

## Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : RAE Systems Inc.  
3775 N. 1st St., San Jose, California USA 95134  
Manufacturer : RAE Systems Inc.  
3775 N. 1st St., San Jose, California USA 95134  
Product Name : RAE WIFI Module  
Type/Model : RMWIFI

**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.**

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

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

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test reports 141201503SHA-001:

The maximum output power = 12.45dBm, G=1.50dBi

The MPE of Bluetooth =  $PG / (4\pi R^2) = 24.83\text{mW} / (4 * 3.14 * 20 * 20) = 0.0049\text{mW}/\text{cm}^2$

This level is below the simultaneous transmission MPE test exclusion requirements ( $\leq 1.0$ ).

Date of issue: March 2, 2015

Prepared by:



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Reviewed by:



Daniel Zhao (*Reviewer*)

## **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.