

**APPLICANT: Alcatel-Lucent.**

**FCC ID: AS5BBTRX-02**

**QUALIFICATIONS AND CERTIFICATIONS**  
**SECTION 2.911(d)**

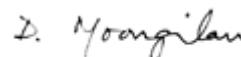
**June 6, 2013**

**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 29 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  
Distinguished Member of Technical Staff  
Global Product Compliance Laboratory  
MH 5A-115, Alcatel-Lucent  
600, Mountain Avenue  
Murray Hill, NJ 07974-0636  
**Tel:** 908 582 5539

**APPLICANT: Alcatel-Lucent.**

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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 9442 Remote Radio Head 2X40-AWS, “LTE 9442 RRH2X40-AWS is Commercial Broadband” to be operated under Part 27 and OET Rules 662911 D01 and D02 of the FCC Rules.

**FCC Identifier:** AS5  
**FCC ID:** AS5BBTRX-02

**APPLICANT: Alcatel-Lucent.**

**FCC ID: AS5BBTRX-02**

**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 **LTE 9442 Remote Radio Head 2X40-AWS**, “**LTE 9442 RRH2X40-AWS** is **Commercial Broadband**” capable of amplifying transmission involving the following types of emissions:

Measured Emission type: 14M28F9W for 15 MHz

**SECTION 2.1033(c) (5)**

Frequency Range

**RESPONSE: FCC 27.5 h (1) and (2)**

Block	Transmit Frequency Range MHz	Bandwidth MHz
A	2110-2120	10
B	2120-2130	10
C	2130-2135	5
D	2135-2140	5
E	2140-2145	5
F	2145-2155	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 “**9442 RRH2X40-AWS and 9442 RRH2X40-AWS R4X**” 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 “**9442 RRH2X40-AWS and 9442 RRH2X40-AWS R4X**” cabinet. 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:**

**APPLICANT: Alcatel-Lucent.**

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The maximum average power output of the **“9442 RRH2X40-AWS and 9442 RRH2X40-AWS R4X** cabinet EAC port is 2x40 watts (MIMO). The radio transmitter is operated under 47 CFR 27. There were 2 External antenna port (EAC) transceiver ports and the ports were randomly selected for all antenna port conducted tests. There are additional two receive port that is available in **9442 RRH2X40-AWS R4X only.**