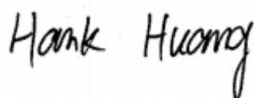


RF Exposure Evaluation Report

APPLICANT : Rolling Wireless S.à r.l.
EQUIPMENT : RW962E
BRAND NAME : Rolling Wireless
MODEL NAME : RW962E
FCC ID : 2AX2URW962E
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 V06

The product evaluation date was started from Jun. 11, 2026 and completed on Jun. 11, 2026. We, Sporton International Inc. (Shenzhen), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.



Approved by: Hank Huang

Sporton International Inc. (Shenzhen)

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People's Republic of China



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**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA610707-01	Rev. 01	Initial issue of report.	Jul. 23, 2026

1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant	
Company Name	Rolling Wireless S.à r.l.
Address	8-10 rue Mathias Hardt 1717 Luxembourg

Manufacturer	
Company Name	Rolling Wireless S.à r.l.
Address	8-10 rue Mathias Hardt 1717 Luxembourg

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	RW962E
Brand Name	Rolling Wireless
Model Name	RW962E
FCC ID	2AX2URW962E
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	WLAN 2.4GHz : 802.11b/g/n HT20/HT40 WLAN 2.4GHz : 802.11ac/ax VHT20/VHT40/HE20/HE40 WLAN 5GHz : 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE
Antenna Gain	ANT1/2: WLAN 5.2GHz: 1.14 dBi WLAN 5.3GHz: 1.83 dBi WLAN 5.5GHz: 3.18 dBi WLAN 5.8GHz: 3.42 dBi ANT2/3: WLAN 2.4GHz: 2.44 dBi ANT1: Bluetooth: 2.44 dBi
Antenna Type	Glue stick Antennas
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. 802.11b/g supports only SISO mode for 2.4GHz WLAN, and 802.11a supports only SISO mode for 5GHz WLAN.
3. Since the MIMO power is higher, only the MIMO tune-up power was selected to perform MPE calculation conservatively.

Comments and Explanations:

1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.



3. Maximum RF average output tune up power among production units

<2.4GHz WLAN >

Mode		Maximum Average Power (dBm)		
		Ant 2	Ant 3	MIMO
2.4GHz	802.11b	18.00	15.00	-
	802.11g	17.50	17.00	-
	802.11n-HT20	16.50	15.50	19.00
	802.11n-HT40	13.00	13.00	16.00
	802.11ac-VHT20	15.50	15.50	18.50
	802.11ac-VHT40	13.00	13.00	16.00
	802.11ax-HE20	16.50	15.50	19.00
	802.11ax-HE40	13.00	13.00	16.00

<Bluetooth>

Mode		Maximum Average power(dBm)
Bluetooth	BR/EDR	12.00
	LE	8.00

<WLAN 5GHz>

Mode		Maximum Average Power (dBm)		
		Ant 1	Ant 2	MIMO
WLAN 5.2GHz	802.11a	15.00	15.00	-
	802.11n-HT20	14.50	13.50	17.00
	802.11n-HT40	14.50	13.50	17.00
	802.11ac-VHT20	14.50	13.50	17.00
	802.11ac-VHT40	14.50	13.50	17.00
	802.11ac-VHT80	14.50	13.50	17.00
	802.11ax-HE20	14.50	13.50	17.00
	802.11ax-HE40	14.50	13.50	17.00
	802.11ax-HE80	14.50	13.50	17.00
WLAN 5.3GHz	802.11a	15.00	15.00	-
	802.11n-HT20	15.50	14.50	18.00
	802.11n-HT40	14.50	13.50	17.00
	802.11ac-VHT20	15.50	14.50	18.00
	802.11ac-VHT40	14.50	13.50	17.00
	802.11ac-VHT80	14.50	13.50	17.00
	802.11ax-HE20	15.50	14.50	18.00
	802.11ax-HE40	14.50	13.50	17.00
	802.11ax-HE80	14.50	13.50	17.00
WLAN 5.5GHz	802.11a	15.00	15.00	-
	802.11n-HT20	15.50	14.50	18.00
	802.11n-HT40	14.50	13.50	17.00
	802.11ac-VHT20	15.50	14.50	18.00
	802.11ac-VHT40	14.50	13.50	17.00
	802.11ac-VHT80	14.50	13.50	17.00
	802.11ax-HE20	15.50	14.50	18.00
	802.11ax-HE40	14.50	13.50	17.00
	802.11ax-HE80	14.50	13.50	17.00
WLAN 5.8GHz	802.11a	14.50	14.50	-
	802.11n-HT20	15.50	14.50	18.00
	802.11n-HT40	14.50	13.50	17.00

	802.11ac-VHT20	15.50	14.50	18.00
	802.11ac-VHT40	14.50	13.50	17.00
	802.11ac-VHT80	13.50	13.50	16.50
	802.11ax-HE20	15.50	14.50	18.00
	802.11ax-HE40	14.50	13.50	17.00
	802.11ax-HE80	13.50	13.50	16.50

Note: WLAN2.4GHz 802.11n/ac/ax and WLAN5GHz 802.11n/ac/ax supports SISO/MIMO mode. Since the MIMO power is higher, only the MIMO tune-up power was selected to perform MPE calculation conservatively.

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) 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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
Bluetooth	2402.0	2.44	12.00	14.440	27.797	0.006	1.000	0.006
2.4GHz WLAN	2412.0	2.44	19.00	21.440	139.316	0.028	1.000	0.028
5.2GHz WLAN	5180.0	1.14	17.00	18.140	65.163	0.013	1.000	0.013
5.3GHz WLAN	5260.0	1.83	18.00	19.830	96.161	0.019	1.000	0.019
5.5GHz WLAN	5500.0	3.18	18.00	21.180	131.220	0.026	1.000	0.026
5.8GHz WLAN	5745.0	3.42	18.00	21.420	138.676	0.028	1.000	0.028

Note:

1. For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum RF output tune up power and the maximum antenna gain of all antennas among same frequency WLAN/BT bands to perform MPE calculation conservatively.

5.2. Collocated Power Density Calculation

Maximum Bluetooth Power Density / Limit	Maximum WLAN 2.4GHz Power Density / Limit	Maximum WLAN 5GHz Power Density / Limit	Σ (Power Density / Limit) of Bluetooth + WLAN 2.4GHz + WLAN 5GHz
0.006	0.028	0.028	0.062

Note:

1. According to the EUT characteristic, Bluetooth and WLAN 2.4GHz and WLAN 5GHz can transmit simultaneously.
2. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for Bluetooth + WLAN 2.4G + WLAN5GHz.
3. Considering all transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----