



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.

Equipment : AreaRAE Pro, AreaRAE Plus

Type/Model : PGM-6560D(AreaRAE Pro),

PGM-6520D(AreaRAE Plus)

Test Result : Pass

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 $S = power density in mW/cm^2$

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

For BLE, as we can see from the test report 160502874SHA-003

Tor BEE, as we can see me	BEE, as we can see from the test report 1002 0207 form 1 002						
Frequency band (MHz)	Max power		Antenna	Gain	R	S	
2400-2483.5MHz	-10.53dBm	0.0885mW	-1.5dBi	0.71	20cm	0.0000125	

For Mesh, as we can see from the test report 160502874SHA-002

Frequency band (MHz)	Max power		Antenna Gain		R	S
902MHz-928MHz	12.93dBm	19.63mW	3.0dBi	1.99	20cm	0.0077

For WIFI, as we can see from the test report 160502874SHA-001

01 W 11 1, 45 W 0 0411 500 11 0111 4110 4054 10 polit 10 00 0 20 V 15111 1 0 0 1							
Frequency band (MHz)	Max power		Antenna Gain		R	S	
2400-2483.5MHz	12.45dBm	17.57mW	4.9dBi	3.09	20cm	0.0108	



FCC ID: SU3-6560D IC:20969-6560D

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v06,

The sum of the MPE ratios = 0.0000125/1.0 + 0.0077/0.61 + 0.0108/1.0 + 0.0312/0.61 = 0.023

This level is below the simultaneous transmission MPE test exclusion requirements (≤ 1.0).

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Date of issue: June 09, 2016

Prepared by:

Reviewed by:

Jesse Xu (Project Engineer)

Daniel Zhao (Reviewer)



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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.