



TEST REPORT

APPLICANT : Feit Electric Company, Inc
PRODUCT NAME : Lighting Connectivity Module
MODEL NAME : LCM4
TRADE NAME : LIFX
BRAND NAME : LIFX
STANDARD(S) : IEEE Std 149-2021
RECEIPT DATE : 2023-06-02
TEST DATE : 2023-06-05
ISSUE DATE : 2023-07-12



Edited by:

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Change History		
Version	Date	Reason for change
1.0	2023-07-12	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Feit Electric Company, Inc
Applicant Address:	4901 Gregg Road, Pico Rivera, CA, 90660, USA
Manufacturer:	Feit Electric Company, Inc
Manufacturer Address:	4901 Gregg Road, Pico Rivera, CA, 90660, USA

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	2400MHz-2500MHz
IMEI	N/A
Product HW Version	01A
Product SW Version	v1.0
Sample No.	1#

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

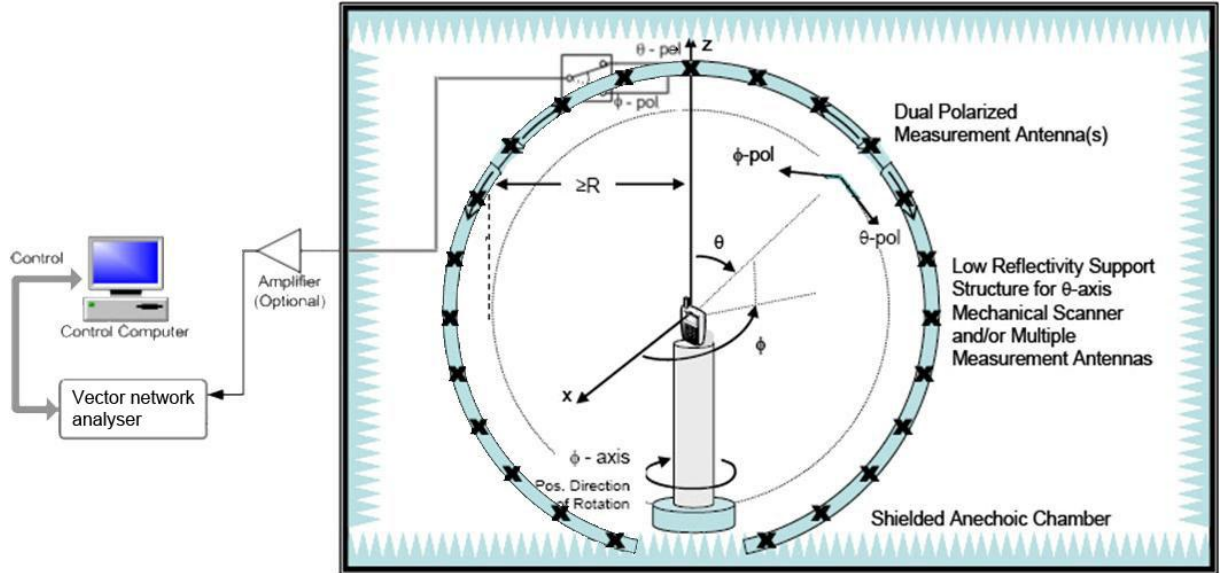


2.4. Test Results lists

2.4.1. Gain

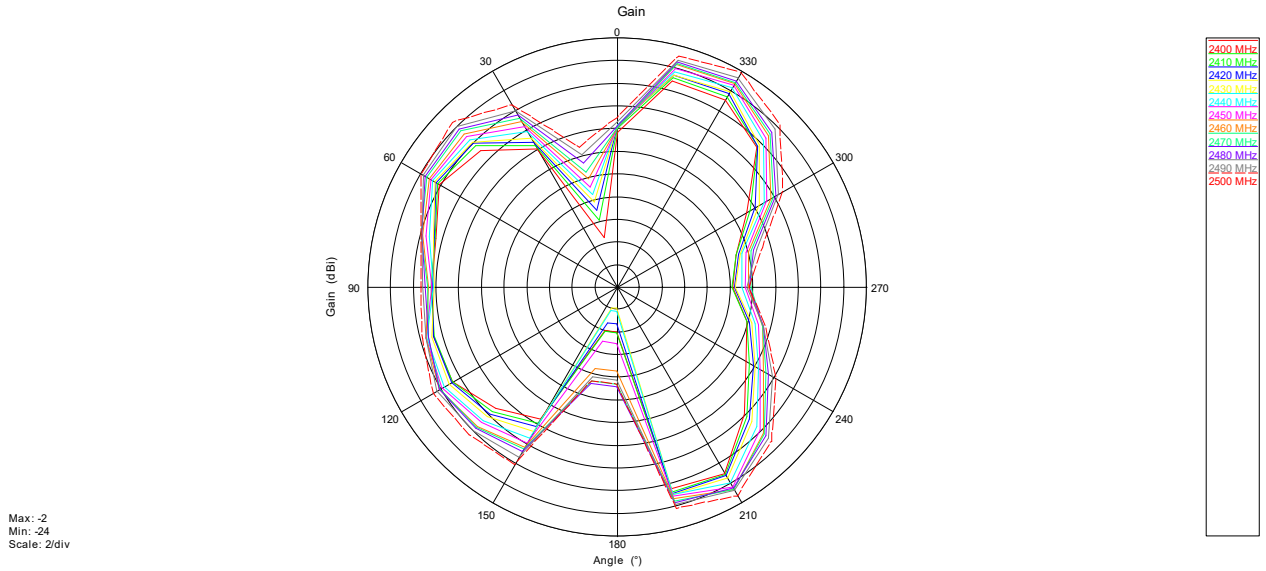
Frequency (MHz)	Gain(dBi)
2400	-3.35
2410	-2.95
2420	-2.63
2430	-2.38
2440	-2.10
2450	-2.00
2460	-1.82
2470	-1.65
2480	-1.36
2490	-0.95
2500	-0.41

Annex A Test Setup Photos

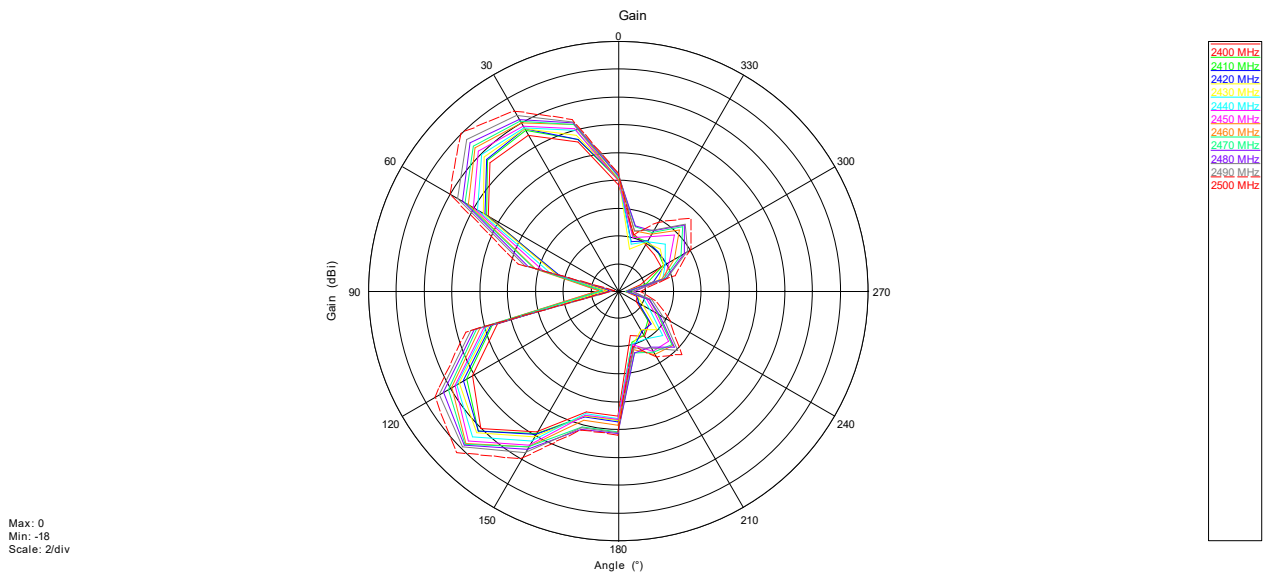


Annex B Figures

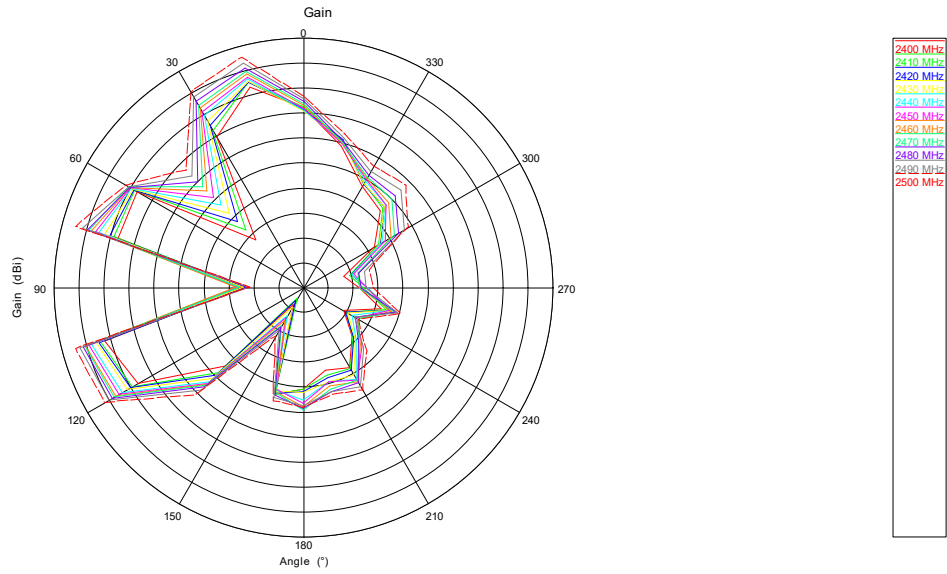
1. 2D Radiation Pattern



Phi=0°

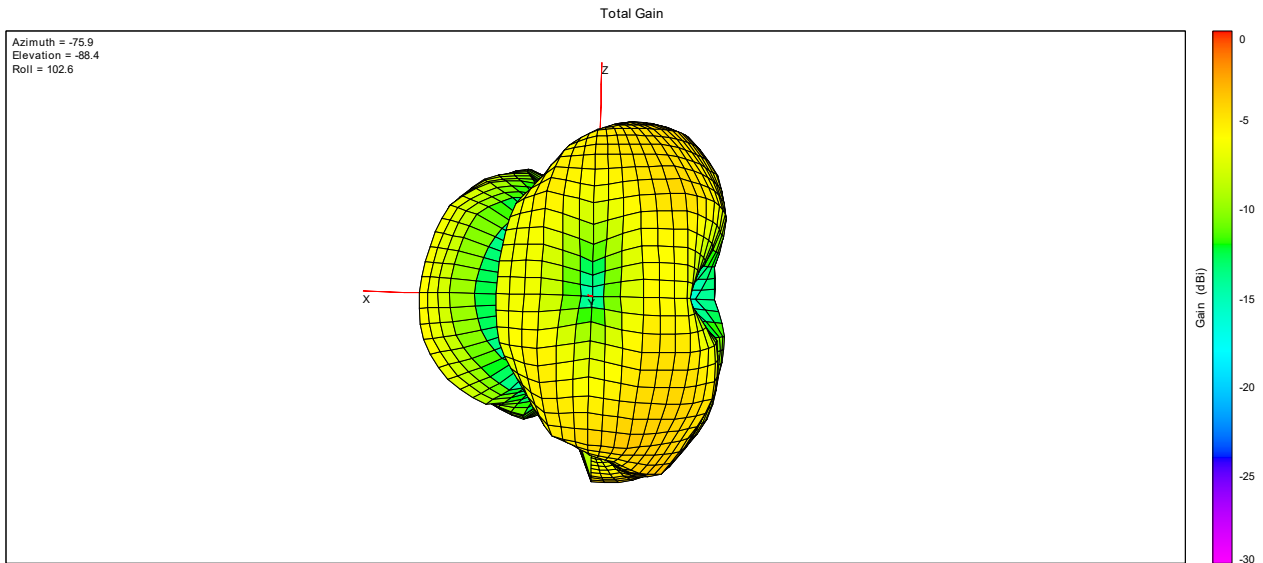


Phi=90°

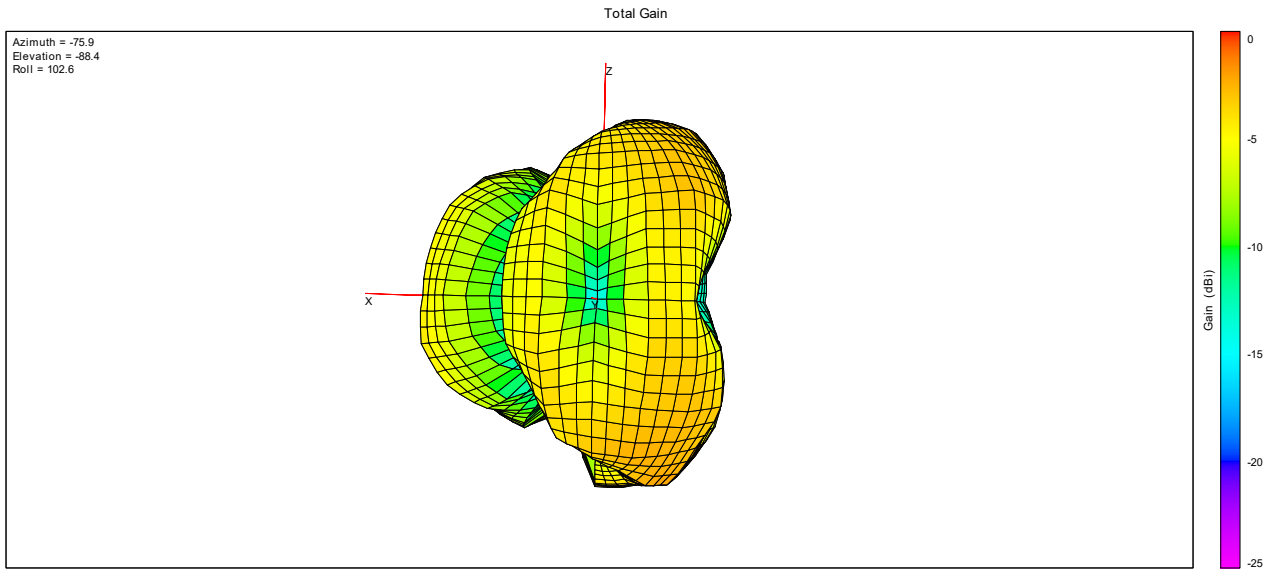


Theta=90°

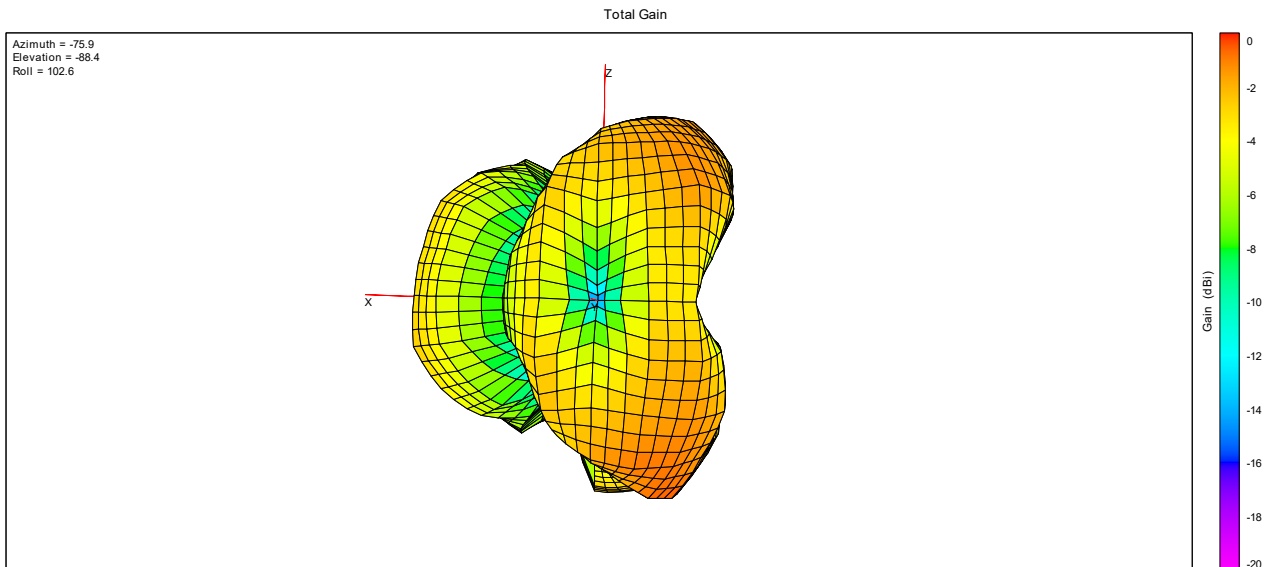
2. 3D Radiation Pattern



2400MHz



2450MHz



2500MHz



Annex C General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2022.07.04	2023.07.03
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

Note:The Main report is end here and the other Annex D will be submitted separately.

————— END OF MIAN REPORT —————