



**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 2: Harmonized EN covering the essential requirements
of article 3.2 of the R&TTE Directive**

Reference

DEN/ERM-TG26-086-2

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 Conformance requirements	8
4.2.1 Transmitter frequency error	8
4.2.1.1 Definition	8
4.2.1.2 Limit.....	8
4.2.1.3 Conformance.....	8
4.2.2 Transmitter carrier power	9
4.2.2.1 Definition	9
4.2.2.2 Limit.....	9
4.2.2.3 Conformance.....	9
4.2.3 Maximum transmitter frequency deviation.....	9
4.2.3.1 Definition	9
4.2.3.2 Limit.....	9
4.2.3.3 Conformance.....	9
4.2.4 Reduction of frequency deviation at modulation frequencies above 3 kHz.....	9
4.2.4.1 Definition	9
4.2.4.2 Limit.....	9
4.2.4.3 Conformance.....	9
4.2.5 Transmitter adjacent channel power	9
4.2.5.1 Definition	9
4.2.5.2 Limit.....	9
4.2.5.3 Conformance.....	10
4.2.6 Transmitter conducted spurious emissions conveyed to the antenna.....	10
4.2.6.1 Definition	10
4.2.6.2 Limit.....	10
4.2.6.3 Conformance.....	10
4.2.7 Transmitter cabinet radiation and conducted spurious emissions other than those conveyed to the antenna	10
4.2.7.1 Definition	10
4.2.7.2 Limit.....	10
4.2.7.3 Conformance.....	10
4.2.8 Transient frequency behaviour of the transmitter	10
4.2.8.1 Definition	10
4.2.8.2 Limit.....	10
4.2.8.3 Conformance.....	10
4.2.9 DSC frequency error (demodulated DSC signal).....	10
4.2.9.1 Definition	10
4.2.9.2 Limit.....	11
4.2.9.3 Conformance.....	11
4.2.10 DSC modulation index.....	11
4.2.10.1 Definition	11
4.2.10.2 Limit.....	11

4.2.10.3	Conformance	11
4.2.11	DSC modulation rate	11
4.2.11.1	Definition	11
4.2.11.2	Limit	11
4.2.11.3	Conformance	11
4.2.12	Testing of free channel transmission on DSC channel 70	11
4.2.12.1	Definition	11
4.2.12.2	Limit	11
4.2.12.3	Conformance	11
4.2.13	Receiver maximum usable sensitivity	11
4.2.13.1	Definition	11
4.2.13.2	Limit	12
4.2.13.3	Conformance	12
4.2.14	Receiver co-channel rejection	12
4.2.14.1	Definition	12
4.2.14.2	Limit	12
4.2.14.3	Conformance	12
4.2.15	Receiver adjacent channel selectivity	12
4.2.15.1	Definition	12
4.2.15.2	Limit	12
4.2.15.3	Conformance	12
4.2.16	Receiver spurious response rejection	12
4.2.16.1	Definition	12
4.2.16.2	Limit	12
4.2.16.3	Conformance	12
4.2.17	Receiver intermodulation response	12
4.2.17.1	Definition	12
4.2.17.2	Limit	13
4.2.17.3	Conformance	13
4.2.18	Receiver blocking or desensitization	13
4.2.18.1	Definition	13
4.2.18.2	Limit	13
4.2.18.3	Conformance	13
4.2.19	Receiver conducted spurious emissions	13
4.2.19.1	Definition	13
4.2.19.2	Limit	13
4.2.19.3	Conformance	13
4.2.20	Receiver radiated spurious emissions	13
4.2.20.1	Definition	13
4.2.20.2	Limit	13
4.2.20.3	Conformance	13
5	Testing for compliance with technical requirements	14
5.1	Test conditions, power supply and ambient temperatures	14
5.2	Interpretation of the measurement results	14
5.3	Essential radio test suites	14
5.3.1	Transmitter frequency error	14
5.3.2	Transmitter carrier power	15
5.3.3	Maximum transmitter frequency deviation	15
5.3.4	Reduction of frequency deviation at modulation frequencies above 3 kHz	15
5.3.5	Transmitter adjacent channel power	15
5.3.6	Transmitter conducted spurious emissions conveyed to the antenna	15
5.3.7	Transmitter cabinet radiation and conducted spurious emissions other than those conveyed to the antenna	15
5.3.8	Transient frequency behaviour of the transmitter	15
5.3.9	DSC frequency error (demodulated DSC signal)	15
5.3.10	DSC modulation index	15
5.3.11	DSC modulation rate	15
5.3.12	Testing of free channel transmission on DSC channel 70	15
5.4	Other test specifications	16
5.4.1	General	16
5.4.2	Receiver maximum usable sensitivity	16