TEST REPORT

Applicant Name :	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.
Address :	No.2602,26th Floor, Block B, Dongfang Building No.198-19, Songshan South Road, Erqi District, Zhengzhou, China
Report Number :	2504V71150E-RF
FCC ID:	2A4G9-021

Test Standard (s)

47 CFR §1.1307& §2.1091

Sample Description

Product Type:	WIFI+BLE module
Model No.:	UAM057
Trade Mark:	dewenwils edishine
Date Received:	2025-07-31
Report Date:	2025-08-13

Test Result:	The EUT complied with the standards above.

Prepared and Checked By:

Roger.Ling
EMC Engineer

Approved By:

Bob.Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504V71150E-RF	Original Report	2025-08-13

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	WIFI+BLE module
Tested Model	UAM057
Voltage Range#	DC 3.0~3.6V(typical DC 3.3V)
Note: The module has two types of antenna configuration, one use PCB antenna, another use external I-PEX antenna, the two version share the same antenna path, the antenna path was selected by component jump, only one antenna would be active on each device.	

Frequency Range	BLE 1M: 2402-2480MHz 2.4G Wi-Fi: 2412-2472MHz
Antenna Specification#	PCB Antenna: -1.3dBi External I-PEX Antenna: 2.0dBi (It is provided by the applicant.)
Sample Serial Number	External I-PEX antenna version: 37BS-3 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 1-Subpart I and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with §1.1307 & §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to FCC §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 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. 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).

Table 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.

f = frequency in MHz;
R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

Test result

For worst case:

Mode	Frequency Range (MHz)	Tune-Up Conducted Output Power# (dBm)	Antenna Gain#		ERP		Evaluation Distance (cm)	MPE-Based Exemption (mW)
			(dBi)	(dBd)	(dBm)	(mW)		
BLE	2402-2480	4.5	2.0	-0.15	4.35	2.72	20	768.0
2.4G WIFI	2412-2472	16.3	2.0	-0.15	16.15	41.21	20	768.0

Note 1: The tune-up power and antenna gain are declared by the applicant.
Note 2: 0dBd=2.15dBi.
Note 3: The BLE and 2.4G WIFI can't transmission simultaneously.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance.

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504V71150E-RF EUT External Photos and Attachment No.2 2504V71150E-RF EUT Internal Photos.

******* END OF REPORT *******