

Antenna Gain Test Report

Test Date: 01/06/25 - 01/24/25

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1. General Information

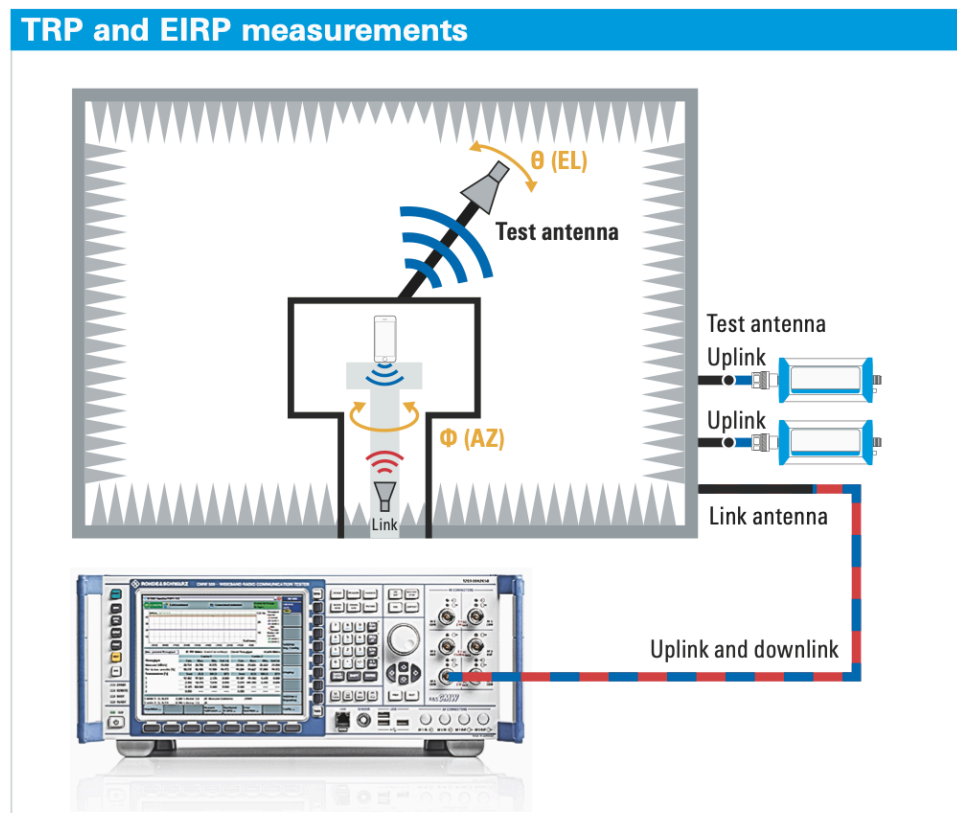
The purpose of this report is to demonstrate compliance to the FCC Part 15 Antenna requirement.

2. Chamber information

Dual polarization fully anechoic OTA chamber, R&S®TS8991 OTA Performance Test System.

Chamber pathloss calibration is per CTIA test plan v3.9.5 Section 4 Range Reference Requirements.

Chamber Location: 900 5th Ave, Sunnyvale, CA 94089



3. Commercial Test Software

Test software is from ROHDE & SCHWARZ, AMS32 v12.0.

4. Test Equipment

Equipment	Calibration Due Date
Dual polarization Fully anechoic OTA Chamber	13-Mar-2026
Rohde & Schwarz CMW500 + Z800A	21-Mar-2025
Rohde & Schwarz NRQ	08-Mar-2025

Note: OTA Chamber was audited routinely to ensure accurate results and a 2 year calibration cycle.

5. Antenna Test Method

TRP Measurement method follows CTIA Certification/Wi-Fi Alliance Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices V2.2.1.

Active antenna measurement Steps:

- 1) DUT placed in free-space inside an anechoic chamber.
- 2) DUT configured to transmit a CW signal.
- 3) EIRP are measured with Power meter at each polarization 0 – 360 degree on the turntable with respect to the theta arm from 0-180 degree for a full 3D spherical measurement.
- 4) Data and pathloss will be processed by AMS32 software.
- 5) Peak EIRP – Conducted power = Peak Antenna gain.
- 6) Repeat Step 2 to 5 for each testing channel/frequency.

6. Antenna Gain Results and Plots

Refer to Exhibit A for antenna gain results and plots.

7. Antenna Photo

Refer to Exhibit B for Antenna information and photo.

Exhibit A - Gain Results and Plots

Antenna Peak Gain:

Technology	Frequency (MHz)	FreeSpace Tx Peak Max Gain of H & V
BLE 2.4GHz	2400-2483.5	-2.2 dBi

Antenna 2D/3D Plots:

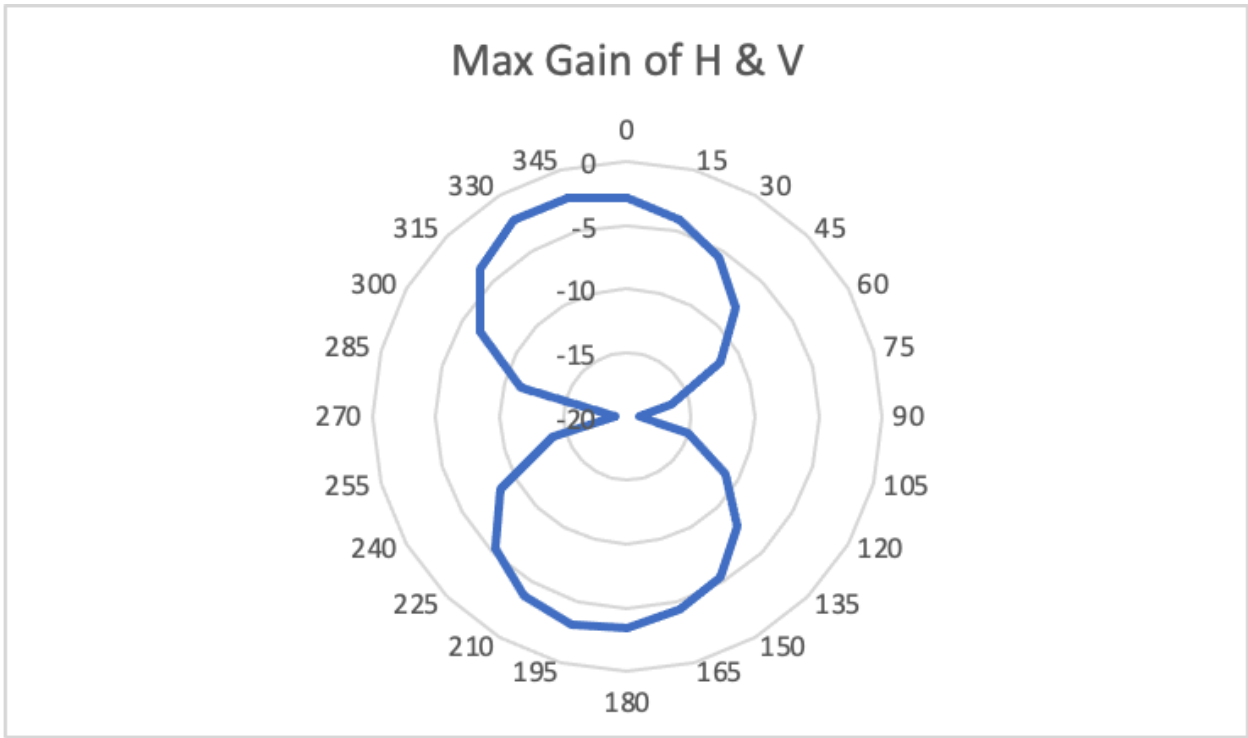


Exhibit B - Antenna Information and Photos

Antenna Manufacturer	Meta Platforms Technologies, LLC
Manufacturer Address	900 5th Ave, Sunnyvale, CA 94089
Antenna Part/Model Number	N/A
Antenna Type	LDS Loop antenna