



# Signify Wiz Camera Module Antenna Test Report

Apr. 20, 2023

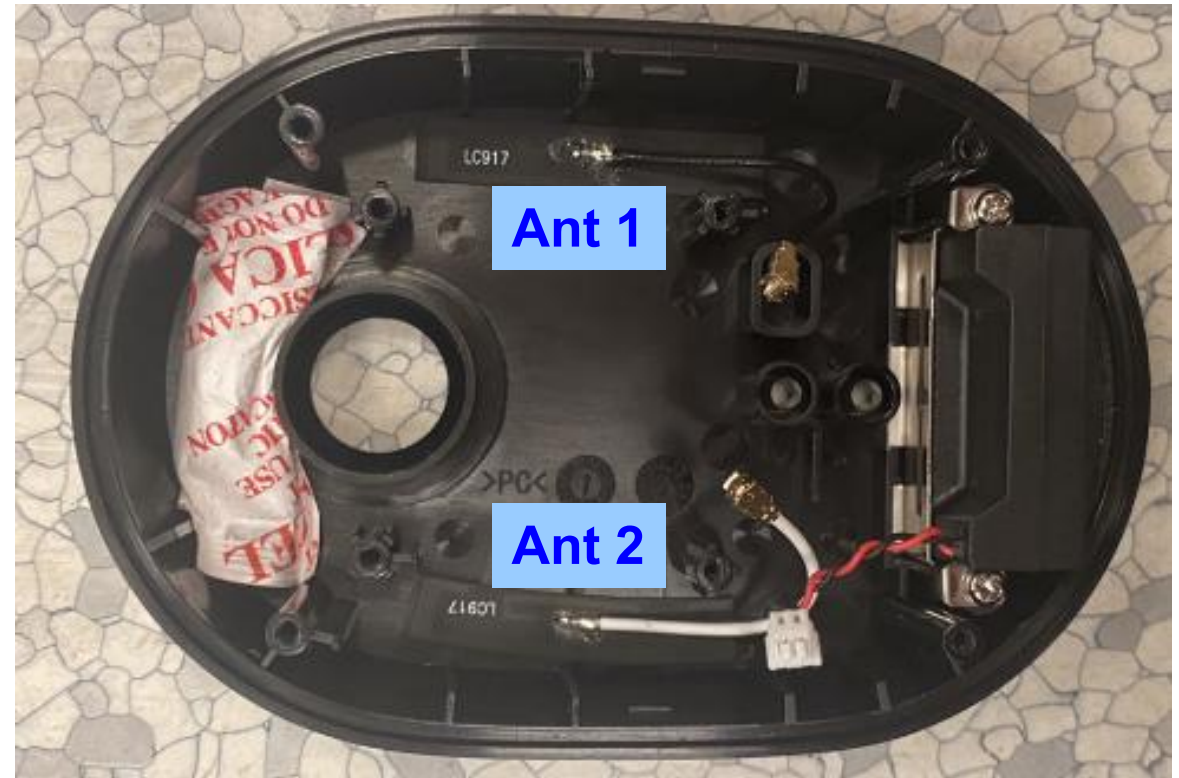
Prepared by Carl Hung

# Outline

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- Antenna Structure & Placement
- Return Loss & Isolation
- Radiation Pattern
- System Coverage
- Peak Gain & Efficiency

# Antenna Structure & Placement

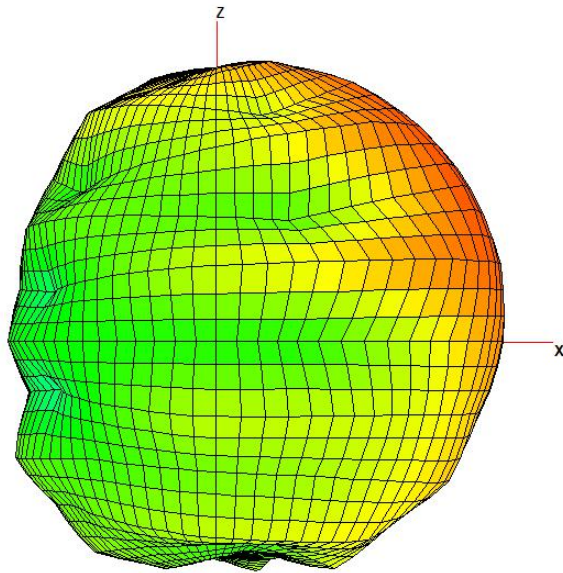
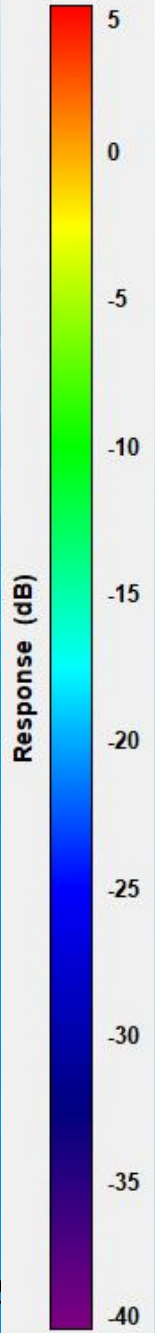


Ant No.	Operating Band	Type	Material	Feeding	Dimension
Ant 1	WiFi 2.4G	Dipole	FPCB	Cable	35 x 6.5 mm <sup>2</sup>
Ant 2	WiFi 2.4G	Dipole	FPCB	Cable	32.6 x 7.7 mm <sup>2</sup>

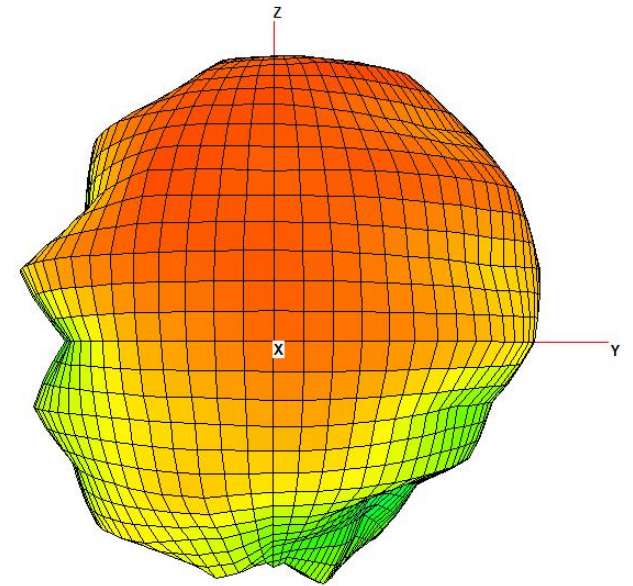
# Return Loss & Isolation



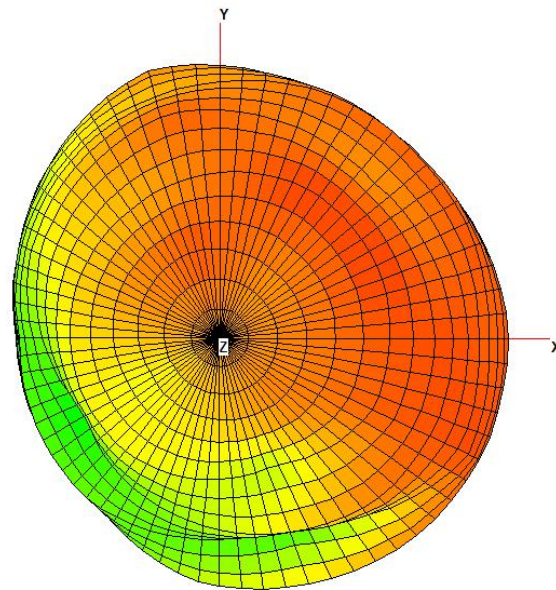
# 3D Radiation Pattern – Ant 1 @ 2.45GHz



ZX Plane

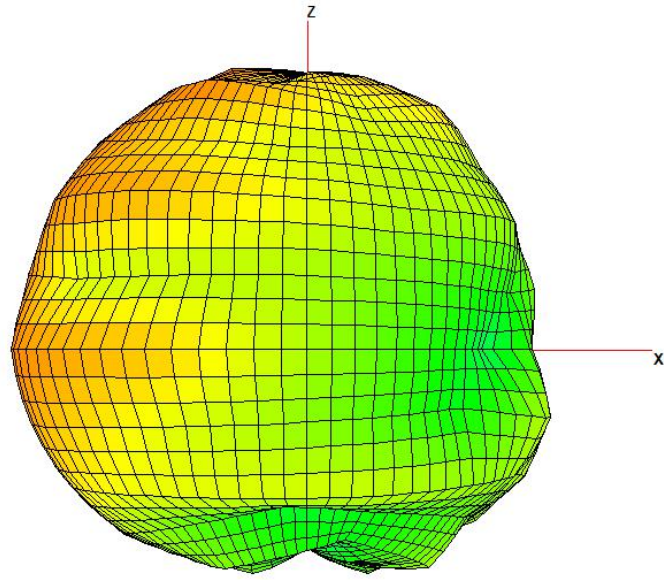
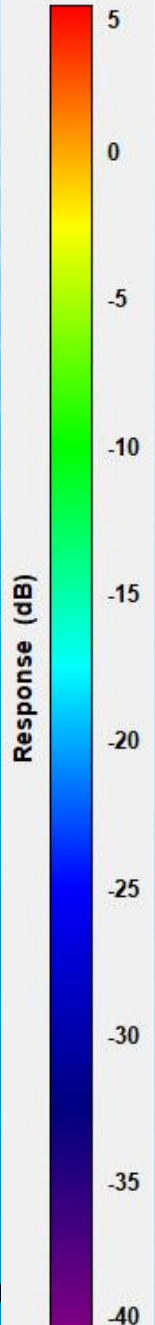


ZY Plane

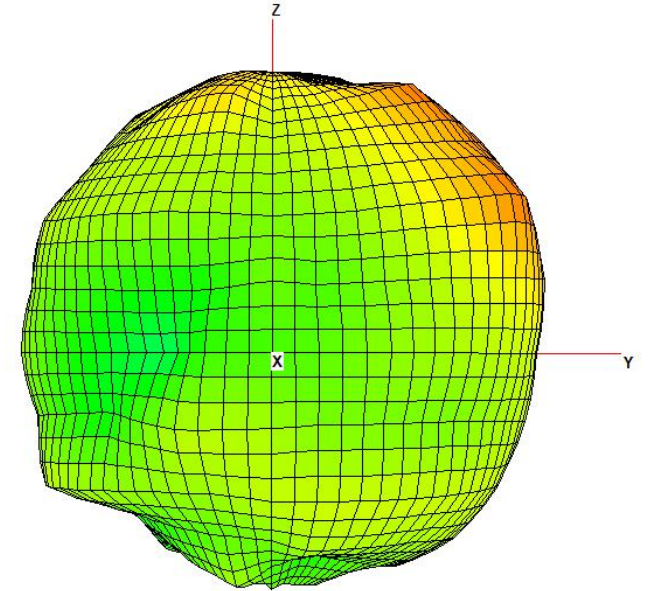


YX Plane

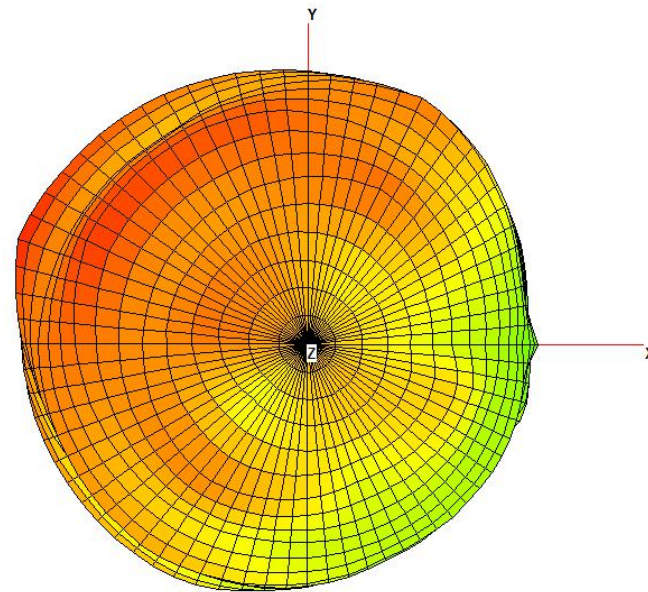
# 3D Radiation Pattern – Ant 2 @ 2.45GHz



ZX Plane

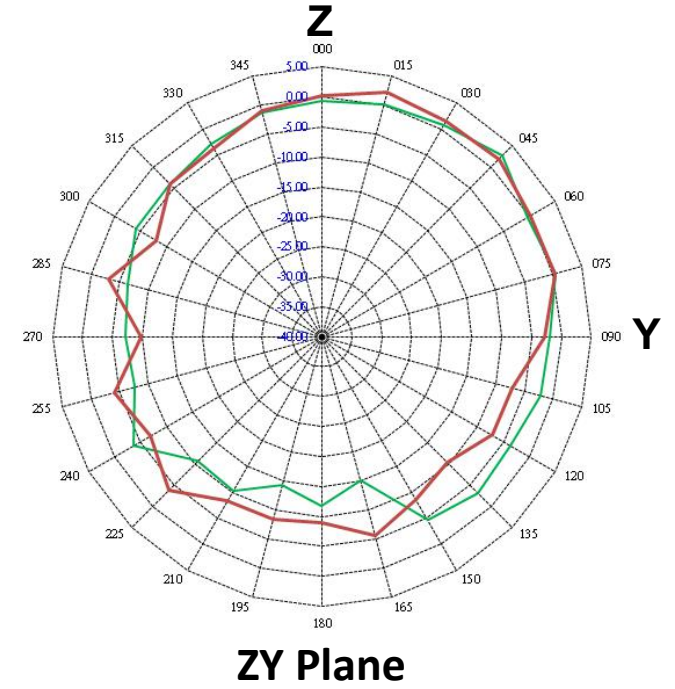
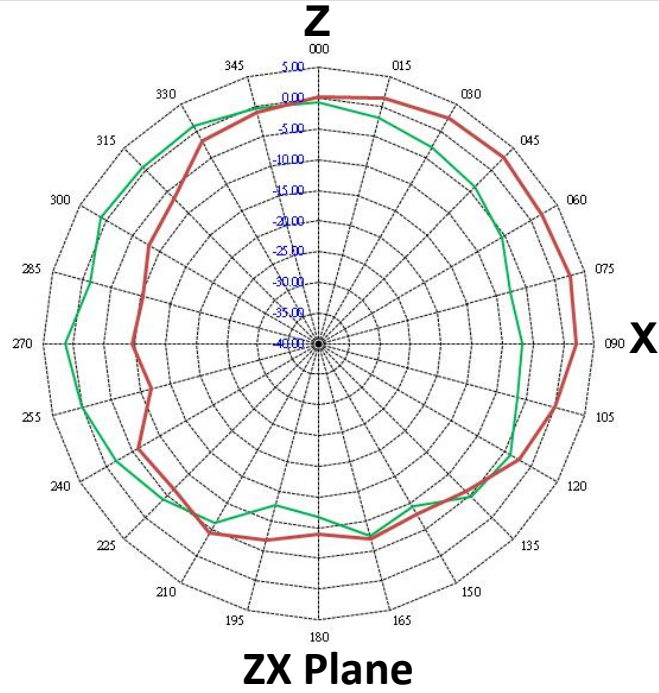


ZY Plane

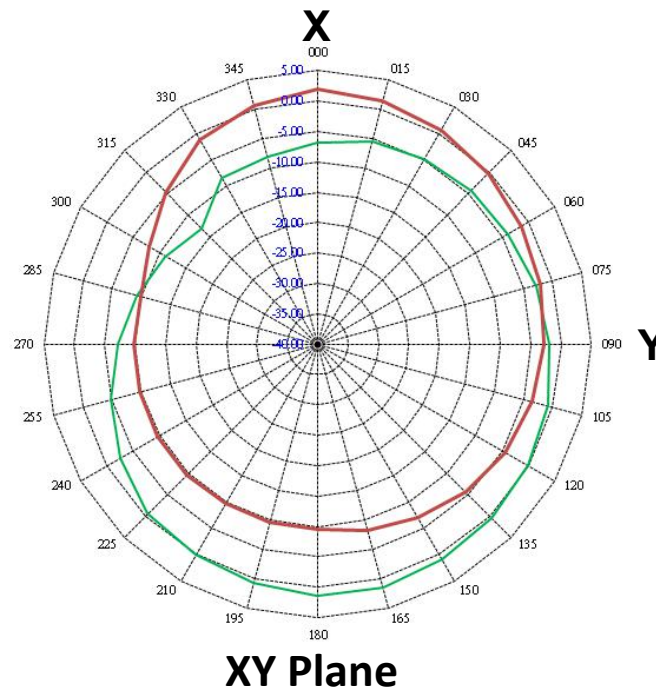


YX Plane

# System Coverage @ 2.45GHz



- Ant 1
- Ant 2



# Peak Gain & Efficiency

Ant 1 WiFi 2G		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400 MHz	3.28	56.9
2450 MHz	3.48	60.4
2500 MHz	3.72	63.5

Ant 2 WiFi 2G		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400 MHz	4.37	64.0
2450 MHz	4.45	63.7
2500 MHz	4.33	61.2



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