



April 30, 2003

Solomon Satche  
FCC Office of Engineering and Technology  
445 12th Street SW  
Washington, DC 20554

Dear Solomon,

Please find enclosed the follow-up information to our telephone conversation of Friday, April 25, 2003. The enclosures include a copy of the Service and Repairs Notes #1347 (SRN1347) per your request. The SRN1347 document describes a set of modifications applicable to the MTS2000 portable radio. The purpose of the modifications is to improve the intermodulation (IM) rejection capabilities of the MTS2000 receiver section. Additionally a one page summary of the MTS2000 receiver performance before and after the modification is included. The summary includes a graph showing the IM rejection ratio versus on channel signal power and text describing the typical improvement.

It is important to note that the modifications described in the SRN specifically address a nonlinearity in the intermodulation rejection performance of the MTS2000 portable radio. Specifically the performance of the MTS2000 is improved, such that the receiver performance is more in-line with the performance of a higher tier radio such as the XTS series of Motorola portable radios. This modification is not intended to, nor does it; resolve intermodulation issues associated with very high level signals such as may be experienced near CMRS or cellular transmitter sites. It is also worthwhile to note that a similar approach is not a means to improve the IM characteristic of a higher performance receiver. The difficulties in improving high tier receiver IM rejection performance have been discussed in earlier Motorola comments to the Commission.

Should you need further information on this matter please contact me as necessary.

Sincerely,

Terry Mansfield

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Enclosures: srn1347.pdf, MTS2000 SRN 1347 Summary.pdf

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