

FCC TEST REPORT

Report No.....: AB26060052FW03

FCC ID.....: **2BWRC-I3C18**

Applicant.....: Newcapec Electronics Co., Ltd.

Address.....: NO. 18 Yingchun Street, Zhengzhou High & New Technology Industrial Development, Zhengzhou, China

Manufacturer.....: Newcapec Electronics Co., Ltd.

Address.....: NO. 18 Yingchun Street, Zhengzhou High & New Technology Industrial Development, Zhengzhou, China

Product Name.....: Smart door lock

Trade Mark.....: /

Test Model.....: I3

Additional Model(s).....: I3XX, I3XXXXXX, I3XXXXXX, I3XXXXX-X-XXXX (x represents numbers 0-9, letters A-Z, and letters a-z)

Standard.....: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Date of Receipt.....: 2026.06.05

Date of Issue.....: 2026.06.25

Test Result.....: Pass

Compiled by: Huaijie Li
(Printed Name + Signature)

Huaijie Li

Supervised by: David Huang
(Printed Name + Signature)

David Huang

Approved by: Jay Liu
(Printed Name + Signature)

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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FCC TEST REPORT

EUT.....	: Smart door lock
Test Model.....	: I3
Applicant.....	: Newcapec Electronics Co., Ltd.
Address.....	: NO. 18 Yingchun Street, Zhengzhou High & New Technology Industrial Development, Zhengzhou, China
Manufacturer.....	: Newcapec Electronics Co., Ltd.
Address.....	: NO. 18 Yingchun Street, Zhengzhou High & New Technology Industrial Development, Zhengzhou, China

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

REPORT VERSION

Version No.	Issue Date	Description
01	2026.06.25	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Smart door lock	
Trade Mark:	/	
Test Model:	I3	
Additional Model(s):	I3XX, I3XXXXX, I3XXXXXX, I3XXXXX-X-XXXX (x represents numbers 0-9, letters A-Z, and letters a-z)	
Model Difference:	All models are the same circuit and RF module, except the model name	
Hardware Version:	V0.6	
Software Version:	I315C1X_1C_101B	
Power Supply:	DC 5V/1A	
Battery	DC 1.5V*4	
EUT Supports Function: (Provided by the customer)	2.4GHz ISM Bands:	IEEE 802.11b/g/n
Test Sample(s) Number:	AB26060052-01 (Engineer Sample) AB26060052-02 (Normal Sample)	
Radio Specification Subject to this Report		
Radio Specification:	IEEE 802.11b/g/n	
Frequency Range:	2412MHz~2462MHz for IEEE 802.11b/g/n(HT20	
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)	
Channel Spacing:	5MHz	
Channel Number(s):	11 Channels for IEEE 802.11b/g/n(HT20)	
Antenna Type:	Internal Antenna	
Antenna Gain:	1.45dBi	
Radio Specification Subject to this Report		
Modulation Technology:	NFC	
Modulation Type:	ASK	
Operating Frequency:	13.56MHz	
Number of Channel:	1	
Antenna Type:	Internal antenna	
Antenna Gain:	0dBi(Max.)	

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +86 755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

Company Number: 33924

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW;

G = gain of antenna in linear scale, $\pi = 3.1416$;

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Evaluation Result

Mode	Total Power (dBm)	Antenna Gain	Max.EIRP (dBm)	Max.EIRP (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2.4G WIFI	12.91	1.45	14.360	27.290	0.00542913	1.0	PASS

Mode	Power (dBuV/m)	Power (dBm)	Power (mW)	Separation Distance (m)	Power density Value (mW/cm ²)	Limit (mW/cm ²)
NFC	59.44	-35.76	0.0002655	0.2	0.00000005	0.979

Results for transmit simultaneously

No.	Configurations	Maximum MPE Value mW/cm ²		Transmit simultaneously	Limits
1	2.4G WIFI+ NFC	0.00542913	0.00000005	0.00542918	0.979

At the transmit simultaneously calculation method is as follows:

Transmit simultaneously MPE = Σ of MPE ratios²

MPE ratios = Field strengths or power density / MPE limit at the test frequency

So a SAR test is not required

*****THE END*****