

Chris Harvey

From: Loh, Grace (Gunpo) [Grace.Loh@sgs.com]
Sent: Wednesday, September 01, 2010 12:41 AM
To: charvey-tcb@ccsemc.com
Cc: chris.harvey@ccsemc.com; lucy.tsai@ccsemc.com; Kim, Raymond (Gunpo); Jeong, Feel (Gunpo)
Subject: RE: LG Electronics Inc., FCC ID: BEJE900, Assessment NO.: AN10T0810-0813, Notice#1

Dear Chris,

Pls refer to the comment as below.

3. The RF and SAR reports show the MPR power reduction measurements that deviate from the 3GPP expected reductions of 0,2,1,2,0 dB over the 5 subsets. Please provide an explanation for the deviation from the expected MPR values.

The reason of different result on 34.121 5.2B TC can be explained by enhanced MPR.

E-MPR algorithm is E-DPDCH power Scaling is considered on MPR calculation. The MPR values of 34.121 5.2B TC doesn't consider E-DPDCH power scaling which is mandatory by 25.214 section 5.1.2.5. Expected MPR values by Spec might be slightly different than the actual transmitted waveform after E_DPDCH power scaling.

The cubic metric value for the actual transmitted waveform after E-DPDCH scaling is quite different than that original expected waveform by table C.11.1.3 of 34.121. So MPR estimation will be different. The MPR value for the original transmitted waveform with Bed/Bc ($Bed = 56/75$, giving $Bed/Bc = 84/15$) = 84/15 is 2 dB in step4 , but after E-DPDCH was scaled down to 53/15 the MPR value became 1 dB according to cubic metric for example.

MPR definition in the Spec gives an upper for possible power reduction. The max power reduction of nominal max power is 2 dB rather than strictly 2 dB reduction. This is according to the definition of MPR in 25.101 section 6.2.2.

We're working on application note for this issue.

Grace Loh/ 노 윤 정

Wireless Division

Section Chief/ 과장

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From: Loh, Grace (Gunpo)

Sent: Wednesday, September 01, 2010 10:48 AM

9/1/2010

To: 'charvey-tcb@ccsemc.com'

Cc: chris.harvey@ccsemc.com; lucy.tsai@ccsemc.com; Kim, Raymond (Gunpo); Jeong, Feel (Gunpo)

Subject: RE: LG Electronics Inc., FCC ID: BEJE900, Assessment NO.: AN10T0810-0813, Notice#1

Dear Chris,

I submit to the the WLAN operation description and revised to the operational description for headset.

Pls refer to the page 13 for operational description for headset. .

I will send the output power for Radio test report & SAR test report soon.

I confirming to the client.

Thanks,

Grace

Grace Loh/ 노 윤 정

Wireless Division

Section Chief/ 과장

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

From: charvey-tcb@ccsemc.com [mailto:charvey-tcb@ccsemc.com]

Sent: Wednesday, September 01, 2010 3:08 AM

To: Jeong, Feel (Gunpo); Loh, Grace (Gunpo)

Cc: chris.harvey@ccsemc.com; lucy.tsai@ccsemc.com

Subject: LG Electronics Inc., FCC ID: BEJE900, Assessment NO.: AN10T0810-0813, Notice#1

Dear Feel and Grace,

You are listed as the Technical Contacts for the above referenced TCB application.

9/1/2010

The following items need to be resolved before the review can be continued:

1. Please provide an Operational Description exhibit that describes the WLAN (DTS) operation of this device. The exhibit uploaded for the WLAN application is the general handset description, and does not contain WLAN specific information.
2. The Operational Description exhibit for the Handset application lists a WCDMA-850 band on page 13. Please confirm if this device utilizes WCDMA-850 MHz band and correct exhibits as needed.
3. The RF and SAR reports show the MPR power reduction measurements that deviate from the 3GPP expected reductions of 0,2,1,2,0 dB over the 5 subsets. Please provide an explanation for the deviation from the expected MPR values.

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.

Revised documentation should not be emailed, but instead should be submitted through "Add Attachment" function at the UL-CCS website. Please have your Assessment Number and FCC ID/IC Certification number handy. You may use the following link:

<https://cert.ccsemc.com/filing/>

Best regards,

Chris Harvey

Charvey-tcb@ccsemc.com

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9/1/2010