

ANTENNA TEST REPORT

Applicant Oro Technology Co., Ltd.
3F, No.29, 21st Road, Industrial Park, Taichung 408, Taiwan

Brand ORO

Manufacturer Oro Technology Co., Ltd.
3F, No.29, 21st Road, Industrial Park, Taichung 408, Taiwan

Product Name Tire Pressure Monitoring System Antenna

Model Name M02AN00014

Report No 4792247189

Received Date 2026/8/4

Test Period 2026/8/5

Issued Date 2026/8/25

Prepared By:



James Chan Date : 2026/8/25
Laboratory Test Engineer

Approved and Authorized By:



Eric Lee Date : 2026/8/25
Senior Laboratory Engineer

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report are responsible of the test sample(s) provided by the client only and are not to be used to indicate applicability to other similar products.

Release Note

Rev.	Date	Revisions Contents	Revised By
Original	2026/8/25	Initial issue	-

Table of Contents

1. Description of Antenna	4
M02AN00014	4
2. Test Frequency and Polarization	5
3. Test Location and Address	6
4. Measuring Instrument List (Test Equipment)	7
5. Test Connection Diagram and Condition	8
6. Test Procedure	9
7. Test Result	10
Appendix I : Photographs of Test Configuration	11
Appendix II : Photographs of the Antenna Outview	12
Appendix III : Antenna Pattern	13

1. Description of Antenna

Ant. No.	Brand Name	Model Name	Ant. Type	Operation Mode
1	ORO	M02AN00014	Monopole	433.92MHz

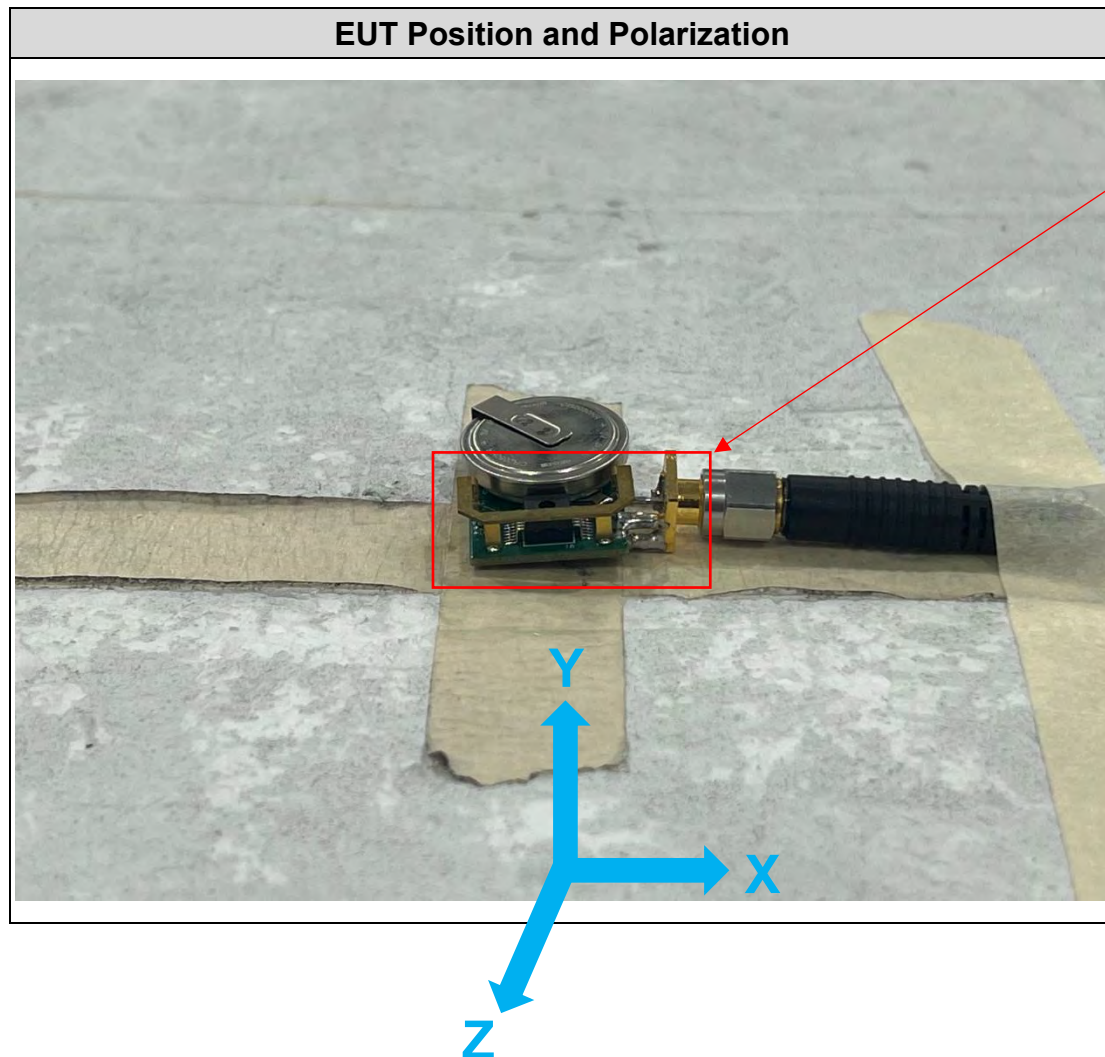
Note:

1. The above Antenna information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

2. Test Frequency and Polarization

The tests frequency is declared by manufacturer.

Band (MHz)	Test Frequency (MHz)
433.92	433.92 MHz



3. Test Location and Address

Test Location	Underwriters Laboratories Taiwan Co., Ltd.,
Address	Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Description	All measurement facilities use to collect the measurement data are located at Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

4. Measuring Instrument List (Test Equipment)

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

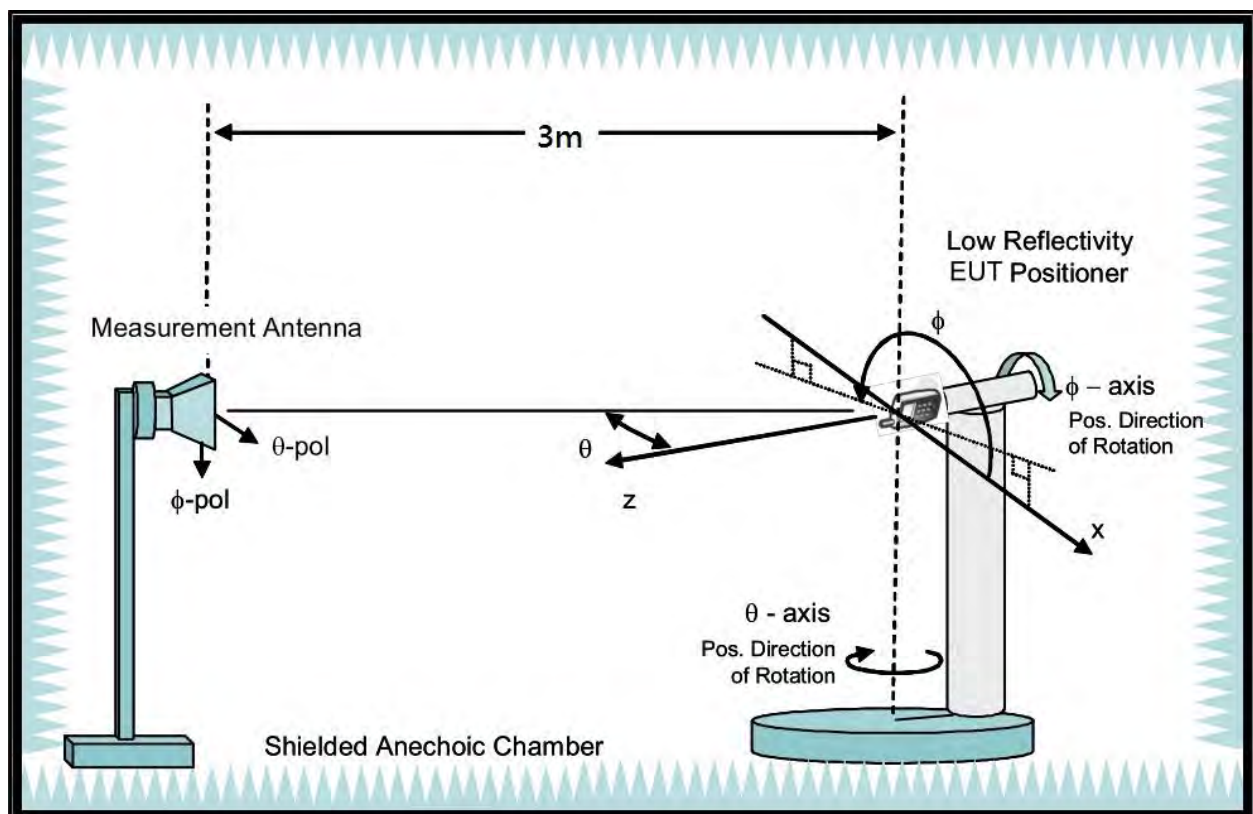
Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired Date
Trilog-Broadband Antenna	Schwarzbeck	VULB 9163 & N-6-05	1059 & N0537	2025/12/29	2026/12/28
Signal Generator	Keysight	N5173B	MY53271122	2025/12/2	2026/12/1
Spectrum Analyzer	Keysight	N9010A	MY56070818	2026/2/9	2027/2/8
Cables	Marvelous Microwave	140140.LL404.60	01	2025/11/28	2026/11/27
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2025/11/21	2026/11/20

UL Software

Software	Version
e3 (SG&SA used)	6.191211 (V6)

5. Test Connection Diagram and Condition

Test Facility	Test Site No.	Environmental Condition	Test Date	Tested by
Fully Anechoic Chamber	1277	25°C / 62%RH	2026/8/5	Scott Chang



6. Test Procedure

1. Set the Calibration Antenna on multi-axis positioner and connect to signal generator for capture the correction factor.
2. Signal generator insertion normalize and calculate the standard antenna factor with spectrum analyzer.
3. Calibration Antenna change to the EUT's antenna.
4. The EUT is then stepped between 0 to 360 degrees along the theta axis.

7. Test Result

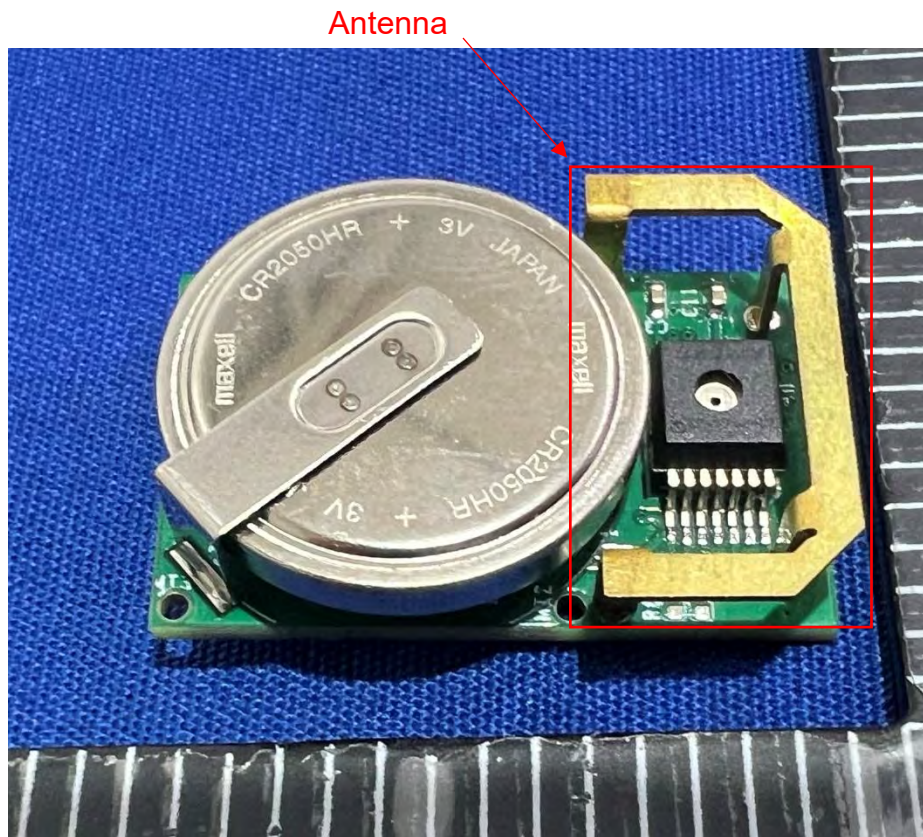
Maximum gain result refer below table:

Polarization	Test Frequency (MHz)	X-Y Plane Gain (dBi)	X-Z Plane Gain (dBi)	Y-Z Plane Gain (dBi)
Vertical	433.92 MHz	-24.64	-28.94	-33.68
Horizontal	433.92 MHz	-26.79	-22.17	-23.29

Appendix I : Photographs of Test Configuration

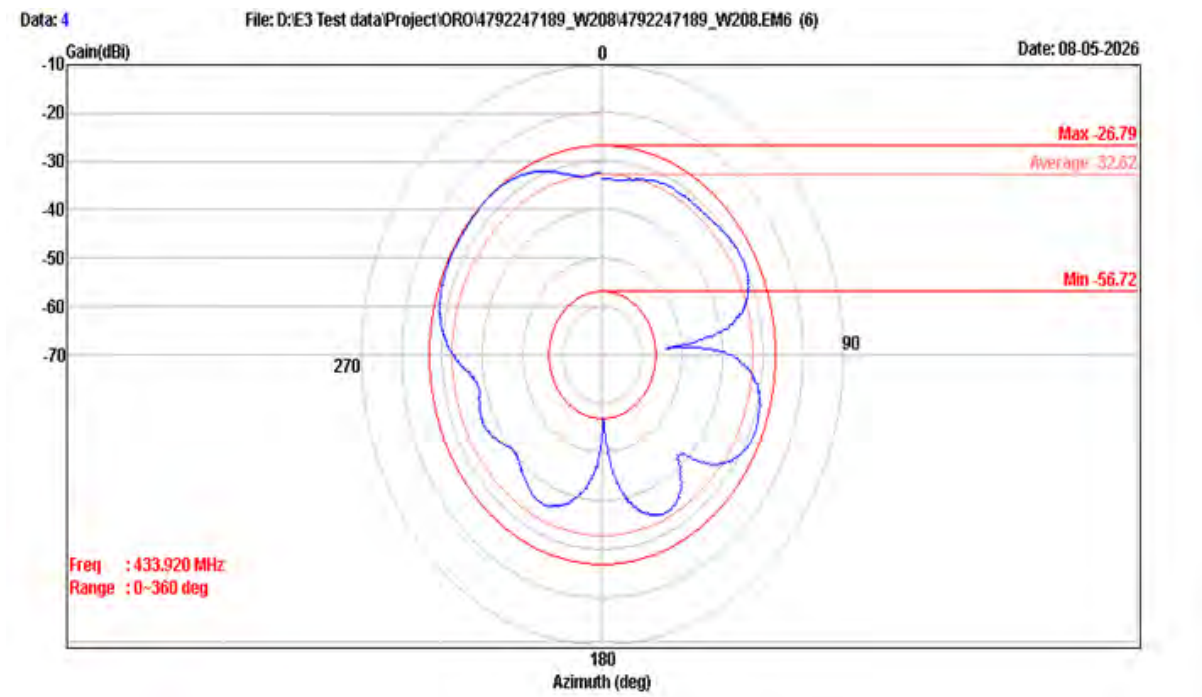


Appendix II : Photographs of the Antenna Outview

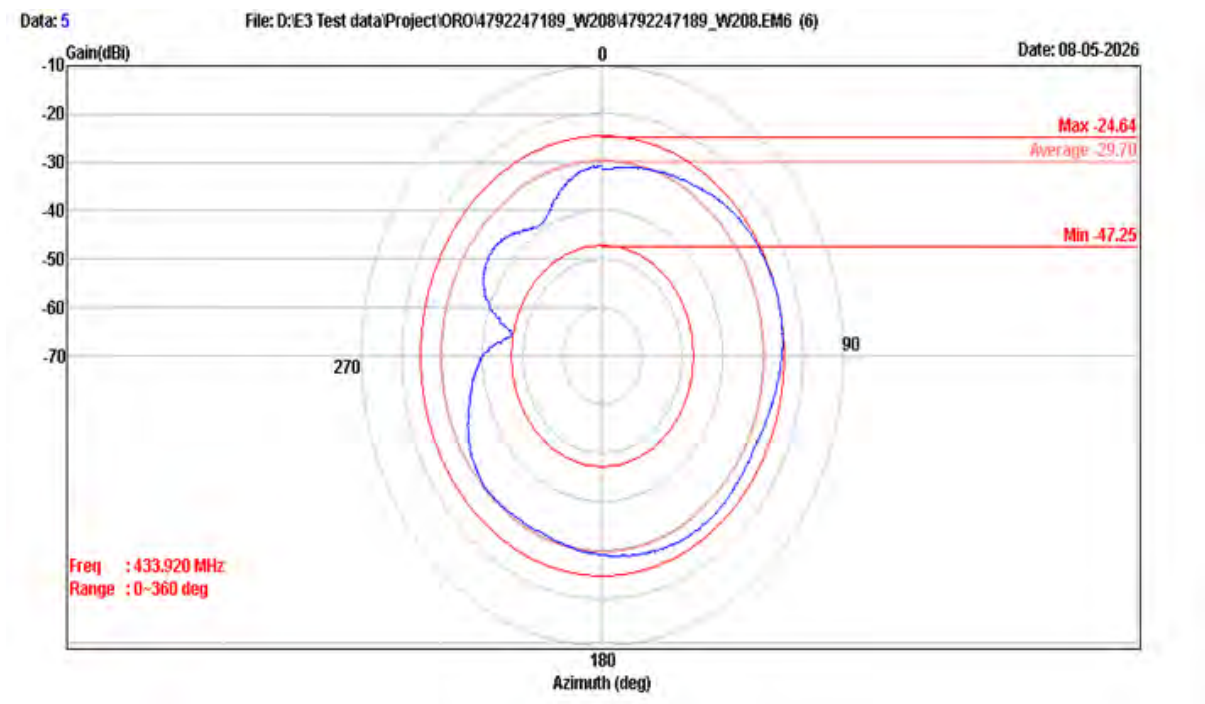


Appendix III : Antenna Pattern

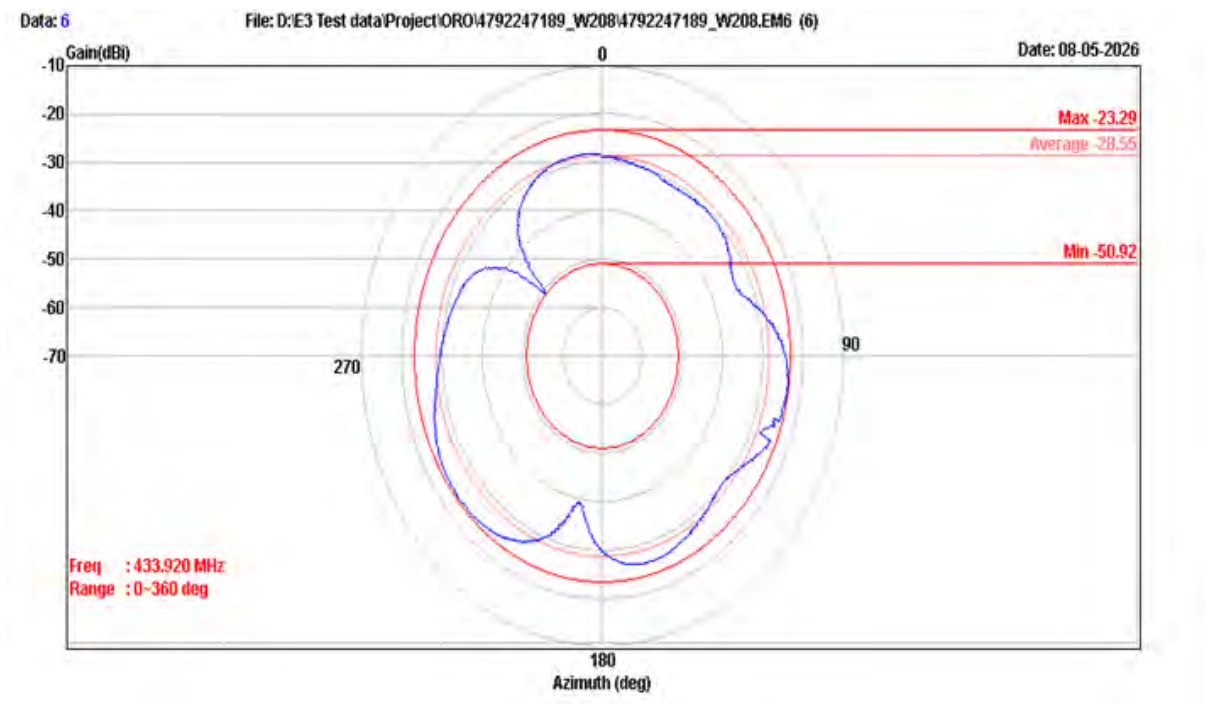
Condition	HORIZONTAL
Test Mode	XY
Tested by	Scott Chang
Note	



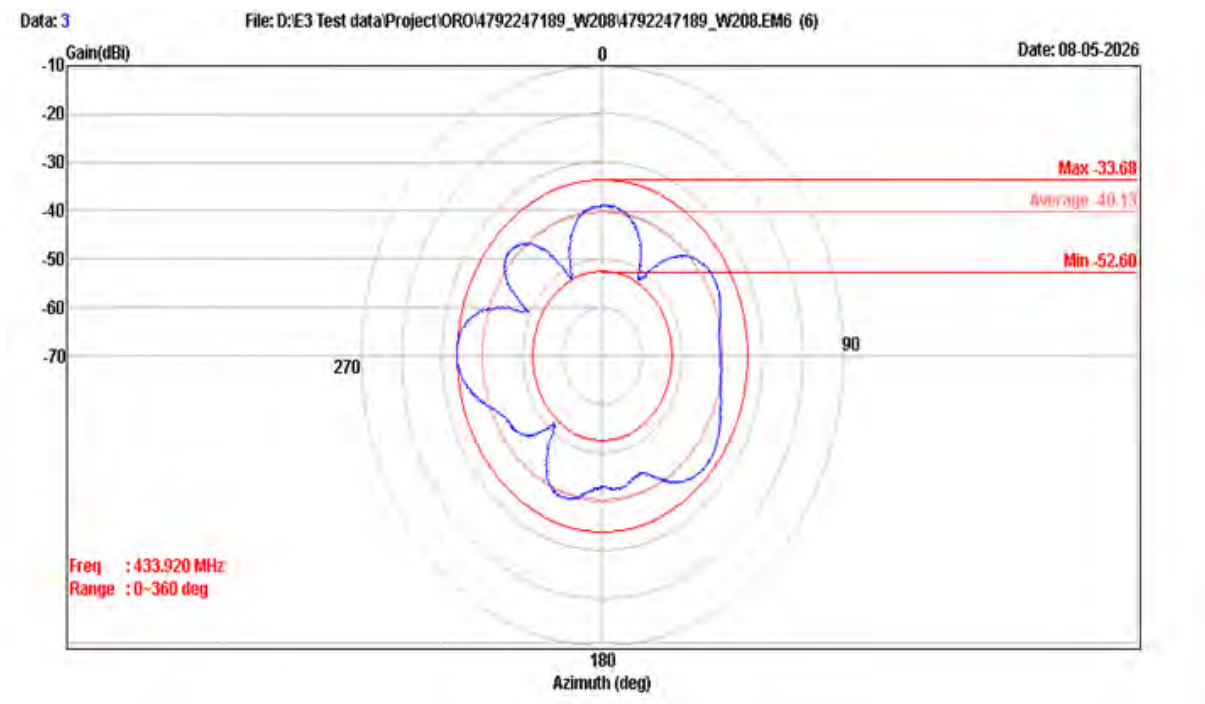
Condition	VERTICAL
Test Mode	XY
Tested by	Scott Chang
Note	



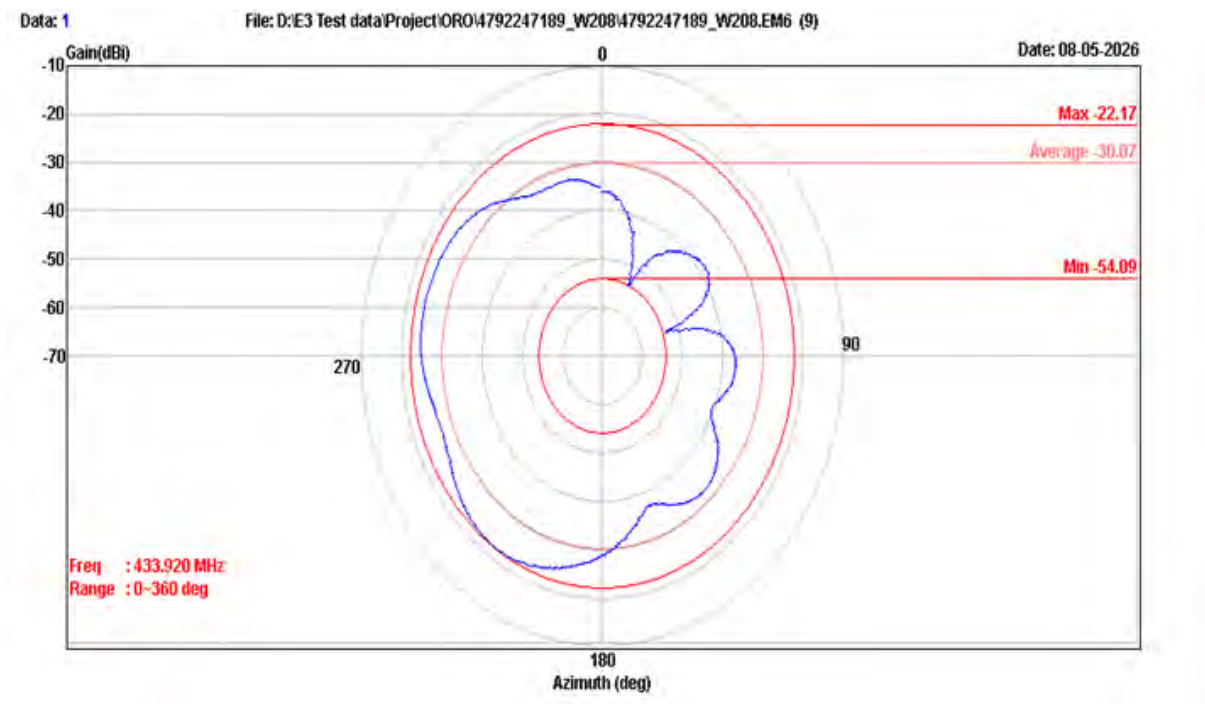
Condition	HORIZONTAL
Test Mode	YZ
Tested by	Scott Chang
Note	



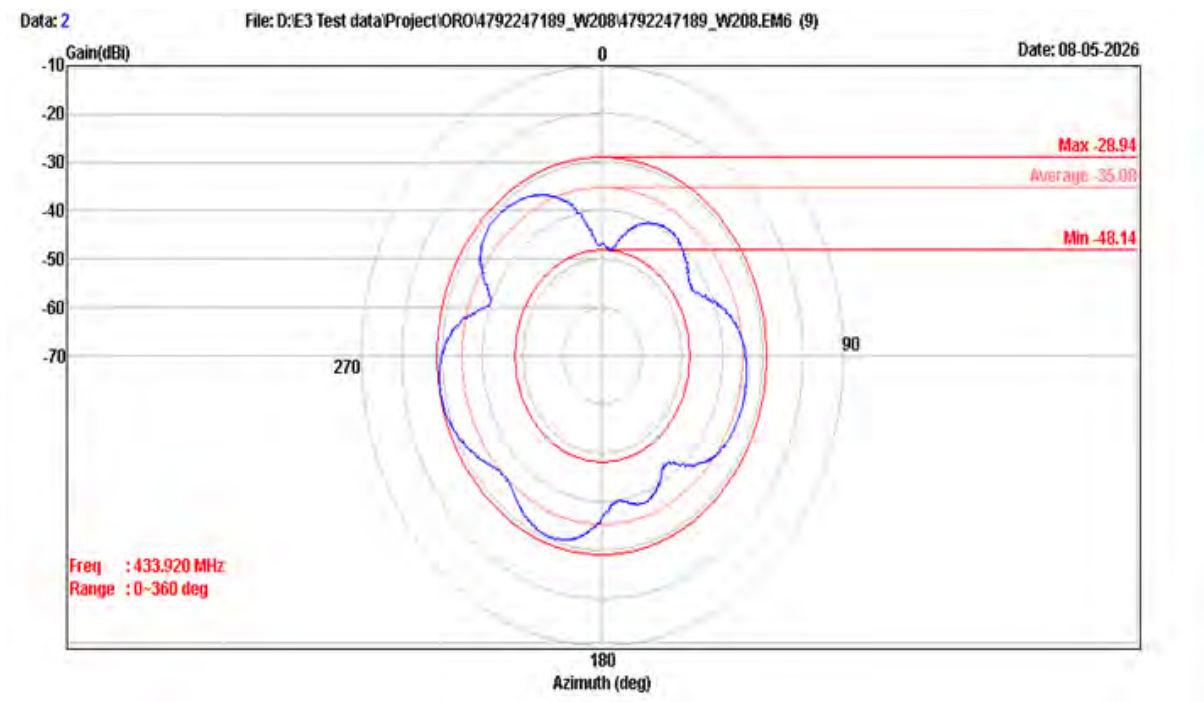
Condition	VERTICAL
Test Mode	YZ
Tested by	Scott Chang
Note	



Condition	HORIZONTAL
Test Mode	XZ
Tested by	Scott Chang
Note	



Condition	VERTICAL
Test Mode	XZ
Tested by	Scott Chang
Note	



END OF REPORT