

Chris Harvey

From: Claire Hoque [claire.hoque@ccsemc.com]
Sent: Friday, May 30, 2008 6:39 PM
To: Chris Harvey; Chris Harvey
Cc: Thu Chan; Mika Kaneko
Subject: answer: Circuit Design, Inc., FCC ID: V9X-CDP02ER457, Assessment NO.: AN08T7954, Notice#1A

Attachments: Manual(revised).pdf; 08J11754-1B FCC PART 90 Report.pdf; FCC Modular Approval Letter_V9X-CDP02ER457.doc



Manual(revised).pdf (568 KB) 08J11754-1B FCC PART 90 Report... approval Letter_V9..

Hi Chris,

Pls see answers.

1. Please submit an RF Exposure compliance exhibit for the mobile use of this device (report states 2.14dBi antenna was used).
<answer>pls see revised report.

2. The revised Operators Manual indicates that this device has applications for use in Handheld Portable devices, but the RF Exposure for this use is not addressed in this application submittal. The Grant will be conditioned as follows, but the manual must also make it clear to the OEM installers that Portable use of this module requires additional authorization(s):

"Power output is conducted and measured at the antenna terminal. This is an OEM transmitter module approved for use in products operating as a mobile transmitting device with respect to 2.1091. MPE compliance was demonstrated with a typical antenna(s) gain as shown in the filing and must not exceed 2.14dBi. Final antenna installation and operating configurations of this transmitter including antenna gain and cable loss must not exceed the ERP of the configuration used for MPE compliance. Products operating with this module are required to provide a minimum separation distance of 20 cm. Grantee must coordinate with OEM integrators to ensure the end-users of products operating with this module are provided with operating instructions to satisfy RF exposure requirements. Separate approval is required for all other operating configurations, including portable configurations with respect to 2.1093 and different antenna configurations."
<answer>noted.

3. The Specifications on Page 4 of the Operators Manual still incorrectly references FCC 90.217. Please update the manual.
<answer>manual is revised.

4. The online application form states the frequency range as 457.6-457.6 MHz, but the exhibits for this application state an operating frequency range of 457.5 - 457.8875 MHz. Also, the Equipment Class has been listed as LMS, but should be TNB, and Modular Approval box will be changed to reflect Single Modular Approval (per FCC policy). Please confirm this frequency range and that it is OK for me to make these changes in the application form.
<answer>457.5 - 457.8875 MHz is correct. pls correct to TNB.

5. The test report table for frequency stability indicates that the Limit is +/- 2.5 ppm AND +/- 5.0 ppm. Please resolve this conflict and confirm +that this device actually complies with the limit.
<answer>pls see revised report, corrected to limit +/- 5.0 ppm.

6. Modular Approval letter
<answer>revised modular letter is attached.

Thanks,

Claire Hoque
Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538, USA
Tel: (510) 771-1123
Fax: (510) 661-0888

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

From: Mika Kaneko
Sent: Friday, May 30, 2008 2:40 PM
To: Chris Harvey
Cc: Claire Hoque; Thu Chan; Chris Harvey
Subject: RE: Circuit Design, Inc., FCC ID: V9X-CDP02ER457, Assessment NO.: AN08T7954, Notice#1A
Importance: High

Hi Chris,

4. The online application form states the frequency range as 457.6-457.6 MHz, but the exhibits for this application state an operating frequency range of 457.5 - 457.8875 MHz. Also, the Equipment Class has been listed as LMS, but should be TNB, and Modular Approval box will be changed to reflect Single Modular Approval (per FCC policy). Please confirm this frequency range and that it is OK for me to make these changes in the application form.

<Mika>
Confirmed the frequency range as 457.5 - 457.8875 MHz.

Regards,

Mika

From: Mika Kaneko
Sent: 2008/05/31 () 5:37
To: Chris Harvey
Cc: claire.hoque@ccsemc.com; Thu.Chan@CCSEMC.COM; charvey-tcb@ccsemc.com
Subject: RE: Circuit Design, Inc., FCC ID: V9X-CDP02ER457, Assessment NO.: AN08T7954, Notice#1A

Hi Chris,

0.. Modular approval letter
Attached.

2. The revised Operators Manual indicates that this device has applications for use in Handheld Portable devices, but the RF Exposure for this use is not addressed in this application submittal. The Grant will be conditioned as follows, but the manual must also make it clear to the OEM installers that Portable use of this module requires additional authorization(s):

"Power output is conducted and measured at the antenna terminal. This is an OEM transmitter module approved for use in products operating as a mobile transmitting device with respect to 2.1091. MPE compliance was demonstrated with a typical antenna(s) gain as shown in the filing and must not exceed 2.14dBi. Final antenna installation and operating configurations of this transmitter including antenna gain and cable loss must not exceed the ERP of the configuration used for MPE compliance. Products operating with this module are required to provide a minimum separation distance of 20 cm.

Grantee must coordinate with OEM integrators to ensure the end-users of products operating with this module are provided with operating instructions to satisfy RF exposure requirements. Separate approval is required for all other operating configurations, including portable configurations with respect to 2.1093 and different antenna configurations."

<Mika> Noted.

3. The Specifications on Page 4 of the Operators Manual still incorrectly references FCC 90.217. Please update the manual.

<Mika> Revised User Manual is attached.

Regards,

Mika

From: Chris Harvey

Sent: 2008/05/31 () 2:49

To: mika.kaneko@ccsemc.com

Cc: claire.hoque@ccsemc.com; Thu.Chan@CCSEMC.COM; charvey-tcb@ccsemc.com

Subject: RE: Circuit Design, Inc., FCC ID: V9X-CDP02ER457, Assessment NO.: AN08T7954, Notice#1A

Mika, I have been asked by Mike Kuo to make sure there is a Modular Approval Cover Letter submitted for this application. Since this device is a Pt. 90 transmitter, the attached Pt.15 modular letter can only be used as a guide, and the final letter should not reference 15.212.

Can you please submit a Modular Approval letter for this application?

Thanks,

Chris Harvey

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

From: charvey-tcb@ccsemc.com [mailto:charvey-tcb@ccsemc.com]

Sent: Friday, May 30, 2008 11:21 AM

To: Thu.Chan@CCSEMC.COM

Cc: charvey-tcb@ccsemc.com; claire.hoque@ccsemc.com; mika.kaneko@ccsemc.com

Subject: Circuit Design, Inc., FCC ID: V9X-CDP02ER457, Assessment NO.:

AN08T7954, Notice#1

Dear Mika and Thu,

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. Please submit an RF Exposure compliance exhibit for the mobile use of this device (report states 2.14dBi antenna was used).
2. The revised Operators Manual indicates that this device has applications for use in Handheld Portable devices, but the RF Exposure for this use is not addressed in this application submittal. The Grant will be conditioned as follows, but the manual must also make it clear to the OEM installers that Portable use of this module requires additional authorization(s):

"Power output is conducted and measured at the antenna terminal. This is an OEM transmitter module approved for use in products operating as a mobile transmitting device with respect to 2.1091. MPE compliance was demonstrated with a typical antenna(s) gain as shown in the filing and must not exceed 2.14dBi. Final antenna installation and operating configurations of this transmitter including antenna gain and cable loss must not exceed

the ERP of the configuration used for MPE compliance. Products operating with this module are required to provide a minimum separation distance of 20 cm. Grantee must coordinate with OEM integrators to ensure the end-users of products operating with this module are provided with operating instructions to satisfy RF exposure requirements. Separate approval is required for all other operating configurations, including portable configurations with respect to 2.1093 and different antenna configurations."

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4. The online application form states the frequency range as 457.6-457.6 MHz, but the exhibits for this application state an operating frequency range of 457.5 - 457.8875 MHz. Also, the Equipment Class has been listed as LMS, but should be TNB, and Modular Approval box will be changed to reflect Single Modular Approval (per FCC policy). Please confirm this frequency range and that it is OK for me to make these changes in the application form.

5. The test report table for frequency stability indicates that the Limit is +/- 2.5 ppm AND +/- 5.0 ppm. Please resolve this conflict and confirm +that this device actually complies with the limit.

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