RP-020493

TSG RAN Meeting #17 Biarritz, France, 3 - 6 September, 2002

TitleCRs (Rel-5) to TS 25.105 and TS25.142 "Applicability of requirements in case
of devices external to the BS"SourceTSG RAN WG4Agenda Item7.4.5

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-021204	25.105	124		F	Rel-5	5.1.0	Applicability of requirements in case of RF devices external to the BS	TEI5
R4-021214	25.142	139		F	Rel-5	5.1.0	Applicability of requirements in case of RF devices external to the BS	TEI5

3GPP TSR RAN WG4 Meeting #24

R4-021204

Helsinki, Finland 12 - 16 August 2002

CHANGE REQUEST									
ж	25.1	<mark>05</mark> CR	124	ж rev	ж	Current vers	^{ion:} 5.1.	<mark>0</mark> [#]	
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.									
Proposed change affects: UICC apps# ME Radio Access Network X Core Network									
<i>Title:</i> ដ	Appli	cability of	requirements	s in case of	RF devic	es external to	the BS		
Source: अ	RAN	WG4							
Work item code: ℜ	TEI5					Date: ೫	21/08/200	2	
Category: ₩	F A B C D Detaile	(correction (correspon (addition d (functiona (editorial n d explanat	nds to a correc	tion in an ear of feature)		2 e) R96 R97 R98 R99	Rel-5 the following (GSM Phase (Release 199 (Release 199 (Release 199 (Release 4) (Release 5) (Release 6)	92) 96) 97) 98)	
Reason for change			external RF est ports are i			thead amplifie	r, external L	NA, filter	
Summary of chang			ed that the real F equipment		apply to t	he far end ant	enna conne	ctor when	
Consequences if not approved:			external RF be ambiguou		o the BS	the ports whe	re the requi	rements	
Clauses affected:	ж	6.1, 7.1							
Other specs affected:	۲ ж ۸	Tes	er core specif t specificatior A Specificatic	IS	¥ 25.	142 in CR139			
Other comments:	ж								

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.1 General

Unless <u>detailed otherwise stated</u> the transmitter characteristics are specified at the antenna connector <u>(test port A) with a</u> <u>full complement of transceivers for the configuration in normal operating conditions. If any external apparatus such as a</u> <u>TX amplifier, a filter or the combination of such devices is used, requirements apply at the far end antenna connector</u> (port B).

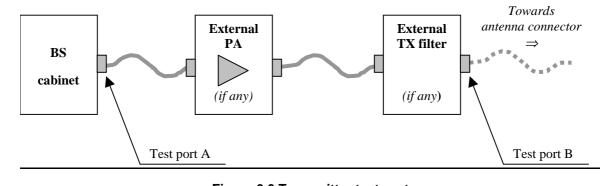


Figure 6.0 Transmitter test ports

--- next changed section ---

7.1 General

The requirements in this clause 7 assume that the receiver is not equipped with diversity. For receivers with diversity, the requirements apply to each antenna connector separately, with the other one(s) terminated or disabled .The requirements are otherwise unchanged.

<u>Unless otherwise stated, the receiver characteristics are specified at the BS antenna connector (test port A) with a full</u> complement of transceivers for the configuration in normal operating conditions. If any external apparatus such as a RX amplifier, a filter or the combination of such devices is used, requirements apply at the far end antenna connector (port <u>B)</u>.

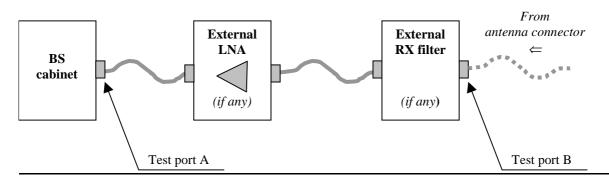


Figure 7.1: Receiver test ports

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R4-021214

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CHANGE REQUEST											
ж	25	<mark>.142</mark>	CR <mark>1</mark>	39	ж re	v	ж	Current vers	ion: 5	.1.0	ж
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Proposed change affects: UICC apps# ME Radio Access Network X Core Network											
Title: ೫	Ap	olicabil	ity of red	quirement	<mark>s in case</mark>	of RF	device	s external to	the BS		
Source: अ	RA	N WG	4								
Work item code: %	TE	5						Date: ೫	21/08/	2002	
Category: ₩	Deta	F (corr A (cor B (add C (fun D (edii iled exp	rection) responds lition of fe ctional m torial mod	odification dification) s of the ab	ction in an of feature))	elease)) R96 R97 R98 R99 Rel-4		nase 2) 2 1996) 2 1997) 2 1998) 2 1998) 2 1999) 2 4) 2 5)	ases:
Reason for change	e: X			ternal RF ports are				ead amplifie	r, extern	al LNA	, filter
Summary of change: # It is clarified that the requirements apply to the far end antenna connector whe external RF equipment is used.								r when			
Consequences if not approved:	ж			ternal RF ambiguou		nt to the	e BS th	ne port where	e the rec	luireme	nts
Clauses affected:	Ħ	6.1,	7.1								
Other specs affected:	ж	Y N X X X	Test sp	core speci becificatio Specificatio	ns	¥					
Other comments:	ж										

How to create CRs using this form:

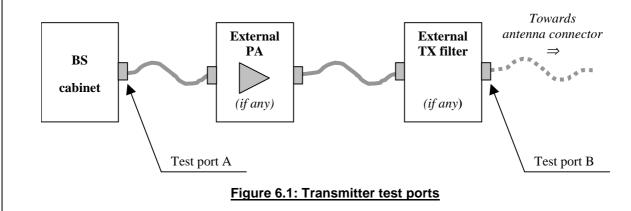
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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.1 General

Unless otherwise stated, all measurements shall be made at the BS antenna connector, (test port A) with a full complement of transceivers for the configuration in normal operating conditions. If any external apparatus such as a TX amplifier, a filter or the combination of such devices is used, the tests according to subclauses 5.14.4 shall be performed to ensure that the requirements are met at test port B.



--- next changed section ---

7.1 General

All tests unless otherwise stated in this subclause shall be conducted on Base Station Systems fitted with a full complement of Transceivers for the configuration. The manufacturer shall provide appropriate logical or physical test access to perform all tests in this subclause. Measurements shall include any RX multicoupler.

The tests in clause 7 assume that the receiver is not equipped with diversity. <u>Unless otherwise stated</u>, For receivers with diversity, the tests for receiver with diversity shallmay be performed by applying the specified signals to one of the receiver inputs, and terminating or disabling the other(s). The tests and requirements are otherwise unchanged.

For receivers with diversity, testing of conformance shall be performed by applying the specified signals to one of the receiver inputs, and terminating or disabling the other(s).

In all the relevant subclauses in this clause all Bit Error Ratio (BER), Residual BER (RBER) and Frame Erasure Ratio (FER) measurements shall be carried out according to the general rules for statistical testing.

Unless detailed the receiver characteristic are specified at each antenna connector of the BS.

<u>Unless otherwise stated, all tests in this clause shall be performed at the BS antenna connector (test port A). If any external apparatus such as a RX amplifier, a filter or the combination of such devices is used, the tests according to subclauses 5.14.4 shall be performed to ensure that the requirements are met at test port B.</u>

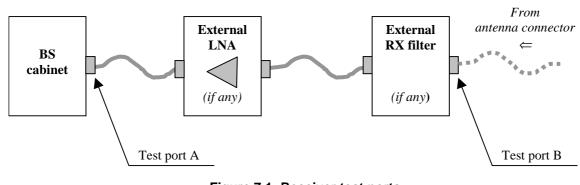


Figure 7.1: Receiver test ports