



PCB Antenna

FC41D Datasheet

Antenna Services

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Status: Preliminary



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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 Impedance	50 Ω
VSWR	≤ 3.0
Gain	≤ -1.8 dBi
Polarization Type	Linear

Detailed Passive Electrical Specifications

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

4 Overall Performance

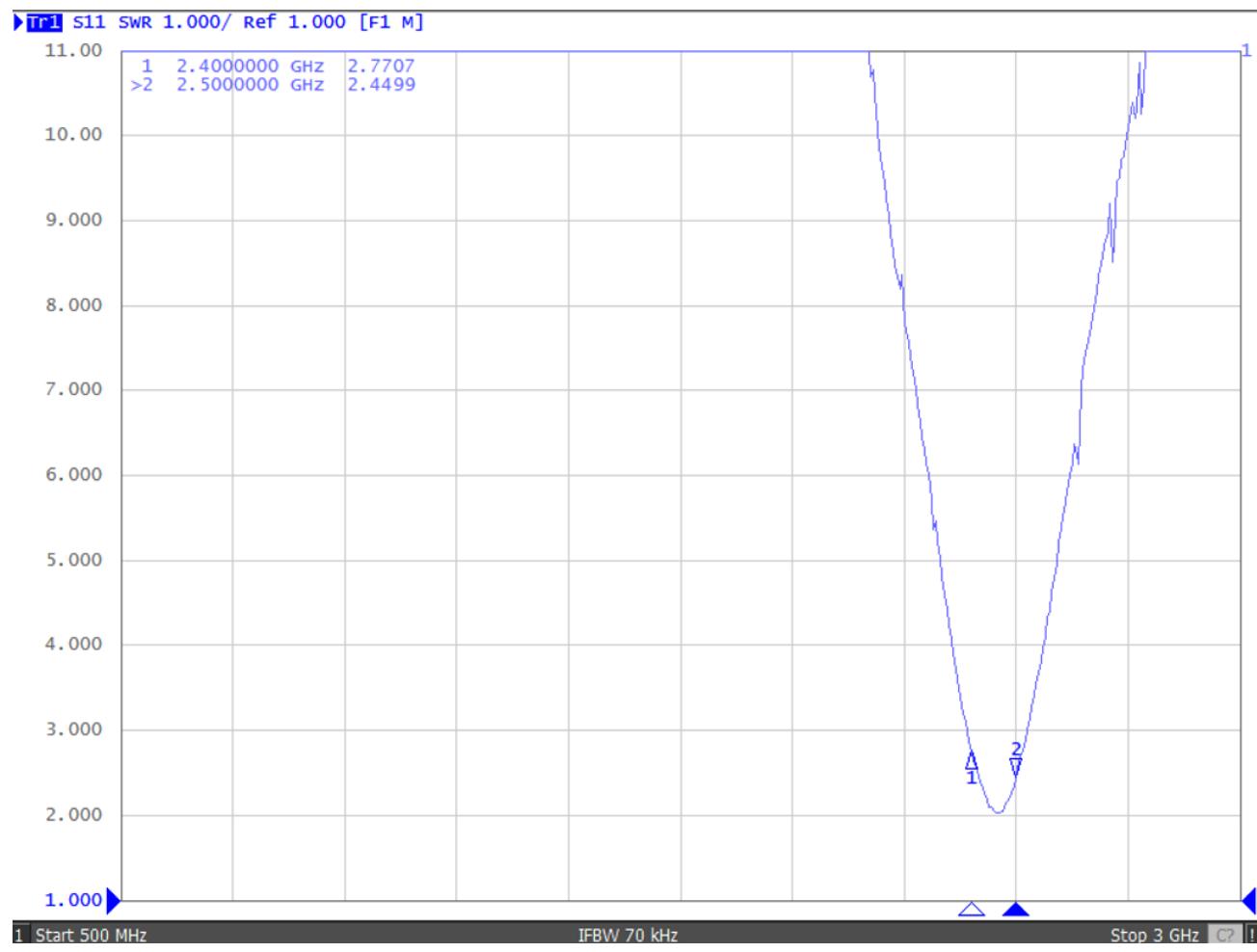
4.1. Test Environment

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



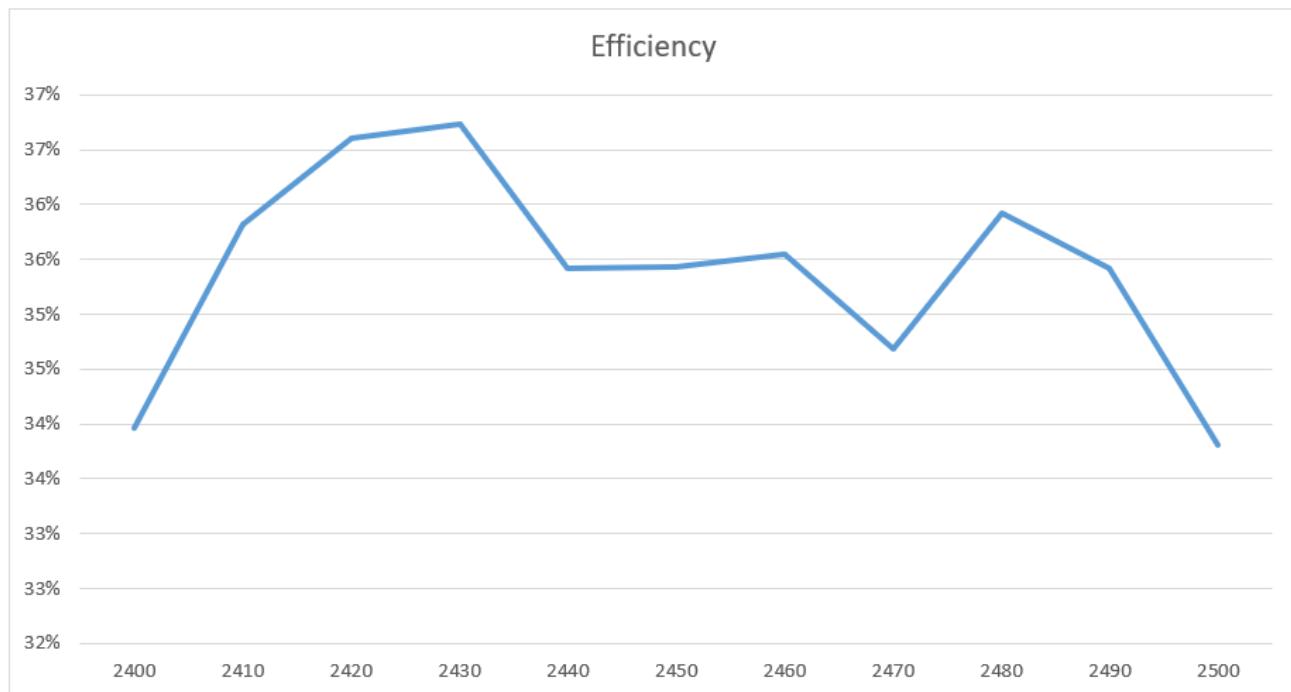
Other description:

4.2. VSWR



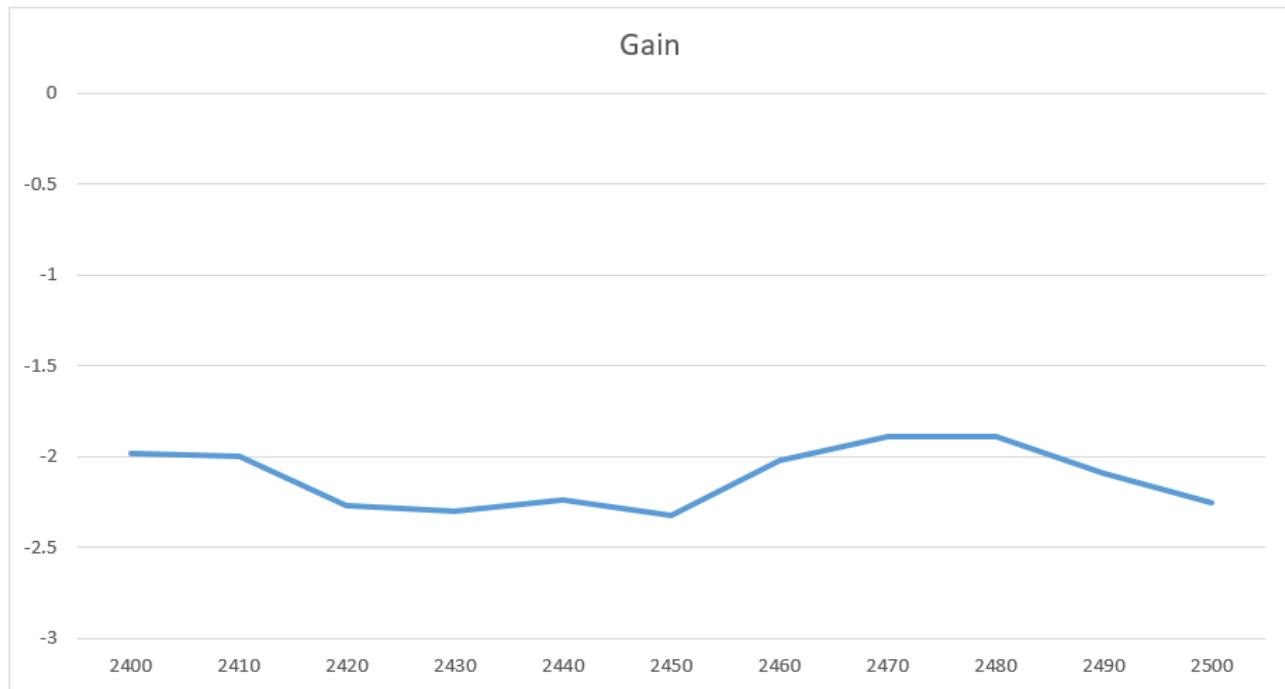
Frequency (MHz)	2400	2500
VSWR	2.77	2.44

4.3. Efficiency



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

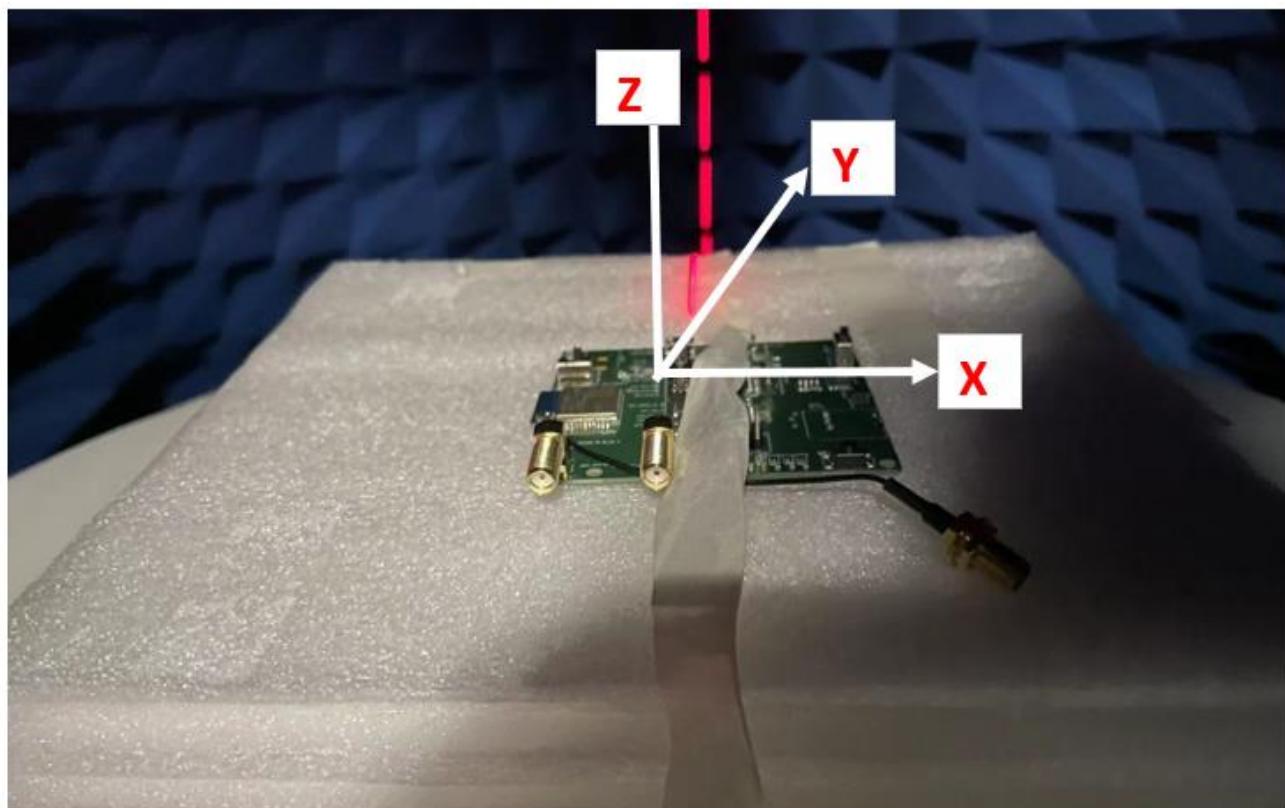
4.4. Gain

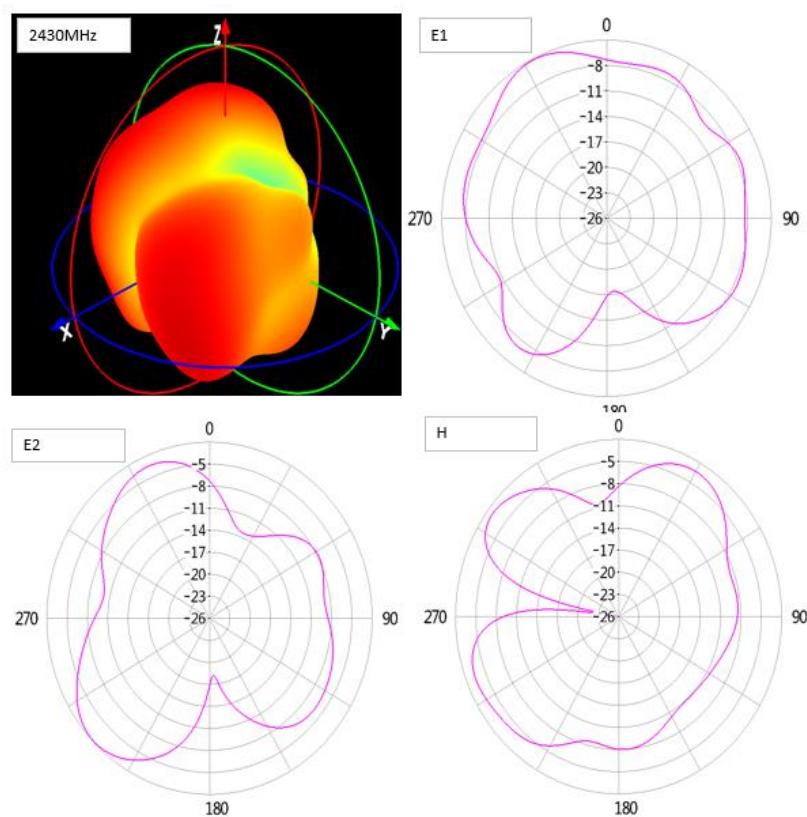
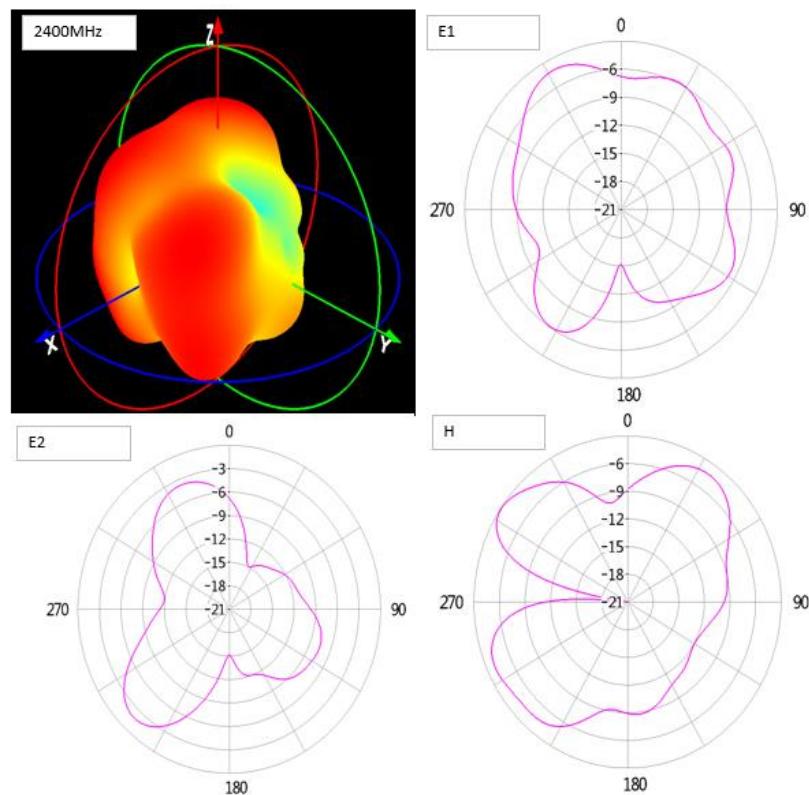


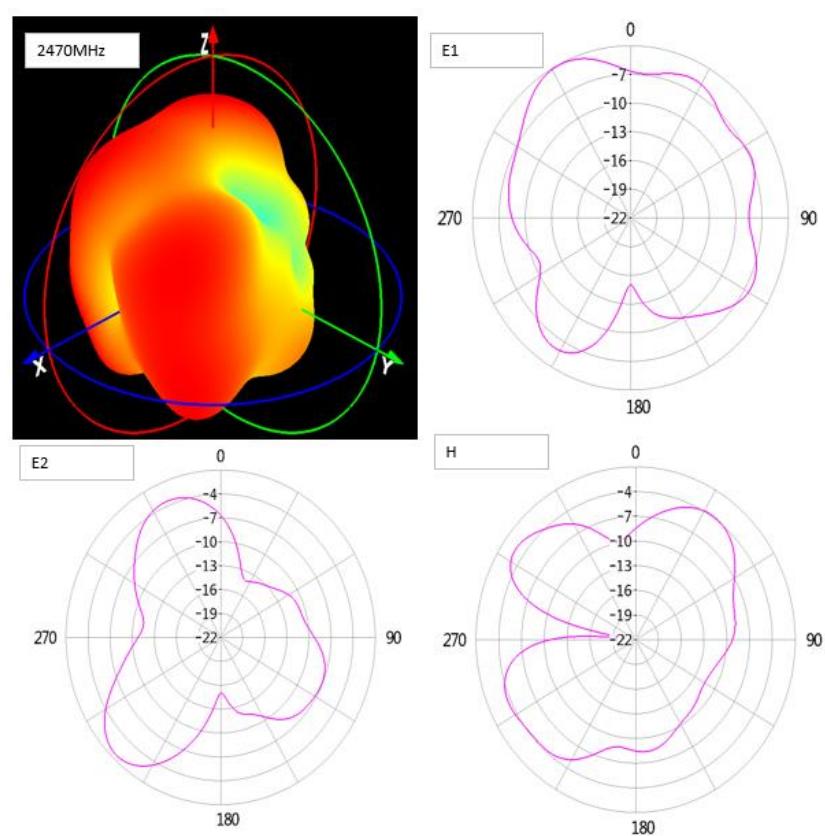
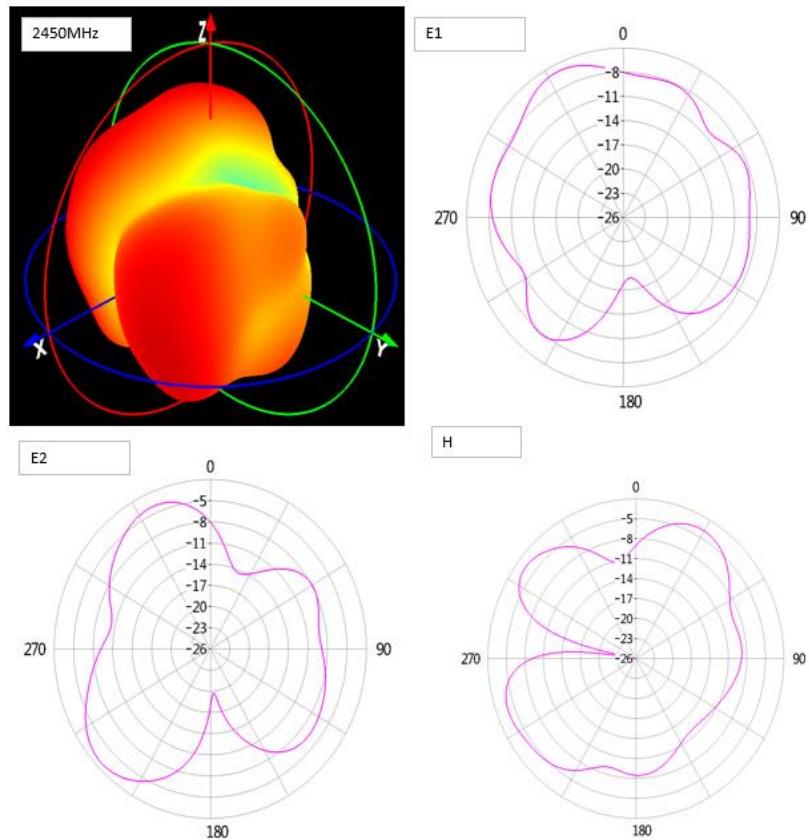
Frequency (MHz)	2400	2500
Gain (dBi)	-2	-2.2

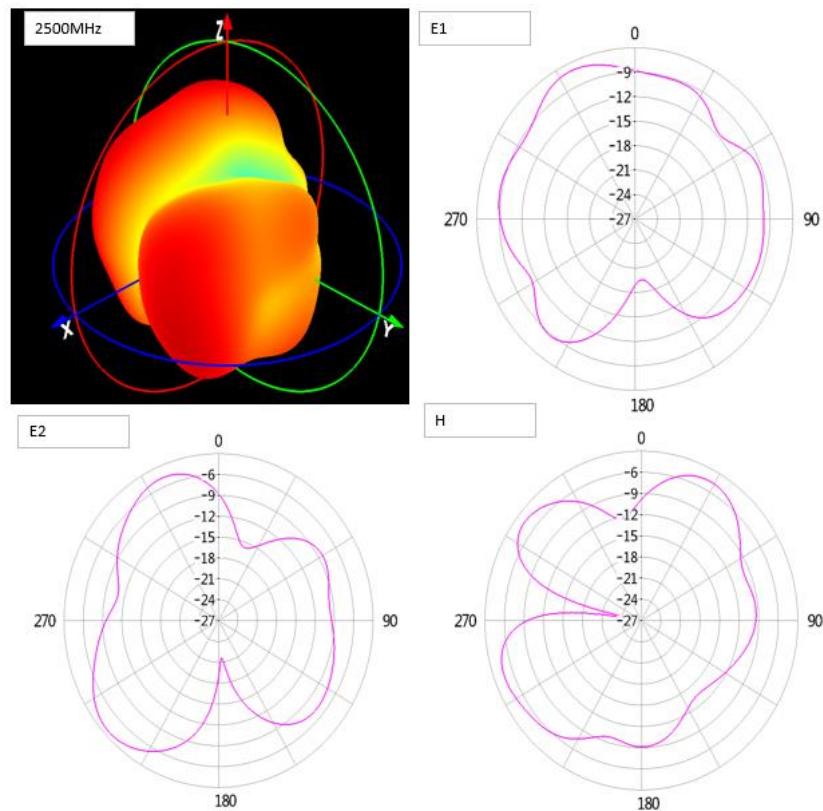
4.5. Radiation Pattern

- free space









5 Product Size (mm)

