



RF EXPOSURE **EXEMPT REPORT**

APPLICANT : Ningbo Tromox Technology Co., Ltd.

PRODUCT NAME : Wireless Remote Key

MODEL NAME : MX03KEYCA001S01

BRAND NAME : TROMOX

FCC ID : 2BAAA-MX03KEY

: 47 CFR Part 2(2.1093) STANDARD(S)

RECEIPT DATE : 2023-02-13

TEST DATE : 2023-02-15 to 2023-02-20

ISSUE DATE : 2023-03-06

Shenzhen Morlab Communications Technology Co., Ltd.

Edited by:

Approved by:

Shen Junsheng (Supervisor)

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

Fax: 86-755-36698525

Http://www.morlab.cn

E-mail: service@morlab.cn





DIRECTORY

1.	Technical Information	3
1.1	Applicant and Manufacturer Information	3
1.2	Equipment Under Test (EUT) Description	3
1.3	Applied Reference Documents	3
2.	Device Category and RF Exposure Limit	··· 3
3.	RF Output Power	5
4.	RF Exposure Evaluation	e
An	nex A Testing Laboratory Information ······	7

Change History			
Version Date		Reason for Change	
1.0 2023-03-06 First edition		First edition	



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Ningbo Tromox Technology Co., Ltd.	
Applicant Address.	Ist & 2nd Floors, Building 20, No.36 Xingshun Road, Sino-Italy	
Applicant Address:	Ningbo Ecological Park, Yuyao, Ningbo, Zhejiang, China	
Manufacturer:	Ningbo Tromox Technology Co., Ltd.	
Manufactures Adduses	Ist & 2nd Floors, Building 20, No.36 Xingshun Road, Sino-Italy	
Manufacturer Address:	Ningbo Ecological Park, Yuyao, Ningbo, Zhejiang, China	

1.2 Equipment Under Test (EUT) Description

Product Name:	Wireless Remote Key
Sample No.:	1#
Hardware Version:	YMXPKE02 V1.2
Software Version:	Pke_Remote_ook_V1.1.hex
Operating Frequency:	433.92MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-9.56dBi

1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method Determination /Remark
47 CFR Part 2(2.1093)	Radio Frequency Radiation Exposure Assessment: Portable devices	No deviation
KDB 447498 D01v06	General RF Exposure Guidance	No deviation

Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 2: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.





2. Device Category and RF Exposure Limit

Based on 47 CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47 CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

General Population/Uncontrolled Exposure:

47 CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





3. RF Output Power

Fraguency(MHz)	Max. Emission	Max. Emission	Time-averaging
Frequency(MHz)	E(dBµV/m)	(W)	EIRP (mW)
433.92	75.188	0.0057	0.00991

Note 1: According to KDB 447498, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The maximum average emission refers to report (Report No.: SZ23010171W01).





4. RF Exposure Evaluation

> Standalone Transmission SAR Evaluation:

- According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances≤ 50 mm are determined by:
 [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)] ≤ 3.0.
 - · f(GHz) is the RF channel transmit frequency in GHz
 - · Power and distance are rounded to the nearest mW and mm before calculation
 - · The result is rounded to one decimal place for comparison
- 2. Standalone SAR measurement is not required for the EIRP is less than the exempt condition according to KDB 447498 D01v06 4.3.2).

> Simultaneous SAR Evaluation:

This device only incorporates one transmitter, therefore simultaneous SAR evaluation is not required.





Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.	
	FL.3, Building A, FeiYang Science Park, No.8 LongChang	
Laboratory Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong	
	Province, P. R. China	
Telephone:	+86 755 36698555	
Facsimile:	+86 755 36698525	

2. Identification of the Responsible Testing Location

Name: Shenzhen Morlab Communications Technology Co., Ltd		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang	
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong	
	Province, P. R. China	

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

 END OF REPORT	



Tel: 86-755-36698555

Http://www.morlab.cn