



FCC ID: SU3RMWIFI-QC  
IC: 20969-RMWIFIQC

**Statement of compliance to  
Maximum Permissible Exposure (MPE)  
No. 160100483SHA-003**

Applicant : RAE Systems INC.

3775 North First Street, San Jose, CA95134 USA

Product Name : WIFI Module

Type/Model : RMWIFI-QC

**According to §2.1091, §2.1093 and §1.1307(b), systems operating under the provisions of this 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.**

Date of issue: February 24, 2016

Prepared by:

A handwritten signature in black ink that reads "Wade Zhang".

Wade Zhang (*Project Engineer*)

Reviewed by:

A handwritten signature in black ink that appears to read "Daniel Zhao".

Daniel Zhao (*Reviewer*)



Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

| Frequency band | Power |       | Antenna Gain |           | R    | S        | Limits   |
|----------------|-------|-------|--------------|-----------|------|----------|----------|
| (MHz)          | dBm   | mW    | dBi          | (Numeric) | (cm) | (mW/cm2) | (mW/cm2) |
| 2412 - 2462    | 19.98 | 99.54 | 4.9          | 3.09      | 20   | 0.061    | 1        |

For the Tolerance of the max Power:

The maximum power=19+1dBm=20dBm;

| Frequency band | Power |     | Antenna Gain |           | R    | S        | Limits   |
|----------------|-------|-----|--------------|-----------|------|----------|----------|
| (MHz)          | dBm   | mW  | dBi          | (Numeric) | (cm) | (mW/cm2) | (mW/cm2) |
| 2412 - 2462    | 20    | 100 | 4.9          | 3.09      | 20   | 0.062    | 1        |

Note: 1 mW/cm2 from 1.310 Table 1



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## **Appendix I**

**Definition below must be outlined in the User Manual:**

To satisfy FCC RF exposure requirements, a separation distance of **20** cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.