

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Short Range Devices (SRD);
Radio equipment to be used
in the 40 GHz to 246 GHz frequency range;
Part 1: Technical characteristics and test methods**

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Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope	6
2 References	6
2.1 Normative references	7
2.2 Informative references.....	7
3 Definitions, symbols and abbreviations	7
3.1 Definitions.....	7
3.2 Symbols.....	8
3.3 Abbreviations	9
4 Technical requirements specifications	9
4.1 General requirements	9
4.1.1 Receiver category	9
4.2 Presentation of equipment for testing purposes.....	10
4.2.1 Choice of model for testing	10
4.2.2 Testing of equipment with alternative power levels	10
4.3 Mechanical and electrical design.....	10
4.3.1 General.....	10
4.3.2 Controls	10
4.3.3 Transmitter shut-off facility.....	10
4.3.4 Receiver automatic switch-off.....	11
4.3.5 Marking (equipment identification).....	11
4.3.5.1 Equipment identification.....	11
4.3.5.2 Marking.....	11
4.4 Auxiliary test equipment	11
4.5 General requirements for RF cables	11
4.6 RF waveguides	12
4.7 External harmonic mixers	13
4.7.1 Introduction.....	13
4.7.2 Signal identification.....	14
4.7.3 Measurement hints	14
4.8 Interpretation of the measurement results	14
4.8.1 Conversion loss data and measurement uncertainty	15
5 Test conditions, power sources and ambient temperatures	16
5.1 Normal and extreme test conditions	16
5.2 Test power source.....	16
5.2.1 External test power source	16
5.2.2 Internal test power source	17
5.3 Normal test conditions.....	17
5.3.1 Normal temperature and humidity	17
5.3.2 Normal test power source	17
5.3.2.1 Mains voltage.....	17
5.3.2.2 Other power sources.....	17
5.4 Extreme test conditions	17
5.4.1 Extreme temperatures	17
5.4.2 Extreme test source voltages.....	17
5.4.2.1 Mains voltage	17
5.4.2.2 Regulated lead-acid battery power sources	18
5.4.2.3 Power sources using other types of batteries.....	18
5.4.2.4 Other power sources.....	18
6 General conditions.....	18
6.1 Normal test signals and test modulation.....	18
6.1.1 Normal test signals for data	19

6.1.2	Product Information.....	19
6.1.3	Testing of frequency agile or hopping equipment	19
6.2	Test sites and general arrangements for radiated measurements	19
6.2.1	Test fixture.....	19
6.2.1.1	Requirements	19
6.2.1.2	Calibration.....	20
6.2.1.3	Test Sites and general arrangement.....	21
6.2.1.3.1	Open Area Test Site (OATS).....	21
6.2.1.3.2	Other test sites	22
6.2.1.3.3	Semi-Anechoic Rooms with a conductive Ground Plane.....	22
6.2.1.3.4	Fully Anechoic Rooms (FAR).....	23
6.2.1.3.5	Minimum requirements for test sites for measurements above 18 GHz.....	25
6.3	Measuring receiver	26
6.4	Antennas.....	27
6.4.1	Test antenna	27
6.4.2	Substitution antenna.....	27
6.4.3	Signalling antenna	28
7	Methods of measurement and limits for transmitter parameters	28
7.1	Spectral power density	28
7.1.1	Definition.....	28
7.1.2	Limit	28
7.1.3	Conformance.....	28
7.2	RF output power.....	30
7.2.1	Definition.....	30
7.2.2	Limit	30
7.2.3	Conformance.....	30
7.3	Permitted range of operating frequencies.....	31
7.3.1	Definition.....	31
7.3.2	Method of measurement	31
7.3.3	Method of measurement for equipment using FHSS modulation.....	32
7.3.4	Limit	32
7.4	Unwanted emissions in the spurious domain.....	32
7.4.1	Definition.....	32
7.4.2	Method of measurement - radiated unwanted emissions	33
7.4.3	Limits.....	34
8	Receiver.....	34
8.1	Unwanted emissions.....	34
8.1.1	Definition.....	34
8.1.2	Method of measurement radiated unwanted components	34
8.1.3	Limits.....	35

Annex A (normative): Radiated measurements36

A.1	Substitution method.....	36
A.1.1	Principle of the substitution measurement method.....	36
A.2	Pre-Substitution method.....	37
A.2.1	Principle of radiated power measurement based on site attenuation (Pre-Substitution).....	37

Annex B (informative): Atmospheric absorptions and material dependent attenuations.....39

B.1	Atmospheric absorptions.....	39
B.2	Material dependent attenuations.....	41

Annex C (informative): Bibliography.....43

History	44
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Foreword

This final draft European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM), and is now submitted for the Vote phase of the ETSI standards Two-step Approval Procedure.

The present document is part 1 of a multi-part deliverable covering Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range, as identified below:

Part 1: "Technical characteristics and test methods";

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

For non EEA countries the present document may be used for regulatory (type approval) purposes.

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
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

The present document applies to the following Short Range Device major equipment types:

- Generic Short Range Devices, including alarms, telecommand, telemetry, data transmission in general, etc.

These radio equipment types are capable of operating in frequency bands within the 40 GHz to 246 GHz range as specified in table 1:

- either with a Radio Frequency (RF) output connection and dedicated antenna or with an integral antenna;
- for all types of modulation.

Table 1 shows a list of the frequency bands as designated in the CEPT/ERC Recommendation 70-03 [i.1] as known at the date of publication of the present document.

NOTE 1: Table 1 represents the most widely implemented position within the CEPT countries [i.1], but it should not be assumed that all designated bands are available in all countries. It is also foreseen that these frequencies may be implemented in [i.2], [i.3] and [i.4] in the future.

Table 1: Short Range Devices within the 40 GHz to 246 GHz frequency range

Frequency Bands (Transmit and Receive)	Applications	Notes
57 GHz to 66 GHz	Non-specific SRD	CEPT-ECC and European Commission regulatory implementation is under discussion
61,0 GHz to 61,5 GHz	Non-specific SRD	
122 GHz to 123 GHz	Non-specific SRD	
244 GHz to 246 GHz	Non-specific SRD	

NOTE 2: In addition, it should be noted that other frequency bands may be available for short range devices in a country within the frequency range 40 GHz to 246 GHz covered by the present document. See the CEPT/ERC Recommendation 70-03 [i.1] or as implemented through National Radio Interfaces (NRI) and additional NRI as relevant.

NOTE 3: On non-harmonized parameters, national administrations may impose certain conditions such as the type of modulation, frequency, channel/frequency separations, maximum transmitter radiated power, duty cycle, and the inclusion of an automatic transmitter shut-off facility, as a condition for the issue of an individual or general licence, or as a condition for the issuing of Individual Rights for use of spectrum or General Authorization, or as a condition for use "under licence exemption" as it is in most cases for Short Range Devices.

The present document covers fixed stations, mobile stations and portable stations.

2 References

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