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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 13.3.0 Release 13)

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Foreword

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Contents

Foreword

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

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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 unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

[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".

[7] Void

[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 an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Applicability - Comments

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

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 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

NOTE: To determine applicability of a test case, FGI support in combined or fdd-Add-UE-EUTRA-Capabilities or tdd-Add-UE-EUTRA-Capabilities is taken into account.

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		
	Transmitter Characteristics					
6.2.2	UE Maximum Output Power	Rel-8	C186	UE supporting E-UTRA Power Class 3	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	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	E01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	and UL CA)					
						TDD
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	E03	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	E02	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)	D01	FDD
						HD-FDD
						TDD
6.2.2EA	UE Maximum Output Power for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	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	E03	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	E02	FDD
						TDD
6.2.3E	Maximum Power Reduction (MPR) for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.2.4A.2	Additional Maximum Power Reduction (A-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	E03	FDD
						TDD
6.2.4A.3	Additional Maximum Power	Rel-11	C115	UE supporting E-UTRA and intra-band non-	E02	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Reduction (A-MPR) for CA (intra-band non-contiguous DL CA and UL CA)			contiguous DL CA and UL CA		
						TDD
6.2.4E	Additional Maximum Power Reduction (A-MPR) for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.2.5	Configured UE transmitted Output Power	Rel-8	C186	UE supporting E-UTRA Power Class 3	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
6.2.5A.3	Additional Maximum Power Reduction (A-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	E03	FDD
						TDD
6.2.5A.4	Additional Maximum Power Reduction (A-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	E02	FDD
						TDD
6.2.5B	Configured transmitted power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.2.5E	Configured transmitted power for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.2.5EA	Configured UE transmitted Power for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-FDD TDD
6.2.5F	Configured UE transmitted Output Power for UE category NB1	Rel-13	TBD	UE supporting NB-IoT (UE category NB1)	TBD	HD-FDD
6.3.1	Void					
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
6.3.2E	Minimum Output Power for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD HD-FDD TDD
6.3.2EA	Minimum Output Power for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-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.2	UE Transmit OFF 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	E03	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						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	E02	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
6.3.3E	UE Transmit OFF power for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.3.3EA	UE Transmit OFF power for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-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
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.1.2	General ON/OFF time mask for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	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	E02	FDD
						TDD
6.3.4B	ON/OFF time mask	Rel-10	C07	UE supporting E-UTRA	D05	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	for UL-MIMO			and UL_MIMO		
						TDD
6.3.4E.1	General ON/OFF time mask for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.3.4E.2	Prach and SRC ON/OFF time mask for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.3.4EA.1	General ON/OFF time mask for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.3.4EA.2	PRACH and SRS ON/OFF time mask for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.3.5.1	Power Control Absolute Power Tolerance	Rel-8	C186	UE supporting E-UTRA Power Class 3	D01	FDD
						TDD
6.3.5.2	Power Control Relative Power Tolerance	Rel-8	C186	UE supporting E-UTRA Power Class 3	D01	FDD
						TDD
6.3.5.3	Aggregate Power Control Tolerance	Rel-8	C186	UE supporting E-UTRA Power Class 3	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	E03	FDD
						TDD
6.3.5A.1.	Power Control	Rel-11	C115	UE supporting E-UTRA	E02	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
3	Absolute Power Tolerance for CA (intra-band non-contiguous DL CA and UL CA)			and intra-band non-contiguous DL CA and UL CA		TDD
6.3.5A.2.1	Power Control Relative Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	E01	FDD
						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	E03	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	E02	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
6.3.5A.3.2	Aggregate Power Control 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	E03	FDD
						TDD
6.3.5A.3.3	Aggregate Power Control 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	E02	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

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
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
6.3.5E.1	Power Control Absolute power tolerance for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.3.5E.2	Power Control Relative power tolerance for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.3.5E.3	Aggregate power control tolerance for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.3.5EA.1	Power control for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.3.5EA.2	Power Control Relative power tolerance for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.3.5EA.3	Aggregate power control tolerance for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.3.5_1.1	Power Control Absolute Power Tolerance for HPUE	Rel-10	C39	UE supporting E-UTRA Power Class 1	D04	FDD
6.3.5_1.2	Power Control Relative Power Tolerance for HPUE	Rel-10	C39	UE supporting E-UTRA Power Class 1	D04	FDD
6.3.5_1.3	Aggregate Power Control Tolerance	Rel-10	C39	UE supporting E-UTRA Power Class 1	D04	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	for HPUE					
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
6.5.1A.3	Frequency Error 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	E02	FDD
						TDD
6.5.1B	Frequency Error for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.5.1D.1	Frequency error for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
6.5.1D.2	Frequency error for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
6.5.1E	Frequency Error for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.5.1EA	Frequency Error for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.5.2.1	Error Vector Magnitude (EVM)	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.1_1	Error Vector Magnitude (EVM) for UL 64QAM	Rel-13	C147	UE supporting E-UTRA and UL 64QAM	D01	FDD; (Note 1)
						TDD; (Note 1)

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.5.2.1A	PUSCH-EVM with exclusion period	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.1E.1	Error Vector Magnitude for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.5.2.1E.2	PUSCH-EVM with exclusion period for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.5.2.1EA.1	Error Vector Magnitude (EVM) for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.5.2.1EA.2	PUSCH-EVM with exclusion period for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.5.2.1F.1	Error Vector Magnitude (EVM) for UE category NB1	Rel-13	TBD	UE supporting NB-IoT (UE category NB1)	TBD	HD-FDD
6.5.2.2	Carrier leakage	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.2E	Carrier leakage for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.5.2.2EA	Carrier leakage for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.5.2.2F	Carrier leakage for UE category NB1	Rel-13	TBD	UE supporting NB-IoT (UE category NB1)	TBD	HD-FDD
6.5.2.3	In-band emissions for non allocated RB	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.5.2.3E	In-band emissions for non allocated RB for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
6.5.2.3EA	In-band emissions for non allocated RB for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-FDD TDD
6.5.2.4	EVM equalizer spectrum flatness	Rel-8	C113	UE supporting E-UTRA	D01	FDD TDD
6.5.2.4E	EVM equalizer spectrum flatness for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD HD-FDD TDD
6.5.2.4EA	EVM equalizer spectrum flatness for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-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.1.1_1	EVM for CA (intra-band contiguous DL CA and UL CA) with UL 64QAM	Rel-13	C148	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM.	E01	FDD (Note 1) TDD (Note 1)
6.5.2A.1.2	Error Vector Magnitude (EVM) for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD TDD
6.5.2A.1.2_1	Error Vector Magnitude (EVM) for CA (inter-band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E-UTRA and inter-band DL CA and UL CA and UL 64QAM	E03	FDD (Note 1) TDD (Note 1)
6.5.2A.1.3	Error Vector Magnitude (EVM) for CA (intra-band	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and	E02	FDD TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	non-contiguous DL CA and UL CA)			UL CA		
6.5.2A.1.3_1	Error Vector Magnitude (EVM) for CA (intra-band non-contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C185	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA and UL 64QAM	E02	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.2.2	Carrier leakage for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
6.5.2A.2.3	Carrier leakage 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	E02	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
6.5.2A.3.2	In-band emissions for non allocated RB for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
6.5.2A.3.3	In-band emissions for non allocated RB 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	E02	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
6.5.2B.2	Carrier leakage for	Rel-10	C07	UE supporting E-UTRA	D05	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	UL-MIMO			and UL_MIMO		
						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.2	6.6.1A.2 Occupied bandwidth for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	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	E02	FDD
						TDD
6.6.1B	Occupied bandwidth for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.6.1E	Occupied bandwidth for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.6.1EA	Occupied bandwidth for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.6.2.1	Spectrum Emission	Rel-8	C113	UE supporting E-UTRA	D01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Mask					
						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
						TDD
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
6.6.2.1A.2	Spectrum Emission Mask for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
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	E02	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
6.6.2.1E	Spectrum Emission Mask for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.6.2.1EA	Spectrum Emission Mask for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.6.2.2	Additional Spectrum Emission Mask	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.2.2_1	Additional Spectrum Emission Mask for UL 64QAM	Rel-13	C147	UE supporting E-UTRA and UL 64QAM	D01	FDD (Note 1)
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						(Note 1)
6.6.2.2A.1	Additional 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
6.6.2.2A.2	Additional Spectrum Emission Mask for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
6.6.2.2A.3	Additional 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	E02	FDD
						TDD
6.6.2.2A.1_1	Additional Spectrum Emission Mask for CA (intra-band contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C148	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM.	E01	FDD (Note 1)
						TDD (Note 1)
6.6.2.2A.2_1	Additional Spectrum Emission Mask for CA (inter-band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E-UTRA and inter-band DL CA and UL CA and UL 64QAM	E03	FDD (Note 1)
						TDD (Note 1)
6.6.2.2B	Additional Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
6.6.2.2E	Additional	Rel-12	C112	UE supporting E-UTRA	D01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Spectrum Emission Mask for UE category 0			(UE category 0		HD-FDD
						TDD
6.6.2.2EA	Additional Spectrum Emission Mask for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.6.2.3	Adjacent Channel Leakage power Ratio	Rel-8	C186	UE supporting E-UTRA Power Class 3	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	C159 (Note 2)	UE supporting E-UTRA and Multi-Cluster PUSCH	D07	FDD
						TDD
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
6.6.2.3A.3	Adjacent Channel Leakage power Ratio 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	E02	FDD
						TDD
6.6.2.3A.1_1	Adjacent Channel Leakage power Ratio for CA (intra-band contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C148	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM	E01	FDD (Note 1)
						TDD (Note 1)
6.6.2.3A.2_1	Adjacent Channel Leakage power Ratio for CA (inter-band DL CA and	Rel-13	C160	UE supporting E-UTRA and inter band DL CA and UL CA and UL	E03	FDD (Note 1)

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	UL CA) for UL 64QAM			64QAM		
						TDD (Note 1)
6.6.2.3A.3_1	Adjacent Channel Leakage power Ratio for CA (intra-band non-contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C161	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA and UL 64QAM	E02	FDD (Note 1)
						TDD (Note 1)
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
6.6.2.3E	Adjacent Channel Leakage power Ratio for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-FDD
						TDD
6.6.2.3EA	Adjacent Channel Leakage power Ratio for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
6.6.2.3_3	Adjacent Channel Leakage power Ratio for UL 64QAM	Rel-13	C147	UE supporting E-UTRA and UL 64QAM	D01	FDD (Note 1)
						TDD (Note 1)
6.6.2.3_4	Adjacent Channel Leakage power Ratio for Multi-Cluster PUSCH with UL 64QAM	Rel-13	C149	UE supporting E-UTRA and Multi-Cluster PUSCH and UL 64QAM	D07	FDD (Note 1)
						TDD (Note 1)
6.6.2.4	Void					
6.6.3.1	Transmitter Spurious emissions	Rel-8	C113	UE supporting E-UTRA	D01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						TDD
6.6.3.1_1	Transmitter Spurious emissions for Multi-Cluster PUSCH	Rel-10	C100	UE supporting E-UTRA and Multi-Cluster PUSCH	D07	FDD
						TDD
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
6.6.3.1A.2	Transmitter Spurious emissions for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
6.6.3.1A.3	Transmitter Spurious emissions 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	E02	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
6.6.3.2A.2	Spurious emission band UE co-existence for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
6.6.3.2A.3	Spurious emission band UE co-existence for CA (intra-band non-contiguous DL CA	Rel-11	C115	UE supporting E-UTRA and intra-band non-contiguous DL CA and UL CA	E02	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	and UL CA)					
						TDD
6.6.3.3	Additional spurious emissions	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
6.6.3.3_1	Additional spurious emissions for UL 64QAM	Rel-13	C147	UE supporting E-UTRA and UL 64QAM	D01	FDD (Note 1)
						TDD (Note 1)
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
6.6.3.3A.1_1	Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C148	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM.	E01	FDD (Note 1)
						TDD (Note 1)
6.6.3.3A.2	Additional spurious emissions for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
6.6.3.3A.2_1	Additional spurious emissions for CA (inter-band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E-UTRA and inter-band DL CA and UL CA and UL 64QAM	E03	FDD (Note 1)
						TDD (Note 1)
6.6.3.3A.3	Additional spurious emissions 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	E02	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
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
6.6.3E.1	Transmitter Spurious emissions for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD HD-FDD TDD
6.6.3E.2	Transmitter Spurious Band UE co-existence for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD HD-FDD TDD
6.6.3EA.1	Transmitter Spurious emissions for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-FDD TDD
6.6.3EA.2	Spurious emission band UE co-existence for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-FDD TDD
6.6.3EA.3	Additional spurious emissions for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD HD-FDD TDD
6.6.3E.3	Additional spurious emissions for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD HD-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 CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD TDD
6.7B	Transmit intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						TDD
6.7E	Transmit intermodulation for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0	D01	FDD
						HD-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
	Receiver Characteristics					
7.3	Reference sensitivity level	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
7.3_1	Reference sensitivity level with 4 Rx antenna ports	Rel-10	C113a	UE supporting E-UTRA with 4Rx antenna ports	D09	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	E08	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	E10	FDD
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		FDD-TDD
7.3A.4	Reference sensitivity level for CA (intra-band non-contiguous DL	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no	E09	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	CA without UL CA)			UL CA		
						TDD
7.3A.5	Reference sensitivity level for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.3A.6	Reference sensitivity level for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E-UTRA and inter-band DL CA and UL CA	E03	FDD
						TDD
7.3A.7	Reference sensitivity level 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	E02	FDD
						TDD
7.3E	Reference sensitivity level for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.3EA	Reference sensitivity level for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
7.3B	Reference sensitivity level for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						TDD
7.4	Maximum input level	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
7.4_1	Maximum input level with 4 Rx antenna ports	Rel-10	C168	UE supporting E-UTRA with 4Rx antenna ports but not 256QAM in DL	D09	FDD
						TDD
7.4_H	7.4_H Maximum input level for 256QAM in DL	Rel-12	C113h	UE supporting E-UTRA and 256QAM in DL		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.1_H	Maximum input level for CA (intra-band contiguous DL CA and UL CA) for 256QAM in DL	Rel-12	C19h	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA and 256QAM in DL		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	E08	FDD
						TDD
7.4A.2_H	Maximum input level for CA (intra-band contiguous DL CA without UL CA) for 256QAM in DL	Rel-12	C20h	UE supporting E-UTRA and intra-band contiguous DL CA and 256QAM in DL		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	E10	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		FDD-TDD
7.4A.3_H	Maximum input level for CA (inter-band DL CA without UL CA) for 256QAM in DL	Rel-12	C21h	UE supporting E-UTRA and inter-band DL CA and 256QAM in DL		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	E09	FDD
						TDD
7.4A.4_H	Maximum input level for CA (intra band non-contiguous DL CA without UL CA) for 256QAM in DL	Rel-12	C43h	UE supporting E-UTRA and intra-band non-contiguous DL CA but no UL CA and 256QAM in DL		FDD
						TDD
7.4A.5	Maximum input level for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.4A.5_H	Maximum input level for 3DL CA	Rel-12	C122h	UE supporting E-UTRA and 3DL CA and 256QAM in DL		FDD
						TDD
7.4B	Maximum input	Rel-10	C07	UE supporting E-UTRA	D05	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	level for UL-MIMO			and UL_MIMO		
						TDD
7.4D.1	Maximum input level for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
7.4D.2	Maximum input level for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
7.4E	Maximum input level for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.4EA	Maximum input level for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
7.5	Adjacent Channel Selectivity (ACS)	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
7.5_1	Adjacent Channel Selectivity (ACS) with 4 Rx antenna ports	Rel-10	C113a	UE supporting E-UTRA with 4Rx antenna ports	D09	FDD
						TDD
7.5A.1	Adjacent Channel Selectivity (ACS) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	E01	FDD
						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	E11	FDD
						TDD
7.5A.3	Adjacent Channel Selectivity (ACS) for CA (inter-band	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA	E12	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	DL CA without UL CA)					
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		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	E09	FDD
						TDD
7.5A.5	Adjacent Channel Selectivity (ACS) for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.5B	Adjacent Channel Selectivity (ACS)for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.5D.1	Adjacent Channel Selectivity (ACS) for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
7.5D.2	Adjacent Channel Selectivity (ACS) for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						TDD
7.5E	Adjacent Channel Selectivity (ACS) for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.5EA	Adjacent Channel Selectivity (ACS) for category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD
7.6.1	In-band blocking	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
7.6.1_1	In-band blocking with 4 Rx antenna ports	Rel-10	C113a	UE supporting E-UTRA with 4Rx antenna ports	D09	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	E11	FDD
						TDD
7.6.1A.3	In-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA	E12	FDD
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		FDD-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	E09	FDD
						TDD
7.6.1A.5	In-band blocking for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or	E07	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				3DL with intra-band contiguous and inter-band CA		
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.6.1B	In-band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.6.1D.1	In-band blocking for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
7.6.1D.2	In-band blocking for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
7.6.1E	In-band blocking for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.6.1EA	In-band blocking for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-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

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
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	E08	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	E10	FDD
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		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	E09	FDD
						TDD
7.6.2A.5	Out-of-band blocking for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.6.2B	Out-of-band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.6.2D.1	Out-of-band blocking for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						TDD
7.6.2D.2	Out-of-band blocking for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
7.6.2E	Out of-band blocking for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.6.2EA	Out of-band blocking for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-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	E08	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	E10	FDD
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		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	E09	FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
7.6.3A.5	Narrow band blocking for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.6.3B	Narrow band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.6.3D.1	Narrow band blocking for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
7.6.3D.2	Narrow band blocking for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
7.6.3E	Narrow band blocking for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.6.3EA	Narrow band blocking for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-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	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous	E01	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	contiguous DL CA and UL CA)			DL 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	E08	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	E10	FDD
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		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	E09	FDD
						TDD
7.7A.5	Spurious response for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.7B	Spurious response 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		
7.7D.1	Spurious response for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
7.7D.2	Spurious response for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
7.7E	Spurious response for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.7EA	Spurious response for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-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	E11	FDD
						TDD
7.8.1A.3	Wide band Intermodulation for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA	E12	FDD
						TDD
		Rel-12	C146	UE supporting E-UTRA and 2DL CA with FDD-TDD inter-band CA		FDD-TDD
7.8.1A.4	Wide band Intermodulation for CA (intra-band non-contiguous DL	Rel-11	C43	UE supporting E-UTRA and intra-band non-contiguous DL CA but no	E09	FDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	CA without UL CA)			UL CA		
						TDD
7.8.1A.5	Wideband intermodulation for 3DL CA	Rel-10	C121	UE supporting E-UTRA and 3DL with intra-band contiguous CA or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA	E07	FDD
						TDD
		Rel-11	C122	UE supporting E-UTRA and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA	E07	FDD
						TDD
		Rel-12	C123	UE supporting E-UTRA and 3DL CA with FDD-TDD CA	E07	FDD-TDD
7.8.1B	Wide band intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD
						TDD
7.8.1D.1	Wide band Intermodulation for ProSe Direct Discovery	Rel-12	C163	UE supporting E-UTRA and ProSe direct discovery	D10	FDD
						TDD
7.8.1D.2	Wide band Intermodulation for ProSe Direct Communication	Rel-12	C162	UE supporting E-UTRA and ProSe direct communication	D10	FDD
						TDD
7.8.1E	Wide band Intermodulation for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.8.1EA	Wide band Intermodulation for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
7.9	Spurious emissions	Rel-8	C113	UE supporting E-UTRA	D01	FDD
						TDD
7.9_1	Spurious emissions with 4 Rx antenna ports	Rel-10	C113a	UE supporting E-UTRA with 4Rx antenna ports	D09	FDD
						TDD
7.9A	Spurious emissions for CA	Rel-10	C120	UE supporting E-UTRA and inter-band DL CA with a DL-only band	E13	FDD
						TDD
7.9E	Spurious emissions for UE category 0	Rel-12	C112	UE supporting E-UTRA (UE category 0)	D01	FDD
						HD-FDD
						TDD
7.9EA	Spurious emissions for UE category M1	Rel-13	C112a	UE supporting E-UTRA and UE category M1	D01	FDD
						HD-FDD
						TDD

	Performance Requirement					
8.2.1.1.1	FDD PDSCH Single Antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.1.1.1_A.1 or 8.2.1.1.1_A.2 is executed.
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.1.1.1_A.1 or 8.2.1.1.1_A.2 is executed.
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 Category ≥ 3)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.1.1.1_A.2 is executed.
		Rel-11	C103	UE supporting E-UTRA FDD and Downlink Intra-band non-contiguous CA (UE Category ≥ 3)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.1.1.1_A.2 is

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						executed.
8.2.1.1.1_A.2	FDD PDSCH Single Antenna Port Performance for CA (3DL CA)	Rel-10	C124	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA (UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	
		Rel-11	C125	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.2.1	FDD PDSCH Transmit Diversity 2x2	Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.2.2	FDD PDSCH Transmit Diversity 4x2	Rel-8	C09	UE supporting E-UTRA FDD and	Each 'Test Number' to	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				operating bands supporting 1,4 MHz Bandwidth	be performed once, in a chosen band supporting tested BW	
8.2.1.2.2_1	FDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.2.5	FDD PDSCH Transmit Diversity 2x2 with TM2 Interference Model – Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.2.1.2.6	FDD PDSCH Transmit Diversity 2x2 with TM9 Interference Model – Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.3.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C13	UE supporting E-UTRA FDD (UE categories 2-8)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.1.3.1_A.1 or 8.2.1.3.1_A.2 is executed.
8.2.1.3.1_1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 (Release 11 and forward)	Rel-11	C13	UE supporting E-UTRA FDD (UE categories 2-8)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.1.3.1_A.1 or 8.2.1.3.1_A.2 is executed.
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 Category ≥2)	Refer to 36.521-1 8.1.2.3	If 8.2.1.3.1_A.2 is executed for a CA capability, test execution is not necessary for that CA capability.
		Rel-11	C90	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA (UE Category ≥ 2)	Refer to 36.521-1 8.1.2.3	If 8.2.1.3.1_A.2 is executed for a CA capability, test execution is not necessary for that CA capability.
8.2.1.3.1_A.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for	Rel-10	C124	UE supporting E-UTRA FDD and 3DL with intra-	TBD	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	CA (3DL CA)				band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA(UE Category ≥ 5)		
			Rel-11	C125	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	TBD	
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)	Refer to 36.521-1 8.1.2.3	TBD
			Rel-11	C106	UE supporting E-UTRA FDD and Downlink Intra-band non-contiguous CA (UE categories 3 and 4)	Refer to 36.521-1 8.1.2.3	TBD
8.2.1.3.1B	FDD PDSCH Open Loop Spatial Multiplexing 2x2 – Enhanced Performance Requirement Type C		Rel-12	C142	UE supporting E-UTRA FDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.3.1C	FDD PDSCH Open Loop Spatial Multiplexing 2x2 with TM1 Interference – Enhanced Performance Requirement Type C		Rel-12	C142	UE supporting E-UTRA FDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.3.2	FDD PDSCH Open Loop Spatial Multiplexing 4x2		Rel-8	C13	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen	(UE categories 2-8)

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					band supporting tested BW	
8.2.1.3.3_C.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.3.3_C.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115 (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.4.1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.4.1_E.1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 for feICIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115 (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.4.1_H	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 for 256QAM in DL	Rel-12	C01h	UE supporting E-UTRA FDD and 256QAM in DL		
8.2.1.4.2	FDD PDSCH Closed Loop	Rel-8 only	C01	UE supporting E-	Each 'Test Number' to	Test

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	Single/Multi Layer Spatial Multiplexing 4x2				UTRA FDD	be performed once, in a chosen band supporting tested BW	execution not necessary if 8.2.1.4.2_A.1 or 8.2.1.4.2_A.2 is executed.
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.1.4.2_A.1 or 8.2.1.4.2_A.2 is executed.
8.2.1.4.2_A.1	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 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 Category ≥ 3)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.1.4.2_A.2 is executed.
			Rel-11	C103	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA (UE Category ≥ 3)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.1.4.2_A.2 is executed.
8.2.1.4.2_A.2	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (3DL CA)		Rel-10	C124	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA (UE Category ≥ 5)	TBD	
			Rel-11	C125	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.2.1.4.2A	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 – Enhanced Performance Requirement Type C	Rel-12	C142	UE supporting E-UTRA FDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	8.2.1.4.2A
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.4.3A	FDD PDCSH Closed Loop Multi-Layer Spatial Multiplexing 4X2 for Dual Connectivity	Rel-12	C169	UE supporting E-UTRA FDD and Dual Connectivity (UE Category ≥ 3)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.1.4.4	FDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference Model – Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.2.1.7_A.1	FDD Carrier aggregation with power imbalance (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	TBD	
8.2.2.1	Void					
8.2.2.1.1	TDD PDSCH Single Antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.2.1.1_A.1 or 8.2.2.1.1_A.2 is executed.
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.2.1.1_A.1 or 8.2.2.1.1_A.2 is

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
						executed.
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 or interband DL CA (UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.2.1.1_A.2 is executed.
			Rel-11	C109	UE supporting E-UTRA TDD andIntra-band non-contiguous DL CA(UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.2.1.1_A.2 is executed.
8.2.2.1.1_A.2	TDD PDSCH Single Antenna Port Performance for CA (3DL CA)		Rel-10	C128	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA (UE Category ≥ 5)	TBD	
			Rel-11	C129	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.2	Void						
8.2.2.2.1	TDD PDSCH Transmit Diversity 2x2		Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					band supporting tested BW	
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.2.2_1	TDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 handling and Feature Group Indicator 115 (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.2.6	TDD PDSCH Transmit Diversity 2x2 with TM2 Interference Model – Enhanced Performance	Rel-12	C151	UE supporting E-UTRA TDD and the enhanced performance requirements type B	Each 'Test Number' to be performed once, in a	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	Requirement Type B				for LTE	chosen band supporting tested BW	
8.2.2.2.7	TDD PDSCH Transmit Diversity 2x2 with TM9 Interference Model – Enhanced Performance Requirement Type B		Rel-12	C151	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.2.3.1_A.1 or .2 is executed.
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.2.3.1_A.1 or .2 is executed.
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 or interband DL CA (UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	If 8.2.2.3.1_A.2 is executed for a CA capability, test execution is not necessary for that CA capability
			Rel-11	C109	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA (UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	If 8.2.2.3.1_A.2 is executed for a CA capability, test execution is not necessary for that CA capability
8.2.2.3.1_A.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (**3**DL CA)		Rel-10	C128	UE supporting E-UTRA TDD and 3DL with intra-band contiguous	Refer to 36.521-1 8.1.2.3	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA(UE Category ≥ 5)		
			Rel-11	C129	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	TBD	
8.2.2.3.1A_A.1	TDD Soft buffer management for CA (2 DL CA)		Rel-10	C105	UE supporting E-UTRA TDD and intra-band contiguous DL CA or inter-band DL CA (UE category 3 and 4)	Refer to 36.521-1 8.1.2.3	TBD
			Rel-11	C72	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA (UE category 3 and 4)	Refer to 36.521-1 8.1.2.3	TBD
8.2.2.3.1B	TDD PDSCH Open Loop Spatial Multiplexing 2x2 – Enhanced Performance Requirement Type C		Rel-12	C143	UE supporting E-UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.3.1C	TDD PDSCH Open Loop Spatial Multiplexing 2x2 with TM1 Interference – Enhanced Performance Requirement Type C		Rel-12	C143	UE supporting E-UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.3.2	TDD PDSCH Open Loop Spatial Multiplexing 4x2		Rel-8	C02	UE supporting E-UTRA TDD (UE Category ≥ 2)	Each 'Test Number' to be performed	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					once, in a chosen band supporting tested BW	
8.2.2.3.3_C.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.3.3_C.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115 (UE Category $\geq$ 2)	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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115 (UE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				Category ≥ 2)		
8.2.2.4.1_H	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 for 256QAM in DL	Rel-12	C02h	UE supporting E-UTRA TDD and 256QAM in DL		
8.2.2.4.2	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.2.4.2_A.1 or 8.2.2.4.2_A.2 is executed.
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	Test execution not necessary if 8.2.2.4.2_A.1 or 8.2.2.4.2_A.2 is executed.
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 or inter-band DL CA (UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.2.4.2_A.2 is executed.
		Rel-11	C109	UE supporting E-UTRA TDD andIntra-band non-contiguous DL CA(UE Category ≥ 5)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.2.2.4.2_A.2 is executed.
8.2.2.4.2_A.2	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (3DL CA)	Rel-10	C128	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA (UE Category ≥ 5)	TBD	
		Rel-11	C129	UE supporting E-UTRA TDD and 3DL with intra-band non-	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)		
8.2.2.4.2A	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 – Enhanced Performance Requirement Type C	Rel-12	C143	UE supporting E-UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.4.4	TDD PDSCH Closed Loop Multi-Layer Spatial Multiplexing 4x2 for Dual Connectivity	Rel-12	C170	UE supporting E-UTRA TDD and Dual Connectivity (UE Category ≥ 5)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.2.2.4.5	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference Model – Enhanced Performance Requirement Type B	Rel-12	C151	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
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	Refer to 36.521-1 8.1.2.3	
8.2.3.1.1.1	TDD FDD CA PDSCH Single Antenna Port Performance for FDD Pcell (2DL CA)	Rel-12	C154	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.1.1.2	TDD FDD CA PDSCH Single Antenna Port Performance for FDD PCell (3DL CA)	Rel-12	C133	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell (UE Category ≥ 5)	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.2.3.1.2.1	TDD FDD CA PDSCH Single Antenna Port Performance for TDD PCell(2DL CA)	Rel-12	C155	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.1.2.2	TDD FDD CA PDSCH Single Antenna Port Performance for TDD PCell (3DL CA)	Rel-12	C135	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.2.1.1	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for FDD PCell (2DL CA)	Rel-12	C154	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.2.1.2	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for FDD PCell (3DL CA)	Rel-12	C133	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.2.1A	TDD FDD CA PDSCH Soft buffer management test for FDD PCell (2DL CA)	Rel-12	C136	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell (UE categories 3 and 4)	TBD	
8.2.3.2.2.1	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for TDD PCell (2DL CA)	Rel-12	C155	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.2.2.2	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for TDD PCell (3DL CA)	Rel-12	C135	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD PCell (UE Category ≥ 5)	TBD	
8.2.3.2.2A	TDD FDD CA PDSCH Soft buffer management test for TDD PCell (2DL CA)	Rel-12	C137	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD PCell (UE categories 3 and 4)	TBD	
8.2.3.3.1.1	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for FDD PCell (2DL CA)	Rel-12	C154	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category ≥ 5)	TBD	
8.2.3.3.1.2	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for	Rel-12	C133	UE supporting E-UTRA FDD and TDD and 3DL CA	TBD	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	FDD PCell (3DL CA)			with FDD as PCell (UE Category ≥ 5)		
8.2.3.3.2.1	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for TDD PCell (2DL CA)	Rel-12	C155	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category ≥5)	TBD	
8.2.3.3.2.2	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for TDD PCell (3DL CA)	Rel-12	C135	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell (UE Category ≥ 5)	TBD	
8.3.1	Void					
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.1.1.1_H	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO for 256QAM in DL	Rel-12	C25h	UE supporting E-UTRA FDD and eDL-MIMO and 256QAM in DL and Feature Group Indicator 103		
8.3.1.1.2_D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.1.1.3	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C40	UE supporting E-UTRA FDD and Feature Group Indictor 103 and supporting the enhanced performance requirements type A for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.1.1.4	FDD PDSCH Closed Loop Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.3.1.1.6	FDD PDSCH Closed Loop Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM3 interference model - Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.1.1.7	FDD PDSCH Closed Loop Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM10 serving cell configuration and TM9 interference model - Enhanced Performance Requirement Type B	Rel-12	C175	UE supporting E-UTRA FDD, enhanced performance requirements type B and PDSCH Tranmission mode 10 for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.1.2.1_D_1	FDD PDSCH Dual-layer Spatial Multiplexing for eDL-MIMO (Release 11 and forward)	Rel-11	TBD	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator [TBD]	TBD	
8.3.1.2.2	FDD PDSCH Dual-layer Spatial Multiplexing – Enhanced Performance Requirement Type C	Rel-12	C144	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103 and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Rel-11	C52	UE supporting E-UTRA FDD and Maximum CSI processes of Three or Four on a	Each 'Test Number' to be performed once, in a chosen	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	resources for CoMP			component carrier within a band with PDSCH transmission mode 10 (UE Category ≥ 2)	band supporting tested BW	
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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.	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
		Rel-10	C02	UE supporting E-UTRA TDD.	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					supporting tested BW	
8.3.2.1.2_H	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO for 256QAM in DL		Rel-12	C26h	UE supporting E-UTRA TDD and eDL-MIMO and 256QAM in DL and Feature Group Indicator 104		
8.3.2.1.3	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 with a simultaneous transmission		Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD.	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
			Rel-10	C02	UE supporting E-UTRA TDD.	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	C25a	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.2.1.4	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A		Rel-11	C41	UE supporting E-UTRA TDD and Feature Group Indictor 103 and supporting the enhanced performance requirements type A for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.2.1.5	TDD PDSCH Closed Loop Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type B		Rel-12	C151	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.2.1.7	TDD PDSCH Closed Loop Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM3 interference model - Enhanced Performance		Rel-12	C151	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE	Each 'Test Number' to be performed once, in a chosen band supporting	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	Requirement Type B					tested BW	
8.3.2.1.8	TDD PDSCH Closed Loop Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM10 serving cell configuration and TM9 interference model - Enhanced Performance Requirement Type B		Rel-12	C176	UE supporting E-UTRA TDD, enhanced performance requirements type B and PDSCH Tranmission mode 10 for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
			Rel-10	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.2.2.1_D	TDD PDSCH Dual-layer Spatial Multiplexing for eDL-MIMO		Rel-10	C25a	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.3.2.2.1_D_1	TDD PDSCH Dual-layer Spatial Multiplexing for eDL-MIMO (Release 11 and forward)		Rel-11	TBD	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator [TBD]	TBD	
8.3.2.2.2	TDD PDSCH Dual-layer Spatial Multiplexing – Enhanced Performance Requirement Type C		Rel-12	C143	UE supporting E-UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category ≥	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				2)		
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.1.1	FDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.1.2	Void					
8.4.1.2.1	FDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.1.2.1_1	FDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.1.2.2	FDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					supporting tested BW	
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 and Feature Group Indicator 115 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115 (UE)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.1.2.2_1	FDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.2.1	TDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					band supporting tested BW	
8.4.2.2.1_1	TDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.2.2.2	TDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.2.2.2_1	TDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.4.2.2.3_E.1	TDD PCFICH/PDCCH 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 and Feature Group Indicator 115(UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				handling and Feature Group Indicator 115(UE Category ≥ 2)	chosen band supporting tested BW	
8.5.1.1	FDD PHICH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.1.2	Void					
8.5.1.2.1	FDD PHICH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.1.2.1_1	FDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.1.2.2	FDD PHICH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.1.2.2_1	FDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.1.2.3_E.1	FDD PHICH Transmit Diversity 2x2 for feICIC	Rel-11	C77	UE supporting E-UTRA FDD and	Each 'Test Number' to be	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection		Additional Information
			Condition	Comments			
	(non-MBSFN ABS)			CRS interference handling and Feature Group Indicator 115 (UE Category ≥ 2)		performed once, in a chosen band supporting tested BW	
8.5.2.1	TDD PHICH Single-antenna Port Performance		Rel-8	C02	UE supporting E-UTRA TDD		Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.2.2	Void							
8.5.2.2.1	TDD PHICH Transmit Diversity 2x2		Rel-8 only	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth		Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.2.2.1_1	TDD PHICH Transmit Diversity 2x2 (Release 9 and forward)		Rel-9	C02	UE supporting E-UTRA TDD		Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.2.2.2	TDD PHICH Transmit Diversity 4x2		Rel-8 only	C02	UE supporting E-UTRA TDD		Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.2.2.2_1	TDD PHICH Transmit Diversity 4x2 (Release 9 and forward)		Rel-9	C02	UE supporting E-UTRA TDD		Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.2.2.3_C.1	TDD PHICH Transmit Diversity 2x2 for eICIC (non-MBSFN ABS)		Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115		Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.5.2.2.3_	TDD PHICH Transmit		Rel-11	C78	UE supporting E-		Each 'Test Number' to	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
E.1	Diversity 2x2 for feICIC (non-MBSFN ABS)			UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115(UE Category ≥ 2)	be performed once, in a chosen band supporting tested BW	
8.7.1.1	FDD sustained data rate performance (Rel-9 and forward)		Rel-9	C76	UE supporting E-UTRA FDD and not supporting 256QAM in DL (UE categories from1 to 4)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.1.1_A.1, 8.7.1.1_A.2 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 and not supporting 256QAM in DL (UE categories 6, 7)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.1.1_A.1, 8.7.1.1_A.2 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 and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.7.1.1_A.2 is executed.
			Rel-11	C93	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.7.1.1_A.2 is executed.
8.7.1.1_A.2	FDD Sustained data rate performance for CA (3DL CA)		Rel-10	C126	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA , or 3DL with inter-band CA, or	Refer to 36.521-1 8.1.2.3	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					3DL with intra-band contiguous and inter-band CA and not supporting 256QAM in DL (UE category 6, 7, 9, 10, 11 and 12)		
			Rel-11	C127	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and not supporting 256QAM in DL (UE category 6, 7, 9, 10, 11 and 12)	TBD	
8.7.1.1_H.1	FDD sustained data rate performance (Single Carrier) for 256QAM in DL		Rel-12	C42h	UE supporting E-UTRA FDD and 256QAM and UE DL category 13		
8.7.1.1_H.2	FDD Sustained data rate performance for CA (2DL CA) for 256QAM in DL		Rel-12	C107h	UE supporting E-UTRA FDD and 2DL CA and 256QAM in DL		
8.7.1.1_H.3	FDD Sustained data rate performance for CA (3DL CA) for 256QAM in DL		Rel-12	C126h	UE supporting E-UTRA FDD and 3DL CA ,and supporting 256QAM in DL		
8.7.2.1	TDD sustained data rate performance (Rel-9 and forward)		Rel-9	C111	UE supporting E-UTRA TDD and not supporting 256QAM in DL (UE categories from 1 to 4)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.2.1_A.1, 8.7.2.1_A.2 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 and not supporting 256QAM in DL (UE category 6 and 7)	Each 'Test Number' to be performed once, in a chosen band supporting	It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
					tested BW	8.7.2.1_A.1, 8.7.2.1_A.2 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 or inter-band DL CA and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.7.2.1_A.4 is executed.
			Rel-11	C75	UE supporting E-UTRA TDD and intra-band non-contiguous DL CA and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	Refer to 36.521-1 8.1.2.3	Test execution not necessary if 8.7.2.1_A.4 is executed.
8.7.2.1_A.2	TDD Sustained data rate performance for CA (3DL CA)		Rel-10	C130	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA , or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and not supporting 256QAM in DL (UE category 6, 7, 9, 10, 11 and 12)	Refer to 36.521-1 8.1.2.3	
			Rel-11	C131	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and not supporting 256QAM in DL (UE category 6, 7, 9, 10, 11 and 12)	TBD	
8.7.2.1_H.1	TDD sustained data rate performance (Single Carrier) for 256QAM in DL		Rel-12	C73h	UE supporting E-UTRA TDD and 256QAM in DL and		

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				UE DL category 13		
8.7.2.1_H.2	TDD sustained data rate performance for CA (2DL CA) for 256QAM in DL	Rel-12	C74h	UE supporting E-UTRA TDD and 2DL CA, and supporting 256QAM in DL		
8.7.2.1_H.3	TDD Sustained data rate performance for CA (3DL CA) for 256QAM in DL	Rel-12	C130h	UE supporting E-UTRA TDD and 3DL CA and supporting 256QAM in DL		
8.7.3.1	FDD sustained data rate performance for EPDCCH scheduling	Rel-11	C55	UE supporting E-UTRA FDD and EPDCCH	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.7.4.1	TDD sustained data rate performance for EPDCCH scheduling	Rel-11	C56	UE supporting E-UTRA TDD and EPDCCH	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.7.5.1.1	TDD FDD CA Sustained data rate performance for FDD PCell (2DL CA)	Rel-12	C138	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	TBD	
8.7.5.1.2	TDD FDD CA Sustained data rate performance for FDD PCell (3DL CA)	Rel-12	C139	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and not supporting 256QAM in DL (UE category 6, 7, 9, 10, 11 and 12)	TBD	
8.7.5.1_H.1	TDD FDD CA Sustained data rate performance for FDD PCell (2DL CA) for 256QAM in DL	Rel-12	C138h	UE supporting E-UTRA FDD and TDD and 2DL TDD-FDD CA with FDD as PCell and supporting 256QAM in DL		
8.7.5.1_H.2	TDD FDD CA Sustained data rate performance for FDD PCell (3DL CA) for	Rel-12	C139h	UE supporting E-UTRA FDD and TDD and 3DL		

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	256QAM in DL			TDD-FDD CA with FDD as PCell and supporting 256QAM in DL		
8.7.5.2.1	TDD FDD CA Sustained data rate performance for TDD PCell (2DL CA)	Rel-12	C140	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	TBD	
8.7.5.2.2	TDD FDD CA Sustained data rate performance for TDD PCell (3DL CA)	Rel-12	C141	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and not supporting 256QAM in DL (UE category 6, 7, 9, 10, 11 and 12)	TBD	
8.7.5.2_H.1	TDD FDD CA Sustained data rate performance for TDD PCell (2DL CA) for 256QAM in DL	Rel-12	C140h	UE supporting E-UTRA FDD and TDD and 2DL TDD-FDD CA with TDD as PCell and supporting 256QAM in DL		
8.7.5.2_H.2	TDD FDD CA Sustained data rate performance for TDD PCell (3DL CA) for 256QAM in DL	Rel-12	C141h	UE supporting E-UTRA FDD and TDD and 3DL TDD-FDD CA with TDD as PCell and supporting 256QAM in DL		
8.7.6.1	FDD sustained data rate performance for Dual Connectivity 64QAM	Rel-12	C171	UE supporting E-UTRA FDD and Dual Connectivity and not supporting 256QAM in DL (UE Category 3, 4, 6, 7, 9, and 10)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.7.6.2	FDD sustained data rate performance for Dual Connectivity 256QAM	Rel-12	C173	UE supporting E-UTRA FDD and Dual Connectivity and supporting 256QAM in DL	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.7.7.1	TDD sustained data rate performance for Dual Connectivity 64QAM	Rel-12	C172	UE supporting E-UTRA TDD and Dual Connectivity	Each 'Test Number' to be performed	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
				and not supporting 256QAM in DL (UE Category 6, 7, 9, and 10)	once, in a chosen band supporting tested BW	
8.7.7.2	TDD sustained data rate performance for Dual Connectivity 256QAM	Rel-12	C174	UE supporting E-UTRA TDD and Dual Connectivity and supporting 256QAM in DL	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.8.1.1	FDD distributed EPDCCH performance	Rel-11	C55	UE supporting E-UTRA FDD and EPDCCH	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.8.1.2	TDD distributed EPDCCH performance	Rel-11	C56	UE supporting E-UTRA TDD and EPDCCH	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 carrier within a band with PDSCH transmission mode 10	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.8.3.2	TDD localized EPDCCH transmission with TM10	Rel-11	C58	UE supporting E-UTRA TDD and	Each 'Test Number' to	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
	Type B quasi co-location type			EPDCCH and Multiple CSI processes on a component carrier within a band with PDSCH transmission mode 10	be performed once, in a chosen band supporting tested BW	
8.9.1.1.1	Transmit diversity performance for UE category 0 (Cell-Specific Reference Symbols)	Rel-12	C145	UE supporting E-UTRA FDD (UE category 0)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.9.1.1.2	FDD closed-loop spatial multiplexing performance (Cell-Specific Reference Symbols)	Rel-12	C145	UE supporting E-UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.9.1.1.3	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category 0	Rel-12	C157	UE supporting E-UTRA FDD (UE category 0) and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.9.1.2.1	TDD PDSCH Transmit Diversity for UE category 0	Rel-12	C156	UE supporting E-UTRA TDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.9.1.2.2	TDD closed-loop spatial multiplexing performance (Cell-Specific Reference Symbols)	Rel-12	C145	UE supporting E-UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.9.1.2.3	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category 0	Rel-12	C158	UE supporting E-UTRA TDD (UE category 0) and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.9.2.1.1	FDD PHICH Transmit Diversity for UE category	Rel-12	C145	UE supporting E-UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.9.2.2.1	TDD PHICH Transmit Diversity for UE category 0	Rel-12	C156	UE supporting E-UTRA TDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.1.1.1	FDD PDSCH Transmit Diversity 2x4	Rel-10	C113b	UE supporting E-UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.2.1.1	FDD PCFICH/PDCCH Single-antenna Port Performance 1x4	Rel-10	C113b	UE supporting E-UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.2.1.2	FDD PCFICH/PDCCH Transmit Diversity Performance 2x4	Rel-10	C113b	UE supporting E-UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.2.1.3	FDD PCFICH/PDCCH Transmit Diversity Performance 4x4	Rel-10	C113b	UE supporting E-UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.2.2.1	TDD PCFICH/PDCCH Single-antenna Port Performance 1x4	Rel-10	C184	UE supporting E-UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.10.2.2.2	TDD PCFICH/PDCCH Transmit Diversity Performance 2x4	Rel-10	C184	UE supporting E-UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.2.2.3	TDD PCFICH/PDCCH Transmit Diversity Performance 4x4	Rel-10	C184	UE supporting E-UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
8.10.4.1.1	FDD distributed EPDCCH performance 2x4	Rel-10	C164	UE supporting E-UTRA FDD and EPDCCH with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.10.4.1.2	TDD distributed EPDCCH performance 2x4	Rel-10	C165	UE supporting E-UTRA TDD and EPDCCH with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.10.4.2.1	FDD localized EPDCCH performance with TM9 2x4	Rel-10	C166	UE supporting E-UTRA FDD and EPDCCH and Feature Group Indicator 103 with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.10.4.2.2	TDD localized EPDCCH performance with TM9 2x4	Rel-10	C167	UE supporting E-UTRA TDD and EPDCCH and Feature Group Indicator 103 with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.11.1.1.1	FDD Closed-loop spatial multiplexing performance for UE category M1	Rel-13	C145a	UE supporting E-UTRA FDD and UE category M1	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability		Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments		
8.11.2.1	FDD demodulation of MPDCCH in CE Mode A	Rel-13	C145b	UE supporting E-UTRA FDD and (UE category M1 or CE Mode A)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
8.11.2.2	TDD demodulation of MPDCCH in CE Mode A	Rel-13	C156b	UE supporting E-UTRA TDD and UE category M1	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
	Reporting of Channel State Information					
9.2.1.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.2.1.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.2.1.4_C.1	TDD CQI Reporting under AWGN conditions - PUCCH 1-0 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115 (UE	Each 'Test Number' to be performed once, in a chosen band supporting	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					Category ≥ 2)	tested BW	
9.2.1.6_E.1	TDD CQI Reporting under AWGN conditions – 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 and Feature Group Indicator 115(UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.2.1.7	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for 256QAM in DL		Rel-12	C01h	UE supporting E-UTRA FDD and 256QAM in DL(UE category 11-12 and UE DL category ≥11)		
9.2.1.8	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for 256QAM in DL		Rel-12	C02h	UE supporting E-UTRA TDD and 256QAM in DL(UE category 11-12 and UE DL category ≥11)		
9.2.2.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-1		Rel-8	C13	UE supporting E-UTRA FDD (UE categories 2-8)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.2.2.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-1		Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.1.1.1	FDD CQI Reporting under fading conditions - PUSCH 3-0		Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.1.1.2	TDD CQI Reporting under fading conditions - PUSCH 3-0		Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.1.2.2_D	TDD CQI Reporting under fading conditions - PUSCH 3-1 for eDL-MIMO		Rel-10	C25a	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
9.3.1.2.3	FDD CQI Reporting under fading conditions – PUSCH 3-1 for 256QAM in DL		Rel-12	C01h	UE supporting E-UTRA FDD and 256QAM in DL(UE category 11-12 and UE DL category ≥11)		
9.3.1.2.4	TDD CQI Reporting under fading conditions – PUSCH 3-1 for 256QAM in DL		Rel-12	C02h	UE supporting E-UTRA TDD and 256QAM in DL(UE category 11-12 and UE DL category ≥11)		
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 and Feature Group Indicator 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.2.1.1	FDD CQI Reporting under fading conditions - PUCCH 1-0		Rel-8	C13	UE supporting E-UTRA FDD (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.2.1.2	TDD CQI Reporting under fading conditions - PUCCH 1-0		Rel-8	C14	UE supporting E-UTRA TDD (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.2.1.2_1	TDD CQI Reporting under fading conditions - PUCCH		Rel-9	C16	UE supporting E-UTRA TDD (UE	Each 'Test Number' to be	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	1-0 (Release 9 and forward)				category 1)	performed once, in a chosen band supporting tested BW	
9.3.2.2.1_D	FDD CQI Reporting under fading conditions - PUCCH 1-1 for eDL-MIMO		Rel-10	C25x	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.2.2.2_D	TDD CQI Reporting under fading conditions - PUCCH 1-1 for eDL-MIMO		Rel-10	C28y	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicators 104 and 110 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.4.1.1	FDD CQI Reporting under fading conditions - PUSCH 2-0		Rel-9	C32	UE supporting E-UTRA FDD and Feature Group Indicator 1	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					Indicator 2	once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.5.1.1	FDD CQI Reporting under fading conditions - PUCCH 1-0 - Enhanced Performance Requirement Type A		Rel-11	C44	UE supporting E-UTRA FDD and the enhanced performance requirements type A for LTE	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.5.2.1	FDD CQI Reporting under fading conditions - PUCCH 1-1 - Enhanced Performance Requirement Type A		Rel-11	C44z	UE supporting E-UTRA FDD and the enhanced performance requirements type A for LTE (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.5.2.2	TDD CQI Reporting under fading conditions - PUCCH 1-1 - Enhanced Performance Requirement Type A		Rel-11	C45i	UE supporting E-UTRA TDD and the enhanced performance requirements type A for LTE (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.6.1_F.2	FDD CQI Reporting under fading conditions with Three		Rel-11	C96	UE supporting E-UTRA FDD and Maximum CSI	Each 'Test Number' to be	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	CSI processes for CoMP				processes of Three on a component carrier within a band with PDSCH transmission mode 10	performed once, in a chosen band supporting tested BW	
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 band with PDSCH transmission mode 10	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.7.1	FDD CQI Reporting under fading conditions - PUSCH 3-2 for eDL MIMO Enhancement		Rel-12	C25	UE supporting E-UTRA FDD and eDL-MIMO Enhancement and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW	9.3.7.1
9.3.7.2	TDD CQI Reporting under fading conditions - PUSCH 3-2 for eDL MIMO		Rel-12	C25a	UE supporting E-UTRA TDD and eDL-MIMO Enhancement and	Each "Test Number" to be performed	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	Enhancement				Feature Group Indicator 103	once, in a chosen band supporting tested BW	
9.3.8.1.1	FDD CQI Reporting under fading conditions - PUCCH 1-1 (Cell-Specific Reference Symbols) TM4 - Enhanced Receiver Type B		Rel-12	C152	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.8.1.2	TDD CQI Reporting under fading conditions - PUCCH 1-1 (Cell-Specific Reference Symbols) TM4 - Enhanced Receiver Type B		Rel-12	C153	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.3.8.2.1	FDD CQI Reporting under fading conditions - PUCCH 1-1 (CSI Reference Symbol) TM9 - Enhanced Receiver Type B		Rel-12	C152	UE supporting E-UTRA FDD and the enhanced performance requirements type B for LTE (UE Category ≥ 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
9.3.8.2.2	TDD CQI Reporting under fading conditions - PUCCH 1-1 (CSI Reference Symbol) TM9 - Enhanced Receiver Type B		Rel-12	C153	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE (UE Category ≥ 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
9.4.1.1.1	FDD PMI Reporting - PUSCH 3-1 (Single PMI)		Rel-8	C01	UE supporting E-UTRA FDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.4.1.1.2	TDD PMI Reporting - PUSCH 3-1 (Single PMI)		Rel-8	C02	UE supporting E-UTRA TDD	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
						chosen band supporting tested BW	
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 2	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.4.1.4.1	FDD PMI Reporting with 4Tx enhanced codebook – PUCCH 1-1 (Single PMI) for eDL MIMO Enhancement		Rel-12	C25	UE supporting E-UTRA FDD and eDL-MIMO Enhancement and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
9.4.1.4.2	TDD PMI Reporting with 4Tx enhanced codebook – PUCCH 1-1 (Single PMI) for eDL MIMO Enhancement		Rel-12	C25a	UE supporting E-UTRA TDD and eDL-MIMO Enhancement and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
						band supporting tested BW	
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)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.4.2.3.1_D	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI) for eDL-MIMO		Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.4.2.3.3	FDD PMI Reporting with 4Tx enhanced codebook - PUSCH 1-2 (Multiple PMI) for eDL-MIMO Enhancement		Rel-12	C25	UE supporting E-UTRA FDD and eDL-MIMO Enhancement and Feature Group	Each "Test Number" to be performed once, in a chosen band	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					Indicator 103	supporting tested BW	
9.4.2.3.4	TDD PMI Reporting with 4Tx enhanced codebook - PUSCH 1-2 (Multiple PMI) for eDL-MIMO Enhancement		Rel-12	C25a	UE supporting E-UTRA TDD and eDL-MIMO Enhancement and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
9.5.1.1	FDD RI Reporting - PUCCH 1-1		Rel-8 and Rel-9 only	C13a	UE supporting E-UTRA FDD (UE Category 2-5)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.1.1_1	FDD RI Reporting - PUCCH 1-1 (Release 10)		Rel-10 only	C13	UE supporting E-UTRA FDD (UE Category 2-8)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.1.1_2	FDD RI Reporting- PUCCH 1-1 (Release 11)		Rel-11	C13b	UE supporting E-UTRA FDD (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.1.2	TDD RI Reporting - PUSCH 3-1		Rel-8 and Rel-9 only	C14a	UE supporting E-UTRA TDD (UE Category 2-5)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.1.2_1	TDD RI Reporting - PUSCH 3-1 (Release 10)		Rel-10 only	C14	UE supporting E-UTRA TDD (UE Category 2-8)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.1.2_2	TDD RI Reporting- PUSCH 3-1 (Release 11)		Rel-11	C14b	UE supporting E-UTRA TDD (UE Category $\geq$ 2)	Each 'Test Number' to be performed once, in a chosen band supporting	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
						tested BW	
9.5.2.1_D	FDD RI Reporting - PUCCH 1-1 for eDL-MIMO		Rel-10	C25x	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicators 103 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.2.2_D	TDD RI Reporting - PUCCH 1-1 for eDL-MIMO		Rel-10	C25y	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.5.3.1_C.1	FDD RI Reporting – PUCCH 1-0 for eICIC (non-MBSFN ABS)		Rel-10	C29	UE supporting E-UTRA FDD and Feature Group Indicator 115	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 and Feature Group Indicator 115(UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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	Each 'Test Number' to be performed once, in a chosen band	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					band with PDSCH transmission mode 10 (UE Category ≥ 2)	supporting tested BW	
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 band with PDSCH transmission mode 10 (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
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 Category ≥ 3)	Refer to 36.521-1 9.1.1.2	Test execution not necessary if 9.6.1.1_A.2 is executed.
			Rel-11	C103	UE supporting E-UTRA FDD and intra-band non-contiguous DL CA(UE Category ≥ 3)	Refer to 36.521-1 9.1.1.2	Test execution not necessary if 9.6.1.1_A.2 is executed.
9.6.1.1_A.2	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (3 DL CA)		Rel-10	C124	UE supporting E-UTRA FDD and 3DL with intra-band contiguous	Refer to 36.521-1 9.1.1.2	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA (UE Category ≥ 5)		
			Rel-11	C125	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	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 ≥3)	Refer to 36.521-1 9.1.1.2	Test execution not necessary if 9.6.1.2_A.2 is executed.
9.6.1.2_A.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (3 DL CA)		Rel-10	C128	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA (UE Category ≥ 5)	Refer to 36.521-1 9.1.1.2	
			Rel-11	C129	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA (UE Category ≥ 5)	Refer to 36.521-1 9.1.1.2	
9.6.1.3.1	TDD FDD CA CQI Reporting under AWGN conditions – PUCCH 1-0 for FDD PCell (2DL CA)		Rel-12	C132	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category ≥ 3)	TBD	
9.6.1.3.2	TDD FDD CA CQI Reporting under AWGN		Rel-12	C133	UE supporting E-UTRA FDD and	TBD	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
	conditions – PUCCH 1-0 for FDD PCell (3DL CA)			TDD and 3DL CA with FDD as PCell (UE Category ≥ 5)			
9.6.1.4.1	TDD FDD CA CQI Reporting under AWGN conditions – PUCCH 1-0 for TDD PCell (2DL CA)		Rel-12	C134	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category ≥ 3)	TBD	
9.6.1.4.2	TDD FDD CA CQI Reporting under AWGN conditions – PUCCH 1-0 for TDD PCell (3DL CA)		Rel-12	C135	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell (UE Category ≥ 5)	TBD	
9.7.1.1	FDD and Half duplex FDD CQI reporting definition under AWGN conditions for UE category 0		Rel-12	C145	UE supporting E-UTRA FDD (UE category 0)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.7.1.2	TDD CQI reporting definition under AWGN conditions for UE category 0		Rel-12	C119	UE supporting E-UTRA TDD (UE category 0)		
9.7.2.1	FDD and Half duplex FDD CQI reporting definition under fading conditions for UE category 0		Rel-12	C145	UE supporting E-UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
9.7.2.2	TDD CQI reporting definition under fading conditions for UE category 0		Rel-12	C156	UE supporting E-UTRA TDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	
9.8.1.1	FDD and Half duplex FDD CQI reporting definition under AWGN conditions for UE category M1		Rel-13	C145a	UE supporting E-UTRA FDD and UE category M1	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.1.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 with Rank 1 1x4		Rel-10	C113b	UE supporting E-UTRA FDD with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
						supporting tested BW	
9.9.1.1.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 with Rank 1 1x4		Rel-10	C177	UE supporting E-UTRA TDD with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.2.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-1 with rank 2 4x4		Rel-10	C178	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103 with 4Rx antenna ports (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.2.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-1 with rank 2 8x4		Rel-10	C179	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104 with 4Rx antenna ports (UE Category ≥ 2)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.3.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-1 with rank 4 4x4		Rel-10	C180	UE supporting E-UTRA FDD with 4Rx antenna ports (UE Category ≥ 5)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.3.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-1 with rank 4 4x4		Rel-10	C181	UE supporting E-UTRA TDD with 4Rx antenna ports (UE Category ≥ 5)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.4.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-1 with rank 3 4x4		Rel-10	C182	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103 with 4Rx antenna ports (UE Category ≥ 5)	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
9.9.1.4.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-1 with rank 3 4x4		Rel-10	C183	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103 with 4Rx antenna ports	Each 'Test Number' to be performed once, in a chosen band supporting	

Clause	Title	Release	Applicability			Tested Bands / CA-Configurations Selection	Additional Information
			Condition	Comments			
					(UE Category ≥ 5)	tested BW	
	MBMS Performance Testing						
10.1	FDD MBMS performance (Fixed Reference Channel)	Rel-9	C03		UE supporting E-UTRA FDD and MBMS	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
10.1_1	FDD MBMS performance (Fixed Reference Channel) (Release 13 and forward)	Rel-13	C03		UE supporting E-UTRA FDD and MBMS	Performed once	
10.2	TDD MBMS performance (Fixed Reference Channel)	Rel-9	C04		UE supporting E-UTRA TDD and MBMS	Each 'Test Number' to be performed once, in a chosen band supporting tested BW	
10.2_1	TDD MBMS performance (Fixed Reference Channel) (Release 13 and forward)	Rel-13	C04		UE supporting E-UTRA TDD and MBMS	Performed once	

Note 1: Due to UE capability signalling for UL 64QAM is introduced from Rel-12, this test case can optionally be executed with a Rel-12 UE.

Note 2: For a transition period until RAN5#72, this condition in version 13.0.0 of 36.521-2 shall be used. This is to ensure no test coverage is lost before the UL 64QAM test case becomes available.

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

C01	IF NOT(A.4.3-4a/1) AND A.4.1-1/1 THEN R ELSE N/A
C01h	IF (A.4.1-1/1 AND A.4.5-1/18) THEN R ELSE N/A
C02	IF NOT(A.4.3-4a/1) AND A.4.1-1/2 THEN R ELSE N/A
C02h	IF (A.4.1-1/2 AND A.4.5-1/18) THEN R ELSE N/A
C03	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A
C04	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A
C05	Void
C06	Void
C07	IF ((NOT(A.4.3-4a/1) AND A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A
C08	Void
C09	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A
C10	IF (NOT(A.4.3-4a/1) 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
C13a	IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5)) THEN R ELSE N/A
C13b	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 ORA.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 OR A.4.3-4/11 OR A.4.3-4/12)) 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
C14a	IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5)) THEN R ELSE N/A
C14b	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 ORA.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 OR A.4.3-4/11 OR A.4.3-4/12)) 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.4.3-4a/1) 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
C19h	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A
C20	IF (NOT(A.4.3-4a/1) 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)THEN R ELSE N/A
C20h	IF ((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 A.4.5-1/18) THEN R ELSE N/A
C21	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A
C21h	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18) THEN R ELSE N/A
C22	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C23	Void
C24	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A
C25	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1) AND A.4.2-1/4 AND A.4.4-3a/103) THEN R ELSE N/A
C25h	IF (A.4.1-1/1 AND A.4.2-1/4 AND A.4.4-3a/103 AND A.4.5-1/18) THEN R ELSE N/A
C25a	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3b/103) THEN R ELSE N/A
C25x	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND A.4.2-1/4 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 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C25y	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/2 AND A.4.4-3b/103) AND A.4.2-1/4 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 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C26	IF (NOT(A.4.3-4a/1) AND ((A.4.1-1/1 AND A.4.4-3a/104) OR (A.4.1-1/2 AND A.4.4-3b/104)) AND A.4.2-1/4) THEN R ELSE N/A
C26h	IF (((A.4.1-1/1 AND A.4.4-3a/104) OR (A.4.1-1/2 AND A.4.4-3b/104)) AND A.4.2-1/4 AND A.4.5-1/18) THEN R ELSE N/A
C27	Void
C28	IF (NOT(A.4.3-4a/1) AND ((A.4.1-1/1 AND A.4.4-3a/104 AND A.4.4-3a/110) OR (A.4.1-1/2 AND A.4.4-3b/104 AND A.4.4-3b/110)) AND A.4.2-1/4) THEN R ELSE N/A
C28y	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/2 AND A.4.4-3a/104 AND A.4.4-3a/110) AND A.4.2-1/4 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 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C29	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A
C30	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.4-3b/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.4.3-4a/1) AND A.4.1-1/1 AND A.4.4-1a/1) THEN R ELSE N/A
C33	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.4-1b/1) THEN R ELSE N/A
C34	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/5) THEN R ELSE N/A
C35	Void
C36	IF NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.4-1a/2 THEN R ELSE N/A

C37	IF NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.4-1b/1 THEN R ELSE N/A
C38	IF NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.4-1b/2 THEN R ELSE N/A
C39	IF(NOT(A.4.3-4a/1) 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.4.3-4a/1) AND A.4.1-1/1 AND A.4.4-3a/103 AND A.4.3-7/1) THEN R ELSE N/A
C41	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.4-3b/103 AND A.4.3-7/1) THEN R ELSE N/A
C42	IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C42h	IF ((A.4.1-1/1) AND (A.4.3-4/6 OR A.4.3-4/7) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A
C43	IF (NOT(A.4.3-4a/1) 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
C43h	IF ((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 AND A.4.5-1/18) THEN R ELSE N/A
C44	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.3-7/1) THEN R ELSE N/A
C44z	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.3-7/1 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
C45	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.3-7/1) THEN R ELSE N/A
C45i	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.3-7/1 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
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.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/6) THEN R ELSE N/A
C56	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/6) THEN R ELSE N/A
C57	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/6 AND (A.4.5-1/11 OR A.4.5-1/12)) THEN R ELSE N/A
C58	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/6 AND (A.4.5-1/11 OR A.4.5-1/12)) 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 (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C73h	IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A
C74	IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) 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 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A
C74h	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.4.5-1/18) THEN R ELSE N/A
C75	IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) 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 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A
C76	IF A.4.1-1/1 AND (NOT A.4.5-1/18) 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.4.4-3a/115 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 A4.5-2/2 AND A.4.4-3b/115 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.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115) THEN R ELSE N/A

C80	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-2/1 AND A4.5-2/2 AND A.4.4-3b/115) THEN R ELSE N/A
C81	IF (NOT(A.4.3-4a/1) 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.4.3-4a/1) 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.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A
C92	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3b/103) THEN R ELSE N/A
C93	IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) 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 OR A.4.3-4/9 OR A.4.3-4/10)) 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.4.3-4a/1) AND (A.4.1-1/1 or A.4.1-1/2) 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 (NOT A.4.5-1/18) 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 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A
C107h	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.4.5-1/18) 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 (NOT A.4.5-1/18) 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.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A
C112a	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A
C113	IF NOT(A.4.3-4a/1) THEN R ELSE N/A
C113a	IF (A.4.5-1/22) THEN R ELSE N/A
C113b	IF (A.4.1-1/1 AND A.4.5-1/22) THEN R ELSE N/A
C113h	IF (A.4.5-1/18) 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
C119	IF A.4.1-1/2 AND A.4.3-4a /1 THEN R ELSE N/A
C120	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/5) THEN R ELSE N/A

C121	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C122	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A
C122h	IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4 OR A.4.6.3-1/2 OR A.4.6.2-1/2)) AND A.4.5-1/18) THEN R ELSE N/A
C123	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2) THEN R ELSE N/A
C124	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C125	IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C126	IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C126h	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.5-1/18)THEN R ELSE N/A
C127	IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C128	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C129	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C130	IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C130h	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.5-1/18) THEN R ELSE N/A
C131	IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C132	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C133	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C134	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C135	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C136	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C137	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C138	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (NOT A.4.5-1/18) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A
C138h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND A.4.5-1/18)THEN R ELSE N/A
C139	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A
C139h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND A.4.5-1/18)THEN R ELSE N/A
C140	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (NOT A.4.5-1/18) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A
C140h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND A.4.5-1/18)THEN R ELSE N/A
C141	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A
C141h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND A.4.5-1/18) THEN R ELSE N/A
C142	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1) AND A.4.1-1/1 AND A.4.3-7/3) THEN R ELSE N/A
C143	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1) AND A.4.1-1/2 AND A.4.3-7/3) THEN R ELSE N/A
C144	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/4 AND A.4.3-7/3 AND A.4.4-3a/103) THEN R ELSE N/A
C145	IF A.4.1-1/1 AND A.4.3-4a/1 THEN R ELSE N/A
C145a	IF A.4.1-1/1 AND A.4.3-4aa/1 THEN R ELSE N/A
C145b	IF A.4.1-1/1 AND (A.4.3-4aa/1 OR A.4.5-1/25) THEN R ELSE N/A
C146	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A
C147	IF ((NOT(A.4.3-4a/1) AND A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/17) THEN R ELSE N/A
C148	IF (NOT(A.4.3-4a/1) 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 AND A.4.5-1/17) THEN R ELSE N/A
C149	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/13 AND A.4.5-1/17) THEN R ELSE N/A
C150	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.3-7/4) THEN R ELSE N/A
C151	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.3-7/4) THEN R ELSE N/A
C152	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1) AND A.4.1-1/1 AND A.4.3-7/4) THEN R ELSE N/A
C153	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1) AND A.4.1-1/2 AND A.4.3-7/4) THEN R ELSE N/A

C154	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C155	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C156	IF A.4.1-1/2 AND A.4.3-4a/1 THEN R ELSE N/A
C156a	IF A.4.1-1/2 AND A.4.3-4aa/1 THEN R ELSE N/A
C156b	IF A.4.1-1/2 AND (A.4.3-4aa/1 OR A.4.5-1/25) THEN R ELSE N/A
C157	IF A.4.1-1/1 AND A.4.3-4a/1 AND A.4.4-3a/103 THEN R ELSE N/A
C158	IF A.4.1-1/2 AND A.4.3-4a/1 AND A.4.4-3b/103 THEN R ELSE N/A
C159	IF (NOT(A.4.3-4a/1 OR A.4.5-1/17) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/13) THEN R ELSE N/A
C160	IF (NOT(A.4.3-4a/1) AND (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 AND A.4.5-1/17) THEN R ELSE N/A
C161	IF (NOT(A.4.3-4a/1) AND (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 AND A.4.5-1/17) THEN R ELSE N/A
C162	IF A.4.5-1/23 THEN R ELSE N/A
C163	IF A.4.5-1/24 THEN R ELSE N/A
C164	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.5-1/22) THEN R ELSE N/A
C165	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.5-1/22) THEN R ELSE N/A
C166	IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/22) THEN R ELSE N/A
C167	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/22) THEN R ELSE N/A
C168	IF (A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A
C169	IF A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A
C170	IF A.4.1-1/2 ANDA.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4a/1) THEN R ELSE N/A
C171	IF A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A
C172	IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A
C173	IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A
C174	IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A
C175	TBD
C176	TBD
C177	IF (A.4.1-1/2 AND A.4.5-1/22) THEN R ELSE N/A
C178	IF ((A.4.1-1/1) AND A.4.2-1/4 AND A.4.4-3a/103 AND A.4.5-1/22 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 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C179	IF ((A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3a/104 AND A.4.5-1/22 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 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C180	IF ((A.4.1-1/1) AND A.4.5-1/22 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C181	IF ((A.4.1-1/2) AND A.4.5-1/22 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C182	IF ((A.4.1-1/1) AND A.4.2-1/4 AND A.4.4-3a/103 AND A.4.5-1/22 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C183	IF ((A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3a/103 AND A.4.5-1/22 AND (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 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C184	IF (A.4.1-1/2 AND A.4.5-1/22) THEN R ELSE N/A
C185	IF (NOT(A.4.3-4a/1) AND (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 AND A.4.5-1/17) THEN R ELSE N/A
C186	IF A.4.3-3b/2 AND NOT(A.4.3-4a/1) THEN R ELSE N/A
Note 1:	Cxxxh applicability is defined for small cell enhancements for physical layer related test.

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 Multicluster 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.
D09	A.4.3-3 AND A.4.5-5	Bands supporting 4 Rx antenna ports
D10	A.4.3-3 AND A.4.5-6	Bands supporting ProSe Direct

Note: 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:

AND: Set intersection ($\cap$). {1,2} AND {2,3} = {2}

OR: Set union ($\cup$). {1,2} OR {2,3} = {1,2,3}

NOT: Set complement (\), full set being all bands. NOT{1} = {2 …256}

Also note that this is set without repetitions so {1} AND {1} = {1}

The following basic sets are used:

FDD: All FDD bands, currently {1…32, 65, 66}

TDD: All TDD bands, currently {33…64}

{1,2}: Explicitly given band set

The following sets derived from pro-forma tables are also used:

A.4.X-Y: All bands supporting the feature defined in A.4.X-Y. For A.4.3-3, all supported bands.

FALLBACK(A.4.6.X-Y): Fallback bands of supported CA Combinations defined in Table A.4.6.X-Y

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
E11	E04 AND NOT (FALLBACK(A.4.6.2-3) OR FALLBACK(A.4.6.3-3) OR FALLBACK(A.4.6.3-4))	All supported intra-band contiguous CA Configurations with 2 carriers in DL but no CA in UL, that are not fallbacks of 3DL CA, except of class D intra-band 3DL CA.
E12	E06 AND NOT (FALLBACK(A.4.6.2-3) OR FALLBACK(A.4.6.3-4))	All supported inter-band CA Configurations with 2 carriers in DL that are not fallbacks of inter-band on inter-band+intra-band non-contiguous 3DL CA.
DL_FALLBACKS	FALLBACK(A.4.6.1-3) OR FALLBACK(A.4.6.2-3) OR FALLBACK(A.4.6.3-3) OR FALLBACK(A.4.6.3-4)	All DL Fallbacks of supported CA Configurations
E13	E06 AND DL_ONLY_BAND	All supported inter-band CA Configurations with 2 carriers in DL where one of the bands is a DL-only band

Note: CA Configuration Selection is based on set theory. Each CA Configuration is designated by its name, including bands and BW classes, e.g. CA_1A-5A. The following operators are used:

AND: Set intersection ($\cap$). {CA_1C,CA_1A-5A} AND {CA_1C, CA_2A-4A } = CA_1C

OR: Set union ($\cup$). {CA_1C,CA_1A-5A} OR {CA_1C, CA_2A-4A } = {CA_1C,CA_1A-5A, CA_2A-4A}

NOT: Set complement (\), full set being all possible CA Configurations

Also note that this is set without repetitions so {CA_1C} AND {CA_1C} = {CA_1C}

The following basic sets are used:

FDD: All FDD-only CA Configurations

TDD: All TDD-only CA Configurations

FDD-TDD: All mixed CA Configurations

{CA_1C}: Explicitly given CA Configurations

CARRIER_NO(n): All CA Configurations with n Carriers, e.g. for n=2 CA_1C and CA_1A-5A would be a part of this set

BAND_NO(n): All CA Configurations containing n Bands, e.g.. for n=2, CA_1A-5A and CA_1A-41C are part of this set

BWCLASS(x): All CA Configurations containing BW Class x, e.g.. for x=C, CA_1C and CA_1A-41C are part of this set

DL_ONLY_BAND: All CA configurations containing a DL-only band, e.g. CA_20A-32A is part of this set

The following sets derived from pro-forma tables are also used:

A.4.6.X-Y: All supported DL CA Combinations defined in table A.4.6.X-Y

UL(A.4.6.X-Y): All DL CA Combinations that also support UL CA with any number of carriers >1, as per column 'Supported CA Bandwidth Class(es) in UL' defined in table A.4.6.X-Y.

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.

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

FALLBACK(A.4.6.X-Y): Fallback DL CA Combinations of supported CA Combinations defined in Table A.4.6.X-Y

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

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)[2]	X,Y	CA_XC, CA_XA-YA
CA_XB-YA(3 carrier intra-band contiguous + inter-band)[2]	X,Y	CA_XB, CA_XA-YA
CA_XA-XA-YA(3 carrier intra-band non-contiguous + inter-band)[2]	X,Y	CA_XA-YA, CA_XA-XA
CA_XC-XA(3 carrier intra-band non-contiguous + intra-band contiguous)[2]	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 (e.g.. YA-XC)		

4.2 RRM conformance test cases

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

NOTE: To determine applicability of a test case, FGI support in combined or fdd-Add-UE-EUTRA-Capabilities or tdd-Add-UE-EUTRA-Capabilities is taken into account.

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
E-UTRAN RRC_IDLE State Mobility						
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
4.2.12	E-UTRAN FDD – FDD Intra frequency case for Cat-M1 UE in normal coverage	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE category M1		
4.2.13	E-UTRAN HD – FDD Intra frequency case for Cat-M1 UE in normal coverage	Rel-13	C107a	UE supporting E-UTRA FD-FDD and UE category M1		
4.3.1.1	E-UTRA FDD - UTRAN FDD cell re-selection	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD		
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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
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		
E-UTRAN RRC_CONNECTED State Mobility						
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
5.1.4	E-UTRAN TDD - TDD Handover inter frequency case	Rel-8	C02d	UE supporting E-UTRA TDD and Feature Group Indicators 5, 13 and 25		
5.1.5	E-UTRAN FDD - FDD inter frequency handover: unknown target cell	Rel-8	C01a	UE supporting E-UTRA FDD and Feature Group Indicators 13 and 25		
5.1.6	E-UTRAN TDD-TDD inter frequency handover: unknown target cell	Rel-8	C02a	UE supporting E-UTRA TDD and Feature Group Indicators 13 and 25		
5.1.7	E-UTRAN FDD – TDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30		
5.1.8	E-UTRAN TDD – FDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30		
5.1.9	E-UTRAN FDD-FDD Intra frequency handover for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31		
5.1.10	E-UTRAN FDD-FDD Handover intra frequency handover for UE category 0	Rel-12	C94	UE supporting E-UTRA FD-FDD and UE Category 0		
5.1.11	E-UTRAN HD-FDD Handover intra frequency handover for UE category 0	Rel-12	C110	UE supporting E-UTRA HD-FDD and UE Category 0		
5.1.12	E-UTRAN TDD-TDD Handover intra frequency handover for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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 inter-RAT PS handover to GERAN and Feature Group Indicators 9, 15 and 23		
5.2.4	E-UTRAN TDD - UTRAN TDD handover	Rel-8	C05a	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 8 and 22		Rel-9 UTRA TDD
5.2.5	E-UTRAN FDD - UTRAN TDD handover	Rel-8	C06a	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 8 and 22		Rel-9 UTRA TDD
5.2.6	E-UTRA TDD - GSM handover	Rel-8	C09f	UE supporting E-UTRA TDD and GSM and inter-RAT PS handover to GERAN 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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
5.2.8	E-UTRAN FDD - GSM handover: unknown target cell	Rel-8	C08a	UE supporting E-UTRA FDD and GSM and inter-RAT PS handover to GERAN and inter-RAT PS handover to GERAN 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		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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.		
RRC Connection Mobility Control						
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		
6.1.6	E-UTRAN FD-FDD Intra-frequency RRC Re-establishment for UE category 0	Rel-12	C94	UE supporting E-UTRA FD-FDD and UE Category 0		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
6.1.7	E-UTRAN HD-FDD Intra-frequency RRC Re-establishment for UE category 0	Rel-12	C107	UE supporting E-UTRA HD-FDD and UE Category 0		
6.1.8	E-UTRAN TDD Intra-frequency RRC Re-establishment for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0		
6.1.9	E-UTRAN FD-FDD Intra-frequency RRC Re-establishment for Cat-M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
6.1.10	E-UTRAN HD-FDD Intra-frequency RRC Re-establishment for Cat-M1 UE in CEModeA	Rel-13	C107a	UE supporting E-UTRA HD-FDD and UE Category M1		
6.1.11	E-UTRAN TDD Intra-frequency RRC Re-establishment for Cat-M1 UE in CEModeA	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
6.2.10	E-UTRAN FDD Contention Based Random Access Test for Cat-M1 UEs in Normal Coverage	Rel-13	C94a	UE supporting E-UTRA FDD and UE Category M1		
6.2.11	E-UTRAN HD-FDD Contention Based Random Access Test for Cat-M1 UEs in Normal Coverage	Rel-13	C107a	UE supporting E-UTRA FDD and UE Category M1		
6.3.1	Redirection from E-UTRAN FDD to UTRAN FDD	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD		
6.3.2	Redirection from E-UTRAN TDD to UTRAN FDD	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD		
6.3.3	Redirection from E-UTRAN FDD to GERAN when System Information is provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN		
6.3.4	Redirection from E-UTRAN TDD to GERAN when System Information is provided	Rel-9	C28	UE supporting E-UTRA TDD and GERAN		
6.3.5	E-UTRA TDD RRC connection release redirection to UTRA TDD	Rel-9	C26	UE supporting E-UTRA TDD and UTRA TDD		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
Timing and Signalling Characteristics						
7.1.1	E-UTRAN FDD - UE Transmit Timing Accuracy	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5		
7.1.1_1	E-UTRAN FDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C23	UE supporting E-UTRA FDD but not supporting Feature Group Indicator 5		
7.1.2	E-UTRAN TDD - UE Transmit Timing Accuracy	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
7.1.3_1	E-UTRAN FDD – UE Transmit Timing Accuracy Tests for SCell (Release 12 and forward)	Rel-12	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	Either TC 7.1.4 or TC 7.1.4A shall be executed. (Note 1)	
7.1.4A	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for SCell for 20 MHz +10 MHz bandwidth	Rel-11	C58a	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and Feature Group Indicator 5	Either TC 7.1.4 or TC 7.1.4A shall be executed. (Note 1)	
7.1.4_1	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for SCell (Release 12 and forward)	Rel-12	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-11	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-11	C64	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5	Either TC 7.1.7 or TC 7.1.7A or TC 7.1.7B shall be executed. (Note 1)	
7.1.7A	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for SCell in sTAG for 20MHz +20MHz bandwidth	Rel-11	C64a	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5	Either TC 7.1.7 or TC 7.1.7A or TC 7.1.7B shall be executed. (Note 1)	
7.1.7B	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for SCell in sTAG for 20MHz +10MHz bandwidth	Rel-11	C64b	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5	Either TC 7.1.7 or TC 7.1.7A or TC 7.1.7B shall be executed. (Note 1)	
7.1.10	E-UTRAN FDD – UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeA	Rel-13	C94b	UE supporting E-UTRA FDD and UE Category M1 and Feature Group Indicator 5		
7.1.11	E-UTRAN HD-FDD – UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeA	Rel-13	C107c	UE supporting E-UTRA HD-FDD and UE Category M1 and Feature Group Indicator 5		
7.2.1	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy	Rel-8	C01	UE supporting E-UTRA FDD		
7.2.2	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy	Rel-8	C02	UE supporting E-UTRA TDD		
7.2.3	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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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-11	C62	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances	Either TC 7.2.5 or TC 7.2.5A or TC 7.2.5B shall be executed. (Note 1)	
7.2.5A	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy Test for SCell in sTAG for 20MHz +20MHz bandwidth	Rel-11	C62a	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances	Either TC 7.2.5 or TC 7.2.5A or TC 7.2.5B shall be executed. (Note 1)	
7.2.5B	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy Test for SCell in sTAG for 20MHz +10MHz bandwidth	Rel-11	C62b	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances	Either TC 7.2.5 or TC 7.2.5A or TC 7.2.5B shall be executed. (Note 1)	
7.3.1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C01	UE supporting E-UTRA FDD		
7.3.2	E-UTRAN FDD Radio Link Monitoring Test for In-Sync	Rel-8	C01	UE supporting E-UTRA FDD		
7.3.3	E-UTRAN TDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C02	UE supporting E-UTRA TDD		
7.3.4	E-UTRAN TDD Radio Link Monitoring Test for In-Sync	Rel-8	C02	UE supporting E-UTRA TDD		
7.3.5	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5		

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
7.3.17	E-UTRAN FDD Radio Link Monitoring Test for Out-of-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 and Feature Group Indicator 115		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
7.3.18	E-UTRAN TDD Radio Link Monitoring Test for Out-of-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 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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
7.3.26	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync for UE category 0	Rel-12	C94	UE supporting E-UTRA FD-FDD and UE Category 0		
7.3.27	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync for UE category 0	Rel-12	C94	UE supporting E-UTRA FD-FDD and UE Category 0		
7.3.28	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category 0	Rel-12	C95	UE supporting E-UTRA FD-FDD and Feature Group Indicator 5 and UE Category 0		
7.3.29	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync in DRX for UE category 0	Rel-12	C95	UE supporting E-UTRA FD-FDD and Feature Group Indicator 5 and UE Category 0		
7.3.30	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync for UE category 0	Rel-12	C110	UE supporting E-UTRA HD-FDD and UE Category 0		
7.3.31	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync for UE category 0	Rel-12	C110	UE supporting E-UTRA HD-FDD and UE Category 0		
7.3.32	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category 0	Rel-12	C111	UE supporting E-UTRA HD-FDD and Feature Group Indicator 5 and UE Category 0		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
7.3.33	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync in DRX for UE category 0	Rel-12	C111	UE supporting E-UTRA HD-FDD and Feature Group Indicator 5 and UE Category 0		
7.3.34	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0		
7.3.35	E-UTRAN TDD Radio Link Monitoring Test for In-sync for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0		
7.3.36	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0		
7.3.37	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0		
7.3.38	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for Out-of-sync in DRX in synchronous DC	Rel-12	C123	UE supporting E-UTRA FDD and Dual Connectivity		
7.3.39	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for Out-of-sync in DRX in asynchronous DC	Rel-12	C125	UE supporting E-UTRA FDD and asynchronous Dual Connectivity		
7.3.40	E-UTRAN TDD-TDD DC Radio Link Monitoring Test for Out-of-sync in DRX in synchronous DC	Rel-12	C124	UE supporting E-UTRA TDD and Dual Connectivity		
7.3.41	E-UTRAN FDD-FDD Radio Link Monitoring Test for In-sync in DRX in synchronous dual connectivity	Rel-12	C123	UE supporting E-UTRA FDD and Dual Connectivity		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
7.3.42	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for In-sync in DRX in asynchronous DC	Rel-12	C125	UE supporting E-UTRA FDD and asynchronous Dual Connectivity		
7.3.43	E-UTRAN TDD-TDD Radio Link Monitoring Test for In-sync in DRX in synchronous dual connectivity	Rel-12	C124	UE supporting E-UTRA TDD and Dual Connectivity		
7.3.48	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync for Cat-M1 UE in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
7.3.49	E-UTRAN FD-FDD Radio Link Monitoring Test for In-Sync for Cat-M1 UE in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
7.3.50	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category M1 configured in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
7.3.51	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync in DRX for UE Category M1 configured in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
7.3.52	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category CAT-M1	Rel-13	C107a	UE supporting E-UTRA HD-FDD and UE Category M1		
7.3.53	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync for UE category CAT-M1	Rel-13	C107a	UE supporting E-UTRA HD-FDD and UE Category M1		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
7.3.54	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category M1 configured in CEMode A	Rel-13	C107a	UE supporting E-UTRA HD-FDD and UE Category M1		
7.3.55	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync in DRX for UE Category M1 configured in CEMode A	Rel-13	C107a	UE supporting E-UTRA HD-FDD and UE Category M1		
UE Measurements Procedures						
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.1.6	E-UTRAN FDD - FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra-frequency SI acquisition for HO		
8.1.7	E-UTRAN FDD-FDD Intra-Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115		
8.1.8	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 and Feature Group Indicator 115		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.1.11	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 0	Rel-12	C94	UE supporting E-UTRA FD-FDD and UE Category 0		
8.1.12	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 0	Rel-12	C95	UE supporting E-UTRA FD-FDD and Feature Group Indicator 5 and UE Category 0		
8.1.13	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 0	Rel-12	C95	UE supporting E-UTRA FD-FDD and Feature Group Indicator 5 and UE Category 0		
8.1.14	E-UTRAN HD-FDD intra-frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 0	Rel-12	C112	UE supporting E-UTRA HD-FDD and Feature Group Indicator 5 and UE Category 0		
8.1.15	E-UTRAN HD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 0	Rel-12	C112	UE supporting E-UTRA HD-FDD and Feature Group Indicator 5 and UE Category 0		
8.1.16	E-UTRAN HD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 0	Rel-12	C112	UE supporting E-UTRA HD-FDD and Feature Group Indicator 5 and UE Category 0		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.1.17	E-UTRAN TDD-TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0		
8.1.18	E-UTRAN TDD-TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0		
8.1.19	E-UTRAN FD - FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 0	Rel-12	C108	UE supporting E-UTRA FD-FDD, CSG and intra-frequency SI acquisition for HO and Category 0		
8.1.20	E-UTRAN FDD - FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 0	Rel-12	C108	UE supporting E-UTRA FD-FDD, CSG and intra-frequency SI acquisition for HO and Category 0		
8.1.21	E-UTRAN HD - FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 0	Rel-12	C109	UE supporting E-UTRA HD-FDD, CSG and intra-frequency SI acquisition for HO and Category 0		
8.1.22	E-UTRAN HD- FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 0	Rel-12	C109	UE supporting E-UTRA HD-FDD, CSG and intra-frequency SI acquisition for HO and Category 0		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.1.23	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
8.1.24	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD-FDD and UE Category M1		
8.1.25	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeA in DRX	Rel-13	C94b	UE supporting E-UTRA FD-FDD and UE Category M1 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 and Feature Group Indicator 115		
8.2.7	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 0	Rel-12	C113	UE supporting E-UTRA TDD, CSG. inter-frequency SI acquisition for HO and Feature Group Indicator 5 and UE Category 0		
8.2.8	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 0	Rel-12	C113	UE supporting E-UTRA TDD, CSG. inter-frequency SI acquisition for HO and Feature Group Indicator 5 and UE Category 0		
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.	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.3.2	E-UTRAN FDD-FDD inter-frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25		
8.3.3	E-UTRAN FDD-FDD inter frequency event triggered reporting under AWGN propagation conditions in asynchronous cells with DRX when L3 filtering is used	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25		
8.3.4	E-UTRAN FDD - FDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter-frequency SI acquisition for HO		
8.3.5	E-UTRAN FDD - FDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter-frequency SI acquisition for HO		
8.3.6	E-UTRAN FDD-FDD Inter-frequency event triggered reporting without measurement gaps under AWGN propagation conditions in asynchronous cells	Rel-10	C47	UE supporting E-UTRA FDD and Feature Group Indicator 25 and Measurement without gaps		
8.4.1	E-UTRAN TDD-TDD inter-frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.2 case is executed.	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.4.2	E-UTRAN TDD-TDD inter-frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25		
8.4.3	E-UTRAN TDD-TDD inter-frequency event triggered reporting under AWGN propagation conditions in synchronous cells with DRX when L3 filtering is used	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25		
8.4.4	E-UTRAN TDD - TDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter-frequency SI acquisition for HO		
8.4.5	E-UTRAN TDD - TDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter-frequency SI acquisition for HO		
8.5.1	E-UTRAN FDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04g	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.3 case is executed.	
8.5.2	E-UTRAN FDD-UTRAN FDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C04f	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 19 and 22		
8.5.3	E-UTRAN FDD - UTRAN FDD event triggered reporting when DRX is used under fading propagation conditions	Rel-8	C04d	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 15 and 22		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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		
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 Only	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.	
		Rel-9	C83	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD 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.	
		Rel-9	C79	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 15 and 39	It is not necessary for CA UEs to be tested in this test if 8.20.4 case is executed	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.7.2	E-UTRAN TDD - UTRAN TDD cell search when DRX is used under fading propagation conditions	Rel-8 Only	C05d	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 5, 15 and 22		Rel-9 UTRA TDD
		Rel-9	C84	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 5, 15 and 22		Rel-9 UTRA TDD
		Rel-9	C80	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 5, 15 and 39		Rel-9 UTRA TDD
8.7.3	E-UTRAN TDD - UTRAN TDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8 Only	C120	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 19 and 22		Rel-9 UTRA TDD
		Rel-9	C121	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 22 and 37		Rel-9 UTRA TDD
		Rel-9	C122	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 37 and 39		Rel-9 UTRA TDD
8.7.4	E-UTRAN TDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C79	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 15 and 39		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
		Rel-9	C31	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicator 15 and 22		
8.8.1	E-UTRAN FDD-GSM event triggered reporting in AWGN	Rel-8	C08f	UE supporting E-UTRA FDD and GSM and Feature Group Indicator s 15 and 23		
8.8.2	E-UTRAN FDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C08d	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 5, 15 and 23		
8.9.1	E-UTRAN FDD-UTRAN TDD event triggered reporting in fading propagation conditions	Rel-8 Only	C06b	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 22		Rel-9 UTRA TDD
		Rel-9	C85	UE supporting E-UTRA FDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 15 and 22		Rel-9 UTRA TDD
		Rel-9	C77	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 39		Rel-9 UTRA TDD
8.9.2	E-UTRAN FDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C78	UE supporting E-UTRA FDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicator 15 and 22		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
		Rel-9	C77	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 39		
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 Only	C05e	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 22 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
		Rel-9	C86	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 22 and 25		
		Rel-9	C82	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 25 and 39		
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		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.14.3	E-UTRAN TDD - FDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRA FDD and E-UTRA TDD, CSG and inter-frequency SI acquisition for HO and Feature Group Indicator 25		
8.15.1	E-UTRAN FDD-TDD Inter-frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25		
8.15.2	E-UTRAN FDD-TDD Inter-frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-9	C38	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 4 and 25		
8.15.3	E-UTRAN FDD - TDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRA FDD and E-UTRA TDD, CSG and inter-frequency SI acquisition for HO and Feature Group Indicator 25		
8.16.1	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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-UTRANTDD-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)	
8.16.5	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C32c	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	C33c	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	C32c	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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.8	E-UTRAN TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 20 MHz bandwidth	Rel-10	C33c	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)	
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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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)	
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	Either TC 8.16.17 or TC 8.16.17A shall be executed. (Note 1)	
8.16.17A	E-UTRAN FDD activation and deactivation of known SCell in non-DRX for 20MHz +20MHz bandwidth	Rel-10	C32c	UE supporting E-UTRA FDD and CA and Feature Group Indicator 25	Either TC 8.16.17 or TC 8.16.17A shall be executed. (Note 1)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	Either TC 8.16.18 or TC 8.16.18A shall be executed. (Note 1)	
8.16.18 A	E-UTRAN TDD activation and deactivation of known SCell in non-DRX for 20MHz +20MHz bandwidth	Rel-10	C33c	UE supporting E-UTRA TDD and CA and Feature Group Indicator 25	Either TC 8.16.18 or TC 8.16.18A shall be executed. (Note 1)	
8.16.21	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 20MHz+10MHz	Rel-10	C33d	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	C33d	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)	
8.16.23	E-UTRAN TDD-FDD CA event triggered reporting under deactivated SCell in non-DRX with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell and Feature Group Indicator 111		
8.16.24	E-UTRAN TDD-FDD CA event triggered reporting under deactivated SCell in non-DRX with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell and Feature Group Indicator 111		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.25	E-UTRAN TDD-FDD CA event triggered reporting on deactivated SCell with PCell interruption in non-DRX with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell and Feature Group Indicator 111		
8.16.26	E-UTRAN TDD-FDD CA event triggered reporting on deactivated SCell with PCell interruption in non-DRX with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell and Feature Group Indicator 111		
8.16.27	E-UTRAN TDD-FDD 3 DL CA Event Triggered Reporting under Deactivated SCells in Non-DRX with PCell in FDD	Rel-12	C69	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell		
8.16.28	E-UTRAN TDD-FDD 3DL CA Event Triggered Reporting under Deactivated SCells in Non-DRX with PCell in TDD	Rel-12	C70	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell		
8.16.29	3DL FDD CA Event Triggered Reporting under Deactivated SCells in Non-DRX	Rel-10	C71	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		
		Rel-11	C72	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.30	3DL TDD CA Event Triggered Reporting under Deactivated SCells in Non-DRX	Rel-10	C73	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		
		Rel-11	C74	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		
8.16.31	E-UTRAN TDD-FDD 3DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX and with PCell in FDD	Rel-12	C69	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell		
8.16.32	E-UTRAN TDD-FDD 3DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX and with PCell in TDD	Rel-12	C70	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell		
8.16.33	E-UTRAN FDD 3DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-10	C71	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
		Rel-11	C72	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		
8.16.34	E-UTRAN TDD 3 DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-10	C73	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		
		Rel-11	C74	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		
8.16.35	E-UTRAN TDD-FDD 3 DL CA activation and deactivation of known SCell in non-DRX with PCell in FDD	Rel-12	C130	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 25		
8.16.36	E-UTRAN TDD-FDD 3 DL CA activation and deactivation of known SCell in non-DRX with PCell in TDD	Rel-12	C131	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.37	3DL FDD CA activation and deactivation of known SCell in non-DRX	Rel-10	C91	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25		
		Rel-11	C92	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25		
8.16.38	3DL TDD CA activation and deactivation of known SCell in non-DRX	Rel-10	C132	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25		
		Rel-11	C133	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.16.39	E-UTRA TDD-FDD 3DL CA Activation and Deactivation of Unknown SCell in Non-DRX with PCell in FDD	Rel-12	C130	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 25		
8.16.40	E-UTRA TDD-FDD 3DL CA Activation and Deactivation of Unknown SCell in Non-DRX with PCell in TDD	Rel-12	C131	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 25		
8.16.41	3DL FDD CA activation and deactivation of unknown SCell in non-DRX	Rel-10	C91	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25		
		Rel-11	C92	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25		
8.16.42	3DL TDD CA activation and deactivation of unknown SCell in non-DRX	Rel-10	C132	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
		Rel-11	C133	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25		
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	C19a	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
8.20.2B	E-UTRAN TDD-TDD Inter-frequency event triggered reporting under fading propagation conditions in synchronous cells for 20 MHz +10 MHz bandwidth	Rel-10	C19b	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)	
8.20.3	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	C44a	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	C44b	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)	
8.22.1	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells in DRX based on CRS based discovery signal	Rel-12	C01ch	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 5		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.22.2	E-UTRAN TDD-TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-12	C02ch	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 5		
8.22.3	E-UTRAN FDD-FDD inter-frequency event triggered reporting under fading propagation conditions in DRX based on CRS based discovery signal	Rel-12	C01eh	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicators 5 and 25		
8.22.4	E-UTRAN TDD-TDD inter-frequency event triggered reporting under fading propagation conditions in DRX based on CRS based discovery signal	Rel-12	C02eh	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicators 5 and 25		
8.22.5	E-UTRAN FDD-FDD intra-frequency event triggered reporting in DRX based on CSI-RS based discovery signal	Rel-12	C97	UE supporting E-UTRA FDD and CSI-RS based discovery signals measurement and Feature Group Indicator 5		
8.22.6	E-UTRAN TDD-TDD intra-frequency event triggered reporting in DRX based on CSI-RS based discovery signal	Rel-12	C98	UE supporting E-UTRA TDD and CSI-RS based discovery signals measurement and Feature Group Indicator 5		
8.22.7	E-UTRAN FDD-FDD Inter-frequency event triggered reporting in DRX based on CSI-RS based discovery signal	Rel-12	C99	UE supporting E-UTRA FDD and CSI-RS based discovery signals measurement and Feature Group Indicators 5 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
8.22.8	E-UTRAN TDD-TDD inter-frequency event triggered reporting under fading propagation condition in DRX based on CSI-RS based discovery signal	Rel-12	C100	UE supporting E-UTRA TDD and CSI-RS based discovery signals measurement and Feature Group Indicators 5 and 25		
8.22.9	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX based on CRS based discovery signal	Rel-12	C126	UE supporting E-UTRA FDD and CA and CRS based discovery signal measurement and Feature Group Indicators 111		
8.22.10	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX based on CRS based discovery signal	Rel-12	C126	UE supporting E-UTRA TDD and CA and CRS based discovery signal measurement and Feature Group Indicators 111		
8.22.11	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX based on CSI-RS based discovery signal	Rel-12	TBD	TBD		
8.22.12	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX based on CSI-RS based discovery signal	Rel-12	TBD	TBD		
Measurement Performance Requirements						
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.1.2	FDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16		
9.1.2.1	TDD Intra Frequency Absolute RSRP Accuracy	Rel-8 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		

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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)	
9.1.6.2	FDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)	
9.1.6.2_1	FDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.7.2	TDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 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)	
9.1.7.2_1	TDD Relative RSRP Accuracy E-UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 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		
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		

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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	C18a	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	C18a	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)	
9.1.12.2	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C18a	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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.12.2_1	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C18a	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 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	C19a	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	C19a	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 and Rel-11 only	C19a	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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.13.2_1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C19a	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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 and Feature Group Indicator 115		
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 and Feature Group Indicator 115		
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		

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.19.1	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)	
9.1.19.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 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)	
9.1.19.2_1	TDD Relative 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 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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 and Rel-11 only	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)	
9.1.20.2_1	FDD Relative 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 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 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)	
9.1.21.1_1	TDD Absolute 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)	

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.21.2	TDD Relative 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 9.1.7.2 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)	
9.1.21.2_1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)	
9.1.22	FDD-TDD RSRP Accuracy E-UTRA for Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell		
9.1.23	FDD-TDD RSRP Accuracy E-UTRA for Carrier Aggregation with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell		
9.1.24.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	Rel-10 and Rel-11 only	C19b	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)	
9.1.24.1_1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz (Rel-12 and forward)	Rel-12	C19b	UE supporting E-UTRA TDD and CA		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.24.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	Rel-10 and Rel-11 only	C19b	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)	
9.1.24.2_1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz (Rel-12 and forward)	Rel-12	C19b	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)	
9.1.25	FDD intra-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C101	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16		
9.1.26	TDD intra-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C102	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16		
9.1.27	FDD—FDD inter-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C103	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.28	TDD—TDD inter-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C104	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25		
9.1.29	FDD intra frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C114	UE supporting E-UTRA FDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16		
9.1.30	TDD intra frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C115	UE supporting E-UTRA TDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16		
9.1.31	FDD—FDD inter-frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C116	UE supporting E-UTRA FDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16 and 25		
9.1.32	TDD—TDD inter-frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C117	UE supporting E-UTRA TDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16 and 25		
9.1.33	FDD absolute and relative RSRP accuracies for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C128	UE supporting E-UTRA FDD and CA and CRS based discovery signal measurement		
9.1.34	TDD absolute and relative RSRP accuracies for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C129	UE supporting E-UTRA TDD and CA and CRS based discovery signal measurement		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.35	FDD absolute and relative CSI-RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal	Rel-12	C118	UE supporting E-UTRA FDD and CA and CSI-RS based discovery signal measurement		
9.1.36	TDD absolute and relative CSI-RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal	Rel-12	C119	UE supporting E-UTRA TDD and CA and CSI-RS based discovery signal measurement		
9.1.37	3DL PCell in FDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C69	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell		
9.1.38	3DL PCell in TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C70	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell		
9.1.39	3DL FDD RSRP for E-UTRAN in Carrier Aggregation	Rel-10 and Rel-11 only	C71	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		
		Rel-11 only	C72	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		
9.1.39_1	3DL FDD RSRP for E-UTRAN in Carrier Aggregation(Rel-12 and forward)	Rel-12	C75	UE supporting E-UTRA FDD and 3DL CA		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.40	3DL TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-10 and Rel-11 only	C73	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DLwith intra-band contiguous and inter-band CA		
		Rel-11 only	C74	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		
9.1.40_1	3DL TDD RSRP for E-UTRAN in Carrier Aggregation (Rel-12 and forward)	Rel-12	C76	UE supporting E-UTRA TDD and 3DL CA		
9.1.41.1	FD-FDD Intra Frequency Absolute RSRP Accuracy for UE category 0	Rel-12	C88	UE supporting E-UTRA FD-FDD (UE Category 0) and Feature Group Indicator 16		
9.1.41.2	FD-FDD Intra Frequency Relative RSRP Accuracy for UE category 0	Rel-12	C88	UE supporting E-UTRA FD-FDD (UE Category 0) and Feature Group Indicator 16		
9.1.42.1	HD-FDD Intra Frequency Absolute RSRP Accuracy for UE category 0	Rel-12	C89	UE supporting E-UTRA HD-FDD (UE category 0) and Feature Group Indicator 16		
9.1.42.2	HD-FDD Intra Frequency Relative RSRP Accuracy for UE category 0	Rel-12	C89	UE supporting E-UTRA HD-FDD (UE category 0) and Feature Group Indicator 16		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.1.43.1	TDD Intra Frequency Absolute RSRP Accuracy for UE category 0	Rel-12	C90	UE supporting E-UTRA TDD (UE Category 0) and Feature Group Indicator 16		
9.1.43.2	TDD Intra Frequency Relative RSRP Accuracy for UE category 0	Rel-12	C90	UE supporting E-UTRA TDD (UE Category 0) and Feature Group Indicator 16		
9.1.52	FD-FDD RSRP Intra frequency case for Cat-M1 UE in CEModeA	Rel-13	C94c	UE supporting E-UTRA FD-FDD and UE Category M1 and Feature Group Indicator 16		
9.1.53	HD-FDD RSRP Intra frequency case for Cat-M1 UE in CEModeA	Rel-13	C107d	UE supporting E-UTRA HD-FDD and UE Category M1 and Feature Group Indicator 16		
9.1.54	TDD RSRP Intra frequency case for Cat-M1 UE in CEModeA	Rel-13	C93b	UE supporting E-UTRA TDD and UE Category M1 and Feature Group Indicator 16		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.4.1	TDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.4.2	TDD -TDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.4A.1	FDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.4A.2	FDD - TDD Inter Frequency Relative Accuracy of RSRQ	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25		
9.2.5.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	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)	

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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)	
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)	
9.2.15.1	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 and Feature Group Indicator 115		
9.2.16.1	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 and Feature Group Indicator 115		

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

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

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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)	
9.2.25.1	Absolute RSRQ Accuracy for E-UTRAN TDD-FDD Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell		
9.2.25.2	Relative RSRQ Accuracy for E-UTRAN TDD-FDD Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell		
9.2.26.1	Absolute RSRQ Accuracy for E-UTRAN TDD-FDD Carrier Aggregation with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell		
9.2.26.2	Relative RSRQ Accuracy for E-UTRAN TDD-FDD Carrier Aggregation with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell		
9.2.27.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz+10MHz	Rel-10	C19b	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	C19b	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
9.2.28	FDD intra-frequency absolute RSRQ accuracy with CRS based discovery signal	Rel-12	C101	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16		
9.2.29	TDD intra-frequency absolute RSRQ accuracy with CRS based discovery signal	Rel-12	C102	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16		
9.2.30	FDD-FDD inter-frequency absolute and relative RSRQ accuracies with CRS based discovery signal	Rel-12	C103	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25		
9.2.31	TDD-TDD inter-frequency absolute and relative RSRQ accuracies with CRS based discovery signal	Rel-12	C104	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25		
9.2.32	FDD absolute and relative RSRQ accuracy for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C128	UE supporting E-UTRA FDD and CA and CRS based discovery signal measurement		
9.2.33	TDD absolute and relative RSRQ accuracy for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C129	UE supporting E-UTRA TDD and CA and CRS based discovery signal measurement		
9.2.38	3DL PCell in FDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-12	C69	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.39	3 DL PCell in TDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-12	C70	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell		
9.2.40	3 DL FDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-10	C71	UE supporting E-UTRA FDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		
		Rel-11	C72	UE supporting E-UTRA FDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		
9.2.41	3DL TDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-10	C73	UE supporting E-UTRA TDD and 3DL with intra-band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA		
		Rel-11	C74	UE supporting E-UTRA TDD and 3DL with intra-band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
9.2.42.1	FD-FDD Intra Frequency Absolute RSRQ Accuracy for UE category 0	Rel-12	C88	UE supporting E-UTRA FD-FDD (UE Category 0) and Feature Group Indicator 16		
9.2.43.1	HD-FDD Intra Frequency Absolute RSRQ Accuracy for UE category 0	Rel-12	C89	UE supporting E-UTRA HD-FDD (UE Category 0) and Feature Group Indicator 16		
9.2.44.1	TDD Intra Frequency Absolute RSRQ Accuracy for UE category 0	Rel-12	C90	UE supporting E-UTRA TDD (UE Category 0) and Feature Group Indicator 16		
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-9	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-9	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
		Rel-9	C105	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 22 and not supporting UTRA FDD		
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		
		Rel-9	C106	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 22 and not supporting UTRA FDD		
9.6.1	GSM RSSI accuracy for E-UTRAN FDD	Rel-9	C08g	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 16 and 23		
9.6.2	GSM RSSI accuracy for E-UTRAN TDD	Rel-9	C09h	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 16 and 23		
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		

Clause	Title	Release	Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT
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.4.4-1a/13 AND A.4.4-1a/25) THEN R ELSE N/A
C01b	IF (A.4.1-1/1 AND A.4.4-1a/25) THEN R ELSE N/A
C01c	IF (A.4.1-1/1 AND A.4.4-1a/5) THEN R ELSE N/A
C01ch	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/5) THEN R ELSE N/A
C01d	IF (A.4.1-1/1 AND A.4.4-1 a/5 AND A.4.4-1a/13 AND A.4.4-1a/25) THEN R ELSE N/A
C01e	IF (A.4.1-1/1 AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C01eh	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C01f	IF (A.4.1-1/1 AND A.4.4-1a/16) THEN R ELSE N/A
C01g	IF (A.4.1-1/1 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A
C01h	IF (A.4.1-1/1 AND A.4.4-1a/16 AND A.4.4-1a/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.4.4-1b/13 AND A.4.4-1b/25) THEN R ELSE N/A
C02b	IF (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A
C02c	IF (A.4.1-1/2 AND A.4.4-1b/5) THEN R ELSE N/A
C02ch	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/5) THEN R ELSE N/A
C02d	IF (A.4.1-1/2 AND A.4.4-1b/5 AND A.4.4-1b/13 AND A.4.4-1b/25) THEN R ELSE N/A
C02e	IF (A.4.1-1/2 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C02eh	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C02f	IF (A.4.1-1/2 AND A.4.4-1b/16) THEN R ELSE N/A
C02g	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25) THEN R ELSE N/A
C02h	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/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.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A
C04b	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22) THEN R ELSE N/A
C04c	Void
C04d	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C04e	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A
C04f	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/19 AND A.4.4-1a/22) THEN R ELSE N/A
C04g	IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/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.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A
C05b	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A
C05c	Void
C05d	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A
C05e	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/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.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A
C06b	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-1a/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.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A
C07b	IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/15 AND A.4.4-1b/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.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/23) THEN R ELSE N/A
C08b	IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23 AND A.4.4-1a/25) THEN R ELSE N/A
C08c	IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/22) THEN R ELSE N/A
C08d	IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A
C08e	IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A
C08f	IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A
C08g	IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/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.4.4-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A
C09b	IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A
C09c	IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/22) THEN R ELSE N/A
C09d	Void
C09e	IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A
C09f	IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A
C09g	IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A
C09h	IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/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.4.4-1a/12 AND A.4.4-1a/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.4.4-1a/11 AND A.4.4-1a/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
C18a	IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A
C18b	IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/8 THEN R ELSE N/A
C19	IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A
C19a	IF (A.4.1-1/2 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A
C19b	IF (A.4.1-1/2 AND A.4.2-1/2) AND A.4.3-3a/8 THEN R ELSE N/A
C20	Void
C21	IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/5 AND A.4.4-1b/5) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND (A.4.4-1a/30 AND A.4.4-1b/30) THEN R ELSE N/A
C22	IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A
C23	IF (A.4.1-1/1 AND NOT A.4.4-1a/5) THEN R ELSE N/A
C24	IF (A.4.1-1/2 AND NOT A.4.4-1b/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.4.4-1a/15) THEN R ELSE N/A
C30	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15) THEN R ELSE N/A
C31	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/15) THEN R ELSE N/A
C32	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3a/111) THEN R ELSE N/A
C32a	Void
C32b	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A
C32c	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3a/111) AND A.4.3-3a/7 THEN R ELSE N/A
C33	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) THEN R ELSE N/A
C33a	Void
C33b	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A
C33c	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) AND A.4.3-3a/7 THEN R ELSE N/A
C33d	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) AND A.4.3-3a/8 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.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A
C37	IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A
C38	IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/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.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A
C40	IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A
C41	IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A
C42	IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/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.4.4-1a/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.4.4-1b/15) THEN R ELSE N/A
C44a	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A
C44b	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A
C45	IF (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A
C46	IF (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A
C47	IF (A.4.1-1/1 AND A.4.4-1a/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.4.4-1a/15 AND A.4.4-1a/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.4.4-1a/16) THEN R ELSE N/A
C51	IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/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.4.4-1a/8 AND A.4.4-1a/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.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A

C56	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.4-1a/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.4.4-1a/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.4.4-1b/5) THEN R ELSE N/A
C58a	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.4.4-1b/5) AND A.4.3-3a/8 THEN R ELSE N/A
C59	IF (A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115) THEN R ELSE N/A
C60	IF (A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2 AND A.4.4-3b/115) 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
C62a	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.4.3-3a/7) THEN R ELSE N/A
C62b	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.4.3-3a/8) 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.4.4-1a/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.4.4-1b/5) THEN R ELSE N/A
C64a	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.4.4-1b/5 AND A.4.3-3a/7) THEN R ELSE N/A
C64b	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.4.4-1b/5 AND A.4.3-3a/8) THEN R ELSE N/A
C65	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-2a/39) THEN R ELSE N/A
C66	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-2b/39) THEN R ELSE N/A
C67	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A
C68	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A
C69	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A
C70	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A
C71	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C72	IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A
C73	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C74	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A
C75	IF (A.4.1-1/1 AND A.4.6-1/2) THEN ELSE N/A
C76	IF (A.4.1-1/2 AND A.4.6-1/2) THEN ELSE N/A
C77	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-2a/39) THEN R ELSE N/A
C78	IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C79	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/15 AND A.4.4-2b/39) THEN R ELSE N/A
C80	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-2b/39) THEN R ELSE N/A
C81	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-2b/39) THEN R ELSE N/A
C82	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/25 AND A.4.4-2b/39) THEN R ELSE N/A
C83	IF (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A
C84	IF (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A
C85	IF (A.4.1-1/1 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C86	IF (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE N/A
C87	IF (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/15) THEN R ELSE N/A
C88	IF (A.4.1-1/1 AND A.4.3-4a/1 AND A.4.4-1a/16) THEN R ELSE N/A
C89	IF (A.4.1-1/1 AND A.4.3-4a/1 AND A.4.3-7/2 AND A.4.4-1a/16) THEN R ELSE N/A
C90	IF (A.4.1-1/2 AND A.4.3-4a /1 AND A.4.4-1b/16) THEN R ELSE N/A
C91	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.4-1a/25) THEN R ELSE N/A
C92	IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND A.4.4-1a/25) THEN R ELSE N/A
C93	IF A.4.1-1/2 AND A.4.3-4a/1 THEN R ELSE N/A
C93a	IF A.4.1-1/2 AND AND A.4.3-4aa/1 THEN R ELSE N/A
C93b	IF A.4.1-1/2 AND AND A.4.3-4aa/1 AND A.4.4-1a/16 THEN R ELSE N/A
C94	IF A.4.1-1/1 AND A.4.3-4a/1 THEN R ELSE N/A
C94a	IF A.4.1-1/1 AND A.4.3-4aa/1 THEN R ELSE N/A
C94b	IF A.4.1-1/1 AND A.4.3-4aa/1 AND A.4.4-1a/5 THEN R ELSE N/A
C94c	IF A.4.1-1/1 AND A.4.3-4aa/1 AND A.4.4-1a/16 THEN R ELSE N/A
C94d	IF A.4.1-1/1 AND (A.4.3-4aa/1 OR A.4.5-1/25) THEN R ELSE N/A

C95	IF A.4.1-1/1 AND A.4.4-1a/5 AND A.4.3-4a/1 THEN R ELSE N/A
C96	IF A.4.1-1/2 AND A.4.4-1b/5 AND A.4.3-4a/1 THEN R ELSE N/A
C97	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/5) THEN R ELSE N/A
C98	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/5) THEN R ELSE N/A
C99	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C100	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C101	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/16) THEN R ELSE N/A
C102	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/16) THEN R ELSE N/A
C103	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A
C104	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/16 AND A.4.4-1b/25) THEN R ELSE N/A
C105	IF (A.4.1-1/1 AND A.4.1-1/4 AND (NOT A.4.1-1/3) AND A.4.4-1a/22) THEN R ELSE N/A
C106	IF (A.4.1-1/2 AND A.4.1-1/4 AND (NOT A.4.1-1/3) AND A.4.4-1b/22) THEN R ELSE N/A
C107	IF A.4.1-1/1 AND A.4.3-4a/1 AND A.4.3-7/2 THEN R ELSE N/A
C107a	IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4aa/1 THEN R ELSE N/A
C107b	IF A.4.1-1/1 AND AND A.4.3-7/2 AND (A.4.3-4aa/1 OR A.4.5-1/25) THEN R ELSE N/A
C107c	IF A.4.1-1/1 AND AND A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.4-1a/5 THEN R ELSE N/A
C107d	IF A.4.1-1/1 AND AND A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.4-1a/16 THEN R ELSE N/A
C108	IF A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/2 AND A.4.3-4a/1 THEN R ELSE N/A
C109	IF A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/2 AND A.4.3-4a/1 AND A.4.3-7/2 THEN R ELSE N/A
C110	IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4a/1 THEN R ELSE N/A
C111	IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.4-1a/5 AND A.4.3-4a/1 THEN R ELSE N/A
C112	IF A.4.1-1/1 AND A.4.4-1a/5 AND A.4.3-4a/1 AND A.4.3-7/2 THEN R ELSE N/A
C113	IF A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1b/5 AND A.4.3-4a/1 THEN R ELSE N/A
C114	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/16) THEN R ELSE N/A
C115	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/16) THEN R ELSE N/A
C116	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A
C117	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/16 AND A.4.4-1b/25) THEN R ELSE N/A
C118	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.5-1/20) THEN R ELSE N/A
C119	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.5-1/20) THEN R ELSE N/A
C120	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/19 AND A.4.4-2b/22) THEN R ELSE N/A
C121	IF (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/22 AND A.4.4-2b/37) THEN R ELSE N/A
C122	IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-2b/37 AND A.4.4-2b/39) THEN R ELSE N/A
C123	IF A.4.1-1/1 AND A.4.2-1/8 THEN R ELSE N/A
C124	IF A.4.1-1/2 AND A.4.2-1/8 THEN R ELSE N/A
C125	IF A.4.1-1/1 AND A.4.5-1/27 THEN R ELSE N/A
C126	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.5-1/19 AND A.4.4-3a/111) THEN R ELSE N/A
C127	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.5-1/19 AND A.4.4-3b/111) THEN R ELSE N/A
C128	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.5-1/19) THEN R ELSE N/A
C129	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.5-1/19) THEN R ELSE N/A
C130	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND A.4.4-1a/25) THEN R ELSE N/A
C131	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND A.4.4-1a/25) THEN R ELSE N/A
C132	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.4-1a/25) THEN R ELSE N/A
C133	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND A.4.4-1a/25) THEN R ELSE N/A

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

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	R99	
4	UTRA TDD	25.102	R99	
5	GSM	45.005	R99	
6	cdma2000 HRPD	C.S0024-A	Rel-8	
7	cdma2000 1xRTT	C.S0002-A	Rel-8	
8	NB-IoT	36.101	Rel-13	

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, 4.3.4.6	Rel-10	
4	eDL-MIMO	36.306e 4.3.4.7	Rel-10	
5	Enhanced Dual Layer TDD	36.306, 4.3.4.5	Rel-9	
6	EPDCCH	36.306, 4.3.4.18	Rel-11	
7	FDD – TDD CA	36.306, 4.3.4.28	Rel-12	
8	Support of DC	36.306, 4.3.5.9	Rel-12	The UE supports of synchronous dual connectivity and power control mode 1

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	For NB-IoT the release is from Rel-13
2	EPS Session Management	24.301, 6	Rel-8	For NB-IoT the release is from Rel-13
3	GPRS Mobility Management	23.060	R99	For NB-IoT the release is from Rel-13
4	Radio Resource Control	36.331	Rel-8	For NB-IoT the release is from Rel-13
5	Packet Data Convergence Protocol	36.323	Rel-8	For NB-IoT the release is from Rel-13
6	Radio Link Control	36.322	Rel-8	For NB-IoT the release is from Rel-13
7	Medium Access Control	36.321	Rel-8	For NB-IoT the release is from Rel-13
8	Physical Layer	36.201 36.302	Rel-8	For NB-IoT the release is from Rel-13

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	For NB-IoT the release is from Rel-13
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 and HD-FDD Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	Rel-8	FDD and HD-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 and HD-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 and HD-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 and HD-FDD Band 12
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	Rel-8	FDD and HD-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 and HD-FDD Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	Rel-9	FDD and HD-FDD Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	Rel-9	FDD and HD-FDD Band 19
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	Rel-9	FDD and HD-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 and HD-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 and HD-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
45	Frequency band: 1447-1467, 1447-1467 MHz	36.101, 5.5	Rel-13	TDD Band 45
...				
65	Frequency band: 1920-2010, 2110-2200 MHz	36.101, 5.5	Rel-13	FDD Band 65
66	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	Rel-13	FDD and HD-FDD Band 66
Note:	The values indicated in column "Release" are to be understood as the specifications release version in which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 36.307 [16]			

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

Item	RF Additional Baseline Implementation Capabilities	Ref.	Comments
1	Support of 1.4 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 1.4 MHz Bandwidth: 2, 3, 4, 5, 8, 12, 23, 25, 26, 27, 31, 35, 36, 66
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, 66
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, 45, 65, 66
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, 45, 65, 66
7	Support of 20 MHz for both PCell and SCell	36.101, 5.6.1	
8	Support of 20 MHz for PCell and 10 MHz for SCell	36.101, 5.6.1	

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 and NB-IoT bands
3	UE Power Class 5	36.101, 6.2.2E 36.306, 4.3.5.20	All applicable E-UTRA and NB-IoT bands 20dBm

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.4.3-4a0: UE Category

Item	UE Category	Ref.	Release	Comments
1	Category NB1	36.306, 4.1C	Rel-13	

Table A.4.3-4a: UE Downlink Category

Item	UE Category	Ref.	Release	Comments
1	Category DL 0	36.306, 4.1A	Rel-12	Only in combination with Category UL 0
2	Category DL 6	36.306, 4.1A	Rel-12	Only in combination with Category UL 5
3	Category DL 7	36.306, 4.1A	Rel-12	Only in combination with Category UL 13
4	Category DL 9	36.306, 4.1A	Rel-12	Only in combination with Category UL 5
5	Category DL 10	36.306, 4.1A	Rel-12	Only in combination with Category UL 13
6	Category DL 11	36.306, 4.1A	Rel-12	Only in combination with Category UL 5
7	Category DL 12	36.306, 4.1A	Rel-12	Only in combination with Category UL 13
8	Category DL 13	36.306, 4.1A	Rel-12	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13
9	Category DL 14	36.306, 4.1A	Rel-12	Only in combination with Category UL 8
10	Category DL 15	36.306, 4.1A	Rel-12	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13
11	Category DL 16	36.306, 4.1A	Rel-12	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13

Table A.4.3-4aa: Additional UE Downlink Category

Item	UE Category	Ref.	Release	Comments
1	Category DL M1	36.306, 4.1A	Rel-13	Only in combination with Category UL M1

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 Category DL 13, Category DL 15 or Category DL 16
3	Category UL 5	36.306, 4.1A	Rel-12	Only in combination with Category DL 6, Category DL 9, Category DL 11, Category DL 13, Category DL 15 or Category DL 16
4	Category UL 7	36.306, 4.1A	Rel-12	Only in combination with Category DL 13, Category DL 15 or Category DL 16
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, Category DL 13, Category DL 15 or Category DL 16

Table A.4.3-4ba: Additional UE Uplink Category

Item	UE Category	Ref.	Release	Comments
1	Category UL M1	36.306, 4.1A	Rel-12	Only in combination with Category DL M1

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, 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 and category M1 UE
3	Enhanced performance requirements type C for LTE	36.101, 8	Rel-12	Support for Enhanced performance requirements type C
4	Enhanced performance requirements type B for LTE	36.101, 8 36.306, 4.3.4.35	Rel-12	Support for Enhanced performance requirements type B

Table A.4.3-8: Void

A.4.4 Feature group indicators

In Table A.4.4-1a and Table A.4.4-1b, 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)

When a UE supports E-UTRA FDD only, it"s required to indicate combined FGI capabilities in Table A.4.4-1a, Table A.4.4-2a and Table A.4.4-3a; when a UE supports E-UTRA TDD only, it"s required to indicate combined FGI capabilities in Table A.4.4-1b, Table A.4.4-2b and Table A.4.4-3b; when a UE supports E-UTRA FDD/TDD dual mode with same FGI capabilities on FDD and TDD, it"s required to indicate both FGI capabilities in Table A.4.4-1a, Table A.4.4-2a, Table A.4.4-3a, Table A.4.4-1b, Table A.4.4-2b and Table A.4.4-3b and make sure those FDD and TDD tables are identical..

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:Void

Table A.4.4-1a: Feature group indicators 1-32 for FDD

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	- set to 1 by category M1 UE that has implemented and successfully tested 'Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PM'		Rel-8	36.331, Annex B.1	pc_FeatrGrp_1_F	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_2_F	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_F	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 - 7bit PDCP SN	- can only be set to 1 if the UE has set bit number 7 to 1.	Yes, if UE supports VoLTE	Rel-9, Rel-10			
			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_F	Corresponding to the Index of Indicator, the leftmost binary bit 4. 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
5	Support of - Long DRX cycle - DRX command MAC control element			Rel-8	36.331, Annex B.1	pc_FeatrGrp_5_F	Corresponding to the Index of Indicator, the leftmost binary bit 5. Set to true if supporting all functionalities in the feature group.
			Yes	Rel-9			
6	Support of - Prioritized bit rate			Rel-8	36.331, Annex B.1	pc_FeatrGrp_6_F	Corresponding to the Index of Indicator, the leftmost binary bit 6. Set to true if supporting all functionalities in the feature group.
			Yes	Rel-9			
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_F	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_F	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 (except for category M1 UE), if UE supports UTRA FDD	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
9	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1		Rel-8, Rel-9, Rel-10	36.331, Annex B.1	pc_FeatrGrp_9_F	Corresponding to the Index of Indicator, the leftmost binary bit 9. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE), if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
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_F	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_F	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_F	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 - Inter-frequency handover (within FDD or TDD)	- can only be set to 1 if the UE has set bit number 25 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_13_F	Corresponding to the Index of Indicator, the leftmost binary bit 13. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE), unless UE only supports band 13	Rel-9			
14	Support of			Rel-8	36.331, Annex B.1	pc_FeatrGrp_14_F	Corresponding to the

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	- Measurement reporting event: Event A4 - Neighbour > threshold - Measurement reporting event: Event A5 - Serving < threshold1 & Neighbour > threshold2		Yes (except for category M1 UE)	Rel-9			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 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 - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24, 26 or 39 to 1. - even if the UE sets bits 41, it shall still set bit 15 to 1 if measurement reporting event B1 is tested for all RATs supported by UE - If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15_F	Corresponding to the Index of Indicator, the leftmost binary bit 15. Set to true if supporting all functionalities in the feature group.
			Yes for FDD, if UE supports only UTRAN FDD and does not support UTRAN TDD or GERAN or 1xRTT or HRPD	Rel-9			
16	Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*; - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical*	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_16_F	Corresponding to the Index of Indicator, the leftmost binary bit 16. 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
	and *purpose* is set to *reportStrongestCells*, if the UE has set bit number 25 to 1; and - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively. NOTE: Event triggered periodical reporting (i.e. with *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*, if the UE has set bit number 25 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively. NOTE: Event triggered periodical reporting (i.e., with *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore		Yes	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
17	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_17_F	Corresponding to the Index of Indicator, the leftmost binary bit 17. Set to true if supporting all functionalities in the feature group.
18	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-frequency 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 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes, unless UE only supports band 13	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_18_F	Corresponding to the Index of Indicator, the leftmost binary bit 18. Set to true if supporting all functionalities in the feature group.
19	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19_F	Corresponding to the Index of Indicator, the leftmost binary bit 19. 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
	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRANTDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 39, 23, 24 or 26 to 1. - even if the UE sets bits 33 to 37, it shall still set bit 19 to 1 if inter-RAT ANR features are tested for all RATs for which inter-RAT measurement reporting is indicated as tested		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
20	If bit number 7 is set to "0": - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to "1": - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to "1", UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB		Rel-8	36.331, Annex B.1	pc_FeatrGrp_20_F	Corresponding to the Index of Indicator, the leftmost binary bit 20. Set to true if supporting all functionalities in the feature group.
			Yes	Rel-9			
21	Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_21_F	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 - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group,		Rel-8	36.331, Annex B.1	pc_FeatrGrp_22_F	Corresponding to the Index of Indicator, the leftmost binary bit 22. Set to true if supporting

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - UTRAN FDD or UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports either only UTRAN FDD or only UTRAN TDD - UTRAN FDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD	this bit shall be set to 0.	Yes for FDD, if UE supports UTRA FDD	Rel-9			all functionalities in the feature group.
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_23_F	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_24_F	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.	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_25_F	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			
26	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_26_F	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			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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 - If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_27_F	Corresponding to the Index of Indicator, the leftmost binary bit 27. Set to true if supporting all functionalities in the feature group.
	Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH CS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD		Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-9			
28	Support of - TTI bundling	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD	Rel-9	36.331, Annex B.1	pc_FeatrGrp_28_F	Corresponding to the Index of Indicator, the leftmost binary bit 28. Set to true if supporting all functionalities in the feature group.
29	Support of - Semi-Persistent Scheduling	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_29_F	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_FeatrGrp_30_F	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_F	Corresponding to the Index of Indicator, the leftmost binary bit 31. Set to true if supporting all functionalities in the feature group.
				Rel-9			
			Yes	Rel-10			
32	Undefined			Rel-8	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 32.

Table A.4.4-1b: Feature group indicators 1-32 for TDD

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	- set to 1 by category M1 UE that has implemented and successfully tested 'Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PM'		Rel-8	36.331, Annex B.1	pc_FeatrGrp_1_T	Corresponding to the Index of Indicator, the leftmost binary bit 1. Set to true if supporting all functionalities in the feature group.
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_2_T	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_T	Corresponding to the Index of Indicator, the leftmost binary bit 3. Set to true if supporting all functionalities in the feature group.
	Support of	- can only be set to 1 if the UE	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
	- 5bit RLC UM SN - 7bit PDCP SN	has set 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_T	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			Rel-8	36.331, Annex B.1	pc_FeatrGrp_5_T	Corresponding to the Index of Indicator, the leftmost binary bit 5. Set to true if supporting all functionalities in the feature group.
			Yes	Rel-9			
6	Support of - Prioritized bit rate			Rel-8	36.331, Annex B.1	pc_FeatrGrp_6_T	Corresponding to the Index of Indicator, the leftmost binary bit 6. Set to true if supporting all functionalities in the feature group.
			Yes	Rel-9			
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_T	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			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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_T	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 - can only be set to 1 if the UE has set bit number 23 to 1		Rel-8, Rel-9, Rel-10	36.331, Annex B.1	pc_FeatrGrp_9_T	Corresponding to the Index of Indicator, the leftmost binary bit 9. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE), if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
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_T	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_T	Corresponding to the Index of Indicator, the leftmost binary bit 11. 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
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_T	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 - Inter-frequency handover (within FDD or TDD)	- can only be set to 1 if the UE has set bit number 25 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_13_T	Corresponding to the Index of Indicator, the leftmost binary bit 13. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE), unless UE only supports band 13	Rel-9			
14	Support of - Measurement reporting event: Event A4 - Neighbour > threshold - Measurement reporting event: Event A5 - Serving < threshold1 & Neighbour > threshold2			Rel-8	36.331, Annex B.1	pc_FeatrGrp_14_T	Corresponding to the Index of Indicator, the leftmost binary bit 14. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE)	Rel-9			
15	Support of - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or	- can only be set to 1 if the UE has set at least		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15_T	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 TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	one of the bit number 22, 23, 24, 26 or 39 to 1. - even if the UE sets bits 41, it shall still set bit 15 to 1 if measurement reporting event B1 is tested for all RATs supported by UE - If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, if UE supports only UTRAN FDD and does not support UTRAN TDD or GERAN or 1xRTT or HRPD	Rel-9			leftmost binary bit 15. Set to true if supporting all functionalities in the feature group.
16	Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*; - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical*	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_16_T	Corresponding to the Index of Indicator, the leftmost binary bit 16. 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
	and *purpose* is set to *reportStrongestCells*, if the UE has set bit number 25 to 1; and - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively. NOTE: Event triggered periodical reporting (i.e. with *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*, if the UE has set bit number 25 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively. NOTE: Event triggered periodical reporting (i.e., with *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.		Yes	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
17	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0	 Yes	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_17_T	Corresponding to the Index of Indicator, the leftmost binary bit 17. Set to true if supporting all functionalities in the feature group.
18	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-frequency 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 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0	 Yes, unless UE only supports band 13	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_18_T	Corresponding to the Index of Indicator, the leftmost binary bit 18. Set to true if supporting all functionalities in the feature group.
19	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19_T	Corresponding to the Index of Indicator, the leftmost binary bit 19. 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
	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRANTDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* 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 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 39, 23, 24 or 26 to 1. - even if the UE sets bits 33 to 37, it shall still set bit 19 to 1 if inter-RAT ANR features are tested for all RATs for which inter-RAT measurement reporting is indicated as tested		Rel-9			
20	If bit number 7 is set to "0": - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to "1": - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of		Rel-8	36.331, Annex B.1	pc_FeatrGrp_20_T	Corresponding to the Index of Indicator, the leftmost binary bit 20. 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
	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.	what bit number 20 is set to, if bit number 7 is set to "1", UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB	Yes	Rel-9			
21	Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_21_T	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 - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_22_T	Corresponding to the Index of Indicator, the leftmost binary bit 22. Set to true if supporting all functionalities in the feature group.
	Support of - UTRAN FDD or UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports either only UTRAN FDD or only UTRAN TDD - UTRAN FDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD		Yes for FDD, if UE supports UTRA FDD	Rel-9			
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_23_T	Corresponding to the Index of Indicator, the leftmost binary bit 23. 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
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_24_T	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.	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_25_T	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			
26	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_26_T	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 - If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-8	36.331, Annex B.1	pc_FeatrGrp_27_T	Corresponding to the Index of Indicator, the leftmost binary bit 27. Set to true if supporting all functionalities in the feature group.
	Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH CS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD		Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-9			
28	Support of	- If a category	Yes for FDD	Rel-9	36.331, Annex B.1	pc_FeatrGrp_28_T	Corresponding to the

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	- TTI bundling	M1 UE does not support this feature group, this bit shall be set to 0					Index of Indicator, the leftmost binary bit 28. Set to true if supporting all functionalities in the feature group.
29	Support of - Semi-Persistent Scheduling	- If a category M1 UE does not support this feature group, this bit shall be set to 0		Rel-9	36.331, Annex B.1	pc_FeatrGrp_29_T	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_FeatrGrp_30_T	Corresponding to the Index of Indicator, the leftmost binary bit 30. Set to true if supporting all functionalities in the feature group.
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 Rel-9 Rel-10	36.331, Annex B.1	pc_FeatrGrp_31_T	Corresponding to the Index of Indicator, the leftmost binary bit 31. Set to true if supporting all functionalities in the feature group.
			Yes				

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
32	Undefined			Rel-8	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 32.

Table A.4.4-2: Void

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

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
33	Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 22 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_33_F	Corresponding to the Index of Indicator, the leftmost binary bit 33. Set to true if supporting all functionalities in the feature group.
34	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 23 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_34_F	Corresponding to the Index of Indicator, the leftmost binary bit 34. Set to true if supporting all functionalities in the feature group.
35	Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 24 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_35_F	Corresponding to the Index of Indicator, the leftmost binary bit 35. Set to true if supporting all functionalities in the feature group.
36	Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_36_F	Corresponding to the Index of Indicator, the leftmost binary bit 36. Set to true if supporting all functionalities in the feature group.
37	Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and 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_F	Corresponding to the Index of Indicator, the leftmost binary bit 37. 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
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_F	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_39_F	Corresponding to the Index of Indicator, the leftmost binary bit 39. Set to true if supporting all functionalities in the feature group.
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_F	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, unless UE has set bit number 15 to 1	Rel-9	36.331, Annex B.1	pc_FeatrGrp_41_F	Corresponding to the Index of Indicator, the leftmost binary bit 41. Set to true if supporting all functionalities in the feature group.
42	DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments)			Rel-13	36.331, Annex B.1	pc_FeatrGrp_42_F	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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
45	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 45.
46	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 46.
47	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 47.
48	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 48.
49	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 49.
50	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 50.
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.

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

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

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
33	Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 22 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_33_T	Corresponding to the Index of Indicator, the leftmost binary bit 33. Set to true if supporting all functionalities in the feature group.
34	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 23 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_34_T	Corresponding to the Index of Indicator, the leftmost binary bit 34. Set to true if supporting all functionalities in the feature group.
35	Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 24 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_35_T	Corresponding to the Index of Indicator, the leftmost binary bit 35. Set to true if supporting all functionalities in the feature group.
36	Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_36_T	Corresponding to the Index of Indicator, the leftmost binary bit 36. Set to true if supporting all functionalities in the feature group.
37	Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and 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_T	Corresponding to the Index of Indicator, the leftmost binary bit 37. 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
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_T	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_39_T	Corresponding to the Index of Indicator, the leftmost binary bit 39. Set to true if supporting all functionalities in the feature group.
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_T	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, unless UE has set bit number 15 to 1	Rel-9	36.331, Annex B.1	pc_FeatrGrp_41_T	Corresponding to the Index of Indicator, the leftmost binary bit 41. Set to true if supporting all functionalities in the feature group.
42	DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments)			Rel-13	36.331, Annex B.1	pc_FeatrGrp_42_T	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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
45	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 45.
46	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 46.
47	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 47.
48	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 48.
49	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 49.
50	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 50.
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.

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

Table A.4.4-3: Void

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

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. - If a category 0 UE does not support this feature, this bit shall be set to 0.		Rel-10 Rel-12	36.331, Annex C.1	pc_FeatrGrp_101_F	Corresponding to the Index of Indicator, the leftmost binary bit 101. Set to true if supporting all functionalities in the feature group.
102	- Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports) NOTE: X = number of supported layers on given band			Rel-10	36.331, Annex C.1	pc_FeatrGrp_102_F	Corresponding to the Index of Indicator, the leftmost binary bit 102. Set to true if supporting all functionalities in the feature group.
103	- PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured	- for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_103_F	Corresponding to the Index of Indicator, the leftmost binary bit 103. Set to true if supporting all functionalities in the feature group.
104	- PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured	- if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. - for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_104_F	Corresponding to the Index of Indicator, the leftmost binary bit 104. Set to true if supporting all functionalities in the feature group.
105	- Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_105_F	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
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if index 2 is set to 1 for both FDD and TDD, and index 103 is set to 1 either for FDD and TDD.		Rel-12			
106	- Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported") and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_106_F	Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported", and if index 2 is set to 1 for both FDD and TDD.		Rel-12			
107	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_107_F	Corresponding to the Index of Indicator, the leftmost binary bit 107. Set to true if supporting all functionalities in the feature group.
108	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported") and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_108_F	Corresponding to the Index of Indicator, the leftmost binary bit 108. 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
109	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported").		Rel-10	36.331, Annex C.1	pc_FeatrGrp_109_F	Corresponding to the Index of Indicator, the leftmost binary bit 109. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported".		Rel-12			
110	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported").		Rel-10	36.331, Annex C.1	pc_FeatrGrp_110_F	Corresponding to the Index of Indicator, the leftmost binary bit 110. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported".		Rel-12			
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_F	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_F	Corresponding to the Index of Indicator, the leftmost binary bit 112. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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_F	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_F	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_115_F	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_F	Corresponding to the Index of Indicator, the leftmost binary bit 116. Set to true if supporting all functionalities in the feature group.
117	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 117.
118	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 118.
119	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 119.
120	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 120.
121	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 121.
122	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 122.

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

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

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.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_101_T	Corresponding to the Index of Indicator, the leftmost binary bit 101. Set to true if supporting all

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
		- If a category 0 UE does not support this feature, this bit shall be set to 0.		Rel-12			functionalities in the feature group.
102	- Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports) NOTE: X = number of supported layers on given band			Rel-10	36.331, Annex C.1	pc_FeatrGrp_102_T	Corresponding to the Index of Indicator, the leftmost binary bit 102. Set to true if supporting all functionalities in the feature group.
103	- PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured	- for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_103_T	Corresponding to the Index of Indicator, the leftmost binary bit 103. Set to true if supporting all functionalities in the feature group.
104	- PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured	- if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. - for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_104_T	Corresponding to the Index of Indicator, the leftmost binary bit 104. Set to true if supporting all functionalities in the feature group.
105	- Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_105_T	Corresponding to the Index of Indicator, the leftmost binary bit 105. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if index 2 is set to 1 for both FDD and TDD, and index 103 is set to 1 either for FDD and TDD.		Rel-12			

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 *tm9-With-8Tx-FDD-r10* is set to "supported") and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_106_T	Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported", and if index 2 is set to 1 for both FDD and TDD.		Rel-12			
107	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_107_T	Corresponding to the Index of Indicator, the leftmost binary bit 107. Set to true if supporting all functionalities in the feature group.
108	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported") and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_108_T	Corresponding to the Index of Indicator, the leftmost binary bit 108. Set to true if supporting all functionalities in the feature group.
109	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported").		Rel-10	36.331, Annex C.1	pc_FeatrGrp_109_T	Corresponding to the Index of Indicator, the leftmost binary bit 109. 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
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported".		Rel-12			
110	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if *tm9-With-8Tx-FDD-r10* is set to "supported").		Rel-10	36.331, Annex C.1	pc_FeatrGrp_110_T	Corresponding to the Index of Indicator, the leftmost binary bit 110. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported".		Rel-12			
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_T	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_T	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_T	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_T	Corresponding to the Index of Indicator, the leftmost binary bit 114. 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
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_115_T	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_T	Corresponding to the Index of Indicator, the leftmost binary bit 116. Set to true if supporting all functionalities in the feature group.
117	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 117.
118	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 118.
119	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 119.
120	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 120.
121	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 121.
122	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 122.
123	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 123.
124	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 124.
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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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, Annex 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	
14	Support of FDD-TDD CA with PCell in TDD band	36.306, 4.3.4.28		The UE may not send the IE tdd-FDD-CA-PCellDuplex-r12
15	Support of FDD-TDD CA with PCell in FDD band	36.306, 4.3.4.28		The UE may not send the IE tdd-FDD-CA-PCellDuplex-r12
16	Support of interRAT-PS-HO-ToGERAN	36.306, 4.3.7.11	Rel-8	
17	Support of 64QAM in UL	36.306, 4.3.4.39	Rel-12	
18	Support of 256QAM in DL	36.306, 4.3.5.7	Rel-12	
19	Support CRS based discovery signals measurement	36.306, 4.3.6.9	Rel-12	
20	Support CSI-RS based discovery signals measurement	36.306, 4.3.6.10	Rel-12	
21	Support the behaviour on DL signals and physical channels when SCell is deactivated and discovery signals measurement is configured	36.306, 4.3.4.38	Rel-12	
22	Support of 4Rx antenna ports	36.101, 7.2	Rel-13	

23	Support of ProSe direct communication	36.306, 4.3.21.1	Rel-12	
24	Support of ProSe direct discovery	36.306, 4.3.21.3	Rel-12	
25	Support of CE mode A	36.306, 4.3.8.3	Rel-13	Mandatory for CAT M1 UE
26	Support of CE mode B	36.306, 4.3.8.4	Rel-13	
27	Support of DC ASYNCH	36.306, 4.3.5.10	Rel-12	The UE supports asynchronous dual connectivity and power control mode 2
28	Support of DC SCG DRB	36.306, 4.3.20.2	Rel-12	The UE supports dual connectivity and DRB type of SCG bearer
29	Support of DC Split DRB	36.306, 4.3.20.1	Rel-12	The UE supports dual connectivity and DRB type of Split bearer
30	Support of MPR for intra-band contiguous carrier aggregation bandwidth class C with non-contiguous resource allocation	36.306, 4.3.5.10 36.101, H.1	Rel-10	ModifiedMPR_Behavior bit 0 (leftmost bit)
31	Support of A-MPR associated with NS_05 for Band 1	36.306, 4.3.5.10 36.101, H.1	Rel-10	ModifiedMPR_Behavior bit 1
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
3	UE supports multiple timing advances for each band combination supported by the UE	36.306, 4.3.5.3	Rel-11	O.01		This is a Rel-11 Mandatory feature (Note 3)

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." 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.

Note 2: If indicated 'Yes' the feature shall be implemented and successfully tested for the corresponding release.

Note 3: It is mandatory for UEs of this release of the specification to support this capability for band combinations having an UL on multiple FDD bands (see 36.306, 4.3.5.3). In the context of evaluating the status of the capability this would depend on the indication for UL support provided in Table A.4.3.3.3-3 i.e. if for at least one CA configurations for Inter-band CA the UE indicates A-A then the Support of multiple timing advances for this CA configuration is Mandatory.

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
45	Frequency band: 1447-1467, 1447-1467 MHz	36.101, 5.5	TDD Band 45
…			
66	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	FDD Band 66

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
45	Frequency band: 1447-1467, 1447-1467 MHz	36.101, 5.5	TDD Band 45
…			
66	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	FDD Band 66

Table A.4.5-5: 4 Rx antenna ports Capabilities

Item	Ref.	Release	Band	Supported	Comments
1	36.101, 7.2	Rel-13	FDD Band 2		
2	36.101, 7.2	Rel-13	FDD Band 3		
3	36.101, 7.2	Rel-13	FDD Band 7		
4	36.101, 7.2	Rel-13	FDD Band 20		
5	36.101, 7.2	Rel-13	TDD Band 39		
6	36.101, 7.2	Rel-13	TDD Band 42		

Table A.4.5-6: Void

Table A.4.5-6a: E-UTRA ProSe Communication Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
2	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
3	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
4	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
5	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
6	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
7	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31
8	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	FDD Band 68

Table A.4.5-6b: E-UTRA ProSe Discovery Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	FDD Band 2
2	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
3	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	FDD Band 4
4	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
5	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
6	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
7	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
8	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
9	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31
10	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	TDD Band 41
11	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	FDD Band 68

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	
3	DL CA with 4 carriers	36.101, 5.6A 36.331, 6.3.6	
4	DL CA with 5 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	
3	DL Intra-band contiguous CA BW Class D	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	Rel-12				-	-
CA_5B	Rel-13				-	-
CA_7C	Rel-11				-	-
CA_8B	Rel-13				-	-

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				-	-
CA_66B	Rel-13				-	-
CA_66C	Rel-13				-	-
CA_66D	Rel-13				-	-

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	
2	DL Intra-band non-contiguous CA BW Class Combination A-C/C-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_5A-5A	Rel-13				-	-
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				-	-
CA_66A-66A	Rel-13					

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.4.6-2can 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	
2	DL Inter-band CA BW Class Combination A-A-A (two bands)	36.101, 5.6A 36.331, 6.3.6	
3	DL Inter-band CA BW Class Combination A-A-A (three bands)	36.101, 5.6A 36.331, 6.3.6	
4	DL Inter-band CA BW Class Combination A-C/C-A or A-B/B-A (two bands)	36.101, 5.6A 36.331, 6.3.6	
5	DL Inter-band CA BW Class Combination A-A where one of the bands is DL-only	36.101, 5.5	
6	DL Inter-band CA BW Class Combination A-A-A-A (four bands)	36.101, 5.6A 36.331, 6.3.6	
7	DL Inter-band CA BW Class Combination A-A-C/C-A-A (three bands)	36.101, 5.6A 36.331, 6.3.6	
8	DL Inter-band CA BW Class Combination A-A-A-C (four bands)	36.101, 5.6A 36.331, 6.3.6	
9	DL Inter-band CA BW Class Combination A-D or C-C (two bands)	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-3C	Rel-13					-	-
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-40A	Rel-13						
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-4A-4A	Rel-13					-	-
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-2A-30A	Rel-13					-	-
CA_2A-17A	Rel-11					-	-
CA_2A-28A	Rel-13					-	-
CA_2A-29A	Rel-11			2		-	-
CA_2C-5A	Rel-13					-	-
CA_2C-29A	Rel-12			2		-	-
CA_2A-30A	Rel-12					-	-
CA_3A-5A	Rel-11					-	-
CA_3C-5A	Rel-13					-	-
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-40A	Rel-13						
CA_3A-41A	Rel-13					-	-
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-4A-29A	Rel-13					-	-
CA_4A-4A-30A	Rel-13					-	-
CA_4A-17A	Rel-11					-	-
CA_4A-27A	Rel-12					-	-
CA_4A-29A	Rel-11			4		-	-
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_8A-40A	Rel-12					-	-
CA_8A-41A	Rel-13					-	-
CA_8A-41C	Rel-13					-	-
CA_8A-42A	Rel-13					-	-
CA_8A-42C	Rel-13					-	-
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-28A	Rel-13					28	-
CA_19A-42A	Rel-12					-	-
CA_19A-42C	Rel-12					-	-
CA_20A-32A	Rel-12			20		-	-
CA_21A-42A	Rel-13					-	-
CA_21A-42C	Rel-13					-	-
CA_20A-67A	Rel-12			20		-	-
CA_23A-29A	Rel-12			23		-	-
CA_26A-41A	Rel-12					-	-
CA_26A-41C	Rel-12					-	-
CA_28A-41A	Rel-13					-	-
CA_28A-41C	Rel-13					-	-
CA_28A-42A	Rel-13					-	-
CA_28A-42C	Rel-13					-	-
CA_29A-30A	Rel-12			30		-	-
CA_39A-41A	Rel-12					-	-
CA_39A-41C	Rel-12					-	-
CA_39A-41D	Rel-13					-	-
CA_39C-41C	Rel-13						
CA_41A-42A	Rel-12					-	-
CA_41A-42C	Rel-13						
CA_41C-42A	Rel-13					-	-
CA_41C-42C	Rel-13					-	-

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:

1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column
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

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:

1. Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions'
2. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column
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.

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-7A	Rel-13					-	-
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-3A-28A	Rel-13					-	-
CA_1A-3A-42A	Rel-13					-	-
CA_1A-3A-42C	Rel-13					-	-

CA_1A-5A-7A	Rel-12					-	-
CA_1A-7A-20A	Rel-12					-	-
CA_1A-8A-11A	Rel-13					-	-
CA_1A-18A-28A	Rel-12					28	1A-28A
CA_1A-19A-21A	Rel-12					-	-
CA_1A-19A-28A	Rel-13					28	1A-28A
CA_1A-19A-42A	Rel-13					-	-
CA_1A-19A-42C	Rel-13					-	-
CA_1A-21A-42A	Rel-13					-	-
CA_1A-21A-42C	Rel-13					-	-
CA_2A-4A-5A	Rel-12					-	-
CA_2A-4A-7A	Rel-13					-	-
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-7A-12A	Rel-13					-	-
CA_2A-12A-30A	Rel-12					-	-
CA_2A-29A-30A	Rel-12					-	-
CA_2C-5A-30A	Rel-13					-	-
CA_3A-7A-8A	Rel-13					-	-
CA_3A-7A-20A	Rel-12					-	-
CA_3A-19A-42A	Rel-13					-	-
CA_3A-19A-42C	Rel-13					-	-
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_4A-4A-5A-30A	Rel-13					-	-

CA_4A-4A-12A-30A	Rel-13					-	-
CA_4A-4A-29A-30A	Rel-13					-	-
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:

1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column
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

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:

1. Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions'
2. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column
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.

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.

Table A.4.6.3-5: Supported CA configurations for Inter-band CA (four 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-19A-42A	Rel-13					-	-
CA_1A-3A-19A-42C	Rel-13					-	-
CA_1A-19A-21A-42A	Rel-13					-	-
CA_1A-19A-21A-42C	Rel-13					-	-
CA_2A-4A-5A-30A	Rel-13					-	-

CA_2A-4A-7A-12A	Rel-13					-	-

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2b, e.g. "CA_1A-3A-19A-42A" indicates CA operation on E-UTRA bands 1, 3, 19 and 42, 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.1-2b. 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-42A, 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.1-2b.

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:

4. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
5. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column
6. 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.4.6.3-4) 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:

4. Fallback CA Configuration is not listed in 'Fallback CA Configurations Exceptions'
5. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column
6. 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.4.6.3-4) 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
2011-09	RAN#53	R5-114074	0037	-	Applicability for new R9 RRM test cases	9.5.0	9.6.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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
2012-09	RAN#57	R5-123856	0069	-	Applicability for new RRM test cases	10.2.0	10.3.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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
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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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 & 9.4.1.2.1and 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
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	11.2.0	11.3.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
					Speed Applicability		
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
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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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
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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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
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

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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 Inter-band 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
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	12.5.0	12.6.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
					Combinations to 36.521-2		
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
2015-09	RAN#69	R5-153062	0271	-	Introduction of LTE eDL_MIMO applicability for TCs	12.6.0	12.7.0
2015-09	RAN#69	R5-153162	0273	-	Test applicability for TC 9.7.1.2	12.6.0	12.7.0
2015-09	RAN#69	R5-153236	0278	-	Addition of additional capabilities for Enhanced performance requirements type C for LTE	12.6.0	12.7.0
2015-09	RAN#69	R5-154023	0279	1	RF: Applicability of CSI requirements to UE Category 1 (for 36.521-2)	12.6.0	12.7.0
2015-09	RAN#69	R5-153388	0286	-	Correction to applicability of feICIC test cases.	12.6.0	12.7.0
2015-09	RAN#69	R5-153416	0287	-	Correction to information of feature group indicators	12.6.0	12.7.0
2015-09	RAN#69	R5-153477	0290	-	521-2 change applicability for Rel-10 CA RSRP relative accuracy tests	12.6.0	12.7.0
2015-09	RAN#69	R5-153479	0292	-	521-2 change applicability for Rel-11 CA RSRP relative accuracy tests	12.6.0	12.7.0
2015-09	RAN#69	R5-153480	0293	-	Introduction of 2DL CA test skipping if 3DL CA is tested in 36.521-1 Chapter 7	12.6.0	12.7.0
2015-09	RAN#69	R5-153481	0294	-	521-2 Addition of test applicabilities for Rel-12 CA RSRP relative accuracy tests	12.6.0	12.7.0
2015-09	RAN#69	R5-153503	0296	-	Correction to applicability content in Table 4.1-1, 4.1-1a. for 36.521-1	12.6.0	12.7.0
2015-09	RAN#69	R5-153528	0299	-	Update of FGI definitions in TS 36.521-2	12.6.0	12.7.0
2015-09	RAN#69	R5-153580	0300	-	Correction of applicability condition TC 9.6.1.1_A.1 non-contiguous part	12.6.0	12.7.0
2015-09	RAN#69	R5-153614	0302	-	Applicability for Receiver Spurious emissions test case for Carrier aggregation in DL-only bands	12.6.0	12.7.0
2015-09	RAN#69	R5-153689	0306	-	Applicability for new RRM TCs 7.1.3_1+7.1.4_1	12.6.0	12.7.0
2015-09	RAN#69	R5-153813	0283	1	Correction of L2G PSHO applicability for TS 36.521-2 spec	12.6.0	12.7.0
2015-09	RAN#69	R5-153828	0280	1	Addition of applicabilities for 3DL CA test cases	12.6.0	12.7.0
2015-09	RAN#69	R5-153846	0298	1	Addition of applicability of SU-MIMO conformance tests	12.6.0	12.7.0
2015-09	RAN#69	R5-153860	0282	1	Addition of test applicabilities of some test cases for 2UL CA	12.6.0	12.7.0
2015-09	RAN#69	R5-153861	0291	1	Proposal for missing Selection Criteria in table 4.1	12.6.0	12.7.0
2015-09	RAN#69	R5-153896	0281	1	Addition of applicabilities for 3DL CA RRM test cases	12.6.0	12.7.0
2015-09	RAN#69	R5-153897	0289	1	Implementation of 36.521-1 Chapter 8.1 and 9.1 test selection rules in Table 4.1-1 testcases	12.6.0	12.7.0
2015-09	RAN#69	R5-153910	0276	1	Corrections to MTC test applicabilities	12.6.0	12.7.0
2015-09	RAN#69	R5-153911	0297	1	Correction of MTC UE test case applicability	12.6.0	12.7.0
2015-09	RAN#69	R5-153929	0272	1	Addition of applicability for newly introduced 20MHz+20MHz and 20MHz+10MHz cases (Rel-12)	12.6.0	12.7.0
2015-09	RAN#69	R5-153932	0274	1	Addition of applicability for newly introduced TC8.16.18A (Rel-10)	12.6.0	12.7.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2015-09	RAN#69	R5-153933	0275	1	Addition of applicability for newly introduced TC7.1.4A (Rel-11)	12.6.0	12.7.0
2015-09	RAN#69	R5-153935	0277	1	Correction to applicability of EUTRA TDD to UTRA TDD connected mode measurements	12.6.0	12.7.0
2015-09	RAN#69	R5-153946	0301	1	Adding applicability for TC 8.2.1.7_A.1	12.6.0	12.7.0
2015-09	RAN#69	R5-153948	0305	1	Applicability corrections for test case 8.2.1.4.2_A.1	12.6.0	12.7.0
2015-09	RAN#69	R5-154013	0295	1	Addition of UE category 0 test cases	12.6.0	12.7.0
2015-09	RAN#69	-	-	-	update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC	12.6.0	12.7.0
2015-12	RAN#70	R5-155275	0314	-	Introduction of applicabilities of 2 test cases for 2UL CA Tx test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-155301	0316	-	Introduction of test applicability for TC 6.6.2.2A.1	12.7.0	12.8.0
2015-12	RAN#70	R5-155318	0319	-	Update of UE categories for R8 in 36.521-2	12.7.0	12.8.0
2015-12	RAN#70	R5-155319	0320	-	Update of UE categories for R10 in 36.521-2	12.7.0	12.8.0
2015-12	RAN#70	R5-155323	0322	-	Update of UE categories for R11 in 36.521-2	12.7.0	12.8.0
2015-12	RAN#70	R5-155544	0326	-	Correction to conditions C32 and C35 in Table 4.1-1 and Table 4.1-1a	12.7.0	12.8.0
2015-12	RAN#70	R5-155545	0327	-	Correction to conditions of Table 4.1-1a	12.7.0	12.8.0
2015-12	RAN#70	R5-155556	0328	-	Correction of RRM Condition C77	12.7.0	12.8.0
2015-12	RAN#70	R5-155558	0329	-	Correction of RRM Condition C79	12.7.0	12.8.0
2015-12	RAN#70	R5-155560	0330	-	Correction of RRM Condition C80	12.7.0	12.8.0
2015-12	RAN#70	R5-155563	0332	-	Correction of RRM Condition C81	12.7.0	12.8.0
2015-12	RAN#70	R5-155565	0334	-	Correction of RRM Condition C82	12.7.0	12.8.0
2015-12	RAN#70	R5-155635	0339	-	Release indication corrections in table A.4.1-1: UE Radio Technologies	12.7.0	12.8.0
2015-12	RAN#70	R5-155750	0341	-	Addition of test cases in Table 4.1-1: Applicability of RF conformance test cases.	12.7.0	12.8.0
2015-12	RAN#70	R5-155777	0342	-	Test applicability for Intra Frequency RSRP Accuracy for UE category 0 Test Cases	12.7.0	12.8.0
2015-12	RAN#70	R5-155843	0309	1	Update of applicability of SU-MIMO conformance tests	12.7.0	12.8.0
2015-12	RAN#70	R5-155870	0323	1	Applicability updates on inter-band CA receiver test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-155871	0324	1	Correction of applicability for FDD-TDD CA	12.7.0	12.8.0
2015-12	RAN#70	R5-155872	0336	1	Applicability update to FDD-TDD CA test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-155873	0335	1	Introduction of applicability expression for new 3DL CA RRM test case TC 8.16.41	12.7.0	12.8.0
2015-12	RAN#70	R5-155874	0340	1	36.521-2: CA_2A-2A-13A update	12.7.0	12.8.0
2015-12	RAN#70	R5-156050	0308	1	Addition of applicability for newly introduced MTC RRM tests	12.7.0	12.8.0
2015-12	RAN#70	R5-156060	0331	1	Addition of applicability for 2UL CA test cases 6.2.5A.3 and 6.2.5A.4	12.7.0	12.8.0
2015-12	RAN#70	R5-156061	0333	1	Addition of applicability for 2UL CA test cases 6.2.4A.3, 6.3.5A.3.2 and 6.6.3.3A.3	12.7.0	12.8.0
2015-12	RAN#70	R5-156093	0313	1	LTE Type B performance requirements - Addition of applicability for 6 new NAICS test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-156107	0325	1	Correction to test case condition for the test cases 9.5.1.x	12.7.0	12.8.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2015-12	RAN#70	R5-156132	0338	2	Applicability for new SCE-L1 test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-156135	0318	2	Update of test applicabilities for R12 RRM cases in 36.521-2	12.7.0	12.8.0
2015-12	RAN#70	R5-156136	0337	1	Update of the 1.4MHz MBMS test applicability	12.7.0	12.8.0
2015-12	RAN#70	R5-156087	0315	1	Introduction of test applicabilities for UL 64QAM cases	12.8.0	13.0.0
2016-03	RAN#71	R5-160037	0343	-	LTE Type B performance requirements - Addition of applicability for test cases 8.2.1.4.4 and 8.2.2.4.5	13.0.0	13.1.0
2016-03	RAN#71	R5-160054	0344	-	Addition of applicability for 2UL CA TC 6.5.2A.1.2, 6.5.2A.1.3, 6.5.2A.2.2 and 6.5.2A.2.3	13.0.0	13.1.0
2016-03	RAN#71	R5-160069	0345	-	Introduction of applicability of Tx test case 6.5.2A.3.2	13.0.0	13.1.0
2016-03	RAN#71	R5-160071	0347	-	Introduction of applicability of Tx test case 6.6.3.1A.3	13.0.0	13.1.0
2016-03	RAN#71	R5-160073	0346	2	Introduction of applicability of Tx test case 6.5.2A.3.3	13.0.0	13.1.0
2016-03	RAN#71	R5-160108	0349	-	Removal of technical content in 36.521-2 v12.8.0 and substitution with pointer to the next Release	13.0.0	13.1.0
2016-03	RAN#71	R5-160126	0353	-	Correction to applicability condition C22.	13.0.0	13.1.0
2016-03	RAN#71	R5-160273	0362	-	Applicability for new SCE RRM test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160372	0368	-	Rel-8 UE category correction	13.0.0	13.1.0
2016-03	RAN#71	R5-160373	0369	-	Rel-10 UE category correction	13.0.0	13.1.0
2016-03	RAN#71	R5-160511	0375	-	New CA band combination CA_41A-42C - Updates of Table A.4.6.3-3	13.0.0	13.1.0
2016-03	RAN#71	R5-160530	0378	-	Addition of CA Physical Layer Baseline Implementation Capabilities for the new CA configuration	13.0.0	13.1.0
2016-03	RAN#71	R5-160575	0381	-	Correction to the applicability of RRM test cases 9.5.1 and 9.5.2	13.0.0	13.1.0
2016-03	RAN#71	R5-160593	0382	-	Corrections to applicabilities of TDD FDD CA chapter 8 TCs	13.0.0	13.1.0
2016-03	RAN#71	R5-160694	0385	-	Applicability for newly added UL CA test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160714	0351	1	Test applicability for Intra Frequency RSRQ Accuracy for UE category 0 Test Cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160806	0355	1	Correction of applicability conditions C57 and C58	13.0.0	13.1.0
2016-03	RAN#71	R5-160807	0356	1	Missing applicability for TC 7.8.1A.4	13.0.0	13.1.0
2016-03	RAN#71	R5-160808	0357	1	Correction of Tested CA-Configurations for TC 7.5A.4 and TC 7.6.1A.4	13.0.0	13.1.0
2016-03	RAN#71	R5-160816	0366	1	Addition of some Rel-13 defined CA combinations to TS 36.521-2	13.0.0	13.1.0
2016-03	RAN#71	R5-160817	0373	1	CA_20A-67A: Update of CA Physical Layer Baseline Implementation	13.0.0	13.1.0
2016-03	RAN#71	R5-160818	0376	1	Correction to condition C25x	13.0.0	13.1.0
2016-03	RAN#71	R5-160851	0379	1	Applicability of new RF NAICS test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160857	0361	1	MTC applicability of RF test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160885	0360	1	Adding applicability of RRM test cases for LC_MTC_LTE-UEConTest.	13.0.0	13.1.0
2016-03	RAN#71	R5-160962	0387	-	Adding applicability statements to MTC RRM test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-161027	0363	1	Applicability for new LTE_CA_Rel12_2UL test case 6.6.3.2A.3	13.0.0	13.1.0
2016-03	RAN#71	R5-161036	0359	1	Applicability for new DL 256QAM RF and BB test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-161055	0352	1	Adding applicability of RRM test cases for LC_MTC_LTE-	13.0.0	13.1.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
					UEConTest		
2016-03	RAN#71	R5-161058	0377	1	Correction to conditions used item 'support 256QAM in DL'	13.0.0	13.1.0
2016-03	RAN#71	R5-161067	0370	1	36.521-2 Test point reduction for UL 64QAM multi-cluster ACLR tests	13.0.0	13.1.0
2016-03	RAN#71	R5-161069	0374	1	Add test case 8.16.17A and update release for test cases 8.16.18A	13.0.0	13.1.0
2016-03	RAN#71	R5-161074	0348	1	Addition of test case applicability for eDL MIMO Enhancement test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-161083	0384	1	Introduction of applicability expression for new 3DL CA RRM test case TC 8.16.42	13.0.0	13.1.0
2016-03	RAN#71	R5-161084	0358	1	Adding applicability of TC 8.16.39 and 8.16.40 for LTE_CA_Rel12_3DL-UEConTest	13.0.0	13.1.0
2016-03	RAN#71	R5-161108	0364	1	Addition of applicability for Reference sensitivity with 4Rx antenna ports	13.0.0	13.1.0
2016-03	RAN#71	R5-161116	0380	2	Split FGI table for FDD and TDD and update related test case applicability	13.0.0	13.1.0
2016-06	RAN#72	R5-162022	0388	-	Adding missing ICS for UE supporting multiple timing advances	13.1.0	13.2.0
2016-06	RAN#72	R5-162197	0395	-	7.6.1_1 In-band blocking with 4 Rx antenna ports test applicability	13.1.0	13.2.0
2016-06	RAN#72	R5-162229	0396	-	Introduction of test applicability for newly introduced UL 64QAM test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162250	0397	-	Addition of applicabilities for 2 Tx test cases 6.5.1D.1 and 6.5.1D.2	13.1.0	13.2.0
2016-06	RAN#72	R5-162256	0398	-	Addition of applicability for test case 8.10.4.1.1 with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162257	0399	-	Addition of applicability for test case 8.10.4.1.2 with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162259	0400	-	Addition of applicability for test case 8.10.4.2.1 with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162260	0401	-	Addition of applicability for test case 8.10.4.2.2 with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162298	0406	-	Applicability of new RF NAICS test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162403	0408	-	Addition of CA Physical Layer Baseline Implementation Capabilities for CA_1A-3A-7A and CA_3A-7A-8A to 36.521-2	13.1.0	13.2.0
2016-06	RAN#72	R5-162487	0413	-	Addition of applicability for Additional spurious emissions for CA (inter-band DL CA and UL CA)	13.1.0	13.2.0
2016-06	RAN#72	R5-162488	0414	-	Update to the applicability for SCE RRM test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162489	0415	-	Correction to applicability table for EUTRA TDD to UTRA TDD Son test case	13.1.0	13.2.0
2016-06	RAN#72	R5-162503	0416	-	New some Rel-13 defined CA combinations - Updates of Table A.4.6.3-3	13.1.0	13.2.0
2016-06	RAN#72	R5-162546	0419	-	Correction to condition C73h	13.1.0	13.2.0
2016-06	RAN#72	R5-162547	0420	-	Correction to condition C28y	13.1.0	13.2.0
2016-06	RAN#72	R5-162565	0421	-	Applicability for 4Rx antenna ports test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162574	0422	-	Applicability for 2UL CA test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162650	0424	-	Band 65 introduction to 36.521-2	13.1.0	13.2.0
2016-06	RAN#72	R5-162822	0402	1	Editorial corrections of the condition table in the TS 36.521-2	13.1.0	13.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2016-06	RAN#72	R5-162824	0411	1	Modification to feICIC RRM test cases applicability	13.1.0	13.2.0
2016-06	RAN#72	R5-162825	0407	1	Minor correction to FGI FDD and TDD tables	13.1.0	13.2.0
2016-06	RAN#72	R5-162826	0409	1	Correction to applicability of RRM test cases condition in table 4.2-1a	13.1.0	13.2.0
2016-06	RAN#72	R5-162827	0410	1	Correction to RF applicability condition for feICIC	13.1.0	13.2.0
2016-06	RAN#72	R5-162828	0417	1	Correction of Tested CA Configurations Selection Criteria	13.1.0	13.2.0
2016-06	RAN#72	R5-162829	0423	1	New CA band combination CA_8A-40A – Updates of Table A.4.6.3-3	13.1.0	13.2.0
2016-06	RAN#72	R5-162850	0391	1	Update of CA Physical Layer Baseline Implementation Capabilities for new CA configuration in Annex A.4.6	13.1.0	13.2.0
2016-06	RAN#72	R5-162864	0390	1	Addition of applicability for TC 7.9_1 Spurious emissions with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162873	0392	1	Add applicability for test case 6.2.4A.2	13.1.0	13.2.0
2016-06	RAN#72	R5-162956	0394	1	Addition of test cases in Table 4.1-1: Applicability of RF conformance test cases.	13.1.0	13.2.0
2016-06	RAN#72	R5-163019	0427	-	Introduction of CA Physical Layer Baseline Implementation for CA_1A-8A-11A	13.1.0	13.2.0
2016-06	RAN#72	R5-163105	0426	1	Introduction of ICS and applicability for new e-MTC RF test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-163109	0389	1	Add B66 information in TS 36.521-2	13.1.0	13.2.0
2016-06	RAN#72	R5-163118	0425	1	Applicability CR to 36.521-2 for new DC test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-165030	0428	-	Update of CA Physical Layer Baseline Implementation Capabilities for new CA configuration in Annex A.4.6	13.2.0	13.3.0
2016-09	RAN#73	R5-165090	0430	-	Applicability of new RF and RRM test cases for CAT-M1 UE and UE in enhanced coverage	13.2.0	13.3.0
2016-09	RAN#73	R5-165153	0431	-	Removal of technical content in 36.521-2 v12.8.0 and substitution with pointer to the next Release	13.2.0	13.3.0
2016-09	RAN#73	R5-165196	0432	-	Applicability of new added ProSe RF test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165197	0433	-	Applicability of new added NAICS demodulation test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165212	0435	-	New CA band combination CA_1A-40A and CA_3A-40A - Updates of Table A.4.6.3-3	13.2.0	13.3.0
2016-09	RAN#73	R5-165213	0436	-	Correction of applicability conditions to test cases 9.5.2.1_D and 9.5.2.2_D	13.2.0	13.3.0
2016-09	RAN#73	R5-165214	0437	-	Correction to applicability of RF test cases condition in table 4.1-1a	13.2.0	13.3.0
2016-09	RAN#73	R5-165216	0438	-	Correction to incorrect test case number and title in Table 4.2-1	13.2.0	13.3.0
2016-09	RAN#73	R5-165249	0439	-	Applicabilities for new 4Rx Test Cases - CQI reporting / AWGN	13.2.0	13.3.0
2016-09	RAN#73	R5-165271	0440	-	Change of names of 3DL TCs	13.2.0	13.3.0
2016-09	RAN#73	R5-165315	0443	-	Update applicability for PCFICH/PDCCH performance with 4Rx antenna ports test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165361	0444	-	Addition of CA Physical Layer Baseline Implementation Capabilities for CA_1A-3A-28A to 36.521-2.	13.2.0	13.3.0
2016-09	RAN#73	R5-165399	0445	-	Updates of physical layer baseline implementation capability for CA_1A-3C	13.2.0	13.3.0
2016-09	RAN#73	R5-165416	0448	-	Additional CA Physical Layer Baseline Implementation Capabilities for new CA combinations to TS36.521-2	13.2.0	13.3.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2016-09	RAN#73	R5-165434	0452	-	Introduction of test applicability for NB-IoT test cases 6.2.5F, 6.5.2.1F.1 and 6.5.2.2F	13.2.0	13.3.0
2016-09	RAN#73	R5-165445	0453	-	Introduction of test applicability for UL 64QAM+UL intra-band non-contiguous CA EVM test	13.2.0	13.3.0
2016-09	RAN#73	R5-165493	0454	-	Correction to applicability of Power Class 3 only UL TCs	13.2.0	13.3.0
2016-09	RAN#73	R5-165504	0456	-	Introduction of Band 45 into 36.521-2	13.2.0	13.3.0
2016-09	RAN#73	R5-165515	0457	-	Correction to applicability of Multi-Cluster TCs	13.2.0	13.3.0
2016-09	RAN#73	R5-165533	0458	-	Supplementation of SCE RRM test cases applicability	13.2.0	13.3.0
2016-09	RAN#73	R5-165627	0460	-	Applicability of new RF NAICS test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165647	0461	-	Correction to applicability condition for EUTRA TDD to UTRA TDD	13.2.0	13.3.0
2016-09	RAN#73	R5-165656	0462	-	Correction to test cases release information for test cases 9.3.3 and 9.4.3	13.2.0	13.3.0
2016-09	RAN#73	R5-165662	0464	-	Update of applicability for RRM 3 DL CA activation and deactivation test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165824	0465	-	36.521-2 4CC Band combinations addition (CA_2A-2A-4A-4A and CA_2A-4A-5A-30A)	13.2.0	13.3.0
2016-09	RAN#73	R5-165830	0466	-	Correction to applicability for RF test cases in TS 36.521-2 table 4.1-1	13.2.0	13.3.0
2016-09	RAN#73	R5-165984	0451	1	Introduction of ICS proforma tables for NB-IoT in 36.521-2	13.2.0	13.3.0
2016-09	RAN#73	R5-166014	0429	1	Adding missing test cases 6.3.5_1.1, 6.3.5_1.2, 6.3.5_1.3 to table 4.1-1, 36.521-2	13.2.0	13.3.0
2016-09	RAN#73	R5-166016	0449	1	Correction to test cases not applicable for UE category 1	13.2.0	13.3.0
2016-09	RAN#73	R5-166017	0450	1	Correction for UL 64QAM test cases to TS36.521-2	13.2.0	13.3.0
2016-09	RAN#73	R5-166018	0463	1	Additional new PICS items to handle CA test cases bandwidth configurations of 20MHz+20MHz and 20MHz+10MHz in 3GPP TS 36.521-3	13.2.0	13.3.0
2016-09	RAN#73	R5-166019	0467	1	Addition of modifiedMPR-behavior capability	13.2.0	13.3.0
2016-09	RAN#73	R5-166049	0441	1	Introduction of CA physical layer capabilities for CA_8A-42A (2DL) and CA_8A-42C (3DL)	13.2.0	13.3.0
2016-09	RAN#73	R5-166088	0447	1	Update of Feature Group Indicators for eMTC	13.2.0	13.3.0
2016-09	RAN#73	R5-166332	0442	2	Cleanup TS36.521-2 for XML compliant	13.2.0	13.3.0

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