



Testing Tomorrow's Technology

April 9, 2018

Subject: FCC 15.247, RSS-247, and RSS-Gen Class 2 PERMISSIVE CHANGE for Murata Electronics North America, Model CCT24, FCC ID: HSW-CCT24 and IC: 4492A-CCT24

The purpose of this report is to file for a Class II permissive change for the following reasons:

- EUT PCB Modifications (no circuits in the transmit path changed)
- EUT Shielding Improvements
- Transmitter Frequency shifted from originally approved frequencies (software level changes only)

The basic functionality and intended usage remain the same as per the original filing for this product. Additionally, all antennas used are the same type/lesser gain than the originally listed antennas.

The PCB changes consist of moving the up/down converter IC and associated passive components to the bottom of the board. Filtering was added to the receive path of this IC which is also placed on the back of the board. A 9 dB attenuator following the up/down converter was changed to a 0 dB attenuator and a 16 dB attenuator now precedes the up/down converter. No other circuit changes were made. There were no changes made to the circuit in the transmit path. The transmit path remains unchanged.

The shielding changes include installing a single piece shield on the back of the board in addition to the shielding that was originally in place.

The transmit channels were moved a block down in frequency, 2.95 MHz. Formerly, channel 0 (lowest channel) was at 2409.55 MHz and channel 25 (highest channel) was at 2479.85 MHz. Now, channel 0 is 2406.6 MHz and channel 25 is 2476.9 MHz. Spacing and channel bandwidth has not been altered. This is a software change only; no hardware changes and no changes to the basic frequency determining and stabilization circuits, frequency multiplication stages, basic modulator circuit or maximum output power levels.

The test report shows that the product continues to meet the applicable subpart for CFR 47, Part 15.207, 15.209, 15.247 and RSS 247.

See the test report and additional submittal exhibits for details.

Best Regards,

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