

## Jennifer Sanchez

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**From:** Minh Ly  
**Sent:** Monday, January 11, 2010 9:53 AM  
**To:** Jennifer Sanchez; Anderson Soungpanya  
**Cc:** Jenn Warnell; Shawn McMillen  
**Subject:** RE: 2RT for 81748 Firetide - Part 15E

Hi Jennifer,

The Output power measurements are based on the 5dBi Omni Antenna. The unit is going to be "professional installed" so the output power will be adjusted with the appropriate antenna gain.

Regards,

**Minh Ly**  
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**From:** Jennifer Sanchez  
**Sent:** Monday, January 11, 2010 9:29 AM  
**To:** Minh Ly; Anderson Soungpanya  
**Cc:** Jennifer Sanchez; Jenn Warnell; Shawn McMillen  
**Subject:** 2RT for 81748 Firetide - Part 15E  
**Importance:** High

Hi Minh, Jenn and Anderson,

Please see the additional RT for the Part 15E of the 7200 Model.

Thanks!

**J. Sanchez**  
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**From:** Len Knight  
**Sent:** Monday, January 11, 2010 9:28 AM  
**To:** Jennifer Sanchez  
**Subject:** RT for 81748

The report states that the highest summed power is 22.78 dBm. The highest gain antenna used for testing was a 19 dBi sector antenna.

According to Part 15.407: (3) For the band 5.725–5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W or  $17 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz..... If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power or peak power spectral density.

The EUT is described as a point-to-point and point-to-multipoint device meaning that the fixed point-to-point exception would not qualify.

With a power of 22.78 dBm, the highest gain directional antenna allowed by the rule part would be 13 dBi unless it was demonstrated that the intended use was point-to-multipoint operation only.