

Jennifer Sanchez

From: Jennifer Sanchez
Sent: Monday, December 21, 2009 12:28 PM
To: Dusmantha Tennakoon
Cc: Jenn Warnell; Shawn McMillen; Jennifer Sanchez
Subject: RE: Technical Review Request: 81790A Ubiquiti Networks - FCC/IC TCB (M2G Model)
Importance: High
Attachments: EMCS81790A-FCC247_Rev1.pdf; M2G user guide_Rev1.pdf; 81790 Ubiquiti - Form 731_M2G_Rev1.doc; 81790 Ubiquiti Networks - IC Package_M2G_Rev1.doc

Hi Dusmantha,

Please see response below and revised Report, Manual, Industry Canada Package and Form 731 attached.

FCC:

1. The EUT appears to be an 802.11 b/g/n device. It does not appear that the b mode was tested per the test report. Please clarify why this mode was not tested.
[EUT operates in only 802.11n mode, the report is correct, please see revised Form 731.](#)
2. The peak power spectral density limit stated in table 29 (page 107 of 121) is wrong. It should be adjusted to account for the 24 dBi antenna.
[Please see revised report.](#)
3. The user manual should include a statement that installation should only be for point-to-point.
[Please see revised manual](#)

IC:

1. The SA settings for the 6dB and 99% Occupied bandwidth are incorrect. The 6 dB bandwidth needs to be measured with a RBW that is close to 1% of the emissions bandwidth. The 99% bandwidth needs to be measured with a RBW that is close to 1% of the selected span without being below 1%.
[Please see revised report.](#)
2. Please clarify how the receiver spurs measurements were performed (i.e. conducted or radiated)? It appears to have been performed radiated. Were the antenna correction factors and cable loss taken into consideration? The limits stated in the standard are in terms of field strength at 3m. However, the SA units are in terms of dBm. Please clarify how the determination was made that the emissions seen pass the field strength limits. There is also what appears to be a limit line on the plots. Please clarify what this line is.
[Please see revised report.](#)
3. The RF evaluation in Annex A of the Technical Brief Cover Sheet should state General Public Use. The standard used for evaluation is also incorrect. The RF value should also state 1 mW/cm².
[Please see revised Annex A.](#)

J. Sanchez

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