

US Tech Test Report:  
FCC ID:  
Test Report Number:  
Issue Date:  
Customer:  
Model:

FCC Part 15 Certification  
2AD9R-CO1501  
15-0029  
February 13, 2015  
Controlant EHF  
CO 15.01

## Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm<sup>2</sup> at a distance, d, of 20 cm from the EUT.

Therefore, for:

**Measured maximum output power: 11.7 dBm**  
**Highest Gain Antenna (Monopole antenna) = -1 dBi**

Peak Power (Watts) = .015 (Manufacture's claimed highest output power)  
Gain of Transmit Antenna = -1 dBi = 0.79, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4A = (.015 * 0.79) / (4 * \pi * 0.2^2) \\ &= .012 / .5027 = .0238 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00238 \text{ mW/cm}^2 \end{aligned}$$

which is < less than 1.0 mW/cm<sup>2</sup>