# ETSI TS 136 521-2 V11.2.0 (2013-10)



## LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA);
User Equipment (UE) conformance specification;
Radio transmission and reception;
Part 2: Implementation Conformance Statement (ICS)
(3GPP TS 36.521-2 version 11.2.0 Release 11)



Reference
RTS/TSGR-0536521-2vb20

Keywords

LTE

#### **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

#### Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

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

<a href="http://portal.etsi.org/tb/status/status.asp">http://portal.etsi.org/tb/status/status.asp</a></a>

If you find errors in the present document, please send your comment to one of the following services: <u>http://portal.etsi.org/chaircor/ETSI\_support.asp</u>

### **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 2013. All rights reserved.

**DECT**<sup>TM</sup>, **PLUGTESTS**<sup>TM</sup>, **UMTS**<sup>TM</sup> and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**<sup>TM</sup> and **LTE**<sup>TM</sup> 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.

# 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 ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://ipr.etsi.org).

Pursuant to the ETSI 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 ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

## **Foreword**

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <a href="http://webapp.etsi.org/key/queryform.asp">http://webapp.etsi.org/key/queryform.asp</a>.

# Contents

Intelle	ectual Property Rights	2
Forew	vord	2
Forew	vord	4
Introd	luction	4
1	Scope	5
2	References	
3	Definitions, symbols and abbreviations	
3.1	Definitions	
3.2	Symbols	
3.3	Abbreviations	
4		
•	Recommended test case applicability	
4.1 4.2	RF conformance test cases	
4.2	RRIVI conformance test cases	24
Anne	x A (normative): ICS proforma for E-UTRA User Equipment	38
A.1	Guidance for completing the ICS proforma	38
A.1.1	Purposes and structure	38
A.1.2	Abbreviations and conventions	38
A.1.3	Instructions for completing the ICS proforma	39
A.2	Identification of the User Equipment	39
A.2.1	Date of the statement	39
A.2.2	User Equipment Under Test (UEUT) identification	39
A.2.3	Product supplier	40
A.2.4	Client	40
A.2.5	ICS contact person	
A.3	Identification of the protocol	
A.4	ICS proforma tables	
A.4.1	UE Implementation Types	
A.4.2	UE Service Capabilities	
A.4.3	Baseline Implementation Capabilities	
A.4.4	Feature group indicators	
A.4.5	Additional information	
A.4.6	CA Physical Layer Baseline Implementation Capabilities	
A.4.6.	January 1	
A.4.6.		
A.4.6.	3 Inter-band CA Physical Layer Baseline Implementation Capabilities	61
Anne	x B (informative): Change history	64
Uicto	MK 7	68

## **Foreword**

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

## Introduction

The present document is part 2 of a multi-parts TS:

3GPP TS 36.521-1 [1]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing.

3GPP TS 36.521-2: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part :2 Implementation Conformance Statement (ICS).

3GPP TS 36.521-3 [2]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management (RRM) Conformance Testing.

## 1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 36.521-1 [1] and 3GPP TS 36.521-3 [2]. These applicability statements are based on the features implemented in the LIF

Special conformance testing functions can be found in 3GPP TS 36.509 [5] and the common test environments are included in 3GPP TS 36.508 [6].

The present document is valid for UE implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 36.521-1: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing ".
- [2] 3GPP TS 36.521-3: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management Conformance Testing ".
- [3] ISO/IEC 9646-1: "Information technology Open systems interconnection Conformance testing methodology and framework Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [5] 3GPP TS 36.509: "Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing functions for User Equipment ".
- [6] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA); Common Test Environments for User Equipment (UE) Conformance Testing".
- [8] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [9] 3GPP TS 36.201: "LTE Physical Layer General Description"
- [10] 3GPP TS 36.302: "Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer for E-UTRA".
- [11] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification".
- [12] 3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification".

[13]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification".
[14]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) Protocol Specification".
[15]	3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3"
[16]	3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band".

# 3 Definitions, symbols and abbreviations

For the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in TR 21.905 [8]
- such given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

NOTE: Some terms and abbreviations defined in [3] and [4] are explicitly included below with small modification to reflect the terminology used in 3GPP.

### 3.1 Definitions

**Implementation Conformance Statement (ICS):** statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

**Implementation eXtra Information for Testing (IXIT):** A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

IXIT proforma: A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

**Protocol Implementation Conformance Statement (PICS):** An ICS for an implementation or system claimed to conform to a given protocol specification

**Protocol Implementation eXtra Information for Testing (PIXIT):** An IXIT related to testing for conformance to a given protocol specification

**static conformance review**: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

## 3.2 Symbols

No specific symbols have been identified so far.

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [8].

For the purposes of the present document, the following abbreviations apply:

ICS Implementation Conformance Statement

IXIT Implementation eXtra Information for Testing
PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

RRM Radio Resource Management SCS System Conformance Statement

TC Test Case

UEUT User Equipment Under Test

# 4 Recommended test case applicability

The applicability of each individual test is identified in the tables 4.1-1 or 4.2-1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in tables 4.1-1 / 4.2-1 have the following meaning:

#### Clause

The clause column indicates the clause number in TS 36.521-1 [1] or respectively TS 36.521-3 [2] that contains the test body.

#### Title

The title column describes the name of the test and contains the clause title of the clause in TS 36.521-1 [1] or TS 36.521-3 [2] that contains the test body.

#### Release

The release column indicates the earliest release from which each test case is applicable.

#### Applicability - Condition

The following notations are used for the applicability column:

R recommended - the test case is recommended to all terminals supporting E-UTRA

O optional – the test case is optional

N/A not applicable - in the given context, the test case is not recommended.

Ci conditional - the test is recommended ("R") or not ("N/A") depending on the support of other

items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ...

THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

#### Applicability - Comments

This comments column contains a verbal description of the condition included in the applicability column.

#### Additional Information

This column contains indication if the test case may perform differently depending on the UE capabilities.

NOTE To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch (i.e. different behaviour within one and the same TC) of common FDD and TDD test cases. The FDD and TDD branches of common FDD and TDD test cases can be referenced by amending a "FDD" or "TDD" suffix to the test case clause number. For example for test case 6.2.2 the FDD and TDD branches can be identified by "6.2.2 FDD" and "6.2.2 TDD".

## 4.1 RF conformance test cases

Table 4.1-1: Applicability of RF conformance test cases, ref. TS 36.521-1 [1]

Clause	Title	Release		Additional Information	
			Condition	Comments	
Transmit	tter Characteristics				
6.2.2	UE Maximum Output Power	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.2.2_1	UE Maximum Output Power	Rel-11	C39	UE supporting E-UTRA	FDD
	for HPUE			Power Class 1	TDD
6.2.2A. 1	UE Maximum Output Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	DE Ortana de Orty			DE OFT AND DE OFT	TDD
6.2.2B	UE Maximum Output Power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
				UE supporting E-UTRA,	TDD
6.2.3	Maximum Power Reduction (MPR)	Rel-8	N/A	The minimum requirement tested in 6.2.3 is covered by test case 6.6.2.3.	FDD
				.,	TDD
6.2.3_1	Maximum Power Reduction (MPR) for HPUE	Rel-11	N/A	UE supporting E-UTRA Power Class 1 .The minimum requirement tested in 6.2.3_1 is	FDD
				covered by test case 6.6.2.3_1.	TDD
6.2.3A. 1	Maximum Power Reduction (MPR) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	N/A	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA. The minimum requirement tested in 6.2.3A.1 is covered by test case 6.6.2.3A.1	FDD
					TDD
6.2.3B	Maximum Power Reduction (MPR) for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
				LIC accompanting C LITDA	TDD
6.2.4	Additional Maximum Power Reduction (A-MPR)	Rel-8	N/A	UE supporting E-UTRA. The minimum requirement tested in 6.2.4 is covered by test case 6.6.2.2 or 6.6.3.3 according to the supported NS value.	FDD
					TDD
6.2.4_1	Additional Maximum Power Reduction (A-MPR) for	Rel-11	N/A	UE supporting E-UTRA Power Class 1.The minimum requirement tested in 6.2.4_1 is	FDD
6.2.4_1	HPUE		IN/A	covered by test case 6.6.2.2 or 6.6.3.3 according to the	TDD

Clause	Title	Release		Applicability	
			Condition	Comments	
				supported NS value.	
6.2.4A. 1	Additional Maximum Power Reduction (A-MPR) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	N/A	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA. The minimum requirement tested in 6.2.4A.1 is covered by test case 6.6.2.2A.1 or 6.6.3.3A.1 according to the supported NS value.	FDD
					TDD
6.2.4B	Additional Maximum Power Reduction (A-MPR) for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.2.5	Configured UE transmitted Output Power	Rel-8	R	UE supporting E-UTRA	FDD
	Configured LIE transpersition			LIE aupporting E LITDA	TDD
6.2.5_1	Configured UE transmitted Output Power for HPUE	Rel-11	C39	UE supporting E-UTRA Power Class 1	FDD TDD
6.2.5A. 1	Configured UE transmitted Output Power for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.2.5A. 2	Configured UE transmitted Output Power for CA (interband DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	•				TDD
6.2.5B	Configured transmitted power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
0.0.4	Void				TDD
6.3.1 6.3.2	Minimum Output Power	Rel-8	R	UE supporting E-UTRA	FDD
0.0.2	Williman Satpat Tower	TKCI O	1	OL Supporting L OTTO	TDD
6.3.2A. 1	Minimum Output Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	•				TDD
6.3.2B	Minimum Output Power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
			<u> </u>		TDD
6.3.3	Transmit OFF Power	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.3A. 1	Transmit OFF Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.3.3B	UE Transmit OFF power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.3.4.1	General ON/OFF time mask	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.4.2. 1	PRACH time mask	Rel-8	R	UE supporting E-UTRA	FDD
6242					TDD
6.3.4.2. 2	SRS time mask	Rel-8	R	UE supporting E-UTRA	FDD
			<u> </u>		TDD

Clause	Title	Release		Additional Information	
			Condition	Comments	
6.3.4A. 1.1	General ON/OFF time mask for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.3.4B	ON/OFF time mask for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.3.5.1	Power Control Absolute Power Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.5.2	Power Control Relative Power Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
	Aggragata Dawar Cantrol				TDD
6.3.5.3	Aggregate Power Control Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
	Power Control Absolute				TDD
6.3.5A. 1.1	Power Control Absolute Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.3.5A. 2.1	Power Control Relative Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	ŕ				TDD
6.3.5A. 3.1	Aggregate Power Control Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.3.5B. 1	Power Control Absolute power tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.3.5B. 2	Power Control Relative power tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.3.5B. 3	Aggregate power control tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
651	Fraguency Frag	Dol 0	D	HE aupporting E HTDA	TDD
6.5.1	Frequency Error	Rel-8	R	UE supporting E-UTRA	FDD TDD
6.5.1A. 1	Frequency Error for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	Francisco F. ( ) !!			HE C E LIEDA	TDD
6.5.1B	Frequency Error for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
	Free Vooter Messell				TDD
6.5.2.1	Error Vector Magnitude (EVM)	Rel-8	R	UE supporting E-UTRA	FDD
6.5.2.1	PUSCH-EVM with exclusion				TDD
6.5.2.1 A	period period	Rel-8	R	UE supporting E-UTRA	FDD
6522	Carrier leakage	Dol 0	R	UE supporting E-UTRA	TDD FDD
6.5.2.2	Carrier leakage	Rel-8	K	OE Supporting E-UTKA	TDD
6.5.2.3	In-band emissions for non allocated RB	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.4	EVM equalizer spectrum	Rel-8	R	UE supporting E-UTRA	FDD

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
	flatness				
	Error Vector Magnitude				TDD
6.5.2A. 1.1	(EVM) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	- ,				TDD
6.5.2A. 2.1	Carrier leakage for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	la bandanianiana farana				TDD
6.5.2A. 3.1	In-band emissions for non allocated RB for CA (intraband contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.5.2B. 1	Error Vector Magnitude for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
6.5.2B.				UE supporting E-UTRA	TDD
2	Carrier leakage for UL-MIMO	Rel-10	C07	and UL_MIMO	FDD TDD
6.5.2B.	In-band emissions for non	D 140	007	UE supporting E-UTRA	
3	allocated RB for UL-MIMO	Rel-10	C07	and UL_MIMO	FDD
6.5.2B.	EVM agualizar an actrum			LIC ourporting C LITDA	TDD
6.5.2B. 4	EVM equalizer spectrum flatness for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD TDD
6.6.1	Occupied bandwidth	Rel-8	R	UE supporting E-UTRA	FDD
0.0		. 10. 0			TDD
6.6.1A. 1	Occupied bandwidth for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.6.1B	Occupied bandwidth for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
6.6.2.1	Spectrum Emission Mask	Rel-8	R	UE supporting E-UTRA	TDD FDD
0.0.2.1	Spectrum Emission Mask	Kei-o	K	OE Supporting E-OTRA	TDD
6.6.2.1 A.1	Spectrum Emission Mask for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.6.2.1 B	Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
	Additional Spectrum				TDD
6.6.2.2	Emission Mask	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.6.2.2 B	Additional Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
	A I:				TDD
6.6.2.3	Adjacent Channel Leakage power Ratio	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.6.2.3_	Adjacent Channel Leakage	Rel-11	C39	UE supporting E-UTRA	FDD
1	power Ratio for HPUE			Power Class 1	TDD
6.6.2.3 A.1	Adjacent Channel Leakage power Ratio for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
6.6.2.3 B	Adjacent Channel Leakage power Ratio for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
6624	Void				TDD
6.6.2.4	Transmitter Spurious	D 10			
6.6.3.1	emissions	Rel-8	R	UE supporting E-UTRA	FDD
6.6.3.1 A.1	Transmitter Spurious emissions for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.6.3.2	Spurious emission band UE co-existence	Rel-8	R	UE supporting E-UTRA	FDD
	co-existence				TDD
6.6.3.2 A.1	Spurious emission band UE co-existence for CA (intraband contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.6.3.3	Additional spurious emissions	Rel-8	R	UE supporting E-UTRA	FDD
	CITIOSIONS				TDD
6.6.3.3 A.1	Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.7	Transmit intermodulation	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.7A	Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	TDD
	Too a soit into many district for			LIE averagetica E LIEDA	FDD
6.7B	Transmit intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD TDD
6.8B	Time alignment between transmitter branches for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
Receiver	Characteristics				TDD
7.3	Reference sensitivity level	Rel-8	R	UE supporting E-UTRA	FDD
	•			-	TDD
7.3A.1	Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
7.3A.2	Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	Deference constitute to the			LIC oupporting C LITDA	TDD
7.3A.3	Reference sensitivity level for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	Defended constitute to the			LIC composition C LICO	TDD
7.3B	Reference sensitivity level for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD TDD
7.4	Maximum input level	Rel-8	R	UE supporting E-UTRA	FDD
		1.0.0		0 = oapporting = OTTO	TDD

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
7.4A.1	Maximum input level for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	or and of or y			DE OFT WING DE OFT	TDD
7.4A.2	Maximum input level for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	Maximum input level for CA			UE supporting E-UTRA	TDD
7.4A.3	(inter-band DL CA without UL CA)	Rel-10	C21	and inter-band DL CA but no UL CA	FDD
					TDD
7.4B	Maximum input level for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
	Adjacent Channel Selectivity				TDD
7.5	(ACS)	Rel-8	R	UE supporting E-UTRA	FDD
	,				TDD
7.5A.1	Adjacent Channel Selectivity (ACS) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
7.5A.2	Adjacent Channel Selectivity (ACS) for CA (intra-band contiguous DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
					TDD
7.5A.3	Adjacent Channel Selectivity (ACS) for CA (inter-band DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	ŕ				TDD
7.5B	Adjacent Channel Selectivity (ACS)for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
7.6.1	In-band blocking	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
7.6.1A. 1	In-band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	In-band blocking for CA			UE supporting E-UTRA	100
7.6.1A. 2	(intra-band contiguous DL CA without UL CA)	Rel-10	C20	and intra-band contiguous DL CA but no UL CA	FDD
	1 1 1 1 1 1 6 6 6				TDD
7.6.1A. 3	In-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.6.1B	In-band blocking for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
7.6.2	Out of-band blocking	Rel-8	R	UE supporting E-UTRA	TDD FDD
7.0.2	Sat of balla blooming	11010	``	or supporting E-0 HVA	TDD
7.6.2A. 1	Out of-band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	Out of board bl. 11 Co.			HE composition E UTDA	TDD
7.6.2A. 2	Out of-band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
					TDD

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
7.6.2A. 3	Out of-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.6.2B	Out-of-band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
7.6.3	Narrow band blocking	Rel-8	R	UE supporting E-UTRA	FDD TDD
7.6.3A. 1	Narrow band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
7.6.3A. 2	Narrow band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	Name who and blooking for CA			LIC augmenting CLITDA	TDD
7.6.3A. 3	Narrow band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	Name who and blooking for III			LIC augmenting CLITDA	TDD
7.6.3B	Narrow band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
7.7	Spurious response	Rel-8	R	UE supporting E-UTRA	TDD FDD
7.7	Spullous response	Kei-o	K	OE supporting E-OTKA	TDD
7.7A.1	Spurious response for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
7.7A.2	Spurious response for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	0			LIE avana antica a E LIEDA	TDD
7.7A.3	Spurious response for CA (inter-band DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	Spurious response for III			LIE aupporting E LITEA	TDD
7.7B	Spurious response for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
7.8.1	Wide band Intermodulation	Rel-8	R	UE supporting E-UTRA	TDD FDD
7.0.1	Wide band intermodulation	Kel-o	K	OE supporting E-OTKA	TDD
7.8.1A. 1	Wide band Intermodulation for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	·				TDD
7.8.1A. 2	Wide band Intermodulation for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
			<b>.</b>		TDD
7.8.1A. 3	Wide band Intermodulation for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	Wide head into a state in		1	LIC accompanies - C LICOA	TDD
7.8.1B	Wide band intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
7.0	Countains	Dalo	<u> </u>	HE amproving EUTDA	TDD
7.9	Spurious emissions	Rel-8	R	UE supporting E-UTRA	FDD TDD
Performa	ance Requirement			<u> </u>	1 155
8.2.1.1.	FDD PDSCH Single Antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
_ '	1 Str Chomianos	L	<u> </u>	1,00	l

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.2.1.1. 1_1	FDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C31	UE supporting E-UTRA FDD (UE categories 1, 2)	
8.2.1.1. 1_A.1	FDD PDSCH Single Antenna Port Performance for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	
8.2.1.1. 1_A.2	FDD PDSCH Single Antenna Port Performance for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.2.1.1. 2	FDD PDSCH Single Antenna Port Performance with 1 PRB in presence of MBSFN	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.2. 1	FDD PDSCH Transmit Diversity 2x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.2. 1_1	FDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C15	UE supporting E-UTRA FDD (UE category 1)	
8.2.1.2. 2	FDD PDSCH Transmit Diversity 4x2	Rel-8	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	
8.2.1.2. 2_1	FDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.3. 1	FDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.3. 1_A.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	
8.2.1.3. 1_A.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.2.1.3. 2	FDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.3. 3_C.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indictor 115	
8.2.1.3. 3_C.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indictor 115	
8.2.1.4. 1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.2.1.4. 1_1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.4. 2	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.2.1.4. 2_1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.4. 2_A.1	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.2.1.4. 2_A.2	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.2.2.1 8.2.2.1. 1	Void TDD PDSCH Single Antenna Port Performance	Rel-8	C02	UE supporting E-UTRA	
8.2.2.1. 1_1	TDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.1. 1_A.1	TDD PDSCH Single Antenna Port Performance for CA (intra-band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
8.2.2.1. 2	TDD PDSCH Single Antenna Port Performance with 1PRB in the presence of MBSFN	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2	Void				
8.2.2.2.	TDD PDSCH Transmit Diversity 2x2 TDD PDSCH Transmit	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2. 1_1	Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.2. 2	TDD PDSCH Transmit Diversity 4x2	Rel-8	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	
8.2.2.2. 2_1	TDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.3	Void				
8.2.2.3.	TDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.3. 1_A.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (intra-band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
8.2.2.3. 2	TDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.3. 3_C.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
8.2.2.3. 3_C.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
8.2.2.4	Void				
8.2.2.4. 1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.2.2.4. 1_1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.4. 2	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.2.2.4. 2_1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.3.1	Void	1			

Clause	Title	Release		Applicability		
			Condition	Comments		
8.3.1.1. 1_D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103		
8.3.1.1. 2_D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103		
8.3.1.1. 3	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C40	UE supporting E-UTRA FDD and Feature Group Indictor 103 and supporting the optional enhanced performance requirements type A for LTE		
8.3.1.2. 1_D	FDD PDSCH Dual-layer Spatial Multiplexing for eDL- MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103		
8.3.2.1. 1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 8 and forward)	Rel-8	C02	UE supporting E-UTRA TDD		
8.3.2.1. 1_1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 9 and forward)	Rel-9	C16	UE supporting E-UTRA TDD (UE category 1)		
8.3.2.1. 2	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 without a simultaneous transmission	Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD.		
		Rel-10	C02	UE supporting E-UTRA TDD.		
8.3.2.1. 2_D	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104		
8.3.2.1. 3	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 with a simultaneous transmission	Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD.		
		Rel-10	C02	UE supporting E-UTRA TDD.		
8.3.2.1. 3_D	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103		
8.3.2.1. 4	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C41	UE supporting E-UTRA TDD and Feature Group Indictor 103 and supporting the optional enhanced performance requirements type A for LTE		
8.3.2.2. 1	TDD PDSCH Dual-layer Spatial Multiplexing	Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD.		
		Rel-10	C02	UE supporting E-UTRA TDD.		
8.3.2.2.	TDD PDSCH Dual-layer	Rel-10	C25	UE supporting E-UTRA		

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
1_D	Spatial Multiplexing for eDL-MIMO			TDD and eDL-MIMO and Feature Group Indicator 103	
8.4.1.1	FDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.4.1.2	Void				
8.4.1.2. 1	FDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	
8.4.1.2. 1_1	FDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.4.1.2. 2	FDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.4.1.2. 2_1	FDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.4.2.1	TDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.4.2.2	Void				
8.4.2.2. 1	TDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	
8.4.2.2. 1_1	TDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.4.2.2. 2	TDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.4.2.2. 2_1	TDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.1.1	FDD PHICH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.5.1.2	Void				
8.5.1.2. 1	FDD PHICH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	
8.5.1.2. 1_1	FDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.5.1.2. 2	FDD PHICH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.5.1.2. 2_1	FDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.5.2.1	TDD PHICH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.5.2.2	Void				
8.5.2.2. 1	TDD PHICH Transmit Diversity 2x2	Rel-8 only	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	
8.5.2.2. 1_1	TDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.2.2. 2	TDD PHICH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.5.2.2. 2_1	TDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.2.2. 3_C.1	TDD PHICH Transmit Diversity 2x2 for eICIC (non- MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
8.7.1.1	FDD sustained data rate performance	Rel-9	C01	UE supporting E-UTRA FDD	It is not necessary for CA UEs to be tested in this test if 8.7.1.1_A.1 or 8.7.1.1_A.2 is executed.
8.7.1.1_ A.1	FDD Sustained data rate performance for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	
8.7.1.1_ A.2	FDD Sustained data rate performance for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.7.2.1	TDD sustained data rate performance	Rel-9	C02	UE supporting E-UTRA TDD	It is not necessary for CA UEs to be tested in this test if 8.7.2.1_A.1 is executed.
8.7.2.1 <sub>_</sub>	TDD sustained data rate performance (Rel-10 and forward)	Rel-10	C02	UE supporting E-UTRA TDD (UE categories 6, 7)	It is not necessary for CA UEs to be tested in this test if 8.7.2.1_A.1 is executed.
8.7.2.1_ A.1	TDD sustained data rate performance for CA (intraband contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
Reportin	g of Channel State Information	n		_	
9.2.1.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.1.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.2.1.4_ C.1	TDD CQI Reporting under AWGN conditions - PUCCH 1-0 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
9.2.2.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-1	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.2.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-1	Rel-8	C02	UE supporting E-UTRA TDD	
9.2.3.1_ D	FDD CQI Reporting under AWGN conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.2.3.2_ D	TDD CQI Reporting under AWGN conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
9.3.1.1. 1	FDD CQI Reporting under fading conditions - PUSCH 3-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.1.1. 2	TDD CQI Reporting under fading conditions - PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.3.1.2. 1_D	FDD CQI Reporting under fading conditions - PUSCH 3-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.3.1.2. 2_D	TDD CQI Reporting under fading conditions - PUSCH 3-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	
9.3.2.1. 1	FDD CQI Reporting under fading conditions - PUCCH 1-0	Rel-8	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.3.2.1. 1_1	FDD CQI Reporting under fading conditions - PUCCH 1-0 (Release 9 and forward)	Rel-9	C15	UE supporting E-UTRA FDD (UE category 1)	
9.3.2.1. 2	TDD CQI Reporting under fading conditions - PUCCH 1-0	Rel-8	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.3.2.1. 2_1	TDD CQI Reporting under fading conditions - PUCCH 1-0 (Release 9 and forward)	Rel-9	C16	UE supporting E-UTRA TDD (UE category 1)	
9.3.2.2. 1_D	FDD CQI Reporting under fading conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.3.2.2. 2_D	TDD CQI Reporting under fading conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C28	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicators 104 and 110	
9.3.3.1. 1	FDD CQI Reporting under fading conditions and frequency-selective interference - PUSCH 3-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.3.1. 2	TDD CQI Reporting under fading conditions and frequency-selective interference - PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.3.4.1. 1	FDD CQI Reporting under fading conditions - PUSCH 2-0	Rel-9	C35	UE supporting E-UTRA FDD and Feature Group Indicator 1	
9.3.4.1. 2	TDD CQI Reporting under fading conditions - PUSCH 2-0	Rel-9	C37	UE supporting E-UTRA TDD and Feature Group Indicator 1	
9.3.4.2. 1	FDD CQI Reporting under fading conditions - PUCCH 2-0	Rel-9	C36	UE supporting E-UTRA FDD and Feature Group Indicator 2	
9.3.4.2. 2	TDD CQI Reporting under fading conditions - PUCCH 2-0	Rel-9	C38	UE supporting E-UTRA TDD and Feature Group Indicator 2	
9.4.1.1. 1	FDD PMI Reporting - PUSCH 3-1 (Single PMI)	Rel-8	C01	UE supporting E-UTRA FDD	
9.4.1.1. 2	TDD PMI Reporting - PUSCH 3-1 (Single PMI)	Rel-8	C02	UE supporting E-UTRA TDD	
9.4.1.2.1	FDD PMI Reporting - PUCCH 2-1 (Single PMI)	Rel-9	C36	UE supporting E-UTRA FDD and Feature Group Indicator 2	
9.4.1.2.2	TDD PMI Reporting - PUCCH 2-1 (Single PMI)	Rel-9	C38	UE supporting E-UTRA TDD and Feature Group	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
				Indicator 2	
9.4.1.3.1 _D	FDD PMI Reporting - PUSCH 3-1 (Single PMI) for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.4.1.3. 2_D	TDD PMI Reporting - PUSCH 3-1 (Single PMI) for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	
9.4.2.1. 1	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI)	Rel-8 only	C11, C17	UE supporting E-UTRA FDD and operating bands supporting 20 MHz Bandwidth	
9.4.2.1. 1_1	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI) (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
9.4.2.1. 2	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI)	Rel-8 only	C12, C18	UE supporting E-UTRA TDD and operating bands supporting 20 MHz Bandwidth	
9.4.2.1. 2_1	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI) (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
9.4.2.2. 1	FDD PMI Reporting - PUSCH 2-2 (Multiple PMI)	Rel-9	C32	UE supporting E-UTRA FDD and Feature Group Indicators 1	
9.4.2.2. 2	TDD PMI Reporting - PUSCH 2-2 (Multiple PMI)	Rel-9	C33	UE supporting E-UTRA TDD and Feature Group Indicators 1	
9.4.2.3. 1_D	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI) for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.4.2.3. 2_D	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI) for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	
9.5.1.1	FDD RI Reporting - PUCCH 1-1	Rel-8 and Rel-9 only	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.5.1.1_ 1	FDD RI Reporting - PUCCH 1-1 (Release 10)	Rel-10 only	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.5.1.1 <sub>_</sub>	FDD RI Reporting- PUCCH 1-1 (Release 11)	Rel-11	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.5.1.2	TDD RI Reporting - PUSCH 3-1	Rel-8 and Rel-9 only	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.5.1.2_ 1	TDD RI Reporting - PUSCH 3-1 (Release 10)	Rel-10 only	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.5.1.2_ 2	TDD RI Reporting- PUSCH 3-1 (Release 11)	Rel-11	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.5.2.1_ D	FDD RI Reporting - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicators 103	
9.5.2.2_ D	TDD RI Reporting - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	
9.5.3.1_ C.1	FDD RI Reporting – PUCCH 1-0 for elCIC (non-MBSFN	Rel-10	C29	UE supporting E-UTRA FDD and Feature Group	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
	ABS)			Indicator 115	
9.5.3.2_ C.1	TDD RI Reporting – PUCCH 1-0 for eICIC (non-MBSFN ABS)	Rel-10	C30	UE supporting E-UTRA TDD and Feature Group Indicator 115	
9.6.1.1_ A.2	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (inter band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
9.6.1.2_ A.1	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (intra band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
MBMS P	erformance Testing				
10.1	FDD MBMS performance (Fixed Reference Channel)	Rel-9	1 (.113	UE supporting E-UTRA FDD and MBMS	
10.2	TDD MBMS performance (Fixed Reference Channel)	Rel-9		UE supporting E-UTRA TDD and MBMS	

Table 4.1-1a: Applicability of RF conformance test cases Conditions

C01 IF A.4.1-1/1 THEN R ELSE N/A C02 IF A.4.1-1/2 THEN R ELSE N/A C03 IF (A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A C04 IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A C07 IF ((A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/3) THEN R ELSE N/A C08 IF (A.4.1-1/1 OR A.4.1-1/2) THEN R ELSE N/A C09 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/1) AND A.4.3-3a/6) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF ((A.4.1-1/1) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C03 IF (A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A C04 IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A C08 IF (A.4.1-1/1 OR A.4.1-1/2) THEN R ELSE N/A C09 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C04 IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A  C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A  C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/1 OR A.4.1-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A  C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSÉ N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSÉ N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C14 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C14 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/2) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C16 IF (A.4.1-1/2 AND A.4.3-4/1) THEN R ELSE N/A
C17 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5) THEN R ELSE N/A
C18 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5) THEN R ELSE N/A
C19 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.6.1-1/2 AND A.4.6.1-2/2) THEN R ELSE N/A
C20 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.6.1-1/2 AND NOT (A.4.6.1-2/1 OR A.4.6.1-2/2)) THEN R ELSE N/A
C21 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.6.3-1/1) THEN R ELSE N/A
C22 IF (A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C23 IF (A.4.1-1/1 AND A.4.6.3-1/1) THEN R ELSE N/A
C24 IF (A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A
C25 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/103) THEN R ELSE N/A
C26 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/104) THEN R ELSE N/A
C27 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/104 AND A.4.4-3/109) THEN R ELSE N/A
C28 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/104 AND A.4.4-3/110) THEN R ELSE N/A
C29 IF (A.4.1-1/1 AND A.4.4-3/115) THEN R ELSE N/A
C30 IF (A.4.1-1/2 AND A.4.4-3/115) THEN R ELSE N/A
C31 IF (A.4.1-1/1 AND (A.4.3-4/1 OR A.4.3-4/2)) THEN R ELSE N/A
C32 IF (A.4.1-1/1 AND A.4.4-1/1) THEN R ELSE N/A
C33 IF (A.4.1-1/2 AND A.4.4-1/1) THEN R ELSE N/A
C34 IF (A.4.1-1/2 AND A.4.2-1/5) THEN R ELSE N/A
C35 IF A.4.1-1/1 AND A.4.4-1/1 THEN R ELSE N/A
C36 IF A.4.1-1/1 AND A.4.4-1/2 THEN R ELSE N/A
C37 IF A.4.1-1/2 AND A.4.4-1/1 THEN R ELSE N/A
C38 IF A.4.1-1/2 AND A.4.4-1/2 THEN R ELSE N/A
C39 IF((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3b/1) THEN R ELSE N/A
C40 IF (A.4.1-1/1 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A
C41 IF (A.4.1-1/2 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A
OTI II (1/1.T. I 1/2 / 1/10 / 1/1.T. T-0/ 100 / 1/10 / 1/11) IIILIN IX LEGE IN//

# 4.2 RRM conformance test cases

Table 4.2-1: Applicability of RRM conformance test cases, ref. TS 36.521-3 [2]

E-UTRAN RC. IDLE State Mobility  4.2.1 E-UTRAN FDD - FDD cell reselection intra frequency case 4.2.2 E-UTRAN TDD - TDD cell reselection intra frequency case 4.2.3 E-UTRAN TDD - TDD cell reselection inter frequency case 4.2.4 E-UTRAN FDD - TDD cell reselection inter frequency case 4.2.5 E-UTRAN FDD - TDD cell reselection inter frequency case 4.2.6 E-UTRAN FDD - TDD cell reselection inter frequency case 4.2.7 E-UTRAN FDD - FDD cell reselection inter frequency case 4.2.8 E-UTRAN FDD - TDD cell reselection inter frequency case 4.2.7 E-UTRAN FDD - FDD Inter frequency case in the existence of non-allowed CSG cell 4.3.1.1 E-UTRAN FDD - TDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.1.1 E-UTRAN FDD - UTRAN FDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.1.2 E-UTRAN FDD - UTRAN FDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.3.3 E-UTRAN FDD - UTRAN FDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.4.3 E-UTRAN FDD - UTRAN FDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.4.4 E-UTRAN FDD - UTRAN FDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.5 E-UTRAN FDD - UTRAN FDD cell reselection inter frequency case in the existence of non-allowed CSG cell 4.3.6 E-UTRAN FDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD is of lower priority 4.3.7 E-UTRAN FDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD is of lower priority 4.3.8 E-UTRAN FDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD is of lower priority 4.3.9 E-UTRAN FDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD in TDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD in TDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD in TDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD in	Clause	Title	Release		Applicability	Additional Information
E-UTRAN RRC, IDLE State Mobility 4.2.1 E-UTRAN FDD - FDD cell reselection intra frequency case 4.2.2 E-UTRAN TDD - TDD cell reselection intra frequency case 4.2.3 E-UTRAN FDD - FDD cell reselection intra frequency case 4.2.4 E-UTRAN FDD - FDD cell reselection intra frequency case 4.2.5 E-UTRAN FDD - FDD cell reselection intra frequency case 4.2.6 E-UTRAN FDD - FDD cell reselection inter frequency case 4.2.6 E-UTRAN TDD - FDD cell reselection inter frequency case 4.2.7 E-UTRAN TDD - TDD cell reselection inter frequency case 4.2.8 E-UTRAN TDD - TDD cell reselection inter frequency case 4.2.9 E-UTRAN FDD - FDD Inter 6.0 Fequency case in the existence of non-allowed CSG cell 4.2.0 F-UTRAN FDD - FDD cell reselection: UTRA FDD cell reselection: UTRA FDD cell reselection: UTRA FDD cell reselection: UTRA FDD is of lower priority 4.3.1.1 E-UTRAN FDD - UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD cell reselection in fading propagation conditions: UTRA FDD UTRAN FDD Cell reselection in HPD is of lower priority utransity in the				Condition	Comments	Release on other RAT
4.2.1   E-UTRAN FDD - FDD cell reselection inter frequency case   Rel-8   C02   UE supporting E-UTRA FDD	E-UTRAN	RRC IDLE State Mobility		l		Other Ital
A.2.2   E-UTRAN TDD - TDD cell reselection intra frequency case		E-UTRAN FDD - FDD cell re-	Rel-8	C01	UE supporting E-UTRA FDD	
4.2.4   E-UTRAN FDD - FDD cell reselection inter frequency case	4.2.2	E-UTRAN TDD - TDD cell re-	Rel-8	C02	UE supporting E-UTRA TDD	
4.2.5   E-UTRAN FDD - TDD cell reselection inter frequency case   2.17   2.2   2.2   2.2   2.3	4.2.3	E-UTRAN FDD - FDD cell re-	Rel-8	C01	UE supporting E-UTRA FDD	
4.2.5   E-UTRAN TDD - FDD cell reselection inter frequency case   4.2.6   E-UTRAN TDD - FDD cell reselection inter frequency case   4.2.7   E-UTRAN FDD - FDD Inter frequency case in the existence of non-allowed CSG cell   4.2.8   E-UTRAN FDD - TDD Inter frequency case in the existence of non-allowed CSG cell   4.2.8   E-UTRAN FDD - TDD Inter frequency case in the existence of non-allowed CSG cell   4.3.1.1   E-UTRA FDD - TDD Inter frequency case in the existence of non-allowed CSG cell   4.3.1.2   E-UTRA FDD - UTRAN FDD cell reselection   4.3.1.2   E-UTRA FDD - UTRAN FDD cell reselection   4.3.1.3   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.1.3   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.1.3   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.1.4   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.1.5   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.3   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.3   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.1   E-UTRA FDD - UTRAN FDD cell reselection   4.3.4.2   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.2   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.2   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.3   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.4   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.5   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.6   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.7   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.8   E-UTRAN FDD - UTRAN FDD cell reselection   4.3.4.9   E-UTRAN FDD	4.2.4	E-UTRAN FDD - TDD cell re-	Rel-9	C03		
4.2.6 E-UTRAN TDD - TDD cell reselection inter frequency case 4.2.7 E-UTRAN FDD - FDD Inter frequency case in the existence of non-allowed CSG cell consultation on-allowed CSG cell consultation o	4.2.5		Rel-9	C03		
4.2.7   E-UTRAN FDD - FDD Inter frequency case in the existence of non-allowed CSG cell   Rel-9   C02   UE supporting E-UTRA FDD	4.2.6	E-UTRAN TDD - TDD cell re-	Rel-8	C02		
frequency case in the existence of non-allowed CSG cell  4.3.1.1		E-UTRAN FDD – FDD Inter frequency case in the existence of non-allowed CSG cell			5	
re-selection  4.3.1.2 E-UTRA FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority  4.3.1.3 E-UTRAN FDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA FDD is of lower priority  4.3.2 E-UTRAN FDD - UTRAN FDD cell re-selection  4.3.3 E-UTRAN FDD - UTRAN FDD cell re-selection  4.3.4.1 E-UTRAN TDD - UTRAN FDD cell re-selection  4.3.4.2 E-UTRAN TDD - UTRAN FDD cell re-selection  4.3.4.1 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.3 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.1 E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority  4.3.4.3 E-UTRAN TDD - UTRAN TDD cell re-selection in fading propagation conditions: UTRA TDD is of lower priority  4.3.4.1 E-UTRAN TDD - GSM cell re-selection  4.3.4.2 E-UTRAN TDD - GSM cell re-selection: UTRA TDD is of lower priority  4.4.1 E-UTRAN TDD - GSM cell re-selection  4.5.1.1 E-UTRAN TDD - GSM cell re-selection: HRPD is of lower priority  4.5.2.1 E-UTRAN TDD - HRPD Cell Rel-8 C10 UE supporting E-UTRA TDD and GSM  4.5.2.1 E-UTRAN TDD - HRPD Cell Rel-8 C10 UE supporting E-UTRA TDD and GSM  4.6.1.1 E-UTRAN TDD - Cell Rel-8 C10 UE supporting E-UTRA TDD and Cdma2000 HRPD and Cd		frequency case in the existence of non-allowed CSG cell				
re-selection: UTRA FDD is of lower priority  4.3.1.3 E-UTRAN FDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA FDD is of lower priority  4.3.2 E-UTRAN FDD - UTRAN FDD cell re-selection  4.3.3 E-UTRAN FDD - UTRAN FDD cell re-selection  4.3.4.1 E-UTRAN FDD - UTRAN FDD cell re-selection  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.3 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.4 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.5 E-UTRAN FDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA is of lower priority  4.3.4.2 E-UTRAN FDD - GSM cell re-selection  4.3.4.3 E-UTRA TDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA TDD cell re-selection in fading propagation conditions: UTRA FDD is of lower priority  4.3.4.1 E-UTRAN FDD - GSM cell re-selection  4.3.4.2 E-UTRAN FDD - GSM cell re-selection  4.3.4.3 E-UTRAN FDD - GSM cell re-selection  4.3.4.4 E-UTRAN FDD - GSM cell re-selection  4.4.4 E-UTRAN FDD - GSM cell re-selection  4.5.1.1 E-UTRAN FDD - HRPD Cell re-selection: Rel-8 C10 UE supporting E-UTRA FDD and cdma2000 HRPD  4.5.2.1 E-UTRAN FDD - HRPD Cell Reselection: Rel-8 C10 UE supporting E-UTRA FDD and cdma2000 HRPD  4.6.1.1 E-UTRAN FDD - cdma2000 Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT		re-selection			and UTRA FDD	
re-selection in fading propagation conditions: UTRA FDD is of lower priority  4.3.2 E-UTRAN FDD - UTRAN TDD cell re-selection  4.3.3 E-UTRAN TDD - UTRAN FDD cell Rel-8 C07 UE supporting E-UTRA FDD re-selection  4.3.4.1 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority  4.3.4.3 EUTRA TDD-UTRAN TDD cell re-selection in fading propagation conditions: UTRA TDD is of lower priority  4.3.4.1 E-UTRAN FDD - GSM cell re-selection  4.3.4.2 E-UTRAN TDD cell re-selection in fading propagation conditions: UTRA TDD is of lower priority  4.3.4.3 EUTRA TDD - GSM cell re-selection  4.4.1 E-UTRAN FDD - GSM cell re-selection  4.4.2 E-UTRAN FDD - GSM cell re-selection: UE supporting E-UTRA TDD and GSM  4.5.1.1 E-UTRAN FDD - HRPD Cell re-selection: HRPD is of lower priority  4.5.2.1 E-UTRAN TDD - HRPD Cell Rel-8 C10 UE supporting E-UTRA FDD and cdma2000 HRPD religion; UE supporting E-UTRA TDD and cdma2000 HRPD religion; UE supporting E-UTRA TDD and cdma2000 HRPD religion; UE supporting E-UTRA TDD and cdma2000 HRPD and cdma2000 HRPD religion; UE supporting E-UTRA TDD and cdma2000 HRPD and cdma2000 HRPD and cdma2000 HRPD religion; UE supporting E-UTRA FDD and cdma2000 HRPD religion; UE supporting E-UTRA FDD and cdma2000 HRPD and cdma2000 HRP		re-selection: UTRA FDD is of lower priority	Rel-8		and UTRA FDD	
re-selection  4.3.3 E-UTRAN TDD - UTRAN FDD cell re-selection  4.3.4.1 E-UTRAN TDD - UTRAN TDD cell re-selection  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA TDD cell re-selection: UTRA is of lower priority  4.3.4.3 EUTRA TDD-UTRA TDD cell re-selection in fading propagation conditions: UTRA TDD is of lower priority  4.4.4.1 E-UTRAN FDD - GSM cell re-selection  4.5.1.1 E-UTRAN FDD - HRPD Cell re-selection: HRPD is of lower priority  4.5.2.1 E-UTRAN FDD - HRPD Cell Rel-9 C34 UE supporting E-UTRA TDD related to the selection: HRPD is of Lower priority  4.6.1.1 E-UTRAN FDD - Cdma2000 Rel-8 C11 UE supporting E-UTRA FDD related to the selection: HRPD cell re-selection: HRPD is of Lower priority  4.6.1.1 E-UTRAN FDD - cdma2000 Rel-8 C11 UE supporting E-UTRA FDD related to the supporting E-UTRA TDD related to	4.3.1.3	re-selection in fading propagation conditions: UTRA FDD is of lower	Rel-8	C04		
re-selection  4.3.4.1 E-UTRA TDD - UTRAN TDD cell re-selection  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority  4.3.4.3 E-UTRA TDD-UTRA TDD cell reselection in fading propagation conditions: UTRA TDD is of lower priority  4.4.1 E-UTRAN TDD - GSM cell reselection  4.4.2 E-UTRAN TDD - GSM cell reselection  4.5.1.1 E-UTRAN FDD - HRPD Cell reselection: HRPD is of lower priority  4.5.2.1 E-UTRAN TDD - HRPD Cell Rel-8 C10 UE supporting E-UTRA TDD and cdma2000 HRPD resident HRPD is of Lower priority  4.6.1.1 E-UTRAN FDD - Cdma2000 Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT cell re-selection: HRPD is and cdma2000 1xRTT and cdma2000 1xRTT		re-selection	Rel-8		and UTRA TDD	Rel-9 UTRA TDD
re-selection  4.3.4.2 E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority  4.3.4.3 EUTRA TDD-UTRA TDD cell reselection in fading propagation conditions: UTRA TDD is of lower priority  4.4.1 E-UTRAN FDD - GSM cell reselection  4.4.2 E-UTRAN TDD - GSM cell reselection  4.5.1.1 E-UTRAN FDD - HRPD Cell reselection: HRPD is of lower priority  4.5.2.1 E-UTRAN TDD - HRPD Cell Rel-8 C10 UE supporting E-UTRA TDD and Cdma2000 HRPD Reselection: HRPD is of Lower Priority  4.6.1.1 E-UTRAN FDD - cdma2000 Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT Cell re-selection: Rel-8 C11 UE supporting E-UTRA TDD and cdma2000 1xRTT Cell re-selection: Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT	4.3.3	re-selection	Rel-8		and UTRA FDD	
re-selection: UTRA is of lower priority  4.3.4.3	4.3.4.1	re-selection		C05	and UTRA TDD	Rel-9 UTRA TDD
reselection in fading propagation conditions: UTRA TDD is of lower priority  4.4.1 E-UTRAN FDD - GSM cell reselection  4.4.2 E-UTRAN TDD - GSM cell reselection  4.5.1.1 E-UTRAN FDD - HRPD Cell reselection: HRPD is of lower priority  4.5.2.1 E-UTRAN TDD - HRPD Cell Reselection: HRPD is of Lower Priority  4.6.1.1 E-UTRAN FDD - cdma2000 1xRTT Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT  Tand UTRA TDD	4.3.4.2	re-selection: UTRA is of lower	Rel-8	C05	and UTRA TDD	Rel-9 UTRA TDD
Selection   Sele	4.3.4.3	reselection in fading propagation conditions: UTRA TDD is of lower priority	Rel-8	C05		Rel-9 UTRA TDD
Selection   Sele	4.4.1		Rel-8	C08	and GSM	
selection: HRPD is of lower priority  4.5.2.1 E-UTRAN TDD - HRPD Cell Reselection: HRPD is of Lower Priority  4.6.1.1 E-UTRAN FDD - cdma2000 Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT LE-UTRA FDD and cdma2000 1xRTT	4.4.2	selection	Rel-8		and GSM	
Reselection: HRPD is of Lower Priority and cdma2000 HRPD  4.6.1.1 E-UTRAN FDD - cdma2000 Rel-8 C11 UE supporting E-UTRA FDD and cdma2000 1xRTT and cdma2000 1xRTT	4.5.1.1	selection: HRPD is of lower priority	Rel-8	C10		
1xRTT Cell re-selection: and cdma2000 1xRTT	4.5.2.1	E-UTRAN TDD - HRPD Cell Reselection: HRPD is of Lower Priority	Rel-9		and cdma2000 HRPD	
cdma2000 1x is of lower priority		1xRTT Cell re-selection: cdma2000 1x is of lower priority	Rel-8		and cdma2000 1xRTT	
4.6.2.1 E-UTRAN TDD-cdma2000 1X Cell Rel-9 C35 UE supporting E-UTRA TDD and cdma2000 1xRTT and cdma2000 1xRTT  E-UTRAN RRC_CONNECTED State Mobility		E-UTRAN TDD-cdma2000 1X Cell Reselection: cdma2000 1X is of Lower Priority	Rel-9	C35		

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
5.1.1	E-UTRAN FDD - FDD Handover intra frequency case	Rel-8	C01	UE supporting E-UTRA FDD	
5.1.2	E-UTRAN TDD - TDD Handover intra frequency case	Rel-8	C02	UE supporting E-UTRA TDD	
5.1.3	E-UTRAN FDD - FDD Handover inter frequency case	Rel-8	C01d	UE supporting E-UTRA FDD and Feature Group Indicators 5, 13 and 25	
5.1.4	E-UTRAN TDD - TDD Handover inter frequency case	Rel-8	C02d	UE supporting E-UTRA TDD and Feature Group Indicators 5, 13 and 25	
5.1.5	E-UTRAN FDD - FDD inter frequency handover: unknown target cell	Rel-8	C01a	UE supporting E-UTRA FDD and Feature Group Indicators 13 and 25	
5.1.6	E-UTRAN TDD-TDD inter frequency handover: unknown target cell	Rel-8	C02a	UE supporting E-UTRA TDD and Feature Group Indicators 13 and 25	
5.1.7	E-UTRAN FDD – TDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30	
5.1.8	E-UTRAN TDD – FDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30	
5.2.1	E-UTRAN FDD - UTRAN FDD handover	Rel-8	C04a	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 8 and 22	
5.2.2	E-UTRAN TDD - UTRAN FDD handover	Rel-8	C07a	UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicators 8 and 22	
5.2.3	E-UTRAN FDD - GSM handover	Rel-8	C08e	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9, 15 and 23	
5.2.4	E-UTRAN TDD - UTRAN TDD handover	Rel-8	C05a	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 8 and 22	Rel-9 UTRA TDD
5.2.5	E-UTRAN FDD - UTRAN TDD handover	Rel-8	C06a	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 8 and 22	Rel-9 UTRA TDD
5.2.6	E-UTRA TDD - GSM handover	Rel-8	C09f	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9, 15 and 23	
5.2.7	E-UTRAN FDD - UTRAN FDD handover: unknown target cell	Rel-8	C04a	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 8 and 22	
5.2.8	E-UTRAN FDD - GSM handover: unknown target cell	Rel-8	C08a	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9 and 23	
5.2.9	E-UTRAN TDD - GSM handover: unknown target cell	Rel-8	C09b	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 9 and 23	
5.2.10	E-UTRAN TDD - UTRAN TDD handover: unknown target cell	Rel-8	C05a	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 8 and 22	Rel-9 UTRA TDD
5.3.1	E-UTRAN FDD - HRPD Handover	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
5.3.2	E-UTRAN FDD - cdma2000 1xRTT handover	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24	
5.3.3	E-UTRAN FDD - HRPD handover: unknown target cell	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26	
5.3.4	E-UTRAN FDD - cdma2000 1xRTT handover: unknown target cell	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24	
5.3.5	E-UTRAN TDD-HRPD Handover	Rel-9	C10a	UE supporting E-UTRA FDD and HRPD and Feature Group Indicators 12 and 26.	
5.3.6	E-UTRAN TDD-cdma2000 1X Handover	Rel-9	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24.	
RRC Con	nection Mobility Control	l l		,	<u> </u>
6.1.1	E-UTRAN FDD Intra-frequency RRC Re-establishment	Rel-8	C01	UE supporting E-UTRA FDD	
6.1.2	E-UTRAN FDD Inter-frequency RRC Re-establishment	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
6.1.3	E-UTRAN TDD Intra-frequency RRC Re-establishment	Rel-8	C02	UE supporting E-UTRA TDD	
6.1.4	E-UTRAN TDD Inter-frequency RRC Re-establishment	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	
6.2.1	E-UTRAN FDD - Contention Based Random Access Test	Rel-8	C01	UE supporting E-UTRA FDD	
6.2.2	E-UTRAN FDD - Non-Contention Based Random Access Test	Rel-8	C01	UE supporting E-UTRA FDD	
6.2.3	E-UTRAN TDD - Contention Based Random Access Test	Rel-8	C02	UE supporting E-UTRA TDD	
6.2.4	E-UTRAN TDD - Non-Contention Based Random Access Test	Rel-8	C02	UE supporting E-UTRA TDD	
6.3.1	Redirection from E-UTRAN FDD to UTRAN FDD	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	
6.3.2	Redirection from E-UTRAN TDD to UTRAN FDD	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD	
6.3.3	Redirection from E-UTRAN FDD to GERAN when System Information is provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN	
6.3.4	Redirection from E-UTRAN TDD to GERAN when System Information is provided	Rel-9	C28	UE supporting E-UTRA TDD and GERAN	
6.3.5	E-UTRA TDD RRC connection release redirection to UTRA TDD	Rel-9	C26	UE supporting E-UTRA TDD and UTRA TDD	
6.3.6	E-UTRA FDD RRC connection release redirection to UTRA TDD	Rel-9	C25	UE supporting E-UTRA FDD and UTRA TDD	
6.3.7	E-UTRA TDD RRC connection release redirection to UTRA TDD without SI provided	Rel-9	C26	UE supporting E-UTRA TDD and UTRA TDD	
6.3.8	E-UTRA FDD RRC connection release redirection to UTRA TDD without SI provided	Rel-9	C25	UE supporting E-UTRA FDD and UTRA TDD	
6.3.9	Redirection from E-UTRAN FDD to UTRAN FDD without System Information	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
6.3.10	Redirection from E-UTRAN FDD to GERAN when System Information is not provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN	
6.3.11	Redirection from E-UTRAN TDD to GERAN when System Information is not provided	Rel-9	C28	UE supporting E-UTRA TDD and GERAN	
6.3.12	E-UTRAN TDD RRC connection release redirection to UTRAN FDD without SI provided	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD	
Timing ar	d Signalling Characteristics				
7.1.1	E-UTRAN FDD - UE Transmit Timing Accuracy	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.1.1_1	E-UTRAN FDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C23	UE supporting E-UTRA FDD but not supporting Feature Group Indicator 5	
7.1.2	E-UTRAN TDD - UE Transmit Timing Accuracy	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
7.1.2_1	E-UTRAN TDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C24	UE supporting E-UTRA TDD but not supporting Feature Group Indicator 5	
7.2.1	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy	Rel-8	C01	UE supporting E-UTRA FDD	
7.2.2	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy	Rel-8	C02	UE supporting E-UTRA TDD	
7.3.1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C01	UE supporting E-UTRA FDD	
7.3.2	E-UTRAN FDD Radio Link Monitoring Test for In-Sync	Rel-8	C01	UE supporting E-UTRA FDD	
7.3.3	E-UTRAN TDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C02	UE supporting E-UTRA TDD	
7.3.4	E-UTRAN TDD Radio Link Monitoring Test for In-Sync	Rel-8	C02	UE supporting E-UTRA TDD	
7.3.5	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.3.6	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.3.7	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
7.3.8	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
7.3.9	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
7.3.10	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
7.3.11	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
7.3.12	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
7.3.13	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
7.3.14	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
7.3.15	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
7.3.16	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
UE Measu	rements Procedures	l I			
8.1.1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01	UE supporting E-UTRA FDD	
8.1.2	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
8.1.3	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
8.1.4	Void	D	0.10		
8.1.5	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra- frequency SI acquisition for HO	
8.1.6	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra- frequency SI acquisition for HO	
8.1.7	E-UTRAN FDD-FDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
8.2.1	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	

Clause	Title	Release		Applicability	Addition Information	
			Condition	Comments		ease on er RAT
8.2.2	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5		
8.2.3	E-UTRAN TDD - TDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C15	UE supporting E-UTRA TDD, CSG and intra- frequency SI acquisition for HO.		
8.2.4	E-UTRAN TDD - TDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C15	UE supporting E-UTRA TDD, CSG and intra- frequency SI acquisition for HO		
8.2.5	E-UTRAN TDD-TDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
8.3.1	E-UTRAN FDD-FDD inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.1 case is executed.	
8.3.2	E-UTRAN FDD-FDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25		
8.3.3	E-UTRAN FDD-FDD inter frequency event triggered reporting under AWGN propagation conditions in asynchronous cells with DRX when L3 filtering is used	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25		
8.3.4	E-UTRAN FDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter- frequency SI acquisition for HO		
8.3.5	E-UTRAN FDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter- frequency SI acquisition for HO.		
8.3.6	E-UTRAN FDD-FDD Inter- frequency event triggered reporting without measurement gaps under AWGN propagation conditions in asynchronous cells	Rel-10	C47	UE supporting E-UTRA FDD and Feature Group Indicator 25 and Measurement without gaps		
8.4.1	E-UTRAN TDD-TDD inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.2 case is executed.	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments		ease on er RAT
8.4.2	E-UTRAN TDD-TDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25		
8.4.3	E-UTRAN TDD-TDD inter- frequency event triggered reporting under AWGN propagation conditions in synchronous cells with DRX when L3 filtering is used	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25		
8.4.4	E-UTRAN TDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter- frequency SI acquisition for HO.		
8.4.5	E-UTRAN TDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter- frequency SI acquisition for HO.		
8.5.1	E-UTRAN FDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04g	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.3 case is executed.	
8.5.2	E-UTRAN FDD-UTRAN FDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C04f	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 19 and 22		
8.5.3	E-UTRAN FDD - UTRAN FDD event triggered reporting when DRX is used under fading propagation conditions	Rel-8	C04d	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 15 and 22		
8.5.4	E-UTRAN FDD - UTRAN FDD enhanced cell identification under AWGN propagation conditions	Rel-9	C29	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 15		
8.5.6	E-UTRAN FDD - UTRAN FDD event triggered reporting without measurement gaps under AWGN propagation conditions	Rel-10	C48	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 15 and 22 and Measurement without gaps		
8.6.1	E-UTRAN TDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C07b	UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicators 15 and 22		
8.7.1	E-UTRAN TDD-UTRAN TDD cell search under fading propagation conditions	Rel-8	C05b	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.4 case is executed.	
8.7.2	E-UTRAN TDD - UTRAN TDD cell search when DRX is used under fading propagation conditions	Rel-8	C05d	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 5, 15 and 22		Rel-9 UTRA TDD

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Release on other RAT	
8.7.3	E-UTRAN TDD - UTRAN TDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C05b	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 22	Rel-9 UTRA TDD	
8.7.4	E-UTRAN TDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C31	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 15		
8.8.1	E-UTRAN FDD-GSM event triggered reporting in AWGN	Rel-8	C08f	UE supporting E-UTRA FDD and GSM and Feature Group Indicator s 15 and 23		
8.8.2	E-UTRAN FDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C08d	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 5, 15 and 23		
8.9.1	E-UTRAN FDD-UTRAN TDD event triggered reporting in fading propagation conditions	Rel-8	C06b	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 22	Rel-9 UTRA TDD	
8.9.2	E-UTRAN FDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C30	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicator 15		
8.10.1	E-UTRAN TDD-GSM event triggered reporting in AWGN	Rel-8	C09g	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 15 and 23		
8.10.2	E-UTRAN TDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C09e	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 5, 15 and 23		
8.11.1	Multiple E-UTRAN FDD-FDD Inter-frequency event triggered reporting under fading propagation conditions	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25		
8.11.2	E-UTRAN TDD - E-UTRAN TDD and E-UTRAN TDD Inter-frequency event triggered reporting under fading propagation conditions	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25		
8.11.3	E-UTRAN FDD-FDD Inter- frequency and UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04e	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 22 and 25		
8.11.4	InterRAT E-UTRA TDD to E- UTRA TDD and UTRA TDD cell search	Rel-8	C05e	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 22 and 25		
8.11.5	Combined E-UTRAN FDD - E- UTRA FDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C08b	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 23		
8.11.6	Combined E-UTRAN TDD - E- UTRA TDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C09a	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 23		
8.12.1	Void					
8.13.1 8.14.1	Void  E-UTRAN TDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25		
8.14.2	E-UTRAN TDD-FDD Inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-9	C38	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 4 and 25		

Clause	Title	Release		Applicability	Additional Information	
			Condition	Comments	Release on other RAT	
8.14.3	E-UTRAN TDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRA FDD and E-UTRA TDD, CSG and inter-frequency SI acquisition for HO and Feature Group Indicator 25		
8.15.1	E-UTRAN FDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25		
8.15.2	E-UTRAN FDD-TDD Inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-9	C38	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 4 and 25		
8.15.3	E-UTRAN FDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRA FDD and E-UTRA TDD, CSG and inter-frequency SI acquisition for HO and Feature Group Indicator 25		
8.16.1	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111		
8.16.2	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111		
8.16.3	E-UTRAN FDD-FDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C32a	UE supporting E-UTRA FDD and intra-band contiguous DL CA and Feature Group Indicator 111		
8.16.4	E-UTRANTDD-TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C33a	UE supporting E-UTRA TDD and intra-band contiguous DL CA and Feature Group Indicator 111		
8.16.5	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111		
8.16.6	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111		
8.18.1	E-UTRAN TDD-HRPD event triggered reporting under fading propagation conditions	Rel-9	C40	UE supporting E-UTRA TDD and cdma2000 HRPD and Feature Group Indicator 15		
8.19.1	E-UTRAN TDD-CDMA2000 1X event triggered reporting under fading propagation conditions	Rel-9	C41	UE supporting E-UTRA TDD and cdma2000 1xRTT and Feature Group Indicator 15		
8.20.1	E-UTRAN FDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-10	C18	UE supporting E-UTRA FDD and CA		
8.20.2	E-UTRAN TDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-10	C19	UE supporting E-UTRA TDD and CA		
8.20.3	E-UTRAN FDD - UTRAN FDD event triggered reporting under fading propagation conditions	Rel-10	C43	UE supporting E-UTRA FDD, CA and UTRA FDD and Feature Group Indicator 15		

Clause	Title	Release		Additional Information	
			Condition	Comments	Release on other RAT
8.20.4	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions	Rel-10	C44	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	
	nent Performance Requirements				
9.1.1.1	FDD Intra Frequency Absolute RSRP Accuracy	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16	
9.1.1.2	FDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16	
9.1.2.1	TDD Intra Frequency Absolute RSRP Accuracy	Rel-8	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16	
9.1.2.2	TDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16	
9.1.3.1	FDD - FDD Inter Frequency Absolute RSRP Accuracy	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25	
9.1.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRP	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25	
9.1.4.1	TDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-8	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25	
9.1.4.2	TDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-8	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25	
9.1.5.1	FDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25	
9.1.5.2	FDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators and 25	
9.1.6.1	FDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	
9.1.6.2	FDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	
9.1.7.1	TDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	
9.1.7.2	TDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	
9.1.8.2	FDD Relative RSRP under Time- Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
9.1.9.2	TDD Relative RSRP under Time- Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
9.1.10.1	FDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
9.1.10.2	FDD Relative RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (elCIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Release on other RAT	
9.1.11.1	TDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
9.1.11.2	TDD Relative RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
9.1.13.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA		
9.1.13.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA		
9.2.1.1	FDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16		
9.2.2.1	TDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16		
9.2.9.1	FDD Absolute RSRQ under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		
9.2.10.1	TDD Absolute RSRQ under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
9.2.3.1	FDD - FDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25		
9.2.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25		
9.2.4.1	TDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.4.2	TDD -TDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.4A.1	FDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.4A.2	FDD - TDD Inter Frequency Relative Accuracy of RSRQ	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.5.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA		
9.2.5.2	FDD Relative RSRQ Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA		
9.2.6.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA		
9.2.6.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA		
9.2.12.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA		
9.2.12.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA		

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
9.3.1	E-UTRAN FDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	
9.4.1	E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	
9.3.2	E-UTRAN TDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD	
9.4.2	E-UTRAN TDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD	
9.6.1	GSM RSSI accuracy for E-UTRAN FDD	Rel-9	C08g	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 16 and 23	
9.6.2	GSM RSSI accuracy for E-UTRAN TDD	Rel-9	C09h	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 16 and 23	

Table 4.2-1a: Applicability of RRM conformance test cases Conditions

C01 IF A.4.1-1/1 THEN R ELSE N/A
C01a IF (A.4.1-1/1 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C01b IF (A.4.1-1/1 AND A.4.4-1/25) THEN R ELSE N/A
C01c IF (A.4.1-1/1 AND A.4.4-1/5) THEN R ELSE N/A
C01d IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C01e IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A
C01f IF (A.4.1-1/1 AND A.4.4-1/16) THEN R ELSE N/A
C01g IF (A.4.1-1/1 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A
C02 IF A.4.1-1/2 THEN R ELSE N/A
C02a IF (A.4.1-1/2 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C02b IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A
C02c IF (A.4.1-1/2 AND A.4.4-1/5) THEN R ELSE N/A
C02d IF (A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C02e IF (A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A
C02f IF (A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A
C02g IF (A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A
C03 IF (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A
C04 IF (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A
C04a IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A
C04b IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A
C04c Void
C04d IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A
C04e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A
C04f IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/19 AND A.4.4-1/22) THEN R ELSE N/A
C04g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A
C05 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A
C05a IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A
C05b IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A
C05c Void
C05d IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A
C05e IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A
C06 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A
C06a IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/11 AND A.4.4-1/22) THEN R ELSE N/A
C06b IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A
C07 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A
C07a IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A
C07b IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A
C07c Void
C08 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A
C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A
C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A
C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A
C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A
C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A
C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A
C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A
C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A
C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A
C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A
C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSÉ N/A
C09d Void
C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A
C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A
C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSÉ N/A
C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A
C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A
C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A
C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A
C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A
C12 Void
C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A
C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A
C15 IF (A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A
,

C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A C20 Void C21 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/25 AND A.4.4-1/25 AND A.4.4-1/30) THEN R ELSE N/A C22 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A C23 IF (A.4.1-1/1 AND NOT A.4.4-1/5) THEN R ELSE N/A C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A C25 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A C26 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A C27 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A C28 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C29 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C30 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.3-111) THEN R ELSE N/A C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.3-111) THEN R ELSE N/A C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.3-111) THEN R ELSE N/A C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1/20) THEN R ELSE N/A C34 IF (A.4.1-1/2 AND A.4.1-1/6 THEN R ELSE N/A C35 IF (A.4.1-1/2 AND A.4.1-1/7 THEN R ELSE N/A C36 IF (A.4.1-1/2 AND A.4.1-1/7 THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/20) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/14 AND A.4.4-1/25) THEN R ELSE N/A C40 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/1	C16	IF (A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A
C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C20 Void  C21 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25 AND A.4.4-1/30) THEN R ELSE N/A  C22 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  C23 IF (A.4.1-1/1 AND NOT A.4.4-1/5) THEN R ELSE N/A  C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A  C25 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C26 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C40 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C17	Void
C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C20 Void  C21 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25 AND A.4.4-1/30) THEN R ELSE N/A  C22 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  C23 IF (A.4.1-1/1 AND NOT A.4.4-1/5) THEN R ELSE N/A  C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A  C25 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C26 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C40 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/16 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C18	IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A
C21 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25 AND A.4.4-1/30) THEN R ELSE N/A C22 IF (A.4.1-1/1 AND DA.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A C23 IF (A.4.1-1/1 AND NOT A.4.4-1/5) THEN R ELSE N/A C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A C25 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A C26 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A C27 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A C28 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C29 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A C30 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C35 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C36 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A C38 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C19	IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A
C22 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A  C25 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C26 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  C28 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C40 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/16) THEN R ELSE N/A  C44 IF (A.4.1-1/1 AND A.4.1-1/16 AND A.4.4-1/16) THEN R ELSE N/A  C45 IF (A.4.1-1/1 AND A.4.1-1/16 AND A.4.4-1/16) THEN R ELSE N/A	C20	Void
C23 IF (A.4.1-1/1 AND NOT A.4.4-1/5) THEN R ÉLSE N/A  C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A  C25 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  C26 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6) AND A.4.4-1/12 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15 THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15 THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15 THEN R ELSE N/A  C40 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C44 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C45 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C47 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C48 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C21	IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25 AND A.4.4-1/30) THEN R ELSE N/A
C24 IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A  C25 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  C26 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C30 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C22	IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A
C25 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  C26 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C44 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C45 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C46 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C23	IF (A.4.1-1/1 AND NOT A.4.4-1/5) THEN R ELSE N/A
C26 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  C27 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/14 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/14 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C40 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A	C24	IF (A.4.1-1/2 AND NOT A.4.4-1/5) THEN R ELSE N/A
C27 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C28 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-3/111) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/14 AND A.4.4-1/26) THEN R ELSE N/A  C38 IF (A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/14 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C44 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C45 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C46 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C47 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C48 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A	C25	IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A
C28 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C29 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35a IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C37a IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C38a IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C39a IF (A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/14 AND A.4.4-1/24) THEN R ELSE N/A  C39a IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/14 AND A.4.4-1/25) THEN R ELSE N/A  C39a IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39a IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C39a IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C40a IF (A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C41a IF (A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C43a IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C26	IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A
C29 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A  C30 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/14 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C44 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C45 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C46 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C47 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C48 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A	C27	IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A
C30 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/11) THEN R ELSE N/A  C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/11) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/11) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/11) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C28	IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A
C31 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A  C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C44 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C45 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C46 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C47 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A  C48 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C29	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A
C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/7 THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/12 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C30	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A
C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C31	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A
C33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A	C32	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A
C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A  C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A	C32a	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A
C34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A  C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/15) THEN R ELSE N/A	C33	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A
C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A  C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C33a	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A
C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A	C34	IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A
C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A  C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A
C38 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		
C39 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A  C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		
C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A  C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A  C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		
C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		
C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		
C43 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A		
1 CAA = 1E(AA11/2ANDAA11/AANDAA21/2ANDAA11/1E) THEN DELCEN/A		
	C44	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A
C45 IF (A.4.1-1/1 AND A.4.4-3/115) THEN R ELSE N/A		
C46 IF (A.4.1-1/2 AND A.4.4-3/115) THEN R ELSE N/A		
C47 IF (A.4.1-1/1 AND A.4.4-1/25 AND A.4.5-1/4) THEN R ELSE N/A		
C48 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22 AND A.4.5-1/5) THEN R ELSE N/A	C48	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22 AND A.4.5-1/5) THEN R ELSE N/A

# Annex A (normative): ICS proforma for E-UTRA User Equipment

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

## A.1 Guidance for completing the ICS proforma

## A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

### A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

#### Item column

The item column contains a number which identifies the item in the table.

#### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

#### Reference column

The reference column gives reference to the relevant 3GPP core specifications.

#### Release column

The release column indicates the earliest release from which the capability or option is relevant.

#### Comments column

This column is left blank for particular use by the reader of the present document.

#### References to items

For each possible item answer (answer in the support column) within the ICS proforma 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.4.1-1/2 is the reference to the answer of item 2 in table A.4.1-1.

## A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

## A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

	Date of the statement
A.2.2 UEUT name	User Equipment Under Test (UEUT) identification
Hardware co	
	offiguration:

E-mail address:

A.2.3	Product supplier
Name:	
Address:	
Telephone n	
Facsimile nu	mber:
E-mail addre	ess:
Additional in	nformation:
A.2.4 Name:	Client
Address:	
Telephone n	umber:
Facsimile nu	mber:

Additional information:
A.2.5 ICS contact person
Name:
Telephone number:
Facsimile number:
E-mail address:
Additional information:

## A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

# A.4 ICS proforma tables

Editor's Note: This clause is not completed

# A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	E-UTRA FDD	36.101	Rel-8	
2	E-UTRA TDD	36.101	Rel-8	
3	UTRA FDD	25.101	Rel-8	
4	UTRA TDD	25.102	Rel-8	
5	GSM	45.005	Rel-8	
6	cdma2000 HRPD	C.S0024-A	Rel-8	
7	cdma2000 1xRTT	C.S0002-A	Rel-8	

## A.4.2 UE Service Capabilities

Table A.4.2-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	LTE MBMS	36.101	Rel-9	
2	LTE CA	36.101	Rel-10	
3	UL-MIMO	36.306 subclause 4.3.4.6	Rel-10	
4	eDL-MIMO	36.306 subclause 4.3.4.7	Rel-10	
5	Enhanced Dual Layer TDD	36.306 subclause 4.3.4.5	Rel-9	

## A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

Item	Supported protocols	Ref.	Release	Comments
1	EPS Mobility Management	24.301, 5	Rel-8	
2	EPS Session Management	24.301, 6	Rel-8	
3	GPRS Mobility Management	23.060	R99	
4	Radio Resource Control	36.331	Rel-8	
5	Packet Data Convergence Protocol	36.323	Rel-8	
6	Radio Link Control	36.322	Rel-8	
7	Medium Access Control	36.321	Rel-8	
8	Physical Layer	36.201,	Rel-8	
		36.302		

**Table A.4.3-2: Special Conformance Testing Functions** 

Item	<b>Special Conformance Testing Functions</b>	Ref.	Release	Comments
1	UE test loop	36.509	Rel-8	
2	Max UE test loop UL RLC SDU size 65535	36.509	Rel-8	
	bits			

Table A.4.3-3: RF Baseline Implementation Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Release	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	Rel-8	FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	Rel-8	FDD Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	Rel-8	FDD Band 4
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	Rel-8	FDD Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	Rel-8	FDD Band 6
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	Rel-8	FDD Band 7
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	Rel-8	FDD Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	Rel-8	FDD Band 9
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 10
11	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	Rel-8	FDD Band 11
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	Rel-8	FDD Band 12
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	Rel-8	FDD Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	Rel-8	FDD Band 14
15	Reserved	36.101, 5.5	Rel-8	FDD Band 15
16	Reserved	36.101, 5.5	Rel-8	FDD Band16
17	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	Rel-8	FDD Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	Rel-9	FDD Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	Rel-9	FDD Band 19
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	Rel-9	FDD Band 20
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	Rel-9	FDD Band 21
22	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	Rel-10	FDD Band 22
23	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	Rel-10	FDD Band 23
24	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	Rel-10	FDD Band 24
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	Rel-10	FDD Band 25
26	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	Rel-11	FDD Band 26
27	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	Rel-11	FDD Band 27
28	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	Rel-11	FDD Band 28
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	Rel-12	FDD Band 31
33	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	Rel-8	TDD Band 33
34	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	Rel-8	TDD Band 34
35	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	Rel-8	TDD Band 35
36	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	Rel-8	TDD Band 36
37	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	Rel-8	TDD Band 37
	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	Rel-8	TDD Band 38
39	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	Rel-8	TDD Band 39
	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	Rel-8	TDD Band 40
41	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	Rel-10	TDD Band 41
42	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	Rel-10	TDD Band 42
43	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	Rel-10	TDD Band 43
44	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	Rel-11	TDD Band 44
	The values indicated in column "Poleage" are to be			

Note: The values indicated in column "Release" are to be understood as the specifications release version in which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 36.307 [16]

Table A.4.3-3a: RF Additional Baseline Implementation Capabilities

Item	RF Additional Baseline Implementation Capabilities	Ref.	Comments
1	Support of 1.4 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 1.4 MHz Bandwidth: 2, 3, 4, 5, 8, 12, 23, 25, 26, 27, 35, 36
2	Support of 3 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 3 MHz Bandwidth: 2, 3, 4, 5, 8, 12, 23, 25, 26, 27, 28, 35, 36, 44
3	Support of 5 MHz channel bandwidth	36.101, 5.6.1	All operating bands support 5 MHz Bandwidth
4	Support of 10 MHz channel bandwidth	36.101, 5.6.1	All operating bands support 10 MHz Bandwidth
5	Support of 15 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 15 MHz Bandwidth: 1, 2, 3, 4, 7, 9, 10, 18, 19, 20, 21, 22, 25, 26, 28, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44
6	Support of 20 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 20MHz Bandwidth: 1, 2, 3, 4, 7, 9, 10, 20, 22, 25, 28, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44

Table A.4.3-3b: Additional UE Power Class implementation Capabilities

Item	RF baseline UE Baseline implementation capability	Ref.	Comments
1	UE Power Class 1	36.101, 6.2.2	Applicable to Band 14
2	UE Power Class 3	36.101, 6.2.2	All applicable E-UTRA bands

Table A.4.3-4: PUSCH physical layer Categories

Item	PUSCH physical layer categories	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	Support for 64QAM in UL
6	Category 6	36.306, 4.1	Rel-10	
7	Category 7	36.306, 4.1	Rel-10	
8	Category 8	36.306, 4.1	Rel-10	Support for 64QAM in UL

Table A.4.3-5: PDSCH physical layer Categories

Item	PDSCH physical layer categories	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	
6	Category 6	36.306, 4.1	Rel-10	
7	Category 7	36.306, 4.1	Rel-10	
8	Category 8	36.306, 4.1	Rel-10	

## Table A.4.3-6: Supported Mixed MBSFN-unicast capabilities

Item	Supported Mixed MBSFN-unicast capabilities	Ref.	Release	Comments
1	Mixed MBSFN-unicast	36.211, 6.5	Rel-8	Support for MBSFN
				subframes: 1, 2, 3, 6, 7, 8

#### Table A.4.3-7: Additional capabilities

Item	Additional capabilities	Ref.	Release	Comments
1	Enhanced performance requirements type A for	36.101,	Rel-11	Support for Enhanced
	LTE	Clause 8		performance requirements
				type A

## A.4.4 Feature group indicators

In Table A.4.4-1, a 'VoLTE capable UE' corresponds to a UE that is capable of the "Voice domain preference for E-UTRAN" defined in TS 24.301 being set to "IMS PS voice only", "IMS PS voice preferred, CS voice as secondary" or "CS voice preferred, IMS PS voice as secondary" (Ref TS 25.331, clause B.1).

Table A.4.4-1: Feature group indicators 1-32

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the correspondin g release		Ref.	Mnemonic	Comments
	Support of - Intra-subframe frequency hopping for PUSCH scheduled by UL grant - DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) - Multi-user MIMO for PDSCH - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI			Rel-8	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 1 Set to true if supporting all functionalities in the feature group
	Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI			Rel-8	36.331, Annex B.1	pc_FeatrGrp_2	Corresponding to the Index of Indicator, the leftmost binary bit 2 Set to true if supporting all functionalities in the feature group

	Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN	- can only be set to 1 if the UE has set bit number 7 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_3	Corresponding to the Index of Indicator, the leftmost binary bit 3 Set to true if supporting all functionalities in the feature	
	Support of - 5bit RLC UM SN - 7bit PDCP SN	- can only be set to 1 if the UE has set bit number 7 to 1.	Yes, if UE supports VoLTE	Rel-9			group	
	Support of - Short DRX cycle	- can only be set to 1 if the UE has set bit number 5 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_4	Corresponding to the Index of Indicator, the leftmost binary bit 4 Set to true if supporting all functionalities in the feature group	
	Support of - Long DRX cycle - DRX command MAC control element			Rel-8	36.331, Annex B.1	pc_FeatrGrp_5	Corresponding to the Index of Indicator, the leftmost binary bit 5	
			Yes	Rel-9		no EootrOrn 6	Set to true if supporting all functionalities in the feature group	
	Support of Prioritized bit rate			Rel-8	B.1	pc_FeatrGrp_6	Corresponding to the Index of Indicator, the leftmost binary bit 6	
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group	
,	Support of - RLC UM	- can only be set to 0 if the UE does not		Rel-8	36.331, Annex B.1	pc_FeatrGrp_7	Corresponding to the Index of Indicator, the leftmost binary bit 7	
		support voice	Yes, if UE supports VoLTE	Rel-9			Set to true if supporting all functionalities in the feature group	
	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover	- can only be set to 1 if the UE has set bit		Rel-8	36.331, Annex B.1	pc_FeatrGrp_8	Corresponding to the Index of Indicator, the leftmost binary bit 8	
		number 22 to 1	Yes, if UE supports UTRA	Rel-9			Set to true if supporting all functionalities in the feature group	
	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_9	Corresponding to the Index of Indicator, the leftmost binary bit 9 Set to true if supporting all functionalities in the feature group	

0	Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change)			Rel-8	36.331, Annex B.1	pc_FeatrGrp_10	Corresponding to the Index of Indicator, the leftmost binary bit 10 Set to true if supporting all functionalities in the feature group
1	Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover	- can only be set to 1 if the UE has sets bit number 24 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_11	Corresponding to the Index of Indicator, the leftmost binary bit 11 Set to true if supporting all functionalities in the feature group
2	Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover	- can only be set to 1 if the UE has set bit number 26 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_12	Corresponding to the Index of Indicator, the leftmost binary bit 12 Set to true if supporting all functionalities in the feature group
3	Support of - Inter-frequency handover (within FDD or TDD)	- can only be set to 1 if the UE has set bit		Rel-8	36.331, Annex B.1	pc_FeatrGrp_13	Corresponding to the Index of Indicator, the leftmost binary bit 13
		number 25 to 1	Yes, unless UE only supports band 13	Rel-9			Set to true if supporting all functionalities in the feature group
4	Support of			Rel-8	36.331 Annex	pc_FeatrGrp_14	Corresponding to the Index
· 	<ul> <li>Measurement reporting event: Event A4 - Neighbour &gt; threshold</li> <li>Measurement reporting event: Event A5 - Serving &lt; threshold1 &amp; Neighbour &gt; threshold2</li> </ul>		Yes	Rel-9	B.1	ps sun o.p_14	of Indicator, the leftmost binary bit 14 Set to true if supporting all functionalities in the feature group
5	Support of - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or	- can only be set to 1 if the UE has set at		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15	Corresponding to the Index of Indicator, the leftmost binary bit 15

48

	only UTRAN TDD and has set bit number 22 to 1  - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively  - Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	least one of the bit number 22, 23, 24, 26 or 39 to 1. - even if the UE sets bits 41, it shall still set bit 15 to 1 if measurement reporting event B1 is tested for all RATs supported by UE	if UE supports only UTRAN FDD and does not support UTRAN TDD or GERAN or 1xRTT or HRPD	Rel-9			Set to true if supporting all functionalities in the feature group
6	Support of - non-ANR related intra-frequency periodical measurement reporting; - non-ANR related inter-frequency periodical measurement reporting, if the UE has set bit number 25 to 1; and - non-ANR related inter-RAT periodical measurement reporting for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively.			Rel-8	36.331, Annex B.1	pc_FeatrGrp_16	Corresponding to the Index of Indicator, the leftmost binary bit 16 Set to true if supporting all functionalities in the feature group
	NOTE: "non-ANR related periodical measurement reporting" corresponds only to periodical trigger type with purpose set to <i>reportStrongestCells</i> . Event triggered periodical reporting (i.e., event trigger type with <i>reportAmount</i> > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.		Yes	Rel-9			
7	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where <i>triggerType</i> is set	- can only be set to 1 if the UE has set bit		Rel-8	36.331, Annex B.1	pc_FeatrGrp_17	Corresponding to the Index of Indicator, the leftmost binary bit 17
	to periodical and purpose is set to reportStrongestCells - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	number 5 to 1.	Yes	Rel-9			Set to true if supporting all functionalities in the feature group
8	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set	- can only be set to 1 if the UE has set bit number 5 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_18	Corresponding to the Index of Indicator, the leftmost binary bit 18 Set to true if supporting all functionalities in the feature
	to periodical and purpose is set to reportCGI		supports band 13				group

9	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19	Corresponding to the Index of Indicator, the leftmost binary bit 19 Set to true if supporting all functionalities in the feature group
:0	If bit number 7 is set to '0': - SRB1 and SRB2 for DCCH + 8x AM DRB  If bit number 7 is set to '1': - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB  NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to '1', UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB	Yes	Rel-8	36.331, Annex B.1	pc_FeatrGrp_20	Corresponding to the Index of Indicator, the leftmost binary bit 20 Set to true if supporting all functionalities in the feature group
:1	Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1			Rel-8	36.331, Annex B.1	pc_FeatrGrp_21	Corresponding to the Index of Indicator, the leftmost binary bit 21 Set to true if supporting all functionalities in the feature group
2	Support of - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_22	Corresponding to the Index of Indicator, the leftmost binary bit 22

3	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		Yes, if UE supports UTRA	Rel-9 Rel-8	B.1	pc_FeatrGrp_23  pc_FeatrGrp_24	Set to true if supporting all functionalities in the feature group  Corresponding to the Index of Indicator, the leftmost binary bit 23  Set to true if supporting all functionalities in the feature group  Corresponding to the Index
	- 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		Yes, if UE supports enhanced 1xRTT CSFB	Rel-9	B.1		of Indicator, the leftmost binary bit 24 Set to true if supporting all functionalities in the feature group
:5	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_25	Corresponding to the Index of Indicator, the leftmost binary bit 25
	NOTE: The UE setting this bit to 1 and indicating support for FDD and TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is in FDD.		Yes, unless UE only supports band 13	Rel-9			Set to true if supporting all functionalities in the feature group
:6	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_26	Corresponding to the Index of Indicator, the leftmost binary bit 26
			Yes, if UE supports HRPD	Rel-9			Set to true if supporting all functionalities in the feature group
7	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1 and supports SR-VCC from EUTRA defined in TS 24.008	Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-9	36.331, Annex B.1	pc_FeatrGrp_27	Corresponding to the Index of Indicator, the leftmost binary bit 27 Set to true if supporting all functionalities in the feature group
.8	Support of - TTI bundling		Yes for FDD	Rel-9 Rel-10	36.331, Annex B.1	pc_FeatrGrp_28	Corresponding to the Index of Indicator, the leftmost binary bit 28 Set to true if supporting all functionalities in the feature group

9	Support of - Semi-Persistent Scheduling			36.331, Annex B.1	pc_FeatrGrp_29	Corresponding to the Index of Indicator, the leftmost binary bit 29 Set to true if supporting all functionalities in the feature group
i <mark>0</mark>	Support of - Handover between FDD and TDD	- can only be set to 1 if the UE has set bit number 13 to 1	Rel-8	36.331, Annex B.1	pc_FeatrGrp_30	Corresponding to the Index of Indicator, the leftmost binary bit 30 Set to true if supporting all functionalities in the feature group
1	Support of - Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending multiBandInfoList, disregarding in RRC_CONNECTED the related system information fields and understanding the EARFCN signalling for all bands, that overlap with the bands supported by the UE, and that are defined in the earliest version of TS 36.101 [42] that includes all UE supported bands.	- In this release of the protocol, this bit will never be mandated to be set to 1 - This FGI bit concerns an optional release independent feature (as it was difficult to introduce this from REL-8 when using regular UE capability signalling)	Rel-8	36.331, Annex B.1	pc_FeatrGrp_31	Corresponding to the Index of Indicator, the leftmost binary bit 31 Set to true if supporting all functionalities in the feature group
2	Undefined		Rel-8	36.331, Annex B.1	pc_FeatrGrp_32	Corresponding to the Index of Indicator, the leftmost binary bit 32 Set to true if supporting all functionalities in the feature group

Table A.4.4-2: Feature group indicators 33-64

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
33	Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 22 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_33	Corresponding to the Index of Indicator, the leftmost binary bit 33 Set to true if supporting all functionalities in the feature group
34	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 23 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_34	Corresponding to the Index of Indicator, the leftmost binary bit 34 Set to true if supporting all functionalities in the feature group
35	Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 24 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_35	Corresponding to the Index of Indicator, the leftmost binary bit 35 Set to true if supporting all functionalities in the feature group
36	Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_36	Corresponding to the Index of Indicator, the leftmost binary bit 36 Set to true if supporting all functionalities in the feature group
37	Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_37	Corresponding to the Index of Indicator, the leftmost binary bit 37
38	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- can only be set to 1 if the UE has set bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_38	Corresponding to the Index of Indicator, the leftmost binary bit 38

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
39	-UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD			Rel-9	36.331, Annex B.1	pc_FeatrGrp_39	Corresponding to the Index of Indicator, the leftmost binary bit 39
40	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- related to SR- VCC - can only be set to 1 if the UE has set bit number 38 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_40	Corresponding to the Index of Indicator, the leftmost binary bit 40
41	Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD, if the UE supports UTRAN FDD and has set bit number 22 to 1		Yes for FDD, unless UE has set bit number 15 to 1	Rel-9	36.331, Annex B.1	pc_FeatrGrp_41	Corresponding to the Index of Indicator, the leftmost binary bit 41
42	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 42
43	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 43
44	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 44
45	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 45
46	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 46
47	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 47
48	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 48
49	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 49
50	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 50

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
51	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 51
52	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 52
53	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 53
54	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 54
55	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 55
56	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 56
57	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 57
58	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 58
59	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 59
60	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 60
61	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 61
62	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 62
63	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 63
64	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 64

Table A.4.4-3: Feature group indicators 101-132

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release		Ref.	Mnemonic	Comments
101	- DMRS with OCC (orthogonal cover code) and SGH (sequence group hopping) disabling	- if the UE supports two or more layers for spatial multiplexing in UL, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_101	Corresponding to the Index of Indicator, the leftmost binary bit 101 Set to true if supporting all functionalities in the feature group
102	- Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports)  NOTE: X = number of supported layers on given band			Rel-10	36.331, Annex C.1	pc_FeatrGrp_102	Corresponding to the Index of Indicator, the leftmost binary bit 102 Set to true if supporting all functionalities in the feature group
103	- PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured	- for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_103	Corresponding to the Index of Indicator, the leftmost binary bit 103 Set to true if supporting all functionalities in the feature group
104	- PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured	- if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. - for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_104	Corresponding to the Index of Indicator, the leftmost binary bit 104 Set to true if supporting all functionalities in the feature group
105	- Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_105	Corresponding to the Index of Indicator, the leftmost binary bit 105 Set to true if supporting all functionalities in the feature group
106	- Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1  – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported') and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_106	Corresponding to the Index of Indicator, the leftmost binary bit 106 Set to true if supporting all functionalities in the feature group

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
107	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_107	Corresponding to the Index of Indicator, the leftmost binary bit 107 Set to true if supporting all functionalities in the feature group
108	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported') and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_108	Corresponding to the Index of Indicator, the leftmost binary bit 108 Set to true if supporting all functionalities in the feature group
109	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_109	Corresponding to the Index of Indicator, the leftmost binary bit 109 Set to true if supporting all functionalities in the feature group
110	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_110	Corresponding to the Index of Indicator, the leftmost binary bit 110 Set to true if supporting all functionalities in the feature group
111	- Measurement reporting trigger Event A6	this bit can be set to 1 only if the UE supports carrier aggregation.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_111	Corresponding to the Index of Indicator, the leftmost binary bit 111 Set to true if supporting all functionalities in the feature group
112	- SCell addition within the Handover to EUTRA procedure	- this bit can be set to 1 only if the UE supports carrier aggregation and the Handover to EUTRA procedure.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_112	Corresponding to the Index of Indicator, the leftmost binary bit 112 Set to true if supporting all functionalities in the feature group

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding	Release	Ref.	Mnemonic	Comments
113	- Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells	- this bit can be set to 1 only if the UE supports carrier aggregation in UL.	release	Rel-10	36.331, Annex C.1	pc_FeatrGrp_113	Corresponding to the Index of Indicator, the leftmost binary bit 113
	NOTE: X = number of supported component carriers in a given band combination						Set to true if supporting all functionalities in the feature group
114	- Reporting of both UTRA CPICH RSCP and Ec/N0 in a Measurement Report	- this bit can be set to 1 only if index 22 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_114	Corresponding to the Index of Indicator, the leftmost binary bit 114 Set to true if supporting all functionalities in the feature group
115	- time domain ICIC RLM/RRM measurement subframe restriction for the serving cell - time domain ICIC RRM measurement subframe restriction for neighbour cells - time domain ICIC CSI measurement subframe restriction			Rel-10	36.331, Annex C.1	pc_FeatrGrp_115	Corresponding to the Index of Indicator, the leftmost binary bit 115 Set to true if supporting all functionalities in the feature group
116	- Relative transmit phase continuity for spatial multiplexing in UL	<ul> <li>this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in UL.</li> </ul>		Rel-10	36.331, Annex C.1	pc_FeatrGrp_116	Corresponding to the Index of Indicator, the leftmost binary bit 116 Set to true if supporting all functionalities in the feature group
117	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 117
118	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 118
119	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 119
120	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 120
121	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 121
122	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 122
123	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 123
124	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 124

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
125	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 125
126	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 126
127	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 127
128	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 128
129	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 129
130	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 130
131	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 131
132	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 132

#### A.4.5 Additional information

Table A.4.5-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of CSG	36.331 Annex B.2	Rel-8	pc_CSG_list	
	Support of intra-frequency SI acquisition for HO	36.306 4.3.11.1	Rel-9	pc_intraFreqSI- AcquisitionForHO	
	Support of inter-frequency SI acquisition for HO	36.306 4.3.11.2	Rel-9	pc_interFreqSI- AcquisitionForHO	
4	Not support of inter-frequency need for gaps	36.306 4.3.6.1	Rel-8	pc_interFreqNeedF orGaps	
	Not support of inter-RAT need for gaps	36.306 4.3.6.1		pc_interRAT- NeedForGaps	

### A.4.6 CA Physical Layer Baseline Implementation Capabilities

# A.4.6.1 Intra-band contiguous CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.1-1: Downlink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.1-3)

Item	Bandwidth Class	Ref.	Release	Comments
1	DL Intra-band contiguous CA BW Class B	36.101, 5.6A 36.331, 6.3.6		Not used in any valid CA configurations in TS 36.101 yet
2	DL Intra-band contiguous CA BW Class C	36.101, 5.6A 36.331, 6.3.6	Rel-10	

Table A.4.6.1-2: Uplink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.1-3)

Item	Bandwidth class	Ref.	Release	Comments
1	UL Intra-band contiguous CA BW Class B	36.101, 5.6A 36.331, 6.3.6		Not used in any valid CA configurations in TS 36.101 yet
2	UL Intra-band contiguous CA BW Class C	36.101, 5.6A 36.331, 6.3.6	Rel-10	,

Table A.4.6.1-3: Supported CA configurations for Intra-band contiguous CA

	Item / CA Band (Note 1)	Ref.	Release	Supported DL CA Bandwidth Class(es) (Note 2)	Supported UL CA Bandwidth Class(es) (Note 2)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1		36.101, 5.6A 36.331, 6.3.6	Rel-10			
CA_7		36.101, 5.6A 36.331, 6.3.6	Rel-11			
CA_38		36.101, 5.6A 36.331, 6.3.6	Rel-11			
CA_40		36.101, 5.6A 36.331, 6.3.6	Rel-10			
CA_41	Notation used for intra-han	36.101, 5.6A 36.331, 6.3.6	Rel-11			

Note 1: Notation used for intra-band CA bands is according to TS 36.101 clause 5.6A.1 (e.g. 'CA\_1' indicates CA configuration on E-UTRA band 1).

Note 2: The capabilities can be supported on a single or multiple band(s). The UE supplier shall indicate in the column "Supported DL CA Bandwidth Class(es)" and column "Supported UL CA Bandwidth Class(es)" the UE supported CA Bandwidth Class(es) in downlink and uplink respectively using CA Bandwidth Class identifiers as per TS 36.101 Table 5.6A-1.

For Rel-10 and Rel-11 CA bands then the only valid choice for Intra-band contiguous CA is 'C' or to leave the entry as blank (nothing stated), where blank means that CA is not supported. E.g. for a UE supporting CA Bandwidth Class C for both uplink and downlink then 'C' is stated in both columns.

Note 3: For some CA Band Combinations, multiple Bandwidth Combination Sets are defined in TS 36.101, table 5.6A.1-2. The UE supplier shall indicate the supported set(s) in column "Supported Bandwidth Combination Set".

# A.4.6.2 Intra-band non-contiguous CA Physical Layer Baseline Implementation Capabilities

**FFS** 

#### A.4.6.3 Inter-band CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.3-1: Downlink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.6.3-3)

Item	Bandwidth Class Combination	Ref.	Release	Comments
1	DL Inter-band CA BW Class	36.101, 5.6A	Rel-10	
	Combination A-A	36.331, 6.3.6		

Table A.4.6.3-2: Uplink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.6.3-3)

Item	Bandwidth Class Combination	Ref.	Release	Comments
1	UL Inter-band CA BW Class	36.101, 5.6A	FFS	Not used in any
	Combination A-A	36.331, 6.3.6		valid CA
				configurations in
				TS 36.101 yet

Table A.4.6.3-3: Supported CA configurations for Inter-band CA

Item / CA Band Combination (Note 1)	Ref.	Release	Supported DL CA Bandwidth Class combination(s) (Note 2)	Supported UL CA Bandwidth Class combinations(s) (Note 2)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1-5	36.101, 5.6A	Rel-10		N/A	
	36.331, 6.3.6				
CA_1-18	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_1-19	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_1-21	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_2-17	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_2-29	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-5	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-7	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-8	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-20	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-5	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-7	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4_12	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-13	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-17	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-29	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_5-12	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_5-17	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_7-20	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_8-20	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_11-18	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				

Note 1: Notation used for inter-band CA configurations is according to TS 36.101 clause 5.6A.2 (e.g. 'CA\_1\_5' indicates CA configuration on E-UTRA bands 1 and 5).

Note 2: The capabilities can be supported on a single or multiple band(s). The UE supplier shall indicate in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" the UE supported CA Bandwidth Class combination(s) in downlink and uplink respectively using combination of CA Bandwidth Class identifiers as per TS 36.101 Table 5.6A-1 in the same order as the bands are indicated in the CA Configuration separated by a '-'. For Rel-10 and Rel-11 CA band combinations then the only valid choice for Inter-band CA in downlink is 'A-A' or to leave the entry as blank (nothing stated), where blank means that CA is not supported.

For Rel-10 and Rel-11 CA band combinations then uplink CA is not applicable and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'. E.g. if UE supports Rel-10 CA band combination CA\_1-5 and the UE supporting CA Bandwidth Class A for both bands in downlink then 'A-A' is stated in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'.

Note 3: For some CA Band Combinations, multiple Bandwidth Combination Sets are defined in TS 36.101, table 5.6A.1-2. The UE supplier shall indicate the supported set(s) in column "Supported Bandwidth Combination Set".

Note 1: Notation used for inter-band CA configurations is according to TS 36.101 clause 5.6A.2 (e.g. 'CA 1 5' indicates CA configuration on E-UTRA bands 1 and 5).

Note 2: The capabilities can be supported on a single or multiple band(s). The UE supplier shall indicate in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s) in downlink and uplink respectively using combination of CA Bandwidth Class identifiers as per TS 36.101 Table 5.6A-1 in the same order as the bands are indicated in the CA Configuration separated by a '-'. For Rel-10 and Rel-11 CA band combinations then the only valid choice for Inter-band CA in downlink is 'A-A' or to leave the entry as blank (nothing stated), where blank means that CA is not supported.

For Rel-10 and Rel-11 CA band combinations then uplink CA is not applicable and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'. E.g. if UE supports Rel-10 CA band combination CA\_1-5 and the UE supporting CA Bandwidth Class A for both bands in downlink then 'A-A' is stated in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'.

# Annex B (informative): Change history

Skeleton proposed for RANS#38 Malaga   0.0.1   0.1.0	Date	TSG #	TSG Doc.	CR	Rev		Old	New
Editorial update and alignment with \$8.623-2	2008-03					Skeleton proposed for RAN5#38 Malaga		0.0.1
T. Cincluded in 36.521-1 and 36.521-3 included   0.2.0	2008-06						0.0.1	0.1.0
Some Conditions for TC selections introduce								
Dupdated after RANS#40:   Editiorial update in regard to changing spec names, etc.   FDD and TDD split (R5-083839)   PRM TC numbers aligned with 36.521-3 v030   PRM TC numbers aligned voice in 10 provided test apply to any E-UTRA device into "R" - recommended   Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040   PRM TC numbers aligned to the visual voice   PRM TC numbers ali								
Editorial update in regard to changing spec names, etc.   FDD and TDD spil (RR-088393)   RRM TC numbers aligned with 36.521-3 v030   0.2.0   0.3.0	2008-08						011	020
FDD and TDD split (R5-083839)	2000-00						0.1.1	0.2.0
RANH TC numbers aligned with 36.521-3 v030								
- Table split in different clauses for Conformance and RRM test cases es - Extension of applicability tables to include Additional information column - Change of applicability 10 Tos that apply to any E-UTRA device into *R* - recommended - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Updated After RANS#41 (R5-055360): - Renamed 8.1.1, added new 81.2, - Added ne						- RRM TC numbers aligned with 36.521-3 v030		
test cases   Extension of applicability tables to include Additional information column   - Change of applicability of TCs that apply to any E-UTRA device into "R" - recommended   - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040   - Some editorial updates   Update After RANS#41 (R5-055360):	2008-10						0.2.0	0.3.0
Extension of applicability tables to include Additional information column   Change of applicability of TCs that apply to any E-UTRA device into P* - recommended   - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040   - Some editorial updates   Update After RANS#41 (RS-055360):								
Information column								
Change of applicability of TCs that apply to any E-UTRA device into Pt - recommended								
device into 'R' - recommended								
Vo40						device into "R" - recommended		
Some editorial updates						· •		
Update After RANS#41 (R5-055360):   0.3.0   2.0.0								
Renamed 8.1.1, added new %.1.2,   Added new Tcs to RRM section Measurement	2009 11				-	- Some editorial updates	020	200
Added new TCs to RRM section Measurement   Performance Requirements   Performance Reguirements   Performance Requirements   Performance Reguirements   Per	2006-11						0.3.0	2.0.0
Performance Requirements   Added Table A.4.3-2 with reference to test loop functions in 36.509   Some editorial changes   Normative References updated   Change RRM TC titles to reflect their applicability to FDD only								
36.509   Some editorial changes   Some editorial changes   Normative References updated   Change RRM TC titles to reflect their applicability to FDD only								
Some editorial changes								
Normative Referencés updated								
Change RRM TC titles to reflect their applicability to FDD only								
Only								
8.0.0   8.0.						•		
Editorial corrections.   8.0.0   8.0.1	2008-12	RAN#42	RP-080970			Approval of version 2.0.0 at RAN#42, then put to version	2.0.0	8.0.0
2009-05   RAN#44   RP-090448   0001   CR to 36.521-2: Applicability changes and additions for RRM   8.0.1   8.1.0   2009-05   RAN#44   RP-090448   0002   LTE-RF: Applicability for Output Power Dynamics test cases   8.0.1   8.1.0   8.2.0   2009-09   RAN#45   R5-094035   0003   Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests   2009-09   RAN#45   R5-094572   0004   Applicability for Output Power Dynamics test cases   8.1.0   8.2.0   2009-09   RAN#45   R5-094710   0005   Resubmission-Correction CR to 36.521-2: Applicability of Course Dynamics test cases   8.1.0   8.2.0   2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability for SON   8.1.0   8.2.0   2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability changes to RF   R5-094768   0007   Correction CR to 36.521-2: Applicability changes to RF   8.1.0   8.2.0   2009-12   RAN#46   R5-095519   0008   Correction CR to 36.521-2: Applicability changes to Update   R5-095778   0009   Update of RRM Conformance test applicability changes to Update   R5-095778   0009   Update of RRM Conformance test applicability of RLM in DRX test cases   2009-12   RAN#46   R5-095841   0010   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2010-03   RAN#47   R5-100358   0011   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2010-03   RAN#47   R5-100561   0012   CR to 36.521-2: Update baseline implementation capabilities   8.3.0   8.4.0   2010-03   RAN#47   R5-100872   0013   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   2010-03   RAN#48   R5-103147   0014   Additing band 20, 800MHZ in EU to TS36.521-2   9.0.0   9.1.0   2010-06   RAN#48   R5-104264   0015   RAN#49   R5-104264   0016   Addition of applicability for Demodulation test cases and UE   9.1.0   9.2.0   2010-09   RAN#49   R5-104264   0017   Update of Applicability for Update to add-remove TCs applicability   9.1.0   9.2.0   2010-09   RAN#49   R5-104264   0								
test cases								
2009-05   RAN#44   RP-090448   0002   LTE-RF: Applicability for Output Power Dynamics test cases   8.0.1   8.1.0   2009-09   RAN#45   R5-094035   0003   Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests   2009-09   RAN#45   R5-094572   0004   Applicability for Output Power Dynamics test cases   8.1.0   8.2.0   2009-09   RAN#45   R5-094710   0005   Resubmission-Correction CR to 36.521-2: Applicability   8.1.0   8.2.0   2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability for SON   8.1.0   8.2.0   2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability for SON   8.1.0   8.2.0   2009-09   RAN#45   R5-094999   0007   Correction CR to 36.521-2: Applicability changes to RF   PDSCH Demodulation tests   PDSCH Demodulation RAN5#44   R5-095778   0009   Update of RRM Conformance test applicability changes to update   the Demodulation of PDSCH (FDD) tests based on the CR   merge results from RAN5#44   R5-095841   0010   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2009-12   RAN#46   R5-095841   0010   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2010-03   RAN#47   R5-100358   0011   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2010-03   RAN#47   R5-100561   0012   CR to 36.521-2: Departmentation capabilities   8.3.0   8.4.0   2010-03   RAN#47   R5-100872   0013   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   2010-03   RAN#47   R5-100872   0013   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   2010-06   RAN#48   R5-103147   0014   Adding band 20, 800MHz in EU to TS36.521-2   9.0.0   9.1.0   9	2009-05	RAN#44	RP-090448	0001			8.0.1	8.1.0
2009-09   RAN#45   R5-094035   0003   Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests   R5-094572   0004   Applicability for Output Power Dynamics test cases   8.1.0   8.2.0   2009-09   RAN#45   R5-094710   0005   Resubmission-Correction CR to 36.521-2: Applicability   8.1.0   8.2.0   2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability for SON   8.1.0   8.2.0   2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability for SON   8.1.0   8.2.0   2009-09   RAN#45   R5-094999   0007   Correction CR to 36.521-2: Applicability changes to RF   PDSCH Demodulation tests   PDSCH Demodulation tests   PDSCH Demodulation tests   PDSCH Demodulation of PDSCH (FDD) tests based on the CR   merge results from RAN5#44   R5-095778   0009   Update of RRM Conformance test applicability for RLM in   DRX test cases   DRX test cases   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2009-12   RAN#46   R5-095841   0010   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0   2010-03   RAN#47   R5-100358   0011   CR to 36.521-2: PDID Intra Frequency Cell Search with DRX   When L3 filtering is used   UTRAN FDD - FDD Intra Frequency Cell Search with DRX   When L3 filtering is used   CR to 36.521-2: Update baseline implementation capabilities   8.3.0   8.4.0   2010-03   RAN#47   R5-100872   0013   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   2010-03   RAN#47   R5-103757   0015   Introduction of feature group indicator in applicability for   RRM test cases   2010-09   RAN#49   R5-104264   0017   CR to 36.521-2   CR to 36	2000-05	DAN#44	PP-000448	0002			8 O 1	810
Introduce additional RRM tests   Applicability for Output Power Dynamics test cases   8.1.0   8.2.0					_	Correction CR to 36 521-2: Applicability changes to		
RAN#45				0000			01110	0.2.0
Changes to introduce additional RRM tests   Consequence   Changes to introduce additional RRM tests   Consequence   Consequenc	2009-09	RAN#45	R5-094572	0004	-	Applicability for Output Power Dynamics test cases	8.1.0	8.2.0
2009-09   RAN#45   R5-094768   0006   Update of RRM Conformance test applicability for SON   8.1.0   8.2.0	2009-09	RAN#45	R5-094710	0005	-		8.1.0	8.2.0
2009-09	2000 00	D 4 N 1 // 4 E	DE 00.4700	0000			0.4.0	0.00
PDSCH Demodulation tests					-			
RAN#46   R5-095519   0008   Correction CR to 36.521-2: Applicability changes to update the Demodulation of PDSCH (FDD) tests based on the CR merge results from RAN5#44   Update of RRM Conformance test applicability for RLM in DRX test cases   2009-12   RAN#46   R5-095841   0010   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.0	2009-09	KAN#45	R5-094999	0007	-		8.1.0	8.2.0
the Demodulation of PDSCH (FDD) tests based on the CR merge results from RAN5#44  2009-12 RAN#46 R5-095778 0009 Update of RRM Conformance test applicability for RLM in DRX test cases  2009-12 RAN#46 R5-095841 0010 CR to 36.521-2: Applicability additions for new RRM (FDD) 8.2.0 8.3.0  2010-03 RAN#47 R5-100358 0011 CR to 36.521-2 Rel-8 Introduction of Applicability for E-UTRAN FDD - FDD Intra Frequency Cell Search with DRX when L3 filtering is used  2010-03 RAN#47 R5-100561 0012 CR to 36.521-2: Update baseline implementation capabilities 8.3.0 8.4.0 with extended LTE1500 operating bands  2010-03 RAN#47 R5-100872 0013 CSI: Following up corrections to tests titles and RI clause structure  2010-03 RAN#47 Moved to v9.0.0 with no change 8.4.0 9.0.0 2010-06 RAN#48 R5-103147 0014 Adding band 20, 800MHZ in EU to TS36.521-2 9.0.0 9.1.0 2010-08 RAN#48 R5-104246 0017 RRM test cases  2010-09 RAN#49 R5-104264 0018 Addition of applicability for Demodulation test cases and UE implementation Types for UTRA TDD  2010-09 RAN#49 R5-104840 0020 Jeptate of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD  2010-09 RAN#49 R5-104840 0020 Jeptate of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD  2010-09 RAN#49 R5-104840 0020 Jeptate of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD	2009-12	RAN#46	R5-095519	0008			820	830
merge results from RAN5#44   2009-12   RAN#46   R5-095778   0009   Update of RRM Conformance test applicability for RLM in DRX test cases   CR to 36.521-2: Applicability additions for new RRM (FDD)   8.2.0   8.3.	2000 12	10	110 000010	0000			0.2.0	0.0.0
DRX test cases						merge results from RAN5#44		
2009-12   RAN#46   R5-095841   0010   -	2009-12	RAN#46	R5-095778	0009			8.2.0	8.3.0
tests   CR to 36.521-2 Rel-8 Introduction of Applicability for E-UTRAN FDD - FDD Intra Frequency Cell Search with DRX when L3 filtering is used   CR to 36.521-2 Update baseline implementation capabilities   8.3.0   8.4.0	0000.40	DANI#40	DE 005044	0040			0.0.0	0.00
2010-03   RAN#47   R5-100358   0011   -     CR to 36.521-2 Rel-8 Introduction of Applicability for E-   UTRAN FDD - FDD Intra Frequency Cell Search with DRX   when L3 filtering is used   CR to 36.521-2: Update baseline implementation capabilities   8.3.0   8.4.0   with extended LTE1500 operating bands   2010-03   RAN#47   R5-100872   0013   -   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   structure   2010-03   RAN#47   -   -     Moved to v9.0.0 with no change   8.4.0   9.0.0   2010-06   RAN#48   R5-103147   0014   -   Adding band 20, 800MHZ in EU to TS36.521-2   9.0.0   9.1.0   2010-09   RAN#49   R5-104246   0017   -   CR to 36.521-2 on Correction to cell search   9.1.0   9.2.0   2010-09   RAN#49   R5-104264   0018   -   Addition of applicability for new RRM test cases   9.1.0   9.2.0   2010-09   RAN#49   R5-104372   0019   -     Update of Applicability for Demodulation test cases and UE   9.1.0   9.2.0   2010-09   RAN#49   R5-104840   0020   -   36521-2 General update to add-remove TCs applicability   9.1.0   9.2.0	2009-12	RAN#46	R5-095841	0010	-	• • • • • • • • • • • • • • • • • • • •	8.2.0	8.3.0
UTRAN FDD - FDD Intra Frequency Cell Search with DRX when L3 filtering is used	2010-03	RAN#47	R5-100358	0011	-		830	840
When L3 filtering is used   CR to 36.521-2: Update baseline implementation capabilities   8.3.0   8.4.0   with extended LTE1500 operating bands   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   structure   CSI: Following up corrections to tests titles and RI clause   8.3.0   8.4.0   structure   CSI: Following up corrections to tests titles and RI clause   CSI: Following up corrections to tests titles and RI clause   8.4.0   9.0.0   clause   CSI: Following up corrections to tests titles and RI clause   CSI: Following up corrections to tests titles and RI clause   R.4.0   9.0.0   clause   CSI: Following up corrections to tests titles and RI clause   R.4.0   9.0.0   clause   CSI: Following up corrections to tests titles and RI clause   R.4.0   9.0.0   elementation   R.4.0   eleme							0.0.0	00
with extended LTE1500 operating bands   2010-03   RAN#47   R5-100872   0013   - CSI: Following up corrections to tests titles and RI clause structure   2010-03   RAN#47   -   -   Moved to v9.0.0 with no change   8.4.0   9.0.0   9.1.0   2010-06   RAN#48   R5-103147   0014   - Adding band 20, 800MHZ in EU to TS36.521-2   9.0.0   9.1						when L3 filtering is used		
2010-03         RAN#47         R5-100872         0013         -         CSI: Following up corrections to tests titles and RI clause structure         8.3.0         8.4.0           2010-03         RAN#47         -         -         -         Moved to v9.0.0 with no change         8.4.0         9.0.0           2010-06         RAN#48         R5-103147         0014         -         Adding band 20, 800MHZ in EU to TS36.521-2         9.0.0         9.1.0           2010-06         RAN#48         R5-103757         0015         -         Introduction of feature group indicator in applicability for RRM test cases         9.0.0         9.1.0           2010-09         RAN#49         R5-104246         0017         -         CR to 36.521-2 on Correction to cell search         9.1.0         9.2.0           2010-09         RAN#49         R5-104264         0018         -         Addition of applicability for new RRM test cases         9.1.0         9.2.0           2010-09         RAN#49         R5-104372         0019         -         Update of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD         9.2.0           2010-09         RAN#49         R5-104840         0020         -         36521-2 General update to add-remove TCs applicability         9.1.0         9.2.0	2010-03	RAN#47	R5-100561	0012	-		8.3.0	8.4.0
Structure   Structure   Structure   Structure   Structure   2010-03   RAN#47   -	2212.22	5 4 4 1 1 1 1 -	D= 1000=0	2212				
2010-03         RAN#47         -         -         -         Moved to v9.0.0 with no change         8.4.0         9.0.0           2010-06         RAN#48         R5-103147         0014         -         Adding band 20, 800MHZ in EU to TS36.521-2         9.0.0         9.1.0           2010-06         RAN#48         R5-103757         0015         -         Introduction of feature group indicator in applicability for RRM test cases         9.0.0         9.1.0           2010-09         RAN#49         R5-104246         0017         -         CR to 36.521-2 on Correction to cell search         9.1.0         9.2.0           2010-09         RAN#49         R5-104264         0018         -         Addition of applicability for new RRM test cases         9.1.0         9.2.0           2010-09         RAN#49         R5-104372         0019         -         Update of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD         9.2.0           2010-09         RAN#49         R5-104840         0020         -         36521-2 General update to add-remove TCs applicability         9.1.0         9.2.0	2010-03	RAN#47	R5-100872	0013	-		8.3.0	8.4.0
2010-06         RAN#48         R5-103147         0014         -         Adding band 20, 800MHZ in EU to TS36.521-2         9.0.0         9.1.0           2010-06         RAN#48         R5-103757         0015         -         Introduction of feature group indicator in applicability for RRM test cases         9.0.0         9.1.0           2010-09         RAN#49         R5-104246         0017         -         CR to 36.521-2 on Correction to cell search         9.1.0         9.2.0           2010-09         RAN#49         R5-104264         0018         -         Addition of applicability for new RRM test cases         9.1.0         9.2.0           2010-09         RAN#49         R5-104372         0019         -         Update of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD         9.2.0           2010-09         RAN#49         R5-104840         0020         -         36521-2 General update to add-remove TCs applicability         9.1.0         9.2.0	2010-03	D Δ N # 4 7	1_	1_	_		840	9.0.0
2010-06         RAN#48         R5-103757         0015         -         Introduction of feature group indicator in applicability for RRM test cases         9.0.0         9.1.0           2010-09         RAN#49         R5-104246         0017         -         CR to 36.521-2 on Correction to cell search         9.1.0         9.2.0           2010-09         RAN#49         R5-104264         0018         -         Addition of applicability for new RRM test cases         9.1.0         9.2.0           2010-09         RAN#49         R5-104372         0019         -         Update of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD         9.2.0           2010-09         RAN#49         R5-104840         0020         -         36521-2 General update to add-remove TCs applicability         9.1.0         9.2.0			R5-103147	0014	-			
RRM test cases					-			
2010-09         RAN#49         R5-104264         0018         -         Addition of applicability for new RRM test cases         9.1.0         9.2.0           2010-09         RAN#49         R5-104372         0019         -         Update of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD         9.1.0         9.2.0           2010-09         RAN#49         R5-104840         0020         -         36521-2 General update to add-remove TCs applicability         9.1.0         9.2.0				<u></u>		RRM test cases		
2010-09   RAN#49   R5-104372   0019   -   Update of Applicability for Demodulation test cases and UE   9.1.0   9.2.0					-			
	2010-09	RAN#49	R5-104264	0018	[-	Addition of applicability for new RRM test cases	9.1.0	9.2.0
	2040.22	DANI#40	DE 404070	0040	<b> </b>	Undete of Applicability for Dance dideffer test seems 1995	0.4.0	0.00
2010-09 RAN#49 R5-104840 0020 - 36521-2 General update to add-remove TCs applicability 9.1.0 9.2.0	2010-09	KAN#49	K5-1043/2	0019	[-		9.1.0	9.2.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2010-09	RAN#49	R5-104840	0020	<del> </del>		9.1 0	9.20
	201000		1.0 10-10-10	0020			5. 1.0	5.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-09	RAN#49	R5-105056	0021	-	Applicability of a new Rel-9 downlink sustained data rate	9.1.0	9.2.0
2010-12	RAN#50	R5-106118	0022	-	performance test cases CR to 36.521-2: Update baseline implementation capabilities	9.2.0	9.3.0
2010 12	10 11 11/00	110 100110	0022		for EUTRA TDD LTE band 41	0.2.0	0.0.0
2011-03	RAN#51	R5-110536	0023	-	Defining new bands 42 and 43 (3500MHz)	9.3.0	9.4.0
2011-03	RAN#51	R5-110955	0024	-	CR to 36.521-2: General update to add, remove, and correct	9.3.0	9.4.0
2011-06	RAN#52	R5-112131	0025	<u> </u>	applicability of RRM TCs Correction to Band 12 frequency range in 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112212	0025	-	Adding Band 24 to TS 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112378	0027	-	Update of FGI bit definitions for rel-9	9.4.0	9.5.0
2011-06	RAN#52	R5-112821	0028	-	Add release applicability for spatial multiplexing test cases	9.4.0	9.5.0
2011-06	RAN#52	R5-112857	0029	-	Addition of applicability for new RRM test cases 4.3.4.3 and	9.4.0	9.5.0
2011-06	RAN#52	R5-112865	0030	-	8.4.3 Addition of applicability for new MBMS test cases 10.1 and	9.4.0	9.5.0
2011-09	RAN#53	R5-113306	0031	-	10.2 Adding band 25 to TS36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-113625	0033	_	Introduction of applicability of Rel-9 Scenarios	9.5.0	9.6.0
2011-09	RAN#53	110 110020	0000		Introduction of applicability of PDSCH performance tests for	9.5.0	9.6.0
		R5-113626	0034	-	low UE categories		
2011-09	RAN#53	R5-114025	0035	-	Test Cases 6.2.3 and 6.2.4 Applicability Clarification	9.5.0	9.6.0
2011-09	RAN#53	R5-114070	0036	_	Update baseline implementation capabilities for FDD LTE Band 23 in 36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-114074	0037	-	Applicability for new R9 RRM test cases	9.5.0	9.6.0
2011-09	RAN#53	R5-114096	0038	-	Missing FGIs in RRM Test Case Applicabilities in 36.521-2	9.5.0	9.6.0
2011-12	RAN#54	R5-115128	0039	-	Correction the content of A.4.4-1_16 in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115134	0040	-	Correction to the test case condition of C12 in 3GPP TS 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115186	0041	-	Adding band 22 (3500MHz FDD) to 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115785	0042	-	Requirement change in UE spurious emissions for Band 7 and 38 co-existence (Rel-8 only)	9.6.0	9.7.0
2011-12	RAN#54	R5-115422	0043	-	Update of FGI bit table in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115813	0044	-	RF: Update of the applicability list	9.6.0	9.7.0
2011-12	RAN#54	-	-	-	Moved to Rel-10 with no change	9.7.0	10.0.0
2012-03	RAN#55	R5-120340	0046	-	Addition of FGI bit 16 into test cases 9.1.x.x and 9.2.x.x	10.0.0	10.1.0
2012-03	RAN#55	R5-120534	0047	-	Introduction to Applicability for RSRQ for E-UTRA Carrier Aggregation		10.1.0
2012-03	RAN#55	R5-120596	0048	-	Updates to applicability for newly introduced CA feature chapter8 test cases in 36.521-2		10.1.0
2012-03	RAN#55	R5-120811	0049	-	Correction to FGI bits in test case 8.5.2		10.1.0
2012-03	RAN#55	R5-120812	0050	-	Addition of FGI bit 15 into test cases configuring event 1B		10.1.0
2012-03	RAN#55 RAN#55	R5-120832 R5-120836	0051 0052	-	Update of FGI bit table in TS36.521-2 Introduction to CA Applicability for Transmitter		10.1.0
2012-03	KAN#33	K3-120636	0032	-	Characteristics tests MPR and ACLR	10.0.0	10.1.0
2012-03	RAN#55	R5-120838	0053	-	RF/RRM: Applicability for new added RRM test cases		10.1.0
	RAN#55	R5-120840	0054	-	Applicability for new UL MIMO test case		10.1.0
2012-06	RAN#56	R5-121185	0055	-	Updates to applicability for newly introduced CA feature TDD chapter 8 test cases in 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121219	0056	-	Adding operating band 26 to TS 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121904	0057	-	Addition of applicability for E-UTRAN Inter frequency case		10.2.0
					reselection in the existence of non-allowed CSG cell		
2012-06	RAN#56	R5-121965	0058	-	Applicability for new UL MIMO test cases		10.2.0
2012-06	RAN#56	R5-121966	0059	-	Updates to applicability for Transmit timing tests in 36.521-2		10.2.0
2012-06	RAN#56	R5-121967	0060	-	Applicability for new R9 RRM test cases		10.2.0
2012-06 2012-09	RAN#56 RAN#57	R5-121990 R5-123093	0061 0062	<del> -</del>	Addition of applicability for CA TCs Updates to applicability for Chapter9 absolute and relative		10.2.0
		1.0 .2000	0002		RSRP measurement test cases for carrier aggregation.	. 0.2.0	10.0.0
2012-09	RAN#57	R5-123165	0063	-	Introduction of Applicability for E-UTRAN Event Triggered reporting on deactivated SCell with PCell interruption in non-	10.2.0	10.3.0
2012-09	RAN#57	R5-123169	0064	-	DRX for CA  Correction to Applicability for RSRQ for E-UTRA Carrier	10.2.0	10.3.0
2012-09	RAN#57	R5-123170	0065	<del> </del>	Aggregation Introduction of eDL MIMO to UE service capabilities	10 2 0	10.3.0
2012-09	RAN#57	R5-123533	0066	<del> </del> -	Update of References in 36.521-2 v980 (pointer)		10.3.0
2012-09	RAN#57	R5-123542	0067	-	TS 36.521-2:TDD CA test cases applicability correction		10.3.0
2012-09	RAN#57	R5-123788	0068	-	Clarification of the release of UTRAN-EUTRAN Inter-RAT RRM test cases in 36.521-2		10.3.0
2012-09	RAN#57	R5-123856	0069	1-	Applicability for new RRM test cases	10.2.0	10.3.0
2012-09	RAN#57	R5-123858	0070	-	Introduction of Applicability for ACS for CA and UE config		10.3.0
2012-09	RAN#57	R5-123909	0071	-	Tx output power for CA TS 36.521-2:New UE categories addition		10.3.0
2012-09	RAN#57	R5-123942	0071	<u> </u>	Applicability update for test cases in TS36.521-1 with single		10.3.0
2012-03	IVAIN#J1	110-120342	0012		BW requirements not defined for all operating bands, rel-8	10.2.0	10.3.0

Date	TSG #	TSG Doc.	CR	Rev		Old	New
2012-09	RAN#57	R5-123993	0073	-	Update applicability of UL-MIMO related conformance test cases		10.3.0
2012-09	RAN#57	R5-123997	0074	-	TS 36.521-2:Applicability for new CQI test cases	10.2.0	10.3.0
2012-12	RAN#58	R5-125251	0075	-	Removing FGI bit 5 from section four RRM test cases		10.4.0
2012-12	RAN#58	R5-125390	0076	-	Adding bands 28 and 44 to TS36.521-2	10.3.0	10.4.0
2012-12	RAN#58	R5-125821	0077	-	Correction to Additional Information for RRM 4.3.4.3		10.4.0
2012-12	RAN#58	R5-125833	0078	-	Introduction of Band 27 to TS 36.521-2		10.4.0
2012-12	RAN#58	R5-125836	0079	-	Update applicability of UL-MIMO related conformance test cases	10.3.0	10.4.0
2012-12	RAN#58	R5-125920	0800	-	Applicability removal of RRM TC8.12.1	10.3.0	10.4.0
2012-12	RAN#58	R5-126049	0081	-	Updates to the applicability of CA RF Tx tests		10.4.0
2012-12	RAN#58	R5-124138	0082	-	Updates to the applicability of CA RF Performance tests	10.3.0	10.4.0
2012-12	RAN#58	R5-124168	0083	-	Updates to the applicability of CA RF Rx tests		10.4.0
2012-12	RAN#58	R5-124169	0084	-	Applicability for new RRM CA related TCs		10.4.0
2013-03	RAN#59	R5-130177	0085	-	Introduction of new rel-10 Reporting of RI test cases into applicability specification		10.5.0
2013-03	RAN#59	R5-130297	0086	-	Introduction of eDL-MIMO applicability		10.5.0
2013-03	RAN#59	R5-130306	0087	-	Updates to applicability for newly introduced eICIC feature chapter9 RRM test cases		10.5.0
2013-03	RAN#59	R5-130445	0090	-	Correction to CA physical layer implementation capabilities	10.4.0	10.5.0
2013-03	RAN#59	R5-130464	0091	-	Correction of FGI bit 8 in 36.521-2		10.5.0
2013-03	RAN#59	R5-130802	0092	-	Addition of applicability for RRM TCs 9.1.7.1 and 9.1.7.2		10.5.0
2013-03	RAN#59	R5-130807	0093	-	Applicability correction to Spurious emission band UE co- existence(36.521-2)		10.5.0
2013-03	RAN#59	R5-130997	0098	-	Addition of applicability statement for 6 new eICIC test cases	10.4.0	10.5.0
2013-03	RAN#59	R5-130375	8800	-	Updates to CA physical layer baseline implementation capabilities for CA band 7	10.5.0	11.0.0
2013-03	RAN#59	R5-130379	0089	-	Updates to CA physical layer baseline implementation capabilities for CA band 41	10.5.0	11.0.0
2013-03	RAN#59	R5-130927	0094	-	Updates on the supported CA configurations for CA_38, CA_3-7 and CA_7-20	10.5.0	11.0.0
2013-03	RAN#59	R5-130928	0095	-	Addition of CA physical layer implementation capabilities for CA_4-5 and CA_4-13	10.5.0	11.0.0
2013-03	RAN#59	R5-130929	0096	-	Updates of Inter-Band CA combinations CA_3-20 and CA_2-29	10.5.0	11.0.0
2013-03	RAN#59	R5-130930	0097	-	CA_2-17 and CA_4-17 addition to supported capabilities in 36.521-2	10.5.0	11.0.0
2013-06	RAN#60	R5-131155	0100	-	Introduction of new rel-11 Reporting of RI test cases into applicability specification	11.0.0	11.1.0
2013-06	RAN#60	R5-131159	0101	-	Introduction of Maximum Input Level test case for CA (interband DL CA without UL CA) into applicability specification	11.0.0	11.1.0
2013-06	RAN#60	R5-131212	0102	-	Correction of applicability conditions for TC 8.2.1.1.1_1: TC 8.2.1.2.1_1 and TC 8.3.2.1.1_1 in 36.521-2	11.0.0	11.1.0
2013-06	RAN#60	R5-131444	0103	-	Addition of applicability for Configured UE transmitted Output Power for inter-band CA	11.0.0	11.1.0
2013-06	RAN#60	R5-131525	0104	-	Corrections of eDL-MIMO applicability to align with reporting of CSI	11.0.0	11.1.0
2013-06	RAN#60	R5-131712	0105	=	Corrections to Table 4.1-1a "Applicability of RF conformance test cases Conditions" and Table 4.2-1a: Applicability of RRM conformance test cases Conditions	11.0.0	11.1.0
2013-06	RAN#60	R5-131912	0106	-	36.521-2: Inter-band CA configurations update	11.0.0	11.1.0
2013-06	RAN#60	R5-131914	0107	-	Addition of applicability for FDD RF TCs 9.3.4.1.1, 9.3.4.2.1, 9.4.1.2.1, 9.4.2.2.1 and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2, 9.4.1.2.2 and 9.4.2.2.2	11.0.0	11.1.0
2013-06	RAN#60	R5-131927	0108	-	Updates to applicability for newly introduced eICIC feature chapter9 RRM test cases in 36.521-2	11.0.0	11.1.0
2013-06	RAN#60	R5-132013	0109	1-	36.521-2 specification clean up	11.0.0	11.1.0
2013-06	RAN#60	R5-132015	0110	-	Update of FGI tables in TS 36.521-2		11.1.0
2013-06	RAN#60	R5-132111	0111	-	Removal of Spurious emission UE co-existence test case 6.6.3.2_1 from 36.521-2		11.1.0
2013-09	RAN#61	R5-133125	0112	-	editorial correction for RRM test case Condition C46	11.1.0	11.2.0
2013-09	RAN#61	R5-133143	0113	1-	Addition of applicability for test cases 7.3.13 and 7.3.15		11.2.0
2013-09	RAN#61	R5-133251	0114	-	Addition of Band 31 to 36.521-2		11.2.0
2013-09	RAN#61	R5-133315	0115	-	Applicability for new CA TCs for 20MHz		11.2.0
2013-09	RAN#61	R5-133347	0116	-	elCIC RRM: Applicability for some new added elCIC test cases		11.2.0
2013-09	RAN#61	R5-133350	0117	1-	CA RF: Applicability for some new added CA test cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133403	0118	-	CA RRM: Corrections to applicability of CA RRM TC-s		11.2.0
2013-09	RAN#61	R5-133816	0119	-	Update applicability of test cases required to support PUSCH 2-2		11.2.0
2013-09	RAN#61	R5-133825	0120	-	elCIC RF: Applicability for some new added elCIC test cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133827	0121	-	Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and 8.3.2.2.1		11.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2013-09	RAN#61	R5-133839	0122	-	Correction of applicability for FDD RF TCs 9.3.4.1.1,	11.1.0	11.2.0
					9.3.4.2.1 & 9.4.1.2.1and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2 &		
					9.4.1.2.2		
2013-09	RAN#61	R5-133840	0123	-	Addition of applicabilities for inter-freq/RAT without	11.1.0	11.2.0
					measurement gaps TCs		
2013-09	RAN#61	R5-133841	0124	-	Correction to the reference information of chapter 2.	11.1.0	11.2.0
2013-09	RAN#61	R5-133849	0125	-	RRM: Update of applicability of some test ceses	11.1.0	11.2.0
2013-09	RAN#61	R5-133868	0126	-	Addition of UE capability information Bandwidth Combination	11.1.0	11.2.0
					Set for Carrier Aggregation in ICS proforma tables		
2013-09	RAN#61	R5-133872	0127	-	Update RF performance test applicability table for LTE B14	11.1.0	11.2.0
					public safety high power UE		
2013-09	RAN#61	R5-133875	0128	-	Addition of applicability for new TCs 8.3.1.1.3 and 8.3.2.1.4	11.1.0	11.2.0
2013-09	RAN#61	R5-133891	0129	-	Applicability addition for CA test cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133897	0130	-	Addition of the applicability of TC7.3.14 & TC7.3.16	11.1.0	11.2.0

# History

	Document history						
V11.0.0	April 2013	Publication					
V11.1.0	July 2013	ablication					
V11.2.0	October 2013	Publication					