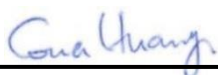


RF EXPOSURE EVALUATION REPORT

FCC ID : S9GQ950US02
Equipment : LTE Access Point
Brand Name : RUCKUS
Model Name : Q950-US02
Applicant : Ruckus Wireless Inc.
350 W. Java Dr., Sunnyvale CA 94089
Manufacturer : Ruckus Wireless Inc.
350 W. Java Dr., Sunnyvale CA 94089
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1091 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.



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA200510001	Rev. 01	Initial issue of report	Dec. 16, 2020

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	LTE Access Point
Brand Name	RUCKUS
Model Name	Q950-US02
FCC ID	S9GQ950US02
Wireless Technology and Frequency Range	LTE Band 48: 3550 MHz ~ 3700 MHz
Mode	LTE: QPSK, 16QAM, 64QAM, 256QAM
HW Version	1.0
SW Version	4.1.0.22
EUT Stage	Identical Prototype

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

Mode		Maximum Average power(dBm)
LTE	Band 48	35.30

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 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 75 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. Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 75cm (mW/cm ²)	Limit (mW/cm ²)
LTE Band 48	3550	13.00	35.30	48.3	67.61	67608.30	0.957	1.000

Conclusion:

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