



## Maximum Permissible Exposure (MPE) Requirement

Applicant: TAGSMYTH LLC

Job Number / NEX #275504

Model Name: RangeTAG

Model Number: TS1-RNGT201

This document was prepared by Nemko-CCL on behalf of the applicant using data collected during testing and information provided by the applicant. The maximum power density requirements for the General Public (Uncontrolled Environment) listed in FCC Part 1.1310 & 2.1091 was used. The power density is calculated using the following equation.

$$P_d = \frac{P_t G^*}{4\pi r^2}$$

P<sub>d</sub> = power density in watts

P<sub>t</sub> = transmit power in milliwatts

G = numeric antenna gain

r = distance between body and transmitter in centimeters

\* P<sub>t</sub> G = EIRP

The calculated power density of the equipment listed in this application is shown below.

Max Transmit Power EIRP (mW):	41.4		
Operating Frequency (MHz):	914.76		
Min Operating Distance (cm):	20	Duty Cycle (%):	100
Power Density (mW/cm <sup>2</sup> ):		8.24E-03	
Limit (mW/cm <sup>2</sup> ):		6.10E-01	