



承 认 书

APPROVAL SHEET

客户名称 Customer Name TCL

产品型号 Product Model PB OTG 2

客户料号 Customer P/N

规格描述 Specifications MIC ANT

南斗星料号 Southstar P/N 3. N204. 0454

制作日期 Production date 2025. 5. 8

制作版本 Revision 5. 0

南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

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承认书变更履历

Confirmation of Change of Resume

版本 version	日期 date	变更描述 Change description	备注 notes
1.0	2025.1.14	初版 First edition	
2.0	2025.2.21	优化天线 Optimize antenna	
3.0	2025.3.12	更改线长 Change line length	客户需求 customer demand
4.0	2025.4.14	优化天线 Optimize antenna	
5.0	2025.5.8	更改线长 Change line length	客户需求 customer demand



目 录

Index

一、封面 (Cover)	1
二、版本记录 (Colophon)	2
三、目录 (Index)	3
四、基本参数 (The basic parameters)	4
五、工程图纸 (Product Drawing)	5
六、测试设备 (Test Equipment & Conditions)	6
七、测试报告 (Test Report)	7-9
八、天线装配 (Antenna assembly)	9
九、包装方式 (Packing method)	10

基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz
VSWR 电压驻波比	< 2
AVG. Efficiency 效率	>50%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2.15dBi
Antenna type 天线类型	PIFA
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	FPC Black
射频线类型 Cable Type	1.13mm White
接头类型 Connector Type	1 代
C. 环境 Environmental	
工作温度 Operation Temperature	- 30° C ~ + 65° C
存放温度 Storage Temperature	- 40° C ~ + 70° C

测试设备 (Test Equipment & Conditions)

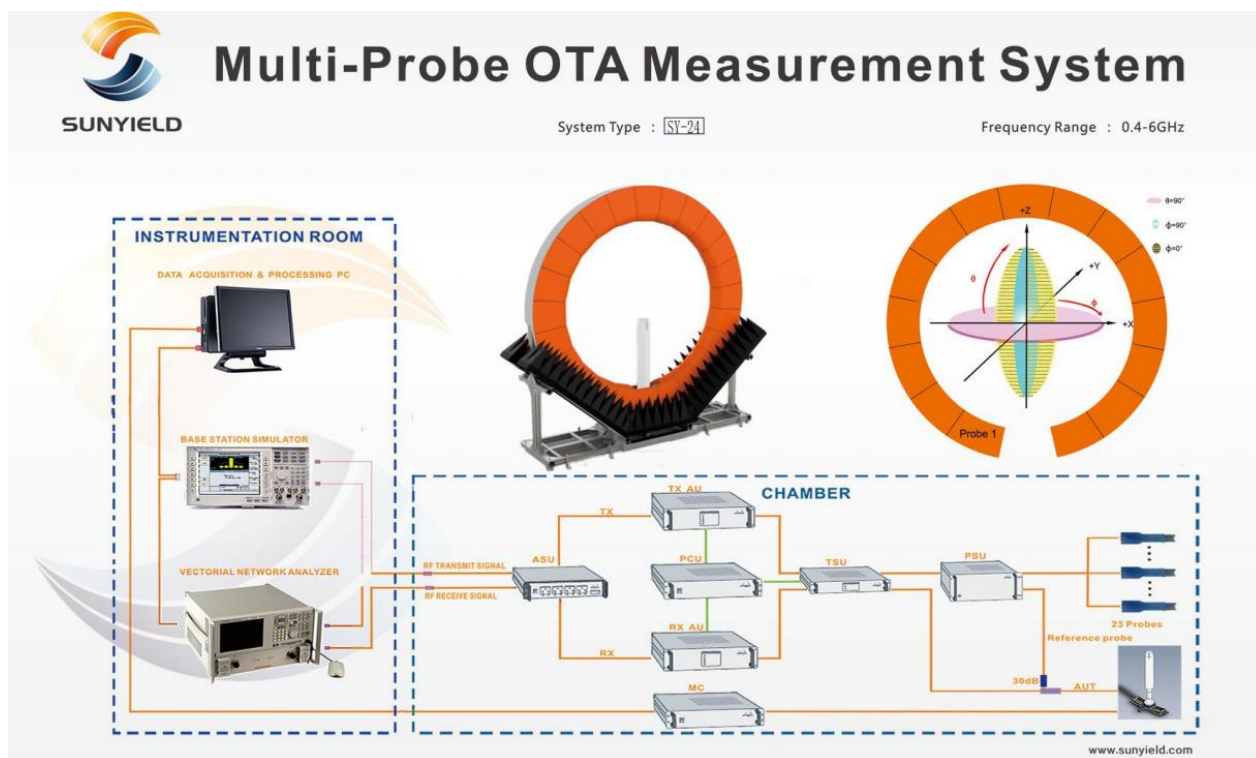
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

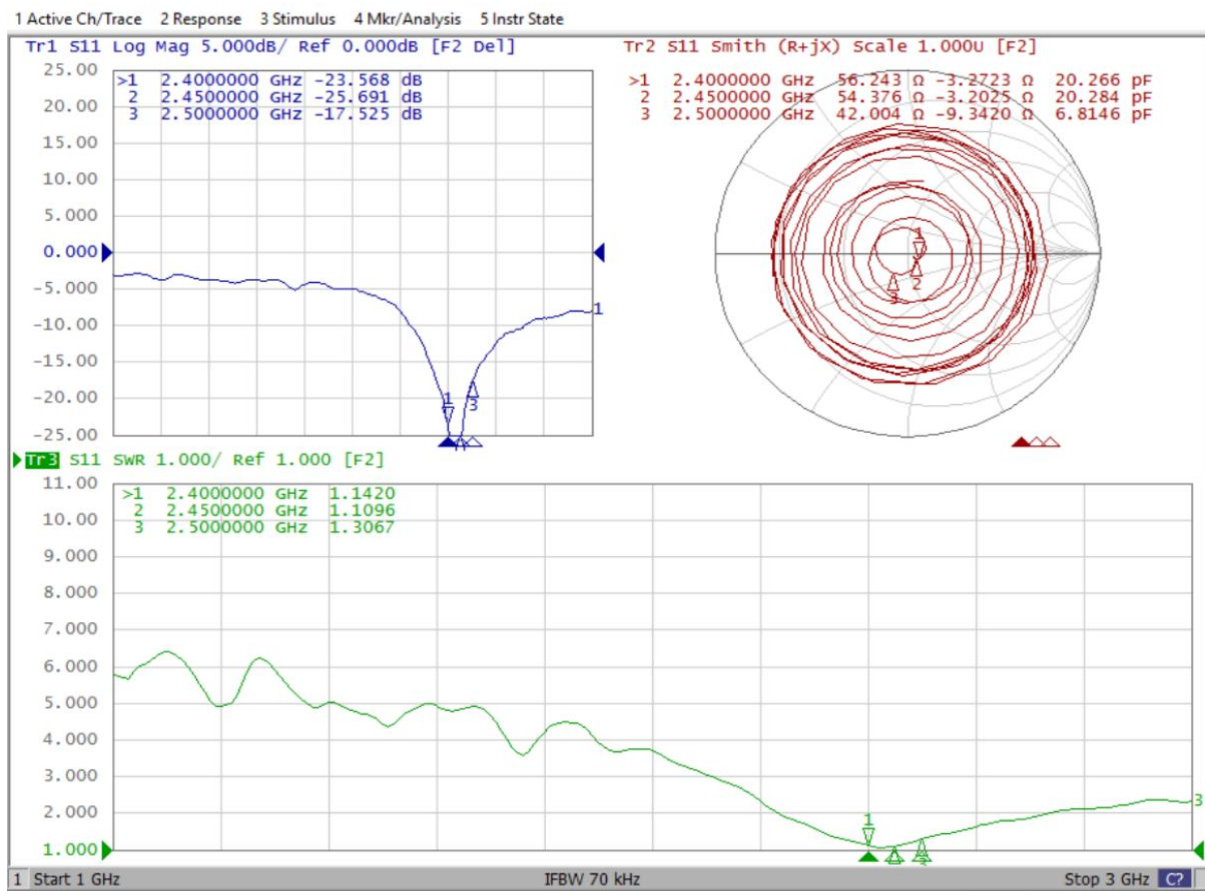
2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



天线阻抗Antenna Impedance: S11



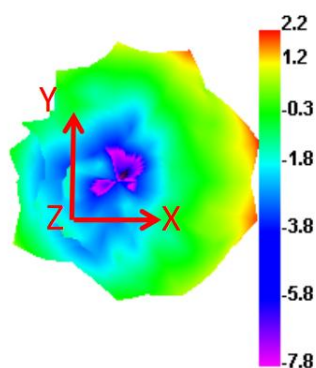
效率&增益Efficiency & Gain:

Freq (MHz)	Effi (%)	Peak Gain (dBi)
2400	54.28	2.15
2410	54.02	2.05
2420	53.64	1.86
2430	53.17	1.87
2440	52.29	1.82
2450	52.96	1.71
2460	52.18	1.94
2470	52.19	1.95
2480	51.31	1.86
2490	51.09	1.83
2500	50.41	1.92

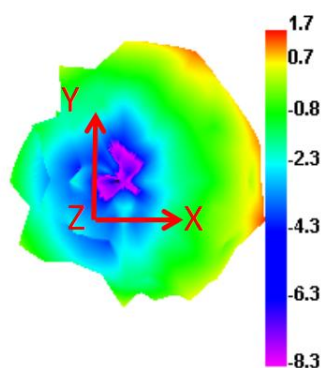
avg. 52.50

天线3D&2D方向图Antenna 3D & 2D pattern:

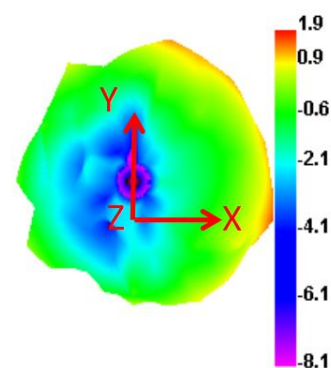
2400.000MHz



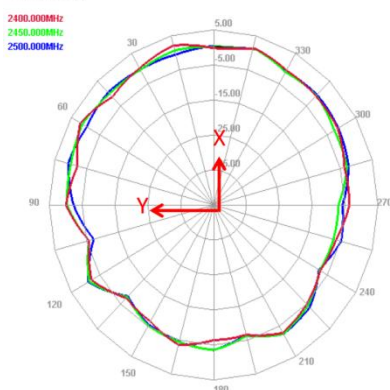
2450.000MHz



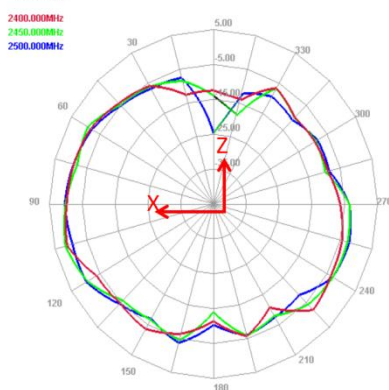
2500.000MHz



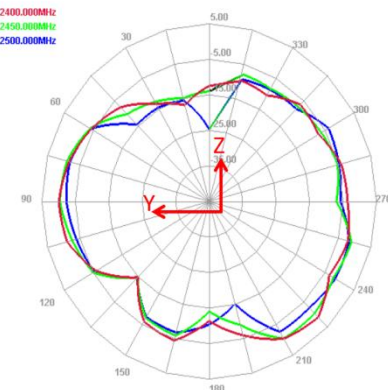
Horizontal



E1 Face



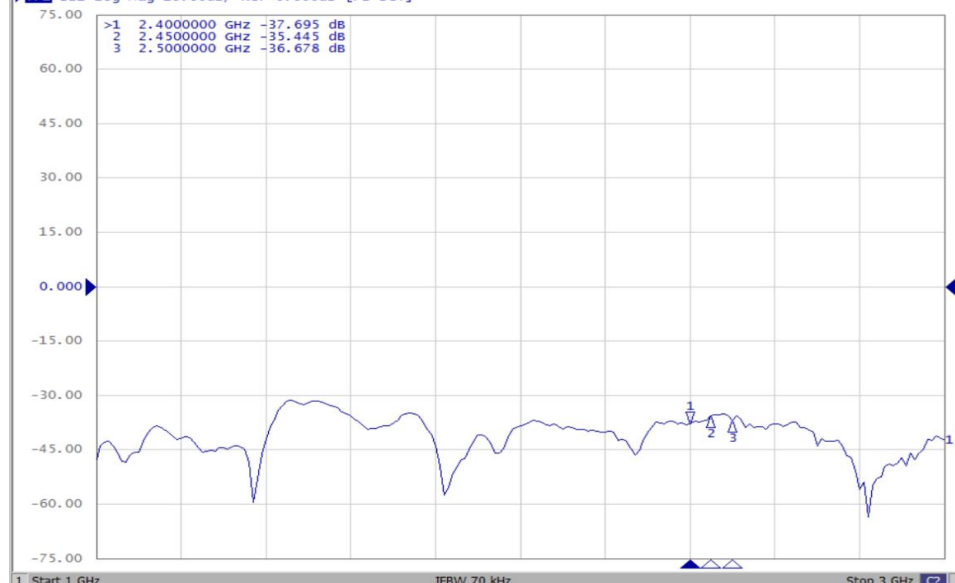
E2 Face



隔离度Isolation:

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

1 S21 Log Mag 15.00dB/ Ref 0.000dB [F2 Del]

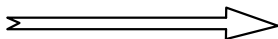


频率 (MHz)	S21(dB)
2400	-37
2450	-35
2500	-36

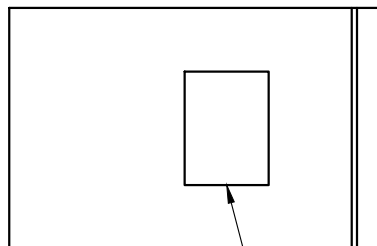
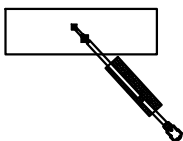


成品名称： PB OTG 2 MIC天线	版本： A
	客户：

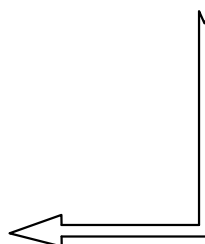
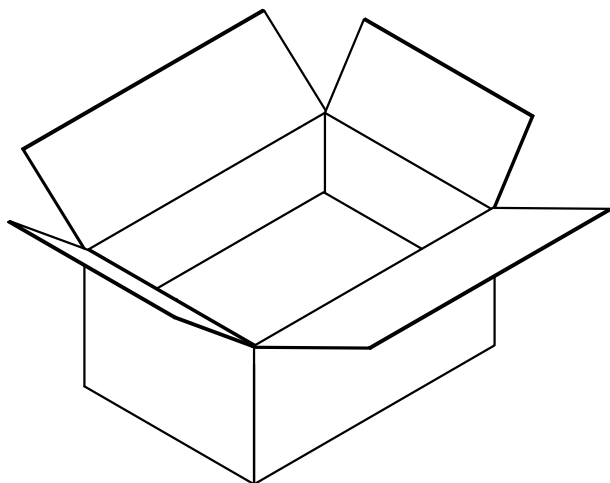
一： 成品天线



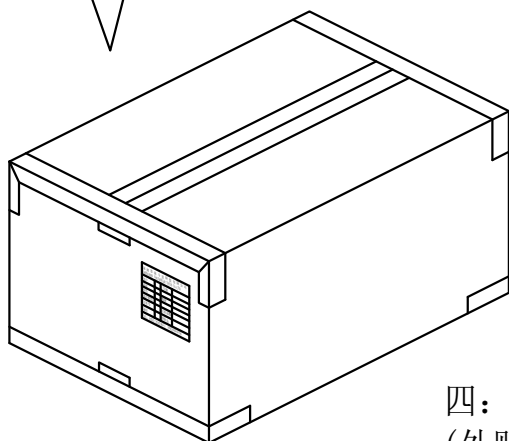
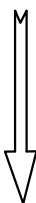
二： 装袋，每PE袋装10PCS产品.



标贴



三： 装箱 (以实际包装为准)。



四： 封箱，外箱贴我司生产标签
(外贴RoHS、无铅等标识)。