

U.S. Tech Test Report:
FCC ID:
Report Number:
Issue Date:
Customer:
Model:

FCC Part 90 Certification
Z7B-MOBILE49
11-0222
November 3, 2011
Novarum, Inc.
Novarum Mobile 49

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 Antenna= 6 dBi

Peak Power (Watts) = 0.195 (from Table 9 of Test Report)

Gain of Transmit Antenna = 6 dBi = 3.981, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4A = 0.195(3.981) / 4\pi * 0.2 * 0.2 \\ &= 0.7763 / 0.503 = 1.543 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.1543 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1 mW/cm²