

Antenna Test Report



Customer	尊特
Project	M172C
Antenna Revision	A0
Prepared by	
Checked by	15085930310
Date :	2025. 04. 17

Purpose

This report is to measure the performance of antenna for [M172C](#). The antenna operating frequency at 2400Mhz-2500Mhz test data are showed as below.

Content

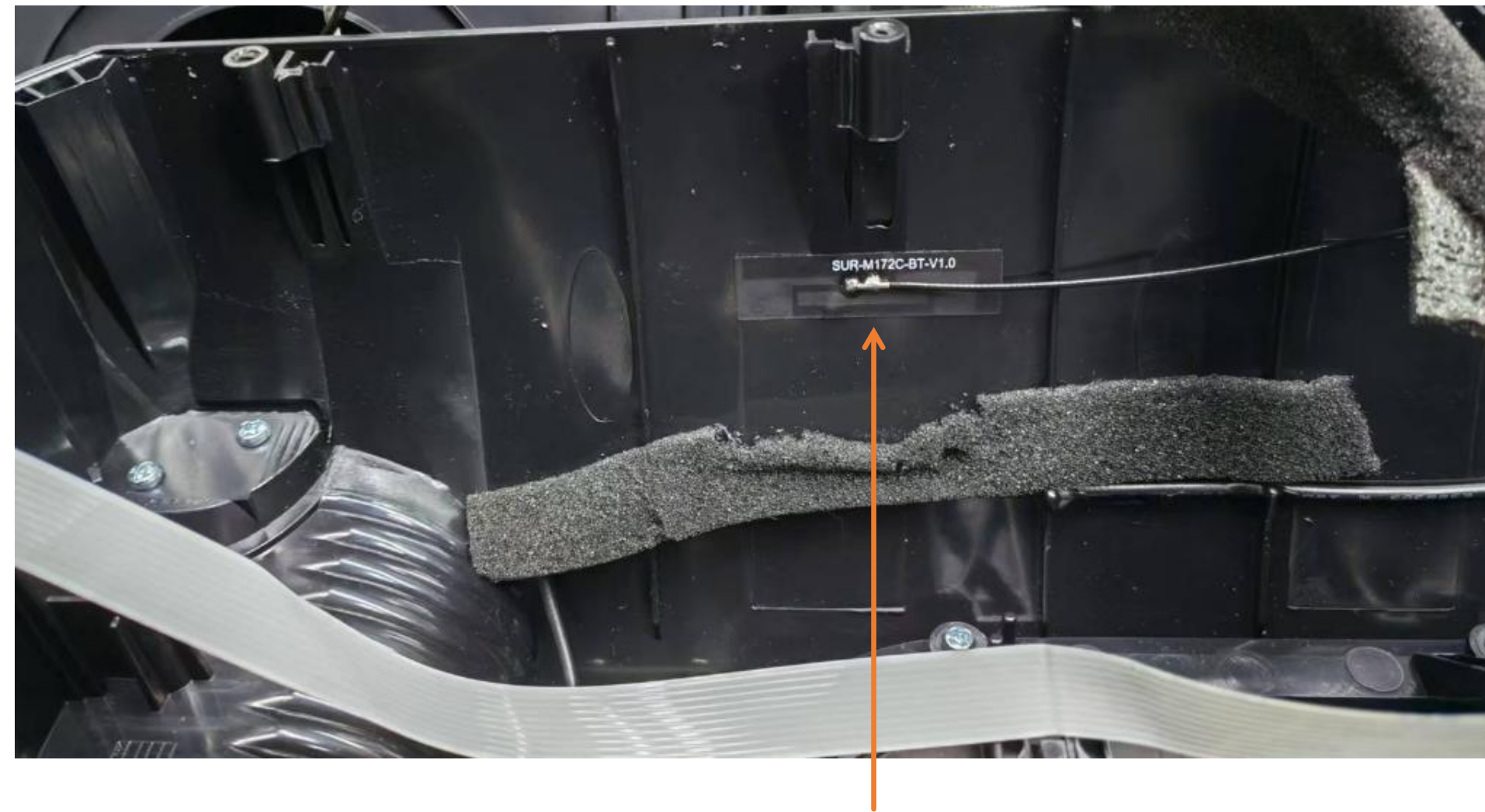
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter- VSWR**
 - 4.2 Gain & Efficiency**
 - 4.3 2D Pattern**

1. Product Overview & Dimension



样机图片

1. Product Overview & Dimension



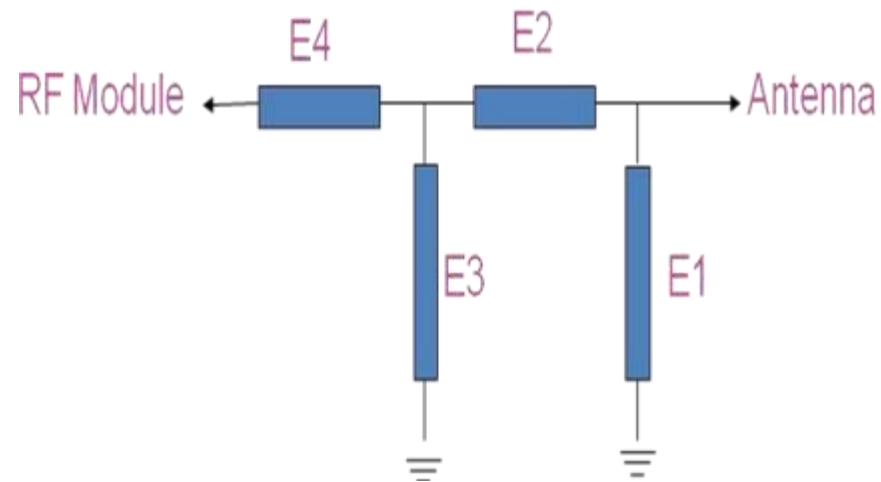
天线按上图位置装贴

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP& TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS& SATIMO
Gain & Efficiency	Gain & Efficiency	ETS& SATIMO Agilent 5071C



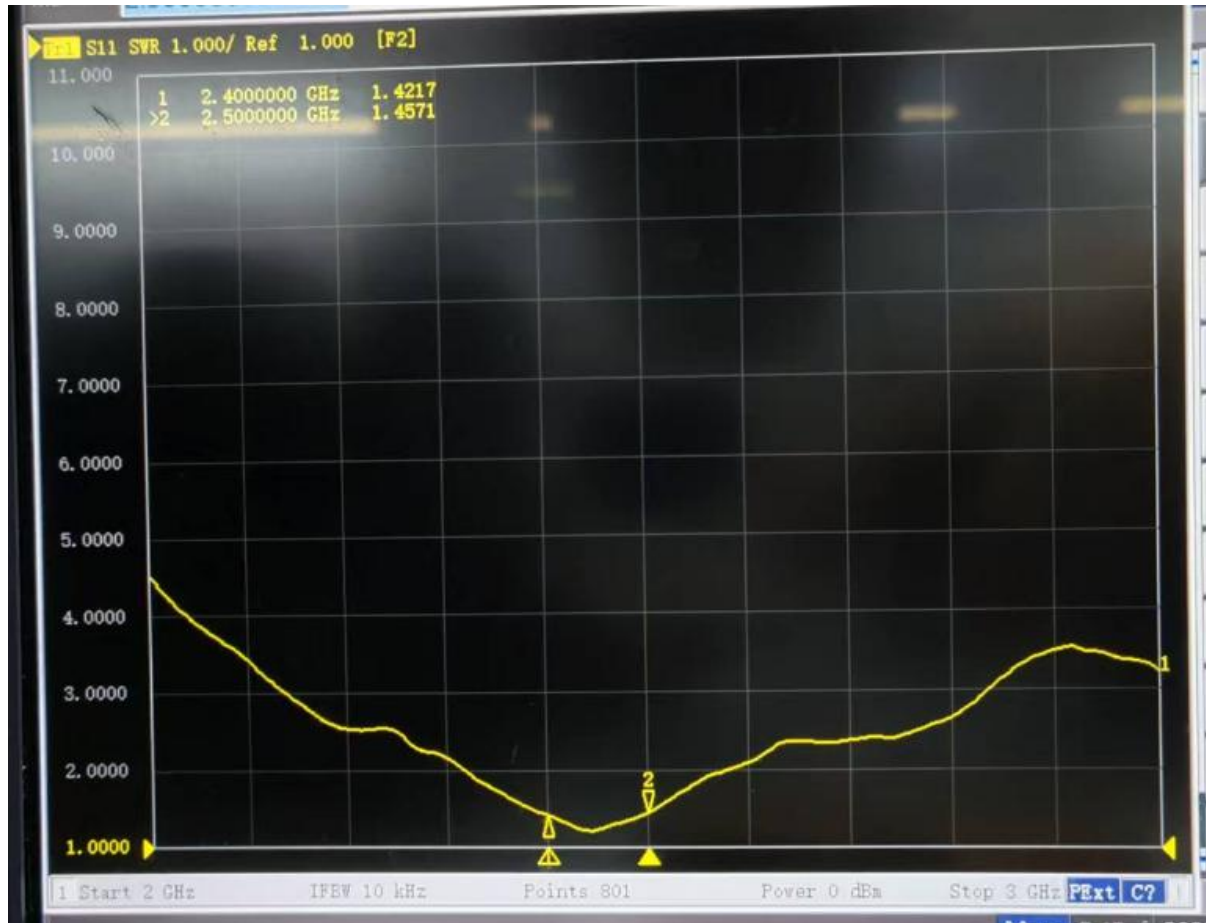
3. Antenna Matching Network



主板原始匹配未更改

4. Test Result

4.1 S11 Parameter-SWR-BT



Frequency	2400	2500
VSWR	1.42	1.45

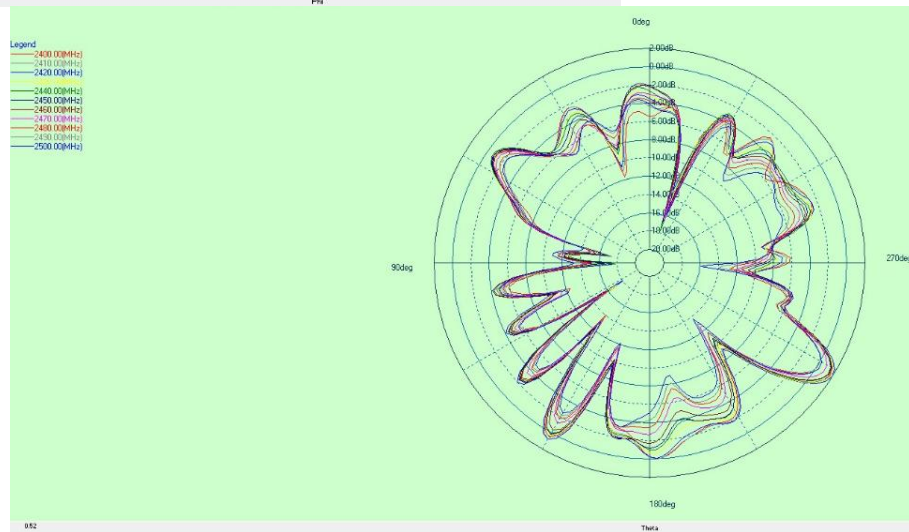
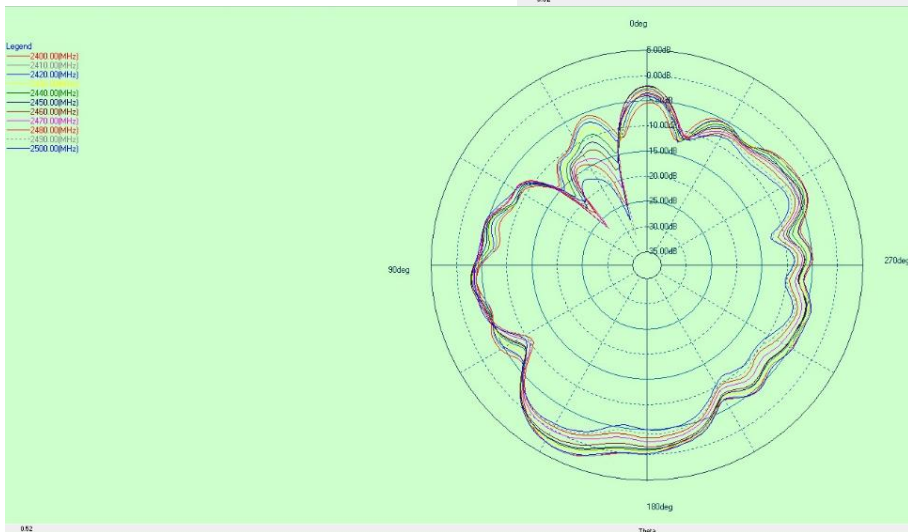
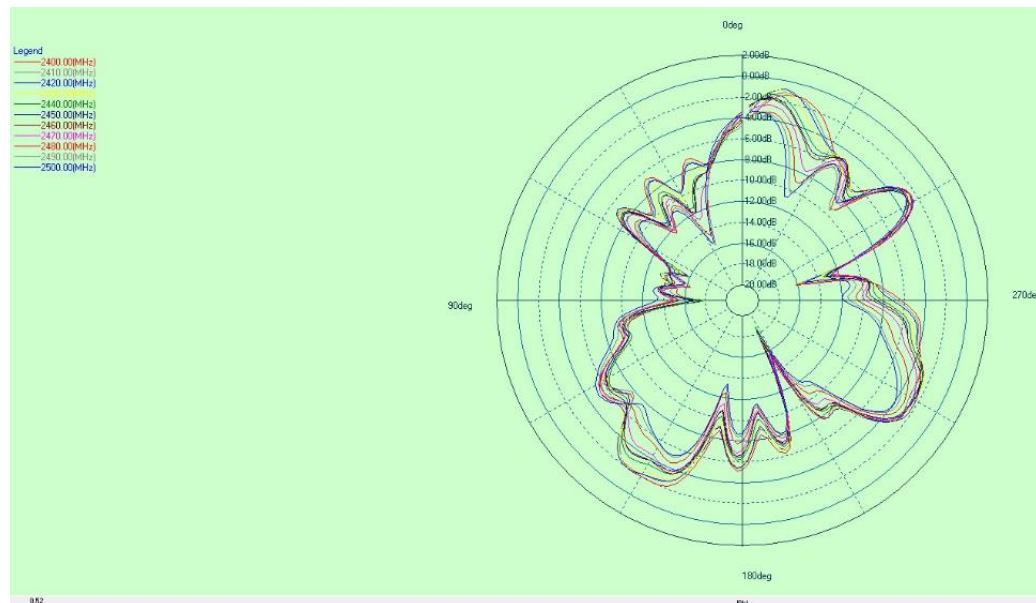
4 . Test Result

4.2 Gain & Efficiency——BT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	41. 72	2. 01
2420	42. 78	2. 21
2440	42. 91	2. 23
2450	42. 86	2. 39
2460	42. 38	2. 51
2480	42. 21	2. 60
2500	41. 05	2. 78

4. Test Result

4.3 2D Pattern-BT



5. Test Result---



楼顶实测距离20米

Thank you !