

Date: September 14, 2021

Office of Engineering and Technology Laboratory Division Equipment Authorization Branch 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: AZ489FT7133

Dear Sir/Madam,

A permissive change is requested for the subject transceiver which is marketed in the United States and elsewhere.

A. DESCRIPTION OF PRODUCT CHANGES:

No changes to PCB layout, only component value changes.

- LMR VCO matching optimized to improve VCO locked time to meet full duplex timing requirements for future full duplex feature launching.
- New LMR HWID for full duplex hardware with 2 passive components value change at controller section. Hardware changed from supports half duplex to full duplex mode.
- AuxGreenPax IC logic table amended.
- eMMC memory capacity has been upgraded from 32G to 64G.
- New AP HWID for 64G memory with 4 components value change at AP board.
- LTE B48 conducted/radiated spurs have been improved.
- LTE AGPS B13 & B14 sensitivity has been improved.

B. PERFORMANCE DIFFERENCES:

Degradation was observed on EME (SR ID 18058) as compared to the previous filing but the data continues to be compliant to the FCC limits. However, EMC testing was performed on B48 and no degradation was observed on EMC Spurious Emission. The changes of the LMR VCO lock time, LTE AGPS B13 & B14 sensitivity improvement, and enabling full duplex mode of the radio by changing the passive component value in a non-transmitter section, will not impact both RX/TX EMC performance. There is no impact to BT/WIFI performance due to no changes involved in these sections.

C. CONCLUSION:

These radios continue to meet all FCC emissions requirements for which authorization was granted. However, EME has degraded compared to those originally reported, thus this change does meet requirements of a Class-2 Permissive Change.

Sincerely,

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