

# ETSI EN 300 422-2 V1.2.2 (2008-03)

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*Harmonized European Standard (Telecommunications series)*

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Wireless microphones  
in the 25 MHz to 3 GHz frequency range;  
Part 2: Harmonized EN covering essential requirements  
of article 3.2 of the R&TTE Directive**

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Reference

REN/ERM-TG17WG3-008-2

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Keywords

audio, radio, radio MIC, testing

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# Contents

Intellectual Property Rights .....	4
Foreword.....	4
Introduction .....	4
1 Scope .....	5
2 References .....	5
2.1 Normative references .....	6
2.2 Informative references.....	6
3 Definitions, symbols and abbreviations .....	6
3.1 Definitions .....	6
3.2 Symbols.....	6
3.3 Abbreviations .....	6
4 Technical requirements specifications .....	6
4.1 Environmental profile.....	6
4.2 Conformance requirements .....	7
4.2.1 Frequency stability.....	7
4.2.1.1 Definition .....	7
4.2.1.2 Limit.....	7
4.2.1.3 Conformance.....	7
4.2.2 Rated Output Power.....	7
4.2.2.1 Definition .....	7
4.2.2.2 Limit.....	7
4.2.2.3 Conformance.....	7
4.2.3 Necessary bandwidth .....	7
4.2.3.1 Definition .....	7
4.2.3.2 Limit.....	7
4.2.3.3 Conformance.....	7
4.2.4 Spurious emissions .....	7
4.2.4.1 Definition .....	7
4.2.4.2 Limit.....	7
4.2.4.3 Conformance.....	8
4.3 Receiver requirements.....	8
4.3.1 Spurious emissions .....	8
4.3.1.1 Definition .....	8
4.3.1.2 Limit.....	8
4.3.1.3 Conformance.....	8
5 Testing for compliance with technical requirements.....	8
5.1 Environmental conditions for testing .....	8
5.2 Interpretation of the measurement results .....	8
5.3 Essential radio test suites.....	9
5.3.1 Transmitter test suites .....	9
5.3.1.1 Frequency stability .....	9
5.3.1.2 Rated Output Power .....	9
5.3.1.3 Necessary bandwidth .....	9
5.3.1.4 Spurious emissions.....	9
5.3.2 Receiver test suites.....	9
5.3.2.1 Spurious emissions.....	9
<b>Annex A (normative): HS Requirements and conformance Test specifications Table (HS-RTT).....</b>	<b>10</b>
<b>Annex B (informative): The EN title in the official languages .....</b>	<b>12</b>
History .....	14

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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 [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 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 ("the R&TTE Directive") [2].

Technical specifications relevant to Directive 1999/5/EC [2] are given in annex A.

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 EN 300 422-1 [1].

National regulations on maximum power output will apply.

<b>National transposition dates</b>	
Date of adoption of this EN:	14 March 2008
Date of latest announcement of this EN (doa):	30 June 2008
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 2008
Date of withdrawal of any conflicting National Standard (dow):	31 December 2009

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## Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive. The modular structure is shown in EG 201 399 [4].

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# 1 Scope

The present document applies to equipment operating on radio frequencies between 25 MHz and 3 GHz, using analogue, digital and hybrid (using both analogue and digital modulation) modulation. The present document does not apply to radio microphones or in ear monitoring equipment employing Time Division Multiple Access (TDMA) modulation.

The present document applies to the following radio equipment types:

- 1) professional hand held radio microphones;
- 2) professional body worn radio microphones;
- 3) in ear monitoring systems, etc.;
- 4) consumer radio microphones;
- 5) tour guide systems;
- 6) Assistive Listening Devices (Aids for the handicapped).

The maximum power recommended for equipment covered by the present document is 250 mW (erp below 1 GHz and eirp above 1 GHz).

The present document is intended to cover the provisions of Directive 1999/5/EC (R&TTE Directive) [2],

Article 3.2, 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 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>.

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# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
  - for informative references.

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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 indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- [1] ETSI EN 300 422-1 (V1.3.2): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement".

## 2.2 Informative references

- [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] ETSI EG 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".
- [5] ETSI TR 100 028: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
- [6] ETSI TR 102 215: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Recommended approach, and possible limits for measurement uncertainty for the measurement of radiated electromagnetic fields above 1 GHz".

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## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 422-1 [1] apply.

### 3.2 Symbols

For the purposes of the present document, the symbols given in EN 300 422-1 [1] apply.

### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in EN 300 422-1 [1] apply.

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## 4 Technical requirements specifications

### 4.1 Environmental profile

The technical requirements of the present document apply under the environmental profile for operation of the equipment, which 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 declared operational environmental profile.

## 4.2 Conformance requirements

### 4.2.1 Frequency stability

#### 4.2.1.1 Definition

This shall be as defined in EN 300 422-1 [1], clause 3.1.

#### 4.2.1.2 Limit

The transmitter frequency error limit shall be as stated in EN 300 422-1 [1], clause 8.1.3.

#### 4.2.1.3 Conformance

Conformance tests as defined in clause 5.3.1.1 shall be carried out.

### 4.2.2 Rated Output Power

#### 4.2.2.1 Definition

This shall be as defined in EN 300 422-1 [1], clause 3.1.

#### 4.2.2.2 Limit

The rated output power shall be as stated in EN 300 422-1 [1], clause 8.2.3.

#### 4.2.2.3 Conformance

Conformance tests as defined in clause 5.3.1.2 shall be carried out.

### 4.2.3 Necessary bandwidth

#### 4.2.3.1 Definition

This shall be as defined in EN 300 422-1 [1], clause 3.1.

#### 4.2.3.2 Limit

The necessary bandwidth limit shall be as stated in EN 300 422-1 [1], clause 8.3.1.2 for analogue systems and clause 8.3.2.2 for digital systems.

#### 4.2.3.3 Conformance

Conformance tests as defined in clause 5.3.1.3 shall be carried out.

### 4.2.4 Spurious emissions

#### 4.2.4.1 Definition

This shall be as defined in EN 300 422-1 [1], clause 3.1.

#### 4.2.4.2 Limit

The spurious emissions limit shall be as stated in EN 300 422-1 [1], clause 8.4.3.

#### 4.2.4.3 Conformance

Conformance tests as defined in clause 5.3.1.4 shall be carried out.

### 4.3 Receiver requirements

#### 4.3.1 Spurious emissions

##### 4.3.1.1 Definition

This shall be as defined in EN 300 422-1 [1], clause 9.1.1.

##### 4.3.1.2 Limit

The spurious emissions limit shall be as stated in EN 300 422-1 [1], clause 9.1.5.

##### 4.3.1.3 Conformance

Conformance tests as defined in clause 5.3.2.1 shall be carried out.

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## 5 Testing for compliance with technical requirements

### 5.1 Environmental conditions for testing

Tests defined in the present document shall be carried out at representative points within the boundary limits of the declared operational environmental profile.

Where technical performance varies subject to environmental conditions, tests shall be carried out under a sufficient variety of environmental conditions (within the boundary limits of the declared operational environmental profile) to give confidence of compliance for the affected technical requirements.

### 5.2 Interpretation of the measurement results

The interpretation of the results recorded in a test report for the measurements described in the present document shall be as follows:

- the measured value related to the corresponding limit shall be used to decide whether an equipment meets the requirements of the present document;
- the value of the measurement uncertainty for the measurement of each parameter shall be included in the test report;
- the recorded value of the measurement uncertainty shall be, for each measurement, equal to or lower than the figures in table 1.

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with the principles contained within TR 100 028 [5] or TR 102 215 [6] as appropriate and shall correspond to an expansion factor (coverage factor)  $k = 1,96$  or  $k = 2$  (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).



Table 1 is based on such expansion factors.

**Table 1: Maximum measurement uncertainty**

Parameter	Uncertainty
RF frequency	$< \pm 1 \times 10^{-7}$
Audio Output power	$< \pm 0,5$ dB
Radiated RF power	$< \pm 6$ dB
Conducted RF power variations using a test fixture	$< \pm 0,75$ dB
Maximum frequency deviation:	
- within 300 Hz and 6 kHz of audio frequency	$< \pm 5$ %
- within 6 kHz and 25 kHz of audio frequency	$< \pm 3$ dB
Deviation limitation	$< \pm 5$ %
Radiated emission of transmitter, valid up to 12,75 GHz	$< \pm 6$ dB
Radiated emission of receiver, valid up to 12,75 GHz	$< \pm 6$ dB

## 5.3 Essential radio test suites

### 5.3.1 Transmitter test suites

#### 5.3.1.1 Frequency stability

The test specified in EN 300 422-1 [1], clause 8.1.1 shall be carried out for analogue systems and clause 8.1.2 for digital systems. The results obtained shall be compared to the limits in clause 4.2.1.2 in order to prove compliance with the requirement.

#### 5.3.1.2 Rated Output Power

The test specified in EN 300 422-1 [1], clauses 8.2.1 and 8.2.2 shall be carried out. The results obtained shall be compared to the limits in clause 4.2.2.2 in order to prove compliance with the requirement.

#### 5.3.1.3 Necessary bandwidth

The test specified in EN 300 422-1 [1], clause 8.3.1 shall be carried out for analogue systems and clause 8.3.2 for digital systems. The results obtained shall be compared to the limits in clause 4.2.3.2 in order to prove compliance with the requirement.

#### 5.3.1.4 Spurious emissions

The test specified in EN 300 422-1 [1], clause 8.4.2 shall be carried out. The results obtained shall be compared to the limits in clause 4.2.4.2 in order to prove compliance with the requirement.

### 5.3.2 Receiver test suites

#### 5.3.2.1 Spurious emissions

The test specified in EN 300 422-1 [1], clauses 9.1.2, 9.1.3 and 9.1.4 shall be carried out. The results obtained shall be compared to the limits in clause 4.3.1.2 in order to prove compliance with the requirement.

## 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 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>Harmonized Standard EN 300 422-2</b>						
The following requirements and test specifications are relevant to the presumption of conformity under article 3.2 of the R&TTE Directive						
<b>Requirement</b>			<b>Requirement Conditionality</b>		<b>Test Specification</b>	
<b>No</b>	<b>Description</b>	<b>Reference: Clause No</b>	<b>U/C</b>	<b>Condition</b>	<b>E/O</b>	<b>Reference: Clause No</b>
1	Frequency error	4.2.1	U		E	5.3.1.1
2	Rated Output Power	4.2.2	U		E	5.3.1.2
3	Necessary bandwidth	4.2.3	U		E	5.3.1.3
4	Spurious emissions (Transmitter)	4.2.4	U		E	5.3.1.4
5	Spurious emissions (Receiver)	4.3.1	U		E	5.3.2.1

### 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.

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

**Requirement Conditionality:**

- U/C** Indicates whether the requirement is to be *unconditionally* applicable (U) or is *conditional* upon the manufacturers 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 B (informative): The EN title in the official languages

Language	EN title
Bulgarian	Електромагнитна съвместимост и въпроси на радиоспектъра (ERM). Безжични микрофони в честотния обхват от 25 MHz до 3 GHz. Част 2: Хармонизиран европейски стандарт (EN) според член 3(2) от Директивата за радиосъоръжения и крайни далекосъобщителни устройства (R&TTE)
Czech	Elektromagnetická kompatibilita a rádiové spektrum (ERM) - Bezšňůrové mikrofony pracující v kmitočtovém rozsahu 25 MHz až 3 GHz - Část 2: Harmonizovaná EN pokrývající základní požadavky článku 3.2 Směrnice R&TTE
Danish	Elektromagnetisk kompatibilitet og radiospektrumanliggender (ERM); Trådløse mikrofoner i frekvensområdet 25 MHz til 3 GHz; Del 2: Harmoniseret EN, der dækker de væsentlige krav i R&TTE direktivets artikel 3.2
Dutch	Elektromagnetische compatibiliteit radiospectrumaangelegenheden (ERM); Draadloze microfoons werkend in de 25 MHz tot 3 GHz frequentie-band; Deel 2: Geharmoniseerde EN welke invulling geeft aan de essentiële eisen van artikel 3.2 van de R&TTE richtlijn
English	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
Estonian	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM); Raadiosagedusalas 25 MHz kuni 3 GHz töötavad raadiomikrofonid; Osa 2: Harmineeritud EN R&TTE direktiivi artikli 3.2 põhioüete alusel
Finnish	Sähkömagneettinen yhteensopivuus ja radiospektriasiat (ERM); Taajuusalueella 25 MHz - 3 GHz toimivat langattomat mikrofonit; Osa 2: Yhdenmukaistettu standardi (EN), joka kattaa R&TTE-direktiivin artiklan 3.2 mukaiset olennaiset vaatimukset
French	Télécommunications - CEM et spectre radioélectrique (ERM) - Microphones sans fil fonctionnant dans la bande de fréquences 25 MHz à 3 GHz - Partie 2 : EN harmonisée sous couvert de l'article 3.2 de la Directive R&TTE
German	Elektromagnetische Verträglichkeit und Funkspektrumanliegenheiten (ERM) - Drahtlose Mikrophone im Frequenzbereich von 25 MHz bis 3 GHz - Teil 2: Harmonisierte EN, die wesentliche Anforderungen nach Artikel 3.2 der R&TTE-Richtlinie enthält
Greek	Ηλεκτρομαγνητική Συμβατότητα και Θέματα Ραδιοφάσματος (ERM) - Ασυρματικά μικρόφωνα στην περιοχή συχνοτήτων 25 MHz ως 3 GHz - Μέρος 2: Εναρμονισμένο EN για την κάλυψη των ουσιαστών απαιτήσεων του άρθρου 3.2 της Οδηγίας R&TTE
Hungarian	Elektromágneses összeférhetőségi és rádióspektrumügyek (ERM). A 25 MHz-től 3 GHz-ig terjedő frekvenciasávban működő, vezeték nélküli mikrofonok. 2. rész: Az R&TTE-irányelv 3. cikke (2) bekezdésének alapvető követelményeit tartalmazó, harmonizált európai szabvány
Icelandic	
Italian	
Latvian	Elektromagnetiska saderība un radiofrekvencu spektra jautajumi (ERM); Bezvadu mikrofonu frekvencu joslas no 25 MHz līdz 3 GHz; 2. daļa: Harmonizēts Eiropas standarts (EN), kas atbilst R&TTE direktīvas 3.2.punkta būtiskajam prasībam
Lithuanian	Elektromagnetinio suderinamumo ir radijo dažnių spektro dalykai. Belaidžiai mikrofonai, veikiantys nuo 25 MHz iki 3 GHz dažnių diapazone. 2 dalis. Darnusis Europos standartas, apimantis esminius 1999/5/EC direktyvos 3.2 straipsnio reikalavimus
Maltese	Kompatibilità elettromanjetika u materji relatati ma' spettru radjofoniku (ERM); Mikrofonu bla fili fil-medda ta' frekwenza 25 MHz sa 3 GHz; Parti 2: EN armonizzata taht l-artiklu 3.2 tad-Direttiva R&TTE
Norwegian	Elektromagnetisk kompatibilitet og radiospektrums spørsmål (ERM); Trådløse mikrofoner i frekvensområdet 25 MHz til 3 GHz; Del 2: Harmonisert EN som dekker de grunnleggende kravene i R&TTE-direktivets artikkel 3.2
Polish	Kompatybilność elektromagnetyczna i zagadnienia widma radiowego (ERM) - Mikrofony bezprzewodowe pracujące w zakresie częstotliwości od 25 MHz do 3 GHz - Część 2: Zharmonizowana EN zapewniająca spełnienie zasadniczych wymagań zgodnie z artykułem 3.2 dyrektywy R&TTE
Portuguese	Assuntos de Espectro Radioelétrico e Compatibilidade Electromagnética (ERM); Microfones sem fios na faixa de frequências de 25 MHz a 3 GHz; Parte 2: EN Harmonizada cobrindo os requisitos essenciais no âmbito do artigo 3.º, n.º 2, da Directiva R&TTE
Romanian	
Slovak	Elektromagnetická kompatibilita a závislosti rádiového spektra (ERM). Bezdrôtové mikrofóny vo frekvenčnom rozsahu od 25 MHz do 3 GHz. Časť 2: Harmonizovaná EN vzťahujúca sa na základné požiadavky podľa článku 3.2 smernice R&TTE

Language	EN title
Slovenian	Elektromagnetna združljivost in zadeve v zvezi z radijskim spektrom (ERM) - Brežični mikrofoni v frekvenčnem območju od 25 MHz do 3 GHz - 2. del: Harmonizirani EN, ki zajema bistvene zahteve clena 3.2 direktive R&TTE
Spanish	Cuestiones de Compatibilidad Electromagnética y Equipo Radioeléctrico (ERM). Micrófonos inalámbricos de 25 MHz a 3 GHz. Parte 2: Norma Europea (EN) armonizada que cubre los requisitos esenciales según el artículo 3.2 de la Directiva RTTE.
Swedish	Elektromagnetisk kompatibilitet och radiospektrumfrågor (ERM); Trådlösa mikrofoner i frekvensområdet 25 MHz till 3 GHz; Del 2: Harmoniserad EN omfattande väsentliga krav enligt artikel 3.2 i R&TTE-direktivet

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## History

<b>Document history</b>		
Edition 1	December 1995	Published as I-ETS 300 422
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V1.2.2	January 2008	Vote V 20080314: 2008-01-14 to 2008-03-14
V1.2.2	March 2008	Publication