

To: American TCB:
Mr Tim Johnson
RE: Silver Spring Networks
FCC ID: OWS-NIC503
21 Aug 2007

1) Kindly provide a simple layman's term operational description that explains what this device is as a separate exhibit.

[SILVERSPRING: A brief operational description has been uploaded](#)

2) Please fill in model number on the IC for the model being Certified. Additionally, please ensure this number matches that presented on the label.

[SILVERSPRING: The form has been corrected and uploaded](#)

3) Please fill in manufacturer information on the IC form.

[SILVERSPRING: The form has been corrected and uploaded](#)

4) Please note that IC requires 3 items on the label, (model, applicant, and Certification No. as Certified). The label does not appear to show the applicant for this application. Please revise.

[SILVERSPRING: The company name is silkscreened onto the circuit card. Please see external photos.](#)

5) It appears that the IC RF exposure level is miscalculated. Please review.

[SILVERSPRING: This was a typographical error on the form. The RSS102 attestation has been corrected and uploaded](#)

6) IC RSS Standards given in the test report appear mis-reported version numbers. Please review.

[SILVERSPRING: The test report has been corrected to indicate RSS210 Issue 7](#)

7) Please confirm maximum and minimum frequency of channels. The IC form/731 form show 902.3 – 926.9, while the test report page 4 shows different.

[SILVERSPRING: The upper frequency is , in fact, 926.9 MHz. the test report has been corrected](#)

8) AC Powerline Conducted emissions photographs do not appear to be provided. Please provide.

[SILVERSPRING: Test setup photos have been uploaded to the ATCB site](#)

9) Please explain the 500 kHz spec on page 10 of the report. This does not match the 300 kHz cited elsewhere.

[SILVERSPRING: The 500kHz is in reference to the FCC maximum allowed BW spec without any regard to actual channel spacing. The actual channel spacing of the I210B is actually 300kHz. Thus the actual BW limit taking the channel spacing into account is 300kHz](#)

10) The FCC has specific requirements regarding number of hopping channels, etc. This also affects items such as equal use on the average. The test report does show 83 channels are used, but the operational description implies that the example is only for 83 channels and mentions other items which suggest different channel sets can utilize fewer channels. Please explain.

SILVERSPRING: The I210B incorporates the ability to "listen" before transmission occurs. If the channel selected is determined to be "busy", that channel will be removed from the hopping sequences for a brief period of time. After which it will be returned to the sequence. Under no circumstances will a quantity of channels be removed from the sequence that would result in a hopping sequences of less than 50 channels.

11) Please explain information regarding test distance, RBW, VBW for 30 – 1000 MHz. Note that limits do not appear to match expected 3 meters limits.

SILVERSPRING: The test was actually conducted per EN55022 @ a measurement distance of 10m. The test report has been updated

12) It does not appear that RX emissions are provided up to 3 * Fundamental or Local Oscillator (whichever is higher) as given in RSS-GEN section 4.10. Please provide.

SILVERSPRING: When the device is power on, all of the oscillators and Los are powered on. When the device was characterized for radiated emissions, though it was transmitting, all circuitry associated with the receiver was on as well. It has been verified that the emission at approximately 1800MHz is indeed the second harmonic of the transmit signal and not related to the receiver.