

Panasonic

Panasonic Communications Co., Ltd.

1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531 Japan

Mr. Mike Kuo/ CCS
Compliance Certification Services
561 F Monterey Road, Morgan Hill
CA 95037, USA

Date: November 24, 2004

Subject : Wireless Router, FCC ID: ACJ96NBB-HGW700/ TCB Certification

Dear Mr. Kuo;

This is in reply to your additional question on above application.

Regarding Question #2, I have received the reply and revised report from JQA Lab as following.

Revised Test Report
Revised Test SetUp Photo
Revised Attachment A

Question #2:

Only one set of test data was submitted, no indication of the antenna position along with the data. If one position(either vertical or horizontal) was used for the final test, please indicate it clearly, otherwise, please indicate antenna position on radiated spurious emission test and restricted band edge test results.

Answer to Question #2 from JQA Lab:

The level <50.8dBuV/m at 14472MHz is the worst point on radiated spurious emission and restricted band edge test. The worst configuration(Horizontal or Vertical) at 14472MHz is not able to be selected because of Noise level. The Antenna Position of the EUT in page 29 of the test report was shown as the worst condition. The reason is the worst level on the restricted band edge test.(Margin 9.1dB at 2390MHz Refer to page 34). The both levels(Horizontal and Vertical) are the same value. The horizontal level and the vertical level at 2483.5MHz(Refer to page 35) are compared. The horizontal level is higher than the vertical one.

Thus, the worst configuration at the horizontal level is selected.

If you should have any questions/comments, please do not hesitate to contact us.

Thank you very much for your time and attention in this matter.

Yours sincerely,



K. Nawata, Sr. Project Engineer

Product Safety Section

(e-mail: nawata.kunihiko@jp.panasonic.com)

cc: Mr. S. Kinoshita/ JQA Kita-Kansai Office

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Mr. Mike Kuo/ CCS
Compliance Certification Services
561 F Monterey Road, Morgan Hill
CA 95037, USA

Date: November 18, 2004

Subject : Cordless Telephone, FCC ID: ACJ96NKX-TG2431/ TCB Certification

Dear Mr. Kuo;

This is in reply to your questions on above application.

Question #1:

Page 32 of 44 of 15.247 test report, spurious emission@7311MHz is within restricted band table as stated in 15.205. The field strength limits should be 74 dBuV/m @ peak. Please make necessary correction.

Page 33 of 44 of 15.247 test report, spurious emission @7386MHz is within restricted band table as stated in 15.205. The field strength limits should be 74 dBuV/m @ peak. Please make necessary correction.

Page 34 of 44 of 15.247 test report, spurious emission @14472MHz is not within restricted band table as stated in 15.205. The field strength limits should be -20dBc of fundamental field strength. Please make necessary correction.

Please go over the radiated spurious emission test data above 1 GHz to list correct limits Vs restricted band and non-restricted band emissions. Please submit revised test report.

Answer to Question #1:

The pages 32-34 are corrected. Attached please find the revised Test Report.

Please be advised that, regarding the page 34, we believe "14472MHz " should be "14622MHz", because the original report shows 14472MHz (Limit 74 dBuV/m) correctly, and 14622MHz (Limit 74 dBuV/m) incorrectly. According to Section 15.205, 14472MHz is within restricted band, and 14622MHz is not within restricted band. Therefore, page 34 is corrected from "Limit 74 dBuV/m at 14622MHz" to "Limit 89.2 dBuV/m at 14622MHz".

Question #2:

As indicated in the test setup photos, the EUT's antenna was positioned in horizontal and vertical polarization and both positions are considered as worse case. Please indicate the EUT's antenna position that was actually used during radiated spurious emission tests and restricted band edge tests in the test report.

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Answer to Question #2:

JQA Lab answered , "The worst position is not changed. This page is not changed."

Question #3:

Please provide additional radiated emission test data

- 1) by tuning the EUT to 2412 MHz with CCK modulation/ EUT antenna to be positioned vertically/ report the field strength at 2390MHz (Peak and Average)
- 2) by tuning the EUT to 2462 MHz with CCK modulation / EUT antenna to be positioned vertically/ report the field strength at 2483.5MHz.(Peak and Average)
- 3) by tuning the EUT to 2412 MHz with OFDM modulation/ EUT antenna to be positioned vertically/ report the field strength at 2390MHz. (Peak and Average)
- 4) by tuning the EUT to 2462 MHz with OFDM modulation / EUT antenna to be positioned vertically/ report the field strength at 2483.5MHz.(Peak and Average)

Answer to Question #3:

The additional test at the restricted band-edge were done. The pages 20, 32-36 are corrected.

Question #4:

Please provide measurement instrument used with description of manufacturer and the type of instruments. In the test report, only the model name and lab code were indicated.

Answer to Question #4:

The type and the manufacturer of the instrument were added to the instrument list on the pages 6-9 and 12-16.

Question #5:

As indicated in the test report, the peak output power was measured with 8990A power meter with 84851A sensor. Please provide specification of 84851A to meet the requirements for RBW must be greater than 6dB BW.

FCC requirement for measuring the peak output power : "For all output power measurements using power meters, please assure that the probe video bandwidth is greater than the signal bandwidth. Otherwise measurement errors can result. We have noticed many instances, especially for DTS devices, where the output power measurement probe appeared to have a smaller video bandwidth than the signal bandwidth. When output power probes with sufficient bandwidth are not available to measure a particular signal than the alternate techniques."

Answer to Question #5:

JQA Lab answered, "The video band width of the peak power analyzer is set to 150MHz. Attached File:Specification.pdf This is the specification of HP8990A."

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We hope the above explanation will satisfy all your questions.

If you should have any questions/comments, please do not hesitate to contact us.

Thank you very much for your time and attention in this matter.

Yours sincerely,



K. Nawata, Sr. Project Engineer

Product Safety Section

(E-mail: nawata.kunihiko@jp.panasonic.com)

cc: Mr. S. Kinoshita/ JQA Kita-Kansai Office