

# Text Comparison

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# ~~ETSI EN 301 783-2~~ ~~V1.1.1~~ ~~(2000-09)~~

~~Candidate~~ Harmonized European Standard (Telecommunications series)

**Electromagnetic compatibility  
and Radio ~~Spectrum~~ Matters (ERM);  
Land Mobile Service;  
Commercially available amateur radio equipment;  
Part 2: Harmonized EN covering essential requirements  
~~under~~ article 3.2 of the R&TTE Directive**



# ETSI EN 301 783-2 V1.2.1 (2010-07)

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*Harmonized European Standard (Telecommunications series)*

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Land Mobile Service;  
Commercially available amateur radio equipment;  
Part 2: Harmonized EN covering the essential requirements  
of article 3.2 of the R&TTE Directive**

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**Reference**~~DEN/ERM-REP02-040-2~~

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**Keywords**~~Amateur~~, EMC, mobile, radio, regulation, service**ETSI**

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**Reference**

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REN/ERM-TG26-085-2

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**Keywords**

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amateur, EMC, mobile, radio, regulation, service**ETSI**

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## 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 ~~EN~~ covering the Electromagnetic compatibility and Radio ~~Spectrum~~ Matters (ERM); Land Mobile Service; Commercially available amateur radio equipment, as identified below:

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

**Part 2: "Harmonized EN ~~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 [5] 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 [1] 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").

<b>National transposition dates</b>	
Date of adoption of this EN:	28 <del>July 2000</del>
Date of latest announcement of this EN (doa):	<del>31 October 2000</del>
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	<del>30 April 2001</del>
Date of withdrawal of any conflicting National Standard (dow):	30 <del>April 2001</del>

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## 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 [i.2] (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 [i.1] 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").

Technical specifications relevant to Directive 1999/5/EC [i.1] are given in annex A.

The present document is part 2 of a multi-part deliverable covering the Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Commercially available amateur radio equipment, as identified below:

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

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

National transposition dates	
Date of adoption of this EN:	28 <u>June 2010</u>
Date of latest announcement of this EN (doa):	<u>30 September 2010</u>
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	<u>31 March 2011</u>
Date of withdrawal of any conflicting National Standard (dow):	30 <u>September 2011</u>

# Introduction

The present document is part of a set of standards designed to fit in a modular structure to cover all radio and telecommunications terminal equipment under the R&TTE Directive [1]. Each standard is a module in the structure. The modular structure is shown in figure 1.

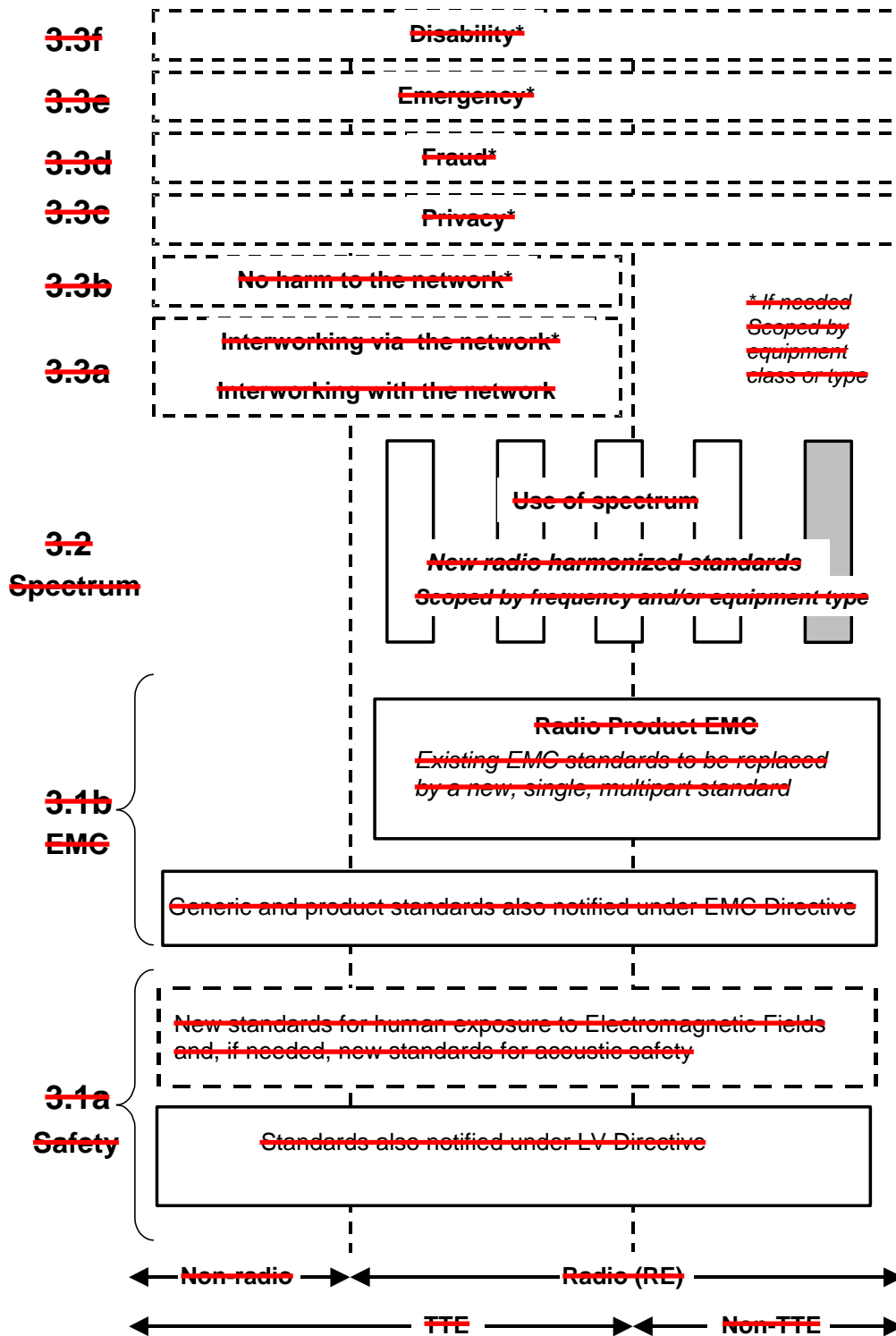


Figure 1. Modular structure for the various standards used under the R&TTE Directive [1]

---

# 1 Scope

The present document applies to the radio equipment as defined in EN 301 783-1 [1].

The present document is intended to cover the provisions of Directive 1999/5/EC [i.1] (R&TTE Directive) which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of Article 3 of the R&TTE Directive [i.1] may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site <http://www.newapproach.org>.

---

## 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 reference 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 301 783-1 (V1 2.1): "Electromagnetic compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Commercially available amateur radio equipment; Part 1: Technical characteristics and methods of measurement".

### 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications equipment and the mutual recognition of their conformity (R&TTE Directive).
- [i.2] 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.

---

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in the R&TTE Directive [i.1] and the following apply:

**environmental profile:** range of environmental conditions under which equipment within the scope of the present document is required to comply with the provisions of the present document.

The left hand edge of the figure 1 shows the different subclauses of Article 3 of the R&TTE Directive [1].

For article 3.3 various horizontal boxes are shown. Dotted lines indicate that at the time of publication of the present document essential requirements in these areas have to be adopted by the Commission. If such essential requirements are adopted, and as far and as long as they are applicable, they will justify individual standards whose scope is likely to be specified by function or interface type.

The vertical boxes show the standards under article 3.2 for the use of the radio spectrum by radio equipment. The scopes of these standards are specified either by frequency (normally in the case where frequency bands are harmonized) or by radio equipment type.

For article 3.1b the diagram shows the new single multipart product EMC standard for radio, and the existing collection of generic and product standards currently used under the EMC Directive [2]. The parts of this new standard will become available in the second half of 2000, and the existing separate product EMC standards will be used until it is available.

For article 3.1a the diagram shows the existing safety standards currently used under the LV Directive [3] and new standards covering human exposure to electromagnetic fields. New standards covering acoustic safety may also be required.

The bottom of the figure shows the relationship of the standards to radio equipment and telecommunications terminal equipment. A particular equipment may be radio equipment, telecommunications terminal equipment or both. A radio spectrum standard will apply if it is radio equipment. An article 3.3 standard will apply as well only if the relevant essential requirement under the R&TTE Directive [1] is adopted by the Commission and if the equipment in question is covered by the scope of the corresponding standard. Thus, depending on the nature of the equipment, the essential requirements under the R&TTE Directive [1] may be covered in a set of standards.

The modularity principle has been taken because:

- it minimizes the number of standards needed. Because equipment may, in fact, have multiple interfaces and functions it is not practicable to produce a single standard for each possible combination of functions that may occur in an equipment;
- it provides scope for standards to be added:
  - under article 3.2 when new frequency bands are agreed, or
  - under article 3.3 should the Commission take the necessary decisions;without requiring alteration of standards that are already published;
- it clarifies, simplifies and promotes the usage of Harmonized Standards as the relevant means of conformity assessment.

## 3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

R&TTE            Radio and Telecommunications Terminal Equipment

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# 4 Technical requirements specifications

## 4.1 Environmental profile

The environmental profile for operation of the equipment shall be declared by the supplier. The equipment shall comply with all the technical requirements of the present document at all times when operating within the boundary limits of the required operational environmental profile.

## 4.2 Conformance requirements

### 4.2.1 Conducted spurious emissions

#### 4.2.1.1 Antenna port in transmit mode

##### 4.2.1.1.1 Definition

Spurious emissions are defined in EN 301 783-1 [1], clause 5.2.1.

##### 4.2.1.1.2 Limits

The emissions of the antenna port in transmit mode shall not exceed the limits in EN 301 783-1 [1], clause 5.2.3, table 4.

##### 4.2.1.1.3 Conformance

Conformance tests as defined in clause 5.2.1 shall be carried out.

#### 4.2.1.2 Antenna port in receive or transmit standby mode

##### 4.2.1.2.1 Definition

Spurious emissions are defined in EN 301 783-1 [1], clause 5.2.1.

##### 4.2.1.2.2 Limits

The emissions of the antenna port in receive or transmit standby mode shall not exceed the limits in EN 301 783-1 [1], clause 5.2.3, table 5.

##### 4.2.1.2.3 Conformance

Conformance tests as defined in clause 5.2.1 shall be carried out.

---

# 1 Scope

The present document applies to the radio equipment as defined in EN 301 783-1 [~~4~~].

The present document is intended to cover the provisions of Directive 1999/5/EC [1] (R&TTE Directive) which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of Article 3 of the R&TTE Directive [1] may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site <http://www.newapproach.org>.

---

# 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.~~
- ~~For a specific reference, subsequent revisions do not apply.~~
- ~~For a non-specific reference, the latest version applies.~~
- ~~A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.~~

- [1] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications equipment and the mutual recognition of their conformity (R&TTE Directive).
- [2] ~~Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (EMC Directive).~~
- [3] ~~Council Directive 73/23/EEC of 19 February 1973 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits (LV Directive).~~
- [~~4~~] ETSI EN 301 783-1 (~~V1.1~~): "Electromagnetic compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Commercially available amateur radio equipment; Part 1: Technical characteristics and methods of measurement".
- [5] 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.

---

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions in the R&TTE Directive [~~4~~], and the following ~~terms and definitions apply.~~

**Environmental profile:** range of environmental conditions under which equipment within the scope of the present document is required to comply with the provisions of the present ~~document.~~

## 4.2.2 Radiated spurious emissions

### 4.2.2.1 Enclosure port in transmit mode

#### 4.2.2.1.1 Definition

Spurious emissions are defined in EN 301 783-1 [1], clause 5.2.1.

#### 4.2.2.1.2 Limits

The enclosure port emissions in transmit mode shall not exceed the limits in EN 301 783-1 [1], clause 5.2.3, table 6.

#### 4.2.2.1.3 Conformance

Conformance tests as defined in clause 5.2.2 shall be carried out.

### 4.2.2.2 Enclosure port in receive or transmit standby mode

#### 4.2.2.2.1 Definition

Spurious emissions are defined in EN 301 783-1 [1], clause 5.2.1.

#### 4.2.2.2.2 Limits

The enclosure port emissions in receive or transmit standby mode shall not exceed the limits in EN 301 783-1 [1], clause 5.2.3, table 7.

#### 4.2.2.2.3 Conformance

Conformance tests as defined in clause 5.2.2 shall be carried out.

## 4.2.3 Conducted RF immunity

### 4.2.3.1 Definition

The RF immunity of the equipment is defined in EN 301 783-1 [1], clause 5.3.1.

### 4.2.3.2 Limits

The RF immunity of the equipment shall not exceed the limits in EN 301 783-1 [1], clause 5.3.3.

### 4.2.3.3 Conformance

Conformance tests as defined in clause 5.3.1 may be carried out.



## 3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

<del>EMC</del>	<del>Electro-Magnetic Compatibility</del>
<del>LV</del>	<del>Low Voltage</del>
R&TTE	Radio and Telecommunications Terminal Equipment

---

## 4 Technical requirements specifications

### 4.1 Environmental profile

The environmental profile for operation of the equipment shall be declared by the supplier. The equipment shall comply with all the technical requirements of the present document at all times when operating within the boundary limits of the required operational environmental profile.

### 4.2 Conformance requirements

#### 4.2.1 ~~Unwanted emissions, conducted~~

##### 4.2.1.1 Antenna port in transmit mode

###### 4.2.1.1.1 Definition

~~The emissions of the antenna port in transmit mode, are defined in EN 301 783-1 [4] subclause 4.2.1.1.~~

###### 4.2.1.1.2 Limits

The emissions of the antenna port in transmit mode shall not exceed the limits in EN 301 783-1 [4], subclause 4.2.1.2, table 1.

###### 4.2.1.1.3 ~~Conformance~~

~~Conformance tests as defined in subclause 5.2.1 shall be carried out.~~

##### 4.2.1.2 Antenna port in receive or transmit standby mode

###### 4.2.1.2.1 Definition

~~The emissions of the antenna port in receive or transmit standby mode, are defined in EN 301 783-1 [4] subclause 4.2.1.1.~~

###### 4.2.1.2.2 Limits

The emissions of the antenna port in receive or transmit standby mode shall not exceed the limits in EN 301 783-1 [4], subclause 4.2.1.2, table 2.

###### 4.2.1.2.3 ~~Conformance~~

~~Conformance tests as defined in subclause 5.2.1 shall be carried out.~~

---

## 5 Testing for compliance with technical requirements

### 5.1 Environmental conditions for testing

#### 5.1.1 EUT test frequencies

Conformity tests shall be performed on the frequencies as described in EN 301 783-1 [1], clause 4.2.

### 5.2 Essential radio test suites

#### 5.2.1 Conducted spurious emissions

The measurements shall be performed as described in EN 301 783-1 [1], clause 5.2.2.1. The results obtained shall be compared to the limits in clauses 4.2.1.1.2 and 4.2.1.2.2 in order to prove compliance with the requirement.

#### 5.2.2 Radiated spurious emissions

The measurements shall be performed as described in EN 301 783-1 [1], clause 5.2.2.2. The results obtained shall be compared to the limits in clauses 4.2.2.2.2 and 4.2.2.1.2 in order to prove compliance with the requirement.

### 5.3 Other test specifications

#### 5.3.1 Conducted RF immunity

The measurements shall be performed as described in EN 301 783-1 [1], clause 5.3.2. The results obtained shall be compared to the limits in clause 4.2.3.2 in order to prove compliance with the requirement.

## ~~4.2.2 Unwanted emissions, radiated~~

### ~~4.2.2.1 Enclosure port in active mode~~

#### ~~4.2.2.1.1 Definition~~

~~The enclosure port emissions in active mode, are defined in EN 301 783-1 [4] subclause 4.2.2.1.~~

#### ~~4.2.2.1.2 Limits~~

~~The enclosure port emissions in active mode shall not exceed the limits in EN 301 783-1 [4], subclause 4.2.2.2, table 3.~~

#### ~~4.2.2.1.3 Conformance~~

~~Conformance tests as defined in subclause 5.2.2 shall be carried out.~~

### 4.2.2.2 Enclosure port in receive or transmit standby mode

#### 4.2.2.2.1 Definition

~~The enclosure port emissions in receive or transmit standby mode, are defined in EN 301 783-1 [4] subclause 4.2.2.1.~~

#### 4.2.2.2.2 Limits

The enclosure port emissions in receive or transmit standby mode shall not exceed the limits in EN 301 783-1 [4], subclause 4.2.2.2, table 4.

#### 4.2.2.2.3 Conformance

Conformance tests as defined in subclause 5.2.2 shall be carried out.

## 4.2.3 Conducted RF immunity

### 4.2.3.1 Definition

The RF immunity of the equipment is defined in EN 301 783-1 [4], subclause 4.2.3.1.

### 4.2.3.2 Limits

The RF immunity of the equipment shall not exceed the limits in EN 301 783-1 [4], subclause 4.2.3.2, table 5.

### ~~4.2.3.3 Conformance~~

~~Conformance tests as defined in subclause 5.3.1 may be carried out.~~

## Annex A (normative):

### HS Requirements and conformance Test specifications

#### Table (HS-RTT)

The HS Requirements and conformance Test specifications Table (HS-RTT) in table A 1 serves a number of purposes, as follows:

- it provides a statement of all the requirements in words and by cross reference to (a) specific clause(s) in the present document or to (a) specific clause(s) in (a) specific referenced document(s);
- it provides a statement of all the test procedures corresponding to those requirements by cross reference to (a) specific clause(s) in the present document or to (a) specific clause(s) in (a) specific referenced document(s);
- it qualifies each requirement to be either:
  - Unconditional: meaning that the requirement applies in all circumstances; or
  - Conditional: meaning that the requirement is dependant on the manufacturer having chosen to support optional functionality defined within the schedule.
- in the case of Conditional requirements, it associates the requirement with the particular optional service or functionality;
- it qualifies each test procedure to be either:
  - Essential: meaning that it is included with the Essential Radio Test Suite and therefore the requirement shall be demonstrated to be met in accordance with the referenced procedures;
  - Other: meaning that the test procedure is illustrative but other means of demonstrating compliance with the requirement are permitted.

**Table A 1- HS Requirements and conformance Test specifications Table (HS-RTT)**

<b><u>Harmonized Standard EN 301 783-2</u></b>						
<u>The following requirements and test specifications are relevant to the presumption of conformity under the article 3.2 of the R&amp;TTE Directive</u>						
<b><u>Requirement</u></b>			<b><u>Requirement Conditionality</u></b>		<b><u>Test Specification</u></b>	
<b><u>No</u></b>	<b><u>Description</u></b>	<b><u>Reference- Clause No</u></b>	<b><u>U/C</u></b>	<b><u>Condition</u></b>	<b><u>E/O</u></b>	<b><u>Reference- Clause No</u></b>
<b><u>1</u></b>	<b><u>Antenna port in transmit mode</u></b>	<b><u>4.2.1.1</u></b>	<b><u>U</u></b>		<b><u>E</u></b>	<b><u>5.2.1</u></b>
<b><u>2</u></b>	<b><u>Antenna port in receive or transmit standby mode</u></b>	<b><u>4.2.1.2</u></b>	<b><u>U</u></b>		<b><u>E</u></b>	<b><u>5.2.1</u></b>
<b><u>3</u></b>	<b><u>Enclosure port limits in transmit mode</u></b>	<b><u>4.2.2.1</u></b>	<b><u>U</u></b>		<b><u>E</u></b>	<b><u>5.2.2</u></b>
<b><u>4</u></b>	<b><u>Enclosure port limits in receive or transmit standby mode</u></b>	<b><u>4.2.2.2</u></b>	<b><u>U</u></b>		<b><u>E</u></b>	<b><u>5.2.2</u></b>
<b><u>5</u></b>	<b><u>Conducted RE immunity</u></b>	<b><u>4.2.3</u></b>	<b><u>U</u></b>		<b><u>O</u></b>	<b><u>5.3.1</u></b>

#### **Key to columns:**

##### **Requirement:**

**No** A unique identifier for one row of the table which may be used to identify a requirement or its test specification.

**Description** A textual reference to the requirement.

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## 5 Testing for compliance with technical requirements

### 5.1 Environmental conditions for testing

#### 5.1.1 EUT test frequencies

Conformity tests shall be performed on the frequencies as described in EN 301 783-1 [~~4~~, ~~subclause 5.1.1~~].

### ~~5.2 Essential radio test suites~~

#### ~~5.2.1 Unwanted emissions, conducted~~

The measurements shall be performed as described in EN 301 783-1 [~~4~~, ~~subclause 5.3.1~~]. The results obtained shall be compared to the limits in ~~subclauses 4.2.1.1.2 and 4.2.1.2.2~~ in order to prove compliance with the requirement.

#### ~~5.2.2 Unwanted emissions, radiated~~

The measurements shall be performed as described in EN 301 783-1 [~~4~~, ~~subclause 5.3.2~~]. The results obtained shall be compared to the limits in ~~subclauses 4.2.2.2.2 and 4.2.2.1.2~~ in order to prove compliance with the requirement.

### 5.3 Other test specifications

#### 5.3.1 Conducted RF immunity

The measurements shall be performed as described in EN 301 783-1 [~~4~~, ~~subclause 5.4.1~~]. The results obtained shall be compared to the limits in ~~subclause 4.2.3.2~~ in order to prove compliance with the requirement.

**Clause Number**      Identification of clause(s) defining the requirement in the present document unless another document is referenced explicitly.

**Requirement Conditionality:**

**I/C**                      Indicates whether the requirement is to be *unconditionally* applicable (I) or is *conditional* upon the manufacturer's claimed functionality of the equipment (C).

**Condition**            Explains the conditions when the requirement shall or shall not be applicable for a technical requirement which is classified "conditional".

**Test Specification:**

**E/O**                      Indicates whether the test specification forms part of the Essential Radio Test Suite (E) or whether it is one of the Other Test Suite (O).

**NOTE:**      All tests whether "E" or "O" are relevant to the requirements. Rows designated "E" collectively make up the Essential Radio Test Suite; those designated "O" make up the Other Test Suite; for those designated "X" there is no test specified corresponding to the requirement. The completion of all tests classified "E" as specified with satisfactory outcomes is a necessary condition for a presumption of conformity. Compliance with requirements associated with tests classified "O" or "X" is a necessary condition for presumption of conformity, although conformance with the requirement may be claimed by an equivalent test or by manufacturer's assertion supported by appropriate entries in the technical construction file.

**Clause Number**      Identification of clause(s) defining the test specification in the present document unless another document is referenced explicitly. Where no test is specified (that is, where the previous field is "X") this field remains blank.

## ~~Annex A (normative): The EN Requirements Table (EN-RT)~~

~~Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the EN-RT proforma in this annex so that it can be used for its intended purposes and may further publish the completed EN-RT.~~

~~The EN Requirements Table (EN-RT) serves a number of purposes, as follows:~~

- ~~it provides a tabular summary of all the requirements;~~
- ~~it shows the status of each EN-R, whether it is essential to implement in all circumstances (Mandatory), or whether the requirement is dependent on the supplier having chosen to support a particular optional service or functionality (Optional). In particular it enables the EN-Rs associated with a particular optional service or functionality to be grouped and identified;~~
- ~~when completed in respect of a particular equipment it provides a means to undertake the static assessment of conformity with the EN.~~

~~Table A.1. EN Requirements Table (EN-RT)~~

EN-Reference		EN 301 783-2			Comment
No.	Reference	EN-R (note)	Status		
1	4.2.1.1	Antenna port in transmit mode	M		
2	4.2.1.2	Antenna port in receive or transmit standby mode	M		
3	4.2.2.1	Enclosure port limits in active mode	M		
4	4.2.2.2	Enclosure port limits in receive or transmit standby mode	M		
5	4.2.3	Conducted RF immunity	⊖		

~~NOTE: These EN-Rs are justified under Article 3.2 of the R&TTE Directive.~~

### ~~Key to columns:~~

~~**No** Table entry number;~~

~~**Reference** Subclause reference number of conformance requirement within the present document;~~

~~**EN-R** Title of conformance requirement within the present document;~~

~~**Status** Status of the entry as follows:~~

~~M Mandatory, shall be implemented under all circumstances;~~

~~⊖ Optional, may be provided, but if provided shall be implemented in accordance with the requirements;~~

~~⊖<sub>n</sub> this status is used for mutually exclusive or selectable options among a set. The integer "n" shall refer to a unique group of options within the EN-RT. A footnote to the EN-RT shall explicitly state what the requirement is for each numbered group. For example, "It is mandatory to support at least one of these options"; or, "It is mandatory to support exactly one of these options".~~

~~**Comments** To be completed as required.~~

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## Annex B (informative): The EN title in the official languages

The enlargement of the European Union (EU) resulted in a requirement from the EU for a larger number of languages for the translation of the titles of Harmonized Standards and mandated ENs that are to be listed in the Official Journal to support the implementation of this legislation.

For this reason the title translation concerning the present document can be consulted via the [e-approval](#) application.



## ~~History~~

<del>Document history</del>		
<del>V1.1.1</del>	<del>March 2000</del>	<del>One-step Approval Procedure</del> <del>GAP 20000728: 2000-03-29 to 2000-07-28</del>
<del>V1.1.1</del>	<del>September 2000</del>	<del>Publication</del>

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## Annex C (informative): Bibliography

- ETSI LEG 201 399: "Electromagnetic compatibility and Radio spectrum Matters (ERM): A guide to the production of candidate Harmonized Standards for application under the R&TTE Directive"



## History

<b>Document history</b>		
<u>V1 1 1</u>	<u>September 2000</u>	<u>Publication</u>
<u>V1 2 1</u>	<u>July 2009</u>	<u>Public Enquiry</u> <u>PE 20091119:</u> <u>2009-07-22 to 2009-11-19</u>
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<u>V1 2 1</u>	<u>July 2010</u>	<u>Publication</u>