

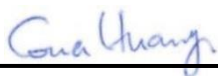
# RF EXPOSURE EVALUATION REPORT

FCC ID : S9GT670  
Equipment : T670 Access Point  
Brand Name : RUCKUS  
Model Name : T670  
Applicant : Ruckus Wireless LLC  
350 W. Java Dr., Sunnyvale CA 94089 USA  
Manufacturer : Ruckus Wireless LLC  
350 W. Java Dr., Sunnyvale CA 94089 USA  
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full



Approved by: Cona Huang / Deputy Manager



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## **Table of Contents**

|                                                                 |   |
|-----------------------------------------------------------------|---|
| 1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) .....              | 4 |
| 2. MAXIMUM RF AVERAGE OUTPUT POWER AMONG PRODUCTION UNITS ..... | 4 |
| 3. RF EXPOSURE LIMIT INTRODUCTION .....                         | 5 |
| 4. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION .....          | 5 |
| 4.1. Standalone Power Density Calculation .....                 | 5 |



## History of this test report

| Report No.   | Version | Description             | Issued Date   |
|--------------|---------|-------------------------|---------------|
| FA231214001A | Rev. 01 | Initial issue of report | Mar. 20, 2024 |
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**1. Description of Equipment Under Test (EUT)**

| Product Feature & Specification         |                                                                                                                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Type                                | T670 Access Point                                                                                                                                                                                                |
| Brand Name                              | RUCKUS                                                                                                                                                                                                           |
| Model Name                              | T670                                                                                                                                                                                                             |
| FCC ID                                  | S9GT670                                                                                                                                                                                                          |
| Wireless Technology and Frequency Range | WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz<br>WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz<br>WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz<br>WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz<br>WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz |
| Mode                                    | WLAN: 802.11a/b/g/n/ac/ax/be<br>HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160                                                                                                 |
| HW Version                              | Rev.6                                                                                                                                                                                                            |
| SW Version                              | 122.0.0.0.3059                                                                                                                                                                                                   |

**Reviewed by: Jason Wang****Report Producer: Daisy Peng****2. Maximum RF average output power among production units**

| WLAN Mode               | Maximum Average power(dBm) |
|-------------------------|----------------------------|
| 2.4GHz Band MIMO        | 24.47                      |
| 5GHz Band MIMO 2Tx Mode | 25.24                      |
| 5GHz Band MIMO 4Tx Mode | 28.77                      |

### **3. 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 <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                       |                               |                               | f/300                               | 6                        |
| 1500-100,000                                                   |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 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

### **4. Radio Frequency Radiation Exposure Evaluation**

#### **4.1. Standalone Power Density Calculation**

| Band                        | Antenna Gain (dBi) | Maximum Power (dBm) | Maximum EIRP (dBm) | Maximum EIRP (W) | Average EIRP (mW) | Power Density at 20cm (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|-----------------------------|--------------------|---------------------|--------------------|------------------|-------------------|---------------------------------------------|-----------------------------|
| WLAN2.4GHz Band MIMO        | 2.10               | 24.47               | 26.57              | 0.45             | 453.94            | 0.090                                       | 1.000                       |
| WLAN5GHz Band MIMO 2Tx Mode | 3.10               | 25.24               | 28.34              | 0.68             | 682.34            | 0.136                                       | 1.000                       |
| WLAN5GHz Band MIMO 4Tx Mode | 3.10               | 28.77               | 31.87              | 1.54             | 1538.15           | 0.306                                       | 1.000                       |

### **Conclusion:**

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