

To: Desmond Fraser, Rhein Tech Laboratories Inc.
From: Joe Dichoso
jdichoso@fcc.gov
FCC Application Processing Branch

Re: FCC ID LDK102044
Applicant: Cisco Systems Inc
Correspondence Reference Number: 23101
731 Confirmation Number: EA663725

Please address the following EMC and RF safety questions.

EMC questions...

1) Please provide a complete manual.

Response: We have uploaded a beta version of the manual today in two parts, due to size.

2) Verify frequency range is 5180 5320 MHz. The grant will reflect this.

Response: 5180 5320 MHz is the correct frequency range.

3) Verify highest data rate is 54 Mbps and antenna gain is 2 dBi.

Response: The highest data rate is 54 Mbps, and the antenna gain is slightly less than 6 dBi. Antenna plots have been uploaded for your review.

4) The EUT will be restricted to indoor operation since it operates in the 5.15 5.25 GHz band. Based on the technical description, user's manual, and any advertising literature provided, how will you ensure that the use of the device will be restricted to indoor use per Section 15.15.407(e)?

Response: The user manual will state these restrictions.

Answers to the RF Safety Questions below will be provided as soon as possible.

RF safety questions..

RT:

1) Discussion of how the EUT was operated/controlled during the test to assure the testing of all appropriate modes, maximum power, and any duty factor driven parameters, per Supplement C Appendix B part I 2. If possible provide post test power data to confirm that the EUT was operating at full power throughout the test.

2) Please submit pictures of device modeling geometry, per Suppl C Appx B III 6 b.

3) Measurement of device transmit power "before and after" the SAR test to demonstrate that the unit was transmitting at maximum power.

- 4) Submit system verification data taken within 100 MHz of the test frequency, per Suppl C Appx D.
- 5) Z axis scan plots taken at the highest SAR location for each test.
- 6) Description of the probe used for testing including a physical description, additional calibration information and measurement errors, per Supplement C Appendix B part II 2.
- 7) A description of how the SAR measurements are actually performed once setup: include coarse scan, determination of peak SAR location, scans to measure points in 1 gram volume, and procedure to determine SAR value from the measurement points. Per Supplement C Appendix B part II 7 and 8.
- 8) All measured SAR plots if available. Please include all data required by Supplement C.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to Section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must upload your response via the Internet at www.fcc.gov, Electronic Filing, OET Equipment Authorization Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. 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.