

# Antenna Test Report

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Project Name: W6

Author: 杨永成

Update: 2021-05-22

# 项目概况

## OverView

|                      |      |                                                                                                 |    |
|----------------------|------|-------------------------------------------------------------------------------------------------|----|
| CUSTOMER NAME        | 华创恒达 | PROJECT NAME                                                                                    | W6 |
| Items                |      | Details                                                                                         |    |
| • FREQUENCY          |      | 2400MHz-2500MHz                                                                                 |    |
| • Manufacturer's     |      | MOKO TECHNOLOGY Ltd                                                                             |    |
| • M/N:               |      | W6                                                                                              |    |
| • Address            |      | Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110 |    |
| • SENSITIVE ELEMENTS |      |                                                                                                 |    |
| • ANTENNA TYPE       |      |                                                                                                 |    |
| • PCB                |      |                                                                                                 |    |
| • OTHERS             |      |                                                                                                 |    |

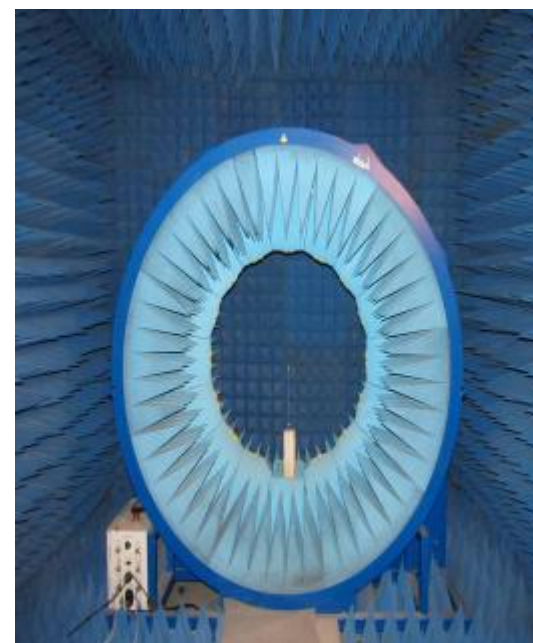
# 历史报告记录

## Revision History

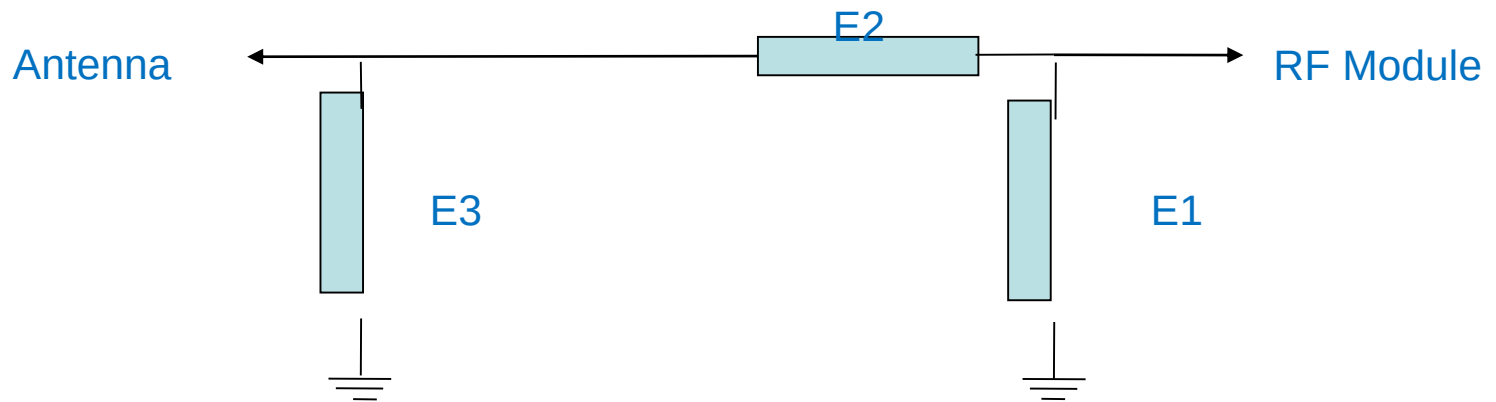
| 日期(Date)  | 版本<br>(Revision) | 负责人(Author) | 更改原因(Description of changes) |
|-----------|------------------|-------------|------------------------------|
| 202010520 | A                | 杨永成         | 天线无源测试报告                     |
| 20201022  | B                | 杨永成         | 新主板                          |
|           |                  |             |                              |
|           |                  |             |                              |
|           |                  |             |                              |
|           |                  |             |                              |
|           |                  |             |                              |

# Test Item & Equipment

| List           | Test Item                 | Equipment      |             |
|----------------|---------------------------|----------------|-------------|
| 1.S Parameter  | VSWR, Return Loss         | Agilent VNA    |             |
| 2.Active Test  | TRP, TIS                  | Agilent 8960   | RayZone1800 |
| 3.Passive Test | Gain, Efficiency, Pattern | Agilent E5071C |             |



# Matching Circuit



| Element  | Value |
|----------|-------|
| E1(0402) | NC    |
| E2(0402) | 0Ω    |
| E3(0402) | NC    |
|          |       |

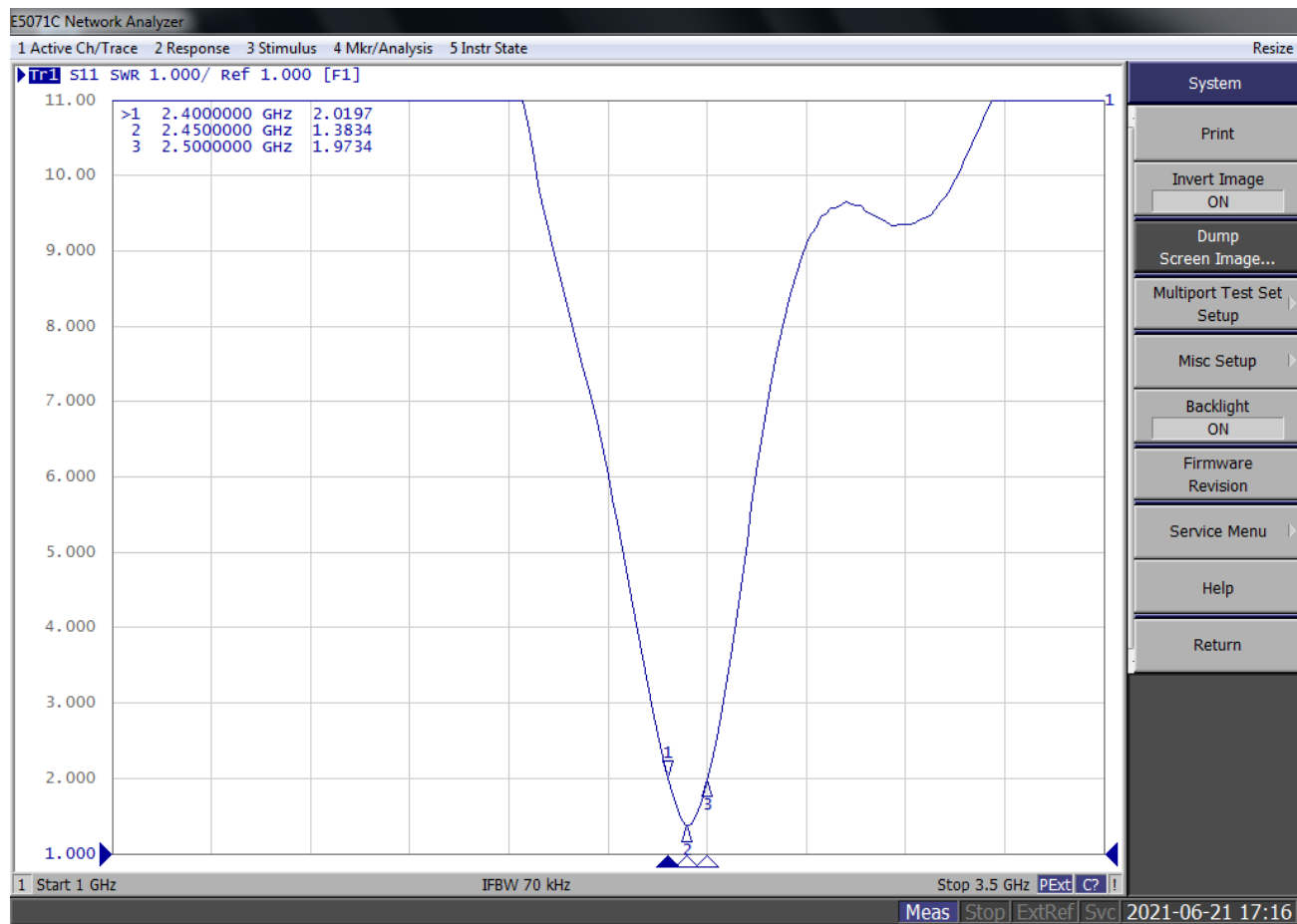
2021/6/22

# 天线



2021/6/22

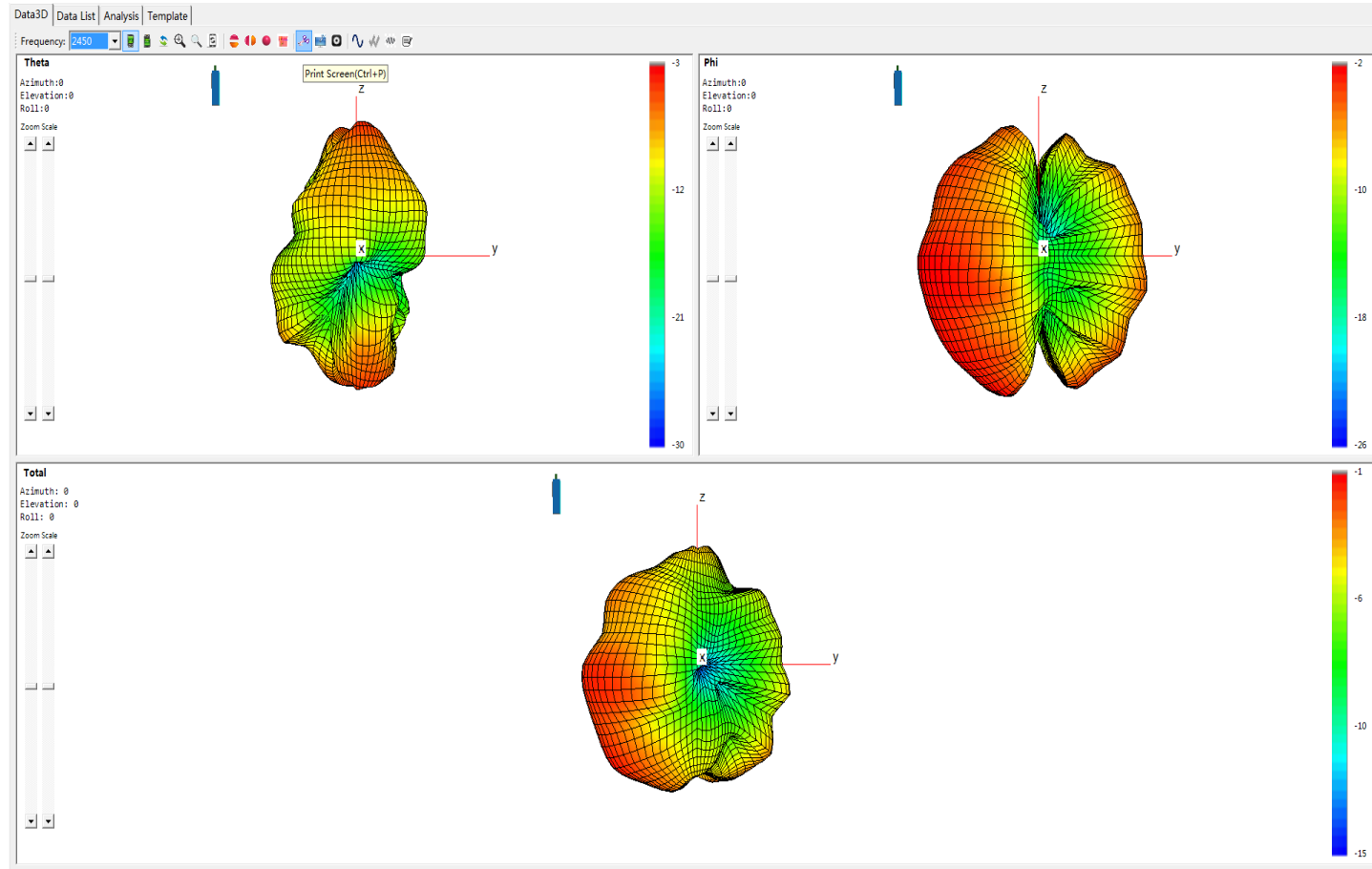
# VSWR



## PASSIVE TEST（天线效率及增益）

| Freq<br>(Mhz) | Gain<br>(dB) | Effi<br>(%) |
|---------------|--------------|-------------|
| 2400          | -1.24        | 28.75       |
| 2410          | -1.15        | 31.57       |
| 2420          | -1.25        | 31.72       |
| 2430          | -1.14        | 31.83       |
| 2440          | -1.11        | 31.47       |
| 2450          | -1.16        | 31.21       |
| 2460          | -1.16        | 32.08       |
| 2470          | -0.88        | 33.20       |
| 2480          | -0.52        | 33.11       |
| 2490          | -0.47        | 32.86       |
| 2500          | -0.59        | 33.15       |

## 3D Antenna Radiation Pattern (2450MHz)



## 2D Antenna Radiation Pattern ( 2450MHz )

