

RF Exposure Evaluation Report

Product : Dreame AI Smart Ring
Trade mark : N/A
Model/Type reference : RG002
Serial Number : N/A
Report Number : EED32R82504002
FCC ID : 2BT3MRG002
Date of Issue : Jan. 22, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

AierDream Technologies (Suzhou) Co., Ltd.

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Prepared by:

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2 General Information

2.1 Client Information

Applicant:	AierDream Technologies (Suzhou) Co., Ltd.
Address of Applicant:	Room 301, 3rd Floor, Building 6, No. 2288, Wuzhong Avenue, Economic Development Zone, Wuzhong District, Suzhou City, Jiangsu Province
Manufacturer:	AierDream Technologies (Suzhou) Co., Ltd.
Address of Manufacturer:	Room 301, 3rd Floor, Building 6, No. 2288, Wuzhong Avenue, Economic Development Zone, Wuzhong District, Suzhou City, Jiangsu Province
Factory:	Shenzhen eloT Technology Co.,Ltd
Address of Factory:	Room 2501-2503, Block B, Building 7, Phase III, International Innovation Valley, Dashili Road, Xili Sub-district, Nanshan District, Shenzhen City

2.2 General Description of EUT

Product Name:	Dreame AI Smart Ring
Model No.:	RG002
Test Model No.:	RG002
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz	
Modulation Type:	BLE: GFSK	
Test Power Grade:	Default	
Test Software of EUT:	BT_Tool.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	-6.12dBi	
Power Supply:	Battery1:	DC3.8V +18.5mAh
	Battery2:	DC3.8V +17mAh
Sample Received Date:	Dec. 18, 2025	
Sample tested Date:	Dec. 18, 2025 to ; Jan. 08, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BLE	2480	0.5	-2.80	-6.12	-11.07	0.078	2.717	0.0287	Pass

Note:

① EIRP=conducted power+antenna gain;

② ERP=EIRP-2.15;

③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤ The estimation distance is 0.5cm;

⑥ The test data please refer to the report of EED32R82504001 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***