



Antenna info

Model RCICON – FCC ID XFJRCICON

The device is equipped with one antenna:

2.4GHz Antenna

- Integrated PWB mm
- 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.

Firmware updates can only be performed using a secure, proprietary update process.

This update mechanism is cryptographically protected and inaccessible to end users.

This antenna is 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.



EMC Test Data

Client:	XPLOER	PR Number:	PR185733
Model:	ICON Remote Control	T-Log Number:	PR185733-RA-RC
Contact:	Huong Monnier	Project Manager:	Christine Krebill
Standard:	FCC Part 15, RSS-247	Project Engineer:	David Bare
		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: CE0011

Power Setting ²	Frequency (MHz)	Output Power (dBm) ¹	mW	Measured EIRP dBm	W	Antenna Gain (dBi)	Result		
0	2404	-0.5	0.9	-0.3	0.0009	0.2	N/A		
0	2440	-1.3	0.7	-2.1	0.0006	-0.8	N/A		
0	2476	-2.3	0.6	-4.0	0.0004	-1.7	N/A		

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

Measurement settings:

RBW: 1 MHz

VBW: 3 MHz

Detector: Positive peak

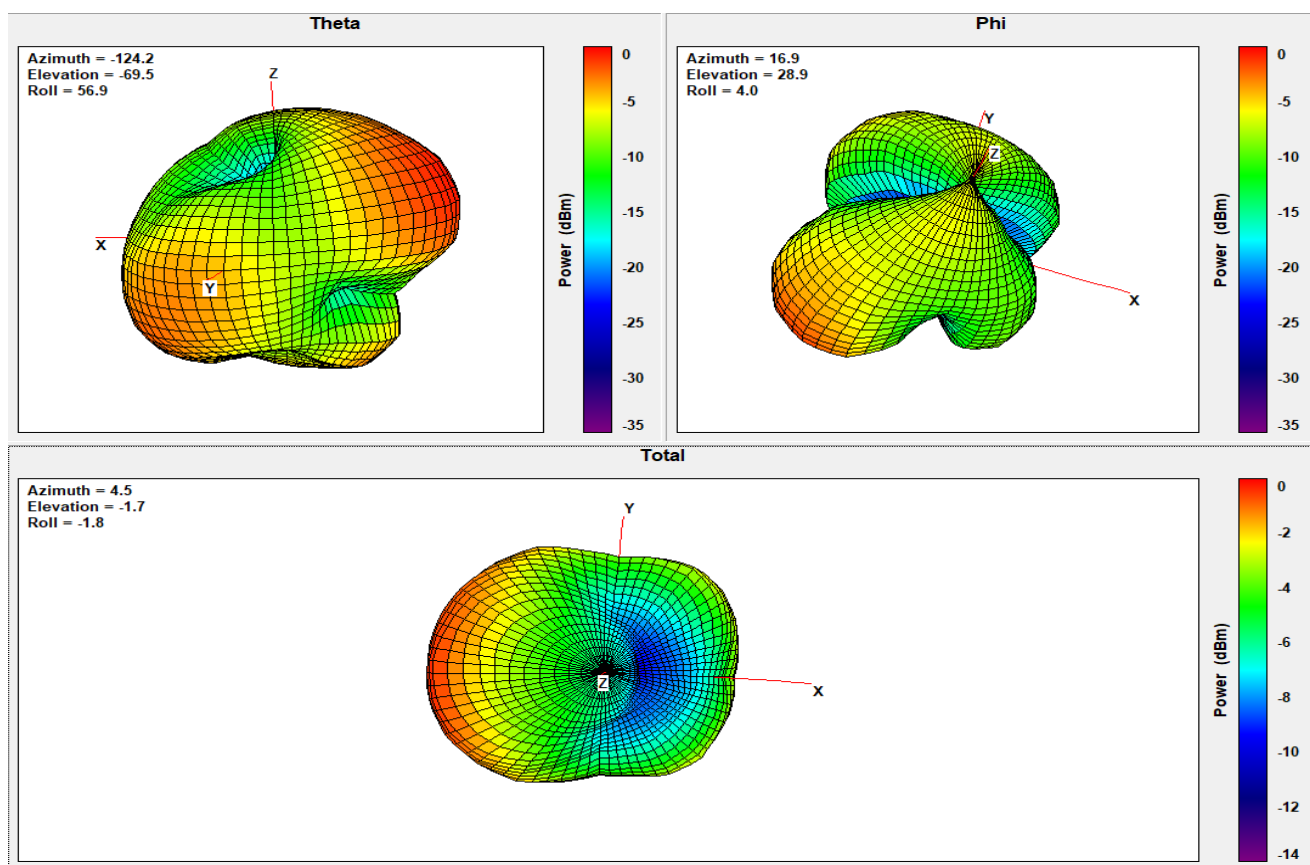
Span: Zero span

Test Equipment

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

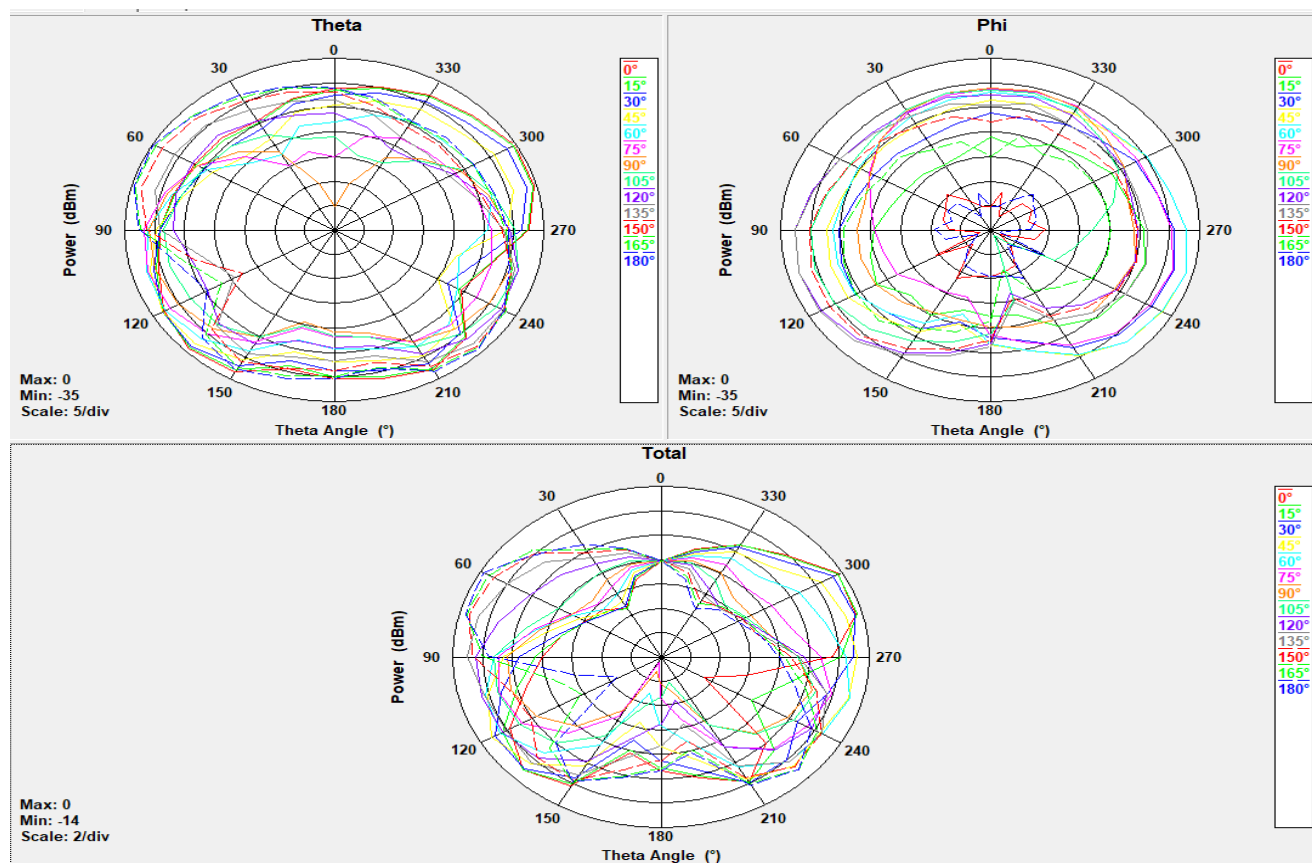
Client: XPLOER	PR Number: PR185733
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2404 MHz



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2404 MHz

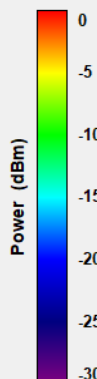
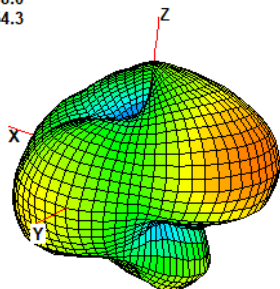


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2440 MHz

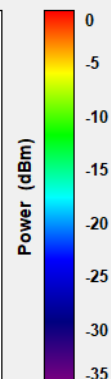
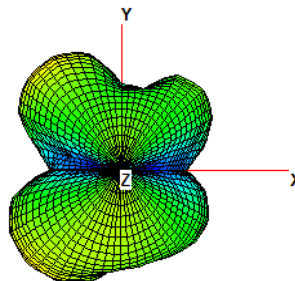
Theta

Azimuth = -118.0
Elevation = -54.3
Roll = 49.0



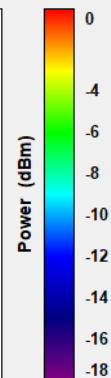
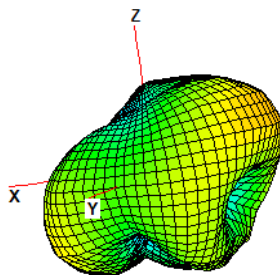
Phi

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



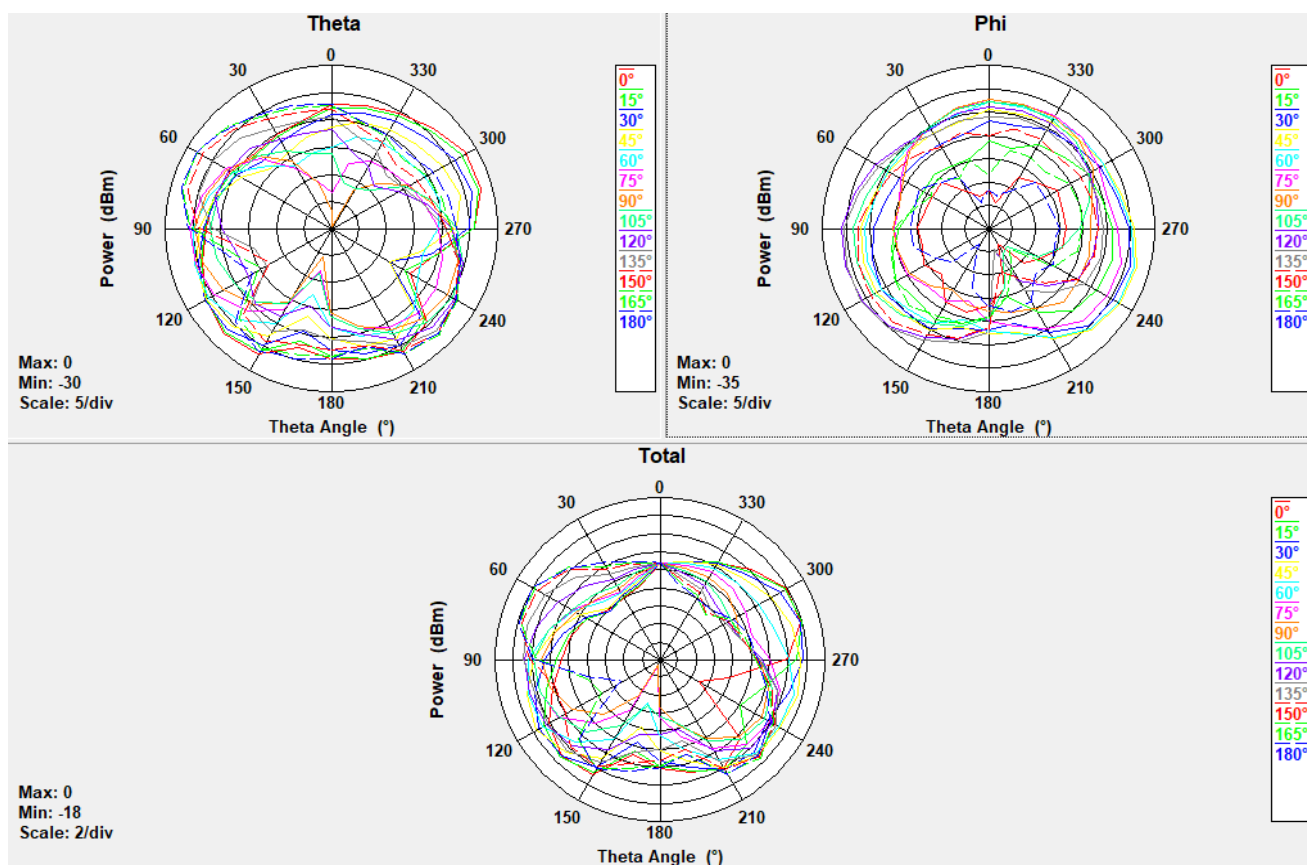
Total

Azimuth = -112.8
Elevation = -69.5
Roll = 74.3



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2440 MHz

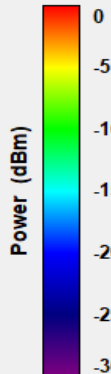
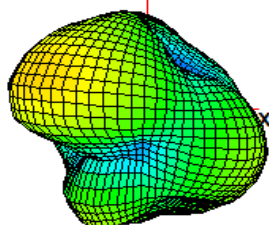


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2476 MHz

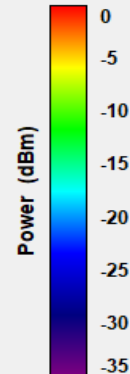
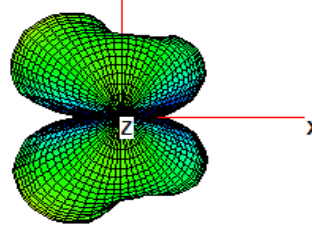
Theta

Azimuth = -82.1
Elevation = 44.6
Roll = 81.3



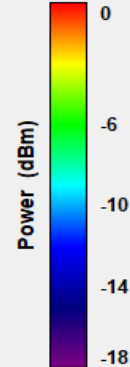
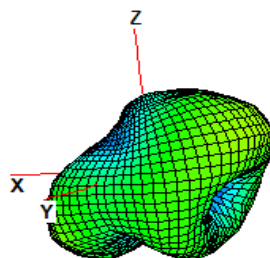
Phi

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



Total

Azimuth = -107.4
Elevation = -58.7
Roll = 77.2



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2476 MHz

