

---

**From:** SunHee Kim (HCT)  
**Sent:** Wednesday, September 03, 2008 6:06 AM  
**To:** PCTEST TCB  
**Subject:** Re: Questions Regarding FCC ID: BEJKC910Q  
Dear Gregory,

Thank you for your cooperation on our project.  
We attached the revised documents and replies are embedded below your questions.  
If you have any further questions, please let me know.

Best Regards,  
Sun-Hee Kim

=====

Ms. SunHee Kim

Engineer, Product Compliance Division  
HCT Co.,Ltd

=====

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

**To:** [PCTEST - Gregory Czumak](#)  
**Sent:** Monday, September 01, 2008 10:11 PM  
**Subject:** Re: Questions Regarding FCC ID: BEJKC910Q

Hello Gregory,

Thank you for your help as always.  
I have some inquiries for the SAR measurement.

According to the revised KDB 648474 May 2008, we made an additional diagram showing the peak SAR location.  
Please find the attachment file.

We calculated the distance between GSM peak SAR location and WLAN peak SAR location using the grid distance.  
I think we can get the distance without overlapping if we know the vertical and horizontal coordinates gap.

If there is any other method to get the distance, could you explain to me?  
I hope the attachment file is sufficient to review.

If you have any comments, please let me know.

Best Regards,  
SunHee Kim

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

**From:** [PCTEST TCB](#)  
**Sent:** Saturday, August 30, 2008 4:24 AM

**Subject:** Questions Regarding FCC ID: BEJKC910Q

To: Ms. Sun-Hee Kim / HCT  
From: Mr. Gregory Czumak/ PCTEST TCB

RE: FCC ID: BEJKC910Q

Applicant: LG Electronics Inc.

Correspondence Reference Number: BEJ80771  
Confirmation Number: 808260771-75  
Date of Original Email: August 29, 2008

Subject: Request for additional information

In regards to your recent TCB application referenced above, we kindly request that you provide the following additional information.

1. Please confirm that the 850GSM ERP on the low channel is more than 5 dB lower than the high channel ERP.
2. 1900EDGE conducted output power levels are approximately 4 dB lower than the corresponding 1900GSM levels. However, 1900EDGE EIRP is listed as being higher than the 1900GSM EIRP on the same channel. Please explain.
3. Please remeasure both 850EDGE ERP and 1900EDGE EIRP on the channels that produced the highest GSM ERP/EIRP levels and submit new data.  
==> As for your questions #1-3;  
We retested the ERP/ EIRP in GSM and EDGE portion.  
Please find the attached revised RF Test Report on page 1, 3, 14 and 15.
4. The conducted output power levels listed on pp.12-13 of the 22/24 EMC report show 850GSM and 1900GSM about 6dB and 4dB, respectively, higher than the corresponding EDGE levels, however, the bandedge plots on pp.28-32 show the levels of the EDGE emissions as being approximately equal to the levels of the GSM emissions. Please explain how this can be.  
==> We retested the Block EDGE testing in 850EDGE and 1900EDGE mode.  
Please find the attached revised RF Test Report on page 28-32.
5. The WCDMA ERP listed on pp.1 and 3 of the EMC report is incorrect: 21.35 dBm = 0.136W, and not 0.140W. Please revise.  
==> Please find the revised Test Report.
6. The 1900GSM emission designator listed on pp.1 and 3 of the EMC report is incorrect- it should be 248GXW. Please revise.  
==> We revised the emission designator.

7. Page 1 of the WLAN report lists the test date as 8/14/08, but p.3 lists it as 7/23/08. Please clarify and revise.  
==> Please find the revised WLAN Test Report.
8. The 20 dBc bandwidth of the Bluetooth emission on one channel is greater than 1 MHz. Please remeasure output power on that channel with RBW > 20 dBc bw and submit new data.  
==> Please find the revised BT Test Report on page 14.
9. Because the summation of stand-alone WLAN SAR and 850GSM body SAR exceeds 1.6 W/kg, please provide diagrams showing the distance between peak SAR locations, and apply the SAR-to-peak location-separation ratio test to determine if a simultaneous SAR test is required, pursuant to FCC requirements (please note that a simultaneous SAR test must be submitted to the FCC directly for review and approval).  
==> We already submit the additional file showing the distance between GSM and WLAN peak SAR locations.  
If you need more coordination, please let me know.
10. Can the BT and WLAN transmit simultaneously? If so, a simultaneous SAR test is required.  
==> The BT and WLAN cannot transmit simultaneously.
11. Please confirm that WLAN body SAR was measured with 0 spacing, as shown on p.31/119.  
==> We confirm that WLAN Body SAR was measured with 0 cm spacing.
12. FYI: the antenna location photo should label the antennas shown.

The items indicated above must be submitted before processing can continue on the above referenced application.

Sincerely,

Gregory Czumak  
Senior Certification Engineer  
Quality Manager

PCTEST Engineering Laboratory, Inc.  
6660-B Dobbin Road  
Columbia, MD 21045  
410-290-6652  
410-290-6654 (Fax)  
[gregory@pctestlab.com](mailto:gregory@pctestlab.com)

This communication and its attachments contain information from PCTEST Engineering Laboratory, Inc., and is intended for the exclusive use of the recipient (s) named above. It may contain information that is confidential and/or legally privileged. Any unauthorized use that may compromise that confidentiality via distribution or disclosure is prohibited. Please notify the sender immediately if you receive this communication in error, and delete it from your computer system. Usage of PCTEST email addresses for non-business related activities is strictly prohibited. No warranty is made that the e-mail or attachment(s) are free from computer virus or other defect. Thank you.