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European Standard (Telecommunications series)

**Digital cellular telecommunications system (Phase 2+);
Attachment requirements for
Global System for Mobile communications (GSM);
Railways Band (R-GSM);
Mobile Stations;
Access
(GSM 13.67 version 5.0.0)**



GSM®
GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS

ETSI 

Reference

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Foreword

This European Standard (Telecommunications series) has been produced by the Special Mobile Group (SMG) of the European Telecommunications Standards Institute (ETSI) and is now submitted for the Public Enquiry phase of the ETSI standards Two step Approval Procedure.

This standard covers the requirements for GSM terminal equipment capable of operating in the frequency bands allocated for use by private networks of the European railways (876-880 MHz and 921-925 MHz), hereafter designated R-GSM terminals.

This standard contains the procedures and requirements for the approval testing of R-GSM terminals.

The requirements of TBR-19, Access apply in addition to this standard, for R-GSM terminals.

Equipments complying with these standards will carry the presumption of conformity with the essential requirements referred to in Article 5 of the Directive 98/13 EC of the European Parliament and of the Council.

For each test, supplementary information is provided, giving a justification why this item has been selected for regulatory testing, and a reference to the relevant article of the Terminal Directive [1].

This document is based on EN 300 607-1 (GSM 11.10-) [2].

The contents of this standard may be subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of this standard it will then be re-submitted for formal approval procedures by ETSI with an identifying change of release date and an increase in version number as follows:

Version 5.x.y

where:

- 5 GSM Phase 2+
- x the second digit is incremented for changes of substance, i.e. technical enhancements, corrections, updates, etc.;
- y the third digit is incremented when editorial only changes have been incorporated in the specification.

Proposed national transposition dates	
Date of latest announcement of this standard (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this standard (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

This European Norm (EN) specifies the technical requirements to be met by GSM terminal equipment capable of operating in the frequency bands allocated for use by private networks of the European Railways (878 - 880 MHz and 921 - 925 MHz). This standard applies to R-GSM terminals for Phase 2+ of the public land mobile radio service, operating in the European Railways R-band frequency in addition to the 900 MHz GSM band with a channel separation of 200 kHz, utilising constant envelope modulation and carrying traffic channels according to the Time Division Multiple Access (TDMA) principle.

This standard specifies the R-GSM terminal requirements for the European Railways version of the Global System for Mobile communications (GSM).

For each test purpose and its corresponding conformance requirement, a reference is given to the test method in EN 300 607-1 (GSM 11.10-1) [2]. The requirements apply at the air interface and the Subscriber Identity Module - Mobile Equipment interface for the access requirements, which may be stimulated to perform the tests by additional equipment if necessary.

The measurement uncertainty is described in EN 300 607-1 (GSM 11.10-1) [2].

This standard covers the telecommunication terminal equipment (TTE) essential requirements of the Terminal Directive 98/13/EC [1] Articles 5d, 5e, 5f.

The Terminal Directive 98/13/EC [1] Articles 5a and 5b are covered by other directives, and, therefore, not by this standard.

In this standard, there are no Electromagnetic Compatibility technical requirements in terms of the Terminal Directive 98/13/EC [1], Article 5c.

NOTE 1: Technical Requirements for EMC performance and testing of the equipment are covered by the relevant standards applicable to the EMC Directive 89/336/EEC, annex A.

This standard specifies the R-GSM terminals additional requirements, which will apply in addition to the Harmonised Standards covering the operation of these terminals in the frequency bands allocated for public GSM networks.

EN 300 607-1 (GSM 11.10-1) [2] constitutes the conformance test suite for GSM. The verification of the conformance requirements in this standard is based on the tests described in this reference. The set of requirements in EN 300 607-1 (GSM 11.10-1) [2] and the set of requirements in this standard need not be identical.

All the requirements in this standard are specific to mobile stations supporting R-GSM.

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

NOTE 2: Only active devices are subject to this standard. 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.

For each test, supplementary information is provided, giving a justification why this item has been selected for regulatory testing, and a reference to the relevant article of the Terminal Directive [1].

This document is based on EN 300 607-1 (GSM 11.10-1) [2].

2 Normative references

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to a standard shall also be taken to refer to later versions published as an standard with the same number.

- [1] Directive 98/13/EC of the European Parliament and of the Council of 12 February 1998 relating to telecommunications terminal equipment and satellite earth station equipment, including the mutual recognition of their conformity.
- [2] EN 300 607-1 (GSM 11.10-1): "Digital cellular telecommunications system (Phase 2+); Mobile station conformity specifications".
- [3] TBR 19: "European digital cellular telecommunications system; Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access".
- [4] GSM 01.04 (ETR 350): "Digital cellular telecommunication system (Phase 2+); Abbreviations and acronyms"
- [5] TBR 20: "European digital cellular telecommunications system (Phase 2; Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Telephony".

3 Abbreviations

For the purposes of this standard the following additional abbreviations apply:

R-GSM	Railways Global System for Mobile communications
ASCI	Advanced Speech Call Items
VBS	Voice Broadcast Service
VGCS	Voice Group Call Service
eMLPP	enhanced Multi-Level Precedence and Pre-emption service
MO	Mobile Originated
MT	Mobile Terminated

Additional GSM related abbreviations can be found in GSM 01.04 (ETR 350) [4].

4 General requirements

R-GSM Band terminals shall conform to:

- a) the requirements of the GSM 900 requirements of TBR19; and
- b) the requirements of clause 5 of this standard; and

- c) the requirements in Annex A of this standard; and
- d) if the terminal implements speech services, the requirements of TBR 20.

5 Requirements

The following table contains all requirements that are needed to meet the essential requirements as defined in the Terminal Directive [1]. A justification according to article 5 of the Terminal Directive is given by stating the relevant categories (d to f) together with a text supporting the justification.

The entries are defined as follows:

"EN 300 607-1 Item" defines the item number of the conformance requirement and also the reference to EN 300 607-1 (GSM 11.10-1) [2]. This reference is a normative reference to a subclause of EN 300 607-1 (GSM 11.10-1) [2] containing the conformance requirement text, and references to the base standard.

- "Description" contains a short description of the requirement.
- "Justification" contains supplementary information to explain the justification of the requirement according to article 5 of the Terminal Directive [1].
- "TD Cat" defines the category according to article 5 of the Terminal Directive [1].
- "Test Cat" defines whether the requirement is covered by a "special test situation" (e.g. a manufacturer's declaration of some form). An "X" indicates a special test situation, whilst, a blank entry indicates conformity is by the test referred to by this standard.

Table 1: Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
12.3.1	Conducted spurious emissions for MS supporting the R-GSM frequency band/ MS allocated a channel	Non compliance in this area may cause interference to other spectrum users.	e	
12.3.2	Conducted spurious emissions for MS supporting the R-GSM frequency band/ MS in idle mode	Non compliance in this area may cause interference to other spectrum users.	e	
12.4.1	Radiated spurious emissions for MS supporting the R-GSM frequency band/ MS allocated a channel	Non compliance in this area may cause interference to other spectrum users.	e	
12.4.2	Radiated spurious emissions for MS supporting the R-GSM frequency band/ MS in idle mode	Non compliance in this area may cause interference to other spectrum users.	e	
13.9	Transmitter - Output RF spectrum for MS supporting the R-GSM band.	Non compliance in this area may cause interference to other spectrum users.	e	
14.2.9	Reference sensitivity - TCH/FS for MS supporting the R-GSM band	Non compliance in this area may degrade speech quality and may impair call maintenance.	f	
14.7.3	Blocking and spurious response - speech channels for MS supporting the R-GSM band	Non compliance in this area may degrade speech quality and may impair call maintenance.	e	
14.7.4	Blocking and spurious response - control channels for MS supporting the R-GSM band	Non Compliance in this area may impair establishment and the maintaining of the call.	f	X
20.21.1	R-GSM cell selection	An MS which does not select the correct cell at switch on, may not camp onto the optimum cell for establishing a connection with the network, or may not offer service at all.	e, f	
20.21.2	R-GSM cell selection with varying signal strength values	An MS which incorrectly averages signal strength values during cell selection, may not camp onto the optimum cell for establishing a connection with the network.	e, f	
20.21.3	R-GSM basic cell reselection	An MS which reselects cells incorrectly, may not camp onto the optimum cell for establishing a connection with the network.	d, e, f	
20.21.4	R-GSM cell reselection using TEMPORARY_OFFSET, CELL_RESELECT_OFFSET, POWER_OFFSET and PENALTY_TIME parameters	An MS which reselects cells incorrectly, may not camp onto the optimum cell for establishing a connection with the network.	d, e, f	
20.21.5	R-GSM cell reselection using parameters transmitted in the System Information type 2bis, type 7 and type 8 messages	An MS which reselects incorrectly, may not camp onto the optimum cell for establishing a connection with the network.	d, e, f	
(continued)				

Table 1 (continued): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
20.21.6	R-GSM cell reselection timing	An MS which reselects cells incorrectly, may not camp onto the optimum cell for establishing a connection with the network.	d, e, f	
20.21.7	R-GSM priority of cells	An MS which reselects cells incorrectly, may not camp onto the optimum cell for establishing a connection with the network. Too frequent reselections may cause increased network signalling load at LA boundaries, or missed paging messages.	d, e, f	
20.21.8	R-GSM cell reselection when C1 (serving cell) < 0 for 5 seconds.	An MS that selects a cell of incorrect priority or incorrectly uses the cell selection parameters, may not camp onto the optimum cell for establishing a connection with the network.	d, e, f	
20.21.9	R-GSM running average of the surrounding cell BCCH carrier signal levels.	An MS which incorrectly calculates the C1 parameter may not camp onto the optimum cell for establishing a connection with the network, Too frequent reselections may cause increased network signalling load at LA boundaries, or missed paging messages.	d, e, f	
20.21.10	R-GSM running average of the serving cell BCCH carrier signal level	An MS which incorrectly averages signal levels may not camp onto the optimum cell for establishing a connection with the network, Too frequent reselections may cause increased network signalling load at LA boundaries, or missed paging messages.	d, e, f	
20.21.11	R-GSM updating the list of six strongest neighbour carriers and decoding the BCCH information of a new carrier on the list	An MS which incorrectly averages signal levels may not camp onto the optimum cell for establishing a connection with the network, Too frequent reselections may cause increased network signalling load at LA boundaries, or missed paging messages.	d, e, f	
20.21.12	R-GSM decoding the BCCH information of the neighbouring carriers on the list of six strongest neighbour carriers	An MS that fails to decode the BCCHs of surrounding cells correctly, may not reselect the optimum cell for establishing a connection with the network., This may cause increased network signalling load at LA boundaries.	d, e, f	
		(continued)		

Table 1 (continued): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
20.21.13	R-GSM decoding the BSIC of the neighbour carriers on the list of six strongest neighbour carriers	An MS that fails to decode the BSICs of surrounding cells correctly, may not reselect the optimum cell for establishing a connection with the network. This may cause increased network signalling load at LA boundaries.	d, e, f	
20.21.14	R-GSM emergency calls	An MS that fails to work correctly in the limited service state may not be able to establish a connection for an emergency call. It may also attempt to establish a connection with a network that is not permitted.	d, f	
20.21.15	R-GSM cell reselection due to MS rejection "LA not allowed"	An MS which fails to reselect correctly when rejected with the cause "LA not allowed" may attempt to establish a connection on a cell which is not allowed, or not the optimum cell, causing increased interference in the network.	d, e, f	
20.21.16	R-GSM downlink signalling failure	An MS which fails to reselect correctly in conjunction with the DSC counter, may not select the optimum cell for establishing a connection with the network, or may not offer service at all.	d, e, f	
20.21.17	R-GSM cell selection if no suitable cell found in 10 s	An MS which is unable to reselect a suitable cell and does not perform a cell selection, may not offer service when cells suitable for establishing a connection with the network are available.	f	
20.21.18	R-GSM cell reselection due to MS rejection "Roaming not allowed in this LA"	An MS which fails to reselect correctly when rejected with the cause "Roaming not allowed in this LA" may repeatedly attempt to establish a connection on a cell which is not allowed.	d, e, f	X
20.21.19	R-GSM cell selection on release of SDCCH and TCH	If wrongly implemented, paging messages may be missed on release of the TCH or SDCCH.	f	
26.10.2.1	E GSM or R-GSM signalling / RR / Measurement.	If the MS is not able to provide any measurement to the network at the relevant frequency band, no communication can be maintained.	f	
26.10.2.2	E GSM or R -GSM signalling / RR / Immediate assignment.	If the procedure is not correctly implemented by the MS, the allocated resources at the relevant frequency band may be wasted, the MS may use wrong channels or connection could not be established.	d, e, f	
		(continued)		

Table 1 (concluded): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
26.10.2.3	E-GSM or R -GSM signalling / RR / channel assignment procedure.	If the procedure is not correctly implemented by the MS, the allocated resources at the relevant frequency band may be wasted, the MS may use wrong channels or connection could not be established.	d, e, f	
26.10.2.4.1	E-GSM or R -GSM signalling / RR / Handover / Successful handover.	If the procedure is not correctly implemented by the MS, the allocated resources at the relevant frequency band may be wasted, the MS may use wrong channels or connection could not be established.	d, e, f	
26.10.2.4.2	E-GSM or R -GSM signalling / RR / Handover / layer 1 failure.	If the procedure is not correctly implemented by the MS, the allocated resources at the relevant frequency band may be wasted, the MS may use wrong channels or connection could not be established.	d, e, f	
26.10.2.5	E-GSM or R -GSM signalling / RR / Frequency redefinition.	If the MS does not correctly implement the frequency redefinition, it could not interwork with the network at the relevant frequency band and the MS might also use the wrong frequencies.	d, f	
26.10.3.1	E-GSM or R -GSM signalling / Structured procedure / Mobile originated call.	If the procedure is not correctly implemented by the MS, the R-GSM MS may not be able to pass a normal call on a R-GSM channel.	f	
26.10.3.2	E-GSM or R-GSM signalling / Structured procedure / Emergency call	If the procedure is not correctly implemented by the MS, the R-GSM MS may not be able to pass an emergency call on R-GSM channel.	f	

Annex A (normative): The Requirement Table (RT)

A.1 Introduction to the RT

This RT provides a summary of all the requirements of this standard. It shows the status of each EN-Requirement (EN-R), whether it is essential to implement in all circumstances, or whether the requirement is dependant on the manufacturer having chosen to support a particular optional service or functionality. In particular it enables the EN-Rs associated with a particular optional service or functionality to be grouped and identified.

The static requirements proforma provides the means to capture the choices which the manufacturer has made in implementing the equipment.

The dynamic requirements proforma indicates the choices for which conformance is claimed for.

When completed in respect of a particular equipment the tables provide a means to undertake the static assessment of conformity with the standard, and to select the appropriate test cases to be used in dynamically testing the equipment.

References to items

For each possible item answer (answer in the support column) within the static requirements tables there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character (/), followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.1/8 is the reference to the answer of item 8 in table A.1.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

A.2 Format of the tables

The entries of the static requirement tables are defined as follows:

- In the "Item" column a local entry number for the requirement in the RT is given.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "Ref." column references the corresponding clause of base standard or EN 300 607-1 (GSM 11.10-1) [2].
- In the "Status" column the status of the entry, as further detailed in the following clause, is indicated.
- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, which have been made in the implementation.
- The "Values allowed" column contains the values or the ranges of values allowed.
- The "Values supported" column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.
- The "Mnemonic" assigns a symbolic name to the static requirement.

The entries of the dynamic requirement tables are defined as follows:

- "EN 300 607-1 Item" defines the item number of the conformance requirement and also the reference to EN 300 607-1 (GSM 11.10-1) [2]. This reference is a normative reference to a section of EN 300 607-1 (GSM 11.10-1) [2] containing the conformance requirement text, and references to the base standard.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "TD Cat" column the class of essential requirements is indicated. Essential requirements are classified according to article 5 of the EC Council Directive, 98/13/EC. Valid entries used in this RT are d, e and f, corresponding to respectively "protection of public networks", "effective use of frequency" and "interworking with public networks".
- In the "Status" column the status of the entry, as further detailed in the following clause, is indicated.
- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, for which conformance is claimed for.

A.3 References to EN 300 607-1 (GSM 11.10-1)

The reference number in column "EN 300 607-1 Item" references subclauses in EN 300 607-1 (GSM 11.10-1) [2].

A.4 Notations used in the RT

A.4.1 Status Notations

The "Status" column shows the status of the entries as follows:

M Mandatory, shall be implemented under all circumstances.

O Optional, may be provided, but if provided shall be implemented in accordance with the requirements.

O.<n> This status is used for mutually exclusive or selectable options among a set, in cases where it is mandatory to implement one or more options among a set. The integer <n> refers to a unique group of options within the RT. A footnote under the table in which it is used states explicitly what the requirement is for each numbered group.

C<n> Conditional number <n>. Reference is made to a Boolean expression under the table with predicates of support answers, which will resolve to either "M", "X", "N", or "O.<n>" for a specific implementation. In all cases "ELSE Not Applicable" is implied, if an ELSE expression is omitted.

N/A Not applicable.

X Excluded or Prohibited.

A.4.2 Support Answer Notations

The "support" column is reserved for completion in respect of a particular implementation. Entries may be:

Yes (or Y or y) Indicating that the implementation claims to fully implement the EN-R in accordance with the specification. The entry of a "Yes" against an "X" status entry means the equipment does not conform to the standard.

No (or N or n) Indicating that the implementation does not claim full support of the EN-R in accordance with the specification. The entry "No" against an "M" status entry means the equipment does not conform to the standard.

A.5 The Requirement Tables

A.5.1 Static Requirements, RT A

A.5.1.1 Types of Mobile Stations

The supplier of the implementation shall state the support of the implementation for each of the questions concerning the types of a mobile station given in the tables below:

Table A.1: Types of GSM 900 Mobile Stations

Item	Type of Mobile Station	Ref.	Status	Support	Mnemonic
9	R-GSM Band (including standard and E-GSM Band)	GSM 02.06, 3.2.1	O		Type_GSM_R_Band

Comments:

A.5.1.2 Mobile Station Features

Not used.

A.5.1.3 Teleservices

Not used.

A.5.1.4 Bearer Services

Not used.

A.5.1.5 Supplementary Services

Not used.

A.5.1.6 Bearer Capability Information

Not used

A.5.1.7 Additional Information

Table A.25: Additional Information

Item	Additional Information	Ref.	Status	Support	Mnemonic
2	full rate speech mode.	GSM 02.06, 3.2.2; GSM 02.01, A.1.1	C2501		TSPC_FullRateSpeech
3	half rate speech mode.	GSM 02.06, 3.2.2; GSM 02.01, A.1.1	O		TSPC_HalfRateSpeech
25	at least one teleservice.	GSM 02.03, 6	O		TSPC_TeleSvc
26	CC protocol for at least one BC.	GSM 04.08, 5	O		TSPC_CC
60	Permanent Antenna Connector.	GSM 11.10-1 12.1.1, 12.1.2	O		TSPC_AddInfo_PermAntenna
C2501	IF A.25/3 THEN M ELSE O			-- TSPC_HalfRateSpeech	

A.5.2 Dynamic Requirements, RT B

Table A.26: Dynamic Requirements

EN 300 607-1 Item	Description	TD Cat	Status	Supported
12.3.1	Conducted spurious emissions for MS supporting the R-GSM frequency band/MS allocated a channel	e	C 115	
12.3.2	Conducted spurious emissions for MS supporting the R-GSM frequency band/ MS in idle mode	e	C 115	
12.4.1	Radiated spurious emissions for MS supporting the R-GSM frequency band/ MS allocated a channel	e	C 103	
12.4.2	Radiated spurious emissions for MS supporting the R-GSM frequency band/ MS in idle mode	e	C 103	
13.9	Transmitter - Output RF spectrum for MS supporting the R-GSM band.	e	C 103	
14.2.9	Reference sensitivity - TCH/FS for MS supporting the R-GSM band	f	C 116	
14.7.3	Blocking and spurious response - speech channels for MS supporting the R-GSM band	e	C 116	
14.7.4	Blocking and spurious response - control channels for MS supporting the R-GSM band	f	C 119	
20.21.1	R-GSM cell selection	e, f	C 103	
20.21.2	R-GSM cell selection with varying signal strength values	e, f	C 103	
20.21.3	R-GSM basic cell reselection	d, e, f	C 103	
20.21.4	R-GSM cell reselection using TEMPORARY_OFFSET, CELL_RESELECT_OFFSET, POWER_OFFSET and PENALTY_TIME parameters	d, e, f	C 103	
20.21.5	R-GSM cell reselection using parameters transmitted in the System Information type 2bis, type 7 and type 8 messages	d, e, f	C 103	
(continued)				

Table A.26 (concluded): Dynamic Requirements

EN 300 607-1 Item	Description	TD Cat	Status	Supported
20.21.6	R-GSM cell reselection timing	d, e, f	C 103	
20.21.7	R-GSM priority of cells	d, e, f	C 103	
20.21.8	R-GSM cell reselection when C1 (serving cell) < 0 for 5 seconds	d, e, f	C 103	
20.21.9	R-GSM running average of the surrounding cell BCCH carrier signal levels	d, e, f	C 103	
20.21.10	R-GSM running average of the serving cell BCCH carrier signal level	d, e, f	C 103	
20.21.11	R-GSM updating the list of six strongest neighbour carriers and decoding the BCCH information of a new carrier on the list	d, e, f	C 103	
20.21.12	R-GSM decoding the BCCH information of the neighbouring carriers on the list of six strongest neighbour carriers	d, e, f	C 103	
20.21.13	R-GSM decoding the BSIC of the neighbour carriers on the list of six strongest neighbour carriers	d, e, f	C 103	
20.21.14	R-GSM emergency calls	d, f	C 116	
20.21.15	R-GSM cell reselection due to MS rejection "LA not allowed"	d, e, f	C 103	
20.21.16	R-GSM downlink signalling failure	d, e, f	C 103	
20.21.17	R-GSM cell selection if no suitable cell found in 10 s	f	C 103	
20.21.18	R-GSM cell reselection due to MS rejection "Roaming not allowed in this LA"	d, e, f	C 103	
20.21.19	R-GSM cell selection on release of SDCCH and TCH	f	C 103	
26.10.2.1	E-GSM or R-GSM signalling / RR / Measurement.	f	C117	
26.10.2.2	E-GSM or R-GSM signalling / RR / Immediate assignment.	d, e, f	C103	
26.10.2.3	E-GSM or R-GSM signalling / RR / channel assignment procedure.	d, e, f	C103	
26.10.2.4.1	E-GSM or R-GSM signalling / RR / Handover / Successful handover.	d, e, f	C117	
26.10.2.4.2	E-GSM or R-GSM signalling / RR / Handover / layer 1 failure.	d, e, f	C117	
26.10.2.5	E-GSM or R-GSM signalling / RR / Frequency redefinition.	d, f	C118	
26.10.3.1	E-GSM or R-GSM signalling / Structured procedure / Mobile originated call.	f	C103	
26.10.3.2	E-GSM or R-GSM signalling / Structured procedure / Emergency call	f	C103	
C103	IF A.1/9 THEN M ELSE N/A	-- Type_GSM_R_Band		
C115	IF A.25/60 AND A.1/9 THEN M ELSE N/A	-- TSPC_AddInfo_PermAntenna AND Type_GSM_R_Band		
C116	IF A.25/2 AND A.1/9 THEN M ELSE N/A	-- TSPC_FullrateSpeech AND Type_GSM_R_Band		
C117	IF A.25/26 AND A.1/9 THEN M ELSE N/A	-- TSPC_CC AND Type_GSM_R_Band		
C118	IF A.25/25 AND A.25/26 AND A.1/9 THEN M ELSE N/A	-- TSPC_TeleServ AND TSPC_CC AND Type_GSM_R_Band		
C119	IF A.1/9 AND NOT A.25/2 THEN M ELSE N/A	-- Type_GSM_R_Band AND NOT TSPC_FullrateSpeech		

History

Document history		
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