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**To:** American TCB

**From:** Claire Hoque

**Attn:** Douglas E. Noble

**Date:** Apr. 24, 2006

Re: Intel Corporation, FCC ID: PD9WM3965ABG

Dear Douglas,

Please see our answer below.

- 1.) Internal photos need to show the back of the board as well as the front.  
Please revise internal photos.  
<answer> please see revised internal photos uploaded to ATCB today.
- 2.) The external photos also need to show all side of the EUT and all connection ports.  
Please revise external photos.  
<answer> please see revised external photos uploaded to ATCB today.
- 3.) MPE needs to show the antenna numerical gain and the mW power output.  
I have enclosed an attachment showing how this should be presented.  
You do not have to use this formula although it is the easiest. I do however recommend  
The table to look like the attachment showing the same fields. MPE has to be calculated  
to 20 cm distance. 802.11g with a power of 0.306 and a numerical antenna gain of 1.16  
at a distance of 20 cm would be .070 mW/cm<sup>2</sup>.  
Please revise MPE exhibit. Please see attachment.  
<answer>The formulas in the MPE exhibit are derived so as to provide a direct calculation  
of the Power Density S in mW/cm<sup>2</sup> as a function of the power in dBm and the antenna  
gain in dBi; this formula will yield the same results as the formulas that you presented in  
the sample format.  
The Power Density was calculated at a 20 cm distance. The power originally entered in the  
table was the wrong number and this typographical error has been corrected in the attached  
updated reports.
- 4.) I am also including some new guidelines from the FCC on testing DTS.  
<answer> Thanks.
- 5.) Please upload antenna exhibit with information concerning the antenna used in this filing.  
<answer> the antenna exhibit was already uploaded to ATCB on 4/17. As addressed in the  
reports, the radio utilizes external WLAN self standing dual band vertically polarized  
antenna with a 1.5m cable and a stripline connector, the maximum gain is 0.64 dBi in the  
2.4 GHz band and -2.05 in the 5.725 GHz band.

6.) The band edge plots should also show the same plot with the resolution bandwidth lowered to 10 Hz. The plots you have in spurious emission that are at 10Hz RBW should be included with the band edge plots.  
<answer>Please clarify the question and indicate exactly which plots are in error. We have reviewed the report and believe it is correct: the conducted spurious measurements were made with an RBW = 100 kHz, VBW > 100 kHz; the radiated bandedge measurements were made with RBW = VBW = 1 MHz for peak measurements and RBW = 1 MHz, VBW = 10 Hz for average measurements.

Thanks,

Claire Hoque  
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