



**MOTOROLA**

FCC ID: AZ489FT3801

16<sup>th</sup> February 2011

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

**Subject: APPLICATION FOR CLASS 2 PERMISSIVE CHANGE TO FCC AUTHORIZED Transceiver  
with FCC ID: AZ489FT3801**

Dear Sir / Madam,

A Class 2 Permissive Change is requested for VHF Portable (the subject transceiver) which is marketed in the United States and elsewhere.

A. DESCRIPTION OF PRODUCT CHANGES:

- Rx front end circuit (one of resistor value changed from 47K $\Omega$  to 39K $\Omega$  and another resistor of 100K $\Omega$  part number changed) for SINAD improvement.
- Synthesizer circuit (one of resistor value change from 200K $\Omega$  to 110K $\Omega$ ) for Unlock issue.
- VCO circuit (place one 10K $\Omega$  resistor and one of inductor value changed from 91nH to 100nH) for SINAD improvement.
- Added new 39pF RFI bypass cap and move 4 original RFI caps as closed to input and output pin of ceramic filters for Rx RFI SINAD improvement.
- Universal Connector flex re-layout to accommodate 12pF cap for Tx RFI SINAD improvement.
- Use beaded chassis to improve grounding and place conductive pad on mixer shield to provide better grounding for retainer to improve Tx SINAD for RFI

B. PERFORMANCE DIFFERENCES:

Performance data on radiated and conducted spurious emissions was obtained in accordance with Rule part 2.1053. Attached results shows that conducted and radiated spurious emissions (2Fc) have degraded compared to the original filing but are within FCC limits.

C. CONCLUSION:

This radio continues to meet all FCC emissions requirements, including RF Exposure, for which authorization was originally granted. However, the radiated and conducted spurious emissions have degraded to those originally reported to the FCC, thus triggering a Class 2 Permissive Change request.

Sincerely,

/s/ Mike Ramnath (signed)

Mike Ramnath  
Manager, Regulatory Compliance  
954-723-5793  
Email: [Mike.Ramnath@motorolasolutions.com](mailto:Mike.Ramnath@motorolasolutions.com)