



Timco Engineering Inc.  
FCC Authorized Telecommunication Certification Body  
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Newberry, Florida 32669

Nokia Global Product Compliance Laboratory  
600-700 Mountain Avenue, Room 5B-111  
849 N.W. State Road 45, P.O. Box 370

**Subject: Application for Class II Change to FCC ID: FCC ID: VBNAAHF-01 for Nokia AirScale MAA 64T64R 128AE B41 120W AAHF Radio Unit, Operating in Band 41**

Dear Examiner:

The Nokia Solutions and Networks USA LLC AirScale MAA 64T64R B41 AAHF (hereinafter referred to as "AAHF") is the subject of this application for a FCC Class II Change to the Product Certification under FCC ID: VBNAAHF-01. The AAHF is a LTE-TDD (Long Term Evolution-Time Division Duplex) transceiver and operates in Band 41 Broadband Radio Service (BRS) spectrum (2496 – 2690 MHz). The AAHF was originally filed for one to three 10MHz and/or 20MHz carriers in a 64x64 MIMO configuration with a maximum total RF output power of 120W at its 64 transmit ports. A Class II change was processed for a single 60 MHz 5G-NR carrier at 120W total followed by a Class II Change to add a 40 MHz 5G-NR Emissions Designator transmitting at 80W.

This Class II Change is to add 60 W for 40 MHz 5G-NR (G7W) operation in 32T32R mode and 60 W LTE (F9W) in 32T32R mode to the existing Grant. Nokia Bell Labs, part of the Nokia family of companies, hereby requests this certification for 5G-NR operation.

The key data for this Class II Change are summarized below.

<b>FCC ID:</b>	<b>VBNAAHF-01</b>
<b>FCC Rules:</b>	<b>Part 27</b>
<b>Frequency Range:</b>	<b>E-UTRAN Band 41, 2496-2690MHz</b>
<b>Output Power:</b>	<b>120 Watts Total for all Tx ports. 60 W for 40 MHz 5G-NR (G7W) operation in 32T32R mode and 60 W LTE (F9W) in 32T32R mode.</b>
<b>Frequency Tolerance:</b>	<b>± 0.05 ppm</b>

Enclosed in this application package are the FCC 731 Form, an Agent Authorization letter, the required measurement data and other required exhibits specific to this request for a FCC Class II Change authorization of the subject product. The measurement exhibits attached to this application demonstrate full compliance with FCC Part 27 following the procedural requirements specified in FCC Part 2 Subpart J – Equipment Authorization Procedures. The supporting exhibits are assembled and presented in accordance with the *Table of Contents* attached below.

Should there be any questions or procedural issues please feel free to contact me by email and/or phone.

Sincerely,

A handwritten signature in blue ink that reads "Raymond J. Johnson". The signature is written in a cursive style.

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**Cover Letter**

**Agent Authorization Letter**

**Required Exhibits:**

<b><u>Exhibit Number</u></b>	<b><u>FCC Rule Number</u></b>	<b><u>Description</u></b>
1	Section 2.1033(a)	FCC Form 731
2	Section 2.911(d)	Qualifications and Certifications
3	Section 2.1033(c)(21)	Photographs of the Test Setups
4	FCC Test Report	