

ANTENNA TEST REPORT

Applicant Pacific Kitchen Appliance Co.,Ltd.
66 Ln 375 Sec 2 Sanfeng Rd Fengyuan District Taichung,
420

Brand PACIFIC

Manufacturer Pacific Kitchen Appliance Co.,Ltd.
66 Ln 375 Sec 2 Sanfeng Rd Fengyuan District Taichung,
420

Product Name Copper Wire Antenna

Model Name PK22-RF

Report No 4791783773

Received Date 2025/6/12

Test Period 2025/6/26

Issued Date 2025/8/22

Prepared By:



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Project Handler

Date : 2025/8/22

Approved and Authorized By:



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Senior Laboratory Engineer

Date : 2025/8/22

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Release Note

Rev.	Date	Revisions Contents	Revised By
Original	2025/8/22	Initial issue	-

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1. Description of Antenna

Ant. No.	Brand Name	Model Name	Ant. Type	Operation Mode
1	TLC	PK22-RF	Copper Wire	434MHz

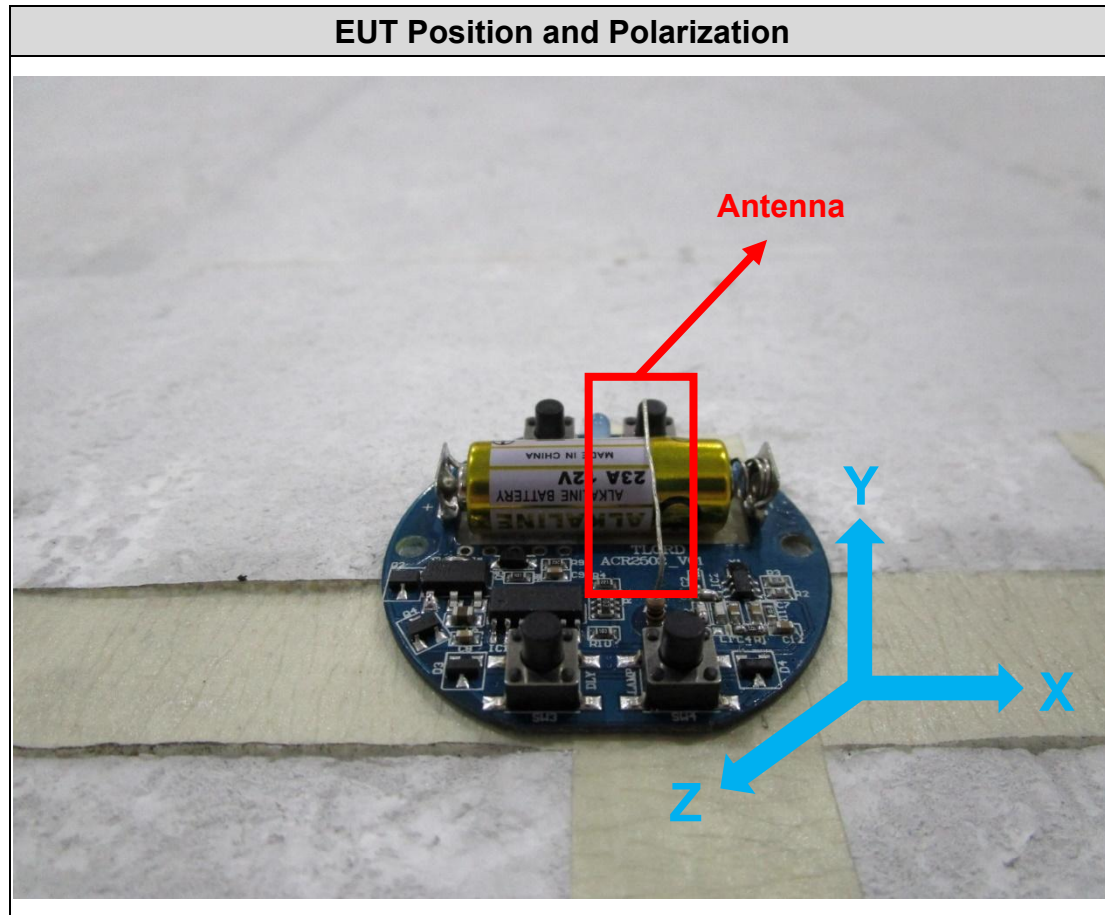
Note:

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)
434	434



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.

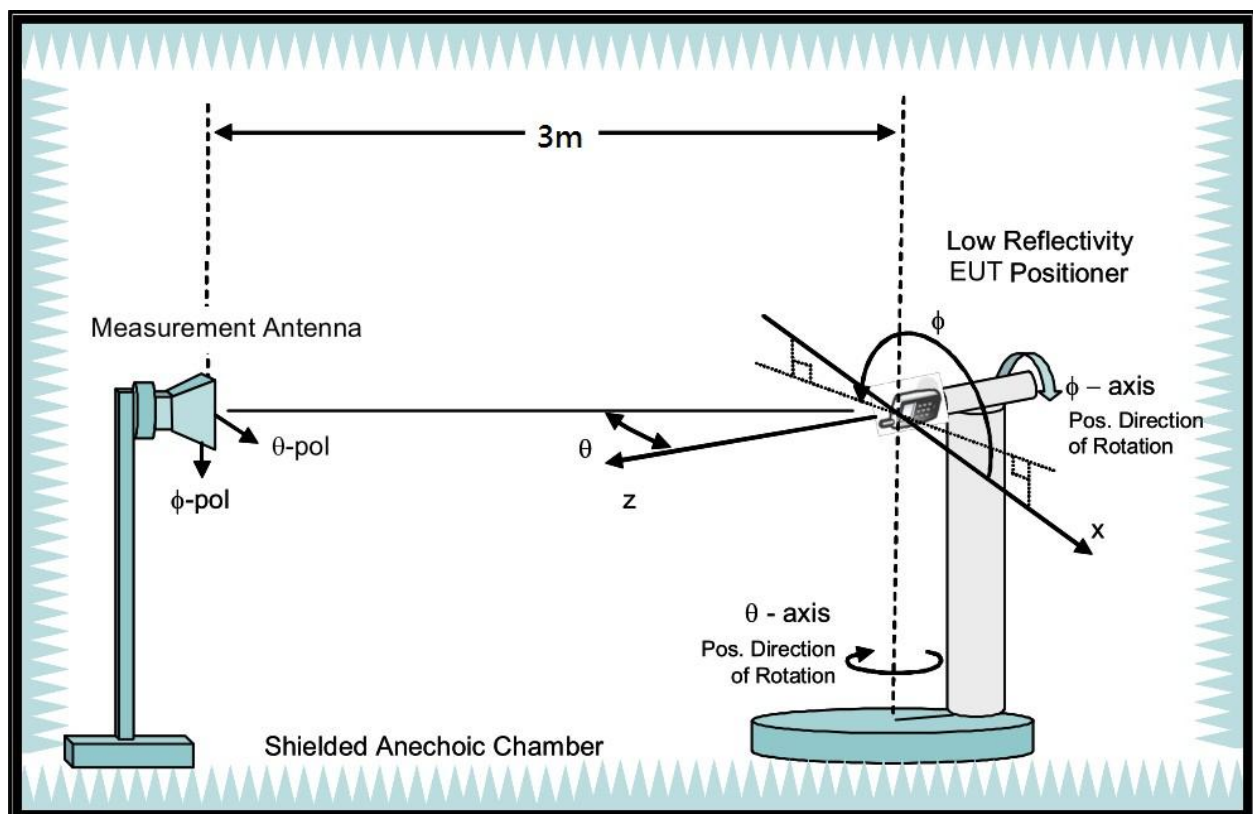
Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired Date
Trilog-Broadband Antenna	Schwarzbeck	VULB 9163 & N-6-05	1059 & N0537	2025/1/20	2026/1/19
Signal Generator	Keysight	N5173B	MY53271122	2024/12/3	2025/12/2
Spectrum Analyzer	Keysight	N9010A	MY56070818	2025/3/12	2026/3/11
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2024/11/22	2025/11/21
Cables	Hanyitek	HPMC40KM90KF	CB038	2025/1/16	2026/1/15

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	26°C / 69%RH	2025/6/26	Waternil Guan



6. Test Procedure

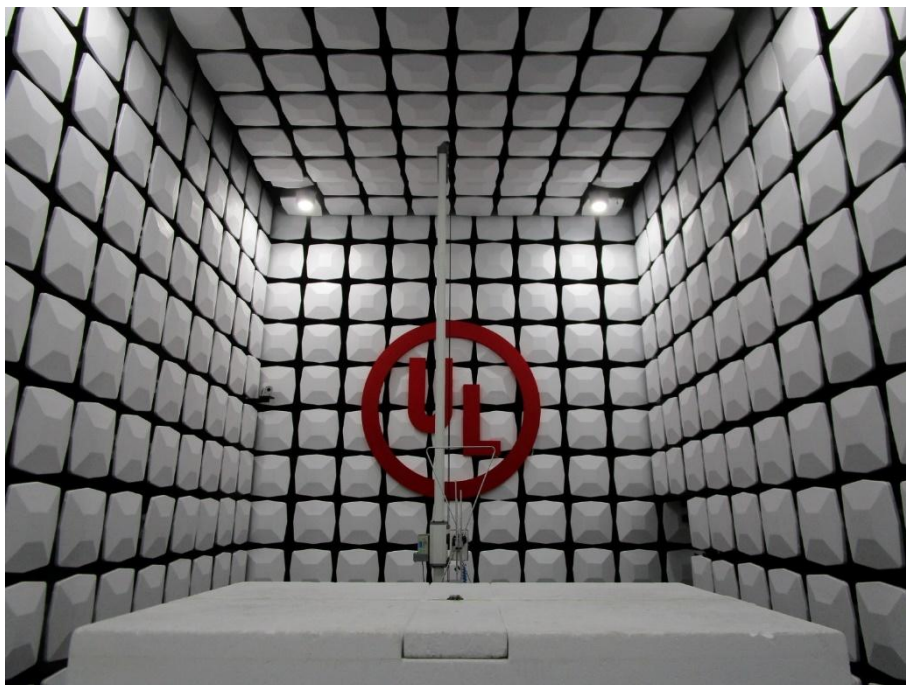
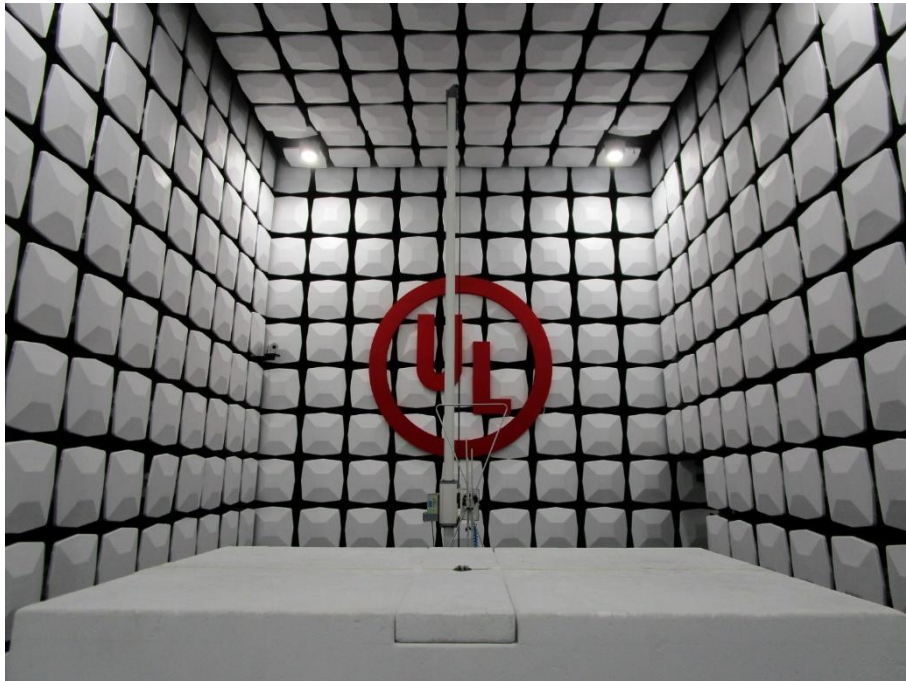
1. Set the Calibration Antenna on multi-axis positioner and connect to signal generator for capture the correction factor.
2. Signal generator insertion normalize and calculate the standard antenna factor with spectrum analyzer.
3. Calibration Antenna change to the EUT's antenna.
4. The EUT is then stepped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

7. Test Result

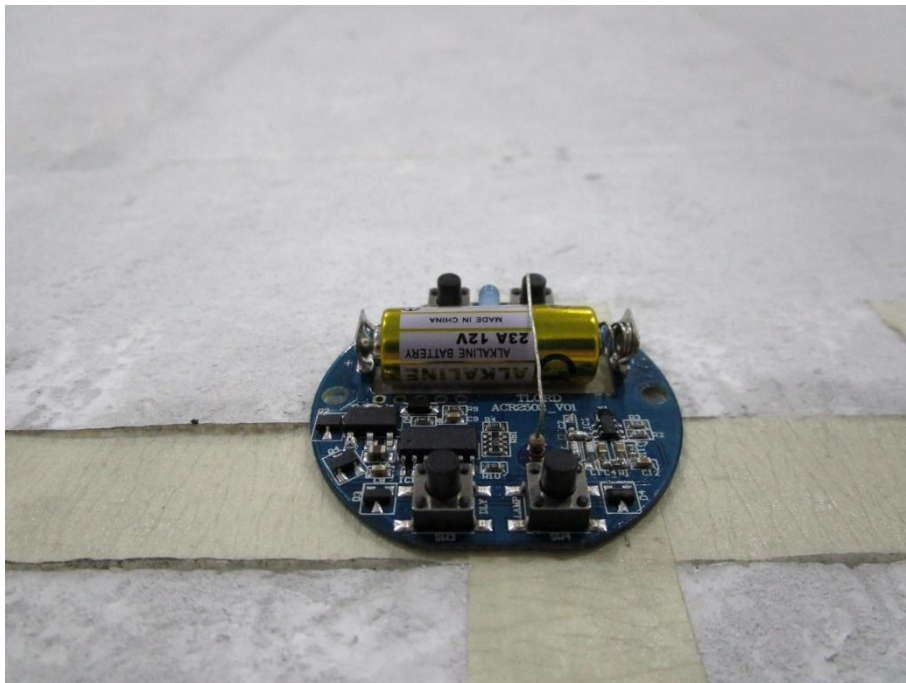
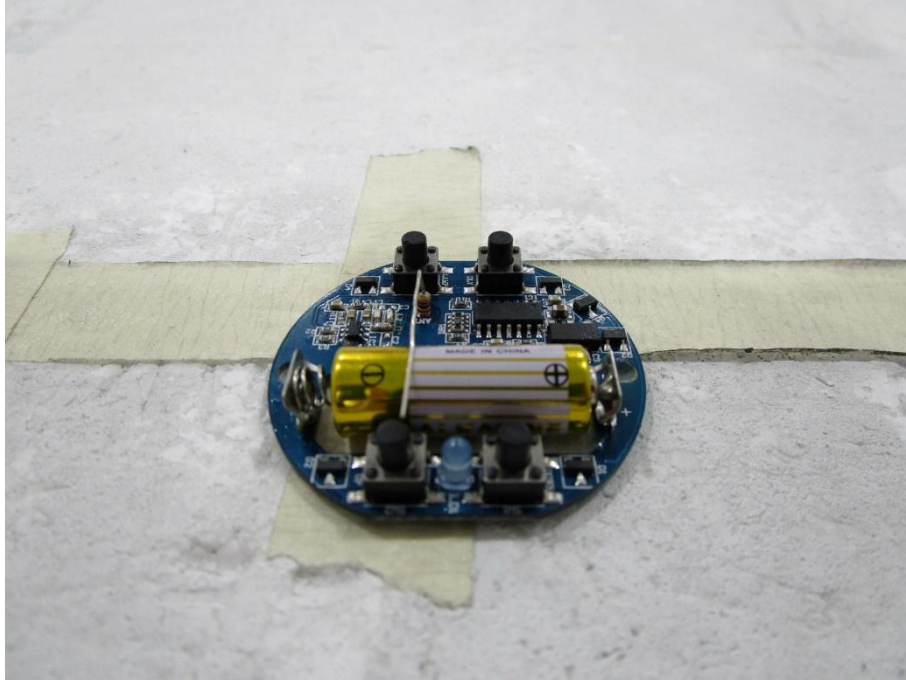
Maximum gain result refer below table:

Polarization	Test Frequency (MHz)	X-Y Plane Gain (dBi)	X-Z Plane Gain (dBi)	Y-Z Plane Gain (dBi)
Vertical	434 MHz	-19.51	-21.01	-23.44
Horizontal	434 MHz	-15.00	-16.42	-20.08

Appendix I : Photographs of Test Configuration

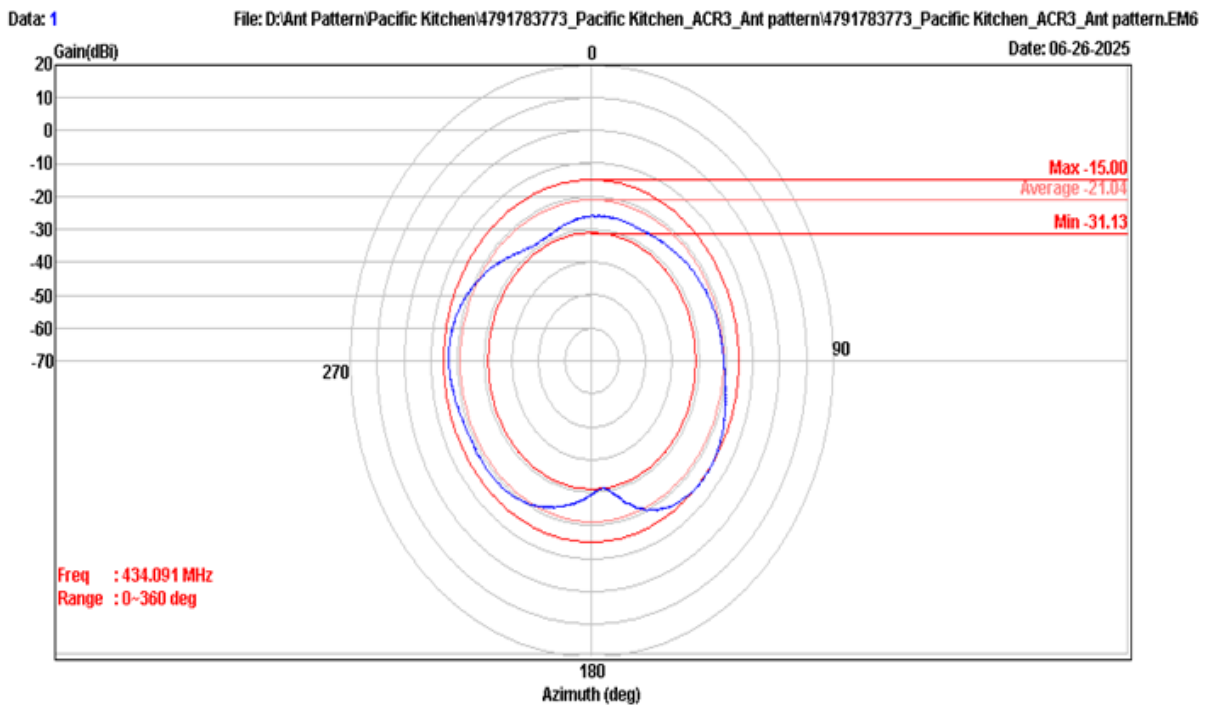


Appendix II : Photographs of the Antenna Outview

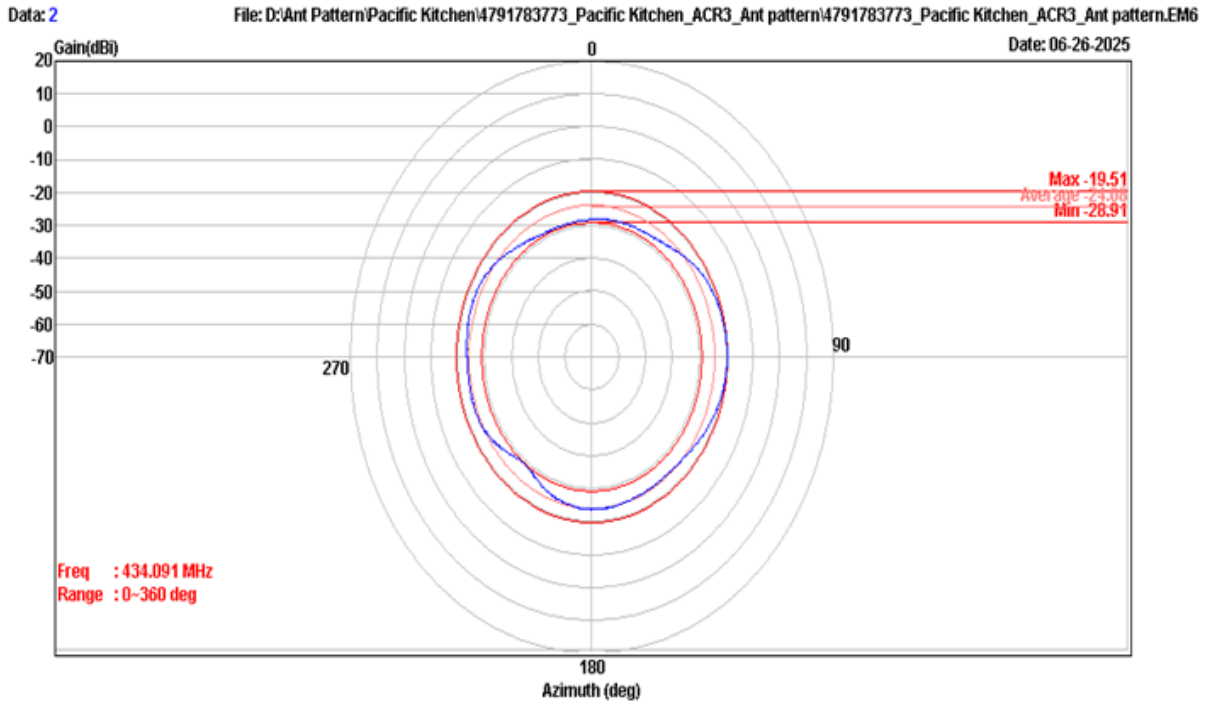


Appendix III : Antenna Pattern

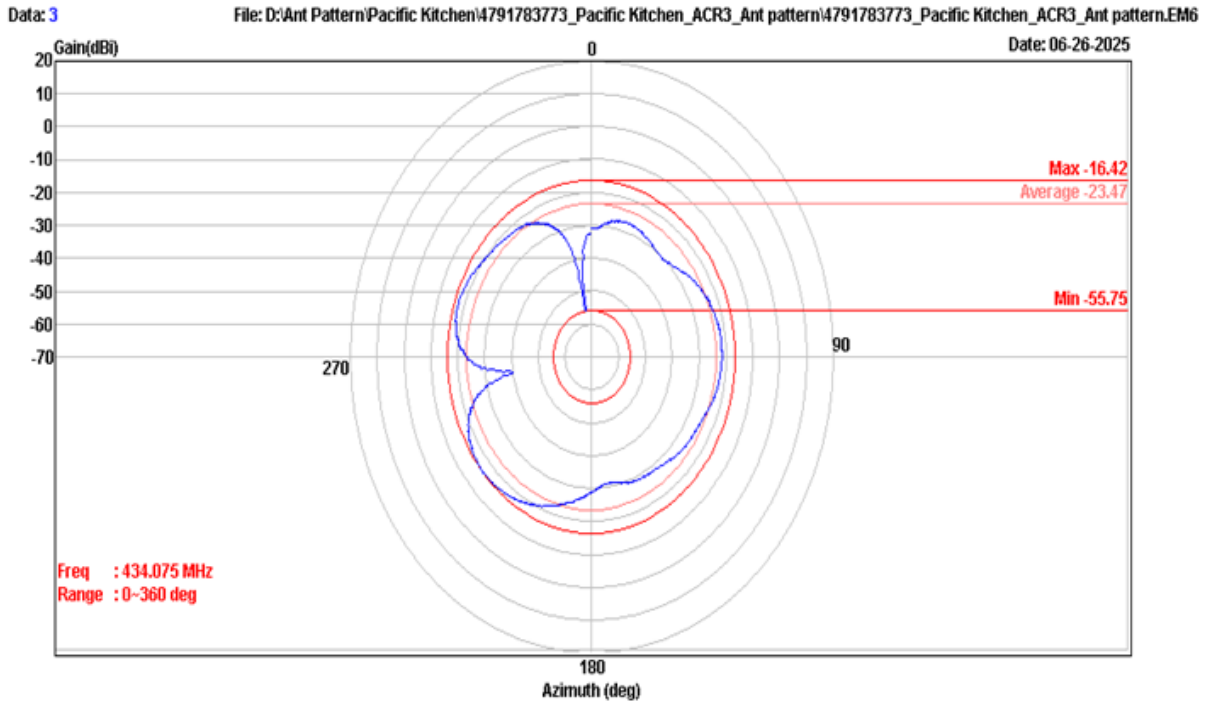
Condition	HORIZONTAL
Test Mode	434MHz_(XY)
Tested by	WaterNil
Note	



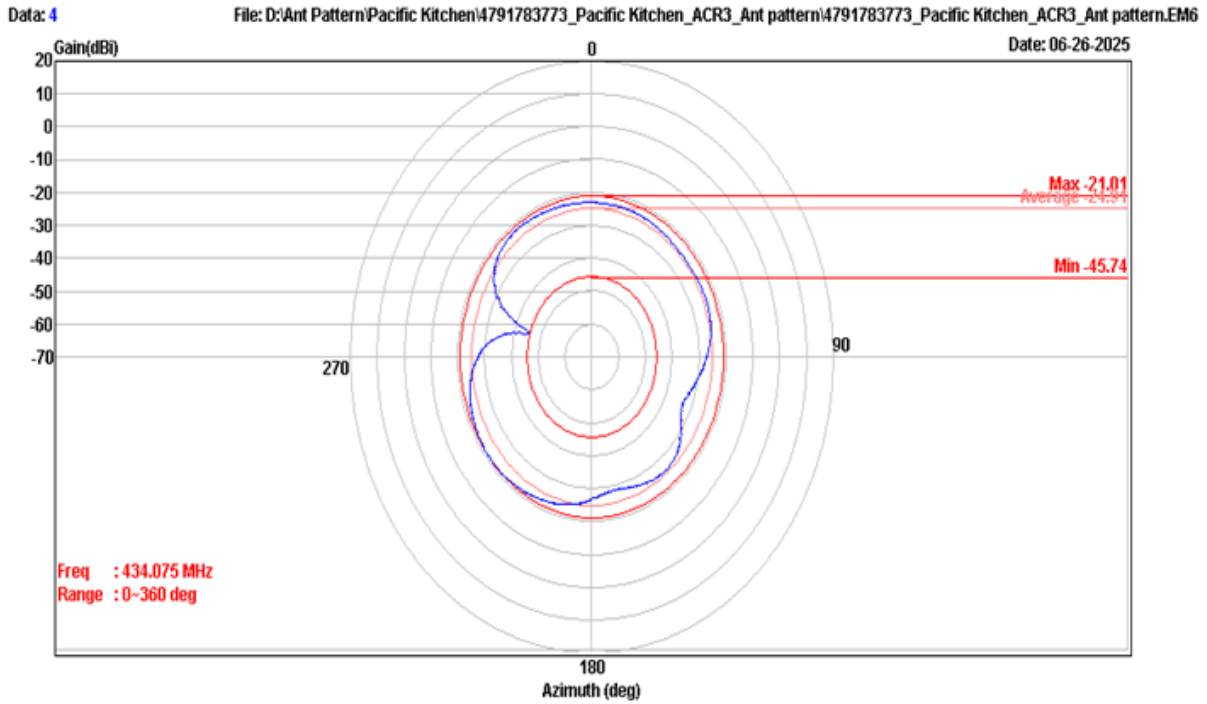
Condition	VERTICAL
Test Mode	434MHz_(XY)
Tested by	WaterNil
Note	



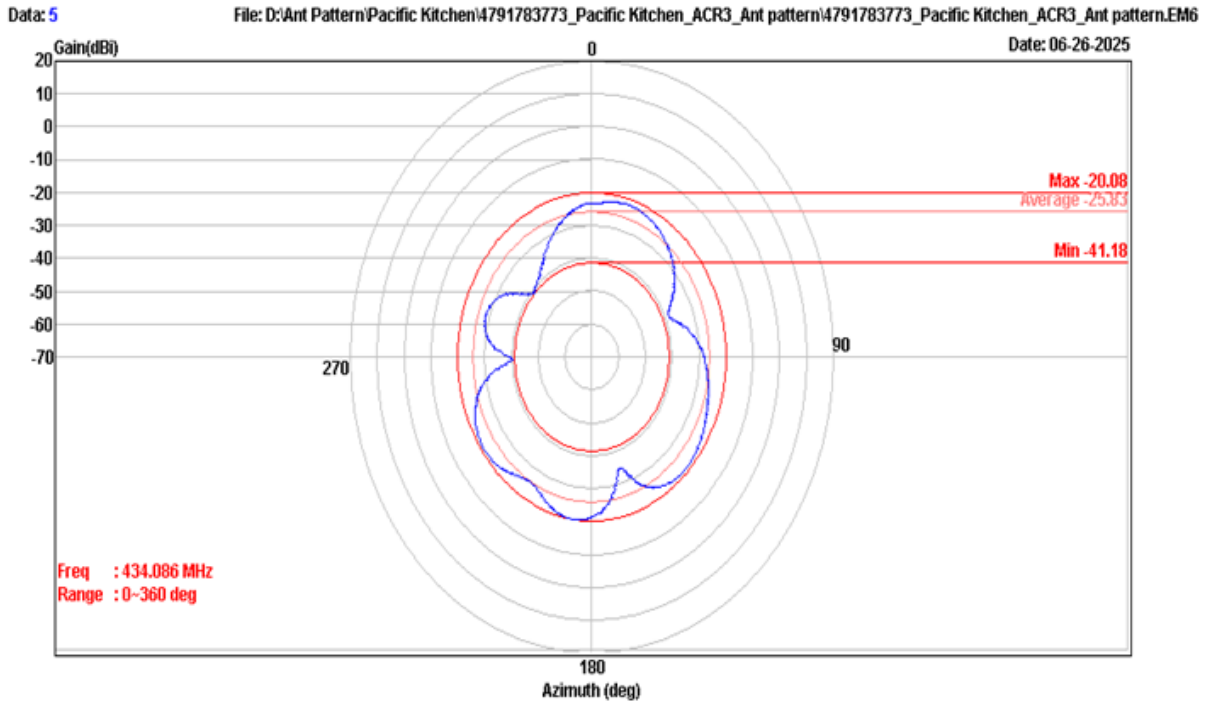
Condition	HORIZONTAL
Test Mode	434MHz_(XZ)
Tested by	WaterNil
Note	



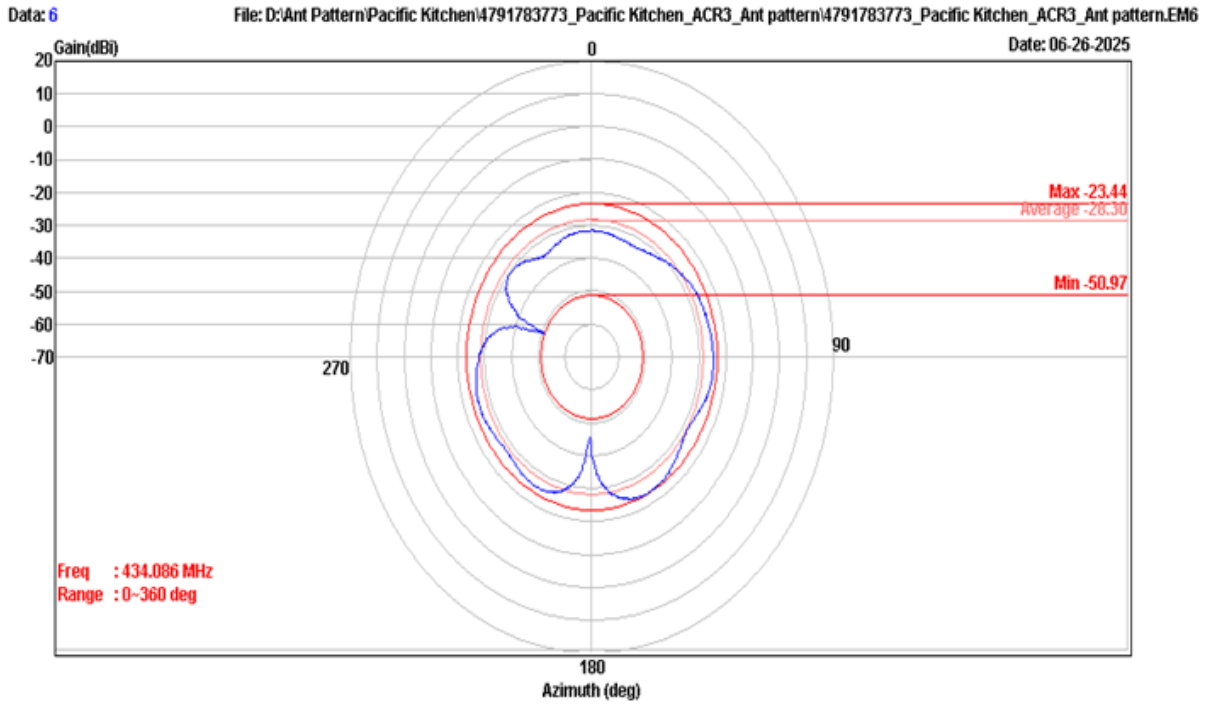
Condition	VERTICAL
Test Mode	434MHz_(XZ)
Tested by	WaterNil
Note	



Condition	HORIZONTAL
Test Mode	434MHz_(YZ)
Tested by	WaterNil
Note	



Condition	VERTICAL
Test Mode	434MHz_(YZ)
Tested by	WaterNil
Note	



END OF REPORT