
From: 한상진
Sent: Friday, May 28, 2010 12:46 PM
To: Mark Czumak
Subject: Re : RE: Follow-up Questions Regarding FCC ID: BEJLTTMU10 _ 5-27-10

Dear Mr. Mark Czumak,

Thanks for your response, and I added the below comment to the user manual in 5 page.

"In order to comply with FCC RFx requirements, the EUT must be installed such that there is a minimum separation distance of 20 cm between the antenna and all persons during normal operation. The maximum cellular gain cannot exceed 9.72 dBi and the PCS antenna gain cannot exceed 7.73 dBi."

Please refer to the attached file.

Thank you.
Best regards,
Sangjin Han

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

From : "Mark Czumak"
To : 한상진 선임연구원, 'PCTEST TCB/CB'
Date : 10/5/28 6:56:27
Subject : RE: Follow-up Questions Regarding FCC ID: BEJLTTMU10 _ 5-27-10

Dear Mr. Han,

Thank you for your response. In order to enable us to complete our review of the application and issue the grant, please add the following statement to the Users Manual and return:

"In order to comply with FCC RFx requirements, the EUT must be installed such that there is a minimum separation distance of 20 cm between the antenna and all persons during normal operation. The maximum cellular gain cannot exceed 9.72 dBi and the PCS antenna gain cannot exceed 7.73 dBi."

Thank you,
Mark Czumak
PCTEST Certification Engineer

From: Sangjin Han

Sent: Thursday, May 27, 2010 5:01 PM

To: 'PCTEST TCB/CB'; 'Mark Czumak'

Subject: RE: Follow-up Questions Regarding FCC ID: BEJLTTMU10 _ 5-27-10

Dear Mr. Mark Czumak,

Thanks for your kind response, and I'd like to send the revised document.

I revised the Tune-up procedure_v1.0.doc and Operational Description LT-10MCGVH_v1.0.doc., which contained the comment

"The conducted powers are Cellular: 24.76 dBm and PCS: 25.27 dBm. Per the MPE Test Report the maximum Cellular gain cannot exceed 9.72 dBi and the PCS antenna gain cannot exceed 7.73 dBi."

Please refer to the attached file.

And, would you please let me know the FCC grant until 5/28 (original target date)?

Thank you.

Best regards,

Sangjin Han

From: PCTEST TCB/CB

Sent: Friday, May 28, 2010 2:14 AM

To: '한상진'

Subject: RE: Follow-up Questions Regarding FCC ID: BEJLTTMU10 _ 5-27-10

Dear Mr. Han,

Thank you for your email. Follow-up questions below:

1. The conducted powers are Cellular: 24.76 dBm, PCS: 25.27 dBm. Per the MPE Test Report the maximum Cellular gain cannot exceed 9.72 dBi and the PCS antenna gain cannot exceed 7.73 dBi. Please revise the document to include the actual test result numbers.

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

Sincerely,

PCTEST TCB

From: 한상진

Sent: Wednesday, May 26, 2010 3:39 PM

To: PCTEST TCB/CB

Subject: Re : Follow-up Questions Regarding FCC ID: BEJLTTMU10 (MODIFIED)

Dear Mr. Mark Czumak,

Thanks for your comment, and I'd like to reply for you comments.

1. The maximum antenna gains listed under the RF Exposure section in the FCC Information document do not match what is provided in the MPE test report. Use of maximum gains listed in the manual could yield potentially non-compliant results. Please revise the document to include the actual test result numbers.

→ In fact, I don't know what is the measurement value in the MPE test report.

Would you please let me know maximum conducted power both DCN and PCS?

2. Pursuant to Part 15.103 of CFR Title 47, digital devices are exempt from Part 15 authorization requirements. Therefore, please remove the 15.19 and 15.21 statements from the FCC Information document so that they will not be placed in the users manual.

→ I am sorry, and I removed 15.19 and 15.21 statements comment.

Please refer to the attached file.

Your prompt response will be highly appreciated.

Thank you.

Best regards,

Sangjin Han

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

From : "PCTEST TCB/CB"

To : 한상진 선임연구원

Date : 10/5/27 2:59:45

Subject : Follow-up Questions Regarding FCC ID: BEJLTTMU10 (MODIFIED)

Dear Mr. Han,

Thank you for your email. Follow-up questions below:

1. The maximum antenna gains listed under the RF Exposure section in the FCC Information document do **not** match what is provided in the MPE test report. Use of maximum gains listed in the manual could yield potentially non-compliant results. Please revise the document to include the actual test result numbers.

2. Pursuant to Part 15.103 of CFR Title 47, digital devices are exempt from Part 15 authorization requirements. Therefore, please remove the 15.19 and 15.21 statements from the FCC Information document so that they will not be placed in the users manual.

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

Sincerely,

Mark Czumak
Certification Engineer

From: Sangjin Han
Sent: Monday, May 24, 2010 9:24 PM
To: 'PCTEST TCB/CB'; 'PCTEST - Gregory Czumak'
Subject: RE: Questions Regarding FCC ID: BEJLTTMU10

Dear Mr. Mark Czumak,

Thank you for your information, and I'd like to reply for you comments.

1. The QSC6055 portion of the block diagram has three unlabeled oscillators.
Please resubmit listing the values of all clocks and oscillators.
→ I have updated block diagram with listing of thress oscillators
There are 32.768kHz sleep crystal and 19.2MHz TCXO in QSC6055.
And GSC3e Sirf IC have one 32.768kHz RTC.
2. The Tune-up procedure does not include conducted power target ranges.
Please revise to include the maximum powers and tolerances per band.
→ Conducted maximum power : Under 25dBm both DCN and PCS band.
I have added this comment
3. The X201 crystal oscillator on page 2 of the schematic diagrams does not have a frequency listed.
Please revise to include the oscillator frequency.
→ I have updated X201 (32.768kHz) crystal in block diagram and schematics
4. The X402 crystal oscillator on page 4 of the schematic diagrams does not have a frequency listed.
Please revise to include the oscillator frequency.
→ I have updated X402 (32.768kHz) crystal in block diagram and schematics
5. The installation guide must instruct the installer that in order to comply with FCC RFx requirements, the EUT must be installed such that there is a minimum separation distance of 20 cm between the antenna and all persons during normal operation. Please revise.
→ I have updated for FCP information.doc file

If you have any questions, please let me know.

Thank you.
Best regards,
Sangjin Han

From: PCTEST TCB/CB
Sent: Tuesday, May 25, 2010 4:15 AM
To: LGE TELEMATICS - Sangjin Han

Subject: FW: Questions Regarding FCC ID: BEJLTTMU10

To: Mr. Sangjin Han / LG Electronics Inc.
From: Mr. Mark Czumak / PCTEST TCB

RE: FCC ID: BEJLTTMU10

Applicant: LG Electronics Inc.

Correspondence Reference Number: BEJ100556
Confirmation Number: 1Y1005070556
Date of Original Email: May 24, 2010

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. The QSC6055 portion of the block diagram has three unlabeled oscillators. Please resubmit listing the values of all clocks and oscillators.
2. The Tune-up procedure does not include conducted power target ranges. Please revise to include the maximum powers and tolerances per band.
3. The X201 crystal oscillator on page 2 of the schematic diagrams does not have a frequency listed. Please revise to include the oscillator frequency.
4. The X402 crystal oscillator on page 4 of the schematic diagrams does not have a frequency listed. Please revise to include the oscillator frequency.
5. The installation guide must instruct the installer that in order to comply with FCC RFx requirements, the EUT must be installed such that there is a minimum separation distance of 20 cm between the antenna and all persons during normal operation. Please revise.

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

Sincerely,

Mark Czumak
Certification Engineer

PCTEST Engineering Laboratory, Inc.

6660-B Dobbin Road

Columbia, MD 21045

410-290-6652

410-290-6654 (Fax)

mczumak@pctestlab.com

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