

# ETSI TS 136 521-2 V12.6.0 (2015-07)



**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 12.6.0 Release 12)**



---

**Reference**

RTS/TSGR-0536521-2vc60

---

**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**

The present document can be downloaded from:  
<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at  
<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:  
<https://portal.etsi.org/People/CommitteeSupportStaff.aspx>

---

**Copyright Notification**

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2015.  
All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.  
**3GPP™** and **LTE™** 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 <http://webapp.etsi.org/key/queryform.asp>.

---

## Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

# Contents

Intellectual Property Rights .....	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	4
Introduction .....	4
1 Scope .....	5
2 References .....	5
3 Definitions, symbols and abbreviations .....	6
3.1 Definitions .....	6
3.2 Symbols.....	7
3.3 Abbreviations .....	7
4 Recommended test case applicability.....	7
4.1 RF conformance test cases .....	8
4.2 RRM conformance test cases .....	56
<b>Annex A (normative): ICS proforma for E-UTRA User Equipment.....</b>	<b>105</b>
A.1 Guidance for completing the ICS proforma .....	105
A.1.1 Purposes and structure .....	105
A.1.2 Abbreviations and conventions.....	105
A.1.3 Instructions for completing the ICS proforma .....	106
A.2 Identification of the User Equipment .....	106
A.2.1 Date of the statement .....	106
A.2.2 User Equipment Under Test (UEUT) identification .....	106
A.2.3 Product supplier .....	107
A.2.4 Client .....	107
A.2.5 ICS contact person .....	108
A.3 Identification of the protocol.....	108
A.4 ICS proforma tables.....	108
A.4.1 UE Implementation Types .....	108
A.4.2 UE Service Capabilities .....	109
A.4.3 Baseline Implementation Capabilities .....	109
A.4.4 Feature group indicators .....	114
A.4.5 Additional information .....	137
A.4.6 CA Physical Layer Baseline Implementation Capabilities .....	142
A.4.6.1 Intra-band contiguous CA Physical Layer Baseline Implementation Capabilities.....	143
A.4.6.2 Intra-band non-contiguous CA Physical Layer Baseline Implementation Capabilities .....	144
A.4.6.3 Inter-band CA Physical Layer Baseline Implementation Capabilities .....	145
<b>Annex B (informative): Change history .....</b>	<b>152</b>
History .....	162

---

# 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 UE.

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".
- [17] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".
- [18] 3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".

---

## 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.

Selection criteria of tested bands / CA-Configurations for each applicable test is formally expressed using group theory 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. It may also indicate a range of releases or a single release to which a 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 a 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.

#### Tested Bands / CA-Configurations Selection

This column defines a set of bands / CA Configurations the test is to be run for, if the test is applicable. If the set is empty, the test is considered as not applicable.

The following notations are used in the the tested bands selection column:

Di	Derive the set based on Band Selection Criteria Di defined in table 4.1-1b.
Ei	Derive the set based on CA Configurations Selection Criteria Ei defined in table 4.1-1c.
TBD	Band selection not defined at this time, in the meantime test all Bands / CA Configurations
Text	For more complex selection criteria, or if the criteria are already specified somewhere else in the spec, text reference to the section is given.

#### 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	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
<b>Transmitter Characteristics</b>						
6.2.2	UE Maximum Output Power	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.2.2_1	UE Maximum Output Power for HPUE	Rel-10	C39	UE supporting E-UTRA Power Class 1	D04	FDD
						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	E01	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.2.2A.2	UE Maximum Output Power for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA		FDD
						TDD
6.2.2A.3	UE Maximum Output Power for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA		FDD
						TDD
6.2.2B	UE Maximum Output Power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.2.2E	UE Maximum Output Power for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)		FDD
						HD-FDD
						TDD
6.2.3A.2	Maximum Power Reduction (MPR) for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA		FDD
						TDD
6.2.3A.3	Maximum Power Reduction (MPR) for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA		FDD
						TDD
6.2.5	Configured UE transmitted Output Power	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.2.5_1	Configured UE transmitted Output Power for HPUE	Rel-10	C39	UE supporting E-UTRA Power Class 1	D04	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	E01	FDD
						TDD
6.2.5B	Configured transmitted power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.3.1	Void					

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.3.2	Minimum Output Power	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						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	E01	FDD
						TDD
6.3.2B	Minimum Output Power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.3.3	Transmit OFF Power	Rel-8	C113	UE supporting E-UTRA	D01	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	E01	FDD
						TDD
6.3.3A.3	Transmit OFF Power for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-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	D05	FDD
						TDD
6.3.4.1	General ON/OFF time mask	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.3.4.2.1	PRACH time mask	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.3.4.2.2	SRS time mask	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	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	E01	FDD
						TDD
6.3.4A.1.3	General ON/OFF time mask for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-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	D05	FDD
						TDD
6.3.5.1	Power Control Absolute Power Tolerance	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.3.5.2	Power Control Relative Power Tolerance	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.3.5.3	Aggregate Power Control Tolerance	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						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	E01	FDD
						TDD
6.3.5A.1.2	Power Control Absolute Power Tolerance for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA		FDD
						TDD
6.3.5A.1.3	Power Control Absolute Power Tolerance for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA		FDD
						TDD
6.3.5A.2.1	Power Control Relative Power	Rel-10	C19	UE supporting E-UTRA and	E01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Tolerance for CA (intra-band contiguous DL CA and UL CA)			intra-band contiguous DL CA and UL CA		TDD
6.3.5A.2.2	Power Control Relative Power Tolerance for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA		FDD TDD
6.3.5A.2.3	Power Control Relative Power Tolerance for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA		FDD 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	E01	FDD TDD
6.3.5B.1	Power Control Absolute power tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD TDD
6.3.5B.2	Power Control Relative power tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD TDD
6.3.5B.3	Aggregate power control tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD TDD
6.5.1	Frequency Error	Rel-8	C113	UE supporting E-UTRA	D01	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	E01	FDD TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.5.1B	Frequency Error for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.5.2.1	Error Vector Magnitude (EVM)	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.1A	PUSCH-EVM with exclusion period	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.2	Carrier leakage	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.3	In-band emissions for non allocated RB	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.4	EVM equalizer spectrum flatness	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2A.1.1	Error Vector Magnitude (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	E01	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	E01	FDD
						TDD
6.5.2A.3.1	In-band emissions for non allocated RB 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	E01	FDD
						TDD
6.5.2B.1	Error Vector Magnitude for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.5.2B.2	Carrier leakage for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.5.2B.3	In-band emissions for non allocated RB for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.5.2B.4	EVM equalizer spectrum flatness for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.6.1	Occupied bandwidth	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						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	E01	FDD
						TDD
6.6.1A.3	Occupied bandwidth for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-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	D05	FDD
						TDD
6.6.2.1	Spectrum Emission Mask	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.2.1_1	Spectrum Emission Mask for Multi-cluster PUSCH	Rel-10	C100	UE supporting E-UTRA and Multi-Cluster PUSCH	D07	FDD
6.6.2.1A.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	E01	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.6.2.1A.3	Spectrum Emission Mask for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA		FDD
						TDD
6.6.2.1B	Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.6.2.2	Additional Spectrum Emission Mask	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.2.2B	Additional Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.6.2.3	Adjacent Channel Leakage power Ratio	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.2.3_1	Adjacent Channel Leakage power Ratio for HPUE	Rel-10	C39	UE supporting E-UTRA Power Class 1	D04	FDD
						TDD
6.6.2.3_2	Adjacent Channel Leakage power Ratio for Multi-Cluster PUSCH	Rel-10	C100	UE supporting E-UTRA and Multi-Cluster PUSCH	D07	FDD
6.6.2.3A.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	E01	FDD
						TDD
6.6.2.3B	Adjacent Channel Leakage power Ratio for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.6.2.4	Void					
6.6.3.1	Transmitter Spurious emissions	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.3.1_1	Transmitter Spurious emissions for Multi-	Rel-10	C100	UE supporting E-UTRA and	D07	FDD



Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Cluster PUSCH			Multi-Cluster PUSCH		
6.6.3.1A.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	E01	FDD
						TDD
6.6.3.2	Spurious emission band UE co-existence	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.3.2A.1	Spurious emission band UE co-existence 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	E01	FDD
						TDD
6.6.3.3	Additional spurious emissions	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.3.3A.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	E01	FDD
						TDD
6.6.3B.2	Spurious emission band UE co-existence for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL-MIMO	D05	FDD
						TDD
6.7	Transmit intermodulation	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.7A.1	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	E01	FDD
						TDD
6.7A.2	Transmit intermodulation for CA (inter-band DL	Rel-11	C116	UE supporting E-UTRA and inter-band DL		FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	CA and UL CA)			CA and UL CA		
6.7B	Transmit intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.8B	Time alignment between transmitter branches for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
<b>Receiver Characteristics</b>						
7.3	Reference sensitivity level	Rel-8	C113	UE supporting E-UTRA	D01	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	E01	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	E04	FDD
						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	E06	FDD
						TDD
7.3A.4	Reference sensitivity level for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD
						TDD
7.3E	Reference sensitivity level for UE	Rel-12	C112	UE supporting E-UTRA (UE		FDD
						HD-FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	category 0			category 0)		TDD
7.3B	Reference sensitivity level for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.4	Maximum input level	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
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	E01	FDD
						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	E04	FDD
						TDD
7.4A.3	Maximum input 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	E06	FDD
						TDD
7.4A.4	Maximum input level for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD
						TDD
7.4B	Maximum input level for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.5	Adjacent Channel Selectivity (ACS)	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
7.5A.1	Adjacent Channel Selectivity (ACS) for CA (intra-band	Rel-10	C19	UE supporting E-UTRA and intra-band	E01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	contiguous DL CA and UL CA)			contiguous DL CA and UL CA		TDD
7.5A.2	Adjacent Channel Selectivity (ACS) 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	E04	FDD TDD
7.5A.3	Adjacent Channel Selectivity (ACS) 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	E06	FDD TDD
7.5A.4	Adjacent Channel Selectivity (ACS) for CA (intra band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD TDD
7.5B	Adjacent Channel Selectivity (ACS) for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD TDD
7.6.1	In-band blocking	Rel-8	C113	UE supporting E-UTRA	D01	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	E01	FDD TDD
7.6.1A.2	In-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	E04	FDD TDD
7.6.1A.3	In-band blocking for CA (inter-band DL	Rel-10	C21	UE supporting E-UTRA and	E06	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	CA without UL CA)			inter-band DL CA but no UL CA		TDD
7.6.1A.4	In-band blocking for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD TDD
7.6.1B	In-band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD TDD
7.6.2	Out of-band blocking	Rel-8	C113	UE supporting E-UTRA	D01	FDD 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	E01	FDD 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	E04	FDD TDD
7.6.2A.3	Out of-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	E06	FDD TDD
7.6.2A.4	Out of-band blocking for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
7.6.2B	Out-of-band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.6.3	Narrow band blocking	Rel-8	C113	UE supporting E-UTRA	D01	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	E01	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	E04	FDD
						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	E06	FDD
						TDD
7.6.3A.4	Narrow band blocking for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD
						TDD
7.6.3B	Narrow band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.7	Spurious response	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						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	E01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				CA and UL CA		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	E04	FDD TDD
7.7A.3	Spurious response 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	E06	FDD TDD
7.7A.4	Spurious response for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA	E05	FDD TDD
7.7B	Spurious response for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD TDD
7.8.1	Wide band Intermodulation	Rel-8	C113	UE supporting E-UTRA	D01	FDD 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	E01	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	E04	FDD TDD
7.8.1A.3	Wide band Intermodulation for CA (inter-band DL	Rel-10	C21	UE supporting E-UTRA and inter-band DL	E06	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	CA without UL CA)			CA but no UL CA		TDD
7.8.1B	Wide band intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.9	Spurious emissions	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
<b>Performance Requirement</b>						
8.2.1.1.1	FDD PDSCH Single Antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
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)	TBD	
8.2.1.1.1_A.1	FDD PDSCH Single Antenna Port Performance for CA (2 DL CA)	Rel-10	C102	UE supporting E-UTRA FDD and intra-band contiguous DL CA or inter-band DL CA (UE categories from 3 to 8)	TBD	
		Rel-11	C103	UE supporting E-UTRA FDD and Downlink Intra-band non-contiguous CA (UE categories from 3 to 8)	TBD	
8.2.1.1.1_A.2	FDD PDSCH Single Antenna Port Performance for CA (3DL CA)	Rel-12	TBD	TBD	TBD	
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	TBD	
8.2.1.2.1	FDD PDSCH Transmit Diversity 2x2	Rel-8	C01	UE supporting E-UTRA FDD	TBD	



Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
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)	TBD	
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	TBD	
8.2.1.2.2_1	FDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	TBD	
8.2.1.2.3_C.1	FDD PDSCH Transmit diversity 2x2 for eICIC (non-MBFSN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indicator 115	TBD	
8.2.1.2.3_E.1	FDD PDSCH Transmit diversity 2x2 for feICIC (non-MBFSN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
8.2.1.2.4	FDD PDSCH Transmit Diversity 2x2 with TM3 Interference Model – Enhanced Performance Requirement Type A	Rel-11	C44	UE supporting E-UTRA FDD and the enhanced performance requirements type A for LTE	TBD	
8.2.1.3.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
8.2.1.3.1_1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 (Release 11 and forward)	Rel-11	C01	UE supporting E-UTRA FDD	TBD	
8.2.1.3.1_A.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (2 DL CA)	Rel-10	C101	UE supporting E-UTRA FDD and intra-band contiguous DL CA or inter-band DL CA (UE Categories from 2 to 8)	TBD	
		Rel-11	C90	UE supporting E-UTRA FDD	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				and intra-band non-contiguous DL CA (UE category 2 to 8)		
8.2.1.3.1A_A.1	FDD Soft buffer management test for CA (2 DL CA)	Rel-10	C104	UE supporting E-UTRA FDD and intra-band contiguous DL CA or inter-band DL CA (UE category 3 and 4)	TBD	
		Rel-11	C106	UE supporting E-UTRA FDD and Downlink Intra-band non-contiguous CA (UE categories 3 and 4)	TBD	
8.2.1.3.2	FDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C13	UE supporting E-UTRA FDD	TBD	(UE categories 2-8)
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 Indicator 115	TBD	
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 Indicator 115	TBD	
8.2.1.3.3_E.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
8.2.1.4.1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	TBD	
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	TBD	
8.2.1.4.1_E.1	FDD PDSCH Closed Loop Single/Multi	Rel-11	C77	UE supporting E-UTRA FDD	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Layer Spatial Multiplexing 2x2 for feICIC (non-MBSFN ABS)			and CRS interference handling (UE categories 2-8)		
8.2.1.4.2	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	TBD	
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	TBD	
8.2.1.4.2_A.1	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (2 DL CA)	Rel-10	C101	UE supporting E-UTRA FDD and intra-band contiguous DL CA or inter-band DL CA (UE categories from 2 to 8)	TBD	
		Rel-11	C90	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA (UE category 2 to 8)	TBD	
8.2.1.4.3	FDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference model - Enhanced Performance Requirement Type A	Rel-11	C44	UE supporting E-UTRA FDD and the enhanced performance requirements type A for LTE	TBD	
8.2.2.1	Void				TBD	
8.2.2.1.1	TDD PDSCH Single Antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
8.2.2.1.1_1	TDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C54	UE supporting E-UTRA TDD (UE categories 1, 2)	TBD	
8.2.2.1.1_A.1	TDD PDSCH Single Antenna Port Performance for CA (2DL CA)	Rel-10	C110	UE supporting E-UTRA TDD and intra-band contiguous DL CA(UE		

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				categories 5 and onwards)		
		Rel-11	C109	UE supporting E-UTRA TDD and inter-band or Intra-band non-contiguous DL CA(UE categories 5 and onwards)		
8.2.2.1.1_A.4	TDD PDSCH Single Antenna Port Performance for CA (3DL CA)	Rel-12	TBD	TBD	TBD	
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	TBD	
8.2.2.2	Void					
8.2.2.2.1	TDD PDSCH Transmit Diversity 2x2	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
8.2.2.2.1_1	TDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C16	UE supporting E-UTRA TDD (UE category 1)	TBD	
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	TBD	
8.2.2.2.2_1	TDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	TBD	
8.2.2.2.3_C.1	TDD PDSCH Transmit diversity 2x2 for eICIC (non-MBFSN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indicator 115	TBD	
8.2.2.2.3_E.1	TDD PDSCH Transmit diversity 2x2 for feICIC (non-MBFSN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				handling (UE categories 2-8)		
8.2.2.2.4	TDD PDSCH Transmit Diversity 2x2 with TM3 Interference Model – Enhanced Performance Requirement Type A	Rel-11	C45	UE supporting E-UTRA TDD and the enhanced performance requirements type A for LTE	TBD	
8.2.2.3	Void					
8.2.2.3.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
8.2.2.3.1_1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 (Release 11 and forward)	Rel-11	C02	UE supporting E-UTRA TDD	TBD	
8.2.2.3.1_A.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (2DL CA)	Rel-10	C110	UE supporting E-UTRA TDD and intra-band contiguous DL CA (UE category 5 and onwards)		
		Rel-11	C109	UE supporting E-UTRA TDD and inter-band or intra-band non-contiguous DL CA  (UE category 5 and onwards)		
8.2.2.3.1_A.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (Intra-band non-contiguous DL CA)	Rel-11	C70	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA  (UE category 5 and onwards)	TBD	
8.2.2.3.1_A.3	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (inter-band DL CA)	Rel-11	C82	UE supporting E-UTRA TDD and inter-band DL CA (UE categories from 5 to 8)	TBD	
8.2.2.3.1A_A.1	TDD Soft buffer management for CA	Rel-10	C105	UE supporting E-UTRA TDD and intra-band	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	(2 DL CA)			contiguous DL CA or inter-band DL CA  (UE category 3 and 4)		
		Rel-11	C72	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA  (UE category 3 and 4)	TBD	
8.2.2.3.2	TDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C02	UE supporting E-UTRA TDD (UE of category 2-8)	TBD	
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 Indicator 115	TBD	
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 Indicator 115	TBD	
8.2.2.3.3_E.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling (UE categories 2-8)	TBD	
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	TBD	
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	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.2.2.4.1_E.1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling (UE categories 2-8)	TBD	
8.2.2.4.2	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	TBD	
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	TBD	
8.2.2.4.2_A.1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (2DL CA)	Rel-10	C110	UE supporting E-UTRA TDD and intra-band contiguous DL CA(UE categories 5 and onwards)		
		Rel-11	C109	UE supporting E-UTRA TDD and inter-band or Intra-band non-contiguous DL CA(UE categories 5 and onwards)		
8.2.2.4.3	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference Model – Enhanced Performance Requirement Type A	Rel-11	C45	UE supporting E-UTRA TDD and the enhanced performance requirements type A for LTE	TBD	
8.2.2.7_A.1	TDD Carrier aggregation with power imbalance (intra-band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	TBD	
8.3.1	Void					

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			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	TBD	
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	TBD	
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 Indicator 103 and supporting the enhanced performance requirements type A for LTE	TBD	
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	TBD	
8.3.1.3.1_F	FDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and single NZP CSI-RS resource for CoMP	Rel-11	C50	UE supporting E-UTRA FDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
8.3.1.3.2_F	FDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and multiple NZP CSI-RS resources for CoMP	Rel-11	C52	UE supporting E-UTRA FDD and Maximum CSI processes of Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE	TBD	



Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				categories 2-8)		
8.3.1.3.3_F	FDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Different Cell ID, Colliding CRS and single NZP CSI-RS resource for CoMP	Rel-11	C117	UE supporting E-UTRA FDD and Maximum CSI processes of One, Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
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	TBD	
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)	TBD	
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.	TBD	
		Rel-10	C02	UE supporting E-UTRA TDD.	TBD	
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	TBD	
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.	TBD	
		Rel-10	C02	UE supporting E-UTRA TDD.	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
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	TBD	
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 Indicator 103 and supporting the enhanced performance requirements type A for LTE	TBD	
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.	TBD	
		Rel-10	C02	UE supporting E-UTRA TDD.	TBD	
8.3.2.2.1_D	TDD PDSCH Dual-layer Spatial Multiplexing for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	TBD	
8.3.2.4.1_F	TDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and single NZP CSI-RS resource for CoMP	Rel-11	C51	UE supporting E-UTRA TDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
8.3.2.4.2_F	TDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and multiple NZP CSI-RS resources for CoMP	Rel-11	C53	UE supporting E-UTRA TDD and Maximum CSI processes of Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				categories 2-8)		
8.3.2.4.3_F	TDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Different Cell ID, Colliding CRS and single NZP CSI-RS resource for CoMP	Rel-11	C118	UE supporting E-UTRA TDD and Maximum CSI processes of One, Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
8.4.1.1	FDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
8.4.1.2	Void				TBD	
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	TBD	
8.4.1.2.1_1	FDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	TBD	
8.4.1.2.2	FDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	TBD	
8.4.1.2.3_E.1	FDD PCFICH/PDCCH Transmit Diversity 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
8.4.1.2.3_E.2	FDD PCFICH/PDCCH Transmit Diversity 2x2 for feICIC (MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
8.4.1.2.2_1	FDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and	Rel-9	C01	UE supporting E-UTRA FDD	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	forward)					
8.4.1.2.3_C.1	FDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (non- MBSFN ABS)	Rel-10	C29	UE supporting E-UTRA FDD and Feature Group Indicator 115	TBD	
8.4.1.2.3_C.2	FDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indicator 115	TBD	
8.4.2.1	TDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
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	TBD	
8.4.2.2.1_1	TDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	TBD	
8.4.2.2.2	TDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	TBD	
8.4.2.2.2_1	TDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	TBD	
8.4.2.2.3_C.1	TDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (non- MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indicator 115	TBD	
8.4.2.2.3_C.2	TDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indicator 115	TBD	
8.4.2.2.3_E.1	TDD PCFICH/PDCCH Transmit Diversity	Rel-11	C78	UE supporting E-UTRA TDD and CRS	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	2x2 for feICIC (non-MBSFN ABS)			interference handling and ss-CCH interference handling (UE categories 2-8)		
8.4.2.2.3_E.2	TDD PCFICH/PDCCH Transmit Diversity 2x2 for feICIC (MBSFN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling (UE categories 2-8)	TBD	
8.5.1.1	FDD PHICH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
8.5.1.2	Void				TBD	
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	TBD	
8.5.1.2.1_1	FDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	TBD	
8.5.1.2.2	FDD PHICH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	TBD	
8.5.1.2.2_1	FDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	TBD	
8.5.1.2.3_C.1	FDD PHICH Transmit Diversity 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C29	UE supporting E-UTRA FDD and Feature Group Indicator 115	TBD	
8.5.1.2.3_E.1	FDD PHICH Transmit Diversity 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
8.5.2.1	TDD PHICH Single-antenna Port	Rel-8	C02	UE supporting E-UTRA TDD	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Performance					
8.5.2.2	Void				TBD	
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	TBD	
8.5.2.2.1_1	TDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	TBD	
8.5.2.2.2	TDD PHICH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	TBD	
8.5.2.2.2_1	TDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	TBD	
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 Indicator 115	TBD	
8.5.2.2.3_E.1	TDD PHICH Transmit Diversity 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling (UE categories 2-8)	TBD	
8.7.1.1	FDD sustained data rate performance (Rel-9 and forward)	Rel-9	C76	UE supporting E-UTRA FDD(UE categories from 1 to 4)	TBD	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.1.1_A.1 or 8.7.3.1 is executed.
8.7.1.1_1	FDD sustained data rate performance (Rel-10 and forward)	Rel-10	C42	UE supporting E-UTRA FDD (UE categories 6, 7)	TBD	It is not necessary for CA UEs and EPDCCH UEs to be

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						tested in this test if 8.7.1.1_A.1 or 8.7.3.1 is executed.
8.7.1.1_A.1	FDD Sustained data rate performance for CA (2 DL CA )	Rel-10	C107	UE supporting E-UTRA FDD and intra-band contiguous DL CA or inter-band DL CA  (UE category 3, 4, 6 and 7)	TBD	
		Rel-11	C93	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA  (UE category 3, 4, 6 and 7)	TBD	
8.7.1.1_A.2	FDD Sustained data rate performance for CA (3DL CA)	Rel-12	TBD	TBD	TBD	
8.7.2.1	TDD sustained data rate performance (Rel-9 and forward)	Rel-9	C111	UE supporting E-UTRA TDD(UE categories from 1 to 4)	TBD	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.2.1_A.1 or 8.7.4.1 is executed.
8.7.2.1_1	TDD sustained data rate performance (Rel-10 and forward)	Rel-10	C73	UE supporting E-UTRA TDD (UE category 6 and 7)	TBD	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.2.1_A.1 or 8.7.4.1 is executed.
8.7.2.1_A.1	TDD sustained data rate performance for CA (2DL CA)	Rel-10	C74	UE supporting E-UTRA TDD and intra-band contiguous DL CA (UE category 6 and	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				7)		
		Rel-11	C75	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA  (UE category 6 and 7)	TBD	
		Rel-10	C83	UE supporting E-UTRA TDD and inter-band DL CA ( UE category 3, 4, 6 and 7)	TBD	
8.7.2.1_A.4	TDD Sustained data rate performance for CA (3DL CA)	Rel-12	TBD	TBD	TBD	
8.7.3.1	FDD sustained data rate performance for EPDCCH scheduling	Rel-11	C55	UE supporting E-UTRA FDD and EPDCCH	TBD	
8.7.4.1	TDD sustained data rate performance for EPDCCH scheduling	Rel-11	C56	UE supporting E-UTRA TDD and EPDCCH	TBD	
8.8.1.1	FDD distributed EPDCCH performance	Rel-11	C55	UE supporting E-UTRA FDD and EPDCCH	TBD	
8.8.1.2	TDD distributed EPDCCH performance	Rel-11	C56	UE supporting E-UTRA TDD and EPDCCH	TBD	
8.8.2.1	FDD localized EPDCCH performance with TM9	Rel-11	C91	UE supporting E-UTRA FDD and EPDCCH and Feature Group Indicator 103	TBD	
8.8.2.2	TDD localized EPDCCH performance with TM9	Rel-11	C92	UE supporting E-UTRA TDD and EPDCCH and Feature Group Indicator 103	TBD	
8.8.3.1	FDD localized EPDCCH transmission with TM10 Type B quasi co-location type	Rel-11	C57	UE supporting E-UTRA FDD and EPDCCH and Multiple CSI processes on a component	TBD	



Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				carrier within a band with PDSCH transmission mode 10		
8.8.3.2	TDD localized EPDCCH transmission with TM10 Type B quasi co-location type	Rel-11	C58	UE supporting E-UTRA TDD and EPDCCH and Multiple CSI processes on a component carrier within a band with PDSCH transmission mode 10	TBD	
8.9.1.1.1	Transmit diversity performance for UE category 0 (Cell-Specific Reference Symbols)	Rel-12	C112	UE supporting E-UTRA (UE category 0)		
	<b>Reporting of Channel State Information</b>					
9.2.1.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
9.2.1.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
9.2.1.3_C.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for eICIC (non-MBSFN ABS)	Rel-10	C29	UE supporting E-UTRA FDD and Feature Group Indicator 115	TBD	
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 Indicator 115	TBD	
9.2.1.5_E.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for feICIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
9.2.1.6_E.1	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for feICIC (non-	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	MBSFN ABS)			handling and ss-CCH interference handling (UE categories 2-8)		
9.2.2.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-1	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
9.2.2.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-1	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
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	TBD	
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	TBD	
9.2.4.1_F	FDD CQI Reporting under AWGN conditions - Single CSI Process for CoMP	Rel-11	C117	UE supporting E-UTRA FDD and Maximum CSI processes of One, Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
9.2.4.2_F	TDD CQI Reporting under AWGN conditions - Single CSI Process for CoMP	Rel-11	C118	UE supporting E-UTRA TDD and Maximum CSI processes of One, Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	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	TBD	
9.3.1.1.2	TDD CQI Reporting under fading conditions - PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
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	TBD	
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	TBD	
9.3.1.3.1_E.1	FDD CQI Reporting under fading conditions – PUSCH 3-0 for feICIC (non-MBSFN ABS)	Rel-11	C79	UE supporting E-UTRA FDD and CRS interference handling	TBD	
9.3.1.3.2_E.1	TDD CQI Reporting under fading conditions – PUSCH 3-0 for feICIC (non-MBSFN ABS)	Rel-11	C80	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling	TBD	
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)	TBD	
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)	TBD	
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)	TBD	
9.3.2.1.2_1	TDD CQI Reporting under fading conditions - PUCCH 1-0 (Release 9 and	Rel-9	C16	UE supporting E-UTRA TDD (UE category 1)	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	forward)					
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	TBD	
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	TBD	
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	TBD	
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	TBD	
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	TBD	
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	TBD	
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	TBD	
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	TBD	
9.3.5.1.1	FDD CQI Reporting under fading conditions - PUCCH 1-0 - Enhanced	Rel-11	C44	UE supporting E-UTRA FDD and the enhanced	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Performance Requirement Type A			performance requirements type A for LTE		
9.3.5.1.2	TDD CQI Reporting under fading conditions - PUCCH 1-0 - Enhanced Performance Requirement Type A	Rel-11	C45	UE supporting E-UTRA TDD and the enhanced performance requirements type A for LTE	TBD	
9.3.5.2.1	FDD CQI Reporting under fading conditions - PUCCH 1-1 - Enhanced Performance Requirement Type A	Rel-11	C44	UE supporting E-UTRA FDD and the enhanced performance requirements type A for LTE	TBD	
9.3.5.2.2	TDD CQI Reporting under fading conditions - PUCCH 1-1 - Enhanced Performance Requirement Type A	Rel-11	C45	UE supporting E-UTRA TDD and the enhanced performance requirements type A for LTE	TBD	
9.3.6.1_F.1	FDD CQI Reporting under fading conditions with Single CSI process for CoMP	Rel-11	C50a	UE supporting E-UTRA FDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10	TBD	
9.3.6.1_F.2	FDD CQI Reporting under fading conditions with Three CSI processes for CoMP	Rel-11	C96	UE supporting E-UTRA FDD and Maximum CSI processes of Three on a component carrier within a band with PDSCH transmission mode 10	TBD	
9.3.6.1_F.3	FDD CQI Reporting under fading conditions with Four CSI processes for CoMP	Rel-11	C97	UE supporting E-UTRA FDD and Maximum CSI processes of Four on a component carrier within a	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				band with PDSCH transmission mode 10		
9.3.6.2_F.1	TDD CQI Reporting under fading conditions with Single CSI process for CoMP	Rel-11	C51a	UE supporting E-UTRA TDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10	TBD	
9.3.6.2_F.2	TDD CQI Reporting under fading conditions with Three CSI processes for CoMP	Rel-11	C98	UE supporting E-UTRA TDD and Maximum CSI processes of Three on a component carrier within a band with PDSCH transmission mode 10	TBD	
9.3.6.2_F.3	TDD CQI Reporting under fading conditions with Four CSI processes for CoMP	Rel-11	C99	UE supporting E-UTRA TDD and Maximum CSI processes of Four on a component carrier within a band with PDSCH transmission mode 10	TBD	
9.4.1.1.1	FDD PMI Reporting - PUSCH 3-1 (Single PMI)	Rel-8	C01	UE supporting E-UTRA FDD	TBD	
9.4.1.1.2	TDD PMI Reporting - PUSCH 3-1 (Single PMI)	Rel-8	C02	UE supporting E-UTRA TDD	TBD	
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	TBD	
9.4.1.2.2	TDD PMI Reporting - PUCCH 2-1 (Single PMI)	Rel-9	C38	UE supporting E-UTRA TDD and Feature Group Indicator	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				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	TBD	
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	TBD	
9.4.2.1.1	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI)	Rel-8 only	C11	UE supporting E-UTRA FDD and operating bands supporting 20 MHz Bandwidth (UE categories 2, 3, 4, 5)	TBD	
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	TBD	
9.4.2.1.2	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI)	Rel-8 only	C12	UE supporting E-UTRA TDD and operating bands supporting 20 MHz Bandwidth (UE categories 2, 3, 4, 5)	TBD	
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	TBD	
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	TBD	
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	TBD	
9.4.2.3.1_D	FDD PMI Reporting	Rel-10	C25	UE supporting	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	- PUSCH 1-2 (Multiple PMI) for eDL-MIMO			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	TBD	
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)	TBD	
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)	TBD	
9.5.1.1_2	FDD RI Reporting- PUCCH 1-1 (Release 11)	Rel-11	C13	UE supporting E-UTRA FDD (UE categories 2-8)	TBD	
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)	TBD	
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)	TBD	
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)	TBD	
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	TBD	
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	TBD	
9.5.3.1_C.1	FDD RI Reporting – PUCCH 1-0 for eICIC (non-MBSFN	Rel-10	C29	UE supporting E-UTRA FDD and Feature	TBD	



Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	ABS)			Group 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	TBD	
9.5.4.1_E.1	FDD RI Reporting – PUCCH 1-0 for feICIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling (UE categories 2-8)	TBD	
9.5.4.2_E.1	TDD RI Reporting – PUCCH 1-0 for feICIC (non-MBSFN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling (UE categories 2-8)	TBD	
9.5.5.1_F.1	FDD RI Reporting with Single CSI processes for CoMP	Rel-11	C50	UE supporting E-UTRA FDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
9.5.5.1_F.2	FDD RI Reporting with Multiple CSI processes for CoMP	Rel-11	C52	UE supporting E-UTRA FDD and Maximum CSI processes of Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
9.5.5.2_F.1	TDD RI Reporting with Single CSI process for CoMP	Rel-11	C51	UE supporting E-UTRA TDD and Maximum CSI processes of One on a component carrier within a	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				band with PDSCH transmission mode 10 (UE categories 2-8)		
9.5.5.2_F.2	TDD RI Reporting with Multiple CSI processes for CoMP	Rel-11	C53	UE supporting E-UTRA TDD and Maximum CSI processes of Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE categories 2-8)	TBD	
9.6.1.1_A.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (2 DL CA)	Rel-10	C108	UE supporting E-UTRA FDD and intra-band contiguous DL CA or inter-band DL CA (UE categories 3-8)	TBD	
		Rel-11	C89	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA (UE categories 3-8)	TBD	
9.6.1.1_A.2	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (3 DL CA)	Rel-12	TBD	TBD		
9.6.1.2_A.1	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (2DL CA)	Rel-10	C114	UE supporting E-UTRA TDD and intra-band contiguous DL CA (UE Category $\geq 3$ )	TBD	
9.6.1.2_A.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (3 DL CA)	Rel-12	TBD	TBD		
		Rel-10	C84	UE supporting E-UTRA TDD and inter-band DL CA (UE	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				Category $\geq 3$ )		
		Rel-11	C81	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA (UE Category $\geq 3$ )	TBD	
9.7.1.1	FDD and Half duplex FDD CQI reporting definition under AWGN conditions for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)		
<b>MBMS Performance Testing</b>						
10.1	FDD MBMS performance (Fixed Reference Channel)	Rel-9	C03	UE supporting E-UTRA FDD and MBMS	TBD	
10.2	TDD MBMS performance (Fixed Reference Channel)	Rel-9	C04	UE supporting E-UTRA TDD and MBMS	TBD	

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

C01	IF NOT(A.4.3-4/0) AND A.4.1-1/1 THEN R ELSE N/A
C02	IF NOT(A.4.3-4/0) AND A.4.1-1/2 THEN R ELSE N/A
C03	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A
C04	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A
C05	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A
C06	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A
C07	IF ((NOT(A.4.3-4/0) AND A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A
C08	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A
C09	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A
C10	IF (NOT(A.4.3-4/0) AND 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 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
C12	IF A.4.1-1/2 AND A.4.3-3a/6 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
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
C16	IF (A.4.1-1/2 AND A.4.3-4/1) THEN R ELSE N/A
C17	Void
C18	Void
C19	IF (NOT(A.4.3-4/0) AND (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 (NOT(A.4.3-4/0) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR 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 (NOT(A.4.3-4/0) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND NOT A.4.6.3-2/1) THEN R ELSE N/A
C22	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C23	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.6.3-1/1) THEN R ELSE N/A
C24	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A
C25	IF (NOT(A.4.3-4/0) AND (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 (NOT(A.4.3-4/0) AND (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 (NOT(A.4.3-4/0) AND (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 (NOT(A.4.3-4/0) AND (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 (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.4-3/115) THEN R ELSE N/A
C30	IF (NOT(A.4.3-4/0) AND 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 (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.4-1/1) THEN R ELSE N/A
C33	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.4-1/1) THEN R ELSE N/A
C34	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.2-1/5) THEN R ELSE N/A
C35	IF NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.4-1/1 THEN R ELSE N/A
C36	IF NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.4-1/2 THEN R ELSE N/A
C37	IF NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.4-1/1 THEN R ELSE N/A
C38	IF NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.4-1/2 THEN R ELSE N/A
C39	IF(NOT(A.4.3-4/0) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3b/1) THEN R ELSE N/A
C40	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A
C41	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A
C42	IF ((A.4.1-1/1) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C43	IF (NOT(A.4.3-4/0) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND NOT A.4.6.2-2/1) THEN R ELSE N/A
C44	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.3-7/1) THEN R ELSE N/A
C45	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.3-7/1) THEN R ELSE N/A
C46	Void
C47	Void
C48	Void
C49	Void
C50	IF (A.4.1-1/1 AND A.4.5-1/8 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
C50a	IF (A.4.1-1/1 AND A.4.5-1/8) THEN R ELSE N/A
C51	IF (A.4.1-1/2 AND A.4.5-1/8 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
C51a	IF (A.4.1-1/2 AND A.4.5-1/8) THEN R ELSE N/A
C52	IF (A.4.1-1/1 AND (A.4.5-1/11 OR A.4.5-1/12) 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

C53	IF (A.4.1-1/2 AND (A.4.5-1/11 OR A.4.5-1/12) 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
C54	IF (A.4.1-1/2 AND (A.4.3-4/1 OR A.4.3-4/2)) THEN R ELSE N/A
C55	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.2-1/6) THEN R ELSE N/A
C56	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.2-1/6) THEN R ELSE N/A
C57	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.3-8/2) THEN R ELSE N/A
C58	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.3-8/2) THEN R ELSE N/A
C59	Void
C60	Void
C61	Void
C62	IF (A.4.1-1/2 AND ( A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND A.4.6.1-1/2) THEN R ELSE N/A
C63	IF ((A.4.1-1/1) AND (A.4.6.1-1/1) AND (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
C64	Void
C65	Void
C66	Void
C67	Void
C68	Void
C69	IF ((A.4.1-1/1) AND (A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C70	IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (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
C71	Void
C72	IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C73	IF ((A.4.1-1/2) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C74	IF ((A.4.1-1/2) AND (A.4.6.1-1/2) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C75	IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C76	IF A.4.1-1/1 AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A
C77	IF (A.4.1-1/1 AND A.4.5-2/1 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
C78	IF (A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2 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
C79	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.5-2/1) THEN R ELSE N/A
C80	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2) THEN R ELSE N/A
C81	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.6.2-1/1) AND (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 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A
C82	IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND A.4.6.3-1/1) THEN R ELSE N/A
C83	IF ((A.4.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7) AND (A.4.6.3-1/1)) THEN R ELSE N/A
C84	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.6.3-1/1) THEN R ELSE N/A
C85	Void
C86	Void
C87	IF ((A.4.1-1/1) AND (A.4.6.3-1/1) 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
C88	Void
C89	Void
C90	IF ((A.4.1-1/1) AND (A.4.6.2-1/1) 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
C91	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3/103) THEN R ELSE N/A
C92	IF (NOT(A.4.3-4/0) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3/103) THEN R ELSE N/A
C93	IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C94	Void
C95	IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (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
C96	IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A
C97	IF (A.4.1-1/1 AND A.4.5-1/12) THEN R ELSE N/A
C98	IF (A.4.1-1/2 AND A.4.5-1/11) THEN R ELSE N/A
C99	IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A
C100	IF (NOT(A.4.3-4/0) AND A.4.1-1/1 AND A.4.5-1/13) THEN R ELSE N/A
C101	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 or A.4.6.1-1/2 or A.4.6.3-1/1) 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
C102	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 or A.4.6.1-1/2 or A.4.6.3-1/1) AND (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
C103	IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (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

C104	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 or A.4.6.1-1/2 or A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C105	IF ((A.4.1-1/2) AND (A.4.6.1-1/1 or A.4.6.1-1/2 or A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C106	IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C107	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 or A.4.6.1-1/2 or A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C108	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 or A.4.6.1-1/2 or A.4.6.3-1/1) AND (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
C109	IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A
C110	IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A
C111	IF A.4.1-1/2 AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A
C112	IF A.4.3-5/1 THEN R ELSE N/A
C113	IF NOT(A.4.3-5/1) THEN R ELSE N/A
C114	IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (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 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A
C115	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1) THEN R ELSE N/A
C116	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.6.3-2/1) THEN R ELSE N/A
C117	IF (A.4.1-1/1 AND (A.4.5-1/8 OR A.4.5-1/11 OR A.4.5-1/12) 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
C118	IF (A.4.1-1/2 AND (A.4.5-1/8 OR A.4.5-1/11 OR A.4.5-1/12) 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

Table 4.1-1b: Tested Bands Selection Criteria

Code	Selection	Comment
D01	A.4.3-3	All supported Bands
D02	A.4.3-3 AND FDD	All supported FDD Bands
D03	A.4.3-3 AND TDD	All supported TDD Bands
D04	A.4.3-3 AND {14}	Band 14 if supported
D05	A.4.3-3 AND A.4.5-3	Bands supporting UL MIMO
D06	A.4.3-3 AND NOT A.4.5-3	Bands not supporting UL MIMO
D07	A.4.3-3 AND A.4.5-4	Bands supporting Multicenter PUSCH
D08	A.4.3-3 AND NOT FALLBACK(A.4.6.1-3)	All supported Bands that are not part of contiguous CA configuration.
Note:	<p>Band Selection is based on set theory. For each feature, item number shall correspond to the Band number. The result is the set of bands for which the test shall be conducted. The following operators are used:</p> <p>AND: Set intersection (<math>\cap</math>). {1,2} AND {2,3} = {2}</p> <p>OR: Set union (<math>\cup</math>). {1,2} OR {2,3} = {1,2,3}</p> <p>NOT: Set complement (<math>\setminus</math>), full set being all bands. NOT{1} = {2 ... 64}</p> <p>Also note that this is set without repetitions so {1} AND {1} = {1}</p> <p>The following basic sets are used:</p> <p>FDD: All FDD bands, currently {1...32}</p> <p>TDD: All TDD bands, currently {33...64}</p> <p>{1,2}: Explicitly given band set</p> <p>The following sets derived from pro-forma tables are also used:</p> <p>A.4.X-Y: All bands supporting the feature defined in A.4.X-Y. For A.4.3-3, all supported bands.</p> <p>FALLBACK(A.4.6.X-Y): Fallback bands of supported CA Combinations defined in Table A.4.6.X-Y</p>	

**Table 4.1-1c: Tested CA Configurations Selection Criteria**

Code	Selection	Comment
E01	UL(A.4.6.1-3) AND CARRIER_NO(2)	All supported intra-band contiguous CA Configurations with 2 carriers in both UL and DL
E02	UL(A.4.6.2-3) AND CARRIER_NO(2)	All supported intra-band contiguous non-contiguous CA Configurations with 2 carriers in both UL and DL
E03	UL(A.4.6.3-3) AND CARRIER_NO(2)	All supported inter-band CA Configurations with 2 carriers in both UL and DL
E04	A.4.6.1-3 AND CARRIER_NO(2) AND NOT UL(A.4.6.1-3)	All supported intra-band contiguous CA Configurations with 2 carriers in DL but no CA in UL
E05	A.4.6.2-3 AND CARRIER_NO(2)	All supported intra-band non-contiguous CA Configurations with 2 carriers in DL
E06	A.4.6.3-3 AND CARRIER_NO(2)	All supported inter-band CA Configurations with 2 carriers in DL
E07	((A.4.6.1-3 AND NOT UL(A.4.6.1-3)) OR (A.4.6.2-3 AND NOT UL(A.4.6.2-3)) OR (A.4.6.3-3 AND NOT UL(A.4.6.3-3)) OR (A.4.6.3-4 AND NOT UL(A.4.6.3-4))) AND CARRIER_NO(3)	All supported 3DL CA without UL
E08	E04 AND NOT DL_FALLBACKS	All supported intra-band contiguous CA Configurations with 2 carriers in DL but no CA in UL, that are not fallbacks of 3DL CA
E09	E05 AND NOT DL_FALLBACKS	All supported intra-band non-contiguous CA Configurations with 2 carriers in DL that are not fallbacks of 3DL CA.
E10	E06 AND NOT DL_FALLBACKS	All supported inter-band CA Configurations with 2 carriers in DL that are not fallbacks of 3DL CA
DL_FALLBACKS	FALLBACK(A.4.6.1-3) AND FALLBACK(A.4.6.2-3) AND FALLBACK(A.4.6.3-3) AND FALLBACK(A.4.6.3-4)	All DL Fallbacks of supported CA Configurations
Note:	<p>CA Configuration Selection is based on set theory. Each CA Configuration is designated by its name, including bands and BW classes, eg CA_1A-5A. The following operators are used:</p> <p>AND: Set intersection (<math>\cap</math>). {CA_1C, CA_1A-5A} AND {CA_1C, CA_2A-4A} = CA_1C</p> <p>OR: Set union (<math>\cup</math>). {CA_1C, CA_1A-5A} OR {CA_1C, CA_2A-4A} = {CA_1C, CA_1A-5A, CA_2A-4A}</p> <p>NOT: Set complement (<math>\bar{\phantom{x}}</math>), full set being all possible CA Configurations</p> <p>Also note that this is set without repetitions so {CA_1C} AND {CA_1C} = {CA_1C}</p> <p>The following basic sets are used:</p> <p>FDD: All FDD-only CA Configurations</p> <p>TDD: All TDD-only CA Configurations</p> <p>FDD-TDD: All mixed CA Configurations</p> <p>{CA_1C}: Explicitly given CA Configurations</p> <p>CARRIER_NO(n): All CA Configurations with n Carriers, eg for n=2 CA_1C and CA_1A-5A would be a part of this set</p> <p>BAND_NO(n): All CA Configurations containing n Bands, eg. for n=2, CA_1A-5A and CA_1A-41C are part of this set</p> <p>BWCLASS(x): All CA Configurations containing BW Class x, eg. for x=C, CA_1C and CA_1A-41C are part of this set</p> <p>The following sets derived from pro-forma tables are also used:</p> <p>A.4.6.X-Y: All supported DL CA Combinations defined in table A.4.6.X-Y</p> <p>UL(A.4.6.X-Y): All DL CA Combinations that also support UL CA with any number of carriers &gt;1, as per column 'Supported CA Bandwidth Class(es) in UL' defined in table A.4.6.X-Y.</p> <p>UL_2CC(A.4.6.X-Y): All DL CA Combinations that also support 2 Carrier UL CA, as per column 'Supported CA Bandwidth Class(es) in UL' defined in table A.4.6.X-Y. Note that DL might support a larger number of carriers than UL.</p> <p>UL_3CC(A.4.6.X-Y): All DL CA Combinations that also support 3 Carrier UL CA, as per column 'Supported CA Bandwidth Class(es) in UL' defined in table A.4.6.X-Y</p> <p>FALLBACK(A.4.6.X-Y): Fallback DL CA Combinations of supported CA Combinations defined in Table A.4.6.X-Y</p> <p>FALLBACK_UL(A.4.6.X-Y): Fallback DL and UL CA Combinations of supported CA Combinations defined in Table A.4.6.X-Y. This set only includes Combinations with same CA Capability in UL and DL</p>	

**Table 4.1-2: Default Fallback Bands and Fallback CA Configurations**

CA Configuration	Default Fallback Bands	Default Fallback CA Configurations
CA_XC (2 carrier intra-band contiguous)	X	-
CA_XB (2 carrier intra-band contiguous)	X	-

CA_XA-YA (2 carrier inter.band)	X,Y	-
CA_XA-XA (2 carrier intra-band non-contiguous)	X	-
CA_XD (3 carrier intra-band contiguous)	X	CA_XC
CA_XA-YA-ZA(3 carrier inter.band)	X,Y,Z	CA_XA-YA, CA_XA-ZA, CA_YA-ZA
CA_XC-YA(3 carrier intra-band contiguous + inter-band) <sup>2</sup>	X,Y	CA_XC, CA_XA-YA
CA_XB-YA(3 carrier intra-band contiguous + inter-band) <sup>2</sup>	X,Y	CA_XB, CA_XA-YA
CA_XA-XA-YA(3 carrier intra-band non-contiguous + inter-band) <sup>2</sup>	X,Y	CA_XA-YA, CA_XA-XA
CA_XC-XA(3 carrier intra-band non-contiguous + intra-band contiguous) <sup>2</sup>	X	CA_XC, CA_XA-XA
Note 1: Table used for deriving default fallbacks in sections A.4.6.1,2 and 3		
Note 2: Also applicable for different band orderings (eg. YA-XC)		



## 4.2 RRM conformance test cases

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
<b>E-UTRAN RRC_IDLE State Mobility</b>						
4.2.1	E-UTRAN FDD - FDD cell re-selection intra frequency case	Rel-8	C01	UE supporting E-UTRA FDD		
4.2.2	E-UTRAN TDD - TDD cell re-selection intra frequency case	Rel-8	C02	UE supporting E-UTRA TDD		
4.2.3	E-UTRAN FDD - FDD cell re-selection inter frequency case	Rel-8	C01	UE supporting E-UTRA FDD		
4.2.4	E-UTRAN FDD - TDD cell re-selection inter frequency case	Rel-9	C03	UE supporting E-UTRA FDD and E-UTRA TDD		
4.2.5	E-UTRAN TDD - FDD cell re-selection inter frequency case	Rel-9	C03	UE supporting E-UTRA FDD and E-UTRA TDD		
4.2.6	E-UTRAN TDD - TDD cell re-selection inter frequency case	Rel-8	C02	UE supporting E-UTRA TDD		
4.2.7	E-UTRAN FDD – FDD Inter frequency case in the existence of non-allowed CSG cell	Rel-9	C01	UE supporting E-UTRA FDD		
4.2.8	E-UTRAN TDD – TDD Inter frequency case in the existence of non-allowed CSG cell	Rel-9	C02	UE supporting E-UTRA TDD		
4.2.9	E-UTRAN FDD-FDD intra-frequency Cell Re-selection case for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
4.3.1.1	E-UTRA FDD - UTRAN FDD cell re-selection	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
4.3.1.2	E-UTRA FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD		
4.3.1.3	E-UTRAN FDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA FDD is of lower priority	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD		
4.3.1.4	E-UTRAN FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority for 5MHz bandwidth	Rel-8	C53	UE supporting E-UTRA FDD and only E-UTRA Band 31 and UTRA FDD		
4.3.2	E-UTRAN FDD - UTRAN TDD cell re-selection	Rel-8	C06	UE supporting E-UTRA FDD and UTRA TDD		Rel-9 UTRA TDD
4.3.3	E-UTRAN TDD - UTRAN FDD cell re-selection	Rel-8	C07	UE supporting E-UTRA TDD and UTRA FDD		
4.3.4.1	E-UTRA TDD - UTRAN TDD cell re-selection	Rel-8	C05	UE supporting E-UTRA TDD and UTRA TDD		Rel-9 UTRA TDD
4.3.4.2	E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority	Rel-8	C05	UE supporting E-UTRA TDD and UTRA TDD		Rel-9 UTRA TDD
4.3.4.3	EUTRA TDD-UTRA TDD cell reselection in fading propagation conditions: UTRA TDD is of lower priority	Rel-8	C05	UE supporting E-UTRA TDD and UTRA TDD		Rel-9 UTRA TDD
4.4.1	E-UTRAN FDD - GSM cell re-selection	Rel-8	C08	UE supporting E-UTRA FDD and GSM		
4.4.2	E-UTRAN TDD - GSM cell re-selection	Rel-8	C09	UE supporting E-UTRA TDD and GSM		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
4.5.1.1	E-UTRAN FDD - HRPD Cell re-selection: HRPD is of lower priority	Rel-8	C10	UE supporting E-UTRA FDD and cdma2000 HRPD		
4.5.2.1	E-UTRAN TDD - HRPD Cell Reselection: HRPD is of Lower Priority	Rel-9	C34	UE supporting E-UTRA TDD and cdma2000 HRPD		
4.6.1.1	E-UTRAN FDD - cdma2000 1xRTT Cell re-selection: cdma2000 1x is of lower priority	Rel-8	C11	UE supporting E-UTRA FDD and cdma2000 1xRTT		
4.6.2.1	E-UTRAN TDD-cdma2000 1X Cell Reselection: cdma2000 1X is of Lower Priority	Rel-9	C35	UE supporting E-UTRA TDD and cdma2000 1xRTT		
<b>E-UTRAN RRC_CONNECTED State Mobility</b>						
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
5.1.9	E-UTRAN FDD-FDD Intra frequency handover for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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
5.2.11	E-UTRAN FDD - UTRAN FDD handover for 5MHz Bandwidth	Rel-8	C54	UE supporting E-UTRA FDD and only E-UTRA Band 31 and UTRA FDD and Feature Group Indicators 8 and 22		
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		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	C36	UE supporting E-UTRA TDD and cdma2000 HRPD and Feature Group Indicators 12 and 26.		
5.3.6	E-UTRAN TDD-cdma2000 1X Handover	Rel-9	C37	UE supporting E-UTRA TDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24.		
<b>RRC Connection Mobility Control</b>						
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		
6.1.5	E-UTRAN FDD Intra-frequency RRC Re-establishment for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
6.2.5	E-UTRAN FDD - Contention Based Random Access Test for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
6.2.6	E-UTRAN FDD - Non-Contention Based Random Access Test for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
6.2.7	E-UTRAN FDD - Non-Contention Based Random Access Test For SCell in sTAG	Rel-12	C61	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and multiple timing advances		
6.2.8	E-UTRAN TDD - Non-Contention Based Random Access Test For SCell in sTAG	Rel-12	C62	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
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		
<b>Timing and Signalling Characteristics</b>						



Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
7.1.3	E-UTRAN FDD – UE Transmit Timing Accuracy Tests for SCell	Rel-11	C57	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and Feature Group Indicator 5		
7.1.4	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for SCell	Rel-11	C58	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and Feature Group Indicator 5		
7.1.5	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for 5MHz Bandwidth	Rel-8	C56	UE supporting E-UTRA FDD and only E-UTRA Band 31 and Feature Group Indicator 5		
7.1.6	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for SCell in sTAG	Rel-12	C63	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and multiple timing advances and Feature Group Indicator 5		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
7.1.7	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for SCell in sTAG	Rel-12	C64	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5s		
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		
7.2.3	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy Test for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
7.2.4	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy Test For SCell in sTAG	Rel-12	C61	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and multiple timing advances		
7.2.5	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy Test For SCell in sTAG	Rel-12	C62	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Number of TC Executions	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		
7.3.19	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and Non-MBSFN ABS (feICIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
7.3.20	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and Non-MBSFN ABS (feICIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		
7.3.21	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and MBSFN ABS (feICIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling		
7.3.22	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and MBSFN ABS (feICIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		
7.3.23	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
7.3.24	E-UTRAN FDD Radio Link Monitoring Test for In-sync for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
7.3.25	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX for 5MHz Bandwidth	Rel-8	C56	UE supporting E-UTRA FDD and only E-UTRA Band 31 and Feature Group Indicator 5		
<b>UE Measurements Procedures</b>						

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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					
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.1.8	E-UTRAN FDD-FDD Intra-Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling		
8.1.9	E-UTRAN FDD-FDD intra frequency event triggered reporting under fading propagation conditions in asynchronous cells for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
8.1.10	E-UTRAN FDD-FDD intra frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for 5MHz bandwidth	Rel-8	C56	UE supporting E-UTRA FDD and only E-UTRA Band 31 and Feature Group Indicator 5		
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		
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.		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
8.2.6	E-UTRAN TDD-TDD Intra-Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		
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		



Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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.	
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.		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
8.5.7	E-UTRAN FDD - UTRAN FDD event triggered reporting under fading propagation conditions for 5MHz bandwidth	Rel-8	C55	UE supporting E-UTRA FDD and only E-UTRA Band 31 and UTRA FDD and Feature Group Indicators 15 and 22		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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 event triggered reporting 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
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 Indicators 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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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 and 25		
8.12.1	Void					
8.13.1	Void					
8.14.1	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		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)	
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	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)	
8.16.3	E-UTRAN FDD-FDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)	
8.16.4	E-UTRAN TDD-TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)	
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	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)	
8.16.7	E-UTRA FDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 20 MHz bandwidth	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)	
8.16.8	E-UTRAN TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 20 MHz bandwidth	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)	
8.16.9	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 10MHz+5MHz	Rel-11	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.10	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 10MHz+5MHz	Rel-11	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)	
8.16.11	E-UTRAN FDD event triggered reporting on deactivating SCell with PCell interruption in non-DRX for 10MHz+5MHz	Rel-11	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)	
8.16.12	E-UTRAN TDD event triggered reporting on deactivating SCell with PCell interruption in non-DRX for 10MHz+5MHz	Rel-11	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)	
8.16.13	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 5 MHz+5MHz	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)	
8.16.14	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 5 MHz+5MHz	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)	



Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.15	E-UTRA FDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 5MHz+5MHz bandwidth	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)	
8.16.16	E-UTRA TDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 5MHz+5MHz bandwidth	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)	
8.16.17	E-UTRAN FDD activation and deactivation of known SCell in non-DRX	Rel-10	C32b	UE supporting E-UTRA FDD and CA and Feature Group Indicator 25		
8.16.18	E-UTRAN TDD activation and deactivation of known SCell in non-DRX	Rel-10	C33b	UE supporting E-UTRA TDD and CA and Feature Group Indicator 25		
8.16.21	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 20MHz+10MHz	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)	
8.16.22	E-UTRAN TDD event triggered reporting on deactivating SCell with PCell interruption in non-DRX for 20MHz+10MHz	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Either TC 8.20.2 or TC 8.20.2A or TC 8.20.2B shall be executed. (Note 1)	
8.20.2A	E-UTRAN TDD-TDD Inter-frequency event triggered reporting under fading propagation conditions in synchronous cells for 20 MHz +20 MHz bandwidth	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 8.20.2 or TC 8.20.2A or TC 8.20.2B shall be executed. (Note 1)	
8.20.2B	E-UTRAN TDD-TDD Inter-frequency event triggered reporting under fading propagation conditions in synchronous cells for 20 MHz +10 MHz bandwidth	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 8.20.2 or TC 8.20.2A or TC 8.20.2B shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
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	Either TC 8.20.4 or TC 8.20.4A or TC 8.20.4B shall be executed. (Note 1)	
8.20.4A	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions for 20 MHz + 20 MHz bandwidth	Rel-10	C44	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	Either TC 8.20.4 or TC 8.20.4A or TC 8.20.4B shall be executed. (Note 1)	
8.20.4B	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions for 20 MHz + 10 MHz bandwidth	Rel-10	C44	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	Either TC 8.20.4 or TC 8.20.4A or TC 8.20.4B shall be executed. (Note 1)	
<b>Measurement Performance Requirements</b>						
9.1.1.1	FDD Intra Frequency Absolute RSRP Accuracy	Rel-8 to Rel-11	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16		
9.1.1.1_1	FDD Intra Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.2.1	TDD Intra Frequency Absolute RSRP Accuracy	Rel-8 to Rel-11	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16		
9.1.2.1_1	TDD Intra Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	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 to Rel-11	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25		
9.1.3.1_1	FDD - FDD Inter Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	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 to Rel-11	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25		
9.1.3.2_1	FDD - FDD Inter Frequency Relative Accuracy of RSRP (Rel-12 and forward)	Rel-12	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 to Rel-11	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25		
9.1.4.1_1	TDD - TDD Inter Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	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 to Rel-11	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.4.2_1	TDD - TDD Inter Frequency Relative Accuracy of RSRP (Rel-12 and forward)	Rel-12	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 to Rel-11	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.1.5.1_1	FDD - TDD Inter Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	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 to Rel-11	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.1.5.2_1	FDD - TDD Inter Frequency Relative Accuracy of RSRP (Rel-12 and forward)	Rel-12	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.1.6.1	FDD Absolute RSRP Accuracy E-UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)	
9.1.6.1_1	FDD Absolute RSRP Accuracy E-UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.6.2	FDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)	
9.1.7.1	TDD Absolute RSRP Accuracy E-UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)	
9.1.7.1_1	TDD Absolute RSRP Accuracy E-UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)	
9.1.7.2	TDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)	
9.1.8.1	FDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.8.1_1	FDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		
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		
9.1.9.1	TDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
9.1.9.1_1	TDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	C46	UE supporting E-UTRA TDD 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 and Rel-11 only	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		
9.1.10.1_1	FDD Absolute RSRP under Time-Domain Measurement Resource Restriction with MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.10.2	FDD Relative RSRP under Time-Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		
9.1.11.1	TDD Absolute RSRP under Time-Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
9.1.11.1_1	TDD Absolute RSRP under Time-Domain Measurement Resource Restriction with MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	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		
9.1.12.1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)	
9.1.12.1_1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)	



Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.12.2	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)	
9.1.13.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)	
9.1.13.1_1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)	
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	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)	
9.1.14.1	FDD Intra Frequency Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11 only	C59	UE supporting E-UTRA FDD and CRS interference handling		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.14.1_1	FDD Intra Frequency Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC) (Rel-12 and forward)	Rel-12	C59	UE supporting E-UTRA FDD and CRS interference handling		
9.1.14.2	FDD Intra Frequency Relative RSRP Accuracy under Time-Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling		
9.1.15.1	TDD Intra Frequency Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11 only	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		
9.1.15.1_1	TDD Intra Frequency Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC) (Rel-12 and forward)	Rel-12	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		
9.1.15.2	TDD Intra Frequency Relative RSRP Accuracy under Time-Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.16.1	FDD Intra Frequency Absolute RSRP Accuracy for 5MHz Bandwidth	Rel-8 to Rel-11	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16		
9.1.16.1_1	FDD Intra Frequency Absolute RSRP Accuracy for 5MHz Bandwidth (Rel-12 and forward)	Rel-12	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16		
9.1.16.2	FDD Intra Frequency Relative Accuracy of RSRP for 5MHz Bandwidth	Rel-8	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16		
9.1.17.1	FDD - FDD Inter Frequency Absolute RSRP Accuracy for 5MHz Bandwidth	Rel-8 to Rel-11	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25		
9.1.17.1_1	FDD - FDD Inter Frequency Absolute RSRP Accuracy for 5MHz Bandwidth (Rel-12 and forward)	Rel-12	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25		
9.1.17.2	FDD - FDD Inter Frequency Relative Accuracy of RSRP for 5MHz Bandwidth	Rel-8 to Rel-11	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25		
9.1.17.2_1	FDD - FDD Inter Frequency Relative Accuracy of RSRP for 5MHz Bandwidth (Rel-12 and forward)	Rel-12	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.18.1	FDD Absolute RSRP Accuracy for E-UTRA for Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)	
9.1.18.1_1	FDD Absolute RSRP Accuracy for E-UTRA for Carrier Aggregation for 10MHz + 5MHz (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)	
9.1.18.2	FDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation for 10MHz + 5MHz	Rel-11	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)	
9.1.19.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)	
9.1.19.1_1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.19.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz	Rel-11	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)	
9.1.20.1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)	
9.1.20.1_1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)	
9.1.20.2	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)	
9.1.21.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.21.1	TDD RSRP Accuracy for E-UTRAN Carrier Aggregation for 5MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)	
9.1.21.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)	
9.1.22.1	FDD-TDD Absolute RSRP Accuracy E-UTRA for Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD, EUTRA-TDD and FDD- TDD CA		
9.1.22.2	FDD-TDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD, EUTRA-TDD and FDD- TDD CA		
9.1.23.1	FDD-TDD Absolute RSRP Accuracy E-UTRA for Carrier Aggregation with Pcell in TDD	Rel-12	C67	UE supporting E-UTRA FDD, EUTRA-TDD and FDD- TDD CA		
9.1.23.2	FDD-TDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation with PCell in TDD	Rel-12	C67	UE supporting E-UTRA FDD, EUTRA-TDD and FDD- TDD CA		
9.1.24.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.24.1_1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA		
9.1.24.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)	
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		
9.2.3.1	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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)	
9.2.5.2	FDD Relative RSRQ Accuracy E-UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)	
9.2.6.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)	
9.2.6.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)	



Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.7.1	FDD RSRQ under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		
9.2.8.1	TDD RSRQ under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
9.2.9.1	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		
9.2.11.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)	
9.2.11.2	FDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)	
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	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)	
9.2.13.1	FDD RSRQ Accuracy under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling		
9.2.14.1	TDD RSRQ Accuracy under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling		
9.2.17.1	FDD Intra Frequency Absolute RSRQ Accuracy for 5MHz Bandwidth	Rel-8	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16		
9.2.18.1	FDD - FDD Inter Frequency Absolute RSRQ Accuracy for 5MHz Bandwidth	Rel-8	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.18.2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ for 5MHz Bandwidth	Rel-8	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25		
9.2.19.1	FDD-FDD Inter Frequency absolute WB-RSRQ	Rel-11	C01h	UE supporting E-UTRA FDD and WB-RSRQ measurement and Feature Group Indicators 16 and 25		
9.2.20.1	TDD-TDD Inter Frequency absolute WB-RSRQ	Rel-11	C02h	UE supporting E-UTRA TDD and WB-RSRQ measurement and Feature Group Indicators 16 and 25		
9.2.21.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)	
9.2.21.2	FDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)	
9.2.22.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.22.2	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)	
9.2.23.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)	
9.2.23.2	FDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)	
9.2.24.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)	
9.2.24.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.27.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz+10MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)	
9.2.27.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz+10MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)	
9.3.1	E-UTRAN FDD - UTRA FDD CPICH RSCP 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		
9.3.3	E-UTRAN FDD - UTRA FDD CPICH RSCP absolute accuracy for 5MHz bandwidth	Rel-8	C52	UE supporting E-UTRA FDD and E-UTRA Band 31 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		
9.4.2	E-UTRAN TDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD		
9.4.3	E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy for 5MHz bandwidth	Rel-8	C52	UE supporting E-UTRA FDD and E-UTRA Band 31 and UTRA FDD		
9.5.1	E-UTRAN FDD - UTRA TDD PCCPCH RSCP absolute accuracy	Rel-9	C65	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 39		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.5.2	E-UTRAN TDD - UTRA TDD PCCPCH RSCP absolute accuracy	Rel-9	C66	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 39		
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		
9.9.1.1	FDD Intra Frequency Serving Cell Absolute RSRP Accuracy	Rel-10 and Rel-11 only	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16		
9.9.1.1_1	FDD Intra Frequency Serving Cell Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16		
9.9.1.2	FDD Intra Frequency Serving Cell Absolute RSRQ Accuracy	Rel-10	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16		
9.9.2.1	TDD Intra Frequency Serving Cell Absolute RSRP Accuracy	Rel-10 and Rel-11 only	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16		
9.9.2.1_1	TDD Intra Frequency Serving Cell Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16		
9.9.2.2	TDD Intra Frequency Serving Cell Absolute RSRQ Accuracy	Rel-10	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16		

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
C01h	IF (A.4.1-1/1 AND A.4.4-1/16 AND A.4.4-1/25 AND A.4.5-1/7) 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
C02h	IF (A.4.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25 AND A.4.5-1/7) 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.4.4-1/8 AND A.4.4-1/22) 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.4.4-1/8 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 AND A.4.4-1/25) 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 AND A.4.4-1/25) 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 ELSE 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 ELSE 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
C16	IF (A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3) 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.4.4-1/5 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.4.1-1/1 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.4.1-1/2 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	Void
C32b	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1/25) 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	Void
C33b	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1/25) 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.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/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 NOT 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 NOT A.4.5-1/5) THEN R ELSE N/A
C49	IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A
C50	IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1/16) THEN R ELSE N/A
C51	IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A
C52	IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A
C53	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3) THEN R ELSE N/A
C54	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A
C55	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A
C56	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.4-1/5) THEN R ELSE N/A
C57	IF (A.4.1-1/1 AND ((A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-2/1 OR A.4.6.1-2/2)) AND A.4.4-1/5) THEN R ELSE N/A
C58	IF (A.4.1-1/2 AND ((A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-2/1 OR A.4.6.1-2/2)) AND A.4.4-1/5) THEN R ELSE N/A
C59	IF (A.4.1-1/1 AND A.4.5-2/1) THEN R ELSE N/A
C60	IF (A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2) THEN R ELSE N/A
C61	IF (A.4.1-1/1 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3) THEN R ELSE N/A
C62	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3) THEN R ELSE N/A
C63	IF (A.4.1-1/1 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.4-1/5) THEN R ELSE N/A
C64	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.4-1/5) THEN R ELSE N/A
C65	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-2/39) THEN R ELSE N/A
C66	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-2/39) THEN R ELSE N/A
C67	IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/7)



**Table 4.2-1b: Number of TC Executions - Notes**

Note 1: The Carrier Aggregation TCs verify the same core requirement(s) however with different channel bandwidth configurations, this according to the guidance in TS 36.521-3, Annex C.3.3 [2].
--

---

## 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.

### A.2.1 Date of the statement

.....

### A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

Software configuration:

.....  
.....  
.....

### A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

### A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

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

### 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	
6	EPDCCH	36.306 subclause 4.3.4.18	Rel-11	
7	FDD – TDD CA	36.306 subclause 4.3.4.28	Rel-12	

## 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, 36.302	Rel-8	

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

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

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 Band 16
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
29	Frequency band: N/A, 717-728 MHz	36.101, 5.5	Rel-11	FDD Band 29
30	Frequency band: 2305-2315, 2350-2360 MHz	36.101, 5.5	Rel-12	FDD Band 30
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	Rel-12	FDD Band 31
32	Frequency band: N/A, 1452-1496 MHz	36.101, 5.5	Rel-12	FDD Band 32

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
38	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
40	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
<p>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]</p>				

**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, 31, 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, 31, 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 except band 31
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, 23, 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, 23, 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: UE Category**

Item	UE Category	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
9	Category 9	36.306, 4.1	Rel-11	
10	Category 10	36.306, 4.1	Rel-11	
11	Category 11	36.306, 4.1	Rel-11	
12	Category 12	36.306, 4.1	Rel-11	

**Table A.4.3-4a: UE Downlink Category**

Item	UE Category	Ref.	Release	Comments
1	Category DL 0	36.306, 4.1A	Rel-12	
2	Category DL 6	36.306, 4.1A	Rel-12	
3	Category DL 7	36.306, 4.1A	Rel-12	
4	Category DL 9	36.306, 4.1A	Rel-12	
5	Category DL 10	36.306, 4.1A	Rel-12	
6	Category DL 11	36.306, 4.1A	Rel-12	
7	Category DL 12	36.306, 4.1A	Rel-12	
8	Category DL 13	36.306, 4.1A	Rel-12	
9	Category DL 14	36.306, 4.1A	Rel-12	

**Table A.4.3-4b: UE Uplink Category**

Item	UE Category	Ref.	Release	Comments
1	Category UL 0	36.306, 4.1A	Rel-12	Only in combination with Category DL 0
2	Category UL 3	36.306, 4.1A	Rel-12	Only in combination with DL Category 13
3	Category UL 5	36.306, 4.1A	Rel-12	Only in combination with DL Category 6, DL Category 9, DL Category 11 or DL Category 13
4	Category UL 7	36.306, 4.1A	Rel-12	Only in combination with Category DL 13
5	Category UL 8	36.306, 4.1A	Rel-12	Only in combination with Category DL 14
6	Category UL 13	36.306, 4.1A	Rel-12	Only in combination with Category DL 7, Category DL 10, Category DL 12 or Category DL 13

**Table A.4.3-5: Void****Table A.4.3-6: Void****Table A.4.3-7: Additional capabilities**

Item	Additional capabilities	Ref.	Release	Comments
1	Enhanced performance requirements type A for LTE	36.101, Clause 8	Rel-11	Support for Enhanced performance requirements type A
2	Support of Type B Half-duplex FDD operation	36.211, 6,2,5 36.306, 4.2.6	Rel-12	Support of Half-duplex FDD operation type B for category 0 UE

**Table A.4.3-8: Void**

## 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 [15] 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 36.331 [14], clause B.1).

Note 1: From Rel-11 onwards 3GPP TSG RAN has discontinued the usage of FGI bits. Instead it has introduced a different mechanism to accomplish the same purposes based on the principles described in TS 36.306 [17] clause 4. This new principles where applicable have been catered for in section A.4.5, e.g. Table A.4.5-2.

**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 corresponding release	Release	Ref.	Mnemonic	Comments
1	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) - 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	pc_FeatrGrp_1	Corresponding to the Index of Indicator, the leftmost binary bit 1. 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
2	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.
3	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 group.
	Support of - 5bit RLC UM SN	- can only be set to 1 if the UE has set	Yes, if UE supports VoLTE	Rel-9, Rel-10			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	- 7bit PDCP SN	bit number 7 to 1.	Yes, if UE supports VoLTE.  Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
4	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.
5	Support of - Long DRX cycle - DRX command MAC control element		Yes	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_5	Corresponding to the Index of Indicator, the leftmost binary bit 5. Set to true if supporting all functionalities in the feature group.
6	Support of - Prioritized bit rate		Yes	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_6	Corresponding to the Index of Indicator, the leftmost binary bit 6. 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
7	Support of - RLC UM	- can only be set to 0 if the UE does not support voice		Rel-8	36.331, Annex B.1	pc_FeatrGrp_7	Corresponding to the Index of Indicator, the leftmost binary bit 7. Set to true if supporting all functionalities in the feature group.
			Yes, if UE supports VoLTE	Rel-9			
			Yes, if UE supports VoLTE.  Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover	- can only be set to 1 if the UE has set bit number 22 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_8	Corresponding to the Index of Indicator, the leftmost binary bit 8. Set to true if supporting all functionalities in the feature group.
	Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH PS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD  - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD		Yes, if UE supports UTRA	Rel-9			
9	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC		Rel-8 to Rel-10	36.331, Annex B.1	pc_FeatrGrp_9	Corresponding to the Index of Indicator, the leftmost binary bit 9.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
		- can only be set to 1 if the UE has set bit number 23 to 1	Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			Set to true if supporting all functionalities in the feature group.
10	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.
11	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.
12	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.
13	Support of	- can only be set to 1 if the		Rel-8	36.331, Annex B.1	pc_FeatrGrp_13	Corresponding to the Index of Indicator, the

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	- Inter-frequency handover (within FDD or TDD)	UE has set bit number 25 to 1	Yes, unless UE only supports band 13	Rel-9			leftmost binary bit 13. Set to true if supporting all functionalities in the feature group.
14	Support of - Measurement reporting event: Event A4 - Neighbour > threshold - Measurement reporting event: Event A5 - Serving < threshold1 & Neighbour > threshold2		Yes	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_14	Corresponding to the Index of Indicator, the leftmost binary bit 14.  Set to true if supporting all functionalities in the feature group.
15	Support of - Measurement reporting event: Event B1 - Neighbour > threshold for	- can only be set to 1 if the		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15	Corresponding to the Index of Indicator, the



Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	<p>UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1</p> <p>- Measurement reporting event: Event B1 - Neighbour &gt; 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</p> <p>- Measurement reporting event: Event B1 - Neighbour &gt; threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively</p>	<p>UE has set at least one of the bit number 22, 23, 24, 26 or 39 to 1.</p> <p>- 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</p>	<p>Yes for FDD, if UE supports only UTRAN FDD and does not support UTRAN TDD or GERAN or 1xRTT or HRPD</p>	Rel-9			<p>leftmost binary bit 15.</p> <p>Set to true if supporting all functionalities in the feature group.</p>
16	<p>Support of</p> <p>- non-ANR related intra-frequency periodical measurement reporting;</p> <p>- non-ANR related inter-frequency periodical measurement reporting, if</p>			Rel-8	36.331, Annex B.1	pc_FeatrGrp_16	<p>Corresponding to the Index of Indicator, the leftmost binary bit 16.</p> <p>Set to true if supporting all</p>

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	<p>the UE has set bit number 25 to 1; and</p> <p>- 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.</p> <p>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> &gt; 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.</p>		Yes	Rel-9			functionalities in the feature group.
17	<p>Support of</p> <p>Intra-frequency ANR features including:</p> <p>- Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i></p> <p>- Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i></p>	- 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_17	Corresponding to the Index of Indicator, the leftmost binary bit 17. Set to true if supporting all functionalities in the feature group.
			Yes	Rel-9			
18	<p>Support of</p> <p>Inter-frequency ANR features including:</p> <p>- 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></p> <p>- Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i></p>	- 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 group.
			Yes, unless UE only supports band 13	Rel-9			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
19	<p>Support of Inter-RAT ANR features including:</p> <ul style="list-style-type: none"> <li>- Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, if the UE has set bit number 23 to 1</li> <li>- Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively</li> <li>- Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively</li> </ul>	<p>- 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.</p>		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19	<p>Corresponding to the Index of Indicator, the leftmost binary bit 19. Set to true if supporting all functionalities in the feature group.</p>
20	<p>If bit number 7 is set to "0":</p> <ul style="list-style-type: none"> <li>- SRB1 and SRB2 for DCCH + 8x AM DRB</li> </ul> <p>If bit number 7 is set to "1":</p> <ul style="list-style-type: none"> <li>- SRB1 and SRB2 for DCCH + 8x AM DRB</li> </ul>	<p>- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and</p>		Rel-8	36.331, Annex B.1	pc_FeatrGrp_20	<p>Corresponding to the Index of Indicator, the leftmost binary bit 20. Set to true if supporting all functionalities in the feature group.</p>

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	<p>- SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB</p> <p>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.</p>	<p>SRB2 for DCCH + 4x AM DRB</p> <p>- 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</p>	Yes	Rel-9			
21	<p>Support of</p> <p>- Predefined intra- and inter-subframe frequency hopping for PUSCH with <math>N_{sb} &gt; 1</math></p> <p>- Predefined inter-subframe frequency hopping for PUSCH with <math>N_{sb} &gt; 1</math></p>			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.
22	Support of			Rel-8	36.331, Annex B.1	pc_FeatrGrp_22	Corresponding to the Index of Indicator, the

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	- UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		Yes, if UE supports UTRA	Rel-9			leftmost binary bit 22. Set to true if supporting all functionalities in the feature group.
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_23	Corresponding to the Index of Indicator, the leftmost binary bit 23. Set to true if supporting all functionalities in the feature group.
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_24	Corresponding to the Index of Indicator, the leftmost binary bit 24. Set to true if supporting all functionalities in the feature group.
			Yes, if UE supports enhanced 1xRTT CSFB	Rel-9			
25	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode  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.			Rel-8	36.331, Annex B.1	pc_FeatrGrp_25	Corresponding to the Index of Indicator, the leftmost binary bit 25. Set to true if supporting all functionalities in the feature group.
			Yes, unless UE only supports band 13	Rel-9			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
26	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. Set to true if supporting all functionalities in the feature group.
			Yes, if UE supports HRPD	Rel-9			
27	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		Rel-8	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.
			Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-9			
28	Support of - TTI bundling		Yes for FDD	Rel-9	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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
29	Support of - Semi-Persistent Scheduling			Rel-9	36.331, Annex B.1	pc_FeatGrp_29	Corresponding to the Index of Indicator, the leftmost binary bit 29. Set to true if supporting all functionalities in the feature group.
30	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_FeatGrp_30	Corresponding to the Index of Indicator, the leftmost binary bit 30. 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
31	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.
				Rel-9			
				Rel-10			
32	Undefined		Yes	Rel-8	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 32.



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 <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i>	- 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 <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i>	- 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 <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i>	- 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 <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i>	- 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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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 at least one of the bit number 22 (for UEs supporting only UTRA TDD) or the 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.  Set to true if supporting all functionalities in the feature group.
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.  Set to true if supporting all functionalities in the feature group.
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.  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
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.  Set to true if supporting all functionalities in the feature group.
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.  Set to true if supporting all functionalities in the feature group.
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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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.
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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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	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.  - A Category 0 UE shall set this bit to 0 if it does not support this feature.		Rel-10  Rel-12	36.331, Annex C.1	pc_FeatGrp_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_FeatGrp_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_FeatGrp_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_FeatGrp_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_FeatGrp_105	Corresponding to the Index of Indicator, the leftmost binary bit 105. 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
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 <i>tm9-With-8Tx-FDD-r10</i> is set to "supported") and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatGrp_106	Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group.
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_FeatGrp_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 <i>tm9-With-8Tx-FDD-r10</i> is set to "supported") and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatGrp_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 <i>tm9-With-8Tx-FDD-r10</i> is set to "supported").		Rel-10	36.331, Annex C.1	pc_FeatGrp_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 <i>tm9-With-8Tx-FDD-r10</i> is set to "supported").		Rel-10	36.331, Annex C.1	pc_FeatGrp_110	Corresponding to the Index of Indicator, the leftmost binary bit 110. 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
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.
113	- Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells  NOTE: X = number of supported component carriers in a given band combination	- this bit can be set to 1 only if the UE supports carrier aggregation in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_113	Corresponding to the Index of Indicator, the leftmost binary bit 113. 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	- this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in 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.



Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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.
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 UE radio access capabilities**

Item	Additional capabilities	Ref.	Release	Comments
1	Support of CSG	36.331, Annex B.2	Rel-8	
2	Support of intra-frequency SI acquisition for HO	36.306, 4.3.11.1	Rel-9	
3	Support of inter-frequency SI acquisition for HO	36.306, 4.3.11.2	Rel-9	
4	Need for inter-frequency gaps (Note 1)	36.306, 4.3.6.1	Rel-8	
5	Need for inter-RAT gaps (Note 1)	36.306, 4.3.6.1	Rel-8	
6	Support of E-UTRA Band 31 only	36.133, A.3.7.2	Rel-12	
7	Support of rsrqMeasWideband	36.306, 4.3.6.2	Rel-11	
8	Support of Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10	36.306, 4.3.5.5	Rel-11	
9	Void			
10	Disable E-UTRA capability if IMSVoIP not supported by the network	23.221 7.2a, 24.301 4.5	Rel-8	pc_Disable_E-UTRA_NOIMSVoIP
11	Support of Maximum CSI processes of Three on a component carrier within a band with PDSCH transmission mode 10	36.306, 4.3.5.5	Rel-11	
12	Support of Maximum CSI processes of Four on a component carrier within a band with PDSCH transmission mode 10	36.306, 4.3.5.5	Rel-11	
13	Support of multiClusterPUSCH-WithinCC-r10	36.306, 4.3.4.13	Rel-10	
Note 1: Need for inter-frequency gaps or inter-RAT gaps indicates that the UE does not support corresponding measurement without gaps.				

**Table A.4.5-2: Additional UE radio access capabilities (Mandatory for Rel-11 and onward)**

Item	Additional capabilities	Ref.	Release	Status (Note 1)	Support (Note 2)	Comments
1	UE supports CRS interference handling	36.306, 4.3.4.15	Rel-11	O.01		This is a Rel-11 Mandatory feature
2	UE supports ss-CCH interference handling	36.306, 4.3.4.20	Rel-11	O.01		This is a Rel-11 Mandatory feature
<p>Note 1: From Rel-11 onwards 3GPP TSG RAN has discontinued the usage of FGI bits (see A.4.4). Instead it has introduced a different mechanism to accomplish the same purposes based on the following principles (TS 36.306 [17] clause 4): 'For optional features, the UE radio access capability parameter indicates whether the feature has been implemented and successfully tested. For mandatory features with the UE radio access capability parameter, the parameter indicates whether the feature has been successfully tested.'</p> <p>Reflecting this situation, in the present table the status for Mandatory features would be indicated as conditional Optional (O.xx) until IOT testing availability is ensured. The decision when IOT testing availability can be considered ensured is made by 3GPP TSG RAN. After the 3GPP TSG RAN decision that IOT testing is available, the status of the capability parameter will be changed to Mandatory (M) and the release from which this requirement apply would be explicitly stated.</p> <p>Note 2: If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release.</p>						

**Table A.4.5-2a: Additional UE radio access capabilities Conditions**

O.01	IF The feature has been IOT-ed THEN Support shall be indicated ELSE Support shall not be indicated
------	--

Table A.4.5-3: UL MIMO Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	FDD Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	FDD Band 4
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	FDD Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	FDD Band 6
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	FDD Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	FDD Band 9
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	FDD Band 10
11	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	FDD Band 11
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	FDD Band 12
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	FDD Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
15	Reserved	36.101, 5.5	FDD Band 15
16	Reserved	36.101, 5.5	FDD Band 16
17	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	FDD Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	FDD Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	FDD Band 19
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	FDD Band 21
22	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	FDD Band 22
23	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	FDD Band 23
24	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	FDD Band 24
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	FDD Band 25
26	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
27	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	FDD Band 27
28	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
29	Frequency band: N/A, 717-728 MHz	36.101, 5.5	FDD Band 29
30	Frequency band: 2305-2315, 2350-2360 MHz	36.101, 5.5	FDD Band 30
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31
...			

33	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	TDD Band 33
34	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	TDD Band 34
35	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	TDD Band 35
36	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	TDD Band 36
37	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	TDD Band 37
38	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	TDD Band 38
39	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	TDD Band 39
40	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	TDD Band 40
41	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	TDD Band 41
42	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	TDD Band 42
43	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	TDD Band 43
44	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	TDD Band 44

**Table A.4.5-4: nonContiguousUL-RA-WithinCC-Info-r10 Capabilities  
(required for MultiClusterPUSCH-WithinCC-r10)**

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	FDD Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	FDD Band 4
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	FDD Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	FDD Band 6
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	FDD Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	FDD Band 9
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	FDD Band 10
11	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	FDD Band 11
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	FDD Band 12
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	FDD Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
15	Reserved	36.101, 5.5	FDD Band 15
16	Reserved	36.101, 5.5	FDD Band 16
17	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	FDD Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	FDD Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	FDD Band 19
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	FDD Band 21
22	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	FDD Band 22
23	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	FDD Band 23
24	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	FDD Band 24
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	FDD Band 25
26	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
27	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	FDD Band 27
28	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
29	Frequency band: N/A, 717-728 MHz	36.101, 5.5	FDD Band 29
30	Frequency band: 2305-2315, 2350-2360 MHz	36.101, 5.5	FDD Band 30
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31

...			
33	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	TDD Band 33
34	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	TDD Band 34
35	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	TDD Band 35
36	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	TDD Band 36
37	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	TDD Band 37
38	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	TDD Band 38
39	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	TDD Band 39
40	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	TDD Band 40
41	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	TDD Band 41
42	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	TDD Band 42
43	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	TDD Band 43
44	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	TDD Band 44

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

**Table A.4.6-1: Downlink CA capabilities (for one or more of the supported CA configurations in Tables A.4.6.1-3, A.4.6.2-3, A.4.6.3-3, A.4.6.3-4 )**

Item	Bandwidth Class	Ref.	Comments
1	DL CA with 2 carriers	36.101, 5.6A 36.331, 6.3.6	
2	DL CA with 3 carriers	36.101, 5.6A 36.331, 6.3.6	

**Table A.4.6-2: Uplink CA capabilities (for one or more of the supported CA configurations in Tables A.4.6.1-3, A.4.6.2-3, A.4.6.3-3, A.4.6.3-4 )**

Item	Bandwidth Class	Ref.	Comments
1	UL CA with 2 carriers	36.101, 5.6A 36.331, 6.3.6	
2	UL CA with 3 carriers	36.101, 5.6A 36.331, 6.3.6	Not used in any valid CA configurations in TS 36.101 yet

### 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.	Comments
1	DL Intra-band contiguous CA BW Class B	36.101, 5.6A 36.331, 6.3.6	
2	DL Intra-band contiguous CA BW Class C	36.101, 5.6A 36.331, 6.3.6	

**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.	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	

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

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)
CA_1C	Rel-10				-	-
CA_2C	Rel-12				-	-
CA_3C	Re-12				-	-
CA_7C	Rel-11				-	-
CA_12B	Rel-12				-	-
CA_23B	Rel-12				-	-
CA_27B	Rel-12				-	-
CA_38C	Rel-11				-	-
CA_39C	Rel-12				-	-
CA_40C	Rel-10				-	-
CA_40D	Rel-12				-	-
CA_41C	Rel-11				-	-
CA_41D	Rel-12				-	-
CA_42C	Rel-12				-	-



Note 1:	Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-1, e.g. "CA_1C" indicates CA operation on E-UTRA band 1 with DL CA Bandwidth Class C.
Note 2:	The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-1. For this release of specification valid choices are "N", "XB" and "XC", where X is the band. For example, for CA_1C, N would mean only DL CA, "1C" would mean both DL and UL CA.
Note 3:	The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-1.
Note 4:	Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
Note 5:	Fallback Bands Exceptions column is used for the FALLBACK() operator in 'Tested Band Selection Criteria' (Table 4.1-1b). FALLBACK(A.4.6.1-3) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions: Band is not listed in the Fallback Band Exceptions for the considered CA Configuration Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration
Note 6:	Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in 'Tested CA Configurations Criteria' (Table 4.1-1c). FALLBACK(A.4.6.1-3) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions: Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions' Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets. FALLBACK_UL(A.4.6.1-3) shall return FALLBACK(A.4.6.1-3) AND UL(A.4.6.1-3)
Note 7:	UL(A.4.6.1-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'. UL_2CC(A.4.6.1-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'. UL_3CC(A.4.6.1-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
Note 8:	The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception

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

**Table A.4.6.2-1: Downlink Intra-band non-contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.2-3)**

Item	Bandwidth Class	Ref.	Comments
1	DL Intra-band non-contiguous CA BW Class Combination A-A	36.101, 5.6A 36.331, 6.3.6	

**Table A.4.6.2-2: Uplink Intra-band non-contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.2-3)**

Item	Bandwidth Class	Ref.	Comments
1	UL Intra-band non-contiguous CA BW Class Combination A-A	36.101, 5.6A 36.331, 6.3.6	

**Table A.4.6.2-3: Supported CA configurations for Intra-band non-contiguous CA**

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)
CA_2A-2A	Rel-12				-	-

CA_3A-3A	Rel-12				-	-
CA_4A-4A	Rel-12				-	-
CA_7A-7A	Rel-12				-	-
CA_23A-23A	Rel-12				-	-
CA_25A-25A	Rel-11				-	-
CA_41A-41A	Rel-11				-	-
CA_41A-41C	Rel-12				-	-
CA_41C-41A	Rel-12				-	-
CA_42A-42A	Rel-12				-	-

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-3, e.g. "CA\_2A-2A" indicates CA intra-band non-contiguous operation on E-UTRA band 2 with DL CA Bandwidth Class A-A.

Note 2: The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-3. For this release of specification valid choices are "N", "XA-XA" and "XC", where X is the band. For example, for CA\_4A-4A, "N" would mean only DL CA, "4A-4A" would mean both DL and UL CA.

Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-3.

Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6

Note 5: Fallback Bands Exceptions column is used for the FALLBACK() operator in 'Tested Band Selection Criteria' (Table 4.1-1b). FALLBACK(A.4.6.2-3) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions:

1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
2. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration

Note 6: Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK\_UL() operators in 'Tested CA Configurations Criteria' (Table 4.1-1c). FALLBACK(A.4.6.2-3) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions:

1. Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions'
2. Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.

Note 7: UL(A.4.6.2-3) shall return all supported CA Configurations where at least one >1 Carrier UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'.  
UL\_2CC(A.4.6.2-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'.  
UL\_3CC(A.4.6.2-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.

Note 8: The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA\_18A-28A uses only a part of B28, so 28 will be listed as an exception

### 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	Ref.	Comments
1	DL Inter-band CA BW Class Combination A-A	36.101, 5.6A 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	Ref.	Comments
1	UL Inter-band CA BW Class Combination A-A	36.101, 5.6A 36.331, 6.3.6	

Table A.4.6.3-3: Supported CA configurations for Inter-band CA (two bands)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported UL Bands (Note 9)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5)	Fallback CA configurations Exceptions (Note 6)
CA_1A-3A	Rel-12					-	-
CA_1A-5A	Rel-10					-	-
CA_1A-7A	Rel-12					-	-
CA_1A-8A	Rel-12					-	-
CA_1A-11A	Rel-12					-	-
CA_1A-18A	Rel-11					-	-
CA_1A-19A	Rel-11					-	-
CA_1A-20A	Rel-12					-	-
CA_1A-21A	Rel-11					-	-
CA_1A-26A	Rel-12					-	-
CA_1A-28A	Rel-12					-	-
CA_1A-41A	Rel-12					-	-
CA_1A-41C	Rel-12					-	-
CA_1A-42A	Rel-12					-	-
CA_1A-42C	Rel-12					-	-
CA_2A-4A	Rel-12					-	-
CA_2A-4A-4A	Rel-12					-	-
CA_2A-2A-13A	Rel-12					-	-
CA_2A-5A	Rel-12					-	-
CA_2A-2A-5A	Rel-12					-	-
CA_2A-12A	Rel-12					-	-
CA_2A-12B	Rel-12					-	-
CA_2A-13A	Rel-12					-	-
CA_2A-2A-13A	Rel-12					-	-
CA_2A-17A	Rel-11					-	-
CA_2A-29A	Rel-11					-	-
CA_2C-29A	Rel-12					-	-
CA_2A-30A	Rel-12					-	-
CA_3A-5A	Rel-11					-	-
CA_3A-7A	Rel-11					-	-

CA_3A-7C	Rel-12					-	-
CA_3C-7A	Rel-12					-	-
CA_3A-8A	Rel-11					-	-
CA_3A-19A	Rel-12					-	-
CA_3A-20A	Rel-11					-	-
CA_3A-26A	Rel-12					-	-
CA_3A-27A	Rel-12					-	-
CA_3A-28A	Rel-12					-	-
CA_3A-42A	Rel-12					-	-
CA_3A-42C	Rel-12					-	-
CA_4A-5A	Rel-11					-	-
CA_4A-4A-5A	Rel-12					-	-
CA_4A-7A	Rel-11					-	-
CA_4A-4A-7A	Rel-12					-	-
CA_4A-12A	Rel-11					-	-
CA_4A-4A-12A	Rel-12					-	-
CA_4A-12B	Rel-12					-	-
CA_4A-13A	Rel-11					-	-
CA_4A-4A-13A	Rel-12					-	-
CA_4A-17A	Rel-11					-	-
CA_4A-27A	Rel-12					-	-
CA_4A-29A	Rel-11					-	-
CA_4A-30A	Rel-12					-	-
CA_5A-7A	Rel-12					-	-
CA_5A-12A	Rel-11					-	-
CA_5A-13A	Rel-12					-	-
CA_5A-17A	Rel-11					-	-
CA_5A-25A	Rel-12					-	-
CA_5A-30A	Rel-12					-	-
CA_7A-8A	Rel-12					-	-
CA_7A-12A	Rel-12					-	-
CA_7A-20A	Rel-11					-	-
CA_7A-28A	Rel-12					-	-

CA_8A-11A	Rel-12					-	-
CA_8A-20A	Rel-11					-	-
CA_11A-18A	Rel-11					-	-
CA_12A-25A	Rel-12					-	-
CA_12A-30A	Rel-12					-	-
CA_18A-28A	Rel-12					28	-
CA_19A-21A	Rel-12					-	-
CA_19A-42A	Rel-12					-	-
CA_19A-42C	Rel-12					-	-
CA_20A-32A	Rel-12					-	-
CA_23A-29A	Rel-12					-	-
CA_26A-41A	Rel-12					-	-
CA_26A-41C	Rel-12					-	-
CA_29A-30A	Rel-12					-	-
CA_39A-41A	Rel-12					-	-
CA_39A-41C	Rel-12					-	-
CA_41A-42A	Rel-12					-	-

Note 1:	Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2, e.g. "CA_1A-3A" indicates interband CA operation on E-UTRA band 1 with DL CA Bandwidth Class A and on E-UTRA band 3 with DL CA Bandwidth Class A
Note 2:	The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-2. For this release of specification valid choices are "N", "XA-XA" and "XC", where X is the band. For example, for full UL CA support in CA_18A-28A, UE shall indicate 18A-28A. For no UL CA "N".
Note 3:	The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2.
Note 4:	Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
Note 5:	Fallback Bands Exceptions column is used for the FALLBACK() operator in 'Tested Band Selection Criteria' (Table 4.1-1b). FALLBACK(A.4.6.3-3) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions: <ol style="list-style-type: none"> <li>1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration</li> <li>2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column</li> <li>3. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration</li> </ol>
Note 6:	Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in 'Tested CA Configurations Criteria' (Table 4.1-1c). FALLBACK(A.4.6.3-3) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions: <ol style="list-style-type: none"> <li>1. Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions'</li> <li>2. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column</li> <li>3. Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.</li> </ol> FALLBACK_UL(A.4.6.3-3) shall return FALLBACK(A.4.6.3-3) AND UL(A.4.6.3-3)
Note 7:	UL(A.4.6.3-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'. UL_2CC(A.4.6.3-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'. UL_3CC(A.4.6.3-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
Note 8:	The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception
Note 9:	List all the CA Combination bands where UL is supported

**Table A.4.6.3-4: Supported CA configurations for Inter-band CA (three bands)**

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported UL Bands (Note 9)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)
CA_1A-3A-5A	Rel-12					-	-
CA_1A-3A-8A	Rel-12					-	-
CA_1A-3A-19A	Rel-12					-	-
CA_1A-3A-20A	Rel-12					-	-
CA_1A-3A-26A	Rel-12					-	-
CA_1A-5A-7A	Rel-12					-	-
CA_1A-7A-20A	Rel-12					-	-
CA_1A-18A-28A	Rel-12					28	1A-28A

CA_1A-19A-21A	Rel-12					-	-
CA_2A-4A-5A	Rel-12					-	-
CA_2A-4A-12A	Rel-12					-	-
CA_2A-4A-13A	Rel-12					-	-
CA_2A-4A-29A	Rel-12					-	-
CA_2A-5A-12A	Rel-12					-	-
CA_2A-5A-13A	Rel-12					-	-
CA_2A-5A-30A	Rel-12					-	-
CA_2A-12A-30A	Rel-12					-	-
CA_2A-29A-30A	Rel-12					-	-
CA_3A-7A-20A	Rel-12					-	-
CA_4A-5A-12A	Rel-12					-	-
CA_4A-5A-13A	Rel-12					-	-
CA_4A-5A-30A	Rel-12					-	-
CA_4A-7A-12A	Rel-12					-	-
CA_4A-12A-30A	Rel-12					-	-
CA_4A-29A-30A	Rel-12					-	-
CA_7A-8A-20A	Rel-12					-	-

Note 1:	Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2a, e.g. "CA_1A-3A-19A" indicates CA operation on E-UTRA bands 1, 3 and 19, each with CA Bandwidth class A.
Note 2:	The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-2a. The UE shall also indicate in which bands is UL supported. For this release of specification valid choices are "N", "XA-YA" etc, where X,Y,Z are the bands. For example, for UL support in B1+B3, and B3+B19, for CA_1A-3A-19A, UE shall indicate "1A-3A","3A-19A",
Note 3:	The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2a.
Note 4:	Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
Note 5:	Fallback Bands Exceptions column is used for the FALLBACK() operator in 'Tested Band Selection Criteria' (Table 4.1-1b). FALLBACK(A.4.6.3-4) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions: <ol style="list-style-type: none"> <li>1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration</li> <li>2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column</li> <li>3. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration</li> </ol>
Note 6:	Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in 'Tested CA Configurations Criteria' (Table 4.1-1c). FALLBACK(A.4.6.3-4) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions: <ol style="list-style-type: none"> <li>1. Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions'</li> <li>2. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column</li> <li>3. Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.</li> </ol>
Note 7:	UL(A.4.6.3-4) shall return all supported CA Configurations where at least one >1 Carrier UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL' UL_2CC(A.4.6.3-4) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column 'Supported CA Bandwidth Class(es) in UL'. UL_3CC(A.4.6.3-4) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
Note 8:	The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception
Note 9:	List all the CA Combination bands where UL is supported



## Annex B (informative): Change history

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2008-03					Skeleton proposed for RAN5#38 Malaga		0.0.1
2008-06					Updated after RAN5#39bis: - Editorial update and alignment with 36.523-2 - TC included in 36.521-1 and 36.521-3 included - Some Conditions for TC selections introduce	0.0.1	0.1.0
2008-08					Updated after RAN5#40: - Editorial update in regard to changing spec names, etc. - FDD and TDD split (R5-083839) - RRM TC numbers aligned with 36.521-3 v030	0.1.1	0.2.0
2008-10					Update after RAN5#40bis: - Table split in different clauses for Conformance and RRM 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	0.2.0	0.3.0
2008-11					Update After RAN5#41 (R5-055360): - Renamed 8.1.1, added new 8.1.2, - Added new TCs to RRM section Measurement 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	0.3.0	2.0.0
2008-12	RAN#42	RP-080970			Approval of version 2.0.0 at RAN#42, then put to version 8.0.0.	2.0.0	8.0.0
2008-01					Editorial corrections.	8.0.0	8.0.1
2009-05	RAN#44	RP-090448	0001		CR to 36.521-2: Applicability changes and additions for RRM test cases	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
2009-09	RAN#45	R5-094035	0003	-	Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests	8.1.0	8.2.0
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 changes to introduce additional RRM tests	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	8.1.0	8.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
					Demodulation tests		
2009-12	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	8.2.0	8.3.0
2009-12	RAN#46	R5-095778	0009		Update of RRM Conformance test applicability for RLM in DRX test cases	8.2.0	8.3.0
2009-12	RAN#46	R5-095841	0010	-	CR to 36.521-2: Applicability additions for new RRM (FDD) tests	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	8.3.0	8.4.0
2010-03	RAN#47	R5-100561	0012	-	CR to 36.521-2: Update baseline implementation capabilities with extended LTE1500 operating bands	8.3.0	8.4.0
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	9.1.0	9.2.0
2010-09	RAN#49	R5-104840	0020	-	36521-2 General update to add-remove TCs applicability correct, TC titles and numbers and editorials	9.1.0	9.2.0
2010-09	RAN#49	R5-105056	0021	-	Applicability of a new Rel-9 downlink sustained data rate performance test cases	9.1.0	9.2.0
2010-12	RAN#50	R5-106118	0022	-	CR to 36.521-2: Update baseline implementation capabilities for EUTRA TDD LTE band 41	9.2.0	9.3.0
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 applicability of RRM TCs	9.3.0	9.4.0
2011-06	RAN#52	R5-112131	0025	-	Correction to Band 12 frequency range in 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112212	0026	-	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 8.4.3	9.4.0	9.5.0
2011-06	RAN#52	R5-112865	0030	-	Addition of applicability for new MBMS test cases 10.1 and 10.2	9.4.0	9.5.0
2011-09	RAN#53	R5-113306	0031	-	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	R5-113626	0034	-	Introduction of applicability of PDSCH performance tests for low UE categories	9.5.0	9.6.0
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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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	10.0.0	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	10.0.0	10.1.0
2012-03	RAN#55	R5-120811	0049	-	Correction to FGI bits in test case 8.5.2	10.0.0	10.1.0
2012-03	RAN#55	R5-120812	0050	-	Addition of FGI bit 15 into test cases configuring event 1B	10.0.0	10.1.0
2012-03	RAN#55	R5-120832	0051	-	Update of FGI bit table in TS36.521-2	10.0.0	10.1.0
2012-03	RAN#55	R5-120836	0052	-	Introduction to CA Applicability for Transmitter 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	10.0.0	10.1.0
2012-03	RAN#55	R5-120840	0054	-	Applicability for new UL MIMO test case	10.0.0	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 reselection in the existence of non-allowed CSG cell	10.1.0	10.2.0
2012-06	RAN#56	R5-121965	0058	-	Applicability for new UL MIMO test cases	10.1.0	10.2.0
2012-06	RAN#56	R5-121966	0059	-	Updates to applicability for Transmit timing tests in 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121967	0060	-	Applicability for new R9 RRM test cases	10.1.0	10.2.0
2012-06	RAN#56	R5-121990	0061	-	Addition of applicability for CA TCs	10.1.0	10.2.0
2012-09	RAN#57	R5-123093	0062	-	Updates to applicability for Chapter9 absolute and relative RSRP measurement test cases for carrier aggregation.	10.2.0	10.3.0
2012-09	RAN#57	R5-123165	0063	-	Introduction of Applicability for E-UTRAN Event Triggered reporting on deactivated SCell with PCell interruption in non-DRX for CA	10.2.0	10.3.0
2012-09	RAN#57	R5-123169	0064	-	Correction to Applicability for RSRQ for E-UTRA Carrier Aggregation	10.2.0	10.3.0
2012-09	RAN#57	R5-123170	0065	-	Introduction of eDL MIMO to UE service capabilities	10.2.0	10.3.0
2012-09	RAN#57	R5-123533	0066	-	Update of References in 36.521-2 v980 (pointer)	10.2.0	10.3.0
2012-09	RAN#57	R5-123542	0067	-	TS 36.521-2:TDD CA test cases applicability correction	10.2.0	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	10.2.0	10.3.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-09	RAN#57	R5-123856	0069	-	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 Tx output power for CA	10.2.0	10.3.0
2012-09	RAN#57	R5-123909	0071	-	TS 36.521-2:New UE categories addition	10.2.0	10.3.0
2012-09	RAN#57	R5-123942	0072	-	Applicability update for test cases in TS36.521-1 with single BW requirements not defined for all operating bands, rel-8	10.2.0	10.3.0
2012-09	RAN#57	R5-123993	0073	-	Update applicability of UL-MIMO related conformance test cases	10.2.0	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	10.3.0	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	10.3.0	10.4.0
2012-12	RAN#58	R5-125833	0078	-	Introduction of Band 27 to TS 36.521-2	10.3.0	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	0080	-	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	10.3.0	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	10.3.0	10.4.0
2012-12	RAN#58	R5-124169	0084	-	Applicability for new RRM CA related TCs	10.3.0	10.4.0
2013-03	RAN#59	R5-130177	0085	-	Introduction of new rel-10 Reporting of RI test cases into applicability specification	10.4.0	10.5.0
2013-03	RAN#59	R5-130297	0086	-	Introduction of eDL-MIMO applicability	10.4.0	10.5.0
2013-03	RAN#59	R5-130306	0087	-	Updates to applicability for newly introduced eICIC feature chapter9 RRM test cases	10.4.0	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	10.4.0	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	10.4.0	10.5.0
2013-03	RAN#59	R5-130807	0093	-	Applicability correction to Spurious emission band UE co-existence(36.521-2)	10.4.0	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	0088	-	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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2013-06	RAN#60	R5-131159	0101	-	Introduction of Maximum Input Level test case for CA (inter-band 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	-	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	11.0.0	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	11.0.0	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	-	Addition of applicability for test cases 7.3.13 and 7.3.15	11.1.0	11.2.0
2013-09	RAN#61	R5-133251	0114	-	Addition of Band 31 to 36.521-2	11.1.0	11.2.0
2013-09	RAN#61	R5-133315	0115	-	Applicability for new CA TCs for 20MHz	11.1.0	11.2.0
2013-09	RAN#61	R5-133347	0116	-	eICIC RRM: Applicability for some new added eICIC test cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133350	0117	-	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	11.1.0	11.2.0
2013-09	RAN#61	R5-133816	0119	-	Update applicability of test cases required to support PUSCH 2-2	11.1.0	11.2.0
2013-09	RAN#61	R5-133825	0120	-	eICIC RF: Applicability for some new added eICIC 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	11.1.0	11.2.0
2013-09	RAN#61	R5-133839	0122	-	Correction of applicability for FDD RF TCs 9.3.4.1.1, 9.3.4.2.1 & 9.4.1.2.1 and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2 & 9.4.1.2.2	11.1.0	11.2.0
2013-09	RAN#61	R5-133840	0123	-	Addition of applicabilities for inter-freq/RAT without measurement gaps TCs	11.1.0	11.2.0
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 cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133868	0126	-	Addition of UE capability information Bandwidth Combination Set for Carrier Aggregation in ICS proforma tables	11.1.0	11.2.0
2013-09	RAN#61	R5-133872	0127	-	Update RF performance test applicability table for LTE B14 public safety high power UE	11.1.0	11.2.0
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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2013-12	RAN#62	R5-134129	0131	-	RRM: Corrections of applicability of some test cases	11.2.0	11.3.0
2013-12	RAN#62	R5-134164	0132	-	Introduction of UE TM3 Demodulation Performance under High Speed Applicability	11.2.0	11.3.0
2013-12	RAN#62	R5-134281	0134	-	Addition of applicability for Sustained data rate test(FDD) for category 6 and 7 UEs	11.2.0	11.3.0
2013-12	RAN#62	R5-134285	0135	-	Removal of 6.2.5A.2 from applicability table	11.2.0	11.3.0
2013-12	RAN#62	R5-134293	0136	-	Correction to applicabilities for inter-freq/RAT without measurement gaps TCs	11.2.0	11.3.0
2013-12	RAN#62	R5-134315	0137	-	Removal of comma separated conditions	11.2.0	11.3.0
2013-12	RAN#62	R5-134883	0138	-	Addition of applicability for new TCs 7.4A.4 and 7.5A.4	11.2.0	11.3.0
2013-12	RAN#62	R5-134893	0142	-	Addition of applicabilities of LTE Type A performance requirements	11.2.0	11.3.0
2013-12	RAN#62	R5-134895	0139	-	Removal of redundant not applicable to any device tests from applicability table	11.2.0	11.3.0
2013-12	RAN#62	R5-134279	0133	-	Addition of Rel-12 CA band combinations(CA_3-19 and CA_19-21) to Table A.4.6.3-3	11.3.0	12.0.0
2013-12	RAN#62	R5-135011	0141	-	Updates of Table A.4.6.3-3 for CA 1A-26A	11.3.0	12.0.0
2013-12	RAN#62	R5-135032	0140	-	Applicability for new RRM test cases for 5MHz bandwidth	11.3.0	12.0.0
2014-03	RAN#63	R5-140390	0143	-	LTE Type A performance requirements - Adding a new test case 9.3.5.1.2	12.0.0	12.1.0
2014-03	RAN#63	R5-140426	0144	-	Updates to Intra-band non-contiguous CA applicability	12.0.0	12.1.0
2014-03	RAN#63	R5-140526	0145	-	Addition of applicability for TC 8.2.2.2.4 and TC 8.2.2.4.3	12.0.0	12.1.0
2014-03	RAN#63	R5-140808	0146	-	Correction the applicability for test case 8.2.1.3.2.	12.0.0	12.1.0
2014-03	RAN#63	R5-140809	0147	-	Update applicability table for LTE B14 public safety high power UE test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140817	0148	-	Applicability for new DL CoMP test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140870	0150	-	Corrections the applicability of test cases 8.16.3 and 8.16.4	12.0.0	12.1.0
2014-03	RAN#63	R5-140871	0151	-	Correcting applicability in 8.2.2.1.1_1 and 8.2.2.2.1_1 for UE categories 1 and/or 2	12.0.0	12.1.0
2014-03	RAN#63	R5-140897	0152	-	Addition of Applicability for EPDCCH New Test Cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140923	0153	-	Introduction of UE CA Inter-band uplink capabilities	12.0.0	12.1.0
2014-03	RAN#63	R5-141020	0154	-	Addition of test applicability of WB-RSRQ measurement	12.0.0	12.1.0
2014-03	RAN#63	R5-141035	0155	-	Applicability for new CA RRM TCs 7.1.3+7.1.4	12.0.0	12.1.0
2014-06	RAN#64	R5-142113	0157	-	Addition of CA 3A-28A to 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142337	0158	-	Applicability update for CA band Combo CA_2A-13A	12.1.0	12.2.0
2014-06	RAN#64	R5-142345	0159	-	Addition of CA band combination CA_39A-41A to Table A.4.6.3-3 in TS 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142347	0160	-	Updates of Table A.4.6.3-3 for CA_3A-26A and CA_3A-27A	12.1.0	12.2.0
2014-06	RAN#64	R5-142583	0161	-	Update of FGI definitions in TS 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142674	0162	-	Definition correction to UL and DL category tables	12.1.0	12.2.0
2014-06	RAN#64	R5-142772	0163	-	Addition of CA_2A-4A and CA_5A-7A to 36.521-2 Annex A4	12.1.0	12.2.0
2014-06	RAN#64	R5-142782	0164	-	Introduction of TC 7.6.xA.4 and 7.7A.4 applicabilities	12.1.0	12.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2014-06	RAN#64	R5-142799	0165	-	Addition of applicability for TC 6.6.3B.2	12.1.0	12.2.0
2014-06	RAN#64	R5-143000	0166	-	Conditions C19, C20, C21	12.1.0	12.2.0
2014-06	RAN#64	R5-143016	0167	-	Addition of RF test cases applicability for eICIC	12.1.0	12.2.0
2014-06	RAN#64	R5-143017	0168	-	Addition of RRM test cases applicability for eICIC	12.1.0	12.2.0
2014-06	RAN#64	R5-143028	0169	-	LTE Type A performance requirements - Adding test case 8.2.1.4.3	12.1.0	12.2.0
2014-06	RAN#64	R5-143030	0170	-	Condition C43	12.1.0	12.2.0
2014-06	RAN#64	R5-143053	0171	-	Correction to the applicability of the test case 7.6.2A.3 and 7.7A.3.	12.1.0	12.2.0
2014-06	RAN#64	R5-143054	0172	-	Correction of the condition of test case 8.7.1.1	12.1.0	12.2.0
2014-06	RAN#64	R5-143055	0173	-	Correction of the condition of the test cases 8.2.1.1.1_A.2, 8.2.1.3.1_A.1, 8.2.1.3.1_A.2 and 8.2.1.4.2_A.2	12.1.0	12.2.0
2014-06	RAN#64	R5-143056	0174	-	Correction of the condition for the test cases 8.2.1.1.1_A.1, 8.2.1.4.2_A.1 and 8.2.2.1.1_A.1	12.1.0	12.2.0
2014-06	RAN#64	R5-143060	0175	-	Introduction of feICIC applicability statement for CSI test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-143061	0176	-	Introduction of feICIC applicability statement for RRM test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-143078	0177	-	Applicability for new CoMP TDD TCs	12.1.0	12.2.0
2014-06	RAN#64	R5-143083	0178	-	Addition of applicability for newly added RRM test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-143084	0179	-	Addition of CA_27B related information into A.4.6 in TS 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-143119	0180	-	Update of applicability for EPDCCH test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-143145	0181	-	Condition on no UL CA in C20 and C21	12.1.0	12.2.0
2014-06	RAN#64	R5-143215	0182	-	Addition of applicability for new TM3, soft buffer management and SDR test cases	12.1.0	12.2.0
2014-09	RAN#65	R5-144109	0183	-	Introduction of feICIC applicability statement for Performance test cases (resubmission of R5-143075 not implemented)	12.2.0	12.3.0
2014-09	RAN#65	R5-144121	0184	-	Corrections to feICIC applicability statement for CSI test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144200	0185	-	Applicability for newly added 5MHz+5 MHz and 10MHz+5MHz BW RRM test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144245	0186	-	Corrections to applicability conditions for RRM test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144329	0187	-	Update of FGI definitions in TS 36.521-2	12.2.0	12.3.0
2014-09	RAN#65	R5-144449	0188	-	Applicability update for CA band Combo CA_7A-28A	12.2.0	12.3.0
2014-09	RAN#65	R5-144484	0189	-	Update Tx intra-band contiguous DL CA without UL CA TCs applicability to include BW Class B	12.2.0	12.3.0
2014-09	RAN#65	R5-144504	0190	-	New CA band combination CA_NC_42 and CA_4-27-Update to 36.521-2	12.2.0	12.3.0
2014-09	RAN#65	R5-144512	0191	-	Addition of applicability for CA band combo CA_2A-5A	12.2.0	12.3.0
2014-09	RAN#65	R5-144800	0192	-	Correction to RF Baseline capabilities with Band 29	12.2.0	12.3.0
2014-09	RAN#65	R5-144837	0193	-	Update test applicability for intra band non-contiguous CA test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144848	0194	-	Update test applicability for inter band and intra band contiguous CA test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144849	0195	-	Addition of CA_2A-2A to 36.521-2 Annex A4	12.2.0	12.3.0
2014-09	RAN#65	R5-144864	0202	-	Addition of operating band 30 to TS36.521-2	12.2.0	12.3.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2014-09	RAN#65	R5-144871	0196	-	Correction to Merge UE category tables	12.2.0	12.3.0
2014-09	RAN#65	R5-144877	0197	-	CA: Review of CA capabilities tables	12.2.0	12.3.0
2014-09	RAN#65	R5-144878	0198	-	Addition of applicability for newly added performance test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144911	0199	-	Update applicabilities for serving cell RSRP and RSRQ absolute accuracy TCs	12.2.0	12.3.0
2014-09	RAN#65	R5-144919	0200	-	Update the applicability conditions for TCs 8.8.2.1 and 8.8.2.2	12.2.0	12.3.0
2014-09	RAN#65	R5-144921	0201	-	Addition of applicability for SDR test case 8.7.1.1_A.3	12.2.0	12.3.0
2014-12	RAN#66	R5-145017	0202	-	Correction to 6.7A title number	12.3.0	12.4.0
2014-12	RAN#66	R5-145180	0203	-	New CA band combination CA_1A-3A - Updates of Table A.4.6.3-3	12.3.0	12.4.0
2014-12	RAN#66	R5-145226	0204	-	Introduction of CA_42C into TS36.521-2	12.3.0	12.4.0
2014-12	RAN#66	R5-145244	0205	-	New CA band combination CA_41-42 update to 36.521-2 section A.4.6.3	12.3.0	12.4.0
2014-12	RAN#66	R5-145262	0206	-	Applicability table update for RRM CA test cases in clause 8 and 9 to avoid redundant testing	12.3.0	12.4.0
2014-12	RAN#66	R5-145359	0207	-	Addition of applicability for TCs of activation and deactivation of known SCell	12.3.0	12.4.0
2014-12	RAN#66	R5-145361	0208	-	Removing SDR test applicability for Rel-11 and 12 inter-band CA	12.3.0	12.4.0
2014-12	RAN#66	R5-145396	0209	-	New CA band combination CA_18A-28A - Updates of Table A.4.6.3-3	12.3.0	12.4.0
2014-12	RAN#66	R5-145440	0210	-	New CA band combination 1+11 and 8+11 û Introduction of 1+11 and 8+11 to 36.521-2	12.3.0	12.4.0
2014-12	RAN#66	R5-145478	0211	-	Correction to feICIC applicability statement for PHICH test cases	12.3.0	12.4.0
2014-12	RAN#66	R5-145529	0212	-	Updates to applicability of CA demodulation tests for release independence	12.3.0	12.4.0
2014-12	RAN#66	R5-145821	0213	-	Update of applicability statements for mandatory Rel-11 capabilities, CoMP, and more	12.3.0	12.4.0
2014-12	RAN#66	R5-145822	0214	-	Update of FGI definitions in TS 36.521-2	12.3.0	12.4.0
2014-12	RAN#66	R5-145823	0215	-	Updates the applicable release for soft buffer management and TDD SDR CA tests in part 2	12.3.0	12.4.0
2014-12	RAN#66	R5-145842	0216	-	Corrections to applicabilities for COMP	12.3.0	12.4.0
2014-12	RAN#66	R5-145869	0217	-	Applicability for FDD TC 8.2.1.1.1_A.3 and TDD TC 8.2.2.1.1_A.3+TC 8.2.2.4.2_A.3 for CA	12.3.0	12.4.0
2014-12	RAN#66	R5-145873	0218	-	Update to TM9 test case applicability	12.3.0	12.4.0
2014-12	RAN#66	R5-145905	0219	-	Applicability for newly added RRM TCs for testing of SCell in sTAG	12.3.0	12.4.0
2014-12	RAN#66	R5-145981	0220	-	Update to Additional information section to handle IMSVoIP not supported in 36.521-2	12.3.0	12.4.0
2015-03	RAN#67	R5-150298	0221	-	Introduction of CA_1A-7A to TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150304	0222	-	Corrections to title of RRM test case 8.7.1 in applicability table	12.4.0	12.5.0
2015-03	RAN#67	R5-150365	0223	-	CA: Corrections to CA capability tables	12.4.0	12.5.0
2015-03	RAN#67	R5-150374	0224	-	Introduction of RF applicability for CA band combinations 5+25 and 12+25	12.4.0	12.5.0
2015-03	RAN#67	R5-150444	0225	-	New CA band combination CA_1A-28A - Updates of Table A.4.6.3-3	12.4.0	12.5.0



Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2015-03	RAN#67	R5-150524	0226	-	Addition of CA_1A-20A to TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150546	0227	-	Addition of 2A-12A and 5A-13A 2DL Interband CA to 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150558	0228	-	Applicability conditions added to TCs 9.1.12.x and 9.2.11.x	12.4.0	12.5.0
2015-03	RAN#67	R5-150564	0229	-	Addition of CA_2A-2A-13A to TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150805	0230	-	Update of FGI definitions in TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150830	0231	-	Addition of CA_2-30 to Annex A.4.6 of TS 36.521-2.	12.4.0	12.5.0
2015-03	RAN#67	R5-150831	0232	-	Addition of CA_4-30 to Annex A.4.6 of TS 36.521-2.	12.4.0	12.5.0
2015-03	RAN#67	R5-150832	0233	-	Addition of CA_5-30 to Annex A.4.6 of TS 36.521-2.	12.4.0	12.5.0
2015-03	RAN#67	R5-150858	0234	-	Update of applicability statements for CoMP - TCs being split	12.4.0	12.5.0
2015-03	RAN#67	R5-150872	0235	-	Addition of applicability for 3DL CA test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150876	0236	-	Addition of applicability for CA_39C in TS36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150882	0238	-	Addition of applicability for newly added 20MHz+10MHz RRM test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150883	0239	-	Addition of applicability for newly added RSRP accuracy RRM test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150904	0240	-	Addition of a new table for Supported CA configurations for Interband CA (three bands)	12.4.0	12.5.0
2015-03	RAN#67	R5-150914	0241	-	Addition of applicability for Multi-Cluster PUSCH with One Uplink Carrier test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150923	0242	-	CA demod test case variants merge in 36.521-2	12.4.0	12.5.0
2015-06	RAN#68	R5-151156	0245	-	Correction of applicability conditions for RRM test case 5.3.5 and 5.3.6	12.5.0	12.6.0
2015-06	RAN#68	R5-151164	0246	-	CA RF: Correction to condition description	12.5.0	12.6.0
2015-06	RAN#68	R5-151461	0261	-	Updates to 36.521-2 regarding merging of TDD CA test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-151463	0262	-	Addition of applicability of TD-LTE to UTRA TDD periodic measurements	12.5.0	12.6.0
2015-06	RAN#68	R5-151509	0263	-	Introduction of applicability for test cases 9.6.1.1-A.2 and 9.6.1.2-A.2: FDD/TDD CQI Reporting under AWGN conditions – PUCCH 1-0 (3DL CA)	12.5.0	12.6.0
2015-06	RAN#68	R5-151826	0250	2	Addition and correction of applicability for TDD sustained data rate performance	12.5.0	12.6.0
2015-06	RAN#68	R5-151827	0254	1	Update applicabilities of merged TDD CA cases	12.5.0	12.6.0
2015-06	RAN#68	R5-151828	0258	2	Correction of applicability for TDD sustained data rate performance	12.5.0	12.6.0
2015-06	RAN#68	R5-151829	0268	1	Correction to PICS items referenced in C32b and C33b applicability conditions.	12.5.0	12.6.0
2015-06	RAN#68	R5-151892	0248	1	Addition of frequency E-UTRA band 32	12.5.0	12.6.0
2015-06	RAN#68	R5-151949	0259	1	Applicability update of FDD-TDD RSRP accuracy test cases for FDD-TDD CA.	12.5.0	12.6.0
2015-06	RAN#68	R5-152009	0253	1	Addition of applicability for newly added 20MHz+20MHz and 20MHz+10MHz CA RRM test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152016	0264	1	Introduction to applicability for 2UL CA RF test cases (Tx and Rx)	12.5.0	12.6.0
2015-06	RAN#68	R5-152019	0260	1	Addition of UE category 0 ICS and test cases	12.5.0	12.6.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2015-06	RAN#68	R5-152023	0251	1	Update of CA Physical Layer Baseline Implementation Capabilities for Rel-12 CA 2UL configurations	12.5.0	12.6.0
2015-06	RAN#68	R5-152029	0243	1	Introduction of Band Selection Concept and new 3DL CA Combinations to 36.521-2	12.5.0	12.6.0
2015-06	RAN#68	R5-152036	0255	1	Addition of applicability for newly introduced RSRP accuracy RRM test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152037	0256	1	Addition of applicability for newly added FDD CA RSRP accuracy RRM test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152129	0270	-	CoMP TCs applicability update	12.5.0	12.6.0

---

# History

<b>Document history</b>		
V12.3.0	September 2014	Publication
V12.4.0	January 2015	Publication
V12.5.0	June 2015	Publication
V12.6.0	July 2015	Publication