

1 SUMMARY OF TEST RESULTS

1.1 Test Standards

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Standard Test Procedures for Antennas

1.2 Test Verdict

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

1.3 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
VSWR(S11)	± 0.61
Gain	$\pm 1.92\text{dB}$

2 GENERAL TEST CONFIGURATIONS

2.1 Test Condition

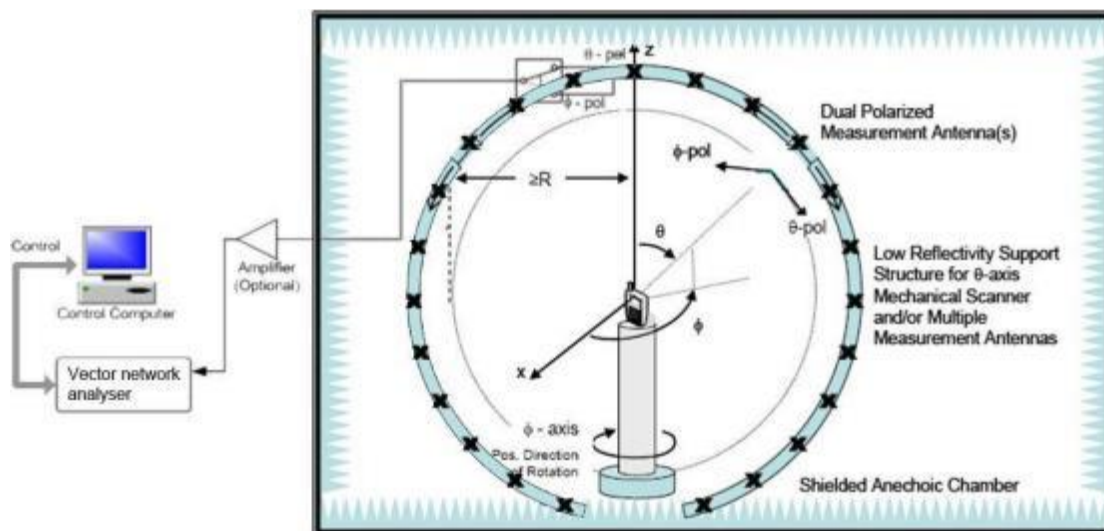
Environment Parameter	Selected Values During Tests			
	Ambient Pressure (KPa)	Temperature (°C)	Voltage	Relative Humidity (%)
Normal Temperature, Normal Voltage (NTNV)	101	21.4	N/A	40

2.2 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	2024.01.16	2025.01.15
Description	Manufacturer	Name		Version	
Test Software	MVG	SPM		V 1.8	

2.3 Test Setup

4.3.1 Antenna gain, efficiency and radiation pattern test setup



2.4 Test Frequencies

Test Frequencies	2402MHz, 2440MHz, 2480MHz
------------------	---------------------------

ANNEX A TEST RESULTS

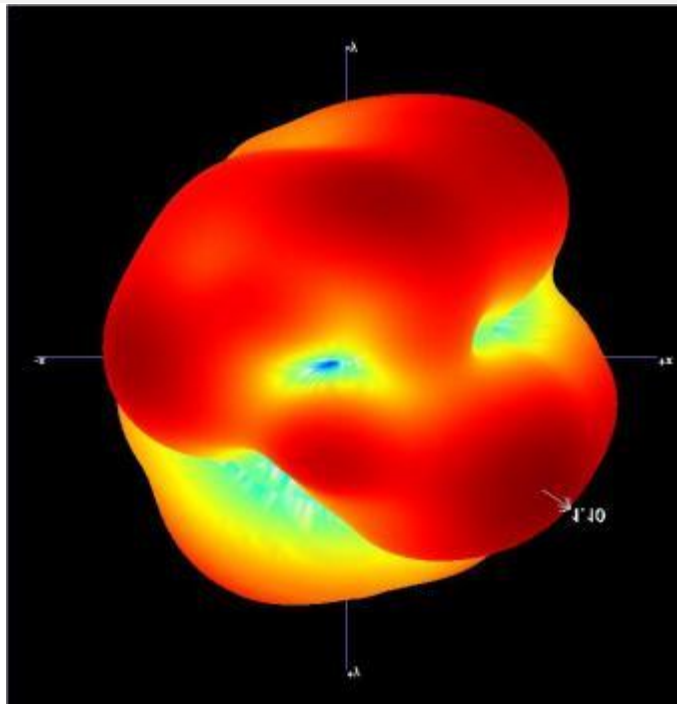
A.1 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency (%)
2402MHz	1.10	34
2440MHz	1.24	35
2480MHz	1.74	35

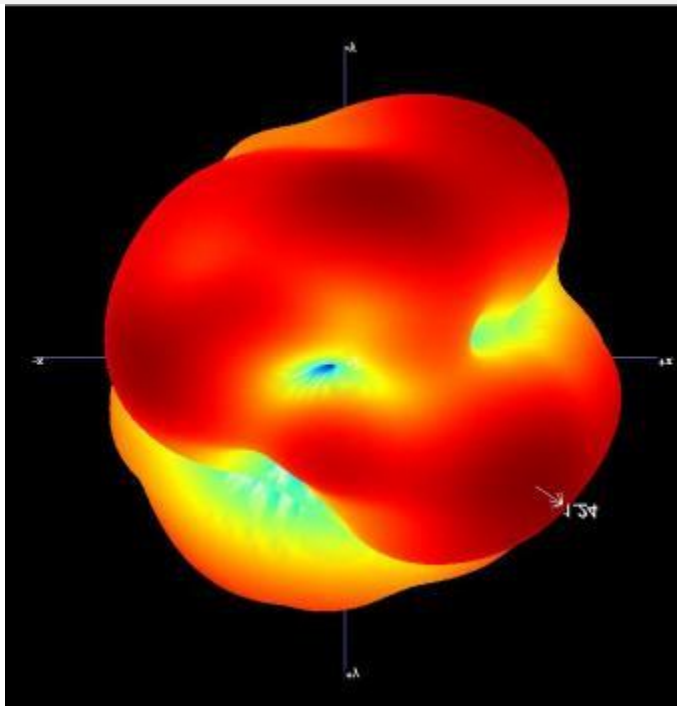
ANNEX B RADIATION PATTERN

B.1 3D Pattern

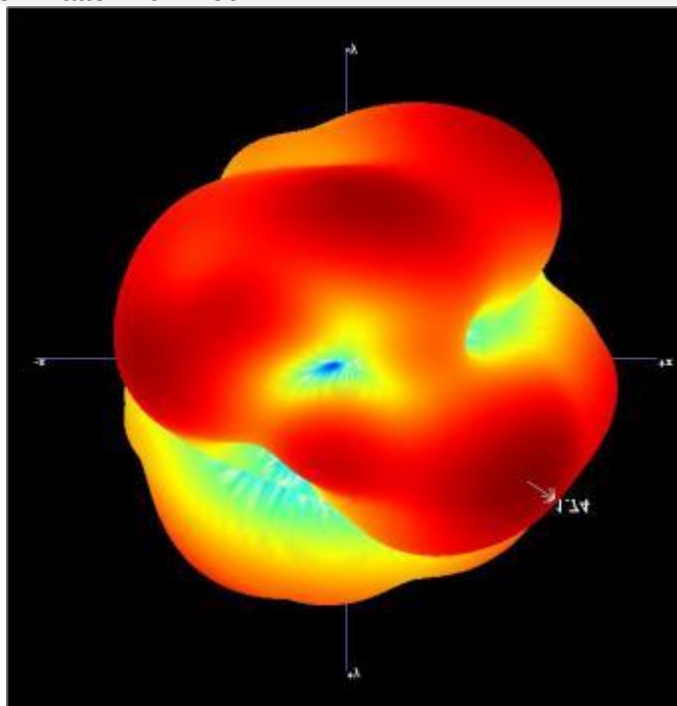
B1.1 3D Pattern for 2402MHz



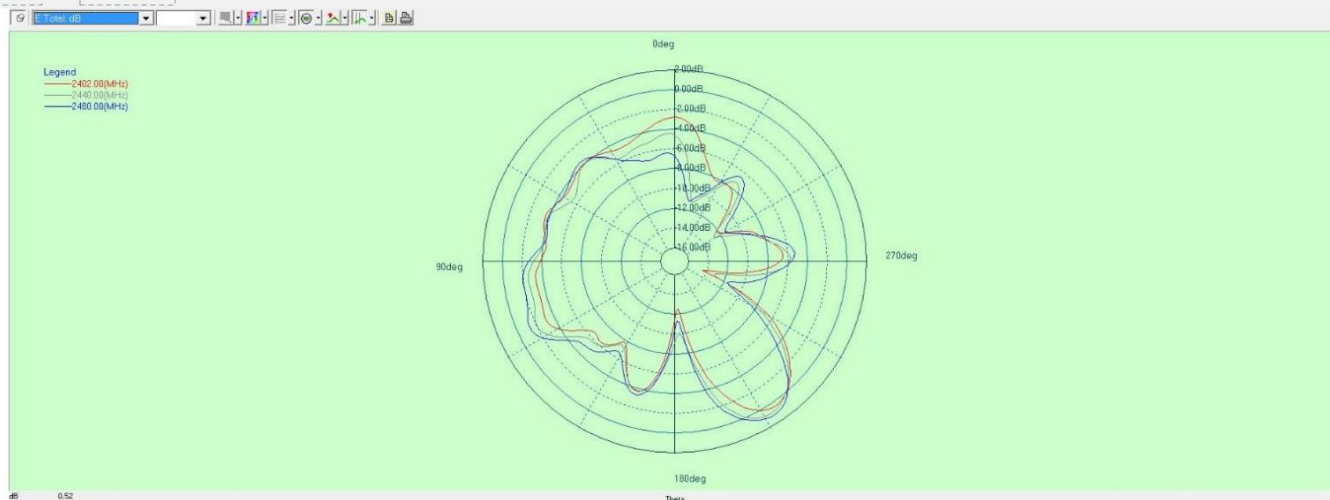
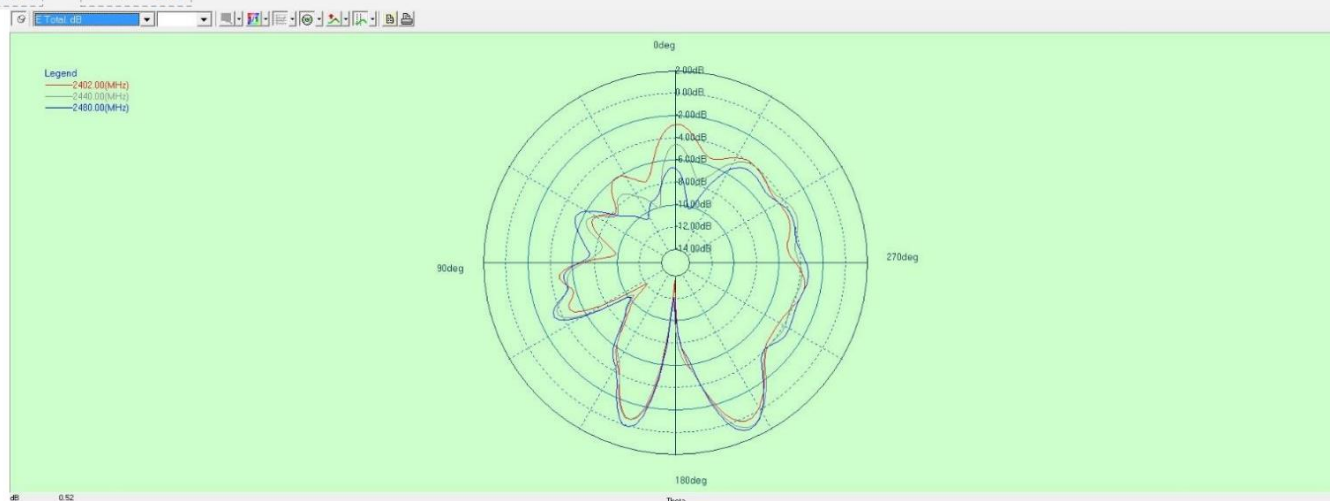
B1.2 3D Pattern for 2440MHz



B1.3 3D Pattern for 2480MHz



B.2 1D Radiation Pattern

B2.1 PHI=0**B2.2** PHI=90**B2.3** THETA=90

ANNEX EUT PHOTO

