Applicant: Nokia Solutions and Networks FCC ID: VBNFXCB-01



Bell Labs

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Nokia Global Product Compliance Laboratory 849 N.W. State Road 45, P.O. Box 370

Subject: Application for Class II Change to FCC ID: VBNFXCB-01 for Nokia Flexi Multiradio BTS (FXCB)

Dear Examiner:

The Nokia Solutions and Networks, Flexi Multiradio BTS (FXCB) Radio Unit (hereinafter referred to as "FXCB") is the subject of this application for a FCC Class II Change to the Product Certification under FCC ID: VBNFXCB-01. The FXCB is a Nokia Solutions and Networks Flexi Multiradio Base Transceiver Station (BTS) Radio Frequency Module (RFM) module which operates over 3GPP frequency band 5 (869 - 894 MHz). The FXCB has three co-located transmitters, with the option of being operated in a 4X4 MIMO configuration (two collocated units); with each transmit port supporting 80 watts maximum rated RF output power. The FXCB can be operated as MIMO or as non-MIMO. Multi-carrier operation is supported.

The FXCB was originally filed on April 27, 2013 for GMSK, 8PSK, QPSK, 16QAM and 64QAM modulations for 300kHz and 5MHz carrier bandwidths.

A subsequent Class II Permissive Change was filed on June 27, 2016 to add three LTE modulations (QPSK/16QAM/64QAM) and 4 carrier bandwidths (1.4, 3, 5, and 10 MHz)

This Class II Permissive Change is to add 5G-NR bandwidths of 5 and 10MHz.

Output Power: 80 Watts per Port (240 Watts maximum)

The key data for this Class II change is summarized below.

FCC ID: **VBNFXCB-01 FCC Rules:** Part 22

E-UTRAN Band 5, 869-894MHz **Frequency Range:**

Output Power: 80 Watts per Port (240 Watts maximum)

Frequency Tolerance: ± 1.5 ppm

Emissions Designators: 4M47W7W and 9M28W7W **Carriers:** 5G NR (5 and 10MHz)

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 22 following the procedural requirements specified in FCC

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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,

Raymond J. Johnson Technical Manager

Raymond ! Johnson

Global Product Compliance Laboratory

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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	

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