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Electromagnetic Compatibility (EMC)
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Foreword

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1 Scope

The present document covers the assessment of E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Stations and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).

The present document specifies the applicable test conditions, performance assessment and performance criteria for E-UTRA, UTRA and GSM/EDGE Base Stations and associated ancillary equipment in one of the following categories:

- Multi-Standard Radio (MSR) Base Stations for E-UTRA, UTRA and GSM/EDGE meeting the requirements of TS 37.104 [6], with conformance demonstrated by compliance to TS 37.141 [11].
- Base Stations for E-UTRA meeting the requirements of TS 36.104 [4], with conformance demonstrated by compliance to TS 36.141 [9].
- Base Stations for UTRA FDD meeting the requirements of TS 25.104 [2], with conformance demonstrated by compliance to TS 25.141 [7].
- Base Stations for UTRA TDD meeting the requirements of TS 25.105 [3], with conformance demonstrated by compliance to TS 25.142 [8].
- Base Stations for GSM/EDGE meeting the requirements of TS 45.005 [5], with conformance demonstrated by compliance to TS 51.021 [10].

In addition to MSR base stations, the present document covers other BS supporting more than one RAT.

Technical requirements related to the antenna port of Base Stations are not included in the present document. These are found in the relevant product standards [2-11].

The environment classification used in the present document refers to the environment classification used in IEC 61000-6-1 [12] and IEC 61000-6-3 [13].

The EMC requirements have been selected to ensure an adequate level of compatibility for apparatus at residential, commercial and light industrial environments. The levels, however, do not cover extreme cases which may occur in any location but with low probability of occurrence.

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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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 25.104: "Base Station (BS) radio transmission and reception (FDD)".
- [3] 3GPP TS 25.105: "Base Station (BS) radio transmission and reception (TDD)".
- [4] 3GPP TS 36.104: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception".
- [5] 3GPP TS 45.005: "Radio transmission and reception".
- [6] 3GPP TS 37.104: "E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception".