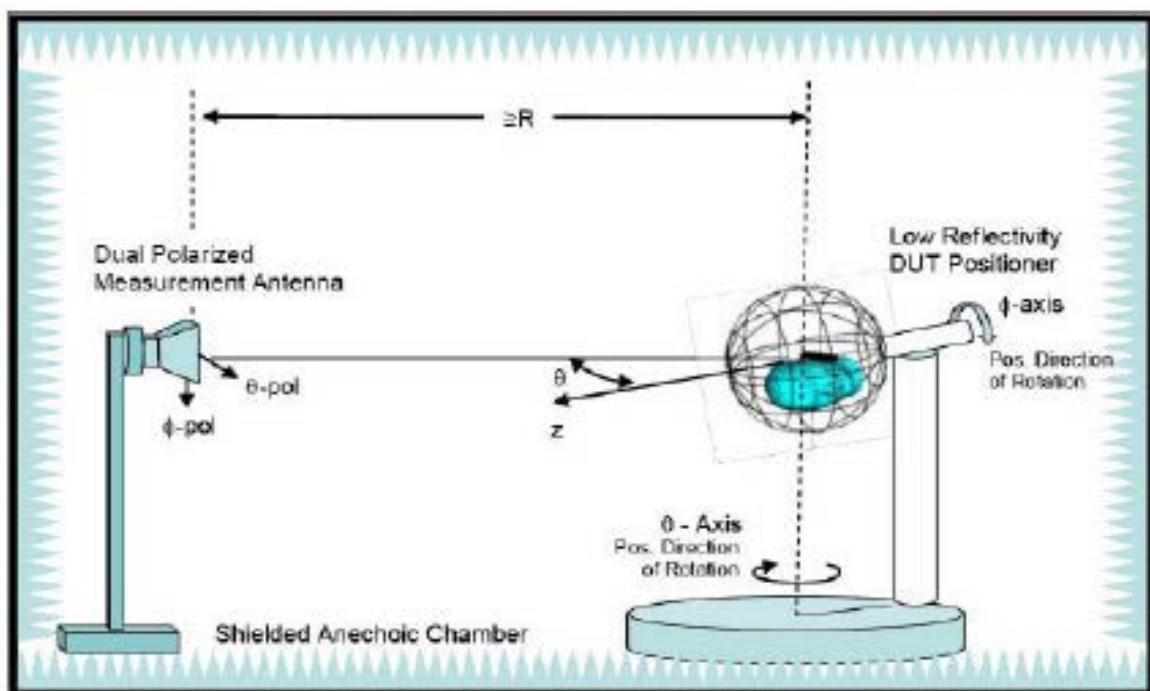
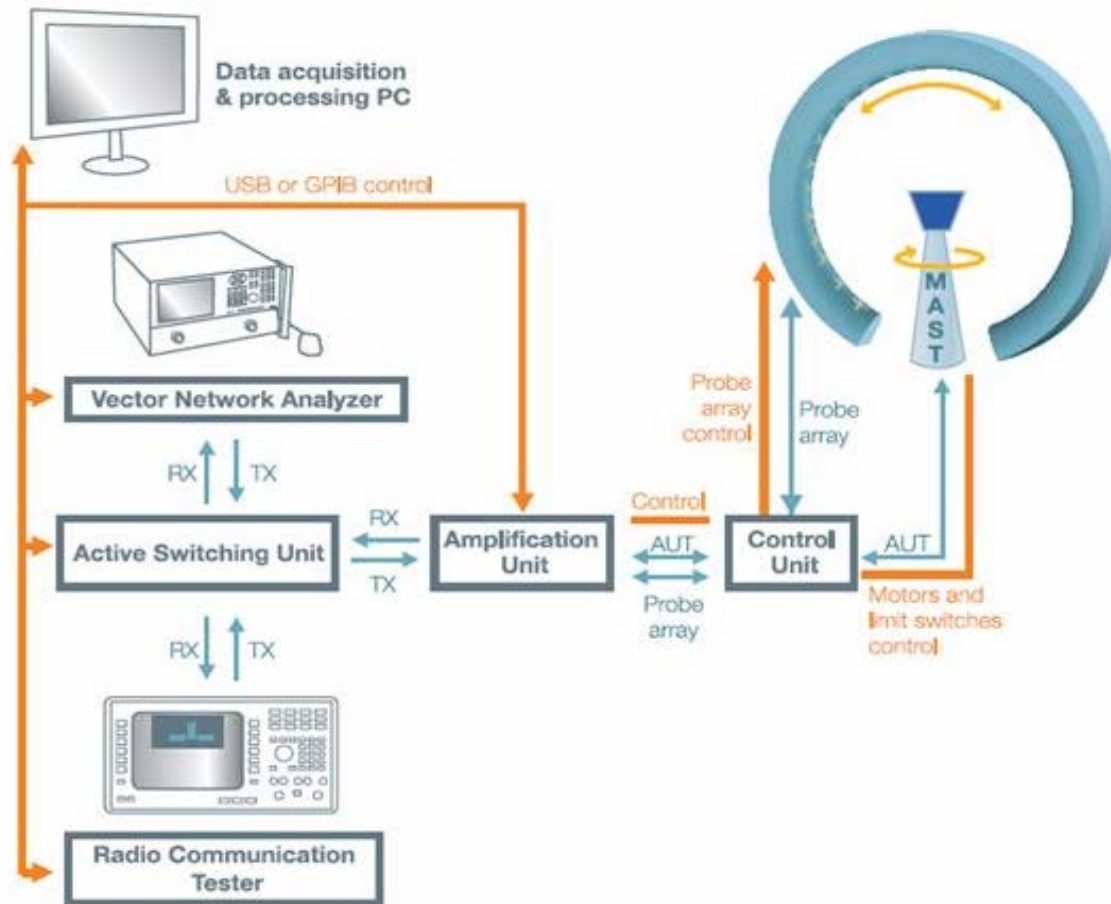
Agilent E5071C Network Analyzer



BT 回波损耗 Antenna (NO.1)

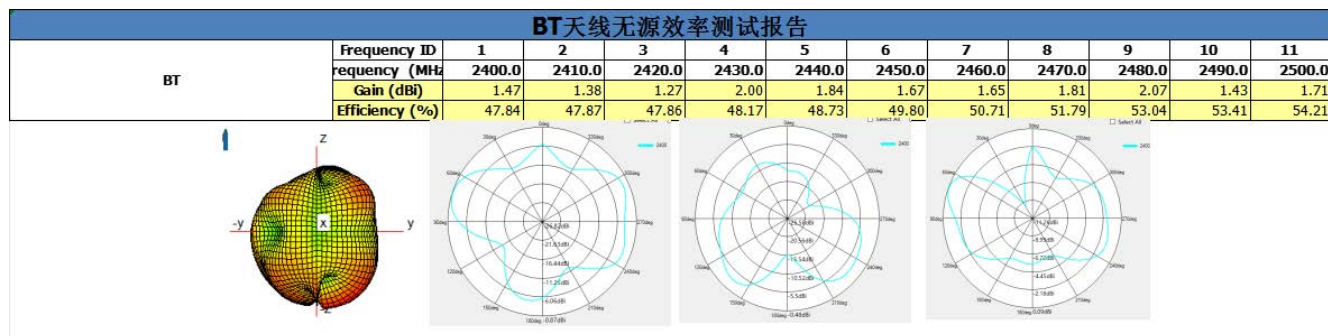


测试设备 Test Setup



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)
BT	BDR	2	-83	0	2.7	-85.9	0.7	2.9
		2	-83	39	2.1	-87.2	0.1	4.2
		2	-83	78	2.2	-86.9	0.2	3.9
		2.0	-83	Avg	2.3	-86.7	0.3	3.7

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