AN91445 MIFA　Antenna Test Report

1.　Antenna manufacturer：Infineon Technologies AG

2. Antenna Brand：Cypress Semiconductor3.

3.Manufacturer's address：

Am Campeon 1-15, 85579 Neubiberg, Germany

1.Basic Antenna Parameters

1.1 Antenna Model: AN91445 Reference Design MIFA

1.2 Antenna Name: Meandered InvertedF Antenna

1.3 Antenna Type: PCB On-board Integrated Antenna

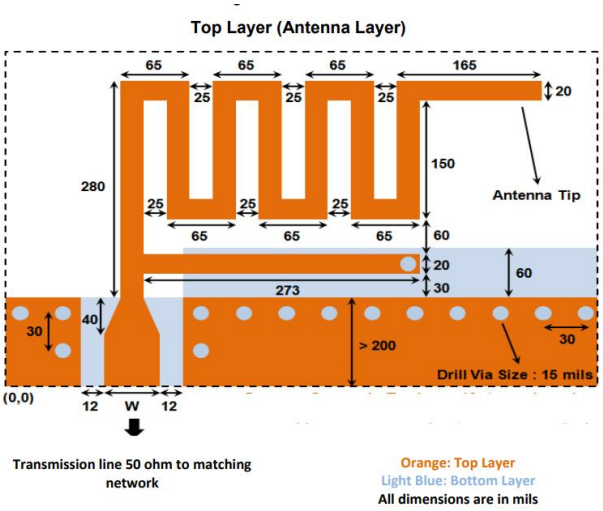
1.4 Application Range: 2.4G wireless mice, keyboards, Bluetooth peripherals, and other HID

1.5 Physical Dimensions: 7.2mm × 11.1mm

1.6 Trace Width: 20mil (approx. 0.5mm

1.7 Compatible Board Material: Standard FR4 printed circuit board

2.Antenna photo and drawings:

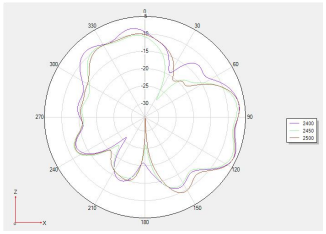


3. Antenna efficiency,frequency,and gain:

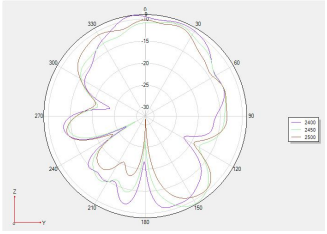
Test frequency	Gain (dBi)	Typical radiation efficiency
2400	1.4	45%
2440	1.6	55%
2480	1.5	50%

4.Antenna 2D 3D drawings:

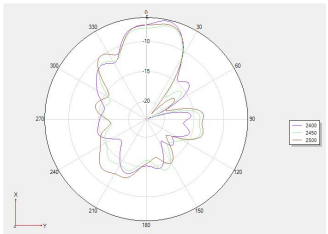
Phi 0 2D



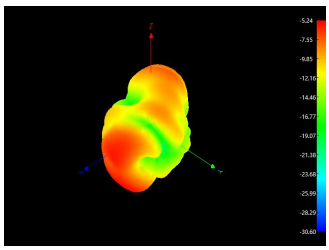
Phi 90 2D



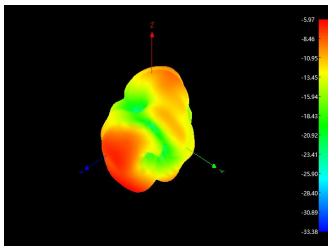
Theta 90 2D



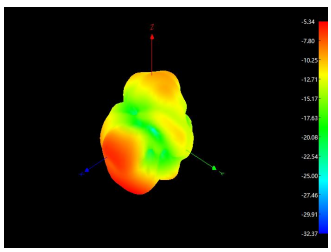
2400



2440

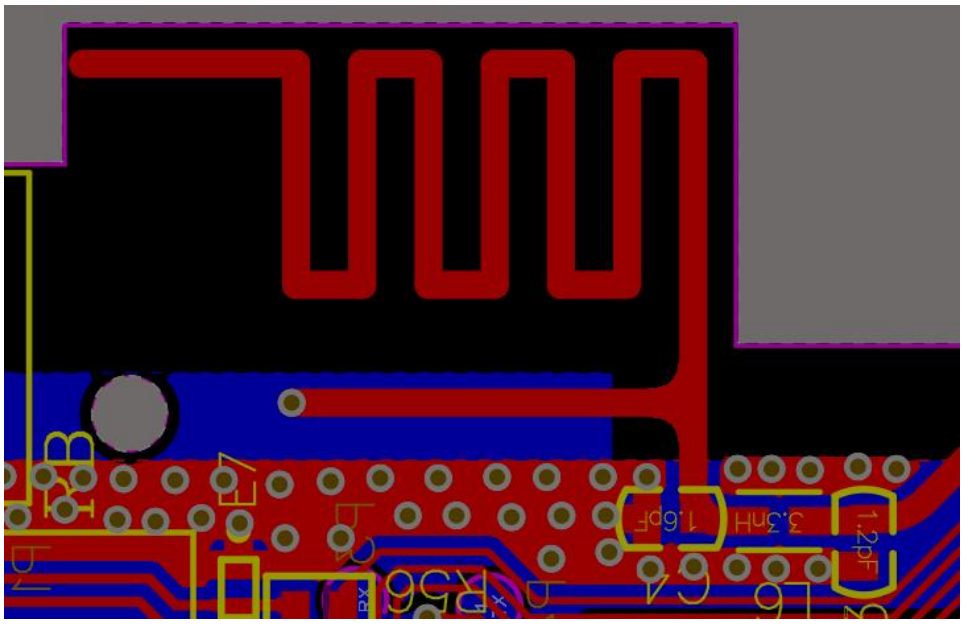


2480



5.Antenna standing wave ratio：

6.Corresponding circuit drawings:



7.Testing methods and standards

Name	Parameter	Method	Standrd no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std149-1979

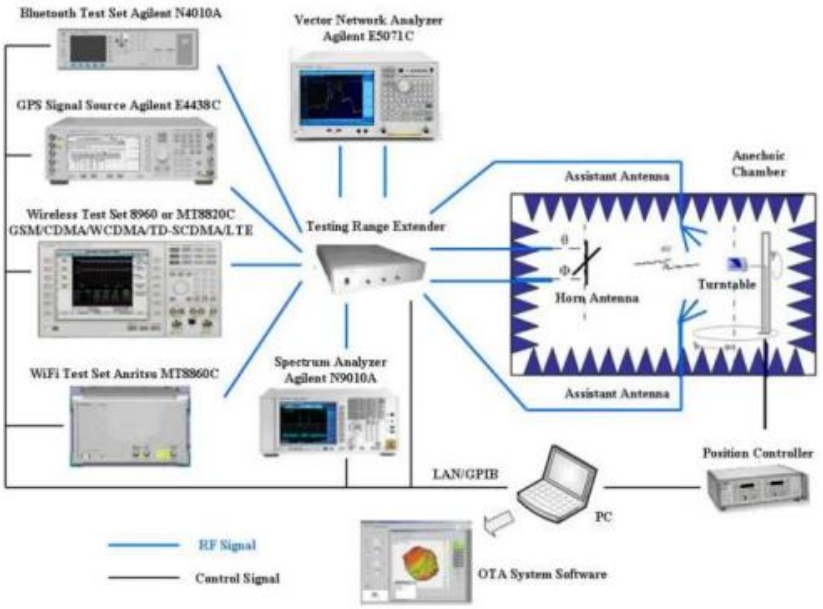
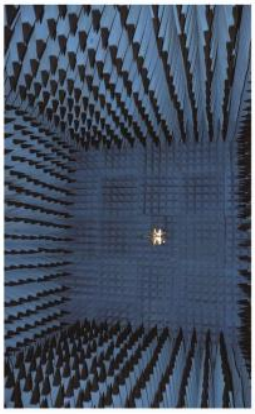
8.Instrument List and Calibration Date

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Keysight	E5071C	MY46900393	2025.10.29	2028.10.28
Chamber	Fotek	FTMP-24T	FS-20201019	2025.10.28	2028.10.27

9.Testing laboratory information

Laboratory Name: Shenzhen Feixin Wireless Communication Co., Ltd
Address: 104 Huanguan Middle Road, Longhua District, Shenzhen
Test date: March 2026
Tested by: Mr. Huang

10.Test configuration diagram：



11.Testing environment photo: