

Test Report for Antenna Specifications for

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Frequency range and operation

WiFi-0 2G Antenna: 2.412 to 2.472 GHz

WiFi-0 5G Antenna: 5.18 to 7.115 GHz

Bluetooth/Zigbee Antenna: 2.4 to 2.484 GHz

Antenna type

WiFi-0 2G Antenna: Ceramic Block Patch

WiFi-0 5G Antenna: Ceramic Block Patch

Bluetooth/ Zigbee Antenna: Ceramic Block Patch

Antenna Gain

Band	Peak Gain (dBi)		
	2G Wi-Fi ANT0	5G Wi-Fi ANT0	BT/BLE/Zigbee ANT
2.4GHz(2400-2480MHz)	2		4
5GHz Band I (5150-5250MHz)		4.5	
5GHz Band II-A (5250-5350MHz)		4.5	
5GHz Band II-C (5470-5725MHz)		5	
5GHz Band III (5725-5850MHz)		6	

Measurement Test method

Solder pigtails on feeding point of antennas and measure passive antenna performance by VNA and OTA chamber system. And the measurement was done in devices level.

Test Engineer:

Bryan, Chan

Test Equipment used:

1. VNA: KEYSIGHT E5071C
2. OTA chamber: ETS LINDGREN, AMS-8923-142-G

Antenna / Equipment Calibration:

Calibration date: 2025/09/01

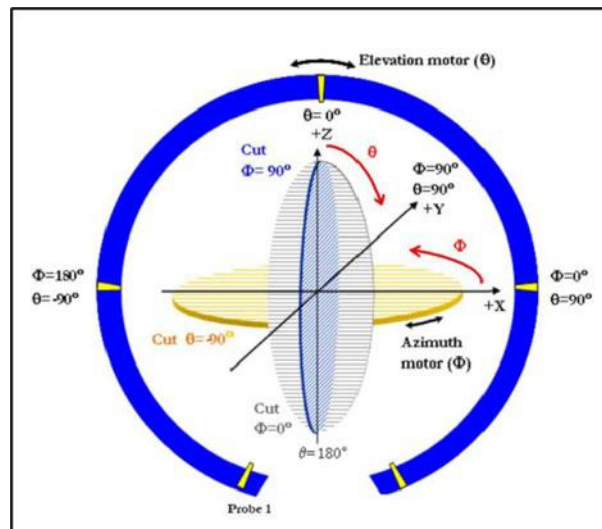
Next calibration date: 2025/12/01

Test Date: 2025/10/08

Test set up

Refer to antenna setup pictures

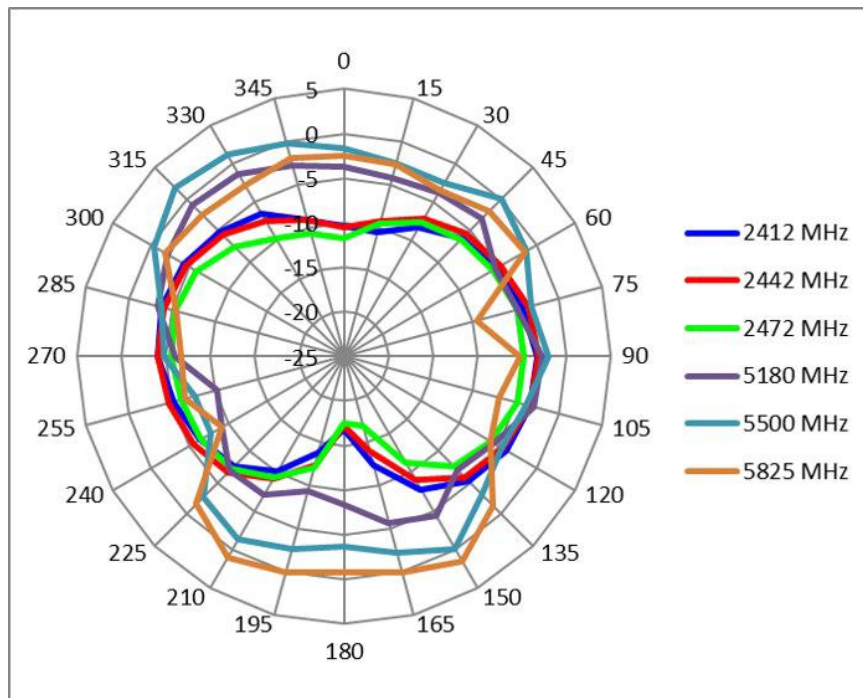
CNT CHAMBER AXIS



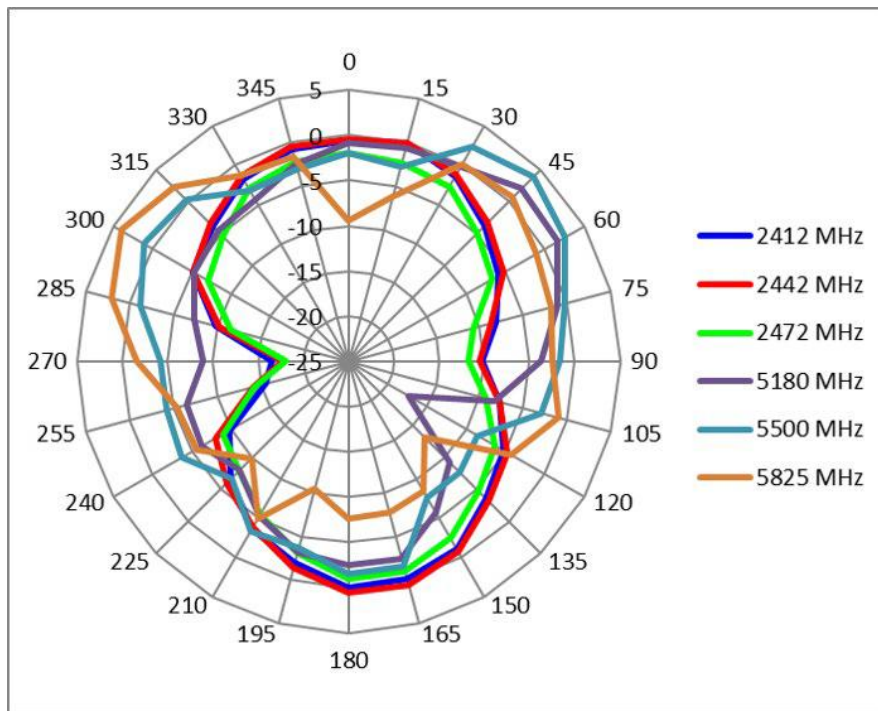
2D RADIATION PATTERN (FS)

WiFi0 2/5G Antenna

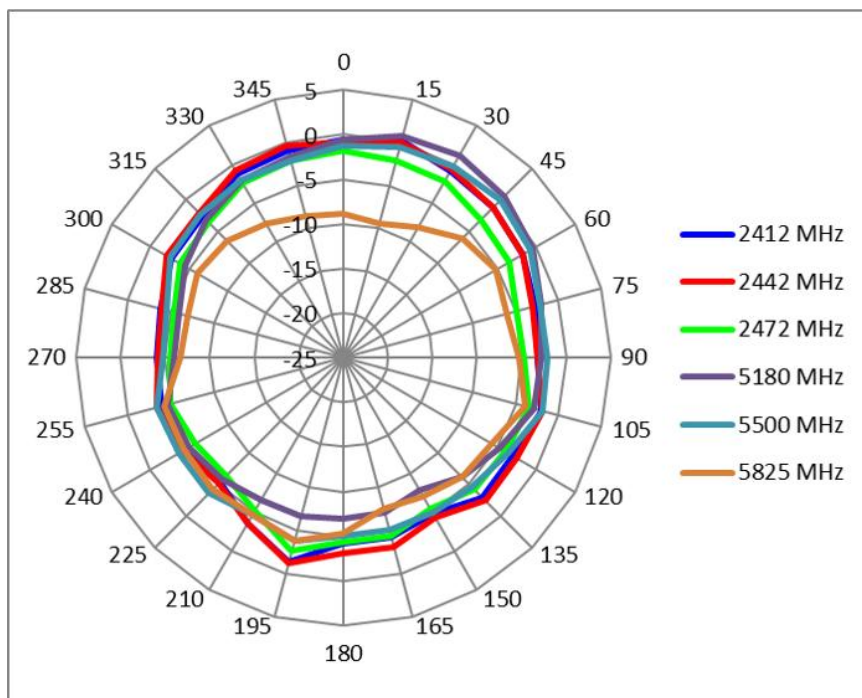
XY plane



XZ plane

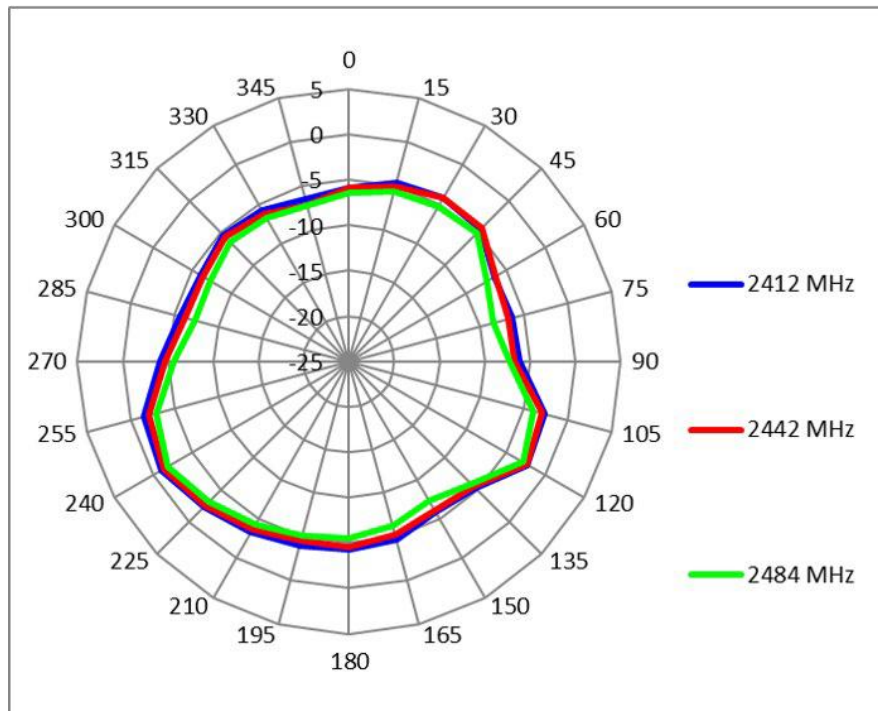


YZ plane

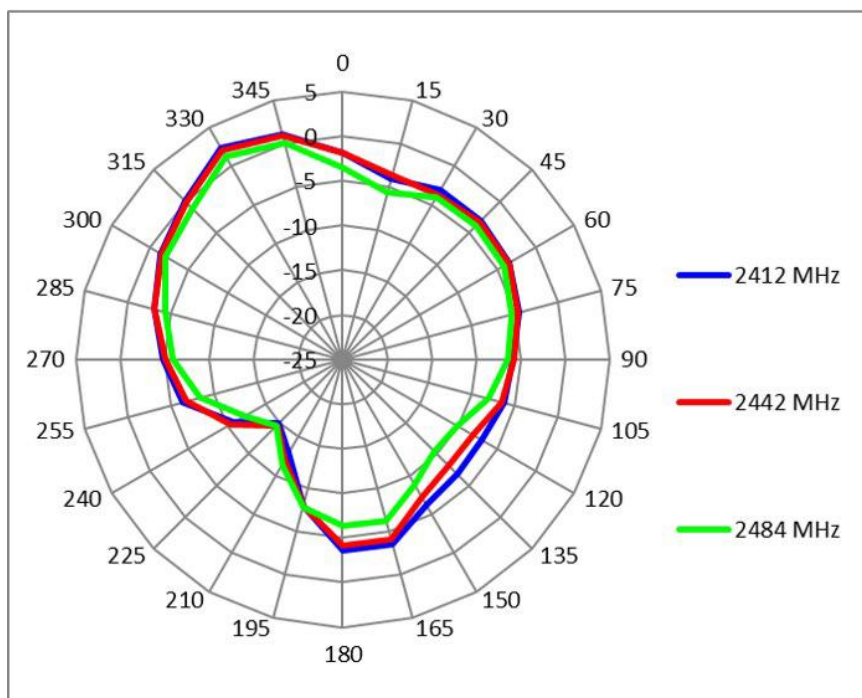


BT/Zigbee Antenna

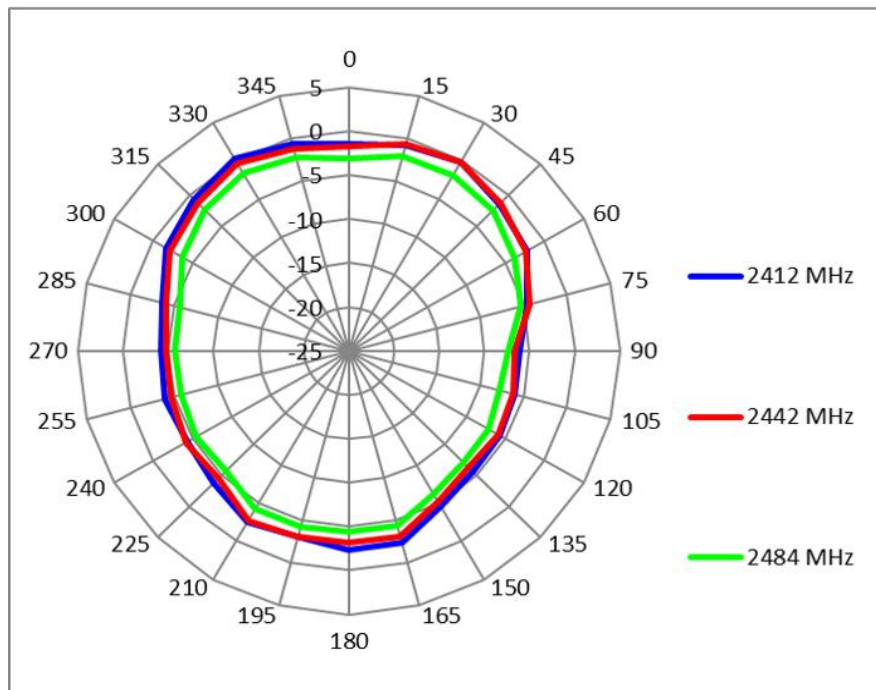
XY plane



XZ plane



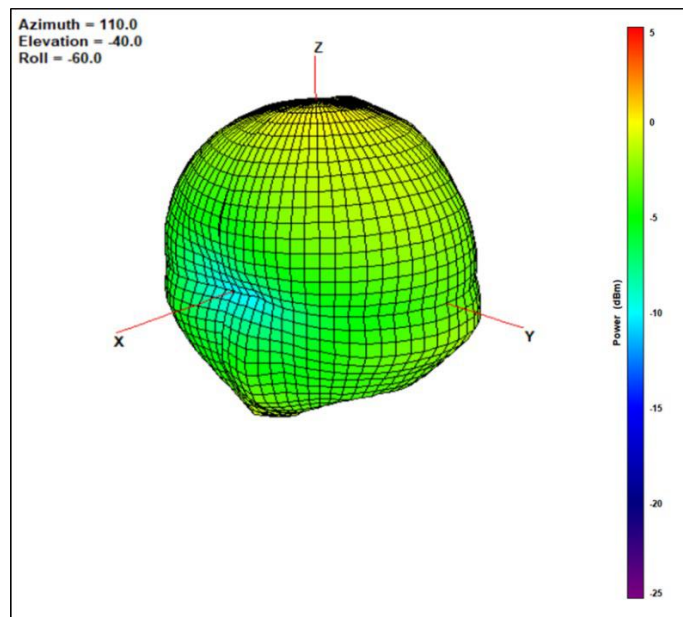
YZ plane



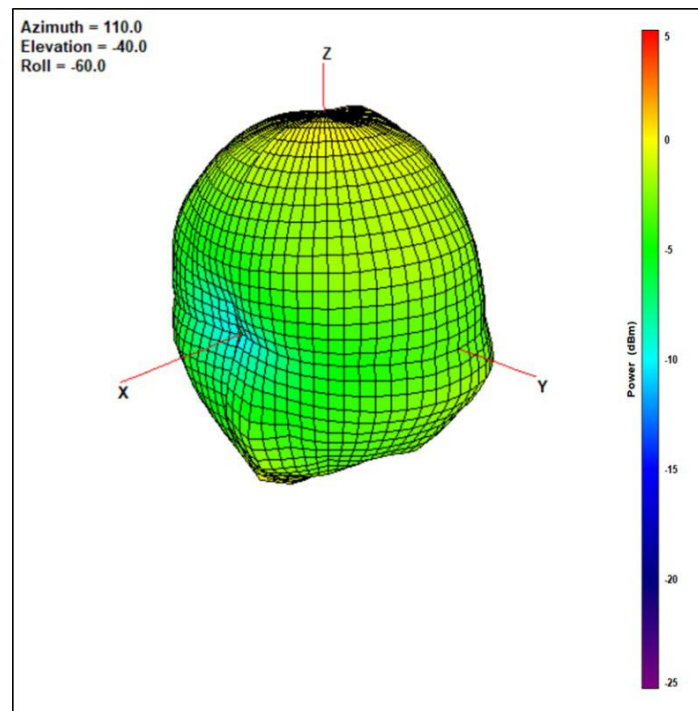
3D RADIATION PATTERN (FS)

WiFi0 2G Antenna

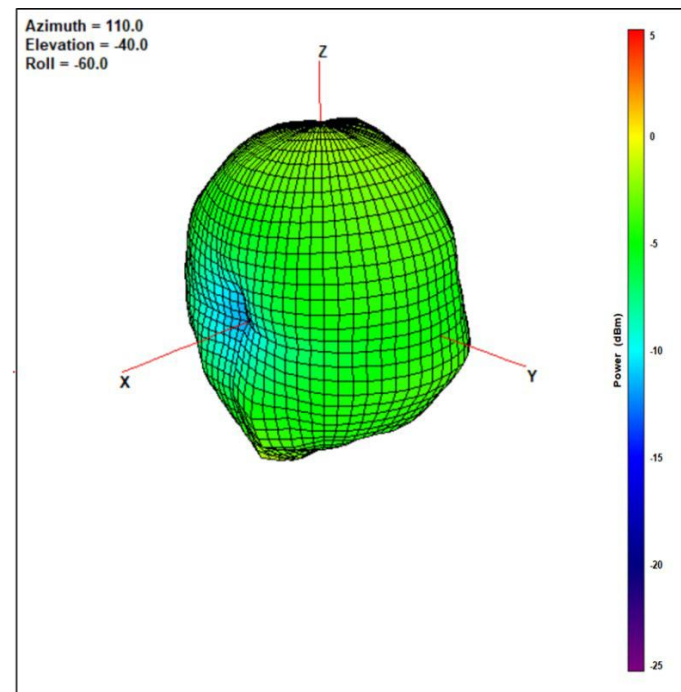
2412 MHz



2442 MHz

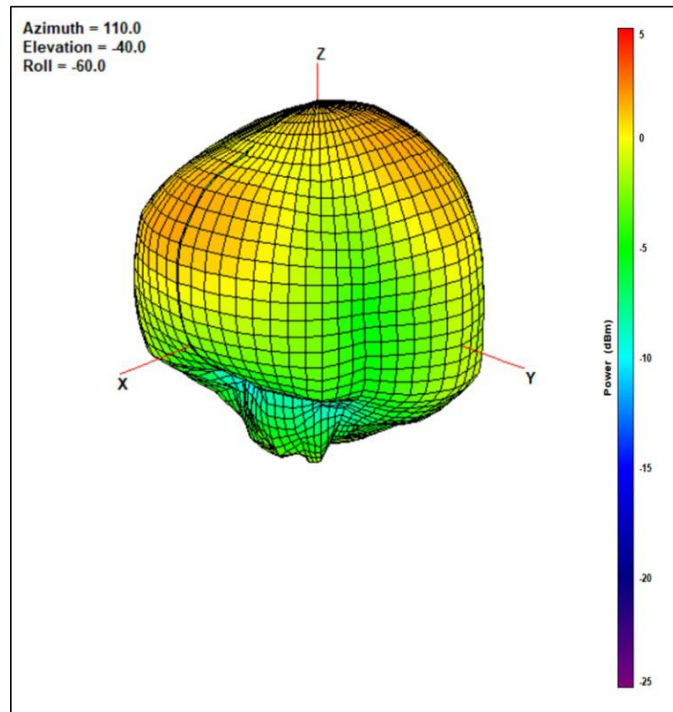


2472 MHz

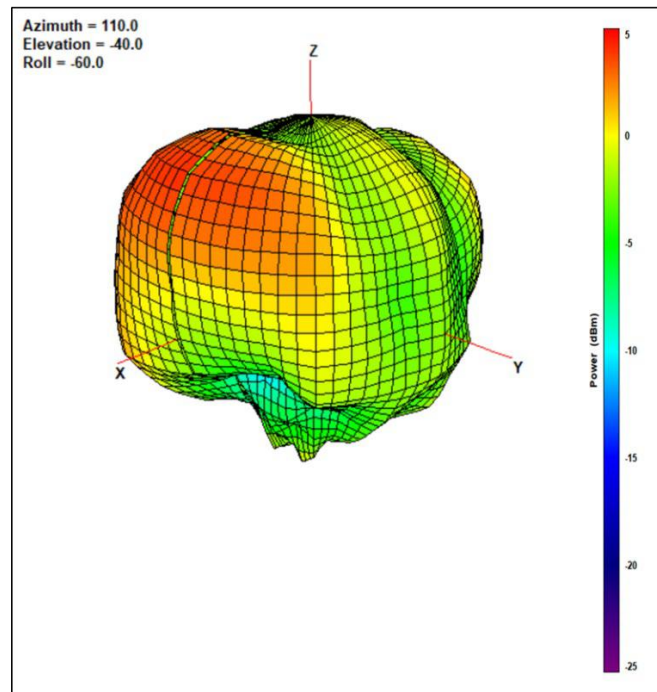


WiFi0 5G Antenna

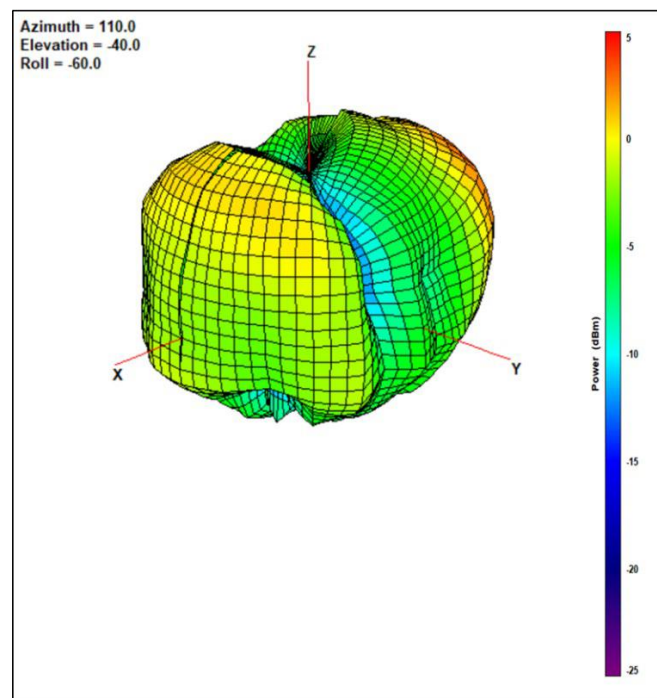
5150 MHz



5500 MHz

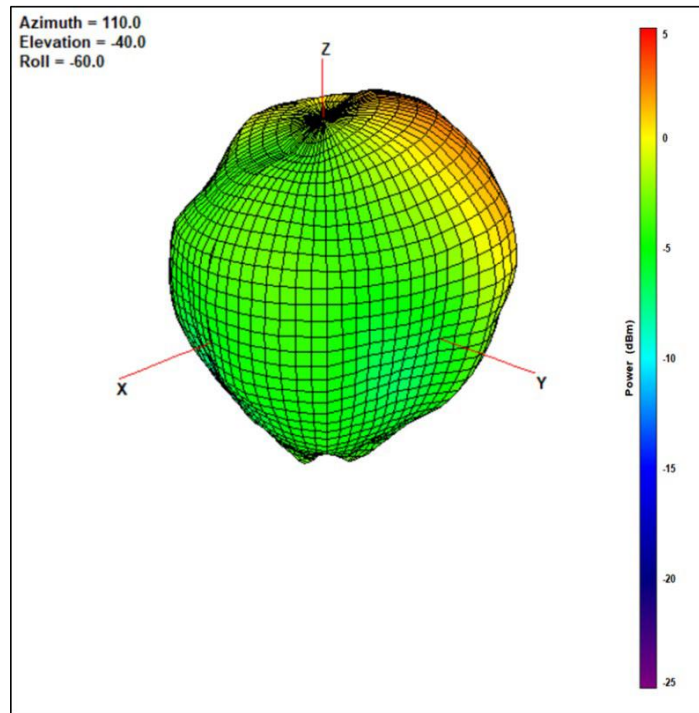


5825 MHz

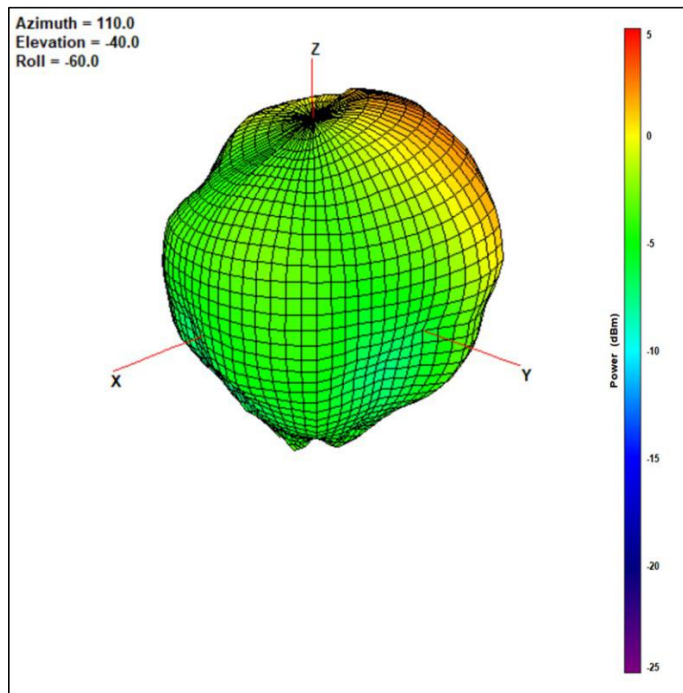


BT/Zigbee Antenna

2412 MHz



2442 MHz



2484 MHz

