



June 21, 2016

**Subject: FCC 15.247, RSS-247, and RSS-Gen Class 2 PERMISSIVE CHANGE for Controlant EHF, Model CO 13.01, FCC ID: 2AD9R-CO1301 and IC: 20355-CO1301**

This Permissive Change letter has been generated on behalf of Controlant EHF, to document the following changes to their currently certified product model CO 13.01.

The originally tested radio product has been modified to optimize the performance. The following components were replaced for this modification:

- Temperature and humidity sensor added (details below)
- Openings added to the product enclosure (details below)
- Add antenna ANT-916-CW-QW, 1.8 dBi
- Add antenna ANT-916-OC-LG-RPS, 2.2 dBi

The changes above do not affect the transmitter circuitry. That portion of the product remains identical to the originally tested product. To improve the transmitter signal performance two antenna options have been added. These are of the same type and lesser gain than the antenna used during the original testing. The modified version of the product has been designated with the model number CO 13.02.

To show continued compliance with the relative subpart, the product was re-evaluated for both radiated intentional emissions, Part 15.209, 15.247 and radiated unintentional emissions, 15.109. No other testing was deemed necessary.

The two new antennas are turned to perform better in the 900-930 MHz band. Pre-scans were performed to determine the worst case configuration, which is the configuration which was then used for all testing. Based on pre-scan results the ANT-916-CW-QW antenna proved to generate higher emissions at the fundamental and harmonic frequencies. This antenna was used for all testing. The test data is presented in the attached test report.

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

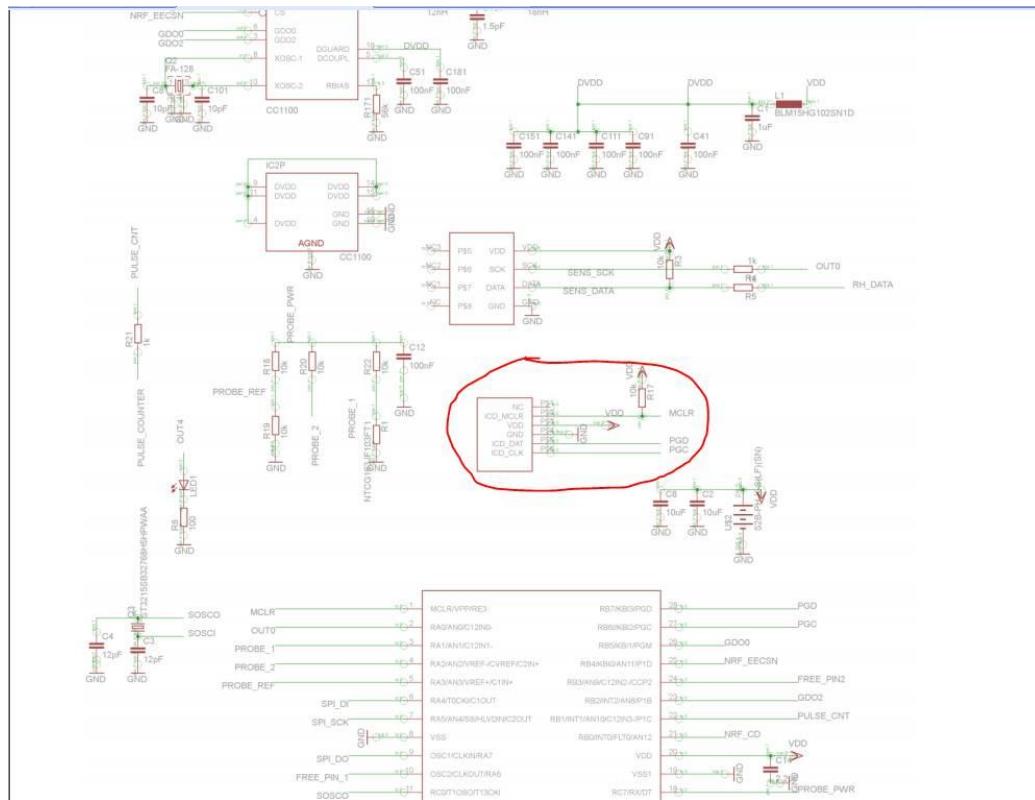
See the test report and additional submittal exhibits for details.



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## EUT Modification Details:

1. Added temperature and Humidity sensor- MFG: Sensirion P/N: SHT15  
Location circled in schematic below:



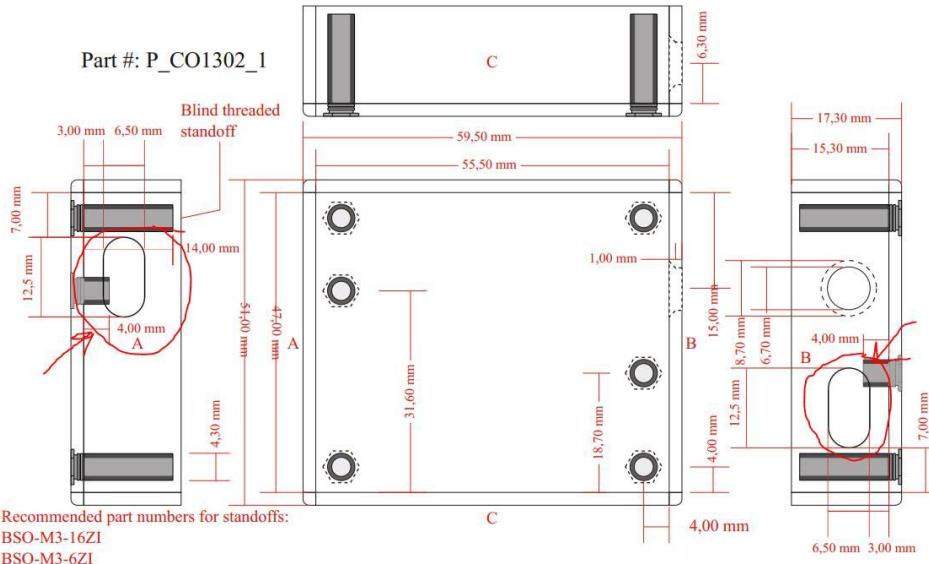


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2. EUT openings added as shown in circled areas below:

**controlant**

Enclosure layout: Shell / Material: Aluminum/metal / Color: Light Gray



Best Regards,

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