

Luca Antenna Test Report

1. Test Setup

Test Equipment: MVG SG64 anechoic chamber

Data Capture: 3D sphere gain pattern across the operating bands

Product Placement: antennas centered in the chamber coordinate system

2. Antenna Information

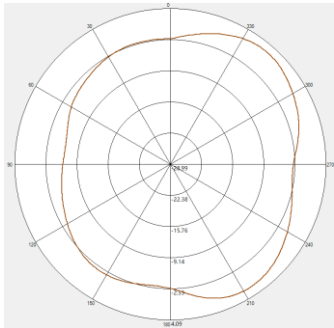
Antenna Description	RF Operating Band	Antenna Type
Wi-Fi 1	2.4, 5 and 6GHz	PCB etched antenna
Wi-Fi 2	2.4GHz	PCB etched antenna
BT	2.4GHz	FPC antenna

3. Antenna Peak Gain

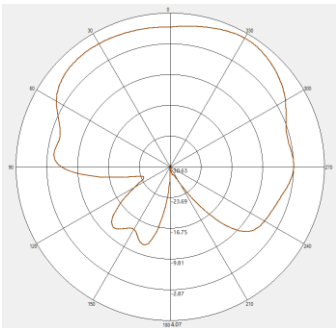
Antenna	Operating Frequency	Peak Gain (dBi)
Wi-Fi 1	ISM 2.4GHz	4.86
	U-NII-1 5170-5250MHz	5.48
	U-NII-3-4 5735-5995MHz	6.04
	U-NII-5 5925-6425MHz	6.24
	U-NII-6 6425-6525MHz	6.1
	U-NII-7 6525-6865MHz	6.39
	U-NII-8 6865-7125MHz	6.1
Wi-Fi 2	ISM 2.4GHz	5.5
BT	ISM 2.4GHz	5.16

Note: The measurements were carried out on a fully assembled product.

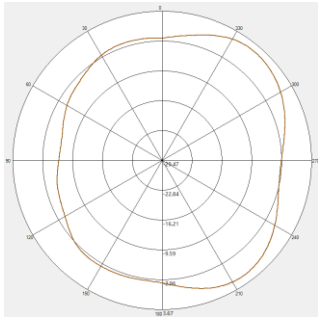
WiFi1-2.4G



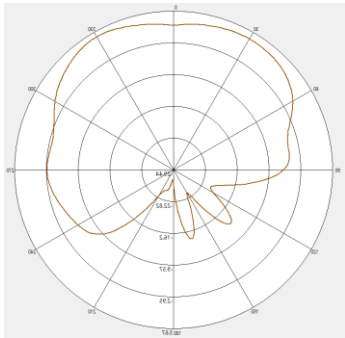
2400MHZ V-pol



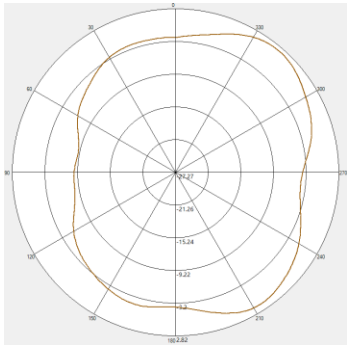
2400MHZ H-pol



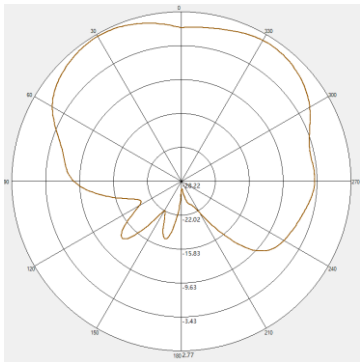
2450MHZ V-pol



2450MHZ H-pol

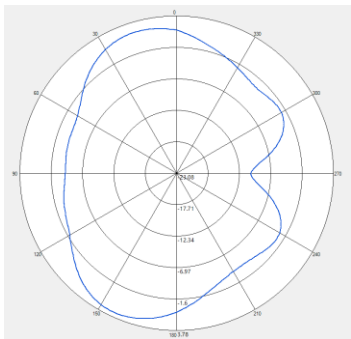


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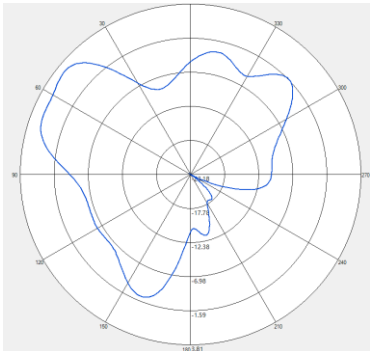


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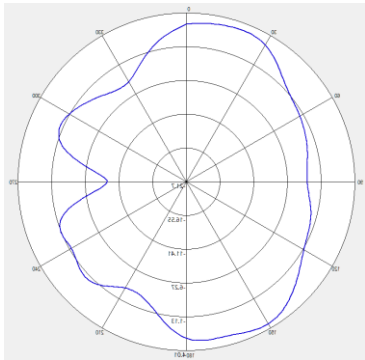
WiFi1-5G



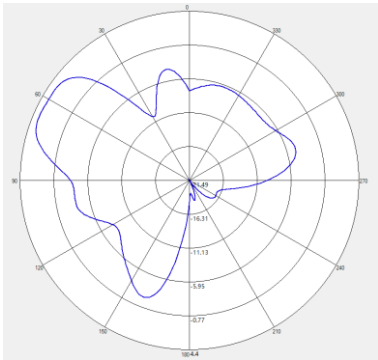
5150MHZ V-pol



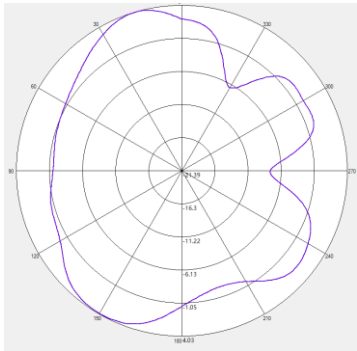
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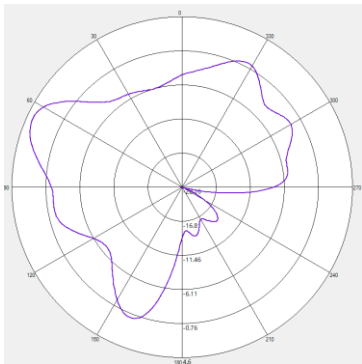
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5500MHZ H-pol

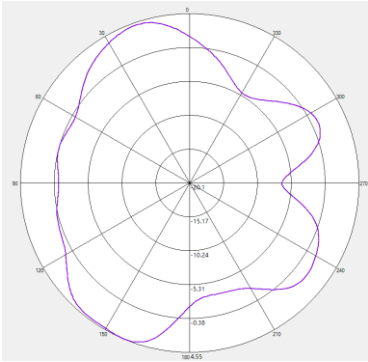


5850MHZ V-pol

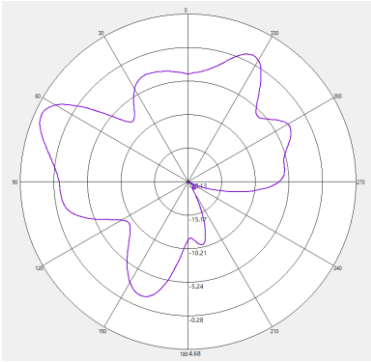


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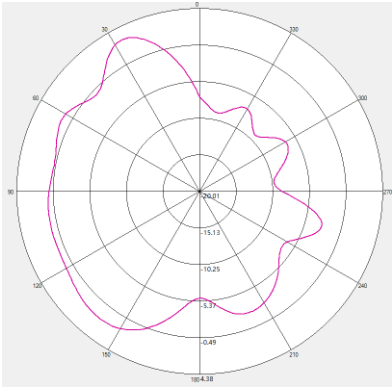
WiFi1-6G



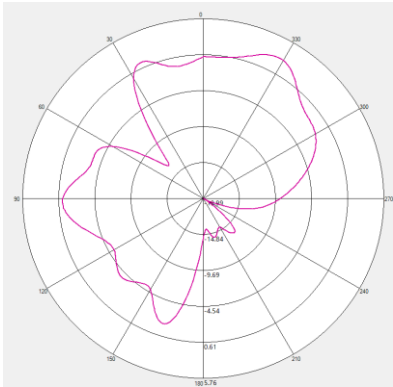
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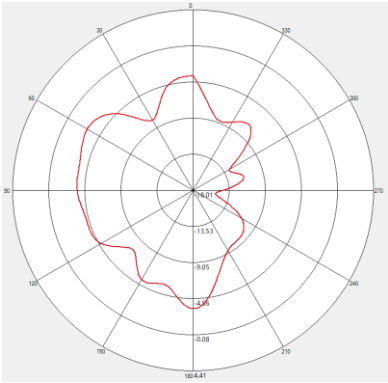
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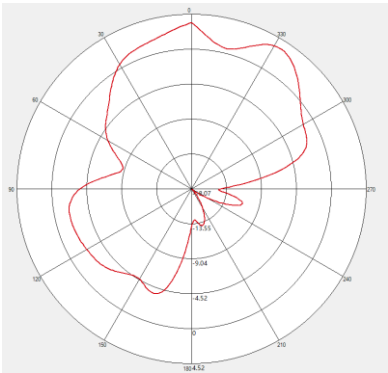
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6550MHZ H-pol



7120MHZ V-pol



7120MHZ H-pol

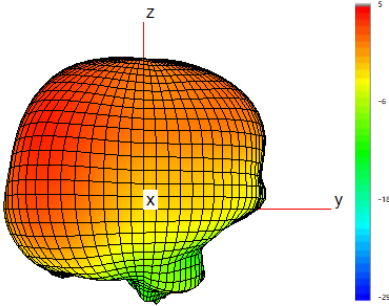
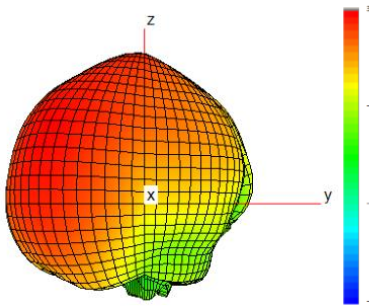
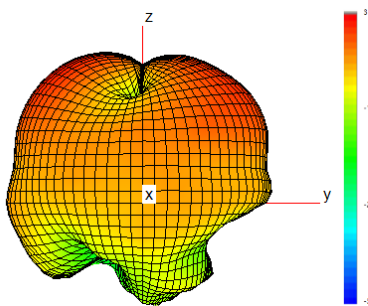
3D

2400MHZ 3D

V-pol

H-pol

Total

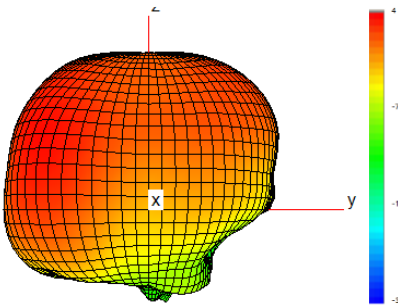
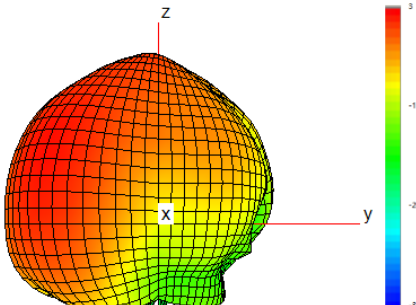
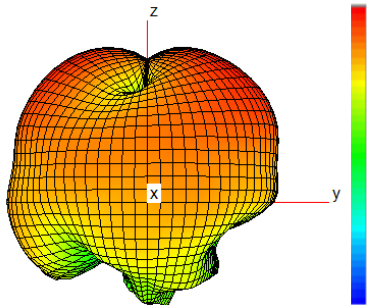


2450MHZ 3D

V-pol

H-Pol

Total

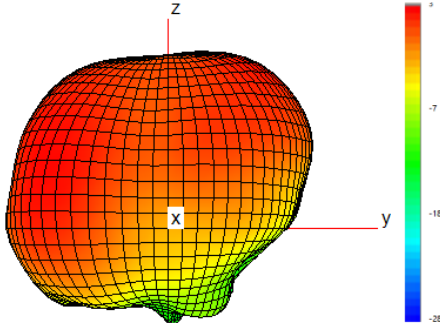
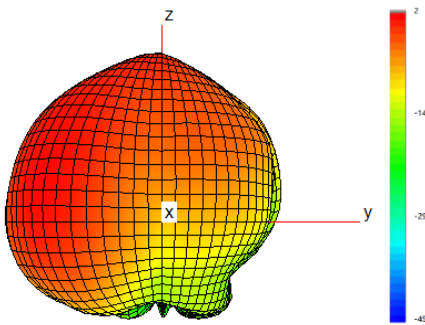
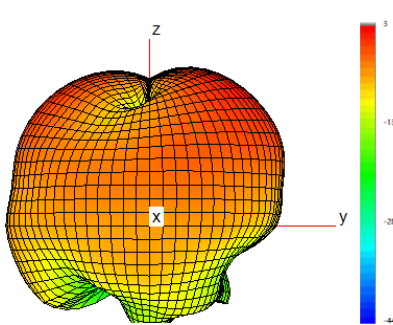


2500MHZ 3D

V-pol

H-Pol

Total

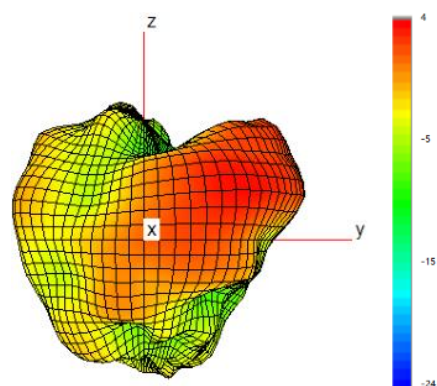
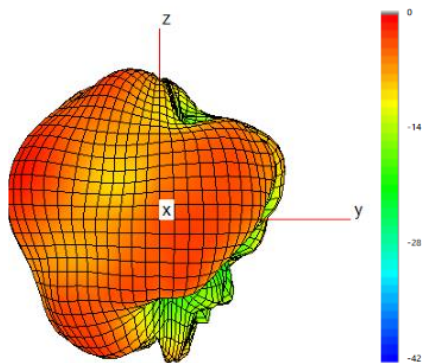
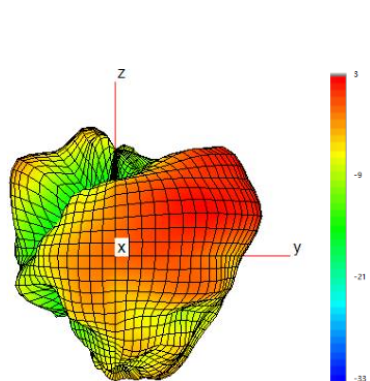


5150MHZ 3D

V-pol

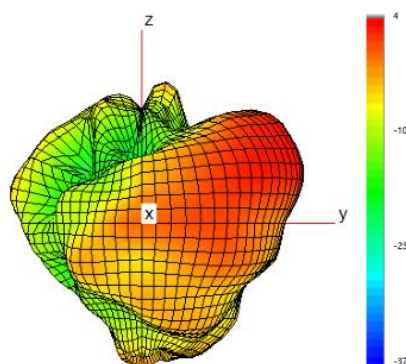
H-Pol

Total

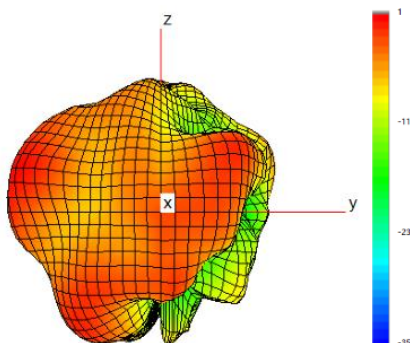


5550MHZ 3D

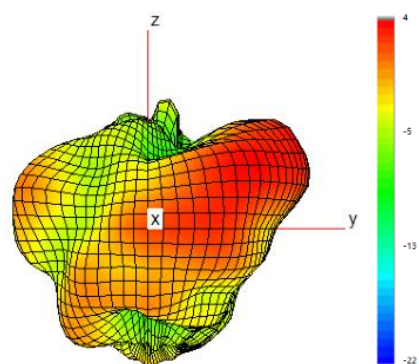
V-pol



H-Pol

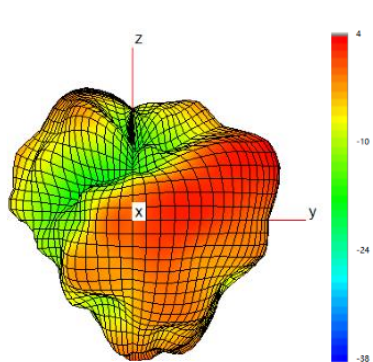


Total

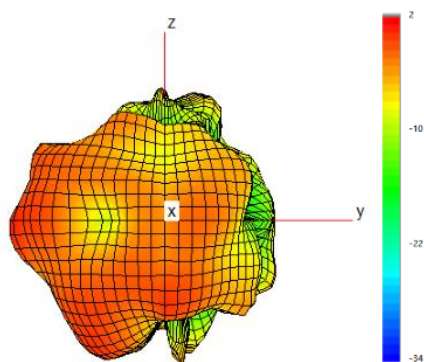


5850MHZ 3D

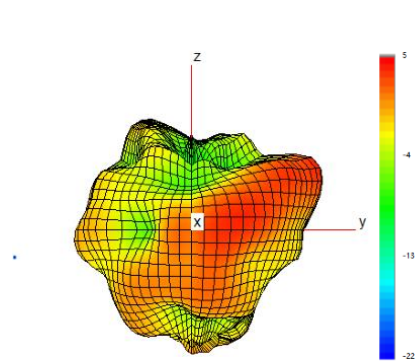
V-pol



H-Pol



Total

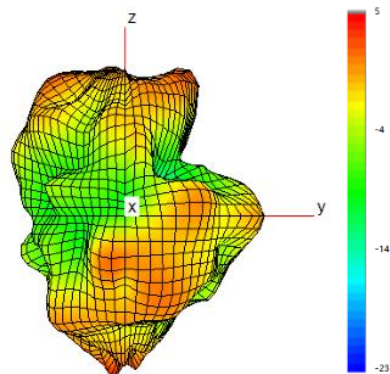
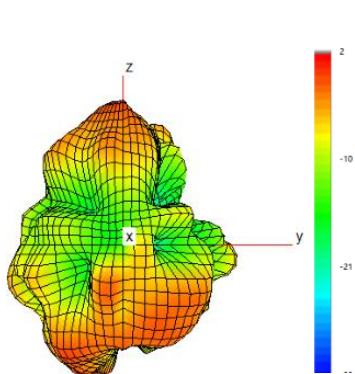
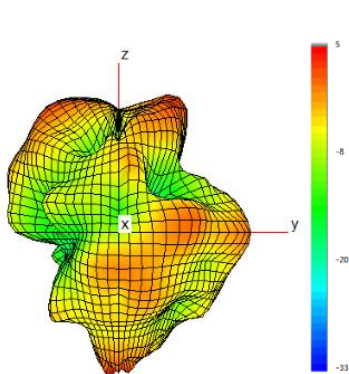


6550MHZ 3D

V-pol

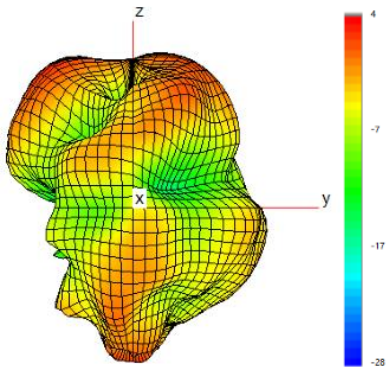
H-Pol

Total

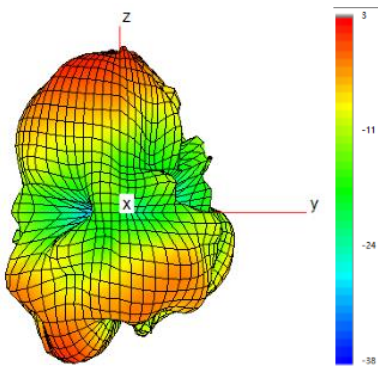


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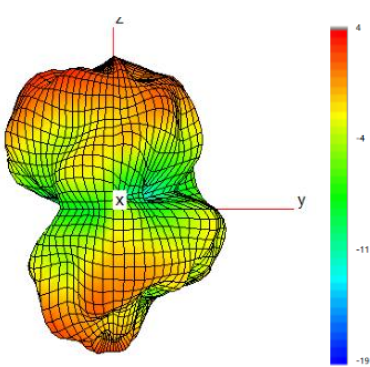
V-pol



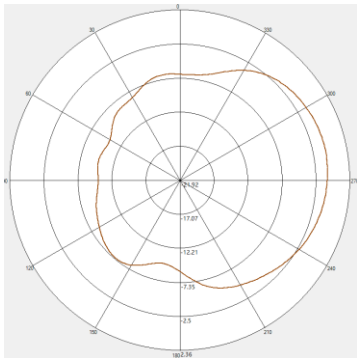
H-Pol



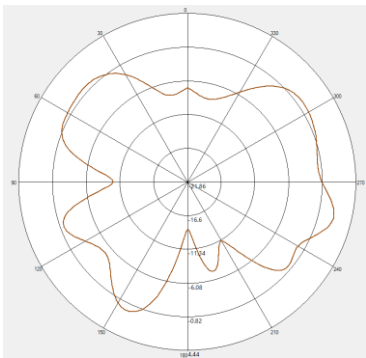
Total



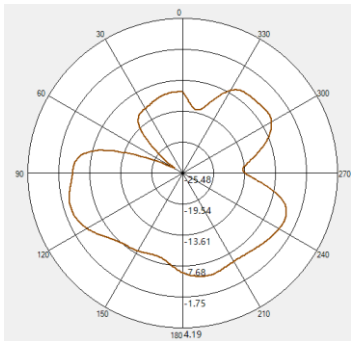
WiFi2-2.4G



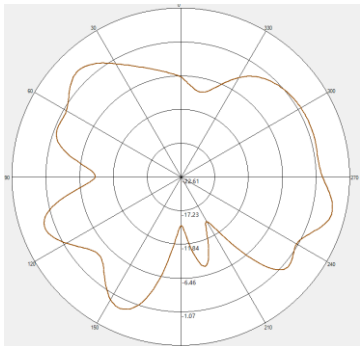
2400MHZ V-pol



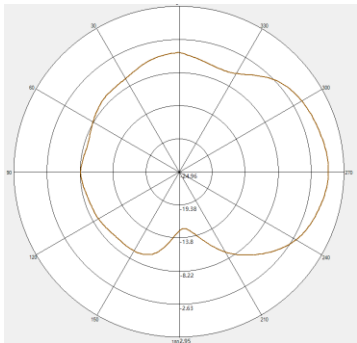
2400MHZ H-pol



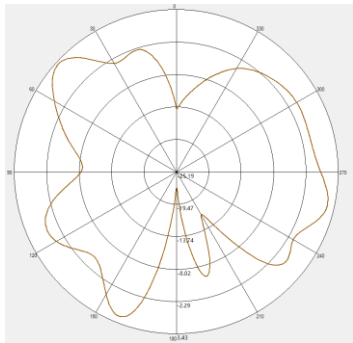
2450MHZ V-pol



2450MHZ H-pol



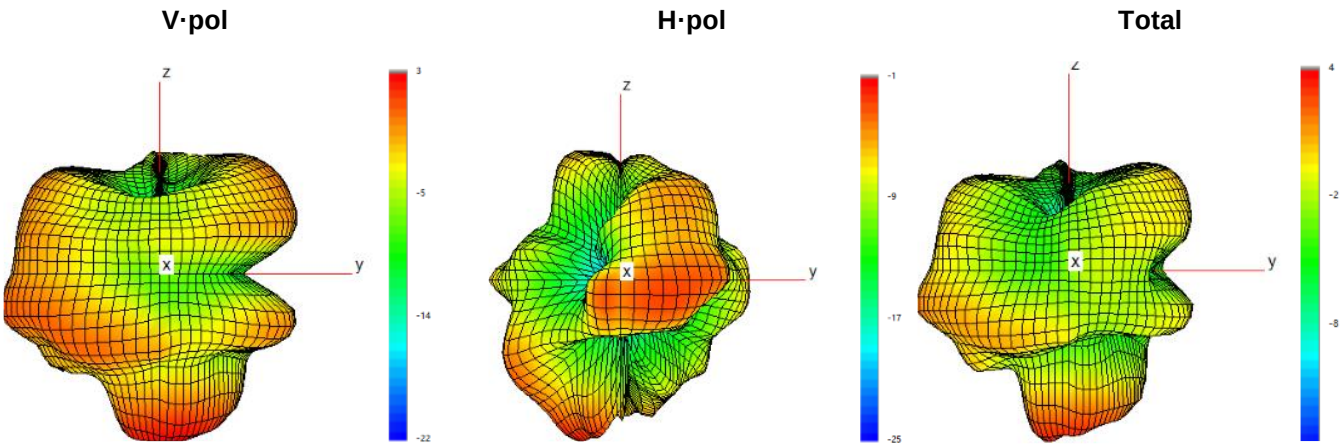
2500MHZ V-pol



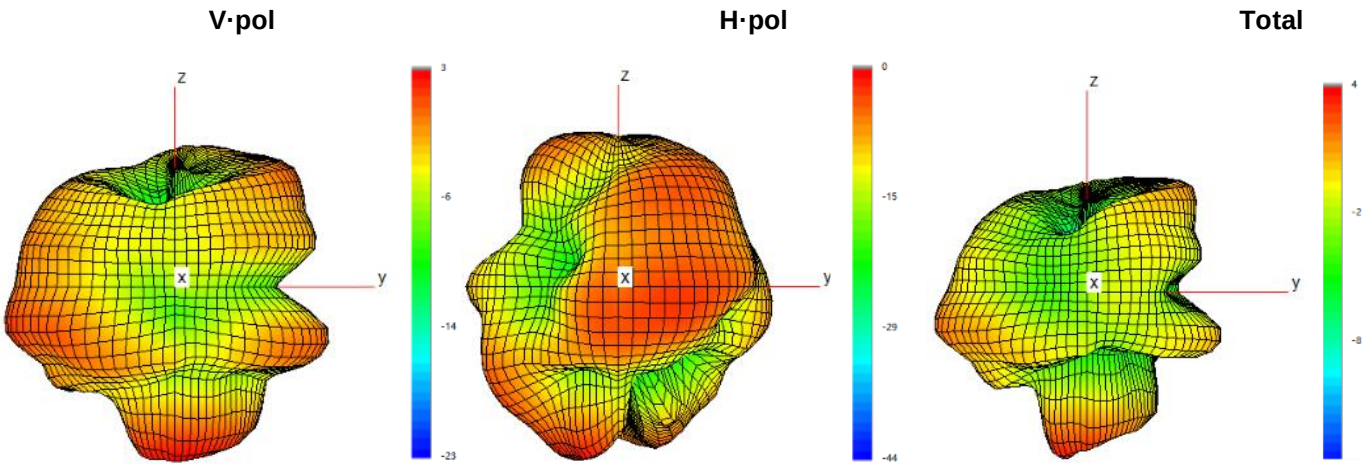
2500MHZ H-pol

3D

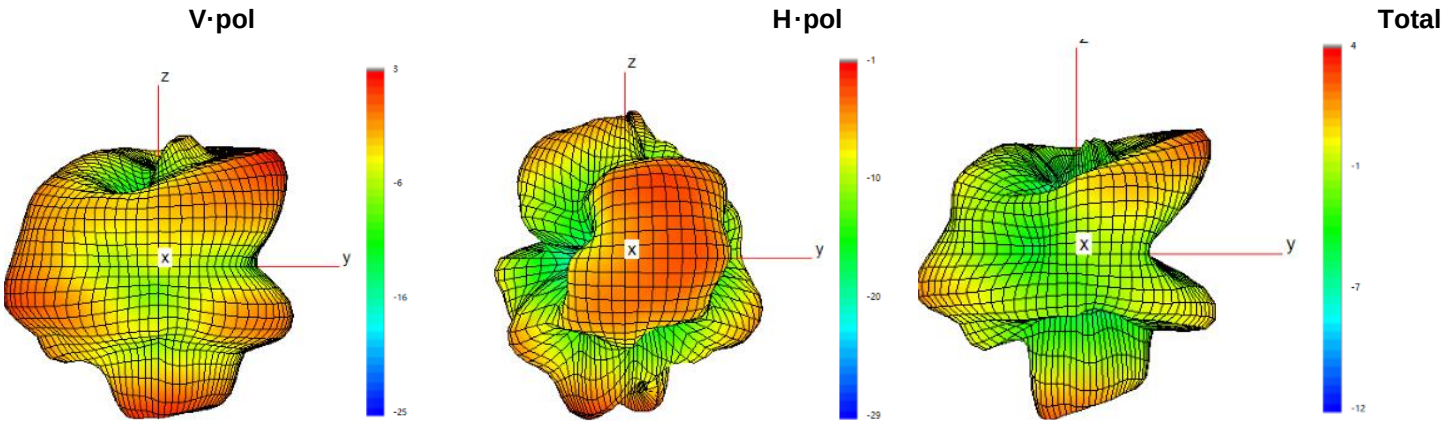
2400MHZ 3D



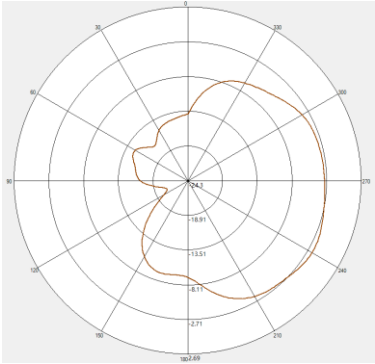
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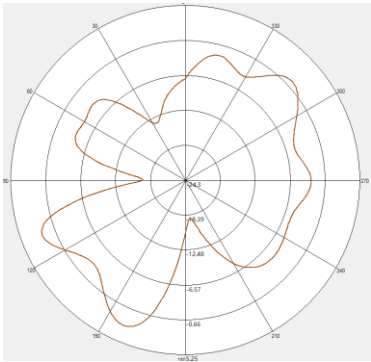
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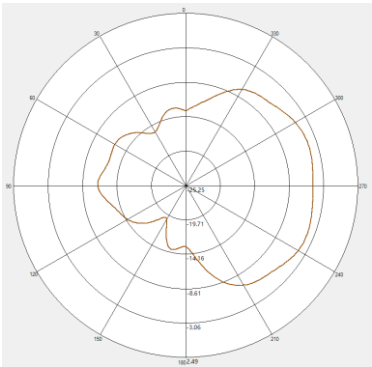
BT



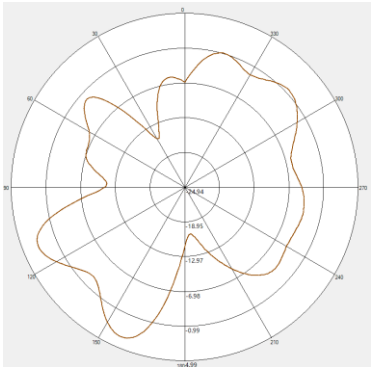
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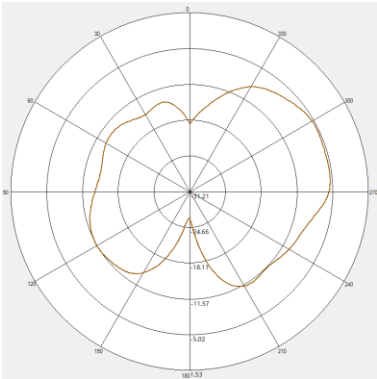
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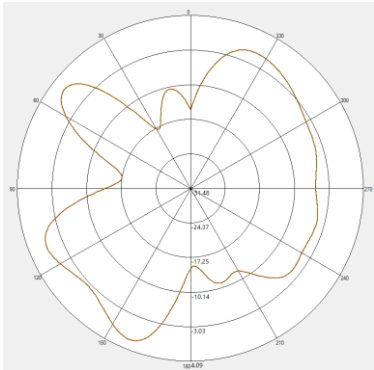
2450MHZ V-pol



2450MHZ H-pol



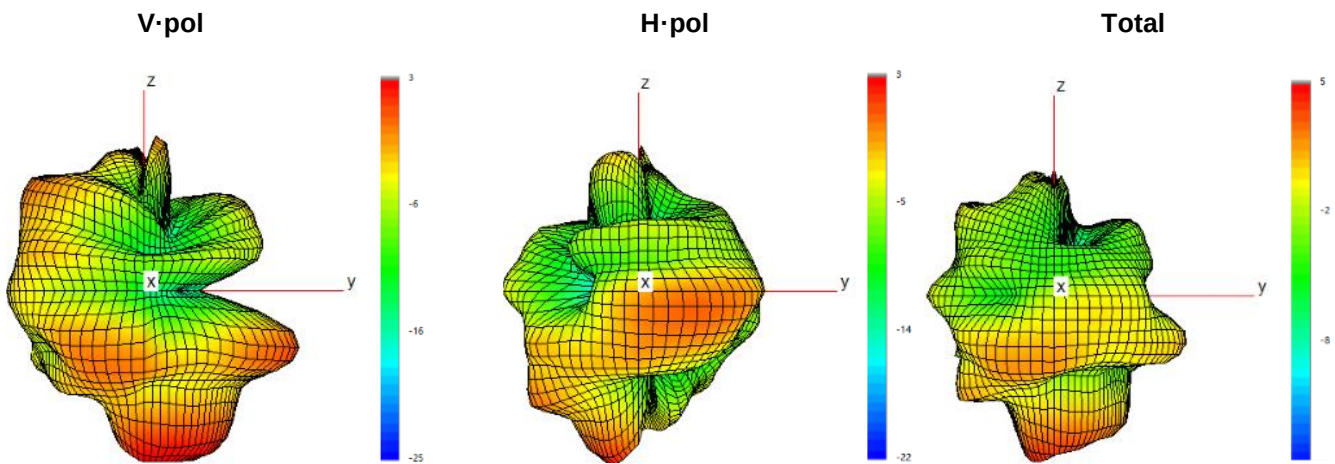
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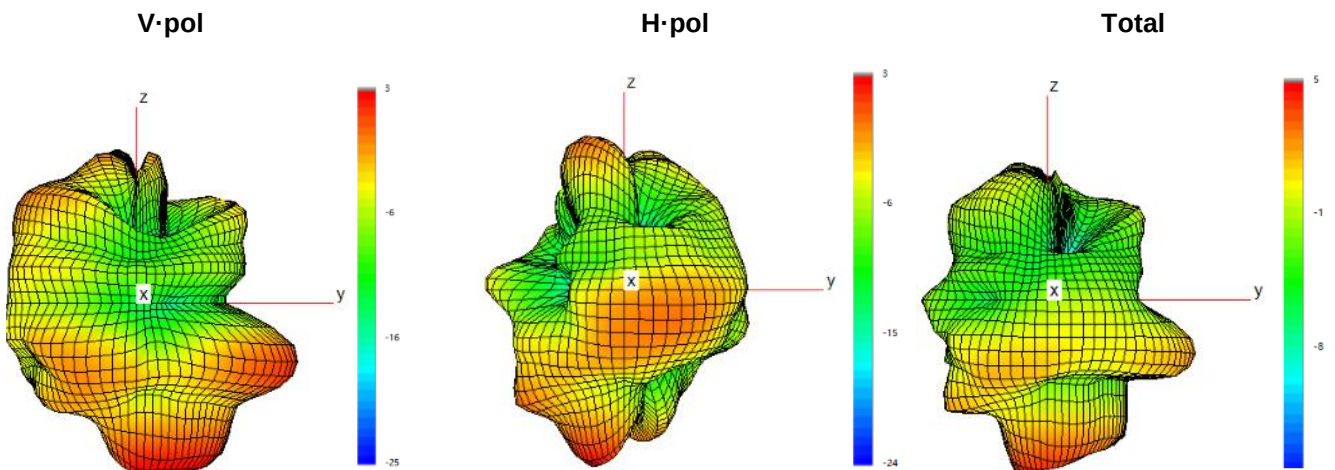
2500MHZ H-pol

3D

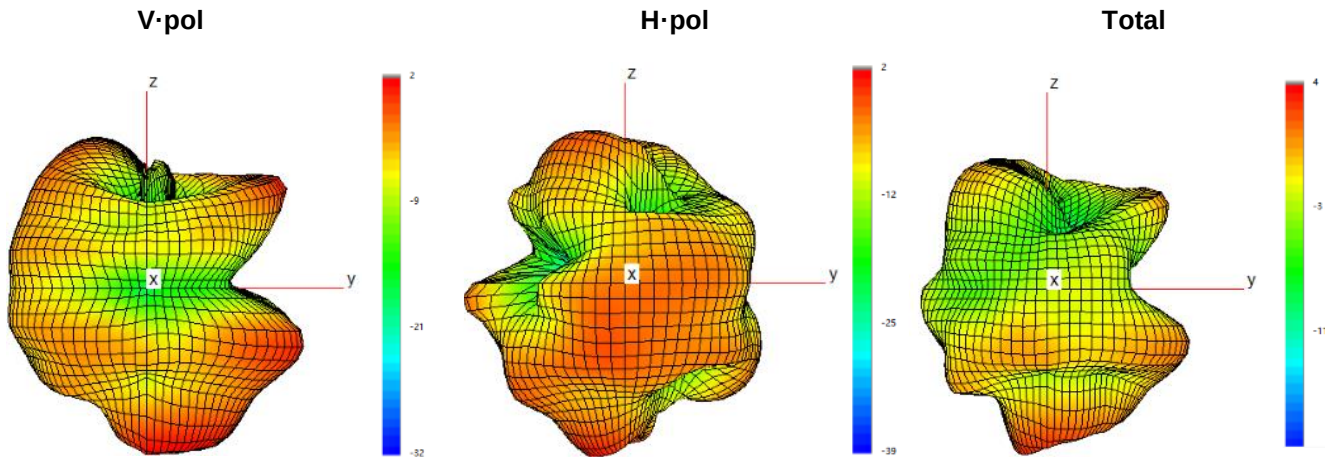
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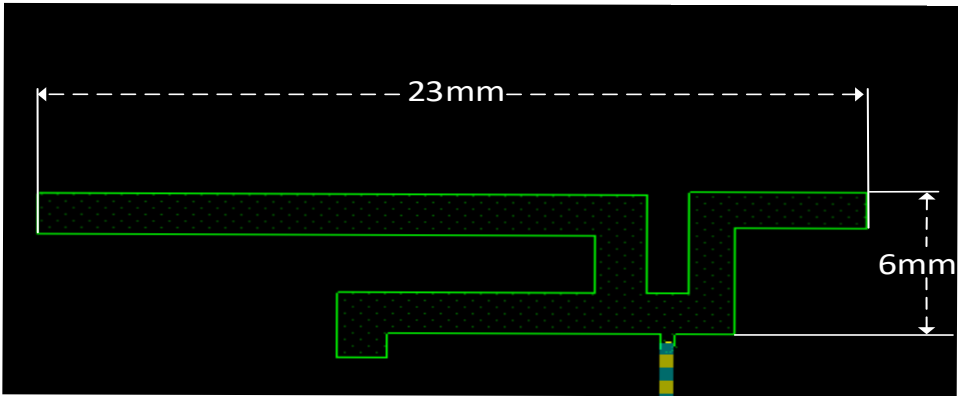
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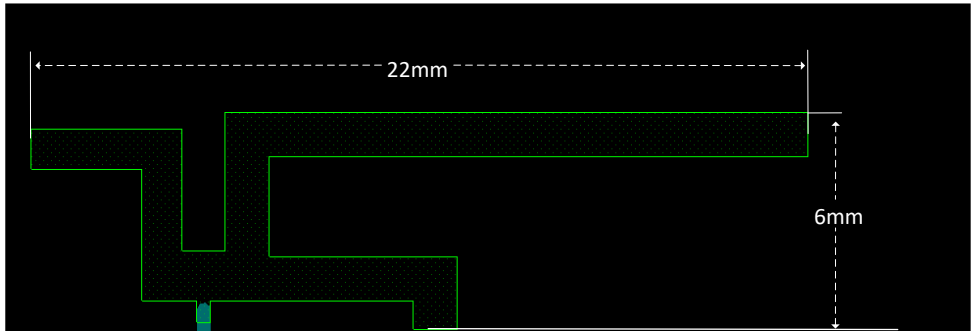
2500MHZ 3D



Antenna-WiFi1



Antenna-WiFi2



Antenna-BT

