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Report Template Version: V05

Report Template Revision Date: 2021-11-03

RF Exposure Evaluation Report

Report No.: CQASZ20240100200E-02
Applicant: Dongguan Yuyuan Intelligent Technology Co., Ltd
Address of Applicant: Room 201, Building 10, No.1 Jingdong Road, Fenggang Town,
Dongguan City, Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: Baby Monitor

Model No.: C2, C2S, C2-A, C2-B, C2-C, C3, C3S, C3-A, C3-B, C3-C, C4, C4S, C4-A, C4-B, C4-C, C5, C5S, C5-A, C5-B, C5-C, C6, C6S, C6-A, C6-B, C6-C, C7, C7S, C8, C8S, C8-A, C8-B, C8-C, C9, C9S, C10, C10S, C10-A, C10-B, C10-C, C11, C12, C13, C14, C15

Test Model No.: C3

Brand Name: 丹米尼, DANMINI

FCC ID: 2BEUY-C3

Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2024-1-21

Date of Test: 2024-1-22 to 2024-5-17

Date of Issue: 2024-5-17

Test Result: **PASS***

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Alex
(Alex Wang)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20240100200E-02	Rev.01	Initial report	2024-5-17

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3 General Information

3.1 Client Information

Applicant:	Dongguan Yuyuan Intelligent Technology Co., Ltd
Address of Applicant:	Room 201,Building 10,No.1 Jingdong Road,FenggangTown, Dongguan City,Guangdong Province, China
Manufacturer:	Dongguan Yuyuan Intelligent Technology Co., Ltd
Address of Manufacturer:	Room 201,Building 10,No.1 Jingdong Road,FenggangTown, Dongguan City,Guangdong Province, China
Factory:	Dongguan Yuyuan Intelligent Technology Co., Ltd
Address of Factory:	Room 201,Building 10,No.1 Jingdong Road,FenggangTown, Dongguan City,Guangdong Province, China

3.2 General Description of EUT

Product Name:	Baby Monitor
Model No.:	C2, C2S, C2-A, C2-B, C2-C, C3, C3S, C3-A, C3-B, C3-C, C4, C4S, C4-A, C4-B, C4-C, C5, C5S, C5-A, C5-B, C5-C, C6, C6S, C6-A, C6-B, C6-C, C7, C7S, C8, C8S, C8-A, C8-B, C8-C, C9, C9S, C10, C10S, C10-A, C10-B, C10-C, C11, C12, C13, C14, C15
Test Model No.:	C3
Trade Mark:	丹米尼, DANMINI
Software Version:	V1.3
Hardware Version:	V1.3
EUT Power Supply:	Power supply DC5V form adapter

3.3 General Description of 2.4G custom

Operation Frequency:	2412 MHz to 2458 MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Number of Channel:	47
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	1.5 dBi
Cable loss:	1.0 dB

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For 2.4G custom

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	2.61	0.46	0.5±1	1.5	1.41
Middle(2435MHz)	5.25	3.10	3.0±1	4.0	2.51
Highest(2458MHz)	4.41	2.26	2.5±1	3.5	2.24

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20240100200E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***