ELECTRONIC COMPLIANCE
LABORATORIES, INC.
1249 BIRCHWOOD DRIVE
SUNNYVALE, CA 94089
408/747-1490
408/747-1495 (FAX)
800/707-LABS
www.eclabs.com
email: eclabs.com

June 30, 1999

Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Maximum Permissible Exsposure calculations for **FCC ID: EV9N2L5-7S1-01**

To whom it may concern,

Wireless, Inc. is submitting a low power transmitter for the NII Link. The unit operates in the 5.725 - 5.825 GHz range with a peak transmit power of with a radiated output power of 2.06 mW.

Assuming a worst case of no duty cycle.

For an Isotropic radiator the surface area of a sphere can be used to determine the area over which the transmitter energy is radiated.

Surface area of a sphere = $4*\Pi*\text{radius}^2$

In the case where there is antenna gain, the worst case energy density is increased by the antenna gain. The exposure level can be calculated as follows for the antenna gain:

MPE distance = (output power*duty cycle*10(antenna gain/10)/(4*Π*Exposure Limit (mW/cm^2)$^{1/2}$

EV9N2L5-7S1-01 MPE distance = $(2.06\ mW*1*28.5/4*314*1)^{1/2}$

= 2.16 cm
= 0.85 in

If you have any questions please do not hesitate to call me.

Sincerely,

Chip Matheny
Technical Officer