

# Antenna Report

IC:24273-6392

FCC-ID: 2A4DH-6392

Product Model Number: M3N6RA

Date: 05/10/2023

# Antenna Specifications:

## Frequency range and operation:

2.4GHz WiFi-0 2G/BT Antenna: 2.412 to 2.472 GHz

2.4GHzG WiFi-1 Antenna: 2.412 to 2.472 GHz

5 GHz WiFi-0 Antenna: 5.18 to 5.85 GHz

5 GHz WiFi-1 Antenna: 5.18 to 5.85 GHz

## Antenna Type:

2G WiFi-0/BT, 2G WiFi-1 antenna: Printed PCB slot antenna

5G WiFi-0, 5G WiFi-1 antenna: Printed PCB monopole antenna

## Peak Antenna Gain:

Freq Band	WiFi Ant 0	WiFi Ant 1	BT Ant 0
2.4GHz	2.0	1.0	2.0
5GHz			
UNII 1 5150-5250MHz	3.5	3.0	
UNII 2a 5250-5350MHz	3.5	3.0	
UNII 2C 5470-5725MHz	5.0	4.0	
UNII 3 5725-5850MHz	5.0	4.0	

# Antenna Gain Measurement

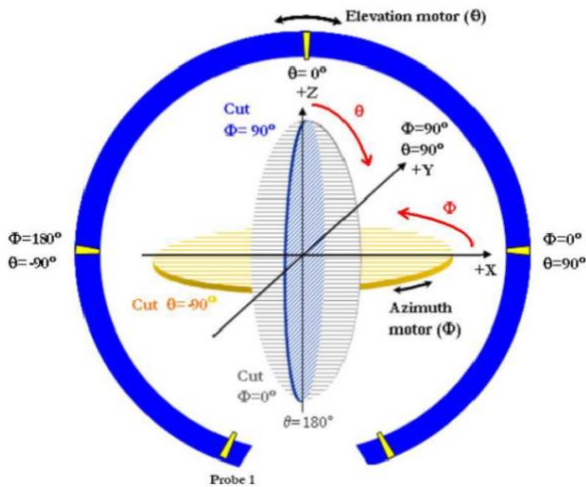
## Measurement Test Method:

Solder pigtailed 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 Equipment Used:

1. VNA: Keysight\_E5071C
2. OTA chamber: ETS\_AMS-8923-142-G Antenna Measurement System

## Test Setup:

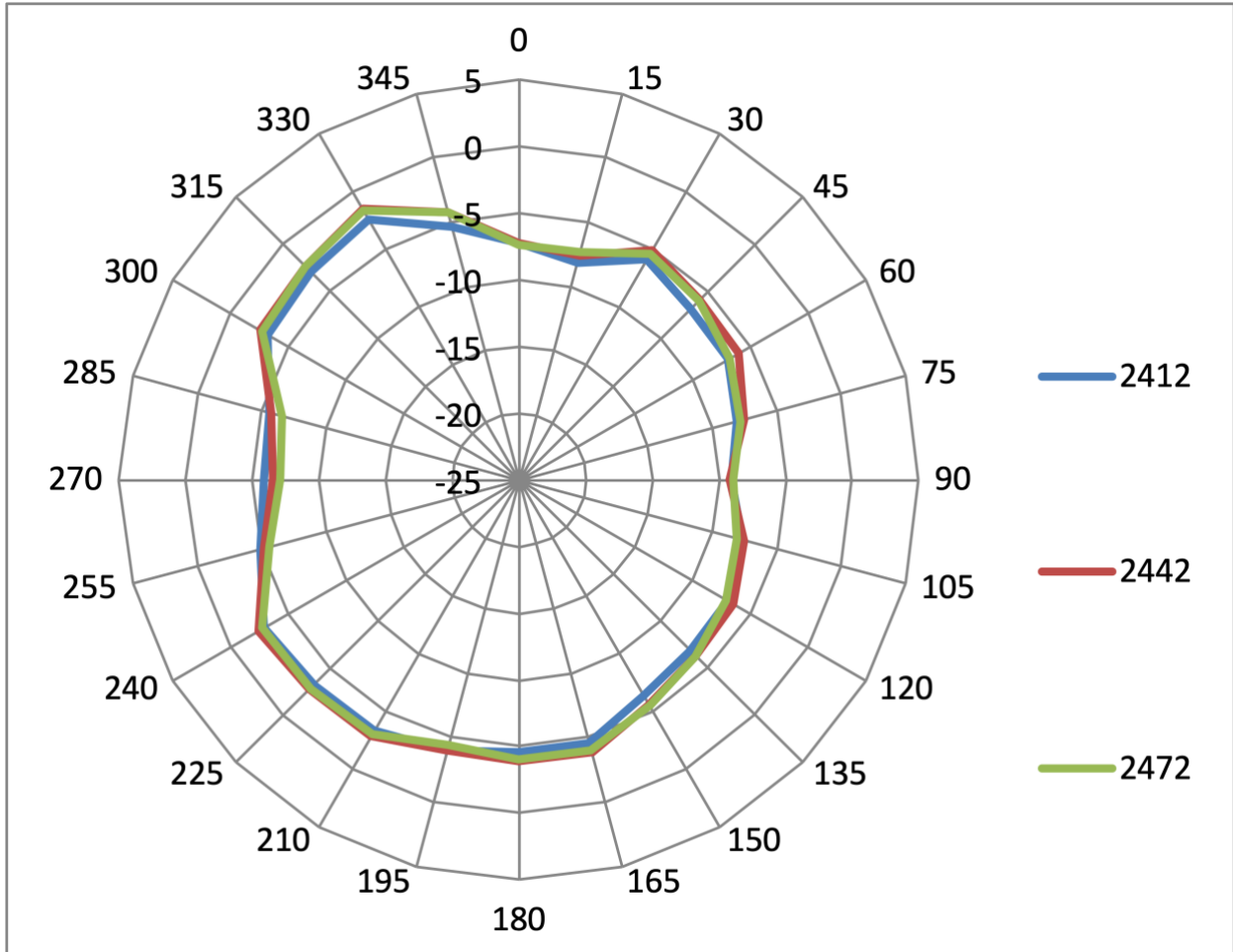


\*Please see set up photos document for further details.

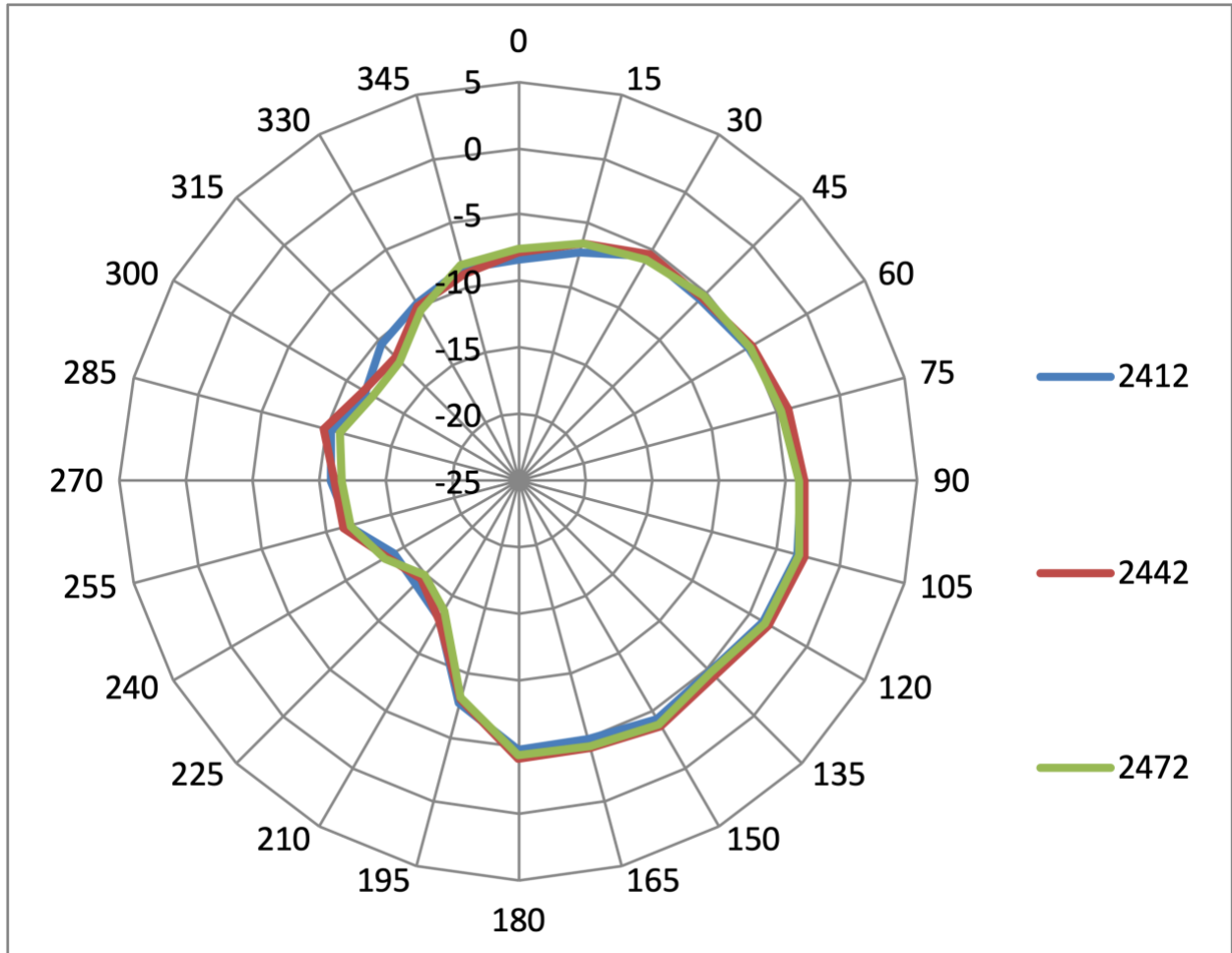
Antenna Patterns:

2G WiFi-0/BT Antenna

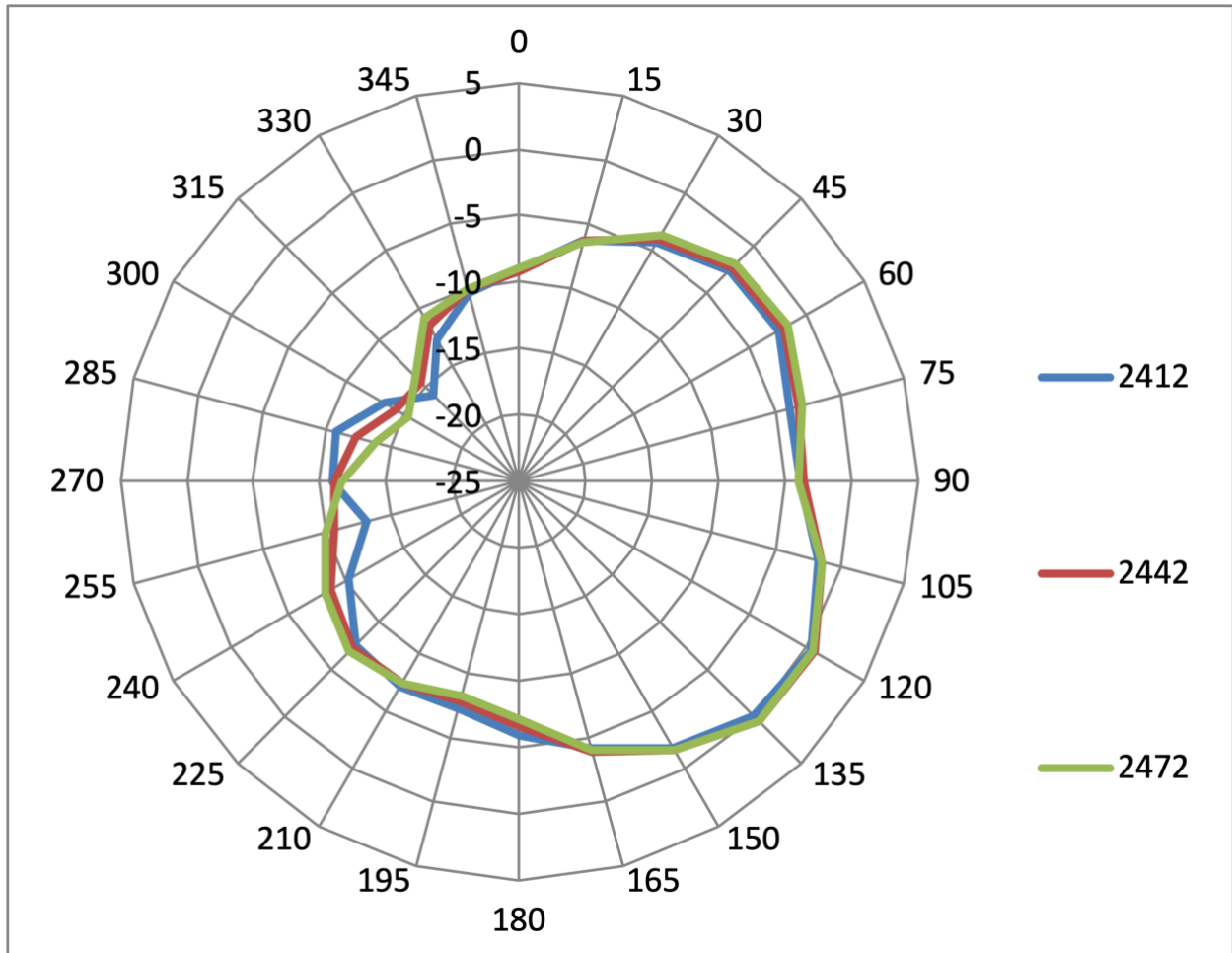
Phi=0



Phi90

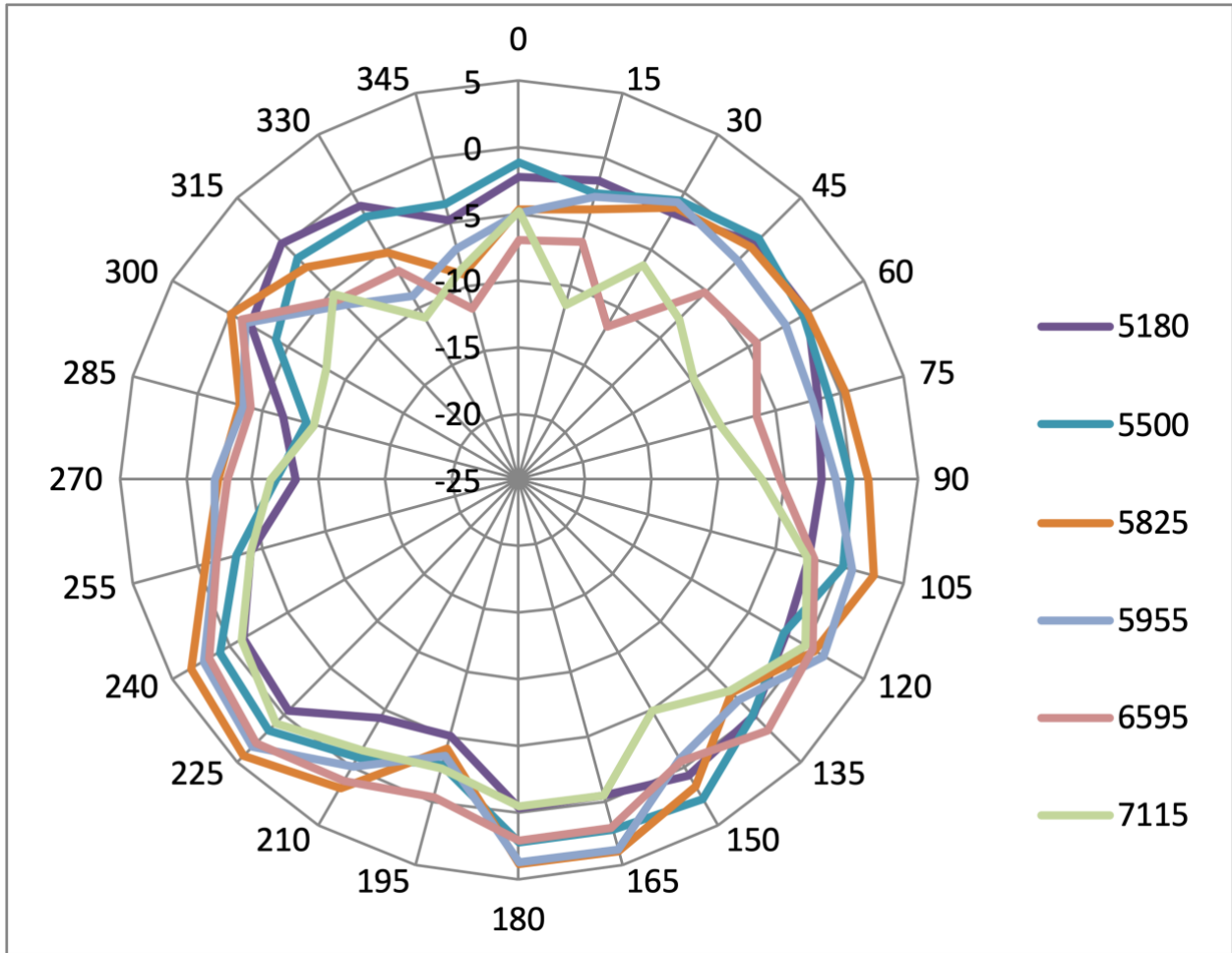


Theta 90

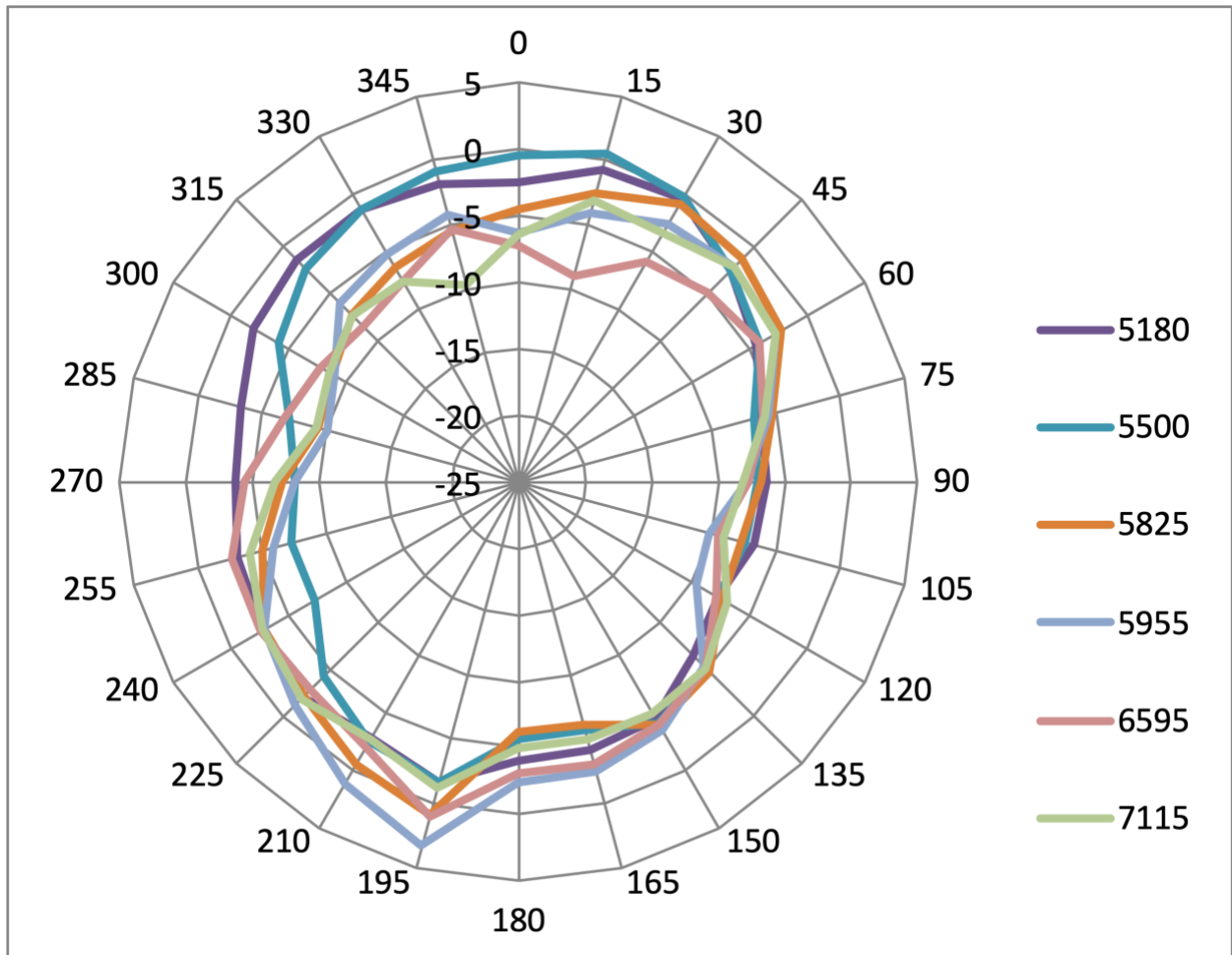


# 5G WiFi-0 Antenna

Phi=0

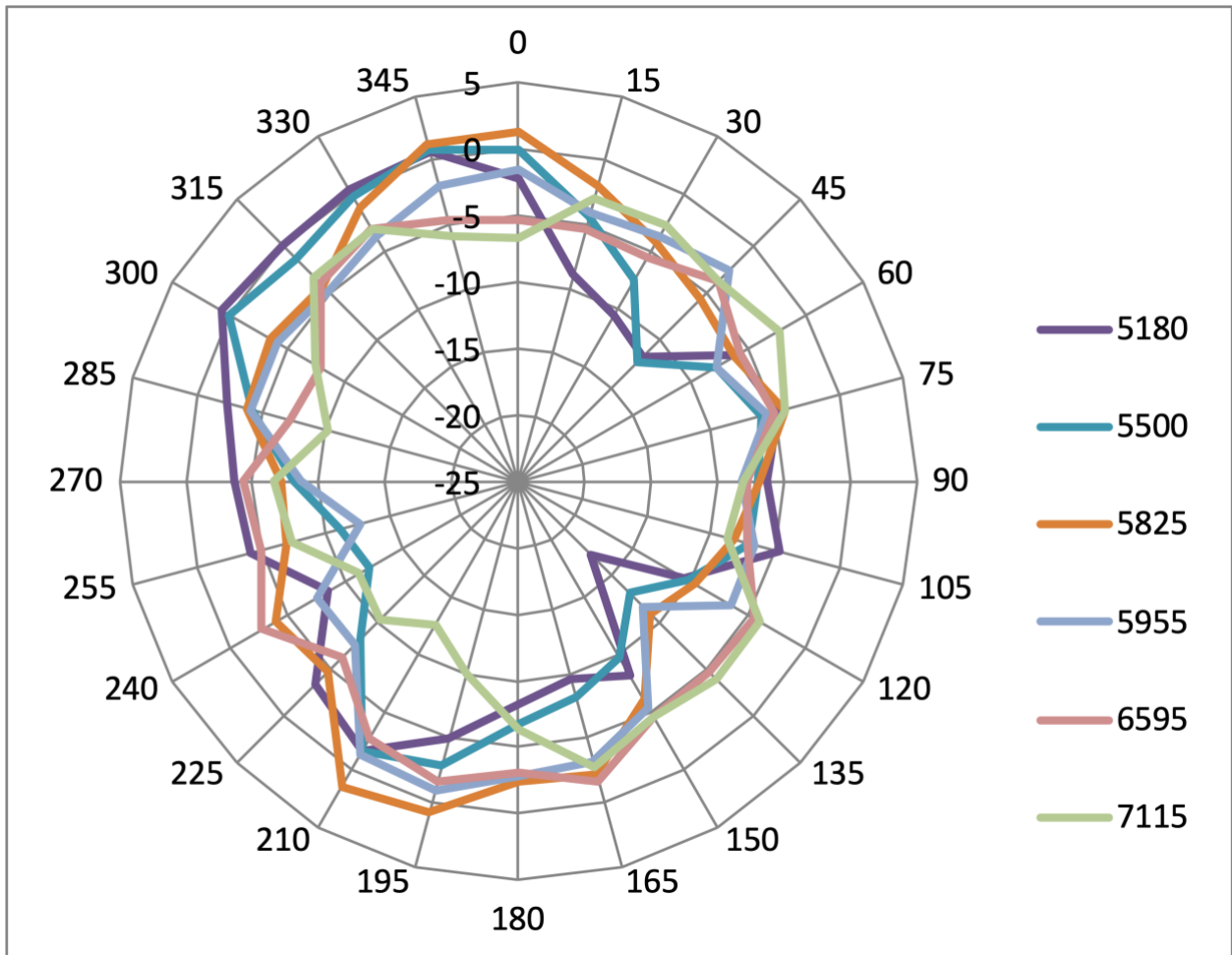


Phi=90



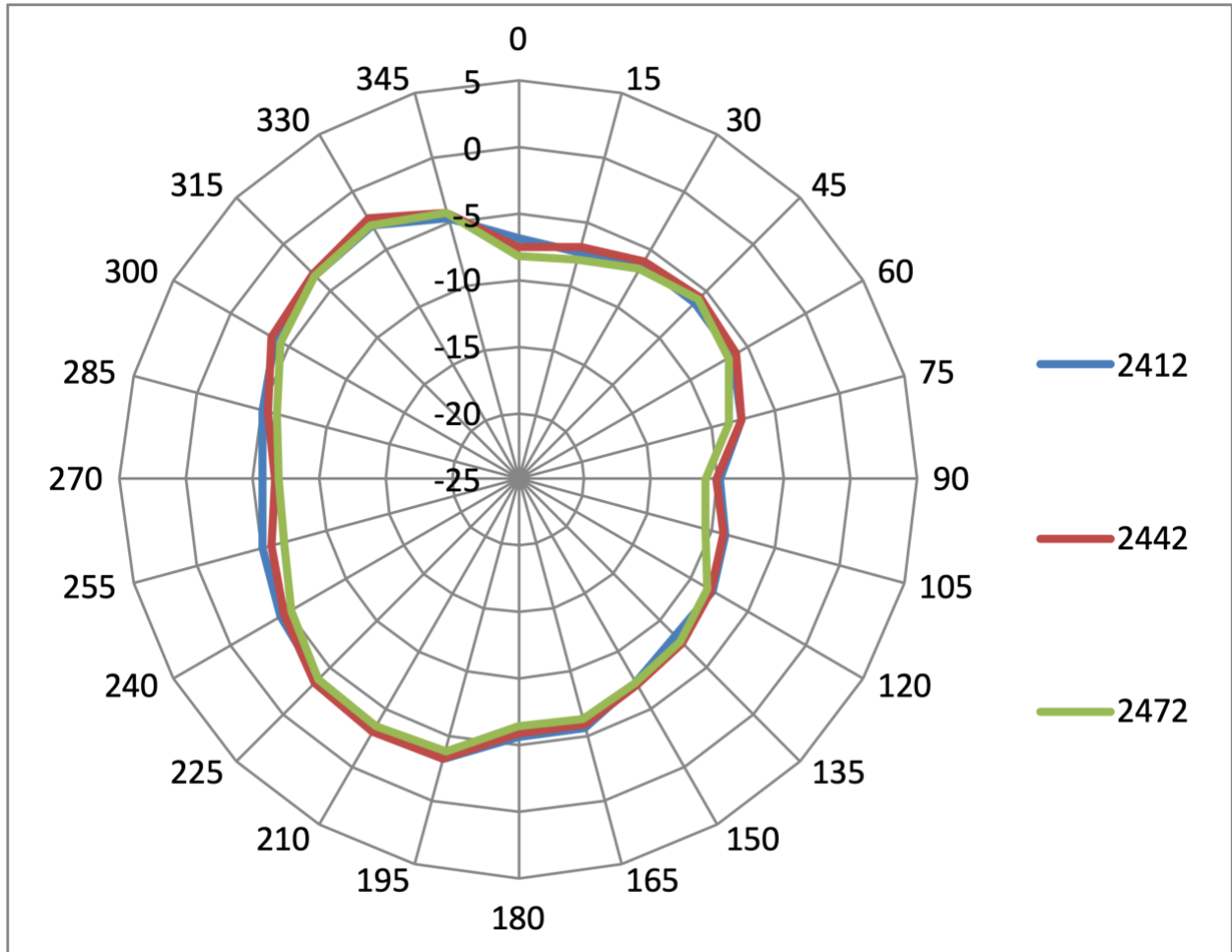


Theta 90

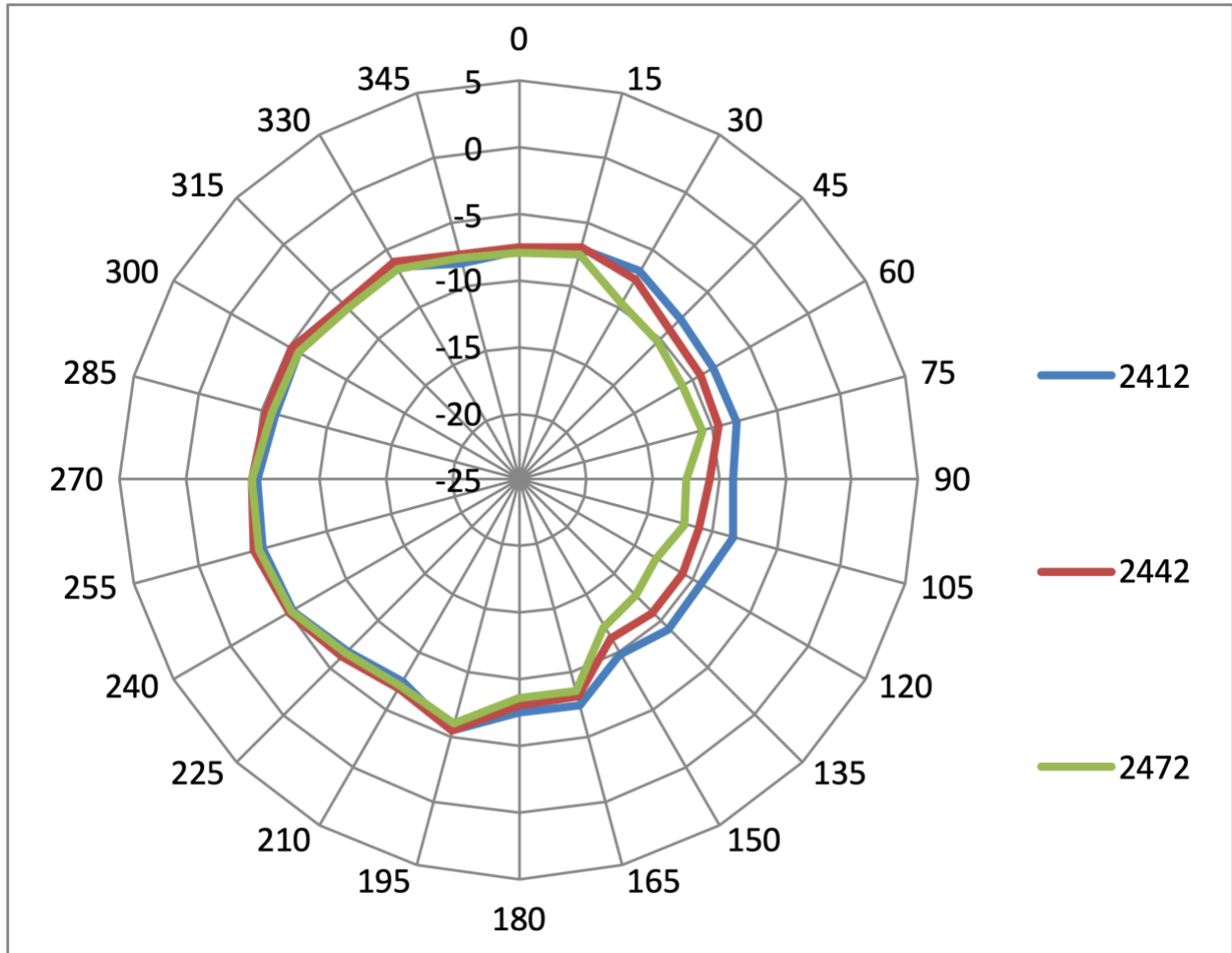


# 2G WiFi-1 Antenna

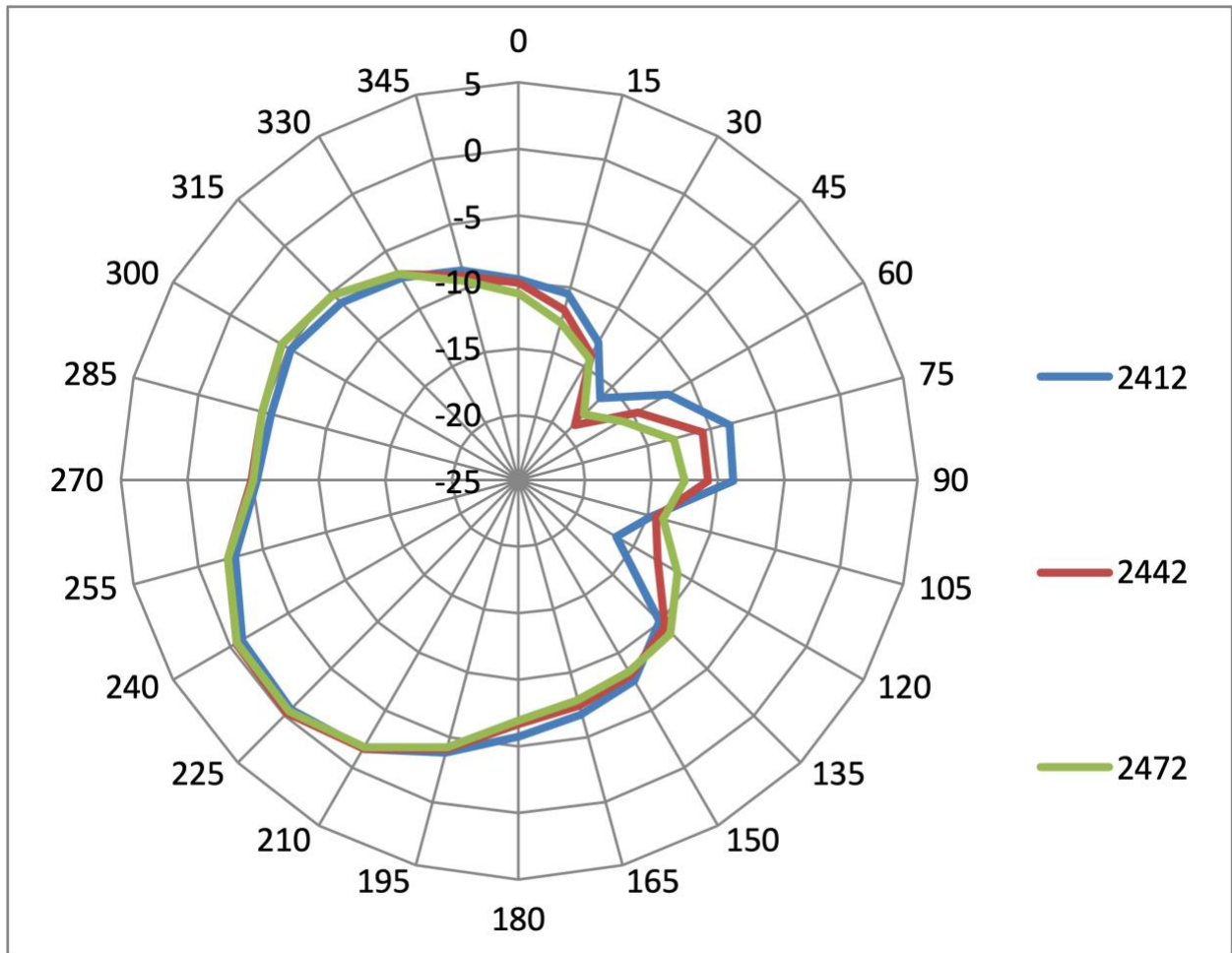
Phi=0



Phi=90

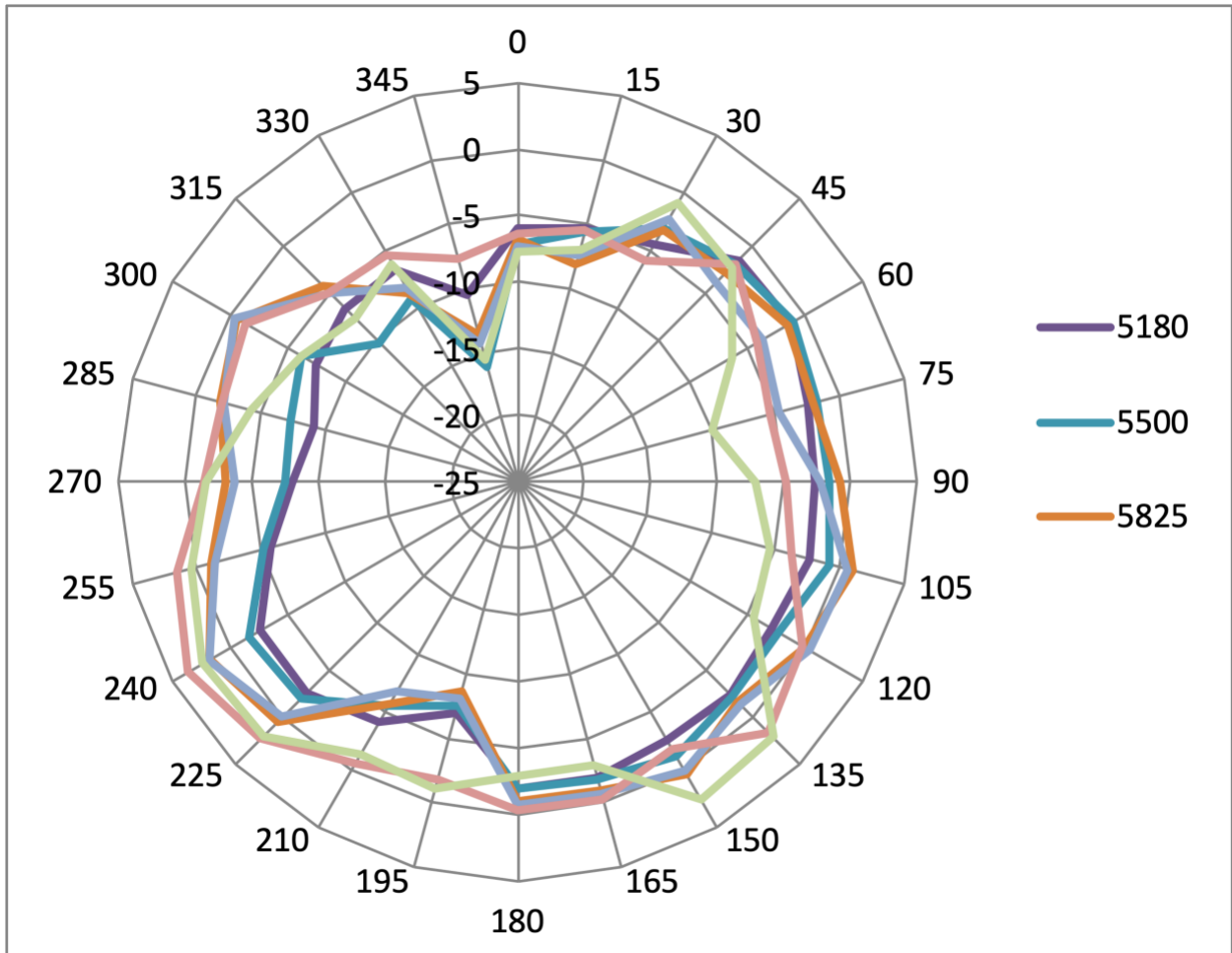


Theta 90

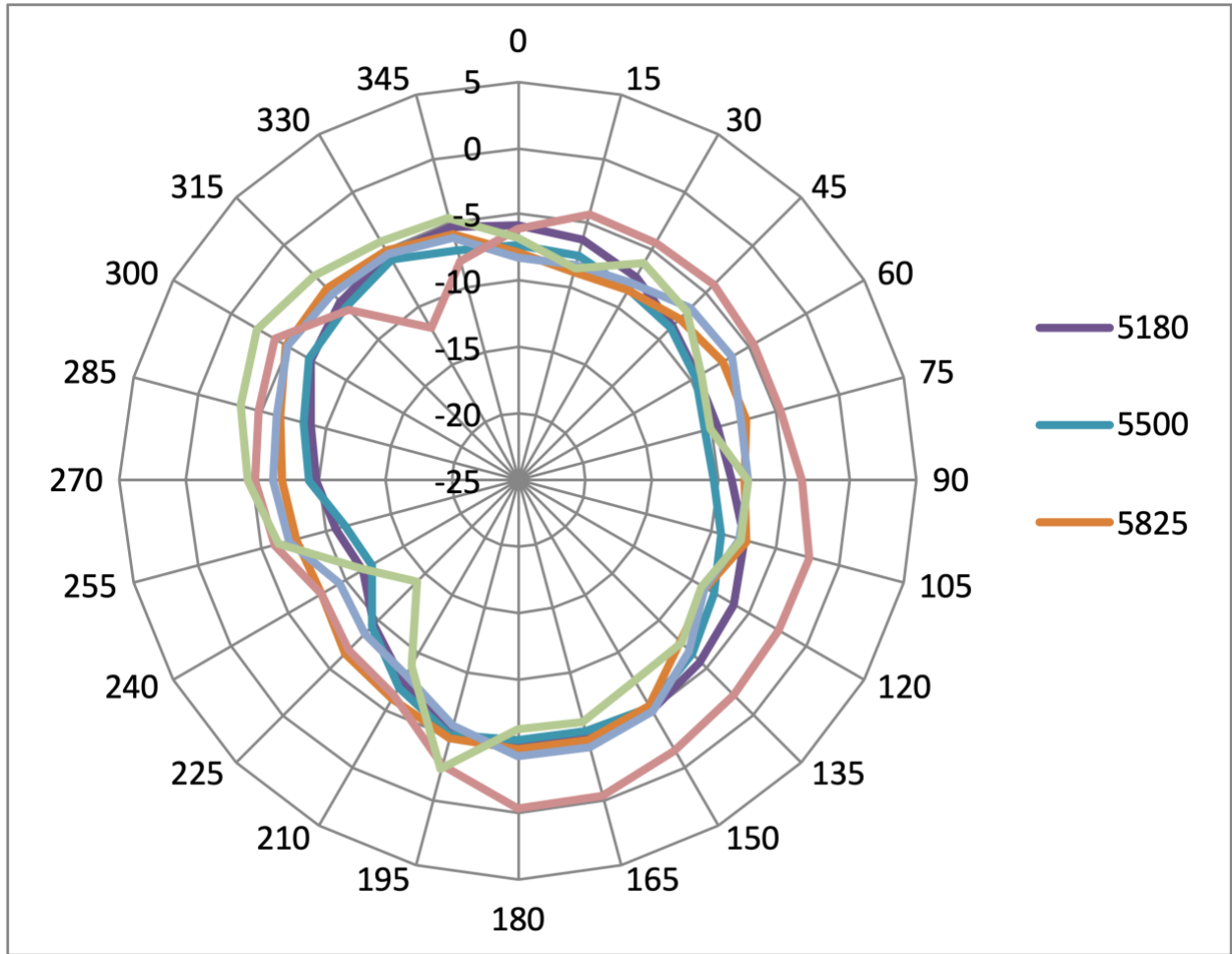


# 5GWiFi-1 Antenna

Phi=0



Phi=90



Theta 90

