

Chris Harvey

From: Claire Hoque [claire.hoque@ccsemc.com]
Sent: Monday, January 14, 2008 2:40 PM
To: charvey@ieee.org
Subject: answer: APPLE COMPUTER, FCC ID: BCGA1254, Assessment NO.: AN08T7490, Notice#1
Attachments: antenna location and cable photos.pdf; additional internal photos.pdf; AP2.pdf; AP3.pdf; AP1.pdf; Addition to theory of oper.pdf

Hi Chris,

Since your schedule is very busy tomorrow, so I will try to complete answer here.

1. The test setup photos are still in the Test Report even though these have been included in the Short term Confidentiality request. The Test Setup Photo exhibit only included the RF Conducted test setup. Please re-issue the test report without the photos and re-issue the test setup photos to include all test setup photos.

<answer>revised report and revised setup photos are all saved in AN08T7490 folder.

2. Please revise the Internal EUT Photos to also show the general construction, including the antennas, antenna cables and placement.

<answer>additional photos are attached. Pls keep "antenna location and cable photo" as part of antenna spec. and keep it to be long-term confidential.

<<antenna location and cable photos.pdf>> <<additional internal photos.pdf>>

3. The antenna graphical exhibits were supplied in 3 separate Excel files, each with multiple tabs. The Excel program gives an error message indicating that 'data may have been lost.' Please create appropriate PDF files from your correct files and submit the antenna information in pdf file(s). Also, the Confidentiality Request Letter specifies an 'Antenna Specification' exhibit, which was not provided. Please submit these exhibits.

<answer>PDF antenna spec. files are attached.

And these three antenna exhibits are considered 'Antenna Specification' in confi. letter.
<<AP2.pdf>> <<AP3.pdf>> <<AP1.pdf>>

4. Please submit a detailed description of the 2x3 MIMO operation (i.e. is this a Spatial Multiplexed device, does it have cyclic diversity, are the antenna elements driven incoherently, etc.). Is this transmitter capable of operating on multiple channels simultaneously?

<answer>additional operation description is attached.

<<Addition to theory of oper.pdf>>

5. The manual indicates that this device can operate in the 5.15-5.25GHz band (see page 37), but the application does not include this, or any of the UNII bands. Please confirm if this device is capable of any of the UNII bands. If not, please remove that reference in the manual.

<answer> I uploaded UNII application AN08T7496.

6. The FCC classifies devices that have computer ports, such as USB, as Computer Peripherals. FCC 15.101 indicates that Computer Peripheral devices

can be approved by Declaration of Conformity (FCC DoC logo would be placed on the label) or Certification. This Transmitter application does not have an associated Certification application submitted, and the label does not contain the FCC logo. Please confirm which approval route was/is used for the Computer Peripheral portion of this device and provide the evidence of such approval.

<answer>A part 15 B application will be filed today, we are working on the report.

Thanks,

Claire

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

From: Chris Harvey [<mailto:charvey@ieee.org>]
Sent: Friday, January 11, 2008 12:51 PM
To: Claire Hoque
Subject: RE: partial answer: APPLE COMPUTER, FCC ID: BCGA1254, Assessment NO.: AN08T7490, Notice#1

Thanks Claire. I still get the file error on the Excel spreadsheets.

Please make PDF's.

Thanks,

Chris

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

From: Claire Hoque [<mailto:claire.hoque@ccsemc.com>]
Sent: Friday, January 11, 2008 2:50 PM
To: Chris Harvey
Subject: partial answer: APPLE COMPUTER, FCC ID: BCGA1254, Assessment NO.: AN08T7490, Notice#1

Hi Chris,

Since it is an urgent application(client requests to get grant by Jan.15), so I decide to provide partial answer first.

1. The test setup photos are still in the Test Report even though these have been included in the Short term Confidentiality request. The Test Setup Photo exhibit only included the RF Conducted test setup. Please re-issue the test report without the photos and re-issue the test setup photos to include all test setup photos.

<answer>revised report and revised setup photos are all saved in AN08T7490 folder.

2. Please revise the Internal EUT Photos to also show the general construction, including the antennas, antenna cables and placement.
<answer>we are working on it.

3. The antenna graphical exhibits were supplied in 3 separate Excel files, each with multiple tabs. The Excel program gives an error message indicating that 'data may have been lost.' Please create appropriate PDF

files from your correct files and submit the antenna information in pdf file(s). Also, the Confidentiality Request Letter specifies an 'Antenna Specification' exhibit, which was not provided. Please submit these exhibits.

<answer>I attached antenna files here, pls let me know if you could read them or not.

If not, I will provide PDF files, pls inform me.

And these three antenna exhibits are considered 'Antenna Specification' in confi. letter.

4. Please submit a detailed description of the 2x3 MIMO operation (i.e. is this a Spatial Multiplexed device, does it have cyclic diversity, are the antenna elements driven incoherently, etc.). Is this transmitter capable of operating on multiple channels simultaneously?

<answer>we will do that.

5. The manual indicates that this device can operate in the 5.15-5.25GHz band (see page 37), but the application does not include this, or any of the UNII bands. Please confirm if this device is capable of any of the UNII bands. If not, please remove that reference in the manual.

<answer>I just got final UNII report this morning, and I uploaded UNII application AN08T7496.

6. The FCC classifies devices that have computer ports, such as USB, as Computer Peripherals. FCC 15.101 indicates that Computer Peripheral devices can be approved by Declaration of Conformity (FCC DoC logo would be placed on the label) or Certification. This Transmitter application does not have an associated Certification application submitted, and the label does not contain the FCC logo. Please confirm which approval route was/is used for the Computer Peripheral portion of this device and provide the evidence of such approval.

<answer>we will get answer from client.

Thanks,

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

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

From: Chris Harvey
Sent: Friday, January 11, 2008 11:14 AM
To: Claire Hoque
Cc: Chris Harvey; Mike Kuo
Subject: APPLE COMPUTER, FCC ID: BCGA1254, Assessment NO.: AN08T7490,
Notice#1

Dear Claire Hoque,

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 test setup photos are still in the Test Report even though these have been included in the Short term Confidentiality request. The Test Setup Photo exhibit only included the RF Conducted test setup. Please re-issue the test report without the photos and re-issue the test setup photos to include all test setup photos.
2. Please revise the Internal EUT Photos to also show the general construction, including the antennas, antenna cables and placement.
3. The antenna graphical exhibits were supplied in 3 separate Excel files, each with multiple tabs. The Excel program gives an error message indicating that 'data may have been lost.' Please create appropriate PDF files from your correct files and submit the antenna information in pdf file(s). Also, the Confidentiality Request Letter specifies an 'Antenna Specification' exhibit, which was not provided. Please submit these exhibits.
4. Please submit a detailed description of the 2x3 MIMO operation (i.e. is this a Spatial Multiplexed device, does it have cyclic diversity, are the antenna elements driven incoherently, etc.). Is this transmitter capable of operating on multiple channels simultaneously?
5. The manual indicates that this device can operate in the 5.15-5.25GHz band (see page 37), but the application does not include this, or any of the UNII bands. Please confirm if this device is capable of any of the UNII bands. If not, please remove that reference in the manual.
6. The FCC classifies devices that have computer ports, such as USB, as Computer Peripherals. FCC 15.101 indicates that Computer Peripheral devices can be approved by Declaration of Conformity (FCC DoC logo would be placed on the label) or Certification. This Transmitter application does not have an associated Certification application submitted, and the label does not contain the FCC logo. Please confirm which approval route was/is used for the Computer Peripheral portion of this device and provide the evidence of such approval.

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