ETSI TR 136 903 V17.1.0 (2023-07)

TECHNICAL REPORT

LTE;
Evolved Universal Terrestrial Radio Access (E-UTRA)
and Evolved Universal Terrestrial
Radio Access Network (E-UTRAN);
Derivation of test tolerances
for Radio Resource Management (RRM) conformance tests
(3GPP TR 36.903 version 17.1.0 Release 17)

Reference
RTR/TSGR-0536903vh10

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Contents

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x the first digit:

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y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

1 Scope

The present document specifies a general method used to derive Test Tolerances for Radio Resource Management tests, and establishes a system for relating the Test Tolerances to the measurement uncertainties of the Test System.

The test cases which have been analysed to determine Test Tolerances are included as .zip files.

The present document is applicable from Release 8 up to the release indicated on the front page of the present Terminal conformance specifications.

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] to [8] (void)

[9] 3GPP TR 36.903 Release 18: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Derivation of test tolerances for Radio Resource Management (RRM) conformance tests"

3 Definitions, symbols and abbreviations

Void

4 General Principles

The requirements of the present document are provided in 3GPP TR 36.903 Release 18 [9].

5 to 7 Void

Annex A to C: Void

Annex D:
Change History

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-02	RAN5#46	R5-072185	-	-	TR 36.903 Skeleton proposed for RAN5#46	-	0.0.1
2010-06	-	-	-	-	TR 36.903 update proposed	0.0.1	0.0.x
2010-08	RAN5#48	-	-	-	TR 36.903 update proposed	0.0.x	0.0.2
2010-08	RAN5#48	R5-104409	-	-	TR 36.903 update proposed including all docs agreed on RAN5#48	0.0.2	0.1.0
2010-09	-	-	-	-	Small editorial corrections	0.1.0	0.1.1
2010-09	RAN5#49	R5-106802	-	-	TR 36.903 update proposed including all docs agreed on RAN5#49	0.1.1	1.0.0
2010-12	RAN5#50	R5-101182	-	-	TR 36.903 v1.0.0 on Derivation of test tolerances for multi-cell RRM conformance tests (Approval)	1.0.0	8.0.0
2010-12	RAN5#50	-	-	-	Raised to v9.0.0 with no change	8.0.0	9.0.0
2011-09	RAN5#52	R5-113225	0001	-	Test Tolerance analysis for RRM test case 4.3.1.3	9.0.0	9.1.0
2011-09	RAN5#52	R5-113227	0002	-	RRM Test Tools agreed at RAN5#50 in TR 36.903	9.0.0	9.1.0
2011-09	RAN5#52	R5-113228	0003	-	RRM Test Tools agreed at RAN5#51 in TR 36.903	9.0.0	9.1.0
2011-09	RAN5#52	R5-113248	0004	-	Add Test Tolerance analysis for the inter RAT E-UTRAN handover test cases 5.2.1 and 5.2.2	9.0.0	9.1.0
2011-09	RAN5#52	R5-114008	0005	-	Add Test Tolerance analysis for E-UTRAN to UTRA TDD handover test case 5.2.4	9.0.0	9.1.0
2011-09	RAN5#52	R5-114010	0006	-	RRM Test Tools Updates agreed at RAN5#50 for TR 36.903	9.0.0	9.1.0
2011-09	RAN5#52	R5-114011	0007	-	Update Test Tolerance analysis for Test cases 8.x	9.0.0	9.1.0
2011-09	RAN5#52	R5-114012	0008	-	Test Tolerance analysis for TS36.521-3 FDD SON ANR test case 8.5.2	9.0.0	9.1.0
2011-09	RAN5#52	R5-114015	0009	-	Add Test Tolerance analysis for E-UTRAN FDD/TDD - UTRA FDD CPICH Ec/No absolute measurement accuracy test cases	9.0.0	9.1.0
2011-09	RAN5#52	R5-114017	0010	-	Add Test Tolerance analysis for E-UTRAN FDD- UTRAN TDD event triggered reporting under fading propagation conditions	9.0.0	9.1.0
2011-09	RAN5#52	R5-114018	0011	-	Update analysis for TC 8.3.3+8.4.3 in 36.903	9.0.0	9.1.0
2011-09	RAN5#52	R5-114020	0012	-	Add Uncertainties and TT analysis for TC 4.3.4.3 in 36.903	9.0.0	9.1.0
2011-09	RAN5#52	R5-114058	0013	-	Add Test Tolerance analysis for E-UTRAN to UTRA Cell Re-Selection test cases 4.3.4.1	9.0.0	9.1.0
2011-12	RAN5#53	R5-115149	0014	-	Add Inter-RAT test case groups in 36.903	9.1.0	9.2.0
2011-12	RAN5#53	R5-115825	0015	-	Test tolerances methodology for UE measurement procedures Inter-RAT event triggered reporting when DRX is used under fading test case 8.5.3 in TR 36.903	9.1.0	9.2.0
2011-12	RAN5#53	R5-115188	0016	-	Test Tolerance analysis for RRM test case 8.11.3	9.1.0	9.2.0
2011-12	RAN5#53	R5-115201	0017	-	Test Tolerance analysis for TS36.521-3 TDD SON ANR test case 8.7.3	9.1.0	9.2.0
2011-12	RAN5#53	R5-115402	0018	-	Test Tolerance analysis for RRM test case 4.3.3	9.1.0	9.2.0
2011-12	RAN5#53	R5-115788	0019	-	GCF Priority 2 - Add RRM Test Tolerance analysis for RRM test case 8.11.1 and 8.11.2	9.1.0	9.2.0
2011-12	RAN5#53	R5-115826	0020	-	Update of Test Tolerances analysis for ch.9 test cases	9.1.0	9.2.0
2011-12	RAN5#53	R5-115898	0021	-	Add test tolerance analysis for 6.1.3 and 6.1.4	9.1.0	9.2.0
2012-03	RAN5#54	R5-120108	0022	-	Test Tolerance analysis for TS36.521-3 TDD new CGI test cases 8.2.3 and 8.2.4	9.2.0	9.3.0
2012-03	RAN5#54	R5-120123	0023	-	Test Tolerance analysis for TS36.521-3 TDD Inter-frequency new CGI test cases 8.4.4 and 8.4.5.	9.2.0	9.3.0
2012-03	RAN5#54	R5-120246	0024	-	Update Test Tolerance analysis for RRM test cases 9.1.4.1 and 9.1.4.2	9.2.0	9.3.0
2012-03	RAN5#54	R5-120247	0025	-	Update RRM Test Tolerance analysis for TDD PRACH Test cases 6.2.3+6.2.4	9.2.0	9.3.0
2012-03	RAN5#54	R5-120248	0026	-	Add Test Tolerance analysis for RRM test case 8.11.4	9.2.0	9.3.0
2012-03	RAN5#54	R5-120906	0027	-	Add TT Analysis for TC 4.5.1.1 in 36.903	9.2.0	9.3.0
2012-03	RAN5#54	R5-120916	0028	-	Add TT Analysis for TC 5.3.1 in 36.903	9.2.0	9.3.0
2012-06	RAN5#55	R5-121246	0029	-	Grouping of positioning test cases in TR36.903	9.3.0	9.4.0
2012-06	RAN5#55	R5-121606	0030	-	Add Test Tolerance analysis for RRM test cases 4.2.4 and 4.2.5	9.3.0	9.4.0
2012-06	RAN5#55	R5-121608	0031	-	Add Test Tolerance analysis for RRM test cases 5.1.7 and 5.1.8	9.3.0	9.4.0

2012-06	RAN5#55	R5-121610	0032	-	Add Test Tolerance analysis for RRM test cases 8.14.1	9.3.0	9.4.0
2012-06	RAN5#55	R5-121612	0033	-	Add Test Tolerance analysis for RRM test cases 8.15.1	9.3.0	9.4.0
2012-06	RAN5#55	R5-121614	0034	-	Add Test Tolerance analysis for RRM test case 9.1.5.1	9.3.0	9.4.0
2012-06	RAN5#55	R5-121616	0035	-	Addition of Test Tolerance analysis for FDD - TDD Inter Frequency Relative Accuracy of RSRP test case 9.1.5.2	9.3.0	9.4.0
2012-06	RAN5#55	R5-121926	0036	-	TT 9.6.2 analysis for 36.903	9.3.0	9.4.0
2012-06	RAN5#55	R5-121928	0037	-	Resubmission of TT Analysis for TC 4.5.1.1 in 36.903	9.3.0	9.4.0
2012-06	RAN5#55	-	-	-	Added two missing TT Analysis zip files	9.4.0	9.4.1
2012-09	RAN5#56	R5-123213	0045	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 4.2.7 and 4.2.8	9.4.1	9.5.0
2012-09	RAN5#56	R5-123921	0038	-	Update Test Tolerance analysis for RRM test case 9.1.2.1	9.4.1	9.5.0
2012-09	RAN5#56	R5-123922	0039	-	Update Test Tolerance analysis for RRM test case 9.1.2.2	9.4.1	9.5.0

2012-09	RAN5#56	R5-123923	0040	-	Update Test Tolerance analysis for RRM test cases 9.1.3.1+9.1.4.1	9.4.1	9.5.0
2012-09	RAN5#56	R5-123924	0041	-	Update Test Tolerance analysis for RRM test cases 9.1.3.2+9.1.4.2	9.4.1	9.5.0
2012-09	RAN5#56	R5-123925	0042	-	Update Test Tolerance analysis for RRM test cases 9.2.1.1+9.2.2.1	9.4.1	9.5.0
2012-09	RAN5#56	R5-123926	0043	-	Update Test Tolerance analysis for RRM test cases 9.2.3.1+9.2.4.1	9.4.1	9.5.0
2012-09	RAN5#56	R5-123927	0044	-	Update Test Tolerance analysis for RRM test cases 9.2.3.2+9.2.4.2	9.4.1	9.5.0
2012-12	RAN5#57	R5-125558	0048	-	Addition of uncertainties and test tolerance definition and analysis for TC 9.2.4A.1	9.5.0	9.6.0
2012-12	RAN5#57	R5-125815	0049	-	Addition of uncertainties and test tolerance definition and analysis for TC 4.5.2.1	9.5.0	9.6.0
2012-12	RAN5#57	R5-125816	0050	-	Addition of uncertainties and test tolerance definition and analysis for TC 5.3.5	9.5.0	9.6.0
2012-12	RAN5#57	R5-125817	0051	-	Addition of uncertainties and test tolerance definition and analysis for TC 8.14.2	9.5.0	9.6.0
2012-12	RAN5#57	R5-125818	0052	-	Addition of uncertainties and test tolerance definition and analysis for TC 8.15.2	9.5.0	9.6.0
2012-12	RAN5#57	R5-125819	0053	-	Addition of uncertainties and test tolerance definition and analysis for TC 8.14.3 and 8.15.3	9.5.0	9.6.0
2012-12	RAN5#57	R5-125820	0054	-	Addition of uncertainties and test tolerance definition and analysis for TC 9.2.4A.2	9.5.0	9.6.0
2012-12	RAN5#57	R5-125356	0046	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 8.16.1 and 8.16.2	9.6.0	10.0.0
2012-12	RAN5#57	R5-125362	0047	-	Update TS 36.521-3 Test cases 5.2.3+5.2.6 Test Tolerance analyses for >3GHz	9.6.0	10.0.0
2013-03	RAN5#58	R5-130055	0055	-	Update TS 36.521-3 Test cases 7.1.1+7.1.2 Test Tolerance analyses	10.0.0	10.1.0
2013-03	RAN5#58	R5-130057	0056	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.1.6.1 and 9.1.7.1	10.0.0	10.1.0
2013-03	RAN5#58	R5-130059	0057	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.1.6.2 and 9.1.7.2	10.0.0	10.1.0
2013-03	RAN5#58	R5-130061	0058	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.2.5.1 and 9.2.6.1	10.0.0	10.1.0
2013-03	RAN5#58	R5-130063	0059	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.2.5.2 and 9.2.6.2	10.0.0	10.1.0
2013-03	RAN5#58	R5-130393	0061	-	Addition of test tolerance analysis for TCs 6.3.1+6.3.9	10.0.0	10.1.0
2013-03	RAN5#58	R5-130394	0062	-	Addition of test tolerance analysis for TCs 6.3.3+6.3.10	10.0.0	10.1.0
2013-03	RAN5#58	R5-130933	0063	-	Addition of uncertainties and test tolerance definition and analysis for TC 8.16.3 and TC 8.16.4	10.0.0	10.1.0
2013-06	RAN5#59	R5-131179	0077	-	RRM: Add test tolerance analyses for TCs 8.1.5 and 8.1.6	10.1.0	10.2.0
2013-06	RAN5#59	R5-131181	0065	-	RRM: Add test tolerance analyses for TCs 8.3.4 and 8.3.5	10.1.0	10.2.0
2013-06	RAN5#59	R5-131279	0066	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.2.7.1, 9.2.8.1	10.1.0	10.2.0
2013-06	RAN5#59	R5-131285	0067	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 8.11.5, 8.11.6	10.1.0	10.2.0

2013-06	RAN5#59	R5-131287	0068	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.5.1, 9.5.2	10.1.0	10.2.0
2013-06	RAN5#59	R5-131290	0069	-	Remove superseded analysis zip files	10.1.0	10.2.0
2013-06	RAN5#59	R5-131400	0070	-	Test Tolerance analyses for TS 36.521-3 test cases 5.2.4 and 5.2.5	10.1.0	10.2.0
2013-06	RAN5#59	R5-131401	0071	-	Test Tolerance analyses for TS 36.521-3 test case 8.5.4	10.1.0	10.2.0
2013-06	RAN5#59	R5-131402	0072	-	Test Tolerance analyses for TS 36.521-3 test cases 8.7.4 and 8.9.2	10.1.0	10.2.0
2013-06	RAN5#59	R5-131461	0073	-	Addition of test tolerance analysis for TCs 6.3.2+6.3.12	10.1.0	10.2.0
2013-06	RAN5#59	R5-131464	0074	-	Addition of test tolerance analysis for TCs 6.3.4+6.3.11	10.1.0	10.2.0
2013-06	RAN5#59	R5-131467	0075	-	Addition of test tolerance analysis for TCs 6.3.5+6.3.6+6.3.7+6.3.8	10.1.0	10.2.0
2013-09	RAN5#60	R5-133100	0078	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.1.8.1+9.1.9.1	10.2.0	10.3.0
2013-09	RAN5#60	R5-133102	0079	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.1.8.2+9.1.9.2	10.2.0	10.3.0
2013-09	RAN5#60	R5-133104	0080	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 9.1.3.x and 9.1.4.x	10.2.0	10.3.0
2013-09	RAN5#60	R5-133106	0081	-	Test Tolerances update for eICIC absolute RSRQ Test cases 9.2.7.1+9.2.8.1	10.2.0	10.3.0
2013-09	RAN5#60	R5-133219	0082	-	RRM: Test tolerance analyses for TCs 9.6.1 and 9.6.2	10.2.0	10.3.0
2013-09	RAN5#60	R5-133349	0083	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 9.1.1.1 and 9.1.2.1	10.2.0	10.3.0
2013-09	RAN5#60	R5-133374	0084	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 9.1.1 and 9.1.2	10.2.0	10.3.0
2013-09	RAN5#60	R5-133376	0085	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 9.1.3 and 9.1.4	10.2.0	10.3.0
2013-09	RAN5#60	R5-133843	0086	-	LBS Perf: Test tolerance analyses for TCs 8.1.1 and 8.1.2	10.2.0	10.3.0
2013-12	RAN5#61	R5-134144	0087	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.1.12.1 and 9.1.13.1	10.3.0	10.4.0
2013-12	RAN5#61	R5-134146	0088	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.1.12.2 and 9.1.13.2	10.3.0	10.4.0
2013-12	RAN5#61	R5-134148	0089	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.2.11.1 and 9.2.12.1	10.3.0	10.4.0
2013-12	RAN5#61	R5-134150	0090	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 9.2.11.2 and 9.2.12.2	10.3.0	10.4.0
2013-12	RAN5#61	R5-134220	0091	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.20.3	10.3.0	10.4.0
2013-12	RAN5#61	R5-134222	0092	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.2.9.1 and 9.2.10.1	10.3.0	10.4.0
2013-12	RAN5#61	R5-135015	0093	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 9.2.1 and 9.2.2	10.3.0	10.4.0
2013-12	RAN5#61	R5-135017	0094	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 9.2.4 and 9.2.5	10.3.0	10.4.0
2013-12	RAN5#61	-	-	-	Upgraded to Rel-11 with no change	10.4.0	11.0.0
2013-12	RAN5#61	R5-134215	0108	-	Add Test Tolerance analyses for TS 36.521-3 Test case 9.1.17.1	11.0.0	12.0.0

2013-12	RAN5#61	R5-134217	0109	-	Add Test Tolerance analyses for TS 36.521-3 Test case 9.2.17.1 and update 9.2.1.1+9.2.2.1	11.0.0	12.0.0
2013-12	RAN5#61	R5-134611	0102	-	Add Test Tolerance analyses for TS 36.521-3 Test case 7.2.3	11.0.0	12.0.0
2013-12	RAN5#61	R5-135050	0095	-	Add Test Tolerance analyses for TS 36.521-3 Test case 4.2.9 and update 4.2.1+4.2.2	11.0.0	12.0.0
2013-12	RAN5#61	R5-135051	0096	-	Add Test Tolerance analyses for TS 36.521-3 Test case 4.3.1.4 and update 4.3.1.2+4.3.3	11.0.0	12.0.0
2013-12	RAN5#61	R5-135052	0097	-	Add Test Tolerance analyses for TS 36.521-3 Test case 5.1.9 and update 5.1.1+5.1.2	11.0.0	12.0.0
2013-12	RAN5#61	R5-135053	0098	-	Add Test Tolerance analyses for TS 36.521-3 Test case 5.2.11 and update 5.2.1+5.2.2	11.0.0	12.0.0
2013-12	RAN5#61	R5-135054	0099	-	Add Test Tolerance analyses for TS 36.521-3 Test case 6.1.5 and update 6.1.1+6.1.3	11.0.0	12.0.0
2013-12	RAN5#61	R5-135055	0100	-	Add Test Tolerance analyses for TS 36.521-3 Test case 6.2.5	11.0.0	12.0.0
2013-12	RAN5#61	R5-135056	0101	-	Add Test Tolerance analyses for TS 36.521-3 Test case 6.2.6	11.0.0	12.0.0
2013-12	RAN5#61	R5-135058	0103	-	Add Test Tolerance analyses for TS 36.521-3 Test case 7.3.23	11.0.0	12.0.0
2013-12	RAN5#61	R5-135059	0104	-	Add Test Tolerance analyses for TS 36.521-3 Test case 7.3.25	11.0.0	12.0.0
2013-12	RAN5#61	R5-135060	0105	-	Add Test Tolerance analyses for TS 36.521-3 Test case 8.1.9	11.0.0	12.0.0
2013-12	RAN5#61	R5-135061	0106	-	Add Test Tolerance analyses for TS 36.521-3 Test case 8.1.10	11.0.0	12.0.0
2013-12	RAN5#61	R5-135062	0107	-	Add Test Tolerance analyses for TS 36.521-3 Test case 8.5.7	11.0.0	12.0.0
2014-03	RAN5#62	R5-140083	0110	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 8.20.1 and 8.20.2	12.0.0	12.1.0
2014-03	RAN5#62	R5-140233	0113	-	Add Test Tolerance analyses for TS 36.521-3 Test case 9.1.16.2 and update 9.1.1.2+9.1.2.2	12.0.0	12.1.0
2014-03	RAN5#62	R5-140235	0114	-	Add Test Tolerance analyses for TS 36.521-3 Test case 9.1.18.1 and update 9.2.3.1+9.2.4.1	12.0.0	12.1.0
2014-03	RAN5#62	R5-140237	0115	-	Add Test Tolerance analyses for TS 36.521-3 Test case 9.1.18.2 and update 9.2.3.2+9.2.4.2	12.0.0	12.1.0
2014-03	RAN5#62	R5-140239	0116	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.20.4	12.0.0	12.1.0
2014-03	RAN5#62	R5-140288	0118	-	Addition of test tolerance analysis for TC 7.3.24	12.0.0	12.1.0
2014-03	RAN5#62	R5-140292	0119	-	Addition of test tolerance analysis for TC 9.1.17.2	12.0.0	12.1.0
2014-03	RAN5#62	R5-140294	0120	-	Addition of test tolerance analysis for TC 9.3.3	12.0.0	12.1.0
2014-03	RAN5#62	R5-140296	0121	-	Addition of test tolerance analysis for TC 9.4.3	12.0.0	12.1.0
2014-03	RAN5#62	R5-140864	0122	-	Addition of test tolerance analysis for TC 9.1.16.1	12.0.0	12.1.0
2014-03	RAN5#62	R5-141051	0117	-	Addition of test tolerance analysis for TC 7.1.5	12.0.0	12.1.0
2014-06	RAN5#63	R5-142373	0123	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 9.1.8.1+9.1.9.1	12.1.0	12.2.0
2014-06	RAN5#63	R5-142377	0124	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 9.1.8.2+9.1.9.2	12.1.0	12.2.0

2014-06	RAN5#63	R5-142381	0125	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 9.2.7.1+9.2.8.1	12.1.0	12.2.0
2014-06	RAN5#63	R5-142545	0126	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 8.1.7 and 8.2.5	12.1.0	12.2.0
2014-06	RAN5#63	R5-142552	0127	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 7.3.11,7.3.12,7.3.15 and 7.3.16	12.1.0	12.2.0
2014-06	RAN5#63	R5-142712	0128	-	Test Tolerance analysis for eICIC RRM TC 9.1.10.1, 9.1.11.1	12.1.0	12.2.0
2014-06	RAN5#63	R5-142751	0129	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 9.2.9.1+9.2.10.1	12.1.0	12.2.0
2014-06	RAN5#63	R5-142763	0130	-	Addition of test tolerance analysis for 36.521-3 test case 9.1.10.2, 9.1.11.2	12.1.0	12.2.0
2014-06	RAN5#63	R5-143021	0131	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 7.3.9,7.3.10,7.3.13 and 7.3.14	12.1.0	12.2.0
2014-09	RAN5#64	R5-144126	0132	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 8.16.5 and 8.16.6	12.2.0	12.3.0
2014-09	RAN5#64	R5-144128	0133	-	Add Test Tolerance analyses for TS 36.521-3 Test cases 8.16.7 and 8.16.8	12.2.0	12.3.0
2014-09	RAN5#64	R5-144144	0134	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3 and 10.4	12.2.0	12.3.0
2014-09	RAN5#64	R5-144146	0135	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3A and 10.4A	12.2.0	12.3.0
2014-09	RAN5#64	R5-144290	0136	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.3.6	12.2.0	12.3.0
2014-09	RAN5#64	R5-144292	0137	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.5.6	12.2.0	12.3.0
2014-09	RAN5#64	R5-144294	0138	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 8.3.3+8.4.3	12.2.0	12.3.0
2014-09	RAN5#64	R5-144834	0139	-	Addition of test tolerance analysis for 36.521-3 test case 9.4.1, 9.4.2 and 9.4.3	12.2.0	12.3.0
2014-12	RAN5#65	R5-145167	0140	-	Update Test Tolerance Analyses for TS 37.571-1 Test Cases 9.1.1 and 9.1.2	12.3.0	12.4.0
2014-12	RAN5#65	R5-145168	0141	-	Update Test Tolerance Analyses for TS 37.571-1 Test Cases 9.2.1 and 9.2.2	12.3.0	12.4.0
2014-12	RAN5#65	R5-145298	0142	-	Update Test Tolerance analyses for TS 36.521-3 Test case 8.5.3	12.3.0	12.4.0
2014-12	RAN5#65	R5-145300	0143	-	Add Test Tolerance analysis for feICIC RSRQ absolute accuracy Test cases	12.3.0	12.4.0
2014-12	RAN5#65	R5-145302	0144	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.2.21.1 and 9.2.22.1	12.3.0	12.4.0
2014-12	RAN5#65	R5-145304	0145	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.2.21.2 and 9.2.22.2	12.3.0	12.4.0
2014-12	RAN5#65	R5-145321	0146	-	Add Test Tolerance analysis for TS 36.521-3 feICIC test cases 9.1.14.1 and 9.1.15.1	12.3.0	12.4.0
2014-12	RAN5#65	R5-145323	0147	-	Add Test Tolerance analysis for TS 36.521-3 feICIC test cases 9.1.14.2 and 9.1.15.2	12.3.0	12.4.0
2014-12	RAN5#65	R5-145828	0148	-	Test Tolerance Analysis for TS 37.571-1 TC 8.1.5+8.1.6	12.3.0	12.4.0
2014-12	RAN5#65	R5-145829	0149	-	Add Test Tolerance analysis for TS 36.521-3 feICIC test cases 7.3.17 and 7.3.18	12.3.0	12.4.0

2014-12	RAN5#65	R5-145830	0150	-	Add Test Tolerance analysis for TS 36.521-3 feICIC test cases 7.3.19, 7.3.20, 7.3.21 and 7.3.22	12.3.0	12.4.0
2014-12	RAN5#65	R5-145924	0151	-	Test Tolerance Analysis for TS 36.521-3 TC 8.1.8+8.2.6	12.3.0	12.4.0
2015-03	RAN5#66	R5-150078	0152	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.1 and 10.2	12.4.0	12.5.0
2015-03	RAN5#66	R5-150079	0153	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.1A and 10.2A	12.4.0	12.5.0
2015-03	RAN5#66	R5-150080	0154	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.1B and 10.2B	12.4.0	12.5.0
2015-03	RAN5#66	R5-150081	0155	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.1C and 10.2C	12.4.0	12.5.0
2015-03	RAN5#66	R5-150083	0156	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3B and 10.4B	12.4.0	12.5.0
2015-03	RAN5#66	R5-150084	0157	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3C and 10.4C	12.4.0	12.5.0
2015-03	RAN5#66	R5-150219	0158	-	Update Test Tolerance Analysis for TS 36.521-3 TC 4.3.1.3	12.4.0	12.5.0
2015-03	RAN5#66	R5-150221	0159	-	Update Test Tolerance Analysis for TS 36.521-3 TC 4.3.4.3	12.4.0	12.5.0
2015-03	RAN5#66	R5-150223	0160	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.5.2	12.4.0	12.5.0
2015-03	RAN5#66	R5-150225	0161	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.7.3	12.4.0	12.5.0
2015-03	RAN5#66	R5-150227	0162	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.9.1	12.4.0	12.5.0
2015-03	RAN5#66	R5-150229	0163	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.8.1+8.10.1	12.4.0	12.5.0
2015-03	RAN5#66	R5-150231	0164	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.8.2+8.10.2	12.4.0	12.5.0
2015-03	RAN5#66	R5-150293	0165	-	Add Test Tolerance analysis for TCs 8.16.9+8.16.10 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150305	0166	-	Add Test Tolerance analysis for TCs 8.16.11+8.16.12 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150307	0167	-	Add Test Tolerance analysis for TCs 8.16.13+8.16.14 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150309	0168	-	Add Test Tolerance analysis for TCs 8.16.15+8.16.16 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150311	0169	-	Add Test Tolerance analysis for TCs 9.1.18.1+9.1.19.1 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150313	0170	-	Add Test Tolerance analysis for TCs 9.1.18.2+9.1.19.2 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150315	0171	-	Add Test Tolerance analysis for TCs 9.1.20.1+9.1.21.1 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150317	0172	-	Add Test Tolerance analysis for TCs 9.1.20.2+9.1.21.2 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150319	0173	-	Add Test Tolerance analysis for TCs 9.2.23.1+9.2.24.1 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150325	0174	-	Add Test Tolerance analysis for TCs 9.2.23.2+9.2.24.2 36.903 CR	12.4.0	12.5.0
2015-03	RAN5#66	R5-150853	0175	-	Update Test Tolerance analyses for TS 36.521-3 Test case 5.1.5	12.4.0	12.5.0

2015-03	RAN5#66	R5-150854	0176	-	Update Test Tolerance analyses for TS 36.521-3 Test case 5.1.6	12.4.0	12.5.0
2015-03	RAN5#66	R5-150855	0177	-	Update Test Tolerance analyses for TS 36.521-3 Test case 5.2.3, 5.2.6	12.4.0	12.5.0
2015-06	RAN5#67	R5-151078	0178	-	Update Test Tolerance Analyses for TS 37.571-1 Test Cases 9.1.3 and 9.1.4	12.5.0	12.6.0
2015-06	RAN5#67	R5-151079	0179	-	Update Test Tolerance Analyses for TS 37.571-1 Test Cases 9.2.4 and 9.2.5	12.5.0	12.6.0
2015-06	RAN5#67	R5-151080	0180	-	Update Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3 and 10.4	12.5.0	12.6.0
2015-06	RAN5#67	R5-151081	0181	-	Update Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3A and 10.4A	12.5.0	12.6.0
2015-06	RAN5#67	R5-151082	0182	-	Add Test Tolerance Analysis for TS 37.571-1 Test Case 10.2D	12.5.0	12.6.0
2015-06	RAN5#67	R5-151084	0183	-	Add Test Tolerance Analysis for TS 37.571-1 Test Case 10.4D	12.5.0	12.6.0
2015-06	RAN5#67	R5-151132	0184	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.9.1.1 and 9.9.2.1	12.5.0	12.6.0
2015-06	RAN5#67	R5-151134	0185	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.9.1.2 and 9.9.2.2	12.5.0	12.6.0
2015-06	RAN5#67	R5-151263	0186	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.3.1+8.3.2+8.14.1+8.14.2	12.5.0	12.6.0
2015-06	RAN5#67	R5-151264	0187	-	Update Test Tolerance Analysis for TS 36.521-3 TC 8.4.1+8.4.2+8.15.1+8.15.2	12.5.0	12.6.0
2015-06	RAN5#67	R5-151265	0188	-	Update Test Tolerance Analysis for TS 36.521-3 TC 9.2.4A.1	12.5.0	12.6.0
2015-06	RAN5#67	R5-151266	0189	-	Update Test Tolerance Analysis for TS 36.521-3 TC 9.2.4A.2	12.5.0	12.6.0
2015-06	RAN5#67	R5-151541	0198	-	Add Test Tolerance analysis for TC 8.16.21 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151543	0199	-	Add Test Tolerance analysis for TC 8.16.22 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151545	0200	-	Add Test Tolerance analysis for TCs 9.1.24.1 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151547	0201	-	Add Test Tolerance analysis for TCs 9.1.24.1_1 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151549	0202	-	Add Test Tolerance analysis for TC 9.1.24.2 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151553	0204	-	Add Test Tolerance analysis for TC 9.2.27.2 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151837	0190	1	Update Test Tolerances and Test requirements for TS 36.521-3 Test cases 4.2.3, 4.2.4, 4.2.5, 4.2.6	12.5.0	12.6.0
2015-06	RAN5#67	R5-151839	0191	1	Update Test Tolerance analyses for TS 36.521-3 Test case 9.1.5.1	12.5.0	12.6.0
2015-06	RAN5#67	R5-151841	0192	1	Update Test Tolerances and Test requirements for TS 36.521-3 Test case 9.1.5.2	12.5.0	12.6.0
2015-06	RAN5#67	R5-151843	0194	1	Add Test Tolerance analysis for Rel-12 Improved RSRP accuracy Test cases	12.5.0	12.6.0
2015-06	RAN5#67	R5-151845	0195	1	Update Test Tolerance analysis for TCs 8.11.1+8.11.2 for frequencies above 3GHz 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151847	0196	1	Update Test Tolerance analysis for TC 8.11.3 for frequencies above 3GHz 36.903 CR	12.5.0	12.6.0

2015-06	RAN5#67	R5-151849	0197	1	Update Test Tolerance analysis for TC 8.11.4 for frequencies above 3GHz 36.903 CR	12.5.0	12.6.0
2015-06	RAN5#67	R5-151851	0203	1	Add Test Tolerance analysis for TC 9.2.27.1 36.903 CR	12.5.0	12.6.0
2015-09	RAN5#68	R5-153175	0205	-	Update Test Tolerance analyses for TS 36.521-3 Test case 4.3.1.1	12.6.0	12.7.0
2015-09	RAN5#68	R5-153178	0206	-	Update Test Tolerance analyses for Test case 4.3.4.1	12.6.0	12.7.0
2015-09	RAN5#68	R5-153180	0207	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 5.1.3+5.1.4+5.1.7+5.1.8	12.6.0	12.7.0
2015-09	RAN5#68	R5-153252	0208	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.20.2B	12.6.0	12.7.0
2015-09	RAN5#68	R5-153444	0209	-	Add Test Tolerance analysis for TCs 7.1.3+7.1.3_1+7.1.4+7.1.4_1 36.903 CR	12.6.0	12.7.0
2015-09	RAN5#68	R5-153531	0210	-	Update Test Tolerance analyses for TS 36.521-3 Test case 5.2.7	12.6.0	12.7.0
2015-09	RAN5#68	R5-153543	0211	-	Update Test Tolerance analyses for TS 36.521-3 Test cases 5.2.8 and 5.2.9	12.6.0	12.7.0
2015-09	RAN5#68	R5-153546	0212	-	Update Test Tolerance analyses for TS 36.521-3 Test case 5.2.10	12.6.0	12.7.0

2015-09	RAN5#68	-	-	-	update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC	12.6.0	12.7.0
2015-12	RAN5#69	R5-155017	0213	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.3A_1 and 10.4A_1	12.7.0	12.8.0
2015-12	RAN5#69	R5-155095	0214	-	Add Test Tolerance analysis for 7.1.4A	12.7.0	12.8.0
2015-12	RAN5#69	R5-155140	0215	-	Update Test Tolerance analysis for TS 36.521-3 Test cases 4.3.2 and 4.3.4.2	12.7.0	12.8.0
2015-12	RAN5#69	R5-155142	0216	-	Update Test Tolerance analysis for TS 36.521-3 Test cases 4.4.1 and 4.4.2	12.7.0	12.8.0
2015-12	RAN5#69	R5-155148	0219	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.20.4A	12.7.0	12.8.0
2015-12	RAN5#69	R5-155150	0220	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.20.4B	12.7.0	12.8.0
2015-12	RAN5#69	R5-155195	0221	-	Update Test Tolerance analyses for serving cell Intra Frequency Absolute RSRQ Accuracy Test cases	12.7.0	12.8.0
2015-12	RAN5#69	R5-155198	0222	-	Add Test Tolerance analysis for 2DL CA activation and deactivation of known SCell in non-DRX Test cases	12.7.0	12.8.0
2015-12	RAN5#69	R5-155202	0224	-	Add Test Tolerance analysis for 3DL CA Event Triggered Reporting under Deactivated SCells in Non-DRX Test cases	12.7.0	12.8.0
2015-12	RAN5#69	R5-155206	0225	-	Add Test Tolerance analysis for 3DL E-UTRA for Carrier Aggregation RSRP Accuracy Test cases	12.7.0	12.8.0
2015-12	RAN5#69	R5-155208	0226	-	Add Test Tolerance analysis for 3DL E-UTRA for Carrier Aggregation RSRQ Accuracy Test cases	12.7.0	12.8.0
2015-12	RAN5#69	R5-155418	0227	-	Addition of Test Tolerance analysis for 3DL E-UTRA for Carrier Aggregation RSRP Accuracy Test cases	12.7.0	12.8.0
2015-12	RAN5#69	R5-155588	0228	-	Add Test Tolerance analysis for TCs 8.16.31+8.16.32+8.16.33+8.16.34 36.903 CR	12.7.0	12.8.0
2015-12	RAN5#69	R5-155882	0223	1	Add Test Tolerance analysis for E-UTRAN TDD – UE Timing Advanced Adjustment Accuracy Test for SCell in sTAG	12.7.0	12.8.0
2015-12	RAN5#69	R5-155886	0217	1	Update Test Tolerance analysis for TS 36.521-3 Test cases 4.5.1.1 and 4.5.2.1	12.7.0	12.8.0
2015-12	RAN5#69	R5-155887	0218	1	Add Test Tolerance analysis for TS 36.521-3 Test case 8.20.2A	12.7.0	12.8.0
2016-03	RAN#71	R5-160199	0229	-	Band 66 update of Test Tolerance analyses for 3DL E-UTRA for CA RSRP Accuracy Test cases	12.8.0	12.9.0
2016-03	RAN#71	R5-160223	0230	-	Add TT analysis for 8.16.23 and 8.16.24 TDD-FDD CA event triggered reporting under deactivated SCell in non-DRX with PCell in FDD/TDD 36.903	12.8.0	12.9.0
2016-03	RAN#71	R5-160224	0231	-	Add TT analysis for 8.16.25 and 8.16.26 TDD-FDD CA event triggered reporting on deactivated SCell with PCell interruption in non-DRX with PCell in FDD/TDD 36.903	12.8.0	12.9.0
2016-03	RAN#71	R5-160551	0234	-	Add Test Tolerance analysis for E-UTRAN 3DL CA Activation and Deactivation of Known SCell in Non-DRX	12.8.0	12.9.0
2016-03	RAN#71	R5-160875	0232	1	Add Test Tolerance analysis for RRM test cases 7.1.6, 7.1.7, 7.1.7A and 7.1.7B	12.8.0	12.9.0
2016-03	RAN#71	R5-160882	0233	1	Update Test Tolerance analysis for RRM test cases 7.1.3, 7.1.3_1, 7.1.4, 7.1.4_1, and 7.1.4A	12.8.0	12.9.0
2016-06	RAN#72	R5-162112	0235	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.5 and 10.6	12.9.0	12.10.0

2016-06	RAN#72	R5-162115	0236	-	Add Test Tolerance Analyses for TS 37.571-1 Test Cases 10.7 and 10.8	12.9.0	12.10.0
2016-06	RAN#72	R5-162261	0239	-	Test Tolerance analysis for Cat 0 RLM out of sync (non-DRX) test cases	12.9.0	12.10.0
2016-06	RAN#72	R5-162264	0240	-	Test Tolerance analysis for Cat 0 RLM out of sync DRX test cases	12.9.0	12.10.0
2016-06	RAN#72	R5-162270	0241	-	Test Tolerance analysis for Cat 0 RLM in sync non-DRX test cases	12.9.0	12.10.0
2016-06	RAN#72	R5-162273	0242	-	Test Tolerance analysis for Cat 0 RLM in sync DRX test cases	12.9.0	12.10.0
2016-06	RAN#72	R5-162398	0244	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.6.1_1 and 9.1.12.1_1	12.9.0	12.10.0
2016-06	RAN#72	R5-162400	0245	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.6.2_1 and 9.1.12.2_1	12.9.0	12.10.0
2016-06	RAN#72	R5-162429	0246	-	Update of Test Tolerance analyses for intra-freq absolute RSRP accuracy Test cases to include bands 65 and 66	12.9.0	12.10.0
2016-06	RAN#72	R5-162431	0247	-	Update of Test Tolerance analyses for intra-freq absolute RSRP accuracy Test cases Rel-12 to include bands 65 and 66	12.9.0	12.10.0
2016-06	RAN#72	R5-162435	0248	-	Update of Test Tolerance analyses for intra-freq relative RSRP accuracy Test cases to include bands 65 and 66	12.9.0	12.10.0
2016-06	RAN#72	R5-162438	0249	-	Update of Test Tolerance analyses for inter-freq relative RSRP accuracy Test cases to include bands 65 and 66	12.9.0	12.10.0
2016-06	RAN#72	R5-162736	0253	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.25 and 9.1.26	12.9.0	12.10.0
2016-06	RAN#72	R5-162892	0238	1	Add Test Tolerance analysis for MTC RRM test cases 8.1.12, 8.1.13, 8.1.17 and 8.1.18	12.9.0	12.10.0
2016-06	RAN#72	R5-162893	0237	1	Add Test Tolerance analysis for MTC RRM test cases 8.1.11	12.9.0	12.10.0
2016-06	RAN#72	R5-162896	0250	1	Add Test Tolerance analysis for TS 36.521-3 Test case 8.22.1 and 8.22.2	12.9.0	12.10.0
2016-06	RAN#72	R5-162898	0251	1	Add Test Tolerance analysis for TS 36.521-3 Test case 8.22.3 and 8.22.4	12.9.0	12.10.0
2016-06	RAN#72	R5-163115	0243	1	Add Test Tolerance analysis for TS 37.571-1 Test cases 8.1.3 and 8.1.4	12.9.0	12.10.0
2016-09	RAN#73	R5-165167	0254	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.3.1_1 and 9.1.4.1_1	12.10.0	12.11.0
2016-09	RAN#73	R5-165294	0259	-	Band 66 update of Test Tolerance analyses for Inter-freq relative RSRP accuracy Test cases	12.10.0	12.11.0
2016-09	RAN#73	R5-165303	0260	-	Update of Test Tolerance analyses for Test case 9.1.24	12.10.0	12.11.0
2016-09	RAN#73	R5-165523	0264	-	Add Test Tolerance analysis for TS 36.521-3 Test case 8.22.9 and 8.22.10	12.10.0	12.11.0
2016-09	RAN#73	R5-165524	0265	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.2.28 and 9.2.29	12.10.0	12.11.0
2016-09	RAN#73	R5-165525	0266	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.2.30 and 9.2.31	12.10.0	12.11.0
2016-09	RAN#73	R5-165526	0267	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.2.32 and 9.2.33	12.10.0	12.11.0
2016-09	RAN#73	R5-165578	0270	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.27 and 9.1.28	12.10.0	12.11.0

2016-09	RAN#73	R5-165579	0271	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.33 and 9.1.34	12.10.0	12.11.0
2016-09	RAN#73	R5-166097	0261	1	Update of Test Tolerance analyses for 10.2	12.10.0	12.11.0
2016-09	RAN#73	R5-166099	0262	1	Update of Test Tolerance analyses for 7.5.4	12.10.0	12.11.0
2016-09	RAN#73	R5-166101	0255	1	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.3.2_1 and 9.1.4.2_1	12.10.0	12.11.0
2016-09	RAN#73	R5-166307	0263	1	Addition of Test Tolerance analysis for intra frequency absolute and relative CSI-RSRP accuracies in CRI-RS based discovery signal Test cases	12.10.0	12.11.0
2016-12	RAN#74	R5-168169	0275	F	Addition of Test Tolerance analysis for inter frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal Test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-168171	0276	F	Addition of Test Tolerance analysis for FDD/TDD absolute and relative CSI-RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal Test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-168260	0278	F	Update of Test Tolerance analyses for 3 DL CA Activation and Deactivation of Unknown SCell in Non-DRX test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-168477	0285	F	Add Test Tolerance analysis for MTC RRM test cases 9.2.42.1,9.2.43.1 and 9.2.44.1	12.11.0	12.12.0
2016-12	RAN#74	R5-168519	0289	F	Update of Test Tolerance analyses for 10.4	12.11.0	12.12.0
2016-12	RAN#74	R5-168585	0291	F	Update to Test Tolerance analysis for TS 36.521-3 Test case 9.1.27 and 9.1.28	12.11.0	12.12.0
2016-12	RAN#74	R5-168685	0294	F	PCC-SCC swap update of Test Tolerance analyses for 10+20MHz RSRQ accuracy Test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-168817	0295	F	Update of Test Tolerance analyses for DC RLM out of sync DRX test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-168819	0296	F	Update of Test Tolerance analyses for DC RLM in sync DRX test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-168831	0297	F	Update of Test Tolerance analyses for TC 9.1.5.1 to cater for FDD_B	12.11.0	12.12.0
2016-12	RAN#74	R5-168835	0298	F	Update of Test Tolerance analyses for TC 9.1.5.2 to cater for FDD_B	12.11.0	12.12.0
2016-12	RAN#74	R5-168838	0299	F	Update of Test Tolerance analyses for TC's 9.1.6.1, 9.1.7.1, 9.1.12.1 and 9.1.13.1 to cater for FDD_B	12.11.0	12.12.0
2016-12	RAN#74	R5-169596	0279	F	Add Test Tolerance analysis for DC RRM test cases 8.23.4, 8.23.5 and 8.23.6	12.11.0	12.12.0
2016-12	RAN#74	R5-169604	0293	F	PCC-SCC swap update of Test Tolerance analyses for 10+20MHz TDD-TDD inter-frequency event triggered reporting test cases	12.11.0	12.12.0
2016-12	RAN#74	R5-169605	0300	F	Update of Test Tolerance analyses for TC's 9.1.6.2, 9.1.7.2, 9.1.12.2 and 9.1.13.2 to cater for FDD_B	12.11.0	12.12.0
2016-12	RAN#74	R5-169607	0272	F	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.41.1, 9.1.42.1 and 9.1.43.1	12.11.0	12.12.0
2016-12	RAN#74	R5-169608	0273	F	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.41.2, 9.1.42.2 and 9.1.43.2	12.11.0	12.12.0
2016-12	RAN#74	R5-169728	0286	F	Add Test Tolerance analysis for MTC RRM test cases 8.1.19, 8.1.20,8.1.21 and 8.1.22	12.11.0	12.12.0
2016-12	RAN#74	R5-169729	0287	F	Add Test Tolerance analysis for MTC RRM test cases 8.2.7 and 8.2.8	12.11.0	12.12.0

2016-12	RAN#74	R5-168173	0277	F	Addition of Test Tolerance analysis for intra frequency absolute and relative RSRP accuracies of Cat-M1 UE in CEModeA	12.12.0	13.0.0
2016-12	RAN#74	R5-168358	0283	F	Test tolerance calculation for OOS RLM test cases for CE Mode A	12.12.0	13.0.0
2016-12	RAN#74	R5-168360	0284	F	Test tolerance calculation for IS RLM test cases for CE Mode A	12.12.0	13.0.0
2016-12	RAN#74	R5-169598	0292	F	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.57, 9.1.58 and 9.1.59	12.12.0	13.0.0
2017-03	RAN#75	R5-170790	0310	-	Update to Test Tolerance analysis for the Test cases 9.1.29 and 9.1.30	13.0.0	13.1.0
2017-03	RAN#75	R5-171078	0316	-	Test Tolerance analysis for TS 36.521-3 Test case 8.22.5 and 8.22.6	13.0.0	13.1.0
2017-03	RAN#75	R5-171198	0320	-	Update of Test Tolerance analyses for TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	13.0.0	13.1.0
2017-03	RAN#75	R5-171782	0315	1	Test Tolerance analyses updates for TC's 9.1.8.1, 9.1.9.1 to cater for FDD_B	13.0.0	13.1.0
2017-03	RAN#75	R5-171784	0319	1	PCC-SCC swap update of Test Tolerance analyses for 10+20MHz TDD-TDD inter-frequency event triggered reporting test cases	13.0.0	13.1.0
2017-03	RAN#75	R5-171930	0311	1	Add Test Tolerance analysis for TS 36.521-3 Test case 8.26.5 and 8.26.6	13.0.0	13.1.0
2017-03	RAN#75	R5-171961	0313	1	Add Test Tolerance analysis for DC RRM test cases 8.23.1, 8.23.2 and 8.23.3	13.0.0	13.1.0
2017-03	RAN#75	R5-171966	0307	2	Add Test Tolerance analysis for Cat NB1 intra-freq cell reselection Test case	13.0.0	13.1.0
2017-03	RAN#75	R5-171980	0301	2	Add Test Tolerance Analyses for TS 36.521-3 Test Cases 4.2.15, 4.2.16, and 4.2.17	13.0.0	13.1.0
2017-03	RAN#75	R5-171981	0306	1	Add Test Tolerance analyses for UE Cat M1 Handover Test cases	13.0.0	13.1.0
2017-03	RAN#75	R5-171982	0308	2	Addition of Test Tolerance analysis for test cases 8.1.33, 8.1.34 and 8.1.35 for Cat-M1 UE in CEModeB	13.0.0	13.1.0
2017-03	RAN#75	R5-171983	0309	2	Addition of Test Tolerance analysis for the Test Cases 8.1.23, 8.1.24, and 8.1.25 for Cat-M1 UE in CEModeA	13.0.0	13.1.0
2017-03	RAN#75	R5-171984	0317	1	Test Tolerance analyses to 36.903 for TC 6.1.12 - 14 eMTC CEModeB	13.0.0	13.1.0
2017-03	RAN#75	R5-171988	0304	2	Test Tolerance Analysis for RRM TC 9.1.18.2_1, 9.1.19.2_1 and 9.1.24.2_1	13.0.0	13.1.0
2017-03	RAN#75	R5-171989	0305	2	Test Tolerance Analysis for RRM TC 9.9.1.1_1 and 9.9.2.1_1	13.0.0	13.1.0
2017-06	RAN#76	R5-172236	0326	-	Add Test Tolerance Analysis in 36.903 for TCs 5.1.16, 5.1.17 and 5.1.18	13.1.0	13.2.0
2017-06	RAN#76	R5-172284	0327	-	Update of Test Tolerance analysis to include 8.26.7 and 8.26.8 E-UTRAN FDD/TDD-FS3 Intra-frequency event triggered reporting in DRX for CRS based discovery signal	13.1.0	13.2.0
2017-06	RAN#76	R5-172288	0328	-	Add Test Tolerance analysis for Contention Based Random Access Tests for Cat-M1 UEs in Enhanced Coverage Test cases	13.1.0	13.2.0
2017-06	RAN#76	R5-172330	0329	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.7.1_1+9.1.13.1_1	13.1.0	13.2.0

2017-06	RAN#76	R5-172332	0330	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.7.2_1+9.1.13.2_1	13.1.0	13.2.0
2017-06	RAN#76	R5-172334	0331	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.8.1_1+9.1.9.1_1	13.1.0	13.2.0
2017-06	RAN#76	R5-172336	0332	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.10.1_1+9.1.11.1_1	13.1.0	13.2.0
2017-06	RAN#76	R5-172662	0342	-	PCC-SCC swap update of Test Tolerance analyses for 10+20MHz TDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX	13.1.0	13.2.0
2017-06	RAN#76	R5-172732	0346	-	Test Tolerance analysis for TS 36.521-3 Test case 8.22.11 and 8.22.12	13.1.0	13.2.0
2017-06	RAN#76	R5-172745	0347	-	Test Tolerance: Analysis of Test cases 9.2.51 and 9.2.52	13.1.0	13.2.0
2017-06	RAN#76	R5-172751	0348	-	Test Tolerance analyses updates for TC's 9.1.8.2, 9.1.9.2 to cater for FDD_B	13.1.0	13.2.0
2017-06	RAN#76	R5-173058	0324	1	LAA: Test Tolerance Analysis for RRM TC 9.1.55 and 9.1.56	13.1.0	13.2.0
2017-06	RAN#76	R5-173060	0337	2	Test tolerance analysis for the test cases 8.26.3 and 8.26.4	13.1.0	13.2.0
2017-06	RAN#76	R5-173062	0339	2	Test tolerance analysis for the test cases 7.1.17 and 7.1.18	13.1.0	13.2.0
2017-06	RAN#76	R5-173069	0335	2	Add Test Tolerance analysis for Cat-M1 test cases 7.2.10, 7.2.11, 7.2.12 in CEModeB	13.1.0	13.2.0
2017-06	RAN#76	R5-173081	0350	-	Test tolerance analysis for 36.521-3 test cases 9.11.1 and 9.11.2	13.1.0	13.2.0
2017-06	RAN#76	R5-173230	0345	1	Test Tolerance analysis for TS 36.521-3 Test case 8.22.7 and 8.22.8	13.1.0	13.2.0
2017-06	RAN#76	R5-173232	0334	1	Add Test Tolerance analysis for CA RRM test cases 8.16.51, 8.16.52, 8.16.53 and 8.16.54	13.1.0	13.2.0
2017-06	RAN#76	R5-173236	0323	1	LAA: Test Tolerance analysis of LAA Scell event reporting	13.1.0	13.2.0
2017-06	RAN#76	R5-173241	0336	1	Test tolerance analysis for the test cases 9.1..60 and 9.1.61	13.1.0	13.2.0
2017-06	RAN#76	R5-173246	0344	1	Test Tolerance: Analysis of Test cases 8.26.9 and 8.26.10	13.1.0	13.2.0
2017-06	RAN#76	R5-173247	0338	1	Test tolerance analysis for the test cases 6.1.15 and 6.1.16	13.1.0	13.2.0
2017-06	RAN#76	R5-173251	0340	1	Test tolerance analysis for the test cases 7.2.9	13.1.0	13.2.0
2017-06	RAN#76	R5-173253	0341	1	Test tolerance analysis for the test cases 7.3.62 and 7.3.63	13.1.0	13.2.0
2017-06	RAN#76	R5-173259	0325	1	Test tolerance calculation for TC7.3.56,7.3.57,7.3.58,7.3.59	13.1.0	13.2.0
2017-06	RAN#76	R5-173434	0349	2	Test Tolerance analysis for the test cases 7.3.64 and 7.3.65	13.1.0	13.2.0
2017-09	RAN#77	R5-173749	0352	-	Add Test Tolerance analysis for Test case 9.1.5.1_1	13.2.0	13.3.0
2017-09	RAN#77	R5-173753	0354	-	Add Test Tolerance analysis for TS 36.521-3 Test case 9.1.5.2_1	13.2.0	13.3.0
2017-09	RAN#77	R5-173755	0355	-	Add Test Tolerance analysis for TS 36.521-3 Test cases 9.1.14.1_1+9.1.15.1_1	13.2.0	13.3.0
2017-09	RAN#77	R5-173844	0359	-	Test Tolerance: Analysis of Test cases 7.1.14, 7.1.15 and 7.1.16	13.2.0	13.3.0

2017-09	RAN#77	R5-173906	0360	-	Test Tolerance analysis for Contention Based Random Access Tests in TS 36.521-3 6.2.10, 6.2.11 and 6.2.12 for Cat-M1 UEs in Normal Coverage Test cases	13.2.0	13.3.0
2017-09	RAN#77	R5-173919	0361	-	Update Test Tolerance analysis for reselection Test cases 4.2.1+4.2.2+4.2.9	13.2.0	13.3.0
2017-09	RAN#77	R5-175032	0353	1	Add Test Tolerance analysis for TS 36.521-3 Test cases 8.16.55 and 8.16.56	13.2.0	13.3.0
2017-09	RAN#77	R5-175035	0358	1	Test Tolerance: Analysis of Test cases 7.3.60 and 7.3.61	13.2.0	13.3.0
2017-09	RAN#77	R5-175036	0363	1	Test tolerance, addition of test tolerance analysis of NB-IoT test cases 7.3.66 and 7.3.67	13.2.0	13.3.0
2017-09	RAN#77	R5-175164	0357	1	Test Tolerance analyses for intra frequency case for Cat M1 UE in normal coverage	13.2.0	13.3.0
2017-09	RAN#77	R5-175215	0351	1	Test tolerance analysis for 36.521-3 test cases 9.12.1 and 9.12.2	13.2.0	13.3.0
2017-12	RAN#78	R5-176445	0368	-	Test tolerance, addition of test tolerance analysis of eIMTA test case 8.4.6	13.3.0	13.4.0
2017-12	RAN#78	R5-177125	0364	2	Update Test Tolerance analysis for NB-IoT RLM Out-of-sync Test cases	13.3.0	13.4.0
2017-12	RAN#78	R5-177126	0365	2	Update Test Tolerance analysis for NB-IoT RLM In-sync Test cases	13.3.0	13.4.0
2017-12	RAN#78	R5-177313	0366	1	Test tolerance, addition of test tolerance analysis of NB-IoT test cases 4.2.19 and 4.2.24	13.3.0	13.4.0
2018-03	RAN#79	R5-181517	0370	1	Test tolerance, addition of test tolerance analysis of NB-IoT test case 6.2.16	13.4.0	13.5.0
2018-03	RAN#79	R5-181518	0371	1	Test tolerance, addition of test tolerance analysis of NB-IoT test case 6.2.17	13.4.0	13.5.0
2018-03	RAN#79	R5-181031	0375	-	Add Test Tolerance analysis for Cat-1bis RRM test cases 4.2.20 and 4.2.21	13.5.0	14.0.0
2018-03	RAN#79	R5-181032	0376	-	Add Test Tolerance analysis for Cat-1bis RRM test cases 5.1.19 and 5.1.20	13.5.0	14.0.0
2018-03	RAN#79	R5-181512	0369	1	Test tolerance, addition of test tolerance analysis of SRS switching test case 7.6.1 and 7.6.2.	13.5.0	14.0.0
2018-03	RAN#79	R5-181513	0372	1	Addition of test tolerance analysis for HST test case 8.2.11	13.5.0	14.0.0
2018-06	RAN#80	R5-183717	0379	1	Test tolerance, Update of zip file to add information of test case 6.2.18	14.0.0	14.1.0
2018-06	RAN#80	R5-183727	0380	1	Update Test Tolerance analysis for NB-IoT Tx Timing Test cases 7.1.17+7.1.18	14.0.0	14.1.0
2018-06	RAN#80	R5-183728	0378	1	Add Test Tolerances analysis for E-UTRAN Handover inter-frequency case for UE category 1bis	14.0.0	14.1.0
2018-06	RAN#80	R5-183785	0381	-	Add Test Tolerances analysis for inter-freq cell reselection Test cases for UE category 1bis	14.0.0	14.1.0
2018-09	RAN#81	R5-184172	0397	-	Add Test Tolerances analysis for E-UTRAN RRM IncMon TCs 8.3.7 and 8.4.7	14.1.0	14.2.0
2018-09	RAN#81	R5-184173	0398	-	Add Test Tolerances analysis for E-UTRAN IncMon TC 8.3.8	14.1.0	14.2.0
2018-09	RAN#81	R5-184174	0399	-	Add Test Tolerances analysis for E-UTRAN IncMon TC 8.3.9	14.1.0	14.2.0
2018-09	RAN#81	R5-184409	0409	-	Addition of TT analysis of V2X TC 12.2.1	14.1.0	14.2.0
2018-09	RAN#81	R5-184410	0410	-	Addition of TT analysis of V2X TC 12.2.2	14.1.0	14.2.0

2018-09	RAN#81	R5-184411	0411	-	Addition of TT analysis of V2X TC 12.4	14.1.0	14.2.0
2018-09	RAN#81	R5-185338	0412	1	Test Tolerances analysis for E-UTRAN FDD-FDD and TDD-TDD inter-frequency TC 8.3.1_2, 8.3.2_2, 8.4.1_2, 8.4.2_2 and 8.4.6_2 for UE category 1bis	14.1.0	14.2.0
2018-09	RAN#81	R5-185339	0413	1	Test Tolerances analysis for E-UTRAN FDD-FDD and TDD-TDD inter-frequency TC 8.3.3_2 and 8.4.3_2 for UE category 1bis when L3 filtering is used	14.1.0	14.2.0
2018-09	RAN#81	R5-185340	0414	1	Test Tolerances analysis for E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 1bis	14.1.0	14.2.0
2018-09	RAN#81	R5-185341	0415	1	Test Tolerances analysis for E-UTRAN FDD-FDD and TDD-TDD intra-frequency TC 8.1.12_2, 8.1.13_2, 8.1.17_2, 8.1.18_2 for UE category 1bis	14.1.0	14.2.0
2018-09	RAN#81	R5-185395	0383	1	Test Tolerance Analysis for RRM TC 9.1.1.1_2 and 9.1.2.1_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185396	0386	1	Test Tolerance Analysis for RRM TC 9.1.1.2_2 and 9.1.2.2_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185397	0387	1	Test Tolerance Analysis for RRM TC 9.1.3.1_2 and 9.1.4.1_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185398	0388	1	Test Tolerance Analysis for RRM TC 9.1.3.2_2 and 9.1.4.2_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185399	0389	1	Test Tolerance Analysis for RRM TC 9.1.5.1_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185400	0390	1	Test Tolerance Analysis for RRM TC 9.1.5.2_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185401	0392	1	Test Tolerance Analysis for RRM TC 9.2.3.1_2 and 9.2.4.1_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185402	0393	1	Test Tolerance Analysis for RRM TC 9.2.3.2_2 and 9.2.4.2_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185403	0394	1	Test Tolerance Analysis for RRM TC 9.2.4A.1_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185404	0395	1	Test Tolerance Analysis for RRM TC 9.2.4A.2_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185405	0400	1	Test Tolerance Analysis for RRM TC 9.2.1.1_2 and 9.2.2.1_2	14.1.0	14.2.0
2018-09	RAN#81	R5-185424	0384	1	Addition of TT analysis of eHST FDD Intra-frequency event reporting.	14.1.0	14.2.0
2018-09	RAN#81	R5-185425	0385	1	Addition of TT analysis of V2X uplink timing test case	14.1.0	14.2.0
2018-09	RAN#81	R5-185456	0396	1	TC Group definition for RRM IncMon test cases	14.1.0	14.2.0
2019-03	RAN#83	R5-191593	0423	-	Addition of Test Tolerance Analysis for RRM IncMon Test Cases 4.2.10 and 4.2.11	14.3.0	14.4.0
2019-03	RAN#83	R5-191594	0424	-	Addition of Test Tolerance Analysis for RRM IncMon Test Cases 4.3.15, 4.3.3A	14.3.0	14.4.0
2019-03	RAN#83	R5-191595	0425	-	Addition of Test Tolerance Analysis for RRM IncMon Test Cases 4.3.2A and 4.3.4.4	14.3.0	14.4.0
2019-03	RAN#83	R5-191596	0426	-	Addition of Test Tolerance Analysis for RRM IncMon Test Cases 8.5.8 and 8.6.3	14.3.0	14.4.0
2019-03	RAN#83	R5-191597	0427	-	Addition of Test Tolerance Analysis for RRM IncMon Test Cases 8.7.5 and 8.7A.1	14.3.0	14.4.0
2019-03	RAN#83	R5-192850	0428	1	Correction to TT analysis for NB-IOT RLM tests	14.4.0	15.0.0
2019-09	RAN#85	R5-196398	0429	-	Addition of Test Tolerance Analysis for 3DL/3UL TDD CA UE Transmit Timing Accuracy	15.0.0	15.1.0

2019-09	RAN#85	R5-196944	0431	-	Test Tolerances analysis for E-UTRAN RRM feMTC Test Cases	15.0.0	15.1.0
2019-12	RAN#86	R5-197753	0432	-	Addition of Test tolerance of V2X RRM test cases 12.3.1 and 12.3.2	15.1.0	15.2.0
2019-12	RAN#86	R5-197756	0433	-	Addition of Test tolerance of V2X RRM test case 12.5	15.1.0	15.2.0
2019-12	RAN#86	R5-199457	0436	-	Test Tolerances analysis for E-UTRAN RRM feMTC Test Cases	15.1.0	15.2.0
2019-12	RAN#86	R5-199479	0434	1	Addition of Test Tolerance of V2X RRM test cases 12.6.1 and 12.6.2	15.1.0	15.2.0
2020-06	RAN#88	R5-202801	0438	1	Test Tolerance analysis for E-UTRAN FDD inter-frequency event triggered reporting in CEModeA test cases	15.2.0	15.3.0
2020-06	RAN#88	R5-202802	0439	1	Test Tolerance analysis for E-UTRAN FDD inter-frequency event triggered reporting in CEModeB test cases	15.2.0	15.3.0
2020-09	RAN#89	R5-204114	0440	-	Test Tolerance analysis for E-UTRAN HD-FDD inter frequency handover for Cat-M1 UEs in CEModeA test case	15.3.0	15.4.0
2020-09	RAN#89	R5-204115	0441	-	Test Tolerance analysis for E-UTRAN HD-FDD Inter frequency RRC Re-establishment for Cat-M1 UE in CEModeA test case	15.3.0	15.4.0
2020-12	RAN#90	R5-205894	0443	-	Addition of TT analysis of NB-IOT TDD RRM test cases 4.2.35, 4.2.36 and 4.2.37	15.4.0	15.5.0
2020-12	RAN#90	R5-206711	0442	1	Addition of test point analysis for sTTI RRM test cases	15.4.0	15.5.0
2022-06	RAN#96	R5-223175	0445	-	Test Tolerances for E-UTRAN intra-frequency Conditional Handover test cases	15.5.0	16.0.0
2022-06	RAN#96	R5-223176	0446	-	Test Tolerances for E-UTRAN inter-frequency Conditional Handover test cases	15.5.0	16.0.0
2022-09	RAN#97	R5-224841	0447	-	Update to TT analysis of V2X test case 12.1.2	16.0.0	16.1.0
2023-03	RAN#99	-	-	-	Administrative release upgrade to match the release of TS 36.521-2 and TS 36.521-3 which were upgraded at RAN#99 to Rel-18 due to Rel-18 relevant CR(s)	16.1.0	17.0.0
2023-06	RAN#100	R5-232142	0450	-	Removal of technical content in TR 36.903 v17.0.0 and substitution with pointer to the next Release	17.0.0	17.1.0

History

Document history		
V17.0.0	May 2023	Publication
V17.1.0	July 2023	Publication