
Standard elektromagnetne združljivosti (EMC) za radijsko opremo in storitve - 9. del: Posebni pogoji za brezžične mikrofone, podobno opremo za radiofrekvenčne (RF) zvokovne povezave, brezžične zvokovne naprave, naprave za spremljanje stanja v ušesu in pomožne slušne aparate - Harmonizirani standardi za elektromagnetno združljivost

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services - Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio, in-ear monitoring and assistive listening devices - Harmonised Standards for ElectroMagnetic Compatibility

Posebni pogoji za brezžične mikrofone, podobno opremo za radiofrekvenčne (RF) avdio povezave, brezžične avdio naprave, naprave za spremljanje v ušesih in pomožne slušne naprave

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services - Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices -

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**ElectroMagnetic Compatibility (EMC) standard for radio
equipment and services;
Part 9: Specific conditions for wireless microphones, similar
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Harmonised Standards for ElectroMagnetic Compatibility**

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Foreword

This draft Harmonised European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI Standardisation Request deliverable Approval Procedure (SRdAP).

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.3] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [i.1].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

The present document is part 9 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
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Modal verbs terminology

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1 Scope

The present document specifies technical characteristics and methods of measurements for wireless microphones, similar RF audio link equipment, cordless audio (including low power Band II transmitters), in-ear monitoring, cochlear implant and assistive listening devices, intended for the transmission of music and speech including the associated ancillary equipment in respect of electromagnetic compatibility, as detailed in table 1.

Technical specifications related to the antenna port and emissions from the enclosure port of the radio equipment are out of scope of the present document. Such technical specifications are found in the relevant product standards for the effective use of the radio spectrum, see table 1.

The present document specifies the applicable test conditions, performance assessment and performance criteria for wireless microphones, similar RF audio link equipment, cordless audio, in-ear monitoring, ALD and Cochlear Implants and associated ancillary equipment. This equipment can use analogue or digital modulation techniques.

Low quality speech applications as toy microphones, baby phones etc. operating at frequencies below 50 MHz, occupied bandwidth < 25 kHz and operating according to CEPT/ERC/REC 70-03 [i.2], Annex 1 are out of scope of the present document.

Table 1: Radio Technologies in scope of the present document

Technology	ETSI Standard
Wireless Microphones In-Ear Monitoring Wireless Multichannel Audio Systems	ETSI EN 300 422-1 [2]
Assistive Listening Devices Cochlear Implants Neck loops-T-Coil Personal Sound Amplifiers Hearing Aid Systems	ETSI EN 300 422-4 [i.13]
Cordless Audio Low Power FM Tx Low Power Radio Microphones In-Ear Monitoring	ETSI EN 301 357-1 [i.12]
Audio Links	ETSI EN 300 454-1 [i.11]

For cochlear implants more stringent EMC standards exist and Annex E provides information on its relationship to the present document.

NOTE 1: Technical specifications related to conducted emission EMC requirements below 9 kHz on the AC mains port of radio equipment are out of scope of the present document. Such technical specifications are normally found in the relevant product family standards for AC mains powered equipment (e.g. EN 61000-3-2 [i.6] and EN 61000-3-3 [i.7]).

NOTE 2: The relationship between the present document and essential requirements of article 3.1(b) of Directive 2014/53/EU [i.1] is given in Annex A.

2 References

2.1 Normative 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.

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