RF Exposure Evaluation Report

Product	:	AMS 2 Pro
Trade mark	:	bambulab
Model/Type reference	:	SA007
Serial Number	:	N/A
Report Number	:	EED32Q81560502
FCC ID	:	2A6J8-SA007
Date of Issue	:	Mar. 20, 2025
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result	:	PASS

Prepared for:

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Prepared by:

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Check No.: 6556300924

1 Version

Version No.	Date	Description
00	Mar. 20, 2025	Original

2 Contents

3 General Information

3.1 Client Information

Applicant:	Shenzhen Tuozhu Technology Co., Ltd.
Address of Applicant:	Room 201, Building A, No. 1 First Qianwan Road, Qianhai Shengang Cooperation Zone, Shenzhen
Manufacturer:	Shenzhen Tuozhu Technology Co., Ltd.
Address of Manufacturer:	Room 201, Building A, No. 1 First Qianwan Road, Qianhai Shengang Cooperation Zone, Shenzhen

3.2 General Description of EUT

Product Name:	AMS 2 Pro
Model No.(EUT):	SA007
Trade Mark:	bambulab

3.3 Product Specification subjective to this standard

Frequency Range:	13.56MHz
Modulation Type:	ASK
Test Power Grade:	Default
Test Software of EUT:	RF Test
Antenna Type:	Coil antenna
Power Supply:	External power supply: Input: 100-240V, 1.5A max, 50/60Hz Output: 24V DC, 4.0A Powered by H2D: 24V DC, 4.0A
Sample Received Date:	Nov. 04, 2024
Sample tested Date:	Nov. 04, 2024 to Nov. 12, 2024

Remark:

Note: After the product is connected to the communication line, it will open the emission mode, two identical antennas.

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

Determination of exemption.
(i) For single RF sources (i.e., any single ¦xed RF source, mobile device, or portable device, as de¦ned in paragraph (b)(2) of this section): A single RF source is exempt if:
(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least λ/2π, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum timeaveraged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ/4 or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C)—Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3–1.34	1,920 R^2.
1.34–30	3,450 R^2/f^2.
30–300	3.83 R^2.
300–1,500	0.0128 R^2f.
1,500–100,000	19.2R^2.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at 13.56MHz individually.

4.1.3 EUT RF Exposure Evaluation

For standalone:

Frequency (MHz)	Field strength of the fundamental signal (dBuV/m@3m)	ERP (dBm)	ERP (W)	Threshold ERP (W)	Result
13.56	47.11	-50.27	9.397233e-9	≤0.7505	PASS

Note：

①EIRP=conducted power+antenna gain；

②ERP=EIRP-2.15;

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

④ERP(mW) = 10^(ERP (dBm)/10);

⑤The estimation distance(R) is 0.2m;

⑥The test data please refer to the report of EED32Q81560501.

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;

5. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***