

## G6A87E Antenna Report

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## General Information

This is the antenna report for device with model number G6A87E.

## Frequency range of operation:

Wi-Fi Antenna:

- Wi-Fi: 2.4 to 2.482 GHz and 5.15 to 5.85 GHz BT

BT Antenna:

- Bluetooth: 2.4 to 2.48 GHz

Zigbee&LoRa Antenna:

- Zigbee: 2.4 to 2.48GHz
- Lora: 863Mhz ~930Mhz

## Antenna Types:

Wi-Fi: PCB IFA antenna, BT antenna: PCB IFA antenna, Zigbee&LoRa antenna: FPC IFA antenna

## Antenna Gain:

WIFI	BT	Lora	Zigbee
2400~2483.5MHz 5150~5850MHz	4dBi	2400~2480MHz 863~930MHz	4dBi
4dBi		4dBi	2400~2480MHz 3.8dBi

## Measurement Test Method:

Solder pigtails on feeding point of antenna and measure passive antenna performance by VNA and OTA chamber system.

### Test Equipment used:

VNA: Agilent E5071C

OTA chamber: Mini-chamber BST-Mini-M

Test engineer: Kevin Qin

Test date: July 11th 2023

### Software for Measurement:

BST-passive

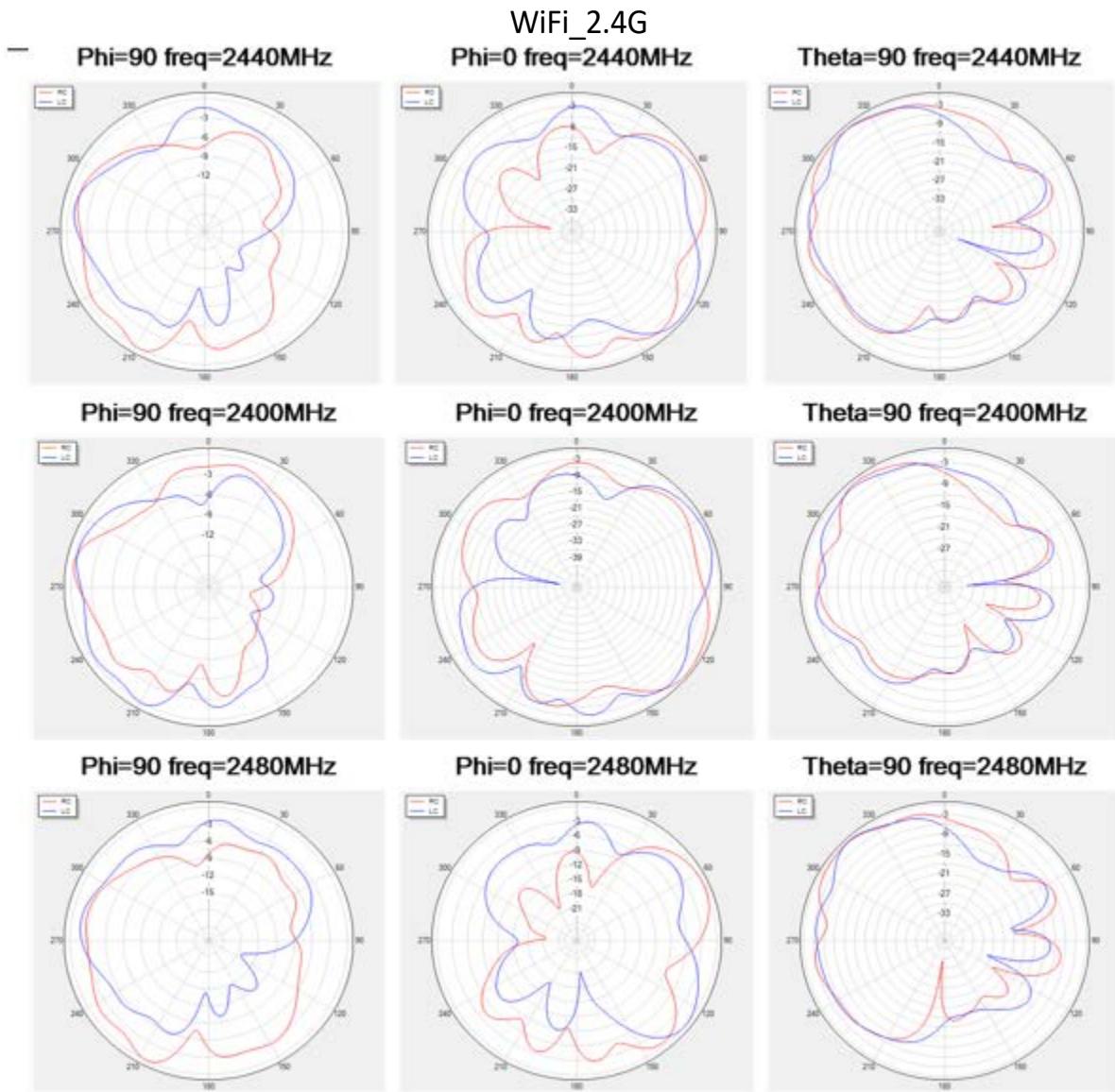
### Test Set-up:

1. Set up the device on the turn table and connect the pigtails to the RF cable.
2. Measure the 3D passive performance according to the following coordinate axis.

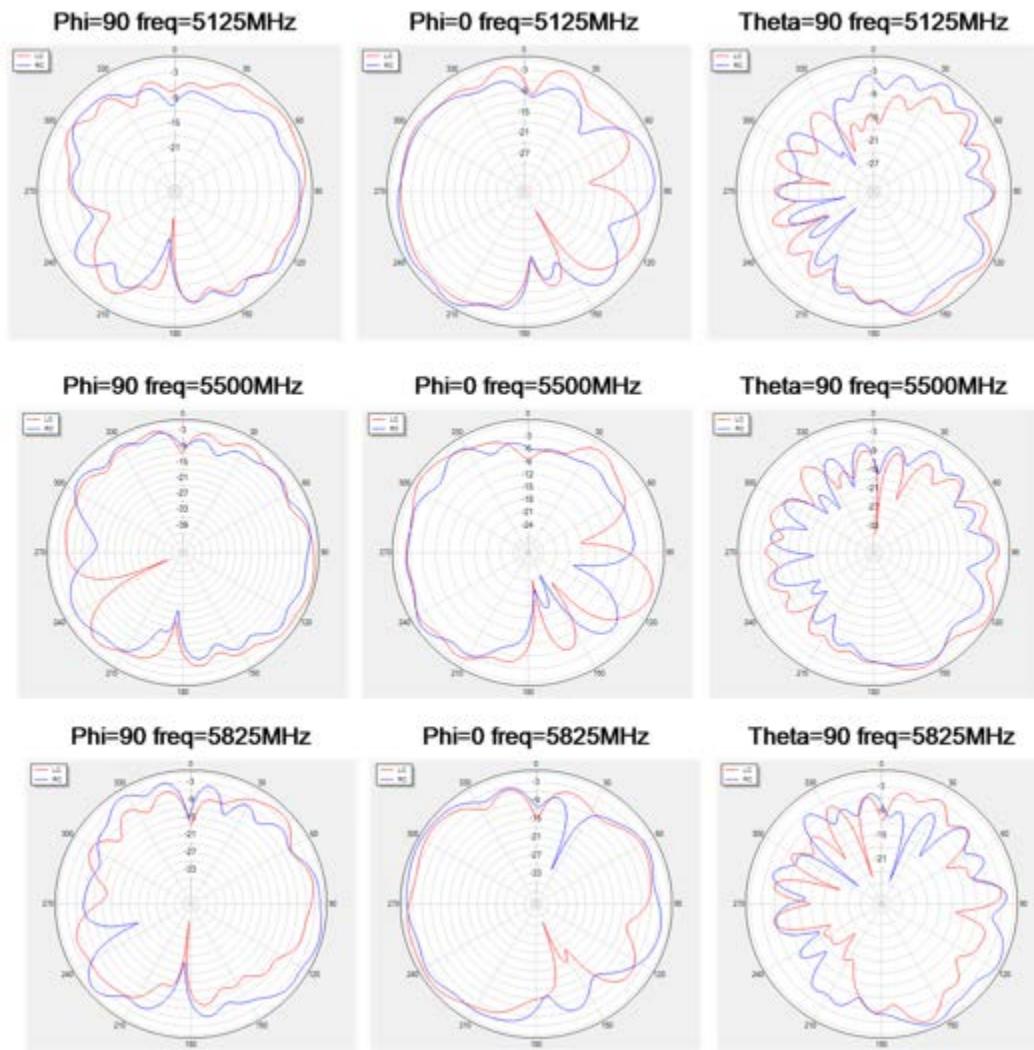
Turntable – Phi: 0-165°, step size: 15°, clockwise rotation

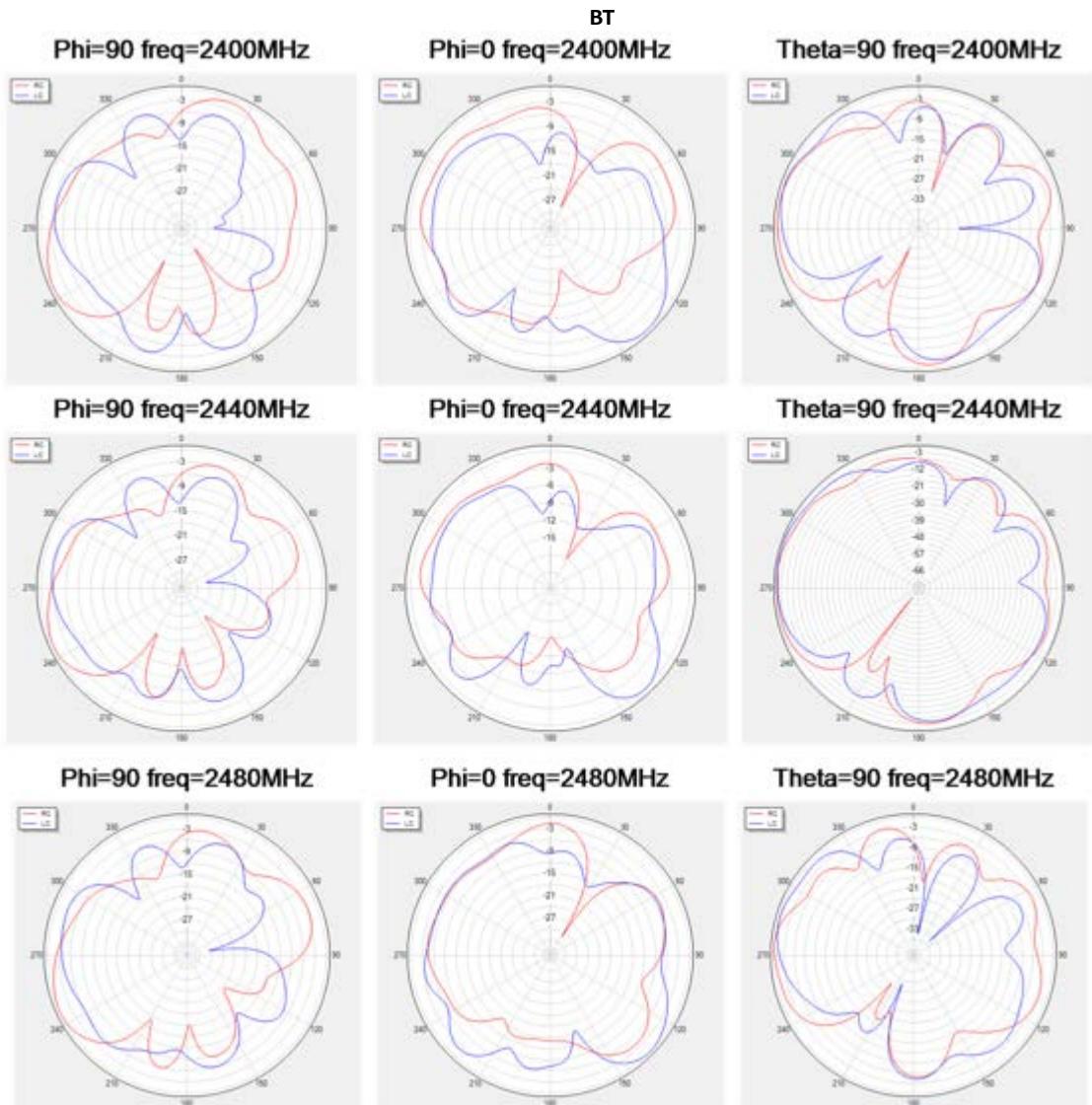
Please see separate test set-up exhibit for setup photographs

## 2D radiated pattern

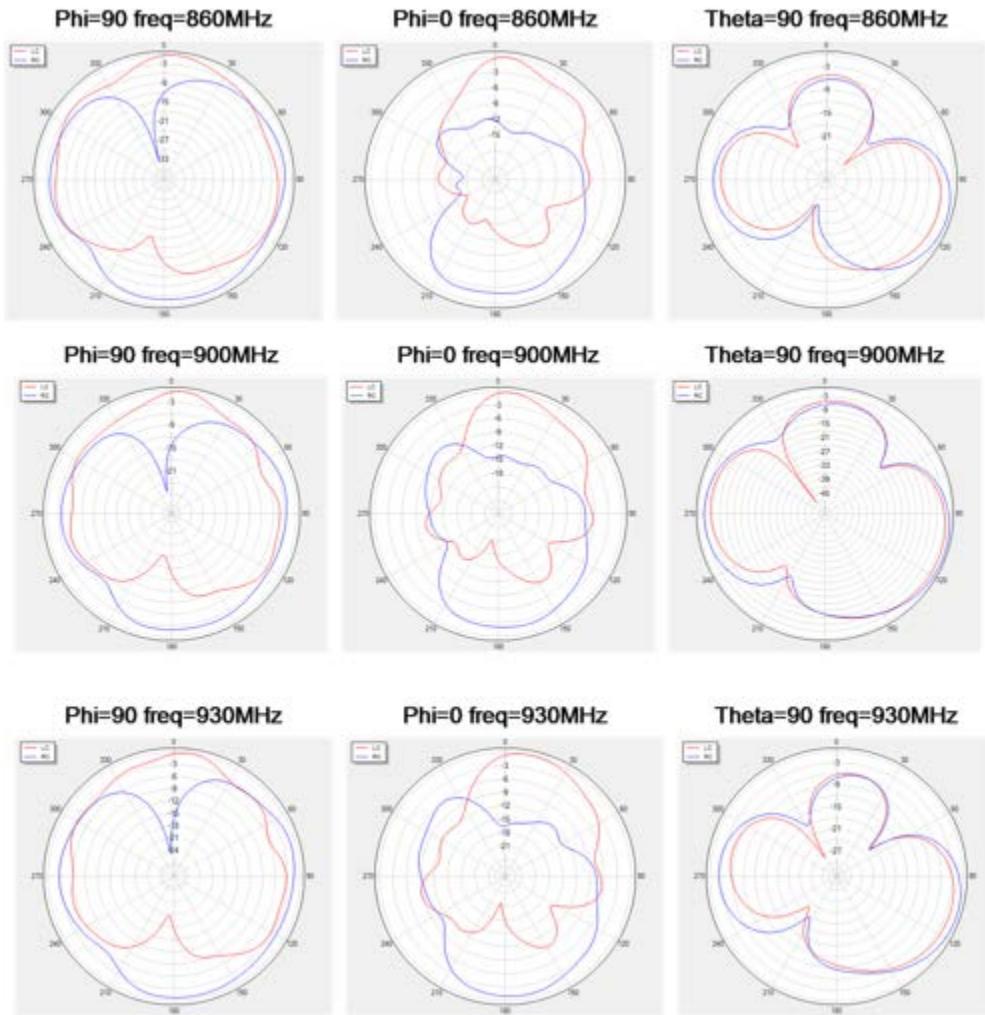


## WiFi\_5G





**Lora**



Zigbee

