

TEST REPORT

APPLICANT: Linkplay Technology Inc.

PRODUCT NAME: loT Module

MODEL NAME : S21

TRADE NAME : Linkplay

BRAND NAME: Linkplay

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2023-05-16

TEST DATE : 2023-05-16

ISSUE DATE : 2023-06-05

Edited by:

Fang Jinshan(Rapporteur)

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 Http://www.morlab.cn Fax: 86-755-36698525
E-mail: service@morlab.cn





DIRECTORY

1	lechnical Information ····································
	Applicant and Manufacturer Information3
1.2.	Equipment Under Test (EUT) Description
2. 7	Test Results
2.1.	Applied Reference Documents
2.2.	Test Conditions
2.3.	Measurement Uncertainty
2.4.	Test Results lists 5
Ann	ex A Test Setup Photos6
Ann	ex B Figures ·······
1. 2	2D Radiation Pattern···································
2. 3	BD Radiation Pattern······
3. \	VSWR10
Ann	ex C EUT Photos11
Ann	ex D General Information14
1.1	Identification of the Responsible Testing Laboratory 14
1.2	Identification of the Responsible Testing Location 14
1.3	Test Equipments Utilized14

Change History			
Version Date Reason for change			
1.0	2023-06-05	First edition	



1.Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Linkplay Technology Inc.		
Applicant Address:	8000 Jarvis Avenue Suite #130, Newark, CA 94560		
Manufacturer:	Linkplay Technology Inc.		
Manufacturer Address: 8F-8036, Qianren Building, No.7, Yingcui Road, Jiangning Dist			
	Nanjing, China		

1.2. Equipment Under Test (EUT) Description

FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District,

ShenZhen , GuangDong Province, P. R. China

Wireless Type	N/A
Frequency	2400MHz-2500MHz
IMEI	N/A
Product HW Version	V02
Product SW Version	v4.2-beta1-328-g97688dc2-dirty
Sample No.	16#

Note: The sample photos shall be provided separately in Annex C according to customer requirements.



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

ShenZhen , GuangDong Province, P. R. China

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.



REPORT No.: SZ23050028E10



2.4. Test Results lists

2.4.1.Gain

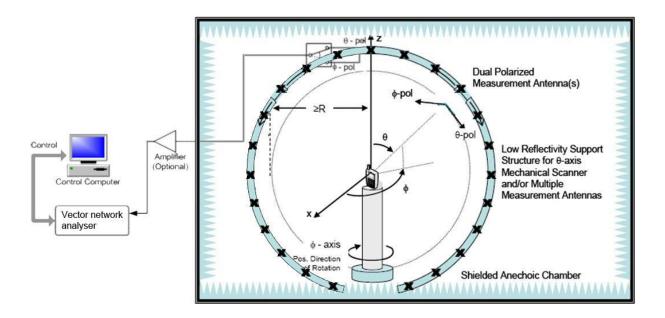
Frequency (MHz)	Gain(dBi)
2400	2.46
2410	2.50
2420	2.47
2430	2.51
2440	2.64
2450	2.54
2460	2.38
2470	2.14
2480	2.05
2490	2.09
2500	2.29

2.4.2.VSWR

Frequency	VSWR
2400MHz	1.88
2450MHz	1.70
2500MHz	2.17



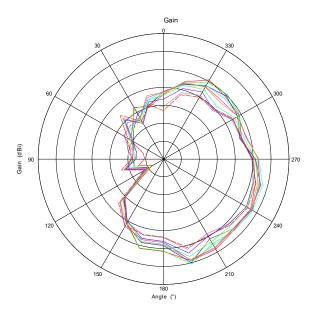
Annex A Test Setup Photos





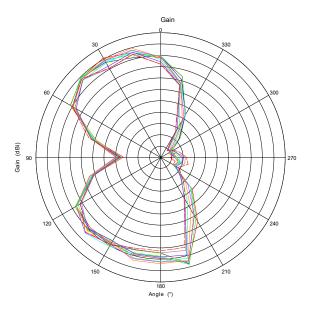
Annex B Figures

1. 2D Radiation Pattern



Max: 2 Min: -5 Scale: 1/div

Phi=0°

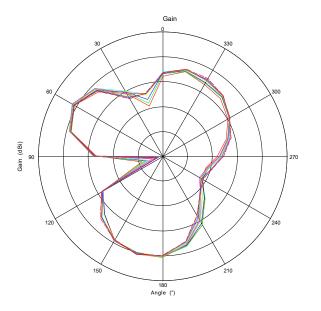


Max: 1 Min: -10 Scale: 1/div

Phi=90°





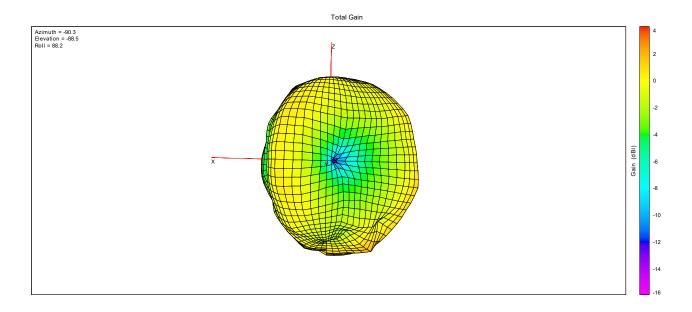


2400 MHz 2410 MHz 2420 MHz 2430 MHz

Max: 5 Min: -20 Scale: 5/div

Theta=90°

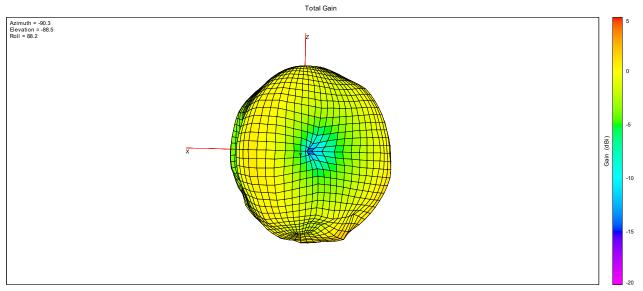
2. 3D Radiation Pattern



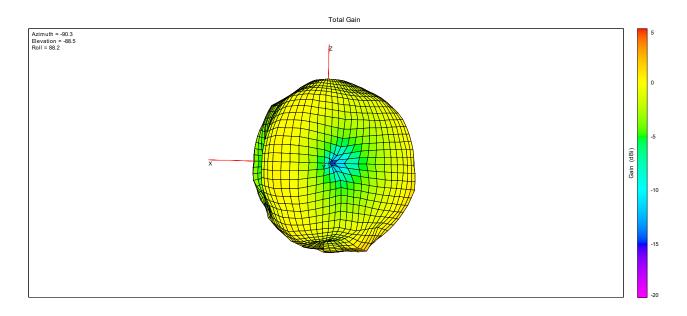
2400MHz







2450MHz

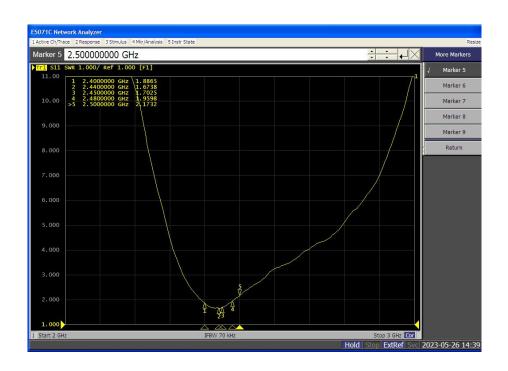


2500MHz





3. VSWR





Annex D 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.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	Network	MY46110140	E5071C	Agilent	2022.07.04	2023.07.03
	Analyzer			, ig		
2	OTA	TJ2235-Q1793	AMS-8923	ETS	2022.11.30	2025.11.29
	Chamber		-150	E13	2022.11.30	2025.11.29
			EMQuest			
3	Antenna		EMQ-100			
	Measurement	1685	V 1.13	ETS	N/A	N/A
	System		Build			
			21267			

	END OF REPORT	
--	---------------	--

