

Certification Report on Compliance with Respect to FCC CFR 47, Para. 15.247 (b) 4

Para. 15.247 (b) 4: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

Para. 2.1093 (d)(2): Radiofrequency radiation exposure evaluation: portable devices.
Limits for General Population/Uncontrolled exposure: 0.08W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6W/kg as averaged over any 1 gram of tissue.

Product: Intersil HWB3163 Rev B4 WLAN PCMCIA

ENGINEERING SUMMARY

The Intersil HWB3163 Rev B4 WLAN Card uses the same antenna design (with maximum antenna gain of 2.5dBi) as a previously approved radio (FCC ID MRF13316C2) submitted by Celestica Corp. The Celestica MRF13316C2 radio was developed jointly with Intersil (previously Harris Corp.) based on the Prism I chip set. This design was subsequently purchased by Intersil for the Prism I reference design. The Prism II HWB3163 WLAN PCMCIA card is intended for use with Laptop computers and is therefore categorized as a portable device but NOT a device which is worn on the body.

SAR testing was performed on Celestica MRF13316C2 with the following results:

Peak Output Power:	153mW
Antenna Gain:	2.5dBi (multiply factor 1.78)
EIRP:	273mW
SAR Test Result:	0.29W/kg
SAR Limit:	1.6W/kg

The Intersil HWB3163 has the following characteristics:

Peak Output Power:	52mW
Antenna Gain:	2.5dBi (multiply factor 1.78)
EIRP:	93mW

Based on the significantly lower EIRP for the Intersil HWB3163 Rev B4, the same antenna design and the margin with which the Celestica radio passed the SAR test, therefore the HWB3163 complies with this requirement.

To the best of my knowledge and belief, the Prism II HWB3163 Rev B4 WLAN Radio (FCC ID: OSZ3163B1) fully complies with the limits and requirements set forth in FCC regulations Part 15.247 (b) 4 and paragraph 2.1093 d) (2).

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