ACCREDITED
CERT #5473.03

Test Report No.:
FCCSZ2025-0032-H

RF Test Report

FCC ID	:	**2BEAP-HK01**
NAME OF SAMPLE	:	**HK01 Smart Lock**
APPLICANT	:	**Shenzhen Lingdu Auto Electronics Co., Ltd.**
CLASSIFICATION OF TEST	:	**N/A**

CVC Testing Technology (Shenzhen) Co., Ltd.

Applicant	**Name: Dongguan Lingdu Electronic Technology Co.,Ltd.** **Address:No.1, Longcheng Street, Qingxi Town, Dongguan City, Guangdong Province, China**
Manufacturer	**Name: Dongguan Lingdu Electronic Technology Co.,Ltd.** **Address:No.1, Longcheng Street, Qingxi Town, Dongguan City, Guangdong Province, China**
Equipment Under Test	**Product Name: HK01 Smart Lock** **Model Name: HK01** **Additional Model:HK01W，L600，L800，AH1，AH1 Pro，HK02，HK02 Pro，HK01 Ultra，HK02 Ultra** **Brand Name: LNDU** **Serial NO.: N/A** **Sample NO.: 4-1**

Date of Receipt.	**Apr.17, 2025**	Date of Testing	**Apr.18, 2025 ~Apr. 20, 2025**

Test Specification	**Test Result**
FCC Part 2 (Section 2.1091) **KDB 447498 D0401** **IEEE C95.3**	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. seal of CVC **Issue Date: Apr.20, 2025**

Compiled by:	Reviewed by:	Approved by:
Liang Jiatong	Mo Xianbiao	Dong Sanbi
Name Signature	Name Signature	Name Signature

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0032-H	Original release	Apr.20,2025

1. GERTIFICATION

PRODUCT	HK01 Smart Lock
BRAND	LNDU
TEST MODEL	HK01
ADDITIONAL MODEL	HK01W，L600，L800，AH1，AH1 Pro，HK02，HK02 Pro，HK01 Ultra，HK02 Ultra
POWER SUPPLY	DC 6 V from Li-ion battery
STANDARDS	FCC Part 2 (Section 2.1091)
	KDB 447498 D04v01
	IEEE C95.3

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to the report (Report NO.: FCCSZ2025-0032-EUT).
4. The prototypes of other models have the same appearance and function as the main model, only the name is different.

2. LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (FCC)

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF SOURCE FREQUENCY (MHZ)	THRESHOLD ERP(W)
0.3 -1.34	$1{,}920\ R^2$
1.34 - 30	$3{,}450\ R^2F^2$
30 -300	$3.83\ R^2$
300-1500	$0.0128\ R^2F$
1500-100,000	$19.2R^2$

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

4. MAXIMUM CONDUCTED PEAK POWER

The measured conducted Peak Power

Mode	Peak Power (dBm)
BT-LE	4.90
BT-LE*	6.50

Remark:

1. This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.
2. *The EUT contains a certified module (FCC ID: 2ACCRMC60), according to the MPE reports of FCC ID: 2ACCRMC60, Date of Grant: 09/09/2021.

The tuned conducted Peak Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE	2402MHz~2480MHz	5	±1	4	6
BT-LE*	2402MHz~2480MHz	6.5	±1	5.5	7.5

Remark:

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2. *The EUT contains a certified module (FCC ID: 2ACCRMC60), according to the MPE reports of FCC ID: 2ACCRMC60, Date of Grant: 09/09/2021.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Mode	Frequency (MHz)	Peak Gain (dBi)
BT-LE	2402 ~ 2480	1.83
BT-LE*	2402 ~ 2480	1.55

Remark:

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2. *The EUT contains a certified module (FCC ID: 2ACCRMC60), according to the MPE reports of FCC ID: 2ACCRMC60, Date of Grant: 09/09/2021.

6. CALCULATION MAXIMUM PERMISSIBLE EXPOSURE

MAXIMUM PERMISSIBLE EXPOSURE (FCC)

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	Threshold ERP(W)	Ratio
BT-LE	6	1.83	20	7.83	5.68	0.0037	3.06	0.001
BT-LE*	7.5	1.55	20	9.05	6.90	0.0049	3.06	0.0016
Sum of Ratios=0.001+0.0016=0.0026								0.0026

Remark:

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2. *The EUT contains a certified module (FCC ID: 2ACCRMC60), according to the MPE reports of FCC ID: 2ACCRMC60, Date of Grant: 09/09/2021.

Note1: ERP=EIRP-2.15dB

Conclusion:

BT-LE and BT-LE* can transmit simultaneously, the formula of calculated the MPE is

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}\le 1$$

Max：0.001 + 0.0016= 0.0026< 1,which is less than the “1” limit.

------ End of the Report ------

Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days.

(6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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