

LYNwave Technology

Antenna & Thermal solution provider

Antenna Test Report

Project Name: CGNV5-U

Model Name:

Feature: 2.4G/5G

Application: WiFi AP

Date	Owner	Revision
02/11	Zino	1. V1 , PCB Antenna tune,

Gain Table

Ant.1			
Frequency (MHz)	2400	2450	2500
Efficiency(%)	74	78	78
Peak Gain(dBi)	2.8	2.9	3.0
Ant.2			
Frequency (MHz)	2400	2450	2500
Efficiency(%)	71	75	70
Peak Gain(dBi)	2.4	3.0	2.9
Ant.3			
Frequency (MHz)	5150	5550	5825
Efficiency(%)	72	77	75
Peak Gain(dBi)	3.4	4.5	5.0
Ant.4			
Frequency (MHz)	5150	5550	5825
Efficiency(%)	74	74	72
Peak Gain(dBi)	3.9	5.0	4.6

The antenna characteristics

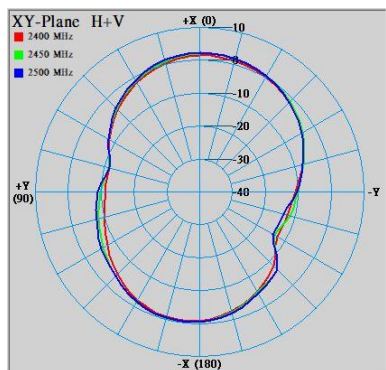
- Return loss < -10dB in operating band
- Isolation
 - All Band > 20 dB
- Efficiency
 - WIFI 2.4GHz Band $\geq 70\%$
 - WIFI 5GHz Band $\geq 70\%$
- Gain
 - WIFI 2.4GHz Band 2.8~3.0dBi
 - WIFI 5GHz Band 3.4~5.0dBi

Ant.1_ 2D.3D Radiation Pattern

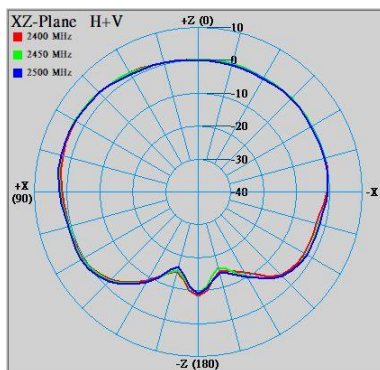
Frequency(MHz) : 2D. 2400~2500
3D. 2450

Radiation Pattern :

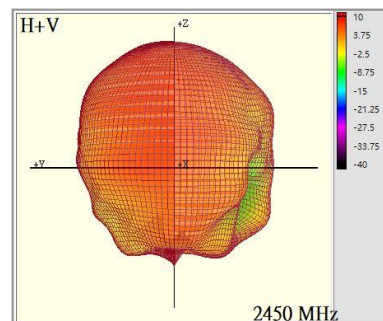
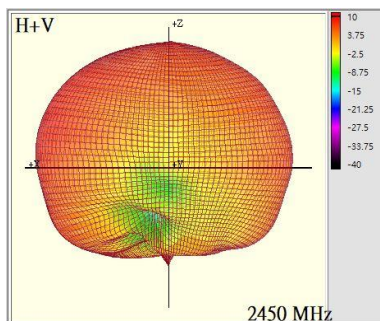
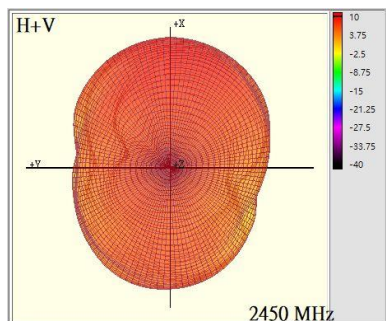
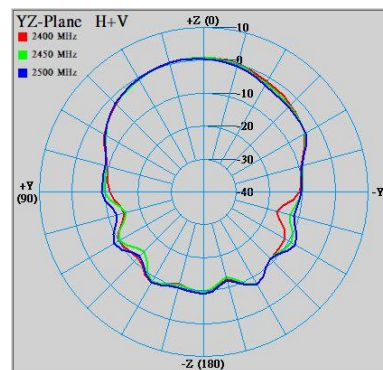
Azimuth Plane



Elevation Plane
phi = 0



Elevation Plane
phi = 90

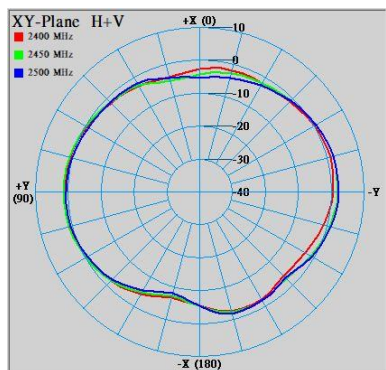


Ant.2_ 2D.3D Radiation Pattern

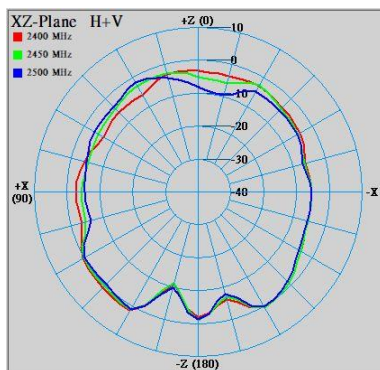
Frequency(MHz) : 2D. 2400~2500
3D. 2450

Radiation Pattern :

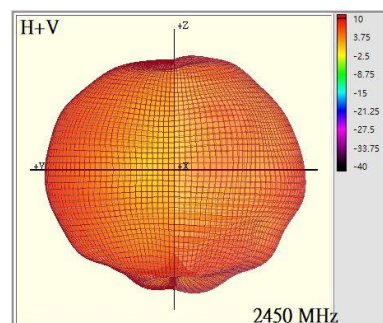
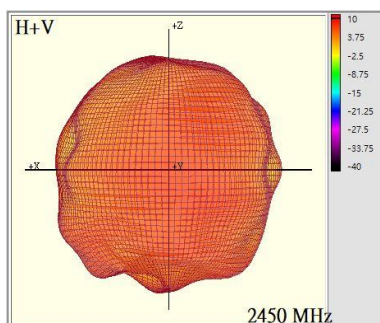
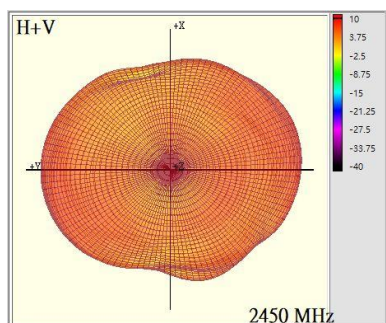
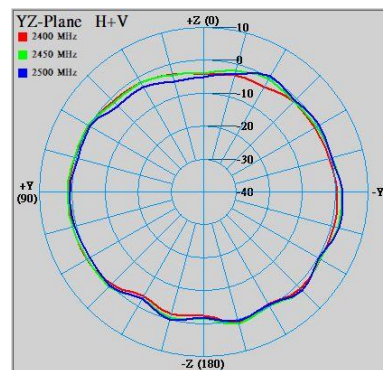
Azimuth Plane



Elevation Plane
phi = 0



Elevation Plane
phi = 90

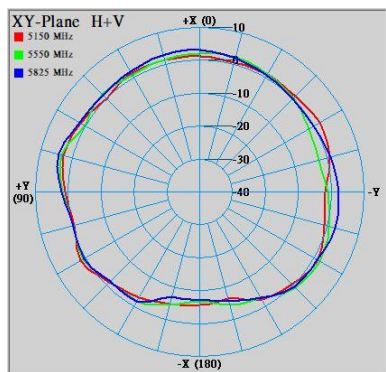


Ant.3_ 2D.3D Radiation Pattern

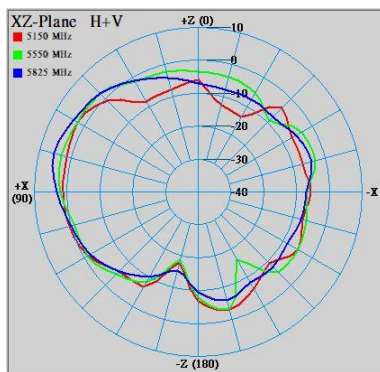
Frequency(MHz) : 2D. 5150~5825
3D. 5550

Radiation Pattern :

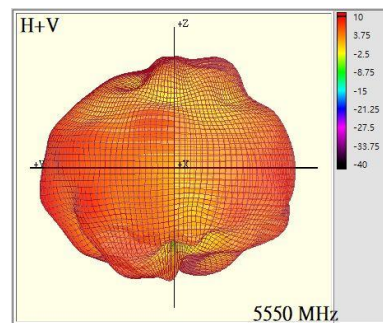
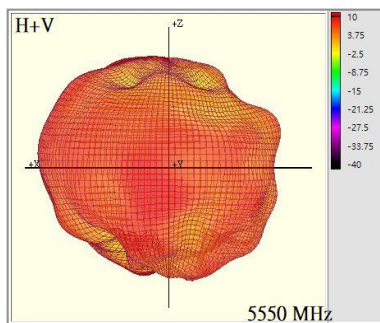
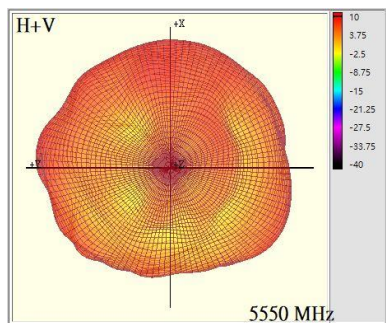
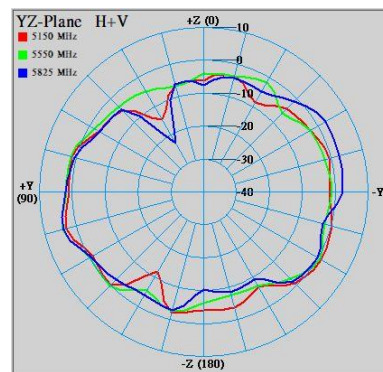
Azimuth Plane



Elevation Plane
phi = 0



Elevation Plane
phi = 90



Ant.4_ 2D.3D Radiation Pattern

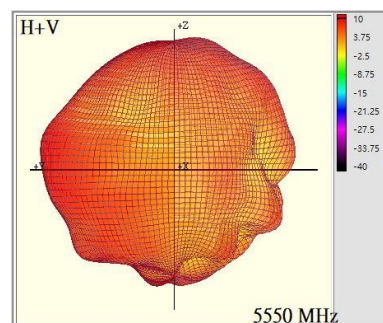
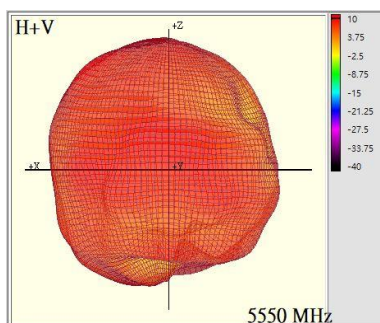
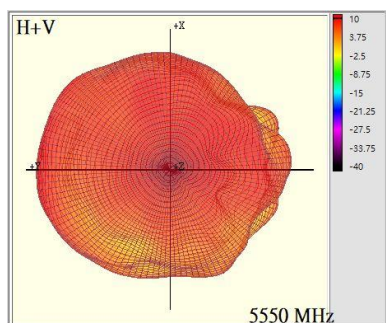
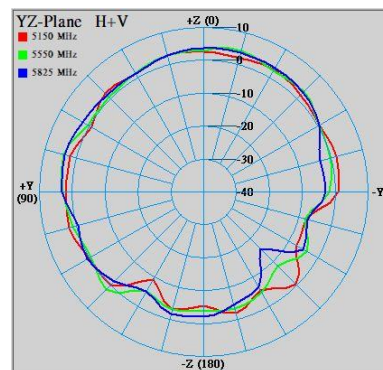
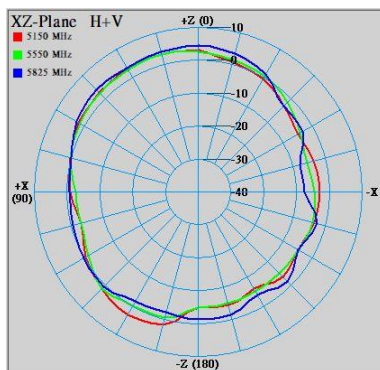
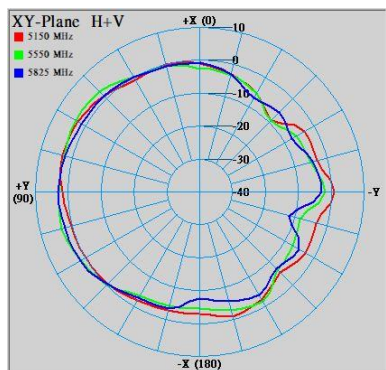
Frequency(MHz) : 2D. 5150~5825
3D. 5550

Radiation Pattern :

Azimuth Plane

Elevation Plane
phi = 0

Elevation Plane
phi = 90



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