Antenna info

Model DELLFMFHP – FCC ID XFJ DELLFMFHP

The device is equipped with two antennas:

2.4GHz Antenna

- Integrated PWB 28mm
- Type: quarter wave

The device does not allow the end user or installer to modify the radio configuration.
All frequency channel selections, power levels, and radio operation parameters are pre-defined in the firmware and are not accessible through any external software or hardware interface.
The device has no physical interface (e.g., USB, UART) accessible to the user.
Firmware updates can only be performed using a secure, proprietary over-the-air (OTA) update process through the 2.4 GHz radio interface. This update mechanism is cryptographically protected and inaccessible to end users.

Radio detection antenna (*below 30MHz*)

- Soldered in the PWB

The VLF frequencies are fixed within a regulatory-compliant band and cannot be extended or modified by the end user or installer.

Both antennas are fixed and not replaceable by the end user or installer, ensuring compliance with FCC 15.203.
The device does not include any external RF power amplifiers and no provision exists for connecting one. It has been tested and certified with the integrated antennas only, in accordance with FCC 15.204.
Therefore, the device fully complies with the requirements of FCC Sections 15.203 and 15.204 regarding antenna type and RF power control.

Client:	XPLORER	PR Number:	PR185702
Model:	DELLFMFHP	T-Log Number:	TL185702-RA-HF2-2413
		Project Manager:	Christine Krebill
Contact:	Huong Monnier	Project Engineer:	David Bare
Standard:	FCC Part 15, RSS-210, RSS-247	Class:	N/A

EIRP / Antenna gain measurements

Specific Details

Objective: Determine antenna gain to support RF Exposure evaluation.

Date of Test: 1/7/2025
Test Engineer: Deniz Demirci
Fremont Chamber #8
Test Method: Pseudo active OTA measurement.

Sample Notes

Sample S/N: CE000D

Power Setting[2]	Frequency (MHz)	Output Power (dBm) [1]	Output Power mW	Measured EIRP dBm	Measured EIRP W	Antenna Gain (dBi)	Result		
0	2404	2.2	1.7	-0.7	0.0008	-2.9	N/A		
0	2440	1.9	1.5	0.8	0.0012	-1.1	N/A		
0	2476	1.3	1.3	1.8	0.0015	0.5	N/A		

Note: Antenna gain (dBi) = Measured EIRP (dBm) – Conducted Output Power (dBm)

Measurement settings:
RBW: 1 MHz
VBW: 3 MHz
Detector: Positive peak
Span: Zero span

Test Equipment

Manufacturer	Description	Model #	Asset #	Last Cal	Cal Due
Rohde & Schwarz	Signal Analyzer OTA	FSV13	WC064873	10/10/2024	10/31/2025

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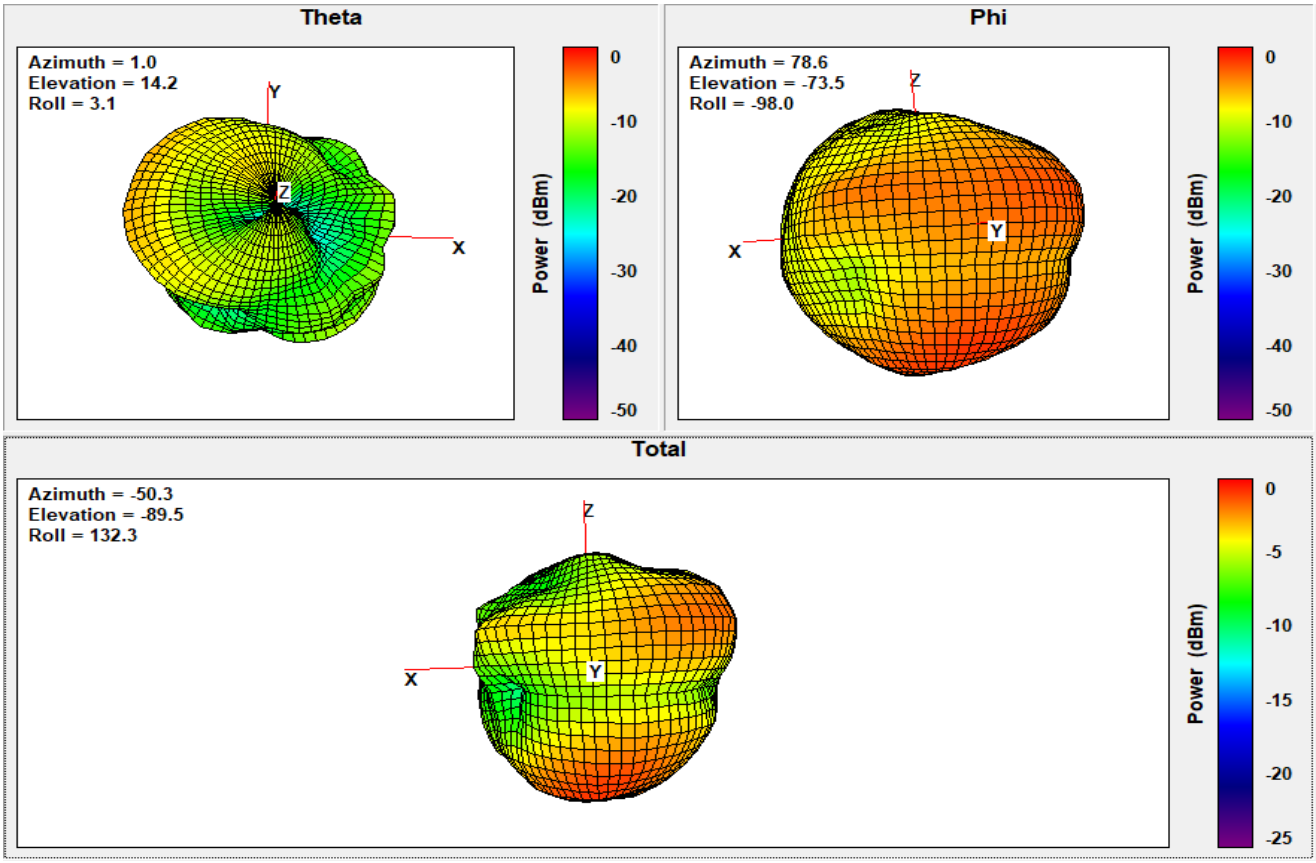
2404 MHz



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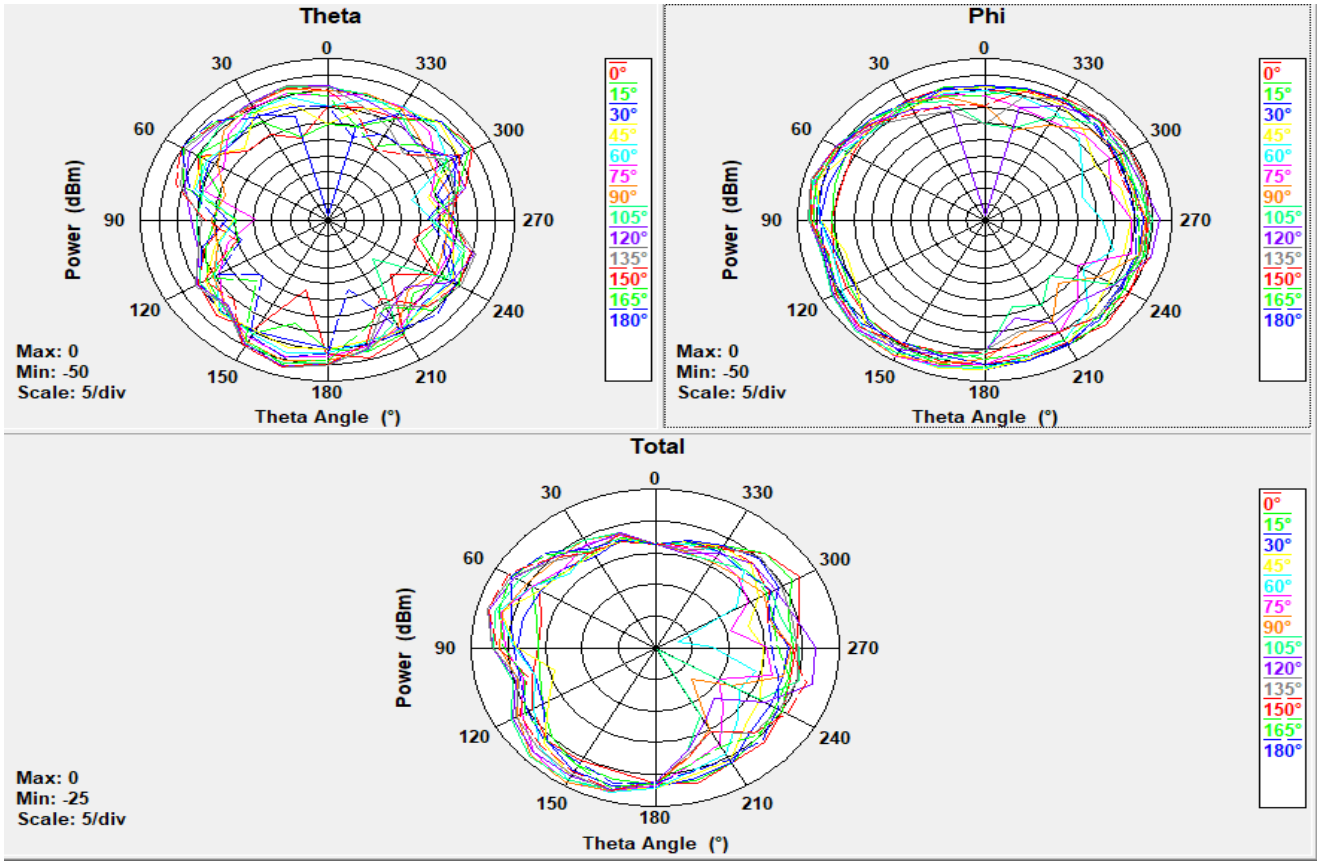
2404 MHz



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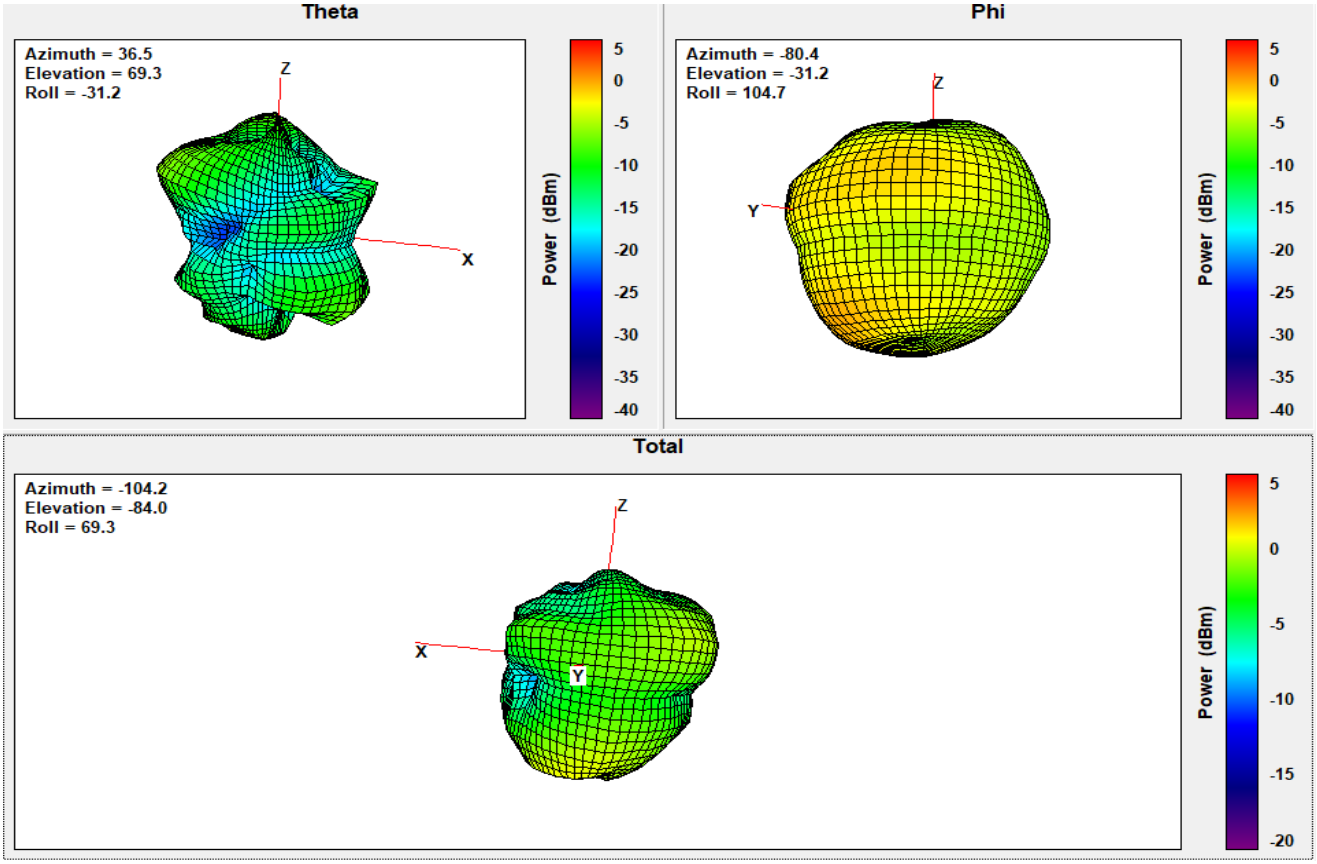
2440 MHz



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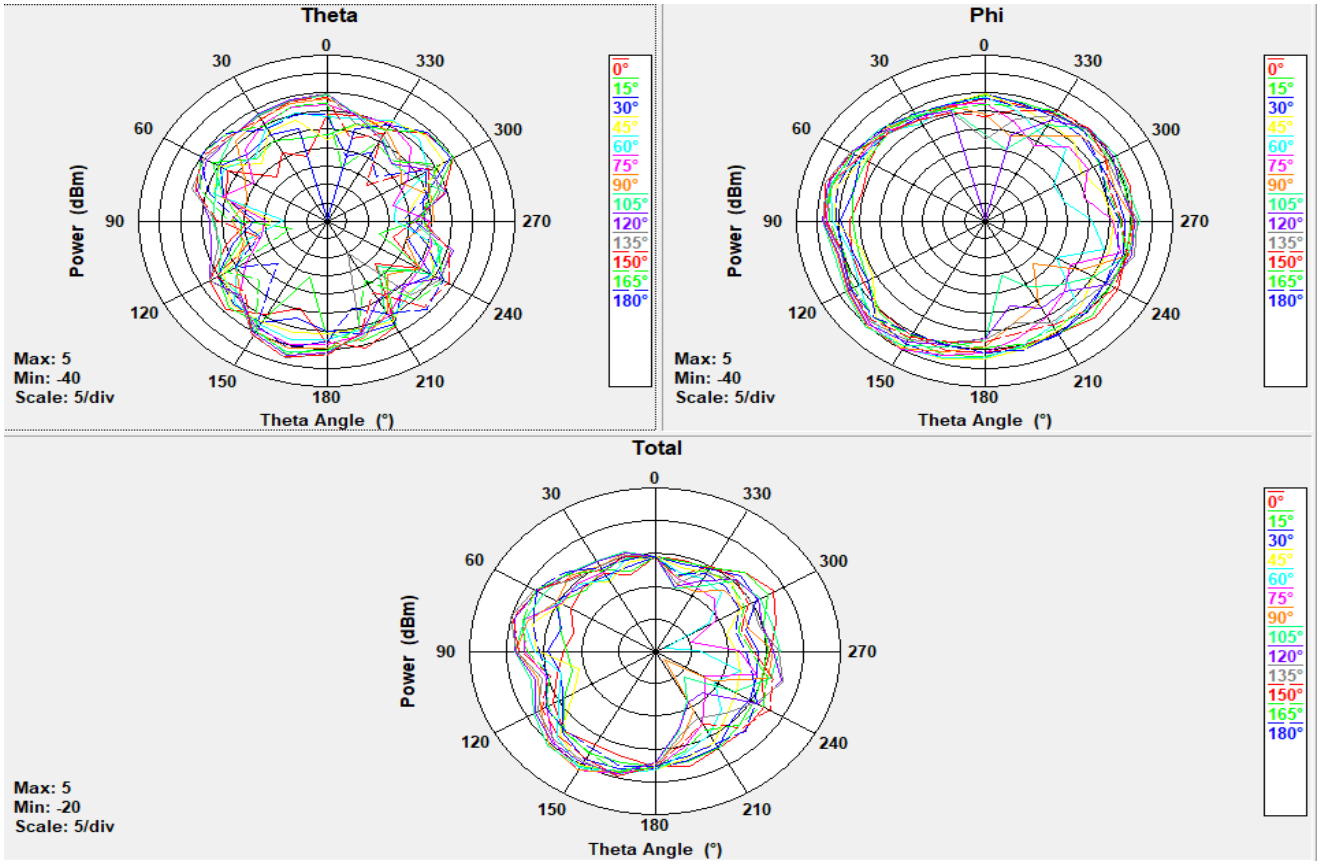
2440 MHz



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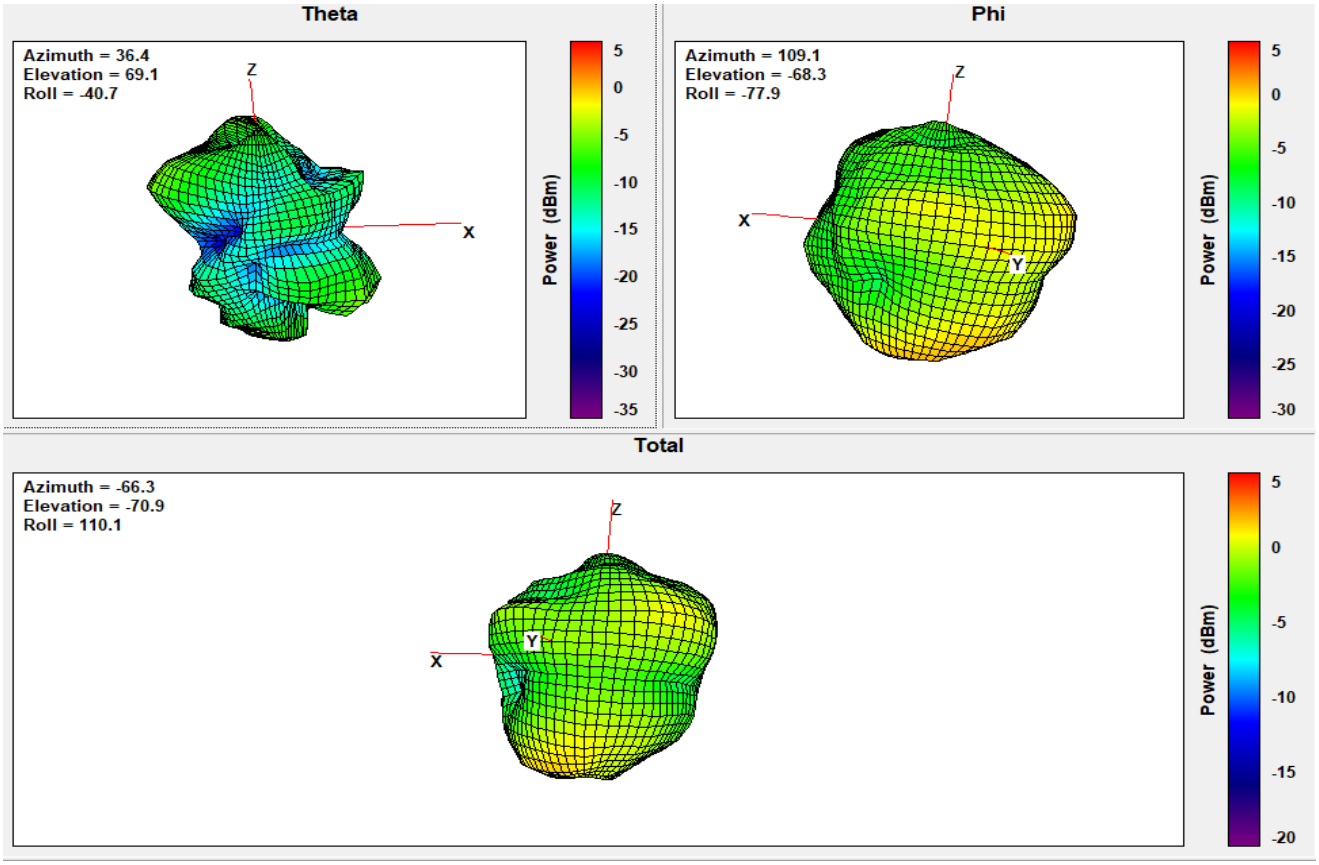
2476 MHz



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2476 MHz