

Antenna Report

Product Name: P-028

Manufacture: Dingnan Jinpeng Electronic Co., LTD
Address: Jinpeng Industrial Park, Futian Industrial Park, Dingnan County,
Ganzhou City, Jiangxi Province

Antenna Type: PCB antenna

Antenna Size: 6.5mm*0.5mm

Project Engineer: Issac

Test Standards: ANSI/IEEE Std 149-2021

Test software being used: Emquest

Software Version: 1.13

Test Result: PASS

Issued Date: 2024-09-25

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149- 2021

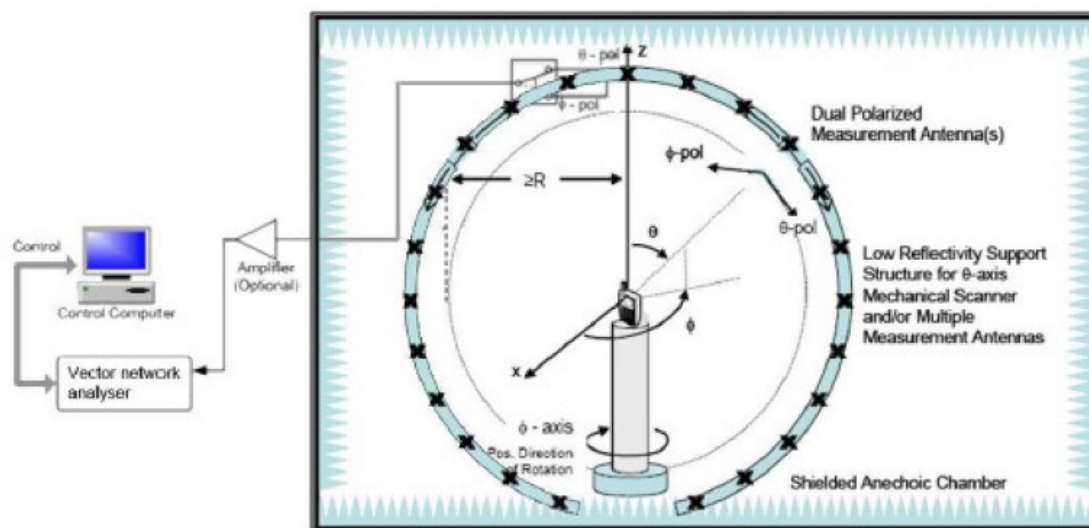
Equipment	Manufacturer	Model No	Serial No	Cal date	Cal Due
Network Analyzer	Agilent	E5071B	MY48360957	2023/12/20	2024/12/20
Quad-Ridge Horn Antenna	ETS	Apr-64	62743	2023/12/20	2024/12/20
700 MHz-6 GHz	ETS	7006	59957	2023/12/20	2024/12/20
MAPS Controller					
Switch Control System	ETS	7001	MY42001152	2023/12/20	2024/12/20

2 Test Temperature and Humidity

Temperature: 23.2°C

Humidity: 65%

Test Setup



Name	Shenzhen RFI-LAB Communication Technology Co.,Ltd.
Address	10/F A, Lingyun Bld, Liufang Rd, Baoan District, SZ
Tel	13682621346
E-mail	rfi-lab@tech-now.com

Antenna Report

Specifications

Summary

ITEM

SPEC

Model Name : P-O28

Center Frequency 2402MHz -1.97.dBi

2440MHz -1.41dBi

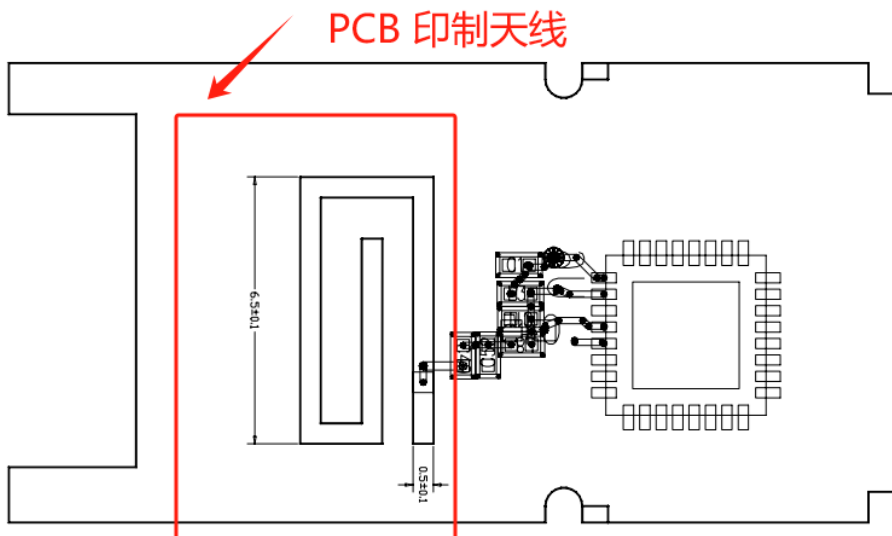
24780MHz -2.76dBi

MAX. GAIN -1.41 dBi

Polarization Horizontal

Azimuth Beam Pattern Omni directional

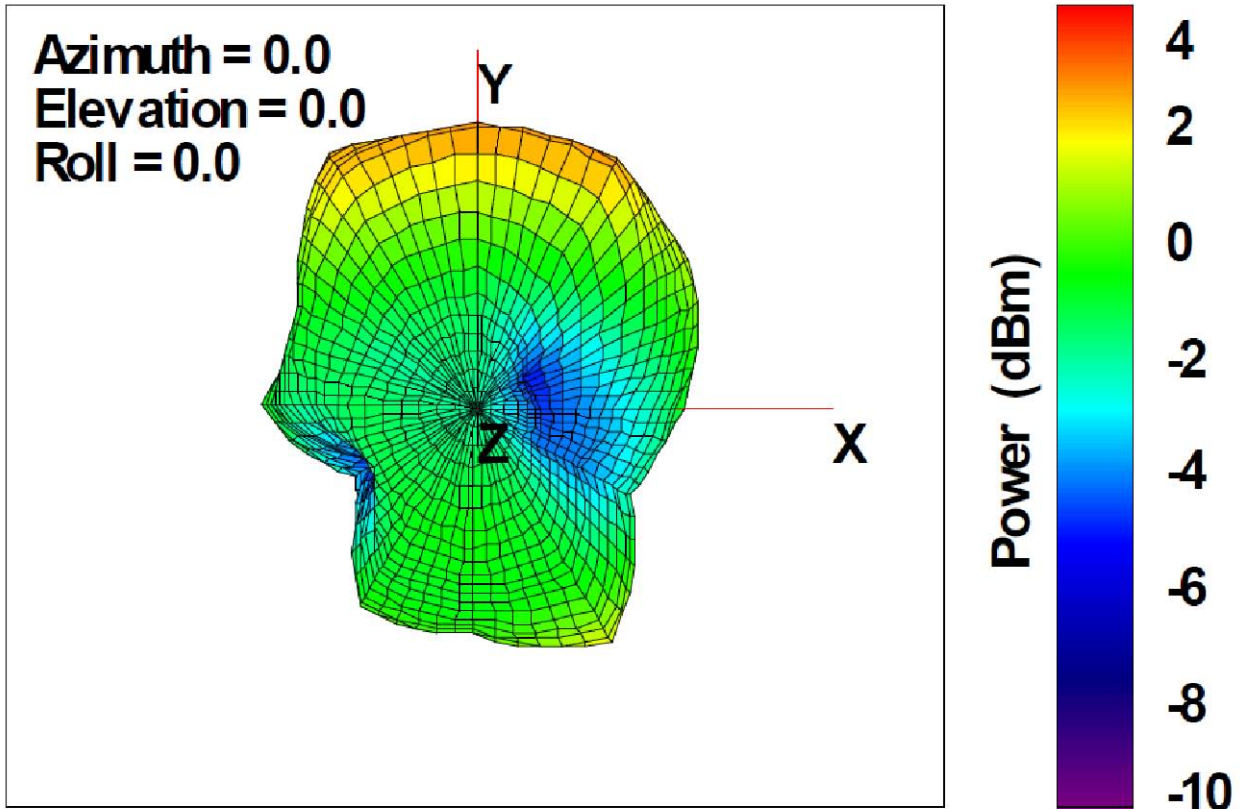
Impedance 50Ω



1. Main antenna : 2402MHz

1 . 1 H o r i z o n t a l

Total EIRP, Top View



Frequency (MHz): 2402 Antenna Polarity: Horizontal

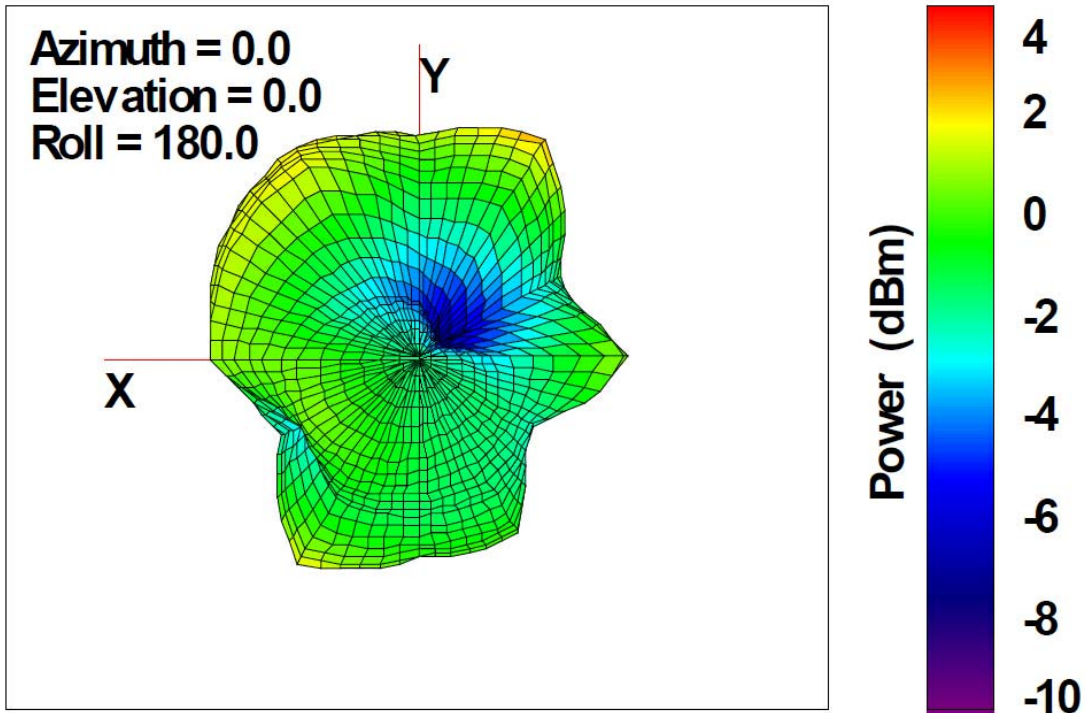
Maximum Value (dBi): -1.97

Average Gain (dBi) : - 8.12

Minimum Gain (dBi):-22.89

1.2.Vertical

Total EIRP, Bottom View



Frequency (MHz): 2402 Antenna Polarity: Vertical

Maximum Value (dBi): -6.72

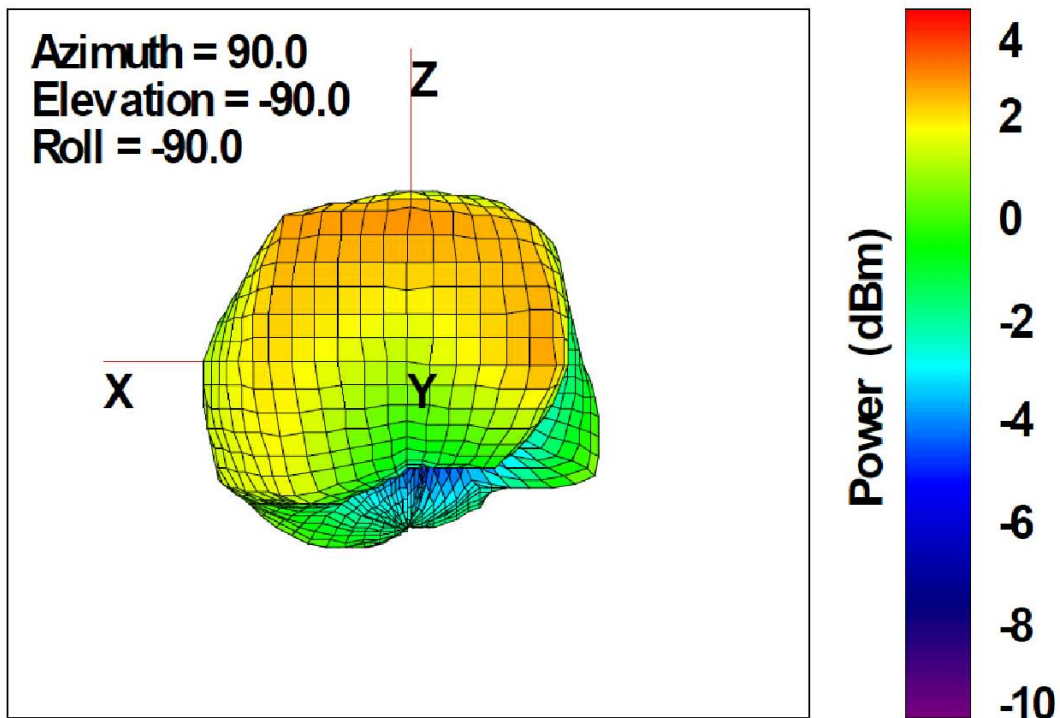
Average Gain (dBi): -12.67

Minimum Gain dBi: -25.42

2. Main antenna : 2440MHz

2.1 Horizontal

Total EIRP, Right Side View



Frequency (MHz): 2440 Antenna Polarity:Horizontal

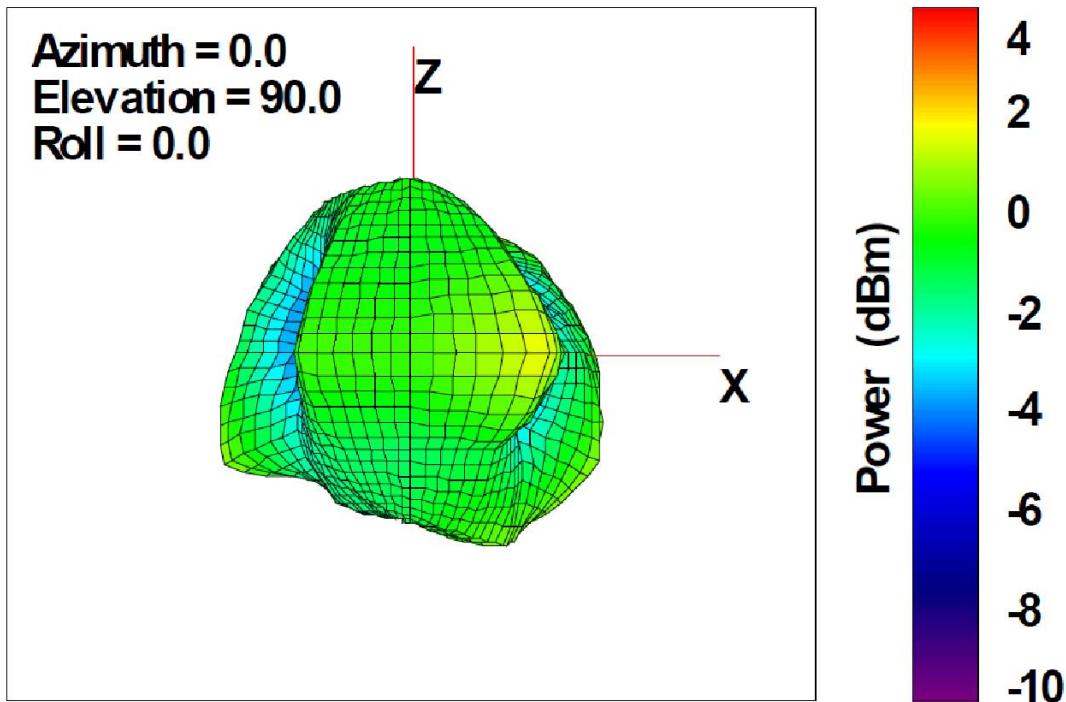
Maximum Value (dBi): -1.41

Average Gain (dBi): - 7.99

Minimum Gain(dBi):- 32.62

2.2 Vertical

Total EIRP, Left Side View



Frequency (MHz): 2440 Antenna Polarity: Vertical

Maximum Value (dBi): -3.8

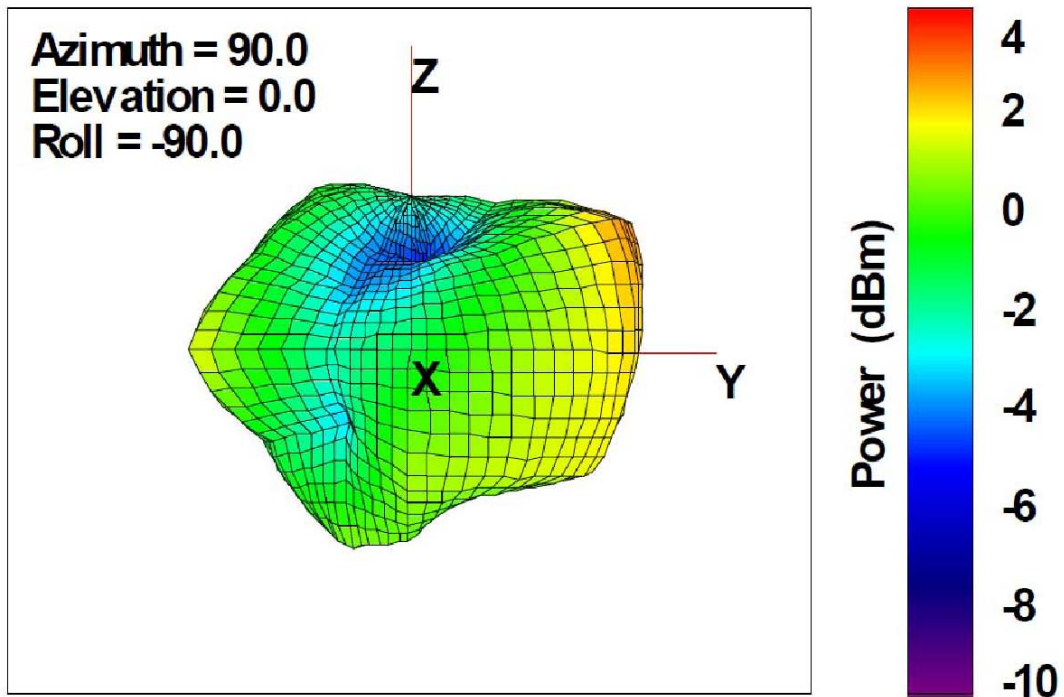
Average Gain(dBi): -12.31

Minimum Gain (dBi) : -25.91

3. Main antenna : 2480MHz

2.1 Horizontal

Total EIRP, Front View



Frequency (MHz): 2480 Antenna Polarity: Horizontal

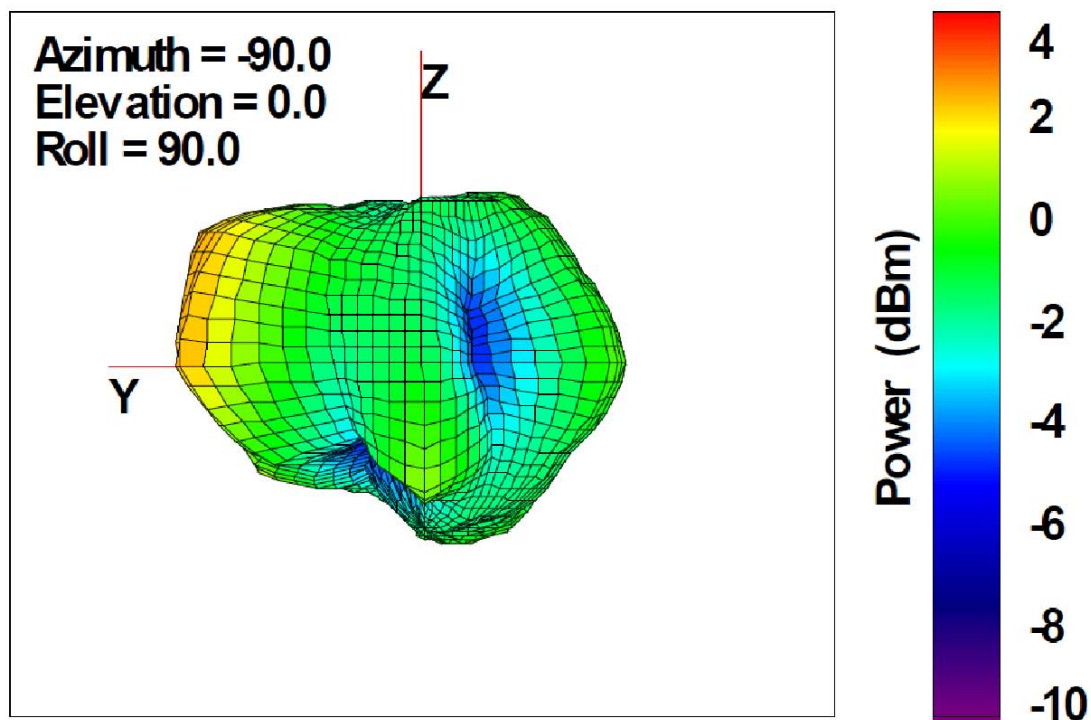
Maximum Value (dBi) : -2.76

Average Gain (dBi) : - 6.67

Minimum Gain (dBi) : - 25.61

2.2 Vertical

Total EIRP, Back View



Frequency (MHz) : 2480 Antenna Polarity: Vertical

Maximum Value (dBi): -4.30

Average Gain (dBi): - 9.66

Minimum Gain (dBi): - 27.96

ANNEX C TEST SETUP PHOTO

