

# LYNwave Technology

Antenna & Thermal solution provider



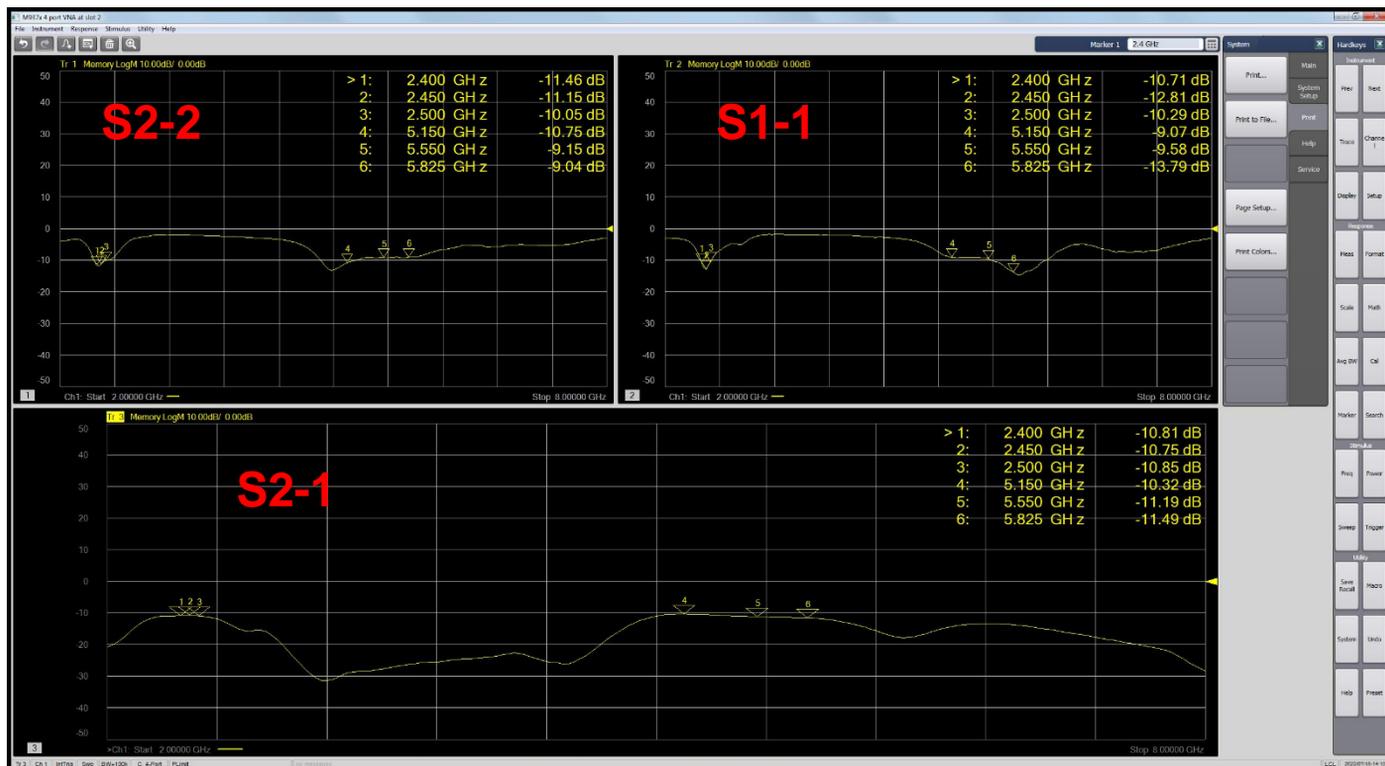
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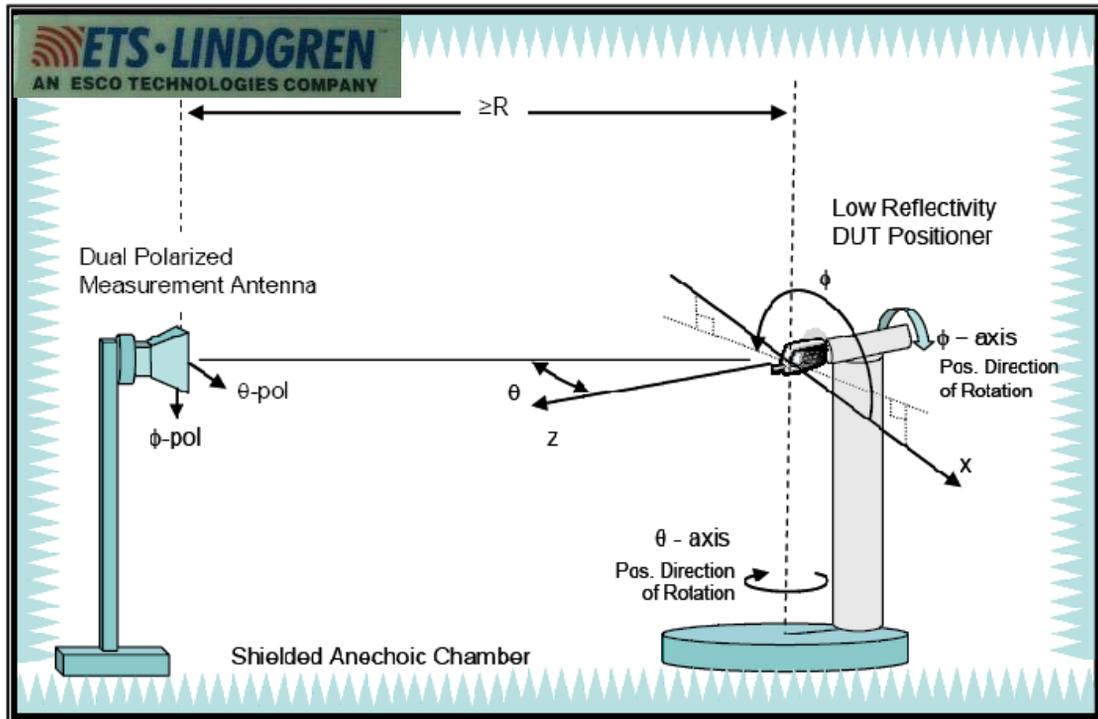
## Antenna Placement

Antenna	Description	Frequency
Ant.1	2.4/5G	2400 MHz ~ 2500 MHz / 5150 MHz ~ 5825 MHz
Ant.2	2.4/5G	2400 MHz ~ 2500 MHz / 5150 MHz ~ 5825 MHz

# S-Parameters



## Equipment : ETS Chamber



## Gain Table

Ant.1						
Frequency (MHz)	2400	2450	2500	5150	5550	5825
Efficiency(%)	31	32	33	42	43	42
Peak Gain(dBi)	-1.4	-0.9	-0.6	0.4	1.8	2.6
Ant.2						
Frequency (MHz)	2400	2450	2500	5150	5550	5825
Efficiency(%)	33	33	34	41	43	43
Peak Gain(dBi)	-1.7	-1.1	-0.9	0.5	2.8	3.0

## The antenna characteristics

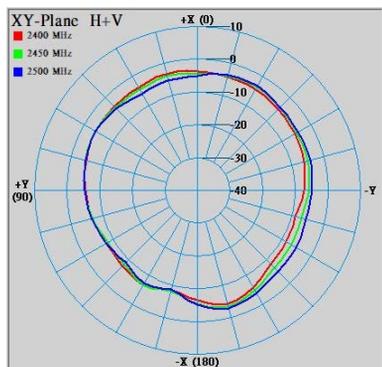
- Return loss < -8dB in operating band
- Isolation
  - All Band > 10 dB
- Efficiency
  - WIFI 2.4GHz Band  $\geq 30\%$
  - WIFI 5GHz Band  $\geq 40\%$
- Gain
  - WIFI 2.4GHz Band -1.7 ~ -0.6dBi
  - WIFI 5GHz Band 0.4 ~ 3.0dBi

# Ant.1\_ 2D.3D Radiation Pattern

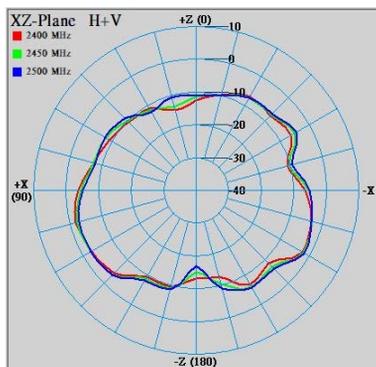
Frequency(MHz) : 2D. 2400~2500  
3D. 2450

Radiation Pattern :

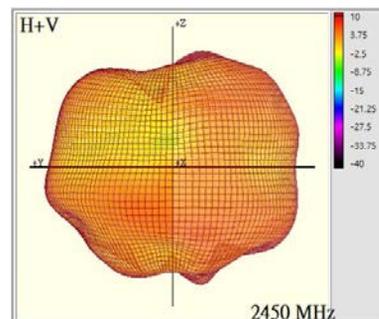
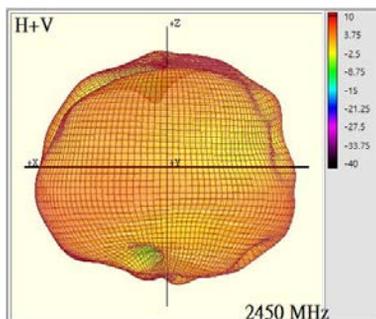
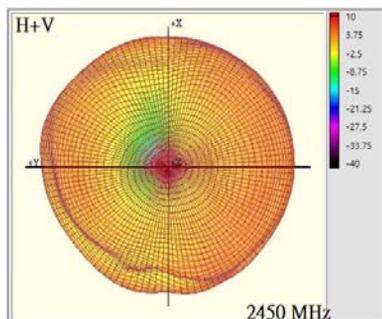
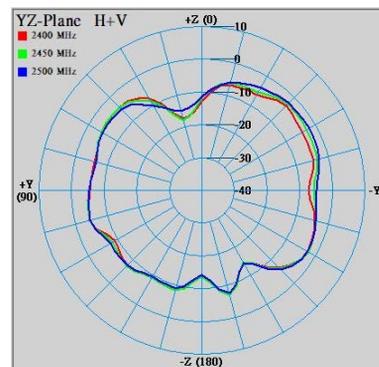
Azimuth Plane



Elevation Plane  
phi = 0



Elevation Plane  
phi = 90

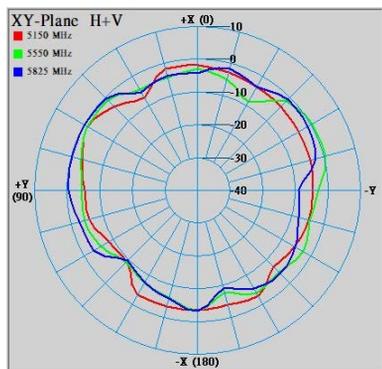


# Ant.1\_ 2D.3D Radiation Pattern

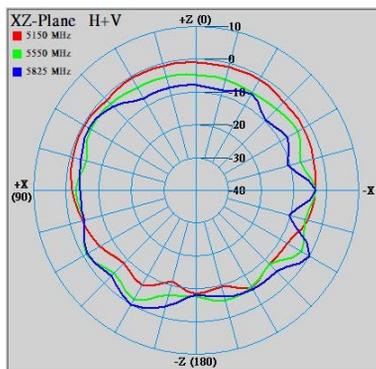
Frequency(MHz) : 2D. 5150~5825  
3D. 5550

Radiation Pattern :

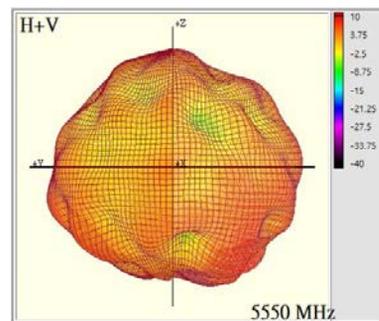
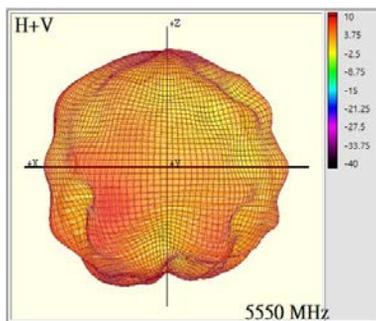
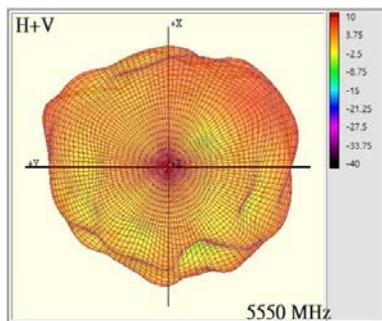
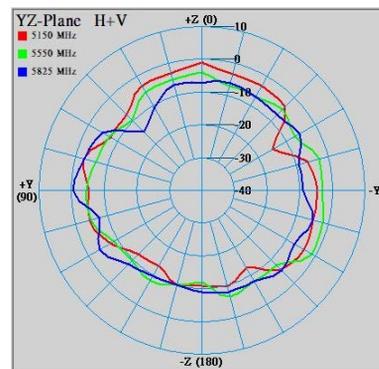
Azimuth Plane



Elevation Plane  
phi = 0



Elevation Plane  
phi = 90

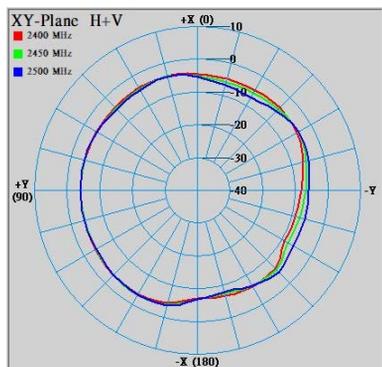


# Ant.2\_ 2D.3D Radiation Pattern

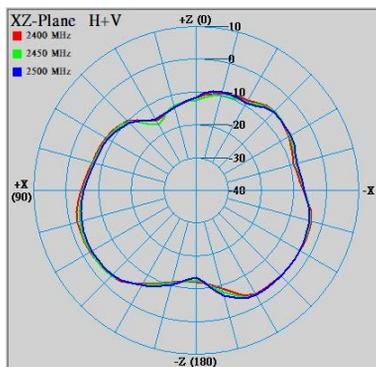
Frequency(MHz) : 2D. 2400~2500  
3D. 2450

Radiation Pattern :

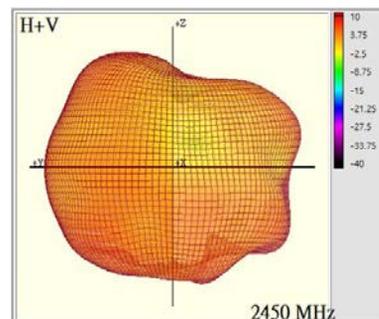
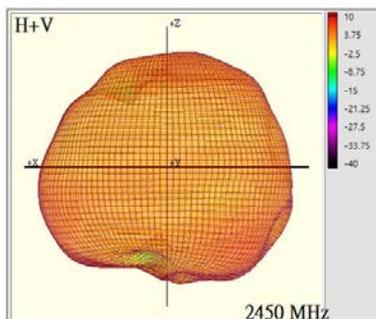
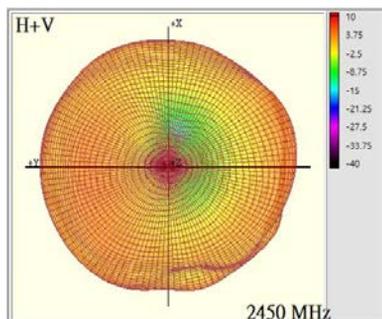
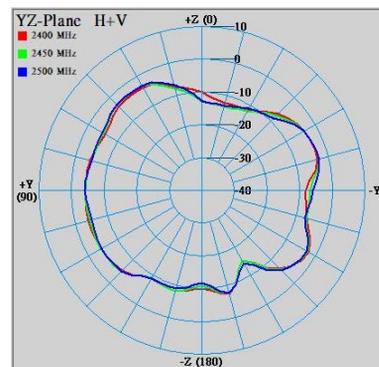
Azimuth Plane



Elevation Plane  
phi = 0



Elevation Plane  
phi = 90

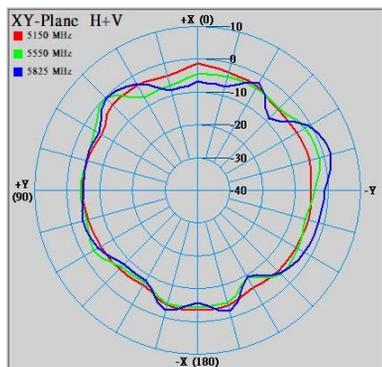


# Ant.2\_ 2D.3D Radiation Pattern

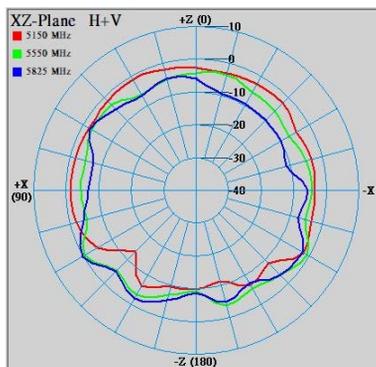
Frequency(MHz) : 2D. 5150~5825  
3D. 5550

Radiation Pattern :

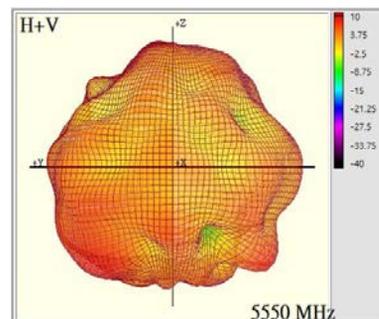
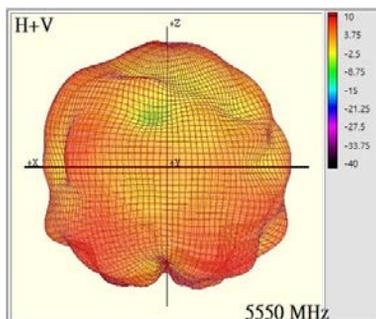
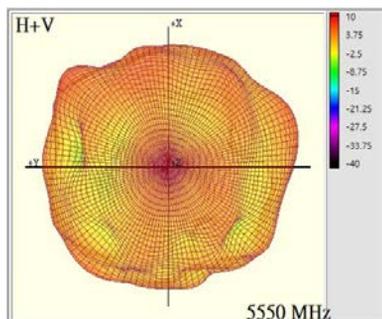
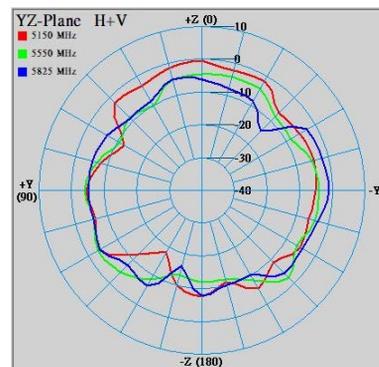
Azimuth Plane



Elevation Plane  
phi = 0



Elevation Plane  
phi = 90



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