

RF EXPOSURE REPORT

FOR

Applicant	:	Shenzhen Wanghe Technology Co., Ltd
Address	:	Rm105, Buliding 3, 1970 Technology Park, Minzhi Community, Minzhi Street, Longhua District, Shenzhen, China
Equipment under Test	:	Safe Box
Model No.	:	1T-BXH01, 1T-BXH01-BN, 1T-BXH02, 1T-BXH03, 1T-BXH04, 1T-BXH05
Trade Mark	:	N/A
FCC ID	:	2BAUG-BXH01
Manufacturer	:	Shenzhen Wanghe Technology Co., Ltd
Address	:	Rm105, Buliding 3, 1970 Technology Park, Minzhi Community, Minzhi Street, Longhua District, Shenzhen, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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REPORT

Table of Contents

	Test report declares.....	3
1.	General information.....	5
1.1.	Description of Equipment.....	5
1.2.	Assess laboratory.....	5
2.	RF Exposure evaluation.....	6
2.1.	Requirement.....	6
2.2.	Estimation Result	6

Test Report Declare

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE23020805-2E02		
Date of Receipt:	Feb. 17, 2023	Date of Test:	Feb. 17, 2023 ~ Apr. 24, 2023

Prepared By:

Jacky Huang

Jacky Huang/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Apr. 27, 2023	

1. General information

1.1. Description of Equipment

EUT* Name	: Safe Box
Model Number	: 1T-BXH01, 1T-BXH01-BN, 1T-BXH02, 1T-BXH03, 1T-BXH04, 1T-BXH05
Difference of model number	: All models are identical except that they differ in appearance and color. Therefore, the test model was 1T-BXH01.
EUT function description	: Please reference user manual of this device
Power supply	: DC 5 V by external AC adapter and Battery 1.5V*4(Size: AA*2)
Radio Specification	: Bluetooth V4.2
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK
Data Rate	: 1 Mbps
Antenna Type	: PCB antenna, maximum PK gain: 1.32 dBi
Sample Number	: S23020805-02 for radiation, S23020805-03 for conductive

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation

2.1. Requirement

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

$f(\text{GHz})$ 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

2.2. Estimation Result

Manufacturing Tolerance

BLE

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-8.0	-9.0	-10.0
Tolerance \pm (dB)	1.5	1.5	1.5

Estimation Result

Worse case is as below: [2402 MHz, -8.2 dBm, 0.15 mW) output power]

$(0.15/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.046 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT