

Report No. : EED32R82301904

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RF Exposure Evaluation Report

Product : eufy FamiLock E40
Trade mark : eufy
Model/Type reference : T85M0
Serial Number : N/A
Report Number : EED32R82301903
FCC ID : 2AOKB-T85M0
Date of Issue : Jan. 12, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result : PASS

Prepared for:

Anker Innovations Limited
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2 General Information

2.1 Client Information

Applicant:	Anker Innovations Limited
Address of Applicant:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer:	Anker Innovations Limited
Address of Manufacturer:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

2.2 General Description of EUT

Product Name:	eufy FamiLock E40
Model No.(EUT):	T85M0
Trade Mark:	eufy

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz to 2480MHz 2.4G Wi-Fi:IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz mmWave: 58GHz to 61GHz	
Modulation Type:	BLE: GFSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE for 802.11ax(HE20) : OFDMA (1024QAM, 256QAM, 64QAM, 16QAM,QPSK,BPSK) mmWave: FMCW(Frequency Modulated Continuous Wave)	
Test Software of EUT:	SSCOM V5.13.1	
Power Supply:	Battery:	DC 3.85V,15000mAh,57.75Wh
Test Voltage:	DC 3.85V	
Sample Received Date:	Nov. 28, 2025	
Sample tested Date:	Nov. 28, 2025 to Jan. 06, 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

(1)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.

(2)According to KDB 447498 D04 Interim General RF Exposure Guidance v01,for all devices,MPE limits in § 1.1310(e)(1) - Table1.The SAR-based exemption formula of § 1.1310(e)(1),Table 1 to § 1.1310(e)(1) sets forth limits for Maximum Permissible Exposure (MPE) to radio frequency electromagnetic fields.

Table 1 to § 1.1310(e)(1)—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3–3.0	614	1.63	*(100)	≤6
3.0–30	1842/f	4.89/f	*(900/f ²)	<6
30–300	61.4	0.163	1.0	<6
300–1,500			f/300	<6
1,500–100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	<30
1.34–30	824/f	2.19/f	*(180/f ²)	<30
30–300	27.5	0.073	0.2	<30
300–1,500			f/1500	<30
1,500–100,000			1.0	<30

f = frequency in MHz.

* = Plane-wave equivalent power density.

Friis Formula,

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$;

Where,

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.141592653589793;

R = distance between observation point and center of the radiator in cm .

General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. For example, RF sources intended for consumer use shall be subject to the limits for general population/uncontrolled exposure in this section.

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:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	4.51	3.67	6.03	4.01	3060.00	0.0013	Pass
@2.4G Wi-Fi	20	17.91	3.67	21.58	143.88	3060.00	0.0470	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP = EIRP - 2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32R82301901, EED32R82301902 and only the worst case data was recorded in the report.

Working environment	Frequency (MHz)	Estimation distance (cm)	EIRP (dBm)	EIRP (mW)	Power density (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
Uncontrolled	59086.9	20	18.76	75.1623	0.0150	1.0	0.0150	Pass

Note:

- ① $EIRP(mW) = 10^{(EIRP(dBm)/10)}$;
- ② The estimation distance is 20cm;
- ③ Tune-up EIRP was declared by manufacturer;
- ④ The test data of Corrected EIRP please refer to the report of EED32R82301903 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (2.4G Wi-Fi+mmWave)=0.0470+0.0150=0.0620 < 1, it's deemed to fulfil the RF exposure requirement.

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;
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*** End of Report ***