Chris Harvey

From: Thomas Cokenias [tom@tncokenias.org]
Sent: Wednesday, June 07, 2006 9:35 PM
To: charvey-tcb@ccsemc.comcharvey-tcb@ccsemc.com
Subject: Re: Alvarion Ltd., FCC ID: LKT-VL-53C, Assessment NO.: AN06T5745, Notice#1

Hi Chris,

Answers follow questions.

best regards

Tom

On May 22, 2006, at 11:49 AM, <charvey-tcb@ccsemc.com> <charvey- tcb@ccsemc.com> wrote:

> Dear Tom,
>
> The initial review of the above referenced TCB application has been
> performed. The following items need to be addressed before this
> review can be continued:
>
> 1. The exhibit for Theory of Operation ('._VL53C theory.pdf')
> apparently contains errors or is not a pdf document as it will not
> open using Acrobat 7. Please repair and resubmit this exhibit.
ANS1 Document looks good here, I re-saved and uploaded to website.
>
> 2. Please provide Internal Photographs, Letter of Authorization
> from Alvarion to Tom Cokenias, RF Exposure compliance information
> (MPE Calculations), Label and Label Placement, Professional
> Installation Declaration for 15.203 compliance, Internal
> Photographs, separate test setup photographs,

ANS 2 All documents have been uploaded to website
>
> 3. Please provide technical information to address section 15.407
> (c) requirement.

ANS 3 Document uploaded to website
>
> 4. This device has 3 different Channel Bandwidths, which must each
> be used along with the 3 available Antenna Gains to determine the
> Peak Power Limit, Peak Power Spectral Density Limits. This
> information does not seem to be clearly provided. For example:
> The maximum measured output power when the radio is configured as
> access unit is 14.3 dBm (27mW). In accordance with section 15.407
> (a)(2): for the band 5.25-5.35GHz, the peak transmit power shall
> not exceed the lesser of 250mW or 11 dBm+(10logB). The smallest
> measured emission bandwidth is 11.29MHz, which would equate to a
> Peak Power Limit of 21.5dBm. In 15.407(a)(2) also mentioned, if
> transmitting antenna of directional gain greater than 6 dBi are
> used, both the peak transmit power and the peak power spectral
> density shall be reduced by the amount in dB that the directional
> gain of the antenna exceeds 6 dBi.
> Based upon section 4 of test report, the maximum of 28 dBi antenna
> gain is used with this unit, so the output power limits for 28 dBi
> antenna gain shall be 21.5 - (28-6) = -0.5dBm. The measured output
> power is over the limits. Same situation is also applied to
> Subscriber unit. Please review the output power and peak power
> spectral density in conjunction with the 26dB Bandwidths and
> antenna gains.
>

ANS 4 New test report has been uploaded to website
> 5. The Users Manual indicates that there is guidance regarding the
> Country Dependent parameters, but this information has not been
> provided with this application. Please provide this information
> about parameter adjustment (i.e. power) which is provided to the
> installers to ensure that these devices are installed in a
> compliant manner.
>
ANS 5 Manual update pages have been loaded to website
> 6. The test report declares that testing has been performed in
> accordance with ANSI C63.4:1992. Please determine if testing was
> performed in accordance with ANSI C63.4:2003 as required by the
> FCC, as well as the FCC Measurement guidance for UNII devices and
> then update the test report accordingly.
ANS 6 Confirmed ANSI C63.4-2003
>
> 7. Has the Peak Excursion measurement been evaluated to show that
> the comparison between the two measured levels is made within the
> same 1 MHz segment per FCC guidance?

ANS7 I uploaded letter from the lab confirming this
>
> 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
>