

US Tech:
Client:
Issue Date:
Model:
FCC ID:
IC ID:

12-0237
RFM/Cirronet
05-03-2012
DNT90
HSW-DNT90
4492A-DNT90

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Chip Antenna= -1 dBi

Peak Power (Watts) = 0.162 (from Table 9 of Test Report)

Gain of Transmit Antenna = -1 dBi = 0.794, numeric (from Table 3 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4A = 0.162 (0.794) / 4 * \pi * 0.2 * 0.2 \\ &= 0.4585 / 0.503 = 0.2557 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.02557 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 0.61 mW/cm²