

From: Tom Cokenias [tom@tncokenias.org]  
Sent: Monday, March 03, 2003 11:20 AM  
To: Mike Kuo  
Subject: Re: FW: Alvarion Ltd., FCC ID:LKT-VL-IF, AN03T2620

>Hi Mike,

Answers follow questions. The requested documents have been uploaded to the website.

Please let me know at your earliest when you will be able to grant this, assuming questions are answered satisfactorily.

best regards

Tom

>  
>Notice\_content  
> -----  
>Question #1: Test report is protected with security. Please provide test  
>setup photo as separate file.

ANS 1 Test setup photos have been provided

>  
>Question #2: Please provide antenna specification sheet.

ANS 2 Antenna data sheets have been provided

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>Question #3: Conducted peak output power measurement: Per FCC DTS  
>measurement guideline, the RBW shall be > 6dBW. The 6dBW reported is  
>16.65MHz, however, RBW=3MHz was used measured the output power. Page 21 of  
>test report used the calculated output power by using  $21.3 + 10 \log(18/3)$ ,  
>such calculation is no longer acceptable. Please measure the output power  
>with peak power meter or with channel power.

ANS 3 Refer to attached pdf document, this is from Joe Dichoso's presentation in October 2002 at TCB training. Alvarion is using alternative procedure in Appendix A. The test results taken previously were done per the appendix (I sent copy to Israel) and test engineer confirms using the bandwidth power measurement function of the analyzer.

I note there was a data entry error on page 22 of the report. The 6 dB BW used to calculate bandwidth correction was 18 MHz, it should be 16.65 MHz, the measured 6 dB BW. The calculated peak power level is therefore

$21.3 \text{ dBm} + 10 \log(16.65/3) = 28.7 \text{ dBm}$ . This is the peak power calculated per Appendix A of the Joe Dichoso handout. I have submitted a corrected page 21/44 to the website as an attachment.

I believe the data presented is therefore in accordance with FCC alternative method to peak power meter and should be acceptable for certification. Do you agree?

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>Question #4: The max. reported output as indicated in the test report is >21.3dBm. However, 25dBm was used for 21dBi gain antenna and 20dBm was used >for 16dBi antenna in MPE estimate. Please explain the differences in output >power used.

ANS 4 Corrected MPE data has been sent. The 21 dB panel is used for CPE in point to point operation. EIRP is not limited in p2p use. The correct peak power for the CPE antenna is 28.7 dBm, as calculated in 3 above.

The sector antenna is for point to multipoint use, and EIRP is limited to 36 dBm EIRP. With a 16 dBi antenna, the maximum allowed power would be 20 dBm.

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>Question #5: Is this device going to be used for point-to-point application >only ? Will both antenna will be used for P-T-P only ?

ANS 5 The cpe operates in p2p mode always. The base station operates as p2mp.

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>Question #6: Since standard antenna connector is used and section 3-5 of >user manual required professional installation. The grant condition will be >restricted to professional installation only.

ANS 6 Understood.

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>Question #7: Please revise the RF exposure warning statement in Page 4 of >user manual by including the following statement :IMPORTANT NOTE: To comply >with FCC RF exposure requirement, the antenna used for this transmitter must >be fixed-mounted on outdoor permanent structures with a separation distance >of at least 2 meter from al persons and must not be co-located or operating >in conjunction with any other antenna or transmitter."

ANS 7 The user manual has been revised per your request and has been submitted to the website. In addition, I have revised pages 23, 25, and 50 so that correct rule part and power output are listed, and to instruct installer re FCC EIRP p2mp limits for base station. All corrections/additions are in red font.

>

>Best Regards

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>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 60 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.