

ETSI TR 138 905 V17.11.0 (2024-01)



TECHNICAL REPORT

**5G;
NR;**

**Derivation of test points for radio transmission and reception
User Equipment (UE) conformance test cases
(3GPP TR 38.905 version 17.11.0 Release 17)**



Reference

RTR/TSGR-0538905vnb0

Keywords

5G

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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 |
| Annex A to D: Void | 6 |
| Annex E: Change history | 7 |
| History | 23 |

Foreword

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

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

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 NR RF test cases, thereby 3GPP TSG RAN WG5 will have a way of storing the input contributions provided. The test cases are described in TS38.521-1[2], TS38.521-2[3] and TS38.521-3[4],

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

The present document is applicable from Release 15 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 [10] (void)

[11] 3GPP TR 38.905 Release 18: "Derivation of test points for radio transmission and reception User Equipment (UE) conformance test cases"

3 Definitions, symbols and abbreviations

Void

4 Test coverage analysis

The requirements of the present document are provided in 3GPP TR 38.905 Release 18 [11].

Annex A to D: Void

Annex E: Change history

| Change history | | | | | | | |
|----------------|--------------------|-----------|------|---------|-----|---|----------------|
| Date | Meeting | TDoc | CR | R ev | Cat | Subject/Comment | New version |
| 2017-09 | RAN5#76 | R5-174704 | - | - | - | Draft skeleton TR 38.905 | 0.0.1 |
| 2018-04 | RAN5#2-5G-NR Adhoc | R5-181954 | - | - | - | <p>Agreed Text Proposal in RAN5#2-5G-NR Adhoc: R5-181889, " TP to update TR 38.905 with information on test point analysis "</p> <p>Agreed Test Point Analysis in RAN5#78: R5-180885, "Discussion on test point selection for NR Occupied Bandwidth in FR1" R5-180886, "Discussion on test point selection for NR SEM in FR1" R5-180887, "Discussion on test point selection for NR ACLR in FR1" R5-181524, "Discussion on test point selection for Absolute Power Tolerance in FR1" R5-181525, "Discussion on test point selection for Aggregate Power Tolerance in FR1"</p> <p>Agreed Test Point Analysis in RAN5#2-5G-NR Adhoc: R5-182019, "Discussion of NR FR1 Test Point for TX Spurious Emission test cases " R5-182024, "Discussion on test point selection for NR Frequency Error in FR1" R5-181830, "Discussion on test point selection for Maximum Output Power in FR1" R5-181831, "Discussion on test point selection for Minimum Output Power in FR1" R5-181832, "Discussion on test point selection for General ON/OFF Time Mask in FR1" R5-181879, "Discussion on test point selection for NR In-Band in FR1" R5-181880, "Discussion on test point selection for NR ACS in FR1" R5-182025, "Discussion on test point selection for NR Frequency Error in FR1"</p> <p>R5-181905, "Discussion on test point selection for NR Occupied Bandwidth in FR2" R5-182030, "Discussion on test point selection for NR ACLR in FR2" R5-182042, "Discussion on test point selection for NR In-Band blocking in FR2" R5-182044, "Discussion on test point selection for NR ACS in FR2"</p> | 0.1.0 |
| 2018-05 | RAN5#79 | R5-183078 | - | - | - | <p>Document title corrected.</p> <p>Agreed Text Proposal in RAN WG5#79: R5-183963, "Test Point analysis for FR1 RefSens test case"</p> | 0.2.0 |
| 2018-08 | RAN5#80 | R5-185134 | - | - | - | <p>R5-184923, "Test Point analysis for FR2 RefSense test case" R5-184961, "TP for updating TR 38.905 with FR2 Frequency Error test point analysis" R5-185307, "TP for updating TR38.905 with FR1 AMPR test point analyses with NS_35" R5-185309, "Test Point analysis for FR1 Configured Output Power for SUL" R5-185311, "TP for updating TR 38.905 with FR1 Carrier Leakage test point analysis" R5-185314, "TP for updating TR 38.905 with FR1 EVM equalizer spectrum flatness test point analysis" R5-185316, "TP for updating TR 38.905 with FR1 Frequency Error test point analysis" R5-185412, "TP for updating TR 38.905 with EVM test point analysis" R5-185491, "Test Point analysis for FR2 TxSpurious test case" R5-185215, "TP for updating TR 38.905 with FR2 SEM test point analysis" R5-185334, "Discussion of LTE Test point selection for EN-DC with FR1 Tx Spurious emission Test" R5-185301, "Discussion on test point selection for NR Out-of-band in FR1" R5-185423, "Discussion on Uplink configuration for NR Transmit Intermodulation in FR1" R5-185216, "TP for updating TR38.905 with UE AMPR for NS_04 Intra-band contiguous EN-DC" R5-185319, "TP for updating TR 38.905 with FR1 In-band Emissions test point analysis"</p> | 1.0.0 |
| 2018-09 | RAN#81 | - | - | - | - | raised to v15.0.0 with editorial changes only | 15.0.0 |
| 2018-12 | RAN#82 | R5-186454 | 0016 | - | F | TP analysis for test case 6.5.2.4.2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186455 | 0017 | - | F | TP analysis for EN-DC test case 6.2B.2.3 | 15.1.0 |

| | | | | | | | |
|---------|--------|-----------|------|---|---|--|--------|
| 2018-12 | RAN#82 | R5-186609 | 0018 | - | F | TP_analysis for TX spurious emission UE co-existence for intra-band contiguous EN-DC with FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186610 | 0019 | - | F | TP analysis for Reference sensitivity for Intra-band Contiguous EN-DC with FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186611 | 0020 | - | F | TP analysis for Reference sensitivity for Inter-band EN-DC with FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186674 | 0021 | - | F | Test point analysis for AMPR Intra-band contiguous EN-DC in FR1 for NS_35 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186710 | 0022 | - | F | TP analysis for test case 6.2B.2.4, UE Maximum Output Power reduction for Inter-Band EN-DC including FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186791 | 0028 | - | F | TP analysis OBW intraband contiguous EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-186792 | 0029 | - | F | TP analysis SEM intraband contiguous EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-187035 | 0031 | - | F | Update test points analysis for multiple FR1 test cases | 15.1.0 |
| 2018-12 | RAN#82 | R5-187396 | 0037 | - | F | Update of TR 38.905 with SA FR1 A-MPR test point analyses, NS_04 | 15.1.0 |
| 2018-12 | RAN#82 | R5-188240 | 0039 | 1 | F | Update of TR 38.905 with EN-DC A-MPR test point analyses, NS_04 | 15.1.0 |
| 2018-12 | RAN#82 | R5-188227 | 0041 | 1 | F | Test Point analysis for FR2 Maximum Output Power | 15.1.0 |
| 2018-12 | RAN#82 | R5-187489 | 0042 | - | F | TP analysis for FR1 test case 6.3.4.3, relative power tolerance | 15.1.0 |
| 2018-12 | RAN#82 | R5-187582 | 0043 | - | F | Discussion on test point selection for EVM in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187583 | 0044 | - | F | Discussion on test point selection for Carrier Leakage in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187584 | 0045 | - | F | Update of test point selection for EVM equalizer spectrum flatness in FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187587 | 0046 | - | F | Discussion on test point selection for In-band Emissions in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187589 | 0047 | - | F | Discussion on test point selection for EVM equalizer spectrum flatness in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187593 | 0048 | - | F | Discussion on test point selection for EVM equalizer spectrum flatness for Pi/2 BPSK in FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187806 | 0023 | 1 | F | Test Point analysis for FR1 7.4 Maximum input level | 15.1.0 |
| 2018-12 | RAN#82 | R5-187808 | 0035 | 1 | F | TP analysis for receiver spurious emission tests for FR1 SA | 15.1.0 |
| 2018-12 | RAN#82 | R5-187809 | 0036 | 1 | F | TP analysis for wideband intermodulation tests for FR1 SA | 15.1.0 |
| 2018-12 | RAN#82 | R5-187817 | 0033 | 1 | F | TP analysis for receiver spurious emission tests for FR1 inter-band EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-187818 | 0034 | 1 | F | TP analysis for wideband intermodulation tests for FR1 inter-band EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-187836 | 0025 | 1 | F | Test Point analysis for FR2 7.4 Maximum input level | 15.1.0 |
| 2018-12 | RAN#82 | R5-187907 | 0024 | 1 | F | Test Point analysis for FR1 MPR test case | 15.1.0 |
| 2019-03 | RAN#83 | R5-191257 | 0077 | - | F | Test Point analysis for TC 6.3.3.4 PRACH time mask in FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191260 | 0078 | - | F | Test Point analysis for NR Narrow band in FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191261 | 0079 | - | F | Test Point analysis for NR spurious response in FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191337 | 0081 | - | F | Adding test case 6.2B.2.1 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191678 | 0086 | - | F | Addition of TP analysis of FR2 6.3.1 Minimum output power | 15.2.0 |
| 2019-03 | RAN#83 | R5-191811 | 0087 | - | F | Test Point analysis update for FR2 TxSpurious test case | 15.2.0 |
| 2019-03 | RAN#83 | R5-191855 | 0091 | - | F | TP_analysis_38.905_6.5.3.1_TX_SpurEmission | 15.2.0 |
| 2019-03 | RAN#83 | R5-192002 | 0104 | - | F | Adding test case 7.4B.1 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192003 | 0105 | - | F | Adding test case 7.4B.2 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192007 | 0106 | - | F | Adding test case 6.2B.1.1 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192008 | 0107 | - | F | Adding test case 6.2B.1.2 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192009 | 0108 | - | F | Adding test case 6.2B.1.3 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192239 | 0116 | - | F | TP analysis of FR1 time alignment error for UL MIMO | 15.2.0 |
| 2019-03 | RAN#83 | R5-192401 | 0085 | 1 | F | Addition of TP analysis of FR1 6.2.4 Configured transmitted power | 15.2.0 |
| 2019-03 | RAN#83 | R5-192404 | 0099 | 1 | F | TP analysis for FR1 6.5A.2.4.1.1 NR ACLR for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192405 | 0100 | 1 | F | TP analysis for FR1 6.5A.2.4.2.1 UTRA ACLR for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192406 | 0103 | 1 | F | TP analysis for FR1 6.5A.4.1 Transmit intermodulation for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192410 | 0110 | 1 | F | Update of TP analysis of FR1 6.3.1 Minimum Output Power | 15.2.0 |
| 2019-03 | RAN#83 | R5-192444 | 0113 | 1 | F | Addition of TP analysis for EN-DC 6.2B.4.1.3 Configured transmitted power inter-band within FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192449 | 0080 | 1 | F | Adding FR2 test case 6.3.4.3 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192546 | 0082 | 1 | F | Test Point analysis for FR1 6.3.3.6 SRS time mask | 15.2.0 |
| 2019-03 | RAN#83 | R5-192568 | 0095 | 1 | F | TP analysis for FR1 6.4A.2.1.1 Error Vector Magnitude for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192569 | 0094 | 1 | F | TP analysis for FR1 6.4A.1.1 Frequency error for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192571 | 0096 | 1 | F | TP analysis for FR1 6.4A.2.2.1 Carrier leakage for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192572 | 0097 | 1 | F | TP analysis for FR1 6.4A.2.3.1 In-band emissions for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192573 | 0098 | 1 | F | TP analysis for FR1 6.5A.2.2.1 Spectrum emission mask for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192574 | 0101 | 1 | F | TP analysis for FR1 6.5A.3.1.1 General spurious emissions for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192575 | 0102 | 1 | F | TP analysis for FR1 6.5A.3.2.1 Spurious emissions for UE co-existence for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192582 | 0109 | 1 | F | Add Tp analysis statements for MIMO tests | 15.2.0 |
| 2019-03 | RAN#83 | R5-192599 | 0084 | 1 | F | Update of TP analysis of FR1 6.2.1 MOP | 15.2.0 |
| 2019-03 | RAN#83 | R5-192624 | 0115 | 1 | F | TP_analysis_38.905_6.5B.3_TX_SpurEmission | 15.2.0 |

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|---------|--------|-----------|------|---|---|--|--------|
| 2019-03 | RAN#83 | R5-192647 | 0092 | 1 | F | Addition of Test Point analysis of FR2 6.3.4.4 Aggregate power tolerance | 15.2.0 |
| 2019-03 | RAN#83 | R5-192684 | 0073 | 1 | F | TP analysis for FR1 Rx 7.9A.1 Spurious Emission for 2DL CA | 15.2.0 |
| 2019-03 | RAN#83 | R5-192691 | 0111 | 1 | F | Addition of TP analysis for EN-DC 6.2B.4.1.1 Configured transmitted power Intra-band contiguous | 15.2.0 |
| 2019-03 | RAN#83 | R5-192692 | 0112 | 1 | F | Addition of TP analysis for EN-DC 6.2B.4.1.2 Configured transmitted power Intra-band non-contiguous | 15.2.0 |
| 2019-03 | RAN#83 | R5-192846 | 0114 | 2 | F | Introduction of new section for TP analysis of Tx spurious | 15.2.0 |
| 2019-06 | RAN#84 | R5-193543 | 0137 | - | F | Additional TT analysis for 38.521-3 MPR intra-band contiguous | 15.3.0 |
| 2019-06 | RAN#84 | R5-193808 | 0147 | - | F | Addition of TP analysis for power control for UL-MIMO | 15.3.0 |
| 2019-06 | RAN#84 | R5-193916 | 0148 | - | F | Update of TP analysis of 6.2D.3 A-MPR for UL-MIMO | 15.3.0 |
| 2019-06 | RAN#84 | R5-193919 | 0149 | - | F | Add SA FR1 RF 6.5D.2.4.2 to 38.905 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194010 | 0151 | - | F | Test Point analysis update for FR2 TxSpurious UE coexistence test case | 15.3.0 |
| 2019-06 | RAN#84 | R5-194168 | 0152 | - | F | Updating Annex A; Derivation documents | 15.3.0 |
| 2019-06 | RAN#84 | R5-194169 | 0153 | - | F | Update of test points analysis for NS_35 A-MPR FR1 test case | 15.3.0 |
| 2019-06 | RAN#84 | R5-194170 | 0154 | - | F | Test point analysis for A-MPR Intra-band contiguous EN-DC; NS_04 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194257 | 0155 | - | F | TP analysis for Asymmetric CH BWs in Reference Sensitivity Requirements in FR1 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194402 | 0158 | - | F | Test Point analysis for EN-DC In-band emissions for intra-band contiguous | 15.3.0 |
| 2019-06 | RAN#84 | R5-194459 | 0160 | - | F | Update to TP analysis for FR2 Maximum Output Power | 15.3.0 |
| 2019-06 | RAN#84 | R5-194904 | 0142 | 1 | F | Addition of TP analysis for 38.521-1 7.6D.3 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194907 | 0163 | 1 | F | Addition of TP analysis for 38.521-1 6.3A.3 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194909 | 0164 | 1 | F | Addition of TP analysis for 38.521-1 6.3A.1 FR1 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194913 | 0165 | - | F | Addition of TP analysis for ACS for 2DL CA in FR1 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194914 | 0166 | - | F | Addition of TP analysis for FR1 MOP for CA | 15.3.0 |
| 2019-06 | RAN#84 | R5-194927 | 0162 | 1 | F | Addition of test frequency selection of spurious co-existence inter-band for DC 3-n79 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194931 | 0141 | 1 | F | Addition of TP analysis for 38.521-1 7.6D.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194932 | 0143 | 1 | F | Addition of TP analysis for 38.521-1 7.6D.4 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194933 | 0144 | 1 | F | Addition of TP analysis for 38.521-1 7.8D.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194959 | 0167 | - | F | Addition of TP analysis for UL-MIMO cases of 6.3D.1 and 6.3D.3 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194961 | 0157 | 1 | F | TP analysis for FR2 Tx 6.3A.1.1 Minimum output power for CA 2UL CA | 15.3.0 |
| 2019-06 | RAN#84 | R5-194963 | 0161 | 1 | F | Update SCS test points for FR2 ACS and Inband blocking test cases | 15.3.0 |
| 2019-06 | RAN#84 | R5-195146 | 0138 | 1 | F | Addition of TP analysis for SA FR2 6.2.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-195148 | 0139 | 1 | F | Addition of TP analysis for SA FR2 6.3.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-195190 | 0145 | 1 | F | TPanalysis of 7.7D Spurious response for UL-MIMO | 15.3.0 |
| 2019-06 | RAN#84 | R5-193730 | 0146 | - | F | Addition of test frequency selection of 6.5A.3.2 for Rel-16 CA_n41A-n79A | 16.0.0 |
| 2019-06 | RAN#84 | R5-195055 | 0150 | 1 | F | Addition of test frequency selection of 6.5B.3.3.2 spurious co-existence inter-band for Rel-16 DC configurations | 16.0.0 |
| 2019-09 | RAN#85 | R5-196435 | 0184 | - | F | Update of TP analysis of FR2 minimum output power to add UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-196445 | 0185 | - | F | Correction of 4.5 to add DC_3A-n41 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197315 | 0175 | 1 | F | Addition of TP analysis for FR1 MPR for CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197317 | 0176 | 1 | F | Addition of TP analysis for FR1 ConfigTP for CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197320 | 0179 | 1 | F | Addition of TP analysis of FR1 6.4D.2.1 EVM for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197322 | 0180 | 1 | F | Addition of TP analysis of FR1 6.4D.2.2 Carrier leakage for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197323 | 0181 | 1 | F | Addition of TP analysis of FR1 6.4D.2.3 Inband emission for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197325 | 0182 | 1 | F | Addition of TP analysis of FR1 6.4D.2.4 EVM equalizer spectrum flatness for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197326 | 0186 | 1 | F | Test Point analysis for Occupied bandwidth for 2UL CA in FR1 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197524 | 0187 | 1 | F | TP_analysis_38.905_7.3A_CA_ref_sensitivity | 16.1.0 |
| 2019-09 | RAN#85 | R5-197589 | 0168 | 1 | F | New addition of TP analysis for MOP & MOP Spherical Coverage for UL CA in SA FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197590 | 0169 | 1 | F | New addition of TP analysis for Carrier leakage for UL CA in SA FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197591 | 0170 | 1 | F | Adding test case 6.5B.2.1.3 to 38.905 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197592 | 0173 | 1 | F | Addition of TP analysis of FR2 6.6 Beam Correspondence | 16.1.0 |
| 2019-09 | RAN#85 | R5-197593 | 0174 | 1 | F | Test Point analysis update for FR2 Tx Spurious test case | 16.1.0 |
| 2019-09 | RAN#85 | R5-197594 | 0177 | 1 | F | Addition of TP analysis of FR1 Maximum input level for CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197595 | 0178 | 1 | F | Addition of TP analysis of FR1 6.4D.1 Frequency error for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197596 | 0183 | 1 | F | Addition of TP analysis of FR2 6.2A.2 MPR for 2 UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197597 | 0191 | 1 | F | Addition of TP analysis for FR2 AMPR with NS_201 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197628 | 0192 | 2 | F | Updates of TP analysis for EN-DC MPR test case 6.2.B.2.1 | 16.1.0 |
| 2019-12 | RAN#86 | R5-198384 | 0203 | | F | Addition of TP analysis of FR2 6.6 Beam Correspondence v1 | 16.2.0 |
| 2019-12 | RAN#86 | R5-198392 | 0205 | | F | Addition of TP analysis of FR2 6.3D.3.4 SRS time mask for UL-MIMO | 16.2.0 |
| 2019-12 | RAN#86 | R5-198490 | 0206 | | F | TPanalysis of TC 7.5B.1 ACS for intra-band contiguous EN-DC 2CCs | 16.2.0 |

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| 2019-12 | RAN#86 | R5-198523 | 0208 | | F | Test points analysis for NS_03 A-MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-198527 | 0210 | | F | Test points analysis for NS_43 and NS_43U A_MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199326 | 0209 | 1 | F | Test points analysis for NS_05 and NS_05U A_MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199327 | 0211 | 1 | F | Test points analysis for NS_100 A_MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199328 | 0200 | 1 | F | Addition of test point analysis for SA FR1 TC 7.6A.3 Out-of-band blocking for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199372 | 0197 | 1 | F | Update of test point analysis for SA FR2 TC 6.2.2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199410 | 0199 | 1 | F | Update of test point analysis for SA FR1 TC 6.2.2 to add almost contiguous allocation test points | 16.2.0 |
| 2019-12 | RAN#86 | R5-199487 | 0202 | 1 | F | Addition of test point analysis for SA FR1 TC 7.8A Wide band Intermodulation for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199488 | 0201 | 1 | F | Addition of test point analysis for SA FR1 TC 7.6A.4 Narrow band blocking for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199489 | 0207 | 1 | F | Addition of TP analysis for ACS for 3DL CA in FR1 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199501 | 0198 | 1 | F | Update of test point analysis for SA FR1 TC 6.5.2.4.2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199507 | 0196 | 1 | F | TP analysis for test case 6.2B.2.2, UE Maximum Output Power reduction for Intra-Band Non-Contiguous EN-DC | 16.2.0 |
| 2019-12 | RAN#86 | R5-199509 | 0194 | 1 | F | TP analysis for MOP for EN-DC | 16.2.0 |
| 2019-12 | RAN#86 | R5-199549 | 0204 | 1 | F | Addition to TP analysis of FR2 TC 6.3A.4.2.1 Absolute Power Control for CA | 16.2.0 |
| 2020-03 | RAN#87 | R5-200402 | 0215 | - | F | Updating TP of MOP for inter-band EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-200412 | 0221 | - | F | Editorial change of replacing zip file of FR2 6.3.1 by v2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200419 | 0222 | - | F | Update of test point analysis for 7.6A.3 Out-of-band blocking for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200459 | 0223 | - | F | Update of test point analysis for 7.6A.4 Narrow band blocking for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200460 | 0224 | - | F | Update of test point analysis for 7.8A Wide band Intermodulation for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200574 | 0226 | - | F | Addition of Test point selection for FR1 in SUL test cases | 16.3.0 |
| 2020-03 | RAN#87 | R5-200603 | 0227 | - | F | Test Point analysis for FR2 ref sens for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200758 | 0229 | - | F | Correction of NS_05 test points analysis | 16.3.0 |
| 2020-03 | RAN#87 | R5-200762 | 0231 | - | F | Test points analysis for NS_38 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200764 | 0232 | - | F | Test points analysis for NS_39 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200766 | 0233 | - | F | Test points analysis for NS_43 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200768 | 0234 | - | F | Test points analysis for NS_43U A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200799 | 0236 | - | F | Updated test point analysis for FR2 A-MPR test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200815 | 0237 | - | F | Update of Test Point Analysis for UE Coexistence for DC_3A-n41A and DC_8A-n41A | 16.3.0 |
| 2020-03 | RAN#87 | R5-200990 | 0238 | 1 | F | Addition of TP analysis for FR1 In-band blocking for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-201182 | 0216 | 1 | F | Updating TP of configured output power for inter-band EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-201184 | 0218 | 1 | F | Updating TP of configured output power for intra-band contiguous EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-201186 | 0220 | 1 | F | Updating TP of configured output power for intra-band non-contiguous EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-201237 | 0230 | 1 | F | Test points analysis for NS_37 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-201239 | 0235 | 1 | F | Test points analysis for NS_18 A-MPR FR1 test case | 16.3.0 |
| 2020-06 | RAN#88 | R5-201746 | 0242 | - | F | Addition of Number of test points for FR1 in SUL test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-201747 | 0243 | - | F | Addition of TP analysis for FR1 A-MPR for CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201765 | 0246 | - | F | Test points analysis for NS_27 A_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-201767 | 0247 | - | F | Test points analysis for NS_40 A_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-201773 | 0250 | - | F | Test points analysis for NS_47 A_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-201871 | 0253 | - | F | Update of test points analysis in UE co-existence for inter-band EN-DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-201872 | 0254 | - | F | Update of Test Point Analysis for UE Co-existence for DC_5A-n66A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201873 | 0255 | - | F | Update of Test Point Analysis for UE Co-existence for DC_5A-n78A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201874 | 0256 | - | F | Update of Test Point Analysis for UE Co-existence for DC_66A-n5A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201875 | 0257 | - | F | Update of Test Point Analysis for UE Co-existence for DC_66A-n78A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201929 | 0258 | - | F | Cleanup in 38.905 | 16.4.0 |
| 2020-06 | RAN#88 | R5-201931 | 0260 | - | F | Combined TP analysis for MPR, ACLR and SEM intra-band contiguous EN-DC test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202029 | 0261 | - | F | Introduction of test point analysis for 2CCs EN-DC TCs in FR1 in 7.6B Blocking characteristics for DC and 7.7B Spurious response for DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-202111 | 0262 | - | F | NS_24 TP analysis to TR 38.905 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202524 | 0267 | - | F | TP_analysis_6.5.3.3_TX_Additional_SpurEmission_NS_43 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202755 | 0248 | 1 | F | Test points analysis for NS_41 A_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-202756 | 0249 | 1 | F | Test points analysis for NS_42 A_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-202757 | 0264 | 1 | F | TP_analysis_6.5.3.3_TX_Additional_SpurEmission_NS_05 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202918 | 0239 | 1 | F | Test Point analysis for FR2 Frequency Error for CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202926 | 0266 | 1 | F | Addition of TPanalysis 6.5A.3.2.1_SECoex for CA_n1A-n78A | 16.4.0 |
| 2020-06 | RAN#88 | R5-202932 | 0244 | 1 | F | Addition of TP analysis for FR1 Maximum input level for 3DL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202933 | 0245 | 1 | F | Addition of TP analysis for FR1 In-band blocking for 3DL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202952 | 0251 | 1 | F | Updating TP of MOP for intra-band contiguous EN-DC | 16.4.0 |

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| 2020-06 | RAN#88 | R5-202953 | 0252 | 1 | F | Updating TP of MOP for intra-band non-contiguous EN-DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-202954 | 0259 | 1 | F | Combined TP analysis for MPR, NR ACLR and SEM FR1 test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202955 | 0263 | 1 | F | Updated TP analysis for 7.3A Reference sensitivity for CA | 16.4.0 |
| 2020-09 | RAN#89 | R5-203642 | 0269 | - | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_40A_n1A | 16.5.0 |
| 2020-09 | RAN#89 | R5-203643 | 0270 | - | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_40A_n78A | 16.5.0 |
| 2020-09 | RAN#89 | R5-203751 | 0275 | - | F | Editorial correction to references to EN-DC configurations | 16.5.0 |
| 2020-09 | RAN#89 | R5-204720 | 0299 | 1 | F | Add_TP_analysis_table_for_TX_spurious_emission | 16.5.0 |
| 2020-09 | RAN#89 | R5-204726 | 0278 | 1 | F | Addition of test point analysis in Tx spurious emissions | 16.5.0 |
| 2020-09 | RAN#89 | R5-204727 | 0273 | 1 | F | Updating TP analysis for 6.2A.2-MPR for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204728 | 0279 | 1 | F | Update of test point analysis of MOP for intra-band contiguous EN-DC | 16.5.0 |
| 2020-09 | RAN#89 | R5-204789 | 0271 | 1 | F | Update of TP analysis for NS_43 and NS_01 in FR1 A-MPR for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204790 | 0272 | 1 | F | Update of TP analysis for NS_43U and NS_01 in FR1 A-MPR for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204791 | 0280 | 1 | F | Updating test point analysis for DC_1A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204792 | 0281 | 1 | F | Updating test point analysis for DC_2A-n66A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204793 | 0282 | 1 | F | Updating test point analysis for DC_2A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204794 | 0283 | 1 | F | Updating test point analysis for DC_3A-n7A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204795 | 0284 | 1 | F | Updating test point analysis for DC_3A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204796 | 0285 | 1 | F | Updating test point analysis for DC_7A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204797 | 0292 | 1 | F | Correction to test point analysis for spurious emissions UE co-existence for a few inter-band EN-DC configurations | 16.5.0 |
| 2020-09 | RAN#89 | R5-204817 | 0286 | 1 | F | Updating test point analysis for DC_3A-n1A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204818 | 0287 | 1 | F | Updating test point analysis for DC_7A-n1A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204819 | 0288 | 1 | F | Updating test point analysis for DC_7A-n66A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204820 | 0289 | 1 | F | Updating test point analysis for DC_8A-n1A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204821 | 0290 | 1 | F | Updating test point analysis for DC_12A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204822 | 0291 | 1 | F | Updating test point analysis for DC_28A-n3A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204829 | 0293 | 1 | F | Addition of test point analysis for AMPR NS_48 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204838 | 0274 | 1 | F | Updating TP analysis for 6.2A.4-Configured output power for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204948 | 0295 | 1 | F | Addition of Test Point analysis for FR2 Transmit OFF Power for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204949 | 0298 | 1 | F | TP analysis 6.5B.3 TX SpurEmission EN-DC V2 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204950 | 0300 | 1 | F | Updated TP analysis for 7.3B Reference sensitivity for EN-DC in FR1 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204959 | 0301 | 1 | F | Update of TP analysis 6.5A.3.2.1_SECoex for CA_n1A-n78A | 16.5.0 |
| 2020-09 | RAN#89 | R5-204963 | 0276 | 1 | F | Update test point analysis for A-MPR NS_18 with CBW being 30MHz | 16.5.0 |
| 2020-09 | RAN#89 | R5-204964 | 0294 | 1 | F | Addition of test point analysis for additional spurious emission with NS_17 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204982 | 0268 | 2 | F | Updated TP analysis for 7.3A | 16.5.0 |
| 2020-12 | RAN#90 | R5-205264 | 0303 | - | F | Addition of Test Point analysis for 6.3A.4.1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205265 | 0304 | - | F | Addition of Test Point analysis for 6.3A.4.2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205267 | 0305 | - | F | Addition of Test Point analysis for 6.3A.4.3 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205558 | 0309 | - | F | Adding test point analysis for A-MPR test of band n30 with NS_21 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205619 | 0312 | - | F | Addition of TP Analysis for TC 6.5A.2.1 Spectrum Emission Mask for CA in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205630 | 0313 | - | F | Addition of TP Analysis for TC 6.5A.2.2 Adjacent channel leakage ratio for CA in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205780 | 0318 | - | F | Addition of test point analysis for DC_2A_n5A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205781 | 0319 | - | F | Addition of test point analysis for DC_8A_n78A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205782 | 0320 | - | F | Addition of test point analysis for DC_12A_n66A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205783 | 0321 | - | F | Addition of test point analysis for DC_30A_n5A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205785 | 0322 | - | F | Addition of test point analysis for DC_13A_n66A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205885 | 0329 | - | F | Addition of test point analysis for A-MPR NS_46 | 16.6.0 |

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| 2020-12 | RAN#90 | R5-206037 | 0333 | - | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_20A_n3A | 16.6.0 |
| 2020-12 | RAN#90 | R5-206729 | 0332 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_1A_n3A | 16.6.0 |
| 2020-12 | RAN#90 | R5-206752 | 0302 | 1 | F | Addition of test point analysis for A-MPR NS_45 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206769 | 0325 | 1 | F | Update of test point analysis for Tx spurious emissions in NR FR1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206853 | 0328 | 1 | F | Update to test point analysis for A-MPR NS_18 with 30MHz | 16.6.0 |
| 2020-12 | RAN#90 | R5-206854 | 0314 | 1 | F | Updating TP analysis for OBW for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206855 | 0316 | 1 | F | Updating TP analysis for Maximum input level for 3DL CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206856 | 0317 | 1 | F | Updating TP analysis for Inband blocking for 3DL CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206857 | 0323 | 1 | F | Update of test point analysis for MPR, SEM and ACLR in NR FR1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206858 | 0324 | 1 | F | Update of test point analysis for MOP in FR1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206873 | 0310 | 1 | F | Restructuring of TR 38.905. | 16.6.0 |
| 2020-12 | RAN#90 | R5-206874 | 0311 | 1 | F | Combined TP analysis for FR2 test cases MPR, ACLR and SEM | 16.6.0 |
| 2020-12 | RAN#90 | R5-206875 | 0331 | 1 | F | Update of TPA for in-band emission and carrier leakage TCs | 16.6.0 |
| 2020-12 | RAN#90 | R5-206876 | 0336 | 1 | F | Update of test point analysis for occupied bandwidth in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206893 | 0315 | 1 | F | Updating TP analysis for REFSENS for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206917 | 0330 | 1 | F | Updated TP analysis for 7.3B Reference sensitivity for EN-DC in FR1 | 16.6.0 |
| 2021-03 | RAN#91 | R5-210383 | 0343 | - | F | Correct a typo of 6.3A.4.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210512 | 0344 | - | F | Introduction of test point analysis for SA FR2 7.4A Maximum input level for CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-210740 | 0347 | - | F | Updating TP analysis of FR1 A-MPR for NS_48 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210742 | 0348 | - | F | Adding TP analysis of FR1 A-MPR for NS_49 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210743 | 0349 | - | F | Resubmitting TP analysis of FR1 A-MPR for NS_44 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210791 | 0353 | - | F | Adding TP selection for 6.4C.2 Transmit modulation quality for SUL | 16.7.0 |
| 2021-03 | RAN#91 | R5-210900 | 0354 | - | F | Updating TP analysis for Spurious Emissions for CA in FR1 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210905 | 0356 | - | F | Updating TP analysis for FR1 REFSENS for SUL testing | 16.7.0 |
| 2021-03 | RAN#91 | R5-210963 | 0362 | - | F | Spur emission TP analysis R16 DC_5A_n2A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211018 | 0368 | - | F | TP analysis for test case 6.5D.2_1.4.2, UTRA ACLR for UL MIMO (Rel-16 onward) | 16.7.0 |
| 2021-03 | RAN#91 | R5-211134 | 0380 | - | F | TP analysis for ULFP Tx in MPR test case | 16.7.0 |
| 2021-03 | RAN#91 | R5-211230 | 0389 | - | F | NS_12, NS_13, NS_14, NS_15 TP analysis to 38.905 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211733 | 0340 | 1 | F | Updated TP analysis for 7.3B Reference sensitivity for EN-DC in FR1 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211734 | 0341 | 1 | F | TP analysis for 38.521-3 test case 6.5B.2.2.1 SEM Intra-band non-contiguous | 16.7.0 |
| 2021-03 | RAN#91 | R5-211735 | 0342 | 1 | F | TP analysis for 38.521-3 test case 6.5B.2.2.3 ACLR Intra-band non-contiguous | 16.7.0 |
| 2021-03 | RAN#91 | R5-211736 | 0345 | 1 | F | Update of test point analysis for FR2 UL CA frequency error test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211737 | 0369 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_8A_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211738 | 0370 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_11A_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211739 | 0371 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_11A_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211740 | 0372 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_11A_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211741 | 0373 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_25A_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211742 | 0374 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_26A_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211743 | 0375 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_26A_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211744 | 0376 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_26A_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211745 | 0377 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_26A_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211746 | 0378 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_41A_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211747 | 0379 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_41A_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211748 | 0388 | 1 | F | Test Point analysis update for FR2 Tx additional spurious emission test case | 16.7.0 |
| 2021-03 | RAN#91 | R5-211774 | 0337 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_7A_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211775 | 0338 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_8A_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211776 | 0339 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_20A_n1A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211777 | 0361 | 1 | F | Spur emission TP analysis R16 DC_2A_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211778 | 0363 | 1 | F | Spur emission TP analysis R16 DC_13A_n2A | 16.7.0 |

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| 2021-03 | RAN#91 | R5-211779 | 0364 | 1 | F | Spur emission TP analysis R16 DC_48A_n5A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211780 | 0365 | 1 | F | Spur emission TP analysis R16 DC_48A_n66A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211781 | 0366 | 1 | F | Spur emission TP analysis R16 DC_66A_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211809 | 0350 | 1 | F | Adding TP analysis for Rel-16 DMRS in A-MPR test case | 16.7.0 |
| 2021-03 | RAN#91 | R5-211810 | 0351 | 1 | F | Update of TP analysis for EVM equalizer spectrum flatness for half Pi BPSK | 16.7.0 |
| 2021-03 | RAN#91 | R5-211811 | 0352 | 1 | F | Update of TP analysis for FR1 SUL test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211893 | 0346 | 1 | F | Update of test point analysis for FR2 MPR, SEM and ACLR test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211894 | 0359 | 1 | F | Addition of reference sensitivity test point analyses for FR1 NR CA and EN-DC | 16.7.0 |
| 2021-03 | RAN#91 | R5-211895 | 0360 | 1 | F | Moving of principles for reference sensitivity test point selection from attachments to annexes | 16.7.0 |
| 2021-03 | RAN#91 | R5-211897 | 0382 | 1 | F | TP analysis for DC_8A_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211898 | 0383 | 1 | F | TP analysis for DC_11A_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211899 | 0384 | 1 | F | TP analysis for DC_26A_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211900 | 0385 | 1 | F | TP analysis for DC_26A_n77A and DC_26A_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211901 | 0386 | 1 | F | TP analysis for DC_26A_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211902 | 0387 | 1 | F | TP analysis for DC_41A_n77A and DC_41A_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211906 | 0390 | 1 | F | Reference sensitivity TP analysis for DC_1A-28A_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211907 | 0391 | 1 | F | Reference sensitivity analysis for DC_3A-7A_n1A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211908 | 0392 | 1 | F | Reference sensitivity TP analysis for DC_7A-20A_n1A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211909 | 0393 | 1 | F | Reference sensitivity TP analysis for DC_7A-28A_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211914 | 0358 | 1 | F | Adding TP analysis for NR test case-Time mask for UL carrier switching | 16.7.0 |
| 2021-03 | RAN#91 | - | - | - | - | Administrative release upgrade to match the release of TS 38.508-1, TS 38.508-2 and TS 38.521-1 which were upgraded at RAN#91 to Rel-17 due to Rel-17 relevant CRs | 17.0.0 |
| 2021-06 | RAN#92 | R5-212519 | 0397 | - | F | Update of test point analysis for FR2 Occupied Bandwidth for UL MIMO test case | 17.1.0 |
| 2021-06 | RAN#92 | R5-212524 | 0400 | - | F | Spurious emission TP analysis for Rel-15 EN-DC configuration DC_66A_n71A | 17.1.0 |
| 2021-06 | RAN#92 | R5-212929 | 0405 | - | F | Addition of TP analysis of V2X MPR, SEM and ACLR non-concurrent | 17.1.0 |
| 2021-06 | RAN#92 | R5-212930 | 0406 | - | F | Addition of TP analysis of 6.3E.1 V2X minimum output power non-concurrent | 17.1.0 |
| 2021-06 | RAN#92 | R5-212982 | 0407 | - | F | Addition of TP analysis for CA_n28A-n41A in Tx Spurious Emission cases | 17.1.0 |
| 2021-06 | RAN#92 | R5-212990 | 0409 | - | F | Updating TP analysis for UTRA ACLR MIMO testing for band n1 | 17.1.0 |
| 2021-06 | RAN#92 | R5-213024 | 0411 | - | F | Correction to test points selection for intra-band EN-DC spurious emissions testing | 17.1.0 |
| 2021-06 | RAN#92 | R5-213053 | 0421 | - | F | TP analysis for 6.2.4 updated for eMIMO | 17.1.0 |
| 2021-06 | RAN#92 | R5-213114 | 0428 | - | F | Correction of test coverage clause numbering | 17.1.0 |
| 2021-06 | RAN#92 | R5-213946 | 0396 | 1 | F | Introduction of test point analysis for FR2 CA Error Vector Magnitude test case | 17.1.0 |
| 2021-06 | RAN#92 | R5-213947 | 0401 | 1 | F | Spurious emission TP analysis for Rel-15 EN-DC configuration DC_2A_n71A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213948 | 0403 | 1 | F | Addition of test points analysis for NS_06 FR1 test cases | 17.1.0 |
| 2021-06 | RAN#92 | R5-213949 | 0413 | 1 | F | Correction to test points selection for inter-band EN-DC co-existence spurious emissions testing | 17.1.0 |
| 2021-06 | RAN#92 | R5-213950 | 0414 | 1 | F | Update of TP analysis for general spurious emissions for DC_3A_n7A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213951 | 0415 | 1 | F | Update of TP analysis for general spurious emissions for DC_3A_n78A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213952 | 0416 | 1 | F | Update of TP analysis for general spurious emissions for DC_8A_n77A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213953 | 0417 | 1 | F | Update of TP analysis for general spurious emissions for DC_12A_n66A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213954 | 0418 | 1 | F | Update of TP analysis for general spurious emissions for DC_26A_n41A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213955 | 0419 | 1 | F | Update of TP analysis for general spurious emissions for DC_26A_n79A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213956 | 0420 | 1 | F | Update of TP analysis for general spurious emissions for DC_30A_n5A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213957 | 0422 | 1 | F | Update of test point analysis for FR2 MPR SEM and ACLR UL-MIMO test cases | 17.1.0 |
| 2021-06 | RAN#92 | R5-213958 | 0423 | 1 | F | TP analysis for DC_11A_n77A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213959 | 0424 | 1 | F | TP analysis for DC_11A_n78A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213960 | 0425 | 1 | F | TP analysis for DC_25A_n41A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213961 | 0426 | 1 | F | TP analysis for DC_42A_n77A | 17.1.0 |
| 2021-06 | RAN#92 | R5-213962 | 0427 | 1 | F | General TP analysis update for NR CA retests | 17.1.0 |
| 2021-06 | RAN#92 | R5-214070 | 0402 | 1 | F | Correction of power control in 38.905 | 17.1.0 |
| 2021-06 | RAN#92 | R5-214071 | 0429 | 1 | F | Test Point analysis for FR2 Tx spurious emission CA test case | 17.1.0 |

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| 2021-06 | RAN#92 | R5-214073 | 0398 | 1 | F | Spurious emission TP analysis for Rel-16 EN-DC configuration DC_14A_n2A | 17.1.0 |
| 2021-06 | RAN#92 | R5-214074 | 0399 | 1 | F | Spurious emission TP analysis for Rel-16 EN-DC configuration DC_14A_n66A | 17.1.0 |
| 2021-06 | RAN#92 | R5-214093 | 0412 | 1 | F | Correction to test points selection for inter-band EN-DC general spurious emissions testing | 17.1.0 |
| 2021-09 | RAN#93 | R5-214245 | 0431 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_1A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214246 | 0432 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_1A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214247 | 0433 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_3A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214248 | 0434 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_3A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214249 | 0435 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_7A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214250 | 0436 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_19A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214251 | 0437 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_19A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214252 | 0438 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_19A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214253 | 0439 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_20A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214255 | 0441 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_21A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214256 | 0442 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_21A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214257 | 0443 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_21A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214258 | 0444 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_28A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214260 | 0446 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_28A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214261 | 0447 | - | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_42A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214262 | 0448 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_1A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214263 | 0449 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_3A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214264 | 0450 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_5A_n66A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214265 | 0451 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_5A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214266 | 0452 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_7A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214267 | 0453 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_11A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214268 | 0454 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_11A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214269 | 0455 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_11A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214271 | 0457 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_26A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214272 | 0458 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_26A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214273 | 0459 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_39A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214274 | 0460 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_41A_n77A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214275 | 0461 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_41A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214276 | 0462 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_41A_n79A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214277 | 0463 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_66A_n5A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214278 | 0464 | - | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_66A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214315 | 0465 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_40A_n1A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214316 | 0466 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_40A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-214385 | 0467 | - | F | Introduction of NR FR2 Test Points For Aggregate power tolerance for CA | 17.2.0 |

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| 2021-09 | RAN#93 | R5-214721 | 0468 | - | F | Adding TP analysis for test case 6.5D.1_1 | 17.2.0 |
| 2021-09 | RAN#93 | R5-214907 | 0469 | - | F | Introduction of test point analysis for FR2 Time alignment error for UL MIMO test case | 17.2.0 |
| 2021-09 | RAN#93 | R5-215076 | 0473 | - | F | Addition of TP analysis of V2X MPR, SEM and ACLR non-concurrent with SL-MIMO | 17.2.0 |
| 2021-09 | RAN#93 | R5-215077 | 0474 | - | F | Addition of TP analysis of V2X minimum output power for non-concurrent with SL-MIMO | 17.2.0 |
| 2021-09 | RAN#93 | R5-215164 | 0475 | - | F | Addition of test points analysis for NS_06 power class 1 test cases | 17.2.0 |
| 2021-09 | RAN#93 | R5-215219 | 0479 | - | F | Update of TP analysis for general spurious emissions for DC_12A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215220 | 0480 | - | F | Update of TP analysis for general spurious emissions for DC_28A_n3A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215229 | 0483 | - | F | Correction to TP analysis for in-band emission for intra-band contiguous EN-DC | 17.2.0 |
| 2021-09 | RAN#93 | R5-215236 | 0484 | - | F | Addition of reference sensitivity TP analysis for DC_1A_n28A-n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215237 | 0485 | - | F | Addition of reference sensitivity TP analysis for DC_1A-3A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215238 | 0486 | - | F | Addition of reference sensitivity TP analysis for DC_1A-7A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215239 | 0487 | - | F | Addition of reference sensitivity TP analysis for DC_3A-7A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215293 | 0492 | - | F | Updating Test point analysis for DC_3A-20A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215302 | 0495 | - | F | Updating TP analysis for Relative power tolerance for CA | 17.2.0 |
| 2021-09 | RAN#93 | R5-215304 | 0496 | - | F | Updating TP analysis for Aggregate power tolerance for CA | 17.2.0 |
| 2021-09 | RAN#93 | R5-215306 | 0497 | - | F | Updating TP analysis for Occupied bandwidth for CA | 17.2.0 |
| 2021-09 | RAN#93 | R5-215327 | 0498 | - | F | TP analysis for FR2 General ON OFF time mask | 17.2.0 |
| 2021-09 | RAN#93 | R5-215336 | 0499 | - | F | Correction to TP analysis for FR1 A-SPR with NS_17 | 17.2.0 |
| 2021-09 | RAN#93 | R5-215543 | 0502 | - | F | Update_TP_analysis for Rel_16_DC_14A_n2A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215545 | 0503 | - | F | Update_TP_analysis for Rel_16_DC_13A_n2A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215547 | 0504 | - | F | Update_TP_analysis for Rel_15_DC_2A_n71A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215550 | 0505 | - | F | Update_TP_analysis for Rel_15_DC_66A_n71A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215919 | 0440 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_20A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215920 | 0456 | 1 | F | Update of spurious emission TP analysis for Rel-15 EN-DC configuration DC_25A_n41A | 17.2.0 |
| 2021-09 | RAN#93 | R5-215921 | 0471 | 1 | F | Addition of TP analysis for spurious emissions for DC_28A_n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216014 | 0430 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC_1A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216017 | 0477 | 1 | F | Update of TP analysis for general spurious emissions for DC_3A_n41A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216018 | 0481 | 1 | F | Update of TP analysis for general spurious emissions for DC_39A_n41A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216019 | 0482 | 1 | F | Update of TP analysis for general spurious emissions for DC_40A_n41A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216020 | 0507 | 1 | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_8A_n41A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216056 | 0472 | 1 | F | Addition of TP for REFSENS for inter-band EN-DC 2CC and 3CC combos | 17.2.0 |
| 2021-09 | RAN#93 | R5-216057 | 0488 | 1 | F | Correction to TP analysis for reference sensitivity per EN-DC configuration | 17.2.0 |
| 2021-09 | RAN#93 | R5-216058 | 0489 | 1 | F | Correction to Annex D Principles for test point selection for EN-DC reference sensitivity test cases | 17.2.0 |
| 2021-09 | RAN#93 | R5-216059 | 0490 | 1 | F | Updating Test point analysis for DC_3A_n28A-n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216060 | 0491 | 1 | F | Updating Test point analysis for DC_7A_n28A-n78A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216061 | 0493 | 1 | F | Updating Test point analysis for DC_7A-20A_n28A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216062 | 0501 | 1 | F | Defining TP analysis for MPR, SEM and ACLR for FR2 UL MIMO | 17.2.0 |
| 2021-09 | RAN#93 | R5-216064 | 0500 | 1 | F | Update_TP_analysis for Rel_16_DC_14A_n66A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216068 | 0494 | 1 | F | Updating TP analysis for Absolute power tolerance for CA | 17.2.0 |
| 2021-09 | RAN#93 | R5-216109 | 0506 | 1 | F | TP analysis for ref sensitivity DC_48A_n66A | 17.2.0 |
| 2021-09 | RAN#93 | R5-216142 | 0476 | 1 | F | Correction to IE and UE capability for low PAPR DMRS in test point analysis | 17.2.0 |
| 2021-12 | RAN#94 | R5-216513 | 0508 | - | F | TP analysis update for FR1 6.2.3 AMPR NS_27 | 17.3.0 |
| 2021-12 | RAN#94 | R5-216516 | 0509 | - | F | TP analysis update for IBNC EN-DC 6.2B.2.2_MPR 6.5B.2.2.1_SEM 6.5B.2.2.3_ACLR | 17.3.0 |
| 2021-12 | RAN#94 | R5-216547 | 0511 | - | F | TP analysis for FR2 DL 256QAM to Maximum input level | 17.3.0 |
| 2021-12 | RAN#94 | R5-216548 | 0512 | - | F | TP analysis for FR2 DL 256QAM to Maximum input level for CA | 17.3.0 |
| 2021-12 | RAN#94 | R5-217164 | 0515 | - | F | TP analysis for ref sensitivity for DC_66A_n2A | 17.3.0 |
| 2021-12 | RAN#94 | R5-217165 | 0516 | - | F | TP analysis for ref sensitivity for DC_66A_n78A | 17.3.0 |
| 2021-12 | RAN#94 | R5-217166 | 0517 | - | F | TP analysis for ref sensitivity for DC_66A_n71A | 17.3.0 |
| 2021-12 | RAN#94 | R5-217190 | 0520 | - | F | Test Point analysis for FR2 Tx spur emission coex CA test case | 17.3.0 |
| 2021-12 | RAN#94 | R5-217301 | 0521 | - | F | Addition of reference sensitivity TP analysis for DC_1A-20A_n28A | 17.3.0 |
| 2021-12 | RAN#94 | R5-217302 | 0522 | - | F | Addition of reference sensitivity TP analysis for DC_3A_n78C | 17.3.0 |
| 2021-12 | RAN#94 | R5-217303 | 0523 | - | F | Addition of reference sensitivity TP analysis for DC_20A_n28A-n78A | 17.3.0 |
| 2021-12 | RAN#94 | R5-217306 | 0524 | - | F | Editorial correction to Annex 2.10.3 test point selection EN-DC reference sensitivity | 17.3.0 |

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| 2021-12 | RAN#94 | R5-217307 | 0525 | - | F | Update of TP analysis for general spurious emissions for DC_8A_n78A | 17.3.0 |
| 2021-12 | RAN#94 | R5-217561 | 0526 | - | F | Update of test point analysis for carrier leakage in FR2 | 17.3.0 |
| 2021-12 | RAN#94 | R5-217604 | 0527 | - | F | Addition of TP analysis of V2X MOP 6.2E.1.x | 17.3.0 |
| 2021-12 | RAN#94 | R5-218200 | 0532 | - | F | TP analysis for ref sensitivity for DC_41A_n77A and DC_41A_n78A | 17.3.0 |
| 2021-12 | RAN#94 | R5-218276 | 0513 | 1 | F | Update_TP_analysis for Rel_16_DC_14A_n2A | 17.3.0 |
| 2021-12 | RAN#94 | R5-218277 | 0514 | 1 | F | Update_TP_analysis for Rel_16_DC_14A_n66A | 17.3.0 |
| 2021-12 | RAN#94 | R5-218306 | 0528 | 1 | F | Addition of TP analysis of V2X MPR 6.2E.2.x | 17.3.0 |
| 2021-12 | RAN#94 | R5-218364 | 0510 | 1 | F | Addition of TP analysis of A-MPR and ASE for NS_56 | 17.3.0 |
| 2021-12 | RAN#94 | R5-218409 | 0531 | 1 | F | Update of test point analysis for relative power tolerance in FR2 | 17.3.0 |
| 2021-12 | RAN#94 | R5-218445 | 0518 | 1 | F | TP analysis for ref sensitivity for DC_2A_n71A | 17.3.0 |
| 2021-12 | RAN#94 | R5-218446 | 0519 | 1 | F | TP analysis for ref sensitivity for DC_5A_n66A | 17.3.0 |
| 2021-12 | RAN#94 | R5-218447 | 0530 | 1 | F | TP analysis update for A-MPR and A-Spurious test cases | 17.3.0 |
| 2021-12 | RAN#94 | R5-218487 | 0529 | 1 | F | Update of TR 38.905 with EN DC A MPR test point analyses, NS_04 | 17.3.0 |
| 2022-03 | RAN#95 | R5-220321 | 0537 | - | F | Adding Reference sensitivity Test point analysis for Rel-16 inter-band EN-DC FR1 two band combinations | 17.4.0 |
| 2022-03 | RAN#95 | R5-220363 | 0541 | - | F | Update TP analysis for Rel-17 DC_2A_n77A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220364 | 0542 | - | F | Update TP analysis for Rel-17 DC_5A_n77A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220365 | 0543 | - | F | Update TP analysis for Rel-17 DC_13A_n77A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220366 | 0544 | - | F | Update TP analysis for Rel-17 DC_66A_n77A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220377 | 0545 | - | F | Introduction of reference sensitivity test point analysis for DC_1A-n7A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220378 | 0546 | - | F | Introduction of reference sensitivity test point analysis for DC_28A_n7A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220379 | 0547 | - | F | Introduction of reference sensitivity test point analysis for DC_1A_n5A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220381 | 0548 | - | F | Introduction of reference sensitivity test point analysis for DC_3A_n5A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220383 | 0549 | - | F | Introduction of reference sensitivity test point analysis for DC_7A-n5A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220385 | 0550 | - | F | Introduction of reference sensitivity test point analysis for DC_7A_n28A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220388 | 0552 | - | F | Introduction of reference sensitivity test point analysis for DC_7A_n5A-n78A | 17.4.0 |
| 2022-03 | RAN#95 | R5-220389 | 0553 | - | F | Introduction of reference sensitivity test point analysis for DC_28A_n7A-n78A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221748 | 0555 | 1 | F | Addition of Test Point analysis for FR1 Spurious emission for UE co-existence for DC_19_n1 | 17.4.0 |
| 2022-03 | RAN#95 | R5-221749 | 0556 | 1 | F | Addition of Test Point analysis for FR1 Spurious emission for UE co-existence for DC_21_n1 | 17.4.0 |
| 2022-03 | RAN#95 | R5-220794 | 0558 | - | F | TP analysis for 6.2D.1 for ULFPtx | 17.4.0 |
| 2022-03 | RAN#95 | R5-220982 | 0561 | - | F | Update of test point analysis for Adjacent Channel Selectivity for EN-DC within FR1 | 17.4.0 |
| 2022-03 | RAN#95 | R5-221115 | 0562 | - | F | Updating TP analysis for FR1 AMPR for CA_n41A-n79A testing | 17.4.0 |
| 2022-03 | RAN#95 | R5-221123 | 0563 | - | F | Updating TP analysis for FR1 MPR for intra-band CA test case | 17.4.0 |
| 2022-03 | RAN#95 | R5-221125 | 0564 | - | F | Updating TP analysis for FR1 Absolute power tolerance CA test case | 17.4.0 |
| 2022-03 | RAN#95 | R5-221127 | 0565 | - | F | Updating TP analysis for FR1 ACLR for intra-band CA test case | 17.4.0 |
| 2022-03 | RAN#95 | R5-221129 | 0566 | - | F | Updating TP analysis for FR1 SEM for intra-band CA test case | 17.4.0 |
| 2022-03 | RAN#95 | R5-221313 | 0573 | - | F | TP analysis for ref sensitivity for DC_2A_n78A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221320 | 0575 | - | F | TP analysis for ref sensitivity for 4 Rel-17 ENDC combos | 17.4.0 |
| 2022-03 | RAN#95 | R5-221327 | 0577 | - | F | TP analysis for ref sensitivity for DC_2A_n66A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221602 | 0580 | - | F | Correction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_8A_n3A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221603 | 0581 | - | F | Correction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_20A_n3A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221631 | 0583 | - | F | Update of spurious emission TP analysis for DC_3A_n41A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221632 | 0584 | - | F | Update of spurious emission TP analysis for DC_8A_n41A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221633 | 0585 | - | F | Update of spurious emission TP analysis for DC_25A_n41A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221634 | 0582 | - | F | Update of spurious emission TP analysis for DC_26A_n41A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221635 | 0586 | - | F | Update of spurious emission TP analysis for DC_39A_n41A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221636 | 0587 | - | F | Update of spurious emission TP analysis for DC_40A_n41A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221750 | 0574 | 1 | F | Update_TP_analysis for EVM | 17.4.0 |
| 2022-03 | RAN#95 | R5-221751 | 0576 | 1 | F | Test Point analysis for FR2 Tx spur emission UL MIMO tests | 17.4.0 |
| 2022-03 | RAN#95 | R5-221752 | 0578 | 1 | F | Addition of reference sensitivity checklist for CA reference sensitivity test point analysis | 17.4.0 |
| 2022-03 | RAN#95 | R5-221753 | 0579 | 1 | F | Modification of test point analysis clause for FR1 NR CA | 17.4.0 |
| 2022-03 | RAN#95 | R5-221774 | 0533 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_8A_n20A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221775 | 0534 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_20A_n7A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221776 | 0535 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_28A_n5A | 17.4.0 |

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| 2022-03 | RAN#95 | R5-221777 | 0536 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_40A_n79A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221778 | 0551 | 1 | F | Introduction of reference sensitivity test point analysis for DC_7A_n78A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221779 | 0567 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_1A_n5A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221780 | 0568 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_1A_n7A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221781 | 0569 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_3A_n5A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221782 | 0570 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_7A_n5A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221783 | 0571 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_28A_n7A | 17.4.0 |
| 2022-03 | RAN#95 | R5-221829 | 0557 | 1 | F | TP analysis for 6.2E.2.2 MPR for concurrent operation | 17.4.0 |
| 2022-03 | RAN#95 | R5-221841 | 0559 | 1 | F | TP analysis for 6.2D.2 for ULFPtx | 17.4.0 |
| 2022-06 | RAN#96 | R5-222187 | 0588 | - | F | Correction of Number of test points for V2X SEM and V2X ACLR in 38.521-1 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222188 | 0589 | - | F | Correction of Justification in attachment for UL MIMO MPR and ACLR in 38.521-1 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222189 | 0590 | - | F | Correction of test points analysis of 2UL CA ACLR test case in 38.521-1 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222420 | 0602 | - | F | Update of R17 Reference Sensitivity test point analysis for FR1 NR CA | 17.5.0 |
| 2022-06 | RAN#96 | R5-222429 | 0603 | - | F | Test point analysis update for FR1 test case 6.3A.4.1.1 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222574 | 0606 | - | F | Addition of test analysis for several CA combinations | 17.5.0 |
| 2022-06 | RAN#96 | R5-222682 | 0613 | - | F | Update of test points analysis for CA_n1A-n3A refsens test case | 17.5.0 |
| 2022-06 | RAN#96 | R5-222733 | 0614 | - | F | Update for 38.521-1_TPanalysis_7.3_RefSense | 17.5.0 |
| 2022-06 | RAN#96 | R5-222734 | 0615 | - | F | Update TpAnalysisSpur_DC_14A_n2A | 17.5.0 |
| 2022-06 | RAN#96 | R5-222735 | 0616 | - | F | Update TpAnalysisSpur_DC_14A_n66A | 17.5.0 |
| 2022-06 | RAN#96 | R5-222831 | 0617 | - | F | Addition of test point analysis for 6.2B.1.3_1 Maximum Output Power | 17.5.0 |
| 2022-06 | RAN#96 | R5-222886 | 0619 | - | F | Update to TP analysis of A-MPR to add ULFPtx | 17.5.0 |
| 2022-06 | RAN#96 | R5-222903 | 0620 | - | F | Addition of TP analysis for FR1 RedCap requirements | 17.5.0 |
| 2022-06 | RAN#96 | R5-222915 | 0621 | - | F | Removing test case 6.5D.1_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.905 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222927 | 0622 | - | F | Addition of test point analysis for new test case 6.2G.1 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222928 | 0623 | - | F | Addition of test point analysis for new test cases 6.2G.2 and 6.5G.2.3.1 | 17.5.0 |
| 2022-06 | RAN#96 | R5-222929 | 0624 | - | F | Addition of test point analysis for new test case 6.2G.3 | 17.5.0 |
| 2022-06 | RAN#96 | R5-223017 | 0625 | - | F | Update of test point analysis for MPR, SEM and NR ACLR for UL MIMO | 17.5.0 |
| 2022-06 | RAN#96 | R5-223050 | 0626 | - | F | Update of test points analysis per CA configuration Table | 17.5.0 |
| 2022-06 | RAN#96 | R5-223682 | 0591 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_1A_n8A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223683 | 0592 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_7A_n8A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223684 | 0593 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_8A_n28A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223685 | 0594 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_20A_n8A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223686 | 0595 | 1 | F | Introduction of reference sensitivity test point analysis for DC_1A-20A_n8A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223687 | 0596 | 1 | F | Introduction of reference sensitivity test point analysis for DC_1A-28A_n5A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223688 | 0597 | 1 | F | Introduction of reference sensitivity test point analysis for DC_3A-7A_n5A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223689 | 0598 | 1 | F | Introduction of reference sensitivity test point analysis for DC_3A-8A_n28A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223690 | 0599 | 1 | F | Introduction of reference sensitivity test point analysis for DC_7A-8A_n3A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223691 | 0600 | 1 | F | Introduction of reference sensitivity test point analysis for DC_7A-20A_n8A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223692 | 0601 | 1 | F | Introduction of reference sensitivity test point analysis for DC_7A-28A_n5A | 17.5.0 |
| 2022-06 | RAN#96 | R5-223696 | 0628 | 1 | F | Update_TP_analysis for AMPR NS_27 | 17.5.0 |
| 2022-06 | RAN#96 | R5-223732 | 0627 | 1 | F | Updating A-MPR and A-SE TP analysis for NS_48 | 17.5.0 |
| 2022-06 | RAN#96 | R5-223745 | 0607 | 1 | F | Tx spurious emission TP analysis for Rel-17 CA_n24-n41 | 17.5.0 |
| 2022-06 | RAN#96 | R5-223746 | 0608 | 1 | F | Tx spurious emission TP analysis for Rel-17 CA_n24-n48 | 17.5.0 |
| 2022-06 | RAN#96 | R5-223747 | 0609 | 1 | F | Tx spurious emission TP analysis for Rel-17 CA_n24-n77 | 17.5.0 |
| 2022-06 | RAN#96 | R5-223771 | 0618 | 1 | F | Addition of test point analysis for 6.2B.4.1.3_1 Configured Output Power | 17.5.0 |
| 2022-06 | RAN#96 | R5-223867 | 0604 | 1 | F | Updating TP analysis for MPR, SEM and ACLR for FR2 | 17.5.0 |

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| 2022-09 | RAN#97 | R5-224158 | 0631 | - | F | Introduction of reference sensitivity test point analysis for DC_3A-7A-20A_n8A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224207 | 0633 | - | F | Adding test point analysis for A_MPR NS_27 with 30 MHz channel bandwidth | 17.6.0 |
| 2022-09 | RAN#97 | R5-224254 | 0634 | - | F | Correction of test points analysis of some Rx test cases in 38.521-1 for the addition of test points for asymmetric channel bandwidths and UL-MIMO | 17.6.0 |
| 2022-09 | RAN#97 | R5-224792 | 0640 | - | F | Addition of test point analysis for TxD test cases | 17.6.0 |
| 2022-09 | RAN#97 | R5-224872 | 0646 | - | F | A-MPR TP analysis for Rel-17 CA_n24-n48 | 17.6.0 |
| 2022-09 | RAN#97 | R5-224873 | 0647 | - | F | A-MPR TP analysis for Rel-17 CA_n24-n77 | 17.6.0 |
| 2022-09 | RAN#97 | R5-224886 | 0649 | - | F | TP analysis for additional spurious emission for NS_14 | 17.6.0 |
| 2022-09 | RAN#97 | R5-224901 | 0657 | - | F | General rule for TP selection for NR_U test cases | 17.6.0 |
| 2022-09 | RAN#97 | R5-224938 | 0658 | - | F | Editorial corrections to the timeline for introduction of test points | 17.6.0 |
| 2022-09 | RAN#97 | R5-224940 | 0659 | - | F | Introduction of reference sensitivity test point analysis for DC_2A-66A_n41A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224944 | 0660 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_2A_n41A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224945 | 0661 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_7A_n3A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224947 | 0662 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_8A_n41A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224948 | 0663 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_13A_n2A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224949 | 0664 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_20A_n1A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224951 | 0665 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_48A_n5A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224953 | 0666 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_48A_n66A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224955 | 0667 | - | F | Update of spurious emission TP analysis for Rel-16 EN-DC configuration DC_66A_n41A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224959 | 0668 | - | F | Editorial corrections to spurious emission test cases for DC_8A_n3A, DC_8A_n20A and DC_20A_n3A | 17.6.0 |
| 2022-09 | RAN#97 | R5-224965 | 0669 | - | F | Incorrect TP analysis revision for test case 6.2D.2 | 17.6.0 |
| 2022-09 | RAN#97 | R5-225065 | 0670 | - | F | Updating test point selection criteria for FR1 SUL test cases | 17.6.0 |
| 2022-09 | RAN#97 | R5-225074 | 0671 | - | F | Adding TP analysis for new FR1 test case 6.3C.3.2 | 17.6.0 |
| 2022-09 | RAN#97 | R5-225076 | 0672 | - | F | Updating TP analysis for FR1 test case 6.3A.3.1_1 | 17.6.0 |
| 2022-09 | RAN#97 | R5-225108 | 0673 | - | F | Editorial correction for DC_1A_n5A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225711 | 0630 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC_3A_n8A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225712 | 0635 | 1 | F | Update TP analysis for Rel-16 CA_n2A_n77A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225713 | 0636 | 1 | F | Update TP analysis for Rel-16 CA_n5A_n77A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225714 | 0637 | 1 | F | Update TP analysis for Rel-16 CA_n66A_n77A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225715 | 0638 | 1 | F | TP analysis for ref sensitivity for Rel-16 NR CA combos | 17.6.0 |
| 2022-09 | RAN#97 | R5-225716 | 0650 | 1 | F | Update Spurious emission TP R16 DC_5A_n2A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225737 | 0643 | 1 | F | Tx Spurious emissions test point analysis for many UL CA combos | 17.6.0 |
| 2022-09 | RAN#97 | R5-225738 | 0644 | 1 | F | Test point analysis for reference sensitivity for many 4CA combos | 17.6.0 |
| 2022-09 | RAN#97 | R5-225739 | 0645 | 1 | F | A-MPR TP analysis for Rel-17 CA_n24-n41 | 17.6.0 |
| 2022-09 | RAN#97 | R5-225745 | 0629 | 1 | F | Test point analysis for test 6.2.4_1 Configured transmitted power with Power Boost | 17.6.0 |
| 2022-09 | RAN#97 | R5-225746 | 0641 | 1 | F | Update TP analysis for AMPR NS_05 and NS_05U | 17.6.0 |
| 2022-09 | RAN#97 | R5-225749 | 0632 | 1 | F | Introduction of spurious emission TP analysis for CA_n48A-n70A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225779 | 0642 | 1 | F | Update to MPR for CA TP analysis to add PC2 requirements | 17.6.0 |
| 2022-09 | RAN#97 | R5-225825 | 0648 | 1 | F | Ref sensitivity TP selection for DC_2A_n41A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225826 | 0651 | 1 | F | Ref sensitivity TP selection for DC_1A_n77A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225827 | 0652 | 1 | F | Ref sensitivity TP selection for DC_3A_n77A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225828 | 0653 | 1 | F | Ref sensitivity TP selection for DC_8A_n78A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225829 | 0654 | 1 | F | Ref sensitivity TP selection for DC_5A_n78A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225830 | 0655 | 1 | F | Ref sensitivity TP selection for DC_8A_n79A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225831 | 0656 | 1 | F | Ref sensitivity TP selection for DC_21A_n79A | 17.6.0 |
| 2022-09 | RAN#97 | R5-225832 | 0674 | 1 | F | Updated TP analysis MPR for CA in FR2 | 17.6.0 |
| 2022-12 | RAN#98 | R5-226298 | 0679 | | F | Addition of NS_03U in Table 4.1.2.1-1 and correction of number of test points for NS_03 and NS_100 | 17.7.0 |
| 2022-12 | RAN#98 | R5-226519 | 0683 | | F | Addition of reference sensitivity test point analysis for three bands within FR1 | 17.7.0 |
| 2022-12 | RAN#98 | R5-226521 | 0684 | | F | Update of spurious emission TP analysis for Rel-15 NR CA configuration CA_n3A-n78A | 17.7.0 |
| 2022-12 | RAN#98 | R5-226522 | 0685 | | F | Update of spurious emission TP analysis for Rel-15 NR CA configuration CA_n8A-n78A | 17.7.0 |
| 2022-12 | RAN#98 | R5-226585 | 0689 | | F | Ref sense TP analysis for DC_30A_n66A | 17.7.0 |
| 2022-12 | RAN#98 | R5-226589 | 0693 | | F | Update test frequency for DC_5A_n77A | 17.7.0 |
| 2022-12 | RAN#98 | R5-226701 | 0695 | | F | Addition of CA_n41-n66/- in sensitivity test case config table. | 17.7.0 |

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| 2022-12 | RAN#98 | R5-226830 | 0706 | | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n66A-n77A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227228 | 0718 | | F | Update of spurious emission TP analysis for Rel-17 NR CA configuration CA_n48A-n71A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227294 | 0720 | | F | Editorial corrections on TpAnalysisSpur filename | 17.7.0 |
| 2022-12 | RAN#98 | R5-227711 | 0676 | 1 | F | Spur_TpAnalysis for CA_n2A_n5A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227712 | 0677 | 1 | F | Spur_TpAnalysis for CA_n2A_n48A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227713 | 0694 | 1 | F | Ref_sense_TpAnalysis for CA_n2A_n5A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227714 | 0682 | 1 | F | Update TP analysis for reference sensitivity frequency selections | 17.7.0 |
| 2022-12 | RAN#98 | R5-227715 | 0686 | 1 | F | Introduction of spurious emissions TP analysis for 18A_n77A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227716 | 0687 | 1 | F | Introduction of spurious emissions TP analysis for 18A_n78A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227717 | 0688 | 1 | F | Addition of refrence sensitivity test point analysis for 18A_n77A and 18A_n78A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227718 | 0696 | 1 | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n1A-n78A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227719 | 0697 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 NR CA configuration CA_n1A-n79A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227720 | 0698 | 1 | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n28A-n41A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227721 | 0699 | 1 | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n2A-n77A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227722 | 0700 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 NR CA configuration CA_n39A-n41A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227723 | 0701 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 NR CA configuration CA_n3A-n41A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227724 | 0702 | 1 | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n41A-n79A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227725 | 0703 | 1 | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n48A-n66A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227726 | 0704 | 1 | F | Update of spurious emission TP analysis for Rel-16 NR CA configuration CA_n5A-n77A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227727 | 0719 | 1 | F | Introduction of CA_n48A-n77A and CA_n71A-n77A test point analyses | 17.7.0 |
| 2022-12 | RAN#98 | R5-227895 | 0680 | 1 | F | Update TP analysis of reference sensitivity for CA_n66A-n77A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227897 | 0681 | 1 | F | Update TP analysis for ref sensitivity for Rel-16 NR CA combos | 17.7.0 |
| 2022-12 | RAN#98 | R5-227904 | 0709 | 1 | F | Updating TP analysis for NS_49 | 17.7.0 |
| 2022-12 | RAN#98 | R5-227907 | 0692 | 1 | F | Update test frequency for DC_48A_n66A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227909 | 0710 | 1 | F | Test point analysis for mpr-PowerBoost tests 6.4.2.1_1, 6.5.2.1_1, 6.5.3.1_1, 6.5.3.2_1 and 6.5.3.3_1 | 17.7.0 |
| 2022-12 | RAN#98 | R5-227912 | 0711 | 1 | F | Updating TP analysis for 6.2G.2 to add power class 3 | 17.7.0 |
| 2022-12 | RAN#98 | R5-227914 | 0690 | 1 | F | Ref sense TP analysis for DC_66A_n5A | 17.7.0 |
| 2022-12 | RAN#98 | R5-227915 | 0691 | 1 | F | Ref sense TP analysis for DC_12A_n66A | 17.7.0 |
| 2023-03 | RAN#99 | R5-230215 | 0724 | - | F | Correction of TP analysis for FR2 ACLR for SCS 60 kHz | 17.8.0 |
| 2023-03 | RAN#99 | R5-230281 | 0725 | - | F | Update reference sensitivity test cases for three bands configurations of CA_n2A-n5A-n77A, CA_n2A-n66A-n77A, and CA_n5A-n66A-n77A | 17.8.0 |
| 2023-03 | RAN#99 | R5-230320 | 0728 | - | F | Addition of reference sensitivity test point analysis for new EN-DC comb within FR1 | 17.8.0 |
| 2023-03 | RAN#99 | R5-230944 | 0744 | - | F | Addition of reference sensitivity test point analysis for DC_1A_n28A | 17.8.0 |
| 2023-03 | RAN#99 | R5-230945 | 0745 | - | F | Addition of reference sensitivity test point analysis for DC_8A_n41A | 17.8.0 |
| 2023-03 | RAN#99 | R5-230946 | 0746 | - | F | Addition of reference sensitivity test point analysis for DC_12A_n78A | 17.8.0 |
| 2023-03 | RAN#99 | R5-230947 | 0747 | - | F | Addition of reference sensitivity test point analysis for DC_2A-66A_n5A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231241 | 0750 | - | F | Test point analysis update for A-MPR test for NS_21 | 17.8.0 |
| 2023-03 | RAN#99 | R5-231311 | 0754 | - | F | Updated TP analysis for DC_25A_n41A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231608 | 0727 | 1 | F | Addition of reference sensitivity test point analysis for new 3CC EN-DC comb within FR1 | 17.8.0 |
| 2023-03 | RAN#99 | R5-231609 | 0738 | 1 | F | Ref sensitivity TP selection for DC_71A_n66A DC_14A_n2A and DC_12A_n2A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231610 | 0742 | 1 | F | Adding Spurious emission TP for DC_71A_n66A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231611 | 0743 | 1 | F | Adding Spurious emission TP for DC_12A_n2A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231612 | 0739 | 1 | F | Update Ref sensitivity TP selection for DC_21A_n79A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231613 | 0740 | 1 | F | Ref sensitivity TP selection for DC_71A_n2A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231614 | 0741 | 1 | F | Adding Spurious emission TP for DC_71A_n2A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231615 | 0748 | 1 | F | Update of spurious emission TP analysis for CA_n1A-n8A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231616 | 0752 | 1 | F | Reference sensitivity TP analysis for DC_66A_n41A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231620 | 0733 | 1 | F | Adding TP for CA AMPR CA_NS_04 | 17.8.0 |
| 2023-03 | RAN#99 | R5-231621 | 0734 | 1 | F | Merging TP analysis of CA MPR, ACLR and SEM | 17.8.0 |
| 2023-03 | RAN#99 | R5-231622 | 0735 | 1 | F | Adding TP for CA spurious emission for PC2 and PC3 intra-band contiguous | 17.8.0 |
| 2023-03 | RAN#99 | R5-231623 | 0731 | 1 | F | Update to TP analysis of 6.2.3 NS_27 | 17.8.0 |
| 2023-03 | RAN#99 | R5-231624 | 0736 | 1 | F | Adding TP for CA spurious emission co-existence for PC2 and PC3 intra-band contiguous | 17.8.0 |

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| 2023-03 | RAN#99 | R5-231625 | 0732 | 1 | F | Adding 45MHz PC2 TP analysis to 6.2.3 NS_49 | 17.8.0 |
| 2023-03 | RAN#99 | R5-231633 | 0749 | 1 | F | Addition of CA_n41A-n71A. | 17.8.0 |
| 2023-03 | RAN#99 | R5-231833 | 0737 | 2 | F | NTN test point analysis | 17.8.0 |
| 2023-03 | RAN#99 | R5-231865 | 0753 | 1 | F | Clarifications and alignment of REFSENS TP analysis for EN-DC and NR CA | 17.8.0 |
| 2023-03 | RAN#99 | R5-231879 | 0729 | 1 | F | Addition of spurious emissions TP analysis for 1A_n41A and 41A_n28A | 17.8.0 |
| 2023-03 | RAN#99 | R5-231880 | 0730 | 1 | F | Addition of spurious emissions TP analysis for 21A_n28A | 17.8.0 |
| 2023-06 | RAN#100 | R5-232114 | 0755 | - | F | Introduction of MOP test point analysis for CA_n28A-n78A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232115 | 0756 | - | F | Introduction of spurious emission TP analysis for CA_n28A-n78A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232116 | 0757 | - | F | Introduction of reference sensitivity test point analysis for CA_n28A-n78A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232347 | 0759 | - | F | TP analysis updated for NTN maximum input level test case 7.4 | 17.9.0 |
| 2023-06 | RAN#100 | R5-232424 | 0763 | - | F | Addition of spurious emission TP analysis for CA_n1A-n3A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232608 | 0766 | - | F | Ref sensitivity TP selection for DC_7A_n66A DC_7A_n77A and DC_66A_n25A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232707 | 0768 | - | F | Addition of reference sensitivity test point analysis for n3A-n77A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232709 | 0769 | - | F | Addition of reference sensitivity test point analysis for n28A-n77A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232718 | 0770 | - | F | Addition of reference sensitivity test point analysis for DC_21A_n28A | 17.9.0 |
| 2023-06 | RAN#100 | R5-232876 | 0775 | - | F | Editorial in Table 4.1.3.1-2 | 17.9.0 |
| 2023-06 | RAN#100 | R5-232878 | 0776 | - | F | Addition of CA_n41A-n66A-n71A in sensitivity test case config table. | 17.9.0 |
| 2023-06 | RAN#100 | R5-232976 | 0778 | - | F | Introduction of TP analysis for A-MPR - New NR band n13 | 17.9.0 |
| 2023-06 | RAN#100 | R5-233094 | 0780 | - | F | Updating TP analysis for Transmit ON/OFF time mask for CA | 17.9.0 |
| 2023-06 | RAN#100 | R5-233171 | 0782 | - | F | Addition of Test Point Analysis for CA_NS_202 | 17.9.0 |
| 2023-06 | RAN#100 | R5-233256 | 0783 | - | F | TP Analysis for FR2 RF test case involving EIRP with UL-Gaps | 17.9.0 |
| 2023-06 | RAN#100 | R5-233512 | 0762 | 1 | F | Correction to spurious emissions TP analysis for 21A_n28A | 17.9.0 |
| 2023-06 | RAN#100 | R5-233513 | 0767 | 1 | F | Spur_TpAnalysis for CA_n5A_n48A | 17.9.0 |
| 2023-06 | RAN#100 | R5-233514 | 0764 | 1 | F | TP analysis for NR NTN configured transmission power tests | 17.9.0 |
| 2023-06 | RAN#100 | R5-233518 | 0760 | 1 | F | TP analysis update for FR2 2 UL CA Tx tests to support PHR method | 17.9.0 |
| 2023-06 | RAN#100 | R5-233519 | 0765 | 1 | F | Ref sensitivity TP selection for DC_38A_n78A DC_18A_n77A and DC_19A_n77A | 17.9.0 |
| 2023-06 | RAN#100 | R5-233521 | 0761 | 1 | F | FR1 MPR - ACLR - SEM - TP analysis update for almost contiguous RB allocation | 17.9.0 |
| 2023-06 | RAN#100 | R5-233522 | 0772 | 1 | F | Correction to test point analysis for FR1 test cases | 17.9.0 |
| 2023-06 | RAN#100 | R5-233523 | 0777 | 1 | F | Clarification/improvement of clause B9. | 17.9.0 |
| 2023-06 | RAN#100 | R5-233526 | 0779 | 1 | F | Updating REFSENS exception test frequency selection for CA_n7A-n78A | 17.9.0 |
| 2023-06 | RAN#100 | R5-233528 | 0773 | 2 | F | TP analysis for PC2 PC3 n39 A-MPR and A-SE | 17.9.0 |
| 2023-06 | RAN#100 | R5-233530 | 0781 | 1 | F | Correction of test point analysis for CA_n66A-n71A | 17.9.0 |
| 2023-06 | RAN#100 | R5-233713 | 0758 | 1 | F | Update inter-band NR CA reference sensitivity exception cases due to UL PC2 | 17.9.0 |
| 2023-09 | RAN#101 | R5-233948 | 0784 | - | F | Introduction of spurious emission TP analysis for CA_n20A-n78A | 17.10.0 |
| 2023-09 | RAN#101 | R5-234200 | 0789 | - | F | Update reference sensitivity test cases for additional three bands configurations | 17.10.0 |
| 2023-09 | RAN#101 | R5-234204 | 0790 | - | F | Update reference sensitivity test cases for a few PC2 three band configurations | 17.10.0 |
| 2023-09 | RAN#101 | R5-234450 | 0792 | - | F | Test point analysis for reference sensitivity for several NR CA combos | 17.10.0 |
| 2023-09 | RAN#101 | R5-234590 | 0795 | - | F | Update 38.521-1_TpAnalysis_6.5.4_TxIm_v3 for NR-U | 17.10.0 |
| 2023-09 | RAN#101 | R5-234630 | 0798 | - | F | TP analysis for NR NTN AMPR tests | 17.10.0 |
| 2023-09 | RAN#101 | R5-234728 | 0800 | - | F | Introduction of TP analysis of CA_n3A_n41A Ref Sense exception | 17.10.0 |
| 2023-09 | RAN#101 | R5-234730 | 0801 | - | F | Introduction of TP analysis of CA_n28A-n41A-n79A Ref Sense exception | 17.10.0 |
| 2023-09 | RAN#101 | R5-234839 | 0803 | - | F | Addition of TP analysis of SE-coex for intra-band non-contiguous CA | 17.10.0 |
| 2023-09 | RAN#101 | R5-234846 | 0804 | - | F | Addition of TP analysis of spurious emission co-existence for CA_n28-n79 | 17.10.0 |
| 2023-09 | RAN#101 | R5-234849 | 0805 | - | F | Addition of TP analysis of 6.3A.3.3 2Tx-2Tx UL switching for inter-band CA | 17.10.0 |
| 2023-09 | RAN#101 | R5-235015 | 0807 | - | F | Addition of spurious emission TP analysis for CA_n3A-n8A | 17.10.0 |
| 2023-09 | RAN#101 | R5-235041 | 0808 | - | F | Updating test frequency selection for REFSENS exception testing for CA | 17.10.0 |
| 2023-09 | RAN#101 | R5-235620 | 0793 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 NR CA configuration CA_n5A-n66A. | 17.10.0 |
| 2023-09 | RAN#101 | R5-235622 | 0809 | 1 | F | Updating REFSENS test point selection for CA_n39A-n41A | 17.10.0 |
| 2023-09 | RAN#101 | R5-235626 | 0802 | 1 | F | Update TP analysis of Ref sense exception of NR CA PC2 configs | 17.10.0 |
| 2023-09 | RAN#101 | R5-235632 | 0794 | 1 | F | Update 38.905 for NR-U | 17.10.0 |
| 2023-09 | RAN#101 | R5-235649 | 0791 | 1 | F | Addition of spurious emissions TP analysis for new NRCA comb within FR1 | 17.10.0 |
| 2023-09 | RAN#101 | R5-235680 | 0813 | 1 | F | TP analysis for NTN TC 6.3.3 on Tx on-off time mask | 17.10.0 |
| 2023-09 | RAN#101 | R5-235682 | 0814 | 1 | F | TP analysis for NTN TC 6.5.2.4 on ACLR | 17.10.0 |
| 2023-09 | RAN#101 | R5-235684 | 0815 | 1 | F | TP analysis for NTN TC 6.5.2.2 on Spectrum emission mask | 17.10.0 |

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| 2023-09 | RAN#101 | R5-235848 | 0785 | 1 | F | Introduction of reference sensitivity test point analysis for CA_n20A-n78A | 17.10.0 |
| 2023-09 | RAN#101 | R5-235855 | 0817 | 1 | F | TP analysis for FR2 RF phase continuity test | 17.10.0 |
| 2023-09 | RAN#101 | R5-235856 | 0786 | 1 | F | Update TP analysis for 7.4 | 17.10.0 |
| 2023-09 | RAN#101 | R5-235857 | 0787 | 1 | F | Update TP analysis for 7.4A | 17.10.0 |
| 2023-09 | RAN#101 | R5-235858 | 0799 | 1 | F | TP analysis update for NTN | 17.10.0 |
| 2023-09 | RAN#101 | R5-235937 | 0816 | 1 | F | TP analysis for FR1 RF phase continuity test | 17.10.0 |
| 2023-12 | RAN#102 | R5-236251 | 0824 | - | F | Removal of technical content in TR 38.905 v17.10.0 and substitution with pointer to the next Release | 17.11.0 |

History

| Document history | | |
|-------------------------|--------------|-------------|
| V17.4.0 | May 2022 | Publication |
| V17.5.0 | August 2022 | Publication |
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