

# ETSI EN 301 511 V12.5.1 (2017-03)



HARMONISED EUROPEAN STANDARD

**Global System for Mobile communications (GSM);  
Mobile Stations (MS) equipment;  
Harmonised Standard covering the essential requirements  
of article 3.2 of Directive 2014/53/EU**

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**Reference**REN/MSG-0020-RED

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**Keywords**cellular, ER-GSM, GSM, mobile, R-GSM

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# Contents

Intellectual Property Rights .....	6
Foreword.....	6
Modal verbs terminology.....	6
Introduction .....	6
1 Scope .....	7
2 References .....	8
2.1 Normative references .....	8
2.2 Informative references.....	8
3 Definitions and abbreviations.....	9
3.1 Definitions.....	9
3.2 Abbreviations .....	10
4 Technical requirements specifications .....	10
4.1 Environmental profile.....	10
4.2 Conformance requirements .....	10
4.2.0 Introduction.....	10
4.2.1 Transmitter - Frequency error and phase error .....	12
4.2.2 Transmitter - Frequency error under multipath and interference conditions .....	12
4.2.3 Transmitter - Frequency error and phase error in HSCSD multislot configuration .....	13
4.2.4 Frequency error and phase error in GPRS multislot configuration.....	13
4.2.5 Transmitter output power and burst timing.....	13
4.2.6 Transmitter - Output RF spectrum.....	13
4.2.7 Transmitter output power and burst timing in HSCSD multislot configurations.....	13
4.2.8 Transmitter - Output RF spectrum in HSCSD multislot configuration.....	13
4.2.9 Transmitter - Output RF spectrum for MS supporting the R-GSM or ER-GSM frequency band .....	13
4.2.10 Transmitter output power in GPRS multislot configuration .....	13
4.2.11 Output RF spectrum in GPRS multislot configuration .....	13
4.2.12 Conducted spurious emissions - MS allocated a channel .....	13
4.2.13 Conducted spurious emissions - MS in idle mode.....	13
4.2.14 Conducted spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS allocated a channel.....	13
4.2.15 Conducted spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS in idle mode .....	14
4.2.16 Radiated spurious emissions - MS allocated a channel .....	14
4.2.17 Radiated spurious emissions - MS in idle mode .....	14
4.2.18 Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS allocated a channel.....	14
4.2.19 Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS in idle mode .....	14
4.2.20 Receiver Blocking and spurious response - speech channels .....	14
4.2.21 Receiver Blocking and spurious response - speech channels for MS supporting the R-GSM or ER- GSM frequency band.....	14
4.2.22 Improved Receiver Blocking and spurious response - speech channels for 8W MS supporting the R- GSM or ER-GSM frequency band.....	14
4.2.23 Improved Receiver Blocking and spurious response - speech channels for 2W MS supporting the R- GSM or ER-GSM frequency band.....	14
4.2.24 Improved Receiver Blocking and spurious response - control channels for 8W MS supporting the R- GSM or ER-GSM frequency band not supporting speech.....	14
4.2.25 Improved Receiver Blocking and spurious response - control channels for 2W MS supporting the R- GSM or ER-GSM frequency band not supporting speech.....	15
4.2.26 Frequency error and Modulation accuracy in EGPRS Configuration.....	15
4.2.27 Frequency error under multipath and interference conditions in EGPRS Configuration.....	15
4.2.28 EGPRS Transmitter output power .....	15
4.2.29 Output RF spectrum in EGPRS configuration .....	15
4.2.30 Blocking and spurious response in EGPRS configuration.....	15

4.2.31	Blocking and spurious response in DLMC configuration.....	15
4.2.32	Intermodulation rejection - speech channels.....	15
4.2.33	Intermodulation rejection - control channels .....	15
4.2.34	Intermodulation rejection - EGPRS .....	15
4.2.35	AM suppression - speech channels.....	15
4.2.36	AM suppression - control channels.....	15
4.2.37	AM suppression - packet channels .....	15
4.2.38	Adjacent channel rejection - speech channels (TCH/FS).....	16
4.2.39	Adjacent channel rejection - control channels .....	16
4.2.40	Adjacent channel rejection - EGPRS .....	16
4.2.41	Adjacent channel rejection in DLMC configuration.....	16
4.2.42	Reference sensitivity - TCH/FS .....	16
4.2.43	Reference sensitivity - FACCH/F.....	16
4.2.44	Minimum Input level for Reference Performance - GPRS .....	16
4.2.45	Minimum Input level for Reference Performance - EGPRS.....	16
4.2.46	Reference sensitivity - TCH/FS for MS supporting the R-GSM or ER-GSM band .....	16
5	Testing for compliance with technical requirements.....	16
5.1	Environmental conditions for testing .....	16
5.2	Interpretation of the measurement results .....	17
5.3	Essential radio test suites.....	17
5.3.1	Transmitter - Frequency error and phase error .....	17
5.3.2	Transmitter - Frequency error under multipath and interference conditions .....	17
5.3.3	Transmitter - Frequency error and phase error in HSCSD multislot configuration .....	17
5.3.4	Frequency error and phase error in GPRS multislot configuration.....	17
5.3.5	Transmitter output power and burst timing.....	17
5.3.6	Transmitter - Output RF spectrum.....	17
5.3.7	Transmitter output power and burst timing in HSCSD multislot configurations.....	17
5.3.8	Transmitter - Output RF spectrum in HSCSD multislot configuration.....	17
5.3.9	Transmitter - Output RF spectrum for MS supporting the R-GSM or ER-GSM frequency band .....	18
5.3.10	Transmitter output power in GPRS multislot configuration .....	18
5.3.11	Output RF spectrum in GPRS multislot configuration .....	18
5.3.12	Conducted spurious emissions - MS allocated a channel .....	18
5.3.13	Conducted spurious emissions - MS in idle mode .....	18
5.3.14	Conducted spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS allocated a channel.....	18
5.3.15	Conducted spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS in idle mode .....	18
5.3.16	Radiated spurious emissions - MS allocated a channel .....	18
5.3.17	Radiated spurious emissions - MS in idle mode .....	18
5.3.18	Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS allocated a channel.....	18
5.3.19	Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency band - MS in idle mode .....	18
5.3.20	Receiver Blocking and spurious response - speech channels .....	18
5.3.21	Receiver Blocking and spurious response - speech channels for MS supporting the R-GSM or ER-GSM frequency band.....	19
5.3.22	Improved Receiver Blocking and spurious response - speech channels for 8W MS supporting the R-GSM or ER-GSM frequency band.....	19
5.3.23	Improved Receiver Blocking and spurious response - speech channels for 2W MS supporting the R-GSM or ER-GSM frequency band.....	19
5.3.24	Improved Receiver Blocking and spurious response - control channels for 8W MS supporting the R-GSM or ER-GSM frequency band not supporting speech.....	19
5.3.25	Improved Receiver Blocking and spurious response - control channels for 2W MS supporting the R-GSM or ER-GSM frequency band not supporting speech.....	19
5.3.26	Frequency error and Modulation accuracy in EGPRS Configuration.....	19
5.3.27	Frequency error under multipath and interference conditions in EGPRS Configuration.....	19
5.3.28	EGPRS Transmitter output power .....	19
5.3.29	Output RF spectrum in EGPRS configuration.....	19
5.3.30	Blocking and spurious response in EGPRS configuration.....	19
5.3.31	Blocking and spurious response in DLMC configuration.....	19
5.3.32	Intermodulation rejection - speech channels.....	20

5.3.33	Intermodulation rejection - speech channels.....	20
5.3.34	Intermodulation rejection - EGPRS .....	20
5.3.35	AM suppression - speech channels .....	20
5.3.36	AM suppression - control channels.....	20
5.3.37	AM suppression - packet channels .....	20
5.3.38	Adjacent channel rejection - speech channels (TCH/FS).....	20
5.3.39	Adjacent channel rejection - control channels .....	20
5.3.40	Adjacent channel rejection - EGPRS .....	20
5.3.41	Adjacent channel rejection in DLMC configuration.....	20
5.3.42	Reference sensitivity - TCH/FS .....	20
5.3.43	Reference sensitivity - FACCH/F.....	20
5.3.44	Minimum Input level for Reference Performance - GPRS .....	20
5.3.45	Minimum Input level for Reference Performance - EGPRS.....	20
5.3.46	Reference sensitivity - TCH/FS for MS supporting the R-GSM or ER-GSM band .....	21
<b>Annex A (informative):</b>	<b>Relationship between the present document and the essential requirements of Directive 2014/53/EU .....</b>	<b>22</b>
<b>Annex B (informative):</b>	<b>Type of Mobile Stations.....</b>	<b>25</b>
<b>Annex C (informative):</b>	<b>Additional information.....</b>	<b>26</b>
<b>Annex D (informative):</b>	<b>Change history .....</b>	<b>27</b>
History .....		28

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## Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Mobile Standards Group (MSG).

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.10] 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.9].

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.

National transposition dates	
Date of adoption of this EN:	13 March 2017
Date of latest announcement of this EN (doa):	30 June 2017
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 2017
Date of withdrawal of any conflicting National Standard (dow):	31 December 2018

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## Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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## Introduction

The present document is part of a set of standards developed by ETSI that are designed to fit in a modular structure to cover radio equipment within the scope of the Radio Equipment Directive [i.9]. The present document is produced following the guidance in ETSI EG 203 336 [i.12] as applicable.

# 1 Scope

The present document specifies technical characteristics and methods of measurements for the following radio equipment type:

- GSM mobile station.

This radio equipment type is for operation within the Digital cellular telecommunications system in the GSM 900 and/or GSM 1800 frequency bands as shown in table 1, with a channel separation of 200 kHz, utilizing constant envelope modulation and carrying traffic channels according to the Time Division Multiple Access (TDMA) principle.

**Table 1: Frequency bands for GSM 900 and GSM 1800 Mobile Station system**

Type	TX	RX
<b>P-GSM 900</b>	890 MHz to 915 MHz	935 MHz to 960 MHz
<b>GSM 1800</b>	1 710 MHz to 1 785 MHz	1 805 MHz to 1 880 MHz
<b>E-GSM 900</b>	880 MHz to 915 MHz	925 MHz to 960 MHz
<b>R-GSM 900</b>	876 MHz to 915 MHz	921 MHz to 960 MHz
<b>ER-GSM 900</b>	873 MHz to 915 MHz	918 MHz to 960 MHz

The present document covers the essential requirements of article 3.2 of Directive 2014/53/EU [i.9] under the conditions identified in annex A.

The present document covers the general access requirements for terminal equipment up to and including 3GPP Rel-12. The general access requirements, applied to the terminal equipment, are for one release only. The present document does not cover the GPRS Class A mobiles and the ECSD mobiles.

For each test purpose and its corresponding conformance requirement, a reference is given to the test method in ETSI TS 151 010-1 [2]. The requirements apply at the air interface, which may be stimulated to perform the tests by additional equipment if necessary.

The measurement uncertainty is described in ETSI TS 151 010-1 [2], annex 5.

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 Radio Equipment Directive [i.9] will apply to equipment within the scope of the present document.

NOTE 1: A list of such ENs is included on the web site <http://www.newapproach.org>.

ETSI TS 151 010-1 [2] constitutes the conformance test suite for GSM. The verification of the conformance requirements in the present document is based on the tests described in this reference. The set of requirements in ETSI TS 151 010-1 [2] and the set of requirements in the present document need not be identical.

Some requirements only apply to specific types of mobile station (e.g. data tests only apply to mobile stations with a data facility, tests that only apply to GSM 900 or only to GSM 1800 or to both). The present document indicates the specific test which should be carried out for each mobile station type.

An active accessory is covered by the present document if it modifies the terminal performance in an aspect which affects conformance to essential requirements.

NOTE 2: Only active devices are subject to the present document. Accessories may be tested with specific terminals, and either approved for use with those terminals only, or may possibly be approved for use with a wider range of terminals, depending on the nature and effect of the accessory.