


## Appendix A

### Non-Conformities for US Radio Equipment Authorization

#### Non-Conformities FCC ID: N6C-SX510 (CKC CS Ref # E08-000196-FCC-01)

The items listed below represent requests for information following review of this application for certification under United States (FCC) regulations. Further question may arise pending review of responses to these items.

OK	ID	#	Non-Conformity or Comment	Submitted Response	Respondent / Date of Response
c/tl	x	1	There have been no external photos provided. Please provide external photos.	<a href="#">Attached in reply External Photos Provided</a>	<a href="#">Ron Tozaki / 12/22/2008</a>
c	x	2	The users manual shows two devices (the SX-500 and the SX-510). Please clarify; is the SX-500 intended to be covered under this certification. (note: device tested is the SX-510 with an internal antenna and the SX-500 shown has an external antenna.)	<a href="#">The SX-500 is NOT to be covered by this certification. The manual covers two similar products.</a>	<a href="#">Ron Tozaki / 12/22/2008</a>
c	x	3	Appropriate RF Exposure information has not been provided in the users manual. The manual specifically states that the user must maintain 20cm separation from the product. However since SAR testing has been performed, an appropriate RF exposure statement is needed. Please update the users manual to include an appropriate RF exposure statement for this product.	<a href="#">Added SAR info to manual on page 71</a>	<a href="#">Ron Tozaki / 12/22/2008</a>
A	x	4	Maximum allowable size for the test reports is 6 MB. Please reduce the size for the test reports.	Test report separated	CKC 1/8/09
A	x	5	The rule parts applied for are 15B for all sections. This is inconsistent with the test reports. Please confirm changes to 15C, 15E and 15E respectively for the rule parts in order applied.	Application form updated	CKC CS 12/19/08
Tl	x	6	Since this equipment can be used in portable configuration (hence the SAR testing), please clarify whether the emissions from the product were maximized by preliminary testing in three orthogonal planes as required under ANSI C63.4 test procedures.	Test engineer confirmed maximization of emissions during testing.	CKC 1/5/09
Tl/R	x	7	In FCC report FC08-099, the voltage variations under 15.31(e) are declared to be not applicable because the device is battery powered. This is wholly inaccurate because the requirement is to then test with a fresh battery. However, 15.207 test data was provided, meaning the equipment is AC powered. For FCC report FC08-100, there is no mention of 15.31(e). Please clarify how power is delivered to the product. If battery powered, was testing performed with a fresh battery. If AC powered, please clarify whether voltage variations under 15.31(e) were performed; updated test reports as	Updated test report provided	CKC 1/7/09

			necessary.		
Tl/R	x	8	For emissions testing below 30MHz, it does not appear that any test distance correction factor was included. Please provide demonstration of compliance	Updated test report provided	CKC 1/7/09
C	x	9	The FCC statement required by 15.19(a) is missing from the product label. If the device is larger than 5 x 5 inches, this statement must appear on the exterior of the product, "This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."	The product is smaller than 5x5" (4.4x3.1"). Statement is included in the manual on page 71	Ron Tozaki / 12/22/2008
C	x	10	The statement "tested to comply with FCC standards for home or office use" is no longer required. The latest FCC requirement is to apply the FCC logo,  <p>See the following link for more information:  <a href="http://fjallfoss.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?id=27980&amp;switch=P">http://fjallfoss.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?id=27980&amp;switch=P</a></p>	We have elected to keep the home or office wording along with the required FCC ID:	Ron Tozaki / 12/22/2008
Tl	x	11	Regarding test report FC08-100, compliance with 15.407(a)(1) and (3) EIRP power spectral density requirements have not been demonstrated. Please provide evidence of compliance for these sections. In other words, the antenna gain is required in order to determine compliance levels.	Updated test report provided	CKC 1/7/09
C	x	12	Please explain how 15.407(c) compliance requirement is met, "(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met"	The 802.11 radio operates in client mode and only transmits data if it has packets to send. Except for signalling and transmit data, the radio is always in receive mode.	Ron Tozaki / 12/22/2008

The items indicated above must be submitted before processing can continue on the referenced application. Failure to provide the requested information within 60 days may result in application dismissal pursuant to Section 2.917(c) and forfeiture of the filing fee pursuant to Section 1.1106.

***How to read the table:***

**OK** column indicates closure by CKC CS.

**ID** column is for use with Agents to assist in identifying the probable source for closure.

A - Application issue

TL - Test lab issue

C - Client issue

R - Retesting may be necessary

**#** column indicates unique or separate non-conformity items (note some items may be related).

**Non-Conformity or Comment** column indicates the evaluators specific question or comment.

**Submitted response** column indicates the response or a summary of the response provided.

**Respondent / Date of Response** column indicates the responding party or agent and the date of the response was either received or logged.