Mike Kuo

To: Danielle Zhan
Subject: RE: Buffalo Inc., FCC ID: FDI-09101841-0, Assessment NO.: AN05T4907, Notice#1

To: Mike Kuo
Cc: Michael Heckrotte; Kathy Yao; Sunny Shih
Subject: RE: Buffalo Inc., FCC ID: FDI-09101841-0, Assessment NO.: AN05T4907, Notice#1

Hi Mike,

Below please find responses to your question in blue.

Thank you for your review.

Danielle Zhan

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-----Original Message-----
From: Compliance Certification Services [mailto:mike.kuo@ccsemc.com]
Sent: Thursday, June 30, 2005 4:06 PM
To: Mike Kuo
Subject: Buffalo Inc., FCC ID: FDI-09101841-0, Assessment NO.: AN05T4907, Notice#1

Question #1: Page 36 of user manual indicated that this cardbus must be installed to provide 20 cm separation distance to the end user. Based upon the description contains in the user manual, the primary function for this cardbus is to be used with notebook computer. When cardbus card installed in the notebook computer, while at lap held position, the separation distance between the cardbus to the user is less than 20 cm. Please revise the RF exposure statement and take into account that when external antenna is used, the separation distance shall be at least 20 cm; when it is used with integral antenna with notebook computer, the separation distance is not required.
[Danielle] Please find revised user manual that addresses the question.

<< File: WLI-CB-G54HP-Manual_R.pdf >>

Question #2: Page 12 of DTS report, the measured 6dB bandwidth has wrong unit, please make necessary correction.
[Danielle] Report revised as attached.

<< File: 05I3515-1 FCC DTS Report_Revised.pdf >>

Question #3 : When the external antenna is connected to the cardbus card, will the internal antenna also acted as transmitting antenna ? If not, please provide engineering justification to support it.
[Danielle] See revised Theory of Operation that addresses the question.

<< File: technical_description_Revised.pdf >>

SAR portion
Question #4: during G mode investigation, the duty cycle is 65%. Based upon FCC SAR evaluation guideline, for typical 802.11x device, a near 100 % duty cycle is expected. If the device can not achieve near 100 % duty cycle, tests must be performed to determine output linearity at the intended maximum duty factor for linear operations and half of the maximum duty factor.
[Danielle] Additional SAR evaluation performed with result as attached.

<< File: SAR vs Duty cycle.pdf >>

Best Regards

Mike Kuo

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.