RF Exposure Requirements for FCC ID: AL8-C05X

Requirements: §1.1307(b)(1) and §1.1307(b)(2): 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 levels in excess of the Commission's Guidelines.

Limits: §1.1310: As specified in this section, the Maximum Permissible Exposure (MPE) Limit

shall be used to evaluate the environmental impact to human exposure to radiofrequency (RF) radiation as specified in Sec 1.1307(b), except in the case of portable devices which

shall be evaluated according to the provisions of Sec. 2.1093 of this Chapter.

Limit for Uncontrolled exposure: 1 mW/cm² or 10 W/m²

MPE Calculation:

Equation from page 18 of OET 65, Edition 97-01

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

where, $S = Power Density (W/m^2)$

P = Power Input to antenna (18.1 dBm; 0.065Watts)

G = Antenna Gain, in numeric (3 dBi; 1.995 numeric)

R = distance to the center of radiation of the antenna (0.2 m)

 $S = 0.065W*1.995 / 4*3.14*(0.2m)^2 = 0.258 W/m^2$

EUT complies with 20cm distance exposure.