



December 7, 2010

Federal Communication Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Re: Class Permissive II Change Application for FCC ID: N7NMC8355

To whom it may concern

Sierra Wireless Multi-band Radio Module Model: MC8355 (FCC ID: N7NMC8355) have Modular Approval which stated that his antenna shall not collocated with other transmitting antennas close then 20 cm and if it is happened additional evaluation shall be needed.

In case, when this device has been integrated within X-3100 smart grid node, his antenna collocated with antennas from Qcom 802.11 b/g/n PCI Express Mini Card Model: Q802XKN (FCC ID: RUJ-Q802XKN) with distance between them less than 20 cm. All antennas connected to these cards are PIFA type and have the following peak gain characteristics (cable loss included):

- MC8355 TX/RX antenna: 1.4 dBi in frequency band 824.2 – 848.8 MHz and 3.4 dBi in frequency band 1850.2 – 1909.8 MHz
- Q802XKN TX/RX antenna: 2.6 dBi in the frequency band 2400 – 2500 MHz.

Therefore, according FCC Rules, Ambient Corporation submit Application for Approval of the collocation for these antennas for distance less than 20cm for FCC ID: N7NMC8355 as Class II Permissive Change. Application included:

- Sierra Wireless Authorization Letter
- MPE calculation for the case when MC8355 module TX/RX antenna collocated with Q802XKN card antenna
- Form 731

Aron Viner
Vice President Compliance & Standardization
Ambient Corporation
Phone: 617 614 6729
E-mail: aron.viner@ambientcorp.com