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Universal Mobile Telecommunications System (UMTS);
LTE;
Universal Terrestrial Radio Access (UTRA)
and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC);
User Equipment (UE) conformance specification
for UE positioning;
Part 3: Implementation Conformance Statement (ICS)
(3GPP TS 37.571-3 version 15.5.0 Release 15)

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Contents

Foreword

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Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The present document is part 3 of a multi-parts TS:

3GPP TS 37.571-1: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification.

3GPP TS 37.571-2: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance.

3GPP TS 37.571-3: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS).

3GPP TS 37.571-4: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites.

3GPP TS 37.571-5: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data.

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for UTRAN, E-UTRAN and NR User Equipment (UE) supporting UE positioning, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8].

The present document also specifies a recommended applicability statement for the test cases included in 3GPP TS 37.571-1 [5] and 3GPP TS 37.571-2 [6]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 34.109 [10] for UTRA, 3GPP TS 36.509 [2] for E-UTRA and 3GPP TS 38.509 [14] for NR. The common test environments are included in 3GPP TS 34.108 [9] for UTRA, in 3GPP TS 36.508 [3] for E-UTRA and in 3GPP TS 38.508-1 [15] for NR.

The present document is valid for UE supporting UE positioning implemented according to 3GPP releases starting from Release 99 up to the Release indicated on the cover page of the present document.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 36.509: "Special conformance testing functions for User Equipment".

[3] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common Test Environments for User Equipment (UE) Conformance Testing".

[4] 3GPP TS 36.355: "Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)".

[5] 3GPP TS 37. 571-1: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification".

[6] 3GPP TS 37. 571-2: " Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance".

[7] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[8] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[9] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".

[10] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".

[11] 3GPP TS 36.523-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[12] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[13] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".

[14] 3GPP TS 38.509: "Special conformance testing functions for User Equipment (UE)".

[15] 3GPP TS 38.508-1: "User Equipment (UE) conformance specification; Part 1: Common test environment".

[16] 3GPP TS 38.508-2: “5GS; UE conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma”.

3 Definitions, symbols and abbreviations

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

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

NOTE: Some terms and abbreviations defined in [7] and [8] are explicitly included below with small modification to reflect the terminology used in 3GPP.

3.1 Definitions

Implementation Conformance Statement (ICS): A 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: A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

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

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

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

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

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

3.2 Symbols

No specific symbols have been identified so far.

3.3 Abbreviations

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

A-BDS	Assisted-BeiDou Navigation Satellite System
A-Galileo	Assisted- Galileo
A-GANSS	Assisted- Galileo and Additional Navigation Satellite Systems
A-GLONASS	Assisted- GLObal'naya NAvigatsionnaya Sputnikovaya Sistema (English: Global Navigation Satellite System)
A-GNSS	Assisted - Global Navigation Satellite System

A-GPS	Assisted - Global Positioning System
AP	Access Point
A-QZSS	Assisted- Quasi-Zenith Satellite System
A-SBAS	Assisted- Space Based Augmentation System
BDS	BeiDou Navigation Satellite System
BLE	Bluetooth Low Energy
C/A	Coarse/Acquisition
DUT	Device Under Test
E-CID	Enhanced Cell-ID (positioning method)
eFDD	Enhanced Frequency Division Duplex
ENB	Evolved Node B
EN-DC	E-UTRA-NR Dual Connectivity
eTDD	Enhanced Time Division Duplex
E-UTRA	Evolved UMTS Terrestrial Radio Access
E-UTRAN	Evolved UMTS Terrestrial Radio Access Network
FDD	Frequency Division Duplex
FFS	For Further Study
GANSS	Galileo and Additional Navigation Satellite Systems
GLONASS	GLObal'naya NAvigatsionnaya Sputnikovaya Sistema (English: Global Navigation Satellite System)
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
LPP	LTE Positioning Protocol
MBS	Metropolitan Beacon System
MO-LR	Mobile Originated Location Request
MT-LR	Mobile Terminated Location Request
NE-DC	NR-E-UTRA Dual Connectivity
NGEN-DC	NG-RAN E-UTRA-NR Dual Connectivity
NG-RAN	NextGen Radio Access Network
NR	New Radio
NR-DC	NR-NR Dual Connectivity
OTDOA	Observed Time Difference Of Arrival
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
QZSS	Quasi-Zenith Satellite System
RRC	Radio Resource Control
RSTD	Reference Signal Time Difference
SBAS	Space Based Augmentation System
SCS	System Conformance Statement
TC	Test Case
TDD	Time Division Duplex
UE	User Equipment
UEUT	User Equipment Under Test
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network
WLAN	Wireless Local Area Network

4 Recommended Test Case Applicability

The applicability of each individual test is identified in Table 4-1 (UTRA), 4 -3 and 4-3a (E-UTRA) and 4-11 (NR) for test cases in TS 37.571-1 [5] and in Table 4-5 (UTRA), 4-7 (E-UTRA) and 4-9 (NR) for test cases in TS 37.571-2 [6]. This is just a recommendation based on the purpose for which the test case was written.

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

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

The columns in Tables 4-1, 4-3, 4-3a, 4-5, 4-7, 4-9 and 4-11 have the following meaning:

Clause

The clause column indicates the clause number in TS 37.571-1 [5] and TS 37.571-2 [6] 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 37.571-1 [5] and TS 37.571-2 [6] that contains the test body.

Applicability - Condition

The following notations are used for the applicability column:

R	recommended - the test case is recommended
O	optional - the test case is optional
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

NOTE: The conditions are defined in Table 4-2, 4-4, 4-6, 4-8, 4-10 and 4-12.

Applicability - Comments

This column contains a verbal description of the condition.

Additional Information - Specific ICS

This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

NOTE: ICS items specified in 3GPP TS 36.523-2 [11] can be referred, to avoid redundant definitions.

Additional Information - Specific IXIT

This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC.

The columns in Tables 4-1 and 4-5 have the following meaning:

Release

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

The columns in Tables 4-3, 4-3a, 4-7, 4-9, and 4-11 have the following meaning:

Release of LPP

The Release of LPP column indicates the earliest release of the positioning functionality in LPP (3GPP TS 36.355 [4]) from which the test case is applicable. Note that the release of the positioning functionality does not have to align with that of the RAT bearer.

Release RAT

The Release RAT column indicates the earliest release of the RAT bearer over which the test should be conducted. Note that the release of the positioning functionality does not have to align with that of the RAT bearer.

NOTE: To meet the validation requirements from certification bodies then there is a need to uniquely reference the 2Rx (UE supports 2 Rx antenna ports in the tested band) and 4Rx (UE supports 4 Rx antenna ports in the tested band) branch of common 2Rx and 4Rx OTDOA and ECID test cases in table 4-3a. The 2Rx and 4Rx branches of common 2Rx and 4Rx test cases can be referenced by amending a "2Rx" or "4Rx" suffix to the test case clause number. For example for test case 8.1.1 the 2Rx and 4Rx branches can be identified by "8.1.1_2Rx" and "8.1.1_4Rx".

Table 4-1: Applicability of tests and additional information for testing for test cases in TS 37.571-1 [5] for UTRA

Clause	Title	Release	Applicability	Comments
5.2.1	Sensitivity Coarse Time Assistance	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only
5.2.2	Sensitivity Fine Time Assistance	Rel-6	C02ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only and Fine Time Assistance
5.3	Nominal Accuracy	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only
5.4	Dynamic Range	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only
5.5	Multi-path Performance	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only
5.6	Moving Scenario and Periodic Update Performance	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only
6.2.1-1	Sensitivity Coarse Time Assistance: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only
6.2.1-2	Sensitivity Coarse Time Assistance: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only
6.2.1-3	Sensitivity Coarse Time Assistance: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only
6.2.1-4	Sensitivity Coarse Time Assistance: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only
6.2.1-8	Sensitivity Coarse Time Assistance: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo only or UE-Assisted A-GPS and A-GANSS with Galileo only
6.2.1-9	Sensitivity Coarse Time Assistance: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only
6.2.1-10	Sensitivity Coarse Time Assistance: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only
6.2.2-1	Sensitivity Fine Time Assistance: Sub-Test 1	Rel-10	C04-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only and Fine Time Assistance
6.2.2-2	Sensitivity Fine Time Assistance: Sub-Test 2	Rel-12	C04-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only and Fine Time Assistance
6.2.2-3	Sensitivity Fine Time Assistance: Sub-Test 3	Rel-10	C04-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only and Fine Time Assistance
6.2.2-4	Sensitivity Fine Time Assistance: Sub-Test 4	Rel-10	C04-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only and Fine Time Assistance
6.2.2-8	Sensitivity Fine Time Assistance: Sub-Test 8	Rel-12	C04-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo only or UE-Assisted A-GPS and A-GANSS with Galileo only and Fine Time Assistance
6.2.2-9	Sensitivity Fine Time Assistance: Sub-Test 9	Rel-12	C04-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only and Fine Time Assistance
6.2.2-10	Sensitivity Fine Time Assistance: Sub-Test 10	Rel-12	C04-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only and Fine Time Assistance

Clause	Title	Release	Applicability	Comments
6.3-1	Nominal Accuracy: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only
6.3-2	Nominal Accuracy: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only
6.3-3	Nominal Accuracy: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only
6.3-4	Nominal Accuracy: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only
6.3-8	Nominal Accuracy: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo only or UE-Assisted A-GPS and A-GANSS with Galileo only
6.3-9	Nominal Accuracy: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only
6.3-10	Nominal Accuracy: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only
6.4-1	Dynamic Range: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only
6.4-2	Dynamic Range: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only
6.4-3	Dynamic Range: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only
6.4-4	Dynamic Range: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only
6.4-8	Dynamic Range: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo only or UE-Assisted A-GPS and A-GANSS with Galileo only
6.4-9	Dynamic Range: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only
6.4-10	Dynamic Range: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only
6.5-1	Multi-path Performance: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only
6.5-2	Multi- path Performance: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only
6.5-3	Multi- path Performance: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only
6.5-4	Multi- path Performance: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only
6.5-8	Multi- path Performance: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo only or UE-Assisted A-GPS and A-GANSS with Galileo only
6.5-9	Multi- path Performance: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only
6.5-10	Multi- path Performance: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only

Clause	Title	Release	Applicability	Comments
6.6-1	Moving Scenario and Periodic Update Performance: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only
6.6-2	Moving Scenario and Periodic Update Performance: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only
6.6-3	Moving Scenario and Periodic Update Performance: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only
6.6-4	Moving Scenario and Periodic Update Performance: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only
6.6-8	Moving Scenario and Periodic Update Performance: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo only or UE-Assisted A-GPS and A-GANSS with Galileo only
6.6-9	Moving Scenario and Periodic Update Performance: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only
6.6-10	Moving Scenario and Periodic Update Performance: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only

Table 4-2: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for UTRA

C01ur IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C02ur IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/12 THEN R ELSE N/A
C03-1ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C03-2ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C03-3ur IF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C03-4ur IF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND NOT (A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C03-8ur IF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND NOT (A.4.3-1/8 OR A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C03-9ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) THEN R ELSE N/A
C03-10urIF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) THEN R ELSE N/A
C04-1ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) AND A.4.3-1/12 THEN R ELSE N/A
C04-2ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) AND A.4.3-1/12 THEN R ELSE N/A
C04-3ur IF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) AND A.4.3-1/12 THEN R ELSE N/A
C04-4ur IF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND NOT (A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/3) AND A.4.3-1/12 THEN R ELSE N/A
C04-8ur IF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND NOT (A.4.3-1/8 OR A.4.3-1/7 OR A.4.3-1/13) AND A.4.3-1/12 THEN R ELSE N/A
C04-9ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) AND A.4.3-1/12 THEN R ELSE N/A
C04-10urIF (A.4.3-1/10 OR A.4.3-1/11) AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) AND A.4.3-1/12 THEN R ELSE N/A

Table 4-3: Applicability of tests and additional information for testing for RAT-independent test cases in TS 37.571-1 [5] for E-UTRA

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7	A-GNSS minimum performance requirements							
7.1.1-1	Sensitivity Coarse Time Assistance: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-2	Sensitivity Coarse Time Assistance: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-3	Sensitivity Coarse Time Assistance: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-4	Sensitivity Coarse Time Assistance: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-5	Sensitivity Coarse Time Assistance: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-8	Sensitivity Coarse Time Assistance: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-9	Sensitivity Coarse Time Assistance: Sub-Test 9	Rel-12	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-10	Sensitivity Coarse Time Assistance: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-11	Sensitivity Coarse Time Assistance: Sub-Test	Rel-12	C32er	All LTE UEs except	pc_eFDD			Rel-9

	11			Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only	pc_eTDD			Rel-9
7.1.1-12	Sensitivity Coarse Time Assistance: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-13	Sensitivity Coarse Time Assistance: Sub-Test 13	Rel-12	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-1	Sensitivity Fine Time Assistance: Sub-Test 1	Rel-9	C06er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-2	Sensitivity Fine Time Assistance: Sub-Test 2	Rel-9	C07er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-3	Sensitivity Fine Time Assistance: Sub-Test 3	Rel-12	C08er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-4	Sensitivity Fine Time Assistance: Sub-Test 4	Rel-9	C09er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-5	Sensitivity Fine Time Assistance: Sub-Test 5	Rel-9	C10er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-8	Sensitivity Fine Time Assistance: Sub-Test 8	Rel-12	C30er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only, and Fine Time Assistance	pc_eTDD			Rel-9
7.1.2-9	Sensitivity Fine Time Assistance: Sub-Test 9	Rel-12	C23er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-10	Sensitivity Fine Time Assistance: Sub-Test 10	Rel-12	C24er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-11	Sensitivity Fine Time Assistance: Sub-Test 11	Rel-12	C33er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-12	Sensitivity Fine Time Assistance: Sub-Test 12	Rel-12	C81er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-13	Sensitivity Fine Time Assistance: Sub-Test 13	Rel-12	C82er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-1	Nominal Accuracy: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-2	Nominal Accuracy: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

7.2-3	Nominal Accuracy: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-4	Nominal Accuracy: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-5	Nominal Accuracy: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-8	Nominal Accuracy: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-9	Nominal Accuracy: Sub-Test 9	Rel-12	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-10	Nominal Accuracy: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-11	Nominal Accuracy: Sub-Test 11	Rel-12	C32er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-12	Nominal Accuracy: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-13	Nominal Accuracy: Sub-Test 13	Rel-12	C80er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only	pc_eTDD			Rel-9
7.3-1	Dynamic Range: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-2	Dynamic Range: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-3	Dynamic Range: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-4	Dynamic Range: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-5	Dynamic Range: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-8	Dynamic Range: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-9	Dynamic Range: Sub-Test 9	Rel-12	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-10	Dynamic Range: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-11	Dynamic Range: Sub-Test 11	Rel-12	C32er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only	pc_eTDD			Rel-9
7.3-12	Dynamic Range: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-13	Dynamic Range: Sub-Test 13	Rel-12	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-1	Multi-path scenario: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-2	Multi-path scenario: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-3	Multi-path scenario: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-4	Multi-path scenario: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-5	Multi-path scenario: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-8	Multi-path scenario: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-9	Multi-path scenario: Sub-Test 9	Rel-12	C19er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only	pc_eTDD			Rel-9
7.4-10	Multi-path scenario: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-11	Multi-path scenario: Sub-Test 11	Rel-12	C32er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-12	Multi-path scenario: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-13	Multi-path scenario: Sub-Test 13	Rel-12	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-1	Moving scenario and periodic update: Sub-Test 1 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-2	Moving scenario and periodic update: Sub-Test 2 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-3	Moving scenario and periodic update: Sub-Test 3 (Rel-9 to Rel-13)	Rel-12, Rel-13	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-4	Moving scenario and periodic update: Sub-Test 4 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-5	Moving scenario and periodic update: Sub-Test	Rel-9,	C05er	All LTE UEs except	pc_eFDD			Rel-9

	5 (Rel-9 to Rel-13)	Rel-10, Rel-11, Rel-12, Rel-13		Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only	pc_eTDD			Rel-9
7.5-8	Moving scenario and periodic update: Sub-Test 8 (Rel-9 to Rel-13)	Rel-12, Rel-13	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-9	Moving scenario and periodic update: Sub-Test 9 (Rel-9 to Rel-13)	Rel-12, Rel-13	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-10	Moving scenario and periodic update: Sub-Test 10 (Rel-9 to Rel-13)	Rel-12, Rel-13	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-11	Moving scenario and periodic update: Sub-Test 11 (Rel-9 to Rel-13)	Rel-12,Rel-13	C32er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-12	Moving scenario and periodic update: Sub-Test 12 (Rel-9 to Rel-13)	Rel-12, Rel 13	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-13	Moving scenario and periodic update: Sub-Test 13 (Rel-9 to Rel-13)	Rel-12, Rel 13	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-1	Moving scenario and periodic update: Sub-Test 1 (Rel-14 onwards)	Rel-14	C34er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-2		Rel-14	C35er		pc_eFDD			Rel-9

	Moving scenario and periodic update: Sub-Test 2 (Rel-14 onwards)			All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS only and periodical reporting	pc_eTDD			Rel-9
7.5A-3	Moving scenario and periodic update: Sub-Test 3 (Rel-14 onwards)	Rel-14	C36er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-4	Moving scenario and periodic update: Sub-Test 4 (Rel-14 onwards)	Rel-14	C37er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-5	Moving scenario and periodic update: Sub-Test 5 (Rel-14 onwards)	Rel-14	C38er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-8	Moving scenario and periodic update: Sub-Test 8 (Rel-14 onwards)	Rel-14	C39er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-9	Moving scenario and periodic update: Sub-Test 9 (Rel-14 onwards)	Rel-14	C40er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A.10	Moving scenario and periodic update: Sub-Test 10 (Rel-14 onwards)	Rel-14	C41er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A.11	Moving scenario and periodic update: Sub-Test 11 (Rel-14 onwards)	Rel-14	C85er	All LTE UEs except Cat M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

7.5A-12	Moving scenario and periodic update: Sub-Test 12 (Rel-14 onwards)	Rel-14	C83er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-13	Moving scenario and periodic update: Sub-Test 13 (Rel-14 onwards)	Rel-14	C84er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS only and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
11	**E-UTRA MBS measurement requirements**							
11.1	MBS Measurement Reporting Delay (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.1A	MBS Measurement Reporting Delay (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.2	MBS Sensitivity Measurement Accuracy (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.2A	MBS Sensitivity Measurement Accuracy (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.3	MBS Nominal Measurement Accuracy (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.3A	MBS Nominal Measurement Accuracy (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.4	MBS Dynamic Range Measurement Accuracy (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.4A	MBS Dynamic Range Measurement Accuracy (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.5	MBS Measurement Accuracy in Multipath (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
11.5A	MBS Measurement Accuracy in Multipath (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			
12	**E-UTRA WLAN and BLE measurement requirements**							
12.1.1	WLAN AP Identification and reporting delay under nominal conditions	Rel-14 (Note 3)	C42er	All LTE UEs supporting UE-Assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			
12.1.2	WLAN AP Identification and reporting delay under dynamic range conditions	Rel-14 (Note 3)	C42er	All LTE UEs supporting UE-Assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			
12.2.1	Bluetooth identification	Rel-14 (Note 3)	C43er	All LTE UEs supporting UE-Assisted Bluetooth	pc_eFDD			Rel-9
					pc_eTDD			

Note 1: Void
Note 2: Void
Note 3: This test case can be optionally tested for Rel-9 UEs supporting LPP Rel-13 features for WLAN and BLE measurements.

Table 4-3a: Applicability of tests and additional information for testing for RAT-dependent test cases in TS 37.571-1 [5] for E-UTRA

Clause	TC Title	Release of LPP	Applicability		Additional Information				
			Condition	Comment	Specific ICS	Specific IXIT	Branch	Number of TC Executions	Release RAT
8	**E-CID measurement requirements**								
8.1.1	FDD UE Rx-Tx time difference case (Rel-9 to Rel-11)	Rel-9	C11er	All FDD UEs supporting E-CID with Rx-Tx time difference	pc_eFDD		2Rx, 4Rx		Rel-9, Rel-10, Rel-11
8.1.1A	FDD UE Rx-Tx time difference case (Rel-12 onwards)	Rel-9	C11er	All FDD UEs supporting E-CID with Rx-Tx time difference	pc_eFDD		2Rx, 4Rx		Rel-12
8.1.1B	FDD UE Rx-Tx time difference case for UE Category 1bis	Rel-9	C77er	Category 1bis FDD UEs supporting E-CID with Rx-Tx time difference	pc_eFDD				Rel-13
8.1.2	TDD UE Rx-Tx time difference case (Rel-9 to Rel-11)	Rel-13	C12er	All TDD UEs supporting E-CID with Rx-Tx time difference	pc_eTDD		2Rx, 4Rx		Rel-9, Rel-10, Rel-11
8.1.2A	TDD UE Rx-Tx time difference case (Rel-12 onwards)	Rel-13	C12er	All TDD UEs supporting E-CID with Rx-Tx time difference	pc_eTDD		2Rx, 4Rx		Rel-12
8.1.2B	FDD UE Rx-Tx time difference case for UE Category 1bis	Rel-13	C78er	Category 1bis TDD UEs supporting E-CID with Rx-Tx time difference	pc_eTDD				Rel-13
8.1.3	E-UTRAN FDD UE Rx–Tx Time Difference under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-9	C25er	All FDD UEs supporting E-CID with Rx-Tx time difference and Feature Group Indictor 115	pc_eFDD				Rel-10
8.1.4	E-UTRAN TDD UE Rx–Tx Time Difference under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-13	C26er	All TDD UEs supporting E-CID with Rx-Tx time difference and Feature Group Indictor 115	pc_eTDD				Rel-10
8.1.5	E-UTRAN FDD UE Rx–Tx time difference under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-9	C21er	All FDD UEs supporting E-CID with Rx-Tx time difference and CRS interference handling and Feature Group Indictor 115	pc_eFDD				Rel-11
8.1.6	E-UTRAN TDD UE Rx–Tx time difference under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC)	Rel-13	C22er	All TDD UEs supporting E-CID with Rx-Tx time difference and CRS interference handling and ss-CCH interference handling and Feature Group Indictor 115	pc_eTDD				Rel-11
8.1.7	E-UTRAN FDD UE Rx-Tx time difference case for Category M1/M2 UE in CEModeA	Rel-13	C72er	All FDD Category M1/M2 UEs supporting E-CID with Rx-Tx time difference	pc_eFDD				Rel-14
8.1.8	E-UTRAN HD-FDD UE Rx-Tx time difference case for Category M1/M2 UE in CEModeA	Rel-13	C73er	All HD-FDD Category M1/M2 UEs supporting E-CID with Rx-Tx time difference	pc_eFDD				Rel-14

8.1.9	E-UTRAN TDD UE Rx-Tx time difference case for Category M1/M2 UE in CEModeA	Rel-13	C74er	All TDD Category M1/M2 UEs supporting E-CID with Rx-Tx time difference	pc_eTDD				Rel-14
9	**OTDOA measurement requirements**								
9.1.1	FDD RSTD Measurement Reporting Delay	Rel-9	C13er	All FDD UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-9
9.1.1A	FDD RSTD Measurement Reporting Delay for UE Category 1bis	Rel-9	C44er	Category 1bis FDD UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-13 (Note 3)
9.1.2	TDD RSTD Measurement Reporting Delay	Rel-9	C14er	All TDD UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-9
9.1.2A	TDD RSTD Measurement Reporting Delay for UE Category 1bis	Rel-9	C45er	Category 1bis TDD UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-13 (Note 3)
9.1.3	FDD RSTD Measurement Accuracy	Rel-9	C13er	All FDD UEs supporting UE-assisted OTDOA	pc_eFDD		2Rx, 4Rx		Rel-9
9.1.3A	FDD RSTD Measurement Accuracy for UE Category 1bis	Rel-9	C44er	Category 1bis FDD UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-13 (Note 3)
9.1.4	TDD RSTD Measurement Accuracy	Rel-9	C14er	All TDD UEs supporting UE-assisted OTDOA	pc_eTDD		2Rx, 4Rx		Rel-9
9.1.4A	TDD RSTD Measurement Accuracy for UE Category 1bis	Rel-9	C45er	Category 1bis TDD UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-13 (Note 3)
9.2.1	FDD-FDD inter-frequency RSTD measurement reporting delay	Rel-10	C17er	All FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-10 (Note 1)
9.2.1A	FDD-FDD inter-frequency RSTD measurement reporting delay for UE Category 1bis	Rel-14	C46er	Category 1bis FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-13 (Note 1, 3)
9.2.2	TDD-TDD inter-frequency RSTD measurement reporting delay	Rel-10	C18er	All TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-10 (Note 1)
9.2.2A	TDD-TDD inter-frequency RSTD measurement reporting delay for UE Category 1bis	Rel-14	C47er	Category 1bis TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-13 (Note 1, 3)
9.2.4	FDD-FDD inter-frequency RSTD Accuracy	Rel-10	C17er	All FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD		2Rx, 4Rx		Rel-10 (Note 1)

9.2.4A	FDD-FDD inter-frequency RSTD Accuracy for UE Category 1bis	Rel-10	C46er	Category 1bis FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-13 (Note 1, 3)
9.2.5	TDD-TDD inter-frequency RSTD Accuracy	Rel-10	C18er	All TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD		2Rx, 4Rx		Rel-10 (Note 1)
9.2.5A	TDD-TDD inter-frequency RSTD Accuracy for UE Category 1bis	Rel-10	C47er	Category 1bis TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-13 (Note 1, 3)
9.3.1.1	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C48er	All FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.1.2	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C60er	All FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.2.1	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C49er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.2.2	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C61er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.3.1	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C50er	All TDD Category M1 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.3.2	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C62er	All TDD Category M2 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.4.1	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C51er	All FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.4.2	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C63er	All FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.5.1	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C52er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.5.2	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C64er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.6.1	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C53er	All TDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14

9.3.6.2	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C65er	All TDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14
9.3.7.1	FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C48er	All FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.7.2	FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C60er	All FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.8.1	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C49er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.8.2	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C61er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.9.1	TDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C50er	All TDD Category M1 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.9.2	TDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C62er	All TDD Category M2 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.10.1	FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C51er	All FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.10.2	FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C63er	All FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.11.1	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C52er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.11.2	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C64er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.12.1	TDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C53er	All TDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14
9.3.12.2	TDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C65er	All TDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14
9.4.1.1	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C54er	All FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14

9.4.1.2	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C66er	All FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.2.1	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C55er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.2.2	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C67er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.3.1	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C56er	All TDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.3.2	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C68er	All TDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.4.1	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C57er	All FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.4.2	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C69er	All FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.5.1	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C58er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.5.2	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C70er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14

9.4.6.1	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C59er	All TDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.6.2	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C71er	All TDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.7.1	FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C54er	All FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.7.2	FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C66er	All FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.8.1	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C55er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.8.2	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C67er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.9.1	TDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C56er	All TDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.9.2	TDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C68er	All TDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.10.1	FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C57er	All FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14

9.4.10.2	FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C69er	All FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.11.1	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C58er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.11.2	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C70er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.12.1	TDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C59er	All TDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.12.2	TDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C71er	All TDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.5.1	HD-FDD Intra frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in normal coverage	Rel-14	C75er	All Category NB1 UEs supporting UE-assisted OTDOA					Rel-14
9.5.2	HD-FDD Intra frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in enhanced coverage	Rel-14	C75er	All Category NB1 UEs supporting UE-assisted OTDOA					Rel-14
9.5.3	HD-FDD Intra frequency RSTD Measurement Reporting Delay for NB-IOT Standalone Mode in enhanced coverage	Rel-14	C75er	All Category NB1 UEs supporting UE-assisted OTDOA					Rel-14
9.6.1	HD-FDD Inter frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in normal coverage	Rel-14	C76er	All Category NB1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements					Rel-14
9.6.2	HD-FDD Inter frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in enhanced coverage	Rel-14	C76er	All Category NB1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements					Rel-14

9.6.3	HD-FDD Inter frequency RSTD Measurement Reporting Delay for NB-IOT Standalone Mode in enhanced coverage	Rel-14	C76er	All Category NB1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements					Rel-14
10	**OTDOA measurement requirements for Carrier Aggregation**								
10.1	FDD RSTD Measurement Reporting Delay for Carrier Aggregation	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-10
10.1A	FDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-10
10.1B	FDD RSTD Measurement Reporting Delay Carrier Aggregation for 5 MHz +5 MHz bandwidth	Rel-12	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-10
10.1C	FDD RSTD Measurement Reporting Delay for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-12	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-11
10.2	TDD RSTD Measurement Reporting Delay for Carrier Aggregation	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10
10.2A	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10
10.2B	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 5MHz +5 MHz bandwidth	Rel-12	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10

10.2C	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-12	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-11
10.2D	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz +10MHz Bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10
10.3	FDD RSTD Measurement Accuracy for Carrier Aggregation	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-10
10.3A	FDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-10 and Rel-11)	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-10, Rel-11
10.3A_1	FDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-12 onwards)	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-12
10.3B	FDD RSTD Measurement Accuracy for Carrier Aggregation for 5MHz +5 MHz bandwidth	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-10
10.3C	FDD RSTD Measurement Accuracy for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-11

10.4	TDD RSTD Measurement Accuracy for Carrier Aggregation	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10
10.4A	TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-10 and Rel-11)	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10, Rel-11
10.4A_1	TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-12 onwards)	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-12
10.4B	TDD RSTD Measurement Accuracy for Carrier Aggregation for 5 MHz +5 MHz bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10
10.4C	TDD RSTD Measurement Accuracy for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-11
10.4D	TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz+10MHz bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10
10.5	FDD 3 DL CA RSTD Measurement Reporting Delay	Rel-10	C27er	All FDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eFDD				Rel-12

10.6	TDD 3 DL CA RSTD Measurement Reporting Delay	Rel-10	C28er	All TDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eTDD				Rel-12
10.7	FDD RSTD Measurement Accuracy for 3DL Carrier Aggregation	Rel-10	C27er	All FDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eFDD		2Rx, 4Rx		Rel-12
10.8	TDD RSTD Measurement Accuracy for 3DL Carrier Aggregation	Rel-10	C28er	All TDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eTDD		2Rx, 4Rx		Rel-12
Note 1: This test case can be optionally tested for Rel-9 UEs supporting inter-frequency RSTD measurements that do not require measurement gaps. Note 2: The Carrier Aggregation TCs verify the same core requirement(s) however with different channel bandwidth configurations, this according to the guidance in TS 37.571-1, Clause 4.7.5 [5]. Note 3: This test case can be optionally tested for E-UTRA Rel-9 and forward UEs with only 1Rx antenna.									

Table 4-4: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for E-UTRA

C01er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND NOT (A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C02er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C03er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A
C04er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C05er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C06er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND NOT (A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A
C07er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A
C08er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A
C09er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A
C10er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A
C11er	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C12er	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C13er	IF A.4.1-1/1 AND A.4.3-2/4 THEN R ELSE N/A
C14er	IF A.4.1-1/2 AND A.4.3-2/4 THEN R ELSE N/A
C15er	IF A.4.1-1/1 AND A.4.3-2/15 THEN R ELSE N/A
C16er	IF A.4.1-1/2 AND A.4.3-2/15 THEN R ELSE N/A
C17er	IF A.4.1-1/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C18er	IF A.4.1-1/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C19er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9) THEN R ELSE N/A
C20er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/7 OR A.4.3-2/9) THEN R ELSE N/A
C21er	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 AND A.4.4-2/1 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C22er	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 AND A.4.4-2/1 AND A.4.4-2/2 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C23er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9) AND A.4.3-2/3 THEN R ELSE N/A
C24er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/7 OR A.4.3-2/9) AND A.4.3-2/3 THEN R ELSE N/A
C25er	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C26er	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C27er	IF A.4.1-1/1 AND A.4.3-2/19 THEN R ELSE N/A
C28er	IF A.4.1-1/2 AND A.4.3-2/19 THEN R ELSE N/A
C29er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/9 AND NOT (A.4.3-2/7 OR A.4.3-2/18) THEN R ELSE N/A
C30er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/9 AND NOT (A.4.3-2/7 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A

C31er	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/20 THEN R ELSE N/A
C32er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND A.4.3-2/18 AND NOT A.4.3-2/9 THEN R ELSE N/A
C33er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND A.4.3-2/18 AND NOT A.4.3-2/9 AND A.4.3-2/3 THEN R ELSE N/A
C34er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/6 AND NOT (A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C35er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C36er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A
C37er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/8 AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C38er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A
C39er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/9 AND NOT (A.4.3-2/7 OR A.4.3-2/18) THEN R ELSE N/A
C40er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9) THEN R ELSE N/A
C41er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/7 OR A.4.3-2/9) THEN R ELSE N/A
C42er	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/21 THEN R ELSE N/A
C43er	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/22 THEN R ELSE N/A
C44er	IF A.4.1-1/1 AND A.4.1-3/1 AND A.4.3-2/4 THEN R ELSE N/A
C45er	IF A.4.1-1/2 AND A.4.1-3/1 AND A.4.3-2/4 THEN R ELSE N/A
C46er	IF A.4.1-1/1 AND A.4.1-3/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C47er	IF A.4.1-1/2 AND A.4.1-3/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C48er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 THEN R ELSE N/A
C49er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 THEN R ELSE N/A
C50er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 THEN R ELSE N/A
C51er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C52er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C53er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C54er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C55er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C56er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C57er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C58er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C59er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C60er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C61er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C62er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C63er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C64er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C65er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C66er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A

C67er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C68er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C69er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C70er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C71er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C72er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C73er	IF A.4.1-1/1 AND A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C74er	IF A.4.1-1/2 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C75er	IF A.4.1-1/5 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C76er	IF A.4.1-1/5 AND A.4.1-3/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C77er	IF A.4.1-1/1 AND A.4.1-3/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C78er	IF A.4.1-1/2 AND A.4.1-3/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C79er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND A.4.3-2/9 AND NOT A.4.3-2/18 THEN R ELSE N/A
C80er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/9 AND A.4.3-2/18 AND NOT A.4.3-2/7 THEN R ELSE N/A
C81er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND A.4.3-2/9 AND NOT A.4.3-2/18 AND A.4.3-2/3 THEN R ELSE N/A
C82er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/9 AND A.4.3-2/18 AND NOT A.4.3-2/7 AND A.4.3-2/3 THEN R ELSE N/A
C83er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND A.4.3-2/9 AND NOT A.4.3-2/18 THEN R ELSE N/A
C84er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/9 AND A.4.3-2/18 AND NOT A.4.3-2/7 THEN R ELSE N/A
C85er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND A.4.3-2/18 AND NOT A.4.3-2/9 THEN R ELSE N/A

Table 4-5: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for UTRA

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.1.1.1	LCS Network Induced location request / UE-Based GPS / Emergency Call / with USIM	R99	C01us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.1.2	LCS Network induced location request / UE-Based GPS / Emergency call / Without USIM	R99	C01us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.1.3	LCS Network induced location request / UE-Assisted GPS / Emergency call / With USIM	R99	C03us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.1.4	LCS Network induced location request / UE-Assisted GPS / Emergency call / Without USIM	R99	C03us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.2.1	LCS Mobile originated location request / UE-Based GPS / Position estimate request / Success	R99	C09us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for a position estimate	1 Execution: CS
6.1.2.2	LCS Mobile originated location request UE-Based or UE-Assisted GPS / Assistance data request / Success	R99	C05us	UEs supporting FDD and (UE based or UE assisted Network Assisted GPS L1 C/A only) and MO-LR request for assistance data	1 Execution: CS
6.1.2.3	LCS Mobile originated location request / UE-Assisted GPS / Position Estimate / Success	R99	C10us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MO-LR request for a position estimate	1 Execution: CS
6.1.2.4	LCS Mobile originated location request / UE-Based GPS / Transfer to third party / Success	R99	C07us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for transfer to 3rd party	1 Execution: CS
6.1.2.5	LCS Mobile originated location request / UE-Assisted GPS / Transfer to third party / Success	R99	C08us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MO-LR request for transfer to 3rd party	1 Execution: CS
6.1.2.6	LCS Mobile originated location request / UE-Based or UE-Assisted GPS / Assistance data request / Failure	R99	C05us	UEs supporting FDD and (either UE based or UE assisted Network Assisted GPS L1 C/A only) and MO-LR request for assistance data	1 Execution: CS
6.1.2.7	LCS Mobile originated location request / UE-Based GPS / Position estimate request / Failure	R99	C09us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for position estimate	1 Execution: CS
6.1.3.1	LCS Mobile terminated location request / UE-Based GPS	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.2	LCS Mobile terminated location request / UE-Based GPS / Request of additional assistance data / Success	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.3	LCS Mobile-terminated location request / UE-Based GPS / Failure - Not Enough Satellites	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.4	LCS Mobile terminated location request / UE-Assisted GPS / Success	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.5	LCS Mobile terminated location request / UE-Assisted GPS / Request for additional assistance data / Success	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.6	LCS Mobile terminated location request / UE-Based GPS / Privacy Verification / Location Allowed if No Response	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.7	LCS Mobile terminated location request / UE-Based GPS / Privacy Verification / Location Not Allowed if No Response	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.1.3.8	LCS Mobile terminated location request / UE-Assisted GPS / Privacy Verification / Location Allowed if No Response	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.9	LCS Mobile terminated location request / UE-Assisted GPS / Privacy Verification / Location Not Allowed if No Response	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.10	LCS Mobile terminated location request / UE-Based or UE-Assisted GPS / Configuration incomplete	R99	C06us	UEs supporting FDD and UE based and/or UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability, but not UE-based OTDOA	1 Execution: CS
6.2.1.1_1s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 1	Rel-8	C11us	UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with GLONASS only	1 Execution: CS
6.2.1.1_2s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 2	Rel-12	C12us	UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with Galileo only	1 Execution: CS
6.2.1.1_3s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 3	Rel-8	C13us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with Modernized GPS only	1 Execution: CS
6.2.1.1_4s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 4	Rel-8	C14us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with GLONASS only	1 Execution: CS
6.2.1.1_8s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 8	Rel-12	C54us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with Galileo only	1 Execution: CS
6.2.1.1_9s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 9	Rel-12	C40us	UEs supporting -emergency speech call and UE based Network Assisted GANSS with BDS only	1 Execution: CS
6.2.1.1_10s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 10	Rel-12	C41us	UEs supporting emergency speech call and UE based Network Assisted GPS and GANSS with BDS only	1 Execution: CS
6.2.1.2_1s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 1	Rel-8	C15us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with GLONASS only	1 Execution: CS
6.2.1.2_2s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 2	Rel-12	C16us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with Galileo only	1 Execution: CS
6.2.1.2_3s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 3	Rel-8	C17us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with Modernized GPS only	1 Execution: CS
6.2.1.2_4s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 4	Rel-8	C18us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with GLONASS only	1 Execution: CS
6.2.1.2_8s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 8	Rel-12	C55us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with Galileo only	1 Execution: CS
6.2.1.2_9s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 9	Rel-12	C42us	UEs supporting emergency speech call and UE assisted Network Assisted GANSS with BDS only	1 Execution: CS
6.2.1.2_10s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 10	Rel-12	C43us	UEs supporting emergency speech call and UE assisted Network Assisted GPS and GANSS with BDS only	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.2.1_1s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 1	Rel-8	C19us	UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_2s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 2	Rel-12	C20us	UEs supporting FDD and UE based Network Assisted GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_3s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 3	Rel-8	C21us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_4s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 4	Rel-8	C22us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_8s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 8	Rel-12	C56us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_9s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 9	Rel-12	C44us	UEs supporting UE based Network Assisted GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_10s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 10	Rel-12	C45us	UEs supporting UE based Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_1s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 1	Rel-8	C23us	UEs supporting FDD and UE assisted Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_2s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 2	Rel-12	C24us	UEs supporting FDD and UE assisted Network Assisted GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_3s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 3	Rel-8	C25us	UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_4s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 4	Rel-8	C26us	UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_8s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 8	Rel-12	C57us	UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_9s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 9	Rel-12	C46us	UEs supporting UE assisted Network Assisted GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_10s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 10	Rel-12	C47us	UEs supporting UE assisted Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_1s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 1	Rel-8	C19us	UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_2s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 2	Rel-12	C20us	UEs supporting FDD and UE based Network Assisted GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.2.3_3s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 3	Rel-8	C21us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_4s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 4	Rel-8	C22us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_8s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 8	Rel-12	C56us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_9s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 9	Rel-12	C44us	UEs supporting UE based Network Assisted GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_10s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 10	Rel-12	C45us	UEs supporting UE based Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.4_1s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 1	Rel-8	C27us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_2s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 2	Rel-12	C28us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_3s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 3	Rel-8	C29us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_4s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 4	Rel-8	C30us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_8s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 8	Rel-12	C58us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Galileo only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_9s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 9	Rel-12	C48us	UEs supporting (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_10s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 10	Rel-12	C49us	UEs supporting ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_1s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 1	Rel-8	C27us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_2s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 2	Rel-12	C28us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only and MO-LR request for assistance data	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.2.5_3s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 3	Rel-8	C29us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_4s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 4	Rel-8	C30us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_8s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 8	Rel-12	C58us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Galileo only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_9s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 9	Rel-12	C48us	UEs supporting (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_10s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 10	Rel-12	C49us	UEs supporting ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.3.1_1s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 1	Rel-8	C35us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only	1 Execution: CS
6.2.3.1_2s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 2	Rel-12	C36us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only	1 Execution: CS
6.2.3.1_3s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 3	Rel-8	C37us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only	1 Execution: CS
6.2.3.1_4s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 4	Rel-8	C38us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only	1 Execution: CS
6.2.3.1_8s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 8	Rel-12	C59us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Galileo only	1 Execution: CS
6.2.3.1_9s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 9	Rel-12	C52us	UEs supporting (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only	1 Execution: CS
6.2.3.1_10s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 10	Rel-12	C53us	UEs supporting ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only	1 Execution: CS
6.2.3.2_1s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 1	Rel-8	C31us	UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only	1 Execution: CS
6.2.3.2_2s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 2	Rel-12	C32us	UEs supporting FDD and UE based Network Assisted GANSS with Galileo only	1 Execution: CS
6.2.3.2_3s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 3	Rel-8	C33us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.3.2_4s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 4	Rel-8	C34us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only	1 Execution: CS
6.2.3.2_8s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 8	Rel-12	C60us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Galileo only	1 Execution: CS
6.2.3.2_9s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 9	Rel-12	C50us	UEs supporting UE based Network Assisted GANSS with BDS only	1 Execution: CS
6.2.3.2_10s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 10	Rel-12	C51us	UEs supporting UE based Network Assisted GPS and GANSS with BDS only	1 Execution: CS
6.2.3.3	Location Notification	Rel-8	C39us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability	1 Execution: CS
6.2.3.4	Privacy Verification - Location Allowed if No Response	Rel-8	C39us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability	1 Execution: CS
6.2.3.5	Privacy Verification - Location Not Allowed if No Response	Rel-8	C39us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability	1 Execution: CS

Table 4-6: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for UTRA

C01us IF A.4.1-1/3 AND A.4.1-2/1 AND A.4.3-1/10 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C02us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-3/8 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C03us IF A.4.1-1/3 AND A.4.1-2/1 AND A.4.3-1/11 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C04us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-3/8 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C05us IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND A.4.3-3/5 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C06us IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND A.4.3-3/8 AND (NOT A.4.3-1/3) AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C07us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-3/7 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C08us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-3/7 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C09us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-3/6 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C10us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-3/6 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A
C11us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/7 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C12us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/9 AND NOT (A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C13us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C14us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C15us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C16us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/11 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C17us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C18us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C19us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C20us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C21us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/8 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C22us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C23us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C24us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C25us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/8 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C26us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C27us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C28us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C29us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND A.4.3-3/5 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C30us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/7 AND A.4.3-3/5 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C31us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C32us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/11 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C33us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C34us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C35us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C36us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A
C37us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C38us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A
C39us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-3/8 THEN R ELSE N/A
C40us IF A.4.3-1/5 AND A.4.3-1/13 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C41us IF A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C42us IF A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A

C43us IF A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C44us IF A.4.3-1/5 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C45us IF A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C46us IF A.4.3-1/6 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C47us IF A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C48us IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C49us IF ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/13 AND A.4.3-3/5 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C50us IF A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C51us IF A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C52us IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C53us IF ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C54us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C55us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C56us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C57us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C58us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND A.4.3-3/5 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C59us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C60us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A

Table 4-7: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for E-UTRA

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.1	**NAS Protocol Procedures**							
7.1.1	UE Network Capability	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2	**LCS Procedures**							
7.2.1.1	Location Notification	Rel-9	C14es	All UEs supporting EPC-MT-LR Location Notification	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.1.2	Privacy Verification – Location Allowed if no Response	Rel-9	C14es	All UEs supporting EPC-MT-LR Location Notification	pc_eFDD	px_UeLcsNotification: value for UE LCS Notification timeout timer.		Rel-9
					pc_eTDD			Rel-9
7.2.1.3	Privacy Verification – Location not Allowed if No Response	Rel-9	C14es	All UEs supporting EPC-MT-LR Location Notification	pc_eFDD	px_UeLcsNotification: value for UE LCS Notification timeout timer.		Rel-9
					pc_eTDD			Rel-9
7.2.2.1_1s	Void							
7.2.2.1_2s	Void							
7.2.2.1_3s	Void							
7.2.2.1_4s	Void							
7.2.2.1_8s	Void							
7.2.2.1_9s	Void							
7.2.2.1_10s	Void							
7.2.2.1_15s	Autonomous Self Location: UE-based: Subtest 15	Rel-9[2]	C64es	All UEs supporting UE-Based GNSS[1] and MO-LR request for assistance data.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.1_16s	Autonomous Self Location: UE-based: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C69es	All UEs supporting UE-Based MBS and MO-LR request for assistance data	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.2.2.1_17s	Autonomous Self Location: UE-based: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C75es	All UEs supporting UE-Based WLAN and MO-LR request for assistance data	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.1_18s	Autonomous Self Location: UE-based: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C71es	All UEs supporting UE-Based Sensor and MO-LR request for assistance data	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_1s	Void							
7.2.2.2_2s	Void							
7.2.2.2_3s	Void							
7.2.2.2_4s	Void							
7.2.2.2_5s	Basic Self Location: UE-assisted: Subtest 5	Rel-9	C09es	All UEs supporting UE-assisted OTDOA and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_6FDDs	Basic Self Location: UE-assisted: Subtest 6 (FDD)	Rel-9	C10es	All FDD UEs supporting UE-assisted ECID and MO-LR request for location estimate	pc_eFDD			Rel-9
7.2.2.2_6TDDs	Basic Self Location: UE-assisted: Subtest 6 (TDD)	Rel-13	C56es	All TDD UEs supporting UE-assisted ECID and MO-LR request for location estimate	pc_eTDD			Rel-9
7.2.2.2_8s	Void							
7.2.2.2_9s	Void							
7.2.2.2_10s	Void							
7.2.2.2_11s	Basic Self Location: UE-assisted: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C58es	All UEs supporting UE-assisted WLAN and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_12s	Basic Self Location: UE-assisted: Subtest 12	Rel-13 only	C53es	All UEs supporting UE-	pc_eFDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	UE supporting MBS (Rel-13 only)			assisted MBS and MO-LR request for location estimate	pc_eTDD			Rel-9
7.2.2.2_13s	Basic Self Location: UE-assisted: Subtest 13	Rel-13	C60es	All UEs supporting UE-assisted Bluetooth and MO-LR request for location estimate	pc_eFDD			Rel-9
					Pc_eTDD			Rel-9
7.2.2.2_14s	Basic Self Location: UE-assisted: Subtest 14 UE supporting Sensor (Rel-13 only)	Rel-13 only	C62es	All UEs supporting UE-assisted Sensor and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_15s	Basic Self Location: UE-assisted: Subtest 15	Rel-9(2)	C65es	All UEs supporting UE-assisted GNSS(1) and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_16s	Basic Self Location: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C53es	All UEs supporting UE-assisted MBS and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_17s	Basic Self Location: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C76es	All UEs supporting UE-assisted WLAN and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_18s	Basic Self Location: UE-assisted: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C72es	All UEs supporting UE-assisted Sensor and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3	**LPP Procedures**							
7.3.1.1	Position Capability Transfer	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.2.1	LPP Duplicated Message	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.2.2	LPP Acknowledgment	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.2.3	LPP Retransmission	Rel-9	C36es	All UEs supporting LPP and support of sending of acknowledgement request in LPP Provide Capabilities message.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.3.1	LPP Requested Method not Supported - UE-Assisted (Rel-9 to Rel-12)	Rel-9, Rel-10, Rel-11, Rel-12	C15es	All UEs supporting at least one of UE-assisted GNSS, UE-assisted OTDOA or UE-assisted ECID but not all of them.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.3.1A	LPP Requested Method not Supported - UE-	Rel-13 only	C54es	All UEs supporting at	pc_eFDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	Assisted (Rel-13 only)			least one of UE-assisted GNSS, UE-assisted OTDOA, or UE-assisted ECID or UE-assisted WLAN or UE-assisted MBS or UE-assisted Bluetooth or UE-assisted Sensor but not all of them.	pc_eTDD			Rel-9
7.3.3.1B	LPP Requested Method not Supported - UE-Assisted (Rel-14 onwards)	Rel-14	C54es	All UEs supporting at least one of UE-assisted GNSS, UE-assisted OTDOA, or UE-assisted ECID or UE-assisted WLAN or UE-assisted MBS or UE-assisted Bluetooth or UE-assisted Sensor but not all of them.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.1_1s	Void							
7.3.4.1_2s	Void							
7.3.4.1_3s	Void							
7.3.4.1_4s	Void							
7.3.4.1_8s	Void							
7.3.4.1_9s	Void							
7.3.4.1_10s	Void							
7.3.4.1_15s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 15	Rel-9[2]	C66es	All UEs supporting UE-based GNSS[1]	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.1_16s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C70es	All UEs supporting UE-based MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.1_17s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C77es	All UEs supporting UE-based WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.3.4.1_18s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C73es	All UEs supporting UE-based Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_1s	Void							
7.3.4.2_2s	Void							
7.3.4.2_3s	Void							
7.3.4.2_4s	Void							
7.3.4.2_5s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 5	Rel-9	C26es	All UEs supporting UE-Assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_6FDDs	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 6 (FDD)	Rel-9	C27es	All FDD UEs supporting UE-Assisted ECID	pc_eFDD			Rel-9
7.3.4.2_6TDDs	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 6 (TDD)	Rel-13	C57es	All TDD UEs supporting UE-Assisted ECID	pc_eTDD			Rel-9
7.3.4.2_7s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 7	Rel-9	C21es	All UEs supporting UE-assisted GNSS and UE-assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_8s	Void							
7.3.4.2_9s	Void							
7.3.4.2_10s	Void							
7.3.4.2_11s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_12s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 12 UE supporting MBS (Rel-13 only)	Rel-13 only	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_13s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 13	Rel-13	C61es	All UEs supporting UE-assisted Bluetooth	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_14s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 14 UE supporting Sensor (Rel-13 only)	Rel-13 only	C63es	All UEs supporting UE-assisted Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_15s		Rel-9[(2)]	C67es	All UEs supporting UE-	pc_eFDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 15			assisted GNSS(1)	pc_eTDD			Rel-9
7.3.4.2_16s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_17s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C78es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.2_18s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C74es	All UEs supporting UE-assisted Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_1s	Void							
7.3.4.3_2s	Void							
7.3.4.3_3s	Void							
7.3.4.3_4s	Void							
7.3.4.3_8s	Void							
7.3.4.3_9s	Void							
7.3.4.3_10s	Void							
7.3.4.3_15s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 15	Rel-9(2)	C66es	All UEs supporting UE-based GNSS(1)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_16s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C70es	All UEs supporting UE-based MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_17s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C77es	All UEs supporting UE-based WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_18s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C73es	All UEs supporting UE-based Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_1s	Void							
7.3.4.4_2s	Void							

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.3.4.4_3s	Void							
7.3.4.4_4s	Void							
7.3.4.4_5s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 5	Rel-9	C26es	All UEs supporting UE-Assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_7s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 7	Rel-9	C21es	All UEs supporting UE-assisted GNSS and UE-assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_8s	Void							
7.3.4.4_9s	Void							
7.3.4.4_10s	Void							
7.3.4.4_15s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 15	Rel-9(2)	C67es	All UEs supporting UE-assisted GNSS(1)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_16s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_17s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C78es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_18s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C74es	All UEs supporting UE-assisted Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_1s	Void							
7.3.5.1_2s	Void							
7.3.5.1_3s	Void							
7.3.5.1_4s	Void							
7.3.5.1_5s	E-SMLC initiated Abort: Subtest 5	Rel-9	C26es	All UEs supporting UE-assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_8s	Void							

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.3.5.1_9s	Void							
7.3.5.1_10s	Void							
7.3.5.1_11s	E-SMLC initiated Abort: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_12s	E-SMLC initiated Abort: Subtest 12 UE supporting MBS (Rel-13 only)	Rel-13 only	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_13s	E-SMLC initiated Abort: Subtest 13	Rel-13	C61es	All UEs supporting UE-assisted Bluetooth	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_15s	E-SMLC initiated Abort: Subtest 15	Rel-9(2)	C68es	All UEs supporting UE-based or UE-assisted GNSS(1)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_16s	E-SMLC initiated Abort: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_17s	E-SMLC initiated Abort: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C78es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4	**Circuit Switched (CS) Fallback**							
7.4.1.1	CS fallback: Network does not support EPC-MO-LR	Rel-9	C12es	All UEs supporting MO-LR procedure for location estimate in the CS fallback in EPS.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4.1.2	CS fallback: UE does not support EPC-MO-LR	Rel-9	C13es	All UEs not supporting EPC-MO-LR and supporting MO-LR procedure for location estimate in the CS fallback in EPS.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5	**RRC Protocol Procedures**							
7.5.1	Inter-Frequency RSTD measurement indication	Rel-10	C37es	All UEs supporting inter-frequency RSTD measurements for OTDOA that require measurement gaps.	pc_eFDD			Rel-10
					pc_eTDD			Rel-10

NOTE 1: The GNSS combination of GPS, GLONASS, Galileo, BDS supported by the UE
NOTE 2: If the GNSS combination supported by the UE includes Galileo and/or BDS then Rel-12 of LPP is required

Table 4-8: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for E-UTRA

C01es	Void
C02es	Void
C03es	Void
C04es	Void
C05es	Void
C06es	Void
C07es	Void
C08es	Void
C09es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/4 AND A.4.3-3/2 THEN R ELSE N/A
C10es	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-3/2 THEN R ELSE N/A
C11es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/1 THEN R ELSE N/A
C12es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/3 OR A.4.1-1/4) AND A.4.3-3/4 THEN R ELSE N/A
C13es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/3 OR A.4.1-1/4) AND A.4.3-3/4 AND NOT (A.4.3-3/1 AND A.4.3-3/2) THEN R ELSE N/A
C14es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/3 THEN R ELSE N/A
C15es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/2 OR A.4.3-2/4 OR A.4.3-2/5) AND NOT (A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-2/5) THEN R ELSE N/A
C16es	Void
C17es	Void
C18es	Void
C19es	Void
C20es	Void
C21es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-2/4 THEN R ELSE N/A
C22es	Void
C23es	Void
C24es	Void
C25es	Void
C26es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/4 THEN R ELSE N/A
C27es	IF A.4.1-1/1 AND A.4.3-2/5 THEN R ELSE N/A
C28es	Void
C29es	Void
C30es	Void
C31es	Void
C32es	Void
C33es	Void
C34es	Void
C35es	Void
C36es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/1 AND A.4.4-1/1 THEN R ELSE N/A
C37es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/16 THEN R ELSE N/A
C38es	Void
C39es	Void
C40es	Void
C41es	Void
C42es	Void
C43es	Void
C44es	Void
C45es	Void

C46es	Void
C47es	Void
C48es	Void
C49es	Void
C50es	Void
C51es	Void
C52es	Void
C53es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/20 THEN R ELSE N/A
C54es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/2 OR A.4.3-2/4 OR A.4.3-2/5 OR A.4.3-2/20 OR A.4.3-2/21 OR A.4.3-2/22 OR A.4.3-2/23) AND NOT (A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-2/5 AND A.4.3-2/20 AND A.4.3-2/21 AND A.4.3-2/22 AND A.4.3-2/23) THEN R ELSE N/A
C55es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/20 THEN R ELSE N/A
C56es	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-3/2 THEN R ELSE N/A
C57es	IF A.4.1-1/2 AND A.4.3-2/5 THEN R ELSE N/A
C58es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/21 THEN R ELSE N/A
C59es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/21 THEN R ELSE N/A
C60es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/22 THEN R ELSE N/A
C61es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/22 THEN R ELSE N/A
C62es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/23 THEN R ELSE N/A
C63es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/23 THEN R ELSE N/A
C64es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 THEN R ELSE N/A
C65es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 THEN R ELSE N/A
C66es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 THEN R ELSE N/A
C67es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 THEN R ELSE N/A
C68es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) THEN R ELSE N/A
C69es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/26 AND A.4.3-3/1 THEN R ELSE N/A
C70es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/26 THEN R ELSE N/A
C71es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/28 AND A.4.3-3/1 THEN R ELSE N/A
C72es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/23 THEN R ELSE N/A
C73es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/28 THEN R ELSE N/A
C74es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/23 THEN R ELSE N/A
C75es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/27 AND A.4.3-3/1 THEN R ELSE N/A
C76es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/21 THEN R ELSE N/A
C77es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/27 THEN R ELSE N/A
C78es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/21 THEN R ELSE N/A

Table 4-9: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for NR

Clause	Test Config.	TC Title	Release of LPP	Applicability		
				Condition	Comment	Release RAT
9.1		**NAS Protocol Procedures**				
9.1.1	A	UE Network Capability NR Network	Rel-9	C01ns	All UEs supporting EN-DC and LPP. Running this test case replaces the execution of 7.1.1 in Table 4-7	Rel-15
9.3		**LPP Procedures**				
9.3.1		**LPP Common Procedures**				
9.3.1.1	A	LPP Position Capability Transfer	Rel-9	C01ns	All UEs supporting EN-DC and LPP. Running this test case replaces the execution of 7.3.1.1 in Table 4-7	Rel-15
9.3.1.2_5s	A	E-SMLC initiated Abort: Subtest 5	Rel-15	C02ns	All UEs supporting EN-DC and UE-Assisted OTDOA. Running this test case replaces the execution of 7.3.5.1_5s in Table 4-7	Rel-15
9.3.1.2_13s	A	E-SMLC initiated Abort: Subtest 13	Rel-15	C03ns	All UEs supporting EN-DC and UE-Assisted Bluetooth. Running this test case replaces the execution of 7.3.5.1_13s in Table 4-7	Rel-15
9.3.1.2_15s	A	E-SMLC initiated Abort: Subtest 15	Rel-15	C04ns	All UEs supporting EN-DC and UE-Based or UE-Assisted A-GNSS(1). Running this test case replaces the execution of 7.3.5.1_15s in Table 4-7	Rel-15
9.3.1.2_16s	A	E-SMLC initiated Abort: Subtest 16	Rel-15	C05ns	All UEs supporting EN-DC and UE-Assisted MBS. Running this test case replaces the execution of 7.3.5.1_16s in Table 4-7	Rel-15
9.3.1.2_17s	A	E-SMLC initiated Abort: Subtest 17	Rel-15	C06ns	All UEs supporting EN-DC and UE-Assisted WLAN. Running this test case replaces the execution of 7.3.5.1_17s in Table 4-7	Rel-15
9.3.2		**LPP Transport**				
9.3.2.1	A	LPP Duplicated Message	Rel-9	C01ns	All UEs supporting EN-DC and LPP. Running this test case replaces the execution of 7.3.2.1 in Table 4-7	Rel-15
9.3.2.2	A	LPP Acknowledgement	Rel-9	C01ns	All UEs supporting EN-DC and LPP. Running this test case replaces the execution of 7.3.2.2 in Table 4-7	Rel-15
9.3.2.3	A	LPP Retransmission	Rel-9	C07ns	All UEs supporting EN-DC, LPP and the sending of acknowledgement request in LPP Provide Capabilities message. Running this test case replaces the execution of 7.3.2.3 in Table 4-7	Rel-15
9.3.3		**LPP Error Handling**				
9.3.3.1	A	LPP Requested Method not Supported - UE-Assisted (Rel-9 to Rel-12)	Rel-9, Rel-10, Rel-11, Rel-12	C08ns	All UEs supporting EN-DC and at least one of UE-assisted GNSS, UE-assisted OTDOA, or UE-assisted ECID or UE-assisted WLAN or UE-assisted MBS or UE-assisted Bluetooth or UE-assisted Sensor but not all of them. Running this test case replaces the execution of 7.3.3.1, 7.3.3.1A or 7.3.3.1B in Table 4-7	Rel-15
9.3.3.1A	A	LPP Requested Method not Supported - UE-Assisted (Rel-13 only)	Rel-13 only	C08ns	All UEs supporting EN-DC and at least one of UE-assisted GNSS, UE-assisted OTDOA, or UE-assisted ECID or UE-assisted WLAN or UE-assisted MBS or UE-assisted Bluetooth or UE-assisted Sensor but not all of them. Running this test case replaces the execution of 7.3.3.1, 7.3.3.1A or 7.3.3.1B in Table 4-7	Rel-15

Clause	Test Config.	TC Title	Release of LPP	Applicability		
				Condition	Comment	Release RAT
9.3.3.1B	A	LPP Requested Method not Supported - UE-Assisted (Rel-14 onwards)	Rel-14	C08ns	All UEs supporting EN-DC and at least one of UE-assisted GNSS, UE-assisted OTDOA, or UE-assisted ECID or UE-assisted WLAN or UE-assisted MBS or UE-assisted Bluetooth or UE-assisted Sensor but not all of them. Running this test case replaces the execution of 7.3.3.1, 7.3.3.1A or 7.3.3.1B in Table 4-7	Rel-15
9.3.4		**LPP Positioning Procedures**				
9.3.4.1_15s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 15	Rel-9	C10ns	All UEs supporting EN-DC and UE-Based A-GNSS(1). Running this test case replaces the execution of 7.3.4.1_15s in Table 4-7	Rel-15
9.3.4.1_16s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 16	Rel-14	C11ns	All UEs supporting EN-DC and UE-Based MBS. Running this test case replaces the execution of 7.3.4.1_16s in Table 4-7	Rel-15
9.3.4.1_17s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 17	Rel-14	C12ns	All UEs supporting EN-DC and UE-Based WLAN. Running this test case replaces the execution of 7.3.4.1_17s in Table 4-7	Rel-15
9.3.4.1_18s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 18	Rel-14	C13ns	All UEs supporting EN-DC and UE-Based Sensor. Running this test case replaces the execution of 7.3.4.1_18s in Table 4-7	Rel-15
9.3.4.2_5s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 5	Rel-9	C02ns	All UEs supporting EN-DC and UE-Assisted OTDOA. Running this test case replaces the execution of 7.3.4.2_5s in Table 4-7	Rel-15
9.3.4.2_6s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 6	Rel-9	C15ns	All UEs supporting EN-DC and UE-Assisted ECID. Running this test case replaces the execution of 7.3.4.2_6s in Table 4-7	Rel-15
9.3.4.2_7s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 7	Rel-9	C16ns	All UEs supporting EN-DC and UE-Assisted GNSS and OTDOA. Running this test case replaces the execution of 7.3.4.2_7s in Table 4-7	Rel-15
9.3.4.2_13s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 13	Rel-13	C03ns	All UEs supporting EN-DC and UE-Assisted Bluetooth. Running this test case replaces the execution of 7.3.4.2_13s in Table 4-7	Rel-15
9.3.4.2_15s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 15	Rel-9	C14ns	All UEs supporting EN-DC and UE-Assisted A-GNSS(1). Running this test case replaces the execution of 7.3.4.2_15s in Table 4-7	Rel-15
9.3.4.2_16s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 16	Rel-14	C05ns	All UEs supporting EN-DC and UE-Assisted MBS. Running this test case replaces the execution of 7.3.4.2_16s in Table 4-7	Rel-15
9.3.4.2_17s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 17	Rel-14	C06ns	All UEs supporting EN-DC and UE-Assisted WLAN. Running this test case replaces the execution of 7.3.4.2_17s in Table 4-7	Rel-15
9.3.4.2_18s	A	Network Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 18	Rel-14	C09ns	All UEs supporting EN-DC and UE-Assisted Sensor. Running this test case replaces the execution of 7.3.4.2_18s in Table 4-7	Rel-15
9.3.4.3_15s	A	Network Initiated Position Measurement without Assistance Data: UE-Based: Subtest 15	Rel-9	C10ns	All UEs supporting EN-DC and UE-Based A-GNSS(1). Running this test case replaces the execution of 7.3.4.3_15s in Table 4-7	Rel-15
9.3.4.3_16s	A	Network Initiated Position Measurement without Assistance Data: UE-Based: Subtest 16	Rel-14	C11ns	All UEs supporting EN-DC and UE-Based MBS. Running this test case replaces the execution of 7.3.4.3_16s in Table 4-7	Rel-15

Clause	Test Config.	TC Title	Release of LPP	Applicability		
				Condition	Comment	Release RAT
9.3.4.3_17s	A	Network Initiated Position Measurement without Assistance Data: UE-Based: Subtest 17	Rel-14	C12ns	All UEs supporting EN-DC and UE-Based WLAN. Running this test case replaces the execution of 7.3.4.3_17s in Table 4-7	Rel-15
9.3.4.3_18s	A	Network Initiated Position Measurement without Assistance Data: UE-Based: Subtest 18	Rel-14	C13ns	All UEs supporting EN-DC and UE-Based Sensor. Running this test case replaces the execution of 7.3.4.3_18s in Table 4-7	Rel-15
9.3.4.4_5s	A	Network Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 5	Rel-9	C02ns	All UEs supporting EN-DC and UE-Assisted OTDOA. Running this test case replaces the execution of 7.3.4.4_5s in Table 4-7	Rel-15
9.3.4.4_7s	A	Network Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 7	Rel-9	C16ns	All UEs supporting EN-DC, UE-assisted A-GNSS(1) and UE-assisted OTDOA. Running this test case replaces the execution of 7.3.4.4_5s in Table 4-7	Rel-15
9.3.4.4_15s	A	Network Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 15	Rel-9	C14ns	All UEs supporting EN-DC and UE-Assisted A-GNSS(1). Running this test case replaces the execution of 7.3.4.4_15s in Table 4-7	Rel-15
9.3.4.4_16s	A	Network Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 16	Rel-14	C05ns	All UEs supporting EN-DC and UE-Assisted MBS. Running this test case replaces the execution of 7.3.4.4_16s in Table 4-7	Rel-15
9.3.4.4_17s	A	Network Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 17	Rel-14	C06ns	All UEs supporting EN-DC and UE-Assisted WLAN. Running this test case replaces the execution of 7.3.4.4_17s in Table 4-7	Rel-15
9.3.4.4_18s	A	Network Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 18	Rel-14	C09ns	All UEs supporting EN-DC and UE-Assisted Sensor. Running this test case replaces the execution of 7.3.4.4_18s in Table 4-7	Rel-15
NOTE 1: The GNSS combination of GPS, GLONASS, Galileo, BDS supported by the UE						

Table 4-10: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for NR

C01ns	IF (A.4.1-4/2 AND A.4.2-1/1) THEN R ELSE N/A
C02ns	IF (A.4.1-4/2 AND A.4.3-2/4) THEN R ELSE N/A
C03ns	IF (A.4.1-4/2 AND A.4.3-2/22) THEN R ELSE N/A
C04ns	IF (A.4.1-4/2 AND (A.4.3-2/1 OR A.4.3-2/2)) THEN R ELSE N/A
C05ns	IF (A.4.1-4/2 AND A.4.3-2/20) THEN R ELSE N/A
C06ns	IF (A.4.1-4/2 AND A.4.3-2/21) THEN R ELSE N/A
C07ns	IF (A.4.1-4/2 AND A.4.2-1/1 AND A.4.4-1/1) THEN R ELSE N/A
C08ns	IF (A.4.1-4/2 AND (A.4.3-2/2 OR A.4.3-2/4 OR A.4.3-2/5 OR A.4.3-2/20 OR A.4.3-2/21 OR A.4.3-2/22 OR A.4.3-2/23) AND NOT (A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-2/5 AND A.4.3-2/20 AND A.4.3-2/21 AND A.4.3-2/22 AND A.4.3-2/23)) THEN R ELSE N/A
C09ns	IF (A.4.1-4/2 AND A.4.3-2/23) THEN R ELSE N/A
C10ns	IF (A.4.1-4/2 AND A.4.3-2/1) THEN R ELSE N/A
C11ns	IF (A.4.1-4/2 AND A.4.3-2/26) THEN R ELSE N/A
C12ns	IF (A.4.1-4/2 AND A.4.3-2/27) THEN R ELSE N/A
C13ns	IF (A.4.1-4/2 AND A.4.3-2/28) THEN R ELSE N/A
C14ns	IF (A.4.1-4/2 AND A.4.3-2/2) THEN R ELSE N/A
C15ns	IF (A.4.1-4/2 AND A.4.3-2/5) THEN R ELSE N/A
C16ns	IF (A.4.1-4/2 AND A.4.3-2/2 AND A.4.3-2/4) THEN R ELSE N/A

Table 4-11: Applicability of tests and additional information for testing for test cases in TS 37.571-1 [5] for NR

FFS

Table 4-12: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for NR

FFS

Annex A (normative): ICS proforma for User Equipment

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

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

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

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

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [8].

Item column

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

Item description column

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

Reference column

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

Release column

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

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

Comments column

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

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

A.1.3 Instructions for completing the ICS proforma

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

A.2 Identification of the User Equipment

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

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

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

A.2.1 Date of the statement

.....

A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....

.....

Hardware configuration:

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.....

.....

Software configuration:

.....

.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3 Identification of the protocol

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

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Mnemonic	Comments
1	E-UTRA FDD				Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/1
2	E-UTRA TDD				Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/2
3	UTRA FDD				Refer to 3GPP TS 34.123-2 [12] Table A.1/1
4	UTRA TDD				Refer to 3GPP TS 34.123-2 [12] Table A.1/3
5	NB-IOT				Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/8
6	NR FDD				Refer to 3GPP TS 38.508-2 [16] Table A.4.1-1/1
7	NR TDD				Refer to 3GPP TS 38.508-2 [16] Table A. 4.1-1/2

Table A.4.1-2: Teleservices

Item	Teleservices	Ref.	Release	Mnemonic	Comments
1	Emergency call				Refer to 3GPP TS 34.123-2 [12] Table A.2/2

Table A.4.1-3: UE Categories

Item	UE Category	Ref.	Release	Mnemonic	Comments
1	Category 1bis	36.306	Rel-13		UE with DL Category 1bis and UL Category 1bis as defined in TS 36.306 [13] Table 4.1A-1 and 4.1A-2
2	Category M1	36.306	Rel-13		UE with DL Category M1 and UL Category M1 as defined in TS 36.306 [13] Table 4.1A-1 and 4.1A-2
3	Category M2	36.306	Rel-13		UE with DL Category M2 and UL Category M2 as defined in TS 36.306 [13] Table 4.1A-1 and 4.1A-2
4	Category NB1	36.306	Rel-13		UE with DL Category NB1 and UL Category NB1 as defined in TS 36.306 [13] Table 4.1C-1 and 4.1C-2
5	Category NB2	36.306	Rel-13		UE with DL Category NB2 and UL Category NB2 as defined in TS 36.306 [13] Table 4.1C-1 and 4.1C-2

Table A.4.1-4: RAN-CN Interface Options

Item	UE support of RAN-CN Interface Options	Ref.	Release	Mnemonic	Comments
1	NG-RAN NR (Option 2)	38.300	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/1
2	EN-DC (Option 3)	37.340	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/2
3	NE-DC (Option 4)	37.340	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/3
4	NG-RAN E-UTRA (Option 5)	38.300	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/4
5	NGEN-DC (Option 7)	37.340	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/5

A.4.2 Baseline Implementation Capabilities

Table A.4.2-1: Supported Protocols

Item	Special Conformance Testing Functions	Ref.	Release	Mnemonic	Comments
1	LTE Positioning Protocol (LPP)	36.355	Rel-9	pc_LPP	
2	Support for OMA LPPe	OMA-TS-LPPe-V1.0	Rel-9	pc_OMA_LPPe	

Table A.4.2-2: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	Reset of UE Positioning Stored Information	36.509	Rel-9	E-UTRA
2	Reset of UE Positioning Stored Information	34.109	R99	UTRA
3	Reset of UE Positioning Stored Information	38.509	Rel-15	NR

Table A.4.2-3: Additional Capabilities

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	Support of Type B Half-duplex FDD operation	36.211, 6,2,5 36.306, 4.2.6	Rel-12	Support of Half-duplex FDD operation type B for category 0 and category M1 UE

A.4.3 UE Positioning Capabilities

Table A.4.3-1: UTRA UE positioning capabilities

Item	Services Capabilities	Ref.	Release	Mnemonic	Comments
1	Support for IPDL	25.306, 4.8	R99	pc_UE_PositioningIPDL_Sup	
2	Support of GPS timing of cell frames	25.306, 4.8	R99	pc_UE_PositioningGPS_TimingOfCellFramesSup	
3	Support of UE-based OTDOA	25.306, 4.8	R99	pc_UE_PositioningBasedOTDOA_Sup	
4	Support of Standalone location method	25.306, 4.8	R99	pc_UE_PositioningStandaloneLocMethodsSup	
5	Support of UE-Based A-GANSS	25.306, 4.8	Rel-8	pc_UEB_A_GANSS	NOTE 1
6	Support of UE-Assisted A-GANSS	25.306, 4.8	Rel-8	pc_UEA_A_GANSS	NOTE 1
7	Support for GLONASS	25.306, 4.8	Rel-8	pc_GLONASS	
8	Support for Modernized GPS	25.306, 4.8	Rel-8	pc_MGPS	
9	Support for Galileo	25.306, 4.8	Rel-12	pc_GALILEO	NOTE 2
10	Support of UE based Network Assisted GPS L1 C/A	25.306, 4.8	R99	pc_UeBasedAgps	
11	Support of UE assisted Network Assisted GPS L1 C/A	25.306, 4.8	R99	pc_UeAssistedAgps	
12	Support of Fine Time Assistance	25.171, 4.4	Rel-6		
13	Support for BDS	25.306, 4.8	Rel-12	pc_BDS	
NOTE 1: If the capability is supported by the UE, then at least one of A.4.3-1/7, A.4.3-1/8, A.4.3-1/9 or A.4.3-1/13 must be supported as well. NOTE 2: Non-backwards compatible changes were made to the Galileo Assistance Data in RRC Rel-12, therefore testing cannot be done for earlier releases.					

Table A.4.3-2: E-UTRA UE Positioning Capabilities

Item	UE Positioning Capabilities	Ref.	Release	Mnemonic	Comments
1	Support of UE based Assisted-GNSS	36.355	Rel-9	pc_UEB_AGNSS	This implies support of LPP A.4.2-1/1
2	Support of UE assisted Assisted-GNSS	36.355	Rel-9	pc_UEA_AGNSS	This implies support of LPP A.4.2-1/1
3	Support of GNSS Fine Time Assistance	36.355	Rel-9	pc_GNSS_FTA	This implies support of LPP A.4.2-1/1
4	Support of UE assisted OTDOA	36.355	Rel-9	pc_OTDOA	This implies support of LPP A.4.2-1/1
5	Support of UE assisted ECID	36.355	Rel-9 (FDD) Rel-13 (TDD) NOTE 2	pc_ECID	This implies support of LPP A.4.2-1/1
6	Support for A-GPS L1C/A	36.355	Rel-9	pc_A_GPS_L1C_A	This implies support of LPP A.4.2-1/1
7	Support for A-GLONASS	36.355	Rel-9	pc_A_GLONASS	This implies support of LPP A.4.2-1/1
8	Support for A-GPS L1C/A and Modernized GPS	36.355	Rel-9	pc_A_GPS_L1C_A_MGPS	This implies support of LPP A.4.2-1/1
9	Support for A-Galileo	36.355	Rel-12	pc_A_Galileo	This implies support of LPP A.4.2-1/1. NOTE 1
10	Support of UE Fine Time Assistance measurements for UE-based Assisted-GNSS	36.355	Rel-9	pc_GNSS_FTA_UEB	This implies support of LPP A.4.2-1/1
11	Support of UE Fine Time Assistance measurements for UE-assisted Assisted-GNSS	36.355	Rel-9	pc_GNSS_FTA_UEA	This implies support of LPP A.4.2-1/1
12	Support of GNSS Acquisition Assistance	36.355; 37.571-2, 5.4.1	Rel-9	pc_GNSS_AA	This implies support of LPP A.4.2-1/1
13	Support for A-SBAS	36.355	Rel-9	pc_A_SBAS	
14	Support for A-QZSS	36.355	Rel-9	pc_A_QZSS	
15	Support of UE assisted OTDOA for Carrier Aggregation	36.355	Rel-10	pc_OTDOA_CA	This implies support of LPP A.4.2-1/1
16	Support of inter-frequency RSTD measurements that require measurement gaps	36.355	Rel-10	pc_InterFreq_RSTD_withGaps	This implies support of UE assisted OTDOA A.4.3-2/4
17	Support of inter-frequency RSTD measurements	36.355	Rel-10	pc_InterFreq_RSTD	This implies support of UE assisted OTDOA A.4.3-2/4
18	Support for A-BDS	36.355	Rel-12	pc_A_BDS	This implies support of LPP A.4.2-1/1
19	Support of UE assisted OTDOA for 3DL Carrier Aggregation	36.355	Rel-12	pc_OTDOA_3DLCA	This implies support of LPP A.4.2-1/1
20	Support for UE-Assisted MBS	36.355	Rel-13	pc_UEA_MBS	This implies support of LPP A.4.2-1/1
21	Support for UE-Assisted WLAN	36.355	Rel-13	pc_WLAN	This implies support of LPP A.4.2-1/1
22	Support for UE-Assisted Bluetooth	36.355	Rel-13	pc_Bluetooth	This implies support of LPP A.4.2-1/1
23	Support for UE-Assisted Sensor	36.355	Rel-13	pc_Sens	This implies support of LPP A.4.2-1/1
24	No support of periodical reporting for UE based Assisted-GNSS.	36.355	Rel-14	pc_UEB_Noperiodic	This implies support of LPP A.4.2-1/1
25	No support of periodical reporting for UE assisted Assisted-GNSS.	36.355	Rel-14	pc_UEA_Noperiodic	This implies support of LPP A.4.2-1/1
26	Support for UE-Based MBS	36.355	Rel-14	pc_UEB_MBS	This implies support of LPP A.4.2-1/1
27	Support for UE-Based WLAN	36.355	Rel-14	pc_UEB_WLAN	This implies support of LPP A.4.2-1/1
28	Support for UE-Based Sensor	36.355	Rel-14	pc_UEB_Sens	This implies support of LPP A.4.2-1/1

NOTE 1: Non-backwards compatible changes were made to the Galileo Assistance Data in LPP Rel-12, therefore testing cannot be done for earlier releases.

NOTE 2: For TDD with LPP releases before Rel-13 the UE Rx - Tx time difference measurement report mapping is ambiguous and therefore testing shall not be performed.

Table A.4.3-3: Supplementary Services

Item	UE Positioning Capabilities	Ref.	Release	Mnemonic	Comments
1	Support of EPC-MO-LR request for assistance data	24.171; 24.030; 24.080	Rel-9	pc_EPC_MO_LR_RequestAssistanceData	
2	Support of EPC-MO-LR request for a position estimate	24.171; 24.030; 24.080	Rel-9	pc_EPC_MO_LR_RequestPositionEstimate	
3	Support of EPC-MT-LR Location Notification	24.171; 24.030; 24.080	Rel-9	pc_MT_LR_loc_notif	
4	Support for CS-MO-LR with CS Fallback for a position estimate	23.272	Rel-9	pc_CS_MO_LR_CSFallback	
5	Support of MO-LR request for assistance data	24.030, 5.1.1;24.080, 4.4.3.44;23.171, 8.1.1	R99	pc_ParamGpsAssisData	UTRA
6	Support of MO-LR request for a position estimate	23.171, 8.1.1	R99	pc_ParamPosEstimate	UTRA
7	Support of MO-LR request for transfer to 3rd party	23.171, 8.1.1	R99	pc_ParamXfer3rdPty	UTRA
8	Support of MT-LR LCS value added location request notification capability	24.030;23.271	R99	pc_MT_LR	UTRA

Table A.4.3-4: E-CID Measurements

Item	UE Positioning Capabilities	Ref.	Release	Mnemonic	Comments
1	RSRP Supported	36.355, 6.5.3.4	Rel-9	pc_ECID_Rsrp	
2	RSRQ Supported	36.355, 6.5.3.4	Rel-9	pc_ECID_Rsrq	
3	UE Rx-Tx Time Difference Supported	36.355, 6.5.3.4	Rel-9	pc_ECID_UeRxTx	

Table A.4.3-5: GNSS Signals

Item	GNSS Signals Capabilities	Ref.	Release	Mnemonic	Comments
1	Support of A-GPS L1C signal	36.355, 6.5.2.13	Rel-9	pc_A_GPS_L1C	
2	Support of A-GPS L2C signal	36.355, 6.5.2.13	Rel-9	pc_A_GPS_L2C	
3	Support of A-GPS L5 signal	36.355, 6.5.2.13	Rel-9	pc_A_GPS_L5	
4	Support of QZS-L1 C/A signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L1	
5	Support of QZS-L1C signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L1C	
6	Support of QZS-L2C signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L2C	
7	Support of QZS-L5 signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L5	
8	Support of G1 C/A signal in GLONASS	36.355, 6.5.2.13	Rel-9	pc_GLONASS_G1	
9	Support of G2 C/A signal in GLONASS	36.355, 6.5.2.13	Rel-9	pc_GLONASS_G2	
10	Support of G3 signal in GLONASS	36.355, 6.5.2.13	Rel-9	pc_GLONASS_G3	
11	Support of E1 signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E1	
12	Support of E5a signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E5a	
13	Support of E5b signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E5b	
14	Support of E6 signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E6	
15	Support of E5a+E5b signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E5aE5b	
16	Support of B1 I signal in BDS	36.355, 6.5.2.13	Rel-12	pc_BDS_B1I	

Table A.4.3-6: ADR and Velocity Measurements

Item	ADR and Velocity Measurements	Ref.	Release	Mnemonic	Comments
1	Support of ADR measurement reporting for Gps	36.355, 6.5.2.9	Rel-9	pc_A_GPS_ADR	
2	Support of ADR measurement reporting for Sbas	36.355, 6.5.2.9	Rel-9	pc_SBAS_ADR	
3	Support of ADR measurement reporting for Qzss	36.355, 6.5.2.9	Rel-9	pc_QZSS_ADR	
4	Support of ADR measurement reporting for Galileo	36.355, 6.5.2.9	Rel-12	pc_GALILEO_ADR	
5	Support of ADR measurement reporting for Glonass	36.355, 6.5.2.9	Rel-9	pc_GLONASS_ADR	
6	Support of Velocity measurement reporting for Gps	36.355, 6.5.2.9	Rel-9	pc_A_GPS_VelocityMeas	
7	Support of Velocity measurement reporting for Sbas	36.355, 6.5.2.9	Rel-9	pc_SBAS_VelocityMeas	
8	Support of Velocity measurement reporting for Qzss	36.355, 6.5.2.9	Rel-9	pc_QZSS_VelocityMeas	
9	Support of Velocity measurement reporting for Galileo	36.355, 6.5.2.9	Rel-12	pc_GALILEO_VelocityMeas	
10	Support of Velocity measurement reporting for Glonass	36.355, 6.5.2.9	Rel-9	pc_GLONASS_Velocity Meas	
11	Support of ADR measurement reporting for BDS	36.355, 6.5.2.9	Rel-12	pc_BDS_ADR	
12	Support of Velocity measurement reporting for BDS	36.355, 6.5.2.9	Rel-12	pc_BDS_VelocityMeas	
13	Support of ADR enhancements for Gps	36.355, 6.5.2.9	Rel-15	pc_A_GPS_ADR_ENH	Requires support of pc_A_GPS_ADR
14	Support of ADR enhancements for Sbas	36.355, 6.5.2.9	Rel-15	pc_SBAS_ADR_ENH	Requires support of pc_SBAS_ADR
15	Support of ADR enhancements for Qzss	36.355, 6.5.2.9	Rel-15	pc_QZSS_ADR_ENH	Requires support of pc_QZSS_ADR
16	Support of ADR enhancements for Galileo	36.355, 6.5.2.9	Rel-15	pc_GALILEO_ADR_ENH	Requires support of pc_GALILEO_ADR
17	Support of ADR enhancements for Glonass	36.355, 6.5.2.9	Rel-15	pc_GLONASS_ADR_ENH	Requires support of pc_GLONASS_ADR
18	Support of ADR enhancements for BDS	36.355, 6.5.2.9	Rel-15	pc_BDS_ADR_ENH	Requires support of pc_BDS _ADR
19	Support of High accuracy GNSS modes for Gps	36.355, 6.5.2.9	Rel-15	pc_A_GPS_HA	
20	Support of High accuracy GNSS modes for Sbas	36.355, 6.5.2.9	Rel-15	pc_SBAS_HA	
21	Support of High accuracy GNSS modes for Qzss	36.355, 6.5.2.9	Rel-15	pc_QZSS_HA	
22	Support of High accuracy GNSS modes for Galileo	36.355, 6.5.2.9	Rel-15	pc_GALILEO_HA	
23	Support of High accuracy GNSS modes for Glonass	36.355, 6.5.2.9	Rel-15	pc_GLONASS_HA	
24	Support of High accuracy GNSS modes for BDS	36.355, 6.5.2.9	Rel-15	pc_BDS_HA	

Table A.4.3-7: GNSS Assistance Data Support

Item	GNSS Assistance Data Support	Ref.	Release	Mnemonic	Comments
1	Gnss-ReferenceTimeSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_RefTimeSup	
2	Gnss-ReferenceLocationSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_RefLocSup	
3	Gnss-IonosphericModelSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_IonoModSup	
4	Gnss-EarthOrientationParametersSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_EOPSup	
5	Gnss-TimeModelsSupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Gps	
6	Gnss-TimeModelsSupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Sbas	
7	Gnss-TimeModelsSupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Qzss	
8	Gnss-TimeModelsSupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_TimeModSup_Galileo	
9	Gnss-TimeModelsSupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Glonass	
10	Gnss-DifferentialCorrectionsSupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Gps	
11	Gnss-DifferentialCorrectionsSupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Sbas	
12	Gnss-DifferentialCorrectionsSupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Qzss	
13	Gnss-DifferentialCorrectionsSupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_DGNSS_Sup_Galileo	
14	Gnss-DifferentialCorrectionsSupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Glonass	
15	Gnss-NavigationModelSupport for gps (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Gps	
16	Gnss-NavigationModelSupport for sbas (Model-5)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Sbas	
17	Gnss-NavigationModelSupport for qzss (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Qzss	
18	Gnss-NavigationModelSupport for galileo (Model-1)	36.355, 6.5.2.9	Rel-12	pc_GNSS_NavModSup_Galileo	
19	Gnss-NavigationModelSupport for glonass (Model-4)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Glonass	
20	Gnss-RealTimeIntegritySupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Gps	
21	Gnss-RealTimeIntegritySupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Sbas	
22	Gnss-RealTimeIntegritySupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Qzss	
23	Gnss-RealTimeIntegritySupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_RTISup_Galileo	
24	Gnss-RealTimeIntegritySupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Glonass	
25	Gnss-DataBitAssistanceSupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Gps	
26	Gnss-DataBitAssistanceSupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Sbas	
27	Gnss-DataBitAssistanceSupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Qzss	
28	Gnss-DataBitAssistanceSupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_DataBitsSup_Galileo	
29	Gnss-DataBitAssistanceSupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Glonass	
30	Gnss-AcquisitionAssistanceSupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Gps	
31	Gnss-AcquisitionAssistanceSupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Sbas	

32	Gnss-AcquisitionAssistanceSupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Qzss	
33	Gnss-AcquisitionAssistanceSupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_AcquAssistSup_Galileo	
34	Gnss-AcquisitionAssistanceSupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Glonass	
35	Gnss-AlmanacSupport for gps (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Gps	
36	Gnss-AlmanacSupport for sbas (Model-6)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Sbas	
37	Gnss-AlmanacSupport for qzss (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Qzss	
38	Gnss-AlmanacSupport for galileo (Model-1)	36.355, 6.5.2.9	Rel-12	pc_GNSS_AlmanacSup_Galileo	
39	Gnss-AlmanacSupport for glonass (Model-5)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Glonass	
40	Gnss-UTC-ModelSupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Gps	
41	Gnss-UTC-ModelSupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Sbas	
42	Gnss-UTC-ModelSupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Qzss	
43	Gnss-UTC-ModelSupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_UTCModSup_Galileo	
44	Gnss-UTC-ModelSupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Glonass	
45	Gnss-AuxiliaryInformationSupport for gps	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Gps	
46	Gnss-AuxiliaryInformationSupport for sbas	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Sbas	
47	Gnss-AuxiliaryInformationSupport for qzss	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Qzss	
48	Gnss-AuxiliaryInformationSupport for galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_AuxInfoSup_Galileo	
49	Gnss-AuxiliaryInformationSupport for glonass	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Glonass	
50	Gnss-TimeModelsSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_TimeModSup_BDS	
51	Gnss-DifferentialCorrectionsSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_DGNSS_Sup_BDS	
52	Gnss-NavigationModelSupport for BDS (Model-6)	36.355, 6.5.2.9	Rel-12	pc_GNSS_NavModSup_BDS	
53	Gnss-RealTimeIntegritySupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_RTISup_BDS	
54	Gnss-DataBitAssistanceSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_DataBitsSup_BDS	
55	Gnss-AcquisitionAssistanceSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_AcquAssistSup_BDS	
56	Gnss-AlmanacSupport for BDS (Model-7)	36.355, 6.5.2.9	Rel-12	pc_GNSS_AlmanacSup_BDS	
57	Gnss-UTC-ModelSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_UTCModSup_BDS	
58	Gnss-AuxiliaryInformationSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_AuxInfoSup_BDS	
59	bds-DifferentialCorrectionsSupport	36.355, 6.5.2.9	Rel-12	pc_BDS_DiffCorr	
60	bds-GridModelSupport	36.355, 6.5.2.9	Rel-12	pc_BDS_GridMod	
61	Support of GNSS-AcquisitionAssistance for GPS L1 C/A	36.355, 6.5.2.2	Rel-9	pc_GNSS_AcquAssist_GPS_L1CA	
62	Support of GNSS-AcquisitionAssistance for GPS L5	36.355, 6.5.2.2	Rel-9	pc_GNSS_AcquAssist_GPS_L5	
63	Support of GNSS-AcquisitionAssistance for Galileo E1	36.355, 6.5.2.2	Rel-12	pc_GNSS_AcquAssist_Galileo_E1	
64	Support of GNSS-AcquisitionAssistance for Galileo E5A	36.355, 6.5.2.2	Rel-12	pc_GNSS_AcquAssist_Galileo_E5A	
65	Gnss-RTK-ReferenceStationInfoSupport-r15 (Common assistance data)	36.355, 6.5.2.9	Rel-15	pc_GNSS_RTK_RefStationInfo	

66	Gnss-RTK-AuxiliaryStationDataSupport-r15 (Common assistance data)	36.355, 6.5.2.9	Rel-15	pc_GNSS_RTK_AuxStationInfo	
67	Gnss-RTK-ObservationsSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Gps	
68	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_Correction Differences_Gps	
69	Gnss-RTK-ResidualsSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Gps	
70	Gnss-RTK-FKP-GradientsSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_ Gps	
71	Gnss-SSR-OrbitCorrectionsSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrec tions_Gps	
72	Gnss-SSR-ClockCorrectionsSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorre ctions_Gps	
73	Gnss-SSR-CodeBiasSupport-r15 for GPS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_ Gps	
74	Glo-RTK-BiasInformationSupport-r15	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_BiasInfo_Glonass	
75	gnss-RTK-ObservationsSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Glonass	
76	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_Correction Differences_Glonass	
77	Gnss-RTK-ResidualsSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Glona ss	
78	Gnss-RTK-FKP-GradientsSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_ Glonass	
79	Gnss-SSR-OrbitCorrectionsSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrec tions_Glonass	
80	Gnss-SSR-ClockCorrectionsSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorre ctions_Glonass	
81	Gnss-SSR-CodeBiasSupport-r15 for GLONASS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_ Glonass	
82	Gnss-RTK-ObservationsSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Galileo	
83	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_Correction Differences_Galileo	
84	Gnss-RTK-ResidualsSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Galile o	
85	Gnss-RTK-FKP-GradientsSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_ Galileo	
86	Gnss-SSR-OrbitCorrectionsSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrec tions_Galileo	
87	Gnss-SSR-ClockCorrectionsSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorre ctions_Galileo	
88	Gnss-SSR-CodeBiasSupport-r15 for GALILEO	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_ Galileo	
89	Gnss-RTK-ObservationsSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Bds	
90	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_Correction Differences_Bds	
91	Gnss-RTK-ResidualsSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Bds	
92	Gnss-RTK-FKP-GradientsSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_ Bds	

93	Gnss-SSR-OrbitCorrectionsSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrections_Bds	
94	Gnss-SSR-ClockCorrectionsSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorrections_Bds	
95	Gnss-SSR-CodeBiasSupport-r15 for BDS	36.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_Bds	
96	Bds-DifferentialCorrectionsSupport-r12	36.355, 6.5.2.10	Rel-12	pc_GNSS_DifferentialCorrections_Bds	
97	Bds-GridModelSupport-r12	36.355, 6.5.2.10	Rel-12	pc_GNSS_GridModel_Bds	

Table A.4.3-8: Location Coordinate Types

Item	Location Coordinate Types	Ref.	Release	Mnemonic	Comments
1	Ellipsoid Point Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint	
2	Ellipsoid Point With Uncertainty Circle Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint UncertCircle	
3	Ellipsoid Point With Uncertainty Ellipse Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint UncertEllip	
4	Polygon Support	36.355, 6.4.1	Rel-9	pc_GNSS_Polygon	
5	Ellipsoid Point With Altitude Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint Alt	
6	Ellipsoid Point With Altitude And Uncertainty Ellipsoid Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint AltUncertEllip	
7	Ellipsoid Arc Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipArc	
8	High Accuracy Ellipsoid Point With Uncertainty Ellipse-r15	36.355, 6.4.1	Rel-15	pc_GNSS_HA_EllipPointUncertCircle	
9	High Accuracy Ellipsoid Point With Altitude And Uncertainty Ellipsoid-r15	36.355, 6.4.1	Rel-15	pc_GNSS_HA_EllipPointAltUncertEllip	

Table A.4.3-9: Velocity Types

Item	Velocity Types	Ref.	Release	Mnemonic	Comments
1	Horizontal Velocity Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVel	
2	Horizontal With Vertical Velocity Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVVel	
3	Horizontal Velocity With Uncertainty Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVelUncert	
4	Horizontal With Vertical Velocity And Uncertainty Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVVelUncert	

A.4.4 Additional information

Table A.4.4-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of sending of acknowledgement request in LPP Provide Capabilities message.	36.355, 4.3.3	Rel-9	pc_LPP_SendingACK_ProvideCapabilities	
2	Support of CE mode A	36.306, 4.3.29.1	Rel-13	pc_CEmodeA	Mandatory for Category M1 UE
3	Support of CE mode B	36.306, 4.3.29.2	Rel-13	pc_CEmodeB	
4	Support of “Voice Domain Preference for E-UTRAN”	24.301	Rel-9	pc_VoLTE	VoLTE Capable UE
5	Support of LPP message segmentation	36.355, 4.3.5	Rel-14	pc_LPP_MsgSegmentation	

Table A.4.4-2: Additional UE radio access capabilities (Mandatory for Rel-11 and onward)

Item	Additional capabilities	Ref.	Release	Status (Note 1)	Support Yes/No (Note 2)	Mnemonic	Comments
1	UE supports CRS interference handling	36.306, 4.3.4.15	Rel-11	O.01		pc_CRS_Interference	This is a Rel-11 Mandatory feature
2	UE supports ss-CCH interference handling	36.306, 4.3.4.20	Rel-11	O.01		pc_ssCCH_Interference	This is a Rel-11 Mandatory feature

Note 1: From Rel-11 onwards 3GPP TSG RAN has introduced the following principles (TS 36.306 [13] clause 4): 'For optional features, the UE radio access capability parameter indicates whether the feature has been implemented and successfully tested. For mandatory features with the UE radio access capability parameter, the parameter indicates whether the feature has been successfully tested.'
Reflecting this situation, in the present table the status for Mandatory features would be indicated as conditional Optional (O.xx) until IOT testing availability is ensured. The decision when IOT testing availability can be considered ensured is made by 3GPP TSG RAN. After the 3GPP TSG RAN decision that IOT testing is available, the status of the capability parameter will be changed to Mandatory (M) and the release from which this requirement apply would be explicitly stated.
Note 2: If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release.

Table A.4.4-3: Additional UE radio access capabilities conditions

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

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
36.571-3							
2010-08	RAN5#48	R5-104317	-	-	Initial version		0.0.0
2011-02	RAN5#50	R5-110253	-	-	Addition of test case applicability	0.0.0	0.1.0
2011-08	RAN5#52	R5-113273	-	-	Addition of E-CID and OTDOA performance test case applicability	0.1.0	
		R5-113139	-	-	Addition of UE Network Capability test case		
		R5-113773	-	-	Addition of Notification test cases		
		R5-113148	-	-	Addition of Position Capability Transfer test case		1.0.0
37.571-3							
2011-11	RAN5#53	R5-115253	-	-	Creation of 37.571-3 based on 36.571-3 v1.0.0, 34.123-2 v9.6.0, 34.171 v9.3.0 and 34.172 va.1.0	-	1.0.0
-	-	R5-115254	-	-	Corrections to the 37.571-3 baseline text	-	-
-	-	R5-115255	-	-	Addition of missing test case applicability to the 37.571-3 baseline text	-	-
-	-	R5-115256	-	-	Applicable Release for UMTS A-GNSS Test Cases in 37.571-3 baseline text	-	2.0.0
2011-12	RAN#54	-	-	-	Moved to Rel-9 with editorial changes only.	2.0.0	9.0.0
2012-03	RAN#55	R5-120365	0001	-	Addition of missing test case applicability for test cases 7.3.4.1, 7.3.4.2, 7.3.4.3, and 7.3.4.4	9.0.0	9.1.0
2012-03	RAN#55	R5-120529	0002	-	Remove redundant mnemonics	9.0.0	9.1.0
2012-06	RAN#56	-	-	-	Upgraded to v10.0.0 with no change.	9.1.0	10.0.0
2012-09	RAN#57	R5-123689	0003	-	Correction of sub-test names and PICS names	10.0.0	10.1.0
2012-09	RAN#57	R5-123689	0003	-	Addition of missing sub test cases name change	10.1.0	10.1.1
2012-12	RAN#58	R5-125119	0004	-	Add new PICS and post-fix for conditions	10.1.1	10.2.0
2012-12	RAN#58	R5-124121	0006	-	Applicabilities for new test cases 10.1 - 10.4 for RSTD for Carrier Aggregation	10.1.1	10.2.0
2013-03	RAN#59	R5-130594	0007	-	Correction of applicability for TC 7.3.2.3	10.2.0	10.3.0
2013-04	-	-	-	-	fix of history table	10.3.0	10.3.1
2013-06	RAN#60	R5-131305	0008	-	Correction of applicability for LTE UE Positioning test cases	10.3.1	10.4.0
2013-06	RAN#60	R5-131328	0009	-	Applicability for new test case 7.5.1 for inter-frequency RSTD measurement indication procedure	10.3.1	10.4.0
2013-06	RAN#60	R5-131995	0010	-	Applicabilities for new TDD inter-frequency tests 9.2.2 and 9.2.5	10.3.1	10.4.0
2013-06	RAN#60	R5-131996	0011	-	Addition of the Applicability for FDD-FDD inter-frequency RSTD Test Cases	10.3.1	10.4.0
2013-06	RAN#60	R5-132011	0012	-	Corrections and clarifications to Applicabilities tables	10.3.1	10.4.0
2013-09	RAN#61	R5-133633	0013	-	Correction to 7.3.3.1	10.4.0	10.5.0
2013-12	RAN#62	R5-134203	0014	-	Corrections to Applicabilities C12es and C13es	10.5.0	10.6.0
2013-12	RAN#62	R5-134204	0015	-	Addition of Applicabilities for 9.2.1 - 9.2.5	10.5.0	10.6.0
2013-12	RAN#62	R5-134911	0016	-	Change Applicability of test 7.3.5.1	10.5.0	10.6.0
2013-12	RAN#62	R5-134981	0017	-	Applicabilities for new tests 10.1a, 10.2a, 10.3a and 10.4a	10.5.0	10.6.0
2014-06	RAN#64	R5-142102	0018	-	Correction to test case title in the Applicability Table 4-1 and Table 4-3	10.6.0	10.7.0
2014-06	RAN#64	R5-142406	0019	-	Correction of conditions of C26es and C27es.	10.6.0	10.7.0
2014-09	RAN#65	-	-	-	Upgraded to v11.0.0 with no change	10.7.0	11.0.0
2014-09	RAN#65	R5-144843	0020	-	Applicability for new 10+5 and 5+5 RSTD related test cases	11.0.0	12.0.0
2014-12	RAN#66	R5-145263	0021	-	Applicability table update for RRM CA test cases in clause 10 to avoid redundant testing	12.0.0	12.1.0
2014-12	RAN#66	R5-145388	0022	-	Addition of Beidou	12.0.0	12.1.0
2014-12	RAN#66	R5-145843	0023	-	Introduction of feICIC applicability statement for UE Rx-TX Time Difference test cases	12.0.0	12.1.0
2014-12	RAN#66	R5-145894	0024	-	Add BDS testing contents in TS37.571-3	12.0.0	12.1.0
2015-03	RAN#67	R5-150075	0025	-	Remove incorrect note from CA RSTD accuracy tests	12.1.0	12.2.0
2015-03	RAN#67	R5-150608	0026	-	Typo in name of parameter pc_BDS_B1I	12.1.0	12.2.0
2015-03	RAN#67	R5-150838	0027	-	Missing Abbreviations in Specification	12.1.0	12.2.0
2015-03	RAN#67	R5-150889	0028	-	Missing Fine Time Assistance Conditions	12.1.0	12.2.0
2015-03	RAN#67	R5-150890	0029	-	Applicability for new 20+10MHz RSTD test cases	12.1.0	12.2.0
2015-06	RAN#68	R5-151087	0034	-	RSTD accuracy changes for Rel-12	12.2.0	12.3.0
2015-06	RAN#68	R5-151090	0035	-	Missing applicability of test case executions in Table 4-3 for E-UTRA pc_eTDD tests	12.2.0	12.3.0

2015-06	RAN#68	R5-151985	0033	1	Change Galileo Release Applicability	12.2.0	12.3.0
2015-06	RAN#68	R5-152034	0031	1	Change Galileo Release Applicability	12.2.0	12.3.0
2015-09	RAN#69	R5-153152	0036	-	Incorrect ICS information in Table 4-7	12.3.0	12.4.0
2015-09	RAN#69	R5-153335	0037	-	Change BDS Applicability for LCR TDD	12.3.0	12.4.0
2015-09	RAN#69	R5-153339	0038	-	Restoration of condition C21es	12.3.0	12.4.0
2015-09	RAN#69	R5-153941	0039	1	Adding applicability statements for ECID eICIC test cases 8.1.3 and 8.1.4	12.3.0	12.4.0
2015-09	RAN#69	-	-	-	update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC	12.3.0	12.4.0
2015-12	RAN#70	R5-155137	0044	-	Updating applicability statements for ECID feICIC test cases 8.1.5 and 8.1.6	12.4.0	12.5.0
2015-12	RAN#70	R5-155876	0042	1	Applicabilities for two new 3 DL CA RSTD Measurement Reporting Delay test cases	12.4.0	12.5.0
2015-12	RAN#70	R5-155945	0047	1	Addition of release RAT column to applicability tables 4-7	12.4.0	12.5.0
2015-12	RAN#70	R5-156010	0045	1	Addition of release RAT column to applicability table 4-3	12.4.0	12.5.0
2015-12	RAN#70	R5-156112	0043	1	Applicabilities for two new 3 DL CA RSTD Measurement Accuracy test cases	12.4.0	12.5.0
2016-03	RAN#71	R5-160044	0048	-	Releases for the new OTDOA tests 10.5 to 10.8 are missing	12.5.0	12.6.0
2016-03	RAN#71	R5-160045	0049	-	Correct TC Title typo errors in Table 4-3	12.5.0	12.6.0
2016-06	RAN#72	R5-163036	0052	1	Editorial correction of Positioning PICS Mnemonic	12.6.0	12.7.0
2016-09	RAN#73	R5-165128	0053	-	Updates to the UE Rx – Tx Time Difference tests for Rel-12 onwards	12.7.0	12.8.0
2016-09	RAN#73	R5-165352	0054	-	Applicability of new A-GPS and A-Galileo RF test conditions missing for UE Based GNSS	12.7.0	12.8.0
2016-09	RAN#73	R5-165353	0055	-	Applicability of new A-GPS and A-Galileo signaling test conditions missing for UE Based GNSS	12.7.0	12.8.0
2016-09	RAN#73	R5-165997	0057	1	Introduction of Indoor Positioning enhancements (MBS) (protocol)	12.8.0	13.0.0
2016-09	RAN#73	R5-166150	0056	1	Introduction of Indoor Positioning enhancements (MBS) (rf)	12.8.0	13.0.0
2016-12	RAN#74	R5-168062	0058	-	Change of applicability of UE Rx-Tx tests for TDD	13.0.0	13.1.0
2016-12	RAN#74	R5-168064	0059	-	Change of applicability of ECID tests for TDD	13.0.0	13.1.0
2016-12	RAN#74	R5-168381	0061	-	Modification to note 1 in table A.4.3-1 to remove abiguity	13.0.0	13.1.0
2016-12	RAN#74	R5-169104	0060	1	Clarification of applicability of TC 7.3.3.1 and 7.3.3.1A	13.0.0	13.1.0
2016-12	RAN#74	R5-169105	0062	1	Add WLAN signaling sub-test and references for Indoor Positioning	13.0.0	13.1.0
2016-12	RAN#74	R5-169106	0063	1	Add BT signaling sub-test and references for Indoor Positioning	13.0.0	13.1.0
2016-12	RAN#74	R5-169107	0064	1	Add Sensor signaling sub-test and references for Indoor Positioning	13.0.0	13.1.0
2017-03	RAN#75	R5-170669	0065	-	Maintenance of 37.571-3 Table 4-7 for XML conversion	13.1.0	13.2.0
2017-03	RAN#75	R5-170737	0066	-	Remove Bluetooth Abbreviations	13.1.0	13.2.0
2017-03	RAN#75	R5-170738	0067	-	Correct applicability of tests clause reference	13.1.0	13.2.0
2017-03	RAN#75	-	-	-	Administrative release upgrade to match the release of 3GPP TS 37.571-1 which was upgraded at RAN#74 to Rel-14 due to Rel-14 relevant CR(s)	13.2.0	14.0.0

2017-06	RAN#76	R5-172180	0071	-	Add new applicability conditions for GPS, GLONASS and BDS	14.0.0	14.1.0
2017-06	RAN#76	R5-172668	0073	-	Introduction of periodical reporting capability for GNSS	14.0.0	14.1.0
2017-06	RAN#76	R5-172965	0070	1	Merge GNSS sub-tests into one sub-test	14.0.0	14.1.0
2017-06	RAN#76	R5-172968	0075	1	Introduction of Conditions and Applicability for MBS Assistance Data Signalling Sub-tests	14.0.0	14.1.0
2017-06	RAN#76	R5-173365	0074	1	Introduction of Conditions and Applicability for MBS Assistance Data Measurement Test Cases	14.0.0	14.1.0
2017-06	RAN#76	-	-	-	The titles of 7.3.3.1A and B were corrected editorially to (Rel 13 only) and (Rel 14 onwards) in order to align with the actual TC Titles.	14.0.0	14.1.0
2017-09	RAN#77	R5-173865	0078	-	Editorial change to align MBS test case names with 37.571-2	14.1.0	14.2.0
2017-09	RAN#77	R5-173866	0079	-	Editorial change to align MBS test case names with 37.571-1	14.1.0	14.2.0
2017-09	RAN#77	R5-175120	0080	1	Editorial correction to Table 4-3 in 3GPP TS 37.571-3	14.1.0	14.2.0
2017-09	RAN#77	R5-175189	0077	1	Test case applicability for WLAN and BLE	14.1.0	14.2.0
2017-12	RAN#78	R5-177416	0081	1	Applicability changes for OTDOA/ECID 4Rx support and WLAN/BLE	14.2.0	14.3.0
2017-12	RAN#78	-	-	-	Administrative release upgrade to match the release of 3GPP TS 37.571-1 which was upgraded at RAN#78 to Rel-15 due to Rel-15 relevant CR(s)	14.3.0	15.0.0
2018-03	RAN#79	R5-180312	0083	-	Applicability of Cat1bis OTDOA tests	15.0.0	15.1.0
2018-03	RAN#79	R5-180313	0084	-	Applicability of feMTC OTDOA and ECID tests	15.0.0	15.1.0
2018-03	RAN#79	R5-180314	0085	-	Applicability of NB-IOT OTDOA tests	15.0.0	15.1.0
2018-03	RAN#79	R5-180586	0086	-	4Rx support for OTDOA 2CC - Applicability	15.0.0	15.1.0
2018-03	RAN#79	R5-180587	0087	-	4Rx support for OTDOA 3CC - Applicability	15.0.0	15.1.0
2018-03	RAN#79	R5-180878	0089	-	Update Applicability for Rel-14 Sensor Positioning Protocol Tests and Sub-Tests	15.0.0	15.1.0
2018-03	RAN#79	R5-181273	0088	1	Update Applicability for Rel-14 WLAN Positioning Protocol Tests and Sub-Tests	15.0.0	15.1.0
2018-06	RAN#80	R5-182220	0090	-	Applicability for new NB-IOT OTDOA tests	15.1.0	15.2.0
2018-06	RAN#80	R5-182281	0091	-	New ECID Cat1bis tests - Applicability	15.1.0	15.2.0
2018-06	RAN#80	R5-183850	0092	1	Applicability statement for A-GNSS min perf test cases for Cat M1	15.1.0	15.2.0
2018-06	RAN#80	R5-183851	0094	1	Corrections to C03-Xur and C04-Xur applicabilities	15.1.0	15.2.0
2018-09	RAN#81	R5-184038	0096	-	Addition of PICS for support of LPP message segmentation	15.2.0	15.3.0
2018-09	RAN#81	R5-184190	0098	-	Editorial - Updates for GNSS Signal Capabilities	15.2.0	15.3.0
2018-09	RAN#81	R5-185359	0099	-	Correction of the title for OTDOA IOT tests	15.2.0	15.3.0
2018-12	RAN#82	R5-186619	0100	-	Addition of applicabilities for two missing Minimum Performance triple-GNSS test cases	15.3.0	15.4.0
2018-12	RAN#82	R5-186620	0101	-	Correction to applicabilities of Modernized GPS for Minimum Performance test cases	15.3.0	15.4.0
2018-12	RAN#82	R5-186621	0102	-	Addition of Category NB2 information	15.3.0	15.4.0
2018-12	RAN#82	R5-186622	0103	-	Addition of PICs for support of Acquisition Assistance for Galileo E5A and GPS L5 signals	15.3.0	15.4.0
2018-12	RAN#82	R5-186623	0104	-	Addition of NR signalling background information	15.3.0	15.4.0

2018-12	RAN#82	R5-187465	0106	-	Editorial Changes for TS 37.571-3	15.3.0	15.4.0
2018-12	RAN#82	R5-188198	0105	2	Applicability for NR NSA Option 3 protocol tests	15.3.0	15.4.0
2019-03	RAN#83	R5-191126	0107	-	Addition of general NR information for minimum performance	15.4.0	15.5.0
2019-03	RAN#83	R5-192381	0108	1	Addition LPP Rel-15 missing PICS	15.4.0	15.5.0

History

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