FCC RF EXPOSURE REPORT

For

Wi-Fi/Bluetooth Module

MODEL NUMBER: AP6275S-1

REPORT NUMBER: 4791873944.1-RF-4

ISSUE DATE: October 28, 2025

FCC ID: 2A2P9-EFPCS24

Prepared for

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	July 23, 2025	Initial Issue	Johnson Liu
V1	October 28, 2025	Updated new antenna calculated results.	Johnson Liu

Note: This report is based on original report 4791873944.1-RF-4 which is issued by UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch. The EUT had already applied for the FCC ID: 2A2P9-EFPCS24. The customer provided an additional chain 1 antenna as a different condition for testing, based on the original sample. Therefore, without making any changes to the sample other than the antenna, after assessing the impact of the test, only the worse calculated results for different conditions were updated and the report version was upgraded to V1.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	EcoFlow Inc.
Address:	RM 401,Plant #1,Runheng Industrial Zone, Fuhai Street,Bao'an District, Shenzhen, 518000, China

Manufacturer Information

Company Name:	EcoFlow Inc.
Address:	RM 401,Plant #1,Runheng Industrial Zone, Fuhai Street,Bao'an District, Shenzhen, 518000, China

EUT Information

EUT Name:	Wi-Fi/Bluetooth Module
Model:	AP6275S-1
Brand:	ECOFLOW
Sample Received Date:	July 11, 2025
Sample Status:	Normal
Sample ID:	8700493
Date of Tested:	July 16, 2025 to October 28, 2025

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
447498 D04 Interim General RF Exposure Guidance v01	**PASS**

Prepared By:

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Checked By:

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Operations Leader

Approved By:

Stephen Guo

Operations Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202

Note 1:
All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:
The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd.
Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:
For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. REQUIREMENT

LIMIT AND CALCULATION METHOD

According to 447498 D04 Interim General RF Exposure Guidance v01,

2.1.4 MPE-Based Exemption
An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to λ/2π, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.10 For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

MPE-based Exemption

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

$$P_{\text{th}}\ (\text{mW}) = \begin{cases} ERP_{20\ \text{cm}}(d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ \text{cm}} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases} \qquad (\text{B.2})$$

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_{20cm} is per Formula (B.1).

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CALCULATED RESULTS

For Single RF Source

Operating Mode	Max. Tune up Power	Max. Antenna Gain	EIRP	ERP	ERP	Distance	Limit Threshold
	(dBm)	(dBi)	(dBm)	(dBm)	(mW)	(cm)	(mW)
BLE	8.5	5.37	13.87	11.72	14.859	20	3060
WIFI2.4G	20	5.37	25.37	23.22	209.894	20	3060
WIFI5G	19	5.05	24.05	21.9	154.882	20	3060

For Simultaneous Operations:
Condition1:

Operating Mode	ERP	Limit Threshold	Ratio (mW/cm2)	Sum of Ratios (mW/cm2)	Limit of Ratios (mW/cm2)
	(mW)	(mW)			
BLE	14.859	3060	0.00486	0.07345	1
WIFI2.4G	209.894	3060	0.06859		

Condition2:

Operating Mode	ERP	Limit Threshold	Ratio (mW/cm2)	Sum of Ratios (mW/cm2)	Limit of Ratios (mW/cm2)
	(mW)	(mW)			
BLE	14.859	3060	0.00486	0.05547	1
WIFI5G	154.882	3060	0.05062		

Condition3:

Operating Mode	ERP	Limit Threshold	Ratio (mW/cm2)	Sum of Ratios (mW/cm2)	Limit of Ratios (mW/cm2)
	(mW)	(mW)			
WIFI2.4G	209.894	3060	0.06859	0.11921	1
WIFI5G	154.882	3060	0.05062		

Note:
1. The calculated distance is 20 cm.
2. The power comes from operation description.
3. Only BLE & WLAN 2.4G, BLE & WLAN 5G, WLAN 2.4G & WLAN 5G can transmit simultaneously. (declared by client).

END OF REPORT

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