RF MEASUREMENT REPORT

FCC ID:	2ATTC-P1
Applicant:	Shenzhen Lefeet Innovation Technology Co., Ltd
Product:	REMOTE CONTROLLER
Model No.:	P1
Brand Name:	LEFEET
FCC Rule Part(s):	FCC 47 CFR Part 2.1093
Result:	Complies
Received Date:	2024-06-21
Test Date:	2024-07-31

Reviewed By: Denise Zhou

Approved By: Robin Wu

Revision History

Report No.	Version	Description	Issue Date	Note
2407RSU006-U4	V01	Initial Report	2024-08-07	Invalid
2407RSU006-U4	V02	Add test equipment information	2024-08-13	Valid

CONTENTS

1. General Information

1.1. Applicant

Shenzhen Lefeet Innovation Technology Co., Ltd
Area A, 2F, Bldg A, Junxiangda Office Bldg, West Zhongshanyuan Rd, Nanlian Community, Nanshan Dist., Shenzhen, Guangdong, CN 518000

1.2. Manufacturer

Shenzhen Lefeet Innovation Technology Co., Ltd
Area A, 2F, Bldg A, Junxiangda Office Bldg, West Zhongshanyuan Rd, Nanlian Community, Nanshan Dist., Shenzhen, Guangdong, CN 518000

1.3. Testing Facility

☒	**Test Site – MRT Suzhou Laboratory**				
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China **Laboratory Location (Suzhou - SIP)** 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China				
	Laboratory Accreditations				
	A2LA: 3628.01		CNAS: L10551		
	FCC: CN1166		ISED: CN0001		
	VCCI:	☐R-20025	☐G-20034	☐C-20020	☐T-20020
		☐R-20141	☐G-20134	☐C-20103	☐T-20104
☐	**Test Site – MRT Shenzhen Laboratory**				
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China				
	Laboratory Accreditations				
	A2LA: 3628.02		CNAS: L10551		
	FCC: CN1284		ISED: CN0105		
☐	**Test Site – MRT Taiwan Laboratory**				
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)				
	Laboratory Accreditations				
	TAF: 3261				
	FCC: 291082, TW3261		ISED: TW3261		

1.4. Product Information

Product Name	REMOTE CONTROLLER
Model No.	P1
EUT Identification No.	20240621Sample#01
Brand Name	LEFEET
Wireless Specification	125kHz
Operating Temperature	0~40 °C
EUT Type	Portable Device
Exposure Category	General Population/Uncontrolled Exposure
Accessory	
Adapter	Model: S100P Input: 100-240V ~50/60Hz 2.5A Max Total Output Power: 100W Max
Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

Operating Frequency	125kHz
Modulation	ASK

1.6. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 2.1093
- FCC Part 1.1310
- KDB 447498 D04v01
- KDB 680106 D01v04

2. Measuring Instrument

Instrument	Manufacturer	Model No.	Serial No.	Cali. Interval	Cali. Due Date	Test Site
Near-field Electric and Magnetic Field Sensor System	SPEAG	MAGPy-8H3D+ ED3	3080	1 year	2024/11/14	WZ-SR5

3. Measurement Uncertainty

Magnetic Field Emissions (3kHz~10MHz)
±35.7% (measure at probe tip) ±13.9% (measure at probe center)
Electric Field Emissions (3kHz~10MHz)
±24.4%

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4. Test Result

4.1. Test Limits

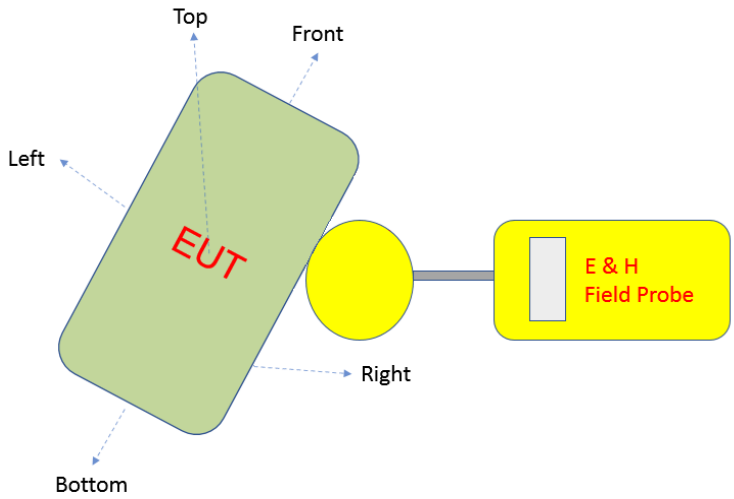
According to KDB 680106 D01v04, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

Furthermore, consistent with FCC's equipment authorization RF exposure guidance, any device (both portable and mobile) operating at frequencies below 100 kHz is considered compliant for the purpose of equipment authorization when the external (unperturbed) temporal peak field strengths do not exceed the following reference levels: 83 V/m for the electric field strength (E) and 90 A/m for the magnetic field strength (H).

4.2. Test Mode

Test Mode
Mode 1: Transmit at 125kHz

4.3. Test Setup



4.4. Test Environment Condition

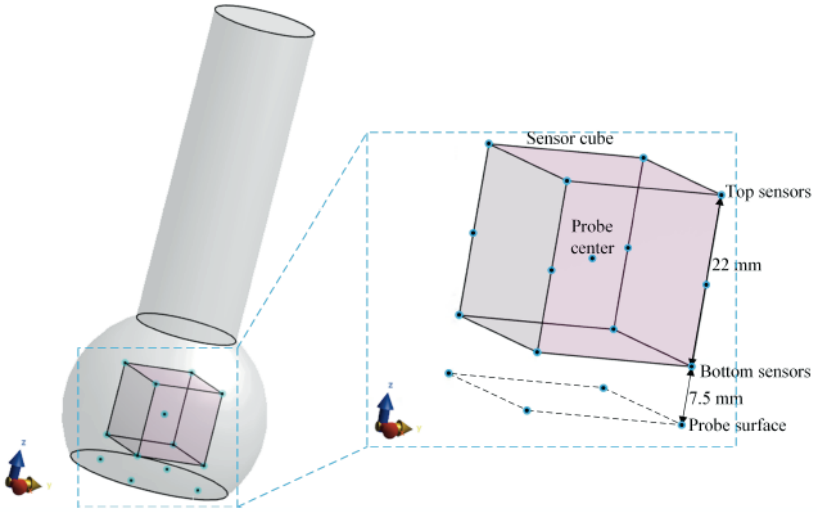
Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

4.5. Test Equipment Information

MAGPy-8H3D+ED3	
Diameter	60mm
8 Isotropic H-field Sensors	Concentric loops of 1cm2 arranged at the corner of a cube of 22mm side length
1 Isotropic E-field Sensor	Orthogonal dipole/monopole (armlength:50mm)
Measurement Center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DASV2)
Probe Specification	
Frequency Range	3kHz ~ 10MHz
Probe Sensitivity	E-filed: 0.08-2000 V/m H-filed: 0.1-3200 A/m
Probe Level Response	E-filed: ±1dB H-field: ±1dB
Probe Linear Range	E-filed: 0.08-2000 V/m H-filed: 0.1-3200 A/m
linearity Error	E-filed: ±0.3dB H-field: ±0.3dB
Antenna Size	E-filed: 50mm H-field: 38.1mm
Isotropy	E-filed: ±0.8dB H-field: ±0.6dB

To measure at 0cm, the probe tip mode is used. The total H-field at the tip-surface $H_{tip-surface}$ can be extrapolated using the total H-field measured at the top and bottom sensors, H_{top} and H_{bottom}, as well as the normalized H-field gradient G_n. The field extrapolation formula is a polynomial function of G_n (Δd=18.5 mm).

$$H_{tip-surface} = \frac{H_{bottom} + H_{top}}{2} \sum_{i=0}^{7} ci(G_n \Delta \mathrm{d})^i$$



4.6. Test Result

Product	REMOTE CONTROLLER
Test Item	RF Exposure Evaluation - Electric Field Emissions

Test Position	Test Distance (mm)	Electric Field Value (V/m)	Magnetic Field Value (A/m)	E/H Ratio
Front	18.5	4.04	0.36	11.22
Rear	18.5	14.10	0.45	31.33
Left	18.5	2.71	0.36	7.53
Right	18.5	8.78	0.38	23.11
Top	18.5	1.77	0.12	14.75
Bottom	18.5	6.11	0.24	25.46

Notes:

1. Electric and Magnetic fields are measured at probe center.
2. E/H ratio less than 1/10 of the 377-ohm free space wave impedance, only H-field measurements are sufficient for demonstrating MPE limit compliance.

Magnetic Field Emissions (measure at probe tip)				
Test Position	Test Distance (mm)	Measure Value (A/m)	Limit (A/m)	Result
Front	0	0.50	1.63	Pass
Rear	0	0.55	1.63	Pass
Left	0	0.72	1.63	Pass
Right	0	0.55	1.63	Pass
Top	0	0.36	1.63	Pass
Bottom	0	0.80	1.63	Pass

Appendix A – Test Setup Photograph

Please refer to document “2407RSU006-UT”.

Appendix B – EUT Photograph

Please refer to document “2407RSU006-UE”.

The End