

# ETSI TS 136 104 V13.6.0 (2017-01)



**LTE;  
Evolved Universal Terrestrial Radio Access (E-UTRA);  
Base Station (BS) radio transmission and reception  
(3GPP TS 36.104 version 13.6.0 Release 13)**



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Reference

RTS/TSGR-0436104vd60

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Keywords

LTE

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# Foreword

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# 1 Scope

The present document establishes the minimum RF characteristics and minimum performance requirements of E-UTRA, E-UTRA with NB-IoT or NB-IoT Base Station (BS).

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# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] ITU-R Recommendation SM.329: "Unwanted emissions in the spurious domain".
- [3] ITU-R Recommendation M.1545: "Measurement uncertainty as it applies to test limits for the terrestrial component of International Mobile Telecommunications-2000".
- [4] 3GPP TS 36.141: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing".
- [5] ITU-R recommendation SM.328: "Spectra and bandwidth of emissions".
- [6] 3GPP TS 25.104: "Base Station (BS) radio transmission and reception (FDD)".
- [7] 3GPP TS 25.105: "Base Station (BS) radio transmission and reception (TDD)".
- [8] 3GPP TR 25.942: "RF system scenarios".
- [9] 3GPP TR 36.942: "E-UTRA RF system scenarios".
- [10] 3GPP TS 36.211: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical Channels and Modulation".
- [11] 3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures".
- [12] ECC/DEC/(09)03 'Harmonised conditions for MFCN in the band 790-862 MHz', 30 Oct. 2009
- [13] IEC 60721-3-3 (2002): "Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 3: Stationary use at weather protected locations".
- [14] IEC 60721-3-4 (1995): "Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 4: Stationary use at non-weather protected locations".
- [15] 3GPP TS 37.104: "E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception".
- [16] CEPT ECC Decision (13)03, "The harmonised use of the frequency band 1452-1492 MHz for Mobile/Fixed Communications Networks Supplemental Downlink (MFCN SDL)".