

APPLICANT: Alcatel-Lucent.

FCC ID: AS5BBTRX-23

EXHIBIT 3

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 and the applicant of the device 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:

The **Alcatel-Lucent B13 RRH 4X30** operated under Part 27 and OET Rules 662911 D01 and D02 of the FCC Rules.

FCC Identifier: AS5BBTRX-23

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**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 “**B13 RRH 4X30**” is capable of amplifying transmission involving the following types of emissions:

Measured Emission type:

BW (MHz)	Emissions Designation
10	9M00F9W

SECTION 2.1033(c) (5)

Frequency Range

RESPONSE:**Upper C - Band**

PCS Blocks	Tx Frequency	Rx Frequency	Bandwidth
C	746 - 756	777 - 787	10

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 “**B13 RRH 4X30**”, is capable of operating from 0.002 to 60 watts/port, 2x60 MIMO mode. The nominal transmit output power for each Tx path shall be translation settable over a range of 16 dB. For 2T case, that is from 60 W down to 1.5 W. Tx output power is controlled by digital step attenuator via software. The gain of the Tx path is adjusted by a FPGA to account for gain variations in the Tx chain over the operating temperatures and frequency ranges. Moreover, the FPGC provides fine output power control with a high resolution. The Tx chain parameters are carefully characterized during the manufacturing process and provide high accuracy of setting the Tx power and maintaining it over operating frequency and temperature ranges.

SECTION 2.1033(c) (7)

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

RESPONSE:

Presently, the **B13 RRH 4X30** only supports 2x60W configuration. Its maximum average power output is 60 watts per carrier and 120watts per unit (2x60 MIMO). The radio transmitter is operated under 47 CFR 27 and OET Rules 662911 D01 and D02. There were 4 External antenna port (EAC) ports and ports 3 and 4 were dedicated for 4x30W configuration.