

# Antenna

# **YP0009AA** Datasheet

OC: YP0009AA



Build a Smarter World

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# About the Document

## Revision History

Version	Date	Author	Note
1.0	2020-11-26	Toby WANG	Initial

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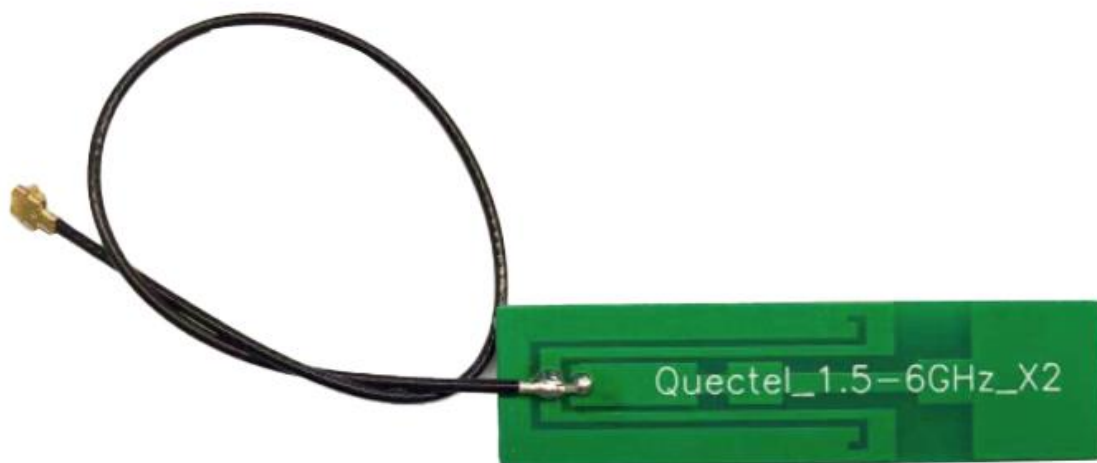
## 1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

## 2 Product Features

- 1.5\_6G\_Antenna
- High efficiency
- Excellent performance



### 3 Product Specifications

#### Passive Electrical Specifications

Frequency Range	1500–6000 MHz
Input Impedence	50 $\Omega$
VSWR	$\leq 3.0$
Gain	$\leq 4.42$ dBi
Polarization Type	Linear

#### Mechanical Specifications

Antenna Size	49 mm × 13 mm × 0.85 mm
Casing	FR4
Radiator	Cu
Connector Type	MHF_4
Working Temperature	-20 °C to +85 °C
Radome Color	Green

## 4 Overall Performance

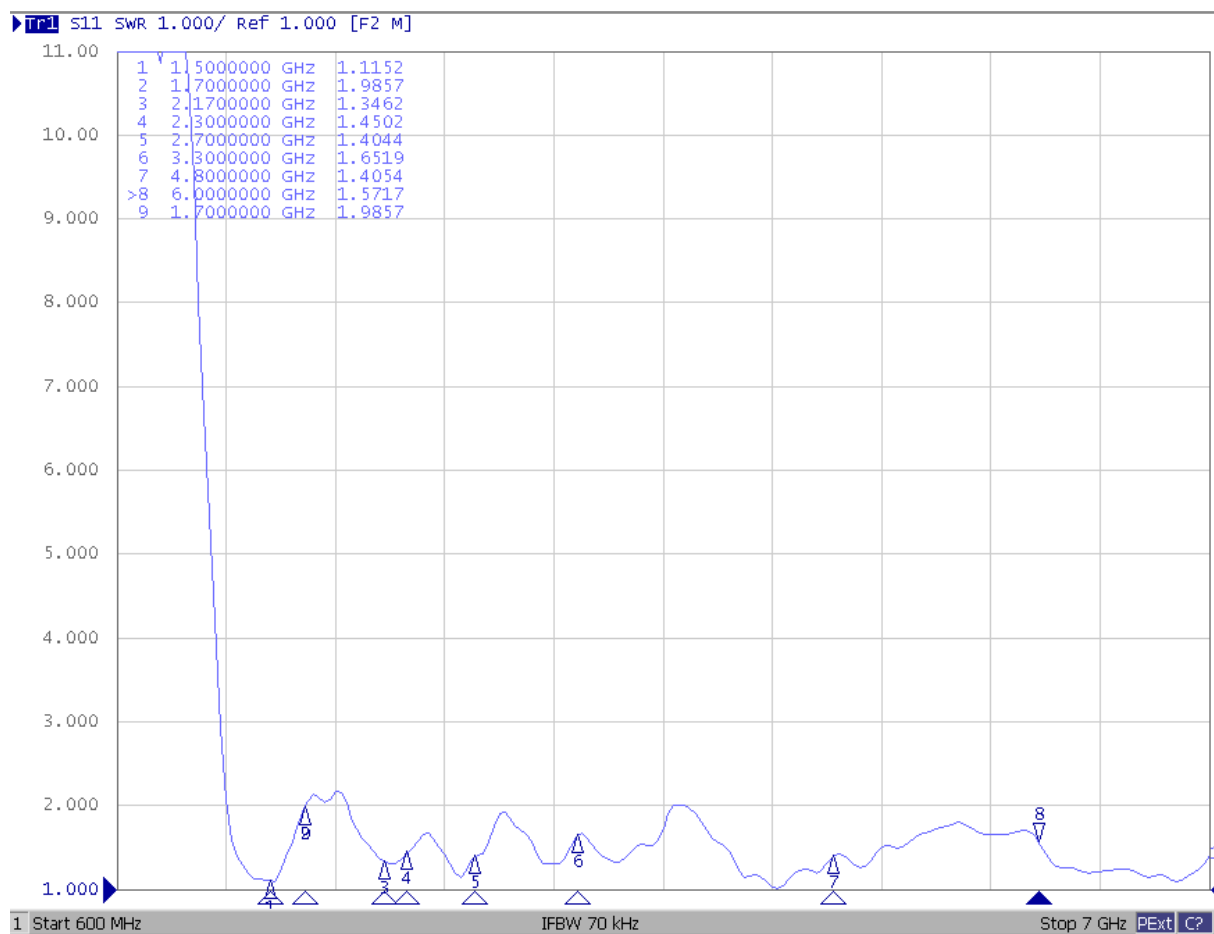
### 4.1. Test Environment

- KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 6.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 6.0 GHz.



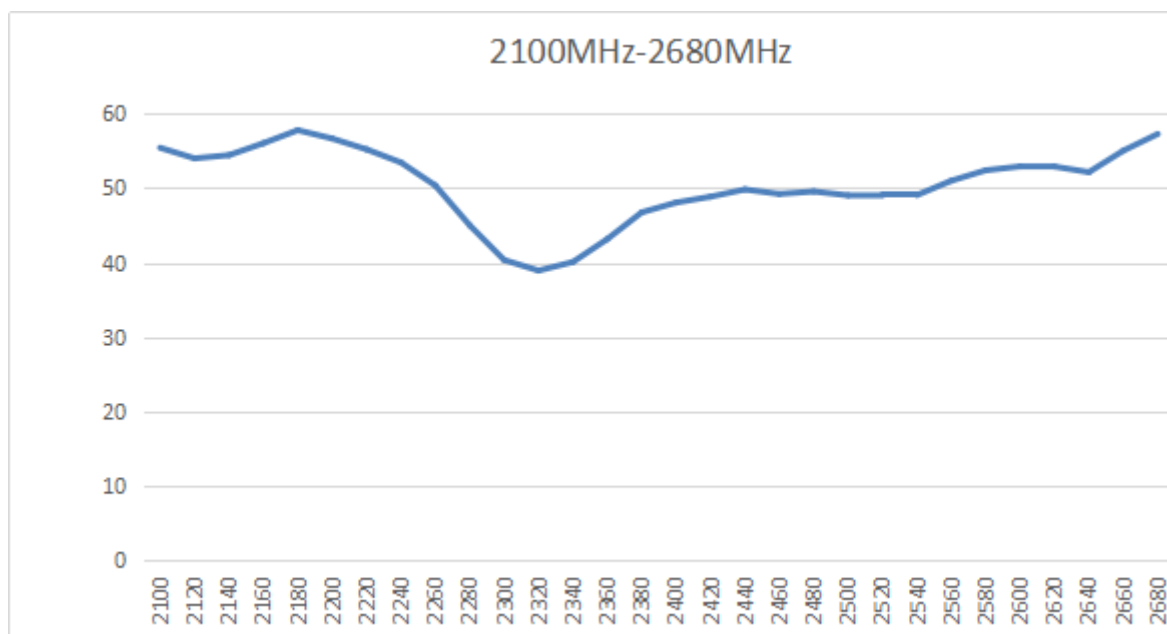
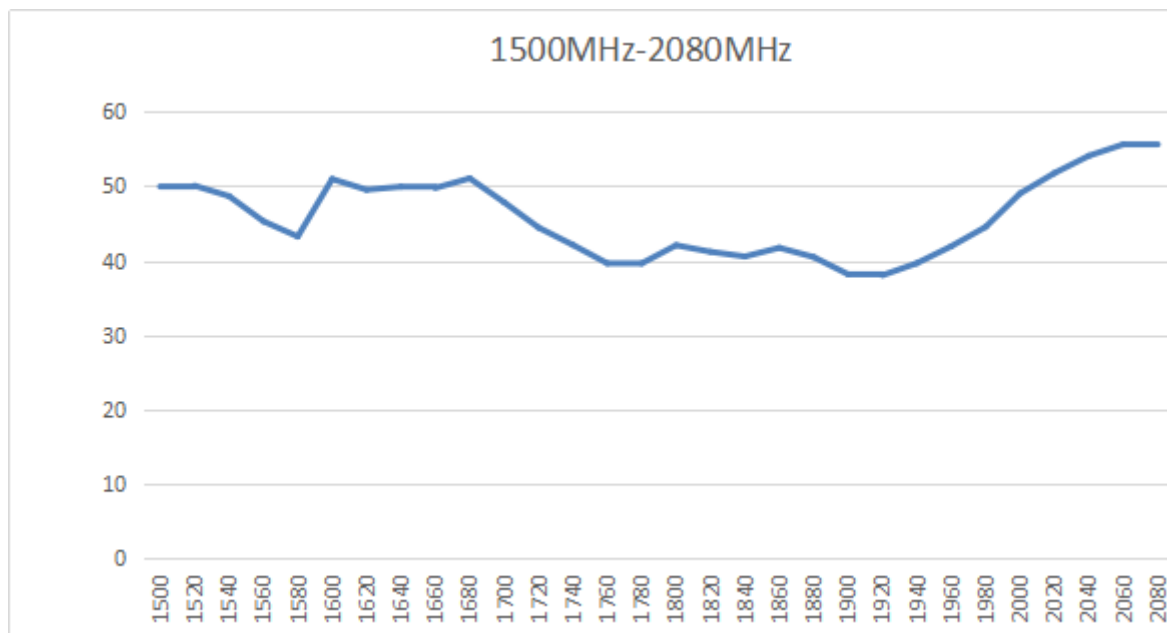


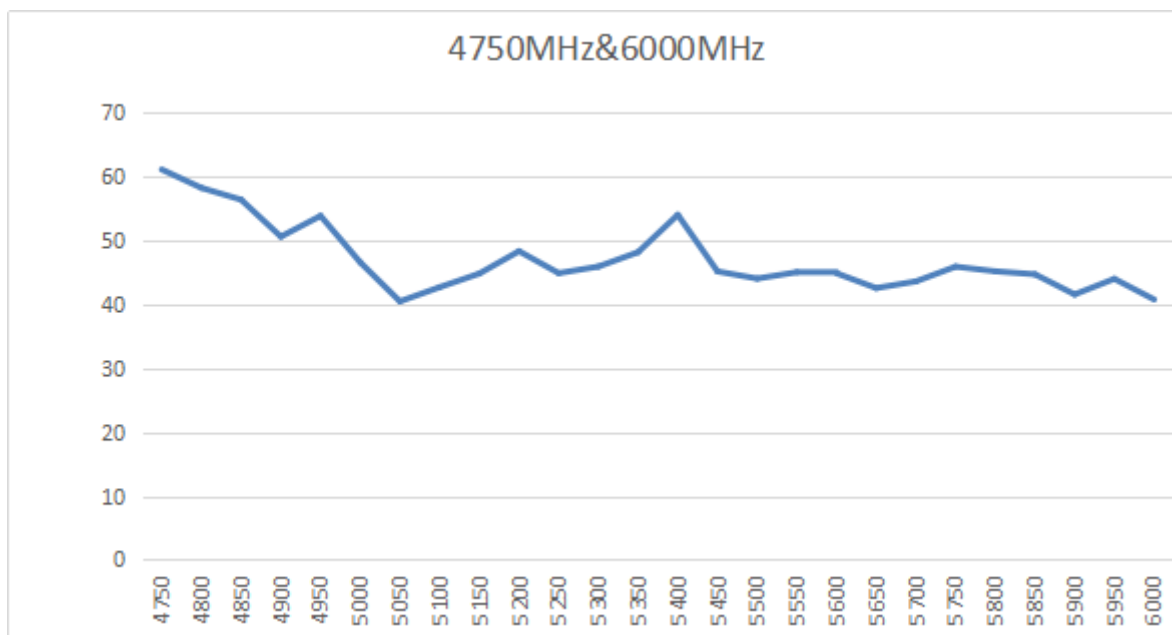
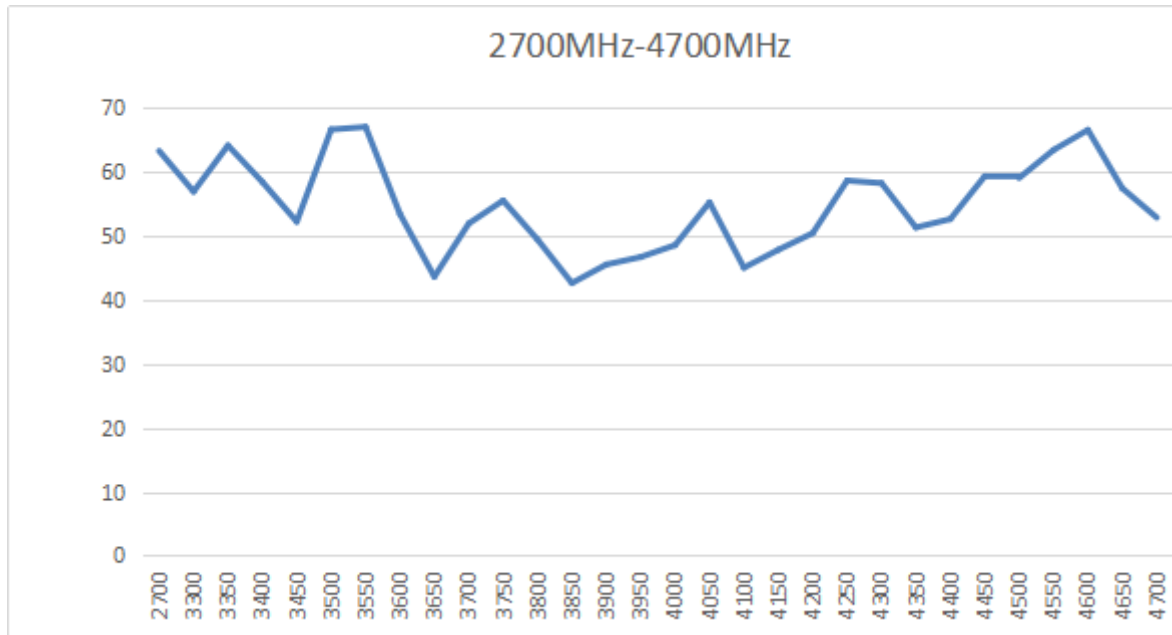
## 4.2. VSWR



Frequency (MHz)	1500	1700	2170	2300	2700	3300	4800	6000
VSWR	1.12	1.99	1.35	1.45	1.40	1.65	1.41	1.57

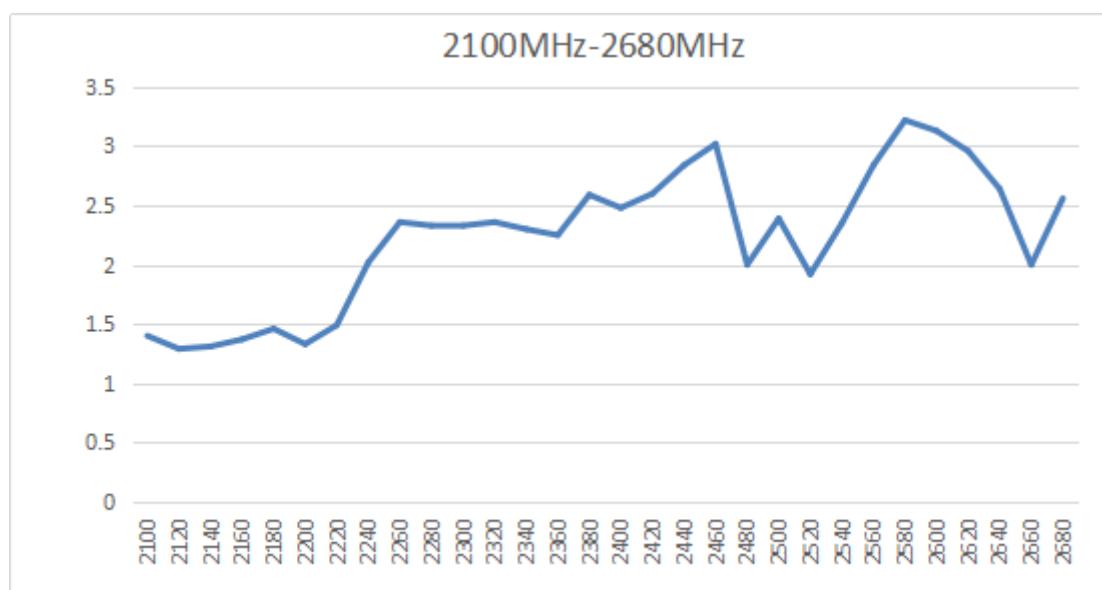
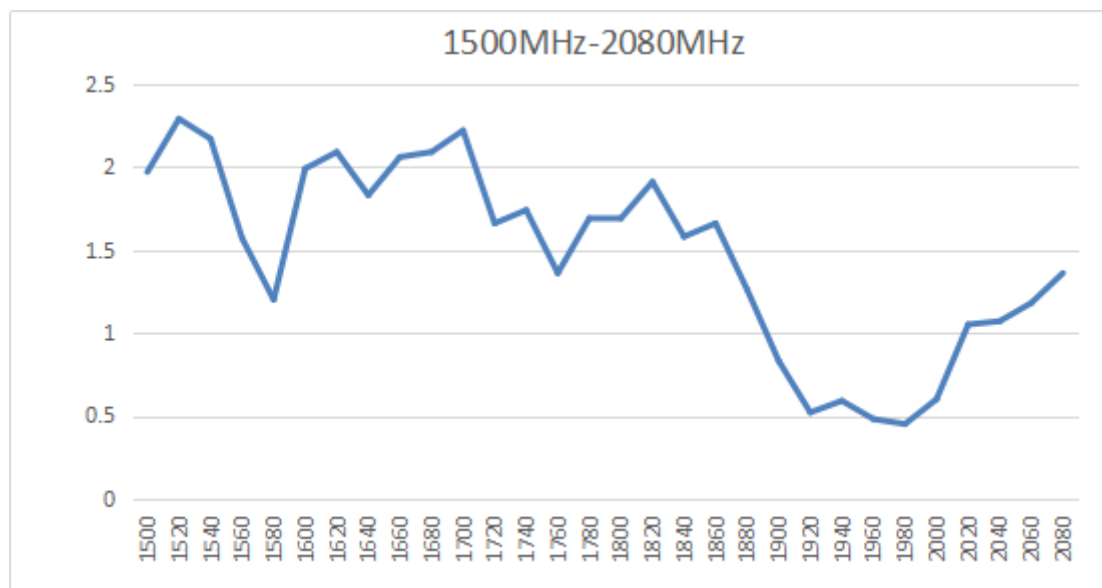
### 4.3. Efficiency

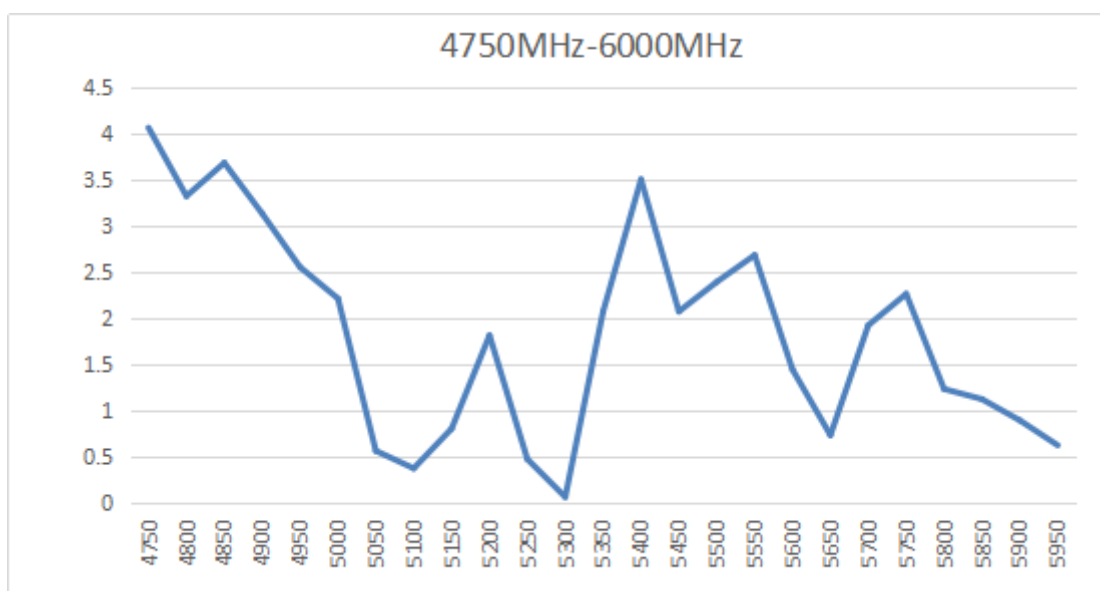
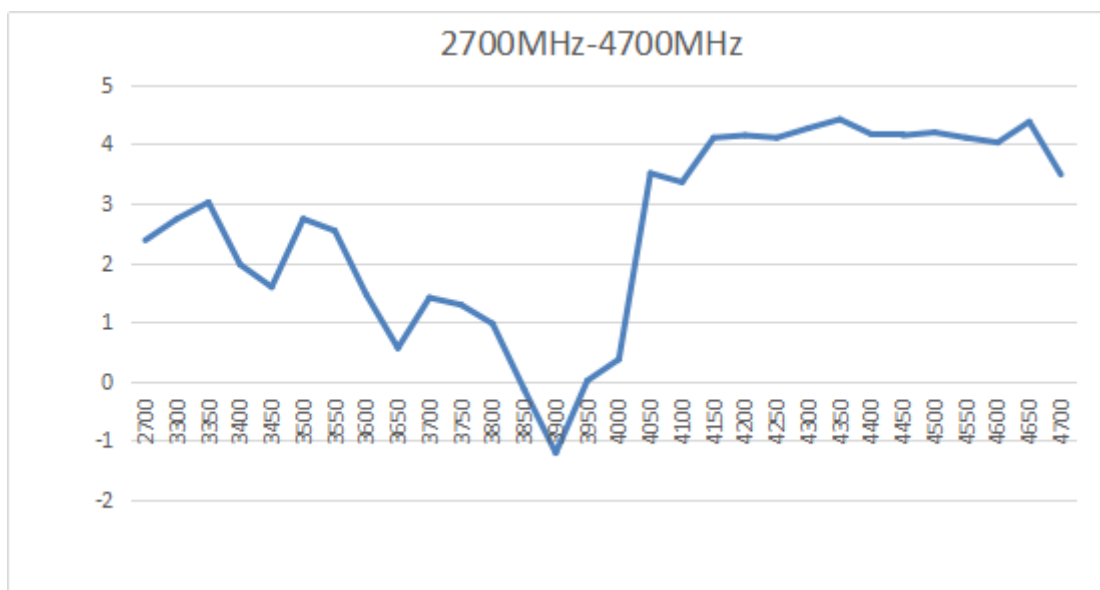




Frequency (MHz)	1500	1800	2160	2300	2680	3300	5000	6000
Efficiency (%)	49.95	42.07	56.02	40.36	57.26	56.9	46.56	40.75

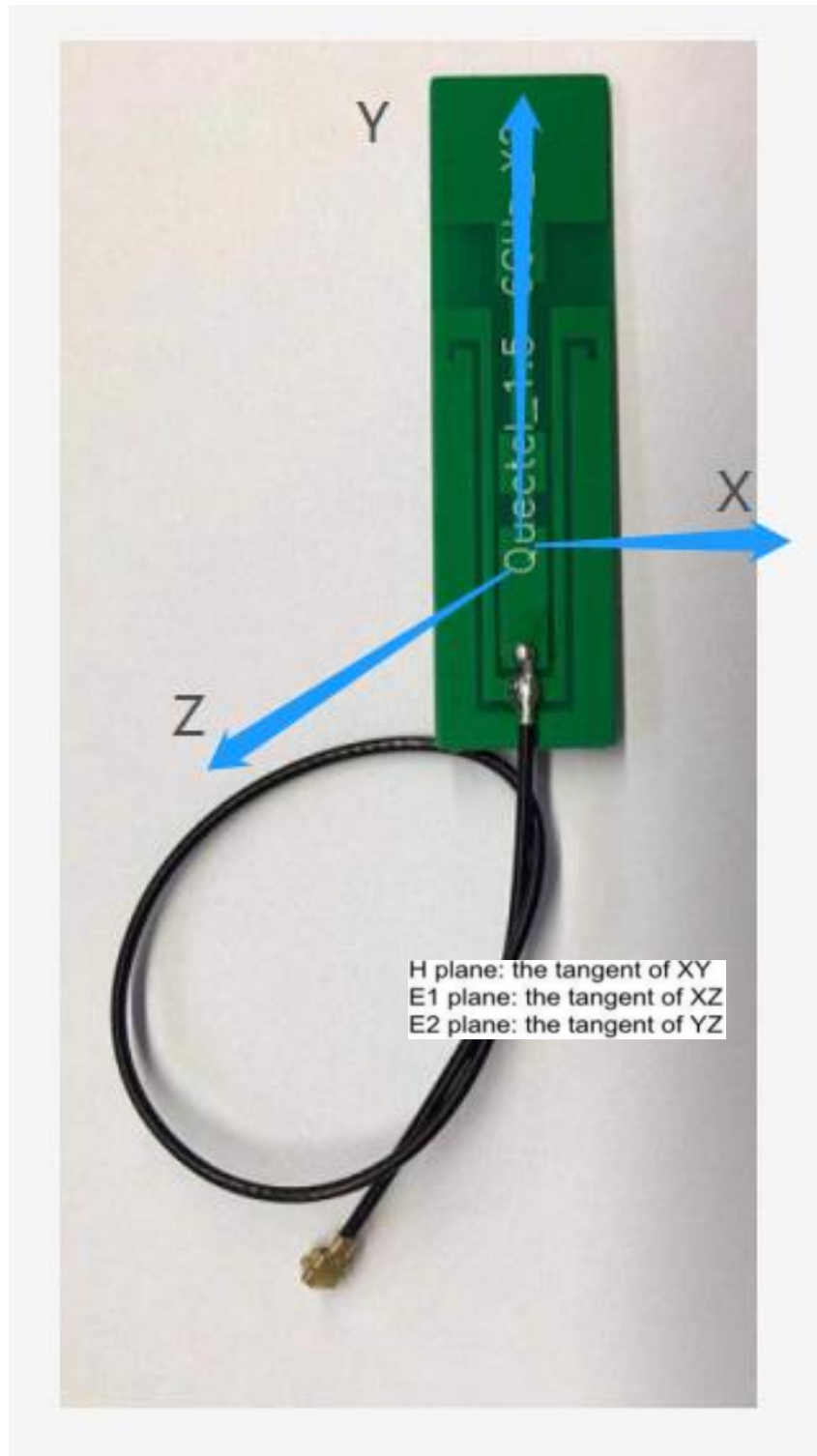
## 4.4. Gain

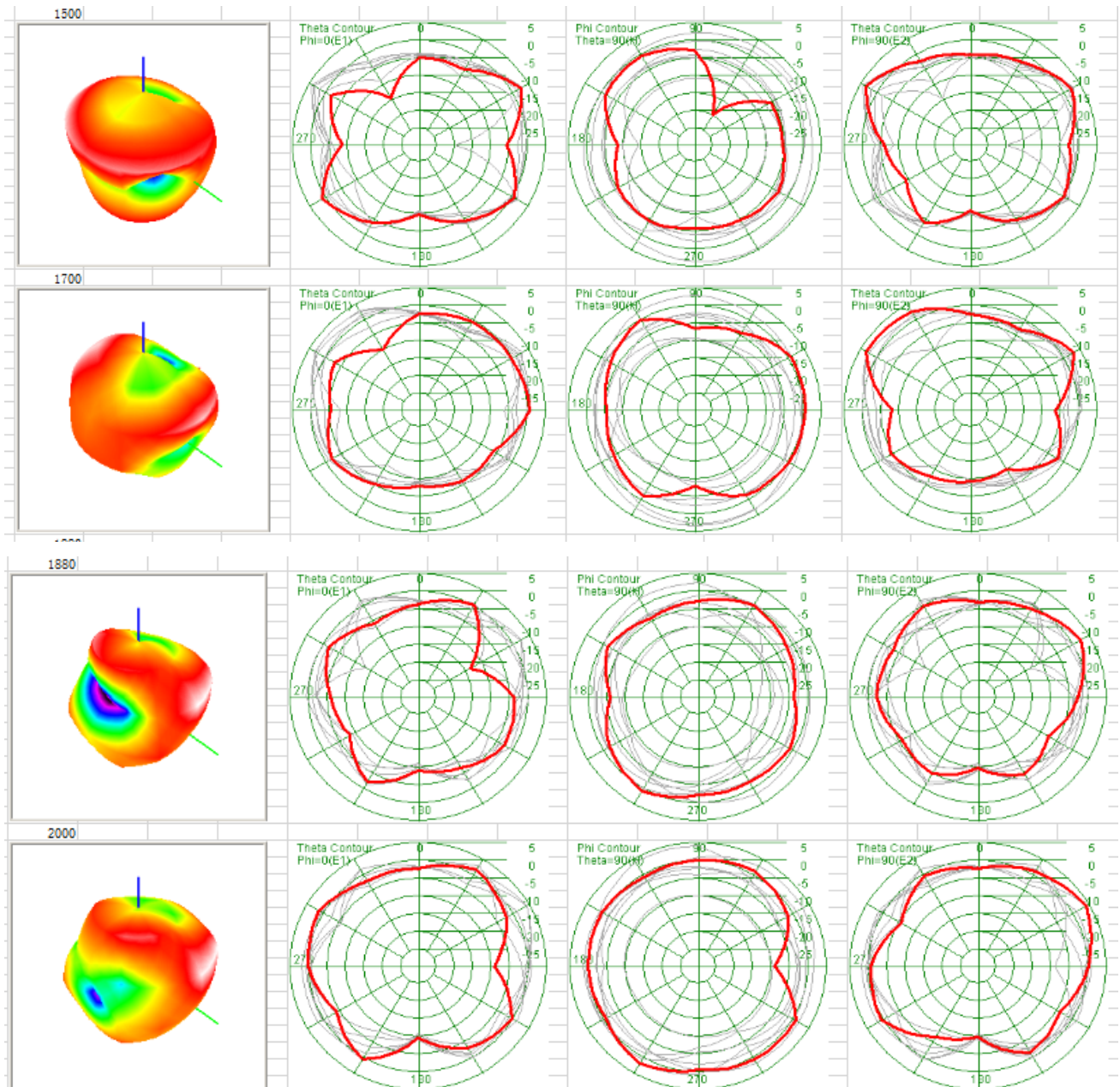


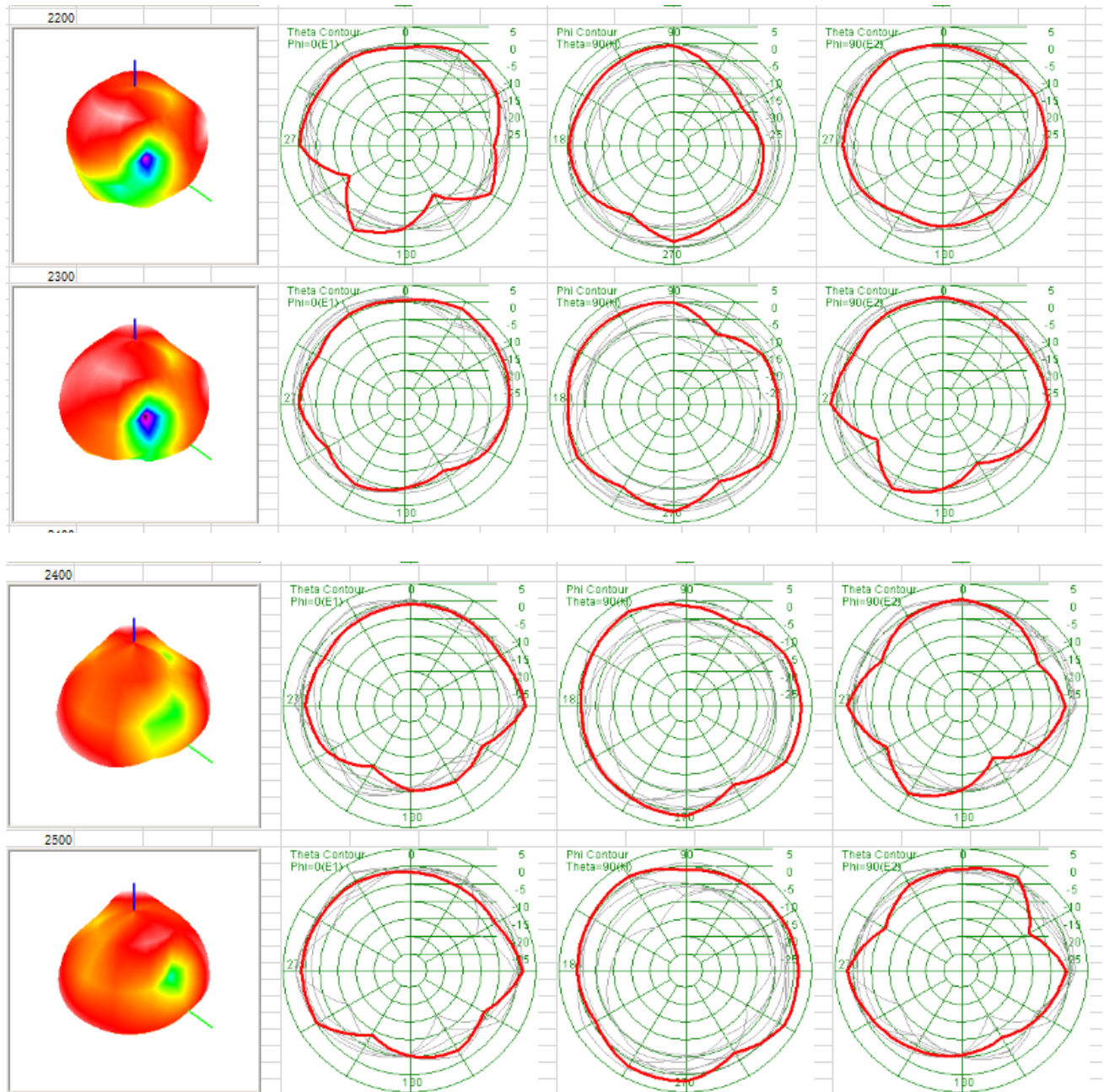


Frequency (MHz)	1500	1800	2160	2300	2680	3300	5000	6000
Gain (dBi)	1.97	1.69	1.37	2.33	2.56	2.74	2.21	-0.64

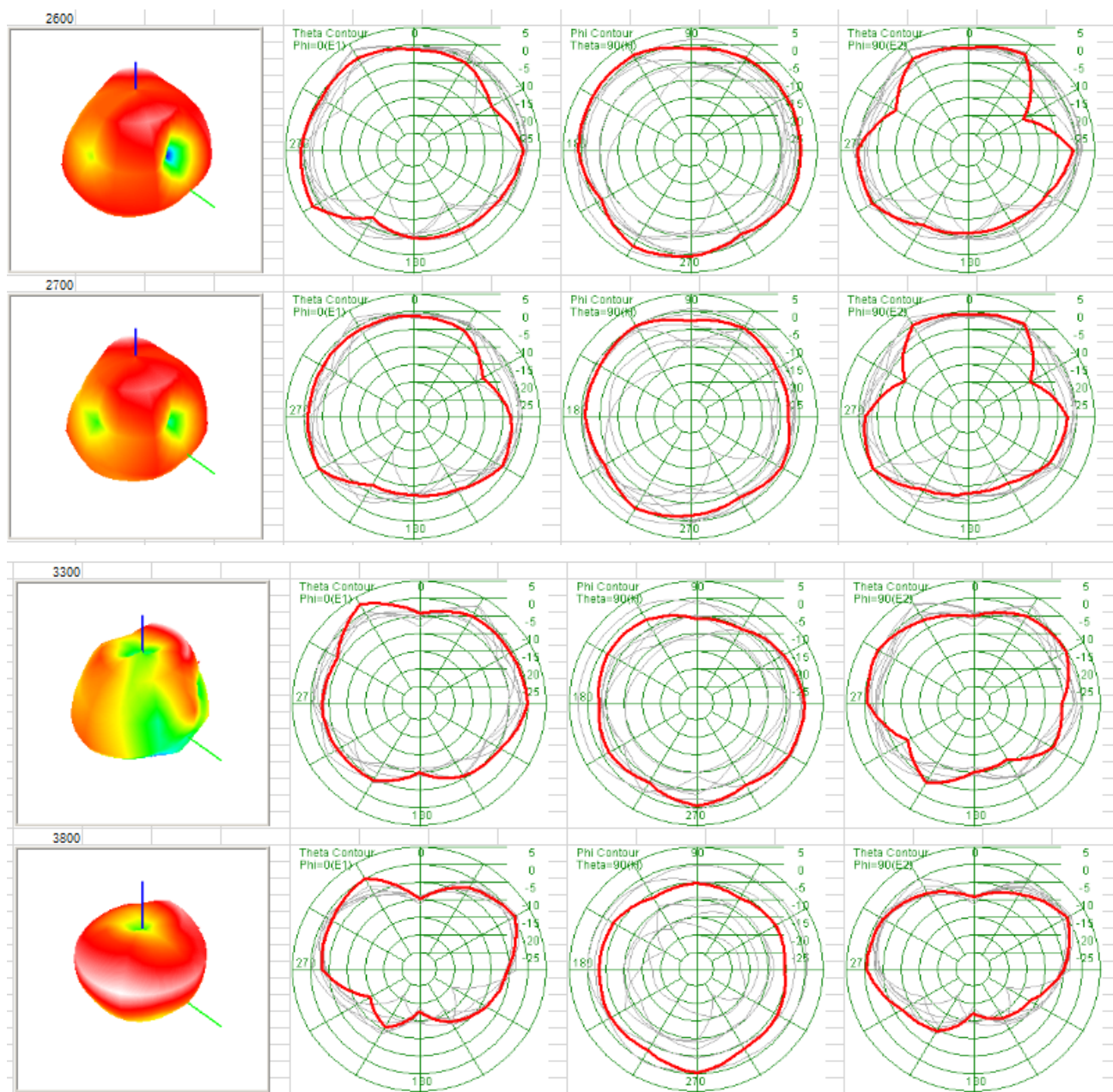
## 4.5. Radiation Patterns

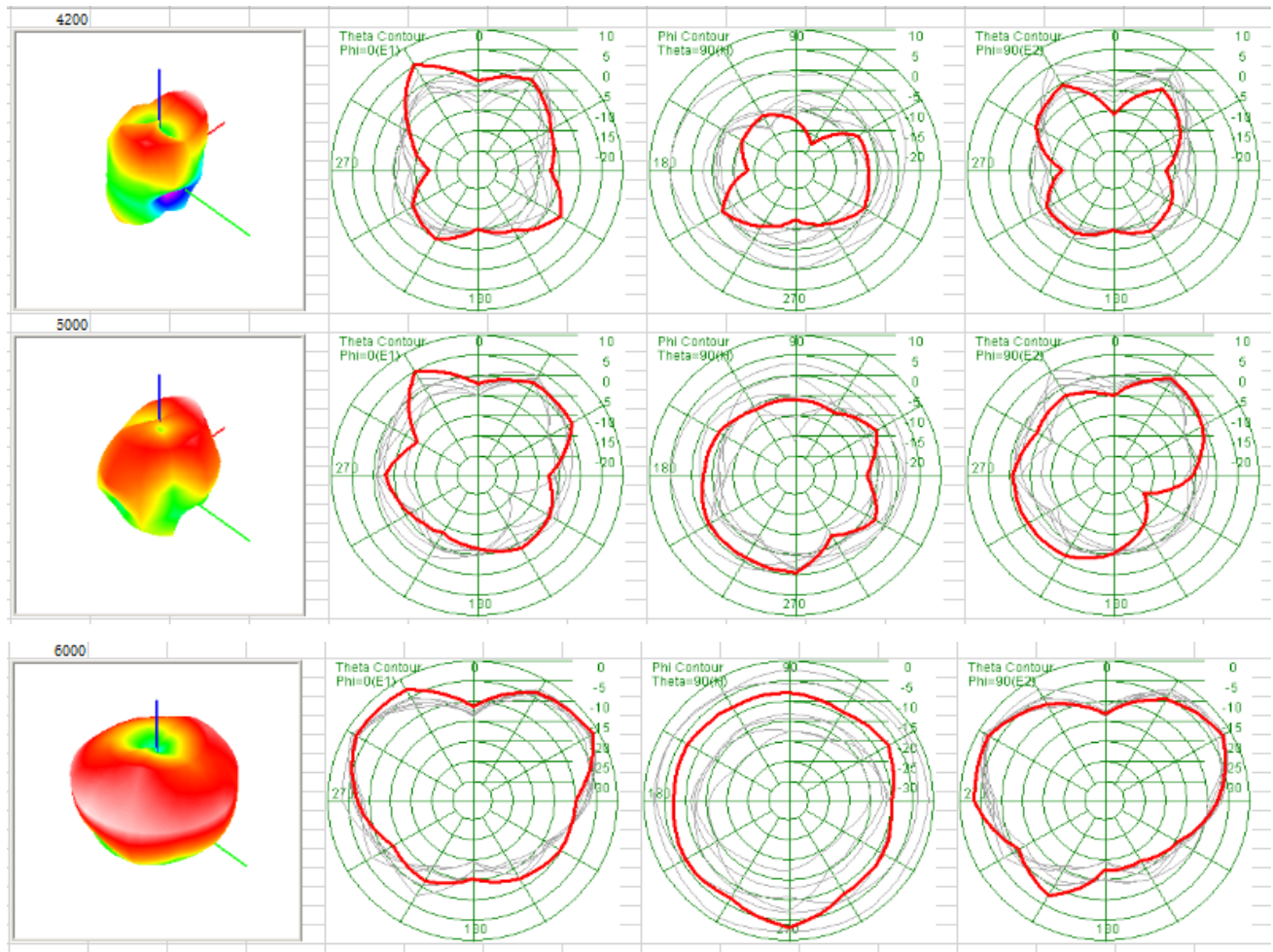




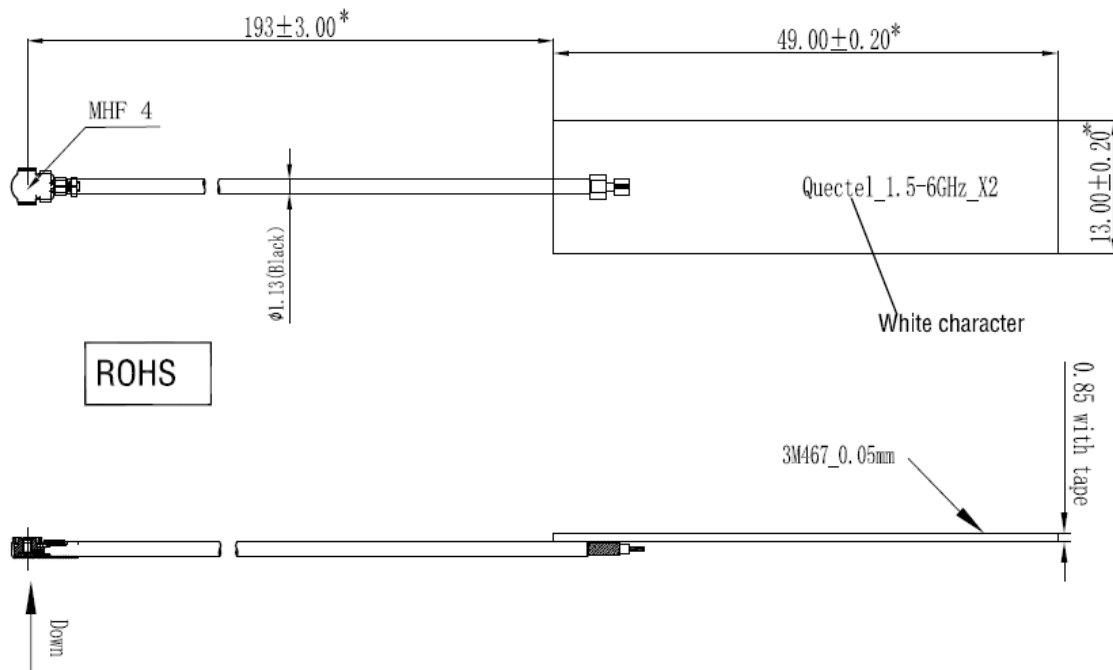








## 5 Product Size



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