



# Pradco Phillis Hunting Camera BLE Antenna Test Report

Mar. 01, 2023

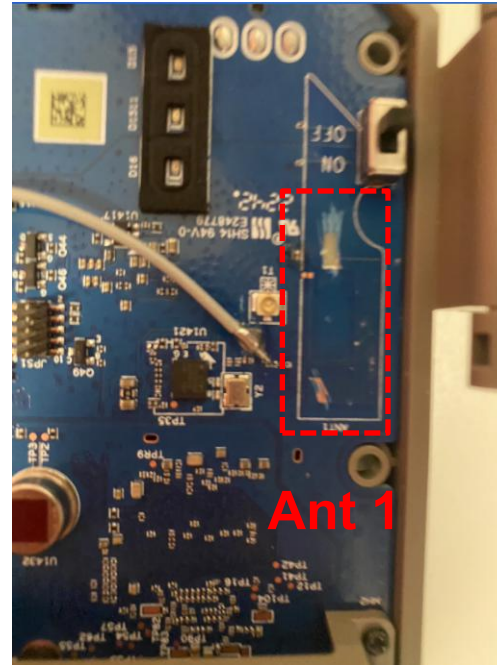
Prepared by Carl Hung

# Outline

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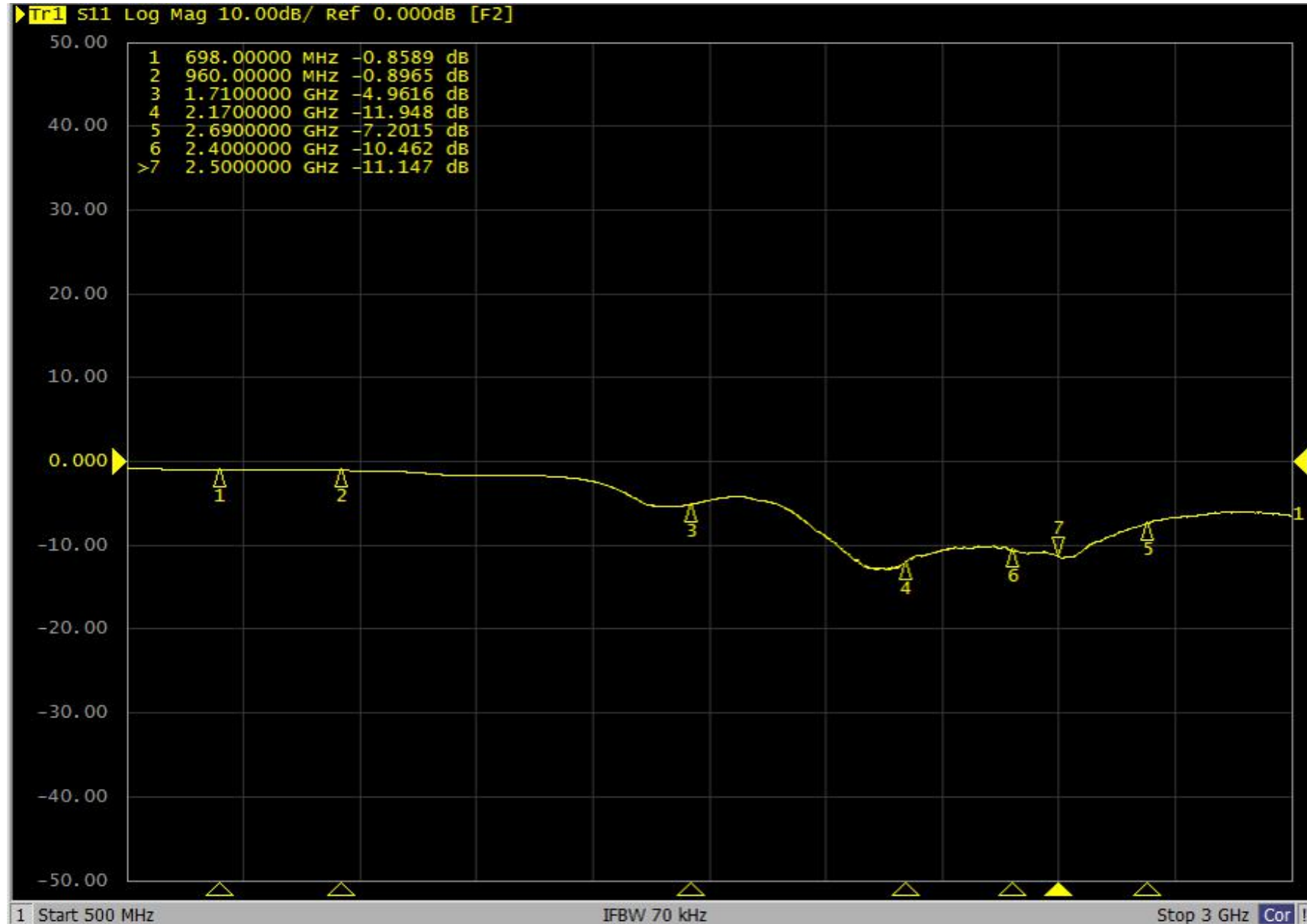
- Antenna Structure & Placement
- Return Loss
- Isolation
- Radiation Pattern
- System Coverage
- Peak Gain & Efficiency

# Antenna Structure & Placement

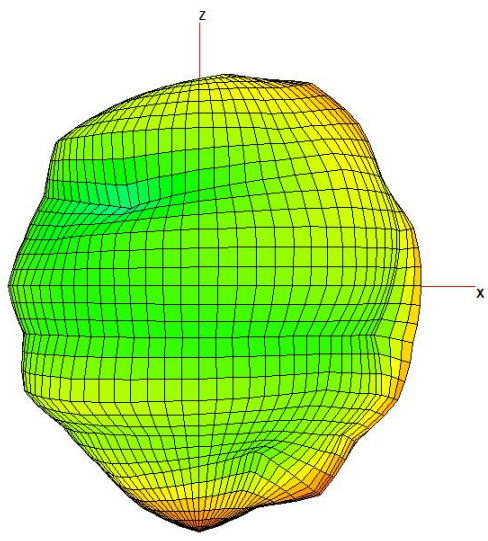
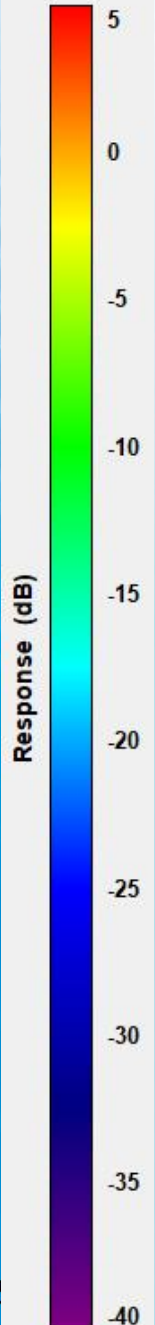


Ant No.	Operating Band	Type	Material	Feeding	Dimension
Ant 1	WiFi 2.4G	PIFA	Printed	Trace	41.13 x 10 mm <sup>2</sup>

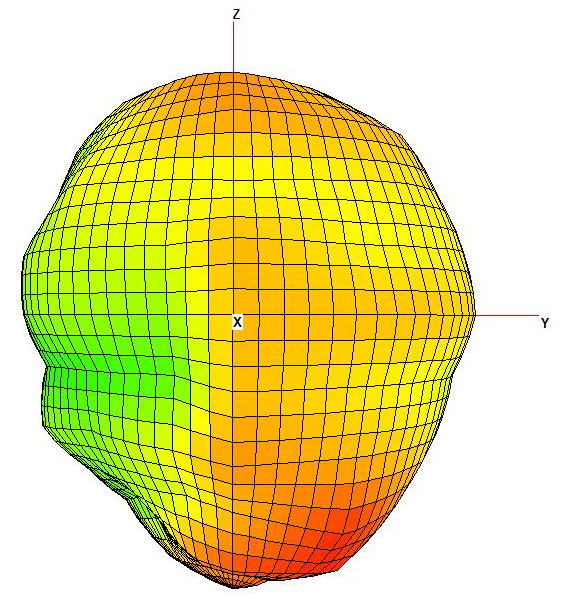
# Return Loss @ BLE



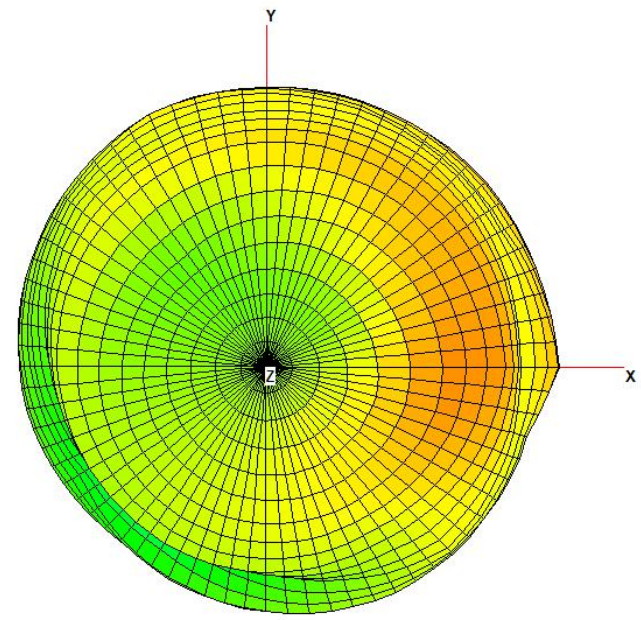
# 3D Radiation Pattern – BLE@ 2.45GHz



ZX Plane

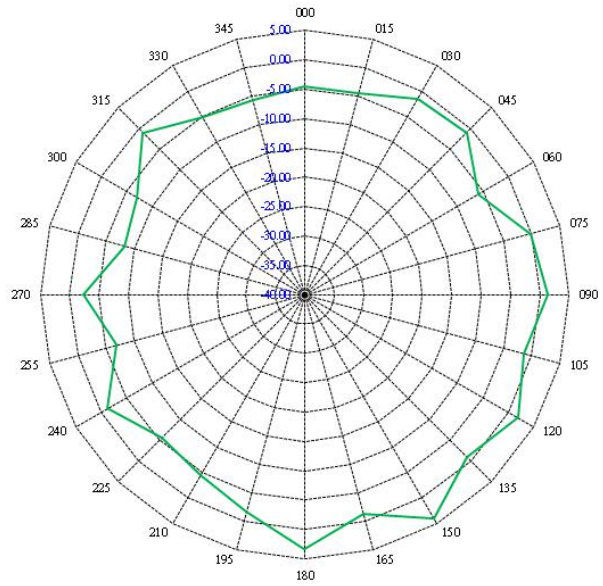


ZY Plane

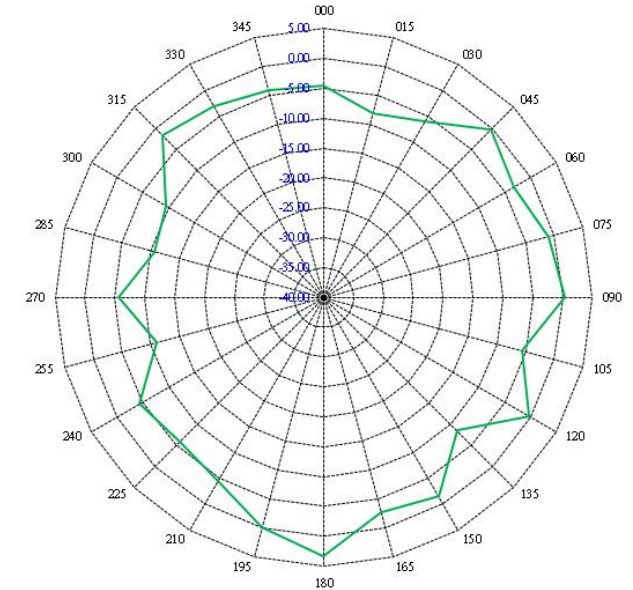


YX Plane

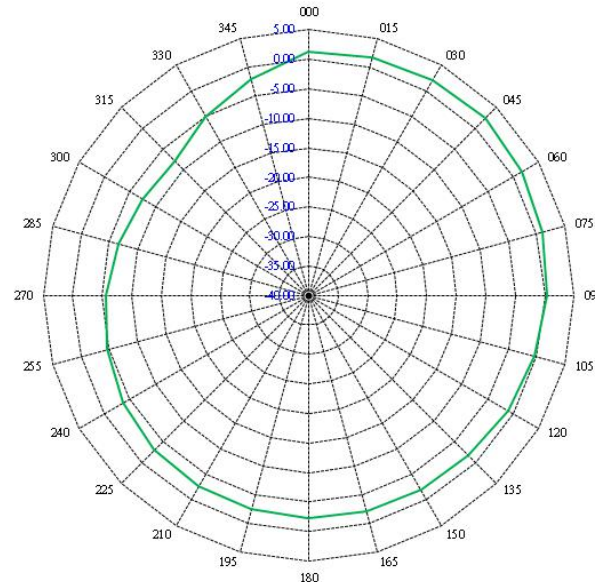
# System Coverage – BLE @ 2.45GHz



ZX Plane



ZY Plane



XY Plane

# Peak Gain & Efficiency

Ant 1 (BLE)		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400 MHz	4.85	57.7
2450 MHz	4.89	59.0
2500 MHz	4.36	65.6

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