



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
849 N.W. State Road 45, P.O. Box 370

Subject: Application for Class II Change to FCC ID: VBNFRBG-01 for Nokia FRBG Flexi Multiradio BTS

Dear Examiner:

The **Nokia Solutions and Networks, FRBG Flexi Multiradio BTS** (hereinafter referred to as “FRBG”) is the subject of this application for a FCC Class II Change to the Product Certification under FCC ID: **VBNFRBG-01**. The FRBG operates over 3GPP band 12 (729-745MHz) and band 29 (718-728MHz). The FRBG has four co-located transmitters, with each transmit port supporting 40 Watts maximum rated RF output power. The FRBG supports three downlink modulations types for LTE, QPSK, 16QAM and 64QAM and two LTE channel bandwidths, 5 and 10MHz.

The FRBG was originally filed for 5 and 10 MHz carriers and 4x4 MIMO operation with a maximum total RF output power of 160W.

This Class II Permissive Change is to add **NB-IoT Guardband operation for the 10 MHz Single carrier configuration at 40W per port in the 729 - 745 MHz band to the existing Grant for FCC ID: VBNFRBG-01**.

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

FCC ID:	VBNFRBG-01
FCC Rules:	Part 27
Emissions Designator(s):	9M41F9W
Frequency Range:	3GPP band 12 (729-745MHz)
Output Power:	160W total with 4Tx4R MIMO Configuration
Frequency Tolerance:	± 0.05 ppm

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.

Raymond J. Johnson
Technical Manager
Global Product Compliance Laboratory
Phone: 908-679-6220
email: ray.johnson@nokia-bell-labs.com

Filing Engineer

Nilesh Patel
email: nilesh.patel@nokia-bell-labs.com

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Required Exhibits:

Exhibit Number	<u>FCC Rule Number</u>	<u>Description</u>
1	Section 2.1033(a)	FCC Form 731
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3	Section 2.1033(c)(21)	Photographs of the Test Setups
4	FCC Test Report	