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Industry Canada

Attention: Reviewing Engineer

The **HP OminBook 6000 series** is a regular Laptop **with a built in 802.11b** radio card using spread spectrum technique for portable applications for wireless LAN access.

Due to the construction of the Laptop and the position of the antenna inside (it's placed at the lower end of the screen) which give a distance to the legs, if operated there, of in minimum 2.5 cm as well as to the fingers in normal operation. This will be

This information includes the following*: A minimum separation distance of 2.5 cm must be maintained between the antenna and the person for this device to satisfy the RF exposure requirements of the FCC.*

The maximum output power allowed for the Bluetooth radio is 100 mW.

Maximum EIRP of the equipment = 16.83 dBm (0.0482 W); equivalent to 48.1 V/m in 2.5 cm distance

Regarding MPE limits, GPUC environment limits maximum exposure to 1 $mW/cm^{2.}$

The power density at 0.2 meters from an antenna is:

$S = E^2/3770 = -13\ H^2 =$ **$0.6253\ mW/cm^2$** $< 1\ mW/cm^2$
Where: S = Power density ($mW/cm^{2)}$
E = electrical field strength (V/m)

Calculations are based on standard formula for calculating field strength at a distance and converting power density using free space impedance. Compliance is shown for the built in antenna.

If you should have any questions regarding this submission, please feel free to contact the undersigned.

Yours truly,

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