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RF Exposure Evaluation Report

Report No.: CQASZ20220400695E-02
Applicant: Zhongshan City Cironbaby Co., Ltd.
Address of Applicant: No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China

Equipment Under Test (EUT):
EUT Name: Electric baby swing
Test Model No.: CR001, CR008
Model No.: CR001
Brand Name: N/A
FCC ID: 2A6PA-CR001
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2022-04-24
Date of Test: 2022-04-24 to 2022-05-10
Date of Issue: 2022-05-12
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou

(Lewis Zhou)

Reviewed By: Rock Huang

(Rock Huang)

Approved By: Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220400695E-02	Rev.01	Initial report	2022-05-12

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3 General Information

3.1 Client Information

Applicant:	Zhongshan City Cironbaby Co., Ltd.
Address of Applicant:	No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China
Manufacturer:	Zhongshan City Cironbaby Co., Ltd.
Address of Manufacturer:	No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China
Factory:	Zhongshan City Cironbaby Co., Ltd.
Address of Factory:	No.6, Yongxing North Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, Guangdong, China

3.2 General Description of EUT

Product Name:	Electric baby swing
Model No.:	CR001, CR008
Test Model No	CR001
Trade Mark:	N/A
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Software Version:	V1.0
Hardware Version:	V1.0
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
EUT Power Supply:	Battery:DC 1.5V*4 by Dry battery(SIZE:LR6) Adapter: Model:DZ007EL058100V INPUT:100-240V~, 50/60Hz, 0.15A OUTPUT: 5.8V $\overline{=}$ 1.0A

3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Test Software of EUT:	BK3256 RF Test_V1.3
Antenna Type:	PCB antenna
Antenna Gain:	1dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm}) \cdot \sqrt{f(\text{GHz})}} \right] \leq 3.0$$
 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 calculation¹⁷

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

4.1.3 EUT RF Exposure

Measurement Data

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.94	4±1	5	3.162
Middle(2441MHz)	4.35	4±1	5	3.162
Highest(2480MHz)	4.08	4±1	5	3.162
GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.33	4±1	5	3.162
Middle(2441MHz)	3.86	4±1	5	3.162
Highest(2480MHz)	3.44	4±1	5	3.162
GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.82	4±1	5	3.162
Middle(2441MHz)	4.18	4±1	5	3.162
Highest(2480MHz)	4.03	4±1	5	3.162

Worst case: GFSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.94	4±1	5	3.162	0.980	3.0
Middle (2441MHz)	4.35	4±1	5	3.162	0.988	
Highest (2480MHz)	4.08	4±1	5	3.162	0.995	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20220400695E-01.

*** END OF REPORT ***