

August 30<sup>th</sup>, 2012

Office of Engineering and Technology Laboratory Division  
Equipment Authorization Branch  
FCC Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046

**Subject: APPLICATION FOR CLASS 2 PERMISSIVE CHANGE TO FCC AUTHORIZED Transceiver  
with FCC ID: AZ489FT4872**

A Class 2 Permissive Change is requested for Alpha-L UHF1 (403-425 MHz) 4.5 Watt (the subject transceiver) which is marketed in the United States and elsewhere.

A. DESCRIPTION OF PRODUCT CHANGES:

This is a piece part change due to unavailable and discontinued components by manufacturer. Below is the component list:

- Switching IC: Switch analog signal from "on" to "off" and vice versa
- PLL IC: Phase locked loop
- VTCXO: Control the crystal oscillator
- Pin Diode: RX and TX switching
- MOSFET (Final Amp): Amplify TX Power

PCB needs minor changes to accommodate new component size or pin difference but still remains in the same position. Values were also optimized to fit the above components.

B. PERFORMANCE DIFFERENCES:

No degradation was observed on Transient Freq Behavior, Conducted Spurious Emission, and RF Exposure but found degradation for Radiated Spurious Emission when compared to the data in the original filing. However, the data continues to be compliant to the FCC limits.

C. CONCLUSION:

This radio continues to meet all FCC emissions requirements for which authorization was granted. However, the Radiated Spurious Emission has degraded compared to those originally reported, thus this change does meet requirements of a Class-2 Permissive Change.

Sincerely,



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