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resource management test cases
(3GPP TS 38.522 version 15.3.0 Release 15)



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Foreword

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

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

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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.

The present document is one part of a multi-part Technical Specification (TS) covering the New Radio (NR) User Equipment (UE) conformance specification, which is divided in the following parts:

3GPP TS 38.521-1 [1]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone;

3GPP TS 38.521-2 [2]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone;

3GPP TS 38.521-3 [3]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios;

3GPP TS 38.521-4 [4]: NR; User Equipment conformance specification; Radio transmission and reception; Part 4: Performance;

3GPP TS 38.522: NR; User Equipment (UE) conformance specification; Applicability of RF and RRM test cases;

3GPP TS 38.533 [5]: NR; User Equipment (UE) conformance specification; Radio resource management;

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 5G New Radio (NR) User Equipment (UE), in compliance with the relevant requirements.

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 38.521-1 [1], TS 38.521-2 [2], TS 38.521-3 [3], TS 38.521-4 [4] and TS 38.533 [5]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 38.509 [6] and the common test environments are included in 3GPP TS 38.508-1 [7]. Common implementation conformance statement (ICS) proforma can be found in 3GPP TS 38.508-2 [8].

The present document is valid for UE implemented according to 3GPP releases starting from Release 15 up to the Release indicated on the cover page of the present document.

2 References

[11]

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 38.521-1: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone
[2]	3GPP TS 38.521-2: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone
[3]	3GPP TS 38.521-3: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios
[4]	3GPP TS 38.521-4: NR; User Equipment conformance specification; Radio transmission and reception; Part 4: Performance
[5]	3GPP TS 38.533: NR; User Equipment (UE) conformance specification; Radio resource management
[6]	3GPP TS 38.509: 5GS; Special conformance testing functions for User Equipment (UE)
[7]	3GPP TS 38.508-1: 5GS; User Equipment (UE) conformance specification; Part 1: Common test environment
[8]	3GPP TS 38.508-2: 5GS; User Equipment (UE) conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma
[9]	3GPP TR 21.905: Vocabulary for 3GPP Specifications
[10]	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 38.331: "NR; Radio Resource Control (RRC) protocol specification".

Editor's note: More specifications need to be added.

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [9] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [9].

EIRP(Link=Link angle, Meas=Link angle): measurement of the UE such that the link angle is aligned with the measurement angle. EIRP (indicator to be measured) can be replaced by EIS, Frequency, EVM, carrier Leakage, Inband eission and OBW. Beam peak search grids, TX beam peak direction, and RX beam peak direction can be selected to describe Link.

EIRP(Link=Link angle, Meas=beam peak direction): measurement of the EIRP of the UE such that the measurement angle is aligned with the beam peak direction within an acceptable measurement error uncertainty.

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

Inter-band carrier aggregation: Carrier aggregation of component carriers in different operating bands.

NOTE: Carriers aggregated in each band can be contiguous or non-contiguous.

Intra-band contiguous carrier aggregation: Contiguous carriers aggregated in the same operating band.

Intra-band non-contiguous carrier aggregation: Non-contiguous carriers aggregated in the same operating band.

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)

TRP(**Link=Link angle**): measurement of the TRP of the UE such that the measurement angle is aligned with the beam peak direction within an acceptable measurement uncertainty. TX beam peak direction and RX beam peak direction can be selected to describe Link.

NOTE: For requirements based on EIRP/EIS, the radiated interface boundary is associated to the far-field region

3.2 Symbols

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

<symbol> < Explanation>

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [9] 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 [9].

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

CA Carrier Aggregation

EN-DC E-UTRA NR-Dual Connection

FR1 Frequency Range 1 (410 MHz - 7125 MHz)
FR2 Frequency Range 2 (24250 MHz - 52600 MHz)
ICS Implementation Conformance Statement
IXIT Implementation eXtra Information for Testing

NR New Radio

PIXIT Protocol Implementation eXtra Information for Testing

SCS System Conformance Statement

SUL Supplementary UpLink

TC Test Case

TRP Total Radiated Power
UEUT User Equipment Under Test

4 Recommended test case applicability

The applicability of each individual test is identified in the tables 4.1.1-1/4.1.2-1/4.1.3-1/4.1.3-1/4.1.4-1/4.2-1. 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 expressions that are based on parameters (ICS). The parameters (ICS) included in TS 38.508-2 [8] are used in the test case applicability condition without reference. Parameters (ICS) specified in 3GPP TS 36.521-2 [10] shall be referred with proper reference.

Selection criteria of tested bands and tested CA configurations for each applicable test is formally expressed using group theory based on parameters (ICS) included in annex A of TS 38.508-2 [8] without reference.

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 4.1.1-1 / 4.1.2-1 / 4.1.3-1 / 4.1.4-1 / 4.2-1 have the following meaning:

Clause

The clause column indicates the clause number in TS 38.521-1 [1], TS 38.521-2 [2], TS 38.521-3 [3], TS 38.521-4 [4] and TS 38.533 [5] 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 38.521-1 [1], TS 38.521-2 [2], TS 38.521-3 [3], TS 38.521-4 [4] and TS 38.533 [5] 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 NR

O optional - the test case is optional

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

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

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

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

Applicability - Comments

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

Tested Bands / CA-Configurations Selection

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

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

Di Derive the set based on Band Selection Criteria Di defined in tables 4.1.1-1b, 4.1.2-1b, 4.1.3-1b,

4.1.4-1b.

Ei Derive the set based on CA Configurations Selection Criteria Ei defined in tables 4.1.1-1c, 4.1.2-

1c, 4.1.3-1c.

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 and the measurement execution.

NOTE 1: 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 RF test cases in table 4.1-1. 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.

Editor's note: The above description will be updated when necessary, for example 1Tx and 2Tx differentiation.

4.1 RF conformance test cases

NOTE: To determine applicability of a test case, FGI support in combined or fdd-Add-UE-NR-Capabilities or tdd-Add-UE- NR-Capabilities, as well as supported CBW and SCS in the *RF-Parameters* IE (see TS 38.331 [11]) which conveys RF related capabilities for NR operation, is taken into account.

4.1.1 FR1 standalone conformance test cases

Table 4.1.1-1: Applicability of RF SA FR1 conformance test cases, ref. TS 38.521-1 [1]

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
_			Condition	Comment		
6	Transmitter Characteristics					
6.2.1	UE maximum output power	Rel-15	FR1_C01	UEs supporting 5GS NR FR1 PC3	FR1_D01	PC3 requirements applied
				UEs supporting 5GS NR FR1 PC2	FR1_D02	PC2 requirements applied
6.2.2	Maximum Power Reduction (MPR)	Rel-15	FR1_C01	UEs supporting 5GS FR1 PC3	FR1_D01	PC3 requirements applied Test execution is not necessary if TS 38.521-1 6.5.2.4.1 is executed.
				UEs supporting 5GS FR1 PC2	FR1_D02	PC2 requirements applied Test execution is not necessary if TS 38.521-1 6.5.2.4.1 is executed.
6.2.3	UE additional maximum output power reduction	Rel-15	FR1_C01	UEs supporting 5GS FR1 PC3	FR1_D01	PC3 requirements applied Test execution is not necessary if TS 38.521-1 6.5.2.3 and 6.5.3.3 are executed.
				UEs supporting 5GS FR1 PC2	FR1_D02	PC2 requirements applied Test execution is not necessary if TS 38.521-1 6.5.2.3 and 6.5.3.3 are executed.
6.2.4	Configured transmitted power	Rel-15	FR1_C01	UEs supporting 5GS FR1	FR1_D01	

Table 4.1.1-1a: Applicability of RF SA FR1 conformance test cases Conditions

FR1_C01 IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/1 THEN R ELSE N/A
FR1_C02 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-2/3 OR A.4.1-2/5) AND A.4.1-3/1 THEN R ELSE N/A
FR1_C03 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.2-1/14 OR A.4.3.2-1/15) AND A.4.1-3/1 THEN R ELSE N/A
Note 1: The ICS proforma are defined in TS 38.508-2 [8] unless otherwise state.

Table 4.1.1-1b: Tested Bands Selection Criteria for RF SA FR1 conformance test cases

Code	Selection	Comment
FR1_D01	A.4.3.1-1 OR A.4.3.1-2	All supported FR1 Bands
FR1_D02	A.4.3.1-4	All supported FR1 PC2 Bands
FR1_D03	A.4.3.1-5	All supported FR1 SUL Bands
Note 1: Band	Selection is based on set theory. For each feature, item num	ber shall correspond to the Band number. The result is the set of bands for which the test shall be
condu	ucted. The following operators are used:	
1A	ND: Set intersection (

OR: Set union (\bigcup). {1,2} OR {2,3} = {1,2,3} NOT: Set complement (\setminus), 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:

{1,2}: Explicitly given band set All bands supporting 10 MHz

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

TBD

Table 4.1.1-1c: Tested CA Configurations Selection Criteria for RF SA FR1 conformance test cases

Code	Selection	Comment
FR1_E01	A.4.3.2A.2.1-3 AND CARRIER_NO(2) AND NOT	All supported intra-band contiguous CA Configurations with 2 carriers in DL but no CA in UL
	UL(A.4.3.2A.2.1-3)	

4.1.2 FR2 standalone conformance test cases

Table 4.1.2-1: Applicability of RF SA FR2 conformance test cases, ref. TS 38.521-2 [2]

Clause	TC Title	Relea se		Applicability	Tested Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.2.1.1	UE maximum output power - EIRP and TRP	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 4
6.2.1.2	UE maximum output power - Spherical coverage		FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1 NOTE 4
6.2.2	UE maximum output power reduction	FFS	FFS	FFS		NOTE 1
6.2.3	UE maximum output power with additional requirements	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.2.4	Configured transmitted power	FFS	FFS	FFS	FFS	Test execution is not necessary if both TS 38.521-2 6.2.1 and TS 38.521-2 6.2.2 are executed.
6.2A.1.1.1	UE maximum output power - EIRP and TRP for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.1.2	UE maximum output power - EIRP and TRP for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.1.3	UE maximum output power - EIRP and TRP for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.1.4	UE maximum output power - EIRP and TRP for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.1.5	UE maximum output power - EIRP and TRP for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.1.6	UE maximum output power - EIRP and TRP for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.1.7	UE maximum output power - EIRP and TRP for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.1	Spherical coverage for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.2	Spherical coverage for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.3	Spherical coverage for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.4	Spherical coverage for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.5	Spherical coverage for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.6	Spherical coverage for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.1.2.7	Spherical coverage for CA (8UL CA)		FFS	FFS	FFS	NOTE 1
6.2A.2.1	UE maximum output power reduction for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.2.2	UE maximum output power reduction for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.2.3	UE maximum output power reduction for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1

Clause	TC Title			Applicability	Tested Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.2A.2.4	UE maximum output power reduction for CA (5UL CA)		FFS	FFS	FFS	NOTE 1
6.2A.2.5	UE maximum output power reduction for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.2.6	UE maximum output power reduction for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.2.7	UE maximum output power reduction for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.1	UE maximum output power with additional requirements for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.2	UE maximum output power with additional requirements for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.3	UE maximum output power with additional requirements for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.4	UE maximum output power with additional requirements for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.5	UE maximum output power with additional requirements for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.6	UE maximum output power with additional requirements for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.3.7	UE maximum output power with additional requirements for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.4.1	Configured transmitted power for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.4.2	Configured transmitted power for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.4.3	Configured transmitted power for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.4.4	Configured transmitted power for CA (5UL CA)		FFS	FFS	FFS	NOTE 1
6.2A.4.5	Configured transmitted power for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.4.6	Configured transmitted power for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2A.4.7	Configured transmitted power for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.2D.1.1	UE maximum output power - EIRP and TRP for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.2D.1.2	Spherical coverage for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.2D.2	UE maximum output power reduction for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.2D.3	UE maximum output power with additional requirements for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.2D.4	Configured transmitted power for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.3.1	Minimum output power	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.3.3.2	General ON/OFF time mask	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.3.3.4	PRACH time mask		FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.3.3.6	SRS time mask		FFS	FFS	FFS	NOTE 1
6.3.4.2	Absolute power tolerance		FFS	FFS	FFS	NOTE 1
6.3.4.3	Relative power tolerance	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.3.4.4	Aggregate power tolerance	FFS		FFS	FFS	NOTE 1

Clause	TC Title			Applicability	Tested Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.3A.1.1	Minimum output power for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.1.2	Minimum output power for CA (3UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.1.3	Minimum output power for CA (4UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.1.4	Minimum output power for CA (5UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.1.5	Minimum output power for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.1.6	Minimum output power for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.1.7	Minimum output power for CA (8UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.2.1	Transmit OFF power for CA (2UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.2.2	Transmit OFF power for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.2.3	Transmit OFF power for CA (4UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.2.4	Transmit OFF power for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.2.5	Transmit OFF power for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.2.6	Transmit OFF power for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.2.7	Transmit OFF power for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.1	General ON/OFF time mask for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.2	General ON/OFF time mask for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.3	General ON/OFF time mask for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.4	General ON/OFF time mask for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.5	General ON/OFF time mask for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.6	General ON/OFF time mask for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.3.1.7	General ON/OFF time mask for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.2.1	Absolute power tolerance for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.2.2	Absolute power tolerance for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.2.3	Absolute power tolerance for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.2.4	Absolute power tolerance for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.2.5	Absolute power tolerance for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.2.6	Absolute power tolerance for CA (7UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.4.2.7	Absolute power tolerance for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.3.1	Relative power tolerance for CA (2UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.4.3.2	Relative power tolerance for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.3.3	Relative power tolerance for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.3.4	Relative power tolerance for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.3.5	Relative power tolerance for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.3.6	Relative power tolerance for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.3.7	Relative power tolerance for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.4.1	Aggregate power tolerance for CA (2UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.4.4.2	Aggregate power tolerance for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.4.3	Aggregate power tolerance for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.3A.4.4.4	Aggregate power tolerance for CA (5UL CA)		FFS	FFS	FFS	NOTE 1
, ч. т. т	priggregate power tolerance for Crit (COL Crit)	1	ı .	Į S	li i O	· · · · · ·

Clause	TC Title	Relea se		Applicability	Tested Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.3A.4.4.5	Aggregate power tolerance for CA (6UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.4.4.6	Aggregate power tolerance for CA (7UL CA)		FFS	FFS	FFS	NOTE 1
6.3A.4.4.7	Aggregate power tolerance for CA (8UL CA)		FFS	FFS	FFS	NOTE 1
6.3D.1	Minimum output power for UL-MIMO		FFS	FFS	FFS	NOTE 1
6.3D.2	Transmit OFF power for UL-MIMO		FFS	FFS	FFS	NOTE 1
6.3D.3.1	General ON/OFF time mask for UL-MIMO		FFS	FFS	FFS	NOTE 1
6.3D.3.2	PRACH time mask for UL-MIMO		FFS	FFS	FFS	NOTE 1
6.3D.3.3	SRS time mask for UL-MIMO		FFS	FFS	FFS	NOTE 1
6.4.1	Frequency error		FR2_C01	UEs supporting 5GS FR2	FR2_D01	
6.4.2.1	Error vector magnitude	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.4.2.2	Carrier leakage	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.4.2.3	In-band emissions	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.4.2.4	EVM equalizer spectrum flatness	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.4.2.5	EVM spectral flatness for pi/2 BPSK modulation	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.4A.1.1	Frequency error for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.1.2	Frequency error for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.1.3	Frequency error for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.1.4	Frequency error for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.1.5	Frequency error for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.1.6	Frequency error for CA (7UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.1.7	Frequency error for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.1.1	Error vector magnitude for CA (2UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.1.2	Error vector magnitude for CA (3UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.1.3	Error vector magnitude for CA (4UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.1.4	Error vector magnitude for CA (5UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.1.5	Error vector magnitude for CA (6UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.1.6	Error vector magnitude for CA (7UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.1.7	Error vector magnitude for CA (8UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.2.1	Carrier leakage for CA (2UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.2.2	Carrier leakage for CA (3UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.2.3	Carrier leakage for CA (4UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.2.4	Carrier leakage for CA (5UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.2.5	Carrier leakage for CA (6UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.2.6	Carrier leakage for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.2.7	Carrier leakage for CA (8UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.3.1	In-band emissions for CA (2UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.3.2	In-band emissions for CA (3UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.3.3	In-band emissions for CA (4UL CA)		FFS	FFS	FFS	NOTE 1
6.4A.2.3.4	In-band emissions for CA (5UL CA)		FFS	FFS	FFS	NOTE 1

Clause	TC Title	Relea se		Applicability	Tested Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.4A.2.3.5	In-band emissions for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.3.6	In-band emissions for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.3.7	In-band emissions for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.1	EVM equalizer spectrum flatness for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.2	EVM equalizer spectrum flatness for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.3	EVM equalizer spectrum flatness for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.4	EVM equalizer spectrum flatness for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.5	EVM equalizer spectrum flatness for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.6	EVM equalizer spectrum flatness for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4A.2.4.7	EVM equalizer spectrum flatness for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.4D.1	Frequency error for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.4D.2.1	Error vector magnitude for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.4D.2.2	Carrier leakage for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.4D.2.3	In-band emissions for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.4D.2.4	EVM equalizer spectrum flatness for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.4D.3	Time alignment error for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.4D.4	Requirements for coherent UL MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.5.1	Occupied bandwidth	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.5.2.1	Spectrum Emission Mask	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	
6.5.2.3	Adjacent channel leakage ratio		FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.5.3.1	Transmitter Spurious emissions	Rel-15	FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
6.5.3.2	Spurious emission band UE co-existence	FFS	FFS	FFS	FFS	NOTE 1
6.5.3.3	Additional spurious emissions	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.1	Occupied bandwidth for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.2	Occupied bandwidth for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.3	Occupied bandwidth for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.4	Occupied bandwidth for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.5	Occupied bandwidth for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.6	Occupied bandwidth for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.1.7	Occupied bandwidth for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.1	Spectrum Emission Mask for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.2	Spectrum Emission Mask for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.3	Spectrum Emission Mask for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.4	Spectrum Emission Mask for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.5	Spectrum Emission Mask for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.6	Spectrum Emission Mask for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.1.7	Spectrum Emission Mask for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2.1	Adjacent channel leakage ratio for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2.2	Adjacent channel leakage ratio for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
J.UI 1.Z.Z.Z	projectific fical age ratio for OA (OOL OA)	- 1	1. 1 0	p : •	110	TO E

Clause	TC Title	Relea se		Applicability	Tested Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.5A.2.2.3	Adjacent channel leakage ratio for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2.4	Adjacent channel leakage ratio for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2.5	Adjacent channel leakage ratio for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2.6	Adjacent channel leakage ratio for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2.7	Adjacent channel leakage ratio for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.1	Transmitter Spurious emissions for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.2	Transmitter Spurious emissions for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.3	Transmitter Spurious emissions for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.4	Transmitter Spurious emissions for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.5	Transmitter Spurious emissions for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.6	Transmitter Spurious emissions for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1.7	Transmitter Spurious emissions for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.1	Spurious emission band UE co-existence for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.2	Spurious emission band UE co-existence for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.3	Spurious emission band UE co-existence for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.4	Spurious emission band UE co-existence for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.5	Spurious emission band UE co-existence for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.6	Spurious emission band UE co-existence for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.2.7	Spurious emission band UE co-existence for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.1	Additional spurious emissions for CA (2UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.2	Additional spurious emissions for CA (3UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.3	Additional spurious emissions for CA (4UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.4	Additional spurious emissions for CA (5UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.5	Additional spurious emissions for CA (6UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.6	Additional spurious emissions for CA (7UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.3.7	Additional spurious emissions for CA (8UL CA)	FFS	FFS	FFS	FFS	NOTE 1
6.5D.1	Occupied bandwidth for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.5D.2.1	Spectrum Emission Mask for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.5D.2.2	Adjacent channel leakage ratio for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.5D.3.1	Transmitter Spurious emissions for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.5D.3.2	Spurious emission band UE co-existence for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1

		se		Applicability	Bands/CA- Configurations Selection	Additional Information (NOTE 3)
			Condition	Comment		
6.5D.3.3	Additional spurious emissions for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
6.6	Beam correspondence	FFS	FFS	FFS	FFS	NOTE 1
7	Receiver Characteristics					
7.3.2	Reference sensitivity power level		FR2_C01	UEs supporting 5GS FR2	FR2_D01	
7.3.4	EIS spherical coverage		FFS	FFS	FFS	NOTE 1
7.3A.2.1	Reference sensitivity power level for CA (2DL CA)		FFS	FFS	FFS	NOTE 1
7.3A.2.2	Reference sensitivity power level for CA (3DL CA)		FFS	FFS	FFS	NOTE 1
7.3A.2.3	Reference sensitivity power level for CA (4DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.3A.2.4	Reference sensitivity power level for CA (5DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.3A.2.5	Reference sensitivity power level for CA (6DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.3A.2.6	Reference sensitivity power level for CA (7DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.3A.2.7	Reference sensitivity power level for CA (8DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.3D.1	Reference sensitivity for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
7.3D.2	EIS spherical coverage for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
7.4	Maximum input level	Rel-15	N/A	not recommended due to testability issues (NOTE 2)	N/A	NOTE 1
7.4A.1	Maximum input level for CA (2DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.4A.2	Maximum input level for CA (3DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.4A.3	Maximum input level for CA (4DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.4A.4	Maximum input level for CA (5DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.4A.5	Maximum input level for CA (6DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.4A.6	Maximum input level for CA (7DL CA)		FFS	FFS	FFS	NOTE 1
7.4A.7	Maximum input level for CA (8DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.4D	Maximum input level for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
7.5	Adjacent channel selectivity		FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
7.5A.1	Adjacent channel selectivity for CA (2DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.5A.2	Adjacent channel selectivity for CA (3DL CA)		FFS	FFS	FFS	NOTE 1
7.5A.3	Adjacent channel selectivity for CA (4DL CA)		FFS	FFS	FFS	NOTE 1
7.5A.4	Adjacent channel selectivity for CA (5DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.5A.5	Adjacent channel selectivity for CA (6DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.5A.6	Adjacent channel selectivity for CA (7DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.5A.7	Adjacent channel selectivity for CA (8DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.5D	Adjacent channel selectivity for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
7.6.2	In-band Blocking		FR2_C01	UEs supporting 5GS FR2	FR2_D01	NOTE 1
7.6A.2.1	In-band blocking for CA (2DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.6A.2.2	In-band blocking for CA (3DL CA)		FFS	FFS	FFS	NOTE 1
7.6A.2.3	In-band blocking for CA (4DL CA)		FFS	FFS	FFS	NOTE 1
7.6A.2.4	In-band blocking for CA (5DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.6A.2.5	In-band blocking for CA (6DL CA)		FFS	FFS	FFS	NOTE 1

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			Condition	Comment		
7.6A.2.6	In-band blocking for CA (7DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.6A.2.7	In-band blocking for CA (8DL CA)	FFS	FFS	FFS	FFS	NOTE 1
7.6.D.1	In-band blocking for UL-MIMO	FFS	FFS	FFS	FFS	NOTE 1
7.9	Spurious emissions	FFS	FFS	FFS	FFS	NOTE 1

NOTE 1: The test case is incomplete.

NOTE 2: The test case applicability is set to N/A until the related testability issues are resolved.

NOTE 3: For conformance testing involving FR2 test cases, the UE under test shall disable UL Tx diversity schemes.

NOTE 4: All Power Class 3 UE supported bands needs to be tested to ensure the multiband relaxation declaration is compliant.

Table 4.1.2-1a: Applicability of RF SA FR2 conformance test cases Conditions

FR2_C0	1 IF A.4.1-1/2 AND A.4.1-3/1 THEN R ELSE N/A
Note 1:	: The ICS proforma are defined in TS 38.508-2 [8] unless otherwise state.

Table 4.1.2-1b: Tested Bands Selection Criteria

Code	•	Selection	Comment
FR2_D01		A.4.3.1-3	All supported FR2 Bands
Note 1:	Band S	Selection is based on set theory. For each feature, item num	ber shall correspond to the Band number. The result is the set of bands for which the test shall be
		cted. The following operators are used:	
	AN	ID: Set intersection (
	OR	R: Set union (\bigcup). {1,2} OR {2,3} = {1,2,3}	
	NC	OT: Set complement (\), full set being all bands. NOT{1} = {2	2256}
		Also note that this is set without repetitions so {1} AND {1}	= {1}
	The fo	llowing basic sets are used:	
	{1,:	2}: Explicitly given band set	
	-	MHz: All bands supporting 10 MHz	
	The fo	llowing sets derived from pro-forma tables are also used:	
	TBD		

Table 4.1.2-1c: Tested CA Configurations Selection Criteria

Code	Selection	Comment
FR2_Exy		

4.1.3 NR interworking between NR FR1 and NR FR2 and between NR and LTE conformance test cases

Table 4.1.3-1: Applicability of RF EN-DC FR1 and FR2 conformance test cases, ref. TS 38.521-3 [3]

Clause	TC Title			Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6	Transmitter Characteristics					
6.2B.1.1	UE Maximum Output Power for Intra-Band Contiguous EN-DC	Rel-15	C01	UEs supporting Intra-Band Contiguous EN-DC	D01	NOTE 1
6.2B.1.2	UE Maximum Output Power for Intra-Band Non- Contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.2B.1.3	UE Maximum Output Power for Inter-Band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-Band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.2.1 and skip TC 6.2B.1.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1
6.2B.1.4.1	UE maximum output power - EIRP and TRP	Rel-15	C04	UEs supporting Inter-Band EN-DC including FR2	D02	NOTE 3
6.2B.1.4.2	UE maximum output power - Spherical coverage	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.2B.2.1	UE Maximum Output Power reduction for Intra-Band Contiguous EN-DC	Rel-15	C01	UEs supporting Intra-Band Contiguous EN-DC	D01	
6.2B.2.2	UE Maximum Output Power reduction for Intra-Band Non-Contiguous EN-DC	Rel-15	C07	UEs supporting Intra-Band non- contiguous EN-DC within FR1	D01	NOTE 1
6.2B.2.3	UE Maximum Output Power reduction for Inter-Band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-Band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.2.2 and skip TC 6.2B.2.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.2B.2.4	UE Maximum Output Power reduction for Inter-Band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-Band EN-DC including FR2	D02	NOTE 1 NOTE 3
6.2B.3.1	UE Additional Maximum Output Power reduction for Intra-band contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.2B.3.2	UE Additional Maximum Output Power reduction for Intra-Band Non-Contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.2B.3.3	UE additional Maximum Output power reduction for inter-band EN-DC within FR1	FFS	FFS	FFS	FFS	NOTE 1
6.2B.3.4	UE Additional Maximum Output Power reduction for Inter-Band EN-DC including FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.2B.4.1.1	Configured Output Power Level for Intra-Band Contiguous EN-DC	Rel-15	C01	UEs supporting Intra-Band Contiguous EN-DC	D01	NOTE 1
6.2B.4.1.2	Configured Output Power for Intra-Band Non- Contiguous EN-DC	Rel-15	C02	UEs supporting Intra-Band Non- Contiguous EN-DC	D01	NOTE 1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.2B.4.1.3	Configured Output Power for Inter-Band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-Band EN-DC within FR1	D01	Execute TS 38.521-1 6.2.4 and skip 6.2B.4.1.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1
6.2B.4.1.4	Configured Output Power for Inter-Band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-Band EN-DC including FR2	D02	Execute TS 38.521-2 6.2.1.1 and skip 6.2B.4.1.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.3B.1.1	Minimum Output power for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	NOTE 1
6.3B.1.2	Minimum output power for intra-band non-contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.3B.1.3	Minimum output power for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 6.3.1 and skip 6.3B.1.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.3B.1.4	Minimum Output Power for EN-DC Interband including FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.3B.2.1	Transmit OFF Power for intra-band contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.3B.2.2	Transmit OFF Power for intra-band non-contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.3B.2.3	Transmit OFF Power for inter-band EN-DC within FR1	FFS	FFS	FFS	FFS	NOTE 1
6.3B.2.4	Transmit OFF Power for inter-band EN-DC including FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.3B.3.1	Tx ON/OFF time mask for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.3B.3.2	Tx ON/OFF time mask for intra-band non-contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.3B.3.3	Tx ON/OFF time mask for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.3.3.2 and skip TC 6.3B.3.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.3B.3.4	Tx ON/OFF time mask for inter-band EN-DC including FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.3B.4.1	PRACH time mask for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	Execute TS 38.521-1 TC 6.3.3.4 and skip TC 6.3B.4.1 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.3B.4.2	PRACH Time Mask for intra-band non-contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	Execute TS 38.521-1 TC 6.3.3.4 and skip TC 6.3B.4.2 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.3B.4.3	PRACH Time Mask for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.3.3.4 and skip TC 6.3B.4.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.3B.4.4	PRACH Time Mask for inter-band EN-DC including FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.3B.5.1	E-UTRA and NR switching time mask for TDM based UL sharing from UE perspective and intraband contiguous scenario	FFS	FFS	FFS	FFS	NOTE 1
6.3B.6.1	E-UTRA to NR and NR to E-UTRA Switching time mask for intra-band non-contiguous scenario	FFS	FFS	FFS	FFS	NOTE 1
6.4B.1.1	Frequency Error for intra-band contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.4B.1.2	Frequency Error for intra-band non-contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.4B.1.3	Frequency error for Inter-band EN-DC within FR1	FFS	FFS	FFS	FFS	NOTE 1
6.4B.1.4	Frequency Error for EN-DC within FR1 (> 1 NR CC)	1	FFS	FFS		NOTE 1
6.4B.1.5	Frequency Error for inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-Band EN-DC including FR2	D02	NOTE 1 NOTE 3

Clause	TC Title			Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.4B.2.1.1	Error Vector Magnitude for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.4B.2.1.2	Carrier Leakage for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.4B.2.1.3	In-band Emissions for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	NOTE 1
6.4B.2.1.4	EVM Equalizer Flatness for intra-band contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.4B.2.2.1	Error Vector Magnitude for intra-band non- contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.4B.2.2.2	Carrier Leakage for intra-band non-contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	
6.4B.2.2.3	In-band Emissions for intra-band non-contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.4B.2.2.4	EVM Equalizer Flatness for intra-band non contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.4B.2.3.1	Error Vector Magnitude for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.4.2.1 and skip TC 6.4B.2.3.1 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.4B.2.3.2	Carrier Leakage for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.4.2.2 and skip TC 6.4B.2.3.2 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.4B.2.3.3	In-band Emissions for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.4.2.3 and skip TC 6.4B.2.3.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.4B.2.3.4	EVM Equalizer Flatnessfor inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.4.2.4 and skip TC 6.4B.2.3.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.4B.2.4.1	Error Vector Magnitude for inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.4.2.1 and skip 6.4B.2.4.1 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.4B.2.4.2	Carrier Leakage for inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.4.2.2 and skip 6.4B.2.4.2 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.4B.2.4.3	In-band Emissions for inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.4.2.3 and skip 6.4B.2.4.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.4B.2.4.4	EVM Equalizer Flatness for inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.4.2.4 and skip 6.4B.2.4.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.5A.1	Occupied Bandwidth for CA without EN-DC	FFS	N/A	FFS	FFS	NOTE 1
6.5A.2.1	Spectrum emissions mask for CA without EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.5A.2.2	Additional Spectrum emissions mask for CA without EN-DC	FFS	N/A	FFS	FFS	
6.5A.2.3	Adjacent channel leakage ratio for CA without EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.5A.3.1	General Spurious Emissions for CA without EN-DC	FFS	N/A	FFS	FFS	NOTE 1

Clause	TC Title			Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.5A.3.2	Spurious Emission band UE co-existence for CA without EN-DC	FFS	N/A	FFS	FFS	NOTE 1
6.5B.1.1	Occupied bandwidth for Intra-Band Contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	NOTE 1
6.5B.1.2	Occupied bandwidth for Intra-Band Non-Contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.5B.1.3	Occupied bandwidth for Inter-Band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 6.5.1 and skip 6.5B.1.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.5B.1.4	Occupied bandwidth for Inter-Band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.5.1 and skip 6.5B.1.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.5B.2.1.1	Spectrum emissions mask for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.5B.2.1.2	Additional spectrum emissions mask for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.5B.2.1.3	Adjacent channel leakage ratio for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.5B.2.2.1	Spectrum emissions mask for intra-band non- contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.5B.2.2.2	Additional Spectrum emissions mask for intra-band non-contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.5B.2.2.3	Adjacent channel leakage ratio for intra-band non- contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.5B.2.3.1	Spectrum emissions mask for Inter-band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 6.5.2.2 and skip 6.5B.2.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.5B.2.3.2	Additional Spectrum emissions mask for Inter-band EN-DC within FR1	FFS	FFS	FFS	FFS	NOTE 1

Clause	TC Title	Release	,		Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.5B.2.3.3	Adjacent channel leakage ratio for inter-band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 6.5.2.4.1 and skip 6.5B.2.3.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.5B.2.4.1	Spectrum emissions mask for Inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.5.2.1 and skip 6.5B.1.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.5B.2.4.2	Additional Spectrum emissions mask for Inter-band EN-DC including FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
6.5B.2.4.3	Adjacent channel leakage ratio for Inter-band EN-DC including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.5.2.3 and skip 6.5B.1.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.5B.3.1.1	General spurious emissions for intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.5B.3.1.2	Spurious emission band UE co-existence for intra- band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.5B.3.2.1	General spurious emissions for intra-band non- contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	
6.5B.3.2.2	Spurious emission band UE co-existence for intra- band non-contiguous EN-DC	FFS	FFS	FFS	FFS	NOTE 1
6.5B.3.3.1	General spurious emissions for Inter-band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 6.5.3.1 and skip 6.5B.3.3.1 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
6.5B.3.3.2	Spurious emission band UE co-existence for Interband within FR1	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 6.5.3.2 and skip TC 6.5B.3.3.2 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
6.5B.3.4.1	General Spurious Emissions for Inter-band including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	Execute TS 38.521-2 6.5.3.1 and skip 6.5B.3.4 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1. NOTE 1 NOTE 3
6.5B.3.4.2	Spurious emission band UE co-existence for Interband including FR2	Rel-15	C04	UEs supporting Inter-band including FR2	D02	NOTE 1 NOTE 3
6.5B.4.1	Additional Spurious Emissions for Intra-band contiguous EN-DC	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
6.5B.4.2	Additional Spurious Emissions for Intra-band non- contiguous EN-DC	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
6.5B.4.3	Additional Spurious Emissions for Inter-band EN-DC	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	
6.5B.4.4	Transmit Intermodulation for inter-band EN-DC within FR2	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7	Receiver Characteristics					
7.3A.2	Reference sensitivity power level for CA without EN-DC	FFS	FFS	FFS	FFS	NOTE 1
7.3A.4	Reference sensitivity exceptions due to UL harmonic interference for CA	FFS	FFS	FFS	FFS	NOTE 1
7.3B.2.1	Reference sensitivity for intra-band contiguous EN- DC (2 CCs)	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	
7.3B.2.2	Reference sensitivity for Intra-band non-contiguous EN-DC (2 CCs)	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	
7.3B.2.3	Reference sensitivity for Inter-band EN-DC within FR1	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.3.2 and skip 7.3B.2.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
7.3B.2.4.1	Reference sensitivity for Inter-band EN-DC including FR2 (2 CCs)	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-2 7.3.2 and skip 7.3B.2.4.1 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1 NOTE 3
7.3B.2.4.2	Reference sensitivity for Inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.3B.2.4.3	Reference sensitivity for Inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.3B.2.4.4	Reference sensitivity for Inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.3B.2.4.5	Reference sensitivity for Inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.3B.2.6	Reference sensitivity for EN-DC within FR1 (3 CCs)	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.3A.2 and skip 7.3B.2.6 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.3B.2.7	Reference sensitivity for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.3B.2.8	Reference sensitivity for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.3B.2.9	Reference sensitivity for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.4B.1	Maximum Input Level for Intra-Band Contiguous EN-DC (2 CCs)	Rel-15	C01	UEs supporting Intra-Band Contiguous EN-DC	D01	
7.4B.2	Maximum Input Level for Intra-Band Non-Contiguous EN-DC (2 CCs)	Rel-15	C02	UEs supporting Intra-Band Non- Contiguous EN-DC	D01	
7.4B.3	Maximum Input Level for Inter-band EN-DC within FR1	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.4 and skip 7.4B.3 if UE supports SA. E- UTRA is tested standalone using TS 36.521-1
7.4B.4.1	Maximum Input Level for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.4B.4.2	Maximum Input Level for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.4B.4.3	Maximum Input Level for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
7.4B.4.4	Maximum Input Level for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.4B.4.5	Maximum Input Level for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.4B.6	Maximum Input Level for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.4B.7	Maximum Input Level for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.4B.8	Maximum Input Level for EN-DC witihn FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.4B.9	Maximum Input Level for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.5B.1	Adjacent Channel Selectivity for intra-band contiguous EN-DC (2 CCs)	Rel-15	C01	UEs supporting intra-band contiguous EN-DC	D01	NOTE 1
7.5B.2	Adjacent Channel Selectivity for intra-band non- contiguous EN-DC (2 CCs)	Rel-15	C02	UEs supporting intra-band non- contiguous EN-DC	D01	NOTE 1
7.5B.3	Adjacent Channel Selectivity for inter-band EN-DC within FR1 (2 CCs)	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.5 and skip 7.5B.3 if UE supports SA. E- UTRA is tested standalone using TS 36.521-1
7.5B.4.1	Adjacent Channel Selectivity for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.5B.4.2	Adjacent Channel Selectivity for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.5B.4.3	Adjacent Channel Selectivity for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.5B.4.4	Adjacent Channel Selectivity for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.5B.4.5	Adjacent Channel Selectivity for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.5B.6	Adjacent Channel Selectivity for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.5B.7	Adjacent Channel Selectivity for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.5B.8	Adjacent Channel Selectivity for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.5B.9	Adjacent Channel Selectivity for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.2.1	Inband blocking for intra-band contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.2.2	Inband blocking for intra-band non-contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
7.6B.2.3	Inband blocking for inter-band EN-DC within FR1 (2 CCs)	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.6. 2 and skip 7.6B.2.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.6B.2.4.1	Inband blocking for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.2.4.2	Inband blocking for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.2.4.3	Inband blocking for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.2.4.4	Inband blocking for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.2.4.5	Inband blocking for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.2.6	Inband blocking for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.2.7	Inband blocking for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.2.8	Inband blocking for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.2.9	Inband blocking for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.3.1	Out-of-band blocking for intra-band contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.3.2	Out-of-band blocking for intra-band non-contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.3.3	Out-of-band blocking for inter-band EN-DC within FR1 (2 CCs)	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.6.3 and skip 7.6B.3.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.6B.3.4.1	Out-of-band blocking for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.3.4.2	Out-of-band blocking for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.3.4.3	Out-of-band blocking for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.3.4.4	Out-of-band blocking for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.3.4.5	Out-of-band blocking for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
7.6B.3.6	Out-of-band blocking for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.3.7	Out-of-band blocking for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.3.8	Out-of-band blocking for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.3.9	Out-of-band blocking for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.4.1	Narrow band blocking for intra-band contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.4.2	Narrow band blocking for intra-band non-contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.4.3	Narrow band blocking for inter-band EN-DC within FR1 (2 CCs)	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.6. 4 and skip 7.6B.4.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.6B.4.4.1	Narrow band blocking for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.4.4.2	Narrow band blocking for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.4.4.3	Narrow band blocking for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.4.4.4	Narrow band blocking for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.4.4.5	Narrow band blocking for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.6B.4.6	Narrow band blocking for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.4.7	Narrow band blocking for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.4.8	Narrow band blocking for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.6B.4.9	Narrow band blocking for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.7B.1	Spurious Response for intra-band contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.7B.2	Spurious Response for intra-band non-contiguous EN-DC (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.7B.3	Spurious Response for inter-band EN-DC within FR1 (2 CCs)	Rel-15	C03	UEs supporting Inter-band EN-DC within FR1	D01	Execute TS 38.521-1 7.7 and skip 7.7B.3 if UE supports SA. E- UTRA is tested standalone using TS 36.521-1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
7.7B.4.1	Spurious Response for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.7B.4.2	Spurious Response for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.7B.4.3	Spurious Response for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.7B.4.4	Spurious Response for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.7B.4.5	Spurious Response for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.7B.6	Spurious Response for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.7B.7	Spurious Response for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.7B.8	Spurious Response for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.7B.9	Spurious Response for EN-DC withhn FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.8B.2.1	Wideband Intermodulation for intra-band contiguous EN-DC in FR1	Rel-15	C01	UEs supporting Intra-Band Contiguous EN-DC	D01	NOTE 1
7.8B.2.2	Wideband Intermodulation for intra-band non- contiguous EN-DC in FR1	Rel-15	C02	UEs supporting Intra-Band non- contiguous EN-DC	D01	Execute TS 38.521-1 7.8. 2 and skip 7.8B.2.2 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.8B.2.3	Wideband Intermodulation for inter-band EN-DC in FR1 (2 CCs)	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 7.8.2 and skip TC 7.8B.2.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.8B.2.4.1	Wideband Intermodulation for EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.8B.2.4.2	Wideband Intermodulation for EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.8B.2.4.3	Wideband Intermodulation for EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.8B.2.4.4	Wideband Intermodulation for EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.8B.2.4.5	Wideband Intermodulation for EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.8B.2.6	Wideband Intermodulation for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1

Clause	TC Title	Release		Applicability	Tested Bands/CA- Configurations Selection	Additional Information
			Condition	Comment		
7.8B.2.7	Wideband Intermodulation for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.8B.2.8	Wideband Intermodulation for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.8B.2.9	Wideband Intermodulation for EN-DC within FR1 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.9B.1	Spurious Emissions for intra-band contiguous EN-DC in FR1(2 CCs)	Rel-15	C01	UEs supporting Intra-Band Contiguous EN-DC	D01	Execute TS 38.521-1 TC 7.9 and skip TC 7.9B.1 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.9B.2	Spurious Emissions for intra-band non-contiguous EN-DC in FR1(2 CCs)	Rel-15	C02	UEs supporting Intra-Band non- contiguous EN-DC	D01	Execute TS 38.521-1 TC 7.9 and skip TC 7.9B.2 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.9B.3	Spurious Emissions for inter-band EN-DC within FR1 (2 CCs)	Rel-15	C03	UEs supporting inter-band EN-DC within FR1	D01	Execute TS 38.521-1 TC 7.9 and skip TC 7.9B.3 if UE supports SA. E-UTRA is tested standalone using TS 36.521-1
7.9B.4.1	Spurious Emissions for inter-band EN-DC including FR2 (2 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.9B.4.2	Spurious Emissions for inter-band EN-DC including FR2 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.9B.4.3	Spurious Emissions for inter-band EN-DC including FR2 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.9B.4.4	Spurious Emissions for inter-band EN-DC including FR2 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.9B.4.5	Spurious Emissions for inter-band EN-DC including FR2 (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.9B.6	Spurious Emissions for EN-DC within FR1 (3 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.9B.7	Spurious Emissions for EN-DC within FR1 (4 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.9B.8	Spurious Emissions for EN-DC within FR1 (5 CCs)	FFS	FFS	FFS	FFS	NOTE 1
7.9B.9	Spurious Emissions for EN-DC (6 CCs)	FFS	FFS	FFS	FFS	NOTE 1

Clause	TC Title	Release	Applicability		Tested	Additional
					Bands/CA-	Information
					Configurations	
					Selection	
			Condition	Comment		
NOTE 1: The tes	st case is incomplete.					
NOTE 2: The tes	st case applicability is set to N/A until the related testabi	lity issues a	are resolved.			
NOTE 3: For conformance testing involving FR2 test cases, the UE under test shall disable UL Tx diversity schemes.						
NOTE 4: : All Pow	ver Class 3 UE supported bands needs to be tested to e	ensure the i	multiband relax	ation declaration is compliant		

Table 4.1.3-1a: Applicability of RF EN-DC conformance test cases Conditions

C01	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND A.4.1-4/1 THEN R ELSE N/A
C02	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND A.4.1-4/2 THEN R ELSE N/A
C03	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND A.4.1-4/3 THEN R ELSE N/A
C04	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND A.4.1-4/4 THEN R ELSE N/A
C05	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND (A.4.1-4/3 OR A.4.1-4/4) THEN R ELSE N/A
C06	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND (A.4.1-4/1 OR A.4.1-4/2 OR A.4.1-4/3 OR A.4.1-4/4) THEN
	R ELSE N/A
C07	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/2 AND A.4.1-4/2 AND A.4.3.2-1/17 THEN R ELSE N/A
Note	1: The ICS proforma are defined in TS 38.508-2 [8] unless otherwise state.

Table 4.1.3-1b: Tested Bands Selection Criteria for RF EN-DC conformance test cases

Code	Selection	Comment				
D01	A.4.3.1-1 OR A.4.3.1-2	All supported FR1 Bands				
D02	A.4.3.1-3	All supported FR2 Bands				
D03	A.4.3.1-1 OR A.4.3.1-2 OR A.4.3.1-3	All supported NR Bands				
Note 1:		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 (
	OR: Set union (\bigcup). $\{1,2\}$ OR $\{2,3\} = \{1,2,3\}$					
	NOT: Set complement (\), full set being all bands. NOT{1} = {2256}					
	Also note that this is set without repetitions so {1} AND	(1) = (1)				
	The following basic sets are used:					
	{1,2}: Explicitly given band set					
	10MHz: All bands supporting 10 MHz					
	The following sets derived from pro-forma tables are also used:					
	TBD					

Table 4.1.3-1c: Tested CA Configurations Selection Criteria for RF EN-DC conformance test cases

Code	Selection	Comment
Exy		

4.1.4 Performance conformance test cases

Table 4.1.4-1: Applicability of performance test cases, ref. TS 38.521-4 [4]

Clause	TC Title	Release		Applicability	Tested Bands Selection	Additional Information
			Condition	Comment		
5	Demodulation performance requirements (Conducted requirements)					
5.2.2.1.1_1	2Rx FDD FR1 PDSCH mapping Type A performance - 2x2 MIMO with baseline receiver for both SA and NSA	Rel-15	Perf_C01	UEs supporting 5GS FDD FR1	Perf_D01, Perf_D03	
5.2.2.1.1_2	2Rx FDD FR1 PDSCH mapping Type A performance - 2x2 MIMO with enhanced receiver type X for both SA and NSA	Rel-15	Perf_C01a	UEs supporting 5GS FDD FR1 and Enhanced Receiver Type X	Perf_D01	
5.2.2.1.2_1	2Rx FDD FR1 PDSCH mapping Type A and CSI-RS overlapped with PDSCH performance - 2x2 MIMO with baseline receiver for both SA and NSA	Rel-15	Perf_C01	UEs supporting 5GS FDD FR1	Perf_D01	
5.2.2.2.1_1	2Rx TDD FR1 PDSCH mapping Type A performance - 2x2 MIMO with baseline receiver for both SA and NSA	Rel-15	Perf_C02	UEs supporting 5GS TDD FR1	Perf_D02, Perf_D03	
5.2.2.2.1_2	2Rx TDD FR1 PDSCH mapping Type A performance - 2x2 MIMO with enhanced receiver type X for both SA and NSA	Rel-15	Perf_C02a	UEs supporting 5GS TDD FR1 and Enhanced Receiver Typer X	Perf_D03	
5.2.2.2.2_1	2Rx TDD FR1 PDSCH mapping Type A and CSI-RS overlapped with PDSCH performance - 2x2 MIMO with baseline receiver for both SA and NSA	Rel-15	Perf_C02	UEs supporting 5GS TDD FR1	Perf_D03	
5.2.3.1.1_1	4Rx FDD FR1 PDSCH mapping Type A performance - 2x4 MIMO baseline receiver for both SA and NSA	Rel-15	Perf_C03	UEs supporting 5GS FDD FR1 and 4Rx antenna ports	Perf_D01, Perf_D02	
5.2.3.1.1_2	4Rx FDD FR1 PDSCH mapping Type A performance - 4x4 MIMO baseline receiver for both SA and NSA	Rel-15	Perf_C03	UEs supporting 5GS FDD FR1 and 4Rx antenna ports	Perf_D01, Perf_D02	
5.2.3.1.1_4	4Rx FDD FR1 PDSCH mapping Type A performance - 4x4 MIMO with enhanced receiver type X for both SA and NSA	Rel-15	Perf_C03a	UEs supporting 5GS FDD FR1 and 4Rx antenna ports and Enhanced Receiver Type X	Perf_D01	
5.2.3.1.4_1	4Rx FDD FR1 PDSCH Mapping Type A and LTE-NR coexistence performance - 4x4 MIMO with baseline receiver for both SA and NSA	Rel-15	Perf_C03c	UEs supporting 5GS FDD FR1 and 4Rx antenna ports and LTE-NR coexistence	Perf_D01	
5.2.3.2.1_1	4Rx TDD FR1 PDSCH mapping Type A performance - 2x4 MIMO with baseline receiver for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.2.3.2.1_2	4Rx TDD FR1 PDSCH mapping Type A performance - 4x4 MIMO with baseline receiver for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.2.3.2.1_4	4Rx TDD FR1 PDSCH mapping Type A performance - 4x4 MIMO with enhanced receiver type X for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.3.2.1.1	2Rx FDD FR1 PDCCH 1 Tx antenna performance for both SA and NSA	Rel-15	Perf_C01	UEs supporting 5GS FDD FR1	Perf_D01	
5.3.2.1.2	2Rx FDD FR1 PDCCH 2 Tx antenna performance for both SA and NSA	Rel-15	Perf_C01	UEs supporting 5GS FDD FR1	Perf_D01	
5.3.2.2.1	2Rx TDD FR1 PDCCH 1 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1

Clause	TC Title	Release	Applicability		Tested Bands Selection	Additional Information
			Condition	Comment		
5.3.2.2.2	2Rx TDD FR1 PDCCH 2 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.3.3.1.1	4Rx FDD FR1 PDCCH 1 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.3.3.1.2	4Rx FDD FR1 PDCCH 2 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.3.3.2.1	4Rx TDD FR1 PDCCH 1 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
5.3.3.2.2	4Rx TDD FR1 PDCCH 2 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
6	CSI reporting requirements					
6.2.2.1.1.1	2Rx FDD FR1 periodic CQI reporting under AWGN conditions for both SA and NSA	Rel-15	Perf_C01	UEs supporting 5GS FDD FR1	Perf_D01	
6.2.2.1.2.1	2Rx FDD FR1 periodic wideband CQI reporting under fading conditions for both SA and NSA	Rel-15	Perf_C01	UEs supporting 5GS FDD FR1	Perf_D01	NOTE 1
6.2.2.2.1.1	2Rx TDD FR1 periodic CQI reporting under AWGN conditions for both SA and NSA	Rel-15	Perf_C02	UEs supporting 5GS TDD FR1	Perf_D03	
6.3.2.1.1_1	2Rx FDD FR1 Single PMI with 4Tx TypeI – SinglePanel codebook for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
6.3.2.1.2_1	2Rx FDD FR1 Single PMI with 8Tx TypeI – SinglePanel codebook for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
6.3.2.2.1	2Rx TDD FR1 Single PMI with 4Tx Type1 - SinglePanel codebook for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
6.4.2.2.1	2Rx TDD FR1 RI reporting for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1
7	Demodulation performance requirements (Radiated requirements)					
7.2.2.2.1_1	2Rx TDD FR2 PDSCH mapping Type A performance - 2x2 MIMO with baseline receiver for SA and NSA	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.2.2.2.1_2	2Rx TDD FR2 PDSCH mapping Type A performance - 2x2 MIMO with enhanced type X receiver for SA and NSA	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.3.2.2.1	2Rx TDD FR2 PDCCH 1 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3
7.3.2.2.2	2Rx TDD FR2 PDCCH 2 Tx antenna performance for both SA and NSA	FFS	FFS	FFS	FFS	NOTE 1 NOTE 3

NOTE 1: The test case is incomplete.

NOTE 2: Void.

NOTE 3: For conformance testing involving FR2 test cases, the UE under test shall disable UL Tx diversity schemes. NOTE 4: Void.

Table 4.1.4-1a: Applicability of RF performance conformance test cases Conditions

Perf_C01 IF A.4.1-1/1 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) THEN R ELSE N/A
Perf_C01a IF A.4.1-1/1 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) AND A.4.3.9-1/1 THEN R ELSE N/A
Perf_C02 IF A.4.1-1/2 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) THEN R ELSE N/A
Perf_C02a IF A.4.1-1/2 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) AND A.4.3.9-1/1 THEN R ELSE N/A
Perf_C03 IF A.4.1-1/1 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) THEN R ELSE N/A
Perf_C03a IF A.4.1-1/1 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) AND A.4.3.9-1/1 THEN R ELSE N/A
Perf_C03clF A.4.1-1/1 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) AND A.4.3.2-1/20 THEN R ELSE N/A
Perf_C04 IF A.4.1-1/2 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) THEN R ELSE N/A
Perf_C04a IF A.4.1-1/2 AND (A.4.1-3/1 OR A.4.1-3/2 OR A.4.1-3/3 OR A.4.1-3/5) AND A.4.3.9-1/1 THEN R ELSE N/A
NOTE 1: The ICS proforma are defined in TS 38.508-2 [8] unless otherwise state.

Table 4.1.4-1b: Tested Bands Selection Criteria for RF performance conformance test cases

Code	Selection	Comment
Perf_D01	ANY((A.4.3.1-1 OR A.4.3.1-2) AND 10MHz)	Any band within the set supporting 10 MHz UE Channel BW
Perf_D02	ANY((A.4.3.1-1 OR A.4.3.1-2) AND 20MHz)	Any band within the set supporting 20 MHz UE Channel BW
Perf_D03	ANY((A.4.3.1-1 OR A.4.3.1-2) AND 40MHz)	Any band within the set supporting 40 MHz UE Channel BW
Note 1:	Band Selection is based on set theory. For each feature, item number sh	all 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 (\bigcap). {1,2} AND {2,3} = {2}	

AND: Set intersection (11), $\{1,2\}$ AND $\{2,3\} = \{2,3\}$ OR: Set union (11), $\{1,2\}$ 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:

{1,2}: Explicitly given band set 10MHz: All bands supporting 10 MHz

The following derived sets are also used:

ANY(): Arbitrarily select a band within set

4.2 RRM conformance test cases

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

Table 4.2-1: Applicability of RRM EN-DC FR1 conformance test cases, ref. TS 38.533 [5]

Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
4.3	RRC_CONNECTED state mobility					
4.3.2	RRC connection mobility control					
4.3.2.2	Random access					
4.3.2.2.1	Contention based random access test in FR1 for PSCell in EN-DC	FFS	FFS	FFS	NOTE 1	
4.3.2.2.2	Non-contention based random access test in FR1 for PSCell in EN-DC	FFS	FFS	FFS	NOTE 1	
4.4	Timing					
4.4.1	UE Transmit Timing					
4.4.1.1	EN-DC FR1 UE transmit timing accuracy	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.4.2	UE timer accuracy					
4.4.3	Timing Advance					
4.4.3.1	EN-DC FR1 timing advance adjustment accuracy	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.5	Signalling characteristics		_			
4.5.1	Radio link monitoring					
4.5.1.1	EN-DC FR1 radio link monitoring out-of-sync test for PSCell configured with SSB-based RLM RS in non-DRX mode	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.5.1.2	EN-DC FR1 radio link monitoring in-sync test for PSCell configured with SSB-based RLM RS in non-DRX mode	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.5.1.3	EN-DC FR1 radio link monitoring out-of-sync test for PSCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
4.5.1.4	EN-DC FR1 radio link monitoring in-sync test for PSCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
4.5.1.5	EN-DC FR1 radio link monitoring out-of-sync test for PSCell configured with CSI-RS-based RLM RS in non-DRX mode	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.5.1.6	EN-DC FR1 radio link monitoring in-sync test for PSCell configured with CSI-RS-based RLM RS in non-DRX mode	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.5.1.7	EN-DC FR1 radio link monitoring out-of-sync test for PSCell configured with CSI-RS-based RLM RS in DRX mode	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.5.1.8	EN-DC FR1 radio link monitoring in-sync test for PSCell configured with CSI-RS-based RLM RS in DRX mode	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.5.2	Interruption					
4.5.2.1	EN-DC FR1 interruptions at transitions between active and non-active during DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	

Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
4.5.2.2	EN-DC FR1 interruptions at transitions between active and non-active during DRX in asynchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.2.3	EN-DC FR1 interruptions during measurements on deactivated NR SCC in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.2.4	EN-DC FR1 interruptions during measurements on deactivated NR SCC in asynchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.2.5	EN-DC FR1 interruptions during measurements on deactivated E-UTRAN SCC in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.2.6	EN-DC FR1 interruptions during measurements on deactivated E-UTRAN SCC in asynchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.2.7	EN-DC FR1 interruptions at UL carrier RRC reconfiguration for NR Scell		FFS	FFS	NOTE 1	
4.5.3	SCell activation and deactivation delay					
4.5.3.1	EN-DC FR1 SCell activation and deactivation of known SCell in non-DRX for 160ms SCell measurement cycle	FFS	FFS	FFS	NOTE 1	
4.5.3.2	EN-DC FR1 SCell activation and deactivation of known SCell in non-DRX for 320ms SCell measurement cycle	FFS	FFS	FFS	NOTE 1	
4.5.3.3	EN-DC FR1 SCell activation and deactivation of unknown SCell in non-DRX	FFS	FFS	FFS	NOTE 1	
4.5.4	UE UL carrier RRC reconfiguration delay					
4.5.4.1	EN-DC FR1 UE UL carrier RRC reconfiguration delay	FFS	FFS	FFS	NOTE 1	
4.5.5	Beam failure detection and link recovery procedures					
4.5.5.1	EN-DC FR1 SSB-based beam failure detection and link recovery in non-DRX	FFS	FFS	FFS	NOTE 1	
4.5.5.2	EN-DC FR1 SSB-based beam failure detection and link recovery in DRX	FFS	FFS	FFS	NOTE 1	
4.5.5.3	EN-DC FR1 CSI-RS-based beam failure detection and link recovery in non-DRX	FFS	FFS	FFS	NOTE 1	
4.5.5.4	EN-DC FR1 CSI-RS-based beam failure detection and link recovery in DRX	FFS	FFS	FFS	NOTE 1	
4.5.6	Active BWP switch delay					
4.5.6.1	DCI-based and timer-based active BWP switch					
4.5.6.1.1	EN-DC FR1 DCI-based DL active BWP switch in non- DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.6.1.2	EN-DC FR1 DCI-based DL active BWP switch with SCell in non-DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.5.6.2	RRC-based active BWP switch					
4.5.6.2.1	EN-DC FR1 RRC-based DL active BWP switch in non-DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
4.6	Measurement procedures					
4.6.1	Intra-frequency measurements					

Clause	TC Title	Release	ease Applicability		Additional Information	Branch
			Condition	Comment		
4.6.1.1	EN-DC FR1 event-triggered reporting without gap in non-DRX	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.6.1.2	EN-DC FR1 event-triggered reporting without gap in DRX	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.6.1.3	EN-DC FR1 event-triggered reporting with gap in non-DRX	FFS	FFS	FFS	NOTE 1	
4.6.1.4	EN-DC FR1 event-triggered reporting with gap in DRX	FFS	FFS	FFS	NOTE 1	
4.6.1.5	EN-DC FR1 event-triggered reporting without gap in non-DRX with SSB time index detection	FFS	FFS	FFS	NOTE 1	
4.6.1.6	EN-DC FR1 event-triggered reporting with gap in non- DRX with SSB time index detection	FFS	FFS	FFS	NOTE 1	
4.6.2	Inter-frequency measurements					
4.6.2.1	EN-DC FR1-FR1 event-triggered reporting in non-DRX	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.6.2.2	EN-DC FR1-FR1 event-triggered reporting in DRX	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.6.2.5	EN-DC FR1-FR1 event-triggered reporting in non-DRX with SSB time index detection	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.6.2.6	EN-DC FR1-FR1 event-triggered reporting in DRX with SSB time index detection	Rel-15	RE1_C001	UE supporting EN-DC FR1		
4.7	Measurement performance requirements					
4.7.1	SS-RSRP					
4.7.1.1	Intra-frequency measurements					
4.7.1.1.1	EN-DC FR1 SS-RSRP absolute measurement accuracy	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.7.1.1.2	EN-DC FR1 SS-RSRP relative measurement accuracy	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.7.1.2	Inter-frequency measurements					
4.7.1.2.1	EN-DC FR1-FR1 SS-RSRP absolute measurement accuracy	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.7.1.2.2	EN-DC FR1-FR1 SS-RSRP relative measurement accuracy	Rel-15	RE1_C001	UE supporting EN-DC FR1	NOTE 1	
4.7.2	SS-RSRQ					
4.7.2.1	EN-DC FR1 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.7.2.2	EN-DC FR1-FR1 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.7.3	SS-SINR					
4.7.3.1	EN-DC FR1 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.7.3.2	EN-DC FR1-FR1 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.7.4	L1-RSRP					
4.7.4.1	EN-DC FR1 SSB-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.7.4.2	EN-DC FR1 CSI-RS-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.7.5	SFTD					
4.7.5.1	EN-DC FR1 SFTD measurement accuracy	FFS	FFS	FFS	NOTE 1	

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Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
4.7.5.2	EN-DC FR1-FR1 SFTD measurement accuracy	FFS	FFS	FFS	NOTE 1	
4.8	PSCell addition and release delay	FFS	FFS	FFS	NOTE 1	
4.8.1	EN-DC FR1 addition and release delay of known PSCell	FFS	FFS	FFS	NOTE 1	

NOTE 1: The test case is incomplete.

NOTE 2: Void.

NOTE 3: Void.

NOTE 4: Void.

Table 4.2-1a: Applicability of RRM EN-DC FR1 conformance test cases Conditions

RE1_C001	IF (A.4.1-4/1 OR A.4.1-4/2 OR A.4.1-4/3 OR A.4.1-4/5) AND A.4.1-3/2 THEN R ELSE N/A
Note 1: The	ICS proforma are defined in TS 38.508-2 [8].

Table 4.2-2: Applicability of RRM EN-DC FR2 conformance test cases, ref. TS 38.533 [5]

Clause	TC Title	Release		Applicability	Additional Information (NOTE 3)	Branch
			Condition	Comment	∃ ` ´	
5.3	RRC_CONNECTED state mobility					
5.3.2	RRC connection mobility control					
5.3.2.2	Random access					
5.3.2.2.1	EN-DC FR2 contention based random access	FFS	FFS	FFS	NOTE 1	
5.3.2.2.2	EN-DC FR2 non-contention based random access	FFS	FFS	FFS	NOTE 1	
5.4	Timing					
5.4.1	UE transmit timing					
5.4.1.1	EN-DC FR2 UE transmit timing accuracy	FFS	FFS	FFS	NOTE 1	
5.4.2	UE timer accuracy	_	_			
5.4.3	Timing advance					
5.4.3.1	EN-DC FR2 timing advance adjustment accuracy	FFS	FFS	FFS	NOTE 1	
5.5	Signaling characteristics		_			
5.5.1	Radio link monitoring					
5.5.1.1	EN-DC FR2 radio link monitoring out-of-sync test for PSCell configured with SSB-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.2	EN-DC FR2 radio link monitoring in-sync test for PSCell configured with SSB-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.3	EN-DC FR2 radio link monitoring out-of-sync test for PSCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.4	EN-DC FR2 radio link monitoring in-sync test for PSCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.5	EN-DC FR2 radio link monitoring out-of-sync test for PSCell configured with CSI-RS-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.6	EN-DC FR2 radio link monitoring in-sync test for PSCell configured with CSI-RS-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.7	EN-DC FR2 radio link monitoring out-of-sync test for PSCell configured with CSI-RS-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.1.8	EN-DC FR2 radio link monitoring in-sync test for PSCell configured with CSI-RS-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
5.5.2	Interruption					
5.5.2.1	EN-DC FR2 interruptions at transitions between active and non-active during DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.2.2	EN-DC FR2 interruptions at transitions between active and non-active during DRX in asynchronous EN-DC	FFS	FFS	FFS	NOTE 1	

5.5.2.3	EN-DC FR2 interruptions during measurements on deactivated NR SCC in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.2.4	EN-DC FR2 interruptions during measurements on deactivated NR SCC in asynchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.2.5	EN-DC FR2 interruptions during measurements on deactivated E-UTRAN SCC in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.2.6	EN-DC FR2 interruptions during measurements on deactivated E-UTRAN SCC in asynchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.3	SCell activation and deactivation delay					
5.5.3.1	EN-DC FR2 SCell activation and deactivation intra- band in non-DRX	FFS	FFS	FFS	NOTE 1	
5.5.3.2	EN-DC FR2 SCell activation and deactivation of known SCell in non-DRX for 160ms SCell measurement cycle	FFS	FFS	FFS	NOTE 1	
5.5.3.3	EN-DC FR2 SCell activation and deactivation of known Scell in non-DRX for 320ms SCell measurement cycle	FFS	FFS	FFS	NOTE 1	
5.5.3.4	EN-DC FR2-FR1 SCell activation and deactivation of unknown SCell in non-DRX	FFS	FFS	FFS	NOTE 1	
5.5.3.5	EN-DC FR1-FR2 SCell activation and deactivation in non-DRX	FFS	FFS	FFS	NOTE 1	
5.5.4	UE UL carrier RRC reconfiguration delay					
5.5.5	Beam failure detection and link recovery procedures					
5.5.5.1	EN-DC FR2 SSB-based beam failure detection and link recovery in non-DRX	FFS	FFS	FFS	NOTE 1	
5.5.5.2	EN-DC FR2 SSB-based beam failure detection and link recovery in DRX	FFS	FFS	FFS	NOTE 1	
5.5.5.3	EN-DC FR2 CSI-RS-based beam failure detection and link recovery in non-DRX	FFS	FFS	FFS	NOTE 1	
5.5.5.4	EN-DC FR2 CSI-RS-based beam failure detection and link recovery in DRX	FFS	FFS	FFS	NOTE 1	
5.5.6	Active BWP switch delay					
5.5.6.1	DCI-based and timer-based active BWP switch					
5.5.6.1.1	EN-DC FR2 DCI-based DL active BWP switch in non- DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.6.1.2	EN-DC FR2 DCI-based DL active BWP switch with SCell in non-DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.5.6.2	RRC-based active BWP switch					
5.5.6.2.1	EN-DC FR2 RRC-based DL active BWP switch in non-DRX in synchronous EN-DC	FFS	FFS	FFS	NOTE 1	
5.6	Measurement procedures					
5.6.1	Intra-frequency measurements					
5.6.1.1	EN-DC FR2 event-triggered reporting without gap in non-DRX	FFS	FFS	FFS	NOTE 1	
5.6.1.2	EN-DC FR2 event-triggered reporting without gap in DRX	FFS	FFS	FFS	NOTE 1	
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5.6.1.3	EN-DC FR2 event-triggered reporting with gap in non- DRX	FFS	FFS	FFS	NOTE 1	
5.6.1.4	EN-DC FR2 event-triggered reporting with gap in DRX	FFS	FFS	FFS	NOTE 1	
5.6.2	Inter-frequency measurements					
5.6.2.1	EN-DC FR2-FR2 event-triggered reporting in non-DRX	Rel-15	RE2_C001	UE supporting EN-DC FR2	NOTE 1	
5.6.2.2	EN-DC FR2-FR2 event-triggered reporting in DRX	Rel-15	RE2_C001	UE supporting EN-DC FR2	NOTE 1	
5.6.2.3	EN-DC FR2-FR2 event-triggered reporting in non-DRX with SSB time index detection	Rel-15	RE2_C001	UE supporting EN-DC FR2	NOTE 1	
5.6.2.4	EN-DC FR2-FR2 event-triggered reporting in DRX with SSB time index detection	Rel-15	RE2_C001	UE supporting EN-DC FR2	NOTE 1	
5.6.2.7	EN-DC FR1-FR2 event-triggered reporting in non-DRX with SSB time index detection	Rel-15	RE2_C002	UE supporting EN-DC FR1 and FR2	NOTE 1	
5.6.2.8	EN-DC FR1-FR2 event-triggered reporting in DRX with SSB time index detection	Rel-15	RE2_C002	UE supporting EN-DC FR1 and FR2	NOTE 1	
5.7	Measurement performance requirements					
5.7.1	SS-RSRP					
5.5.7.1	EN-DC FR2 addition and release delay of known PSCell	FFS	FFS	FFS	NOTE 1	
5.7.1.1	EN-DC FR2 SS-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.1.2	EN-DC FR2-FR2 SS-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.1.3	Inter-frequency measurements between FR1 and FR2					
5.7.1.3.1	EN-DC FR1-FR2 SS-RSRP absolute measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.1.3.2	EN-DC FR1-FR2 SS-RSRP relative measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.2	SS-RSRQ					
5.7.2.1	EN-DC FR2 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.2.2	EN-DC FR2-FR2 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.3	SS-SINR					
5.7.3.1	EN-DC FR2 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.3.2	EN-DC FR2-FR2 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.4	L1-RSRP for beam reporting					
5.7.4.1	EN-DC FR2 SSB-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
5.7.4.2	EN-DC FR2 CSI-RS-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
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NOTE 1: The test case is incomplete.

NOTE 2: Void.

NOTE 3: For conformance testing involving FR2 test cases, the UE under test shall disable UL Tx diversity schemes.

NOTE 4: Void.

Table 4.2-2a: Applicability of RRM EN-DC FR2 conformance test cases Conditions

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	RE2_C001	IF (A.4.1-4/4 AND OR A.4.1-4/5) A.4.1-3/2 THEN R ELSE N/A
	RE2_C002	IF A.4.1-4/5 AND A.4.1-3/2 THEN R ELSE N/A
Ī	Note 1: The IC	CS proforma are defined in TS 38.508-2 [8].

Table 4.2-3: Applicability of RRM NR SA FR1 conformance test cases, ref. TS 38.533 [5]

6.1.1 NF 6.1.1.1 NF 6.1.1.2 NF	RC_IDLE state mobility R cell re-selection R SA FR1 cell re-selection		Condition	Comment	1	l
6.1.1 NF 6.1.1.1 NF 6.1.1.2 NF	R cell re-selection					
6.1.1.1 NF 6.1.1.2 NF						
6.1.1.2 NF	D CA ED1 cell re-collection					
			RS1_C001	UE supporting 5GS NR SA FR1		
6 1 2 NE	R SA FR1-FR1 cell re-selection	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	
0.1.2	R – E-UTRA cell re-selection					
pri pri	R SA FR1 – E-UTRA cell re-selection to higher iority E-UTRA	Rel-15	RS1_C003	UE supporting 5GS NR SA FR1 and E-UTRA	NOTE 1	
6.1.2.2 E-	R SA FR1 – E-UTRA cell re-selection to lower priority -UTRA	Rel-15	RS1_C003	UE supporting 5GS NR SA FR1 and E-UTRA	NOTE 1	
6.2 RF	RC_INACTIVE state mobility					
6.3 RF	RC_CONNECTED state mobility					
	andover					
6.3.1.1 NF	R SA FR1 handover with known target cell		FFS	FFS	NOTE 1	
6.3.1.2 NF	R SA FR1 handover with unknown target cell		FFS	FFS	NOTE 1	
6.3.1.3 NF	R SA FR1-FR1 handover with unknown target cell	FFS	FFS	FFS	NOTE 1	
6.3.1.4 NF	R SA FR1 – E-UTRA handover with known target cell	Rel-15	RS1_C003	UE supporting 5GS NR SA FR1 and E-UTRA	NOTE 1	
ce	R SA FR1 – E-UTRA handover with unknown target	Rel-15	RS1_C003	UE supporting 5GS NR SA FR1 and E-UTRA	NOTE 1	
	RC connection mobility control					
6.3.2.1 RF	RC re-establishment					
6.3.2.1.1 NF	R SA FR1 RRC re-establishment	FFS	FFS	FFS	NOTE 1	
6.3.2.1.2 NF	R SA FR1 - FR1 RRC re-establishment	FFS	FFS	FFS	NOTE 1	
6.3.2.1.3 se	R SA FR1 - FR1 RRC re-establishment without erving cell timing	FFS	FFS	FFS	NOTE 1	
	andom access					
	ontention based random access test in FR1 for NR andalone	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.3.2.2.2 NF	on-Contention based random access test in FR1 for R standalone	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
	RC connection release with redirection					
	R SA FR1 RRC connection release with redirection	FFS	FFS	FFS	NOTE 1	
163737	R SA FR1 – E-UTRA RRC connection release with direction	FFS	FFS	FFS	NOTE 1	
6.4 Tii	ming					
6.4.1 UE	E transmit timing					
	R SA FR1 transmit timing accuracy	FFS	FFS	FFS	NOTE 1	
	E timer accuracy					
	ming advance					
	R SA FR1 timing advance adjustment accuracy	FFS	FFS	FFS	NOTE 1	
	ignalling characteristics					
	adio Link Monitoring					

Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
6.5.1.1	NR SA FR1 radio link monitoring out-of-sync test for PCell configured with SSB-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.2	NR SA FR1 radio link monitoring in-sync test for PCell configured with SSB-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.3	NR SA FR1 radio link monitoring out-of-sync test for PCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.4	NR SA FR1 radio link monitoring in-sync test for PCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.5	NR SA FR1 radio link monitoring out-of-sync test for PSCell configured with CSI-RS-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.6	NR SA FR1 radio link monitoring in-sync test for PSCell configured with CSI-RS-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.7	NR SA FR1 radio link monitoring out-of-sync test for PSCell configured with CSI-RS-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.1.8	NR SA FR1 radio link monitoring in-sync test for PSCell configured with CSI-RS-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
6.5.2	Interruption					
6.5.2.1	NR SA FR1 interruptions during measurements on deactivated NR SCC	FFS	FFS	FFS	NOTE 1	
6.5.3	Scell activation and deactivation delay					
6.5.3.1	NR SA FR1 SCell activation and deactivation of known SCell in non-DRX for 160ms SCell measurement cycle	FFS	FFS	FFS	NOTE 1	
6.5.3.2	NR SA FR1 SCell activation and deactivation of known SCell in non-DRX for 320ms SCell measurement cycle	FFS	FFS	FFS	NOTE 1	
6.5.3.3	NR SA FR1 SCell activation and deactivation of unknown SCell in non-DRX	FFS	FFS	FFS	NOTE 1	
6.5.4	UE UL carrier RRC reconfiguration delay					
6.5.4.1	NR SA FR1 UE UL carrier RRC reconfiguration delay	FFS	FFS	FFS	NOTE 1	
6.5.5	Link recovery procedures					
6.5.5.1	NR SA FR1 SSB-based beam failure detection and link recovery in non-DRX	FFS	FFS	FFS	NOTE 1	
6.5.5.2	NR SA FR1 SSB-based beam failure detection and link recovery in DRX	FFS	FFS	FFS	NOTE 1	
6.5.5.3	NR SA FR1 CSI-RS-based beam failure detection and link recovery in non-DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	
6.5.5.4	NR SA FR1 CSI-RS-based beam failure detection and link recovery in DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	

Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
5.5.6	Active BWP switch delay					
5.5.6.1	DCI-based and timer-based active BWP switch					
6.5.6.1.1	NR SA FR1 DCI-based DL active BWP switch in non-DRX	FFS	FFS	FFS	NOTE 1	
6.5.6.1.2	SA FR1 DCI-based DL active BWP switch in non-DRX	FFS	FFS	FFS	NOTE 1	
6.5.6.2	RRC-based active BWP switch					
5.5.6.2.1	NR SA FR1 RRC-based DL active BWP switch in non- DRX	FFS	FFS	FFS	NOTE 1	
6.6	Measurement procedures					
5.6.1	Intra-frequency measurements					
5.6.1.1	NR SA FR1 event-triggered reporting without gap in non-DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.1.2	NR SA FR1 event-triggered reporting without gap in DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.1.3	NR SA FR1 event-triggered reporting with gap in non- DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.1.4	NR SA FR1 event-triggered reporting with gap in DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.1.5	NR SA FR1 event-triggered reporting without gap in non-DRX with SSB index reading	Rel-15	RS1_C002	UE supporting 5GS NR FDD SA FR1		
6.6.1.6	NR SA FR1 event-triggered reporting with gap in non- DRX with SSB index reading	Rel-15	RS1_C002	UE supporting 5GS NR FDD SA FR1		
6.6.2	Inter-frequency measurements					
3.6.2.1	NR SA FR1-FR1 event-triggered reporting in non-DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.2.2	NR SA FR1-FR1 event-triggered reporting in DRX	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.2.5	NR SA FR1-FR1 event-triggered reporting in non-DRX with SSB time index detection		RS1_C001	UE supporting 5GS NR SA FR1		
6.6.2.6	NR SA FR1-FR1 event-triggered reporting in DRX with SSB time index detection	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1		
6.6.3	Inter-RAT measurements					
5.6.3.1	NR SA FR1 – E-UTRAN event-triggered reporting in non-DR	Rel-15	RS1_C003	UE supporting 5GS NR SA FR1 and E-UTRAN	NOTE 1	
5.6.3.2	NR SA FR1 – E-UTRAN event-triggered reporting in DRX	Rel-15	RS1_C003	UE supporting 5GS NR SA FR1 and E-UTRAN	NOTE 1	
5.7	Measurement performance requirements					
5.7.1	SS-RSRP					
5.7.1.1	Intra-frequency measurements					
5.7.1.1.1	NR SA FR1 SS-RSRP absolute measurement accuracy	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	
5.7.1.1.2	NR SA FR1 SS-RSRP relative measurement accuracy	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	
5.7.1.2	Inter-frequency measurements		_			
6.7.1.2.1	NR SA FR1-FR1 SS-RSRP absolute measurement accuracy	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	

Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
6.7.1.2.2	NR SA FR1-FR1 SS-RSRP relative measurement accuracy	Rel-15	RS1_C001	UE supporting 5GS NR SA FR1	NOTE 1	
6.7.2	SS-RSRQ					
6.7.2.1	NR SA FR1 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.2.2	NR SA FR1-FR1 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.3	SS-SINR					
6.7.3.1	NR SA FR1 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.3.2	NR SA FR1-FR1 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.4	L1-RSRP for beam reporting					
6.7.4.1	NR SA FR1 SSB-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.4.2	NR SA FR1 CSI-RS-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.5.1.1	NR SA FR1 – E-UTRAN RSRP absolute measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.5.1.2	NR SA FR1– E-UTRAN RSRP relative measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.6.1.1	NR SA FR1 – E-UTRAN RSRQ absolute measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.6.1.2	NR SA FR1– E-UTRAN RSRQ relative measurement accuracy	FFS	FFS	FFS	NOTE 1	
6.7.7.1	NR SA FR1 – E-UTRAN RS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	

NOTE 1: The test case is incomplete. NOTE 2: Void.

NOTE 2: Void. NOTE 3: Void. NOTE 4: Void.

Table 4.2-3a: Applicability of RRM NR SA FR1 conformance test cases Conditions

RS1_C001 IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-3/1 THEN R ELSE N/A
RS1_C002 IF A.4.1-1/1 AND A.4.1-3/1 THEN R ELSE N/A
RS1_C003 IF ((A.4.1-1/1 AND [10]A.4.1-1/2) OR (A.4.1-1/2 AND [10]A.4.1-1/2) OR (A.4.1-1/1 AND [10]A.4.1-1/2) OR
(A.4.1-1/2 AND [10]A.4.1-1/2)) AND A.4.1-3/1 THEN R ELSE N/A
Note 1: The ICS proforma are defined in TS 38.508-2 [8].

Table 4.2-4: Applicability of RRM NR SA FR2 conformance test cases, ref. TS 38.533 [5]

Clause	TC Title	Release	Applicability		Additional Information (NOTE 3)	Branch
			Condition	Comment		
7.1	RRC_IDLE state mobility					
7.1.1	NR cell re-selection					
7.1.1.1	NR SA FR2 cell re-selection	FFS	FFS	FFS	NOTE 1	
7.1.1.2	NR SA FR2-FR2 cell re-selection	FFS	FFS	FFS	NOTE 1	
7.2	RRC_INACTIVE state mobility					
7.3	RRC_CONNECTED state mobility					
7.3.1	Handover					
7.3.1.1	NR SA FR1-FR2 handover with unknown target cell	FFS	FFS	FFS	NOTE 1	
7.3.1.2	NR SA FR2 handover with unknown target cell	FFS	FFS	FFS	NOTE 1	
7.3.1.3	NR SA FR2-FR2 handover with unknown target cell	FFS	FFS	FFS	NOTE 1	
7.3.2	RRC connection mobility control					
7.3.2.1	RRC re-establishment					
7.3.2.1.1	Intra-frequency RRC Re-establishment in FR2	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.3.2.1.2	Inter-frequency RRC Re-establishment in FR2	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.3.2.1.3	NR SA FR2 - FR2 RRC re-establishment without serving cell timing	FFS	FFS	FFS	NOTE 1	
7.3.2.2	Random access					
7.3.2.2.1	NR SA FR2 contention based random access	FFS	FFS	FFS	NOTE 1	
7.3.2.2.2	NR SA FR2 non-contention based random access	FFS	FFS	FFS	NOTE 1	
7.3.2.3	RRC connection release with redirection					
7.3.2.3.1	NR SA FR2 RRC connection release with redirection	FFS	FFS	FFS	NOTE 1	
7.4	Timing					
7.4.1	UE transmit timing					
7.4.1.1	NR SA FR2 transmit timing accuracy	FFS	FFS	FFS	NOTE 1	
7.4.2	UE timer accuracy					
7.4.3	Timing advance					
7.4.3.1	NR SA FR2 timing advanced adjustment accuracy	FFS	FFS	FFS	NOTE 1	
7.5	Signalling characteristics					
7.5.1	Radio Link Monitoring					
7.5.1.1	NR SA FR2 radio link monitoring out-of-sync test for PCell configured with SSB-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
7.5.1.2	NR SA FR2 radio link monitoring in-sync test for PCell configured with SSB-based RLM RS in non-DRX mode	FFS	FFS	FFS	NOTE 1	
7.5.1.3	NR SA FR2 radio link monitoring out-of-sync test for PCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
7.5.1.4	NR SA FR2 radio link monitoring in-sync test for PCell configured with SSB-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	

Clause	TC Title	Release		Applicability	Additional Information (NOTE 3)	Branch
			Condition	Comment		
7.5.1.5	NR SA FR2 radio link monitoring out-of-sync test for PCell configured with CSI-RS-based RLM RS in non-DRX mode		FFS	FFS	NOTE 1	
7.5.1.6	NR SA FR2 radio link monitoring in-sync test for PCell configured with CSI-RS-based RLM RS in non-DRX mode		FFS	FFS	NOTE 1	
7.5.1.7	NR SA FR2 radio link monitoring out-of-sync test for PCell configured with CSI-RS-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
7.5.1.8	NR SA FR2 radio link monitoring in-sync test for PCell configured with CSI-RS-based RLM RS in DRX mode	FFS	FFS	FFS	NOTE 1	
7.5.2	Interruption					
7.5.2.1	NR SA FR2 interruptions during measurements on deactivated NR SCC	FFS	FFS	FFS	NOTE 1	
7.5.3	Scell activation and deactivation delay					
7.5.3.1	NR SA FR2-FR2 intra-band SCell activation and deactivation delay		FFS	FFS	NOTE 1	
7.5.3.2	NR SA FR2-FR2 inter-band SCell activation and deactivation delay	FFS	FFS	FFS	NOTE 1	
7.5.4	UE UL carrier RRC reconfiguration delay					
7.5.5	Beam failure detection and link recovery procedures					
7.5.5.1	NR SA FR2 SSB-based beam failure detection and link recovery in non-DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.5.5.2	NR SA FR2 SSB-based beam failure detection and link recovery in DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.5.5.3	NR SA FR2 CSI-RS-based beam failure detection and link recovery in non-DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.5.5.4	NR SA FR2 CSI-RS-based beam failure detection and link recovery in DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.5.6	Active BWP switch delay					
7.5.6.1	Intra-frequency measurements					
7.5.6.1.1	NR SA FR2 DCI-based DL active BWP switch in non-DRX		FFS	FFS	NOTE 1	
7.5.6.1.2	NR SA FR1-FR2 DCI-based DL active BWP switch in non-DRX		FFS FFS	FFS	NOTE 1	
7.5.6.1.3	FFS	FS FFS		FFS	NOTE 1	
7.5.6.2	RRC-based active BWP switch					
7.5.6.2.1	NR SA FR2 RRC-based DL active BWP switch in non-DRX	FFS	FFS	FFS	NOTE 1	
7.6	Measurement procedures					

Clause	TC Title	Release		Applicability	Additional Information (NOTE 3)	Branch
			Condition	Comment		
7.6.1	Intra-frequency measurements					
7.6.1.1	NR SA FR2 event-triggered reporting without gap in non-DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.1.2	NR SA FR2 event-triggered reporting without gap in DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.1.3	NR SA FR2 event-triggered reporting with gap in non-DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.1.4	NR SA FR2 event-triggered reporting with gap in DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.2	Inter-frequency measurements					
7.6.2.1	NR SA FR2-FR2 event-triggered reporting in non- DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.2.2	NR SA FR2-FR2 event-triggered reporting in DRX	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2 TDD	NOTE 1	
7.6.2.3	NR SA FR2-FR2 event-triggered reporting in non- DRX with SSB time index detection	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2 TDD	NOTE 1	
7.6.2.4	NR SA FR2-FR2 event-triggered reporting in DRX with SSB time index detection	Rel-15	RS2_C001	UE supporting 5GS NR SA FR2 TDD	NOTE 1	
7.6.2.5	NR SA FR1-FR2 event-triggered reporting in non- DRX	Rel-15	RS2_C002	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.2.6	NR SA FR1-FR2 event-triggered reporting in DRX	Rel-15	RS2_C002	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.2.7	NR SA FR1-FR2 event-triggered reporting in non- DRX with SSB time index detection	Rel-15	RS2_C002	UE supporting 5GS NR SA FR2	NOTE 1	
7.6.2.8	NR SA FR1-FR2 event-triggered reporting in DRX with SSB time index detection	Rel-15	RS2_C002	UE supporting 5GS NR SA FR2	NOTE 1	
7.7	Measurement performance requirements					
7.7.1	SS-RSRP					
7.7.1.1	NR SA FR2 SS-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.1.2	NR SA FR2-FR2 SS-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.1.3	Inter-frequency measurements between FR1 and FR2					
7.7.1.3.1	NR SA FR1-FR2 SS-RSRP absolute measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.1.3.2	NR SA FR1-FR2 SS-RSRP relative measurement accuracy		FFS	FFS	NOTE 1	
7.7.2	SS-RSRQ					
7.7.2.1	NR SA FR2 SS-RSRQ measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.2.2	NR SA FR2-FR2 SS-RSRQ measurement accuracy FFS		FFS	FFS	NOTE 1	
7.7.3	SS-SINR					
7.7.3.1	NR SA FR2 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.3.2	NR SA FR2-FR2 SS-SINR measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.4	L1-RSRP for beam reporting					

Clause	TC Title	Release	Applicability		Additional Information (NOTE 3)	Branch
			Condition	Comment		
7.7.4.1	NR SA FR2 SSB-based L1-RSRP measurement accuracy	FFS	FFS	FFS	NOTE 1	
7.7.4.2	NR SA FR2 CSI-RS-based L1-RSRP measurement accuracy		FFS	FFS	NOTE 1	

NOTE 1: The test case is incomplete.

NOTE 2: Void.

NOTE 3: For conformance testing involving FR2 test cases, the UE under test shall disable UL Tx diversity schemes.

NOTE 4: Void.

Table 4.2-4a: Applicability of RRM NR SA FR2 conformance test cases Conditions

RS2_C001	IF A.4.1-1/2 AND A.4.1-3/1 THEN R ELSE N/A
RS2_C002	IF A.4.1-3/1 AND A.4.1-1/2 THEN R ELSE N/A
NOTE 1: The	e ICS proforma are defined in TS 38.508-2 [8] unless otherwise state.

Table 4.2-5: Applicability of E-UTRA – NR Inter-RAT conformance test cases, ref. TS 38.533 [5]

Clause	TC Title	Release		Applicability	Additional Information	Branch
			Condition	Comment		
8.2	RRC_IDLE state mobility					
8.2.1	Inter-RAT NR cell re-selection					
8.2.1.1	E-UTRA – NR FR1 cell re-selection to higher priority NR target cell	FFS	FFS	FFS	NOTE 1	
8.3	RRC_CONNECTED state mobility					
8.4	Measurement procedures					
8.4.1	SFTD measurement delay					
8.4.1.1	E-UTRA – NR FR1 SFTD measurement delay in non-DRX	FFS	FFS	FFS	NOTE 1	
8.4.1.2	E-UTRA – NR FR1 SFTD measurement delay in DRX	FFS	FFS	FFS	NOTE 1	
8.4.2	Inter-RAT measurements					
8.4.2.1	E-UTRA – NR FR1 event-triggered reporting without SSB time index detection in non-DRX	FFS	FFS	FFS	NOTE 1	
8.4.2.2	E-UTRA – NR FR1 event-triggered reporting without SSB time index detection in DRX	FFS	FFS	FFS	NOTE 1	
8.4.2.3	E-UTRA – NR FR1 event-triggered reporting with SSB time index detection in non-DRX	FFS	FFS	FFS	NOTE 1	
8.4.2.4	E-UTRA – NR FR1 event-triggered reporting with SSB time index detection in DRX	FFS	FFS	FFS	NOTE 1	
8.5	Measurement performance					

NOTE 1: The test case is incomplete. NOTE 2: Void.

NOTE 3: Void.

NOTE 4: Void.

Annex A (informative): FFS

Annex B (informative): Change history

	Change history							
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version	
2017-08	RAN5#76	R5-173911	-	-	-	Draft skeleton	0.0.1	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180107	-	-	-	Updated after RAN5#1-5G-NR Adhoc: - Foreword, scope, references, definitions, symbols and abbreviations, recommended test case applicability updated - Sub-clause 4.1.1, 4.1.2, 4.1.3 and 4.1.4 added - Change history added	0.1.0	
2018-03	RAN5 #78	R5-181687	-	-	-	TP for Clause 4.1.1 Range 1 standalone conformance test cases	0.2.0	
2018-03	RAN5 #78	R5-181688	-	-	-	TP for Clause 4.1.2 Range 2 standalone conformance test cases	0.2.0	
2018-03	RAN5 #78	R5-181689	-	-	-	TP for Clause 4.1.3 NR interworking between NR range1 and NR range2 and between NR and LTE conformance test cases	0.2.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182013	-	-	-	TP for Clause 3 Definitions, symbols and abbreviations	0.3.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182047	-	-	-	TP for Clause 4 Recommended test case applicability	0.3.0	
2018-08	RAN5#80	R5-185209	-	1-	-	TP for Clause 4.1.1 of TS 38.522		
2018-08	RAN5#80	R5-185210	-	-	-	TP for Clause 4.1.2 of TS 38.522	1.0.1	
2018-08	RAN5#80	R5-185211	-	-	-	TP for Clause 4.1.3 of TS 38.522	1.0.1	
2018-09	RAN#81	-	-	-	-	raised to v15.0.0 with editorial changes only	15.0.0	
2018-12	RAN#82	R5-186501	0013	-	F	Applicability rules implementation in 38.522	15.1.0	
2018-12	RAN#82	R5-188223	0015	-	F	Applicability for RRM NR tests	15.1.0	
2018-12	RAN#82	R5-187566	0016	-	F	Update note in section 4.1 to include CBW and SCS in RF test applicability	15.1.0	
2018-12	RAN#82	R5-187849	0014	1	F	Adding applicability for new 38.521-1 CA TCs	15.1.0	
2018-12	RAN#82	R5-187881	0008	1	F	Update Clause 1 Scope of TS 38.522	15.1.0	
2018-12	RAN#82	R5-187884	0011	1	F	TP for Clause 4.1.2 of TS 38.522	15.1.0	
2018-12	RAN#82	R5-187922	0017	-	F	Removing FR2 test case 7.4 from TS 38.522 due to testability issue	15.1.0	
2019-01	RAN#82	R5-187882	0009	1	F	Update Clause 3 of TS 38.522	15.1.1	
2019-01	RAN#82	R5-187883	0010	1	F	TP for Clause 4.1.1 of TS 38.522	15.1.1	
2019-01	RAN#82	R5-187885	0012	1	F	TP for Clause 4.1.3 of TS 38.522	15.1.1	
2019-03	RAN#83	R5-191722	0021	-	F	addition of applicability for BFD and measurement	15.2.0	
2019-03	RAN#83	R5-192507	0020	1	F	TP for TS 38.522	15.2.0	
2019-03	RAN#83	R5-192508	0022	1	F	Addition of RRM Test Cases Applicability	15.2.0	
2019-06	RAN#84	R5-195444	0027	1	F	TP for TS 38.522	15.3.0	

History

	Document history						
V15.0.0	October 2018	Publication					
V15.1.1	April 2019	Publication					
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V15.3.0 July 2019		Publication					