

RF EXPOSURE REPORT

Applicant:	EXPRESS LUCK INDUSTRIAL (SHENZHEN) LIMITED		
Address:	Floor1, Workshop1, NO.88, SOUTH BAOTONG ROAD, XIKENG COMMUNITY, YUANSAN STREET, LONGGANG DISTRICT, Shenzhen		
Manufacturer:	Guangzhou Shikun Electronics Co., Ltd		
Address:	No.6, Liankun Road, Huangpu District, Guangzhou, China		
Product Description:	IEEE 802.11b/g/n 2T2R USB Wi-Fi Module		
Brand Name:	NA		
Tested Model:	EL.RT8192FC-WFT		
FCC ID:	2AWY6-ELRT8192FCT		
Report No.:	JCF250408041-002		
Received Date:	Apr. 08, 2025		
Tested Date:	Apr. 08, 2025 ~ Apr. 18, 2025		
Issued Date:	Apr. 18, 2025		
Test Standards:	KDB 447498 D01 General RF Exposure Guidance v06		
Test Result:	Pass		
Prepared By:  <u>Roger Li/Engineer</u> Date: Apr. 18, 2025			
Reviewed By:  <u>Kennys Zhang/Engineer</u> Date: Apr. 18, 2025			
Approved By:  <u>Talent Zhang/Engineer</u> Date: Apr. 18, 2025			

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 18, 2025	Original Report	/

Table of Contents

1. Test Report Declare	4
2. Equipment Under Test	5
2.1. Description of EUT	5
2.2. Description of Available Antennas	5
3. Test Laboratory	6
4. RF Exposure Measurement	7
4.1. Requirement	7
4.2. Limits for Maximum Permissible Exposure (MPE)	7
4.3. MPE Calculation Formula	7
4.4. Classification	7
4.5. Conducted Power	7
5. RF Exposure Calculation	8



1. Test Report Declare

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Manufacturer:	Guangzhou Shikun Electronics Co., Ltd
Address:	No.6, Liankun Road, Huangpu District, Guangzhou, China
Product Name	IEEE 802.11b/g/n 2T2R USB Wi-Fi Module
Brand Name:	NA
Model Name:	EL.RT8192FC-WFT
Difference Description:	NA

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Equipment Under Test

2.1. Description of EUT

EUT* Name:	IEEE 802.11b/g/n 2T2R USB Wi-Fi Module
Model Number:	EL.RT8192FC-WFT
EUT Function Description:	Please refer to the user manual of this device
Power Supply:	DC 3.3V
Hardware Version:	NA
Software Version:	NA
Radio Specification:	IEEE802.11b/g/n
Operation Frequency:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n (HT20/40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4Mbps IEEE 802.11n HT40: 30.0, 60.0, 90.0, 120.0, 180.0, 240.0, 270.0, 300.0 Mbps
Antenna Type:	Sheet Metal Antenna, MAX. Gain: 0.48 dBi
Product Type:	☐ Portable device ☒ Mobile device ☐ Fixed device

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

2.2. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
2.4G WIFI	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. RF Exposure Measurement

4.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

4.2. Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
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
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

* = Plane-wave equivalent power density.

4.3. MPE Calculation 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 = 3.1416

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

4.4. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

4.5. Conducted Power

Band	Channel Frequency (MHz)	Average Power (dBm)
2.4G WIFI	2412	17.86

5. RF Exposure Calculation

We used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

Band	Channel Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit (mW/cm ²)	PASS/FAIL
2.4G WIFI	2412	17.86	0.48	0.014	1	PASS

This confirmed that the device comply with FCC 1.1310 MPE limit.

--END--