Mike Kuo

From: Mike Kuo
Sent: Thursday, February 17, 2005 3:35 PM
To: 'tom@tncokenias.org'
Cc: Yan Zheng; Claire Hoque; Michael Heckrotte
Subject: FW: Airgo Networks Inc., FCC ID: SA3-AGN1012MP0200, Assessment NO.: AN05T4557, Notice#1

-----Original Message-----
From: Compliance Certification Services [mailto:MKuo@ccsemc.com]
Sent: Thursday, February 17, 2005 3:08 PM
To: Mike Kuo
Subject: Airgo Networks Inc., FCC ID: SA3-AGN1012MP0200, Assessment NO.: AN05T4557, Notice#1

Question #1:In UNII report, FCC ID number is listed as FCC ID: SA3-AGN1012MP0200 / 5215A-1012MP02 which is not presented in proper format. Please clearly indicate what is the FCC ID number . Submit revised UNII report.
ANS1 Revised UNII report submitted to website

Question #2: Based upon OEM/ODM installation manual, the operating frequency range in the 5.15-5.25 GHz band should be 5180 - 5240 MHz and in 5.25-5.35 GHz band, the operating frequency range should be 5260 - 5320 MHz. However, in section 2.2 of the test report, the operating frequency range does not agree with above. Please explain.
ANS2 Revised UNII report submitted to website

Question #3:As indicated in the theory of operation, this device is capable of operating 5.47-5.725 GHz band but this band was not investigated in this filing. Please explain how 5.4GHz capabilities will be handled ?
ANS 3 At present, the 5.47 GHz band requirements for DFS are still in question, and FCC has extended the deadline for compliance with the technical requirements of this band. Currently the 5.47 GHz band function in this product is disabled. Once the DFS issues are resolved, Airgo will add this band to the certification via the class 2 permissive change route.

Question #4: Please identify the chain 0 (transmitting/ receiving) connector on the internal photo.
ANS 4 Chain 1 receive only antenna connector is on the corner of the board. Chain 0 TX/RX antenna connector is in from the corner, about
1/3 in from the edge. If Chain 1 is on the upper right corner, then Chain 0 is to the left of it.

Question #5 : Item 8 of request for modular approval, the antenna gain information does not agree with filing.
ANS 5 The antenna gain has been corrected on the request for modular approval and corrected document has been uploaded to the webside

Question #6: Please specify which test software was used during the test in section 2.4 of UNII report.
ANS 6 Airgo test software program RTT was used to configure and control the EUT during tests

Question #7: Based upon the equipment calibration table and the actual test data for AC line conducted tests, the measurement instrument are out of calibration. Please address this ISO 17025 issue.
ANS 7 Revised test report has been uploaded.

Question #8 : Below 1GHz radiated emission tests: same concerns as Assessment no:AN05T4556. In addition, there is no test data with the EUT is operating at UNII band, please provide below 1GHz radiated emission test data with EUT tuned to UNII band per

section 15.407(b)(5) requirement.
ANS 8 Scheduled to test UNII below 1GHz on 1 March. Did not get to it Friday 18 Feb because of software issue and ran out of time

Question #9: In the user manual, there is not information to inform the user on indoor use requirement per section 15.407(e).
ANS 9 The updated user manual provided for DTS application is being uploaded to website

Question #10 : Please provide technical information to address section 15.407(c) requirement.
ANS 10 The product follows the 802.11a protocol and does not transmit unless transmission is intentionally initiated by the operator or in response to network beacon or polling request. In the event of a circuit malfunction, the product will disable its transmit function

Question #11: Please provide test data or technical information to address section 15.407(g) frequency stabilities requirement.
ANS 11 The frequency determining circuit is a PLL with a 40 MHz oscillator. The oscillator has a frequency stability of 20 ppm, stability level required by 802.11a standard. At 5320 MHz this is a difference of approximately +/- 107 kHz. The upper and lower channel band edges are more than 10 MHz away from the upper and lower U-NII band edges. A 107 kHz frequency drift will not result in any emissions going out of band.

Best Regards

Mike Kuo

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.

Tracking:

Recipient	Delivery	Read
'tom@tncokenias.org'		
Yan Zheng	Delivered: 2/17/2005 3:35 PM	Read: 2/17/2005 5:43 PM
Claire Hoque	Delivered: 2/17/2005 3:35 PM	Read: 2/17/2005 3:41 PM
Michael Heckrotte	Delivered: 2/17/2005 3:35 PM	Read: 2/17/2005 3:48 PM