American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

RE: Teletronics International Inc.
FCC ID: MFMSAMP24W

After a review of the submitted information, I have a few comments on the above referenced Application.

1) If the receive port did not have a proper antenna attached to it (the additional receive port for diversity), then compliance with 15.111(a) should be shown. Please comment.

RESPONSE: Part 15.111(a) is applicable only for receivers up to 960 MHz.

2) Due to concerns with how linear the transmitter itself behaves, the transmitter should be set to the highest output level and the input reduced to the amplifier by attenuators or additional cable length, and not by reducing the power from the transmitter. The additional information that was uploaded does not explain how the maximum gain of the amplifier was achieved. Please explain how the amplifier was put into a maximum gain condition, given only 150' of cable appeared to be present.

RESPONSE: To simulate this condition a long cable was used between the DC injector and the amplifier. An attenuator was not used because it would cause a DC voltage droop on the DC Injector required to power the AMP. The 150' cable length produced the minimum level at the input of the amplifier required for the amplifier to function.

3) The output power listed in the maximum gain condition was 24.9, while the maximum output power in the original data (with minimum gain) was 29.4 dBm. Assuming the amplifier is expected to behave relatively flat across its minimum to maximum gains, the input to the amplifier should be reduced via additional attenuation (using additional cable or attenuators) until the output power at the output is seen to start to drop. This is typically the point at which the following 2 conditions occur:
a) the maximum gain from the amplifier and
b) the maximum RF input to the amplifier exists for the condition where the amplifier gain is maximized.

Please provide feedback on this issue. Please note that information given in section 2.4.1 of the users manual supports that the output should be flat. Please provide test data that supports the proper maximized configuration while the amplifier is in a maximum gain condition.

RESPONSE: Plots and values of the power at the output of the amplifier as a function of the injected input power of the amplifier have been added to the addendum of the report uploaded with this response. The behavior of the amplifier is not flat as stated in the manual, however the worst-case configuration with the highest power output and the lowest power output were tested.

4) While your conclusions based upon the additional testing seem reasonable regarding the AGC amplifier in a maximum gain condition, we need to be sure that for the radiated test the unit is maximized as given in #3) above. Additionally, please provide data for at least one antenna from each type (dish, Omni, patch) antennas, using the one from each group that had the worst case margins based upon the previously tested minimum gain conditions. For future submittals, please be sure to test all submitted configurations for both minimum and maximum AGC gain conditions.

RESPONSE: The unit was tested for the worst channel with the highest antenna gain of each family type. Please refer to the data in the appendix uploaded with this response.

5) Please update the attestation letter (referring to the reduction of channels and method of marketing) to include the specific access point, PCMCIA Card, and Teletronics components combined together as a system (i.e. add the model number or similar information).

RESPONSE: Please refer to the revised attestation letter uploaded with this response.

6) Please provide Spectral Power Density results for the condition when the amplifier is at maximum gain.

RESPONSE: Plots have been added to the addendum uploaded with this response.

7) The users manual mentions Cisco Aironet 350 Series products include the AIR-LMC-352 PC Card, AIR-WGB-352R Work Group Bridge unit, AIR-AP352E2R-A-K9 Access Point unit, and the AIRBR352R-A-K9 Bridge units. This application only covers the specific system (access point w/ PCMCIA Card and amplifier +DC injector as specified in the application. Please address this issue.

RESPONSE: A DoC report and compliance information is on file for the bridge units.