

From: Paul Tupin

To: Behnam Ghaffari

Date: November 12, 2013

Subject: FCC File No. 0719-EX-PL-2013

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Message:

Dear Mr. Ghaffari:

Thanks for your quick response. The numbers and associated text used in my response below refer to those items in your original email.

1. Please justify the need for 200 devices versus 50 devices.

i4C RESPONSE: Please revise the number of units from 200 to 50. We intend to build and field no more than 50 units for this testing.

2. Are you requesting to perform a limited market study?

i4C RESPONSE: Not at this time. The tests covered by this application will be used in support of prototype development and to validate the ability of the core UWB technology to collect basic animal physiology data.

3. Will all of the experimental devices be retrieved by i4C Innovations Inc. from the participants upon completion of this experiment?

i4C RESPONSE: Yes, all devices will be retrieved by i4C at the conclusion of these tests.

4. The requested bandwidth 5 GHz is greater than the frequency band 3.1-8 GHz (4.9 GHz) on the application. Please correct this accordingly.

i4C RESPONSE: The 10dB bandwidth of the device will be within the 3.1GHz to 8 GHz frequency range.

5. In accordance with the FCC CFR 47, Part 15.513, the requested ERP of 1 mW is greater than what can be authorized under the rule (3100-10600 MHz = -41.3 dBm ~ 74 nW). Please justify 1 mW ERP.

i4C RESPONSE: I believe the FCC CFR 47, Part 15.513 maximum average power of -41.3dBm is referenced to a 1MHz resolution bandwidth. Given the 4.9GHz bandwidth described in question 4 above, this would equate to a maximum total average power of -41.3dBm + 36.9dB (10 log 4900MHz/1MHz) or -4.4dBm total average power. Do you agree with this interpretation?

Sincerely,

Paul Tupin  
Director of Product Development  
i4C Innovations