

Report No.: GZCR220300024303

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RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2203000243AT

Applicant: IPX Corporation

Address of Applicant: 5F,98, Hannam-daero, Yongsan-gu

Manufacturer: Bath & Beauty Work, Ltd.

Address of Manufacturer: 277 broadway suit 1208 new york, NY 100072033, USA

Factory: Bath & Beauty Work, Ltd.

Address of Factory: 277 broadway suit 1208 new york, NY 100072033, USA

Equipment Under Test (EUT):

EUT Name: MIC

Model No.: 8809841682879, 8809841682886, 8809841682893. 8809841682909,

8809841682916, 8809841682923, 8809841682930 *

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

Trade Mark: BT21

Standard(s): 47 CFR Part 1.1307

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2022-03-14

Date of Evaluation: 2022-03-17 to 2022-04-18

Date of Issue: 2022-05-25

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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	Revision Record								
Version	Version Report No.		Remark						
01	GZCR220300024303	2022-05-25	Original						

Authorized for issue by:		
	Coly knong	
	Lily Kuang/Project Engineer	
	Riday Liu	
		_
	Ricky Liu/Reviewer	



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2 Evaluation Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

¤ Declaration of EUT Family Grouping:

Model No.: 8809841682879, 8809841682886, 8809841682893. 8809841682909, 8809841682916, 8809841682923, 8809841682930

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name, appearance and colour.

Therefore only one model 8809841682879 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below

XS18650;3.7V 1200mAh,4.4WH

DC 5V for charging mode by USB port

Ports: Micro USB port

Cable Micro USB port with 30cm unscreened cable

Antenna Gain: -0.68dBi
Antenna Type: PCB antenna

Channel Spacing: 1MHz

Modulation Type: GFSK, π/4DQPSK

Number of Channels: 79

Operation Frequency: 2402MHz to 2480MHz

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS)

Technology:

Hardware Version: KCH-858-6925E-20191216 MOSV2.6

Firmware Version: V1.3

S/N: SP-20220065001
Test Software Version: FCC assistant

Power setting level default

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.3 Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

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:

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

☐ f(GHz) is the RF channel transmit frequency in GHz
□ Power and distance are rounded to the nearest mW and mm before calculation ¹⁷
☐ The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm an
for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

5.1.2 Conclusion

For Bluetooth

The Mas Conducted Peak Output power is 1.3dBm on the lowest channel 2.480GHz

1.30 dBm logarithmic terms convert to numeric result is nearly 1.35 mW					
According to the formula. calculate the test exclusion thresholds:					
[(max. power of channel, including tune-up tolerance, mW)/					
(min. test separation distance, mm)] \cdot [$\sqrt{f(GH)}$	lz)]				
General RF Exposure = $(1.35 \text{ mW} / 5 \text{ mm}) \text{ x} \sqrt{2.48 \text{ GHz}} = 0.43$		(1)			
SAR requirement:					
S = 3.0			(2)		
(1) < (2)					
So the SAR report is not required.					

distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2203000243AT

- End of the Report -



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