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**Subject:** Re: Questions Regarding FCC ID: A3LSWLN01

**Attachments:** EUT\_schematic.pdf; SWLN01USERMANUAL (revised version).doc; Antenna description.doc; HOW TO ASSEMBEL A3LSWLN01 MODULE.doc; Part15 subpart E Section15.407 Test Report(revised version).pdf

**From:** SUNGJOO KIM [mailto:sungjoo.kim@samsung.com]

**Sent:** Thursday, August 23, 2007 7:38 PM

**To:** Gregory Czumak

**Cc:** ???; randy; mia@pctestlab.com; channy@pctestlab.com; steve@pctestlab.com; ???; ???; ???; ???

**Subject:** Re: Fw: Questions Regarding FCC ID: A3LSWLN01

Dear Greg,

How have you been?

I'm sorry to you late response regard your additional requests for this FCC ID.

According to your requests for correction, we prepared answer and verification documents as attached for 9 items.

Please refer to the below comments and attached files!

1. Please submit schematic diagrams for the EUT.  
(ANS) [Please refer to attached #1 \(Schemetic diagram\)](#)
3. Please resubmit the user's manual, including the language required by Sections 15.19 and 15.21.  
(ANS) [Please refer to revised User's Manual as attached #2.](#)
4. The EUT's antennas are referred to, in the application, as "integral", however, various cable lengths are then listed. Please provide a more detailed description of

the antennas (make, model, etc.), and address Section 15.203 with respect to the antenna connectors.

(ANS) Please refer to the detailed description of the Antennas as attached #3.

5. To whom will the EUT be marketed? Typically, such devices are limited to sale to OEM integrators only- is that the case here? If so, please submit the installation instructions that will be provided to the OEM integrators. Please note that these instructions must provide the installer with information regarding RF exposure, and instruct him that, in order to comply with FCC RFx requirements, the EUT must be installed such that a minimum separation distance of 20 cm is maintained between the antennas and all persons during normal use. This information must also be presented to the user.

(ANS) Please refer to the installation instruction of EUT as attached #4.

6. Please verify that both chains were transmitting (simultaneously) during the spurious radiated and conducted emission tests.

(ANS) Please refer to the revised test report as attached #5.

Test condition have been modified in page 6 and test datas also been changed in page 66~71.

7. Please address Section 15.407(c).

(ANS) In case of operational failure such as link loss due to long range or power down of either WLAN module,

WLAN module of DTV are designed not to send signal until it receives Beacon signals from STB. Even in this case, if STB

modules are on, it sends Beacon signal all the time to acknowledge to the DTV WLAN module.

8. The user's manual should inform user's that operation in the low UNII band is restricted to indoor use only, pursuant to Section 15.407(e).

(ANS) Please refer to revised User's Manual as attached #2.

9. Please address Section 15.407(g). Typically, frequency stability data is submitted in order to do so.

(ANS) Please refer to revised test report as attached #5.

(Page 8: Summary of Test Results, Page 72: Added test datas)

Hopely, this will be helpful for your review.

Thanks and Regards...

**Steve Kim (Sung Joo Kim)**  
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----- Original Message -----

**From:** [PCTEST TCB](#)

**To:** [SAMSUNG - Sung Joo Kim](#)

**Cc:** [PCTEST - Gregory Czumak](#) ; [PCTEST - Randy Ortanez](#) ; [PCTEST - Steve Liu](#) ; [PCTEST - Mia Kang](#)

**Sent:** Thursday, August 09, 2007 12:14 PM

**Subject:** Questions Regarding FCC ID: A3LSWLN01

To: Mr. Steve Kim / Samsung Electronics Co., Ltd.

From: Mr. Gregory Czumak / PCTEST TCB

RE: FCC ID: A3LSWLN01

Applicant: Samsung Electronics Co., Ltd.

Correspondence Reference Number: A3L7711

Confirmation Number: 708070711

Date of Original Email: August 9, 2007

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 submit schematic diagrams for the EUT.
3. Please resubmit the user's manual, including the language required by Sections 15.19 and 15.21.
4. The EUT's antennas are referred to, in the application, as "integral", however, various cable lengths are then listed. Please provide a more detailed description of the antennas (make, model, etc.), and address Section 15.203 with respect to the antenna connectors.
5. To whom will the EUT be marketed? Typically, such devices are limited to sale to OEM integrators only- is that the case here? If so, please submit the installation instructions that will be provided to the OEM integrators. Please note that these instructions must provide the installer with information regarding RF exposure, and instruct him that, in order to comply with FCC RFx requirements, the EUT must be installed such that a minimum separation distance of 20 cm is maintained between the antennas and all persons during normal use. This information must also be presented to the user.

6. Please verify that both chains were transmitting (simultaneously) during the spurious radiated and conducted emission tests.
7. Please address Section 15.407(c).
8. The user's manual should inform user's that operation in the low UNII band is restricted to indoor use only, pursuant to Section 15.407(e).
9. Please address Section 15.407(g). Typically, frequency stability data is submitted in order to do so.

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

Sincerely,

Gregory Czumak  
Senior Certification Engineer  
Quality Manager

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