



**Timco Engineering Inc.
FCC Authorized Telecommunications
Certification Body (TCB)**

Alcatel-Lucent USA Inc.
Building 28-114H
600 Mountain Avenue
Murray Hill, NJ 07974

December 19, 2014

Sid Sanders - President
Timco Engineering Inc.
849 N.W. State Road 45
P.O. Box 370
Newberry, Florida 32669

Dear Mr. Sanders

The Alcatel-Lucent **PCS LTE 9764 Metro Cell Metro Dock Outdoor 2x2W** Transceiver System (**9764 MCO**) is the subject of this request for a FCC Product Certification under **FCC ID: AS5BBTRX-21**. The **PCS LTE 9764 Metro Cell** is a 20 MHz bandwidth LTE Transceiver with a power output capability of 2 W at each of its 2 MIMO transmit port outputs. Alcatel-Lucent hereby requests this certification for the **5M00F9W** emissions designator. This emissions designator supports operation under the 3GPP2 Long Term Evolution (LTE) communication standard. This is a new design and all of the required supporting exhibits are attached.

This application is for **9764 MCO** operation using the **5M00F9W** Emissions designator in the Broadband PCS spectrum for Blocks A through C. The measurement exhibits attached to this application demonstrate full compliance with FCC Part 24 Subpart E Broadband PCS following the procedural requirements specified in FCC Part 2 Subpart J – Equipment Authorization Procedures. The data, summarized below, is in the form presently used by the Commission's Radio Equipment List.

Equipment Identification:	AS5BBTRX-21
Rules Part Number:	Part 24 SubPart E – Broadband PCS
Frequency Range:	Transmit 1930-1990 MHz (PCS Blocks A-D-B-E-F-C)
Output Power:	0.02 to 2 Watts per output
Frequency Tolerance:	± 0.05 ppm
Emission Designator:	5M00F9W

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices), the required measurement data and exhibits specific to this request for authorization of the **PCS LTE 9764 Metro Cell**. The technical or non-technical contact at Alcatel-Lucent will comply with any request for additional information should the need arise. The attached exhibits with the applicable FCC Rule section are assembled and presented in accordance with the *Table of Contents* attachment. Included is a formal letter requesting confidentiality for the following exhibits:

Exhibit # FCC Rule Section Exhibit Title

Exhibit 4 Section 2.1033(c) (8,9)	Active Circuit Devices Drive Levels, Tune-Up procedure
Exhibit 5 Section 2.1033(c) (10)	Complete Circuit Diagrams
Exhibit 6 Section 2.1033(c) (12,3)	Instruction Book
Exhibit 7 Section 2.1033(c) (10, 13)	Block Diagram, Operational Description, Circuitry for determining frequency

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

Rudolf J. Pillmeier
Technical Manager
FCC Compliance Test Group
Global Product Compliance Laboratory
Phone: 908-582-2810
email: rudypillmeier@alcatel-lucent.com

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Primary Administrative Contact

Rudolf J. Pillmeier
Technical Manager
FCC Compliance Test Group
Global Product Compliance Laboratory
Building 28-114H
600 Mountain Avenue
Murray Hill, NJ 07974
Phone: 908-582-2810
email: rudypillmeier@alcatel-lucent.com

Filing Engineer

W. Steve Majkowski NCE
CDMA Filing Lead
FCC Compliance Test Group
FCC Compliance Test Group
Global Product Compliance Laboratory
Building 28-114J
600 Mountain Avenue
Murray Hill, NJ 07974
Phone 908-582-3782
email: steve.majkowski@alcatel-lucent.com

Att. Table of Contents for the **PCS LTE 9764 Metro Cell Outdoor Transceiver System** Product Certification Report

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Cover Letter
Request for Confidentiality

<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 (d)	Qualifications and Certifications	
Exhibit 3	Section 2.1033(c) (1,2,4,5,6,7)	Manufacturer, FCC Identifier, Emission, Frequency Range and RF Power Range	
Exhibit 4	Section 2.1033(c) (8,9)	Active Circuit Devices Drive Levels, Tune-Up procedure	(Confidential)
Exhibit 5	Section 2.1033(c) (10)	Complete Circuit Diagrams	(Confidential)
Exhibit 6	Section 2.1033(c) (12,3)	Instruction Book	(Confidential)
Exhibit 7	Section 2.1033(c) (10, 13)	Block Diagram, Operational Description, Circuitry for determining frequency	(Confidential)
Exhibit 8	Section 2.1033(c) (11)	Drawing of the Identification Label	
Exhibit 9a	Section 2.1033(c) (12)	External Photographs of the Equipment	
Exhibit 9b	Section 2.1033(c) (12)	Internal Photographs of the Equipment	
Exhibit 10	Section 2.1033(c) (10, 13)	Description of Modulation System,	

Test Report Exhibits

<u>Exhibit #</u>	<u>FCC Rule Number</u>	<u>Description of Test Report Exhibits</u>
Exhibit 11	Section 2.1033(c) (14)	Listing of Required Measurements
Exhibit 12	Section 2.1046	Measurement of Radio Frequency Power Output
Exhibit 13	Section 2.1047	Measurement of Modulation Characteristics
Exhibit 14	Section 2.1049	Measurement of Occupied Bandwidth
Exhibit 15	Section 2.1051	Measurement of Spurious Emissions at Antenna
Exhibit 16	Section 2.1053	Field Strength of Spurious Radiation
Exhibit 17	Section 2.1055	Measurement of Frequency Stability
Exhibit 18		Photographs of The Test Setups