

TEST REPORT

Reference No...... : WTF26D01004507W004
FCC ID : 2BUMV-RANGERIA250
Applicant..... : Vera-Fi Audio, LLC.
Address..... : 9025 CRESTVIEW DR, DENTON TX 76207, USA
Manufacturer : Dongguan HiFine Electronics Co., Ltd.
Address : 3rd Floor, Building 7, Zhongke Industrial Park, No. 88, Wenming Street, Baidi Community, Zhangmutou Town, Dongguan City, Guangdong Province, China 523620
Product..... : Amplifier
Model(s) : Ranger I/A 250, Ranger I/A 80.2
Standards..... : FCC 47CFR Part 2 Subpart J Section 2.1091
Date of Receipt Sample : 2026-01-09
Date of Test : 2026-01-14 to 2026-07-02
Date of Issue..... : 2026-07-03
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3. Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF26D01004507W004	2026-01-09	2026-01-14 to 2026-07-02	2026-07-03	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	Amplifier
Model(s):	Ranger I/A 250, Ranger I/A 80.2
Model Description:	Ranger I/A 250 and Ranger I/A 80.2 differ in both model names and internal hardware, utilizing different power amplifier chipsets to deliver varying power output levels.
Remark:	Model Ranger I/A 250 was tested in the report.
Test Sample No.:	1-1/1
Bluetooth Version:	5.3
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
Hardware Version:	XD1_IN V1
Software Version:	1142

4.2. Details of E.U.T.

Operation Frequency:	Bluetooth: 2402-2480MHz, 79 Channels in total 2.4G Wi-Fi: 802.11b/g/n HT20: 2412~2462MHz, 11CH 802.11n HT40: 2422~2452MHz, 7CH
Max. RF output power:	Bluetooth: 10.37dBm 2.4G Wi-Fi: 19.27dBm
Modulation Technology:	Bluetooth: GFSK, $\pi/4$ DQPSK, 8DPSK 2.4G Wi-Fi: DSSS, OFDM
Antenna installation:	Rubber Duck Antenna
Antenna Gain:	3.99dBi
Note:	#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.
Ratings:	Input: 100-120V~, 60Hz; 220-240V~, 50Hz Input power: 200W(Ranger I/A 80.2), 300W(Ranger I/A 250)

4.3. Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.4. Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.5. Abnormalities from Standard Conditions

None.

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC Part 2.1091	PASS

6. RF Exposure

Test Requirement: FCC 47CFR Part 2 Subpart J Section 2.1091

Evaluation Method: FCC 47CFR Part 1 Subpart I Section 1.1310,
KDB 447498 D01 General RF Exposure Guidance v06

6.1. Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

6.2. The procedures / limit

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	<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	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

6.3. MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = output power to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

6.4. Radio Frequency Radiation Exposure Evaluation

Band	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Bluetooth	3.99	2.51	10.37	10.89	0.005428	1.0
2.4G Wi-Fi	3.99	2.51	19.27	84.53	0.042210	1.0

Simultaneous Transmission

Mode	Power Density (mW/cm ²)	Limit (mW/cm ²)
Bluetooth +2.4G Wi-Fi	0.047638	1.0

Note: Chose the maximum power to do MPE analysis.

Conclusion:

RF Exposure is FCC compliant.

=====End of Report=====