

LoRaWAN Certification Test Report

Date: 11th of December 2015

Location: Espotel Oy, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Jouko Nikula

Company and Contact Information:

Microchip Technology Inc.
Steven Bible
2355 West Chandler Blvd.
Chandler, Arizona, USA 85224-6199
USA

Tested Device: RN2483 LoRa Technology Transceiver Module

Firmware version: 1.0.1

Hardware version: 1.0

End-device identifier: 1369336334363934

LoRa Device Class: A

LoRaWAN Specification version: V1.0

Certification requirements: LoRa End Device Certification EU Version1.0

Frequency band(s) tested: 868 MHz

Test Equipment:

Test Software Version: 1.0.1
Semtech IOT SX1301 Starter Kit: Gateway software version 3.1.0
Packet forwarder software version 2.1.0

Test Result: **PASS**

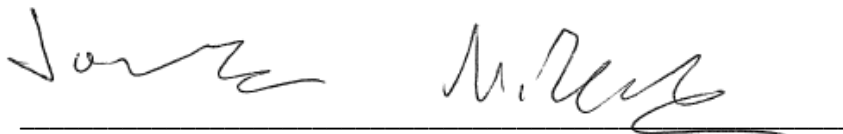
Detailed Test Results:

Test Mode activation (Activation by Personalization): **PASS**
Test Mode activation (Over the Air Activation): **PASS**
Test application functionality: **PASS**
Cryptography: **PASS**
Packet Error Rate: **PASS**
Downlink Window Timing: **PASS**
Frame Sequence Number: **PASS**
New Channel Request: **PASS**
Confirmed packets: **PASS**
RX Parameter Setup Request: **PASS**
High-speed packet error rate: **PASS**
RX timing setup request: **PASS**
Link ADR Request: **PASS**

Supported Optional Features:

Adaptive Data Rate (ADR): **Yes**
SF7, BW250 kHz: **Yes**
FSK, 50 kbps: **Yes**

Remarks: None.



Jouko Nikula, Espotel Oy