RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2204000373HS
Applicant:	Feng Shuo Industrial Co., Ltd
Address of Applicant:	1#and 4# floor NO#10, YI MIN street, Xiao Lan Town, ZhongShan City, Guang Dong Province, China
Manufacturer:	Feng Shuo Industrial Co., Ltd
Address of Manufacturer:	1#and 4# floor NO#10, YI MIN street, Xiao Lan Town, ZhongShan City, Guang Dong Province, China
Factory:	Feng Shuo Industrial Co., Ltd
Address of Factory:	1#and 4# floor NO#10, YI MIN street, Xiao Lan Town, ZhongShan City, Guang Dong Province, China
Equipment Under Test (EUT):	
EUT Name:	cradle swing
Model No.:	B001, B001-1, B001-2, B002, B002-1, B003, B005, B006, B008, B009, F001, F002, F003-1, F003-2, F005, F006, F008, F009, F003 ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 1.1310
	KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2022-04-11
Date of Evaluation:	2022-04-28
Date of Issue:	2023-10-10
Evaluation Result:	**Pass***

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

Ricky Liu
Manager

Revision Record			
Version	**Report No.**	**Date**	**Remark**
01	GZCR220400037304	2023-10-10	Original

Authorized for issue by:				
		Jim Li **Jim Li/Project Engineer**		
		Vico Cui **Vico Cui/Reviewer**		

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2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

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.: B001, B001-1, B001-2, B002, B002-1, B003, B005, B006, B008, B009, F001, F002, F003-1, F003-2, F005, F006, F008, F009, F003

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 appearance decoration, color and model number.

Therefore, only one model F003 was tested in this report.

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC/DC ADAPTER MODEL: GFFDQ3-0601000U INPUT:100-240V~, 50/60Hz, 0.3A Max OUTPUT:6V==1A
Cable(s):	Adapter DC output cable, 2 wires, 1.5m, unshielded.
For BLE	
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Gain:	1.2 dBi
For BT Classic	
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Gain:	1.2 dBi

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.

4.3 Facility

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

- **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.

- **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

5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

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)] · [√f(GHz)] ≤ 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 and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.2 Conclusion

Normal use condition for Distance between antenna and body:	< 5 mm
Antenna Gain:	1.2 dBi

For BT BLE.

The Max Conducted Peak Output Power is 0.46 dBm on the lowest channel 2.402 GHz
0.46 dBm logarithmic terms convert to numeric result is nearly 1.11 mW
According to the formula. calculate the test exclusion thresholds:
[(max. power of channel, including tune-up tolerance, mW)/
(min. test separation distance, mm)] · [√f(GHz)]
General RF Exposure = (1.111 mW / 5 mm) x √2.402 GHz = 0.345 (1)
SAR requirement:
S = 3.0 (2)
(1) < (2)

For BT Classic.

The Max Conducted Peak Output Power is 3.38 dBm on the lowest channel 2.402 GHz
3.38 dBm logarithmic terms convert to numeric result is nearly 2.18 mW
According to the formula. calculate the test exclusion thresholds:
[(max. power of channel, including tune-up tolerance, mW)/
(min. test separation distance, mm)] · [√f(GHz)]
General RF Exposure = (2.18 mW / 5 mm) x √2.402 GHz = 0.675 (1)
SAR requirement:
S = 3.0 (2)
(1) < (2)

The BT dual mode can not be transmitted at the same time, so the SAR report is not required.

Note: Refer to report No. GZCR220400037302 & GZCR220400037303 for EUT test Max Conducted Peak Output Power value.

6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2204000373HS

- End of the Report -