

Chris Harvey

From: Claire Hoque [claire.hoque@ccsemc.com]
Sent: Monday, August 06, 2007 6:08 PM
To: Chris Harvey -TCB
Subject: answer: Exalt Communications Inc. , FCC ID: TTM-104P90M , Assessment NO.: AN07T7021, Notice#1

Attachments: EXLT13-A1 Rev C Exalt EX-4.9i FCC IC.pdf; 4.9GHzTUP.pdf; manual_LMA2.pdf; 4_9GHzSchematic.pdf; short-term_conf2.pdf; 4.9RFparts.pdf



EXLT13-A1 Rev C 4.9GHzTUP.pdf (15 KB) manual_LMA2.pdf (116 KB) 4_9GHzSchematic.pdf (805 KB) short-term_conf2.pdf (21 KB) 4.9RFparts.pdf (18 KB)

Chris,

Pls see client's answer below.

1. The Schematic exhibit submitted with this application is missing the component information. Please update the Schematic exhibit to include the component values/details.
<answer>The updated schematic is attached.

2. The Users Manual exhibit indicates that the Emission Designators are 10M9W7D and 21M8W7D for the 10MHz and 20MHz Channel Bandwidths, respectively. The Necessary Bandwidth portion of the Emission Designator is required to be equal to or less than the Channel Bandwidth. The emission Designators stated in the test report are 8M72W7D and 19M0W7D, respectively, as measured for the 10 MHz and 20 MHz Channel Bandwidths. Please update the Users Manual listing of the Emission Designators to be consistent with the measurements in the test report.

<answer>

The manual has been updated to the Emissions Designators in the test report and an updated copy of the installation manual is provided as an attachment to this email.

3. The test report has maximum Peak Transmit Power measurement for the 10MHz Channel Bandwidth of 30.48dBm which exceeds the Peak Transmit Power Limit of 30dBm for 10 MHz Channel BW (90.1215(a)). This device does not comply with the Peak Transmit Power requirements as submitted.

<answer>

The reviewer claims that we are exceeding the peak power limit of 30 dBm. However, if you read further in 90.1215 (c), the peak power is measured in terms of an RMS-equivalent, which is the column "average power" in the test report, and the power does not exceed the 30 dBm.

4. The test report emission mask M plots for the 10MHz Channel Bandwidth have been plotted against the 20MHz mask. The FCC has indicated that the term Authorized Bandwidth used in the 90.210(m) description is the Channel Bandwidth stated in 90 Subpart Y. therefore, when plotting the Occupied Bandwidth against the Emission Mask M for the 10 MHz Channel Bandwidth, the mask should start the downward slope of 90.210(m)(2) at +/- 45% of 10MHz (or

4.5 MHz) removed from the center of the channel. The Mask M plots submitted for the 10MHz Channel Bandwidths show the start of the downward slope at +/- 45% of the 20MHz Channel Bandwidth. Please revise the Emission Mask plots for all of the 10 MHz Channel Bandwidth measurements accordingly.

<answer>

The corrected masks are in the test report provided as attached to this email.

5. Please submit the Tune-Up Procedure and Parts List exhibits required by FCC 2.1033. Also, please provide the dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

<answer>

The tune-up procedure is included as an attachment to this email.

The parts list is also included as an attachment. The updated confidentiality letter is also attached.

6. The test report documents some testing according to ANSI C63.4:2003. Section 10.1.4 of this standard requires the last calibration date and calibration interval of test equipment used in the test. Please update the test report with this additional calibration information.

<answer>

The calibration information has been updated in the test report and is included as an attachment to this email.

Thanks,

Claire Hoque

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

From: Chris Harvey [mailto:charveyemc@verizon.net]
Sent: Friday, July 20, 2007 10:06 AM
To: Claire Hoque
Subject: RE: client's comments: Exalt Communications Inc. , FCC ID: TTM-104P90M , Assessment NO.: AN07T7021, Notice#1

Claire, the clarification helps in the review for question #3. I can accept the response to continue the review. I will await the complete response to all issues.

Please have client provide the Tune-Up Procedure exhibit which states what she indicated in her response below to item #5. The exhibit is still required, even though there is no user tune-up (similar to cellular phones...).

Thanks,

Chris

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

From: Claire Hoque [mailto:claire.hoque@ccsemc.com]
Sent: Friday, July 20, 2007 12:22 PM
To: Chris Harvey; Chris Harvey -TCB
Subject: client's comments: Exalt Communications Inc. , FCC ID: TTM-104P90M , Assessment NO.: AN07T7021, Notice#1

Hi Chris,

Client has two comments regarding your questions, could you pls help to address her concern so that she could provide complete answer for all the questions?
Client also provide two more manuals, pls let us know if they are needed for this application or not.

The first issue is number 3 below. The reviewer claims that we are exceeding the peak power limit of 30 dBm. However, if you read further in 90.1215 (c), the peak power is measured in terms of an RMS-equivalent, which is the column "average power" in the test report, and the power does not exceed the 30 dBm. If this is too confusing for the TCB reviewer, we can have Micom change the report to indicate that column is "peak power measured as RMS" or something that will clarify this to the TCB. Your suggestions and/or input on this are desired.

The second issue is number 5 below. There is no Tune Up Procedure for our product. The professional installer does not have any control over any of the parameters in the radio except to choose the CF, BW, etc.
from the Installation Manuals that were provided earlier today.

Thanks,

Claire Hoque

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

From: Chris Harvey

Sent: Thursday, July 19, 2007 6:55 AM

To: Michael Heckrotte

Cc: Chris Harvey; September Radecki

Subject: Exalt Communications Inc. , FCC ID: TTM-104P90M , Assessment

NO.: AN07T7021, Notice#1

Dear Michael Heckrotte,

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 Schematic exhibit submitted with this application is missing the component information. Please update the Schematic exhibit to include the component values/details.
2. The Users Manual exhibit indicates that the Emission Designators are 10M9W7D and 21M8W7D for the 10MHz and 20MHz Channel Bandwidths, respectively. The Necessary Bandwidth portion of the Emission Designator is required to be equal to or less than the Channel Bandwidth. The emission Designators stated in the test report are 8M72W7D and 19M0W7D, respectively, as measured for the 10 MHz and 20 MHz Channel Bandwidths. Please update the Users Manual listing of the Emission Designators to be consistent with the measurements in the test report.
3. The test report has maximum Peak Transmit Power measurement for the 10MHz Channel Bandwidth of 30.48dBm which exceeds the Peak Transmit Power Limit of 30dBm for 10 MHz Channel BW (90.1215(a)). This device does not comply with the Peak Transmit Power requirements as submitted.
4. The test report emission mask M plots for the 10MHz Channel Bandwidth have been plotted against the 20MHz mask. The FCC has indicated that the term Authorized Bandwidth used in the 90.210(m) description is the Channel Bandwidth stated in 90 Subpart Y. therefore, when plotting the Occupied Bandwidth against the Emission Mask M for the 10 MHz Channel Bandwidth, the mask should start the downward slope of 90.210(m)(2) at +/- 45% of 10MHz (or 4.5 MHz) removed from the center of the channel. The Mask M plots submitted for the 10MHz Channel Bandwidths show the start of the downward slope at +/- 45% of the 20MHz Channel Bandwidth. Please revise the Emission Mask plots for all of the 10 MHz Channel Bandwidth measurements accordingly.
5. Please submit the Tune-Up Procedure and Parts List exhibits required by FCC 2.1033. Also, please provide the dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.
6. The test report documents some testing according to ANSI C63.4:2003. Section 10.1.4 of this standard requires the last calibration date and calibration interval of test equipment used in the test. Please update the test report with this additional calibration information.

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

