

Chris Harvey

From: Y.G. Gwon [ykkwon@onetech.co.kr]
Sent: Tuesday, August 28, 2007 1:21 AM
To: charvey-tcb@ccsemc.com
Subject: RE: Wintelcom Inc, FCC ID: VIMWA500SU, Assessment NO.: AN07T7095, Notice#1
Attachments: WA500-SU_Installation_Guide(Wintelecom)FCC_rev01.pdf; WinTelecom Inc_DoC.pdf; VIMWA500SU_Report_DTS.pdf; BLOCK Diagram.pdf

Dear Chris,

Thank you for your kind cooperation.

I would like to embed my reply at the bottom of your kind comets.

Please review those at your earliest convenience.

FYI, our customer wants to add additional external antenna, so reply email was too late. I am sorry about that.

Best Regards,

Y. G. Gwon (權容廣)

ONETECH Corp.

RF/EMC Div.

TEL: +82-31-765-8289 (Ext.107)

FAX: +82-31-766-2904

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

From: charvey-tcb@ccsemc.com [mailto:charvey-tcb@ccsemc.com]
Sent: Wednesday, August 08, 2007 8:28 PM
To: ykkwon@onetech.co.kr
Cc: charvey-tcb@ccsemc.com
Subject: Wintelcom Inc, FCC ID: VIMWA500SU, Assessment NO.: AN07T7095, Notice#1

Dear YG Kwon,

You are listed as the Technical Contact for the above referenced TCB application. The following item(s) need(s) to be resolved before the review can be continued:

1. The RF Test Report section 5.3 is text for a 2.4GHz 802.11(b) WLAN device.

Please update that section of the report for this EUT.

[YG] Attached please find a revised test report.

2. The Test report page 6 indicates that this device will transmit at 108MB/s data rate. The test data included seems to be included for up to 54MB/s. The Occupied Bandwidth stated is approximately 16MHz using an OFDM signal. Does this device use a MIMO type of system or a channel-bonding mode in order to achieve the 108MB/s rate? Please provide additional technical details and correct the report.

[YG] Attached please find a revised test report and file for manufacturer's declaration regarding turbo mode.

3. The RF test report page 6 lists the RF power as 18dBm, but the test data on page 14 shows power as 22.3dBm. Please explain and correct the report.

[YG] Attached please find a revised test report.

4. I have updated the Application Form for this device to show 5745 - 5805 MHz (center frequency of the lowest to highest channels) using a peak conducted power of 22.3dBm, or 0.1698Watts. Please confirm that this is acceptable.

[YG] Thanks a lot!

5. Please submit a revised RF Block Diagram that provides better detail on the RF Circuitry, clocks and frequencies of operation.

[YG] attached please find a revised block diagram.

6. The Radio Module (FCC ID: NKRCM9) used in this final device is capable of operating in 2.4GHz band of FCC 15.247, and the 5.1-5.3GHz band and 5.725 - 5.825 GHz bands of the FCC UNII 15.407 bands. Please confirm that this final device will only be capable of operating in the 5.725-5.825GHz band using the DTS 15.247 requirements and that all other bands are not available to the installers or users.

[YG] Attached please find a file for applicant's declaration.

7. The Test Report indicates that the following statements will be located in the manual:

According to the User's guide, the separation between the EUT and a person shall be at least 40cm, so the EUT meets the MPE requirement.

Following Caution on the manual will be described.

"CAUTION: Exposure to Radio Frequency Radiation.

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit."

Please update the manual to include these statements.

[YG] Attached please find a revised manual.

8. This device uses an N-Connector on the enclosure of the EUT. The FCC Requires (per 15.203) that standard connectors only be used on devices that require professional installation. The installation manual does not indicate the requirement for Professional Installation. Please update the installation manual to indicate that Professional Installation is required.

[YG] Attached please find a revised manual.

9. The manual is required to include FCC information in accordance with 15.105, 15.21 and RF Exposure warnings appropriate for the device. Please update the manual.

[YG] Attached please find a revised manual.

10. There is no explanation how this device with 22.3dBm conducted power and 19dBi antenna complies with FCC 15.247(b)(4) and 15.247(c). Please explain this in the revised test report.

[YG] Attached please find a revised test report.

11. The test report does not document compliance with the Restricted Band radiated emissions of 15.205. Please confirm that this device complies with the restricted band radiated emissions and update the test report.

[YG] Attached please find a revised test report.

12. The test setup photographs show an unterminated RF connector (except for the RF Conducted which are terminated into the Spectrum Analyzer). Was this device tested for Radiated and AC Conducted emissions while transmitting into the 19dBi antenna? Please update the test report and setup photographs as needed.

[YG] The EUT was tested with internal 19dBi antenna and external antenna. Attached please find a revised test report.

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.

Best regards,

Chris Harvey

Charvey-tcb@ccsemc.com

Best Regards,

Y. G. Gwon (權容廣)

ONETECH Corp.

RF/EMC Div.

TEL: +82-31-765-8289 (Ext.107)

FAX: +82-31-766-2904