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Acknowledgment

Customer Name: Aputure

Project Name: MR82-50B

Product Spec:

Name: Antenna / Model: SLT82-32

REV: V1.0

Date: 2025-07-18

1 Antenna Tests

1.1 Test Conditions

The integrated antenna of SLT82-32 requires an appropriate ground plane for effective radiation. The area below and extending from the module's antenna section should be kept clean, avoiding copper and other metals. The module should be placed on the edge of the PCB with the antenna's edge facing outward.

The RF layout and ground plane dimensions for the antenna test are shown below.

Figure 1-1 RF Layout and Ground Plane

2 End of Test

2.1 Antenna Test Results

Table 2-1 Antenna test results

Test / Position	Gain / Free Space		
	2402	2440	2480
Frequency (MHz)	2402	2440	2480
Avg Gain	-1.8	-1.3	-1.0
Peak Gain	2.6	2.6	3.1
Directivity	4.4	3.9	4.1
Efficiency	-1.8	-1.3	-1.0
Efficiency (%)	66.1	73.7	79.5

2.2 Antenna Pattern

The antenna mode is tested under 2.1 test conditions, and the X-Y-Z direction is shown in the figure.

Figure 2-2 X-Y Plane Antenna Direction Diagram

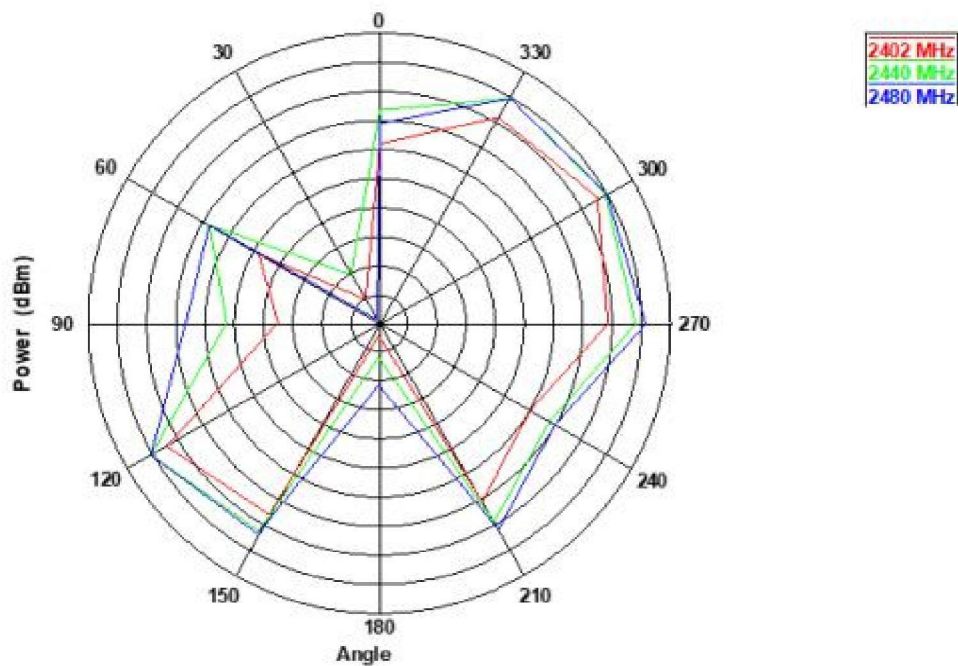


Figure 2-3 X-Z Plane Antenna Direction Diagram

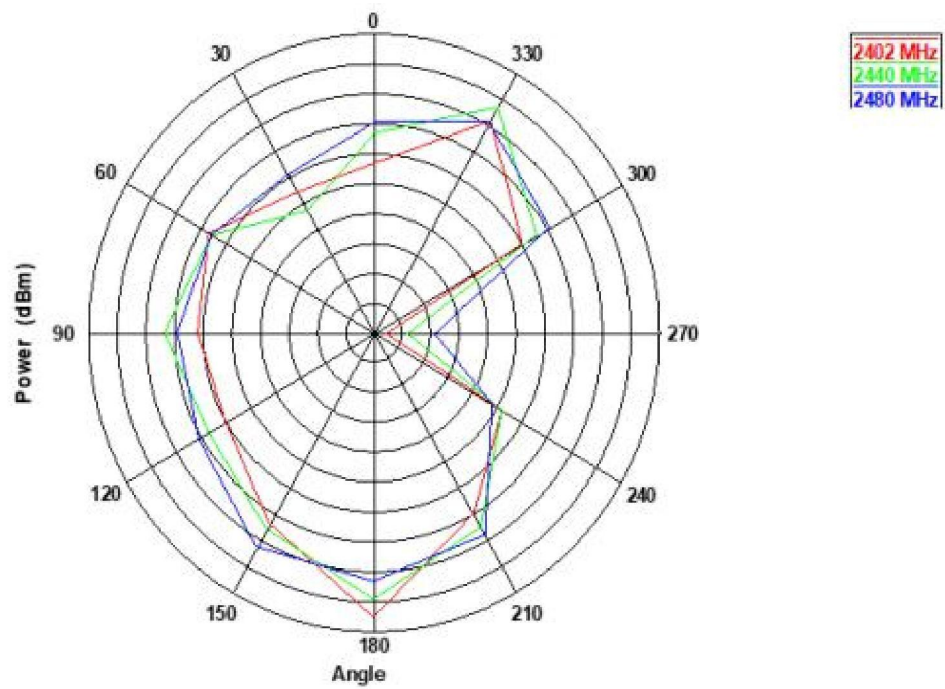


Figure 2-4 Y-Z Plane Antenna Direction Diagram

