

**Global System for Mobile communications (GSM);
Part 4: Harmonized EN for GSM Repeaters
covering the essential requirements
of article 3.2 of the R&TTE Directive**

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ETSI EN 300 609-4 V9.2.0 \(2010-08\)](https://standards.iteh.ai/catalog/standards/etsi/874009a5-3949-4012-9fc1-3e9a4442bf8f/etsi-en-300-609-4-v9-2-0-2010-08)

<https://standards.iteh.ai/catalog/standards/etsi/874009a5-3949-4012-9fc1-3e9a4442bf8f/etsi-en-300-609-4-v9-2-0-2010-08>



ReferenceREN/MSG-00003

KeywordsGSM, repeater

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iteh Standards
(<https://standards.iteh.ai>)
Document Preview

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2010.
All rights reserved.

DECTTM, PLUGTESTSTM, UMTSTM, TIPHONTM, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPPTM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

LTETM is a Trade Mark of ETSI currently being registered

for the benefit of its Members and of the 3GPP Organizational Partners.

GSM[®] and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	5
Foreword.....	5
Introduction	5
1 Scope	6
2 References	6
2.1 Normative references	7
2.2 Informative references.....	7
3 Definitions and abbreviations.....	7
3.1 Definitions.....	7
3.2 Abbreviations	8
4 Technical requirements specifications	8
4.1 Environmental profile.....	8
4.2 Conformance requirements	8
4.2.1 Conducted spurious emissions.....	8
4.2.1.1 Definition	8
4.2.1.2 Limit.....	8
4.2.1.3 Conformance.....	9
4.2.2 Radiated spurious emissions.....	9
4.2.2.1 Definition	9
4.2.2.2 Limit.....	9
4.2.2.3 Conformance.....	10
4.2.3 Intermodulation attenuation.....	10
4.2.3.1 Definition	10
4.2.3.2 Limit.....	10
4.2.3.3 Conformance.....	10
4.2.4 Out-of-band gain.....	10
4.2.4.1 Definition	10
4.2.4.2 Limit.....	11
4.2.4.3 Conformance.....	11
4.2.5 Frequency error.....	11
4.2.5.1 Definition	11
4.2.5.2 Limit.....	11
4.2.5.3 Conformance.....	11
4.2.6 Modulation accuracy at GMSK modulation	11
4.2.6.1 Definition	11
4.2.6.2 Limit.....	11
4.2.6.3 Conformance.....	11
4.2.7 Modulation accuracy at 8-PSK, QPSK, 16-QAM or 32-QAM modulation	12
4.2.7.1 Definition	12
4.2.7.2 Limit.....	12
4.2.7.3 Conformance.....	12
5 Testing for compliance with technical requirements.....	12
5.1 Environmental conditions for testing	12
5.2 Interpretation of the measurement results	12
5.3 Essential radio test suites.....	13
5.3.1 Conducted spurious emissions.....	13
5.3.1.1 Initial conditions	13
5.3.1.2 Procedures	13
5.3.2 Radiated spurious emissions.....	14
5.3.2.1 Initial conditions	14
5.3.2.2 Procedures.....	14
5.3.3 Intermodulation attenuation.....	14
5.3.3.1 Initial conditions	14

5.3.3.2	Procedures	14
5.3.4	Out-of-band gain.....	15
5.3.4.1	Initial conditions	15
5.3.4.2	Procedures.....	15
5.3.5	Frequency error.....	16
5.3.5.1	Initial conditions	16
5.3.5.2	Procedures.....	16
5.3.6	Modulation accuracy at GMSK modulation	16
5.3.6.1	Initial conditions	16
5.3.6.2	Procedures.....	16
5.3.7	Modulation accuracy at 8-PSK, QPSK, 16-QAM or 32-QAM modulation	17
5.3.7.1	Initial conditions	17
5.3.7.2	Procedures.....	17
Annex A (normative):	HS Requirements and conformance Test specifications Table (HS-RTT).....	18
Annex B (informative):	Environmental profile specification	20
Annex C (informative):	Testing of gain for part band repeaters	21
C.1	Rationale for this test.....	21
C.2	Gain outside pass band.....	21
C.2.1	Test purpose	21
C.2.2	Test case	21
C.2.3	Conformance requirement.....	21
Annex D (informative):	The EN title in the official languages	22
Annex E (informative):	Bibliography.....	23
History		24

ETSI EN 300 609-4 V9.2.0 (2010-08)

<https://standards.iteh.ai/catalog/standards/etsi/874009a5-3949-4012-9fc1-3e9a4442bf8f/etsi-en-300-609-4-v9-2-0-2010-08>