



**SLOVENSKI STANDARD**  
**DSIST EN 300 113-2:2002**  
**01-gYdhYa VYf-2002**

9`Y\_fca U[ bYfbUnXfi y`^j cghfØ A7Ł]b`nUXYj Yj`nj Yn]`n`fUX]`g\_]a`gdY\_fca`fØFAŁ!  
Ghcf]hYj`\_cdYbg\_]`a`cV]b]`\_ca`i`b]\_UW^!`FUX]`g\_UcdfYa`UnUdfYbcg`dcXUh\_cj  
f]b`[`cj`cfUkž\_]`]a`U`UbhYbg\_]`df]`\_`1`Y`!`&`"XY.`<Ufa`cb]n]fUb]`9Bž\_]`nUYa`U  
V]ghj`YbY`nU`hYj`Y``YbU`"X]fY\_hj`YF/`HH9

Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service;  
Radio equipment intended for the transmission of data (and speech) and having an  
antenna connector; Part 2: Harmonised EN covering essential requirements under article  
3.2 of the R&TTE Directive

**Ta slovenski standard je istoveten z: EN 300 113-2 Version 1.1.1**

**ICS:**

33.060.99	Druga oprema za radijske komunikacije	Other equipment for radiocommunications
33.070.01	Mobilni servisi na splošno	Mobile services in general
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

**DGIST EN 300 113-2:2002**

**en**



# ETSI EN 300 113-2 V1.1.1 (2001-03)

---

*Candidate Harmonized European Standard (Telecommunications series)*

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Land mobile service;  
Radio equipment intended for the transmission  
of data (and speech) and having an antenna connector;  
Part 2: Harmonized EN covering essential requirements  
under article 3.2 of the R&TTE Directive**

---



---

**Reference**

REN/ERM-RP02-040-2

---

**Keywords**antenna, data, radio, regulation, speech, mobile,  
PMR**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:

<http://www.etsi.org>

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://www.etsi.org/tb/status/>

If you find errors in the present document, send your comment to:  
editor@etsi.fr

---

**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 2001.  
All rights reserved.

# Contents

Intellectual Property Rights .....	6
Foreword.....	6
Introduction.....	7
1 Scope.....	9
2 References.....	9
3 Definitions, symbols and abbreviations .....	10
3.1 Definitions .....	10
3.2 Symbols .....	10
3.3 Abbreviations.....	10
4 Technical specifications .....	10
4.1 Environmental profile.....	10
4.2 Transmitter requirements.....	10
4.2.1 Frequency error.....	10
4.2.1.1 Definition .....	10
4.2.1.2 Limit .....	10
4.2.1.3 Method of measurement.....	10
4.2.2 Carrier power (conducted).....	10
4.2.2.1 Definition .....	10
4.2.2.2 Limit .....	10
4.2.2.3 Method of measurement.....	11
4.2.3 Effective radiated power .....	11
4.2.3.1 Definition .....	11
4.2.3.2 Limit .....	11
4.2.3.3 Method of measurement.....	11
4.2.4 Adjacent channel power .....	11
4.2.4.1 Definition .....	11
4.2.4.2 Limit .....	11
4.2.4.3 Method of measurement.....	11
4.2.5 Spurious emissions.....	11
4.2.5.1 Definition .....	11
4.2.5.2 Limit .....	11
4.2.5.3 Method of measurement.....	11
4.2.6 Intermodulation attenuation.....	11
4.2.6.1 Definition .....	11
4.2.6.2 Limit .....	11
4.2.6.3 Method of measurement.....	12
4.2.7 Transmitter attack time.....	12
4.2.7.1 Definition .....	12
4.2.7.2 Limit .....	12
4.2.7.3 Method of measurement.....	12
4.2.8 Transmitter release time .....	12
4.2.8.1 Definition .....	12
4.2.8.2 Limit .....	12
4.2.8.3 Method of measurement.....	12
4.2.9 Transient frequency behaviour of the transmitter .....	12
4.2.9.1 Definition .....	12
4.2.9.2 Limit .....	12
4.2.9.3 Method of measurement.....	12
4.3 Receiver requirements .....	12
4.3.1 Sensitivity (data or messages).....	12
4.3.1.1 Definition .....	12
4.3.1.2 Limit .....	13
4.3.1.3 Method of measurement.....	13

4.3.2	Co-channel rejection .....	13
4.3.2.1	Definition .....	13
4.3.2.2	Limit .....	13
4.3.2.3	Method of measurement.....	13
4.3.3	Adjacent channel selectivity .....	13
4.3.3.1	Definition .....	13
4.3.3.2	Limit .....	13
4.3.3.3	Method of measurement.....	13
4.3.4	Spurious response rejection .....	13
4.3.4.1	Definition .....	13
4.3.4.2	Limit .....	13
4.3.4.3	Method of measurement.....	13
4.3.5	Intermodulation response rejection .....	13
4.3.5.1	Definition .....	13
4.3.5.2	Limit .....	14
4.3.5.3	Method of measurement.....	14
4.3.6	Blocking or desensitization .....	14
4.3.6.1	Definition .....	14
4.3.6.2	Limit .....	14
4.3.6.3	Method of measurement.....	14
4.3.7	Spurious radiations.....	14
4.3.7.1	Definition .....	14
4.3.7.2	Limit .....	14
4.3.7.3	Method of measurement.....	14
4.3.8	Desensitization and sensitivity (duplex).....	14
4.3.8.1	Definition .....	14
4.3.8.2	Limit .....	14
4.3.8.3	Method of measurement.....	14
4.3.9	Spurious response rejection (duplex) .....	14
4.3.9.1	Definition .....	14
4.3.9.2	Limit .....	15
4.3.9.3	Methods of measurement .....	15
5	Testing for compliance with technical requirements .....	15
5.1	Environmental conditions for testing.....	15
5.1.1	Normal and extreme test-conditions.....	15
5.1.2	Test power source .....	15
5.1.3	Choice of samples for test suites.....	15
5.2	Interpretation of the measurement results.....	15
5.3	Essential radio test suites .....	16
5.3.1	Frequency error.....	16
5.3.2	Carrier power (conducted).....	16
5.3.3	Effective radiated power .....	16
5.3.4	Adjacent channel power .....	16
5.3.5	Spurious emissions.....	16
5.3.6	Intermodulation attenuation.....	16
5.3.7	Transmitter attack time.....	16
5.3.8	Transmitter release time .....	16
5.3.9	Transient frequency behaviour of the transmitter .....	17
5.4	Other radio test suites .....	17
5.4.1	Sensitivity (data or messages).....	17
5.4.2	Co-channel rejection .....	17
5.4.3	Adjacent channel selectivity .....	17
5.4.4	Spurious response rejection .....	17
5.4.5	Intermodulation response rejection .....	17
5.4.6	Blocking or desensitization .....	17
5.4.7	Spurious radiations.....	17
5.4.8	Desensitization and sensitivity (duplex).....	17
5.4.9	Spurious response rejection (duplex) .....	17

**Annex A (informative): Bibliography.....18**  
History ..... 19

---

## 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://www.etsi.org/ipr>).

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

The present document is part 2 of a multi-part deliverable covering the Land mobile service; Radio equipment intended for the transmission of data (and speech) and having an antenna connector, as identified below:

Part 1: "Technical characteristics and methods of measurement";

**Part 2: "Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive".**

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC (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 Directive 1999/5/EC of the European Parliament and of the Council relating to telecommunications terminal equipment and satellite earth station equipment, including the mutual recognition of their conformity ("Directive 1999/5/EC").

<b>National transposition dates</b>	
Date of adoption of this EN:	9 March 2001
Date of latest announcement of this EN (doa):	30 June 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 2001
Date of withdrawal of any conflicting National Standard (dow):	31 December 2002