

August 1, 2017

Office of Engineering and Technology

FCC Filing : O8PCAPSH-3

Gentlemen:

To answer your original question :

FCC response on 08/01/2017

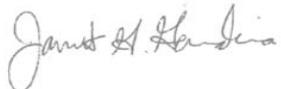
The formula used is now correct. However, where is the transmitted power of 2.15 mW derived from? This value does not correspond to any measured result in the test reports.

Rechecking with our colleagues overseas, we find that they have included the 'path loss' of a 3 meter site into their calculations of antenna gain. Consequently, the corrected antenna gain should instead be $(37\text{dBi} - 9.15\text{dB}) = 27.85\text{ dB}$ as the correct antenna gain.

Using the radiated emissions retest from TUV test report no 17011002.fcc001 we find peak power is approximately -42dBm. Adding the negative antenna gain combined with the 3M path loss shows a maximum conducted RF power delivered to the antenna terminals of -5dBm."

$$(-42\text{dBm}) - (-37\text{dB}) = -42\text{dBm} + 37\text{dB} = -5\text{dBm}$$

Sincerely,



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