

Mike Kuo

From: Tom Cokenias [tom@tncokenias.org]
Sent: Thursday, December 23, 2004 10:46 AM
To: Mike Kuo
Subject: Fwd: RE: FW: Alvarion Ltd., FCC ID: LKT-VL-53, Assessment NO.: AN04T4 361, Notice#1

Mike,

I just got these answers from Israel (must be 8PM there). Let me know if these answers meet your needs to grant this application.

best regards

Tom

X-Original-To: tom@tncokenias.org
Delivered-To: tom@ethra2.cokenias.org
From: Ely Reich <ely.reich@alvarion.com>
To: Avner Ruta <avner.ruta@alvarion.com>, "tom@tncokenias.org" <tom@tncokenias.org>
Subject: RE: FW: Alvarion Ltd., FCC ID: LKT-VL-53, Assessment NO.: AN04T4 361, Notice#1
Date: Thu, 23 Dec 2004 20:37:39 +0200
X-Spam-Checker-Version: SpamAssassin 2.63-1.2 (2004-01-11) on ethra2.cokenias.org
X-Spam-Level:
X-Spam-Status: No, hits=-4.7 required=6.5 tests=BAYES_00,HTML_FONTCOLOR_BLUE,HTML_MESSAGE autolearn=no version=2.63-1.2
Status:

Hi Tom

1. The system contains a base station and subscriber unit. The unit is based on the 802.11a protocol so there is no transmission from the subscriber unit unless it has data to transmit. The base station transmits in addition to the regular data control signals to the subscriber unit.
2. The output power is set by the software and is limited by the software to 30dBm EIRP not taking into account cable loss.
 - a. The base station antenna is supplied with a cable of about 1dB loss therefore the actual output power is 29dBm.
 - b. The subscriber unit output power is set to 8dBm and the antenna is 21dBm giving a 29dBm EIRP output power.

Regards

Ely

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

From: Avner Ruta

Sent: Thursday, December 23, 2004 7:57 PM

To: Ely Reich

Subject: FW: FW: Alvarion Ltd., FCC ID: LKT-VL-53, Assessment NO.: AN04T4361, Notice#1

Ely

[gib a kik](#)

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

From: Tom Cokenias [mailto:tom@tncokenias.org]

Sent: Thursday, December 23, 2004 7:53 PM

To: Duane Buddrius; Avner Ruta

Subject: Fwd: FW: Alvarion Ltd., FCC ID: LKT-VL-53, Assessment NO.: AN04T4361, Notice#1

Hi Duane, Avner

Here are the questions that remain for the VL-53. With respect to 15.407c

(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for

equipment authorization a description of how this requirement is met.

This can be taken care of with further details of the operational description.

Regarding the 30 dBm EIRP limit in the 5.25-5.35 GHz band:

How do you want to handle this? If you supply cable with the unit, and instructions requiring the use of same, you can include the cable loss to reduce the power into the antennas so that EIRP is 30 dBm or less.

Otherwise, the output power would need to be reduced slightly.

Let me know..

best regards

Tom

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

From: Compliance Certification Services [mailto:MKuo@ccsemc.com]

Sent: Monday, December 20, 2004 4:06 PM

To: Mike Kuo

Subject: Alvarion Ltd., FCC ID: LKT-VL-53, Assessment NO.: AN04T4361, Notice#1

Question #1: Please provide technical information to address section 15.407(c) requirement.

Question #2: The max. measured output power when the radio is configuration 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). Measured emission bandwidth is 25.67MHz. The lesser output limits shall be 24dBm. 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, 16 dBi antenna gain is used with Access unit, so the output power limits for 16 dBi antenna gain shall be 14 dBm. 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. The measured highest output power when configured as subscriber unit with 28 or 21 dBi gain does not comply the limits.

Best Regards

Mike Kuo

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.

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