


# 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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## History of this test report

Report No.	Version	Description	Issued Date
FA231214001B	Rev. 01	Initial issue of report	May 06, 2024

**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 WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT320
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
6GHz Band MIMO	22.74

### **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
WLAN6GHz Band MIMO	2.50	22.74	25.24	0.33	334.20	0.067	1.000

### **Conclusion:**

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