

QUALIFICATIONS AND CERTIFICATIONS
SECTION 2.911(d)

June 17, 2009

SECTION 2.911(d) QUALIFICATION OF ENGINEER (who performed or supervised the Tests).

Dheena D. Moongilan is a Distinguished Member of Technical Staff, Alcatel-Lucent. He received his BSEE, and MSEE from Madras University, India and another MSEE from Illinois Institute of Technology, Chicago, Illinois. He was trained in FCC testing procedures by his former Supervisor, Donald N. Heirman. He has 25 years of EMC testing experience. He is a NARTE certified EMC Engineer, certificate #EMC-00/1022-NE.

SECTION 2.911(d) CERTIFICATION OF TECHNICAL TEST DATA

I hereby certify that the technical test data are the results of tests performed or supervised by me.

Dheena Moongilan
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MANUFACTURERS – IDENTIFIER
SECTION 2.1033 (c) 1 and 2

MANUFACTURERS IDENTIFIER

SECTION 2.1033(c) 1

The full name and mailing address of the manufacturer of the device and the applicant for certification:

RESPONSE:

**APPLICATION: Alcatel-Lucent
600-700 Mountain Avenue
Murray Hill, NJ 07974
Attention: Rudolf J Pillmeier**

SECTION 2.1033(c) 2

FCC Identifier:

RESPONSE: LTE 700 MHz Transceiver Duplexer Unit “700 MHz TRDU” to be operated under Part 27 of the FCC Rules.

**FCC Identifier: AS5
FCC ID: AS5BBTRX-01**

**EMISSIONS, FREQUENCY RANGE,
POWER LEVEL**

SECTION 2.1033 (c) (4), (5), (6) and (7)

EMISSIONS, FREQUENCY RANGE, POWER LEVEL

SECTION 2.1033(c) (4)

Type or types of emission:

RESPONSE:

The “700 MHz Transceiver Duplexer Unit (**700 MHz TRDU**)” capable of amplifying transmission involving the following types of emissions:

Measured Emission type: 9M38F9W for 10 MHz Bandwidth.

SECTION 2.1033(c) (5)

Frequency Range

RESPONSE:

FCC 27.5 b (3)

Block	Transmit Frequency Range MHz	Bandwidth MHz
C	746-757	11

This submission covers Block C, 10 MHz Bandwidth from 746-756 MHz

SECTION 2.1033(c) (6)

Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

RESPONSE:

The “**700 MHz TRDU**” is capable of operating from 0.002 to 40 watts. The output power is measured at the External Antenna Connection (EAC) output connector of the **9412 eNodeB Compact (700 MHz)** cabinet in which “700 MHz TRDU” is mounted. The power is under continuous software control. The short term peak power due to channel activity fluctuations is 40W +0.3/-1dB.

SECTION 2.1033(c) (7)

Maximum power rating as defined in the applicable part(s) of the rules.

RESPONSE:

The maximum average power output of the “**700 MHz TRDU**” at **9412 eNodeB Compact (700 MHz)** cabinet EAC port is 2x40 watts (MIMO). The radio transmitter is operated under 47 CFR 27. There were 6 External antenna port (EAC) ports and the ports were randomly selected for all antenna port conducted tests.