

FCC – RF Exposure Report

Report Number	:	60.790.24.078.01S01	Date of Issue	e: November 25, 2024		
Model/HVIN	:	Bluetooth Padlock				
Product Type	:	Click Padlock				
Applicant	:	Mobile Technologies Inc.				
Address	:	2345 NE Overlook Drive America.	e, Hillsboro (OR 97006 United States of		
Production Facility (1)	:	Shenzhen Maxway Techr	nology CO., L	TD		
Address	:	3F, Building 4, Section A, 3rd Industrial Zone of Tangtou, Shiyan Town, Bao'an District, Shenzhen, China.				
Production Facility (2)	:	Well Star Precision Techr	nology Limited	t c		
Address	:	24 Bao Ta Road, Bao Tang Community, Hou Jie Town, Dongguan City, Guangdong Province, China				
Production Facility (3)	:	VIETNAM IBE LASER TE	CHNOLOGY	COMPANY LIMITED		
Address	:	lot CN-34 and Lot CN-39, Thuan Thanh II industrial zone, An Binh & Mao Dien commune, Thuan Thanh district, Bac Ninh province, Vietnam				
Test Result	:	■ Positive □ Negative	ve			
Total pages including Appendices	:_	12				

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1 Table of Contents

1 Table of Contents	2
2 Description of the Equipment Under Test	3
3 Summary of Test Standards	4
4 Details about the Test Laboratory	5
4.1 Test Equipment Site List	5
4.2 Measurement System Uncertainty	5
5 General Remarks	6
6 Limit and Guidelines on Exposure to Electromagnetic Fields	7
7 Test Setup	8
8 Measurement Procedure	8
9 Test Result	9



2 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: Click Padlock

Model no.: Bluetooth Padlock

Hardware Version Identification No. Bluetooth Padlock

(HVIN)

Click Padlock Product Marketing Name (PMN)

N/A Brand name:

FCC ID: 2AA2X-15000345V2

IC: 24439-15000345V2

Rating: 3.0 VDC (2 x 1.5 VDC "AAA" size battery)

RF Transmission Frequency: RFID: 125 kHz

RFID: Coil Antenna Antenna Type:

Antenna Gain: RFID: 0 dBi

Description of the EUT: The Equipment Under Test (EUT) is a Click Padlock which

support Bluetooth (BLE) function, Zigbee function and 125

kHz near field card access function.



3 Summary of Test Standards

Test Standards / Requirements			
ANSI Std C95.1-2019	Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 kHz – 300 GHz. (IEEE Std C95.1-2019)		
47 CFR 1.1310	Radiofrequency radiation exposure limits.		
KDB 447498 D01	General RF Exposure Guidance v06		
KDB 680106 D01	Wireless Power Transfer v04		



4 Details about the Test Laboratory

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13 Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Shenzhen 518052, P.R.China FCC Registration Number: 514049

FCC Registration No.: 514049

FCC Designation CN5009

Number:

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299

4.1 Test Equipment Site List

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Electric and magnetic field probe Analyzer	NARDA	EHP-200A	180ZX10218	2025-2-20
Test software	NARDA	EHP200-TS	02.05	N/A
Shielding Room #2	TDK	втс		2025-10-15

4.2 Measurement System Uncertainty

Measurement System Uncertainty

System Measurement Uncertainty				
Items	Extended Uncertainty			
Uncertainty Evaluation for RF Exposure	1.45dB (Magnetic field) 1.45dB (Electric)			

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.



5 General Remarks

R	ei	m	а	r	k	S
	•		ч		г.	•

NIL

SUMMARY:

- All tests according to the regulations cited on page 4 were
 - - Performed
 - ☐ Not Performed
- The Equipment Under Test
 - - Fulfills the general approval requirements.
 - □ **Does not** fulfill the general approval requirements.

Sample Received Date: October 10, 2024

Testing Start Date: October 10, 2024

Testing End Date: November 18, 2024

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:

Tested by:

Eric LI Section Manager Kevin DU
EMC Project Engineer

Carry CAI EMC Test Engineer



6 Limit and Guidelines on Exposure to Electromagnetic Fields

According to §1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

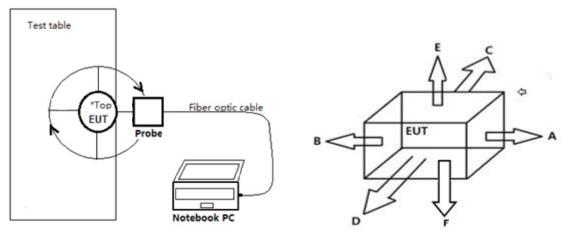
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
	(A) Limits for Occupational/Controlled Exposure							
0.3-3.0	614	1.63	*100	<6				
3.0-30	1842/f	4.89/f	*900/f ²	<6				
30-300	61.4	0.163	1.0	<6				
300-1,500			f/300	<6				
1,500-100,000			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				
300-1,500			f/1500	<30				
1,500-100,000			1.0	<30				

f = frequency in MHz * = Plane-wave equivalent power density

Per the guidance of KDB 680106, the E-field and H-field limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310 shown in the table above, 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 83 V/m for the electric field strength (E) and 90 A/m for the magnetic field strength (H).



7 Test Setup



The test distance between the edge of the EUT and the probe center is 20cm

8 Measurement Procedure

- a) The RF exposure test was performed on the table in anechoic chamber.
- b) The measurement was investigated between the edge of the EUT and center of the field
- c) probe in the closest state.
- d) Maximum E-field and H-field measurements were made on each of six sides of the EUT that could come in contact with a user. Six sides are defined as follows: Front (A), Rear (B), Left (C), Right (D), Top (E), Bottom (F) and Bottom and Refer to the test position diagram above.
- e) According to the guidance of KDB 680106 D01 v04, test distance 20cm was the distance between the edge of the EUT and the probe center.



9 Test Result

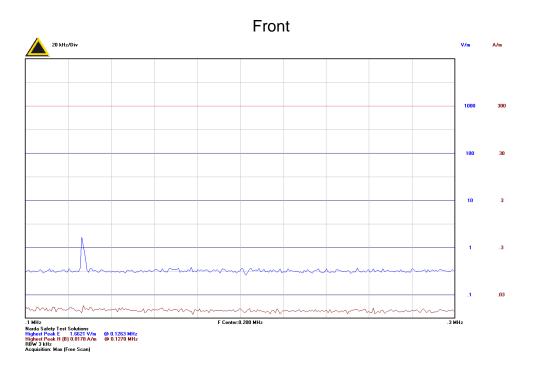
Operating Mode:

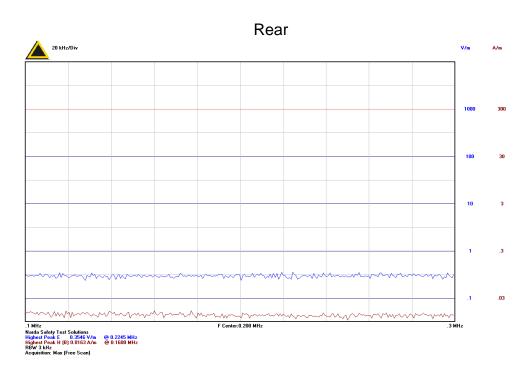
Operating Mode.						
Electric Field Emissions						
Test Position	Test Distance (cm)	Measure Value (V/m)	Limit (V/m)	Result		
Front	20	1.6621	614	PASS		
Rear	20	0.3546	614	PASS		
Left	20	0.3624	614	PASS		
Right	20	0.3727	614	PASS		
Тор	20	0.3651	614	PASS		
Bottom	20	0.3546	614	PASS		
	Magnetic Field Emissions					
Test Position	Test Distance (cm)	Measure Value (A/m)	Limit (A/m)	Result		
Front	20	0.0178	1.63	PASS		
Rear	20	0.0163	1.63	PASS		
Left	20	0.0163	1.63	PASS		
Right	20	0.0168	1.63	PASS		
Тор	20	0.0168	1.63	PASS		
Bottom	20	0.0163	1.63	PASS		

⁻ The test result compliance with requirement



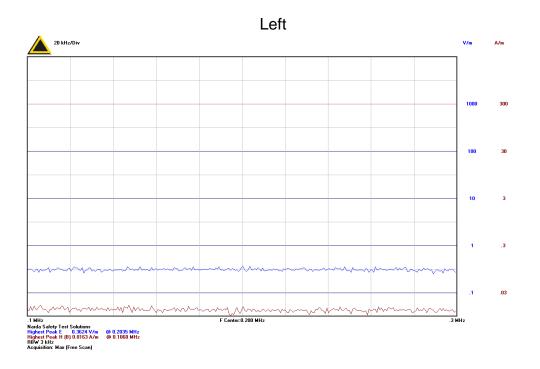
Test Result

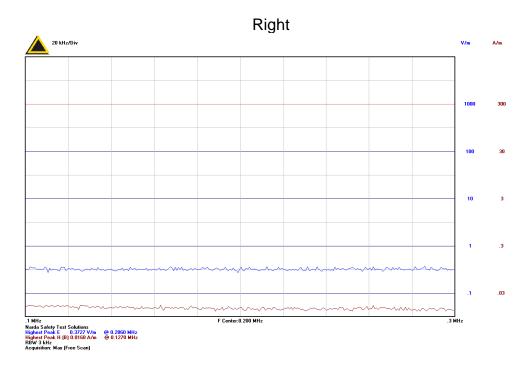






Test Result







Test Result

