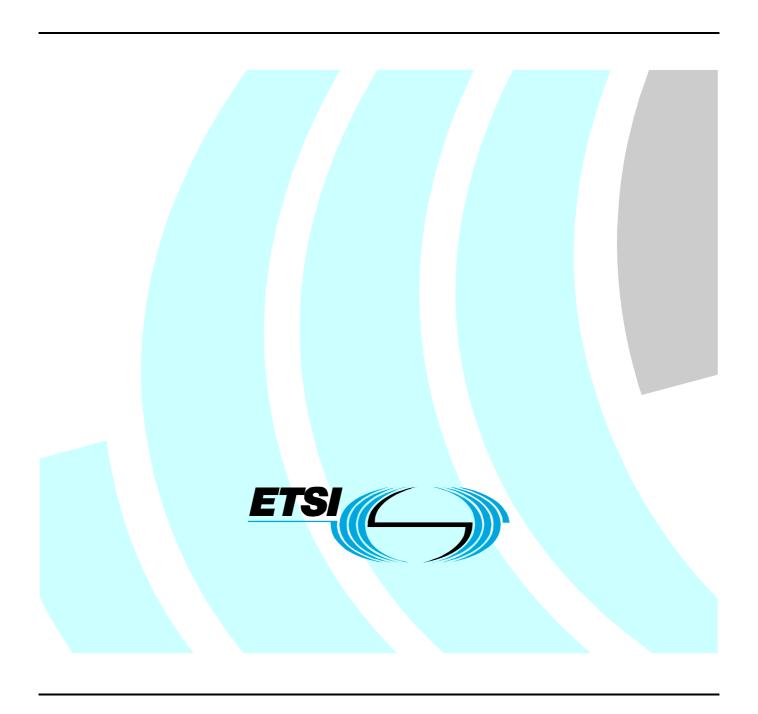
ETSI EN 301 489-24 V1.5.1 (2010-10)

Harmonized European Standard (Telecommunications series)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment



Reference

REN/ERM-EMC-268-24

Keywords

EMC, IMT-2000, radio, regulation, terminal, UMTS

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2010. All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM, **TIPHON**TM, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP[™] is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **LTE**[™] is a Trade Mark of ETSI currently being registered

for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intell	ectual Property Rights	5
Forev	vord	5
1	Scope	6
2	References	6
2.1	Normative references	
2.2	Informative references	
3	Definitions and abbreviations	7
3.1	Definitions and aboreviations.	
3.2	Abbreviations	
4 4.1	Test conditions	
4.1 4.2	General	
4.2 4.2.1	Arrangements for test signals at the input of transmitters	9
4.2.1	Arrangements for test signals at the output of transmitters	
4.2.3	Arrangements for test signals at the output of transmitters	
4.2.4	Arrangements for test signals at the output of receivers	
4.3	Exclusion bands.	
4.3.1	Transmitter exclusion band	
4.3.1.1		
4.3.1.2		
4.3.2	Receiver exclusion band	
4.3.2.		
4.3.2.2		
4.4	Narrow band responses on receivers	
4.4.1	UTRA	12
4.4.2	E-UTRA	12
4.5	Normal test modulation	12
5	Performance assessment	13
5.1	General	13
5.2	Equipment which can provide a continuous communication link	13
5.3	Equipment which does not provide a communication link	13
5.4	Ancillary equipment	
5.5	Equipment classification	13
6	Performance criteria	13
6.1	Performance criteria for continuous phenomena	13
6.1.1	UTRA	14
6.1.2	E-UTRA	14
6.2	Performance criteria for Transient phenomena	14
7	Applicability overview tables	14
7.1	Emission	
7.1.1	General	14
7.1.2	Special conditions	14
7.2	Immunity	14
7.2.1	General	14
7.2.2	Special conditions	15
Anne	Examples of mobile and portable radio and ancillary equipment for digital cellular radio telecommunications systems within the scope of	
	the present document	16
A.1	Mobile and portable radio equipment, and ancillary equipment for the IMT-2000 CDMA Direct	
	Spread (UTRA)	16

A.2		radio equipment, and ancillary equipment for the Evolved Universal ress (E-UTRA)	16
Anne	ex B (normative):	Performance assessment voice call. Audio breakthrough	17
B.1	Calibration of audio l	evels	17
B.2	Measurement of audi	o levels	18
Anne	ex C (normative):	Performance assessment of data transfer call. Error Ratios	19
C.1 C.1.1 C.1.2	UTRA	ansfer	19
C.2 C.2.1 C.2.2	UTRA. Derivation of	ansferof Error Ratios	19
C.3	EUT without data app	olication ancillary	20
C.4	EUT with data applic	ation ancillary	21
Anne	ex D (informative):	The EN title in the official languages	22
Anne	ex E (informative):	Bibliography	23
Histo	rv		24

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Harmonized European Standard (Telecommunications series) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [3] (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Council Directive on the approximation of the laws of the Member States relating to Directive 1999/5/EC [2] of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity ("the R&TTE Directive").

The present document is part 24 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

National transposition dates			
Date of adoption of this EN:	4 October 2010		
Date of latest announcement of this EN (doa):	31 January 2011		
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2011		
Date of withdrawal of any conflicting National Standard (dow):	31 July 2012		

1 Scope

The present document, together with EN 301 489-1 [1], covers the assessment of "3rd generation" digital cellular IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) mobile and portable (UE) radio terminal equipment and associated ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).

Technical specifications related to the antenna port and emissions from the enclosure port of radio equipment are not included in the present document. Such technical specifications are found in the relevant product standards for the effective use of the radio spectrum.

The present document specifies the applicable test conditions, performance assessment and performance criteria of "3rd generation" digital cellular IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) mobile and portable (UE) radio terminal equipment and associated ancillary equipment.

Examples of digital cellular mobile and portable radio equipment covered by the present document are given in annex A.

In case of differences (for instance concerning special conditions, definitions, abbreviations) between the present document and EN 301 489-1 [1], the provisions of the present document take precedence.

Base station (BS) equipment operating within network infrastructure is outside the scope of the present document. However, the present document does cover mobile and portable equipment that is intended to be operated in a fixed location while connected to the AC mains (see clause 5.5).

The environment classification and the emission and immunity requirements used in the present document are as stated in EN 301 489-1 [1], except for any special conditions included in the present document.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1]	ETSI EN 301 489-1 (V1.8.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM);
	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1:
	Common technical requirements".

- [2] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (R&TTE Directive).
- [3] Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations.
- [4] Void.
- [5] Void.
- [6] ETSI TS 134 108 (V6.4.0): "Universal Mobile Telecommunications System (UMTS); Common test environments for User Equipment (UE); Conformance testing (3GPP TS 34.108 Release 6)".