

# RF Exposure

FCC ID: 2ALBF-5004

## 1 INTRODUCTION

These calculations are based on the highest EIRP possible from the EUT considering maximum power. The highest output power of the EUT is 42.7 mW. The product is not hand held or body worn.

## 2 RF EXPOSURE PER FCC 1.1310

MHz	Max Power dBm	Max Ant Gain dBi	Duty Cycle %	EIRP Watts	(S) GP Limit mW/cm <sup>2</sup>	Declared Minimum separation Distance (cm)	EUT power Density mW/cm <sup>2</sup>	Result
903	16.1	2.2	100.0	0.0676	0.602	20.000	0.0134	Pass
915	16.3	2.2	100.0	0.0708	0.610	20.000	0.0141	Pass
927	16.2	2.2	100.0	0.0692	0.618	20.000	0.0138	Pass

Notes on the above table:

- S is the power density General Population Limit from FCC 1.1310 Table 1
- EIRP Power is the Peak Effective Radiated Power.  
$$\text{EIRP} = (\text{Average Conducted Power} + \text{Antenna gain}) * \text{Duty Cycle}.$$

### POWER DENSITY

Power density is given by:

$$S = \text{EIRP} / (4 * \pi * D^2)$$

Where

S = Power density in mW/cm<sup>2</sup>

EIRP = Equivalent Isotropic Radiated Power in mW

D = Separation distance in cm

Since the calculated power density is less than the limit, this product fully meets the OET 65 requirements for the general population.