
Antenna Specification

Manufacture: Mixtiles Ops USA Inc

Product Name: Throw Light Antenna

Antenna Type: PCB

Test Date: 2021.05.20

Content

1.General Description	1
2.Test Configurations	2
2.1 Test Environment	2
2.2 Test Equipment	2
2.3 Test Principle	2
3.Test Results	3
3.1 Gain and Efficiency	3
3.2 Radiation Pattern	4
4.Antenna Dimensions	6
5.EUT Photo	6
6.Test Setup Photo	7

1.General Description

Manufacturer	Mixtiles Ops USA Inc
Address	1000 N. West Street, Suite 1410 Wilmington, DE 19801 US
Technical	Wi-Fi
Product Name	Throw Light Antenna
Product model	OA-AMB-US
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

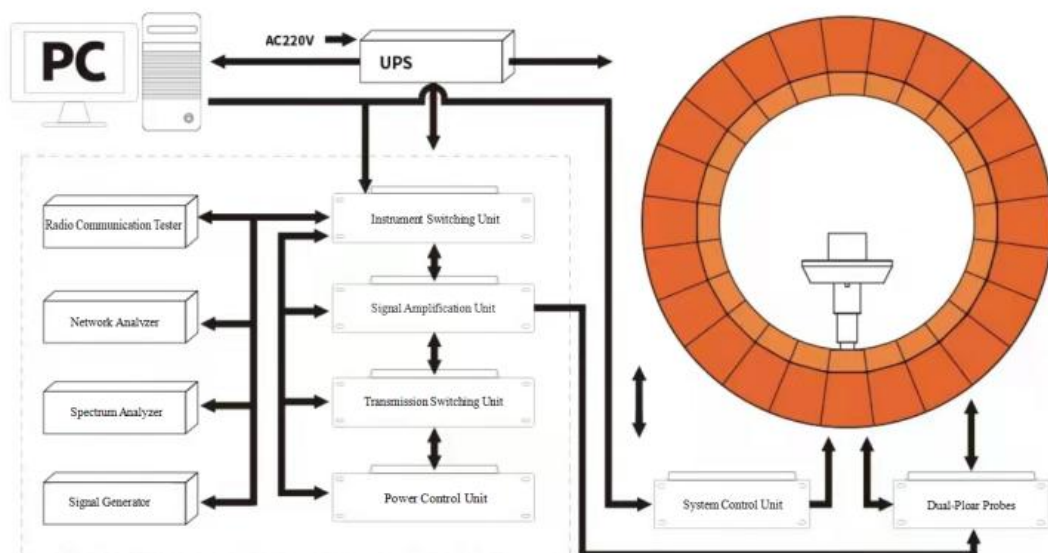
2.1 Test Environment

Temperature (°C)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B

2.3 Test Principle



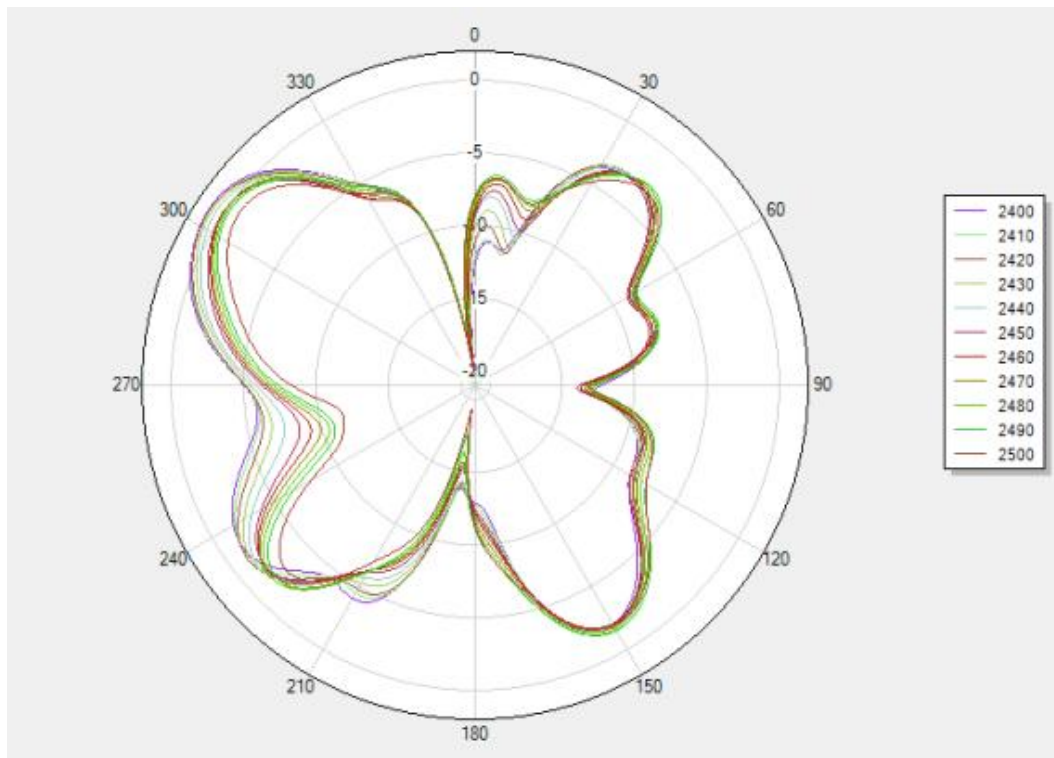
3.Test Results

3.1 Gain and Efficiency

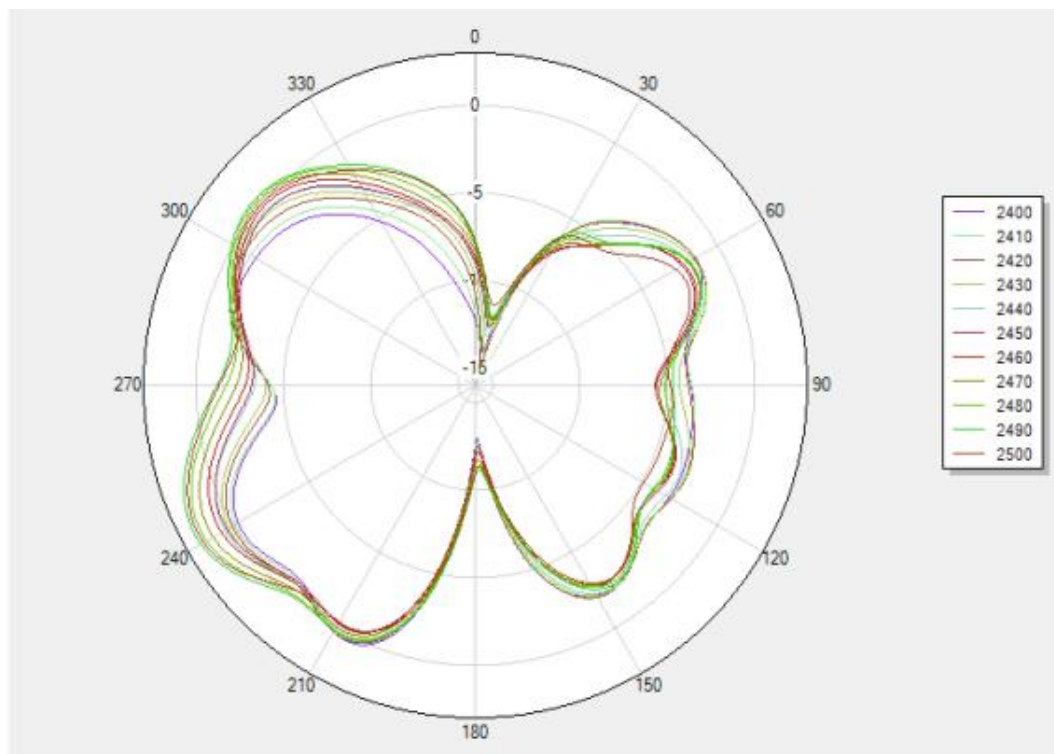
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	1.62	52.29
2410	1.71	52.17
2420	1.93	53.14
2430	1.98	54.16
2440	2.00	57.62
2450	2.17	59.64
2460	2.45	61.55
2470	2.38	60.64
2480	3.96	72.86
2490	2.30	59.85
2500	2.49	60.41

3.2 Radiation Pattern

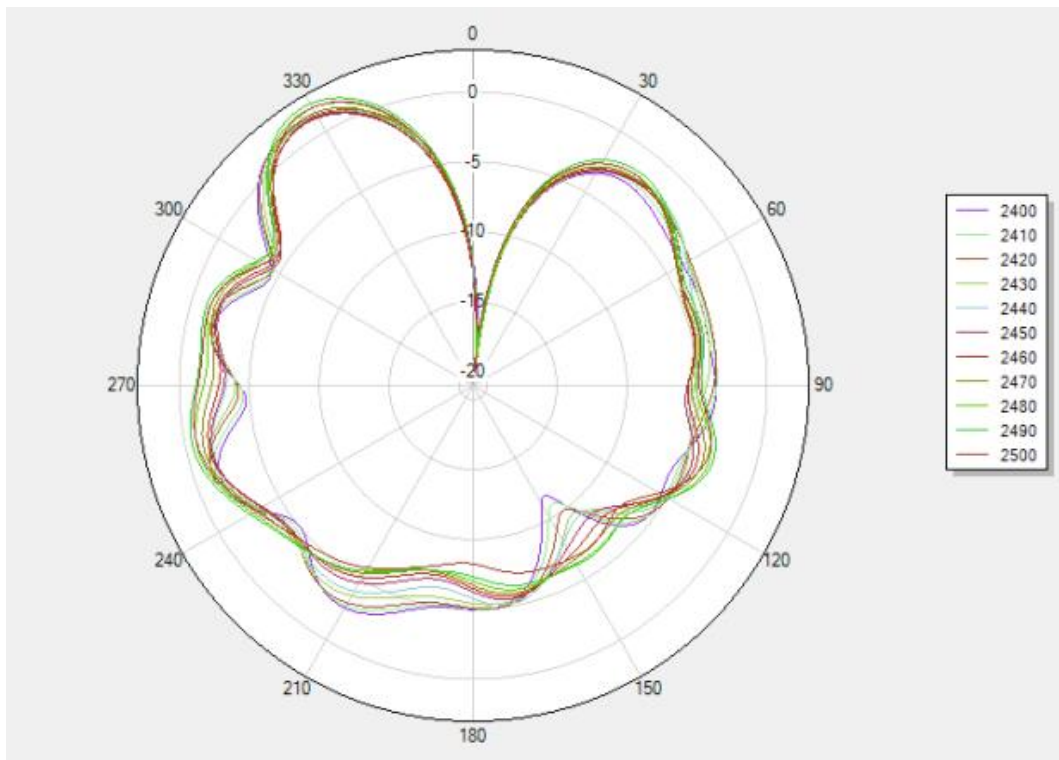
Phi 0 2D



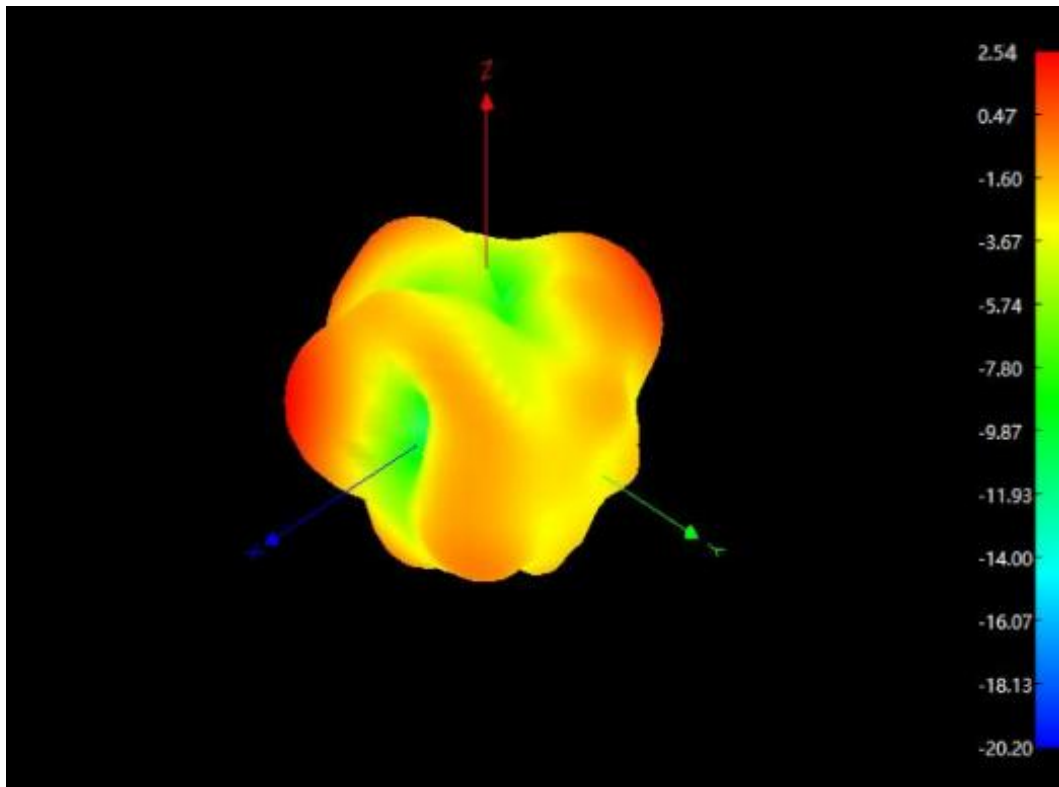
Phi 90 2D



Theta 90 2D

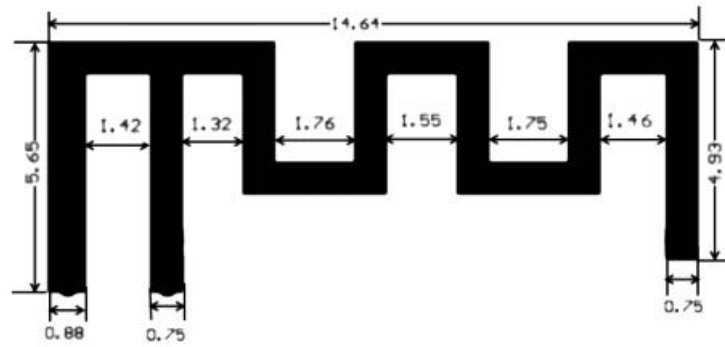


2480MHz 3D



4. Antenna Dimensions

Unit: mm



6.Test Setup Photo

