

**MOTOROLA**

Date: June 11, 1999.

Dr. Kwok Chan
Federal Communications Commission Laboratory
Authorization & Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Dear Dr. Chan:

Motorola Inc., 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322, is sending the following information in response to your email correspondence of June 09, 1999 for Certification application with FCC ID: AZ489FT5792 (Confirmation Number: EA93655 and Correspondence Reference Number 8155):

1. The differences between the plastic carry holder and the leather case are as follows:
 - a. The plastic carry holder causes a larger separation distance between the radio and the phantom than the leather case.
 - b. The plastic carry holder does not contain metal in the clip, but the leather case does.
 - c. The plastic holder causes the radio to produce a lower measured SAR than the leather case because of the difference in separation distance that results from each when the radio is positioned at the abdomen.
 - d. The separation distance between the base of the radio antenna and the phantom is 3.5 cm when the radio is located in the plastic carry holder, however, when the radio is located in the leather case the separation distance between the base of the radio antenna and the phantom is 2.0 cm. The resultant difference between the two accessories is 1.5 cm.
 - e. The measured SAR difference, as a result of using both accessories, is also attributed to the metal piece that is contained in the leather case clip and not in the plastic carry holder. Measured SAR data obtained with the leather case indicated that the hot spot was located on the phantom's abdomen, adjacent to the metal clip. RF energy on the radio case gets coupled to the metal clip and re-radiated thus, causing a higher measured SAR at that location. The absence of the metal clip causes the SAR to be lower at the same location.

Three pictures have been provided below depicting the following:

- i. Plastic carry holder (Figure #1) with radio in abdominal test position.
- ii. Plastic carry holder and leather carry case side by side (Figure # 2) with their respective clips adjacent to the table top.
- iii. Plastic carry holder and leather carry case side by side (Figure # 3) with their respective clips exposed for better viewing.



Plastic Holder w/clip

Radio in plastic carry case w/clip

Dim A = Distance from surface of antenna base to phantom surface = 3.5cm

Figure # 2



Figure # 3



Leather case belt clip

Leather case at bottom of picture and plastic holder at top of picture.

2) A two-step approach is being taken to revise the information provided concerning body-worn use of the packet data feature of the radio product. First, the information provided with the radio product will be revised. Second, information will be added to the data cable accessory package.

2.1) Attached is a copy of an insert being added to the User's Guide. The relevant information can be found on page 2.

2.2) The following information will be added to the information provided in the data cable accessory package for this radio product. This package is currently being sold for use with the i1000plus model previously certified under FCC ID: AZ489FT5793.

The added text reads:

To assure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the applicable standards, for body worn data operation with this data cable accessory attached, use the plastic carry holder accessory. The leather carry case should not be used for body worn data cable operation.

3. A modification was made to the bottom row of Table 1, under abdomen test position, by including Note 4 as an entry in the table. The revised EME package containing the modified Table 1 was uploaded and sent to you on 6/7/99.

We trust that the above response meets your requirements. Please contact me at (954) 723-5793 if you require any additional information.

Regards,

Mike Ramnath
FCC Liaison
Email address: emr003@email.mot.com