



**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Portable Very High Frequency (VHF) radiotelephone
equipment for the maritime mobile service operating
in the VHF bands with integrated handheld class D DSC;
Part 3: Harmonized EN covering the essential requirements
of article 3.3(e) of the R&TTE Directive**

Reference

DEN/ERM-TG26-086-3

Keywords

DSC, maritime, radio, VHF

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

(<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 2011.
All rights reserved.

DECTTM, PLUGTESTSTM, UMTSTM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPPTM and LTETM are Trade Marks of ETSI 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	6
Foreword.....	6
Introduction	6
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references	7
3 Definitions and abbreviations.....	8
3.1 Definitions	8
3.2 Abbreviations	8
4 Technical requirements specifications	8
4.1 Environmental profile.....	8
4.2 General, operational and technical requirements.....	9
4.2.1 General and operational requirements	9
4.2.1.1 Requirements	9
4.2.1.2 Conformance.....	9
4.2.2 Technical requirements	9
4.2.2.1 Requirements	9
4.2.2.2 Conformance.....	9
4.3 Environmental requirements	9
4.3.1 Drop test	9
4.3.1.1 Definition	9
4.3.1.2 Requirement	9
4.3.1.3 Conformance.....	9
4.3.2 Temperature tests	9
4.3.2.1 Definition	9
4.3.2.2 Dry heat.....	9
4.3.2.2.1 Definition.....	9
4.3.2.2.2 Requirement	10
4.3.2.2.3 Conformance	10
4.3.2.3 Damp heat	10
4.3.2.3.1 Definition.....	10
4.3.2.3.2 Requirement	10
4.3.2.3.3 Conformance	10
4.3.2.4 Low temperature	10
4.3.2.4.1 Definition.....	10
4.3.2.4.2 Requirement	10
4.3.2.4.3 Conformance	10
4.4 Conformance requirements	10
4.4.1 Sensitivity of the modulator, including microphone.....	10
4.4.1.1 Definition	10
4.4.1.2 Limit.....	10
4.4.1.3 Conformance	10
4.4.2 Audio frequency response	11
4.4.2.1 Definition	11
4.4.2.2 Limit.....	11
4.4.2.3 Conformance.....	11
4.4.3 Audio frequency harmonic distortion of the emission.....	11
4.4.3.1 Definition	11
4.4.3.2 Limit.....	11
4.4.3.3 Conformance.....	11
4.4.4 Residual modulation of the transmitter	11
4.4.4.1 Definition	11

4.4.4.2	Limit.....	11
4.4.4.3	Conformance.....	11
4.4.5	Harmonic distortion and rated audio-frequency output power	11
4.4.5.1	Definition	11
4.4.5.2	Limit.....	11
4.4.5.3	Conformance.....	11
4.4.6	Receiver audio frequency response	12
4.4.6.1	Definition	12
4.4.6.2	Limit.....	12
4.4.6.3	Conformance.....	12
4.4.7	Receiver noise and hum level	12
4.4.7.1	Definition	12
4.4.7.2	Limit.....	12
4.4.7.3	Conformance.....	12
4.4.8	Squelch operation	12
4.4.8.1	Definition	12
4.4.8.2	Limit.....	12
4.4.8.3	Conformance.....	12
4.4.9	Squelch hysteresis.....	12
4.4.9.1	Definition	12
4.4.9.2	Limit.....	12
4.4.9.3	Conformance.....	12
4.4.10	Receiver scanning efficiency	13
4.4.10.1	Definition	13
4.4.10.2	Limit.....	13
4.4.10.3	Conformance.....	13
5	Testing for compliance with technical requirements.....	13
5.1	Test conditions, power supply and ambient temperatures.....	13
5.2	Interpretation of the measurement results	13
5.3	Essential radio test suites.....	14
5.3.1	Environmental tests.....	14
5.3.1.1	Introduction.....	14
5.3.1.2	Procedure	14
5.3.1.3	Performance check.....	14
5.3.1.4	Drop test.....	14
5.3.1.4.1	Definition.....	14
5.3.1.4.2	Limit	14
5.3.1.4.3	Conformance	14
5.3.1.5	Temperature tests	15
5.3.1.5.1	Dry heat	15
5.3.1.5.1.1	Definition.....	15
5.3.1.5.1.2	Limit	15
5.3.1.5.1.3	Conformance.....	15
5.3.1.5.2	Damp heat.....	15
5.3.1.5.2.1	Definition.....	15
5.3.1.5.2.2	Limit	15
5.3.1.5.2.3	Conformance.....	15
5.3.1.5.3	Low temperature.....	15
5.3.1.5.3.1	Definition.....	15
5.3.1.5.3.2	Limit	15
5.3.1.5.3.3	Conformance.....	15
5.3.2	Conformance tests	15
5.3.2.1	Sensitivity of the modulator, including microphone	15
5.3.2.2	Audio frequency response.....	15
5.3.2.3	Audio frequency harmonic distortion of the emission	16
5.3.2.4	Residual modulation of the transmitter	16
5.4	Other test suites	16
5.4.1	General.....	16
5.4.2	Harmonic distortion and rated audio-frequency output power	16
5.4.3	Receiver audio frequency response	16
5.4.4	Receiver noise and hum level	16