

Mike Kuo

From: Tom Cokenias [tom@tncokenias.org]
Sent: Monday, February 21, 2005 7:56 PM
To: Mike Kuo
Subject: Re: FW: Airgo Networks Inc., FCC ID: SA3-AGN1012MP0200, Assessment NO.: AN05T4556, Notice#1

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>
>-----Original Message-----
>From: Compliance Certification Services [mailto:MKuo@ccsemc.com]
>Sent: Thursday, February 17, 2005 2:40 PM
>To: Mike Kuo
>Subject: Airgo Networks Inc., FCC ID: SA3-AGN1012MP0200, Assessment NO.:
>AN05T4556, Notice#1
>
>Question #1: In DTS 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 DTS report.

ANS1 Revised DTS report submitted to website

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>Question #2: What are the data rate investigated for 5GHz operation ?
>What was the data rate used during the final investigation ?

ANS2 Data rates 6 - 54 Mbps were investigated. 54 Mbps chosen as highest power/highest data rate

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>Question #3: Based upon OEM/ODM installation instruction, this module
>is capable of transmitting and operating outside the authorized band.
>Please inform how to ensure the ODM/OEM will configure this module with
>operating frequencies within authorized frequency range.

>ANS 3 Radio firmware is set for country to which it will be exported.
>ODMs install the appropriate modules for the countries in
which they are marketed.

>
>Question #4: 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 4 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 #5: Please identify the chain 0 (transmitting/ receiving)
>connector on the internal photo.

>
>ANS 5 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 #6 : Item 8 of request for modular approval, the antenna gain
>information does not agree with filing.
>

>ANS 6 The antenna gain has been corrected on the request for modular
>approval and corrected document has been uploaded to the website

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>Question #7: Please specify which test software was used during the
>test in section 2.4 of DTS report.

ANS 7 Airgo test software program RTT was used to configure and control the EUT during
tests

>
>Question #8 : 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 8 Refer to revised test report from CCS Testing Division.

>
>Question #9 : What are the elements in the offset value used during
>peak output power measurement?

ANS Offset values are a combination of: 10 dB attenuator and short SMA-SMA cable loss

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>Question #10: Please provide functional block diagram.

ANS 10 Functional block diagram uploaded to the website

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>Question #11: Radiated emission test below 1GHz: the test data contains
>in this report shown many non-compliance emission level. As indicated
>in the test report, statement has provided to declare that for those
>emissions demonstrated non-compliance are not EUT related but due to
>the notebook data cable to the daughter board or from daughter board itself.
>Spectrum plots for below 1GHz with EUT and without EUT are provided.

ANS 11 A test jig was built from an Airgo 1200 AP, using flexible cable to bring pci
connection to the exterior of the cabinet. The EUT was totally exposed during tests.
Compliant data was obtained for emissions below 1 GHz and was submitted to the website.

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>By comparing the spectrum plots side by side, CCS can not agree the
>statements. In general, the amplitude of emission from laptop computer
>alone are increased with EUT installed. In particular, during
>horizontal polarization, there are many new emissions detected by
>installing EUT.

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>Please provide additional investigation below 1GHz to demonstrate
>compliance.

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>Best Regards

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>Mike Kuo

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>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.