

PCTEST-TCB

From: Sung Ryul Kim [bamba2k@estech.co.kr]
Sent: Wednesday, November 01, 2006 6:39 AM
To: 'PCTEST TCB'
Cc: 'PCTEST - Al Cirwithian'; 'PCTEST - Gregory Czumak'; 'PCTEST - Mia Kang'; 'PCTEST - Randy Ortanez'; 'Channy Park'
Subject: RE: Questions Regarding FCC ID: BEJKE850

Hello Gregory,

Please refer to the below answer for comments.
 And check it, if you have any question, let me know.

Thanks.

SUNG RYUL KIM

Estech Co., Ltd.

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International Test Laboratory for EMC /Safety /Telecom

From: PCTEST TCB [mailto:pctesttcb@pctestlab.com]
Sent: Wednesday, November 01, 2006 7:49 AM
To: bamba2k@estech.co.kr
Cc: PCTEST - Al Cirwithian; PCTEST - Gregory Czumak; PCTEST - Mia Kang; PCTEST - Randy Ortanez
Subject: Questions Regarding FCC ID: BEJKE850

To: Mr. Sung-Ryul Kim / ESTECH Co., Ltd.
 From: Mr. Gregory Czumak / PCTEST TCB

RE: FCC ID: BEJKE850

Applicant: LG Electronics Co., Ltd.

Correspondence Reference Number: BEJ0694
 Confirmation Number: 16102600693/0695

Date of Original Email: October 30, 2006

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 address the following 4 requirements for frequency hopping spread spectrum transmitters (Bluetooth) from Section 15.247(a)(1):
 - a. Is the hopping sequence pseudorandom? **Yes. Pseudo randomly**
 - b. Are all channels used equally on average? **Yes.**
 - c. Does the receiver input bandwidth approximately equal the transmit bandwidth? **Yes. Approximately equal to the transmitted signal's bandwidth.**
 - d. Does the receiver hop in sequence with the transmit signal? **Yes.**
2. Please address Sections 15.247(g) and (h) for the Bluetooth transmitter.
3. The Operational Description lists EDGE functionality. Is EDGE available to the EUT? If so, please provide conducted output power, EIRP, occupied bandwidth and conducted bandedge measurement data in the EDGE mode. **→ Yes. The device supports the EDGE function. We will test the EUT with EDGE mode, and then provide test data.**
4. Please provide the FCC ID of the support equipment used to perform the Part 15B tests, or indicate DoC. **→ They have been approved through DoC.**
5. Pages 3 and 23 of the SAR report list the GPRS output power as 33 dBm. If this is correct, please perform all of the required Part 24E EMC tests in that mode, and submit the additional data. **→ We measured the GPRS output power with power meter, and because the duty cycle of GPRS is 4.15, we set it up with 4.15. Therefore, we got the output power with 33dBm. If it was wrong, please advise me for that.**
6. Because the Head touch SAR results are less than 3 dB below the limit for the middle channel, please provide the low and hi channel data as well. **→ The Max SAR value is 1.24W/kg, please explain to me in detail what are you saying.**
7. Please submit head SAR data with the Bluetooth active on the channel and configuration that produced the highest SAR result without the Bluetooth- in this case, ch661 right head tilt. If a retest is required, please provide full details (validation data, liquid parameters, etc.). **→ I uploaded the revised test report on your website.**
8. A Duty Cycle of 1:8.3 is listed on the GPRS body SAR data page. If multi-slot GPRS operation is available, then the duty cycle must reflect this. I note that the Operational Description lists Class 12... if this is available, the duty cycle would be 1:2. Please submit new data using the appropriate duty cycle. The items indicated above must be submitted before processing can continue on the above referenced application. **→ The multi-slot GPRS operation is available, but it is just Class 10, not Class 12. So, we measured the EUT with multi-slot GPRS operation mode. ("GSM Body SAR 661, page 23)**

Sincerely,

Gregory Czumak
Quality Manager
Senior Certification Engineer

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