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) The sample label shows the labeling placed on the amplifier. The labeling shall be placed on the “main control unit” as specified by 15.19(a)(4). Due to the nature of the system we would still recommend placing the label on the amplifier as well. Please provide additional information showing for the “main control unit”. Please note that the FCC ID placed on the access point is no longer considered valid once the amplifier has been added to the system.

   Response: The FCC ID label will be placed on the amplifier and the access point, the main control unit. Please refer to the updated Label and Label Location exhibit uploaded with this response.

2) Please provide a higher resolution exhibit for the schematic amplifier and DC injector circuits. The values specified on the schematics are not easily readable.

   Response: A more easily readable version of these schematics has been uploaded with this response.

3) The information supplied for the antennas appears to include an 8.5 dBi patch antenna which does not appear to be tested or included in this filing. Please confirm that this antenna is not part of this filing.

   Response: The 8.5 dBi patch antenns is not part of this filing and was included in error. Please refer to the revised Antenna Specifications uploaded with this response.

4) Please provide information for the cable between the access point and the DC injector. Is this cable a standard length? What type of cable was this?

   Response: The cable between the DC Injector and the amplifier is not a standard cable. The worst case configuration was used for testing. The LMR 600 offers the lowest cable loss with the minimal cable length of 3 feet. Additionally, the response to item 11 will provide further information regarding the worst case conditions.

5) It appears that the minimum and maximum channels built into the Cisco PCMCIA cards were not used. Please comment on this. Since selection of channels will affect compliance of the unit with the FCC's rules, explain what precautions are built into the system to keep the end user from adjusting the power output levels. For example adjustment of this feature is only allowed by passwords used by the installers, etc. (reference 15.15(b)).

   Response: Please refer to the cover letter from the applicant uploaded with this response, stating that the unit must be professionally installed and will be set only to the authorized channels, 3 through 9.

6) Please provide test configuration photos for conducted emissions testing performed.

   Response: Please excuse this oversight. The conducted emissions testing configuration photographs are included in the revised Test Set Up Photos Exhibit uploaded with this response.

7) All radiated spurious emissions given in the test report are for the vertical polarity. This test is to measure the emissions that emanate from the all cables, amplifier, DC injector, access point, etc. Please confirm that the device was also checked in the horizontal polarity.

Response: The radiated spurious emissions were checked for the horizontal and vertical polarities. The data listed in the report represents the worst-case values only.

8) The test equipment for radiated spurious emissions does not provide an antenna for 12.4 – 18GHz (section 6.3). Please comment.

Response: The 12.4-18 GHz horn antenna was inadvertently deleted from the equipment list. This error was corrected and is reflected in the revised test report uploaded with this response.

9) Please provide information to show compliance with the antenna requirements of 15.203. Professional installation must be used if standard connectors are applied (i.e. use of a standard connector is not allowed if professional installation "may" be required or a possible option). Please note that professional installation will require a cover letter addressing the following 3 points:
a) Application (or intended use) of the device
b) Installation requirements
c) Method of marketing the device.

Response: Please find the requested information in the cover letter from the applicant, uploaded with this response, and referred to in item 5.

10) Please confirm that this device will only be sold as a system as covered by this application (Access point +PCMCIA Card and Amplifier).

Response: Please refer to the aforementioned cover letter from the applicant, uploaded with this response.

11) The amplifier used with this system is an 1 Watt AGC amplifier. The test configuration photographs show the amplifier always used a standard length cable between the access point and the DC injector (see question 4) and a 3' cable between the DC injector and the amplifier. AGC amplifiers must be investigated for maximum and minimum gain conditions. It appears that only the minimum gain condition only has been investigated. Please provide test data that shows that the system still meets with the AGC amplifier under a maximum gain condition (i.e. add attenuation before the amplifier to create 3 mW condition specified by users manual).

Response: Please refer to the Amplifier Test Data, uploaded as exhibit Appendix O, Additional Information for AGC Amplifier.

12) Please comment on the cable length used for 12 dBi omni antenna shown in plots 3-5 through 3-8.

Response: The plots have been corrected to indicate the cable length. Please refer to the revised test report uploaded with this response.

13) The maximum exposure separation distance given in the RF exposure exhibit does not match the distance as given in the users manual & test report. Please comment and provide corrected exhibits as appropriate. Note that warnings in the users manual mention 20 cm for the patch antenna.

Response: The maximum exposure separation distance given in the RF exposure exhibit has been corrected to 2 meters, and matches the corrections made in the user manual and test report, all of which have been uploaded with this response. The patch antenna could be used either as a point to point, or a point to multi-point antenna so it is more appropriate to use the maximum safe distance.

14) The users manual mentions both a 500 mW and 1 W amplifier. Please note that this application only covers the 1 Watt version.

Response: Noted.

15) The second RF port appears to not have been connected. Please comment on if this port is disabled (as mentioned in the users manual).

Response: The second port could only be used for diversity (receiving mode) and not in the transmitting mode.

16) The users manual does not appear to include prohibition against co-location.

Response: The manual has been modified and now includes the prohibition against collocation on page 5. Please refer to the revised user manual uploaded with this response.

17) Information regarding 15.247(b)(3)(iii) should be included in the users manual.

Response: Please refer to the statement on page 8 of the revised user manual uploaded with this response.