Bell Labs



Timco Engineering Inc. FCC Authorized Telecommunication Certification Body 849 N.W. State Road 45, P.O. Box 370 Newberry, Florida 32669 Nokia Global Product Compliance Laboratory 600-700 Mountain Avenue Room 5B-111 Murray Hill, NJ 07974, USA October 30, 2019

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

Dear Examiner:

The Nokia Solutions and Networks USA LLC AirScale MAA 64T64R B41 AAHJ (hereinafter referred to as "AAHJ") is the subject of this application for a FCC Class II Change to the Product Certification under FCC ID: VBNAAHJ-01. The AAHJ is a LTE-TDD (Long Term Evolution-Time Division Duplex) transceiver and operates in Band 41 Broadband Radio Service (BRS) spectrum (2590 – 2690MHz). The AAHJ originally supported one to three 10MHz and/or 20MHz LTE carriers and 64x64 MIMO operation with a maximum total RF output power of 120W at its 64T/64R transmit ports.

This Class II Change is to add 60 MHz BW 64T64R 120W 5G NR Emission Designator and 120W with 60 W for 40 MHz 5G-NR (G7W) in 32T32R mode and 60 W LTE (F9W) in 32T32R mode. Nokia Bell Labs, part of the Nokia family of companies, hereby requests this certification for 5G-NR operation.

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

FCC ID:	VBNAAHJ-01	
FCC Rules:	Part 27	
Frequency Range:	E-UTRAN Band 41, 2590-2690MHz	
Output Power:	120 Watts Total for all ports with 64Tx 64R MIMO Configuration	
Frequency Tolerance:	± 0.05 ppm	
Emissions Designators	ns Designators 60M0G7W 5G-NR with QPSK, 16QAM, 64QAM and	
	256QAM	

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,

Kaymond Johno

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Agent Authorization Letter

Required Exhibits:

Exhibit

Number	FCC Rule Number	Description
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