

TEST REPORT

APPLICANT: Lierda Science & Technology Group Co., Ltd.

PRODUCT NAME : EB55 BLE Module

MODEL NAME : Main model:L-BTMEB55-G0NP4

Series models:L-BTMEB55-04594-01

TRADE NAME : Lierda

BRAND NAME: Lierda

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2023-10-09

TEST DATE : 2023-10-11

ISSUE DATE : 2023-11-01



Edited by:

Fang Jinshan (Rapporteur)

Con Grande

Approved by:

Chi Shide(Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd.,the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.



Tel: 86-755-36698555

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn





DIRECTORY

1. Technical Information
1.1. Applicant and Manufacturer Information
1.2. Equipment Under Test (EUT) Description 3
2. Test Results
2.1. Applied Reference Documents
2.2. Test Conditions
2.3. Measurement Uncertainty ····································
2.4. Test Results lists 5
Annex A Test Setup Photos
Annex B Figures7
1. 2D Radiation Pattern
2. 3D Radiation Pattern ······
Annex C General Information10
1.1 Identification of the Responsible Testing Laboratory 10
1.2 Identification of the Responsible Testing Location
1.3 Test Equipments Utilized10
Annex D EUT Photos

Change History			
Version	Date	Reason for change	
1.0	2023-11-01	First edition	





1.Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

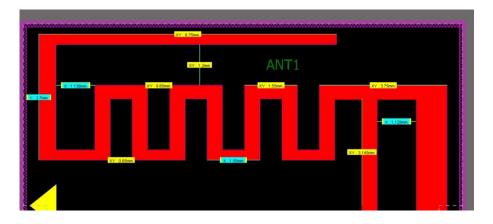
Applicant:	Lierda Science & Technology Group Co., Ltd.		
Applicant Address:	Room 301,Building No.1,Lierda IoT Park, No.1326, West Wenyi		
	Road, Hangzhou, Zhejiang Prov.,China		
Manufacturer:	Lierda Science & Technology Group Co., Ltd.		
Manufacturer Address:	Room 301,Building No.1,Lierda IoT Park, No.1326, West Wenyi		
	Road, Hangzhou, Zhejiang Prov.,China		

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A		
Test frequency band	2400MHz-2500MHz		
IMEI	N/A		
Product HW Version	V01		
Product SW Version	Rev01		
Sample No.	2#		

Note:Hereby, we, <Lierda Science & Technology Group Co.,Ltd>, declare that for model number: L-BTMEB55-G0NP4, L-BTMEB55-04594-01 have the same hardware and software,only different in model name, the main test model name is L-BTMEB55-G0NP4, all RF parameters remain the same.

Dimension:







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

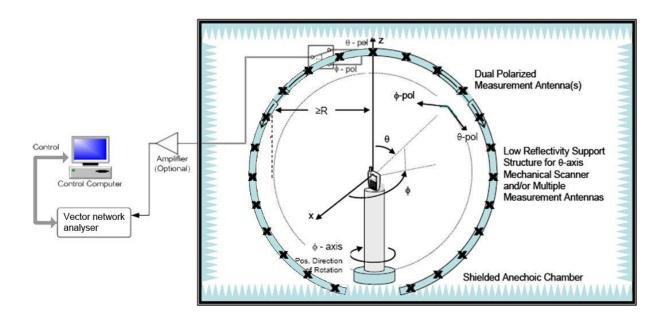
2.4.1.Gain

Frequency	Gain(dBi)
2400MHz	1.58
2410MHz	2.33
2420MHz	2.44
2430MHz	1.74
2440MHz	1.68
2450MHz	1.51
2460MHz	1.45
2470MHz	1.69
2480MHz	1.91
2490MHz	2.47
2500MHz	2.96





Annex A Test Setup Photos



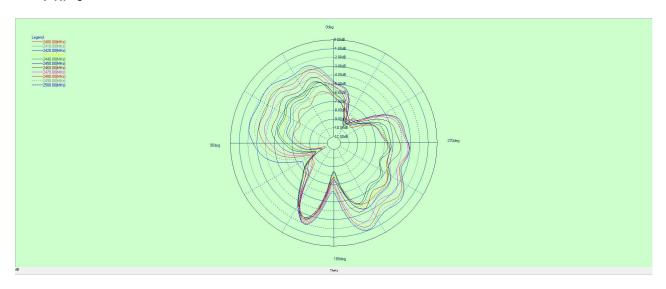




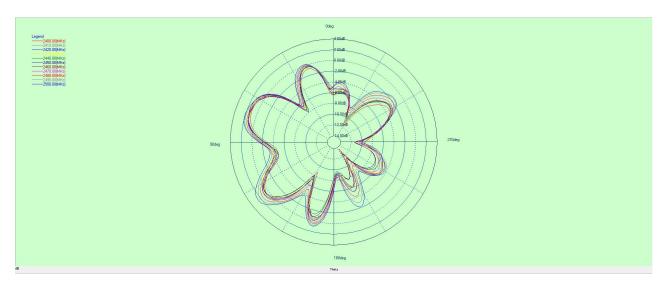
Annex B Figures

1. 2D Radiation Pattern

Phi=0°

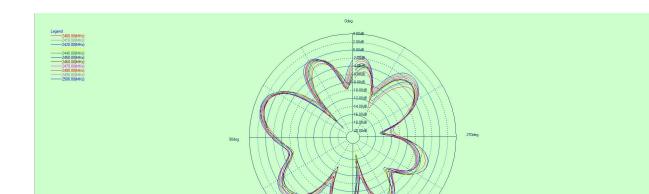


Phi=90°

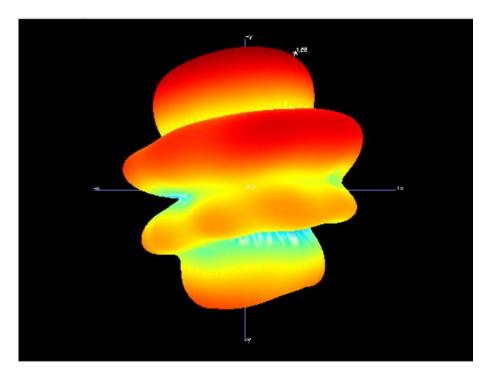








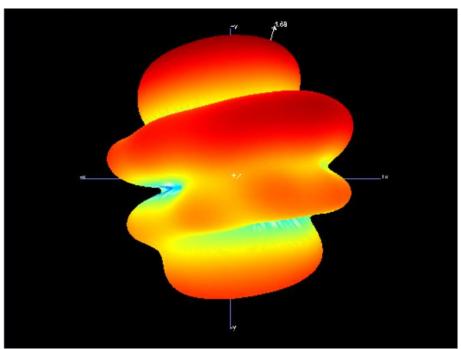
2. 3D Radiation Pattern



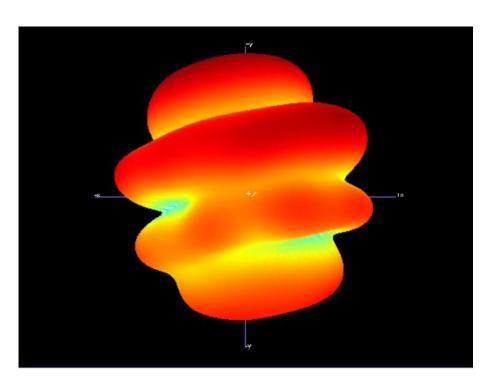
2400MHz







2440MHz



2480MHz





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.	Equipment Name	Serial NO.	Туре	Manufa cturer	Cal.Date	Cal.Due Date
1	Vector Network Analyzer	MY46214666	E5071C	Agilent	2023.02.09	2024.02.08
2	OTA Chamber	N/A	SG24	Satimo	2021.01.12	2024.01.11
3	SatEnv	N/A	2.0.1.5 build 12	Satimo	N/A	N/A
4	SPM	N/A	1.11	Satimo	N/A	N/A

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



