



Nokia Global Product Compliance Laboratory  
600-700 Mountain Avenue, Room 5A-107  
Murray Hill, NJ 07974, USA  
May 12, 2021

**Timco Engineering Inc.**  
**FCC Authorized Telecommunication Certification Body**  
849 N.W. State Road 45, P.O. Box 370  
Newberry, Florida 32669

**Subject: Application for Class II Permissive Change under FCC ID: VBNAHCA-01 for Nokia AirScale 2 Remote Radio Head, Operating in Band 5**

Dear Examiner:

The Nokia Solutions and Networks **AirScale 2 Remote Radio Head** (hereinafter referred to as “**AHCA**”) is the subject of this application for a Class II Permissive Change under FCC ID: VBNAHCA-01. The AHCA is a LTE Base transceiver station RRH 850 MHz with 4 power amplifiers. The **AHCA** is also a 5G-NR transceiver and operates in Band 5 spectrum (869 - 894 MHz). The AHCA currently supports 5 and 10 MHz LTE carriers and operates in 4x40 W and 2x60 W modes, respectively.

A Class II Permissive Change was previously obtained to add 5G-NR technology to the AHCA for 5, 10, 15, and 20 MHz BW carriers. This Class II Permissive Change is to add NB-IoT Inband to 5, 10, 15, and 20 MHz LTE Carriers and NB-IoT Guardband to 10, 15, and 20 MHz LTE Carriers.

The key data are summarized below.

<b>FCC ID:</b>	<b>VBNAHCA-01</b>
<b>FCC Rules:</b>	<b>Part 22</b>
<b>Frequency Range:</b>	<b>NR Band 5, 869 – 894 MHz</b>
<b>Output Power:</b>	<b>160 Watts total with 4x40W MIMO and 120 Watts total with 2x60W MIMO Configuration</b>
<b>Frequency Tolerance:</b>	<b>± 0.05 ppm</b>
<b>Carriers:</b>	<b>LTE NB-IoT Inband: 5, 10, 15, and 20 MHz LTE NB-IoT Guardband: 10, 15, and 20 MHz</b>

Enclosed in this application package are FCC 731 Form, agent authorization letter, the required measurement data and other required exhibits specific to this request for authorization of the subject product. The measurement exhibits attached to this application demonstrate full compliance with FCC Part 22 following the procedural

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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,



Steve Gordon

Member of Technical Staff

email: [Steve.gordon@nokia-bell-labs.com](mailto:Steve.gordon@nokia-bell-labs.com)

Reviewed by:



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## TABLE OF CONTENTS

### Cover Letter

<u>Exhibit #</u>	<u>FCC Rule Number</u>	<u>Description</u>
Exhibit 1	Section 2.1033(a)	FCC Form 731
Exhibit 2	Section 2.911 (e)	Qualifications and Certifications
Exhibit 3	Section 2.1033(c)(21)	Setup Photographs
Exhibit 4		Test Report