



SLOVENSKI STANDARD

DSIST EN 300 734:2000

01-Ubi Ur-2000

GUHÝ]hg_UcgYVbU_ca i b]_UWg_Uca fYyUfG!D7 BŁ!AcV]bYnYa Y'g_YdcgHUY
fA9Głzj_`1 bc'nfc b]a]nYa Y'g_]a]dcgHUYa]nUG!D7 Bż_]XYi Y'c]j
ZY_j Yb bYa dUgi & ; <n>]b[ca c[c Uc [cj cfbY]b#U]dcXUh_cj bY_ca i b]_UWY
df]a cV]b]_gUHÝ]hg_] għcf]hj U fAGGŁ

Satellite Personal Communications Networks (S-PCN); Mobile Earth Stations (MES), including handheld earth stations, for S-PCN in the 2,0 GHz bands, providing voice and/or data communications under the Mobile Satellite Service (MSS)

Ta slovenski standard je istoveten z: EN 300 734 Version 1.1.1

ICS:

33.060.30 Radioreljni in fiksni satelitski Radio relay and fixed satellite
komunikacijski sistemi communications systems

DSIST EN 300 734:2000

en

EN 300 734 V1.1.1 (1998-05)

European Standard (Telecommunications series)

**Satellite Personal Communications Networks (S-PCN);
Mobile Earth Stations (MES), including handheld earth
stations, for S-PCN in the 2,0 GHz bands,
providing voice and/or data communications under the
Mobile Satellite Service (MSS)**



Reference

DEN/SES-05014 (6so00ico.PDF)

KeywordsS-PCN, mobile, satellite, service, MSS, earth
station, MES, multimode***ETSI***

Postal address

F-06921 Sophia Antipolis Cedex - FRANCE

Office address650 Route des Lucioles - Sophia Antipolis
Valbonne - 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

Internetsecretariat@etsi.fr
<http://www.etsi.fr>
<http://www.etsi.org>

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 1998.
All rights reserved.

Contents

Intellectual Property Rights.....	6
Foreword	6
1 Scope.....	7
2 References	7
3 Definitions and abbreviations	8
3.1 Definitions	8
3.2 Abbreviations.....	9
4 General	10
4.1 Presentation of equipment for testing purposes	10
4.2 Description of equipment.....	10
4.3 Host-connected equipment.....	11
5 Unwanted emissions outside the band 1 980,1 MHz to 2 009,9 MHz (carrier-on)	11
5.1 Purpose	11
5.2 Conformance requirements	11
5.3 Method of test.....	12
5.3.1 Peak measurement.....	12
5.3.2 Average measurement	12
5.4 Test requirements.....	13
6 Unwanted emissions within the bands 1 980,1 to 2 009,9 MHz, 1 978,1 to 1 980,1 MHz and 2 009,9 to 2 011,9 MHz (carrier-on).....	13
6.1 Purpose	13
6.2 Conformance requirements	13
6.3 Method of test.....	14
6.3.1 Measurement method	14
6.4 Test requirements.....	15
7 Unwanted emissions in carrier-off state	15
7.1 Purpose	15
7.2 Conformance requirements	15
7.3 Method of test.....	15
7.3.1 Measurement method	16
7.4 Test requirements.....	16
8 MES Control and Monitoring Functions (CMF)	16
8.1 Special Test Equipment (STE).....	16
8.2 Self-monitoring functions	16
8.2.1 Processor monitoring.....	16
8.2.1.1 Purpose	16
8.2.1.2 Conformance requirements.....	17
8.2.1.3 Method of test.....	17
8.2.2 Transmit frequency generation sub-system monitoring.....	17
8.2.2.1 Purpose	17
8.2.2.2 Conformance requirements.....	17
8.2.2.3 Method of test.....	17
8.3 Network control authorization and reception.....	17
8.3.1 Network control authorization.....	17
8.3.1.1 Purpose	17
8.3.1.2 Conformance requirements.....	17
8.3.1.3 Method of test.....	18
8.3.1.4 Test procedure	18
8.3.1.5 Test requirement	18
8.3.2 Network control reception - transmit frequency control.....	18
8.3.2.1 Purpose	18

8.3.2.2	Conformance requirements.....	19
8.3.2.3	Method of test.....	19
8.3.2.4	Test procedure	19
8.3.2.5	Test requirement.....	19
8.4	Fellow radio stations in a dual-mode or multi-mode terminal.....	19
8.4.1	Purpose.....	19
8.4.2	Conformance requirements	19
8.4.3	Method of test	20
8.4.4	Test procedure.....	20
8.4.5	Test requirements	20
9	Equipment identity	20
9.1	Purpose	20
9.2	Conformance requirements	20
9.3	Method of test	20
9.4	Test procedure	20
9.5	Test requirements.....	21
Annex A (normative):	General test requirements	22
A.1	MES test modes	22
A.2	Special Test Equipment (STE).....	22
A.2.1	STE description	22
A.2.2	Use of STE for control and monitoring functions tests	22
A.2.3	Test modulating signal.....	23
A.3	Laboratory Test Equipment (LTE)	23
A.4	Methods of test for MES RF emissions	24
A.5	Interpretation of the measurement results	24
A.6	Test report	24
Annex B (normative):	Environmental conditions and host connected equipment.....	25
B.1	General	25
B.2	Environmental requirements	25
B.2.1	Temperature.....	25
B.2.2	Voltage.....	25
B.2.3	Vibration.....	25
B.3	Environmental test conditions.....	25
B.3.1	Specification of the environmental test conditions	25
B.3.2	Tests under extreme voltage conditions	26
B.4	Testing of host-connected equipment and plug-in modules	26
B.4.1	Alternative A: combined equipment	26
B.4.2	Alternative B: use of a test jig.....	26
Annex C (normative):	Procedures for measurement of radiated emissions	27
C.1	General	27
C.1.1	Test site.....	27
C.1.2	Test set up for radiated emissions of the MES.....	27
C.1.3	Reference position of the MES	28
C.2	Measurement procedure for radiated emissions (peak)	28
C.2.1	Measurement procedure for peak radiated emissions of the MES	28
C.2.2	Measurement procedure for peak radiated emissions of the cabinet.....	30
C.3	Measurement procedure for radiated emissions (average)	30
C.3.1	Measurement procedure for average radiated emissions of the MES	30
C.3.2	Measurement procedure for average radiated emissions of the cabinet.....	31

Annex D (normative):	Procedures for measurement of conducted emissions	32
D.1	General	32
D.1.1	Test site.....	32
D.1.2	Test set-up.....	32
D.2	Measurement procedure for conducted emissions (peak).....	32
D.3	Measurement procedure for conducted emissions (average).....	33
Annex E (informative):	Explanation of nominated bandwidth	34
E.1	Introduction	34
E.2	Interpretation of parameters (B_n , f_c , a, b).....	34
E.3	Choice of nominated bandwidth	34
E.4	Maximum value for nominated bandwidth	36
Annex F (informative):	Bibliography.....	38
History		39

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETR 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.fr/ipr>).

Pursuant to the ETSI Interim IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETR 314 (or the updates on <http://www.etsi.fr/ipr>) which are, or may be, or may become, essential to the present document.

Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Satellite Earth Stations and Systems (SES).

The maintenance of the present document and in particular the values of the table 2 will take into account the results of the studies undertaken in accordance with the ITU-R Recommendation M.8/BL/27.

National transposition dates	
Date of adoption of this EN:	1 May 1998
Date of latest announcement of this EN (doa):	31 August 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	28 February 1999
Date of withdrawal of any conflicting National Standard (dow):	28 February 1999