

Federal Communication Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Attention: Reviewing Engineer

The **Bluetooth Radio** is using spread spectrum technique for number of **handheld printers** to connect these to other Bluetooth enabled devices. The data provided and calculated are for the printer with the antenna with the highest EIRP.

Due to the construction of the printers and the location of the antennas inside these printers the distance to the body is at least 2.5 cm

A warning statement in the users documentations will be placed.

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 = **6.05dBm (4.03mW)** equivalent to 13.90 V/m in 2.5 cm distance

Regarding MPE limits, GPUC environment limits maximum exposure to 1 mW/cm².

The power density is:

at 2.5 centimeters from an antenna	$S = E^2 / 3770 = 13 \text{ H}^2 = \mathbf{0.0522 \text{ mW/cm}^2} < 1 \text{ mW/cm}^2$
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Where: S = Power density (mW/cm²)
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 module, which incorporates the antenna on board of the module even for the distance of 2.5 cm. A statement is included in the manual.

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

Yours truly,



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