

PCB Antenna

FC41D Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2022-05-26	Boris.Wang	Creation of the document
1.0	2022-05-26	Boris.Wang	First official release
1.1	2022-01-09	Boris.Wang	Second official release

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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

- Wifi
- High efficiency
- Excellent performance

3 Product Specifications

Passive Electrical Specifications

Frequency Range	2400–2500 MHz
Input Impedence	50 Ω
VSWR	≤ 3.0
Gain	≤ -1.8 dBi
Polarization Type	Linear

Detailed Passive Electrical Specifications

Frequency	
Range	2400–2500
(MHz)	
VSWR	2.7
(Max.)	
Average	
Efficiency	35
(%)	
Max. Peak	-1.8
Gain (dBi)	

4 Overall Performance

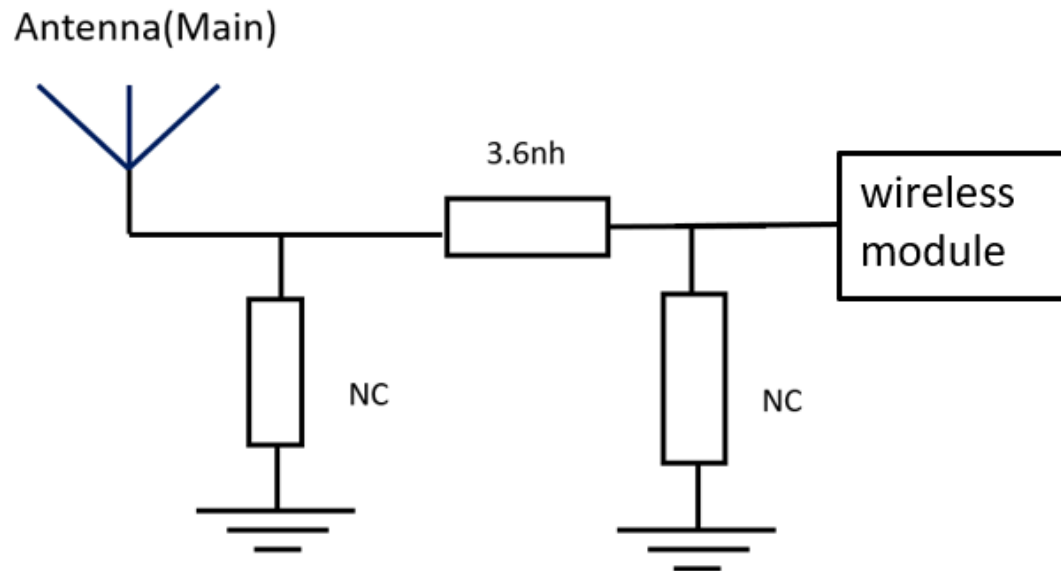
4.1. Test Environment

- KEYSIGHT ENA Network Analyzer E5063A 100 kHz – 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 600 MHz – 8.5 GHz

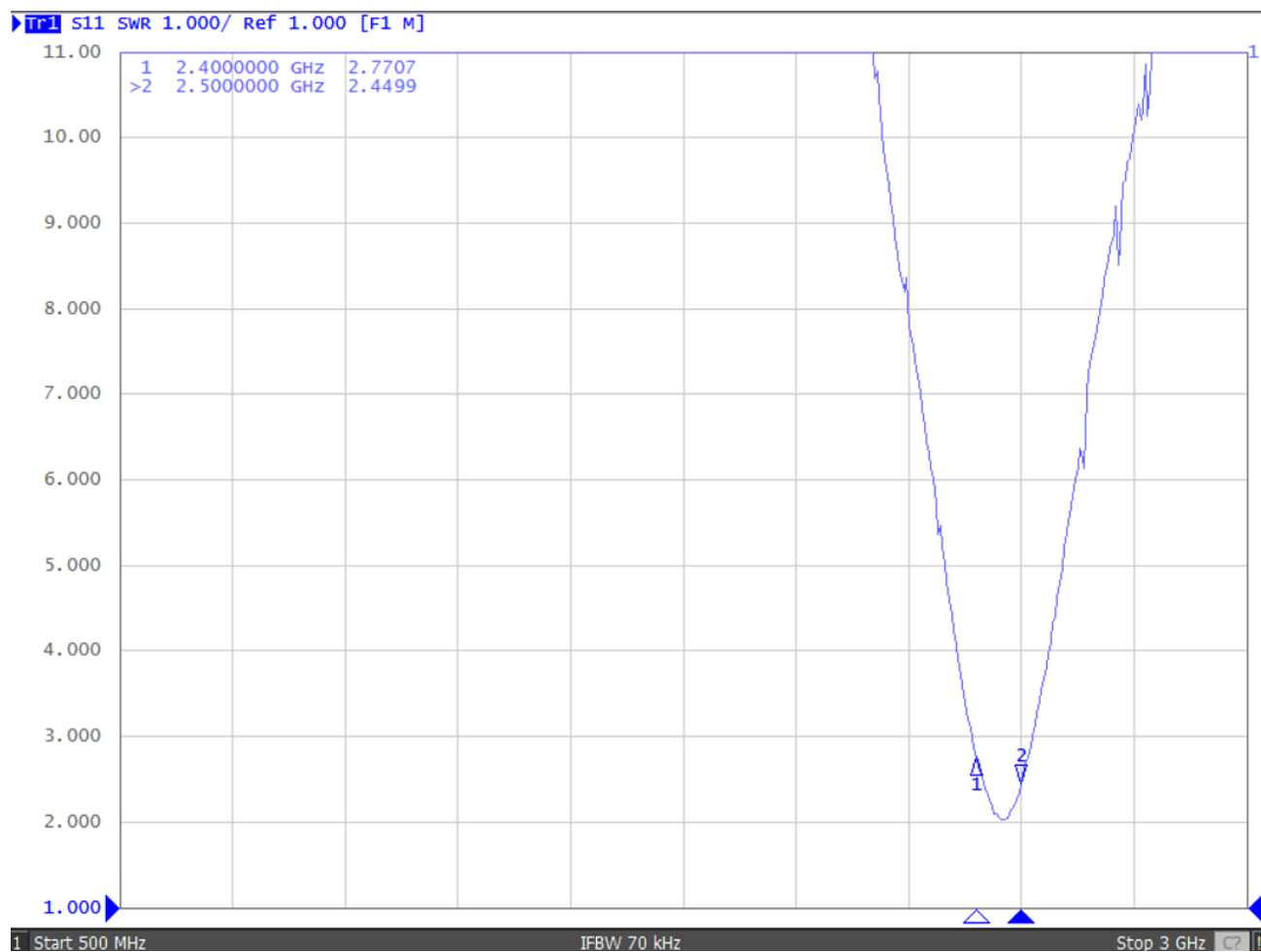


Other description:

4.2. Matching Circuit

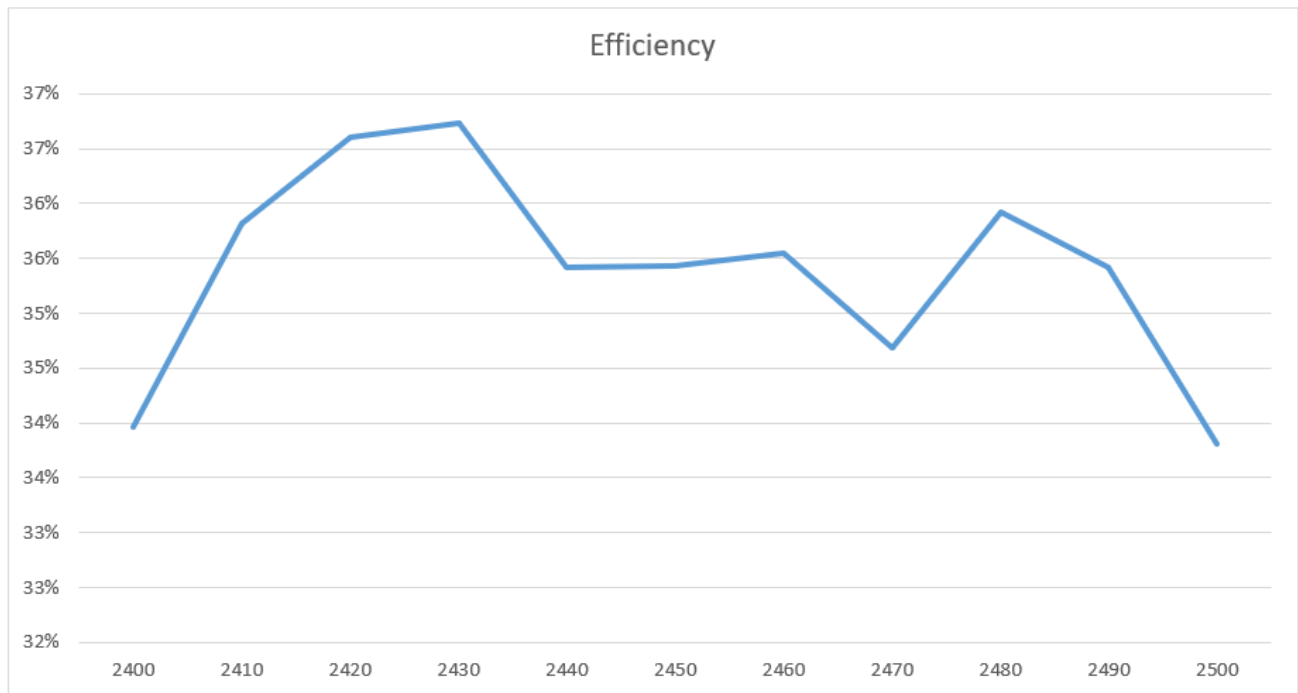


4.3. VSWR



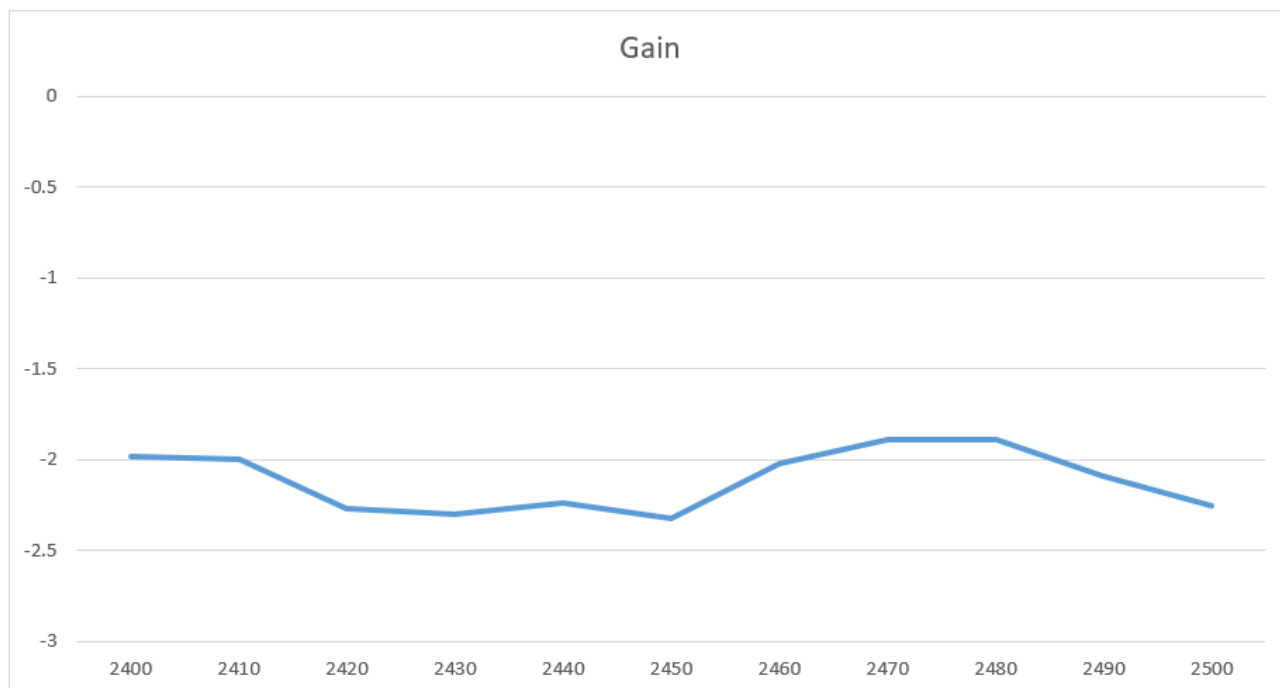
Frequency (MHz)	2400	2500
VSWR	2.77	2.44

4.4. Efficiency



Frequency (MHz)	2400	2500
Efficiency (%)	34	33

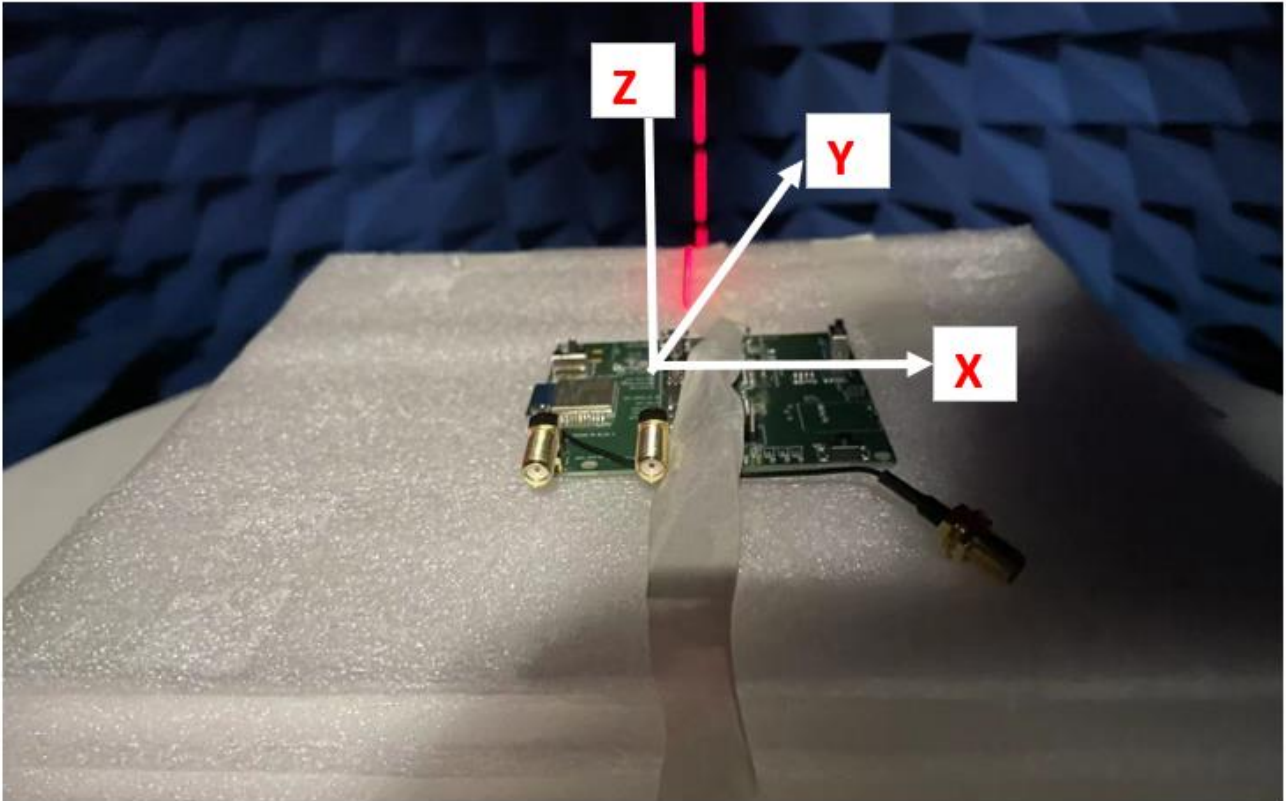
4.5. Gain

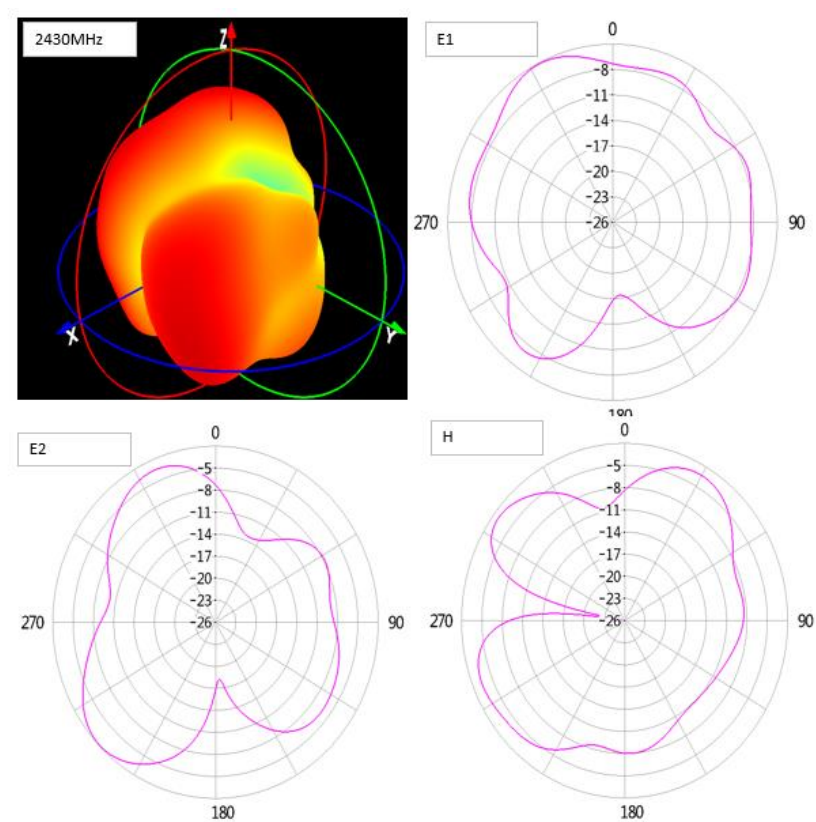
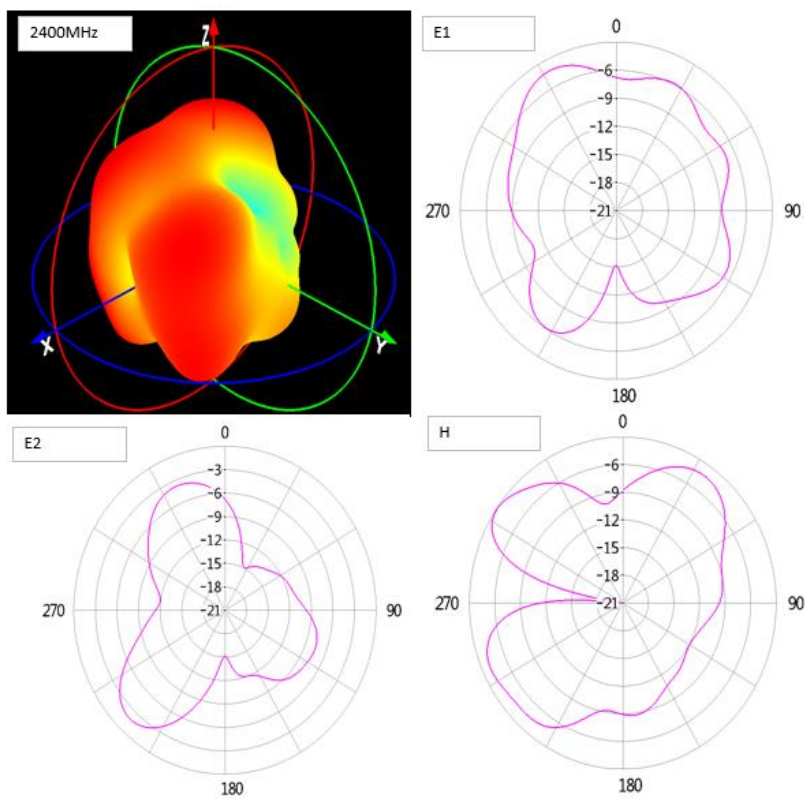


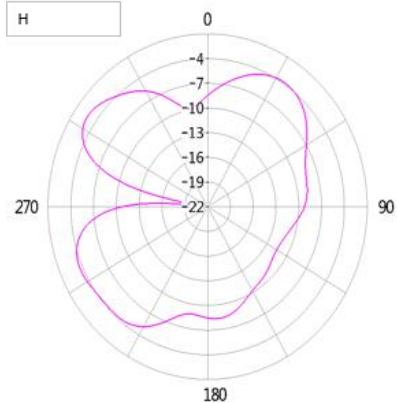
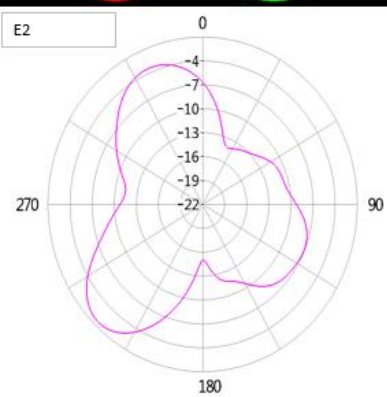
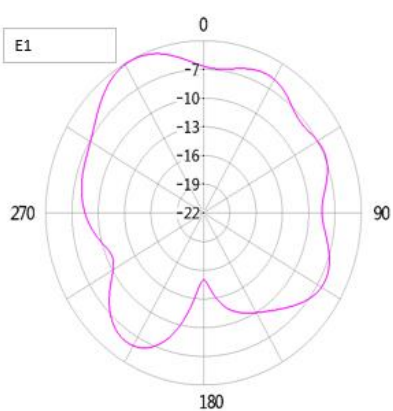
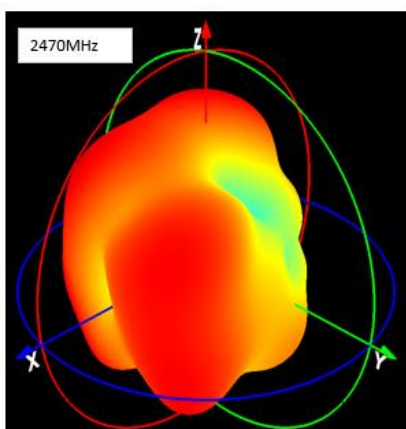
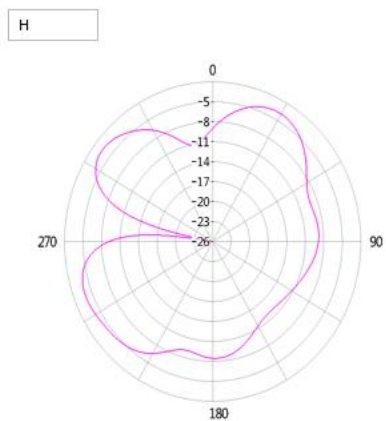
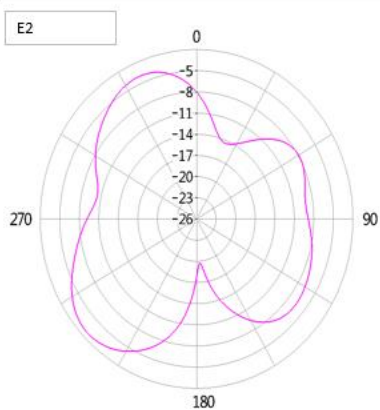
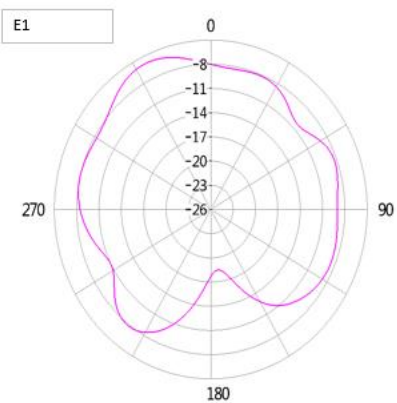
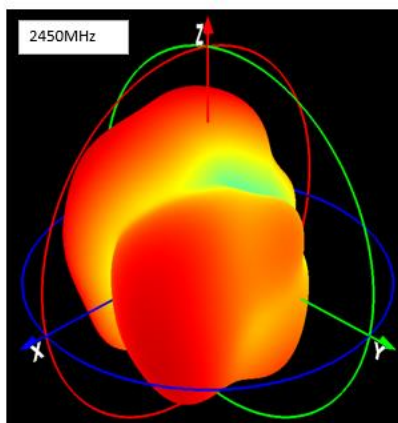
Frequency (MHz)	2400	2500
Gain (dBi)	-2	-2.2

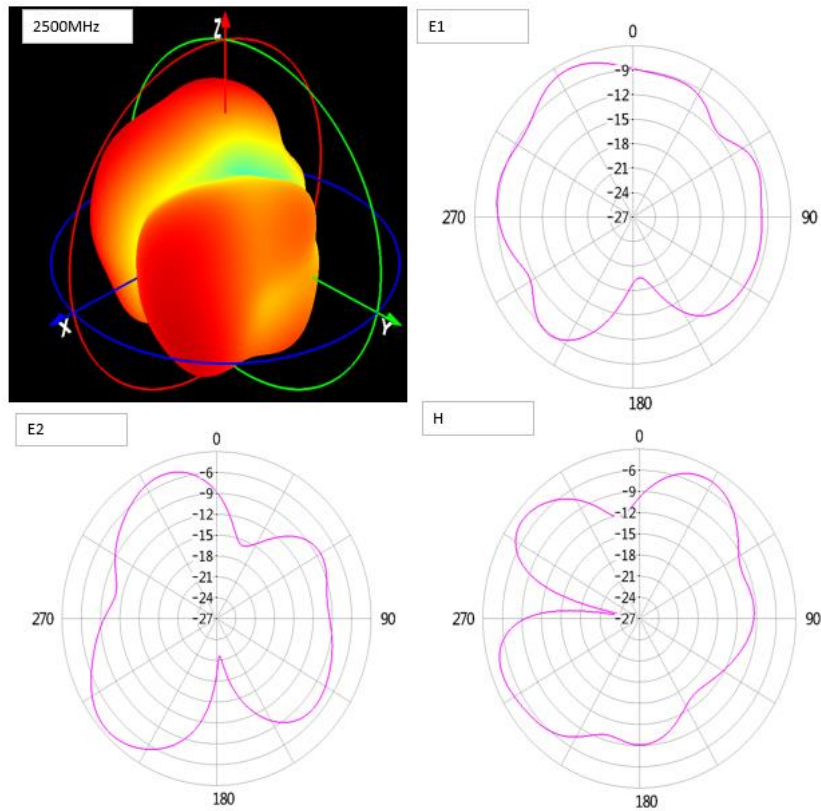
4.6. Radiation Pattern

- free space









5 Product Size (mm)

