

## Chris Harvey

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**From:** Christine Vu [christine.vu@ccsemc.com]  
**Sent:** Tuesday, August 19, 2008 6:32 PM  
**To:** Chris Harvey  
**Cc:** Mike Kuo  
**Subject:** FW: ATHEROS COMMUNICATIONS, INC., FCC ID: PPD-AR5BHB92-D, Assessment NO.: AN08T8222 & AN08T8223, Notice#1 08U12007  
**Attachments:** HB92Antenna ColoInfoRequest0718 (3).xls

Hi Chris:

See the client's (CY) response below inline of your email. Hopefully this has addressed the reviewer's question. Pls confirm. Thanks, CK

You are listed as the Technical Contact for the above referenced TCB application. The following item(s) need(s) to be resolved before the review can be continued:

This application documents that there are 5 Dell Host computers into which this WLAN (2x2 MIMO) module will be installed, indicating that the installations will maintain a 20 cm separation between the antennas and the user's body. However in the AT4 Wireless MPE report (for platform Jolie), the MIMO antenna (presumed to be for this transmitter) is only 27.82mm (2.782cm) from the bottom of the laptop, which would require SAR compliance. There are lists of the possible co-location transmitters that can also be installed in each of the host computers.

**CY: AR5BHB92 is 2x2 radio, and only main and aux antennas are connected. MiMO antenna is not used to connect the radio device.**

3 MPE reports have been submitted, one for Platform Jolie (PP17S), one for Platform Hepburn (PP33L) and one for Platform Pacino (PP31L). No documentation has been submitted for Platforms Paltrow (PP35L) and Diaz (PP24L).

The Dell Cover Letter does not list the BT365 radio FCC ID: QDS-BRCM1033 as an option, but the list on the Antenna Co-location table lists this radio as the highest power Bluetooth radio installed in these platforms.

**CY: Please advise where BT365 was mentioned. I think we listed BT370 as the highest power BT, didn't we? see attached. Since only one of each BT or WWAN/UWB will be use in a platform, not all, we use the report that represented the highest power of each WWAN and BT/UWB with a WLAN card of higher power than that of HB92 for assessment As a resule, once the calculation is good, it covers all.**

It is not clearly stated that all 5 host platforms will use each of these simultaneously transmitting antennas in 'Mobile RF Exposure' configurations. If there is a mixture of Mobile and Portable transmitters, this has not been addressed in this application.

**CY: This application intends to address only co-location concern Except for Diaz, all WLAN main/aux antennas of all platforms are on top rim of the screen with more than 20cm to human body. of mobile configuration. Diaz has already been evaluated for portable configuration. with approval grant. Please attached the Diaz grant if you feel necessary.**

Please clarify the antenna locations with respect to each other and the user for each of these platforms (typically submitted as a photograph with graphics overlay or by drawing). Please submit documentation in accordance with FCC KDB 447498, Mobile and Portable RF Exposure, that clearly shows RF Exposure compliance for the co-located, simultaneous transmitting antennas.

8/19/2008

CY: All antenna location info are on the submitted datasheets.

-----Original Message-----

**From:** Caroline Yu [mailto:caroline.yu@Atheros.com]

**Sent:** Tuesday, August 19, 2008 3:00 PM

**To:** Christine Vu

**Subject:** RE: ATHEROS COMMUNICATIONS, INC., FCC ID: PPD-AR5BHB92-D, Assessment NO.: AN08T8222 & AN08T8223, Notice#1 08U12007

Chris:

See my response below inline of your email:

I hope this has addressed the reviewer's question.

Thanks

Caroline Yu  
Atheros Communications  
5480 Great America Parkway  
Santa Clara, CA 95051  
USA

+1 (408) 830 5751

-----Original Message-----

**From:** Christine Vu [mailto:christine.vu@ccsemc.com]

**Sent:** Tuesday, August 19, 2008 2:25 PM

**To:** Caroline Yu

**Subject:** FW: ATHEROS COMMUNICATIONS, INC., FCC ID: PPD-AR5BHB92-D, Assessment NO.: AN08T8222 & AN08T8223, Notice#1 08U12007

**Importance:** High

Hi CY:

Please address and reply the TCB questions below. Thanks, CK

You are listed as the Technical Contact for the above referenced TCB application. The following item(s) need(s) to be resolved before the review can be continued:

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8/19/2008

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CY: All antenna location info are on the submitted datasheets.

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.