

2 PRODUCT INFORMATION

2.1 Applicant Information

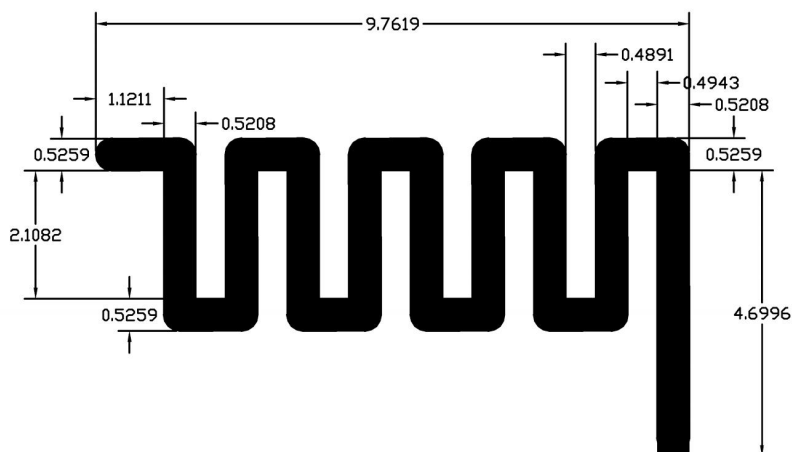
Applicant	Shenzhen Zhixu Technology Co., LTD
Address	1101, Building A, Guoren Building, Keji Zhongsan Road, Gaoxin Park, Nanshan District, Shenzhen City, China.

2.2 Manufacturer Information

Manufacturer	Shenzhen Zhixu Technology Co., LTD
Address	1101, Building A, Guoren Building, Keji Zhongsan Road, Gaoxin Park, Nanshan District, Shenzhen City, China.

2.3 General Description for Equipment under Test (EUT)

EUT Name	PCB Onboard Antenna
Model Name Under Test	ZXD1888
Antenna Type	PCB Antenna
Dimensions	11.8*5.4 mm



2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz
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3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	ANSI/IEEE Std 149-1979	IEEE Standard Test Procedures for Antennas

3.2 Test Verdict

Report Section	Description	Remark
ANNEX A.1	Gain and Efficiency	--
ANNEX B	Radiation Pattern	--

3.3 Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Item	Uncertainty
Gain	$\pm 1.92\text{dB}$

4 GENERAL TEST CONFIGURATIONS

4.1 Test Condition

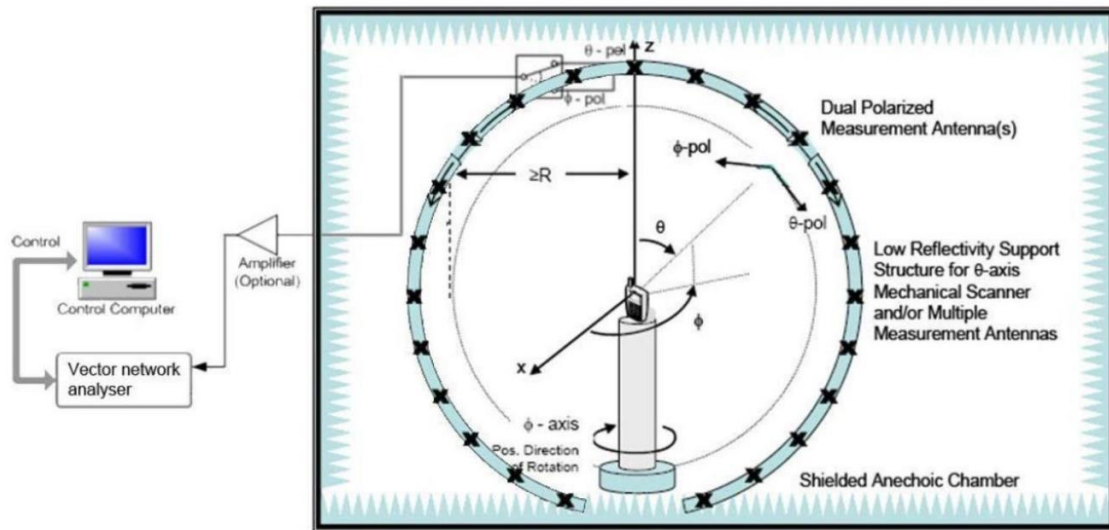
Environment Parameter	Selected Values During Tests			
	Ambient Pressure(KPa)	Temperature(°C)	Voltage	Relative Humidity (%)
Normal Temperature, Normal Voltage (NTNV)	101	25	N/A	50

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
SG24 Multi-probe Antenna Measurement System	SATIMO	SG24-L	1101855- 0001	2021.11.12	2024.11.11
Vector Network Analyzer	Agilent	E5071B	MY42404001	2022.04.02	2023.04.01
Description	Manufacturer	Name		Version	
Test Software	MVG	SPM		V 1.8	

4.3 Test Setup

4.3.1 Antenna gain, efficiency and radiation pattern test setup



ANNEX A TEST RESULTS

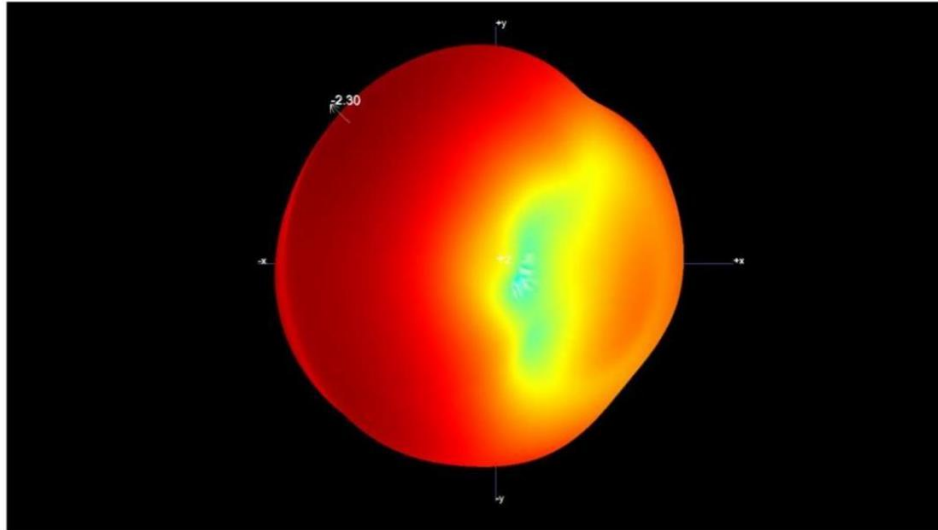
A.1 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency (%)
2400MHz	-2.30	20
2410MHz	-2.40	20
2420MHz	-2.49	21
2430MHz	-2.57	20
2440MHz	-2.69	19
2450MHz	-2.86	19
2460MHz	-3.06	19
2470MHz	-3.23	19
2480MHz	-3.29	18
2490MHz	-3.22	18
2500MHz	-3.58	18

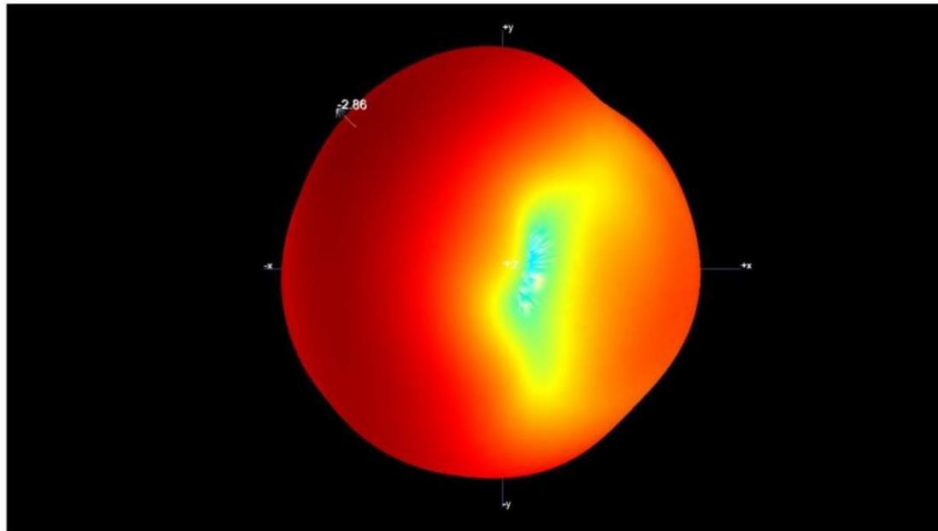
ANNEX B RADIATION PATTERN

B.1 3D Pattern

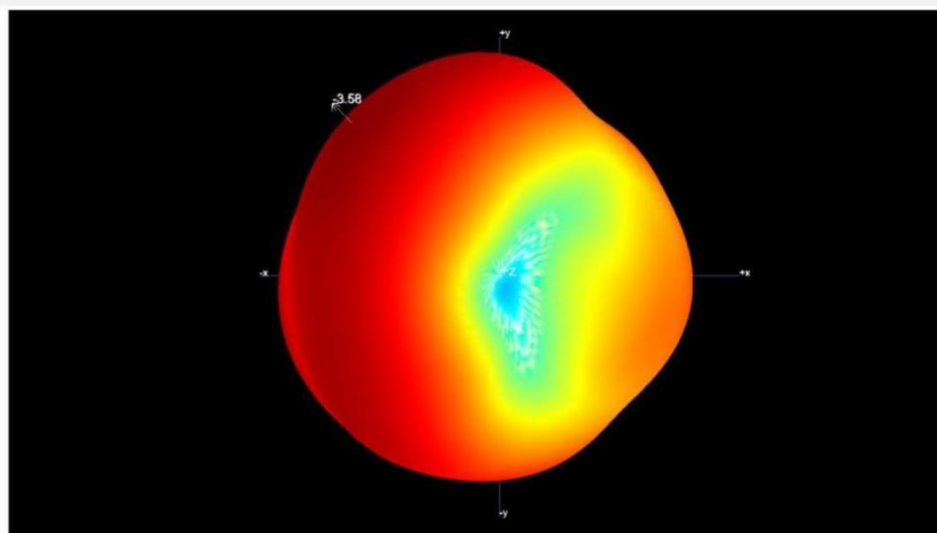
B1.1 3D Pattern for 2400MHz



B1.2 3D Pattern for 2450MHz

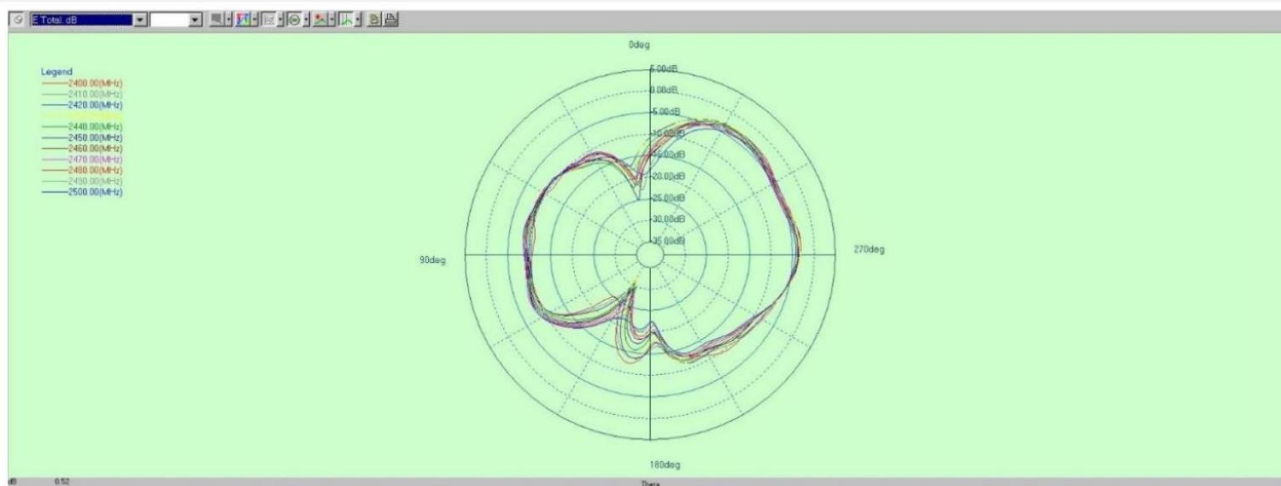


B1.3 3D Pattern for 2500MHz

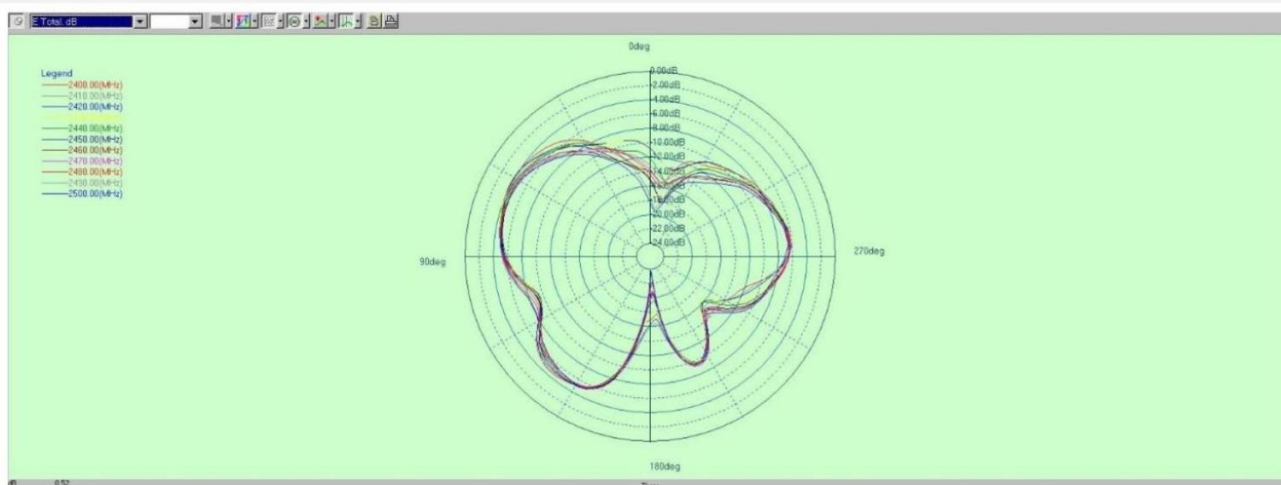


B.2 1D Radiation Pattern

B2.1 PHI=0



B2.2 PHI=90



B2.3 THETA=90

