



**LTE;  
Evolved Universal Terrestrial Radio Access (E-UTRA)  
and Evolved Universal Terrestrial  
Radio Access Network (E-UTRAN);  
Derivation of test points for radio transmission and reception  
conformance test cases  
(3GPP TR 36.905 version 15.5.0 Release 15)**



---

Reference

RTR/TSGR-0536905vf50

---

Keywords

LTE

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Important notice**

The present document can be downloaded from:

<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at [www.etsi.org/deliver](http://www.etsi.org/deliver).

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:

<https://portal.etsi.org/People/CommitteeSupportStaff.aspx>

---

**Copyright Notification**

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

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2020.

All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members.

**3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

**oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners.

**GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

---

## Intellectual Property Rights

### Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

### Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

---

## Legal Notice

This Technical Report (TR) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

---

## Modal verbs terminology

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

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

---

# Contents

Intellectual Property Rights .....	2
Legal Notice .....	2
Modal verbs terminology.....	2
Foreword.....	4
1 Scope .....	5
2 References .....	5
3 Definitions, symbols and abbreviations .....	5
4 Test coverage analysis.....	5
<b>Annex A: Void .....</b>	<b>6</b>
<b>Annex B: Change history .....</b>	<b>7</b>
History .....	12

---

# Foreword

This Technical Report has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

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

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

---

## 1 Scope

The present document specifies and contains the derivation of Test Points for RF test cases, thereby 3GPP TSG RAN WG5 will have a way of storing the input contributions provided. The test cases are described in TS36.521-1[2].

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

The present document is applicable from Release 10 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*.

[1] to [4] (void)

- [5] 3GPP TS 36.905 Release 16: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Derivation of test points for radio transmission and reception conformance test cases"

---

## 3 Definitions, symbols and abbreviations

Void

---

## 4 Test coverage analysis

The requirements of the present document are provided in 3GPP TS 36.905 Release 16 [5].

## Annex A: Void

## Annex B: Change history



Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2015-04	RAN5#67	R5-152110	-	-	TR 36.905 Skeleton proposed for RAN5#67	-	0.0.1
2015-09	RAN5#68	R5-154027	-	-	Text proposal to TR 36.905 v0.0.1	0.0.1	0.0.2
2015-11	RAN5#69	R5-155414	-	-	Text proposal to TR 36.905 v0.0.1 (Justification of Reference sensitivity level for CA_3A-42A)	0.0.2	2.0.0
2015-11	RAN5#69	R5-155669	-	-	Text proposal to TR 36.905 v0.0.2 - Test point selection for CA_2A-4A-5A in Reference sensitivity test case 7.3A.5	0.0.2	2.0.0
2015-11	RAN5#69	R5-155854	-	-	Addition of Test Points for CA_1A-3A-8A to TR 36.905 v0.0.2	0.0.2	2.0.0
2015-11	RAN5#69	R5-155858	-	-	Add test point's analysis for 7.3A.5 Reference sensitivity level for CA(Intra-band non-contiguous + Inter-band)	0.0.2	2.0.0
2015-12	RAN#70	-	-	-	brought under change control by MCC	2.0.0	12.0.0
2016-03	RAN#71	R5-160830	0008	1	Add Test point analysis for Reference sensitivity test case 7.3A.5 for CA_4A-4A-13A	12.0.0	12.1.0
2016-03	RAN#71	R5-160832	0003	1	Addition of test point derivation explanation for 3DL CA REFSSENS testcases, Intel combinations	12.0.0	12.1.0
2016-03	RAN#71	R5-160842	0006	1	Test coverage analysis for Inter-band CA A-MPR test case	12.0.0	12.1.0
2016-03	RAN#71	R5-160843	0007	1	Add Test point analysis for A-MPR test case 6.2.4A.2	12.0.0	12.1.0
2016-03	RAN#71	R5-160844	0001	1	Addition of test points selection for 2UL inter-band CA spurious test cases	12.0.0	12.1.0
2016-03	RAN#71	R5-161011	0005	1	36.905 Addition of Test Points for CA_1A-3A-7A	12.0.0	12.1.0
2016-03	RAN#71	R5-161013	0004	1	36.905 Addition of Test Points for CA_1A-3A-20A	12.0.0	12.1.0
2016-03	RAN#71	R5-161060	0002	1	Addition of test points analysis for CA_1A-3A-42A, CA_1A-19A-28A and CA_3A-19A-42A	12.0.0	12.1.0
2016-06	RAN#72	R5-162871	0015	1	Addition of test points selection for 2UL inter-band CA spurious test cases	12.1.0	12.2.0
2016-06	RAN#72	R5-162998	0013	1	A-MPR band coverage for inter-band UL CA	12.1.0	12.2.0
2016-06	RAN#72	R5-162999	0014	1	Test point analysis for A-MPR test case 6.2.4A.2	12.1.0	12.2.0
2016-06	RAN#72	R5-162360	0010	-	Test point and test requirements analysis for CA_4A-5A spurious test cases	12.2.0	13.0.0
2016-06	RAN#72	R5-162845	0011	1	36.905 Addition of Test Points for CA_3A-7A-8A	12.2.0	13.0.0
2016-06	RAN#72	R5-162988	0012	1	New CA band combinations CA_28A-41A, CA_28A-41C, CA_28A-42A and CA_28A-42C - Updates of test points analysis	12.2.0	13.0.0
2016-06	RAN#72	R5-163020	0016	-	Addition of test points analysis for CA_1A-8A-11A	12.2.0	13.0.0
2016-09	RAN#73	R5-166032	0018	1	Introduction of test point analysis for CA_8A-42C (3DL) and test case 7.3A.5	13.0.0	13.1.0
2016-09	RAN#73	R5-166110	0026	1	36.905 Addition of test points selection for 2UL inter-band CA spurious test cases	13.0.0	13.1.0
2016-09	RAN#73	R5-166130	0025	1	Test point analysis for NS_24 and NS_25	13.0.0	13.1.0
2016-09	RAN#73	R5-166144	0023	1	Addition of test point analysis for TC 7.3A.9 Reference sensitivity level for 4DL CA	13.0.0	13.1.0
2016-09	RAN#73	R5-166146	0019	1	Addition of test points analysis for CA_1A-3C to 36.905	13.0.0	13.1.0
2016-09	RAN#73	R5-166153	0024	1	Change of test points and requirements for NS_05 A-MPR - Updates of test points analysis	13.0.0	13.1.0
2016-09	RAN#73	R5-166052	0021	1	New CA band combinations CA_1A-41A-42A - Updates of test points analysis	13.1.0	14.0.0
2016-12	RAN#74	R5-168559	0041	-	Update of the test point analysis for TC 7.3A.9 REFSSENS 4DL CA	14.0.0	14.1.0
2016-12	RAN#74	R5-168793	0047	-	Test point analysis of A-MPR test cases for Category M1	14.0.0	14.1.0
2016-12	RAN#74	R5-169162	0059	-	Addition of test point analysis for TC 7.3A.9 Reference sensitivity level	14.0.0	14.1.0
2016-12	RAN#74	R5-169171	0058	-	Correction of test point analysis for CA_4A-5A-30A	14.0.0	14.1.0
2016-12	RAN#74	R5-169538	0043	-	New CA band combination CA_1A-11A-18A - Updates of test points analysis	14.0.0	14.1.0
2016-12	RAN#74	R5-169540	0044	-	New CA band combination CA_41C-42C - Updates of test points analysis	14.0.0	14.1.0
2016-12	RAN#74	R5-169542	0045	-	New CA band combination CA_1A-18A, 1A-26A, 1A-28A, 1A-42A and 18A-28A - Updates of test points analysis	14.0.0	14.1.0
2016-12	RAN#74	R5-169551	0048	-	Correction of invalid test point for CA_1A-3A-7A	14.0.0	14.1.0
2016-12	RAN#74	R5-169555	0030	-	Addition of test points analysis for CA_2A-2A-12B to 36.905	14.0.0	14.1.0
2016-12	RAN#74	R5-169556	0031	-	Addition of test points analysis for CA_2A-2A-5A-12A to 36.905	14.0.0	14.1.0
2016-12	RAN#74	R5-169557	0032	-	Addition of test points analysis for CA_2A-2A-4A-5A to 36.905	14.0.0	14.1.0
2016-12	RAN#74	R5-169566	0028	-	Addition of test points analysis for CA_1A-3A-41A to 36.905	14.0.0	14.1.0
2016-12	RAN#74	R5-169614	0029	-	Update of section 4.3 with TPs selection analyses	14.0.0	14.1.0
2016-12	RAN#74	R5-169717	0042	-	Correction of test point analysis for NS_05 A-MPR	14.0.0	14.1.0
2017-03	RAN#75	R5-171255	0082	-	Clarification of Test point analysis process for 3DL and 4DL CA Reference sensitivity test cases	14.1.0	14.2.0
2017-03	RAN#75	R5-171710	0073	1	Addition of test points analysis for CA_1A-8A-28A	14.1.0	14.2.0
2017-03	RAN#75	R5-171713	0074	1	Addition of test points analysis for CA_3A-8A-28A	14.1.0	14.2.0
2017-03	RAN#75	R5-171716	0075	1	Addition of test points analysis for CA_3A-28A-41A	14.1.0	14.2.0
2017-03	RAN#75	R5-171723	0060	1	Addition of test points analysis for CA_1C-3A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171724	0080	1	New CA band combinations CA_1A-41A-42C and 1A-41C-42A - Updates of test points analysis	14.1.0	14.2.0
2017-03	RAN#75	R5-171815	0081	1	Test point analysis of A-MPR test cases for Category M1	14.1.0	14.2.0

2017-03	RAN#75	R5-171820	0062	1	Addition of CA_1A-3A-28A in 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171822	0063	1	Addition of test points analysis for CA_2A-4A-30A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171824	0064	1	Addition of test points analysis for CA_2A-4A-12A-30A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171826	0065	1	Addition of test points analysis for CA_2A-4A-29A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171827	0066	1	Addition of test points analysis for CA_2A-4A-29A-30A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171828	0068	1	Addition of test points analysis for CA_5A-12B to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171830	0067	1	Addition of test points analysis for CA_2A-5A-12B to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171831	0069	1	Addition of test points analysis for CA_2A-4A-5A-12A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171833	0070	1	Addition of test points analysis for CA_2C-12A-30A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171835	0071	1	Addition of test points analysis for CA_2C-29A-30A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171836	0072	1	Addition of test points analysis for CA_2C-30A to 36.905	14.1.0	14.2.0
2017-03	RAN#75	R5-171841	0077	1	Update of A-MPR analyses for (NS_03+NS_01) and (NS_03+NS_06)	14.1.0	14.2.0
2017-03	RAN#75	R5-171843	0078	1	CA band combinations CA_1A-26A, 1A-28A, 1A-42A and 18A-28A - Updates of test points analysis	14.1.0	14.2.0
2017-03	RAN#75	R5-171845	0079	1	CA band combinations CA_1A-18A-28A - Updates of test points analysis	14.1.0	14.2.0
2017-03	RAN#75	R5-171895	0076	1	Update for NS_04 Power Class 2 Test points	14.1.0	14.2.0
2017-03	RAN#75	R5-171903	0061	1	Update TR 36.905 with Test Points Analysis for Band 48	14.1.0	14.2.0
2017-06	RAN#76	R5-172114	0086	-	TP analysis for CA_46A-46A-66A, CA_46C-66A	14.2.0	14.3.0
2017-06	RAN#76	R5-172138	0087	-	Resubmission of Update TS 36.905 with Test Points Analysis for Band 48	14.2.0	14.3.0
2017-06	RAN#76	R5-172357	0093	-	Update for NS_04, NS_22 and NS_23 test points	14.2.0	14.3.0
2017-06	RAN#76	R5-172565	0099	-	Addition of CA_3A-3A-7A-7A in 36.905	14.2.0	14.3.0
2017-06	RAN#76	R5-172566	0100	-	Addition of CA_7A-7A-XA in 36.905	14.2.0	14.3.0
2017-06	RAN#76	R5-172649	0106	-	Addition of test points analysis for CA_xA-66A-66A and CA_66A-66C	14.2.0	14.3.0
2017-06	RAN#76	R5-172663	0107	-	Correction of PCC allocation rules for intra-band non-contiguous CA	14.2.0	14.3.0
2017-06	RAN#76	R5-173208	0085	1	TP analysis for TC 7.3A.5 for CA_4A-12A-30A	14.2.0	14.3.0
2017-06	RAN#76	R5-173211	0088	1	Addition of CA_3C-8A in 36.905	14.2.0	14.3.0
2017-06	RAN#76	R5-173213	0089	1	A-MPR analyses for new Rel-14 CA configurations	14.2.0	14.3.0
2017-06	RAN#76	R5-173214	0090	1	Spurious emission TP analyses for new Rel-14 CA configurations	14.2.0	14.3.0
2017-06	RAN#76	R5-173218	0095	1	Addition of test points analysis for CA_1A-11A-28A	14.2.0	14.3.0
2017-06	RAN#76	R5-173219	0096	1	Addition of test points analysis for CA_8A-11A-28A	14.2.0	14.3.0
2017-06	RAN#76	R5-173222	0104	1	Addition of test points analysis for CA_3A-20A-32A	14.2.0	14.3.0
2017-06	RAN#76	R5-173292	0092	1	Update of the Test point analysis about REFSENS for 3DL and 4DL CA	14.2.0	14.3.0
2017-06	RAN#76	R5-173293	0091	1	Addition of the Test point analysis about REFSENS for 5DL CA	14.2.0	14.3.0
2017-06	RAN#76	R5-173294	0094	1	Update of TpAnalysis4DLRefSens_7.3A.9(2A-2A-12B)	14.2.0	14.3.0
2017-06	RAN#76	R5-173300	0101	1	Addition of test point analysis for CA_8A-41C	14.2.0	14.3.0
2017-06	RAN#76	R5-173304	0098	1	Addition of CA_3A-41A-42A in 36.905	14.2.0	14.3.0
2017-06	RAN#76	R5-173389	0097	1	Addition of test point analysis for 2UL/2DL of CA_41A-42A	14.2.0	14.3.0
2017-06	RAN#76	R5-173394	0102	1	Addition of test point analysis for Rel-14 CA	14.2.0	14.3.0
2017-09	RAN#77	R5-175014	0115	1	Addition of TP analysis for Reference sensitivity TC	14.3.0	14.4.0
2017-09	RAN#77	R5-175017	0116	1	Addition of CA_1A-3C-8A in 36.905	14.3.0	14.4.0
2017-09	RAN#77	R5-175018	0109	1	Addition of test points analysis for CA_1A-3A-11A	14.3.0	14.4.0
2017-09	RAN#77	R5-175019	0110	1	Addition of test points analysis for CA_3A-8A-11A	14.3.0	14.4.0
2017-09	RAN#77	R5-175020	0111	1	Addition of test points analysis for CA_3A-11A-28A	14.3.0	14.4.0
2017-09	RAN#77	R5-175021	0114	1	TP analysis for CA_29A-46A-66A, CA_46A-66C	14.3.0	14.4.0
2017-09	RAN#77	R5-175023	0112	1	New CA band combinations CA_41A-42C and CA_41C-42A - Updates of test points analysis	14.3.0	14.4.0
2017-09	RAN#77	R5-175024	0113	1	New CA band combinations CA_1A-41C-42C - Updates of test points analysis	14.3.0	14.4.0
2017-12	RAN#78	R5-176385	0117	-	Addition of CA_1A-3A-40A and CA_3A-8A-40A in 36.905	14.4.0	14.5.0
2017-12	RAN#78	R5-176387	0118	-	Addition of CA_1A-3A-8A-40A in 36.905	14.4.0	14.5.0
2017-12	RAN#78	R5-176434	0119	-	Addition of test points analysis for CA_2A-4A-7A_UL_2A-4A to 36.905	14.4.0	14.5.0
2017-12	RAN#78	R5-176435	0120	-	Addition of test points analysis for CA_2A-4A-7A-7A and CA_2A-4A-7A-7A_UL_2A-4A to 36.905	14.4.0	14.5.0
2018-03	RAN#79	R5-180800	0122	-	Correction of test point analysis for A-MPR for Band 48 (NS_27)	14.5.0	14.6.0
2018-03	RAN#79	R5-181542	0123	1	Correction of TP analyses for spurious co-existence	14.5.0	14.6.0
2018-03	RAN#79	R5-181617	0124	1	Addition of test points analysis for CA_3DL_3A-7A-20A_2UL	14.5.0	14.6.0
2018-03	RAN#79	R5-181618	0126	1	Addition of test points analysis for CA_3A-7A-20A-32A 4DL/1UL	14.5.0	14.6.0
2018-03	RAN#79	R5-180768	0121	-	Update TP analyses for spurious co-existence to Rel-15 requirements	14.6.0	15.0.0
2018-06	RAN#80	R5-182712	0134	-	New CA band combination CA_3A-18A - Updates of test points analysis	15.0.0	15.1.0
2018-06	RAN#80	R5-183733	0137	1	Addition of test points analysis for CA_3A-7A-42A 3DL/1UL	15.0.0	15.1.0
2018-06	RAN#80	R5-183734	0138	1	Addition of test points analysis for CA_3A-20A-42A 3DL/1UL	15.0.0	15.1.0
2018-06	RAN#80	R5-183745	0131	1	CA band combination CA_1A-18A-28A - Updates of test points analysis	15.0.0	15.1.0

2018-06	RAN#80	R5-183768	0132	1	CA band combination CA_41C-42C - Updates of test points analysis	15.0.0	15.1.0
2018-06	RAN#80	R5-183769	0133	1	CA band combinations CA_1A-3A-28A, CA_1A-3A-42A, CA_1A-42C and 3A-42C - Updates of test points analysis	15.0.0	15.1.0
2018-06	RAN#80	R5-183775	0135	1	CA band combinations CA_1A-3A-18A and CA_1A-3A-26A - Updates of test points analysis	15.0.0	15.1.0
2018-06	RAN#80	R5-183777	0136	1	CA band combinations CA_41A-42C and 41C-42A - Updates of test points analysis	15.0.0	15.1.0
2018-06	RAN#80	R5-183778	0139	1	RF TP analysis for CA_29A-66A-70A, CA_29A-66A-66A-70A, CA_29A-66A-66A-70C, CA_29A-66A-70C, CA_29A-66C-70A, CA_29A-66C-70C, CA_29A-70C, CA_66A-66A-70A, CA_66A-66A-70C, CA_66A-70A, CA_66A-70C, CA_66C-70A, CA_66C-70C	15.0.0	15.1.0
2018-09	RAN#81	R5-184197	0143	-	CA band combination CA_2A-46A CA_26A-46A - Updates of test points analysis	15.1.0	15.2.0
2018-09	RAN#81	R5-184277	0144	-	Update of TP analysis of CA_3A-7A-8A	15.1.0	15.2.0
2018-09	RAN#81	R5-184278	0145	-	Addition of TP analysis of CA_1A-7A-8A in 36.905	15.1.0	15.2.0
2018-09	RAN#81	R5-184279	0146	-	Addition of TP analysis of CA_1A-3A-7A-8A in 36.905	15.1.0	15.2.0
2018-09	RAN#81	R5-184280	0147	-	Addition of TP analysis of CA_7A-42A-42A in 36.905	15.1.0	15.2.0
2018-09	RAN#81	R5-184281	0148	-	Addition of TP analysis of CA_20A-42A-42A in 36.905	15.1.0	15.2.0
2018-09	RAN#81	R5-184553	0149	-	Update of (NS_01/NS_17), (NS_03/NS_07), (NS_05/NS_01) and (NS_05/NS_17) TP analysis for A-MPR test case for inter-band UL CA	15.1.0	15.2.0
2018-09	RAN#81	R5-184638	0150	-	CA_1A-3A-26A(1UL) - Updates of test points analysis	15.1.0	15.2.0
2018-09	RAN#81	R5-184773	0152	-	RF TP analysis for CA_66A-66A-70C-71A, CA_66A-66A-70A-71A, CA_66A-70C-71A, CA_66A-70A-71A, CA_66A-66A-71A, CA_70A-71A, CA_66A-71A, CA_66C-70C-71A, CA_66C-70A-71A, CA_70C-71A, CA_66C-71A	15.1.0	15.2.0
2018-09	RAN#81	R5-184800	0153	-	Update to test point analysis for NS_27	15.1.0	15.2.0
2018-09	RAN#81	R5-184821	0154	-	Inter-band con-current V2X configurations- Updates of test points analysis	15.1.0	15.2.0
2018-09	RAN#81	R5-185345	0141	1	New CA band combination CA_1A-3A-7A-20A - Update of test point analysis	15.1.0	15.2.0
2018-09	RAN#81	R5-185437	0155	1	Test point and test requirements analysis for CA_3A-41A, 41A-42A,3A-42A spurious test cases	15.1.0	15.2.0
2018-09	RAN#81	R5-185502	0156	1	Addition of new CA band combination – Updates of test points analysis	15.1.0	15.2.0
2018-09	RAN#81	R5-185543	0151	1	CA_3A-18A - Updates of test points analysis	15.1.0	15.2.0
2018-12	RAN#82	R5-186450	0157	-	Addition of test point calculation for BW combination 75-25 in TC 6.2.4A.2	15.2.0	15.3.0
2018-12	RAN#82	R5-187268	0160	-	CA_3A-28A - Updates of test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187292	0161	-	CA_11A-18A - Updates of test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187452	0169	-	Inter-band concurrent V2X configurations- Add 71A_47A Spurious Emission Test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187865	0165	1	TP analyses for new Rel-15 CA configurations	15.2.0	15.3.0
2018-12	RAN#82	R5-187867	0158	1	Inter-band concurrent V2X configurations- Add 3A_47A Spurious Emission Test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187868	0167	1	Inter-band concurrent V2X configurations- Add 5A_47A Spurious Emission Test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187960	0162	1	CA_3A-41A-42C(1UL) - Updates of test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187961	0163	1	CA_3A-41C-42A(1UL) - Updates of test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187962	0164	1	CA_3A-41C-42C(1UL) - Updates of test points analysis	15.2.0	15.3.0
2018-12	RAN#82	R5-187969	0166	1	Update for reference sensitivity TP analysis for CA_2A-66A-71A CA configuration	15.2.0	15.3.0
2019-03	RAN#83	R5-191174	0170	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_7A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191175	0171	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_8A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191176	0172	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_20A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191177	0173	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_28A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191178	0174	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_34A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191179	0175	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_39A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191180	0176	-	Addition of TP analysis for UE-coexistence SE requirements for V2X_41A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191181	0177	-	Update of TP analysis for UE-coexistence SE requirements for V2X_3A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191182	0178	-	Update of TP analysis for UE-coexistence SE requirements for V2X_71A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191469	0179	-	Update of TP analysis for UE-coexistence SE requirements for V2X_5A-47A	15.3.0	15.4.0
2019-03	RAN#83	R5-191792	0182	-	Correction to Table 4.1.3-1 in clause 4.1.3	15.3.0	15.4.0

2019-03	RAN#83	R5-191957	0185	-	Updating and correction of TP analysis for 3DL CA configuration	15.3.0	15.4.0
2019-03	RAN#83	R5-191958	0186	-	Updating of TP analysis for 4DL CA configuration	15.3.0	15.4.0
2020-03	RAN#87	R5-200073	0230	-	Removal of technical content in 36.905 v15.4.0 and substitution with pointer to the next Release	15.4.0	15.5.0

---

## History

<b>Document history</b>		
V15.1.0	July 2018	Publication
V15.2.0	September 2018	Publication
V15.3.0	April 2019	Publication
V15.4.0	May 2019	Publication
V15.5.0	April 2020	Publication