

## Lucy Tsai

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**From:** aven.zhou [aven.zhou@cn.ccsemc.com]  
**Sent:** Tuesday, May 13, 2008 6:47 PM  
**To:** Lucy Tsai  
**Cc:** tillying@gmail.com  
**Subject:** Re:RE: FW: Chung Nam Electronics Co., Ltd., FCC ID: Q72WLC123NR, Assessment NO.: AN08T7823, Notice#1-revised  
**Attachments:** Request for Modular Approval per section 15.212 requirements.doc; SZ071122B01-RP\_0512.pdf; Request for Modular Approval per section 15.212 requirements.pdf

Dear Lucy,

Please refer to below for the answers.

If there is any question, please contact me without hesitation!

Thanks & Best regards!

Aven.zhou (Miss) / 周 中 平

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2008-04-11 23:02

收件人 : "aven.zhou" <[aven.zhou@cn.ccsemc.com](mailto:aven.zhou@cn.ccsemc.com)>  
副本抄送:  
主旨: FW: Chung Nam Electronics Co., Ltd., FCC ID: Q72WLC123NR, Assessment NO.: AN08T7823, Notice#1

Hi Aven,

Please address following issues.

Q#1: According to the operational description, this MIMO card should be 2x3 MIMO, please confirm firstly. Besides, is this spatial multiplexed MIMO? Are the chains driven coherently?

<Aven> Yes, the Mini card is 2x3 MIMO. Yes, the card is spatial multiplexed and the chains driven coherently.

Q#2: Per FCC rule, mini-PCI card is also classified as PC peripheral. But there has no FCC DOC logo nor a separate FCC filing under equipment code of JBP is submitted. Please address. If FCC DOC rule is followed, then please provide a attestation letter from the grantee to state where the FCC DOC report was done with the reference report no.

<Aven> The attached is the revised label and attestation letter.

Q#3: The block diagram indicated in page 9 of schematics is 3x3 but not 2x3, please clarify.

<Aven> The updated schematics is attached.

Q#4: As indicated in test setup photos, only two antennas are connected during the radiated emission test which doesn't acceptable since this is a 2x3 MIMO device. Please re-do the radiated spurious and harmonic tests for 802.11bg / MIMO/20 & 40 MHz and make sure that RX has also been enable. As for radiated band edge test in MIMO mode, please confirm if three antenna have been connected during the test. If not, please re-do the test as well.

Noted that in testing b and g mode for radiated emission and harmonic tests, no need to conduct each chain.

<Aven> Except original test with separate chain in b/g/MIMO mode, we have did additional test in bg mode and MIMO modes with enabled all antennas on.

Q#5: Page 19 of test report should be the middle channel test plot for 6dB BW for 40MHz mimo mode, but the plot attached is the low channel. Please correct.

<Aven> Please see the revised report.(P10,19)

Q#6: Output power for b mode high channel indicated in page 21 doesn't agree with the test plot behind. Please correct.

<Aven> Please see the revised report.(P21)

Q#7:For MIMO device to test power spectral density and conducted emission, except each TXchain must be measured, additionally to measure with a combiner is also required. Please provide.

<Aven> Please see the revised report.(P34-35,45-50,70-81)

Best Regards,

Lucy

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.