**3GPP TSG WG RAN5 Meeting #95-e draft R5-222072**

**Electronic Meeting**

**9th – 20th May 2022**



**Draft Report from the RAN WG5#95-e Meeting**

Electronic Meeting

9th – 20th May 2022

v 1.0

**Chairman: Jacob John, Motorola Mobility**

**Meeting Secretary: Ingbert Sigovich, ETSI/MCC Project manager**

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RF session Secretary: Amy Tao, Bureau Veritas

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## 1 Opening of the meeting

**R5-222050 Agenda - opening session**

*Type: agenda For: Information  
 Source: WG Chairman*

**Discussion:**

RAN5#95-e Electronic Meeting has full decision power.

Reminder for IPR declaration

The RAN5 Chair drew the attention to the delegates' obligations under the 3GPP Partner Organizations’ IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP.

Delegates are asked to take note that they are thereby invited:

• to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

• to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms (e.g. see the ETSI IPR forms http://webapp.etsi.org/Ipr/).

Antitrust Guidance

The RAN5 Chair drew the delegates' attention to the fact that 3GPP activities are subject to all applicable antitrust and competition laws and that compliance with said laws is therefore required of any participant of this TSG/WG meeting including the Chairman and Vice Chairman. In case of question it is recommended that you contact your legal counsel.

The leadership shall conduct the present meeting with impartiality and in the interests of 3GPP.

Furthermore, the timely submission of work items in advance of TSG/WG meetings is important to allow for full and fair consideration of such matters.”

http://www.3gpp.org/about-3gpp/legal-matters/21-3gpp-calendar/1616-statement-of-antitrust-compliance

**Decision:** The document was **revised to R5-223289**.

**R5-223289 Agenda - opening session**

*Type: agenda For: Information  
 Source: WG Chairman*

(Replaces R5-222050)

**Discussion:**

5.6.18 for TR 37.901-5 added.

**Decision:** The document was **approved**.

**R5-222051 RAN5#95-e E-Meeting Timelines, Scope, Process**

*Type: agenda For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

## 2 Reports

### 2.1 Live Reports

**R5-222052 RAN5 Leadership Team**

*Type: other For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

**R5-222053 RAN5#94-e WG Minutes**

*Type: report For: Approval  
 Source: ETSI Secretariat*

**Decision:** The document was **approved**.

**R5-222054 RAN5#94-e WG Action Points**

*Type: report For: Information  
 Source: ETSI Secretariat*

**Decision:** The document was **noted**.

**R5-222055 Latest RAN Plenary notes**

*Type: report For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

**R5-222056 Latest RAN Plenary draft Report**

*Type: report For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

**R5-222057 Post Plenary Active Work Item update**

*Type: other For: Information  
 Source: ETSI Secretariat*

**Decision:** The document was **noted**.

**R5-222361 MCC TF160 Status Report**

*Type: report For: Approval  
 Source: MCC TF160*

**Abstract:**

Test Models – 5G:

Rel-15:

NE-DC: endorsed NE-DC L3 test model updates.

Endorsed handling of PDCP duplication in the 5G Layer3 Test Models.

Intra-NR inter-cell CA handover procedure: endorsed TTCN test sequence updates.

Rel-16:

NR IIoT: endorsed new NR PDCP test model for NR CA (3CC) PDCP duplication testing.

5G V2X: endorsed updated test model & ASPs.

Prose CRs to TS 38.523-3 proposed at RAN5#95-e for the above.

Test Models – POS:

Rel-16 NR positioning: endorsed NR test model & ASP updates for posSIBs broadcast support.

Prose CR to TS 38.523-3 proposed at RAN5#95-e for the above.

Test Models – NB-IoT:

Endorsed test model update for NB-IoT in-band with different PCI.

Prose CR to TS 36.523-3 proposed at RAN5#95-e for the above.

Test Models – MCX:

MCPTT:

Discussed potential MCX core specs issues related to Session Id for Call Establishment. Relevant 3GPP WG(s) to be contacted.

MCVideo:

Discussed various potential MCX core specs & test specs issues related to MCVideo. Relevant 3GPP WG(s) to be contacted.

Prose CRs to TS 36.579-x proposed at RAN5#95-e for the above.

TTCN development   
Progress for period: March to May’22:

Completed:

5GS Rel-16:

NR mobility enhancements

Network slicing enhancements

LTE Rel-14:

IMS eCall over LTE

Mission Critical over LTE:

MCPTT on-NW group & private calls

Progressed:

5GS Rel-15:

NR/5GC single carrier

NR/5GC NR-DC

5GS Rel-16:

NR RACS

NR SON/MDT

NR UE power saving

IMS over NR/5GC:

Supplementary services

IMS emergency

POS:

Rel-16 NR positioning

Started:

5GS Rel-15:

NR/5GC NE-DC

5GS Rel-16:

NR URLLC phy layer enh.

NR IIoT

Mission Critical over LTE:

MCData

MCVideo

TTCN funding 2022  
Status:

2022 workload is estimated at 101 person-months, see previous slides.

PCG#47/OP#46 approved the 3GPP funding of 58 person-months for 2022 TTCN tasks.

CTIA/PTCRB and GCF have agreed to continue TF160 financial support in 2022.3GPP companies / 3GPP MRPs committed to provide 17 person-months as voluntary contributions for 2022 TTCN development.

Total resources of 101 person-months  no estimated funding gap.

TTCN deliveries and baseline  
2022 schedule:

One TTCN-2 full delivery (FDD & LCR TDD) and five TTCN-3 full deliveries.

Q3/Q4 dates tentative: dependent on RAN/RAN5 meetings being physical or electronic (TBC).

Type definitions baseline upgrade to 3GPP Release 17 required in 2022:

Rel-17 Stage3 freeze achieved by 3GPP in March 2022.

Rel-17 ASN.1 freeze scheduled by 3GPP in June 2022.

**Decision:** The document was **revised to R5-223308**.

### 2.2 General Reports for information

**R5-222058 RAN5 SR to RP#95-e**

*Type: report For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

**R5-222059 TF160 SR to RP#95-e**

*Type: report For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

**R5-222242 GCF 3GPP TCL after GCF CAG#70**

*Type: other For: Information  
 Source: Ericsson*

**Discussion:**

got a revised document from GCF office.

**Decision:** The document was **revised to R5-223334**.

**R5-223334 GCF 3GPP TCL after GCF CAG#70**

*Type: other For: Information  
 Source: Ericsson*

(Replaces R5-222242)

**Decision:** The document was **noted**.

## 3 Incoming Liaison Statements

**R5-222071 LS on CTIA Certification OTA Performance Test Plan Version 4.0 Publication**

*Type: LS in For: Information  
 Original outgoing LS: OTA\_2022\_004\_004 V2, to -, cc -  
 Source: CTIA OTA*

**Abstract:**

In 2020, CTIA Certification initiated OTA test plan restructuring efforts to support the expansion of CTIA Certification OTA test scope to accommodate new airlink technologies, new operating bands, new test methodologies, new device types, new phantoms, etc.

These efforts resulted in the streamlined suite of Test Plan for Wireless Device Over-the-Air Performance Version 4.0 which include the following documents (available to download at https://ctiacertification.org/test-plans/):

The overarching document, CTIA 01.01, defines general requirements for equipment configurations, laboratory techniques, test methodologies, and evaluation criteria that must be met in order to ensure the accurate, repeatable, and uniform testing of wireless devices to ensure that they meet CTIA Certification standards.

The test methodology documents, CTIA 01.20 through 01.22 for SISO and CTIA 01.40 through 01.41 for MIMO, describe the individual test procedures while the settings for the airlink technologies, operating bands, channels, etc. are described in the wireless technology documents, CTIA 01.50 through 01.52.

The underlying measurement uncertainty contributions and descriptions for each methodology are defined in CTIA 01.70 while setup/positioning guidelines as well as supporting procedures are discussed in CTIA 01.71 and 01.73, respectively. The near-field phantoms used for OTA testing are defined in CTIA 01.72.

Some of the new features, test requirements, and test methodologies introduced in Version 4.0 are as follows:

• MIMO OTA testing based on Radiated-Two Stage (RTS)

• Reverberation chamber test methodology for non-MIMO testing (IoT devices and Large Form Factor devices)

• Normative NR FR1 OTA testing to include NR SA and EN-DC

• TRP and TIS Quantities based on Clenshaw-Curtis quadrature as opposed to the traditional sin(theta) weighting

• Additional GNSS test methods: A-GPS L5, NR FR1 NSA A-GNSS, A-GALILEO E1

• Recommended LTE TRP/TIS limits for IoT devices

• Generic Chest Phantom for body-worn use cases (Informative)

• Bluetooth™ Low Energy (LE) test methodology (Informative)

CTIA Certification is getting ready to validate system vendors using the System Validation Document (SVD) which is released separately for each test methodology. Once SVD submissions from system vendors have been received by CTIA Certification and accepted by the Subject Matter Experts, CTIA Certification will determine whether a sufficient number of labs would meet the pre-determined minimum required percentage, determined per feature/test case, to ensure adequate test capacity for the certification program. The Lab Authorization Documents (LADs), released for each test methodology as well, will be released shortly for test labs to start the process of becoming Authorized Test Labs (ATLs). As soon as the minimum requirement above is met, the date at which time the new test plan version is mandatory for certification will be determined.

The mandatory date for each test methodology has not been finalized/defined yet as the development of the SVDs and LADs is still in progress.

**Decision:** The document was **noted**.

## 4 RAN5 General Issues

### 4.1 New Work Item proposals - for intro only

**R5-222171 New WID on UE Conformance - NR Sidelink Relay**

*Type: WID new For: Endorsement  
 Source: CATT, China Telecom*

**Abstract:**

The objective of Rel-17 Work Item of “NR Sidelink Relay” is to specify solutions to enable single-hop, sidelink-based, L2 and L3 based UE-to-Network (U2N) relaying.

Work Item objectives on aspects common to both L2 and L3:

1. Specify mechanisms for U2N relay discovery and (re)selection for L3 and L2 relaying [RAN2, RAN4]

a. Re-use LTE relay discovery and (re)selection as baseline

2. Specify mechanisms for Relay and Remote UE authorization for L3 and L2 relaying [RAN3]

a. Re-use LTE as baseline

Work Item objectives specific to Layer-2 (L2) relaying:

3. Specify mechanisms for E2E, i.e. PC5 and Uu, QoS management [RAN2]:

4. Specify mechanisms for service continuity

a. Limited to intra-gNB cases [RAN2]

5. Specify mechanisms for U2N Adaptation layer design [RAN2]

a. For bearer mapping and Remote UE identification, incl. RAN related security aspects if any

6. Specify Control Plane procedures for U2N, including RRC connection management, system information delivery, paging mechanism and access control for Remote UE [RAN2, RAN3]

Secondly, the objective of this work item also covers the non-relay discovery (i.e. 5G ProSe Direct Discovery).

Specify mechanisms for 5G ProSe Direct Discovery [RAN2, RAN3, RAN4];

The overall completion level of WI “NR Sidelink Relay” has reached 100% after RAN#95e (March 2022). The corresponding UE conformance testing specifications are required to be implemented in RAN5 before commercial deployment.

4 Objective

4.1 Objectives Core part WI

The objective of this work item is to specify solutions to UE conformance testing corresponding to the features described in WID of NR Sidelink Relay, including protocol test cases and associated test environment, test applicability, etc.

**Discussion:**

r2

RAN5 Chair: pls. put for:endorsement +AI.

AT&T agreed with the new WID and requested to be added as a supporting company.

**Decision:** The document was **revised to R5-223309**.

**R5-222172 New WID on UE Conformance - NR sidelink enhancement**

*Type: WID new For: Endorsement  
 Source: CATT, Huawei*

**Abstract:**

The objective of Rel-17 Work Item of “NR Sidelink enhancement” is to specify radio solutions that can enhance NR sidelink for the V2X, public safety and commercial use cases.

1. Sidelink evaluation methodology update: Define evaluation assumption and performance metric for power saving by reusing TR 36.843 and/or TR 38.840 (to be completed by RAN#89) [RAN1]

2. Resource allocation enhancement:

Specify resource allocation to reduce power consumption of the UEs [RAN1, RAN2]

Baseline is to introduce the principle of Rel-14 LTE sidelink random resource selection and partial sensing to Rel-16 NR sidelink resource allocation mode 2.

This work should consider the impact of sidelink DRX, if any.

Study the feasibility and benefit of solution(s) on the enhancement(s) in mode 2 for enhanced reliability and reduced latency in consideration of both PRR and PIR defined in TR37.885 (by RAN#91), and specify the identified solution(s) if deemed feasible and beneficial [RAN1, RAN2]

Inter-UE coordination with the following.

A set of resources is determined at UE-A. This set is sent to UE-B in mode 2, and UE-B takes this into account in the resource selection for its own transmission.

3. Sidelink DRX for broadcast, groupcast, and unicast [RAN2]

Define on- and off-durations in sidelink and specify the corresponding UE procedure

Specify mechanism aiming to align sidelink DRX wake-up time among the UEs communicating with each other

Specify mechanism aiming to align sidelink DRX wake-up time with Uu DRX wake-up time in an in-coverage UE

4. Support of new sidelink frequency bands for single-carrier operations [RAN4]

Support of new sidelink frequency bands should ensure coexistence between sidelink and Uu interface in the same and adjacent channels in licensed spectrum.

The exact frequency bands are to be determined based on company input during the WI, considering both licensed and ITS-dedicated spectrum in both FR1 and FR2.

5. Define mechanism to ensure sidelink operation can be confined to a predetermined geographic area(s) for a given frequency range within non-ITS bands [RAN2].

This applies areas where there is no network coverage.

6. UE Tx and Rx RF requirement for the new features introduced in this WI [RAN4]

7. UE RRM core requirement for the new features introduced in this WI [RAN4]

The core part of WI “NR Sidelink enhancement” has reached 100% completion after RAN#95e (March 2022). The corresponding UE conformance testing specifications are required to be implemented in RAN5 before commercial deployment.

4 Objective

4.1 Objectives Core part WI

The objective of this work item is to specify solutions to UE conformance testing corresponding to the features described in WID of NR Sidelink enhancement, including protocol, RF and RRM test cases and associated test environment, test applicability, etc.

**Discussion:**

r1

AT&T requested to be added as a supporting company.

**Decision:** The document was **revised to R5-223310**.

**R5-222176 New WID on UE Conformance - High power UE (power class 2) for one NR FDD band**

*Type: WID new For: Endorsement  
 Source: China Unicom*

**Abstract:**

Increasing the transmit power of UE has significant benefits on extending cell coverage area and improving the experience of cell edge users. In Rel-16 several study/work items related to HPUE have been proposed and worked on to standardize the requirements for EN-DC scenarios. In Rel-17, HPUE for NR CA and SUL is also specified.

RAN4 introduced a study item on FS\_NR\_PC2\_UE\_FDD at the RP#90 meeting. In the SI, several SAR compliance solutions for NR FDD PC2 were studied, companies reached on consensus that UE-implementation based method would be used to make sure SAR regulation is not violated. At the RP#93 meeting, RAN4 introduced a R17 WI High power UE (power class 2) for one NR FDD band. The completion of the core part and performance part of this R4 WI has achieved 100% at RP#95 meeting.

It is proposed to introduce an associated RAN5 work item to enable UE conformance test for NR PC2 UE on FDD bands.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to the WI ‘NR\_PC2\_UE\_FDD’, by analysing the test case impact, applicability and test environment, and updating the relevant conformance specifications. The conformance testing aspect would consist of RF and RRM areas.

The scope of this work Item includes PC2 UE for NR FDD band n1 and n3.

**Discussion:**

r1

**Decision:** The document was **revised to R5-223311**.

**R5-222177 New WID on UE Conformance - 4Rx support for NR band n8**

*Type: WID new For: Endorsement  
 Source: China Unicom*

**Abstract:**

To provide higher throughput and better coverage, the 4Rx UE requirements for mid/high band had been introduced since Rel 15. With the development of 5G UE capabilities, it is possible to implementing 4 Rx for 5G UE on low band. RAN4 introduced a WI on 4Rx support for NR band n8 at the RP#94 meeting, and the overall completion of this WI has achieved 100% at RP#95 meeting.

To fulfil the demand of market, It is proposed to introduce an associated RAN5 work item to enable UE conformance test for 4Rx support for NR band n8.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this WI is to enable UE conformance testing for the corresponding for 4Rx support for NR band n8 WI listed under clause 2.2, including the RF Test cases for 4Rx support for NR band n8.

**Discussion:**

r1

**Decision:** The document was **revised to R5-223312**.

**R5-222215 New WID on UE Conformance - Enhanced NR support for high speed train scenario for frequency range 1 (FR1)**

*Type: WID new For: Endorsement  
 Source: CMCC*

**Abstract:**

Only single carrier is considered in Rel-16 NR HST WI. To increase the throughput, carrier aggregation (CA) has been adopted and specified as enhanced requirements for NR HST scenario in Rel-17.

In Rel-17 WI on enhanced NR support for high speed train scenario for frequency range 1 (FR1), the enhanced RRM requirements and demodulation requirements for CA were specified to support the speed of up to 500km/h and carrier frequency of up to 3.6GHz.

For RRM, to guarantee the mobility performance for FR1 HST with velocity up to 500km/h, both enhanced requirements for NR inter-frequency measurement and enhanced requirements for CA scenario are specified in TS 38.133. The enhanced requirements for NR inter-frequency measurement include NR cell re-selection requirements, time period for PSS/SSS detection, time period for time index detection and measurement period requirements. The enhanced requirements for CA include both measurement on activated SCells and measurement on deactivated SCells.

For UE demodulation requirements for CA, both HST-SFN (High Speed Train Single Frequency Network) joint transmission scheme and DPS (Dynamic Point Selection) transmission scheme are considered. With speed of up to 500km/h and carrier frequency of up to 3.6GHz, the maximum doppler shift is 1667Hz and 870Hz for 30KHz SCS and 15KHz SCS respectively. For 15KHz SCS, specify PDSCH requirements on single carrier of BW of {5, 10, 15, 20, 25, 30,35, 40, 45, 50} MHz. For 30KHz SCS, specify PDSCH requirements on single carrier of BW of {5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100} MHz.

The Rel-17 WI NR\_HST\_FR1\_enh-Core has been 100% completed and NR\_HST\_FR1\_enh-Perf has been 70% completed at RAN#95-e meeting. According to the requirements of NR network deployment and performance optimization, it is justified now to start the work on the corresponding UE conformance test specifications for Enhanced NR HST (FR1) features in 3GPP RAN WG5 to meet the market requirements in time.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to WID on Enhanced NR HST (FR1) with Unique identifier 890058. This work item will cover Demod and RRM conformance test specifications with Enhanced NR HST (FR1).

**Discussion:**

r1

**Decision:** The document was **revised to R5-223313**.

**R5-222347 New WID on Enhanced Industrial Internet of Things (IoT) and ultra-reliable and low latency communication (URLLC) support for NR**

*Type: WID new For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

Bureau Veritas: there is no TT analysis.

r2

**Decision:** The document was **revised to R5-223314**.

**R5-222451 New WID - UE Conformance - enhancement of RAN slicing for NR**

*Type: WID new For: Endorsement  
 Source: CMCC*

**Abstract:**

In Rel-17 the enhancement of RAN Slicing for NR was specified to define the slice-based cell reselection and slice based RACH configuration, as well as to define solutions to support slice based service continuity, and to support the enforcement of Slice MBR and the usage of Target NSSAI. The requirements on UE are to support the slice based cell reselection and slice based RACH configuration.

The completion level of the 3GPP Rel-17 work item on enhancement of RAN Slicing for NR has achieved 95% at RAN#95-e (March-2022). The target completion date is June 2022.There is a need to introduce an associated RAN5 work item to enable UE conformance testing for Enhancement of RAN Slicing for NR.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of the proposed Work Item is to define UE conformance requirements corresponding to the WID on Rel-17 enhancement of RAN Slicing for NR, including protocol test cases for slice based cell reselection and slice based RACH configuration, and the associated test environment, test applicability, etc.

**Discussion:**

r1

AT&T asked to support.

**Decision:** The document was **revised to R5-223315**.

**R5-222510 New WID on UE Conformance – UE power saving enhancements for NR**

*Type: WID new For: Approval  
 Source: MediaTek Inc.*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223316**.

**R5-222558 New WID on UE Conformance - Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC)**

*Type: WID new For: Approval  
 Source: Apple Portugal, ROHDE & SCHWARZ, Vivo*

**Discussion:**

r1

AT&T recommended to remove TRs 38.903 and .905.

**Decision:** The document was **revised to R5-223317**.

**R5-222563 New WID on UE Conformance – NR small data transmissions in INACTIVE state**

*Type: WID new For: Endorsement  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

NR supports RRC\_INACTIVE state and UEs with infrequent (periodic and/or non-periodic) data transmission are generally maintained by the network in the RRC\_INACTIVE state. Until Rel-16, the RRC\_INACTIVE state doesn’t support data transmission. Hence, the UE has to resume the connection (i.e. move to RRC\_CONNECTED state) for any DL (MT) and UL (MO) data. Connection setup and subsequently release to INACTIVE state happens for each data transmission however small and infrequent the data packets are. This results in unnecessary power consumption and signalling overhead.

Signalling overhead from INACTIVE state UEs for small data packets is a general problem and will become a critical issue with more UEs in NR not only for network performance and efficiency but also for the UE battery performance. In general, any device that has intermittent small data packets in INACTIVE state will benefit from enabling small data transmission in INACTIVE.

The key enablers for small data transmission in NR, namely the INACTIVE state, 2-step, 4-step RACH and configured grant type-1 have already been specified as part of Rel-15 and Rel-16. So, this work builds on these building blocks to enable small data transmission in INACTIVE state for NR.

At the RP#86 meeting, the WI NR small data transmissions in INACTIVE state with 2 sub-WIs Core part and Perf. part has been introduced into 3GPP, and the overall completion of the core part of NR small data transmissions in INACTIVE state has already achieved 100% at the RP#95 meeting in March 2022. The Perf. part of NR small data transmissions in INACTIVE state WI is expected to complete in RP#97

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this WI is to enable UE conformance testing for the corresponding for Rel-17 NR small data transmissions in INACTIVE state WI listed under clause 2.2, including the following areas:

 Protocol test case for NR small data transmissions in INACTIVE state

 RRM test cases for NR small data transmissions in INACTIVE state

**Discussion:**

r2

**Decision:** The document was **revised to R5-223318**.

**R5-222654 New WID on UE Conformance - NR Uplink Data Compression (UDC)**

*Type: WID new For: Endorsement  
 Source: CATT*

**Abstract:**

Uplink Data Compression (UDC) was introduced in LTE to save UL resources and reduce transmission latency.

The core part of the WI UDC support for NR SA (standalone) and MR DC with 5GC scenario was introduced in Rel-17. It uses LTE solutions as a baseline and takes the NR architectures and features into account.

The completion level of the 3GPP Rel-17 work item on NR Uplink Data Compression had achieved 100% at RP#95-e (Mar-2022). There is a need to introduce an associated RAN5 work item to enable UE conformance testing for NR Uplink Data Compression.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to enable protocol conformance testing for NR Uplink Data Compression. Including protocol test cases for UDC continuity, the PDCP PDU format and PDCP procedures supporting UDC solution in NR PDCP, and the associated test environment, test applicability, etc.

**Decision:** The document was **revised to R5-223319**.

**R5-222717 New WID on UE Conformance – Enhanced Private Network Support for NG-RAN**

*Type: WID new For: Endorsement  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

SA2 has studied enhancements of support for non-public networks under study item "Study on enhanced support of Non-Public Networks" (FS\_eNPN). SA2 study is now concluded. The conclusions of the SA2 study are captured in 3GPP TR 23.700-07 and provide a good overview of what is to be continued into normative phase and of what impacts to other working groups are expected in normative phase. Furthermore, SA plenary approved work item "Enhanced support of Non-Public Networks" (eNPN) for SA2 normative work.

RAN plenary approved work item "Enhancement of Private Network Support for NG-RAN" for RAN normative work. The RAN2 core specification changes for enhancement of Private Network Support for NG-RAN, will require corresponding RAN5 specification update to complete conformance requirements.

Impacts on protocols and interfaces under CT WGs' responsibilities are identified and the related work in CT WGs is expected to be completed within Rel-17. The CT core spec changes will also require corresponding RAN5 specification update to complete conformance requirements.

The overall completion level for the core part of NG\_RAN\_PRN\_enh WI on the RAN side is 100% completed at the RAN #95e in March 2022, and the eNPN WI core part on the CT side is expected to be completed in Jun 2022. The corresponding UE conformance specifications are now required to be implemented in RAN5.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to WID on Rel-17 Enhancement of Private Network Support for NG-RAN and CT aspects of Enhanced support of Non-Public Networks, analyse the test case impact, applicability, test environment, and update the relevant conformance specifications for Rel-17.

**Discussion:**

r1

added Qualcomm

**Decision:** The document was **revised to R5-223320**.

**R5-222744 New WID on UE Conformance- Introduction of DL 1024 QAM for NR Frequency Range 1 (FR1)**

*Type: WID new For: Endorsement  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

AT&T requested to be added.

**Decision:** The document was **revised to R5-223321**.

**R5-222750 New WID on UE Conformance - Further enhancements on MIMO for NR**

*Type: WID new For: Endorsement  
 Source: Samsung, Huawei, Hisilicon*

**Abstract:**

The Rel-15 NR includes a number of MIMO features that facilitate utilization of a large number of antenna elements at base station for both sub-6GHz and over-6GHz frequency bands. The Rel-16 NR enhances Rel-15 by introducing enhanced Type II codebook with DFT-based compression, support for multi-TRP transmission especially for eMBB and PDSCH, enhancements for multi-beam operation including reduction in latency and/or overhead for various reconfigurations (QCL-related, measurements), SCell beam failure recovery (BFR), and L1-SINR. In addition, low PAPR reference signals and features enabling uplink full-power transmission are also introduced.

As NR is in the process of commercialization, various aspects that require further enhancements can be identified from real deployment scenarios. Such aspects include the following. First, while Rel-16 manages to offer some reduction in overhead and/or latency, high-speed vehicular scenarios (e.g. a UE traveling at high speed on highways) at FR2 require more aggressive reduction in latency and overhead – not only for intra-cell, but also for L1/L2 centric inter-cell mobility. This also includes reducing the occurrence of beam failure events. Second, while enhancements for enabling panel-specific UL beam selection was investigated in Rel-16, there was not sufficient time to complete the work. This offers some potential for increasing UL coverage including, e.g. mitigating the UL coverage loss due to meeting the MPE (maximum permissible exposure) regulation. It is noted that MPE issue may occur on all transmit beams from the panel, therefore, a solution for MPE mitigation may only be performed per panel basis to meet the regulatory requirement for scenarios of interest.

Third, channels other than PDSCH can benefit from multi-TRP transmission (as well as multi-panel reception) which also includes multi-TRP for inter-cell operations. This includes some new use cases for multi-TRP such as UL dense deployment within a macro-cell and/or heterogeneous-network-type deployment scenarios. Fourth, due to the use of SRS for various scenarios, SRS can and should be further enhanced at least for capacity and coverage. Fifth, although Rel-16 supports enhanced Type II CSI, some room for further enhancements can be perceived. This includes CSI designed for multi-TRP/panel for NC-JT use case and the utilization of partial reciprocity on channel statistics such as angle(s) and delay(s) mainly targeting FR1 FDD deployments.

The Rel-17 WI NR\_feMIMO-Core has been 100% completed and NR\_feMIMO-Perf has been 25% completed at RAN#95-e meeting. According to the requirements of NR network deployment and performance optimization, it is justified now to start the work on the corresponding UE conformance test specifications for NR feMIMO features in 3GPP RAN WG5 to meet the market requirements in time.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to ‘WI NR\_feMIMO’, by analysing the test case impact, applicability and test environment, and updating the relevant conformance specifications. This work item will cover Demod and RRM conformance test specifications for NR\_feMIMO.

**Discussion:**

r1

**Decision:** The document was **revised to R5-223322**.

**R5-222751 New WID on UE Conformance - NR support for high speed train scenario in frequency range 2 (FR2)**

*Type: WID new For: Endorsement  
 Source: Samsung*

**Abstract:**

5G NR operating in millimeter wave bands (i.e., Frequency Range 2) is recognized as the technology capable of providing ultra-high data-rate transmission, thanks to the availability of enormous amount of bandwidth in FR2 and the advanced 5G NR design for FR2 beamforming-based operation. Inspired by the successful commercial FR2 deployment globally, more potential 5G NR deployment scenarios in FR2 draw attentions from the industry. Among those scenarios identified, high speed train (HST) scenario has the special importance, because of the fast expanding HST systems worldwide deployed and the great demands of high-speed connections from passengers and HST special services. This triggers the new and challenging demand for 5G NR FR2 HST scenario.

In existing study and work items led by 3GPP RAN4 (for either LTE or NR), high speed train scenarios under consideration has the operating bands up to 3.5GHz, however no existing works studied the more challenging millimeter wave frequency range 2, in which Doppler shift and Doppler spread will be further severe (e.g., for 240km/h with 28GHz, the Doppler shift is about 6.22kHz) and more challenging to radio resource management. Specifically, the existing FR2 RRM and demodulation requirements has not yet taken into account the impact of high speed in the above-mentioned scenario, where the channel model and mobility scenario need further study and the demodulation, measurement, mobility and beam management related requirements require to be further specified.

It should be noted that user equipment considered in 5G NR FR2 HST scenario is vehicle-roof mounted customer-premises equipment (CPE), which are expected to communicate with track-side deployed gNBs for the backhaul link and to further provide on-board broadband connections to user terminals and/or for other train-specific demands as access link.

The Rel-17 WI NR\_HST\_FR2-Core has been 100% completed and NR\_HST\_FR2-Perf has been 50% completed at RAN#95-e meeting. According to the requirements of NR network deployment and performance optimization, it is justified now to start the work on the corresponding UE conformance test specifications for NR HST in FR2 features in 3GPP RAN WG5 to meet the market requirements in time.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to WI ‘NR\_HST\_FR2’, by analysing the test case impact, applicability and test environment, and updating the relevant conformance specifications. This work item will cover RF, Demod and RRM conformance test specifications for NR\_HST\_FR2.

**Discussion:**

r1

ore WID has protocol impact

**Decision:** The document was **revised to R5-223323**.

**R5-222806 New WID for IMS Data Channel test**

*Type: WID new For: Endorsement  
 Source: Huawei, Hisilicon*

**Abstract:**

The IMS data channel uses the data channel media type as defined in 3GPP Release 16 TS 26.114 and can be used in parallel with other media types such as voice and video in the Multimedia Telephony (MMTel) service. This data channel is highly flexible and can be used to carry any type of information between the User Equipment (UE) and the network or end-to-end between UEs. It is based on the WebRTC data channel protocol stack as specified by the World Wide Web Consortium (W3C) and Internet Engineering Task Force (IETF). It is adapted to be used in the 3GPP MMTel context by new procedures in 3GPP Release 16 TS 26.114 and through minor extensions to existing call handling procedures in 3GPP Release 17 TS 24.229, TS 29.165 TS 24.173.

However, the IMS Data Channel test cases are missing in the current RAN5 test specifications. Specifying IMS Data Channel test cases will benefit the IMS based real-time communication industry.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

IMS Data Channel applies to VoLTE and VoNR. So for each Radio access, the objective includes at least the following areas:

1. Initial Registration to check if UE can include the sip.app-subtype media feature tag with a value "webrtc-datachannel" if the UE supports IMS data channel.

2. Bootstrap data channel to check if UE and network can establish bootstrap data channel.

3. Application data channel to check if application data channel can be established between UE and network or end-to-end between UEs.

4. IMS data channel associated with an IMS call (Voice, Video) to check if UE can support using data channel simultaneously with voice or video media.

5. MT Data Channel Call coexists with other scenario such as Forking to check if a terminating UE that supports data channel can be selected.

6. MO Data Channel Call fallback to voice call to check if the data channel call can fallback to voice call when originating UE requests data channel but terminating UE doesn't support data channel.

**Discussion:**

r1

**Decision:** The document was **revised to R5-223356**.

**R5-223356 New WID for IMS Data Channel test**

*Type: WID new For: Endorsement  
 Source: Huawei, Hisilicon*

(Replaces R5-222806)

**Discussion:**

Proponents accepted the proposal to delay the WID for one meeting cycle to allow further discussion on testing scope, testability, test implementation, SS support required etc. to be concluded.

"

**Decision:** The document was **noted**.

**R5-222874 New WID on: UE Conformance Test Aspects - Introduction of upper 700MHz A block E-UTRA band for the US (band 103)**

*Type: WID new For: Endorsement  
 Source: Puloli*

**Abstract:**

The core and performance work items for LTE band 103 were completed at RAN#95-e March-2022, as inclusion of the LTE systems in the upper 700MHz A block for the US. This band is restricted to NB-IoT operation only.

There is a need to introduce an associated RAN5 work item to enable UE conformance testing for Ues supporting for LTE Band 103.

4 Objective

The objective of this work item is to provide UE conformance test cases for the RF. RRM and protocol aspects of the Rel-17 core and performance parts for LTE Band 103 to support for NB1 and NB2 UE.

**Discussion:**

pls. use latest RAN template.

**Decision:** The document was **revised to R5-223324**.

**R5-222907 New WID on UE Conformance – RF requirements enhancements for NR frequency range 1 (FR1)**

*Type: WID new For: Endorsement  
 Source: Huawei, China Telecom, CMCC, China Unicom*

**Abstract:**

The Rel-17 ‘NR\_RF\_FR1\_enh’ WI is a RAN4 leading WI. Following features and requirements are specified under the work item:

• 1) Enable UL MIMO configuration for SUL band configurations

• 2) Specify UE requirements to enable Tx switching between different cases across carriers based on SUL and NR inter-band uplink CA for UE supporting maximum two concurrent transmissions

• 3) HPUE for TDD intra-band contiguous and non-contiguous UL CA

• 4) Specify RF requirements for intra-band UL contiguous CA for UL MIMO.

After RAN#95-e, the completion of the core part has achieved 100%, and the performance part is targeted at June 2022. It’s proper time for RAN5 to start a work item to deliver relevant conformance test cases for Rel-17 NR\_RF\_FR1\_enh requirements.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to the WI ‘NR\_RF\_FR1\_enh’, by analysing the test case impact, applicability and test environment, and updating the relevant conformance specifications. The conformance testing aspect would consist of RF and RRM areas.

**Discussion:**

AT&T requested to be added.

Also Nokia, Qualcomm.

**Decision:** The document was **revised to R5-223325**.

**R5-222938 New WID on UE Conformance - NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) including EPS aspects**

*Type: WID new For: Endorsement  
 Source: MediaTek Inc.*

**Abstract:**

IoT operation is critical in remote areas with low/no cellular connectivity for many different industries, including e.g.:

- Transportation (maritime, road, rail, air) & logistics

- Solar, oil & gas harvesting

- Utilities

- Farming

- Environment monitoring

- Mining etc.

The capabilities of NB-IoT and eMTC are a good fit to the above but will require satellite connectivity to provide coverage beyond terrestrial deployments, where IoT connectivity is required. There is an urgent need for a standardized solution allowing global IoT operation anywhere on Earth, in view of other solutions already available.

RAN#92-e approved a Rel-17 Work Item LTE\_NBIOT\_eMTC\_NTN in RP-211601 to address the above demand for IoT. The work item is carried out to enable NB-IoT and eMTC to support Non-Terrestrial Networks (NTN) under the following assumptions:

• Transparent payload based GEO and NGSO network scenarios addressing at least 3GPP power class 3 UE with GNSS capability in both Earth fixed &/or moving cell configurations.

The Work Item LTE\_NBIOT\_eMTC\_NTN included objectives to enhance RAN1, RAN2, and RAN3 specifications in Rel-17 to enable NB\_IoT and eMTC to operate in an NTN.

And SA#93-e approved a Rel-17 Work Item IoT\_SAT\_ARCH\_EPS in SP-211124 to define minimum essential functionality to introduce support for NB-IoT and eMTC Non-Terrestrial Networks in EPS using 5GSAT\_ARCH solutions as baseline and adjusting them to EPS and NB-IoT/eMTC characteristics as necessary, in alignment with the RAN Work Item.

The completion level of the 3GPP Rel-17 work item on NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) has achieved 99% at RP#95-e (Mar-2022), and the Target Completion Date of the WI is June 2022. The completion level of the 3GPP Rel-17 work item on Architecture support for NB-IoT/eMTC Non-Terrestrial Networks in EPS is 100% at SA2#149-e (Feb-2022). To fulfil the strong demand of IoT NTN, there is a need to introduce an associated RAN5 work item to enable UE conformance testing for NB-IoT/eMTC support for Non-Terrestrial Networks (NTN).

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to enable UE conformance testing for Rel-17 NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) WI corresponding to the WID on LTE\_NBIOT\_eMTC\_NTN with Unique identifier 920069 and the WID on IoT\_SAT\_ARCH\_EPS with Unique identifier 930019.

**Discussion:**

offline comments from TF160.

**Decision:** The document was **revised to R5-223326**.

**R5-223026 New WID on UE Conformance – NR RRM Enhancements**

*Type: WID new For: Approval  
 Source: Apple Portugal*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223329**.

**R5-223053 New WID on UE Conformance - Inter-system Mobility between untrusted Non-3GPP and 3GPP system**

*Type: WID new For: Endorsement  
 Source: China Telecommunications*

**Abstract:**

During 5G era, higher spectrum deployment lead to high cost to achieve deep and wide-area network coverage. Wi-Fi can be a good supplement to cellular coverage especially for indoor scenarios. Seamlessly mobility between cellular and Wi-Fi can provide user better service experience.

According to GSMA statistic, there are more than sixty operators all over the world deploying Wi-Fi calling with untrusted non-3GPP access. Inter system mobility between 3GPP and non-3GPP is very critical feature for securing call continuity.

The SA2 has already finished the core spec for non-3GPP access to 5G System in Rel 15. CT1 have defined protocol requirement for access procedures to the 5G System via non-3GPP access networks. The RAN5 have also defined the UE conformance test cases for non-3gpp access through N3IWF to 5GC including mobility management part and session management part. However, the inter system mobility between 3GPP and non-3GPP is not covered in RAN5 specification. The situation is the same for non-3GPP access to EPS.

There are already some platforms supporting non-3GPP and 3GPP access to 5GC/EPS in one system. To meet the industry requirement there is a need for RAN5 to start a work item to deliver conformance test cases for inter-system mobility between Non-3GPP and 3GPP system.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to provide conformance test specifications for the inter-system mobility between untrusted Non-3GPP Access and 3GPP Access. The WI will cover the following aspects:

- Handover between the NR and 5GS /N3IWF

- Handover between EPS and 5GS /N3IWF

- Handover between EPC/ePDG and 5GS

- Handover between LTE and EPC/ePDG

**Discussion:**

no discussion doc.

Postponed.

**Decision:** The document was **withdrawn**.

**R5-223121 New WID on UE Conformance – Further enhancement on NR demodulation performance**

*Type: WID new For: Endorsement  
 Source: China Telecom, Qualcomm*

**Abstract:**

NR Rel-15 demodulation performance requirements was started from April 2018 and completed by December 2019. Several NR features specified in Rel-15 core part are not covered when developing the Rel-15 performance requirements.

A Rel-16 WI on Rel-15 demod leftovers was approved in June 2019, which specifies:

• UE demod/CSI requirements including CA normal demod, CA CQI reporting, CA power imbalance demod, EN-DC power imbalance demod, PMI reporting for Tx ports larger than 8 and up to 32, TDD LTE-NR co-existence demod requirements;

BS demod requirements including 30% throughput PUSCH, testable PUSCH 2T2R 16QAM requirements for FR2.

Rel-17 WI is approved to define performance requirements for the selected NR features including PDSCH advanced receivers for handling inter-cell and inter-user interference, PUSCH 256QAM requirements for FR1.

After RAN#95-e, the completion of the core part has achieved 60%, and the performance part is 85% completed. The RAN4 WI is expected to be completed at June 2022. Corresponding UE conformance test case designing and specification work can now be started in RAN5.

4 Objective

4.1 Objective of SI or Core part WI or Testing part WI

The objective of this work item is to define the UE conformance requirements corresponding to ‘Further enhancement on NR demodulation performance’ WI, analyse the test case impact, applicability, test environment, and update the relevant conformance specifications for Rel-17. The conformance testing aspect would consist of Demod area.

**Discussion:**

AT&T asked to be added.

Bueau Veritas wondered whether RRM TT is needed.

**Decision:** The document was **revised to R5-223327**.

**R5-223154 New WID on UE Conformance – Solutions for NR to support non-terrestrial networks (NTN)**

*Type: WID new For: Endorsement  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

more supporting companies.

**Decision:** The document was **revised to R5-223328**.

### 4.2 General Discussion Papers

#### 4.2.1 5GS

**R5-222805 Discussion paper on IMS Data Channel test**

*Type: discussion For: Endorsement  
 Source: Huawei, Hisilicon*

**Abstract:**

AI 6.6.6.6

associated WID 2806.

**Discussion:**

to be handled in SIG.

r2

action on proponents to do further work offline between now and RAN5#96-e meeting.

**Decision:** The document was **revised to R5-223355**.

**R5-223355 Discussion paper on IMS Data Channel test**

*Type: discussion For: Endorsement  
 Source: Huawei, Hisilicon*

(Replaces R5-222805)

**Decision:** The document was **noted**.

**R5-222871 Discussion on handling of pending configurations in Section 5 of TS 38.521-1, -2, -3**

*Type: discussion For: Agreement  
 Source: CMCC, BV, Ericsson*

**Abstract:**

Background Information:

WI “NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest” was proposed and approved at RAN#83 March 2019 [1].

The guidance “Pending configurations can NOT accept contributions in RAN5” was introduced and agreed by RAN5 at RAN5#85 November 2019 [2].

The guidance “Pending configurations can NOT accept contributions in RAN5” was extended to be applied to all the configurations specific WIs Release 15 and forward at RAN5#94e, and has been captured in PRD21 v1.0.0 [3].

The guidance “any configuration specific change requests to Chapter 5 ONLY shall NOT be accepted by RAN5” was introduced and agreed by RAN5 at RAN5#87e May 2020 [4], and has been captured as Point 14 in Section 4.1 of PRD21 v1.0.0 [3].

Observation 1: As of RAN5#94e Feb 2022, there are around 600 “pending” configurations existing in Chapter 5 of TS 38.521-3. This may lead to misunderstanding that these configs are of interest to the industry or even ready for validation/certification which is not the fact. Among these unassigned “pending” configurations in Chapter 5 of TS 38.521-3, there are

a) configurations which only exist in Chapter 5 but not in any other Chapter 6/7 test cases of TS 38.521-3.

b) configurations which exist in Chapter 5 and also in some Chapter 6/7 test cases of TS 38.521-3.

Proposal 1: To remove all the specific “pending” configurations from Chapter 5, Chapter 6 and Chapter 7 of TS 38.521-3 at RAN5#96e (August 2022).

Proposal 2: To remove all the specific “pending” configurations from Chapter 5, Chapter 6 and Chapter 7 of TS 38.521-1 at RAN5#96e (August 2022) if there is any.

Proposal 3: To remove all the specific “pending” configurations from Chapter 5, Chapter 6 and Chapter 7 of TS 38.521-2 at RAN5#96e (August 2022) if there is any.

Proposal 4: No “pending” configurations shall be added into Chapter 5 or Chapter 6 or Chapter 7 of TS 38.521-1/2/3 since RAN5#95e (May 2022).

**Discussion:**

r3

Orange wondered whether parts could be re-introduced later. This was confirmed.

AT&T had no issues with Proposal 4.

Proposals accepted with timeline changed to RAN5#97.

**Decision:** The document was **revised to R5-223337**.

**R5-223337 Discussion on handling of pending configurations in Section 5 of TS 38.521-1, -2, -3**

*Type: discussion For: Agreement  
 Source: CMCC, BV, Ericsson*

(Replaces R5-222871)

**Decision:** The document was **noted**.

**R5-222872 Discussion on handling of different types of configurations among WIs**

*Type: discussion For: Agreement  
 Source: CMCC, Huawei, Hisilicon, Ericsson*

**Abstract:**

Observation 1: The requirements for different types of CA configurations have been defined in different RAN4 WIs, which leads to complex RAN5 WIs’ scopes differentiation.

Proposal 1: To adopt the following WIs’ scopes dividing solution to handle CA related test cases in RAN5. Rapporteurs to update the corresponding WPs accordingly. Contributions to be submitted under the corresponding WIC.

**Discussion:**

r1

Proposal is accepted.

**Decision:** The document was **revised to R5-223338**.

**R5-223338 Discussion on handling of different types of configurations among WIs**

*Type: discussion For: Agreement  
 Source: CMCC, Huawei, Hisilicon, Ericsson*

(Replaces R5-222872)

**Decision:** The document was **noted**.

**R5-223051 Proposing a new WI for inter-system mobility test cases between untrusted Non-3GPP and 3GPP system**

*Type: discussion For: Information  
 Source: China Telecommunications*

**Abstract:**

AI 6.4.7

The purpose of this document is to discuss about adding inter-system mobility test cases between untrusted Non-3GPP and 3GPP system in 36.523 and 38.523.

2. Discussion

During 5G era, higher spectrum deployment lead to high cost to achieve deep and wide-area network coverage. Wi-Fi can be a good supplement to cellular coverage especially for indoor scenarios. Indoor voice call issues are in the top list of customer complaints.Wi-Fi Calling provides an opportunity to address the 5G indoor coverage issues in a cost-efficient and effective way. Seamlessly mobility between cellular and Wi-Fi can provide user better service experience when making call indoor.

According to GSMA statistic, there are more than sixty operators all over the world deploying Wi-Fi calling with untrusted non-3GPP access. Inter system mobility between 3GPP and non-3GPP is very critical feature for securing call continuity.

The SA2 has already finished the core spec for non-3GPP access to 5G System in Rel 15. CT1 have defined protocol requirement for access procedures to the 5G System via non-3GPP access networks. The RAN5 also have defined the UE conformance test cases for non-3gpp access through N3IWF to 5GC including mobility management part and session management part. However, the inter system mobility between 3GPP and non-3GPP is not covered in RAN5 specification. The situation is the same for non-3GPP access to EPS.

There are already some platforms supporting non-3GPP and 3GPP access to 5GC/EPS in one system. Therefore, we have the following proposals:

Proposal 1: RAN5 start a new WI to introduce inter-system mobility test cases between untrusted Non-3GPP and 3GPP system in 36.523 and 38.523. The test cases should cover the aspects as follow：

1) Handover between the NR and 5GS /N3IWF

2) Handover between EPS and 5GS /N3IWF

3) Handover between EPC/ePDG and 5GS

4) Handover between LTE and EPC/ePDG

Proposal 2: The test cases to be finished in RAN#99 meeting.

**Discussion:**

no WID template!!!!!

Is a discussion doc instead of a new WID!!!

AI 4.1, moved to SIG.

RAN5 Chair: . If RAN5 agrees to add the test coverage it will be done under maintenance not under a new WI, so no need of a WID.

The discussion document only impacts signalling, so need to be moved to SIG agenda. It covers both 5GS and LTE, it can be moved to 6.4.7.

r1

**Decision:** The document was **revised to R5-223352**.

**R5-223352 Proposing a new WI for inter-system mobility test cases between untrusted Non-3GPP and 3GPP system**

*Type: discussion For: Information  
 Source: China Telecommunications*

(Replaces R5-223051)

**Decision:** The document was **noted**.

#### 4.2.2 All other topics

**R5-222906 Draft ITU-R document for IMT-2020**

*Type: discussion For: Information  
 Source: Huawei, HiSilicon*

**Abstract:**

During RAN5 #93e meeting, LS R5-216419 was received from ITU-R WP 5D requesting input for ITU-R document for IMT-2020. During RAN5#94e meeting, RAN5 confirmed the target of this work would be RAN5#96 (Aug 22).

At RAN5#94 meeting, the initial skeleton of ITR-R document correspoinding to TS 38.521-3 was provided by R5-220783. This document is to further update the ITU-R document for TS 38.521-3 part. The main contents have been completed, with a lot of references remaing for further update when the clauses for TS 38.521-1 and TS 38.521-2 are ready.

**Decision:** The document was **noted**.

### 4.3 RAN5 PRDs/Templates

**R5-222060 RAN5#95-e LS Template**

*Type: other For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

**R5-222123 Guideline for handling PRD21 CDS documents at RAN5#95-e**

*Type: other For: Endorsement  
 Source: Ericsson*

**Abstract:**

PRD21, clause 6.4 require that the responsible companies for NR bands, NR band CBW extensions, 5G NR CADC configurations to submit a Completion Declaration Statement (CDS) if a band/CBW/configuration is completed for PC3 or any high-power classes PC1.5 or PC2 .

The CDS document is a post-meeting TDOC as it is dependent on the outcome of the meeting.

It is encouraged that TDOCs for CDS documents are allocated before the meeting if a band, CBW Extension or 5G NR CADC configuration for a power class is expected to be completed at the meeting

However, due to the nature of CDS documents need late TDOC request for CDS documents be accepted.

PRD21 CDS document requests shall be allocated under AI 7.3.4 at RAN5#95-e

A PRD21 CDS document may include one or more completed configurations. For transparency of CDS declared configurations in the TDOC list should the title of CDS document list the name of the configuration(s).

Example: PRD21 CDS: PC3 for <name of configuration(s) covered by the CDS>

As PRD21 has not yet included WP templates for PC1.5 and PC2, and that the CDS document is not relevant for all RAN5 WIs in the scope of PRD21 then there is a need for specific handling for those WIs. Slide 5 propose how to handle the PC1.5 and PC.2, and feature specific WIs for RAN5#95-e.

NOTE:

The CDS documents are the base for PRD21 updates for completed NR bands, NR band CBW extensions and 5G NR CADC list and its supported power classes.

Only bands/configurations/power classes declared as completed by a CDS document will be included in PRD21 NR bands and 5G NR CADC lists as completed.

**Discussion:**

r2

**Decision:** The document was **revised to R5-223336**.

**R5-223336 Guideline for handling PRD21 CDS documents at RAN5#95-e**

*Type: other For: Endorsement  
 Source: Ericsson*

(Replaces R5-222123)

**Decision:** The document was **noted**.

**R5-222243 3GPP RAN5 PRD19 v1.3.0: RAN5 generic work plan to v1.3.0**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Attached is proposed updates to PRD19 v1.2.0 on RAN5 generic work plan for RAN5 approval to v1.3.0.

Summary of changes introduced in the draft v1.3.0:

• The generic WP template updated to v2.0-8 fixing issue to save backup of the work plan when it stored in a MicroSoft OneDrive folder.

**Decision:** The document was **approved**.

### 4.4 Meeting schedule for 2022-23

**R5-222061 Meeting schedule for 2022-23**

*Type: other For: Information  
 Source: WG Chairman*

**Discussion:**

change of meetings on 10.5.

Aug. RAN5#96 will be electronic.

**Decision:** The document was **revised to R5-223335**.

**R5-223335 Meeting schedule for 2022-23**

*Type: other For: Information  
 Source: WG Chairman*

(Replaces R5-222061)

**Decision:** The document was **noted**.

### 4.5 Tdocs for mid-week joint session

#### 4.5.1 RF group docs for WG review/verdict - original A.I. retained

#### 4.5.2 Sig group docs for WG review/verdict - original A.I. retained

#### 4.5.3 Other open issues from joint sessions - original A.I. retained

#### 4.5.4 5GS

#### 4.5.5 Study on 5G NR UE full stack testing for Network Slicing (UID-910095) FS\_NR\_Slice\_Test

##### 4.5.5.1 TR 38.918 (pCRs only)

**R5-222860 Updates to Test Configurations**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222861 Updates to Uncertainty and TT Analysis**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222862 Updates to References**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222863 Updates to Test Model**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222864 Updates to Test Parameters**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222865 Text Proposal on Test Procedure A.2.2.5**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222866 Text Proposal on Test Procedure A.2.2.6**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222867 Text Proposal on Test Procedure A.3.1.2**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

**R5-222868 Text Proposal on Test Procedure A.3.2.1**

*Type: pCR For: Approval  
 38.918 v0.4.0  
 Source: CMCC*

**Decision:** The document was **approved**.

##### 4.5.5.2 Discussion Papers, Work Plan, TC lists

**R5-222869 Summary of the documents for TR 38.918**

*Type: discussion For: Information  
 Source: CMCC*

**Abstract:**

Test Configuration and analysis

R5-222860 : Updated function of test equipment and added Traffic Descriptor of second application

R5-222861: Added 5.5.1.1 and 5.5.1.2 describing the Uncertainty of Test System and Test Tolerances

R5-222863: Added description of test model

Test procedures

Added new test procedures

R5-222865: A.2.2.5 5G NR / Mapping Application to Network Slicing / Connection Capabilities

R5-222866: A.2.2.6 5G NR / Mapping Application to Network Slicing / URSP Update

R5-222867: A.3.1.2 5G NR / Service Performance / Multiple Applications with Single Network Slicing

R5-222868: A.3.2.1 5G NR / Service Performance / Multiple Applications with Multiple Network Slicing

Updated existing test procedures

R5-222864: Updated test parameters in A.2.2.1, A.2.2.2, A.2.2.3 and A.2.2.4

Others

R5-222862: Added TS 38.521-4 as referenced test spec

**Decision:** The document was **noted**.

#### 4.5.6 Other

## 5 RF Functional Area

### 5.1 Review action points (fm A.I. 2.1)

### 5.2 Review incoming LS (fm A.I. 3) & new subject discussion papers

**R5-222065 Reply LS on ambiguity in deciding TL,C**

*Type: LS in For: Information  
 Original outgoing LS: R4-2205270, to TSG WG RAN5, cc -  
 Source: TSG WG RAN4*

**Abstract:**

RAN4 thanks RAN5 LS on ambiguity in deciding TL,C. RAN4 has discussed understandings and achieved the following agreement:

The understanding 1 “The source of ∆TC,c is the same as NOTE 3 in table 6.2.1-1, therefore the 1.5dB relaxation shouldn’t be considered again when deciding TL,C” is correct.

Therefore, the numeric example of understanding 1 should be used for the UE conformance testing.

Actions: To TSG RAN WG5: RAN4 asks RAN5 to take into account the above clarification in the future.

**Discussion:**

moved to RF

Huawei: can be noted.

**Decision:** The document was **noted**.

**R5-222066 Response LS to RAN5 on LTE REFSENS Exceptions Simplification**

*Type: LS in For: Information  
 Original outgoing LS: R4-2205271, to TSG WG RAN5, cc -  
 Source: TSG WG RAN4*

**Abstract:**

RAN4 thanks RAN5 the replied LS on LTE REFSENS Exceptions Simplification. RAN4 has discussed the option 2a proposed by RAN5 and agreed to adopt it as below.

Option 2a:

- For new Rel-17 band combinations:

- For TPs for TR: According to the agreed WF, do not specify higher order REFSENS test points if already covered by a fall-back combination,

- For 36.101: Remove REFSENS test points if already covered by fall-back combination via small CR.

- For legacy combinations:

- Keep only the lowest order fall-back test points and remove all redundant REFSENS test points in TS 36.101 Rel-17,

- For 36.101: Clarify that simplified REFSENS requirements in Rel-17 specifications could be release independently supported by earlier UEs. This could be clarified as a NOTE in TS 36.101,

- Do not bring any change to earlier Releases of TS 36.101.

Note that the core requirements for the high order CA combinations are unchanged after simplification. The official CR for LTE REFSENS simplification is attached.

Actions: To TSG RAN WG5: RAN4 asks RAN5 to take this agreement into account in the future.

**Discussion:**

moved to RF

Huawei: can be noted. Shall takecare in the future about the LTE requirements.

**Decision:** The document was **noted**.

**R5-222067 Further Reply LS on requirement in Power Class 2 for UL MIMO**

*Type: LS in For: Information  
 Original outgoing LS: R4-2206296, to GCF CAG, cc -  
 Source: TSG WG RAN4*

**Abstract:**

RAN4 thanks GCF CAG for the LS on power class ambiguities in RAN4 specification. Previously, the conclusion for Rel-16 has been sent back via LS RAN4#96-e (R4-2011903), and the related revision has been applied in Rel-16. Now, RAN4 would like to inform GCF CAG about the conclusions for Rel-15:

For the general description of EN-DC power class in Rel-15 TS 38.101-3 sub-clause 6.1, RAN4 has been decided to keep it as it is.

For the fall back description for section 6.2D.1 of 3GPP 38.101-1, further revision was agreed in CR R4-2118286 and aligned with Rel-16 which is already implemented in TS 38.101-1 V15.16.0.

With this, RAN4 consider this issue closed for Rel-15 and no more discussion is expected. The detailed study process will be added into TR 38.837 V0.4.0.

Action: To GCF CAG: RAN4 asks GCF CAG to take the above information into account.

**Discussion:**

moved to RF

discussion paper R5-222186

CR R5-222192

Huawei: can be noted.

**Decision:** The document was **noted**.

**R5-222068 LS on time mask for TDM NR Uu-SL intra-band concurrent switching**

*Type: LS in For: Information  
 Original outgoing LS: R4-2206526, to TSG WG RAN5, cc -  
 Source: TSG WG RAN4*

**Abstract:**

RAN4 has reached consensus on the time mask requirement as shown below:

The switching time shall be located on the link with lower priority when NR Uu and NR SL have different priorities based on priority information specified in TS 38.321. It is up to UE implementation when NR Uu and NR SL have the same priority based on priority information specified in TS 38.321.

The above time mask requirement is to give criteria on how the switching period position is decided based on priority information. RAN4 made an agreement that no RF test is needed for this NR Uu to NR SL switching time mask requirement defined in TS 38.101-1 Clause 6.3E.3.4.

Action: To RAN5: RAN4 asks RAN5 to take the above information into account.

**Discussion:**

moved to RF

Qualcomm: can be noted.

**Decision:** The document was **noted**.

**R5-222069 Reply LS on configuration of p-MaxEUTRA and p-NR-FR1**

*Type: LS in For: Information  
 Original outgoing LS: R4-2206567, to TSG WG RAN5, cc TSG WG RAN1, TSG WG RAN2  
 Source: TSG WG RAN4*

**Abstract:**

RAN4 thanks RAN5 LS on configuration of p-MaxEUTRA and p-NR-FR1. RAN4 has discussed it and made the following response.

For UEs supporting dynamic power sharing, RAN4 understanding is there is no specified UE behavior when the network does not configure p-MaxEUTRA or p-NR-FR1. It is up to RAN1 to confirm if this is a valid configuration. RAN4 will further discuss whether ‘infinity’ could be used as default value if these two parameters are not configured, and whether and how to capture this in the specification.

For UEs not supporting dynamic power sharing, RAN4 understanding is the UE’s transmitted power is not fully specified by RAN4. It is up to RAN1 to decide if p-MaxEUTRA or p-NR-FR1 should be configured by the network or if default values are needed.

Actions to TSG RAN WG5: RAN4 asks RAN5 to take into account the above information in the conformance testing work.

**Discussion:**

moved to RF

Huawei: can be noted.

**Decision:** The document was **noted**.

**R5-222070 Reply LS on configuration of p-MaxEUTRA and p-NR-FR1**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202769, to TSG WG RAN5, cc TSG WG RAN2, TSG WG RAN4  
 Source: TSG WG RAN1*

**Abstract:**

RAN1 thanks RAN5 for the LS on configuration of p-MaxEUTRA and p-NR-FR1. RAN1 answers are as follows.

Q1: Whether the RAN1 specifications require that the IEs p-MaxEUTRA and p-NR-FR1 are always configured by the network when UE works in EN-DC connectivity mode.

Answer: there is no specified UE behavior in existing RAN1 specifications for the case where FR1-FR1 EN-DC is configured but p-MaxEUTRA or p-NR-FR1 is not configured. RAN1 may discuss potential action, if any, after RAN2/4 responses are received.

Actions: To: RAN5 RAN1 asks RAN5 to take the above answer into account in their future work.

**Discussion:**

moved to RF

Huawei: can be noted.

**Decision:** The document was **noted**.

### 5.3 Open Work Items

#### 5.3.1 Rel-15 LTE CA configurations (UID - 770064) LTE\_CA\_R15-UEConTest

##### 5.3.1.1 TS 36.508

##### 5.3.1.2 TS 36.521-1

##### 5.3.1.3 TS 36.521-2

**R5-223194 Applicability of 6DL and 7DL CA RRM test cases**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0984 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test cases applicability

**Decision:** The document was **agreed**.

##### 5.3.1.4 TS 36.521-3

**R5-223187 Addition of 6 DL CA Event Triggered Reporting on Deactivated SCell test case 8.16.96**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2639 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test case

**Discussion:**

r1

**Decision:** The document was **revised to R5-223648**.

**R5-223648 Addition of 6 DL CA Event Triggered Reporting on Deactivated SCell test case 8.16.96**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2639 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223187)

**Decision:** The document was **agreed**.

**R5-223188 Addition of 6 DL CA Activation and Deactivation of Known SCell Test Case 8.16.97**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2640 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test case

**Decision:** The document was **agreed**.

**R5-223189 Addition of 6 DL CA Activation and Deactivation of Unknown SCell Test Case 8.16.98**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2641 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test case

**Decision:** The document was **agreed**.

**R5-223190 Addition of 7 DL CA Event Triggered Reporting on Deactivated SCell Test Case 8.16.100**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2642 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test case

**Decision:** The document was **agreed**.

**R5-223191 Addition of 7 DL CA Activation and Deactivation of Known SCell Test Case 8.16.101**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2643 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test case

**Decision:** The document was **agreed**.

**R5-223192 Addition of 7 DL CA Activation and Deactivation of Unknown SCell Test Case 8.16.102**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2644 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

New test case

**Decision:** The document was **agreed**.

**R5-223193 Correction of minimum conformance requirements for RRM 3CC, 4CC and 5CC test cases**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2645 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Editorial correction

**Decision:** The document was **agreed**.

##### 5.3.1.5 TS 37.571-1

##### 5.3.1.6 TS 37.571-3

##### 5.3.1.7 TS 37.571-5

##### 5.3.1.8 TR 36.903 (E-UTRAN RRM TT analyses)

##### 5.3.1.9 TR 36.904 (E-UTRAN Radio Reception TT analyses)

##### 5.3.1.10 TR 36.905 (E-UTRAN Test Points Radio Transmission and Reception )

##### 5.3.1.11 Discussion Papers, Work Plan, TC lists

#### 5.3.2 Rel-16 CA configurations (UID - 810061) LTE\_CA\_R16-UEConTest

##### 5.3.2.1 TS 36.508

##### 5.3.2.2 TS 36.521-1

**R5-222542 Editorial correction in Refsens CA test case**

*Type: CR For: Agreement  
 36.521-1 v17.2.0 CR-5405 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Editorial

**Discussion:**

no r1?

**Decision:** The document was **agreed**.

##### 5.3.2.3 TS 36.521-2

##### 5.3.2.4 TS 36.521-3

##### 5.3.2.5 TS 37.571-1

##### 5.3.2.6 TS 37.571-3

##### 5.3.2.7 TS 37.571-5

##### 5.3.2.8 TR 36.903 (E-UTRAN RRM TT analyses)

##### 5.3.2.9 TR 36.904 (E-UTRAN Radio Reception TT analyses)

##### 5.3.2.10 TR 36.905 (E-UTRAN Test Points Radio Transmission and Reception )

##### 5.3.2.11 Discussion Papers, Work Plan, TC lists

#### 5.3.3 REL-16 NR CA and DC; and NR and LTE DC Configurations (UID-830083) NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest

##### 5.3.3.1 TS 38.508-1

###### 5.3.3.1.1 Test frequencies (Clause 4.3.1)

**R5-222173 Introduction of test frequencies for CA\_n77C BCS0 and BCS1**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2296 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR includes test frequencies for CA\_n77C BCS0 which was introduced in Rel-15, but due to the Rel-16 configurations for CA\_n77C BCS0 with UL CA and CA\_n77C BCS1 (with and without UL CA) impact the same table entries it was not possible to split into o

**Decision:** The document was **agreed**.

**R5-222283 Introduction of test frequencies for Rel-16 inter-band EN-DC three band combinations within FR1**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2300 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-223025 Update of NR inter-band CA configurations in FR1**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2376 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

**R5-223067 Addition of test frequency for NR inter-band CA configurations including n1**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2378 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **agreed**.

**R5-223089 Introduction of test frequencies for 2 band EN-DC configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2383 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**R5-223156 Introduction of test frequencies for 3 band EN-DC configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2398 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223649**.

**R5-223649 Introduction of test frequencies for 3 band EN-DC configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2398 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223156)

**Decision:** The document was **agreed**.

**R5-223196 Introduction of test frequencies for additional Rel-16 NR CA DC and EN-DC inter-band configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2400 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Discussion:**

cover Rel-16

r1

**Decision:** The document was **revised to R5-223650**.

**R5-223650 Introduction of test frequencies for additional Rel-16 NR CA DC and EN-DC inter-band configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2400 rev 1 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

(Replaces R5-223196)

**Decision:** The document was **agreed**.

**R5-223226 Correction to 4.3.1.1.5.77 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n77 with class 2A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2407 Cat: F (Rel-17)  
  
 Source: ZTE Corporation, Keysight Technologies*

**Abstract:**

Correct the test frequencies for CA\_n77(2A).

**Discussion:**

comments received from Ericsson

r2

**Decision:** The document was **revised to R5-223651**.

**R5-223651 Correction to 4.3.1.1.5.77 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n77 with class 2A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2407 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation, Keysight Technologies*

(Replaces R5-223226)

**Decision:** The document was **agreed**.

**R5-223227 Correction to 4.3.1.1.5.78 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n78 with class 2A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2408 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the test frequencies for CA\_n78(2A).

**Discussion:**

r2

**Decision:** The document was **revised to R5-223652**.

**R5-223652 Correction to 4.3.1.1.5.78 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n78 with class 2A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2408 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223227)

**Decision:** The document was **agreed**.

**R5-223228 Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R16 configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2409 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the test frequencies for the following Rel-16 EN-DC configurations.

**Discussion:**

will make a revision later to remove the changes for the configuration DC\_1A-28A\_n78C.

r1

**Decision:** The document was **revised to R5-223653**.

**R5-223653 Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R16 configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2409 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223228)

**Decision:** The document was **agreed**.

###### 5.3.3.1.2 Test environment for RF (Clauses 5)

###### 5.3.3.1.3 Test environment for RRM (Clause 7)

###### 5.3.3.1.4 Other clauses, Annexes

##### 5.3.3.2 TS 38.508-2

**R5-222284 Introduction of Rel-16 inter-band EN-DC three band configurations within FR1 for physical layer baseline implementation capabilities**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0321 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-223046 Update of ICS baseline for CA configurations**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0334 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

**R5-223106 Introduction of UE capabilities for 2 band EN-DC configurations**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0337 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223654**.

**R5-223654 Introduction of UE capabilities for 2 band EN-DC configurations**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0337 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223106)

**Decision:** The document was **agreed**.

**R5-223164 Introduction of UE capabilities for 3 band EN-DC configurations**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0341 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 5.3.3.3 TS 38.521-1

###### 5.3.3.3.1 Tx Requirements (Clause 6)

**R5-222202 Correction of Test Environment in Table 6.5A.2.2.1.4.1-2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1619 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222241 Update Spurious emissions for UE co-existence for CA\_n41C**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1629 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222327 Editorial correction for references to Table 5.5A.3-1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1648 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-222331 FR1 - 6.5A.3.2 - Spurious for co-existence - correction for CA\_n41-n79**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1649 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222975 Addition of CA\_n1A-n8A into MOP TC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1723 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

**R5-223240 Introduction of test specifications for additional Rel-16 CA combos to Clause 6**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1753 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223655**.

**R5-223655 Introduction of test specifications for additional Rel-16 CA combos to Clause 6**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1753 rev 1 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

(Replaces R5-223240)

**Decision:** The document was **agreed**.

###### 5.3.3.3.2 Rx Requirements (Clause 7)

**R5-222332 Test procedure correction in FR1 CA test case 7.6A.4.3**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1650 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223656**.

**R5-223656 Test procedure correction in FR1 CA test case 7.6A.4.3**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1650 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222332)

**Decision:** The document was **agreed**.

**R5-223022 Addition of CA\_n1A-n8A into Refsens TC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1728 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

**R5-223248 Update Rx Requirements for additional Rel-16 CA combos**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1754 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG, Apple*

**Discussion:**

missing the corresponding information in TR 38.905 Table 4.1.3.1-2. Will bring back the contributions during the next RAN5 meeting.

**Decision:** The document was **withdrawn**.

###### 5.3.3.3.3 Clauses 1-5, Annexes

**R5-222940 General updates of clause 5 for R16 CADC configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1721 Cat: F (Rel-17)  
  
 Source: China Unicom, Verizon*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223657**.

**R5-223657 General updates of clause 5 for R16 CADC configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1721 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom, Verizon*

(Replaces R5-222940)

**Decision:** The document was **agreed**.

**R5-223215 General updates of clause 5 for additional Rel-16 CA configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1749 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Discussion:**

Merged with R5-222940r1

**Decision:** The document was **withdrawn**.

##### 5.3.3.4 TS 38.521-2

###### 5.3.3.4.1 Tx Requirements (Clause 6)

**R5-223280 Clarification on Configured transmitted power**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0755 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

**Abstract:**

Harmonization with TS 38.101-2 V16.11.0

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223819**.

**R5-223819 Clarification on Configured transmitted power**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0755 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

(Replaces R5-223280)

**Decision:** The document was **agreed**.

**R5-223285 Clarification on mpr-PowerBoost-FR2-r16**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0759 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

**Abstract:**

Clarification on NS 200 A-MPR under power boost conditions

**Discussion:**

late doc

After offline discussion.

r1

**Decision:** The document was **revised to R5-223639**.

**R5-223639 Clarification on mpr-PowerBoost-FR2-r16**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0759 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

(Replaces R5-223285)

**Decision:** The document was **withdrawn**.

5.3.3.4.2 Rx Requirements (Clause 7)

**R5-223277 Clarification on Adjacent channel selectivity**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0754 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

**Abstract:**

Harmonization with TS 38.101-2 V16.11.0

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223822**.

**R5-223822 Clarification on Adjacent channel selectivity**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0754 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

(Replaces R5-223277)

**Decision:** The document was **agreed**.

**R5-223284 Clarification on In-band blocking**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0758 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

**Abstract:**

Harmonization with TS 38.101-2 V16.11.0

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223823**.

**R5-223823 Clarification on In-band blocking**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0758 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

(Replaces R5-223284)

**Decision:** The document was **agreed**.

###### 5.3.3.4.3 Clauses 1-5, Annexes

**R5-223286 Clarification on UE Channel bandwidth per operating band for CA**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0760 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

**Abstract:**

Harmonization with TS 38.101-2 V16.11.0

**Discussion:**

late doc

r3

**Decision:** The document was **revised to R5-223832**.

**R5-223832 Clarification on UE Channel bandwidth per operating band for CA**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0760 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Hungary Kft.*

(Replaces R5-223286)

**Decision:** The document was **agreed**.

##### 5.3.3.5 TS 38.521-3

###### 5.3.3.5.1 Tx Requirements (Clause 6)

**R5-222192 Correction of minimum requirement and test requirement of 6.2B.1.3**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1335 Cat: F (Rel-17)  
  
 Source: CAICT*

**Discussion:**

exceptional handling indicating CR retains config "DC\_8A\_n81A\_ULSUP-TDM\_n78A PC3" as is from TS 38.521-3 h40.

**Decision:** The document was **agreed**.

**R5-222285 Introduction of Output power requirements for DC\_1A\_n8A, DC\_7A\_n8A and DC\_8A\_n28A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1341 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223658**.

**R5-223658 Introduction of Output power requirements for DC\_1A\_n8A, DC\_7A\_n8A and DC\_8A\_n28A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1341 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222285)

**Decision:** The document was **agreed**.

**R5-222286 Introduction of Allowed maximum configured output power relaxation for DC\_1\_n5, DC\_1\_n8, DC\_3\_n5, DC\_7\_n5, DC\_7\_n8 and DC\_8\_n28**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1342 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223659**.

**R5-223659 Introduction of Allowed maximum configured output power relaxation for DC\_1\_n5, DC\_1\_n8, DC\_3\_n5, DC\_7\_n5, DC\_7\_n8 and DC\_8\_n28**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1342 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222286)

**Decision:** The document was **agreed**.

**R5-222287 Introduction of General Spurious emissions requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1343 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223660**.

**R5-223660 Introduction of General Spurious emissions requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1343 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222287)

**Decision:** The document was **agreed**.

**R5-222288 Introduction of Spurious emissions band UE co-existence limits Rel-16 for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1344 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223661**.

**R5-223661 Introduction of Spurious emissions band UE co-existence limits Rel-16 for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1344 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222288)

**Decision:** The document was **agreed**.

**R5-222289 Introduction of Spurious emissions band UE co-existence Test description for DC\_1A\_n8A, DC\_7A\_n5A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1345 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223662**.

**R5-223662 Introduction of Spurious emissions band UE co-existence Test description for DC\_1A\_n8A, DC\_7A\_n5A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1345 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222289)

**Decision:** The document was **agreed**.

**R5-222290 Introduction of Spurious emissions band UE co-existence Rel-16 Test requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1346 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223663**.

**R5-223663 Introduction of Spurious emissions band UE co-existence Rel-16 Test requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1346 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222290)

**Decision:** The document was **agreed**.

**R5-222473 Addtion Delta TIB,c for FR1 EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1359 Cat: F (Rel-17)  
  
 Source: KDDI Corporation*

**Decision:** The document was **agreed**.

**R5-222561 Addition of new CADC MOP TC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1366 Cat: F (Rel-17)  
  
 Source: Intertek*

**Discussion:**

no conflict with R5-222345.

r1

**Decision:** The document was **revised to R5-223664**.

**R5-223664 Addition of new CADC MOP TC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1366 rev 1 Cat: F (Rel-17)  
  
 Source: Intertek*

(Replaces R5-222561)

**Decision:** The document was **agreed**.

**R5-222725 Addition of ACLR Test Case for Inter-band EN-DC including FR2 5 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1371 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223665**.

**R5-223665 Addition of ACLR Test Case for Inter-band EN-DC including FR2 5 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1371 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222725)

**Decision:** The document was **agreed**.

**R5-222726 Addition of ACLR Test Case for Inter-band EN-DC including FR2 6 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1372 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223666**.

**R5-223666 Addition of ACLR Test Case for Inter-band EN-DC including FR2 6 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1372 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222726)

**Decision:** The document was **agreed**.

**R5-222727 Addition of ACLR Test Case for Inter-band EN-DC including FR2 7 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1373 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223667**.

**R5-223667 Addition of ACLR Test Case for Inter-band EN-DC including FR2 7 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1373 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222727)

**Decision:** The document was **agreed**.

**R5-222728 Addition of ACLR Test Case for Inter-band EN-DC including FR2 8 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1374 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223668**.

**R5-223668 Addition of ACLR Test Case for Inter-band EN-DC including FR2 8 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1374 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222728)

**Decision:** The document was **agreed**.

**R5-222729 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 5 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1375 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223669**.

**R5-223669 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 5 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1375 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222729)

**Decision:** The document was **agreed**.

**R5-222730 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 6 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1376 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223670**.

**R5-223670 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 6 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1376 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222730)

**Decision:** The document was **agreed**.

**R5-222731 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 7 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1377 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223671**.

**R5-223671 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 7 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1377 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222731)

**Decision:** The document was **agreed**.

**R5-222732 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 8 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1378 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

add the editor’s note for MU/TT & test applicability.

r1

**Decision:** The document was **revised to R5-223672**.

**R5-223672 Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 8 NR CCs**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1378 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222732)

**Decision:** The document was **agreed**.

**R5-222747 Update 6.5B.3.3.2 for R16 DC\_14\_n2 and DC\_14\_n66**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1380 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

TP analysis update is covered by R5-222734 and R5-222735.

**Discussion:**

conflict with R5-222486.

r1

**Decision:** The document was **revised to R5-223673**.

**R5-223673 Update 6.5B.3.3.2 for R16 DC\_14\_n2 and DC\_14\_n66**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1380 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-222747)

**Decision:** The document was **agreed**.

**R5-223244 Add delta TIBc for inter-band DC\_28A\_n7A-n78A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1390 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

cl. aff.

r1

**Decision:** The document was **revised to R5-223674**.

**R5-223674 Add delta TIBc for inter-band DC\_28A\_n7A-n78A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1390 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223244)

**Decision:** The document was **agreed**.

**R5-223299 Introduction of Allowed reference sensitivity relaxation for DC\_3A-8A\_n28A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1393 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

 TPA in R5-222298 concludes that no test case is needed as no exceptions. However, ΔRIB,c for DC\_3-8\_n28 is missing so late CR is requested to include it into clause 7.3B.3.3.2 / WP Step 3.2: CR(s) to common clauses for RF / Performance testing area (TS 38.521-3)

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223675**.

**R5-223675 Introduction of Allowed reference sensitivity relaxation for DC\_3A-8A\_n28A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1393 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223299)

**Decision:** The document was **agreed**.

###### 5.3.3.5.2 Rx Requirements (Clause 7)

**R5-222302 Introduction of DC\_1A-20A\_n8A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1347 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223676**.

**R5-223676 Introduction of DC\_1A-20A\_n8A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1347 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222302)

**Decision:** The document was **agreed**.

**R5-222303 Introduction of DC\_3A-7A\_n5A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1348 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223677**.

**R5-223677 Introduction of DC\_3A-7A\_n5A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1348 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222303)

**Decision:** The document was **agreed**.

**R5-222304 Introduction of DC\_7A-8A\_n3A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1349 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

replace?

r2

**Decision:** The document was **revised to R5-223678**.

**R5-223678 Introduction of DC\_7A-8A\_n3A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1349 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222304)

**Decision:** The document was **agreed**.

**R5-222305 Introduction of DC\_7A-20A\_n8A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1350 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223679**.

**R5-223679 Introduction of DC\_7A-20A\_n8A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1350 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222305)

**Decision:** The document was **agreed**.

**R5-222306 Introduction of DC\_7A-28A\_n5A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1351 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223680**.

**R5-223680 Introduction of DC\_7A-28A\_n5A reference sensitivity test requirements**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1351 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222306)

**Decision:** The document was **agreed**.

**R5-222474 Addtion Minimum Conformance Requests of REFSENS for FR1 EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1360 Cat: F (Rel-17)  
  
 Source: KDDI Corporation*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223681**.

**R5-223681 Addtion Minimum Conformance Requests of REFSENS for FR1 EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1360 rev 1 Cat: F (Rel-17)  
  
 Source: KDDI Corporation*

(Replaces R5-222474)

**Decision:** The document was **agreed**.

**R5-222475 Introduction of Reference Sensitivity Test for FR1 EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1361 Cat: F (Rel-17)  
  
 Source: KDDI Corporation*

**Discussion:**

the fallback configurations of the EN-DC combinations in this CR haven't been analyzed, comments from Ericsson.

**Decision:** The document was **withdrawn**.

**R5-222543 Correction of Refsens CA test case**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1365 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-223245 Add delta RIBc for inter-band DC\_28A\_n7A-n78A**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1391 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

###### 5.3.3.5.3 Clauses 1-5, Annexes

**R5-222703 Update to R16 Configuration for DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1369 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Nokia, Huawei, HiSilicon*

**Decision:** The document was **agreed**.

##### 5.3.3.6 TS 38.521-4

###### 5.3.3.6.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.3.6.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.3.6.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.3.6.4 Clauses 1-4, Annexes

##### 5.3.3.7 TS 38.522

**R5-222562 Addition of applicability for CADC MOP TC**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0162 Cat: F (Rel-17)  
  
 Source: Intertek*

**Decision:** The document was **agreed**.

##### 5.3.3.8 TS 38.533

##### 5.3.3.9 TR 38.903 (NR MU & TT analyses)

##### 5.3.3.10 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222291 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0591 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223682**.

**R5-223682 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0591 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222291)

**Decision:** The document was **agreed**.

**R5-222292 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0592 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223683**.

**R5-223683 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0592 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222292)

**Decision:** The document was **agreed**.

**R5-222293 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n28A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0593 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223684**.

**R5-223684 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n28A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0593 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222293)

**Decision:** The document was **agreed**.

**R5-222294 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0594 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223685**.

**R5-223685 Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0594 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222294)

**Decision:** The document was **agreed**.

**R5-222295 Introduction of reference sensitivity test point analysis for DC\_1A-20A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0595 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223686**.

**R5-223686 Introduction of reference sensitivity test point analysis for DC\_1A-20A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0595 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222295)

**Decision:** The document was **agreed**.

**R5-222296 Introduction of reference sensitivity test point analysis for DC\_1A-28A\_n5A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0596 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223687**.

**R5-223687 Introduction of reference sensitivity test point analysis for DC\_1A-28A\_n5A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0596 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222296)

**Decision:** The document was **agreed**.

**R5-222297 Introduction of reference sensitivity test point analysis for DC\_3A-7A\_n5A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0597 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223688**.

**R5-223688 Introduction of reference sensitivity test point analysis for DC\_3A-7A\_n5A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0597 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222297)

**Decision:** The document was **agreed**.

**R5-222298 Introduction of reference sensitivity test point analysis for DC\_3A-8A\_n28A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0598 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223689**.

**R5-223689 Introduction of reference sensitivity test point analysis for DC\_3A-8A\_n28A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0598 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222298)

**Decision:** The document was **agreed**.

**R5-222299 Introduction of reference sensitivity test point analysis for DC\_7A-8A\_n3A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0599 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223690**.

**R5-223690 Introduction of reference sensitivity test point analysis for DC\_7A-8A\_n3A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0599 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222299)

**Decision:** The document was **agreed**.

**R5-222300 Introduction of reference sensitivity test point analysis for DC\_7A-20A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0600 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223691**.

**R5-223691 Introduction of reference sensitivity test point analysis for DC\_7A-20A\_n8A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0600 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222300)

**Decision:** The document was **agreed**.

**R5-222301 Introduction of reference sensitivity test point analysis for DC\_7A-28A\_n5A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0601 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223692**.

**R5-223692 Introduction of reference sensitivity test point analysis for DC\_7A-28A\_n5A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0601 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222301)

**Decision:** The document was **agreed**.

**R5-222476 Addtion of refsence sensitivity test point analysis for FR1 EN-DC**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0605 Cat: F (Rel-17)  
  
 Source: KDDI Corporation*

**Discussion:**

the fallback configurations of the EN-DC combinations in this CR haven't been analyzed, comments from Ericsson.

**Decision:** The document was **withdrawn**.

**R5-222734 Update TpAnalysisSpur\_DC\_14A\_n2A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0615 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

R5-222747

**Decision:** The document was **agreed**.

**R5-222735 Update TpAnalysisSpur\_DC\_14A\_n66A**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0616 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

R5-222747

**Decision:** The document was **agreed**.

**R5-223050 Update of test points analysis per CA configuration Table**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0626 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

##### 5.3.3.11 Discussion Papers, Work Plan, TC lists

#### 5.3.4 Enhancements on Full-Dimension (FD) MIMO for LTE (UID - 830085) LTE\_eFDMIMO-UEConTest

##### 5.3.4.1 TS 36.508

##### 5.3.4.2 TS 36.521-1

##### 5.3.4.3 TS 36.521-2

##### 5.3.4.4 TR 36.904 (E-UTRAN Radio Reception TT analyses)

##### 5.3.4.5 TR 36.905 (E-UTRAN Test Points Radio Transmission and Reception )

##### 5.3.4.6 Discussion Papers, Work Plan, TC lists

#### 5.3.5 New Rel-16 NR bands and extension of existing NR bands (UID - 850062) NR\_bands\_BW\_R16-UEConTest

**R5-222674 General updates of clause 5 for R16 new CBW configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1688 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **withdrawn**.

##### 5.3.5.1 TS 38.508-1

###### 5.3.5.1.1 Test frequencies (Clause 4.3.1)

###### 5.3.5.1.2 Test environment for RF (Clauses 5)

###### 5.3.5.1.3 Test environment for RRM (Clause 7)

###### 5.3.5.1.4 Other clauses, Annexes

##### 5.3.5.2 TS 38.508-2

##### 5.3.5.3 TS 38.521-1

###### 5.3.5.3.1 Tx Requirements (Clause 6)

**R5-223218 Update test configuration table for NS\_27 of A-MPR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1750 Cat: F (Rel-17)  
  
 Source: Samsung, Google*

**Discussion:**

wrong AI & WIC.

r2

**Decision:** The document was **revised to R5-223693**.

**R5-223693 Update test configuration table for NS\_27 of A-MPR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1750 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung, Google*

(Replaces R5-223218)

**Decision:** The document was **agreed**.

###### 5.3.5.3.2 Rx Requirements (Clause 7)

**R5-222450 Correction of REFSENS test case for n66 and CBW 25 and 30 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1669 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222684 Update of CBW 70MHz into refsens TC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1694 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223694**.

**R5-223694 Update of CBW 70MHz into refsens TC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1694 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom*

(Replaces R5-222684)

**Decision:** The document was **agreed**.

###### 5.3.5.3.3 Clauses 1-5, Annexes

**R5-222677 General updates of clause 5 for R16 new CBW configurations**

*Type: CR For: Agreement  
 38.521-1 v16.8.0 CR-1691 Cat: F (Rel-16)  
  
 Source: China Unicom*

**Decision:** The document was **withdrawn**.

**R5-222681 General updates of clause 5 for R16 new CBW configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1692 Cat: F (Rel-17)  
  
 Source: China Unicom, Orange*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223695**.

**R5-223695 General updates of clause 5 for R16 new CBW configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1692 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom, Orange*

(Replaces R5-222681)

**Decision:** The document was **agreed**.

##### 5.3.5.4 TS 38.521-2

###### 5.3.5.4.1 Tx Requirements (Clause 6)

###### 5.3.5.4.2 Rx Requirements (Clause 7)

###### 5.3.5.4.3 Clauses 1-5, Annexes

##### 5.3.5.5 TS 38.521-4

###### 5.3.5.5.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.5.5.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.5.5.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.5.5.4 Clauses 1-4, Annexes

##### 5.3.5.6 TS 38.533

##### 5.3.5.7 TS 37.571-1

##### 5.3.5.8 TR 38.903 ((NR MU & TT analyses)

##### 5.3.5.9 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-223216 Update\_TP\_analysis for AMPR NS\_27**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0628 Cat: F (Rel-17)  
  
 Source: Samsung*

**Abstract:**

associated with test case CR R5-223218r1

**Discussion:**

was wrong AI & WIC.

r3

**Decision:** The document was **revised to R5-223696**.

**R5-223696 Update\_TP\_analysis for AMPR NS\_27**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0628 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung*

(Replaces R5-223216)

**Decision:** The document was **agreed**.

##### 5.3.5.10 Discussion Papers, Work Plan, TC lists

**R5-222752 Discussion on n48 NS-27 A-MPR test configuration**

*Type: discussion For: Endorsement  
 Source: Samsung*

**Abstract:**

associated with CR R5-223216r1 (TP analysis) and CR R5-223218r1 (test case)

**Discussion:**

wrong AI & WIC.

r3

The proposal 1 needs to be 'endorsed'.

noted with proposal1 endorsed and implemented in CR R5-223216 (TP analysis), R5-223218 (Test Case)

**Decision:** The document was **revised to R5-223623**.

**R5-223623 Discussion on n48 NS-27 A-MPR test configuration**

*Type: discussion For: Endorsement  
 Source: Samsung*

(Replaces R5-222752)

**Decision:** The document was **noted**.

#### 5.3.6 RF requirements for NR frequency range 1 (FR1) (UID-870061) NR\_RF\_FR1-UEConTest

##### 5.3.6.1 TS 38.508-1

**R5-222330 Editorial correction of test frequencies for CA\_n77(2A)**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2304 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Editorial

**Discussion:**

Merged into R5-223226r1

**Decision:** The document was **withdrawn**.

##### 5.3.6.2 TS 38.508-2

**R5-223184 Addition of Condition for FR1 DL Interruptions test cases applicability**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0342 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Applicability condition for DL interruptions test cases

**Discussion:**

CR coversheet:

Removal of redundant condition for FR1 DL Interruptions test cases applicability"

reissued as R5-223301 because of title change.

**Decision:** The document was **withdrawn**.

**R5-223301 Removal of redundant condition for FR1 DL Interruptions test cases applicability**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0350 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

reissued from R5-223184 because of title change.

**Decision:** The document was **agreed**.

##### 5.3.6.3 TS 38.521-1

###### 5.3.6.3.1 Tx Requirements (Clause 6)

**R5-222428 Corrections in message exceptions and test points for FR1 test case 6.3A.4.1.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1666 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

Updated p0-NominalWithGrant for Test Point 2 to ensure MPR will not affect. Test requirements updated accordingly. Comments from Ericsson.

r1

**Decision:** The document was **revised to R5-223697**.

**R5-223697 Corrections in message exceptions and test points for FR1 test case 6.3A.4.1.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1666 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222428)

**Decision:** The document was **agreed**.

**R5-222616 Addition of UE co-existence requirements for band n18 to TS 38.521-1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1677 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **withdrawn**.

**R5-222655 Addition of UE co-existence requirements for band n18 to TS 38.521-1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1678 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC., KDDI Corporation*

**Decision:** The document was **agreed**.

**R5-222807 Update 6.5.3.2 Spur-emiss R16\_17 for UE co-exist**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1702 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Discussion:**

tab in title

r2

**Decision:** The document was **revised to R5-223698**.

**R5-223698 Update 6.5.3.2 Spur-emiss R16\_17 for UE co-exist**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1702 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-222807)

**Decision:** The document was **agreed**.

**R5-223125 Correction to NS\_27 in test case AMPR for MIMO**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1732 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Correcting several RB allocations to align with single-carrier test case as in R5-223218r2

r1

**Decision:** The document was **revised to R5-223699**.

**R5-223699 Correction to NS\_27 in test case AMPR for MIMO**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1732 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223125)

**Decision:** The document was **agreed**.

###### 5.3.6.3.2 Rx Requirements (Clause 7)

**R5-222333 Test procedure correction in FR1 CA test case 7.6A.4.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1651 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223700**.

**R5-223700 Test procedure correction in FR1 CA test case 7.6A.4.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1651 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222333)

**Decision:** The document was **agreed**.

###### 5.3.6.3.3 Clauses 1-5, Annexes

##### 5.3.6.4 TS 38.521-3

###### 5.3.6.4.1 Tx Requirements (Clause 6)

**R5-223061 Addition of 6.5B.3.3.1 requirements for NR inter-band EN-DC configurations including n1**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1387 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **agreed**.

###### 5.3.6.4.2 Rx Requirements (Clause 7)

###### 5.3.6.4.3 Clauses 1-5, Annexes

##### 5.3.6.5 TS 38.522

**R5-223185 Removal of redundant condition for FR1 DL Interruptions test cases applicability**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0184 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Applicability correction of DL interruptions test cases

**Discussion:**

reissued as R5-223302 because of title change

**Decision:** The document was **withdrawn**.

**R5-223302 Correction of FR1 DL Interruptions test cases applicability**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0189 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

reissued from R5-223185 because of title change

**Discussion:**

r2

**Decision:** The document was **revised to R5-223701**.

**R5-223701 Correction of FR1 DL Interruptions test cases applicability**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0189 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223302)

**Decision:** The document was **agreed**.

##### 5.3.6.6 TS 38.533

**R5-222882 Editorial update to minimum requirement in 6.5.7.0**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1803 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-223172 Correction of UL switching test case 6.5.7.1 including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1832 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Discussion:**

r2

**Decision:** The document was **revised to R5-223878**.

**R5-223878 Correction of UL switching test case 6.5.7.1 including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1832 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223172)

**Decision:** The document was **agreed**.

**R5-223173 Correction of UL switching test case 6.5.7.2 including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1833 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Discussion:**

r2

**Decision:** The document was **revised to R5-223879**.

**R5-223879 Correction of UL switching test case 6.5.7.2 including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1833 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223173)

**Decision:** The document was **agreed**.

**R5-223174 Addition of Test Tolerance for UL switching test cases in Annex F of TS 38.533**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1834 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TT correction in Annex F

**Discussion:**

r1

**Decision:** The document was **revised to R5-223876**.

**R5-223876 Addition of Test Tolerance for UL switching test cases in Annex F of TS 38.533**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1834 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223174)

**Decision:** The document was **withdrawn**.

##### 5.3.6.7 TR 38.903 (NR MU & TT analyses)

**R5-223171 Test Tolerances for DL Interruptions at switching between two uplink carriers test cases**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0319 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test tolerance analysis, RAN4 dependant

**Discussion:**

r1

**Decision:** The document was **revised to R5-223877**.

**R5-223877 Test Tolerances for DL Interruptions at switching between two uplink carriers test cases**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0319 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223171)

**Discussion:**

withdrawn.

revised because of wrong file.

**Decision:** The document was **revised to R5-223887**.

**R5-223887 Test Tolerances for DL Interruptions at switching between two uplink carriers test cases**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0319 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223877)

**Decision:** The document was **withdrawn**.

##### 5.3.6.8 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222429 Test point analysis update for FR1 test case 6.3A.4.1.1**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0603 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

##### 5.3.6.9 TS 36.521-3

##### 5.3.6.10 TR 36.903 (E-UTRAN RRM TT analyses)

##### 5.3.6.11 Discussion Papers, Work Plan, TC lists

#### 5.3.7 Even Further Mobility Enhancement for E-UTRAN (UID – 880066) LTE\_feMob-UEConTest

##### 5.3.7.1 TS 36.508

##### 5.3.7.2 TS 36.521-2

##### 5.3.7.3 TS 36.521-3

**R5-222976 Update of feMob test case 5.1.42**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2621 Cat: F (Rel-16)  
  
 Source: ZTE, Tejet, SRTC*

**Decision:** The document was **agreed**.

**R5-222977 Update of feMob test case 5.1.43**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2622 Cat: F (Rel-16)  
  
 Source: ZTE, Tejet, SRTC*

**Decision:** The document was **agreed**.

**R5-222978 Update of feMob test case 5.1.44**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2623 Cat: F (Rel-16)  
  
 Source: ZTE, Tejet, SRTC*

**Decision:** The document was **agreed**.

**R5-222979 Update of feMob test case 5.1.45**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2624 Cat: F (Rel-16)  
  
 Source: ZTE, SRTC, Tejet*

**Decision:** The document was **agreed**.

**R5-222980 Update of feMob test case 5.1.46**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2625 Cat: F (Rel-16)  
  
 Source: ZTE, SRTC, Tejet*

**Decision:** The document was **agreed**.

**R5-222981 Update of feMob test case 5.1.53**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2626 Cat: F (Rel-16)  
  
 Source: ZTE, SRTC, Tejet*

**Decision:** The document was **agreed**.

**R5-222982 Update of feMob test case 5.1.54**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2627 Cat: F (Rel-16)  
  
 Source: ZTE, SRTC, Tejet*

**Decision:** The document was **agreed**.

**R5-222983 Update of feMob test case 5.1.55**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2628 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **agreed**.

**R5-222984 Update of feMob test case 5.1.56**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2629 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **agreed**.

**R5-222985 Update of feMob test case 5.1.57**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2630 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **agreed**.

**R5-222986 Update of feMob test case 5.1.58**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2631 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **agreed**.

**R5-222987 Update Annex E and F for feMob test cases**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0983 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

wrong spec! shall be -3. reissued as R5-223294 because of wrong spec.

r1 discarded!!

**Decision:** The document was **withdrawn**.

**R5-223294 Update Annex E and F for feMob test cases**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2646 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

reissued from R5-222987 because of wrong spec.

**Decision:** The document was **agreed**.

**R5-223177 Correction of Intra frequency conditional handover Test Case 5.1.47 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2632 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Decision:** The document was **agreed**.

**R5-223178 Correction of Intra frequency conditional handover Test Case 5.1.48 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2633 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Decision:** The document was **agreed**.

**R5-223179 Correction of Inter frequency conditional handover Test Case 5.1.49 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2634 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Decision:** The document was **agreed**.

**R5-223180 Correction of Inter frequency conditional handover Test Case 5.1.50 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2635 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Discussion:**

r1

**Decision:** The document was **revised to R5-223702**.

**R5-223702 Correction of Inter frequency conditional handover Test Case 5.1.50 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2635 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223180)

**Decision:** The document was **agreed**.

**R5-223181 Correction of Inter frequency conditional handover Test Case 5.1.51 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2636 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Decision:** The document was **agreed**.

**R5-223182 Correction of Inter frequency conditional handover Test Case 5.1.52 including Test Tolerance**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2637 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test Case correction including TT

**Decision:** The document was **agreed**.

**R5-223183 Addition of LTE RRM CHO test cases Test Tolerance into Annex F**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2638 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Cell confiduration for CHO test cases

**Decision:** The document was **agreed**.

##### 5.3.7.4 TR 36.903 (E-UTRAN RRM TT analyses)

**R5-223175 Test Tolerances for E-UTRAN intra-frequency Conditional Handover test cases**

*Type: CR For: Agreement  
 36.903 v15.5.0 CR-0445 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

LTE Test Tolerance analysis for rel-16 Test Case - triggers spec upgrade.

**Decision:** The document was **agreed**.

**R5-223176 Test Tolerances for E-UTRAN inter-frequency Conditional Handover test cases**

*Type: CR For: Agreement  
 36.903 v15.5.0 CR-0446 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

LTE Test Tolerance analysis for rel-16 Test Case - triggers spec upgrade.

**Decision:** The document was **agreed**.

##### 5.3.7.5 Discussion Papers, Work Plan, TC lists

#### 5.3.8 NR Mobility Enhancements (UID-880068) NR\_Mob\_enh-UEConTest

##### 5.3.8.1 TS 38.508-1

##### 5.3.8.2 TS 38.508-2

##### 5.3.8.3 TS 38.522

##### 5.3.8.4 TS 38.533

##### 5.3.8.5 TR 38.903 (NR MU & TT analyses)

##### 5.3.8.6 Discussion Papers, Work Plan, TC lists

#### 5.3.9 5G V2X with NR sidelink (UID-880069) 5G\_V2X\_NRSL\_eV2XARC-UEConTest

##### 5.3.9.1 TS 38.508-1

###### 5.3.9.1.1 Test frequencies (Clause 4.3.1)

###### 5.3.9.1.2 Test environment for RF (Clauses 5)

**R5-222617 Addition of default message contents for NR SL Demod**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2331 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

###### 5.3.9.1.3 Test environment for RRM (Clause 7)

###### 5.3.9.1.4 Other clauses, Annexes

##### 5.3.9.2 TS 38.508-2

**R5-222618 Addition of PICS for NR SL Demod TCs**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0324 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

##### 5.3.9.3 TS 38.509

##### 5.3.9.4 TS 38.521-1

###### 5.3.9.4.1 Tx Requirements (Clause 6)

**R5-222204 Moving test requirement of 6.3E.1.1D to the correct section and correction of style of some table notes**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1621 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222205 Correction of clause style in 6.2E.2.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1622 Cat: F (Rel-17)  
  
 Source: CAICT*

**Abstract:**

Editorial

**Decision:** The document was **agreed**.

**R5-222206 Removing FFS for the test configuration table in 6.2E.1.1.4.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1623 Cat: F (Rel-17)  
  
 Source: CAICT*

**Discussion:**

"R&S: request to delete 6.2E.1.1.4 and the rest of the test case and to move “since there is no configuration satisfying MPR=0dB requirements in RAN4” to the note in the test applicability section

CAICT: there are quite a few test cases that have test case details specified but with no test points, will consider doing global revision for all the 38.521-x specs at next meeting. this CR just to remove the incorrect FFS

R&S: fine with this approach

5/17 QC: same view as R&S. Test case or sub test case without any test point defined should be removed from spec. will prepare a discussion paper for next meeting on this subject"

**Decision:** The document was **agreed**.

###### 5.3.9.4.2 Rx Requirements (Clause 7)

###### 5.3.9.4.3 Clauses 1-5, Annexes

##### 5.3.9.5 TS 38.521-3

###### 5.3.9.5.1 Tx Requirements (Clause 6)

**R5-222194 Correction of reference section numbers in 6.4E and title of 6.4E.2.1.2**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1337 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222421 Addition of 6.5E.1 Occupied bandwidth for V2X**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1355 Cat: F (Rel-17)  
  
 Source: TTA*

**Decision:** The document was **agreed**.

**R5-222422 Addition of 6.5E.2 Out of band emission for V2X**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1356 Cat: F (Rel-17)  
  
 Source: TTA*

**Decision:** The document was **agreed**.

**R5-222883 Addition of 6.4E.2.2 Carrier leakage for V2X**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1385 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223703**.

**R5-223703 Addition of 6.4E.2.2 Carrier leakage for V2X**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1385 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222883)

**Decision:** The document was **agreed**.

**R5-222884 Addition of 6.4E.2.3 In-band emissions for V2X**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1386 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

###### 5.3.9.5.2 Rx Requirements (Clause 7)

###### 5.3.9.5.3 Clauses 1-5, Annexes

##### 5.3.9.6 TS 38.521-4

###### 5.3.9.6.1 V2X Requirements (Clause 11)

**R5-222619 Addition of NR SL Demod TC 11.1.2 - PSSCH**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0525 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222620 Addition of NR SL Demod TC 11.1.3 - PSCCH**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0526 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222621 Addition of NR SL Demod TC 11.1.4 - PSBCH**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0527 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222622 Addition of NR SL Demod TC 11.1.5 - PSFCH**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0528 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222623 Addition of NR SL Demod TC 11.1.6 - imbalance**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0529 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222624 Addition of NR SL Demod TC 11.1.7 - soft buffer**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0530 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222625 Addition of NR SL Demod TC 11.1.8 - PSCCH capability**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0531 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222626 Addition of NR SL Demod TC 11.1.9 - PSFCH capability**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0532 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223704**.

**R5-223704 Addition of NR SL Demod TC 11.1.9 - PSFCH capability**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0532 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222626)

**Decision:** The document was **agreed**.

**R5-222627 Correction to references for NR SL Demod**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0533 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222628 Addition of NR SL Demod RMCs in Annex A**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0534 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222629 Addition of test tolerance for NR SL Demod in Annex F**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0535 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222630 Addition of test method for NR SL Demod in Annex G**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0536 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

###### 5.3.9.6.2 Clauses 1-4, Annexes

##### 5.3.9.7 TS 38.522

**R5-222631 Addition of test applicability for NR SL Demod TCs**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0164 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222632 Addition of test applicability for NR SL RRM TCs**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0165 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

##### 5.3.9.8 TS 38.533

**R5-222633 Correction to NR SL RRM TCs**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1791 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

##### 5.3.9.9 TS 36.509

##### 5.3.9.10 TR 38.903 (NR MU & TT analyses)

##### 5.3.9.11 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222187 Correction of Number of test points for V2X SEM and V2X ACLR in 38.521-1**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0588 Cat: F (Rel-17)  
  
 Source: CAICT*

**Abstract:**

Has already been applied in 38.521-1.No associated test case CR.

**Decision:** The document was **agreed**.

##### 5.3.9.12 Discussion Papers, Work Plan, TC lists

#### 5.3.10 Enhancements on MIMO for NR (UID-880070) NR\_eMIMO-UEConTest

##### 5.3.10.1 TS 38.508-1

##### 5.3.10.2 TS 38.508-2

##### 5.3.10.3 TS 38.521-1

###### 5.3.10.3.1 Tx Requirements (Clause 6)

**R5-222873 Aligning test case Occupied bandwidth for UL MIMO with the latest work plan version**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1707 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222885 Addition of FR2 6.2D.3 for ULFPTx**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0738 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222886

**Decision:** The document was **withdrawn**.

**R5-222939 Aligning test case 6.5D.2.4.1 NR ACLR for UL MIMO with the latest work plan version**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1720 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222955 Aligning test case 6.5D.2.4.2 UTRA ACLR for UL MIMO with the latest work plan version**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1722 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223016 Addition of spectrum emission mask testing for UL MIMO with ULFPTx**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1726 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-223017

**Discussion:**

r1

**Decision:** The document was **revised to R5-223705**.

**R5-223705 Addition of spectrum emission mask testing for UL MIMO with ULFPTx**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1726 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223016)

**Decision:** The document was **agreed**.

###### 5.3.10.3.2 Rx Requirements (Clause 7)

###### 5.3.10.3.3 Clauses 1-5, Annexes

**R5-222481 Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1671 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-223018 Update of Annex F for UL MIMO test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1727 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

##### 5.3.10.4 TS 38.521-2

###### 5.3.10.4.1 Tx Requirements (Clause 6)

**R5-223122 Addition of FR2 6.2D.3 for ULFPTx**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0749 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222886

**Discussion:**

R&S: Is there another CR adding this TC to the MU and TT Tables in Annex F?

HW: The Annex F update is in the same CR R5-223122

**Decision:** The document was **agreed**.

###### 5.3.10.4.2 Rx Requirements (Clause 7)

###### 5.3.10.4.3 Clauses 1-5, Annexes

**R5-222482 Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0729 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

##### 5.3.10.5 TS 38.521-3

###### 5.3.10.5.1 Tx Requirements (Clause 6)

###### 5.3.10.5.2 Rx Requirements (Clause 7)

###### 5.3.10.5.3 Clauses 1-5, Annexes

##### 5.3.10.6 TS 38.521-4

###### 5.3.10.6.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.10.6.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.10.6.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.10.6.4 Clauses 1-4, Annexes

##### 5.3.10.7 TS 38.522

**R5-222914 Removing test case 6.5D.1\_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.522**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0172 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223013 Addition of test applicability for eMIMO test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0178 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223706**.

**R5-223706 Addition of test applicability for eMIMO test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0178 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223013)

**Decision:** The document was **agreed**.

##### 5.3.10.8 TS 38.533

**R5-222719 Completion 4.7.7.1 and 6.7.9.1 including TT anaysis results**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1799 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

filename +

r1

TT analysis has wrongly used the RSRP value for SINR value, will bring contributions back on next RAN5 meeting.

w/d

**Decision:** The document was **revised to R5-223610**.

**R5-223610 Completion 4.7.7.1 and 6.7.9.1 including TT anaysis results**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1799 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222719)

**Decision:** The document was **withdrawn**.

**R5-222721 Completion 4.7.7.2 and 6.7.9.2 including TT anaysis results**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1800 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

filename +

r1

TT analysis has wrongly used the RSRP value for SINR value, will bring contributions back on next RAN5 meeting.

w/d

**Decision:** The document was **revised to R5-223611**.

**R5-223611 Completion 4.7.7.2 and 6.7.9.2 including TT anaysis results**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1800 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222721)

**Decision:** The document was **withdrawn**.

**R5-222723 Completion 4.7.7.3 and 6.7.9.3 including TT anaysis results**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1801 Cat: F (Rel-17)  
  
 Source: Sporton*

**Discussion:**

filename +

r1

TT analysis has wrongly used the RSRP value for SINR value, will bring contributions back on next RAN5 meeting.

w/d

**Decision:** The document was **revised to R5-223612**.

**R5-223612 Completion 4.7.7.3 and 6.7.9.3 including TT anaysis results**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1801 rev 1 Cat: F (Rel-17)  
  
 Source: Sporton*

(Replaces R5-222723)

**Decision:** The document was **withdrawn**.

**R5-222724 Update to eMIMO test cases 4.5.5.6 and 4.5.5.7**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1802 Cat: F (Rel-17)  
  
 Source: Sporton, Huawei, HiSilicon*

**Abstract:**

Depending on R4-2208920

**Discussion:**

cover Rel!

Reissued as R5-223305 because of title change.

**Decision:** The document was **withdrawn**.

**R5-223305 Update to eMIMO test cases 4.5.5.5 and 4.5.5.6**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1837 Cat: F (Rel-17)  
  
 Source: Sporton, Huawei, HiSilicon*

**Abstract:**

Reissued from R5-222724 because of title change.

**Discussion:**

RAN4 draft CR R4-2210979 is endorsed

**Decision:** The document was **agreed**.

**R5-222887 Update to minimum requirements for BFR**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1804 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-222888 Addition of eMIMO test case 6.5.5.5**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1805 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

RAN4 dependency: R4-2208920

**Discussion:**

Tdoc #

Ericsson commented offline.

r2

RAN4 draft CR R4-2210979 is endorsed

**Decision:** The document was **revised to R5-223880**.

**R5-223880 Addition of eMIMO test case 6.5.5.5**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1805 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222888)

**Decision:** The document was **agreed**.

**R5-222889 Addition of eMIMO test case 6.5.5.6**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1806 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

RAN4 dependency:R4-2208920

**Discussion:**

Ericsson commented offline.

r2

RAN4 draft CR R4-2210979 is endorsed

**Decision:** The document was **revised to R5-223881**.

**R5-223881 Addition of eMIMO test case 6.5.5.6**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1806 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222889)

**Decision:** The document was **agreed**.

**R5-222890 Update to FR2 SCell BFD test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1807 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

RAN4 dependency: R4-2208920

**Discussion:**

RAN4 draft CR R4-2210979 is endorsed

**Decision:** The document was **agreed**.

**R5-222998 Update of 4.6.7 EN-DC FR1 L1-SINR measurement procedure**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1821 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-222999 Update of 6.6.8 NR SA FR1 L1-SINR measurement procedure**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1822 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-223000 Addition of minimum requirements for EN-DC FR2 L1-SINR measurement for beam reporting**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1823 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223707**.

**R5-223707 Addition of minimum requirements for EN-DC FR2 L1-SINR measurement for beam reporting**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1823 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223000)

**Decision:** The document was **agreed**.

**R5-223001 Addition of 5.6.6.1 EN-DC FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1824 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TT analysis in R5-223008, RAN4 CR dependency R4-22xxxx

**Discussion:**

RAN4 draftCR endorsed.

**Decision:** The document was **agreed**.

**R5-223002 Addition of 5.6.6.2 EN-DC FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1825 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TT analysis in R5-223009, RAN4 CR dependency R4-22xxxx

**Discussion:**

RAN4 draftCR endorsed.

**Decision:** The document was **agreed**.

**R5-223003 Addition of 5.6.6.3 EN-DC FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1826 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TT analysis in R5-223010

**Discussion:**

r1

**Decision:** The document was **revised to R5-223605**.

**R5-223605 Addition of 5.6.6.3 EN-DC FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1826 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223003)

**Decision:** The document was **agreed**.

**R5-223004 Addition of 7.6.6.1 NR SA FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1827 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TT analysis in R5-223008

**Decision:** The document was **agreed**.

**R5-223005 Addition of 7.6.6.2 NR SA FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1828 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TT analysis in R5-223011, RAN4 CR dependency R4-22xxxx

**Discussion:**

r1

RAN4 draftCR endorsed.

**Decision:** The document was **revised to R5-223882**.

**R5-223882 Addition of 7.6.6.2 NR SA FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1828 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223005)

**Decision:** The document was **agreed**.

**R5-223006 Addition of 7.6.6.3 NR SA FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1829 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TT analysis in R5-223012

**Discussion:**

r1

**Decision:** The document was **revised to R5-223606**.

**R5-223606 Addition of 7.6.6.3 NR SA FR2 L1-SINR measurement including Test Tolerance**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1829 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223006)

**Decision:** The document was **agreed**.

**R5-223007 Addition of Annex E and Annex F for FR2 L1-SINR measurement**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1830 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

RAN4 draftCR endorsed.

**Decision:** The document was **agreed**.

##### 5.3.10.9 TR 38.903 (NR MU & TT analyses)

**R5-222718 Addition of test tolerance analysis for 4.7.7.1 and 6.7.9.1 EN-DC FR1 L1-SINR absolute accuracy tests**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0310 Cat: F (Rel-16)  
  
 Source: Sporton*

**Discussion:**

TT analysis has wrongly used the RSRP value for SINR value, will bring contributions back on next RAN5 meeting.

**Decision:** The document was **withdrawn**.

**R5-222720 Addition of test tolerance analysis for 4.7.7.2 and 6.7.9.2 FR1 L1-SINR absolute accuracy tests**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0311 Cat: F (Rel-16)  
  
 Source: Sporton*

**Discussion:**

TT analysis has wrongly used the RSRP value for SINR value, will bring contributions back on next RAN5 meeting.

**Decision:** The document was **withdrawn**.

**R5-222722 Addition of test tolerance analysis for 4.7.7.3 and 6.7.9.3 EN-DC FR1 L1-SINR absolute accuracy tests**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0312 Cat: F (Rel-16)  
  
 Source: Sporton*

**Discussion:**

TT analysis has wrongly used the RSRP value for SINR value, will bring contributions back on next RAN5 meeting.

**Decision:** The document was **withdrawn**.

**R5-223008 Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0313 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223001, R5-223004

**Discussion:**

cover Rel-17

r2

RAN4 draftCR endorsed.

**Decision:** The document was **revised to R5-223883**.

**R5-223883 Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0313 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223008)

**Decision:** The document was **agreed**.

**R5-223009 Addition of test tolerance analysis for 5.6.6.2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0314 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223002

**Discussion:**

cover Rel-17

r1

RAN4 draftCR endorsed.

**Decision:** The document was **revised to R5-223884**.

**R5-223884 Addition of test tolerance analysis for 5.6.6.2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0314 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223009)

**Decision:** The document was **agreed**.

**R5-223010 Addition of test tolerance analysis for 5.6.6.3**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0315 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223003

**Discussion:**

cover Rel-17

r3

**Decision:** The document was **revised to R5-223708**.

**R5-223708 Addition of test tolerance analysis for 5.6.6.3**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0315 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223010)

**Decision:** The document was **agreed**.

**R5-223011 Addition of test tolerance analysis for 7.6.6.2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0316 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223005

**Discussion:**

cover Rel-17

r1

RAN4 draftCR endorsed.

**Decision:** The document was **revised to R5-223885**.

**R5-223885 Addition of test tolerance analysis for 7.6.6.2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0316 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223011)

**Decision:** The document was **agreed**.

**R5-223012 Addition of test tolerance analysis for 7.6.6.3**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0317 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223006

**Discussion:**

cover Rel-17

r1

**Decision:** The document was **revised to R5-223709**.

**R5-223709 Addition of test tolerance analysis for 7.6.6.3**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0317 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-223012)

**Decision:** The document was **agreed**.

##### 5.3.10.10 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222886 Update to TP analysis of A-MPR to add ULFPTx**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0619 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223122

**Decision:** The document was **agreed**.

**R5-222915 Removing test case 6.5D.1\_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.905**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0621 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223017 Update of test point analysis for MPR, SEM and NR ACLR for UL MIMO**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0625 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-223016

**Decision:** The document was **agreed**.

##### 5.3.10.11 Discussion Papers, Work Plan, TC lists

#### 5.3.11 UE Power Saving in NR (UID-880071) NR\_UE\_pow\_sav-UEConTest

##### 5.3.11.1 TS 38.508-1

##### 5.3.11.2 TS 38.508-2

##### 5.3.11.3 TS 38.521-4

###### 5.3.11.3.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

**R5-222499 Correction to coreset RB in 5.3.2.1.3 and 5.3.3.1.3**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0510 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

###### 5.3.11.3.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.11.3.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.11.3.4 Clauses 1-4, Annexes

##### 5.3.11.4 TS 38.522

##### 5.3.11.5 TS 38.533

##### 5.3.11.6 TR 38.903

##### 5.3.11.7 Discussion Papers, Work Plan, TC lists

#### 5.3.12 Cross Link Interference (CLI) handling for NR (UID-890047) NR\_CLI-UEConTest

##### 5.3.12.1 TS 38.508-1

##### 5.3.12.2 TS 38.508-2

**R5-223269 Addition of PICS for CLI**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0349 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

##### 5.3.12.3 TS 38.522

##### 5.3.12.4 TS 38.533

**R5-222559 Introduction of EN-DC FR2 SRS-RSRP measurement in non-DRX test case 5.6.4.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1786 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223710**.

**R5-223710 Introduction of EN-DC FR2 SRS-RSRP measurement in non-DRX test case 5.6.4.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1786 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

(Replaces R5-222559)

**Decision:** The document was **agreed**.

**R5-222560 Introduction of EN-DC FR2 SRS-RSRP measurement accuracy test case 5.7.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1787 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223711**.

**R5-223711 Introduction of EN-DC FR2 SRS-RSRP measurement accuracy test case 5.7.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1787 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

(Replaces R5-222560)

**Decision:** The document was **agreed**.

**R5-222689 Introduction of NR SA FR2 SRS-RSRP measurement in non-DRX test case 7.6.4.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1797 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223712**.

**R5-223712 Introduction of NR SA FR2 SRS-RSRP measurement in non-DRX test case 7.6.4.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1797 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

(Replaces R5-222689)

**Decision:** The document was **agreed**.

**R5-222706 Introduction of NR SA FR2 SRS-RSRP measurement accuracy test case 7.7.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1798 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223713**.

**R5-223713 Introduction of NR SA FR2 SRS-RSRP measurement accuracy test case 7.7.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1798 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Austria RFFE GmbH*

(Replaces R5-222706)

**Decision:** The document was **agreed**.

##### 5.3.12.5 TR 38.903 (NR MU & TT analyses)

##### 5.3.12.6 Discussion Papers, Work Plan, TC lists

#### 5.3.13 NR performance requirement enhancement (UID-890048) NR\_perf\_enh-UEConTest

##### 5.3.13.1 TS 38.508-1

**R5-222917 Connection diagram for 1x2 nDLCA Demodulation and CSI cases**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2372 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **agreed**.

##### 5.3.13.2 TS 38.508-2

##### 5.3.13.3 TS 38.521-4

###### 5.3.13.3.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

**R5-222489 Addition of new test case 5.2A.3.2**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0507 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Discussion:**

conflict with R5-222583.

**Decision:** The document was **withdrawn**.

**R5-222497 Correction to PDCCH parameters in 5.2.2.1.4 and 5.2.2.2.4**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0508 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223714**.

**R5-223714 Correction to PDCCH parameters in 5.2.2.1.4 and 5.2.2.2.4**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0508 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222497)

**Decision:** The document was **agreed**.

**R5-222500 Correction to CSI-Report periodicity and offset in 6.2A.3.1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0511 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Abstract:**

depends on the RAN4 draftCR R4-2207652

**Discussion:**

conflict with R5-222586.

r2

**Decision:** The document was **revised to R5-223871**.

**R5-223871 Correction to CSI-Report periodicity and offset in 6.2A.3.1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0511 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222500)

**Discussion:**

NOT uploaded past meeting deadline

**Decision:** The document was **agreed**.

**R5-222582 Update to FR1 CA normal PDSCH test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0516 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223715**.

**R5-223715 Update to FR1 CA normal PDSCH test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0516 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222582)

**Decision:** The document was **agreed**.

**R5-222583 Update to FR1 CA power imbalance test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0517 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223716**.

**R5-223716 Update to FR1 CA power imbalance test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0517 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222583)

**Decision:** The document was **agreed**.

**R5-222585 Update to FR1 CA SDR test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0519 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **agreed**.

**R5-222586 Update to FR1 CA CQI reporting test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0520 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223717**.

**R5-223717 Update to FR1 CA CQI reporting test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0520 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222586)

**Decision:** The document was **agreed**.

**R5-223049 Addition of test case 6.3.3.2.4, 4Rx TDD FR1 Single PMI with 32Tx Type1 - SinglePanel codebook for both SA and NSA**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0549 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223088 Correction to test case 6.3.2.2.4 and 6.3.3.2.3**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0550 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**R5-223107 Correction in performance enhancement test cases 6.3.2.2.3, 6.3.2.2.4 and 6.3.3.2.3**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0551 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

was wrong 3GU Rel.

r1?

**Decision:** The document was **agreed**.

**R5-223119 Solving editor notes for Type I PMI test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0552 Cat: F (Rel-16)  
  
 Source: China Telecom*

**Decision:** The document was **agreed**.

**R5-223120 Solving editor notes for Type II PMI test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0553 Cat: F (Rel-16)  
  
 Source: China Telecom*

**Decision:** The document was **agreed**.

###### 5.3.13.3.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

**R5-222584 Update to FR2 CA normal PDSCH test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0518 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223718**.

**R5-223718 Update to FR2 CA normal PDSCH test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0518 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222584)

**Decision:** The document was **agreed**.

**R5-222587 Introduction of FR2 CA SDR test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0521 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223719**.

**R5-223719 Introduction of FR2 CA SDR test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0521 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222587)

**Decision:** The document was **agreed**.

**R5-223275 Update of FR2 CQI CA test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0555 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

###### 5.3.13.3.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.13.3.4 Clauses 1-4, Annexes

**R5-223153 Solve duplicated information in Annex**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0554 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 5.3.13.4 TS 38.522

**R5-222581 Applicability update for NR perf enh WI test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0163 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223720**.

**R5-223720 Applicability update for NR perf enh WI test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0163 rev 1 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222581)

**Decision:** The document was **agreed**.

**R5-223123 Test case 6.3.2.2.3, 6.3.2.2.4 and 6.3.3.2.3 in 38.522**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0181 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 5.3.13.5 TR 38.903 (NR MU & TT analyses)

##### 5.3.13.6 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.13.7 Discussion Papers, Work Plan, TC lists

#### 5.3.14 NR support for high speed train scenario (UID-900050) NR\_HST-UEConTest

##### 5.3.14.1 TS 38.508-1

##### 5.3.14.2 TS 38.508-2

**R5-222634 Addition of PICS for NR HST RRM TCs**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0325 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223721**.

**R5-223721 Addition of PICS for NR HST RRM TCs**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0325 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222634)

**Decision:** The document was **agreed**.

##### 5.3.14.3 TS 38.521-4

###### 5.3.14.3.1 Conducted Demod Performance and CSI Reporting Requirements (Clause 5)

**R5-222231 Update of Demod TC 5.2.2.1.9\_1 2Rx FDD FR1 HST-SFN performance**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0503 Cat: F (Rel-16)  
  
 Source: CMCC, Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-222232 Update of Demod TC 5.2.3.1.1\_1 4Rx FDD FR1 PDSCH mapping Type A perf for NR HST**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0504 Cat: F (Rel-16)  
  
 Source: CMCC, LG Electronics*

**Abstract:**

RAN4 CR dependency R4-2208532.

**Discussion:**

R4-2208532 is endorsed.

**Decision:** The document was **agreed**.

**R5-222233 Update of Demod TC 5.2.3.1.9\_1 4Rx FDD FR1 HST-SFN performance**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0505 Cat: F (Rel-16)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222234 Update of Demod TC 5.2.3.1.10\_1 4Rx FDD FR1 HST-DPS performance**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0506 Cat: F (Rel-16)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222957 Editorial, removal of editors note in test case 5.2.2.2.10\_1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0544 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Editorial

**Discussion:**

was wrong 3GU Rel.

r1

**Decision:** The document was **revised to R5-223722**.

**R5-223722 Editorial, removal of editors note in test case 5.2.2.2.10\_1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0544 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-222957)

**Decision:** The document was **agreed**.

**R5-222958 Adding TT and removal of editors note in test case 5.2.3.2.9\_1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0545 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223723**.

**R5-223723 Adding TT and removal of editors note in test case 5.2.3.2.9\_1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0545 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-222958)

**Decision:** The document was **agreed**.

**R5-222974 Adding TT and removal of editors note in test case 5.2.3.2.10\_1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0546 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223724**.

**R5-223724 Adding TT and removal of editors note in test case 5.2.3.2.10\_1**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0546 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-222974)

**Decision:** The document was **agreed**.

###### 5.3.14.3.2 Clauses 1-4, Annexes

##### 5.3.14.4 TS 38.522

**R5-222635 Correction to applicability of HST RRM TCs**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0166 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223725**.

**R5-223725 Correction to applicability of HST RRM TCs**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0166 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222635)

**Decision:** The document was **agreed**.

**R5-222992 Removal of NOTE1 for test case 5.2.2.2.9\_1, 5.2.2.2.10\_1, 5.2.3.2.9\_1**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0176 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 5.3.14.5 TS 38.533

**R5-222490 Correction to test time in 6.1.1.7**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1752 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Abstract:**

depends on the RAN4 draftCR R4-2207650

**Decision:** The document was **agreed**.

**R5-222491 Editorial correction in 6.1.2.5**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1753 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222492 Correction to physical cell identity in 6.6.3.2 and 6.6.3.3**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1754 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222493 Correction to test procedure in 8.2.1.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1755 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222507 Correction to DRX offset setting in 6.6.1.7**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1760 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222508 Correction to DRX offset setting in 6.6.3.3**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1761 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222509 Correction to DRX offset setting in 8.4.2.x**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1762 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

##### 5.3.14.6 TS 36.508

##### 5.3.14.7 TS 36.521-2

##### 5.3.14.8 TR 38.903 (NR MU & TT analyses)

##### 5.3.14.9 Discussion Papers, Work Plan, TC lists

#### 5.3.15 Physical Layer Enhancements for NR Ultra-Reliable and Low Latency Communication (URLLC) (UID-900054) NR\_L1enh\_URLLC-UEConTest

##### 5.3.15.1 TS 38.508-1

##### 5.3.15.2 TS 38.508-2

##### 5.3.15.3 TS 38.521-4

###### 5.3.15.3.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

**R5-222498 Correction to k0 value description**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0509 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222894 Update to URLLC test cases 5.2.x.y.6**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0539 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

Depending on disc R5-222891

**Discussion:**

r1

**Decision:** The document was **revised to R5-223726**.

**R5-223726 Update to URLLC test cases 5.2.x.y.6**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0539 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222894)

**Decision:** The document was **agreed**.

**R5-222895 Update to URLLC test cases 5.2.x.y.7**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0540 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-222896 Update to URLLC test cases 6.2.x.y.1.2**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0541 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

###### 5.3.15.3.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

**R5-222897 Update to URLLC test case 7.2.2.2.2**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0542 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

Depending on disc R5-221891

**Discussion:**

. The document was initially associated with discussion on 1% residual BLER. Based on the status of the topic, I think we will need more time to consider how to handle FR2.

Relevant update to Annex F are undone in R5-222893r3.

**Decision:** The document was **withdrawn**.

**R5-222898 Update to URLLC test case 7.2.2.2.3**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0543 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

RAN4 dependency R4-2209851

**Decision:** The document was **agreed**.

###### 5.3.15.3.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.15.3.4 Clauses 1-4, Annexes

**R5-222892 Update to Annex G for minimum test time**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0537 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

Depending on disc R5-222891

**Discussion:**

r1

**Decision:** The document was **revised to R5-223727**.

**R5-223727 Update to Annex G for minimum test time**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0537 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222892)

**Decision:** The document was **agreed**.

**R5-222893 Update to Annex F for URLLC test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0538 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

Depending on disc R5-222891

**Discussion:**

r1

**Decision:** The document was **revised to R5-223728**.

**R5-223728 Update to Annex F for URLLC test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0538 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222893)

**Decision:** The document was **agreed**.

##### 5.3.15.4 TS 38.522

##### 5.3.15.5 TR 38.903 (NR MU & TT analyses)

##### 5.3.15.6 Discussion Papers, Work Plan, TC lists

**R5-222891 Discussion on minimum test time for 1% residual BLER**

*Type: discussion For: Agreement  
 38.521-4 v..  
 Source: Huawei, HiSilicon*

**Abstract:**

Impacted CRs: R5-222892, R5-222893, R5-222894, R5-222897

**Discussion:**

r1

Orange: we cannot I agree on your proposal 1 and 2 requiring high relaxation, we agree to reduce the testing time but this should not be considered as an objective rather than achieving the requirements itself.

Huawei: After further checking the current framework of the demod MU calculation, we realized the tunnel width should not be used directly as the SNR tolerance. It should be considered as one additional uncertainty factor: SNR uncertainty due to finite test time.

In current TS 38.521-4, similar tolerance is already considered for certain scenarios. For PDSCH demodulation, the SNR uncertainty due to finite test time is adopted as ±0.3 dB for 10Hz Doppler

With the similar consideration, we would like to propose a +/- 0.4dB SNR uncertainty for the 1% residual BLER test case, which will lead to 0.1dB increase in the overall MU and TT.

r3

Qualcomm: Thanks for the r3 with more clarifications added. Regarding the SNR uncertainty due to finite test time, it is added as MU term for the case where the BLER corridor was expanded instead of further extending the test time to let all the seeds converge to narrower BLER corridor. In this 1% BLER case, looks like some seeds are not at all converging even within the expanded BLER corridor of 1% +/- 0.5%. In such a case, adding SNR uncertainty due to finite test time is not appropriate.

Your simulation shows 2 seeds converged around 2% and 2.5% BLER point. Adding a SNR uncertainty corresponding to delta SNR between 1% and 1.5% BLER will still not help right? If we really have to add a MU factor then the delta SNR between 1% and 2.5% needs to be determined from simulation results and added as MU. But I don’t think we should adopt that approach.

We are am thinking whether we should ask RAN4 to reconsider the configuration to ensure we don’t run into this scenario of some seeds not converging to 1% BLER point. Though not hopeful of Ran4 taking any action now for this test case.

Would like to hear more views on this.

Huawei: I don’t quite understand why the BLER corridor 1%+/-0.5 couldn’t be used as SNR uncertainty due to finite test time. The difference you mentioned is maybe existing test cases could converge within proposed corridor, but the 1% residual BLER is not totally converged. This might mean the corridor is not selected wide enough, but I don’t see any other essential difference.

We are also reluctant to increase the corridor to 2.5% BLER point since it deviated a bit too far from the 1% BLER target. The cost is as you mentioned 2 out of 30 seeds couldn’t converge and might be falsely failed. Considering the TT selection in many places have already assumed a certain percentage of failing rate, I think this might be acceptable.

Please let us know if current minimum test time and relevant MU are acceptable for you. If you need more time to double check, we could add brackets to the values, and take following months to check.

**Decision:** The document was **revised to R5-223631**.

**R5-223631 Discussion on minimum test time for 1% residual BLER**

*Type: discussion For: Agreement  
 38.521-4 v..  
 Source: Huawei, HiSilicon*

(Replaces R5-222891)

**Decision:** The document was **noted**.

#### 5.3.16 New Rel-17 NR licensed bands and extension of existing NR bands (UID - 900055) NR\_lic\_bands\_BW\_R17-UEConTest

##### 5.3.16.1 TS 38.508-1

###### 5.3.16.1.1 Test frequencies (Clause 4.3.1)

**R5-222348 Update of test channel BWs for n2 due to introduction of CWBs 25 30 and 40 MHz**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2305 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

Author confirmed withdrawn if the CR in R5-223200r3 or any revision of it agreed and the content as in current R5-223200r3 is not changed

**Decision:** The document was **withdrawn**.

**R5-222349 Update of test channel BWs for n5 due to introduction of CWB 25 MHz**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2306 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

r1

Author confirmed withdrawn if the CR in R5-223200r3 or any revision of it agreed and the content as in current R5-223200r3 is not changed

**Decision:** The document was **revised to R5-223642**.

**R5-223642 Update of test channel BWs for n5 due to introduction of CWB 25 MHz**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2306 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-222349)

**Decision:** The document was **withdrawn**.

**R5-222503 Addition of locationAndBandwidth for BW 45 MHz**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2318 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

###### 5.3.16.1.2 Test environment for RF (Clauses 5)

###### 5.3.16.1.3 Test environment for RRM (Clause 7)

###### 5.3.16.1.4 Other clauses, Annexes

##### 5.3.16.2 TS 38.508-2

##### 5.3.16.3 TS 38.521-1

###### 5.3.16.3.1 Tx Requirements (Clause 6)

**R5-223129 Updating RB allocation for CBW 45MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1733 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Wrong RB allocations for SCS=30kHz and 60kHz are corrected, comment from Anritsu.

r1

**Decision:** The document was **revised to R5-223729**.

**R5-223729 Updating RB allocation for CBW 45MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1733 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223129)

**Decision:** The document was **agreed**.

**R5-223130 Updating almost contiguous RB allocation for 45MHz CBW**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1734 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-223131 Updating AMPR test case for NS\_48 for CBW 45MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1735 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Abstract:**

TP in R5-223132

**Discussion:**

overlap with R5-222485.

r1

comments from R&S.

Reminder from Bureau Veritas, NOTE 7 is added in table 6.2.3.3.1-1

r2

**Decision:** The document was **revised to R5-223730**.

**R5-223730 Updating AMPR test case for NS\_48 for CBW 45MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1735 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223131)

**Decision:** The document was **agreed**.

**R5-223133 Updating Additional spurious emissions for NS\_48 for 45MHz CBW**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1736 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Abstract:**

TP in R5-223132

**Decision:** The document was **agreed**.

**R5-223134 Updating test case 6.3.1 Minimum output power for CBW 45MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1737 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-223135 Updating transmit ON\_OFF time mask test case for 45MHz CBW**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1738 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

conflict with R5-222480.

**Decision:** The document was **agreed**.

**R5-223137 Updating 6.3D.1 Minimum output power for UL MIMO for 45MHz CBW**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1740 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-223138 Updating transmit ON\_OFF time mask for MIMO test case for 45MHz CBW**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1741 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

###### 5.3.16.3.2 Rx Requirements (Clause 7)

**R5-222350 Update of reference sense test case 7.3.2 for n41 and CWB 70 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1658 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

r1

**Decision:** The document was **revised to R5-223731**.

**R5-223731 Update of reference sense test case 7.3.2 for n41 and CWB 70 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1658 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-222350)

**Decision:** The document was **agreed**.

**R5-222351 Update of reference sense test case 7.3.2 for n48 and CWBs 30 and 70 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1659 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222352 Update of reference sense test case 7.3.2 for n2 and CWBs 25 30 and 40 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1660 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222353 Update of reference sense test case 7.3.2 for n5 and CWB 25 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1661 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222448 Editorial correction of REFSENS test case 7.3.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1667 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-223057 Addition of 45M into TC 7.5 Adjacent channel selectivity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1730 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **withdrawn**.

**R5-223136 Updating test case 7.4 Maximum input level for new Rel-17 CBWs**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1739 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

###### 5.3.16.3.3 Clauses 1-5, Annexes

**R5-222354 Introducing CBW 70 MHz for Default Downlink Power levels in Annex C**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1662 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222355 Introducing CBW 30 MHz for Characteristics of the Interfering Signaling in Annex D**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1663 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222356 Introducing CBW 70 MHz for Characteristics of the Interfering Signaling in Annex D**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1664 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

sub-AI

**Decision:** The document was **agreed**.

**R5-222664 General updates of clause 5 for R17 new CBW configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1682 Cat: F (Rel-17)  
  
 Source: China Unicom, Ericsson*

**Decision:** The document was **agreed**.

##### 5.3.16.4 TS 38.521-2

###### 5.3.16.4.1 Tx Requirements (Clause 6)

###### 5.3.16.4.2 Rx Requirements (Clause 7)

###### 5.3.16.4.3 Clauses 1-5, Annexes

##### 5.3.16.5 TS 38.521-4

###### 5.3.16.5.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.16.5.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.16.5.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.16.5.4 Clauses 1-4, Annexes

##### 5.3.16.6 TS 38.533

##### 5.3.16.7 TR 38.903 ((NR MU & TT analyses)

##### 5.3.16.8 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-223132 Updating A-MPR and A-SE TP analysis for NS\_48**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0627 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Abstract:**

TC in R5-223131 and R5-223133

**Discussion:**

Tdoc #

r2

**Decision:** The document was **revised to R5-223732**.

**R5-223732 Updating A-MPR and A-SE TP analysis for NS\_48**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0627 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223132)

**Decision:** The document was **agreed**.

##### 5.3.16.9 Discussion Papers, Work Plan, TC lists

#### 5.3.17 Rel-17 NR CA and DC; and NR and LTE DC Configurations (UID-900056) NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest

**R5-222477 MU discussion on 40 cm Quiet Zone**

*Type: discussion For: Endorsement  
 Source: Anritsu*

**Abstract:**

Associated CRs R5-222478, R5-222479

**Discussion:**

was wrong WIC & AI.

r1

Keysight USA:

In your discussion paper, you are making the following statement “In our analysis, an increase of QoQZ uncertainty is 0.2 dB” We believe such statement without any measurement results (P1, P1-P7, list of frequencies, EIRP and TRP MUs) and any clarification of assumptions (re-positioning concept, reference points) is not sufficient to define MTSU/MUs for test cases for larger DUTs/QZs. We would therefore encourage you to provide a full set of measurement data to justify the QoQZ MUs. Until then, we believe the results presented in R5-222553 should serve as reference for QoQZ MU.

Anritsu: Our proposal is based on P1/P1-P7, 23.45/32.125/40.8 GHz, EIRP and TRP. I will provide further detail of measurement conditions and a full set of measurement data by UTC 08:00 Thursday.

KS USA: Your Proposal 1 is based on the comparison of preliminary QoQZ MU data from at least two TE/system vendors. As mentioned above, we should follow previously agreed practices and define MUs based on fully documented and complete set of data.

Your Proposal 3 and the underlying MU/MTSU calculations are based on a new framework where you are proposing to leverage the ETC MU for the NTC & ETC test cases of MOP (B.3.2-x, Tables B.3-2 & B.3.2-9 in R5-222479r1) and REFSENS (Table B.19.2-x, Tables B.19-1 and B.19.2-5 in R5-222479r1). It is not clear why are proposing to change the framework for 40cm QZ, i.e., the ETC MU applies to ETC and NTC test cases, while for 30cm QZ, the NTC MU applies to NTC test cases and the ETC MU applies only to ETC test cases.

Anritsu: In 30 cm QZ, NTC MU and ETC MU were separately defined due to historical reasons that there was no ETC test system at the first time. However, we should define the common MU value for both of NTC and ETC from now on. Adding and removing ETC enclosure for each test significantly increases test time, so I proposed MTSU calculations based on only ETC.

KS USA: In the spreadsheet, you are furthermore assuming/proposing an increase of the ‘Quality of QZ for calibration process’ by 0.3dB. What is the technical justification for this MU element to increase for the 40cm QZ since the evaluation is performed at P1/center of QZ, i.e., shouldn’t the 30cm results match the 40cm results?

Anritsu: We assume that QoQZ increases in calibration process as well based on the measurement results.

KS USA: While we agree that XPD needs to be investigated separately for 40cm, we would also like to see actual measurement results including the frequency range assessed. We also believe that we should focus on XPD MU only instead of discussing relative XPD changes from 30cm (Table 1 could allow an interpretation that the actual XPD is proposed to be 5dB, Table B.2.20.10-2 only lists the XPD MUs and more importantly, the 25dB XPD assumption for 30cm QZ is not captured anywhere in TR 38.903 which should probably be added in TR 38.903 based on P1 in R5-190864).

Anritsu: Of course, Table 1 does not try to propose actual XPD value as 5 dB. It is the difference of XPD between 40 cm QZ and 30 cm QZ. I would like to change the observation/table/proposal as “XPD MU increases from 0.01 dB (30 cm QZ) to xx dB (40 cm QZ).

KS USA: Thanks a lot for providing your set of measurement results, this really helps. I have a couple more clarification questions

• Are these measurements based on the full set of test points, i.e., 238?

Anritsu: Yes, these results are based on 238 test points (7 positions \* 17 beam directions \* 2 polarizations) for in-band or 14 test points (7 positions \* 1 beam directions \* 2 polarizations) for spurious.

• Do you have the measurements for XPD as well?

Anritsu: we don’t have it. I think XPD was decided without measurement results in PC3.

• These results clearly indicate that your 40cm QoQZ MU falls within the 30cm QoQZ ETC MU results agreed previously, i.e., 0.6dB for calibration process (P1 only) and 0.9dB for measurement process. It is therefore not clear why your Observation 1 suggests an increase of QoQZ MU by 0.2dB. Could you please clarify?

Observation 1: An increase of QoQZ uncertainty is expected as 0.2 dB when the QZ size is extended from 30 cm to 40 cm.

Anritsu: The maximum difference between 40 cm QoQZ ETC and 30 cm QoQZ ETC is around 0.2 dB. That is the reason of 0.2 dB. Perhaps we may have overestimated the increasement, but I doubt that the increase is completely zero. How about define the increase of QoQZ as 0.1 dB?

Given our results are aligned in that the QoQZ MU for 40cm is within the range previously agreed for 30cm (yours for ETC and ours for NTC), I suggest that we expand the TR 38.903 tables in B.2.2.3 as follows and await results next meeting to confirm/revise these numbers?

Anritsu: It is acceptable to define with [ ] in this meeting. According to the above comment that defines the increase of 0.1dB, I suggest the green values in the tables below.

Regarding defining just a single MTSU for 40cm, i.e., apply the 40cm ETC MTSU to the ETC and NTC test cases (I quoted your feedback in the other thread below)

Anritsu: In 30 cm QZ, NTC MU and ETC MU were separately defined due to historical reasons that there was no ETC test system at the first time. However, we should define the common MU value for both of NTC and ETC from now on. Adding and removing ETC enclosure for each test significantly increases test time, so I proposed MTSU calculations based on only ETC.

We still have slight concerns with the proposed approach as we previously tried to optimize the MU for each respective test case given the feedback from industry on high Mus. However, we are interested to hear from industry on this topic and would be willing to compromise with the majority view.

R&S Spain: Thanks a lot for sharing those results and the discussion, I think they are really useful to make progress. Even though, and as I mentioned during the MU session on Wednesday, we are not ok to set any value at this meeting, even between brackets. These QoQZ results have been provided late to this meeting, and test results from Anritsu are not captured in an actual contribution detailing the baseline conditions.

In addition, based on the ongoing discussion, we think more time is also needed to properly conclude the overall approach to handle the separation (or not) between frequency ranges and NTC/ETC.

The proposal below collapses every frequency range for in-band and OOB into one number (incl. ACLR relative measurement), it disregards the previously agreed value for n259 (see R5-211656, e.g. 0.7dB for EIRP QoQZ for QZ <= 30cm for 44.3GHz) and could be even understood as applicable for 49GHz for which we only had values provided by one company after deadline. We don’t even have a CR, nor even draft, to properly capture, analyze and discuss the ramification from this discussion.

On our side, we need more time to process these results, analyze the implications to all MU tables, and also finalize our own measurement results. Considering that our preliminary results still give us an 0.3dB QoQZ MU increase from 30 to 40cm QZ, we cannot agree this meeting to the value proposed.

r2

measurement results and information for R5-222553 were added.

It seems that we are not ready to reach consensus on concrete increase value for QZ = 40 cm in this meeting.

For frequency ranges, we assumed only up to 40.8 GHz because MU budged sheets in 38.903 are defined for only f=23.45GHz, 32.125GHz, 40.8GHz now. I would like to know more opinions from other companies about frequency ranges and NTC/ETC for considering the future discussion.

5/10: Offline discussions are occurring.

5/11 FR2 MU GTM#1:

R&S: P1 results for the QoQZ would be similar. Our XPD results were similar to Anritsu and KS.

KS: Provided a number of comments by email on 5/10 on the contribution and reviewed the comments (not duplicated here).

Anritsu: Will reply to KS comments over email and agree to change the proposal for XPD.

Revised to: R5-222477r2.

Revised from: R5-222477r1.

Associated CRs R5-222478, R5-222479

5/16 FR2 MU GTM#2:

Anritsu: Updated paper to include updated values and to address offline KS comments.We cannot confirm any values at this meeting based on offline email discussions.

Moderator (AT&T): This paper can be given a final Tdoc number and noted.

**Decision:** The document was **revised to R5-223613**.

**R5-223613 MU discussion on 40 cm Quiet Zone**

*Type: discussion For: Endorsement  
 Source: Anritsu*

(Replaces R5-222477)

**Decision:** The document was **noted**.

**R5-223058 Handling of FR2 Power Class 1 in RAN5**

*Type: discussion For: Endorsement  
 Source: NTT DOCOMO INC.*

**Discussion:**

was wrong WIC & AI.

r1

Anritsu: will support the proposed schedule. It might be a tight schedule, but we need to proceed PC1 MU work for Japanese regulatory requirement. We expect that extending the existing testability assumptions in PC3 to PC1 will help us to reach an agreement in a short term.

Keysight Spain: we think that the time frame to define the PC1 MUs is very challenging, especially taking into account the existing progress on PC3 MU calculations, and the fact that only part of the work done for PC3 can be leveraged. There are other pieces of the work with dependencies on the dynamic range involved in the measurements that need to be re-evaluated as

o the influence of noise

o the uncertainty of the measurements themselves

o test system paths used could also suffer some differences so mismatch uncertainties should be also reviewed

o relaxations required etc.

This does not mean that RAN5 will not do the best effort to complete this task as much as possible to enable Japanese regulatory market.

- we were wondering why whether different priorities from those defined for PC3 were defined for PC1.

- In order to define the upper limits of MU and Relaxation for P1 test cases, the full analysis is required.

Anritsu: I think that we can calculate a value in a short period of time by using the current agreed relaxation in PC3. For example, if a required dynamic range is increased by 5 dB from PC3 to PC1, then relaxation value in PC1 can be obtained as 5 dB larger than PC3.

It is OK to modify the time plan to define the upper limits for P1 test cases other than MOP, Spherical coverage and REFSENS from RAN5#96 to RAN5#97.

But we would like to ask TE vendors to propose the upper limits for all P1 test cases as much as possible in RAN5#96.

Because we need a basis for the values when we enter the MU, TT and Relaxation in Japanese regulatory.

For the test cases that take a long time to calculate the upper limit, could you please suggest a conservative value for the upper limit?

As I mentioned in FR2 MU session yesterday, we would like to focus on n257 in order to reduce the load on TE vendors.

5/11: Offline discussions are occurring.

5/16 FR2 MU GTM#2:

KS: Priority 1 in this case is not aligned with PC3 cases. Reducing the test cases for priority 1 to the list of test cases that we used for PC3 for August meeting would help to focus the work.

NTT DOCOMO: Will check to see if the proposals can be modified with the Japanese regulators. Will continue discussion offline.

Moderator (AT&T): Should be focus be on 30cm and allow the 40cm to progress based on the other effort.

R&S: Focus on FR2a.

HW: Is the PC1 analysis based on FR2a and FR2b? R&S already clarified this question.

NTT DOCOMO: Need limits for n257 only. Can focus on FR2a.

KS: 30cm should be considered the baseline and 40cm is optional.

QC: We should be OK with Japanese regulators putting in placeholder values if necessary.

Orange: Concerning PC1, the FWA devices are larger which may not fit in 30cm.

KS: There are always devices that don't fit in 30cm. Our proposal doesn't preclude larger devices.

Moderator (AT&T): Continue discussion over email to come to a way forward. Any revision shall be produced prior to the FR2 MU discussion paper deadline of Tuesday, 17 May, 15:00UTC.

5/17: Moderator (AT&T): NTT DOCOMO checked if the time plan could be modified with the Japanese regulators and confirmed that it is OK to modify the time plan to define the upper limits for P1 test cases other than MOP, Spherical coverage and REFSENS from RAN5#96 to RAN5#97. NTT DOCOMO asks the TE vendors to propose the upper limits for all P1 test cases as much as possible in RAN5#96

because they need a basis for the values for MU, TT and Relaxation in Japanese regulatory requirements. For the test cases that take a long time to calculate the upper limit, NTT DOCOMO asked for a conservative value for the upper limit? NTT DOCOMO confirmed on the GTW to focus on n257 in order to reduce the load on TE vendors. There was no revision provided to update the proposals. This paper can be given a final Tdoc and noted.

r2 was uploaded too late -> discarded.

comments concerning the Japanese regulators and the request of the TE vendors in the r1 comments remain.

**Decision:** The document was **revised to R5-223621**.

**R5-223621 Handling of FR2 Power Class 1 in RAN5**

*Type: discussion For: Endorsement  
 Source: NTT DOCOMO INC.*

(Replaces R5-223058)

**Decision:** The document was **noted**.

##### 5.3.17.1 TS 38.508-1

###### 5.3.17.1.1 Test frequencies (Clause 4.3.1)

**R5-222209 Correction of test channel bandwidth**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2298 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **withdrawn**.

**R5-222329 Correction of test frequencies for CA\_n66(2A) BCS1 and BCS2**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2303 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222572 Addition of CA configuration for CA\_n29A-n71A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2329 Cat: F (Rel-17)  
  
 Source: WE Certification Oy, DISH Network*

**Decision:** The document was **agreed**.

**R5-223126 Introducing band configuration DC\_20A\_n257A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2397 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-223197 Introduction of test frequencies for additional Rel-17 NR CA and EN-DC inter-band configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2401 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Decision:** The document was **agreed**.

**R5-223222 Correction to 4.3.1.1.2.1 on test frequencies for NR inter-band CA configurations in FR1 with two bands**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2403 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the downlink CA configurations and uplink CA configurations for some NR CA configurations in FR1 with two bands.

**Decision:** The document was **agreed**.

**R5-223223 Correction to 4.3.1.1.2.2 on test frequencies for NR inter-band CA configurations in FR1 with three bands**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2404 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the downlink CA configurations for “CA\_n66A-n70A-n71(2A)”

**Decision:** The document was **agreed**.

**R5-223224 Correction to 4.3.1.1.5.66 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n66 with class 2A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2405 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the test frequencies for CA\_n66(2A).

**Decision:** The document was **agreed**.

**R5-223225 Correction to 4.3.1.1.5.71 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n71 with class 2A**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2406 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the test frequencies for CA\_n71(2A).

**Decision:** The document was **agreed**.

**R5-223229 Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R17 configurations with three bands**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2410 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

The test frequencies of the following Rel-17 inter-band EN-DC configurations are not correct and need to be updated.

**Decision:** The document was **agreed**.

**R5-223234 Editorial correction to 4.3.1.2.2 on test frequencies for NR inter-band CA configurations in FR2 for CA\_n260-n261**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2411 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

[Editorial Correction]

Correct the test frequencies for CA\_ n260-n261.

**Decision:** The document was **agreed**.

###### 5.3.17.1.2 Test environment for RF (Clauses 5)

###### 5.3.17.1.3 Test environment for RRM (Clause 7)

###### 5.3.17.1.4 Other clauses, Annexes

##### 5.3.17.2 TS 38.508-2

**R5-222573 Addition of CA\_n29A-n71A applicability**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0323 Cat: F (Rel-17)  
  
 Source: WE Certification Oy, DISH Network*

**Decision:** The document was **agreed**.

**R5-223070 Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0335 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Discussion:**

CR coversheet:

Addition of test frequencies for NR inter-band EN-DC configurations including n1"

r1

**Decision:** The document was **revised to R5-223733**.

**R5-223733 Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0335 rev 1 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC.*

(Replaces R5-223070)

**Decision:** The document was **agreed**.

**R5-223127 Introducing R17 band configuration DC\_20A\_n257A**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0338 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-223212 Introduction of UE capabilities for additional Rel-17 NR CA and EN-DC configurations**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0343 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Decision:** The document was **agreed**.

##### 5.3.17.3 TS 38.521-1

###### 5.3.17.3.1 Tx Requirements (Clause 6)

**R5-222661 Updating General Spurious Emissions TC for CA\_n24-n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1679 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223734**.

**R5-223734 Updating General Spurious Emissions TC for CA\_n24-n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1679 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222661)

**Decision:** The document was **agreed**.

**R5-222662 Updating General Spurious Emissions TCs for CA\_n24-n48**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1680 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

CR coversheet:

Updating General SE and UE coexistence TCs for CA\_n24A-n48A"

r3

**Decision:** The document was **revised to R5-223735**.

**R5-223735 Updating General Spurious Emissions TCs for CA\_n24-n48**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1680 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222662)

**Decision:** The document was **agreed**.

**R5-222663 Updating General Spurious Emissions TCs for CA\_n24-n77**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1681 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

CR coversheet:

Updating General SE and UE coexistence TCs for CA\_n24-n77"

r2

**Decision:** The document was **revised to R5-223736**.

**R5-223736 Updating General Spurious Emissions TCs for CA\_n24-n77**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1681 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222663)

**Decision:** The document was **agreed**.

**R5-222665 Updating Spurious emission for UE co-existence TC for CA\_n24-n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1683 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223737**.

**R5-223737 Updating Spurious emission for UE co-existence TC for CA\_n24-n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1683 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222665)

**Decision:** The document was **agreed**.

**R5-222666 Updating Spurious emission for UE co-existence TC for CA\_n24-n48**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1684 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223738**.

**R5-223738 Updating Spurious emission for UE co-existence TC for CA\_n24-n48**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1684 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222666)

**Decision:** The document was **agreed**.

**R5-222667 Updating Spurious emission for UE co-existence TC for CA\_n24-n77**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1685 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223739**.

**R5-223739 Updating Spurious emission for UE co-existence TC for CA\_n24-n77**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1685 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222667)

**Decision:** The document was **agreed**.

**R5-222672 Updating AMPR TC for Rel-17 CA\_n24-n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1686 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223740**.

**R5-223740 Updating AMPR TC for Rel-17 CA\_n24-n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1686 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222672)

**Decision:** The document was **agreed**.

**R5-222673 Updating AMPR TC for Rel-17 CA\_n24-n48**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1687 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223741**.

**R5-223741 Updating AMPR TC for Rel-17 CA\_n24-n48**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1687 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222673)

**Decision:** The document was **agreed**.

**R5-222675 Updating AMPR TC for Rel-17 CA\_n24-n77**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1689 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223742**.

**R5-223742 Updating AMPR TC for Rel-17 CA\_n24-n77**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1689 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222675)

**Decision:** The document was **agreed**.

###### 5.3.17.3.2 Rx Requirements (Clause 7)

**R5-222571 Addition of reference sensitivity test for several CA combinations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1676 Cat: F (Rel-17)  
  
 Source: WE Certification Oy, DISH Network*

**Decision:** The document was **agreed**.

**R5-222683 Update of R17 CADC configurations into refsense TC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1693 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

###### 5.3.17.3.3 Clauses 1-5, Annexes

**R5-222676 General updates of clause 5 for R17 CADC configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1690 Cat: F (Rel-17)  
  
 Source: China Unicom, WE Certification*

**Discussion:**

was wrong AI

Dish was removed.

r1

**Decision:** The document was **revised to R5-223743**.

**R5-223743 General updates of clause 5 for R17 CADC configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1690 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom, WE Certification*

(Replaces R5-222676)

**Decision:** The document was **agreed**.

##### 5.3.17.4 TS 38.521-2

###### 5.3.17.4.1 Tx Requirements (Clause 6)

###### 5.3.17.4.2 Rx Requirements (Clause 7)

###### 5.3.17.4.3 Clauses 1-5, Annexes

##### 5.3.17.5 TS 38.521-3

###### 5.3.17.5.1 Tx Requirements (Clause 6)

**R5-222748 Update 6.5B.3.3.2 for R17 DC\_14\_n2 and DC\_14\_n66**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1381 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Decision:** The document was **agreed**.

**R5-223231 Correction to 6.2B.1.3 for UE capability IE for inter-band EN-DC UE maximum output power**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1389 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

The UE capability IE for inter-band EN-DC UE maximum output power is incorrectly used .

**Decision:** The document was **agreed**.

###### 5.3.17.5.2 Rx Requirements (Clause 7)

###### 5.3.17.5.3 Clauses 1-5, Annexes

**R5-222704 Update to R17 Configuration for DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1370 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Huawei, HiSilicon, Verizon Switzerland AG, NTT DOCOMO INC.*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223744**.

**R5-223744 Update to R17 Configuration for DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1370 rev 1 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Huawei, HiSilicon, Verizon Switzerland AG, NTT DOCOMO INC.*

(Replaces R5-222704)

**Decision:** The document was **agreed**.

**R5-223063 Addition of Rel-17 NR inter-band EN-DC configurations including n1**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1388 Cat: F (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Discussion:**

merged into the jumbo CR R5-222704.

**Decision:** The document was **withdrawn**.

**R5-223251 Update additional Rel-17 band combination information in Clause 5**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1392 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Discussion:**

include the updates into BV's jumbo CR R5-222704.

**Decision:** The document was **withdrawn**.

##### 5.3.17.6 TS 38.521-4

###### 5.3.17.6.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.17.6.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.17.6.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.17.6.4 Clauses 1-4, Annexes

##### 5.3.17.7 TS 38.522

##### 5.3.17.8 TS 38.533

##### 5.3.17.9 TR 38.903 (NR MU & TT analyses)

##### 5.3.17.10 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222420 Update of R17 Reference Sensitivity test point analysis for FR1 NR CA**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0602 Cat: F (Rel-17)  
  
 Source: China Telecommunications*

**Decision:** The document was **agreed**.

**R5-222574 Addition of test analysis for several CA combinations**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0606 Cat: F (Rel-17)  
  
 Source: WE Certification Oy, DISH Network*

**Abstract:**

is associated with 38.521-1 CR R5-222571.

**Decision:** The document was **agreed**.

**R5-222658 Tx spurious emission TP analysis for Rel-17 CA\_n24-n41**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0607 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223745**.

**R5-223745 Tx spurious emission TP analysis for Rel-17 CA\_n24-n41**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0607 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222658)

**Decision:** The document was **agreed**.

**R5-222659 Tx spurious emission TP analysis for Rel-17 CA\_n24-n48**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0608 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223746**.

**R5-223746 Tx spurious emission TP analysis for Rel-17 CA\_n24-n48**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0608 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222659)

**Decision:** The document was **agreed**.

**R5-222660 Tx spurious emission TP analysis for Rel-17 CA\_n24-n77**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0609 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223747**.

**R5-223747 Tx spurious emission TP analysis for Rel-17 CA\_n24-n77**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0609 rev 1 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

(Replaces R5-222660)

**Decision:** The document was **agreed**.

**R5-222668 TP analysis for AMPR for Rel-17 CA\_n24-n41**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0610 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Decision:** The document was **withdrawn**.

**R5-222669 TP analysis for AMPR for Rel-17 CA\_n24-n48**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0611 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Decision:** The document was **withdrawn**.

**R5-222670 TP analysis for AMPR for Rel-17 CA\_n24-n77**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0612 Cat: F (Rel-17)  
  
 Source: Ligado Networks*

**Decision:** The document was **withdrawn**.

**R5-222682 Update of test points analysis for CA\_n1A-n3A refsens test case**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0613 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

##### 5.3.17.11 Discussion Papers, Work Plan, TC lists

**R5-223128 Discussion on R17 configuration DC\_20A\_n257A handling in RAN5**

*Type: discussion For: Information  
 Source: Huawei, Hisilicon*

**Abstract:**

Observation 1: DC\_20A\_n257A is absent in general section (clause 5) in TS 38.521-3. The basic information in TS 38.101-3 clause 5 need to be included in TS 38.521-3.

Proposal 1: DC\_20A\_n257A need to be added in Table 5.5B.5.1-1 in TS 38.521-3. Observation 2: For Tx test cases for Inter-Band EN-DC including FR2 (1 NR CC), the progress for a specific EN-DC combo depends on the completeness of NR single carrier FR2 Tx test cases in TS 38.521-2 for the NR band. No changes need to be done to the existing TS 38.521-3 Tx test cases. Taking test case 6.2B.1.4.1 as an example.

Proposal 2: No need to modify clause 6 in TS 38.521-3 for DC\_20A\_n257A.

Observation 3: For Rx test cases for Inter-Band EN-DC including FR2 (1 NR CC), the same situation of Tx test cases applies. No changes need to be done to the existing TS 38.521-3 Rx test cases. Taking test case 7.4B.4 as an example: Proposal 3: No need to modify clause 7 in TS 38.521-3 for DC\_20A\_n257A.

**Discussion:**

r1

title changed to "Discussion on handling of EN-DC configuration involving 1 FR2 CC in RAN5"

Proposals are endorsed.

**Decision:** The document was **revised to R5-223629**.

**R5-223629 Discussion on R17 configuration DC\_20A\_n257A handling in RAN5**

*Type: discussion For: Information  
 Source: Huawei, Hisilicon*

(Replaces R5-223128)

**Discussion:**

reissued as R5-223630 because of title change

**Decision:** The document was **withdrawn**.

**R5-223630 Discussion on R17 configuration DC\_20A\_n257A handling in RAN5**

*Type: discussion For: Information  
 Source: Huawei, Hisilicon*

**Abstract:**

reissued from R5-223629 because of title change

**Discussion:**

RF Closing Session:

noted and proposal 1-4 endrosed, captured in PRD21 and implemented in CR's

proposals 1-4 are endorsed.

**Decision:** The document was **noted**.

#### 5.3.18 NR Positioning Support (UID-900057) NR\_pos-UEConTest

##### 5.3.18.1 TS 38.508-1

###### 5.3.18.1.1 Test frequencies (Clause 4.3.1)

###### 5.3.18.1.2 Test environment for RF (Clauses 5)

###### 5.3.18.1.3 Test environment for RRM (Clause 7)

###### 5.3.18.1.4 Other clauses, Annexes

##### 5.3.18.2 TS 38.508-2

##### 5.3.18.3 TS 37.571-1

**R5-222596 Addition of measurement period requirements in Multi-RTT test conditions, DL-TDOA test conditions and DL-AoD test conditions**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0368 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **agreed**.

**R5-222597 Correction of NR RSTD test cases 14.2.1, 14.2.2, 14.3.1 and 14.3.2**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0369 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **agreed**.

**R5-222598 Addition of SRS configuration in UE Rx-Tx time difference measurement period test cases**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0370 Cat: F (Rel-16)  
  
 Source: CATT,X-Net*

**Decision:** The document was **agreed**.

**R5-222599 Addition of new RSTD accuracy test case 14.2.3**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0371 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **agreed**.

**R5-222600 Addition of new RSTD accuracy test case 14.2.4**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0372 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **agreed**.

**R5-222601 Addition of new RSTD accuracy test case 14.3.3**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0373 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **agreed**.

**R5-222602 Addition of new RSTD accuracy test case 14.3.4**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0374 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223748**.

**R5-223748 Addition of new RSTD accuracy test case 14.3.4**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0374 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces R5-222602)

**Decision:** The document was **agreed**.

**R5-222603 Addition of new UE Rx-TX time difference accuracy test case 15.3.1**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0375 Cat: F (Rel-16)  
  
 Source: CATT, X-Net*

**Decision:** The document was **agreed**.

**R5-222604 Addition of new UE Rx-TX time difference accuracy test case 15.3.2**

*Type: CR For: Agreement  
 37.571-1 v16.12.0 CR-0376 Cat: F (Rel-16)  
  
 Source: CATT, X-Net*

**Decision:** The document was **agreed**.

##### 5.3.18.4 TS 37.571-3

**R5-222608 Addition of test applicabilities for RSTD and NR UE Rx-Tx time difference accuracy measurement test cases**

*Type: CR For: Agreement  
 37.571-3 v16.11.0 CR-0152 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **agreed**.

##### 5.3.18.5 TS 37.571-5

##### 5.3.18.6 TR 38.903 ((NR MU & TT analyses)

##### 5.3.18.7 Discussion Papers, Work Plan, TC lists

#### 5.3.19 NR RF requirement enhancements for frequency range 2 (FR2) (UID-910098) NR\_RF\_FR2\_req\_enh-UEConTest

##### 5.3.19.1 TS 38.508-1

##### 5.3.19.2 TS 38.508-2

##### 5.3.19.3 TS 38.521-2

###### 5.3.19.3.1 Tx Requirements (Clause 6)

**R5-222444 Common Uplink Configuration updates for NR RF requirement enhancements for FR2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0726 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

**Abstract:**

This CR depend on R5-222440.

**Discussion:**

Anritsu gave feedback.

r4

**Decision:** The document was **revised to R5-223749**.

**R5-223749 Common Uplink Configuration updates for NR RF requirement enhancements for FR2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0726 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222444)

**Decision:** The document was **agreed**.

**R5-222472 FR2 MPR enhancements**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0727 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

**Abstract:**

This CR depends on the following RAN4 CRs:R4-2207883, R4-2207884.

This CR depends on the following RAN5 Tdocs: R5-222439, R5-222440, R5-222438 andR5-2224440.

**Discussion:**

first agreed, than withdrawn.

**Decision:** The document was **withdrawn**.

**R5-223034 FR2 Enhanced Beam Correspondence test updates**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0740 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Discussion:**

late doc

r2

**Decision:** The document was **revised to R5-223750**.

**R5-223750 FR2 Enhanced Beam Correspondence test updates**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0740 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223034)

**Decision:** The document was **agreed**.

**R5-223044 Test case updates for mpr-PowerBoost-FR2-r16 feature**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0747 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

###### 5.3.19.3.2 Rx Requirements (Clause 7)

**R5-223035 Updates across REFSENS test cases to incorporate Rel.16 requirements**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0741 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

**R5-223038 Updates across Spherical Coverage test cases to incorporate Rel.16 requirements**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0742 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223751**.

**R5-223751 Updates across Spherical Coverage test cases to incorporate Rel.16 requirements**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0742 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223038)

**Decision:** The document was **agreed**.

**R5-223045 Test case updates in Max Input Level FR2 CA tests**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0748 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223752**.

**R5-223752 Test case updates in Max Input Level FR2 CA tests**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0748 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223045)

**Decision:** The document was **agreed**.

###### 5.3.19.3.3 Clauses 1-5, Annexes

##### 5.3.19.4 TS 38.521-3

###### 5.3.19.4.1 Tx Requirements (Clause 6)

###### 5.3.19.4.2 Rx Requirements (Clause 7)

###### 5.3.19.4.3 Clauses 1-5, Annexes

##### 5.3.19.5 TS 38.522

**R5-223036 38.522 applicability updates for Rel.16 FR2 RF enhancements**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0179 Cat: F (Rel-17)  
  
 Source: Apple Portugal*

**Discussion:**

late doc

r2

**Decision:** The document was **revised to R5-223753**.

**R5-223753 38.522 applicability updates for Rel.16 FR2 RF enhancements**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0179 rev 1 Cat: F (Rel-17)  
  
 Source: Apple Portugal*

(Replaces R5-223036)

**Decision:** The document was **agreed**.

##### 5.3.19.6 TR 38.903 (NR MU & TT analyses)

##### 5.3.19.7 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.19.8 Discussion Papers, Work Plan, TC lists

**R5-222439 Discussion on FR2 MPR enhancements**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Discussion:**

Rohde&Schwarz: We prefer to introduce a separate test case for MPR Rel-16 since this simplifies the test case applicability based on modifiedMPR bit.

Regarding Proposal 3, this is challenging since usually these sections are a 1:1 copy of the RAN4 specification. For example, in CR R5-222472 the core specification reference is not directly visible for the cases “If the device is Rel-16 and onwards, is a PC3 device and supports modifiedMPRbehaviour bit 0” and “If the device does not support modifiedMPRbehaviour bit 0”. Whenever the core specification content is different for different releases, the normative reference should point to the different releases of the core specification. It will be quite distracting to have these references mixed with the requirement specification. Thus, as a remedy, we propose to split the test case in separate test cases where an 1:1 alignment to core specification per Release is guaranteed.

We think that it is more straight forward to point to the Rel-16 TC if the manufacturer declares modifiedMPRbehavior bit 0 = 1 per band instead of merging everything into the same test case.

The current approach for Rel-16 Beam Correspondence test case structure requires the introduction of Rel-16 TCs for MOP and spherical coverage. Thus, introducing a Rel-16 TC for MPR is in alignment to this structure.

Therefore, we tend not to agree to Proposal 2. We have the same concern on the associated CR R5-222472.

R&S agreed to r2.

proposals are endorsed.

**Decision:** The document was **revised to R5-223636**.

**R5-223636 Discussion on FR2 MPR enhancements**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222439)

**Discussion:**

noted and proposals endorsed, CR's implementing the proposals will be submitted by RAN5#96e

**Decision:** The document was **noted**.

**R5-222440 Discussion on Rel-16 Common Uplink Configuration for PC2, PC3 and PC4**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Discussion:**

r1

Huawei: I would like to understand better about the applicability of modifiedMPRbehavior. Since following table is included in the TS38.101-2 v15.17.0, I’m wondering whether this means a Rel-15 UE could support modifiedMPRbehavior bit 0 and therefore support the Rel-16 MPR requirement.

r3

Proposals 1-4 endorsed.

**Decision:** The document was **revised to R5-223634**.

**R5-223634 Discussion on Rel-16 Common Uplink Configuration for PC2, PC3 and PC4**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222440)

**Decision:** The document was **noted**.

**R5-223037 Discussion on FR2 Beam Correspondence test structure**

*Type: discussion For: Agreement  
 Source: Apple Portugal, Keysight*

**Abstract:**

CRs R5-223034, R5-223036

**Discussion:**

r1

**Decision:** The document was **revised to R5-223632**.

**R5-223632 Discussion on FR2 Beam Correspondence test structure**

*Type: discussion For: Agreement  
 Source: Apple Portugal, Keysight*

(Replaces R5-223037)

**Decision:** The document was **noted**.

#### 5.3.20 High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band (UID-911000) ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest

##### 5.3.20.1 TS 38.508-1

##### 5.3.20.2 TS 38.508-2

**R5-223157 Introduction of UE capabilities for additional Rel-17 EN-DC configurations with PC2 band**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0339 Cat: F (Rel-17)  
  
 Source: Verizon Switzerland AG*

**Discussion:**

was wrong WIC HPUE.

"3GU issues found: WIC allocation does not match AI allocation!!!

3GU allocation: HPUE\_PC1\_5\_n77\_n78-UEConTest / AI allocation: ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest

TdocList updated WIC to ""ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest""

3GU Issues resolved by updating TdocList

VzW: intend to merge content to R5-222208 (CAICT) to resolve overlap

BV: R5-222208 is maintenance CR, 3157 shall stay in current WIC as it's specific for PC2

CAICT: better to keep the revision of Table A.4.3.2B.2.3.1-3 in R5-223157. Table A.4.3.2B.2.3.1-3a, i am OK to undo the revision in R5-222208 if VzW agree to revise R5-223157 to add DC\_5A\_n78A to Table A.4.3.2B.2.3.1-3a.

overlap/conflict will resolve by revising R5-222208 (CAICT)"

**Decision:** The document was **agreed**.

##### 5.3.20.3 TS 38.521-3

###### 5.3.20.3.1 Tx Requirements (Clause 6)

###### 5.3.20.3.2 Rx Requirements (Clause 7)

###### 5.3.20.3.3 Clauses 1-5, Annexes

##### 5.3.20.4 TS 38.521-4

###### 5.3.20.4.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.20.4.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.20.4.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.20.4.4 Clauses 1-4, Annexes

##### 5.3.20.5 TS 38.522

##### 5.3.20.6 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.20.7 Discussion Papers, Work Plan, TC lists

#### 5.3.21 2-step RACH for NR (UID-911001) NR\_2step\_RACH-UEConTest

##### 5.3.21.1 TS 38.508-1

##### 5.3.21.2 TS 38.508-2

##### 5.3.21.3 TS 38.522

**R5-222973 Applicability FR1 2-step RACH tests**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0175 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

"---- Spec # inconsistency ----:

3GU:

38.522

CR coversheet:

38.533

---- Version inconsistency ----: 3GU:

17.4.0

CR coversheet:

17.2.0

---- WI code inconsistency ----:

3GU:

NR\_2step\_RACH-UEConTest

CR coversheet:

TEI15\_Test, 5GS\_NR\_LTE-UEConTest

---- Spec # inconsistency ----: 3GU:

38.522

CR coversheet:

38.533

---- Version inconsistency ----:

3GU:

17.4.0

CR coversheet:

17.2.0"

r1

w/d

**Decision:** The document was **revised to R5-223604**.

**R5-223604 Applicability FR1 2-step RACH tests**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0175 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222973)

**Decision:** The document was **withdrawn**.

##### 5.3.21.4 TS 38.533

**R5-222968 Update to 4.3.2.2.3**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1816 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222969 Update to 4.3.2.2.4**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1817 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222970 Update to 6.3.2.2.3**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1818 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222971 Update to 6.3.2.2.4**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1819 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222972 FR1 2-step RACH tests Annexes**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1820 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

CR coversheet:

TEI15\_Test, 5GS\_NR\_LTE-UEConTest"

r1

w/d

**Decision:** The document was **revised to R5-223603**.

**R5-223603 FR1 2-step RACH tests Annexes**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1820 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222972)

**Decision:** The document was **withdrawn**.

##### 5.3.21.5 TR 38.903 (NR MU & TT analyses)

##### 5.3.21.6 Discussion Papers, Work Plan, TC lists

#### 5.3.22 NR-based access to unlicensed spectrum (UID-911003) NR\_unlic-UEConTest

##### 5.3.22.1 TS 38.508-1

###### 5.3.22.1.1 Test frequencies (Clause 4.3.1)

###### 5.3.22.1.2 Test environment for RF (Clauses 5)

###### 5.3.22.1.3 Test environment for RRM (Clause 7)

###### 5.3.22.1.4 Other clauses, Annexes

##### 5.3.22.2 TS 38.508-2

##### 5.3.22.3 TS 38.509

##### 5.3.22.4 TS 38.521-1

###### 5.3.22.4.1 Tx Requirements (Clause 6)

###### 5.3.22.4.2 Rx Requirements (Clause 7)

**R5-222738 Update 7.3F.2 Ref sensitivity power level**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1696 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

TP analysis is covered by R5-222733

**Decision:** The document was **agreed**.

**R5-222739 Introduction of 7.6F.2 IBB for NR\_U**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1697 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

New test case

**Decision:** The document was **agreed**.

**R5-222746 Introduction of ACS for NR\_U**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1701 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Decision:** The document was **agreed**.

###### 5.3.22.4.3 Clauses 1-5, Annexes

**R5-222174 Correction to n46 ARFCN**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1616 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

the change is included in R5-222681.

After discussion with RAN4 leadership it was concluded that the best course of action is that R&S will bring a CR to fix the Release 17 spec in the August RAN4 meeting.

**Decision:** The document was **agreed**.

**R5-222737 Add MU and TT for 7.5F.1 and 7.6F.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1695 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223754**.

**R5-223754 Add MU and TT for 7.5F.1 and 7.6F.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1695 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-222737)

**Decision:** The document was **agreed**.

##### 5.3.22.5 TS 38.521-3

###### 5.3.22.5.1 Tx Requirements (Clause 6)

###### 5.3.22.5.2 Rx Requirements (Clause 7)

###### 5.3.22.5.3 Clauses 1-5, Annexes

##### 5.3.22.6 TS 38.521-4

###### 5.3.22.6.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.22.6.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.22.6.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.22.6.4 Clauses 1-4, Annexes

##### 5.3.22.7 TS 38.522

**R5-222736 Add 7.5F.1 and 7.6F.2**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0169 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Decision:** The document was **agreed**.

##### 5.3.22.8 TS 38.533

##### 5.3.22.9 TR 38.903 (NR MU & TT analyses)

##### 5.3.22.10 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222733 Update for 38.521-1\_TPanalysis\_7.3\_RefSense**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0614 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Decision:** The document was **agreed**.

##### 5.3.22.11 Discussion Papers, Work Plan, TC lists

#### 5.3.23 LTE-NR & NR-NR Dual Connectivity and NR CA enhancements (UID-911004) LTE\_NR\_DC\_CA\_enh-UEConTest

##### 5.3.23.1 TS 38.508-1

###### 5.3.23.1.1 Test frequencies (Clause 4.3.1)

**R5-222307 Introduction of test frequencies for NR-DC in FR1**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2301 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223755**.

**R5-223755 Introduction of test frequencies for NR-DC in FR1**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2301 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222307)

**Decision:** The document was **agreed**.

###### 5.3.23.1.2 Test environment for RF (Clauses 5)

###### 5.3.23.1.3 Test environment for RRM (Clause 7)

###### 5.3.23.1.4 Other clauses, Annexes

**R5-222308 Introduction of NR-DC in FR1 for test setup diagrams**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2302 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

##### 5.3.23.2 TS 38.508-2

##### 5.3.23.3 TS 38.521-1

###### 5.3.23.3.1 Tx Requirements (Clause 6)

**R5-222310 Introduction of Transmitter power for NR-DC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1631 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-222311 Introduction of UE maximum output power reduction for NR-DC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1632 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-222312 Introduction of UE additional maximum output power reduction for NR-DC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1633 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-222313 Introduction of Configured output power for inter-band NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1634 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **agreed**.

**R5-222314 Introduction of Output power dynamics and Minimum output power for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1635 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

All fillowing CRs: Removing changes to CA clause. Add content and note to 6.3B.x with reference to 6.3A.x.

r2

**Decision:** The document was **revised to R5-223756**.

**R5-223756 Introduction of Output power dynamics and Minimum output power for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1635 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222314)

**Decision:** The document was **agreed**.

**R5-222315 Introduction of Transmit OFF power for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1636 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223757**.

**R5-223757 Introduction of Transmit OFF power for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1636 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222315)

**Decision:** The document was **agreed**.

**R5-222316 Introduction of Transmit ON/OFF time mask for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1637 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223758**.

**R5-223758 Introduction of Transmit ON/OFF time mask for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1637 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222316)

**Decision:** The document was **agreed**.

**R5-222317 Introduction of Transmit signal quality and Frequency error for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1638 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223759**.

**R5-223759 Introduction of Transmit signal quality and Frequency error for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1638 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222317)

**Decision:** The document was **agreed**.

**R5-222318 Introduction of Error Vector Magnitude for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1639 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223760**.

**R5-223760 Introduction of Error Vector Magnitude for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1639 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222318)

**Decision:** The document was **agreed**.

**R5-222319 Introduction of Carrier leakage for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1640 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223761**.

**R5-223761 Introduction of Carrier leakage for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1640 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222319)

**Decision:** The document was **agreed**.

**R5-222320 Introduction of In-band emissions for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1641 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223762**.

**R5-223762 Introduction of In-band emissions for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1641 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222320)

**Decision:** The document was **agreed**.

**R5-222321 Introduction of Output RF spectrum emissions and Occupied bandwidth for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1642 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r2

Keysight Spain: Option 1.5 might be the better trade off.

r3

**Decision:** The document was **revised to R5-223763**.

**R5-223763 Introduction of Output RF spectrum emissions and Occupied bandwidth for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1642 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222321)

**Decision:** The document was **agreed**.

**R5-222322 Introduction of Out of band emission Spectrum emission mask for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1643 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223764**.

**R5-223764 Introduction of Out of band emission Spectrum emission mask for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1643 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222322)

**Decision:** The document was **agreed**.

**R5-222323 Introduction of Adjacent channel leakage ratio for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1644 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223765**.

**R5-223765 Introduction of Adjacent channel leakage ratio for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1644 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222323)

**Decision:** The document was **agreed**.

**R5-222324 Introduction of Spurious emission for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1645 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223766**.

**R5-223766 Introduction of Spurious emission for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1645 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222324)

**Decision:** The document was **agreed**.

**R5-222325 Introduction of Transmit intermodulation for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1646 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223767**.

**R5-223767 Introduction of Transmit intermodulation for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1646 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222325)

**Decision:** The document was **agreed**.

**R5-222326 Introduction of NR-DC references to transmitter test requirements**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1647 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223768**.

**R5-223768 Introduction of NR-DC references to transmitter test requirements**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1647 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222326)

**Decision:** The document was **agreed**.

###### 5.3.23.3.2 Rx Requirements (Clause 7)

###### 5.3.23.3.3 Clauses 1-5, Annexes

**R5-222309 Introduction of configuration DC\_n48A-n70A for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1630 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223769**.

**R5-223769 Introduction of configuration DC\_n48A-n70A for NR-DC in FR1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1630 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222309)

**Decision:** The document was **agreed**.

##### 5.3.23.4 TS 38.522

##### 5.3.23.5 TS 38.533

##### 5.3.23.6 TR 38.903 (NR MU & TT analyses)

##### 5.3.23.7 Discussion Papers, Work Plan, TC lists

#### 5.3.24 SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL (UID-920065) NR\_SAR\_PC2\_interB\_SUL\_2BUL-UEConTest

##### 5.3.24.1 TS 38.508-1

##### 5.3.24.2 TS 38.508-2

##### 5.3.24.3 TS 38.521-1

###### 5.3.24.3.1 Tx Requirements (Clause 6)

###### 5.3.24.3.2 Rx Requirements (Clause 7)

###### 5.3.24.3.3 Clauses 1-5, Annexes

##### 5.3.24.4 TS 38.522

##### 5.3.24.5 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.24.6 Discussion Papers, Work Plan, TC lists

#### 5.3.25 Rel-17 High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x=1,2) (UID-920066) NR\_PC2\_CA\_R17\_2BDL\_2BUL-UEConTest

##### 5.3.25.1 TS 38.508-1

##### 5.3.25.2 TS 38.508-2

##### 5.3.25.3 TS 38.521-1

###### 5.3.25.3.1 Tx Requirements (Clause 6)

###### 5.3.25.3.2 Rx Requirements (Clause 7)

###### 5.3.25.3.3 Clauses 1-5, Annexes

##### 5.3.25.4 TS 38.522

##### 5.3.25.5 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.25.6 Discussion Papers, Work Plan, TC lists

#### 5.3.26 29 dBm UE Power Class for LTE Band 41 and NR Band n41 (UID-920068) LTE\_NR\_B41\_Bn41\_PC29dBm-UEConTest

##### 5.3.26.1 TS 38.508-2

##### 5.3.26.2 TS 38.521-1

###### 5.3.26.2.1 Tx Requirements (Clause 6)

###### 5.3.26.2.2 Rx Requirements (Clause 7)

###### 5.3.26.2.3 Clauses 1-5, Annexes

##### 5.3.26.3 TS 38.522

##### 5.3.26.4 Discussion Papers, Work Plan, TC lists

#### 5.3.27 Power Class 2 for EN-DC with x LTE bands + y NR band(s) in DL and with 1 LTE band +1 TDD NR band in UL (either x= 2, 3, y=1 or x=1, 2, y=2) (UID-930051) ENDC\_PC2\_R17\_xLTE\_yNR-UEConTest

##### 5.3.27.1 TS 38.508-2

##### 5.3.27.2 TS 38.521-3

###### 5.3.27.2.1 Tx Requirements (Clause 6)

###### 5.3.27.2.2 Rx Requirements (Clause 7)

###### 5.3.27.2.3 Clauses 1-5, Annexes

##### 5.3.27.3 TS 38.522

##### 5.3.27.4 Discussion Papers, Work Plan, TC lists

#### 5.3.28 High power UE (power class 1.5) for NR band n79 (UID-930052) NR\_UE\_PC1\_5\_n79-UEConTest

##### 5.3.28.1 TS 38.508-2

##### 5.3.28.2 TS 38.521-1

###### 5.3.28.2.1 Tx Requirements (Clause 6)

###### 5.3.28.2.2 Rx Requirements (Clause 7)

###### 5.3.28.2.3 Clauses 1-5, Annexes

##### 5.3.28.3 TS 38.522

##### 5.3.28.4 Discussion Papers, Work Plan, TC lists

#### 5.3.29 High power UE (power class 2) for NR band n34 (UID-930053) NR\_UE\_PC2\_n34-UEConTest

##### 5.3.29.1 TS 38.508-2

##### 5.3.29.2 TS 38.521-1

###### 5.3.29.2.1 Tx Requirements (Clause 6)

###### 5.3.29.2.2 Rx Requirements (Clause 7)

###### 5.3.29.2.3 Clauses 1-5, Annexes

##### 5.3.29.3 TS 38.522

**R5-223161 Update applicability for PC2 n34 test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0182 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

##### 5.3.29.4 Discussion Papers, Work Plan, TC lists

#### 5.3.30 High power UE (power class 2) for NR band n39 (UID-930054) NR\_UE\_PC2\_n39-UEConTest

##### 5.3.30.1 TS 38.508-2

##### 5.3.30.2 TS 38.521-1

###### 5.3.30.2.1 Tx Requirements (Clause 6)

**R5-223159 Update TC 6.5.3.3 Additional spurious emissions for PC2 n39**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1746 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

late doc

**Decision:** The document was **agreed**.

**R5-223160 Update TC 6.2.3 UE additional maximum output power reduction for PC2 n39**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1747 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

Keysight Spain: duplicated contents as in R5-223159.

**Decision:** The document was **withdrawn**.

###### 5.3.30.2.2 Rx Requirements (Clause 7)

###### 5.3.30.2.3 Clauses 1-5, Annexes

##### 5.3.30.3 TS 38.522

**R5-223162 Update applicability for PC2 n39 test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0183 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

##### 5.3.30.4 Discussion Papers, Work Plan, TC lists

#### 5.3.31 High-power UE (power class 1.5) operation in NR bands n77 and n78 (UID-930055) HPUE\_PC1\_5\_n77\_n78-UEConTest

##### 5.3.31.1 TS 38.508-2

##### 5.3.31.2 TS 38.521-1

###### 5.3.31.2.1 Tx Requirements (Clause 6)

**R5-222426 UL MIMO MOP requirements for PC1.5 in n77 and n78**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1665 Cat: F (Rel-17)  
  
 Source: Google Inc., Verizon*

**Discussion:**

cl. aff.

r1

**Decision:** The document was **revised to R5-223770**.

**R5-223770 UL MIMO MOP requirements for PC1.5 in n77 and n78**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1665 rev 1 Cat: F (Rel-17)  
  
 Source: Google Inc., Verizon*

(Replaces R5-222426)

**Decision:** The document was **agreed**.

###### 5.3.31.2.2 Rx Requirements (Clause 7)

###### 5.3.31.2.3 Clauses 1-5, Annexes

##### 5.3.31.3 TS 38.522

##### 5.3.31.4 Discussion Papers, Work Plan, TC lists

#### 5.3.32 Additional NR bands for UL-MIMO in Rel-17 (UID-940090) NR\_bands\_UL\_MIMO\_PC3\_R17-UEConTest

##### 5.3.32.1 TS 38.508-1

###### 5.3.32.1.1 Test frequencies (Clause 4.3.1)

###### 5.3.32.1.2 Test environment for RF (Clauses 5)

###### 5.3.32.1.3 Test environment for RRM (Clause 7)

###### 5.3.32.1.4 Other clauses, Annexes

##### 5.3.32.2 TS 38.521-1

###### 5.3.32.2.1 Tx Requirements (Clause 6)

###### 5.3.32.2.2 Rx Requirements (Clause 7)

###### 5.3.32.2.3 Clauses 1-5, Annexes

##### 5.3.32.3 TS 38.522

##### 5.3.32.4 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.32.5 Discussion Papers, Work Plan, TC lists

#### 5.3.33 Common RF requirement configured output power for EN-DC with 3 uplink CC and 2 different bands (2CC LTE, 1CC NR FR1) (UID-940091) DC\_Pcmax\_3UL\_CC-UEConTest

##### 5.3.33.1 TS 38.508-1

##### 5.3.33.2 TS 38.508-2

##### 5.3.33.3 TS 38.521-3

###### 5.3.33.3.1 Tx Requirements (Clause 6)

**R5-222829 Update of 6.2B.1.3\_1 UE Maximum Output Power for inter-Band EN-DC with 2 E-UTRA CCs and 1 NR CC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1382 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222831

**Decision:** The document was **agreed**.

**R5-222830 Update of 6.2B.4.1.3\_1 Configured Output Power for inter-Band EN-DC with 2 E-UTRA CCs and 1 NR CC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1383 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222832

**Decision:** The document was **agreed**.

###### 5.3.33.3.2 Rx Requirements (Clause 7)

###### 5.3.33.3.3 Clauses 1-5, Annexes

##### 5.3.33.4 TS 38.522

##### 5.3.33.5 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222831 Addition of test point analysis for 6.2B.1.3\_1 Maximum Output Power**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0617 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-222829

**Decision:** The document was **agreed**.

**R5-222832 Addition of test point analysis for 6.2B.4.1.3\_1 Configured Output Power**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0618 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-222830

**Discussion:**

r1

**Decision:** The document was **revised to R5-223771**.

**R5-223771 Addition of test point analysis for 6.2B.4.1.3\_1 Configured Output Power**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0618 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222832)

**Decision:** The document was **agreed**.

##### 5.3.33.6 Discussion Papers, Work Plan, TC lists

#### 5.3.34 UE RF requirements for Transparent Tx Diversity (TxD) for NR (UID-940092) NR\_RF\_TxD-UEConTest

##### 5.3.34.1 TS 38.508-1

**R5-222924 Addition of connection diagram for Tx Diversity support**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2373 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

##### 5.3.34.2 TS 38.508-2

**R5-222925 Addition of physical layer baseline capability for Tx Diversity support**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0330 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

to avoid overlapping with R5-223163r2 from CMCC.

**Decision:** The document was **withdrawn**.

**R5-223163 Addition of PICS for TxD**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0340 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223772**.

**R5-223772 Addition of PICS for TxD**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0340 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces R5-223163)

**Decision:** The document was **agreed**.

##### 5.3.34.3 TS 38.521-1

###### 5.3.34.3.1 Tx Requirements (Clause 6)

**R5-222227 Removal of PC1.5 from TC 6.2.1 MOP**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1625 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223773**.

**R5-223773 Removal of PC1.5 from TC 6.2.1 MOP**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1625 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces R5-222227)

**Decision:** The document was **agreed**.

**R5-222228 Removal of PC1.5 from TC 6.2.2 MPR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1626 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223774**.

**R5-223774 Removal of PC1.5 from TC 6.2.2 MPR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1626 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces R5-222228)

**Decision:** The document was **agreed**.

**R5-222229 Removal of PC1.5 from TC 6.2.3 A-MPR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1627 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223775**.

**R5-223775 Removal of PC1.5 from TC 6.2.3 A-MPR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1627 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces R5-222229)

**Decision:** The document was **agreed**.

**R5-222230 Removal of PC1.5 from TC 6.5.2.4.1 ACLR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1628 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223776**.

**R5-223776 Removal of PC1.5 from TC 6.5.2.4.1 ACLR**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1628 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces R5-222230)

**Decision:** The document was **agreed**.

**R5-222918 Addition of new test case 6.2G.1 maximum output power for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1713 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222927

**Discussion:**

Keysight Spain: We have several comments generic to TxD, affecting at least the CRs listed in the subject (not precluding other CRs under the TxD WI). Many of them shared in some offline discussions so we find convenient to compile them all and share them in the RF reflector.

r1

**Decision:** The document was **revised to R5-223777**.

**R5-223777 Addition of new test case 6.2G.1 maximum output power for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1713 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222918)

**Decision:** The document was **agreed**.

**R5-222919 Addition of new test case 6.2G.2 maximum output power reduction for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1714 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222928

**Discussion:**

r2

**Decision:** The document was **revised to R5-223778**.

**R5-223778 Addition of new test case 6.2G.2 maximum output power reduction for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1714 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222919)

**Decision:** The document was **agreed**.

**R5-222920 Addition of new test case 6.2G.3 additional maximum output power reduction for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1715 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222929

**Discussion:**

Qualcomm: The editor’s note captured what is completed (for NS\_47). What is incomplete (other NS values) needs to be captured as well since that is what editor’s note is really for.

r2

**Decision:** The document was **revised to R5-223779**.

**R5-223779 Addition of new test case 6.2G.3 additional maximum output power reduction for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1715 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222920)

**Decision:** The document was **agreed**.

**R5-222921 Addition of new test case 6.5G.2.3 Adjacent channel leakage ratio for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1716 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP in R5-222928

**Discussion:**

r3

**Decision:** The document was **revised to R5-223780**.

**R5-223780 Addition of new test case 6.5G.2.3 Adjacent channel leakage ratio for Tx Diversity**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1716 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222921)

**Decision:** The document was **agreed**.

**R5-222930 Update of the definition of uplink RB allocation for power class 1.5 UE**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1719 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-223029 Introduce SRS IL for UE with NR TxD**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1729 Cat: F (Rel-17)  
  
 Source: Apple Portugal*

**Abstract:**

RAN4 spec alignment

**Discussion:**

r3

**Decision:** The document was **revised to R5-223781**.

**R5-223781 Introduce SRS IL for UE with NR TxD**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1729 rev 1 Cat: F (Rel-17)  
  
 Source: Apple Portugal*

(Replaces R5-223029)

**Decision:** The document was **agreed**.

###### 5.3.34.3.2 Rx Requirements (Clause 7)

**R5-222922 Update of 7.4 Maximum input level for Tx Diversity support**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1717 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

in offline discussion it was agreed that TxD related changes shall be delayed until TS 38.101 add the corresponding Rx requirements.

**Decision:** The document was **withdrawn**.

###### 5.3.34.3.3 Clauses 1-5, Annexes

**R5-222923 Addition of Annex F for Tx Diversity test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1718 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223782**.

**R5-223782 Addition of Annex F for Tx Diversity test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1718 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222923)

**Decision:** The document was **agreed**.

##### 5.3.34.4 TS 38.522

**R5-222870 Jumbo Applicability CR for NR\_RF\_TxD WI**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0170 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223783**.

**R5-223783 Jumbo Applicability CR for NR\_RF\_TxD WI**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0170 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces R5-222870)

**Decision:** The document was **agreed**.

**R5-222926 Addition of test applicabilities for Tx Diversity test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0173 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

to avoid overlapping with R5-222870r1 from CMCC.

**Decision:** The document was **withdrawn**.

##### 5.3.34.5 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222927 Addition of test point analysis for new test case 6.2G.1**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0622 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-222918

**Decision:** The document was **agreed**.

**R5-222928 Addition of test point analysis for new test cases 6.2G.2 and 6.5G.2.3.1**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0623 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-222919, R5-222921

**Decision:** The document was **agreed**.

**R5-222929 Addition of test point analysis for new test case 6.2G.3**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0624 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TC in R5-222920

**Decision:** The document was **agreed**.

##### 5.3.34.6 Discussion Papers, Work Plan, TC lists

**R5-222185 Discussion on handling of TxD Work Plan for receiver test cases**

*Type: discussion For: Endorsement  
 38.521-1 v..  
 Source: CAICT*

**Abstract:**

Observation 1: RAN4 defines Tx requirements for TxD in sections with suffix G. There is no section with suffix G for Rx requirements.

Observation 2: PUMAX for TxD UEs is defined in clause 6.2G.4 not in clause 6.2.4.

Observation 3: RAN4 has not considered TxD for Rx requirements yet.

Observation 4: As per the above green highlighted part, UL power shall be measured and compared against the limits before measuring the throughput in all Rx test cases except 7.9 Spurious emissions.

Observation 5: RAN5 current TxD Work Plan in [1] R5-221071 has included all nessesary Rx test cases except Reference sensitivity.

Observation 6: Test procedure of REFSENS in 38.521-1 clearly requires TE to ensure the UE transmits PUMAX level, and the UL power is measured and compared against the limits before measuring the throughput by at least two TE Vendors in TC implementation of REFSENS.

Proposal 1: RAN5 TxD Work Plan shall include Reference sensitivity test case.

Option 1: RAN5 TxD Work Plan shall be revised to define Rx test cases in new sections with suffix G no matter the TxD requirements will be added to the current sections or in new sections with suffix G in RAN4.

Option 2: RAN5 TxD Work Plan shall consider Rx test cases the same way as RAN4 spec.

Proposal 2: It is proposed to adopt Option 1 to revise RAN5 TxD Work Plan and define new Rx test cases with suffix G for TxD in section 7 of 38.521-1.

**Discussion:**

CR R5-222922 from Huawei is inconsistent with proposal in R5-222185.

r3

Proposal 1 and Proposal 2 can be endorsed?

r4

**Decision:** The document was **revised to R5-223643**.

**R5-223643 Discussion on handling of TxD Work Plan for receiver test cases**

*Type: discussion For: Endorsement  
 38.521-1 v..  
 Source: CAICT*

(Replaces R5-222185)

**Discussion:**

noted , Prop1 endorsed Rapporteur to update WP before RAN5#96e . Prop2 is working assumptions for updating WP in future RAN5 meeting"

**Decision:** The document was **noted**.

#### 5.3.35 Introduction of FR2 FWA (Fixed Wireless Access) UE with maximum TRP (Total Radiated Power) of 23dBm for band n257 and n258 (UID-950062) NR\_FR2\_FWA\_Bn257\_Bn258-UEConTest

##### 5.3.35.1 TS 38.508-1

##### 5.3.35.2 TS 38.508-2

##### 5.3.35.3 TS 38.521-2

###### 5.3.35.3.1 Tx Requirements (Clause 6)

###### 5.3.35.3.2 Rx Requirements (Clause 7)

###### 5.3.35.3.3 Clauses 1-5, Annexes

##### 5.3.35.4 TS 38.521-4

###### 5.3.35.4.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.35.4.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.35.4.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.35.4.4 Clauses 1-4, Annexes

##### 5.3.35.5 TS 38.533

##### 5.3.35.6 TR 38.903 (NR MU & TT analyses)

##### 5.3.35.7 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.35.8 Discussion Papers, Work Plan, TC lists

#### 5.3.36 NR coverage enhancements (UID-950063) NR\_cov\_enh-UEConTest

##### 5.3.36.1 TS 38.508-1

##### 5.3.36.2 TS 38.508-2

##### 5.3.36.3 TS 38.521-1

###### 5.3.36.3.1 Tx Requirements (Clause 6)

###### 5.3.36.3.2 Rx Requirements (Clause 7)

###### 5.3.36.3.3 Clauses 1-5, Annexes

##### 5.3.36.4 TS 38.521-2

###### 5.3.36.4.1 Tx Requirements (Clause 6)

###### 5.3.36.4.2 Rx Requirements (Clause 7)

###### 5.3.36.4.3 Clauses 1-5, Annexes

##### 5.3.36.5 TR 38.903 (NR MU & TT analyses)

##### 5.3.36.6 TR 38.905 (NR Test Points Radio Transmission and Reception)

##### 5.3.36.7 Discussion Papers, Work Plan, TC lists

#### 5.3.37 Support of reduced capability NR devices (UID-950066) NR\_redcap\_plus\_ARCH-UEConTest

##### 5.3.37.1 TS 38.508-1

**R5-222905 Addition of RedCap default test channel bandwidth**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2371 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Based on the TF160m manager's comment, the CHBW for RedCap is merged into existing tables for better readability.

r2

Ericsson: The added table includes SUL bands. Based on the offline discussion we’re having in respect to RedCap UEs support of SUL or not, the table might have to be modified.

Huawei: As per the agreement in RAN#95 (Mar-22), it’s clearly indicated that SUL for Redcap is not precluded. In other words RedCap could be supported on SUL bands.

r4

more work might be needed to handle the conflict with R5-223200.

**Decision:** The document was **revised to R5-223784**.

**R5-223784 Addition of RedCap default test channel bandwidth**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2371 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222905)

**Decision:** The document was **agreed**.

##### 5.3.37.2 TS 38.508-2

##### 5.3.37.3 TS 38.521-1

###### 5.3.37.3.1 Tx Requirements (Clause 6)

**R5-222899 Addition of Redcap MOP 6.2I.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1709 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP analysis in R5-222903

**Discussion:**

r3

**Decision:** The document was **revised to R5-223785**.

**R5-223785 Addition of Redcap MOP 6.2I.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1709 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222899)

**Decision:** The document was **agreed**.

**R5-222900 Addition of Redcap MPR 6.2I.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1710 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP analysis in R5-222903

**Discussion:**

r4

**Decision:** The document was **revised to R5-223786**.

**R5-223786 Addition of Redcap MPR 6.2I.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1710 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222900)

**Decision:** The document was **agreed**.

**R5-222901 Addition of Redcap AMPR 6.2I.3**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1711 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP analysis in R5-222903

**Discussion:**

r4

**Decision:** The document was **revised to R5-223787**.

**R5-223787 Addition of Redcap AMPR 6.2I.3**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1711 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222901)

**Decision:** The document was **agreed**.

**R5-222902 Addition of Redcap configured output power 6.2I.4**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1712 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TP analysis in R5-222903

**Discussion:**

r3

**Decision:** The document was **revised to R5-223788**.

**R5-223788 Addition of Redcap configured output power 6.2I.4**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1712 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222902)

**Decision:** The document was **agreed**.

###### 5.3.37.3.2 Rx Requirements (Clause 7)

**R5-222837 Addition of Reference sensitivity TC for RedCap**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1704 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Discussion:**

was wrong AI

r2

**Decision:** The document was **revised to R5-223789**.

**R5-223789 Addition of Reference sensitivity TC for RedCap**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1704 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom*

(Replaces R5-222837)

**Decision:** The document was **agreed**.

**R5-223198 Addition of redcap requirement into sub-clause 7.1 and 7.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1748 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **agreed**.

###### 5.3.37.3.3 Clauses 1-5, Annexes

**R5-222839 Addition of redcap general requirement into clause 3-5**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1705 Cat: F (Rel-17)  
  
 Source: China Unicom, ZTE*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223790**.

**R5-223790 Addition of redcap general requirement into clause 3-5**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1705 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom, ZTE*

(Replaces R5-222839)

**Decision:** The document was **agreed**.

**R5-223220 Addition to clauses 3 and 4 for the definitions and abbreviations for Redcap**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1751 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Add the definitions and abbreviations for Redcap.

**Discussion:**

merged into R5-222839r1.

**Decision:** The document was **withdrawn**.

##### 5.3.37.4 TS 38.521-2

###### 5.3.37.4.1 Tx Requirements (Clause 6)

###### 5.3.37.4.2 Rx Requirements (Clause 7)

###### 5.3.37.4.3 Clauses 1-5, Annexes

##### 5.3.37.5 TS 38.521-4

###### 5.3.37.5.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

###### 5.3.37.5.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

###### 5.3.37.5.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

###### 5.3.37.5.4 Clauses 1-4, Annexes

##### 5.3.37.6 TS 38.522

**R5-222904 Addition of test applicability for RedCap test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0171 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223791**.

**R5-223791 Addition of test applicability for RedCap test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0171 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces R5-222904)

**Decision:** The document was **agreed**.

##### 5.3.37.7 TS 38.533

##### 5.3.37.8 TR 38.903 (NR MU & TT analyses)

##### 5.3.37.9 TR 38.905 (NR Test Points Radio Transmission and Reception)

**R5-222903 Addition of TP analysis for FR1 RedCap requirements**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0620 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

TCs in R5-222899, R5-222900, R5-222901, R5-222902

**Decision:** The document was **agreed**.

##### 5.3.37.10 Discussion Papers, Work Plan, TC lists

#### 5.3.38 Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC) (UID-911110) NR\_FR1\_TRP\_TRS-Core (RAN5 Secondary Responsibility)

##### 5.3.38.1 Measurement Uncertainty (MU) assessment proposals for TR 38.834, Discussion Papers, Work Plan

**R5-223055 NR FR1 TRP-TRS status update**

*Type: discussion For: Information  
 38.834 v..  
 Source: ROHDE & SCHWARZ*

**Abstract:**

The aim of this contribution is to present the progress of the WI after last RAN4 and RAN meetings in February and March.

**Discussion:**

RF session#1:

Next steps will be done as part of new RAN5 WI proposal and new RAN5 spec and MU prelim analysis finalized as part of RAN4 WI may have to be revisited.

Continue to use the reflector created for this purpose even for new RAN5 WI contribution discussions

document noted"

**Decision:** The document was **noted**.

#### 5.3.39 Enhanced Test Methods for FR2 NR UEs FS\_FR2\_enhTestMethods (RAN4 Study Item)

##### 5.3.39.1 Discussion Papers, Work Plan to track adoption of the TR 38.884 outcomes into RAN5 test specifications

**R5-222557 On NF Methodologies**

*Type: discussion For: Endorsement  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

This contribution addresses AP#94e.21 including the applicability of the NF methodologies for conformance tests with relaxations, specifically the low UL/high DL power test cases

**Discussion:**

Observation 2: The best-case improvement of the relaxations related to the OTA portion of the conformance test system is ~14dB.

Anritsu: Regarding observation 2, we assume that 14 dB improvement will not be achieved even in the best-case.

In our understanding, 14 dB improvement is the reduction of free space path loss, and it is calculated by Friis transmission equation. However, far field is assumed in Friis transmission equation. In near field, antenna gain’s dependency on the distance needs to be considered.

In addition, NF probe’s gain is assumed to be lower than that of FF probe, because wider beam is required to cover the quiet zone if the antenna is placed close to the quiet zone. When considering the improvement of the relaxations by NF testing, not only the reduction of path losses but also the reduction of antenna gain needs to be considered.

KS USA: we agree that there are multiple aspects including the probe antennas to consider and the best-case improvement would require an antenna gain similar to what we are currently assuming for IFF. An antenna with reduced gain would have an effect on the Influence of Noise MU calculations and would largely be dependent on the conducted portion of the test system (while taking some OTA aspects into account)

Proposal 1: Keep action point AP#94e.21 open until more detailed analyses of the improvements in relaxations related to the conducted portion of the conformance test system is available.

Anritsu: Does proposal 1 mean to consider NF system after the improvement of relaxation by IFF system?

KS USA: We believe NF methodologies and improvements of existing IFF systems can be considered in parallel since the relaxations of some test cases cannot be eliminated with just the improvements of existing methodologies.

R&S spain:

we’d like to join Anritsu in their concerns about the claimed best case improvements on Observation 2, but also add some additional comments for this and other topics in your contribution:

- Observation 1 is supported by a statement that the conducted portion of the system is also improved due to simplification of switching and reduction of system losses. We don’t agree to such statement since the Combined FF and NF system will make switching and overall system more complex since both DL and UL are expected to be measured with the NF antenna depending on the Test Case.

- In addition to Anritsu’s comments on Observation 2, we want to reiterate that the 14dB improvement is only valid for a very concrete implementation (i.e. 20cm range length, black-box approach with 30cm QZ, NTC), while providing some flexibility to the system implementation (e.g. grey-box approach, 40cm QZ, ETC…) will require augmenting the range length for the NF antenna and thus reducing the potential gain from the FSPL.

- Following this rationale and focusing on Observation 3, increasing the NF range length to 30cm or 35cm seem quite more reasonable for a practical implementation and that corresponds to 10.5dB and 9.1dB improvement respectively. In this case, the improvement due to reduction of FSPL do not outperform the improvement of existing test methodologies as presented in TR 38.884.

**Decision:** The document was **noted**.

**R5-223027 Discussion on FR2 Enhanced Test Methods**

*Type: discussion For: Agreement  
 38.521-2 v..  
 Source: Apple Portugal*

**Discussion:**

5/16 FR2 MU GTM#2:

R&S: Regarding P2, we not sure if we should take advantage of this approach. The work to maintain draft CRs across mulitple meetings adds complexity and maintenance.

KS: Draft CRs make sense for cases were we are not sure if the method is to be used. Once we know if the test method is to be used in the test specification, we should use CRs.

Moderator (AT&T): Please add FR2 MU pre-meeting deadline statement to P1. Agree with R&S concerning the comment on draft CRs in P2.

Apple: The goal is not to add any overhead. P2 may not be a mandatory approach and could be followed for some of the cases described by KS. We could use discussion papers with TPs as opposed to draft CRs.

Moderator (AT&T): Modify P1 to add pre-meeting deadlines. Modify P2 to change draft CRs to disucssion papers with TPs.

Apple: Agree with these changes.

E///: Regarding P3, the list of test cases will be updated as this list is based on a very old LS.

Apple: Included this in the WP discussion paper.

Moderator (AT&T): P3 seems generic enough and the specific list of test cases can be maintained as part of the WP. With the modifications to P1 and P2 requested above, the proposals should be able to be endorsed. Will confirm with the r1. The r1 shall be produced prior to the FR2 MU discussion paper deadline of Tuesday, 17 May, 15:00UTC.

r2

noted and the proposals are endorsed.

**Decision:** The document was **revised to R5-223619**.

**R5-223619 Discussion on FR2 Enhanced Test Methods**

*Type: discussion For: Agreement  
 38.521-2 v..  
 Source: Apple Portugal*

(Replaces R5-223027)

**Decision:** The document was **noted**.

**R5-223028 Draft internal Work Plan for FR2 Enhanced Test Methods**

*Type: Work Plan For: Approval  
 Source: Apple Portugal*

**Discussion:**

included Qualcomm.

noted, rapporteur to share the updated WP before RAN5#96e and contributors to follow WP to bring contributions."

**Decision:** The document was **noted**.

**R5-223040 Inputs to RF AP#94e.22**

*Type: discussion For: Agreement  
 38.521-2 v..  
 Source: Apple Portugal*

**Abstract:**

AP#94e.22

**Discussion:**

Keysight Spain: Should Observation 1 and Proposal 1 be extended to include Rx Spurious as well?

Apple: AP#94e.22 already refers to Rx Spurious emissions. Hence the observation and proposal only focuses on addition Additional Tx Spurious (pointing out that is the test that needs to be in the action point instead of Tx Spurious which, as far as we know today, is not blocked by the High DL Power/Low UL Power testability issue).

R&S: Due to observation 2, we think that Proposal 2 can be extended to the case of Additional Tx Spurious emissions.

r1

- Proposal 1 updated to clarify proposed edit to the action point - as suggested by Keysight

- Proposal 2 - after checking we can extend the input to Additional Tx Spurious as well, hence the proposal 2 wording is updated.

With this hopefully this discusssion paper is useful in providing inputs to AP#94e.22 and proposals 1-2 can be considered for endorsement.

Qualcomm agree with the Proposals.

Noted and proposal 1-2 endorsed"

**Decision:** The document was **revised to R5-223641**.

**R5-223641 Inputs to RF AP#94e.22**

*Type: discussion For: Agreement  
 38.521-2 v..  
 Source: Apple Portugal*

(Replaces R5-223040)

**Decision:** The document was **noted**.

**R5-223217 Discussion on improvements of permitted test methods**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Discussion:**

R&S: Regarding proposal 1, we ask to simplify it as follows:

reworded Proposal 1: RAN5 to update the list of RF FR2 test cases with testability issues as part of the analysis required in AP#94e.21.

KS Spain: We don’t see the problem with the statement to be remove as it is the definition of the AP#94e.21. It was there to avoid the reader look for the description of the action point itself. In any case, if this is the request, we are ok to simplify.

On Proposal 2: RAN5 is contribution driven and discussion papers can be provided by any company independent of proposal 2. With respect to observation 3, there seems to be only one TE vendor fostering NF methods inclusion in RAN5. There are precedents of improvements or new methodologies introduced by a single TEV. Thus, we judge Proposal 2 as not needed and cannot agree to it. Of course, we appreciate other TEV’s view, but we want to avoid a blocking of the progress of the improvement of permitted test methods due to proposal 2.

Anritsu: Considering achievable improvements in existing permitted methods someday in the future is agreeable, but I think Proposal 2 doesn’t have any concrete effect because it doesn’t have any deadline. I assume that it will be at least one year later we actually consider it, because many MU topics (QZ 40 cm, PC1, Relative MU, etc.) remain for the existing method yet.

KS Spain: - The work done in TR 38.884 was a preliminary study. Now we are talking about the standardization of the enhanced test methods. Hence the work done needs to be solid and for that, the more companies that look in details into this topic, the better, as we are doing with the measurement uncertainties and the influence of noise of the TE:

- The proposal is not preventing companies different from TE vendors to submit contributions on this topic but we should admit that TE vendors are the most suitable companies to make this analysis as deep knowledge of the test system design is required to estimate the achievable improvements.

- The proposal is not pretending to block any progress as the job has just started and, as Setsu pointed out, there are probably other tasks waiting for longer in the MU Crew waiting list.

- The goal of the proposal was just to remind how the progress in technical report was achieved and our recommendation to get a solid progress in RAN5.

On Proposal 3: We request a rewording to restrict the analysis to exclude the spurious emission range as follows:

reworded Proposal 3: RAN5 to clarify the frequency range to be considered in the analysis of achievable improvements with existing test methodologies excluding the spurious emission test cases.

Anritsu: It is clear that considering frequencies in spurious emission range is necessary when we consider a band. The original Proposal 3 is appropriate.

KS Spain: So far, Rx spurious test case is in the list of test cases in R5-188184. Hence the improvements in existing test methodologies should also consider such frequency range in order to take an educated decision on whether to move forward the new methodologies or not. The overall test system modification needs to be evaluated in order to get the best tradeoff between test coverage and test system complexity increase.

Regarding Proposal 4, we have assumed 75cm focal length in the analysis of improvements. Please, note that the values stated in TR 38.884 are real life improvements of an actual system with a maximum QZ size of 40cm.

Anritsu: It is valuable to share the common assumption on OTA characteristics for discussing the achievable improvements. We assume actual common assumption will be discussed in the future meeting.

KS Spain: At the time this contribution was written, this information was not available and even now, it is not provided in a official meeting document. I agree with Setsu that this should be discussed in future meetings.

On Observation 7 and Proposal 5: Inter-band CA as specified in Rel-16 and 17 has been considered in our analysis. With this clarification Proposal 5 seems no longer needed.

KS Spain: At the time this contribution was written, this information was not available and even now, it is not provided in a official meeting document. I think this should be discussed in future meetings.

On Observation 8: In our analysis, the same type of source and signal conditioning is used for the generation of signal and interferer. Therefore, the improvements in the Maximum Input level test directly apply also to ACS and in-band blocking tests.

KS Spain: Thanks for the clarification. This is an example of implementation dependencies. That’s why I insist on having other TE vendors to look at this and provide at least a better wording for the achievable improvement.

We would like to emphasize that IFF is a well proven method providing the highest flexibility with respect to QZ size, UE size, and ETC testing. As mentioned in the separate thread for R5-222557, the theoretical best case values stated there do not consider neither a QZ size of 40cm, extending that by grey box approach nor ETC testing. The NF methodology lacks this flexibility and has an increased MU. Therefore, we shall follow a stepped approach by improving IFF, taking this as a reference and study possible improvements by NF methodologies. It has to be judged if the improvements by IFF are sufficient to justify the higher system complexity.

Anritsu: Our view is close to R&S. We would like to proceed improvement in IFF system first and then consider whether NF methodologies are absolutely necessary. We believe that the most important purpose of RAN5 is to optimize the test method by considering the trade-off between test cost and test accuracy/coverage, in order to achieve FR2 diffusion in the telecom market. Excessively increasing the performance and cost of test system is not an appropriate approach, so we would like to avoid NF methodologies unless it is absolutely necessary for FR2 diffusion. If the improvement for relaxation is required to solve some bottlenecks in FR2 diffusion, we propose to clarify it first. For example, X dB improvement for relaxation in XX TC is needed to achieve enough characteristics for the market.

KS Spain: This contribution was not promoting Near Field solutions. It was just trying to clarify some of the assumptions of the achievable improvements over existing test methodologies so RAN5 can take the best educated decision on how to move forward with the testability issues observed based on solid information about achievable improvements in existing test systems and the complexity of their upgrades.

r2

R&S: Since there has not been any answers to our comments below and no associated updates in R5-223217r2, we consider that there is no consensus on proposals 2, proposal 3 and proposal 4.

r3

Proposals 1, 3, 4 and 6 should be endorsable now.

r4

R&S: Proposal 1 in section 2.1 is not mirrored correctly to the conclusion. We agree to Proposal 1 in section 2.1 and request to update the conclusion section.

Further, we agree to Proposals 3, 4 and 6.

KS Spain: Proposals 1, 3, 4 and 6 can be endorsed.

Noted , Prop1, 3, 6 are endorsed . prop4 is a working assumptions to be considered by contributors."

**Decision:** The document was **revised to R5-223644**.

**R5-223644 Discussion on improvements of permitted test methods**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

(Replaces R5-223217)

**Decision:** The document was **noted**.

**R5-223287 On improvements of current test methodologies**

*Type: discussion For: Endorsement  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

### 5.4 Routine Maintenance for 5G NR only TEIx\_Test

#### 5.4.1 TS 38.508-1

##### 5.4.1.1 Test frequencies (Clause 4.3.1)

**R5-222547 Correction to test frequency for n53**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2322 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

The carrier centre frequency for mid-range test frequency of band n53 for CBW=10 MHz, SCS=60 kHz has been corrected to match the ARFCN value.

It seems that SIG is not using this test frequency based on Table 6.2.3.1-3 in TS 38.508-1. However, it's note sure whether any SIG spec is directly referring to Table 4.3.1.1.1.53-3 of TS 38.508-1.

**Discussion:**

can also impact SIG.

r1

correct a typo in the test frequency.

**Decision:** The document was **revised to R5-223792**.

**R5-223792 Correction to test frequency for n53**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2322 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222547)

**Decision:** The document was **agreed**.

**R5-222836 Clarification of Annex C for calculation of SSB and CORESET#0 for PCells**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2354 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222875 Clarification of PCC and SCC configuration for CA test cases**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2369 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, CMCC*

**Discussion:**

conflict with R5-222307

r2

**Decision:** The document was **revised to R5-223793**.

**R5-223793 Clarification of PCC and SCC configuration for CA test cases**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2369 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, CMCC*

(Replaces R5-222875)

**Decision:** The document was **agreed**.

**R5-223602 Correction to 4.3.1.4.1.3 on test frequencies for DC\_1A-28A\_n78C**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2415 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

late doc

**Decision:** The document was **agreed**.

##### 5.4.1.2 Test environment for RF (Clauses 5)

**R5-222431 Correction to message contents for CQI reporting**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2310 Cat: F (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **agreed**.

**R5-222432 Addition of message content exceptions for Demod and CSI tests**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2311 Cat: F (Rel-17)  
  
 Source: Rohde & Schwarz*

**Discussion:**

after offline checking this CR is not required and the default setting in section 4.6 is sufficient.

**Decision:** The document was **withdrawn**.

**R5-222502 Addition of test frequency for performance test cases**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2317 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222876 Removing redundant ciphering algorithm for SDR testing**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2370 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Decision:** The document was **agreed**.

##### 5.4.1.3 Test environment for RRM (Clause 7)

**R5-222537 Corrections to Table 7.3.1-12G**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2321 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

##### 5.4.1.4 Other clauses, Annexes

**R5-222555 CR on Permitted Methodologies and Applicability**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2323 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Discussion paper in TDOC #-1.

changes in Clause 7 that are based on changes in Annex B are included in the CR.

**Discussion:**

AI was wrong.

2 files!

offline feedback from R&S.

r2

R&S Spain: We would appreciate some clarification related to the second example baseline system (figure B.2.6.1-1) in your CR. We don’t think the implementation shown there is practical for Enhanced IFF and, unless there are concrete interest from other companies, we think including that second example might be misleading. We’d rather remove that second example.

KS USA: It’s not clear what your specific concern with this example is. We believe this Enhanced IFF approach using one fixed and moveable reflector is a valid example and it’s not clear what is impractical about it. If there are objections from other companies, I suggest we remove it but keep it as example otherwise.

R&S Spain: Our concern is merely related to the simplification of the test specification. There are tens of possible implementations for the permitted methods but we included in the technical specifications those that are either the most generic or examples of actual variations available in the market. In our understanding, having a movable reflector is not practical given the HW and chamber size implications, but if you or other companies confirm it is a realistic implementation that can be used for conformance, we have no problem.

R&S Spain: Besides that, we have concerns of adding DNF to TS 38.508-1 before solving the pending issues that left the feasibility of DNF inconclusive for demodulation testing, as shown in clause 7.2.1.1 of TR 38.810.

From our recollection, it was not possible to conclude on the feasibility of DNF for demodulation due to the impact of a near-field test antenna setup into the UE array (e.g. lower UE antenna gain, change in the UE radiation pattern), and therefore the impact estimation on the performance requirements which are defined at baseband level based on concrete assumptions of the UE antenna gain.

We think it is premature to include a description of DNF into TS 38.508-1 until the feasibility is confirmed.

KS USA: We agree that there were some concerns on feasibility raised in 38.810 but we believe that most if not all have been addressed with the work captured in TR 38.884. How about the following compromise by adding an editorial note to B.2.8

R&S Spain: In our understanding, the concerns raised in TS 38.810 with respect to the applicability of DNF to demodulation testing have not been addressed in TR 38.884. The additional study for DNF in TR 38.884 focused on the applicability to High DL and Low UL power test cases, but we did not study (or even had on the SID) the applicability to Demodulation testing. Therefore, we cannot agree to the inclusion of DNF for demodulation into TS 38.508-1 before the testability aspects are resolved.

r3

KS USA: r3 can be (p.) agreed now based on the latest changes that are aligned with R&S request.

**Decision:** The document was **revised to R5-223795**.

**R5-223795 CR on Permitted Methodologies and Applicability**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2323 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222555)

**Decision:** The document was **agreed**.

**R5-223033 Add new messages and procedure for test function to limit Pcell Power**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2377 Cat: F (Rel-17)  
  
 Source: Apple Portugal*

**Abstract:**

Based on endorsed draftCR R5-221920 from RAN5#94e

**Discussion:**

sub-AI!

RAN5 Vice Chair RF: I understand this topic of WIC is little nuanced for TS38.508-1 CR in R5-223033 given the background that this CR is a Ran5 specific test function related change aligned with test function introduced in TS38.509 Rel16 version and is not dependent on rel16 core(RAN4/2/1) specs , rather it is a maintenance of a feature in Rel15 core (RAN4/2/1) specs , that is being handled differently ( via test function) in RAN5 specs rel16 and fwd .

Since Ran5 has not come across this specific situation of maintenance of a certain feature differently in different releases without dependence with core specs , I am OK to have TEI16\_Test WIC for CR in R5-223033 as an exception noting the below guidance provided to RF session still holds.

r2

**Decision:** The document was **revised to R5-223796**.

**R5-223796 Add new messages and procedure for test function to limit Pcell Power**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2377 rev 1 Cat: F (Rel-17)  
  
 Source: Apple Portugal*

(Replaces R5-223033)

**Decision:** The document was **agreed**.

#### 5.4.2 TS 38.508-2

**R5-222208 Alignment of of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0319 Cat: F (Rel-17)  
  
 Source: CAICT*

**Abstract:**

related CR to R5-222871

**Discussion:**

will remove the overlapping changes to resolve conflicts with R5-223157.

r1

**Decision:** The document was **revised to R5-223797**.

**R5-223797 Alignment of of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0319 rev 1 Cat: F (Rel-17)  
  
 Source: CAICT*

(Replaces R5-222208)

**Decision:** The document was **agreed**.

**R5-222695 Addition of table for NR UL MIMO Capabilities**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0326 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Huawei, HiSilicon*

**Abstract:**

Corresponding TS38.522 update in CR R5-222696

**Decision:** The document was **agreed**.

**R5-222877 Limiting MBR relaxation reporting to Rel-15 only**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0329 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Decision:** The document was **agreed**.

**R5-223233 Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0344 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

The subclause title for A.4.3.2C.1 should be corrected to NR SUL capabilities.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223798**.

**R5-223798 Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0344 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223233)

**Decision:** The document was **agreed**.

**R5-223236 Editorial correction to A.4.3.1 for RF baseline implementation capabilities**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0345 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

[Editorial Correction]

The NR band numbers in the tables of A.4.3.1 should be corrected.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223799**.

**R5-223799 Editorial correction to A.4.3.1 for RF baseline implementation capabilities**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0345 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223236)

**Decision:** The document was **agreed**.

**R5-223237 Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0346 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Editorial corrections to the available bands in Table A.4.3.9-2 for supported FR2 band set “n260, n261”.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223800**.

**R5-223800 Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0346 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223237)

**Decision:** The document was **agreed**.

**R5-223239 Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0347 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

The inter-band NE-DC within FR1 is missing in the table of NSA DC UE Radio Technologies.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223801**.

**R5-223801 Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0347 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223239)

**Decision:** The document was **agreed**.

**R5-223253 Correction pc\_dynamicPowerSharing to align with 38.306**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0348 Cat: F (Rel-17)  
  
 Source: Google Inc.*

**Decision:** The document was **agreed**.

#### 5.4.3 TS 38.509

**R5-223031 Addition of new test function to limit Pcell power**

*Type: CR For: Agreement  
 38.509 v17.0.0 CR-0060 Cat: A (Rel-17)  
  
 Source: Apple Portugal*

**Abstract:**

Based on endorsed draftCR R5-221921 from RAN5#94e

**Discussion:**

CR impact tick box for ME shall be set and none of the other tick boxes for UICC apps, RAN or CN shall be set for TS 38.509

r1

cat. A!

Ericsson: comment related to the Keysight discussion paper R5-223278 which brings up the question about need to test unequal Bandwidths. In our opinion the solution should handle unequal BW since RAN4 are discussing new such BW combos.

Another more procedural question: We chose to use draft-CRs at last meeting to avoid putting in mandatory UE core requirements into 38.509 before we are sure how the exact solution will look like. At last meeting we sent an LS to RAN4 asking about the Xmax parameter. I think we should wait until RAN4 have responded to the LS until we make these requirements normative for all Rel16 Ues. It may therefore we wise to keep draft-CRs at this meeting.

r3

Apple: Regarding your suggestion to introduce a RAN5 version of the Pumax,f,c definition, the feasibilit of the same is unclear considering you also bring up the need for clear core requirements. RAN4 discussed the topic of whether any changes/definitions are needed to the factor in Xmax,f,c within the core spec definitions and have concluded that it was not neccessary.

I am sure RAN5 cannot on its own modify a core requirement related bound/equation and that too within a RAN5 conformance test function spec. In any case such changes have to come from RAN4/TS 38.101-2 to be incorporated into TS 38.521-2. The power back-off is used by the UE to internally determine the headroom for both PCell/SCell. Regardless, we cannot agree to RAN5 internal definition/modification of a core requirement equation without RAN4 spec update. Moreover, even if one were to consider such a definition change, it cannot going to lead to any change in the test requirements (again since RAN4 is not making any change to factor in Xmax,f,c).

**Decision:** The document was **revised to R5-223802**.

**R5-223802 Addition of new test function to limit Pcell power**

*Type: CR For: Agreement  
 38.509 v17.0.0 CR-0060 rev 1 Cat: A (Rel-17)  
  
 Source: Apple Portugal*

(Replaces R5-223031)

**Discussion:**

Ericsson: While we still consider it is very unfortunate that RAN5 specifies an unfinished UE core requirement which can lead to version conflicts down the road, but we have decided respect the groups opinion being the only company opposing it. We hereby withdraw our objection to R5-223802 and R5-223803.

**Decision:** The document was **agreed**.

**R5-223032 Addition of new test function to limit Pcell power**

*Type: CR For: Agreement  
 38.509 v16.4.0 CR-0061 Cat: B (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

Based on endorsed draftCR R5-221921 from RAN5#94e

**Discussion:**

CR impact tick box for ME shall be set and none of the other tick boxes for UICC apps, RAN or CN shall be set for TS 38.509

r3

**Decision:** The document was **revised to R5-223803**.

**R5-223803 Addition of new test function to limit Pcell power**

*Type: CR For: Agreement  
 38.509 v16.4.0 CR-0061 rev 1 Cat: B (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223032)

**Discussion:**

Ericsson: While we still consider it is very unfortunate that RAN5 specifies an unfinished UE core requirement which can lead to version conflicts down the road, but we have decided respect the groups opinion being the only company opposing it. We hereby withdraw our objection to R5-223802 and R5-223803.

**Decision:** The document was **agreed**.

#### 5.4.4 TS 38.521-1

##### 5.4.4.1 Tx Requirements (Clause 6)

**R5-222201 Correction of test metric of out of band emission for UL MIMO**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1618 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222203 Correction of test applicability of 6.4.2.5**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1620 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222207 Moving additional tolerance in 6.2A.3.1.5 and 6.2D.3.5 to end of the section**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1624 Cat: F (Rel-17)  
  
 Source: CAICT, Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

r1: NR-DC requirements were added combining the corresponding changes in R5-222326 to resolve the overlapping issue.

**Decision:** The document was **revised to R5-223804**.

**R5-223804 Moving additional tolerance in 6.2A.3.1.5 and 6.2D.3.5 to end of the section**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1624 rev 1 Cat: F (Rel-17)  
  
 Source: CAICT, Nokia, Nokia Shanghai Bell*

(Replaces R5-222207)

**Decision:** The document was **agreed**.

**R5-222334 Reference correction in test case 6.5C.4**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1652 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222335 Correction of min value for A-MPR - FR1 - NS\_44 - Test ID 17**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1653 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222336 Replace n79C by n77C in test case 6.2A.2.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1654 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222480 Correction to time mask test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1670 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Discussion:**

conflict with R5-223135

r1

**Decision:** The document was **revised to R5-223805**.

**R5-223805 Correction to time mask test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1670 rev 1 Cat: F (Rel-17)  
  
 Source: Anritsu*

(Replaces R5-222480)

**Decision:** The document was **agreed**.

**R5-222485 Correction to RB allocation and test requirement in 6.2.3**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1672 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Discussion:**

r1

conflict with R5-223131.

**Decision:** The document was **revised to R5-223806**.

**R5-223806 Correction to RB allocation and test requirement in 6.2.3**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1672 rev 1 Cat: F (Rel-17)  
  
 Source: Anritsu*

(Replaces R5-222485)

**Decision:** The document was **agreed**.

**R5-222495 Correction to DCI format in 6.4.2.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1673 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223807**.

**R5-223807 Correction to DCI format in 6.4.2.1**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1673 rev 1 Cat: F (Rel-17)  
  
 Source: Anritsu*

(Replaces R5-222495)

**Decision:** The document was **agreed**.

**R5-222740 Update for 6.3.3.1 General clause of Tx ON-OFF time mask**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0220 Cat: F (Rel-16)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

RAN4 CR dependency R4-2210227

**Discussion:**

wrong spec in 3GU! Cover 38.521-1!!

reissued as R5-223291 because of wrong spec

**Decision:** The document was **withdrawn**.

**R5-223291 Update for 6.3.3.1 General clause of Tx ON-OFF time mask**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1755 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

reissued from R5-222740 because of wrong spec

**Discussion:**

r1

**Decision:** The document was **revised to R5-223873**.

**R5-223873 Update for 6.3.3.1 General clause of Tx ON-OFF time mask**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1755 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-223291)

**Decision:** The document was **agreed**.

**R5-222741 Update 6.4.2.1a EVM including symbols with transient period**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1698 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Abstract:**

RAN4 CR dependency R4-2210227

**Discussion:**

r1

**Decision:** The document was **revised to R5-223872**.

**R5-223872 Update 6.4.2.1a EVM including symbols with transient period**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1698 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-222741)

**Decision:** The document was **agreed**.

**R5-222742 Update AMPR for NS\_04**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1699 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Discussion:**

5GS added.

**Decision:** The document was **revised to R5-223808**.

**R5-223808 Update AMPR for NS\_04**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1699 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-222742)

**Discussion:**

wrong zipfile

**Decision:** The document was **revised to R5-223875**.

**R5-223875 Update AMPR for NS\_04**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1699 rev 2 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

(Replaces R5-223808)

**Decision:** The document was **agreed**.

**R5-222745 Update 6.5.3.2 Spurious emissions for UE co-existence**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1700 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Discussion:**

5GS added.

**Decision:** The document was **agreed**.

**R5-222808 Correction of A-MPR regions for NS\_46**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1703 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

RAN4 CR dependency R4-2207886/7.

**Decision:** The document was **agreed**.

**R5-222878 Update to MPR test requirements to remove ambiguity of T\_LC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1708 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Abstract:**

Handling of RAN4 LS R5-222065

**Discussion:**

r1

**Decision:** The document was **revised to R5-223809**.

**R5-223809 Update to MPR test requirements to remove ambiguity of T\_LC**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1708 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

(Replaces R5-222878)

**Decision:** The document was **agreed**.

**R5-222993 Corrections of DCI format for Tx TCs having impact on ETSI EN 301 908-25**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1724 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223139 Correction to 6.2.3 A-MPR PC2 NS\_04 test requirements for band n41**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1742 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223140 Correction to Test Channel Bandwidths for FR1 CA**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1743 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223810**.

**R5-223810 Correction to Test Channel Bandwidths for FR1 CA**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1743 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223140)

**Decision:** The document was **agreed**.

**R5-223141 Editorial correction to test requirement of Aggregate power tolerance for UL MIMO**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1744 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

comment from R&S.

r1

**Decision:** The document was **revised to R5-223811**.

**R5-223811 Editorial correction to test requirement of Aggregate power tolerance for UL MIMO**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1744 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223141)

**Decision:** The document was **agreed**.

**R5-223238 Update 6.2.3 for additional maximum power reduction**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1752 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

The test purpose in 6.2.3.1 for Edge RB allocation A-MPR should be added.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223812**.

**R5-223812 Update 6.2.3 for additional maximum power reduction**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1752 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223238)

**Decision:** The document was **agreed**.

##### 5.4.4.2 Rx Requirements (Clause 7)

**R5-222200 Removing the empty space in the table number of Table 7.3.2.3-1a and correct the style of table title of Table 7.3.2.3-1b**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1617 Cat: F (Rel-17)  
  
 Source: CAICT*

**Abstract:**

Editorial

**Decision:** The document was **agreed**.

**R5-222337 Editorial correction in Test IDs in FR1 test case 7.5A.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1655 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Editorial

**Decision:** The document was **agreed**.

**R5-222338 Corrections for n50 and n79 in FR1 test case 7.3.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1656 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222449 Correction of REFSENS test case for n71 and CBW 10 15 and 30 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1668 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Anritsu: The RBstart values for n71 were changed to locate UL RBs at the upper edge of the UL channel. However, UL channel is higher than DL channel. The Note 1 requests to locate UL RBs as close as possible to DL, so we think UL RBs need to be located at the lower edge of the UL channel.

**Decision:** The document was **withdrawn**.

**R5-222540 Correction of REFSENS test case for n66 and CBW 40 MHz**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1674 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222545 Clarification of BCS in test configuration of CA test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1675 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223813**.

**R5-223813 Clarification of BCS in test configuration of CA test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1675 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222545)

**Decision:** The document was **agreed**.

**R5-222997 Removal of brackets for DCI for Rx test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1725 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223124 Updating minimum requirement for 7.6A.3 OOB for CA testing**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1731 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

##### 5.4.4.3 Clauses 1-5, Annexes

**R5-222339 Editorial corrections for FR1 in annex F.1.2**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1657 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Editorial

**Decision:** The document was **agreed**.

**R5-222857 Updates of clause 5 for R15 bands and CBW configurations**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1706 Cat: F (Rel-17)  
  
 Source: China Unicom, Bureau Veritas, Anritsu*

**Decision:** The document was **agreed**.

#### 5.4.5 TS 38.521-2

##### 5.4.5.1 Tx Requirements (Clause 6)

**R5-222198 Correction of table numbers in 6.2D.2.5**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0720 Cat: F (Rel-16)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222199 Correction of Test Environment for UL MIMO MPR test case**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0721 Cat: F (Rel-16)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222341 FR2 SA EVM test case update based on TT analysis**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0722 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

discussion paper in R5-222340

**Discussion:**

Author confirmed no overlap/conflict

5/17: Moderator (AT&T): Given that there was no agreement on the corresponding discussion paper, this CR can be given a final Tdoc number and withdrawn as confirmed by the proponent over email.

Author confirmed withdrawn

**Decision:** The document was **withdrawn**.

**R5-222437 Rel-15 MPR updates**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0724 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

**Discussion:**

overlap with R5-222488

r1

**Decision:** The document was **revised to R5-223814**.

**R5-223814 Rel-15 MPR updates**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0724 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222437)

**Decision:** The document was **agreed**.

**R5-222443 Common Uplink Configuration updates for Rel-15 FR2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0725 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

**Abstract:**

This CR depends on R5-222436.

**Discussion:**

r1

**Decision:** The document was **revised to R5-223815**.

**R5-223815 Common Uplink Configuration updates for Rel-15 FR2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0725 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222443)

**Decision:** The document was **agreed**.

**R5-222488 Editorial correction for Tx test cases**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0731 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222496 Correction to DCI format in singnal quality TCs**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0732 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223816**.

**R5-223816 Correction to DCI format in singnal quality TCs**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0732 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222496)

**Decision:** The document was **agreed**.

**R5-222544 Update of A-MPR and A-SE test cases**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0733 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222879 Update to FR2 6.2.3 A-MPR**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0736 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Discussion:**

wrong AI

**Decision:** The document was **agreed**.

**R5-222880 Update to TT of beam correspondance**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0737 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Discussion:**

HW: Offline feedback from KS.

E///: Similar comment as KS. At the last meeting, we concluded that the impact of noise can be removed. We still think that it is a single-sided measurement.

KS: Beam correspondence is done in points passing spherical coverage. Noise impact will not be as bad.

Moderator (AT&T): Agree that the impact of noise was discussed across two meetings and confirmed at the last meeting. Encourage further email discussion on the thread started by KS to see if any compromise can be determined.

5/16 FR2 MU GTM#2:

Moderator (AT&T): Based on Orange proposal shared over email, the following WF is proposed.

"Any proposal to change to MU and TT calculations to the RAN5 specifications should be accompanied by a discussion paper explaining the reason for the changes."

HW: Agree that this CR can be withdrawn.

R&S: Can we restrict this proposal to FR2?

Orange: Haven't seen any changes for FR1 case for 3-4 meetings. We can keep this proposal to FR2 for now. However, it is good to bring a discussion paper for any similar change in e-meeting setting.

Moderator (AT&T): The following WF is endorsed. Work offline to determine if we need to capture in a Tdoc. This CR is withdrawn based on confirmation from HW over email and at the GTW.

"Any proposal to change to MU and TT calculations to the RAN5 specifications for FR2 should be accompanied by a discussion paper explaining the reason for the changes."

Keysight Spain:

- In the reason for change in this CR it is indicated that the reason to define TT = 0.60 x MTSUIFF instead of TT = 0.60 x (MTSUIFF - ΔSNRmr) is that the beam correspondence is not a single-sided requirement. When comparing the EIRP1 and EIRP2, the measurement error in both higher or lower direction might lead to UE failure.

- We also need to think in the nature of the beam correspondence measurement itself, where we will be substracting 2 measurements performed one with UL beam sweeping and the second without UL beam sweeping. These measurements will only be ran in grid points passing the spherical coverage requirement, i.e, far away from the noise floor. We could see current TT = 0.60 x (MTSUIFF - ΔSNRmr) as the way to show that the impact of the noise floor will cancel out among these 2 measurements.

Orange France: highlighting that TT is very sensitive RAN5 topic and very important for operators.

Any change to TT calculation into the specification without providing a discussion paper is very had to follow in e-meeting conditions and increase the number of offline discussions and emails exchanges.

We would like to propose a WF to the group that “Any proposal to change to MU and TT calculations to the RAN5 specifications should be accompanied by a discussion paper explaining the reason for the changes”.

FR2 MU Convenor (AT&T): Huawei confirmed that the CR can be withdrawn based on the way forward proposed by Orange concerning CRs that are proposing changes to existing MU and TT calculations. Companies were in agreement that any proposal to change to MU and TT calculations to the RAN5 specifications for FR2 should be accompanied by a discussion paper explaining the reason for the changes.

**Decision:** The document was **withdrawn**.

**R5-223030 Implement test function approach to limit Pcell Power in FR2 UL-CA tests**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0739 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

Based on endorsed draftCR R5-221922 from RAN5#94e

**Discussion:**

RAN5 Vice Chair RF: TEI15\_Test, 5GS\_NR\_LTE-UEConTest!

r2

Apple: Introduced clarification in the test procedure clause to followup on guidance received from RAN5 leadership to ensure the test procedure clearly differentiates and applies the UPLF test mode to Rel16 and forward UE’s with the procedure for Rel15 UEs marked FFS.

Rohde&Schwarz: We think that we should consider to update the applicability of the TC to Rel-16 until test of a Rel-15 UE becomes possible. In this way, unnecessary execution of the test case can be avoided.

With current test definition it is ambiguous what verdict applies for a Rel-15 UE, when the test procedure steps are skipped.

Ericsson: there is one thing we would like to see added in the test procedure. The UPLF test mode is intending to prevent Scell from dropping, but there is no verification of how the UE transmitter reacts to this command. We are just telling the UE it is running UL CA Tx conformance tests and can do whatever it sees fit to pass the tests.

It would therefore be desirable to in the test procedure add a step that check that the Scell is still transmitting. Otherwise the UE can safely still drop the Scell which will make it easier for the UE to pass CA MPR and CA ACLR test cases.

Apple: We believe there is already mechanism in place to verify check when SCell drops which I believe is how this issue was detected in the first place in lab testing. Specifically, the UE is expected to send an NR SCG failure upon SCell drop which was seen right after the TPC up commands were sent to PCell to drive it up to Pumax. One option is along the ines of using UL power based checks - an approach used in some RRM tests is to very the UL power is at least above min output power or Tx OFF power. However, that is not an option and/or complicated in FR2 RF tests since we have testability issues for those scenarios. In short, I think the TE implementations do handle checks for the scenario you are pointing out. It will be useful to receive feedback from TE vendor experts on the same. So while our initial response is this change may not be needed, we are open to gathering more feedback and discussing need for any enhancements to the test procedure, if needed, in the next meeting.

r3

**Decision:** The document was **revised to R5-223817**.

**R5-223817 Implement test function approach to limit Pcell Power in FR2 UL-CA tests**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0739 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223030)

**Decision:** The document was **agreed**.

**R5-223142 Editorial correction to test requirement of FR2 test cases**

*Type: CR For: Agreement  
 38.521-1 v17.4.0 CR-1745 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

wrong AI and spec cover -2! reissued as R5-223292 because of wrong spec.

**Decision:** The document was **withdrawn**.

**R5-223292 Editorial correction to test requirement of FR2 test cases**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0761 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Abstract:**

reissued from R5-223142 because of wrong spec.

**Discussion:**

comment from R&S.

r1

**Decision:** The document was **revised to R5-223821**.

**R5-223821 Editorial correction to test requirement of FR2 test cases**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0761 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-223292)

**Decision:** The document was **agreed**.

**R5-223230 Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0750 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

The description of multi-band relaxation factors for Rel-15 PC3 UE is unclear.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223818**.

**R5-223818 Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0750 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces R5-223230)

**Decision:** The document was **agreed**.

**R5-223258 Correction of FR2 MOP and beam correspondence test cases**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0752 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-223272 Change FR2 SEM verification test metric**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0753 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

RAN4#103-e t-doc

R4-2207675 draftCR

**Discussion:**

r1

RAN4 dependent CR in R4-2207675 postponed at the ongoing RAN4#103e.

w/d

**Decision:** The document was **revised to R5-223640**.

**R5-223640 Change FR2 SEM verification test metric**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0753 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223272)

**Decision:** The document was **withdrawn**.

**R5-223281 Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests**

*Type: CR For: Agreement  
 38.521-2 v15.4.0 CR-0756 Cat: F (Rel-15)  
  
 Source: Qualcomm Finland RFFE Oy*

**Abstract:**

Implements proposals agreed in RAN5#94e discussion paper R5-221319 -> Endorsed (P1, P2->Option 1, P3).

**Decision:** The document was **withdrawn**.

**R5-223283 Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0757 Cat: F (Rel-16)  
  
 Source: QUALCOMM JAPAN LLC.*

**Abstract:**

Implements proposals agreed in RAN5#94e discussion paper R5-221319 -> Endorsed (P1, P2->Option 1, P3).

**Discussion:**

r1

**Decision:** The document was **revised to R5-223820**.

**R5-223820 Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0757 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM JAPAN LLC.*

(Replaces R5-223283)

**Decision:** The document was **agreed**.

**R5-223600 Update to FR2 UL CA MPR test case 6.2A.2.1 to prevent SCell drop by using UE PHR**

*Type: draftCR For: discussion  
 38.521-2 v16.11.0  
 Source: Ericsson*

**Abstract:**

associated discussion paper R5-223300

**Discussion:**

late doc

r1

R&S: Since we could not confirm the feasibility of the PHR method in this meeting, it should not be approved. Will try our best to provide this information to next RAN5 meeting.

Ericsson: agreed with R&S. It can be revisited next meeting once the TE implementation feasibility is studied.

**Decision:** The document was **revised to R5-223647**.

**R5-223647 Update to FR2 UL CA MPR test case 6.2A.2.1 to prevent SCell drop by using UE PHR**

*Type: draftCR For: discussion  
 38.521-2 v16.11.0  
 Source: Ericsson*

(Replaces R5-223600)

**Decision:** The document was **not pursued**.

##### 5.4.5.2 Rx Requirements (Clause 7)

##### 5.4.5.3 Clauses 1-5, Annexes

**R5-222342 Beam peak search - re-positioning formula correction**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0723 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222478 Update FR2 TRx MU in 38.521-2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0728 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Abstract:**

Discussion paper in R5-222477

**Discussion:**

was wrong WIC & AI.

r1

In this CR, you are making the following assumptions for the MTSU for MOP and REFSENS test cases:

• The 40cm QoQZ MU is 0.3dB higher than that of the 30cm QoQZ MU, i.e., you are using the following as underlying QoQZ MU

• More importantly, for the 40cm QZ, you are proposing to leverage the ETC MU for the NTC & ETC test cases of MOP and REFSENS (which is why the NTC rows are crossed out above). It is not clear why you are proposing to change the framework for 40cm QZ, i.e., the ETC MU applies to ETC and NTC test cases, while for 30cm QZ, the NTC MU applies to NTC test cases and the ETC MU applies only to ETC test cases. We feel that we unnecessarily increase the MU for 40cm QZ this way

• The tables in Annex F should not state “Max Device size ≤ 40 cm” as this statement could be interpreted as the following MTSUs apply to cases when the Max Device size is ≤ 30cm as well. It is suggested to change to: “30 cm < Max Device size ≤ 40 cm”

5/10: Offline discussions are occurring.

5/16: Moderator (AT&T): Given that there was no agreement on the corresponding discussion paper, this CR can be given a final Tdoc number and withdrawn if confirmed by the proponent.

unless otherwise requested by authors to reopen the discussions , t-docs tagged as ‘could be withdrawn’ will be given a verdict of ‘withdrawn’, with final t-doc as applicable, by May17 RF MH

r2

5/17: Moderator (AT&T): Anritsu notified by email that they need the CR to fix other editorial issues. Given that the 40cm QoQZ aspects have been removed in this revision and there were no other comments on the other contents of the CR, the CR can be given a final Tdoc number and provisionally agreed.

Revised to: R5-223617.

**Decision:** The document was **revised to R5-223617**.

**R5-223617 Update FR2 TRx MU in 38.521-2**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0728 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222478)

**Decision:** The document was **agreed**.

**R5-222483 Editorial correction in Annex**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0730 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223824**.

**R5-223824 Editorial correction in Annex**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0730 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222483)

**Decision:** The document was **agreed**.

**R5-222552 Correction of TRP Measurement Grids**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0734 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

late doc

feedback from R&S

r1

**Decision:** The document was **revised to R5-223825**.

**R5-223825 Correction of TRP Measurement Grids**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0734 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222552)

**Decision:** The document was **agreed**.

**R5-222556 CR on applicability per permitted test method**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0735 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Discussion paper in TDOC #-2

**Discussion:**

2 files; cl. aff., R5

r2

**Decision:** The document was **revised to R5-223826**.

**R5-223826 CR on applicability per permitted test method**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0735 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222556)

**Decision:** The document was **agreed**.

**R5-223039 Correction to FR2 DL RMCs**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0743 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

RAN4 spec alignment

**Discussion:**

was wrong AI

+5GS!

r1

**Decision:** The document was **revised to R5-223827**.

**R5-223827 Correction to FR2 DL RMCs**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0743 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223039)

**Decision:** The document was **agreed**.

**R5-223041 Initial introduction of fast spherical coverage test method**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0744 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

TR 38.884 alignment

**Discussion:**

Keysight Spain: - You are adding an editors note indicating that Analysis of MU impact is FFS. Taking into account the nature of the fast spherical coverage test method definition, I could think that there was no impact on the Measurement Uncertainty. Could you please share your thoughts on which type of analysis should be carried out to remove this editor’s note?

- I guess the text added is mainly a copy&paste from TR 38.884 and I think most of the references needs to be probably removed as they point out to 38.521-2.

Ericsson: As far as I can see the improvement is mainly an early pass criteria. Then it might be worth considering to just add a new optional step instead of a whole new procedure.

r1

Qualcomm: in general we agree with Ericsson’s view below. Wedo not see need for this new section. As such this is just a statistical early pass criteria. So we vote for simple note instead of new section.

As such a TE vendor or an OEM can do this regardless too with or without this being in the spec and I question the need to specify this at all in the spec, but we are OK to keep a note or a small subsection in annex K.

R&S: We have a different view and cannot agree to your proposal. It is important to include the fast spherical procedure in order to explicitly allow this method to be used by test systems. In our view, without the addition in the spec, test case implementation has to follow closely the test specification and it is not allowed to deviate, i.e., all test systems shall do full spherical scan if the early pass fail method is not explicitly allowed by test specification. Therefore, the addition of the section is crucial to enable the saving of test time.

**Decision:** The document was **revised to R5-223828**.

**R5-223828 Initial introduction of fast spherical coverage test method**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0744 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223041)

**Decision:** The document was **agreed**.

**R5-223042 Initial introduction of RSRP-B based Rx Peak Beam Search**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0745 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

TR 38.884 alignment

**Discussion:**

Keysight Spain: We have a couple of comments/requests:

- We think that last sentence should be further elaborated so the test specification is fully contained. Probably it could be replaced by:

To guarantee RSRP(B) accuracy, SNR side condition configuration can refer to the minimum SSB\_RP specified for beam correspondence defined in Table K.1.11.1-1 (from TS 38.101-2 [3] table 6.6.4.3.1-1).

- Regarding the sentence “The RX beam peak direction search grid points for this single grid approach are defined in Clause 8.2”. It is a bit misleading as Clause 8.2 in TR 38.884 only refers to new measurement grids based on 4x2 antenna pattern assumption and this might not be applicable for a given UE.

Should we refer to Annex M.2 in 38.521-2 instead assuming the test method is also applicable for different antenna configurations?

- References cleanup is required.

Probably a new MU systematic error might be needed to account for RSRPB accuracy under >=6 dB SNR conditions. This accuracy has not been defined so far in RAN4 as far as we know. Any views o this? Would it be worthy to send an LS to RAN4 to ask for clarification?

Ericsson: The procedure seems copied directly from the RAN4 TR and need to be reworded, especially step 4.

r1

**Decision:** The document was **revised to R5-223829**.

**R5-223829 Initial introduction of RSRP-B based Rx Peak Beam Search**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0745 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223042)

**Decision:** The document was **agreed**.

**R5-223043 Initial introduction of Enhanced EIRP measurement method**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0746 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

**Abstract:**

TR 38.884 alignment

**Discussion:**

Keysight Spain:

1. References, table numbering and section numbering highlighted in yellow below require an update.

2.2. It should be clarified at the end of the applicability of TPMI side condition method section, which UE capabilities and values are the ones that define a coherent UE (Is it pusch-TransCoherence capability? In case yes, is only the full-coherent value of the capability the one that defines a coherent UE or also the partial coherent values?)

As far as we understand, coherence transmissions are not tested nowadays in 38.521-2 (according to default codebookSubset used in PUSCH-Config IE). We will probably need to discuss whether a device supporting pusch-TransCoherence needs to be tested using and w/o using this capability. Is this also part of the applicability discussions?

3. In the applicability of TPMI side condition method section, it is indicated that “In FR2, dual polarization can be regarded as dual antenna ports, so it is natural to activate dual polarization transmission with TPMI side condition in EIRP measurement procedure”. The question in here is can be this test method applicable to any EIRP measurement (ones included in beam peak search procedure, EIRP spherical coverage, Maximum output power – EIRP, any TRP measurement (composed of multiple EIRP measurements), ACLR, etc.)? Is that one of the topics to be discussed before removing the editor’s note “Applicability of this enhanced method is FFS”? Any views on this?

4. Will the applicability of TPMI test method to Rel-16 UE supporting UL full power transmission mode 1 be automatically covered by enhanced MIMO WI?

r1

**Decision:** The document was **revised to R5-223830**.

**R5-223830 Initial introduction of Enhanced EIRP measurement method**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0746 rev 1 Cat: F (Rel-16)  
  
 Source: Apple Portugal*

(Replaces R5-223043)

**Decision:** The document was **agreed**.

**R5-223232 Correction to A.2.3 and A.3.3 for UL and DL RMCs**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0751 Cat: F (Rel-16)  
  
 Source: ZTE Corporation, Anritsu*

**Abstract:**

The texts in clause A.2.3 for reference measurement channels for TDD are in disorder and should be corrected.

**Discussion:**

WIC changed

the overlapping changes in section A.2.3 in R5-222483 (Anritsu) were merged into this CR.

r1

**Decision:** The document was **revised to R5-223831**.

**R5-223831 Correction to A.2.3 and A.3.3 for UL and DL RMCs**

*Type: CR For: Agreement  
 38.521-2 v16.11.0 CR-0751 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation, Anritsu*

(Replaces R5-223232)

**Decision:** The document was **agreed**.

#### 5.4.6 TS 38.521-3

##### 5.4.6.1 Tx Requirements (Clause 6)

**R5-222193 Correction of Transmitter power test requirements for EN-DC within FR1**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1336 Cat: F (Rel-17)  
  
 Source: CAICT*

**Discussion:**

r2

comments from Ericsson.

**Decision:** The document was **revised to R5-223833**.

**R5-223833 Correction of Transmitter power test requirements for EN-DC within FR1**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1336 rev 1 Cat: F (Rel-17)  
  
 Source: CAICT*

(Replaces R5-222193)

**Decision:** The document was **agreed**.

**R5-222195 Correction of test requirement of 6.2B.2.1**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1338 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222196 Separation of 6.2B.1.4D into two test cases**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1339 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222197 Correction of clause numbers in 6.2B.1.3a**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1340 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222343 FR2 NSA EVM test case editor notes update**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1352 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

discussion paper in R5-222340

**Discussion:**

5/17: Moderator (AT&T): Given that there was no agreement on the corresponding discussion paper, this CR can be given a final Tdoc number and withdrawn as confirmed by the proponent over email.

**Decision:** The document was **withdrawn**.

**R5-222344 6.6B.4 Beam Correspondence test case editor note update**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1353 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

**R5-222423 Editorial correction for 6.3B.8 Power control for EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1357 Cat: F (Rel-17)  
  
 Source: TTA*

**Abstract:**

Editorial

**Discussion:**

5GS!

r1

**Decision:** The document was **revised to R5-223834**.

**R5-223834 Editorial correction for 6.3B.8 Power control for EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1357 rev 1 Cat: F (Rel-17)  
  
 Source: TTA*

(Replaces R5-222423)

**Decision:** The document was **agreed**.

**R5-222438 Clarifications on Common Uplink Configuration updates**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1358 Cat: F (Rel-17)  
  
 Source: Keysight technologies UK Ltd*

**Discussion:**

cover spec -2!

r1

**Decision:** The document was **revised to R5-223835**.

**R5-223835 Clarifications on Common Uplink Configuration updates**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1358 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222438)

**Decision:** The document was **agreed**.

**R5-222484 Editorial correction in 6.2B.4.1.3**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1362 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222486 Correction about test configuration in 6.5B.3.3.2**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1363 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Discussion:**

conflict with R5-222747.

**Decision:** The document was **agreed**.

**R5-222700 Editorial correction to EN-DC test cases**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1367 Cat: F (Rel-17)  
  
 Source: Bureau Veritas*

**Decision:** The document was **agreed**.

**R5-222881 Adding missing configurations in SE co-ex Rel-17 table**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1384 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223836**.

**R5-223836 Adding missing configurations in SE co-ex Rel-17 table**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1384 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

(Replaces R5-222881)

**Decision:** The document was **agreed**.

##### 5.4.6.2 Rx Requirements (Clause 7)

**R5-222487 Correction to title of 7.6B.2.4 and editorial correction for Rx test cases**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1364 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222743 Update for 7.3B.2.0 Min Requirements of Ref sensitivity for EN-DC**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1379 Cat: F (Rel-17)  
  
 Source: Qualcomm Israel Ltd.*

**Discussion:**

5GS added.

**Decision:** The document was **agreed**.

##### 5.4.6.3 Clauses 1-5, Annexes

**R5-222345 MU and TT definition and clean up in 38.521-3 annex F**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1354 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

Author confirmed no overlap/conflict

5/16: Moderator (AT&T): No comments received. This CR can be provisionally agreed.

**Decision:** The document was **agreed**.

**R5-222702 Update to R15 common part and DC configurations in clause 5**

*Type: CR For: Agreement  
 38.521-3 v17.4.0 CR-1368 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Rohde & Schwarz*

**Decision:** The document was **agreed**.

#### 5.4.7 TS 38.521-4

##### 5.4.7.1 Conducted Demod Performance and CSI Reporting Requirements (Clauses 5&6)

**R5-222501 Correction to the referecne of test frequency**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0512 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Discussion:**

conflict with R5-223048.

r1

**Decision:** The document was **revised to R5-223837**.

**R5-223837 Correction to the referecne of test frequency**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0512 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222501)

**Decision:** The document was **agreed**.

**R5-222541 Clarification of UL RMC in FR1 PMI test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0513 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

the modulation of the UL RMC has been changed from DTF-s-OFDM to CP-OFDM in order to avoid the message exception associated with DFT-s-OFDM.

r1

**Decision:** The document was **revised to R5-223838**.

**R5-223838 Clarification of UL RMC in FR1 PMI test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0513 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222541)

**Decision:** The document was **agreed**.

**R5-222549 Update of LTE-NR coexistence test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0515 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Associated discussion paper in R5-222548

**Discussion:**

r1

**Decision:** The document was **revised to R5-223839**.

**R5-223839 Update of LTE-NR coexistence test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0515 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222549)

**Decision:** The document was **agreed**.

**R5-222595 Correction to demod test case procedure**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0524 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **agreed**.

**R5-223024 Update of FR1 RI reporting test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0547 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-223048 Removal of duplicate clauses from the Demod spec**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0548 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **agreed**.

##### 5.4.7.2 Radiated Demod Performance and CSI Reporting Requirements (Clauses 7&8)

**R5-222546 Update of FR2 test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0514 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Update of TS 38.522 in CR R5-222994

**Discussion:**

r2

**Decision:** The document was **revised to R5-223840**.

**R5-223840 Update of FR2 test cases**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0514 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222546)

**Decision:** The document was **agreed**.

**R5-222588 Introduction of FR2 SDR test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0522 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223841**.

**R5-223841 Introduction of FR2 SDR test case**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0522 rev 1 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222588)

**Decision:** The document was **agreed**.

**R5-222590 FR2 demod testability update**

*Type: CR For: Agreement  
 38.521-4 v16.11.0 CR-0523 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Abstract:**

AP#89e.23

Dependent on disc paper R5-222589

**Discussion:**

5/16: Moderator (AT&T): Given that there was no agreement on the corresponding discussion paper, this CR can be withdrawn if confirmed by the proponent.

**Decision:** The document was **withdrawn**.

##### 5.4.7.3 Interworking Demod Performance and CSI Reporting Requirements (Clauses 9&10)

##### 5.4.7.4 Clauses 1-4, Annexes

#### 5.4.8 TS 38.522

**R5-222190 Correction of test applicability for 6.4.2.5 of 38.521-1**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0159 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222191 Separation of 6.2B.1.4D of 38.521-3 into two test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0160 Cat: F (Rel-17)  
  
 Source: CAICT*

**Decision:** The document was **agreed**.

**R5-222424 Correction to applicability for 6.2D.1.1 and 6.2D.1.2 of 38.521-2**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0161 Cat: F (Rel-17)  
  
 Source: TTA*

**Discussion:**

5GS!

r1

**Decision:** The document was **revised to R5-223842**.

**R5-223842 Correction to applicability for 6.2D.1.1 and 6.2D.1.2 of 38.521-2**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0161 rev 1 Cat: F (Rel-17)  
  
 Source: TTA*

(Replaces R5-222424)

**Decision:** The document was **agreed**.

**R5-222696 Correction to test bands selection criteria for UL MIMO capabilities**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0167 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Huawei, HiSilicon*

**Abstract:**

Corresponding TS38.508-2 in CR R5-222695

**Discussion:**

r1

**Decision:** The document was **revised to R5-223843**.

**R5-223843 Correction to test bands selection criteria for UL MIMO capabilities**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0167 rev 1 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Huawei, HiSilicon*

(Replaces R5-222696)

**Decision:** The document was **agreed**.

**R5-222701 Correction to applicability of 5G test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0168 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Rohde & Schwarz*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223844**.

**R5-223844 Correction to applicability of 5G test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0168 rev 1 Cat: F (Rel-17)  
  
 Source: Bureau Veritas, Rohde & Schwarz*

(Replaces R5-222701)

**Decision:** The document was **agreed**.

**R5-222961 Complete L1-RSRP FR2 tests**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0174 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

merged into R5-222701r1

**Decision:** The document was **withdrawn**.

**R5-222994 Update of applicability of FR2 performance test**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0177 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Update of test case in CR R5-222546

**Decision:** The document was **agreed**.

**R5-223118 Correction on test condition for FR2 DL 256QAM test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0180 Cat: F (Rel-17)  
  
 Source: China Telecom*

**Discussion:**

TEI16 missing on cover

r2

**Decision:** The document was **revised to R5-223845**.

**R5-223845 Correction on test condition for FR2 DL 256QAM test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0180 rev 1 Cat: F (Rel-17)  
  
 Source: China Telecom*

(Replaces R5-223118)

**Decision:** The document was **agreed**.

**R5-223219 Addition to 3.3 for new abbreviations in TS 38.522**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0185 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Add the missing abbreviations in TS 38.522.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223846**.

**R5-223846 Addition to 3.3 for new abbreviations in TS 38.522**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0185 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223219)

**Decision:** The document was **agreed**.

**R5-223221 Correction to 4.0 on Tested CA DC configuration selection criteria for E005a, E010 and E010a**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0186 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Correct the tested CA configuration selection criteria for E005a, E010 and E010a in Table 4.0-3.

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223847**.

**R5-223847 Correction to 4.0 on Tested CA DC configuration selection criteria for E005a, E010 and E010a**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0186 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223221)

**Decision:** The document was **agreed**.

**R5-223235 Editorial correction to A.4.0 for Tested bands selection criteria**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0187 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Editorial correction to A.4.0 for Tested bands selection criteria

**Discussion:**

WIC changed

r1

**Decision:** The document was **revised to R5-223848**.

**R5-223848 Editorial correction to A.4.0 for Tested bands selection criteria**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0187 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-223235)

**Decision:** The document was **agreed**.

**R5-223254 Update of applicability of FR2 RF test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0188 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223849**.

**R5-223849 Update of applicability of FR2 RF test cases**

*Type: CR For: Agreement  
 38.522 v17.4.0 CR-0188 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-223254)

**Decision:** The document was **agreed**.

#### 5.4.9 TS 38.533

##### 5.4.9.1 EN-DC with all NR cells in FR1 (Clause 4)

**R5-222506 Correction to Active UL BWP-2 Configuration in 4.5.6.1.1 and 6.5.6.1.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1759 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Abstract:**

depends on the RAN4 draftCR R4-2207648

**Discussion:**

r1

**Decision:** The document was **revised to R5-223874**.

**R5-223874 Correction to Active UL BWP-2 Configuration in 4.5.6.1.1 and 6.5.6.1.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1759 rev 1 Cat: F (Rel-17)  
  
 Source: Anritsu*

(Replaces R5-222506)

**Discussion:**

NOT uploaded past meeting deadline

**Decision:** The document was **agreed**.

**R5-222522 Remove incorrect references - Chapter 4**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1769 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222530 Corrections to 4.7.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1777 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223850**.

**R5-223850 Corrections to 4.7.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1777 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222530)

**Decision:** The document was **agreed**.

**R5-222536 Editorial correction 4.5.5.x**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1783 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Editorial CR

**Decision:** The document was **agreed**.

**R5-222538 Corrections to 4.5.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1784 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223851**.

**R5-223851 Corrections to 4.5.5.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1784 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222538)

**Decision:** The document was **agreed**.

**R5-222539 Corrections to 4.5.5.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1785 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223852**.

**R5-223852 Corrections to 4.5.5.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1785 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222539)

**Discussion:**

wrong zip

**Decision:** The document was **revised to R5-223870**.

**R5-223870 Corrections to 4.5.5.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1785 rev 2 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-223852)

**Decision:** The document was **agreed**.

**R5-222593 Update to FR1 Scell activation and deactivation test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1789 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Abstract:**

draftCR R4-2207948, R4-2207951, R4-2207941

**Discussion:**

r2

**Decision:** The document was **revised to R5-223886**.

**R5-223886 Update to FR1 Scell activation and deactivation test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1789 rev 1 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222593)

**Decision:** The document was **agreed**.

**R5-222636 Correction to FR1 EN-DC TC 4.7.5.1 - SFTD**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1792 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222959 Remove condition asynchronous cells**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1808 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223853**.

**R5-223853 Remove condition asynchronous cells**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1808 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222959)

**Decision:** The document was **agreed**.

**R5-223214 Editorial correction to 5G RRM TCs**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1835 Cat: F (Rel-17)  
  
 Source: Bureau Veritas*

**Decision:** The document was **agreed**.

##### 5.4.9.2 NE-DC with all NR cells in FR1 (Clause 4A)

##### 5.4.9.3 EN-DC with at least 1 NR Cell in FR2 (Clause5)

**R5-222182 Correction to EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX including TT**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1750 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Abstract:**

1) Core spec alignment of TC 5.5.1.5, 5.5.1.6 to resolve the testability issue under 2AoA conditions.

2) TT is specified for EN-DC FR2 RLM with CSI-RS-based RLM RS in non-DRX mode (5.5.1.5, 5.5.1.6)

aligned with TS38.133 v15.17.0 Tables A.5.5.1.5.1-2, A.5.5.1.6.1-2

Associated CR for 38.903: R5-222183

**Discussion:**

r1

**Decision:** The document was **revised to R5-223607**.

**R5-223607 Correction to EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX including TT**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1750 rev 1 Cat: F (Rel-17)  
  
 Source: Anritsu*

(Replaces R5-222182)

**Decision:** The document was **agreed**.

**R5-222504 Correction to CSI-RS for tracking in 5.6.1.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1757 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Abstract:**

RAN4#103-e R4-2209609

**Discussion:**

r1

**Decision:** The document was **revised to R5-223854**.

**R5-223854 Correction to CSI-RS for tracking in 5.6.1.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1757 rev 1 Cat: F (Rel-17)  
  
 Source: Anritsu*

(Replaces R5-222504)

**Decision:** The document was **agreed**.

**R5-222505 Correction to test parameters in 5.6.1.x and 5.6.2.x**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1758 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222515 Completing 5.7.4.1 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1763 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223615**.

**R5-223615 Completing 5.7.4.1 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1763 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222515)

**Decision:** The document was **agreed**.

**R5-222516 Completing 5.7.4.2 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1764 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223855**.

**R5-223855 Completing 5.7.4.2 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1764 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222516)

**Decision:** The document was **agreed**.

**R5-222523 Remove incorrect references - Chapter 5**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1770 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222533 Corrections to 5.6.1.3**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1780 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222534 Corrections to 5.6.1.4**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1781 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222594 Update to FR2 interruption test case 5.5.2.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1790 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223856**.

**R5-223856 Update to FR2 interruption test case 5.5.2.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1790 rev 1 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222594)

**Decision:** The document was **agreed**.

**R5-222637 Correction to FR2 EN-DC BFD TCs**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1793 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223857**.

**R5-223857 Correction to FR2 EN-DC BFD TCs**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1793 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222637)

**Decision:** The document was **agreed**.

**R5-222962 Corrections AoA setup references**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1810 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222963 Editorial - Remove empty tables from 5.5.5.x tests**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1811 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Editorial CR

**Discussion:**

fully contained in R5-222637.

**Decision:** The document was **withdrawn**.

##### 5.4.9.4 NR Standalone in FR1 (Clause 6)

**R5-222524 Remove incorrect references - Chapter 6**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1771 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222527 Corrections to 6.6.3.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1774 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222638 Correction to FR1 NR SA TCs 6.1.2.2 - low priority reselection**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1794 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Abstract:**

RAN4 draft CR R4-2208906

**Discussion:**

RAN4 draftCR endorsed.

**Decision:** The document was **agreed**.

**R5-222960 Corrections to 6.6.3.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1809 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223858**.

**R5-223858 Corrections to 6.6.3.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1809 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222960)

**Decision:** The document was **agreed**.

##### 5.4.9.5 NR standalone with at least one NR cell in FR2 (Clause7)

**R5-222328 Editorial reference correction to NR SA FR2 cell re-selection test requirements**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1751 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223859**.

**R5-223859 Editorial reference correction to NR SA FR2 cell re-selection test requirements**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1751 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222328)

**Decision:** The document was **agreed**.

**R5-222517 Add minimum requirements for 7.7.4**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1765 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222518 Completing 7.7.4.1 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1766 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223616**.

**R5-223616 Completing 7.7.4.1 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1766 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222518)

**Decision:** The document was **agreed**.

**R5-222519 Completing 7.7.4.2 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1767 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223860**.

**R5-223860 Completing 7.7.4.2 including TT analysis**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1767 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222519)

**Decision:** The document was **agreed**.

**R5-222525 Remove incorrect references - Chapter 7**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1772 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222639 Correction to FR2 NR SA BFD TCs**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1795 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223861**.

**R5-223861 Correction to FR2 NR SA BFD TCs**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1795 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222639)

**Decision:** The document was **agreed**.

**R5-222964 Corrections 7.6.3.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1812 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222965 Corrections 7.6.3.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1813 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222966 Corrections 7.6.3.3**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1814 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222967 Corrections 7.6.3.4**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1815 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-223169 Correction of RRM test case 7.7.1.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1831 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR corresponding to the discussion on large UE gain range

**Discussion:**

r1

**Decision:** The document was **revised to R5-223862**.

**R5-223862 Correction of RRM test case 7.7.1.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1831 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223169)

**Decision:** The document was **agreed**.

##### 5.4.9.6 E-UTRA – NR Inter-RAT with E-UTRA serving cell (Clause 8)

**R5-222494 Correction to test procedure in 8.5.1.1**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1756 Cat: F (Rel-17)  
  
 Source: Anritsu*

**Decision:** The document was **agreed**.

**R5-222526 Remove incorrect references - Chapter 8**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1773 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222528 Corrections to 8.4.1.2**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1775 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222531 Clean-up asynchronous / synchronous cells conditions for IRAT**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1778 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222640 Correction to inter-RAT TC 8.5.1.1 - SFTD**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1796 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

##### 5.4.9.7 Clauses 1-3, Annexes

**R5-222520 Annex F for L1-RSRP meas accuracy test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1768 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

filename +

r1

**Decision:** The document was **revised to R5-223863**.

**R5-223863 Annex F for L1-RSRP meas accuracy test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1768 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222520)

**Decision:** The document was **agreed**.

**R5-222529 Modification to the asynchronous / synchronous cells conditions**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1776 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222532 Editorial correction to H.3.4-5**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1779 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Editorial CR

**Decision:** The document was **agreed**.

**R5-222535 Correction to H.3.4-7**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1782 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222592 Alignment of RMC note for DRX test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1788 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Discussion:**

cl.aff.

r1

**Decision:** The document was **revised to R5-223864**.

**R5-223864 Alignment of RMC note for DRX test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1788 rev 1 Cat: F (Rel-17)  
  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222592)

**Decision:** The document was **agreed**.

**R5-223246 Correction to Annexes for RRM SCell activation test cases**

*Type: CR For: Agreement  
 38.533 v17.2.0 CR-1836 Cat: F (Rel-17)  
  
 Source: Bureau Veritas*

**Decision:** The document was **agreed**.

#### 5.4.10 TS 36.508

#### 5.4.11 TS 36.521-3

#### 5.4.12 TS 37.571-1

#### 5.4.13 TS 37.571-3

#### 5.4.14 TS 37.571-5

#### 5.4.15 TR 38.903 ((NR MU & TT analyses)

**R5-222183 Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0306 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Abstract:**

Add the attached zip files to TR 38.903:

• “38.533 5.5.1.5 TT.zip”

• “38.533 5.5.1.6 TT.zip”

Added TC 5.5.1.5 and 5.5.1.6 as new groups in Table 8-2.

Associated CR for 38.533: R5-222182

**Discussion:**

r2

**Decision:** The document was **revised to R5-223608**.

**R5-223608 Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0306 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222183)

**Decision:** The document was **agreed**.

**R5-222479 Update FR2 TRx MU in 38.903**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0307 Cat: F (Rel-16)  
  
 Source: Anritsu*

**Discussion:**

was wrong WIC & AI.

r1

Keysight USA: In this CR, you are making the following assumptions for the various test cases, e.g., Table B.2.2.3-1 and Table 2.2.19-1

• The 40cm QoQZ MU is 0.3dB higher than that of the 30cm QoQZ MU regardless of test case and frequency range.

o Could you please provide technical justification why the QoQZ MU for MOP is increased by 0.3dB as there was no full set of measurement data in the discussion paper

o Could you please provide technical justification why the QoQZ MU for ACLR is increased by 0.3dB as there was no measurement data or analytical justification for this increase in the discussion paper. We suggest to leave this MU element as FFS

o Could you please provide technical justification why the QoQZ MU for SE test cases below 23.45GHz and above 40.8GHz is increased by 0.3dB as there was no measurement data or analytical justification for this increase in the discussion paper. We suggest to leave this MU element as FFS

o What is the technical justification for this QoQZ for calibration process MU to increase for the 40cm QZ since the evaluation is performed at P1/center of QZ, i.e., the 30cm results should match the 40cm results?

• More importantly, for the 40cm QZ, you are proposing to leverage the ETC MU for the NTC & ETC test cases of MOP (Tables B.3-2 & B.3.2-9) and REFSENS (Tables B.19-1 and B.19.2-5). It is not clear why are proposing to change the framework for 40cm QZ, i.e., the ETC MU applies to ETC and NTC test cases, while for 30cm QZ, the NTC MU applies to NTC test cases and the ETC MU applies only to ETC test cases. We feel that we unnecessarily increase the MU for 40cm QZ this way

• Why do you treat the QoQZ MU for spherical coverage (Tables B.3.2-10 for MOP and B.19.2-5 for REFSENS (Note 3)) different than the other MOP and REFSENS test cases? Could you please provide your technical justification for assigning FFS to the QoQZ MU for spherical coverage? We believe the QoQZ MU for spherical coverage is the same as QoQZ MOP (EIRP) and QoQZ REFSENS (EIS).

• The tables in Annex B should not state “QZ size ≤ 40 cm” as this statement could be interpreted as the following MTSUs apply to cases when the Max Device size is ≤ 30cm as well. It is suggested to change to: “30 cm < QZ size ≤ 40 cm”.

5/10: Offline discussions are occurring.

5/16: Moderator (AT&T): Given that there was no agreement on the corresponding discussion paper, this CR can be given a final Tdoc number and withdrawn if confirmed by the proponent.

**Decision:** The document was **revised to R5-223618**.

**R5-223618 Update FR2 TRx MU in 38.903**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0307 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu*

(Replaces R5-222479)

**Decision:** The document was **withdrawn**.

**R5-222514 TT analysis for RRM test case 5.7.4.1 and 5.7.4.2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0308 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223865**.

**R5-223865 TT analysis for RRM test case 5.7.4.1 and 5.7.4.2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0308 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222514)

**Decision:** The document was **agreed**.

**R5-222591 Predicted SNR upper bound update**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0309 Cat: F (Rel-16)  
  
 Source: QUALCOMM Europe Inc. - Italy*

**Abstract:**

AP#89e.23

Dependent on disc paper R5-222589

**Discussion:**

KS comment

5/16: Moderator (AT&T): Given that there was no agreement on the corresponding discussion paper, this CR can be withdrawn if confirmed by the proponent.

**Decision:** The document was **withdrawn**.

**R5-223170 Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0318 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test tolerance analysis correction related to the dicsussion paper

**Discussion:**

r1

**Decision:** The document was **revised to R5-223866**.

**R5-223866 Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0318 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223170)

**Decision:** The document was **agreed**.

**R5-223186 Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0320 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Test tolerance analysis correction

**Discussion:**

r1

**Decision:** The document was **revised to R5-223609**.

**R5-223609 Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases**

*Type: CR For: Agreement  
 38.903 v16.11.0 CR-0320 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223186)

**Decision:** The document was **agreed**.

#### 5.4.16 TR 38.905 (NR Test Points Radio Transmission and Reception )

**R5-222188 Correction of Justification in attachment for UL MIMO MPR and ACLR in 38.521-1**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0589 Cat: F (Rel-17)  
  
 Source: CAICT*

**Abstract:**

Has already been applied in 38.521-1.No associated test case CR.

**Decision:** The document was **agreed**.

**R5-222189 Correction of test points analysis of 2UL CA ACLR test case in 38.521-1**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0590 Cat: F (Rel-17)  
  
 Source: CAICT*

**Abstract:**

Has already been applied in 38.521-1.No associated test case CR.

**Decision:** The document was **agreed**.

**R5-222442 Updating TP analysis for MPR, SEM and ACLR for FR2**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0604 Cat: F (Rel-17)  
  
 Source: Keysight technologies UK Ltd*

**Abstract:**

This CR depends on R5-222435.

**Discussion:**

r1

asking for clarification on whether the MPR as defined in 38.101-2 v16.2.0 is mandatory or optional for a Rel-16 UE? and also if the Rel-16 UE is always expected to signal modifiedMPRbehaviour bit 0 = true.

**Decision:** The document was **revised to R5-223867**.

**R5-223867 Updating TP analysis for MPR, SEM and ACLR for FR2**

*Type: CR For: Agreement  
 38.905 v17.4.0 CR-0604 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222442)

**Decision:** The document was **agreed**.

#### 5.4.17 Discussion Papers, Work Plan, TC lists

**R5-222186 Discussion on NR part UL power testing for Rel-15 PC2 UEs of Inter-band EN-DC within FR1**

*Type: discussion For: Endorsement  
 38.521-3 v..  
 Source: CAICT*

**Abstract:**

Proposals applied in CR R5-222193

**Discussion:**

Table 8.1.2.1-0 of 38.307 and Observation 3 were updated as Interband EN-DC Power Class 2 is also release independent from Rel-15 for FDD and TDD Duplex-mode.

Ericsson: For EN-DC, it is the UE-MRDC-Capability IE that is signalled to the network.

r1

Qualcomm needed more time.

38.307 defines some features are release independent. In the content of our discussion, the feature is “Interband EN-DC Power Class 2”, not the duplex mode.

r2

Qualcomm: the change shall only apply to TDD bands for Rel 15 UE?

Huawei: we don't agree with FDD and TDD Inter\_band EN-DC PC2 is release independent from Rel-16. According to 38.307, all the band combinations are release independent from Rel-15.

We will hold our objection for now. As CAICT said, considering the existing spec only applies to Rel-16, this CR is not changing the status.

r3

As per the offline discussion with Qualcomm, Ericsson and HUAWEI, Proposal 1 and Proposal 2 can be endorsed. The associated CR R5-222193r2 can be agreed.

**Decision:** The document was **revised to R5-223645**.

**R5-223645 Discussion on NR part UL power testing for Rel-15 PC2 UEs of Inter-band EN-DC within FR1**

*Type: discussion For: Endorsement  
 38.521-3 v..  
 Source: CAICT*

(Replaces R5-222186)

**Discussion:**

noted, proposals endorsed and implemented in CR"

**Decision:** The document was **noted**.

**R5-222340 Discussion on TT and testability proposal for FR2 EVM**

*Type: discussion For: Discussion  
 38.521-2 v..  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Associated CRs R5-222341, R5-222343

**Discussion:**

It was also requested during call to see the impact to the actual requirement to the UE when k<1.

As you can see, with smaller values of K, we potentially increase the testability according to the proposal revised above (or the original one), however, in some of those cases that we “gain” testability, the practical requirement to the UE can be potentially very tight.

For example, in Test ID 8, 100MHz, FR2b, k=0.65, the actual requirement to the UE would be 3.27% vs the 8% min req the UE is permitted to have according to core test specs, that is 40.89% of the min req.

Please review and based on this information please comment which value of K you suggest to use to derive TT.

r1

KS Spain: It seems we didn’t manage to get an agreement on the proposals made in this discussion paper.

As a consequence, the associated CRs should be withdrawn.

5/11 FR2 MU GTM#1:

KS: Offline feedback from E/// to remove second bullet in proposal.

Anritsu: We think that the editor's note can be updated to complete the test case in the CR.

E///: We should analyze the risk of failing a marginal UE when we have a large MU with non-zero TT. We can find a proper value of k with statistical analysis.

R&S: This has only analyzed for PUSCH. Is this correct?

KS: We have only analyzed for PUSCH. Will move offline discussion to the FR2 MU reflector for futher discussion on E/// comment.

R&S: Maybe keep the editor's note for PRACH and PUCCH.

HW: Please provide the EVM value used by KS in your analysis so that we can analyze the reduced k value.

KS: Working on this analysis and will bring these numbers to the FR2 MU discussion.

r1

5/16 FR2 MU GTM#2:

Orange: Still not happy to have TT not equal to 0 for EVM due to customer impact.

E///: Regarding the new table, we would like to show the other side also to show how high it could go and still allow the UE to pass. A UE transmitting higher power could have dramatically lower MU. This could be looked at as a way to optimize the MU.

KS: We discussed the optimization in previous meetings and we need to account for any compliant UE.

AT&T: Didn't we also allow the UE power to be measured for ON/OFF?

KS: However, the MU for the absolute measurement may not improve the situation.

E///: The idea is not to differentiate the test coverage. Just make TT different.

HW: If the UE has different output power, the MU would be different and thus the TT would be different. Is this the case? Analysis is not necessarily based on MOP right now.

E///: Correct.

KS: Only two test points are based on MOP. The others have MPR allowed.

Anritsu: Concerning the approach to use MOP of the UE is not the same case as ON/OFF. It is used to define the test relaxation in that case.

Orange: For 0.7 and 0.8, there is no improvement in testability, why are we using 0.8?

KS: The lower the value, we make it harder for the UE. However, the testability is not improved.

E///: If we can't agree by tomorrow, can the TE vendors study the statistics on the distribution for this test case?

HW: We support E/// comment and further study the MU here in order to drive to a smaller value. With the proposed MU, we are not getting much value from the test case. The k value of 0.65 is not agreeable. We need more time to consider the k value of 0.8.

Moderator (AT&T): Continue discussion over email to come to a way forward. Any revision shall be produced prior to the FR2 MU discussion paper deadline of Tuesday, 17 May, 15:00UTC.

5/17: Moderator (AT&T): No acceptable WF can be endorsed at this meeting. This paper can be given a final Tdoc and noted.

**Decision:** The document was **revised to R5-223620**.

**R5-223620 Discussion on TT and testability proposal for FR2 EVM**

*Type: discussion For: Discussion  
 38.521-2 v..  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222340)

**Decision:** The document was **noted**.

**R5-222435 Discussion on updates required in Test points analysis for MPR, SEM and ACLR**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Discussion:**

Some feedback was received from R&S indicating that they don’t agree on the principle that NRB is adjusted for DFT-s-OFDM when being used in the equation for inner/outer allocation but this should always be the maximum RB number specified in 5.3.2-1.

Similar feedback was being previously received offline from Huawei.

Our understanding is that the maximum NRB that can be allocated for DFT-s-OFDM waveform is constrained by 38.211.

R&S: We share the same view as Huawei. If for NRB a dependency on waveform is introduced, this will impact the specification in many places and may require to update MPR frequency ranges in order to align them to the channel center.

r1

Noted, proposals endorsed. LS to RAN4 not needed (Huawei comented accordingly).

**Decision:** The document was **revised to R5-223637**.

**R5-223637 Discussion on updates required in Test points analysis for MPR, SEM and ACLR**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222435)

**Decision:** The document was **noted**.

**R5-222436 Discussion on Rel-15 Common Uplink Configuration for PC2, PC3 and PC4**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Decision:** The document was **noted**.

**R5-222548 On LTE-NR coexistence performance test cases**

*Type: discussion For: Endorsement  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Associated CR in R5-222549

**Discussion:**

r2

noted proposal 1 is endorsed.

**Decision:** The document was **revised to R5-223627**.

**R5-223627 On LTE-NR coexistence performance test cases**

*Type: discussion For: Endorsement  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222548)

**Decision:** The document was **noted**.

**R5-222553 On QoQZ for 40cm QZ**

*Type: discussion For: Endorsement  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

r2

Anritsu: Actual values in proposals are under discussion in the other thread for R5-222477, so I would like to focus on your Proposal 3 in this thread.

Could you let me know Tdoc# that defines PC1 based on 30 cm again.

KS USA: the contribution from QC in R5-198203 (“MU Assumptions for PC1 Fixed Wireless Access (FWA) UE”) defined the overall assumptions of PC1 UEs including size:

2) Max DUT sizes – 30 cm

Anritsu: we have a concern on the assumption. If PC1 MU considers only QZ size = 30 cm, it could be taken to mean that MU is not allowed to be increased at all in QZ size = 40 cm, but this is not realistic. Or does the assumption just define 30 cm as the default QZ size for PC1 and 40 cm as optional?

KS USA: The way we interpret this assumption is that PC1 Ues can fit into the 30cm QZ and that the initial/baseline MU/MTSU should be based on the 30cm QZ. However, I agree with your assumption that some PC1 devices will not fit into the 30cm QZ and that we should therefore develop MU/MTSU for larger QZs just like we did for PC3.

Anritsu: we understand that 40 cm QZ is optional for PC1 in RAN5 discussion. Then we don’t oppose deferring the QoQZ and XPD MU definition by one meeting cycle.

r3

Revised from: R5-222553.

5/10: Offline discussions are occurring.

Revised to: R5-222553r2.

Revised from: R5-222553r1.

5/11 FR2 MU GTM#1:

R&S: Support P3 from KS to defer the decision to the next meeting. Encouraged to see the results from Anritsu and KS but deferring the decision is preferred.

Anritsu: Concerning P3 from KS, we would like to define a common value for QoQZ and XPD per PC1 test case completion plan in R5-223058.

KS: Can make further comments over email. We also can consider the QC paper in R5-198203 which defined PC1 based on 30cm. We can address this first for n259.

Revised to: R5-222553r3.

Revised from: R5-222553r2.

5/16 FR2 MU GTM#2:

Moderator (AT&T): P3 can be endorsed.

KS: Do we need an AP?

Moderator (AT&T): No strong opinion to add an AP if we endorse P3. Can leave this up to the TE vendors to see if an AP needs to be raised.

R&S: Can agree to P3. Agree that we don't need an AP.

KS: Need the industry to provide additional views on defining combined versus separate NTC and ETC MTSUs and TTs for this case.

Moderator (AT&T): TE vendors can discuss if an AP is necessary for the KS request.

HW: This case is only for 40cm QoQZ, correct?

KS: There is XPD as well but that has a minor influence.

Moderator (AT&T): This paper can be given a final Tdoc number and noted. Proposal 3 is endorsed.

Revised to: R5-223614.

**Decision:** The document was **revised to R5-223614**.

**R5-223614 On QoQZ for 40cm QZ**

*Type: discussion For: Endorsement  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222553)

**Discussion:**

noted and proposal 3 is endorsed

**Decision:** The document was **noted**.

**R5-222554 On Permitted Methodologies and Applicability**

*Type: discussion For: Endorsement  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

This contribution addresses the need to define and clarify the permitted methodologies. CRs in TDOC #+1, and #+2.

discussion paper for CRs in R5-222555 and R5-222556.

**Discussion:**

R&S spain: we agree with most of the proposed changes except for the addition of DNF until the feasibility for demodulation testing is clarified. Therefore, we cannot agree to Proposal 4 in this contribution.

KS USA: Given the lack of any additional feedback, I believe that Proposals 1 through 3 can be endorsed.

Proposal 4 not endorsed

**Decision:** The document was **noted**.

**R5-222589 Discussion on fading crest factor**

*Type: discussion For: Endorsement  
 Source: QUALCOMM Europe Inc. - Italy*

**Abstract:**

AP#89e.23

Associated CRs R5-222590, R5-222591

**Discussion:**

5/16 FR2 MU GTM#2:

Anritsu: Request to defer the agreement on 256QAM until the next RAN5 meeting. We could not finalize the experiment prior to this meeting.

R&S: On P2, we should mention the level of SNR. For P3, it is too generic. Go for P3a and only consider P3b if there is a specific testability issue.

E///: Agree with R&S on the last proposal. Don't see why 10^-4 is chosen when 10^-3 was shown to be sufficient.

QC: Concerning the R&S comment, it will certainly help for RRM as well. E/// mentioned that the numbers are coming out similar but looking at the table, we would gain about 4.5dB which would help RRM test cases. We could split CSI and Demod cases and use different clipping thresholds.

Moderator (AT&T): This paper can be noted.

**Decision:** The document was **noted**.

**R5-223165 RAN5 5G NR Test Tolerance review discussion**

*Type: discussion For: Information  
 Source: Ericsson*

**Abstract:**

Discussion on the NR FR1 and FR2 Test Tolerance reviewing process

**Discussion:**

r1

**Decision:** The document was **revised to R5-223601**.

**R5-223601 RAN5 5G NR Test Tolerance review discussion**

*Type: discussion For: Information  
 Source: Ericsson*

(Replaces R5-223165)

**Decision:** The document was **noted**.

**R5-223166 FR2 RRM test cases: Known Issue List**

*Type: discussion For: Information  
 Source: Ericsson*

**Abstract:**

Document for tracking FR2 RRM known issues

**Discussion:**

r1

**Decision:** The document was **revised to R5-223624**.

**R5-223624 FR2 RRM test cases: Known Issue List**

*Type: discussion For: Information  
 Source: Ericsson*

(Replaces R5-223166)

**Decision:** The document was **noted**.

**R5-223167 FR2 RRM test cases: Known Issue List - after RAN5\_95e**

*Type: discussion For: Information  
 Source: Ericsson*

**Abstract:**

Placeholder for document for tracking FR2 RRM known issues

**Discussion:**

r1

**Decision:** The document was **revised to R5-223625**.

**R5-223625 FR2 RRM test cases: Known Issue List - after RAN5\_95e**

*Type: discussion For: Information  
 Source: Ericsson*

(Replaces R5-223167)

**Decision:** The document was **noted**.

**R5-223168 Further discussion on large UE gain range**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Abstract:**

In this document we further discuss the issue of large UE antenna gain range and propose a solution to make UE accuracy testing more meaningful.

**Discussion:**

r1

Noted, proposals 1 & 2 endorsed.

**Decision:** The document was **revised to R5-223628**.

**R5-223628 Further discussion on large UE gain range**

*Type: discussion For: Endorsement  
 Source: Ericsson*

(Replaces R5-223168)

**Decision:** The document was **noted**.

**R5-223199 Discussion on mandatory channel bandwidths after Rel-15**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Discussion:**

Qualcomm: Can you please elaborate on where is this “creating some confusion” happening? Is this in certification bodies like GCF, PTCRB? A release 16 device still tests all the release 15 requirements and as such the notes you mentioned in Introduction are still applicable to ensure testability. Can you provide a R-16 specific tests which has specific issue with CBW?.

Second, this topic has been discussed earlier in RAN5 when Qualcomm presented a similar discussion and proposed some solutions, please see below w/f, we left it to the certification organizations to approach RAN5 rather than us trying to solve this problem, which essentially happens to be deployment bottleneck (i.e lack of IODT). I don’t see anything has changed since we last discussed except R-16 and that has no impact IMO.

r1

TF160 manager:

On the single CC part, my understanding of the 3GPP core specifications so far has been:

- The (non-optional) channel bandwidths, lower than the maximum, specified in Table 5.3.5-1 of TS 38.101-1 & TS 38.101-2 are mandatory with IOT bit (channelBWs-xL).

- The maximum (non-optional) channel bandwidth specified in Table 5.3.5-1 of TS 38.101-1 & TS 38.101-2 is mandatory without IOT bit (a.k.a. purely mandatory) in a band combination with a single band entry and a single CC entry (i.e. non-CA band combination).

- For FR2, 400MHz is always optional for the UE to support, while 200MHz is always mandatory (a.k.a. purely mandatory) for the FR2-capable UE to support.

Reading your paper it seems not sure whether you have reached the same understanding with regards to the distinction between ‘mandatory with IOT bit’ and ‘mandatory without IOT bit’?

r2

- Clarifying RAN5 current understanding on channel bandwidths optionality.

- Adding the RAN plenary process to mandate an IOT bit to 1

- Adding an alternative for CA, DC, SUL band combos where channelBWs-xL is also considered to exempt certain bandwidths combination within the bandwidth combination class.

- @Huawei: Not sure whether I reflect your view as I think your example was not the most appropriate one as each bandwidth combination set has its maximum aggregated bandwidth for each band combo and possible channel bandwidths combination. Please check the wording in the revision 2 and let me know whether your view is properly covered.

- Splitting proposals in 2 parts: one for single carrier (Proposals 1X) and the second for CA, DC and SUL (Proposals 2X), so RAN5 can decide independently on both cases.

Comments from the TF160 manager.

r2 was presented in the midweek joint.

Dish thanked for the detailed paper and commented.

AT&T recommended raise the issue to RAN4 and RAN, as it provides limited visibility to the industry.

The TF160 manager commented on the FGI bits.

Qualcomm: it is dangerous if something is deployed which is not supported. Mentioning testing relaxation.

**Decision:** The document was **revised to R5-223626**.

**R5-223626 Discussion on mandatory channel bandwidths after Rel-15**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

(Replaces R5-223199)

**Discussion:**

noted and proposals to be presented in R5-223200 (CR) and R5-223201 (LS out)

**Decision:** The document was **noted**.

**R5-223271 EIRP-based test metric for FR2 SEM verifications**

*Type: discussion For: Agreement  
 38.521-2 v..  
 Source: Apple Portugal*

**Abstract:**

RAN4#103-e t-doc R4-2207675 draftCR

**Discussion:**

Anritsu:

Thank you very much for your proposal on EIRP-based SEM measurement.

We are interested in that, because it can save test time and improve the dynamic range issue which is assumed to be happen in PC1.

However, we have a concern on the procedure to obtain the test results.

We assume that ΔP = Peak EIRP(dBm) - TRP(dBm) corresponds to the measurement results at Mid in the table, and EIRPstep corresponds to the measurement results at the row “SEM\_EIRP” in the table. Is our understanding correct?

In that case, the test result is calculated as below. The proposed procedure may work to make the test result smaller than the actual TRP based SEM, so it is easier to pass the UE. How about simply using EIRP based SEM instead of TRP based SEM without reducing by ΔP? It is stricter to UE, but I think there is enough margin to the 3GPP limit.

Keysight Spain:

• ACLR metric was changed due to testability aspects while SEM test does not present any limitation in terms of testability.

• Spurious Emission regulatory tests might allow for early exit using EIRP measurements to provide significant test time savings, but this is not the case in 3GPP. RAN5 explored such simplification and finally concluded that it was not the correct approach as spurious might be transmitted with different beamforming as the TX beam peak.

• In any case, the early exit criteria for spurious measurements is at least 20 dB than spurious limit (Probably not such big dynamic range is available for testing in FR2)

• Regulatory body could decide to change SEM metric if they think it is the acceptable way forward, but it is independent on what 3GPP decides.

• The fact that at certain spatial angles, the EIRP could be much lower than that at peak direction, causing an inaccurate measurement due to lack of dynamic range on the TE side, the SEM noise impact was analyzed, and it was concluded to be below 0.62 dB for FR2a and below 1 dB for FR2.

• BTW, this case is not covered in the analysis performed for Observation 4 (“With SEM (Beam peak) if the EIRP is stronger than -25dBm, the difference between the SEM (TRP) and SEM (EIRP) is similar with the difference between Peak EIRP and TRP”).

Hence we think that SEM metric change from TRP to EIRP is not justified yet. Maybe this change needs to be proposed at RAN4 level.

Additionally, regarding associated CR (R5-223272), we think that minimum conformance requirement should be kept aligned with core specifications. Hence the below change should be removed unless aligned with RAN4 CR.

R&S: RAN5 has changed the metric for ACLR to EIRP in order to solve the testability issue and to enable testing. However, for SEM there is no testability issue and the motivation in your paper is different one, i.e., test time reduction.

We have the concern that changing the metric in the proposed way will result in additional MU contributions which will significantly increase the measurement uncertainty:

a) One contribution is that the directivity is only determined for the in-band frequency range, but it is used to calculate an approximation of the TRP value for the OOB frequency region. The data presented in the contribution show that the directivity is dependent on the frequency. This dependency is UE implementation specific and the associated MZ is difficult to assess. In the data provided in the paper, the directivity varies in the range from 7.8 to 12.8 dB introducing an error of 5 dB for the outer frequency ranges. When considering large single carrier bandwidths or CA this value will further increase.

b) In addition the Gaussian error propagation has to be considered for the proposed calculation method TRPSEM,calculated = EIRPSEM - ΔP = EIRPSEM – EIRPMOP,Peak + TRPMOP.

Considering these two contributions, a) and b), results in a MU value of 9.6 dB for SEM, NTC, FR2a. The directivity error increases with bandwidth and can be worse for other Ues resulting in even larger total Mus..

In the discussion paper it is mentioned that the accuracy of the TRP measurement is limited due to the low SNR of EIRP measurements in specific directions. Anritsu has proven in a discussion paper that the impact of noise for a TRP measurement is given by the SNR of the TRP value compared to the TE’s noise floor. Thus, the statement in the contribution that EIRP of SEM can be quite close to the noise floor for specific directions has no impact on the accuracy of the TRP measurement. And the latter is determined by the SNR of the TRP level compared to the TE’s noise floor.

In the paper it is stated that SEM is especially time consuming due to 1MHz measurement bandwidth. We would like to clarify that an acquisition with larger bandwidth and applying an FFT allows to reduce the measurement time significantly.

It seems that Apple has a different understanding of spatially flat since the assumption that SEM is spatially flat is used in the line of argumentation.

However, in contrast to ACLR, the SEM is an absolute power value and it is not spatially flat. The EIRP values for SEM have a direction dependence which determined by the antenna pattern of the UE.

To sum up, we do not consider that an increase of the MU by a factor of two is justified by a reduction of test time. Moreover, SEM is a regulatory test case and we need to aim at high accuracy.

r1

Convener AT&T: Please remove the previous Proposal 1 from section 2.3 of the draft r1 discussion paper or align the text with the new Proposal 1 and move it to the end of section 2.3 below Observation 5.

Unless there are any objections raised, the discussion paper can be noted and the proposal is endorsed.

Associated CR R5-223272

5/10: Offline discussions are occurring.

5/16 FR2 MU GTM#2:

QC: This paper is also related to a paper in RAN4. QC supports the idea but we need to look at the MU aspects. Some MU elements may cancel out and we need to analyze. Would like to continue exploring this approach.

Apple: The RAN4 paper focuses on adding the EIRP to the minimum performance. The intent of the RAN5 paper is just to add the test procedure aspects.

R&S: MU needs to be studied in depth. We still think that MU will be increased due to the different measurement processes which will result in higher MU for delta P. On the test procedure, this test case is no longer independent and would require other test case to be run prior to this test case. This can cause issues if the MOP test case is run with a different UE or different firmware. Need to define the test case as if it is independent and self-contained.

QC: With reference to RAN4, we don't see it relevant to RAN4 since we cannot change the performance metric since this is a regulatory requirement. Would like to see that the RAN4 paper not progress and keep the ownership in RAN5.

Apple: Will try to capture the WF in the paper.

Moderator (AT&T): Apple to modify the paper to capture the WF in the proposals. Any revision shall be produced prior to the FR2 MU discussion paper deadline of Tuesday, 17 May, 15:00UTC.

5/17: Moderator (AT&T): This paper can be given a final Tdoc and noted. The proposal is endorsed

**Decision:** The document was **revised to R5-223622**.

**R5-223622 EIRP-based test metric for FR2 SEM verifications**

*Type: discussion For: Agreement  
 38.521-2 v..  
 Source: Apple Portugal*

(Replaces R5-223271)

**Decision:** The document was **noted**.

**R5-223278 Discussion on testability aspects for new test function to limit Pcell power**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

**Discussion:**

Apple: Thank you for the discussion paper R5-223278 regarding analysis of testability aspects for the new test function to limit PCell Power. I understand this is in follow-up to the way forward proposal 3 from R5-221630 at RAN5#94e. Below are some comments.

- A minor note, there seems to be a typo/mis-sequence in the proposal number

- The idea in proposals 1, 2 and 3 seems to be mainly focused on highlighting need for agreeing on analysis of unequal channel bandwidths and that it needs to be covered by the test function approach. Regarding the reference to the draftCRs it seems the neccessary changes are already addresed on the other thread/discussion related to those CRs. One thought is I could adopt the generic formula you suggest for Xmax,Pcell into the 38.509 CRs (R5-223031r2,R5-223032r2) since it obviously would cover the existing values already added in the table. Also the editors note can be further clarified as - The power limit request message values set by the UPLF test mode is currently applicable to equal channel bandwidths on all component carriers. Message values are pending for unequal channel bandwidths.

- With respect to analysis of unequal channel bandwidths, our input is that for convenience the configurations can be picked for analysis based on the actual operator-owned configs in the Rel16/Rel17CA\_DC work plan (similar to how RAN5 is not adding all RAN4 defined configurations to clause 5 but only those picked by operators in the CA\_DC work plan). For example from the table 2.2-1 in the discussion paper, when comparing against actual CA\_DC combos that have interested operators the most commonly occurring unequal channel bandwidth configuration is 50 MHz+100 MHz, with several others not picked. This will help optimize the message values that will need to be defined.

- Based on the above, I suggest that proposal 1,2,3 can be noted. Regarding Proposal 5, it seems this will be implementation specific but can be discussed further. Maybe an Action Point might help?

Anritsu: In my understanding, there are no any testability impact by the new test function that limits PCell power. Testability issue for low power depends on the total aggregated CBW and the total power of all cells. When PCell power is reduced by Xmax, all SCells are increased by Xmax, and then the total power is kept to be max.

KS Spain: The dependency of this testability analysis and the definition of the new test functions we see is as follows: We are proposing to add additional test functions in order to test something that, in many cases, we are not going to be able to measure due to the dependency you raised on aggregated CBW and total power of all cells and test system dynamic ranges. Hence the concern I raised in here is: Is it worthy to add the test functions?

Ericsson: I think Keysight brings up a very important aspect for us to consider here. We should not just blindly add mandatory UE features for testing purpose without considering if they are testable.

Anritsu: Our understanding is that total power of all cells are not affected by Xmax,Pcell and there is no difference of testability between single CC and CA with the same BW, e.g. single 400 MHz and CA 200 MHz + 200 MHz. Xmax,Pcell limits the power of only Pcell, not the total power of all cells.

r2

Verizon: It makes sense to move forward to unblock the tests with equal channel bandwidth for FR2 UL-CA testing as the first stage. And as suggested, once the first stage of equal channel bandwidth tests are completed, extend it to unequal channel bandwidth as the second stage. From the operator side, we really can’t afford further delay on FR2 UL-CA testing.

**Decision:** The document was **revised to R5-223646**.

**R5-223646 Discussion on testability aspects for new test function to limit Pcell power**

*Type: discussion For: Endorsement  
 Source: Keysight technologies UK Ltd*

(Replaces R5-223278)

**Discussion:**

noted and proposal 1 is endorsed

**Decision:** The document was **noted**.

**R5-223300 New method for preventing SCell drop in RAN5 FR2 UL CA test cases**

*Type: discussion For: discussion  
 Source: Ericsson*

**Abstract:**

we have discovered another solution for SCell drop which is simpler and more robust compared to Option 1 which we chose not to move forward on at last meeting. The new solution is based on UE Power Headroom Reporting which has not been discussed before in RAN5. We think this (called Option 1C) need to be discussed in RAN5 as a potential short term solution.

o draft discussion paper that you are now requesting a late tdoc, as a possible way fwd RAN5 is requested to consider instead of what has been indicated as way fwd at RAN5#94-e

o List all the Ran5#95-e CR’s that this late discussion paper ( if agreed as a way fwd) will result in withdrawal

o Provide draftCR’s addressing the topic aligned with the intended proposal in late discussion paper

**Discussion:**

late doc

Apple: Thank you for this discussion paper proposing a variation of Option 1 discussed several times in the past. This Option 1C uses PHR reporting as a way for the TE to determine if TPC commands need to continue to be sent to UE and thereby avoid Scell Drop in FR2 UL-CA tests. Below are some comments -

1) In principle this is similar to the earlier TPC based approach but the assumption seems to be that PHR reporting will remove some of the uncertainty involved in measurements. From a network/TE standpoint of course it is known that if the network/TE knows the total PHR, the TPC and resource scheduling can be better managed.

However, the PHR based approach was discussed extensively in RAN4 in the context of avoiding SCell dropping but one key concern that was never resolved is that the PHR reporting is still not frequent or periodic enough to avoid SCell dropping, hence the benefit is questionable. In this proposal you suggest configuring the smallest periodicity of 10 slots, but the SCell dropping can occur on a per-slot basis so we will still run into the issue.

It should be noted that a PHRca was considered in RAN4 discussions as a way to make the PHR reporting for CA scenarios more robust. However. the dependency on RAN1/RAN2 and the view that per cell PHR is sufficient as CA PHR can be calculated by doing the power sum of the per-cell PHR - cause the PHRca idea to not gain traction.

2) Apart from the PHR peridocity related aspect pointed about above, it would be useful to hear from TE vendor experts on the feasibility of implementing option 1C in conformance testing. Since there has to be close timing alignment between PHR reports and TPC adjustments at a per-slot level. And how would the 1dB reporting granularity be factored into test implementation.

3) There were comments in previous RAN5 meetings on the challenges of implementing one option for Rel15 and another option/test procedure step for later Releases. Apple does not have a strong view on this but I am recapping this past concern to get current views from other companies.

4) I do not quite agree with the comment in section 2.3 that test mode implementation in both UEs and TEs might take more time. Since the idea of endorsing draftCRs along with WF Option 2 was for the ecosystem to soak in the changes and suggested improvements to the draftCRs which has occurred since RAN494e. So from timeline standpoint, I do not see much of a gain but that said, we are still open if the group wants to discuss Option 1C and the associated draftCRs as a solution for Rel15 assuming the above and any other concerns can be resolved.

5) Thanks for sharing the draftCR R5-223600 which provides an example of implementation of Option 1C for Release 15. From a review of the same, it seems that there is no conflict as such with Apple CR R5-223030 (Option 2 WF) since latter is an actual CR based on endorsed draftCR content from RAN4#94 which is quite stable it can be agreed while we discuss Option 1C/draftCR. Since the contents (and CR type) of both are quite non-overlapping and non-intrusive to each other (different test procedure steps depending on UE test mode support).

Qualcomm: our understanding is that the Ericsson’s PHR solution is limited to R15 only in which case I am fine with it as we currently have no coverage for R15. In general my views on the PHR method are similar to Apple comments below. I am not fully sure if this PHR method results in stable implementation but in interest to provide some R15 coverage we can try this for R15 only.

As far as R16 and beyond goes I support the test mode method along the lines originally proposed by Qualcomm/Verizon last year and Apple’s implementation CR’s based on Apple’s discussion papers/draft CRs from last and current ongoing RAN 5 meetings.

Ericsson:

To Anritsu:

• We don’t agree that we need to expand the PHR range to 2 dB because of relative power tolerance since the PHR is calculated in the UE based on the calculated transmit power in the UE and not the actual transmitted power.

• If we for example in the 2CC case with Xmax=3 dB get POWER\_HEADROOM\_35 report from the UE (4≤PH<5) we can safely send a TPC up command and still ensure that PHR≥Xmax

• However, there is one additional impact in the expected UE power due to this PHR method which is that T(ΔP) can increase if the UE is configured at 1 dB below max power. I will revise the CR to take this into account.

To Apple:

• One reason why PHR was not a good solution for RAN4 is that a real network probably cannot configure so frequent reporting as each 1.25 ms which we can do in RAN5 when only testing a single UE

• If we look into the formulas for the UE PUSCH power setting (Ppusch) which is the input to PHR, we can see that if the modulation and allocation is kept constant and alpha=0 the Ppusch and thereby also the PHR should be constant unless there is a TPC command. This means that we should not see any Scell dropping as long as we ensure PHR≥Xmax. To further clarify this I have just uploaded R5- 223300r1 with a new clause explaining this and considering the parameters in 38.508-1

• Regarding the timing advantage of PHR method vs test mode, I think the advantage is quite obvious. Just because we put the test mode into 38.509 it doesn’t mean that the UE have implemented the function. May I ask how long implementation time we can expect until we can mandate the test mode function in new released Ues?

o PHR: Test case implementation and validation can start immediately

o Test mode. Test case implementation and validation can not start until at least one UE have implemented the function, then followed by a more complex implementation on the TE side to add the new protocol.

R&S: We need more time to assess whether this method can be implemented since the frequent reporting may be challenging.

Thus, we consider it as premature to agree to the method in this meeting and think that more study on the feasibility of the method is required.

Is it known how close the UE output power comes to the theoretical maximum value in real life application of the method? The latter can be relevant for the testability discussions.

We need to avoid to have different test procedures for Rel-16 UEs. This is a prerequisite for consistent testing with reproducible results. Thus, the PHR method should be considered only for Rel-15 and after the feasibility aspects have been clarified.

Regarding the timing constraints. Implementation of the proposed method into the SS is considered as higher effort and more complex than implementation of test mode function in the protocol.

r2

**Decision:** The document was **revised to R5-223633**.

**R5-223633 New method for preventing SCell drop in RAN5 FR2 UL CA test cases**

*Type: discussion For: discussion  
 Source: Ericsson*

(Replaces R5-223300)

**Decision:** The document was **noted**.

### 5.5 Routine Maintenance for LTE only TEIx\_Test

#### 5.5.1 LTE RF

##### 5.5.1.1 TS 36.508

##### 5.5.1.2 TS 36.509

##### 5.5.1.3 TS 36.521-1

###### 5.5.1.3.1 Tx Requirements (Clause 6)

**R5-222433 Correction to RB allocation for CEMode B TCs**

*Type: CR For: Agreement  
 36.521-1 v17.2.0 CR-5403 Cat: F (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **agreed**.

**R5-222698 Correction to MPR test applicability for category 1bis**

*Type: CR For: Agreement  
 36.521-1 v17.2.0 CR-5408 Cat: F (Rel-17)  
  
 Source: Bureau Veritas*

**Abstract:**

Corresponding TS 36.521-2 changes in R5-222699

**Decision:** The document was **agreed**.

###### 5.5.1.3.2 Rx Requirements (Clause 7)

**R5-222693 Update to test applicability for 4G test caes without UL CA**

*Type: CR For: Agreement  
 36.521-1 v17.2.0 CR-5406 Cat: F (Rel-17)  
  
 Source: Bureau Veritas*

**Decision:** The document was **agreed**.

###### 5.5.1.3.3 Clauses 1-5, 8-10, Annexes

**R5-222434 Addition of missing RMC R.86 TDD**

*Type: CR For: Agreement  
 36.521-1 v17.2.0 CR-5404 Cat: F (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **agreed**.

**R5-222697 Editorial correction to NB-IoT performance test cases**

*Type: CR For: Agreement  
 36.521-1 v17.2.0 CR-5407 Cat: F (Rel-17)  
  
 Source: Bureau Veritas*

**Decision:** The document was **agreed**.

##### 5.5.1.4 TS 36.521-2

**R5-222184 Correction to Condition of Applicability for TC9.2.1.7 and TC9.2.1.8**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0979 Cat: F (Rel-16)  
  
 Source: SGS Wireless*

**Decision:** The document was **agreed**.

**R5-222575 Alignment of euCA RRM testcase numbering according to 36.133**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0980 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r1

**Decision:** The document was **revised to R5-223868**.

**R5-223868 Alignment of euCA RRM testcase numbering according to 36.133**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0980 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222575)

**Decision:** The document was **agreed**.

**R5-222694 Correction to CA test cases applicability and band selection criteria**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0981 Cat: F (Rel-16)  
  
 Source: Bureau Veritas*

**Decision:** The document was **agreed**.

**R5-222699 Removal of MPR and A-MPR for category 1bis from applicability table**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0982 Cat: F (Rel-16)  
  
 Source: Bureau Veritas*

**Abstract:**

Corresponding TS36.521-1 changes in R5-222698

**Decision:** The document was **agreed**.

**R5-223195 Correction of applicabilty for sTTI test cases**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0985 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-223242 Correction to Release of Applicability for TC7.1.3 and TC7.1.4**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0986 Cat: F (Rel-16)  
  
 Source: Google Inc.*

**Abstract:**

editorial

**Discussion:**

title

r2

**Decision:** The document was **revised to R5-223869**.

**R5-223869 Correction to Release of Applicability for TC7.1.3 and TC7.1.4**

*Type: CR For: Agreement  
 36.521-2 v16.12.0 CR-0986 rev 1 Cat: F (Rel-16)  
  
 Source: Google Inc.*

(Replaces R5-223242)

**Discussion:**

first provisionally agreed, then put to 'not pursued' because not available at the deadline.

**Decision:** The document was **not pursued**.

##### 5.5.1.5 TS 36.521-3

**R5-222569 Alignment of euCA RRM testcase numbering according to 36.133**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2620 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r1

**Decision:** The document was **revised to R5-223794**.

**R5-223794 Alignment of euCA RRM testcase numbering according to 36.133**

*Type: CR For: Agreement  
 36.521-3 v16.12.0 CR-2620 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222569)

**Decision:** The document was **agreed**.

##### 5.5.1.6 RRM Test & Radio Reception Test Tolerances

###### 5.5.1.6.1 TR 36.903 (E-UTRAN RRM TT analyses)

###### 5.5.1.6.2 TR 36.904 (E-UTRAN Radio Reception TT analyses)

###### 5.5.1.6.3 TR 36.905 (E-UTRAN Test Points Radio Transmission and Reception )

##### 5.5.1.7 TS 34.121-1

##### 5.5.1.8 TS 34.121-2

##### 5.5.1.9 TS 34.122

##### 5.5.1.10 TS 34.108

##### 5.5.1.11 TR 34.902 (UTRAN RRM Test Tolerance analyses)

##### 5.5.1.12 Discussion Papers, Work Plan, TC lists

### 5.6 Other Routine Maintenance TEIx\_Test

#### 5.6.1 TS 34.108

#### 5.6.2 TS 34.121-1 All sections other than annexes

#### 5.6.3 TS 34.121-1 Annexes only

#### 5.6.4 TS 34.121-2

#### 5.6.5 TS 34.122

#### 5.6.6 TS 34.171

#### 5.6.7 TS 34.172

#### 5.6.8 TS 34.114

#### 5.6.9 TS 37.571-1

#### 5.6.10 TS 37.571-3

#### 5.6.11 TS 37.571-5

**R5-222521 Addition of QZSS to the updated GNSS scenarios**

*Type: CR For: Agreement  
 37.571-5 v16.7.0 CR-0215 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

#### 5.6.12 TS 51.010-1 (RF/Performance)

#### 5.6.13 TS 51.010-2 (RF/Performance)

#### 5.6.14 TS 51.010-7 (RF/Performance)

#### 5.6.15 TS 37.544

#### 5.6.16 TR 37.901

#### 5.6.17 Discussion Papers, Work Plan, TC lists

#### 5.6.18 TR 37.901-5

**R5-222564 Updates to A.7.1.1.1 and A.9.1.1.1 test points**

*Type: CR For: Agreement  
 37.901-5 v16.7.0 CR-0029 Cat: F (Rel-16)  
  
 Source: Qualcomm Austria RFFE GmbH*

**Decision:** The document was **agreed**.

### 5.7 Outgoing liaison statements for provisional approval

**R5-222441 LS on ModifiedMPRbehaviour clarification for different power classes**

*Type: LS out For: Endorsement  
 to TSG RAN WG4  
 Source: Keysight technologies UK Ltd*

**Abstract:**

associated discussion paper R5-222440

**Discussion:**

r3

**Decision:** The document was **revised to R5-223635**.

**R5-223635 LS on ModifiedMPRbehaviour clarification for different power classes**

*Type: LS out For: Endorsement  
 to TSG RAN WG4  
 Source: Keysight technologies UK Ltd*

(Replaces R5-222441)

**Discussion:**

(Flores)

for email approval

June 9th

**Decision:** The document was **for email approval**.

**R5-223201 LS on Channel bandwidths exemptions**

*Type: LS out For: Endorsement  
 to TSG RAN WG4, cc TSG RAN WG2  
 Source: Keysight technologies UK Ltd*

**Abstract:**

associated discussion paper R5-223199

**Decision:** The document was **withdrawn**.

### 5.8 AOB

## 6 Signalling Protocol Functional Area

### 6.1 Review action points (fm A.I. 2.1)

### 6.2 Review incoming LS (fm A.I. 3) & new subject discussion papers

**R5-222064 NGMN Liaison Statement on Definition of the Testing Framework for 5G Device Network Slicing Pre-Commercial Trials**

*Type: LS in For: Information  
 Original outgoing LS: 220303, to 3GPP TSG RAN WG5, GSMA TSG, GCF SG, GCF FTAG, CCSA TC5, CCSA TC10, cc -  
 Source: NGNM*

**Abstract:**

The NGMN Alliance is a forum founded by world-leading Mobile Network Operators and open to all partners in the mobile industry. Its goal is to ensure that next generation network infrastructure, service platforms and devices will meet the requirements of operators and, ultimately, will satisfy end user demand and expectations.

The vision of the NGMN Alliance is to provide impactful industry guidance to achieve innovative, sustainable and affordable mobile telecommunication services for the end user with a particular focus on Mastering the Route to Disaggregation / Operating Disaggregated Networks, Green Future Networks and 6G, whilst continuing to support 5G’s full implementation.

NGMN seeks to incorporate the views of all interested stakeholders in the telecommunications industry.

2. NGMN Network Slicing for Operating Systems of 5G Smart Phones Project

NGMN Network Slicing for Operating Systems of 5G Smart Phones Project Phase 2 focuses on the Network Slicing Trials based on the actual network elements, which are out of 3GPP RAN5 scope, and will provide valuable feedback and input to 3GPP.

This project has the following scope:

• Developing a testing framework for 5G Network Slicing Device, which allows the harmonisation of the testing methodologies among different parties conducting trials;

• Testing 5G Network slicing capabilities by lab test/field trials with different kinds of devices, e.g. smartphones, modem;

• Consolidating the results from different industry players and drawing conclusions. Analysing the testing conclusions and bringing observations that could lead to future improvement.

3. Intention of the LS and required actions

NGMN would like to inform you about the publication of the “NGMN-GTI Definition of the Testing Framework for 5G Device Network Slicing Pre-Commercial Trials”.

At present, the industry demand on network slicing tests in 5G devices has become more and more pressing. NGMN has realised this urgent demand and has published the testing framework for industry's reference. This testing framework specifies the related information of network slicing lab test/field trial based on the actual network elements, such as trial setup requirements, common requirements for network slicing trials and service specific requirements for network slicing trials. The common requirements for network slicing trials include the test cases of the configuration and usage of NSSAI, UE Route Selection Policy and Interworking with EPC. The service specific requirements for network slicing trials define the service performance tests of network slicing in 5G devices, including FTP/Speedtest Download Service, Video Service and the Cloud Gaming Service. The focus of this publication is to evaluate the functionality and performance of 5G Network Slicing implementations in 5G devices by lab test/field trials, so as to ensure the user experience.

The NGMN Alliance suggests that your organisation considers this White Paper in the related device test and certification work.

**Discussion:**

moved to SIG

**Decision:** The document was **noted**.

**R5-223261 Discussion paper on RRC DL segmentation test method**

*Type: discussion For: Decision  
 Source: MediaTek*

**Discussion:**

Proposal accepted with the condition new test cases need to be added.

**Decision:** The document was **noted**.

### 6.3 Open Work Items

#### 6.3.1 Rel-15 CA configurations (UID - 770064) LTE\_CA\_R15-UEConTest

##### 6.3.1.1 TS 36.508

##### 6.3.1.2 TS 36.523-1

##### 6.3.1.3 TS 36.523-2

##### 6.3.1.4 TS 36.523-3

##### 6.3.1.5 Discussion Papers, Work Plan, TC lists

#### 6.3.2 Rel-16 LTE CA configurations (UID - 810061) LTE\_CA\_R16-UEConTest

##### 6.3.2.1 TS 36.508

##### 6.3.2.2 TS 36.523-1

##### 6.3.2.3 TS 36.523-2

##### 6.3.2.4 TS 36.523-3

##### 6.3.2.5 Discussion Papers, Work Plan, TC lists

#### 6.3.3 REL-16 NR CA and DC; and NR and LTE DC Configurations (UID-830083) NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest

##### 6.3.3.1 TS 38.508-1

**R5-222175 Introduction of test frequencies for CA\_n77C for protocol testing**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2297 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223072 Introduction of test frequencies for CA\_n258G for protocol testing**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2379 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 6.3.3.2 TS 38.508-2

##### 6.3.3.3 TS 38.523-1

##### 6.3.3.4 TS 38.523-2

##### 6.3.3.5 TS 38.523-3

##### 6.3.3.6 Discussion Papers, Work Plan, TC lists

#### 6.3.4 New Rel-16 NR bands and extension of existing NR bands (UID - 850062) NR\_bands\_BW\_R16-UEConTest

##### 6.3.4.1 TS 38.508-1

##### 6.3.4.2 TS 38.508-2

##### 6.3.4.3 TS 38.523-3

##### 6.3.4.4 Discussion Papers, Work Plan, TC lists

#### 6.3.5 RF requirements for NR frequency range 1 (FR1) (UID-870061) NR\_RF\_FR1-UEConTest

##### 6.3.5.1 TS 38.508-1

##### 6.3.5.2 TS 38.508-2

##### 6.3.5.3 TS 38.523-1

##### 6.3.5.4 TS 38.523-2

##### 6.3.5.5 TS 38.523-3

##### 6.3.5.6 Discussion Papers, Work Plan, TC lists

#### 6.3.6 Even Further Mobility Enhancement for E-UTRAN (UID – 880066) LTE\_feMob-UEConTest

##### 6.3.6.1 TS 36.508

##### 6.3.6.2 TS 36.523-1

**R5-222788 Correction to LTE TC 8.2.4.31.4-Conditional handover**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5091 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223357**.

**R5-223357 Correction to LTE TC 8.2.4.31.4-Conditional handover**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5091 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222788)

**Decision:** The document was **agreed**.

##### 6.3.6.3 TS 36.523-2

##### 6.3.6.4 TS 36.523-3

##### 6.3.6.5 Discussion Papers, Work Plan, TC lists

#### 6.3.7 NR Mobility Enhancements (UID-880068) NR\_Mob\_enh-UEConTest

##### 6.3.7.1 TS 38.508-1

##### 6.3.7.2 TS 38.508-2

##### 6.3.7.3 TS 38.523-1

**R5-222178 Update to Rel-16 NR Mobility Enhancement test case 8.2.3.18.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2889 Cat: F (Rel-16)  
  
 Source: CATT, TDIA*

**Decision:** The document was **agreed**.

**R5-222417 Editorial Correction to NR Test case 8.1.4.4.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2911 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD*

**Discussion:**

R5

r1

**Decision:** The document was **revised to R5-223340**.

**R5-223340 Editorial Correction to NR Test case 8.1.4.4.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2911 rev 1 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD*

(Replaces R5-222417)

**Decision:** The document was **agreed**.

**R5-222445 Correction to NR testcase 8.1.4.4.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2914 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Anritsu Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223358**.

**R5-223358 Correction to NR testcase 8.1.4.4.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2914 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Anritsu Ltd*

(Replaces R5-222445)

**Decision:** The document was **agreed**.

**R5-222446 Correction to NR testcase 8.1.4.4.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2915 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

##### 6.3.7.4 TS 38.523-2

##### 6.3.7.5 TS 38.523-3

##### 6.3.7.6 Discussion Papers, Work Plan, TC lists

#### 6.3.8 5G V2X with NR sidelink (UID-880069) 5G\_V2X\_NRSL\_eV2XARC-UEConTest

##### 6.3.8.1 TS 38.508-1

**R5-222641 Addition of test frequency for NR SL concurrent**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2332 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223359**.

**R5-223359 Addition of test frequency for NR SL concurrent**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2332 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222641)

**Decision:** The document was **agreed**.

**R5-222642 Correction to default configuration of SCI**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2333 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223360**.

**R5-223360 Correction to default configuration of SCI**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2333 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222642)

**Decision:** The document was **agreed**.

**R5-222643 Correction to sidelink IE SL-BWP-PoolConfig**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2334 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223361**.

**R5-223361 Correction to sidelink IE SL-BWP-PoolConfig**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2334 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222643)

**Decision:** The document was **agreed**.

**R5-222644 Correction to sidelink IE SL-BWP-PoolConfigCommon**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2335 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223362**.

**R5-223362 Correction to sidelink IE SL-BWP-PoolConfigCommon**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2335 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222644)

**Decision:** The document was **agreed**.

**R5-222645 Correction to sidelink IE SL-FreqConfig**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2336 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223363**.

**R5-223363 Correction to sidelink IE SL-FreqConfig**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2336 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222645)

**Decision:** The document was **agreed**.

**R5-222646 Correction to sidelink IE SL-FreqConfigCommon**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2337 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223364**.

**R5-223364 Correction to sidelink IE SL-FreqConfigCommon**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2337 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222646)

**Decision:** The document was **agreed**.

**R5-222647 Correction to sidelink IE SL-ReportConfigList**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2338 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222648 Correction to test procedures for unicast link establishment**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2339 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

changed the configuration value of PQFI and LCID according to comments received.

r2

**Decision:** The document was **revised to R5-223365**.

**R5-223365 Correction to test procedures for unicast link establishment**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2339 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222648)

**Decision:** The document was **agreed**.

**R5-222818 Correction to V2X message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2346 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

##### 6.3.8.2 TS 38.508-2

**R5-222947 Addition of PICS for NR-V2X new test cases**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0331 Cat: F (Rel-17)  
  
 Source: Lenovo*

**Discussion:**

late doc

no longer needed.

**Decision:** The document was **withdrawn**.

##### 6.3.8.3 TS 38.509

##### 6.3.8.4 TS 38.523-1

**R5-222711 Update of TC 12.1.3.1- PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2932 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223366**.

**R5-223366 Update of TC 12.1.3.1- PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2932 rev 1 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

(Replaces R5-222711)

**Decision:** The document was **agreed**.

**R5-222712 Update of TC 12.1.5.1- PC5-only operation / Sidelink CSI reporting**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2933 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223367**.

**R5-223367 Update of TC 12.1.5.1- PC5-only operation / Sidelink CSI reporting**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2933 rev 1 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

(Replaces R5-222712)

**Decision:** The document was **agreed**.

**R5-222713 Update of TC 12.1.5.2- PC5-only operation / Sidelink CSI reporting**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2934 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223368**.

**R5-223368 Update of TC 12.1.5.2- PC5-only operation / Sidelink CSI reporting**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2934 rev 1 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

(Replaces R5-222713)

**Decision:** The document was **agreed**.

**R5-222714 Update of TC 12.2.1.6- Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2935 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223369**.

**R5-223369 Update of TC 12.2.1.6- Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2935 rev 1 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

(Replaces R5-222714)

**Decision:** The document was **agreed**.

**R5-222715 Update of TC 12.2.4.1- Inter-carrier concurrent operation / Sidelink Reconfiguration via Uu RRC / SL DRB management / transmission side**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2936 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Decision:** The document was **agreed**.

**R5-222716 Update of TC 12.2.5.3- Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2937 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

was wrong Rel-17 in 3GU!

Deferred.

r1

**Decision:** The document was **revised to R5-223370**.

**R5-223370 Update of TC 12.2.5.3- Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2937 rev 1 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

(Replaces R5-222716)

**Decision:** The document was **agreed**.

**R5-222819 Correction to NR V2X NAS TC 13.2.1-Confilict Layer 2 ID**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2947 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,TF160*

**Decision:** The document was **withdrawn**.

**R5-222820 Correction to NR V2X NAS TC 13.2.2 and 13.2.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2948 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,TF160*

**Decision:** The document was **withdrawn**.

**R5-222941 Correction to NR V2X test case 12.1.6.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2954 Cat: F (Rel-16)  
  
 Source: Lenovo, MCC TF160*

**Decision:** The document was **agreed**.

**R5-222942 Correction to NR V2X test case 12.1.6.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2955 Cat: F (Rel-16)  
  
 Source: Lenovo, MCC TF160*

**Decision:** The document was **agreed**.

**R5-222943 Addition of new NR V2X test case 12.1.4.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2956 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223371**.

**R5-223371 Addition of new NR V2X test case 12.1.4.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2956 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222943)

**Decision:** The document was **agreed**.

**R5-222944 Addition of new NR V2X test case 13.2.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2957 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223372**.

**R5-223372 Addition of new NR V2X test case 13.2.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2957 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222944)

**Decision:** The document was **agreed**.

**R5-222945 Addition of new NR V2X test case 13.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2958 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223373**.

**R5-223373 Addition of new NR V2X test case 13.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2958 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222945)

**Decision:** The document was **agreed**.

**R5-222956 Addition of new NR V2X test case 12.1.4.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2963 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223374**.

**R5-223374 Addition of new NR V2X test case 12.1.4.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2963 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222956)

**Decision:** The document was **agreed**.

**R5-223015 Update of NR V2X TC 12.1.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2965 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223375**.

**R5-223375 Update of NR V2X TC 12.1.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2965 rev 1 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

(Replaces R5-223015)

**Decision:** The document was **agreed**.

**R5-223064 Correction to NR V2X NAS TC 13.2.1-Conflict Layer 2 ID**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2974 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,MCC TF160*

**Decision:** The document was **agreed**.

**R5-223065 Correction to NR V2X NAS TC 13.2.2-link seurity mode**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2975 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,MCC TF160*

**Decision:** The document was **agreed**.

**R5-223066 Correction to NR V2X NAS TC 13.2.6-link keep alive**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2976 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,MCC TF160*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223376**.

**R5-223376 Correction to NR V2X NAS TC 13.2.6-link keep alive**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2976 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,MCC TF160*

(Replaces R5-223066)

**Decision:** The document was **agreed**.

##### 6.3.8.5 TS 38.523-2

**R5-222946 Addition of applicability of new NR V2X test cases**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0223 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

rev 1!

r1

**Decision:** The document was **revised to R5-223377**.

**R5-223377 Addition of applicability of new NR V2X test cases**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0223 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222946)

**Decision:** The document was **agreed**.

##### 6.3.8.6 TS 38.523-3

**R5-222378 5G V2X: Test Model updates**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2514 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Discussion:**

- Some test cases require an MMI command to modify an existing SL-DRB.

- The handling of HARQ-ACK/NACK upon receipt of HARQ feedback enabled/disabled indicator field in the associated SCI format 2-A or a SCI format 2-B shall be clarified.

r2

**Decision:** The document was **revised to R5-223378**.

**R5-223378 5G V2X: Test Model updates**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2514 rev 1 Cat: F (Rel-17)  
  
 Source: MCC TF160*

(Replaces R5-222378)

**Decision:** The document was **agreed**.

##### 6.3.8.7 TS 36.509

##### 6.3.8.8 TS 37.571-4

##### 6.3.8.9 Discussion Papers, Work Plan, TC lists

#### 6.3.9 Enhancements on MIMO for NR (UID-880070) NR\_eMIMO-UEConTest

##### 6.3.9.1 TS 38.508-1

##### 6.3.9.2 TS 38.508-2

##### 6.3.9.3 TS 38.523-1

##### 6.3.9.4 TS 38.523-2

##### 6.3.9.5 TS 38.523-3

##### 6.3.9.6 Discussion Papers, Work Plan, TC lists

#### 6.3.10 UE Power Saving in NR (UID-880071) NR\_UE\_pow\_sav-UEConTest

##### 6.3.10.1 TS 38.508-1

##### 6.3.10.2 TS 38.508-2

##### 6.3.10.3 TS 38.509

##### 6.3.10.4 TS 38.523-1

**R5-222362 Correction to DRX adaptation test case 7.1.1.12.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2906 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

##### 6.3.10.5 TS 38.523-2

##### 6.3.10.6 TS 38.523-3

##### 6.3.10.7 Discussion Papers, Work Plan, TC lists

#### 6.3.11 Private Network Support for NG-RAN (UID-880072) NG\_RAN\_PRN\_Vertical\_LAN-UEConTest

##### 6.3.11.1 TS 38.508-1

##### 6.3.11.2 TS 38.508-2

##### 6.3.11.3 TS 38.523-1

**R5-222259 Addition of applicable R15 tests for SNPN-only UE in a new clause**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2893 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

**R5-222263 Addition of new NR5G NPN TC 6.5.2.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2896 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

late doc

r3

**Decision:** The document was **revised to R5-223379**.

**R5-223379 Addition of new NR5G NPN TC 6.5.2.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2896 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

(Replaces R5-222263)

**Decision:** The document was **agreed**.

**R5-222264 Addition of new NR5G NPN TC 6.5.2.5**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2897 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

**R5-222471 Addition of new NR5GC CAG testcase 6.5.2.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2922 Cat: B (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223380**.

**R5-223380 Addition of new NR5GC CAG testcase 6.5.2.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2922 rev 1 Cat: B (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222471)

**Decision:** The document was **agreed**.

**R5-222550 Correction to NR5GC CAG testcase 6.5.2.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2924 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, MediaTek*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223381**.

**R5-223381 Correction to NR5GC CAG testcase 6.5.2.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2924 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, MediaTek*

(Replaces R5-222550)

**Decision:** The document was **agreed**.

**R5-222937 Update of NR5G NPN TC 6.5.2.2 and 6.5.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2953 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223382**.

**R5-223382 Update of NR5G NPN TC 6.5.2.2 and 6.5.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2953 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces R5-222937)

**Decision:** The document was **agreed**.

**R5-222948 Addition of new SNPN test case**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2959 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

late doc

r3

**Decision:** The document was **revised to R5-223495**.

**R5-223495 Addition of new SNPN test case**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2959 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222948)

**Decision:** The document was **agreed**.

**R5-223279 Correction to NR5GC CAG testcase 6.5.2.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2998 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, MediaTek*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223353**.

**R5-223353 Correction to NR5GC CAG testcase 6.5.2.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2998 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, MediaTek*

(Replaces R5-223279)

**Decision:** The document was **withdrawn**.

##### 6.3.11.4 TS 38.523-2

**R5-222258 Addition of SNPN only applicability**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0218 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

**R5-222949 Addition of Applicability of new SNPN test case**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0224 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

late doc

rev 1!

r1

**Decision:** The document was **revised to R5-223383**.

**R5-223383 Addition of Applicability of new SNPN test case**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0224 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222949)

**Decision:** The document was **agreed**.

##### 6.3.11.5 TS 38.523-3

##### 6.3.11.6 Discussion Papers, Work Plan, TC lists

**R5-222257 Discussion paper for Rel-15 NR Tests Applicability on SNPN Only UE**

*Type: discussion For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223351**.

**R5-223351 Discussion paper for Rel-15 NR Tests Applicability on SNPN Only UE**

*Type: discussion For: Discussion  
 Source: Qualcomm CDMA Technologies*

(Replaces R5-222257)

**Decision:** The document was **noted**.

#### 6.3.12 Enhancements for Mission Critical Services MCPTT, MCData and MCVideo (UID – 890042) MCenhUEConTest

##### 6.3.12.1 TS 36.579-1

**R5-222141 New MCData off-network signalling messages in 5.5.3.8**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0252 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222142 New MCVideo Off-network Message Defaults 5.5.14**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0253 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

##### 6.3.12.2 TS 36.579-2

**R5-222135 Correction of 36.579-2 TC 6.2.22**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0289 Cat: F (Rel-15)  
  
 Source: NIST*

**Discussion:**

was wrong AI for TEIx.

**Decision:** The document was **withdrawn**.

**R5-222136 Correction of 36.579-2 TC 6.2.23**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0290 Cat: F (Rel-15)  
  
 Source: NIST*

**Discussion:**

was wrong AI for TEIx

**Decision:** The document was **withdrawn**.

**R5-222137 Correction of 36.579-2 TC 6.2.26**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0291 Cat: F (Rel-15)  
  
 Source: NIST*

**Discussion:**

was wrong AI for TEIx

**Decision:** The document was **withdrawn**.

**R5-222363 Correction of test case 6.1.3.1**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0293 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222364 Correction of test case 6.1.4.1**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0294 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222365 Correction of test case 6.1.4.2**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0295 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222366 Correction of test case 6.1.5.1**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0296 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222367 Correction of test case 6.1.5.2**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0297 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222368 Correction of test case 6.2.18**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0298 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222369 Correction of test case 6.2.19**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0299 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

##### 6.3.12.3 TS 36.579-3

##### 6.3.12.4 TS 36.579-4

**R5-222163 Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases**

*Type: CR For: Agreement  
 36.579-4 v15.3.0 CR-0023 Cat: F (Rel-15)  
  
 Source: NIST*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223384**.

**R5-223384 Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases**

*Type: CR For: Agreement  
 36.579-4 v15.3.0 CR-0023 rev 1 Cat: F (Rel-15)  
  
 Source: NIST*

(Replaces R5-222163)

**Decision:** The document was **agreed**.

##### 6.3.12.5 TS 36.579-5

##### 6.3.12.6 TS 36.579-6

**R5-222149 New MCVIDEO OFF-NETWORK TC 7.1.1.1 Off-network Basic Group Call CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0047 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222150 New MCVIDEO OFF-NETWORK TC 7.1.1.2 Off-network Basic Group Call CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0048 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222151 New MCVIDEO OFF-NETWORK TC 7.1.1.3 Off-network Emergency Call CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0049 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222152 New MCVIDEO OFF-NETWORK TC 7.1.1.4 Off-network Emergency Call CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0050 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222153 New MCVIDEO OFF-NETWORK TC 7.1.1.5 Off-network Imminent Peril Call CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0051 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222154 New MCVIDEO OFF-NETWORK TC 7.1.1.6 Off-network Imminent Peril Call CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0052 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222155 New MCVIDEO OFF-NETWORK TC 7.1.2.1 Off-network Broadcast Call CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0053 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222156 New MCVIDEO OFF-NETWORK TC 7.1.2.2 Off-network Broadcast Call CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0054 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222157 New MCVIDEO OFF-NETWORK TC 7.2.1 Off-network Auto Private Call CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0055 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222158 New MCVIDEO OFF-NETWORK TC 7.2.2 Off-network Auto Private Call CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0056 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222159 New MCVIDEO OFF-NETWORK TC 7.2.3 Off-network Manual Private Call CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0057 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222160 New MCVIDEO OFF-NETWORK TC 7.2.4 Off-network Manual Private Call CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0058 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222161 New MCVIDEO OFF-NETWORK TC 7.3.1 Off-network Emergency Alert CO**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0059 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222162 New MCVIDEO OFF-NETWORK TC 7.3.2 Off-network Emergency Alert CT**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0060 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222370 Correction of Emergency Alert Test Cases in clause 6.3**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0061 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222371 Correction of MCVideo Test Cases clause 6.7**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0062 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222372 Correction of test case 6.1.4.1**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0063 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222373 Correction of test case 6.1.4.2**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0064 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222374 Correction of Video Pull Test Cases in clause 6.4**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0065 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222375 Correction of Video Push Test Cases in clause 6.5**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0066 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

##### 6.3.12.7 TS 36.579-7

**R5-222143 New MCData Test Case 7.1.1 Off-network SDS 1-to-1 call CO**

*Type: CR For: Agreement  
 36.579-7 v15.2.0 CR-0022 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222144 New MCData Test Case 7.1.2 Off-network SDS 1-to-1 call CT**

*Type: CR For: Agreement  
 36.579-7 v15.2.0 CR-0023 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222145 New MCData Test Case 7.1.3 Off-network SDS group call CO**

*Type: CR For: Agreement  
 36.579-7 v15.2.0 CR-0024 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222146 New MCData Test Case 7.1.4 Off-network SDS group call CT**

*Type: CR For: Agreement  
 36.579-7 v15.2.0 CR-0025 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222147 New MCData Test Case 7.2.1 Off-network Enhanced Status CO**

*Type: CR For: Agreement  
 36.579-7 v15.2.0 CR-0026 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222148 New MCData Test Case 7.2.2 Off-network Enhanced Status CT**

*Type: CR For: Agreement  
 36.579-7 v15.2.0 CR-0027 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

##### 6.3.12.8 Discussion Papers, Work Plan, TC lists

#### 6.3.13 SON (Self-Organising Networks) and MDT (Minimization of Drive Tests) support for NR (UID-890043) NR\_SON\_MDT-UEConTest

##### 6.3.13.1 TS 38.508-1

##### 6.3.13.2 TS 38.508-2

##### 6.3.13.3 TS 38.509

##### 6.3.13.4 TS 38.523-1

**R5-222116 Correction to SON-MDT test case 8.1.6.1.2.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2883 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

**R5-222117 Correction to SON-MDT test case 8.1.6.1.2.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2884 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

**R5-222118 Correction to SON-MDT test case 8.1.6.1.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2885 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

**R5-222119 Correction to SON-MDT test case 8.1.6.1.2.9**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2886 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

**R5-222278 Correction to NR MDT test case 8.1.6.1.4.8**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2904 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK*

**Discussion:**

+NR!

r1

**Decision:** The document was **revised to R5-223385**.

**R5-223385 Correction to NR MDT test case 8.1.6.1.4.8**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2904 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK*

(Replaces R5-222278)

**Decision:** The document was **agreed**.

**R5-222376 Correction to Inter-System MDT test case 8.1.6.3.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2907 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222671 Correction to SON-MDT test case 8.1.6.1.2.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2927 Cat: F (Rel-16)  
  
 Source: Starpoint,  MediaTek Inc*

**Discussion:**

r1

updated based on TF160 feedback.

Deadline still ok.

**Decision:** The document was **revised to R5-223496**.

**R5-223496 Correction to SON-MDT test case 8.1.6.1.2.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2927 rev 1 Cat: F (Rel-16)  
  
 Source: Starpoint,  MediaTek Inc*

(Replaces R5-222671)

**Decision:** The document was **agreed**.

**R5-222995 Correction to MDT test case 8.1.6.1.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2964 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Decision:** The document was **agreed**.

**R5-223052 Update of NR MDT test case 8.1.6.1.4.5**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2970 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **agreed**.

**R5-223059 Update of NR MDT test case 8.1.6.3.4.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2971 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **agreed**.

**R5-223071 Update of NR MDT test case 8.1.6.3.2.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2979 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223386**.

**R5-223386 Update of NR MDT test case 8.1.6.3.2.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2979 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces R5-223071)

**Decision:** The document was **agreed**.

**R5-223086 Update of NR MDT test case 8.1.6.1.2.12**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2982 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

Deferred.

**Decision:** The document was **withdrawn**.

**R5-223264 Update of test case 8.1.6.1.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2991 Cat: F (Rel-16)  
  
 Source: MediaTek*

**Decision:** The document was **agreed**.

**R5-223273 Update of test case TC 8.1.6.2.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2996 Cat: F (Rel-16)  
  
 Source: MediaTek*

**Discussion:**

late doc

**Decision:** The document was **agreed**.

**R5-223274 Update to test case 8.1.6.1.3.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2997 Cat: F (Rel-16)  
  
 Source: MediaTek*

**Discussion:**

late doc

**Decision:** The document was **agreed**.

##### 6.3.13.5 TS 38.523-2

##### 6.3.13.6 TS 38.523-3

##### 6.3.13.7 Discussion Papers, Work Plan, TC lists

#### 6.3.14 Physical Layer Enhancements for NR Ultra-Reliable and Low Latency Communication (URLLC) (UID-900054) NR\_L1enh\_URLLC-UEConTest

##### 6.3.14.1 TS 38.508-1

##### 6.3.14.2 TS 38.508-2

##### 6.3.14.3 TS 38.523-1

**R5-222953 Correction to NR URLLC MAC Test Case 7.1.1.4.1.5**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2961 Cat: F (Rel-16)  
  
 Source: Lenovo, MCC TF160*

**Decision:** The document was **agreed**.

**R5-222954 Correction to NR URLLC MAC Test Case 7.1.1.4.2.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2962 Cat: F (Rel-16)  
  
 Source: Lenovo, MCC TF160*

**Decision:** The document was **agreed**.

##### 6.3.14.4 TS 38.523-2

##### 6.3.14.5 TS 38.523-3

##### 6.3.14.6 Discussion Papers, Work Plan, TC lists

#### 6.3.15 New Rel-17 NR licensed bands and extension of existing NR bands (UID - 900055) NR\_lic\_bands\_BW\_R17-UEConTest

##### 6.3.15.1 TS 38.508-1

##### 6.3.15.2 TS 38.508-2

##### 6.3.15.3 TS 38.523-3

##### 6.3.15.4 Discussion Papers, Work Plan, TC lists

#### 6.3.16 Rel-17 NR CA and DC; and NR and LTE DC Configurations (UID-900056) NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest

##### 6.3.16.1 TS 38.508-1

##### 6.3.16.2 TS 38.508-2

##### 6.3.16.3 TS 38.523-1

##### 6.3.16.4 TS 38.523-2

##### 6.3.16.5 TS 38.523-3

##### 6.3.16.6 Discussion Papers, Work Plan, TC lists

#### 6.3.17 NR Positioning Support (UID-900057) NR\_pos-UEConTest

##### 6.3.17.1 TS 38.508-1

**R5-222610 Addition of scheduling information for positioning system information blocks**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2330 Cat: F (Rel-17)  
  
 Source: CATT*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223387**.

**R5-223387 Addition of scheduling information for positioning system information blocks**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2330 rev 1 Cat: F (Rel-17)  
  
 Source: CATT*

(Replaces R5-222610)

**Decision:** The document was **agreed**.

##### 6.3.17.2 TS 38.508-2

##### 6.3.17.3 TS 38.509

##### 6.3.17.4 TS 37.571-2

**R5-222605 Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer**

*Type: CR For: Agreement  
 37.571-2 v16.11.0 CR-0158 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223388**.

**R5-223388 Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer**

*Type: CR For: Agreement  
 37.571-2 v16.11.0 CR-0158 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces R5-222605)

**Decision:** The document was **agreed**.

**R5-222606 Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset**

*Type: CR For: Agreement  
 37.571-2 v16.11.0 CR-0159 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223389**.

**R5-223389 Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset**

*Type: CR For: Agreement  
 37.571-2 v16.11.0 CR-0159 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces R5-222606)

**Decision:** The document was **agreed**.

**R5-222607 Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer**

*Type: CR For: Agreement  
 37.571-2 v16.11.0 CR-0160 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223390**.

**R5-223390 Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer**

*Type: CR For: Agreement  
 37.571-2 v16.11.0 CR-0160 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces R5-222607)

**Decision:** The document was **agreed**.

##### 6.3.17.5 TS 37.571-3

**R5-222609 Addition of test applicabilities for positioning SI messages offset test case**

*Type: CR For: Agreement  
 37.571-3 v16.11.0 CR-0153 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223391**.

**R5-223391 Addition of test applicabilities for positioning SI messages offset test case**

*Type: CR For: Agreement  
 37.571-3 v16.11.0 CR-0153 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces R5-222609)

**Decision:** The document was **agreed**.

##### 6.3.17.6 TS 37.571-4

##### 6.3.17.7 TS 37.571-5

##### 6.3.17.8 Discussion Papers, Work Plan, TC lists

##### 6.3.17.9 TS 38.523-3

**R5-222377 NR Positioning: addition of posSIBs support**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2513 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

#### 6.3.18 2-step RACH for NR (UID-911001) NR\_2step\_RACH-UEConTest

##### 6.3.18.1 TS 38.508-1

##### 6.3.18.2 TS 38.508-2

##### 6.3.18.3 TS 38.523-1

##### 6.3.18.4 TS 38.523-2

##### 6.3.18.5 TS 38.523-3

##### 6.3.18.6 Discussion Papers, Work Plan, TC lists

#### 6.3.19 Support of eCall over IMS for NR (UID-911002) NR\_EIEI-UEConTest

##### 6.3.19.1 TS 38.508-1

**R5-223250 Hardcoding USIM configurations**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2412 Cat: F (Rel-17)  
  
 Source: Qualcomm India Pvt Ltd*

**Decision:** The document was **agreed**.

##### 6.3.19.2 TS 38.508-2

##### 6.3.19.3 TS 38.523-1

**R5-223249 Update to NR EIEI test cases 11.5.1, 11.5.2, 11.5.5**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2986 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, CETECOM GmbH*

**Decision:** The document was **agreed**.

**R5-223257 Addition of new NR EIEI test case 8.1.4.1.10**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2988 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223392**.

**R5-223392 Addition of new NR EIEI test case 8.1.4.1.10**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2988 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223257)

**Decision:** The document was **agreed**.

**R5-223260 Addition of NR EIEI test case 11.5.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2989 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223393**.

**R5-223393 Addition of NR EIEI test case 11.5.6**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2989 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223260)

**Decision:** The document was **agreed**.

**R5-223263 Addition of NR EIEI test case 11.5.7**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2990 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223394**.

**R5-223394 Addition of NR EIEI test case 11.5.7**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2990 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223263)

**Decision:** The document was **agreed**.

**R5-223265 Addition of NR EIEI test case 11.5.9**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2992 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223395**.

**R5-223395 Addition of NR EIEI test case 11.5.9**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2992 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223265)

**Decision:** The document was **agreed**.

**R5-223267 Addition of NR EIEI test case 11.5.10**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2993 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223396**.

**R5-223396 Addition of NR EIEI test case 11.5.10**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2993 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223267)

**Decision:** The document was **agreed**.

**R5-223268 Addition of NR EIEI test case 11.5.11**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2994 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223397**.

**R5-223397 Addition of NR EIEI test case 11.5.11**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2994 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223268)

**Decision:** The document was **agreed**.

**R5-223270 Addition of NR EIEI test case 11.5.13**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2995 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223398**.

**R5-223398 Addition of NR EIEI test case 11.5.13**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2995 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

(Replaces R5-223270)

**Decision:** The document was **agreed**.

##### 6.3.19.4 TS 38.523-2

**R5-223255 Applicability updates to NR EIEI test cases**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0227 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Discussion:**

Deferred.

**Decision:** The document was **agreed**.

##### 6.3.19.5 TS 38.523-3

##### 6.3.19.6 TS 34.229-1

##### 6.3.19.7 TS 34.229-2

##### 6.3.19.8 TS 34.229-3

##### 6.3.19.9 TS 34.229-5

##### 6.3.19.10 Discussion Papers, Work Plan, TC lists

#### 6.3.20 NR-based access to unlicensed spectrum (UID-911003) NR\_unlic-UEConTest

##### 6.3.20.1 TS 38.508-1

##### 6.3.20.2 TS 38.508-2

##### 6.3.20.3 TS 38.509

##### 6.3.20.4 TS 38.523-1

##### 6.3.20.5 TS 38.523-2

##### 6.3.20.6 TS 38.523-3

##### 6.3.20.7 Discussion Papers, Work Plan, TC lists

#### 6.3.21 LTE-NR & NR-NR Dual Connectivity and NR CA enhancements (UID-911004) LTE\_NR\_DC\_CA\_enh-UEConTest

##### 6.3.21.1 TS 38.508-1

**R5-222132 Addition of SIB11 to common environment for early measurements**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2295 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r1

**Decision:** The document was **revised to R5-223399**.

**R5-223399 Addition of SIB11 to common environment for early measurements**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2295 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222132)

**Decision:** The document was **agreed**.

**R5-222691 Modification of SIB1 in common environment for idle/inactive measurements**

*Type: CR For: Agreement  
 38.508-1 v16.8.0 CR-2345 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

is v17.4.0!! reissued as R5-223290 because of wrong Rel. and ver.

R5

**Decision:** The document was **withdrawn**.

**R5-223290 Modification of SIB1 in common environment for idle/inactive measurements**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2414 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

reissued from R5-222691 because of wrong Rel. and ver.

**Discussion:**

r1

**Decision:** The document was **revised to R5-223400**.

**R5-223400 Modification of SIB1 in common environment for idle/inactive measurements**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2414 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223290)

**Decision:** The document was **agreed**.

##### 6.3.21.2 TS 38.508-2

**R5-222996 Addition of Measurement Capabilities for Idle/Inactive measurements testcase**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0333 Cat: F (Rel-17)  
  
 Source: TDIA, CATT*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223401**.

**R5-223401 Addition of Measurement Capabilities for Idle/Inactive measurements testcase**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0333 rev 1 Cat: F (Rel-17)  
  
 Source: TDIA, CATT*

(Replaces R5-222996)

**Decision:** The document was **agreed**.

##### 6.3.21.3 TS 38.523-1

**R5-222656 Modification of testcase 8.1.5.11.2 Idle/Inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2926 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r2

**Decision:** The document was **revised to R5-223402**.

**R5-223402 Modification of testcase 8.1.5.11.2 Idle/Inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2926 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222656)

**Decision:** The document was **agreed**.

**R5-222705 Modification of testcase 8.1.5.11.3 Idle/Inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2929 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r2

**Decision:** The document was **revised to R5-223403**.

**R5-223403 Modification of testcase 8.1.5.11.3 Idle/Inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2929 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222705)

**Decision:** The document was **agreed**.

**R5-222951 Addition of new NR-NR Dual Connectivity test case**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2960 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223497**.

**R5-223497 Addition of new NR-NR Dual Connectivity test case**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2960 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222951)

**Decision:** The document was **agreed**.

**R5-223019 Correction to Idle/Inactive measurements TC 8.1.5.11.5**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2966 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Decision:** The document was **withdrawn**.

**R5-223020 Correction to Idle/Inactive measurements TC 8.1.5.11.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2967 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

**R5-223062 Modification of testcase 8.1.5.11.4 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2973 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r2

**Decision:** The document was **revised to R5-223404**.

**R5-223404 Modification of testcase 8.1.5.11.4 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2973 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223062)

**Decision:** The document was **agreed**.

**R5-223202 Modification of testcase 8.1.5.11.5 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2984 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r2

**Decision:** The document was **revised to R5-223405**.

**R5-223405 Modification of testcase 8.1.5.11.5 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2984 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223202)

**Decision:** The document was **agreed**.

**R5-223247 Modification of testcase 8.1.5.11.6 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2985 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r2

**Decision:** The document was **revised to R5-223406**.

**R5-223406 Modification of testcase 8.1.5.11.6 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2985 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223247)

**Decision:** The document was **agreed**.

**R5-223282 Modification of testcase 8.1.5.11.1 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2999 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r1

**Decision:** The document was **revised to R5-223407**.

**R5-223407 Modification of testcase 8.1.5.11.1 idle/inactive measurements**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2999 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223282)

**Decision:** The document was **withdrawn**.

##### 6.3.21.4 TS 38.523-2

**R5-222952 Addition of Applicability of new NR-NR Dual Connectivity test case**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0225 Cat: F (Rel-16)  
  
 Source: Lenovo*

**Discussion:**

late doc

meetg. nr!

r1

**Decision:** The document was **revised to R5-223408**.

**R5-223408 Addition of Applicability of new NR-NR Dual Connectivity test case**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0225 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo*

(Replaces R5-222952)

**Discussion:**

agreed.

Later Tf160 manager noted a title problem.

Test case clause numbers not aligned with TS 38.523-1 and Work Plan included in the applicability table of TS 38.523-2.

**Decision:** The document was **not pursued**.

**R5-223014 Update applicability for Idle/Inactive measurements test cases**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0226 Cat: F (Rel-16)  
  
 Source: TDIA, CATT*

**Discussion:**

Deferred.

**Decision:** The document was **withdrawn**.

**R5-223256 Modification of idle/inactive testcase applicabilities**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0228 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

R5

r1

**Decision:** The document was **revised to R5-223409**.

**R5-223409 Modification of idle/inactive testcase applicabilities**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0228 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-223256)

**Decision:** The document was **agreed**.

##### 6.3.21.5 TS 38.523-3

##### 6.3.21.6 Discussion Papers, Work Plan, TC lists

#### 6.3.22 29 dBm UE Power Class for LTE Band 41 and NR Band n41 (UID-920068) LTE\_NR\_B41\_Bn41\_PC29dBm-UEConTest

##### 6.3.22.1 TS 38.523-1

##### 6.3.22.2 Discussion Papers, Work Plan, TC lists

#### 6.3.23 Multi-SIM devices for LTE/NR (UID-950060) LTE\_NR\_MUSIM\_plus\_CT1-UEConTest

##### 6.3.23.1 TS 38.508-1

##### 6.3.23.2 TS 38.508-2

##### 6.3.23.3 TS 38.523-1

##### 6.3.23.4 TS 38.523-2

##### 6.3.23.5 TS 38.523-3

##### 6.3.23.6 TS 36.508

##### 6.3.23.7 TS 36.523-1

##### 6.3.23.8 TS 36.523-2

##### 6.3.23.9 TS 36.523-3

##### 6.3.23.10 Discussion Papers, Work Plan, TC lists

#### 6.3.24 NR Multicast and Broadcast Services including CT and SA aspects (UID-950061) NR\_MBS\_5MBS\_5MBUSA-UEConTest

##### 6.3.24.1 TS 38.508-1

**R5-222842 Add Default configuration for DCI format 4\_0 scheduling MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2355 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222843 Add Default configuration for DCI format 4\_1 scheduling MBS Multicast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2356 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222844 Add test procedures for MBS Multicast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2357 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222845 Update MBS related parameters into PDU session establishment request**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2358 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222846 Update MBS related parameters into PDU session establishment accept**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2359 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222847 Update MBS related parameters into PDU session modification request**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2360 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222848 Update MBS related parameters into PDU session modification command**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2361 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222849 Add SI combination for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2362 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222850 Add SIB20 for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2363 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222851 Add SIB21 for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2364 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222852 Add MBSBroadcastConfiguration for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2365 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222853 Add MBSInterestIndication for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2366 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222854 Add MBS information elements for MBS test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2367 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

used unfrozen ASN.1, will be resubmitted in the next meeting.

**Decision:** The document was **withdrawn**.

**R5-222855 Add PICS for MBS test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2368 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223092 Add Default configuration for DCI format 4\_0 scheduling MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2384 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223093 Add Default configuration for DCI format 4\_1 scheduling MBS Multicast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2385 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223094 Add test procedures for MBS Multicast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2386 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223095 Update MBS related parameters into PDU session establishment request**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2387 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223096 Update MBS related parameters into PDU session establishment accept**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2388 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223097 Update MBS related parameters into PDU session modification request**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2389 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223098 Update MBS related parameters into PDU session modification command**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2390 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223099 Add SI combination for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2391 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223100 Add SIB20 for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2392 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223101 Add SIB21 for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2393 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223102 Add MBSBroadcastConfiguration for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2394 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223103 Add MBSInterestIndication for MBS Broadcast test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2395 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223104 Add MBS information elements for MBS test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2396 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

##### 6.3.24.2 TS 38.508-2

**R5-223105 Add PICS for MBS test**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0336 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

##### 6.3.24.3 TS 38.509

##### 6.3.24.4 TS 38.523-1

##### 6.3.24.5 TS 38.523-2

##### 6.3.24.6 TS 38.523-3

##### 6.3.24.7 Discussion Papers, Work Plan, TC lists

#### 6.3.25 NR coverage enhancements (UID-950063) NR\_cov\_enh-UEConTest

##### 6.3.25.1 TS 38.508-1

##### 6.3.25.2 TS 38.508-2

##### 6.3.25.3 TS 38.523-1

##### 6.3.25.4 TS 38.523-2

##### 6.3.25.5 TS 38.523-3

##### 6.3.25.6 Discussion Papers, Work Plan, TC lists

#### 6.3.26 Enhancement of data collection for SON (Self-Organising Networks)/MDT (Minimization of Drive Tests) in NR standalone and MR-DC (Multi-Radio Dual Connectivity) (UID-950064) NR\_ENDC\_SON\_MDT\_enh-UEConTest

##### 6.3.26.1 TS 38.508-1

##### 6.3.26.2 TS 38.508-2

##### 6.3.26.3 TS 38.523-1

##### 6.3.26.4 TS 38.523-2

##### 6.3.26.5 TS 38.523-3

##### 6.3.26.6 Discussion Papers, Work Plan, TC lists

#### 6.3.27 Enhancement of Network Slicing Phase 2 (Multi-Radio Dual Connectivity) (UID-950065) eNS\_Ph2-UEConTest

##### 6.3.27.1 TS 38.508-1

**R5-222460 Updates to REGISTRATION ACCEPT message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2312 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222461 Updates to Configuration Update Command message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2313 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222462 Updates to Registration Reject message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2314 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222463 Updates to De-registration Request message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2315 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

##### 6.3.27.2 TS 38.508-2

**R5-222459 Addition of UE capability for NSSRG**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0322 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

##### 6.3.27.3 TS 38.523-1

##### 6.3.27.4 TS 38.523-2

##### 6.3.27.5 TS 38.523-3

##### 6.3.27.6 Discussion Papers, Work Plan, TC lists

#### 6.3.28 Support of reduced capability NR devices (UID-950066) NR\_redcap\_plus\_ARCH-UEConTest

##### 6.3.28.1 TS 38.508-1

**R5-222649 Addition of abbreviations for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2340 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223410**.

**R5-223410 Addition of abbreviations for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2340 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222649)

**Decision:** The document was **agreed**.

**R5-222650 Correction to general functional requirements for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2341 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

**R5-222651 Correction to generic procedure for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2342 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

Deferred.

After discussion with TF160 experts it’s found that the changes made in following Huawei/Hisilicon CRs are no longer needed.

**Decision:** The document was **withdrawn**.

**R5-222652 Correction to Radio reference configurations for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2343 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

**Discussion:**

CR coversheet:

Correction to generic procedure for RedCap test"

r1

Deferred.

After discussion with TF160 experts it’s found that the changes made in following Huawei/Hisilicon CRs are no longer needed.

r2

**Decision:** The document was **revised to R5-223354**.

**R5-223354 Correction to Radio reference configurations for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2343 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Hisilicon*

(Replaces R5-222652)

**Decision:** The document was **withdrawn**.

**R5-222821 Update SIB1 for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2347 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

TF160 manager: can be technically endorsed, but shall be set as ‘Not pursued’ as it contains unfrozen Rel-17 ASN.1.

**Decision:** The document was **revised to R5-223411**.

**R5-223411 Update SIB1 for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2347 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222821)

**Decision:** The document was **not pursued**.

**R5-222822 Update SIB2 and SIB4 for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2348 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

Configure RedCap related IE in specific test cases.

**Decision:** The document was **withdrawn**.

**R5-222823 Update the SN-FiledLengh of PDCP-Config and RLC-Config for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2349 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

Already reviewed by TF160 expert, but we just found all the corrected Ies in this prose CR belong to R15. We do not touch the unfrozen R17 Ies designed for Redcap. I don’t have strong view whether we could agree this CR or not since I think it is not actual R17 ASN.1 dependency. However, I’m not sure if it will have effect on TF160 implementation. If it’s not agreed, we are also OK to re-submit it at the next meeting.

**Decision:** The document was **revised to R5-223412**.

**R5-223412 Update the SN-FiledLengh of PDCP-Config and RLC-Config for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2349 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222823)

**Decision:** The document was **not pursued**.

**R5-222824 Update RRCReconfiguration and UEAssistanceInformation for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2350 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

Configure UEAssistanceInformation and RRM relax measurement related IE in specific test cases, and RRCReconfiguraion for update SN for PDCP and RLC is covered by the R5-222823r1.

**Decision:** The document was **withdrawn**.

**R5-222825 Add initialDownlinkBWP-RedCap into initialDownlinkBWP for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2351 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

Change CBW for RedCap UE to 20Mhz for n41,n77,n78 in 6.3.2 so R5-222825 is not needed.

**Decision:** The document was **withdrawn**.

**R5-222826 Add initialUplinkBWP-RedCap into initialUplinkBWP for RedCap test**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2352 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

Change CBW for RedCap UE to 20Mhz for n41,n77,n78 in 6.3.2 so R5-222825 is not needed.

**Decision:** The document was **withdrawn**.

##### 6.3.28.2 TS 38.508-2

**R5-222827 Add PICS for RedCap test**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0328 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

TF160 manager: best to not pursue R5-222827 at RAN5#95-e and bring it back at RAN5#96-e with only the necessary PICS.

RAN5 Chair: agreed.

**Decision:** The document was **agreed**.

##### 6.3.28.3 TS 38.523-1

##### 6.3.28.4 TS 38.523-2

##### 6.3.28.5 TS 38.523-3

##### 6.3.28.6 Discussion Papers, Work Plan, TC lists

**R5-222804 Discussion paper on legacy test cases extension for Redcap**

*Type: discussion For: Endorsement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **noted**.

### 6.4 Routine Maintenance for TS 38 Series TEIx\_Test

#### 6.4.1 TS 38.508-1

##### 6.4.1.1 Generic Procedures and Test Procedures (Clauses 4.5, 4.5A & 4.9)

**R5-222122 Correction for Procedure for UE-requested PDU session modification after the first S1 to N1 mode change**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2294 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

**R5-222512 Correction to generic procedure 4.9.28**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2319 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK, Rohde & Schwarz*

**Decision:** The document was **agreed**.

**R5-222933 Update of auxiliary procedure 4.5A.2B**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2374 Cat: F (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **agreed**.

**R5-222989 Update of Test procedure for IMS MO Emergency call release**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2375 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

r1

WIC update

**Decision:** The document was **revised to R5-223341**.

**R5-223341 Update of Test procedure for IMS MO Emergency call release**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2375 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces R5-222989)

**Decision:** The document was **agreed**.

**R5-223081 Updates to Test procedure 4.9.15**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2380 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223413**.

**R5-223413 Updates to Test procedure 4.9.15**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2380 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223081)

**Decision:** The document was **agreed**.

**R5-223084 Corrections to usages of Annex A.6 of TS 34.229-5**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2382 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-223276 Correction to test procedure 4.9.11**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2413 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, ROHDE & SCHWARZ*

**Discussion:**

late doc

MCC TF160 suggested to have a test case (11.4.4 of TS 38.523-1) specific change.

w/d

reissued as R5-223350.

**Decision:** The document was **withdrawn**.

##### 6.4.1.2 Default NG-RAN RRC messages and IEs (Clause 4.6)

**R5-222379 Editorial updates to SIBs**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2307 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223414**.

**R5-223414 Editorial updates to SIBs**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2307 rev 1 Cat: F (Rel-17)  
  
 Source: MCC TF160*

(Replaces R5-222379)

**Decision:** The document was **agreed**.

**R5-222380 Updating RRCReconfiguration and RadioBearerConfig for NR-DC and NE-DC**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2308 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222409 Update IE SIB3**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2309 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**R5-222513 Editorial update RRCReconfiguration**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2320 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222565 Update IE P-Max**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2324 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222566 Editorial update IE FreqBandList**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2325 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222567 Editorial update IE CellGroupConfig**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2326 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222568 Editorial update IE CellGroupId**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2327 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222570 Editorial update IE PDCCH-ConfigCommon**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2328 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222657 Editorial update IE SCellIndex**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2344 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223158 Editorial update IE ServCellIndex**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2399 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 6.4.1.3 Default 5GC NAS messages and IEs (Clause 4.7)

**R5-223082 Updates to Data-off condition for PDU SESSION ESTABLISHMENT REQUEST message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2381 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Deferred.

r2

**Decision:** The document was **revised to R5-223415**.

**R5-223415 Updates to Data-off condition for PDU SESSION ESTABLISHMENT REQUEST message**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2381 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces R5-223082)

**Decision:** The document was **agreed**.

##### 6.4.1.4 Test environment for SIG (Clause 6)

**R5-222265 Resolving test frequency for n53 10 Mhz CBW**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2299 Cat: F (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

Deferred.

r2

**Decision:** The document was **revised to R5-223416**.

**R5-223416 Resolving test frequency for n53 10 Mhz CBW**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2299 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

(Replaces R5-222265)

**Decision:** The document was **agreed**.

##### 6.4.1.5 Other clauses, Annexes

**R5-222464 Update of Combinations of system information blocks for NE-DC**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2316 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **agreed**.

**R5-222835 Correction to Combinations of system information blocks**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2353 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223417**.

**R5-223417 Correction to Combinations of system information blocks**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2353 rev 1 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222835)

**Decision:** The document was **agreed**.

#### 6.4.2 TS 38.508-2

**R5-222266 Addition of new PICS for 3GPP PS Data off**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0320 Cat: F (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

Deferred.

**Decision:** The document was **agreed**.

**R5-222817 Add PICS for PUCCH Scell**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0327 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

**Decision:** The document was **agreed**.

**R5-222950 Introduce and update PICS**

*Type: CR For: Agreement  
 38.508-2 v17.4.0 CR-0332 Cat: F (Rel-17)  
  
 Source: Lenovo, Qualcomm*

**Decision:** The document was **agreed**.

#### 6.4.3 TS 38.509

**R5-222381 Update UE location information**

*Type: CR For: Agreement  
 38.509 v15.12.0 CR-0059 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

#### 6.4.4 TS 38.523-1

##### 6.4.4.1 Clauses 1 - 5

##### 6.4.4.2 Idle Mode (Clause 6)

**R5-222814 Correction to NR TC 6.3.1.10-SOR during Mobility Update Registration**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2944 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

other solution by Keysight's R5-223087.

**Decision:** The document was **withdrawn**.

**R5-223087 Correction to SOR test case 6.3.1.10**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2983 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, Huawei, HiSilicon*

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223418**.

**R5-223418 Correction to SOR test case 6.3.1.10**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2983 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, Huawei, HiSilicon*

(Replaces R5-223087)

**Decision:** The document was **agreed**.

##### 6.4.4.3 Layer 2

###### 6.4.4.3.1 NR Layer 2

6.4.4.3.1.1 Common Test Case Specific Values for Layer 2 (Clause 7.1.0)

6.4.4.3.1.2 MAC

**R5-222111 Correction to NR MAC test case 7.1.1.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2878 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm, Rohde&Schwarz*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223419**.

**R5-223419 Correction to NR MAC test case 7.1.1.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2878 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm, Rohde&Schwarz*

(Replaces R5-222111)

**Decision:** The document was **agreed**.

**R5-222112 Correction to NR MAC test case 7.1.1.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2879 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223420**.

**R5-223420 Correction to NR MAC test case 7.1.1.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2879 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm*

(Replaces R5-222112)

**Decision:** The document was **agreed**.

**R5-222113 Correction to NR MAC test case 7.1.1.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2880 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm*

**Discussion:**

Deferred.

**Decision:** The document was **agreed**.

**R5-222749 Correction to NR MAC test cases 7.1.1.4.2.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2938 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

received some comments.

Deferred.

Were not able to resolve the concerns raised in the CR in time for this meeting.

We plan to work further and raise correction in the next meeting, if needed.

**Decision:** The document was **withdrawn**.

**R5-222811 Correction to NR TC 7.1.1.10.1-DataInactivityTimer expiry**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2941 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222812 Correction to NR TC 7.1.1.7.1.1-Activation and Deactivation of Scells**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2942 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

6.4.4.3.1.3 RLC

**R5-223085 Correction to NR RLC test case 7.1.2.3.7**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2981 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **agreed**.

6.4.4.3.1.4 PDCP

**R5-222382 Correction to NR PDCP test case 7.1.3.5.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2908 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222383 Corrections to NR IIoT PDCP test cases 7.1.3.5.6.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2909 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Discussion:**

cover

r1

**Decision:** The document was **revised to R5-223421**.

**R5-223421 Corrections to NR IIoT PDCP test cases 7.1.3.5.6.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2909 rev 1 Cat: F (Rel-16)  
  
 Source: MCC TF160*

(Replaces R5-222383)

**Decision:** The document was **agreed**.

**R5-222447 Correction to NR5GC testcase 7.1.3.4.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2916 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223422**.

**R5-223422 Correction to NR5GC testcase 7.1.3.4.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2916 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222447)

**Decision:** The document was **agreed**.

**R5-222511 Correction to NR PDCP test case 7.1.3.4.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2923 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

6.4.4.3.1.5 SDAP

**R5-222114 Correction to NR SDAP test case 7.1.4.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2881 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Decision:** The document was **agreed**.

##### 6.4.4.4 RRC

###### 6.4.4.4.1 NR RRC

6.4.4.4.1.1 RRC Connection Management Procedures (clause 8.1.1)

**R5-222261 Editorial update of NR RRC TC 8.1.1.3.7b**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2894 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **agreed**.

**R5-222838 Correction to NR5GC testcase 8.1.1.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2949 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223423**.

**R5-223423 Correction to NR5GC testcase 8.1.1.2.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2949 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222838)

**Decision:** The document was **agreed**.

6.4.4.4.1.2 RRC Reconfiguration (clause 8.1.2)

6.4.4.4.1.3 RRC Measurement Configuration Control and Reporting (clause 8.1.3)

**R5-222179 Update to SRVCC from 5G to 3G test case 8.1.3.2.6 and 8.1.3.2.7**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2890 Cat: F (Rel-16)  
  
 Source: CATT, TDIA*

**Discussion:**

cl. aff.

r1

**Decision:** The document was **revised to R5-223342**.

**R5-223342 Update to SRVCC from 5G to 3G test case 8.1.3.2.6 and 8.1.3.2.7**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2890 rev 1 Cat: F (Rel-16)  
  
 Source: CATT, TDIA*

(Replaces R5-222179)

**Decision:** The document was **agreed**.

**R5-222262 Editorial update of NR RRC TC 8.1.3.1.20**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2895 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **agreed**.

**R5-223068 Correction of cell number in the test procedure of 8.1.3.1.15A**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2977 Cat: F (Rel-16)  
  
 Source: OPPO, ZEKU*

**Discussion:**

TEI-15!

r1

**Decision:** The document was **revised to R5-223343**.

**R5-223343 Correction of cell number in the test procedure of 8.1.3.1.15A**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2977 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO, ZEKU*

(Replaces R5-223068)

**Decision:** The document was **agreed**.

6.4.4.4.1.4 RRC Handover (clause 8.1.4)

6.4.4.4.1.5 RRC Others (clause 8.1.5)

**R5-222115 Correction to NR RRC test case 8.1.5.2.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2882 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm*

**Decision:** The document was **agreed**.

**R5-222418 Correction to NR5GC testcase 8.1.5.9.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2912 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, MCC TF 160*

**Decision:** The document was **agreed**.

**R5-222816 Correction to NR CA TC 8.1.5.7.1-CA duplication**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2946 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,Starpoint*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223424**.

**R5-223424 Correction to NR CA TC 8.1.5.7.1-CA duplication**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2946 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon,Starpoint*

(Replaces R5-222816)

**Decision:** The document was **agreed**.

**R5-222934 Update of RACS TC 8.1.5.9.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2951 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

TEI16?

r2

**Decision:** The document was **revised to R5-223425**.

**R5-223425 Update of RACS TC 8.1.5.9.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2951 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces R5-222934)

**Decision:** The document was **agreed**.

###### 6.4.4.4.2 MR-DC RRC

6.4.4.4.2.1 RRC UE Capability / Others (clause 8.2.1)

**R5-222469 Update of test case 8.2.1.1.2 for UE capability transfer in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2920 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

filename, WIC

r1

**Decision:** The document was **revised to R5-223344**.

**R5-223344 Update of test case 8.2.1.1.2 for UE capability transfer in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2920 rev 1 Cat: F (Rel-16)  
  
 Source: CMCC*

(Replaces R5-222469)

**Decision:** The document was **agreed**.

6.4.4.4.2.2 RRC Radio Bearer (clause 8.2.2)

**R5-222470 Update of test case 8.2.2.4.3 for SCG DRB in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2921 Cat: F (Rel-16)  
  
 Source: CMCC, MCC TF160*

**Decision:** The document was **agreed**.

6.4.4.4.2.3 RRC Measurement / Handovers (clause 8.2.3)

**R5-222272 Correction to EN-DC RRC TC 8.2.3.17.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2901 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd*

**Decision:** The document was **agreed**.

**R5-222466 Update of test case 8.2.3.6.2 for Intra-frequency measurements Event A3 in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2917 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

filename, WIC

r1

**Decision:** The document was **revised to R5-223345**.

**R5-223345 Update of test case 8.2.3.6.2 for Intra-frequency measurements Event A3 in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2917 rev 1 Cat: F (Rel-16)  
  
 Source: CMCC*

(Replaces R5-222466)

**Decision:** The document was **agreed**.

**R5-222467 Update of test case 8.2.3.6.2a for Inter-frequency measurements Event A3 in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2918 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

filename, WIC

r1

**Decision:** The document was **revised to R5-223346**.

**R5-223346 Update of test case 8.2.3.6.2a for Inter-frequency measurements Event A3 in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2918 rev 1 Cat: F (Rel-16)  
  
 Source: CMCC*

(Replaces R5-222467)

**Decision:** The document was **agreed**.

**R5-222468 Update of test case 8.2.3.6.2b for Inter-band measurements Event A3 in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2919 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

filename, WIC

r1

**Decision:** The document was **revised to R5-223347**.

**R5-223347 Update of test case 8.2.3.6.2b for Inter-band measurements Event A3 in NE-DC**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2919 rev 1 Cat: F (Rel-16)  
  
 Source: CMCC*

(Replaces R5-222468)

**Decision:** The document was **agreed**.

6.4.4.4.2.4 RRC Carrier Aggregation (clause 8.2.4)

6.4.4.4.2.5 RRC Reconfiguration / Radio Link Failure (clause 8.2.5)

**R5-222707 Addition of new test case 8.2.5.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2930 Cat: F (Rel-16)  
  
 Source: Element Materials Technology*

**Discussion:**

cl. aff.

r2

**Decision:** The document was **revised to R5-223426**.

**R5-223426 Addition of new test case 8.2.5.3.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2930 rev 1 Cat: F (Rel-16)  
  
 Source: Element Materials Technology*

(Replaces R5-222707)

**Decision:** The document was **agreed**.

**R5-222708 Addition of new test case 8.2.5.4.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2931 Cat: F (Rel-16)  
  
 Source: Element Materials Technology*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

6.4.4.4.2.6 RRC Others (clause 8.2.6)

**R5-222653 Correction to EN-DC TC 8.2.6.1.1.x - RLC failure**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2925 Cat: F (Rel-16)  
  
 Source: Huawei,Hisilicon*

**Decision:** The document was **agreed**.

6.4.4.4.2.7 RRC Resume (clause 8.2.7)

##### 6.4.4.5 5GS Mobility Management

###### 6.4.4.5.1 MM Primary authentication and key agreement (clause 9.1.1)

###### 6.4.4.5.2 MM Security mode control, Identification & Generic UE configuration update (clauses 9.1.2, 9.1.3 & 9.1.4)

###### 6.4.4.5.3 MM Registration & De-registration (clauses 9.1.5 & 9.1.6)

**R5-222935 Update of 5GMM TC 9.1.5.1.15**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2952 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

TEI16? No 5GS!

r1

**Decision:** The document was **revised to R5-223427**.

**R5-223427 Update of 5GMM TC 9.1.5.1.15**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2952 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces R5-222935)

**Decision:** The document was **agreed**.

**R5-223069 Correction of Equivalent PLMN ID in the test procedure of 9.1.5.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2978 Cat: F (Rel-16)  
  
 Source: OPPO, ZEKU*

**Discussion:**

TEI-15

r1

**Decision:** The document was **revised to R5-223428**.

**R5-223428 Correction of Equivalent PLMN ID in the test procedure of 9.1.5.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2978 rev 1 Cat: F (Rel-16)  
  
 Source: OPPO, ZEKU*

(Replaces R5-223069)

**Decision:** The document was **agreed**.

###### 6.4.4.5.4 MM Service Request (clause 9.1.7)

###### 6.4.4.5.5 MM SMS Over NAS (clause 9.1.8)

###### 6.4.4.5.6 RACS (clause 9.1.9)

**R5-222120 Correction to RACS test case 9.1.9.7**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2887 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Huawei, HiSilicon*

**Decision:** The document was **agreed**.

**R5-222384 Update to UE Radio Capability Id field in RACS test cases**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2910 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-223252 Correction of USIM configuration in RACS test case 9.1.9.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2987 Cat: F (Rel-16)  
  
 Source: Qualcomm India Pvt Ltd*

**Decision:** The document was **agreed**.

###### 6.4.4.5.7 MM Network slice-specific authentication and authorization (clause 9.1.10)

**R5-222270 Correction to R16 eNS TC 9.1.10.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2899 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK, Anritsu Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223429**.

**R5-223429 Correction to R16 eNS TC 9.1.10.3**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2899 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK, Anritsu Ltd*

(Replaces R5-222270)

**Decision:** The document was **agreed**.

**R5-222271 Correction to R16 eNS TC 9.1.10.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2900 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

Deferred.

**Decision:** The document was **agreed**.

##### 6.4.4.6 5GS Non-3GPP Access Mobility Management (clause 9.2)

##### 6.4.4.7 5GS Inter-system Mobility (clause 9.3)

##### 6.4.4.8 5GS Session Management

###### 6.4.4.8.1 SM PDU session authentication and authorization (clause 10.1.1)

###### 6.4.4.8.2 SM Network-requested PDU session modification & release (clauses 10.1.2 & 10.1.3)

**R5-222273 Editorial update of NR TC 10.1.3.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2902 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **agreed**.

###### 6.4.4.8.3 SM UE-requested PDU session establishment, modification & release (clauses 10.1.4, 10.1.5 & 10.1.6)

##### 6.4.4.9 EN-DC Session Management (clause 10.2)

##### 6.4.4.10 5GS Non-3GPP Access Session Management (clause 10.3)

##### 6.4.4.11 5GS Multilayer and Services

###### 6.4.4.11.1 EPS Fallback (clause 11.1)

**R5-222277 Editorial update of NR TC 11.1.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2903 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **agreed**.

**R5-222279 Correction to NR5GC testcase 11.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2905 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Rohde&Schwarz, Anritsu Ltd, Keysight*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223430**.

**R5-223430 Correction to NR5GC testcase 11.1.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2905 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Rohde&Schwarz, Anritsu Ltd, Keysight*

(Replaces R5-222279)

**Decision:** The document was **agreed**.

**R5-222430 Update test case 11.1.1a**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2913 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222815 Correction to NR TC 11.1.2-EPS Fallback with redirection without N26**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2945 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223431**.

**R5-223431 Correction to NR TC 11.1.2-EPS Fallback with redirection without N26**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2945 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222815)

**Decision:** The document was **agreed**.

**R5-222858 Add test case 11.1.3a**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2950 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223432**.

**R5-223432 Add test case 11.1.3a**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2950 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-222858)

**Decision:** The document was **agreed**.

###### 6.4.4.11.2 5G-SRVCC (clause 11.2)

**R5-223021 Update of 5G-SRVCC TC 11.2.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2968 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

TEI16?

Deferred.

r1

**Decision:** The document was **revised to R5-223433**.

**R5-223433 Update of 5G-SRVCC TC 11.2.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2968 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces R5-223021)

**Decision:** The document was **agreed**.

###### 6.4.4.11.3 Unified Access Control (UAC) (clause 11.3)

**R5-222181 Correction to TC 11.3.8 UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2892 Cat: F (Rel-16)  
  
 Source: CATT, TDIA*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223434**.

**R5-223434 Correction to TC 11.3.8 UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2892 rev 1 Cat: F (Rel-16)  
  
 Source: CATT, TDIA*

(Replaces R5-222181)

**Decision:** The document was **agreed**.

**R5-222690 Correction to UAC test case 11.3.1a**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2928 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223435**.

**R5-223435 Correction to UAC test case 11.3.1a**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2928 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces R5-222690)

**Decision:** The document was **agreed**.

**R5-222753 Correction to NR TC 11.3.5-UAC New cell not in the country of its HPLMN**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2939 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Tdoc #

r2

**Decision:** The document was **revised to R5-223436**.

**R5-223436 Correction to NR TC 11.3.5-UAC New cell not in the country of its HPLMN**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2939 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222753)

**Decision:** The document was **agreed**.

**R5-222754 Correction to NR TC 11.3.6-UAC for Access Identity 2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2940 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223437**.

**R5-223437 Correction to NR TC 11.3.6-UAC for Access Identity 2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2940 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222754)

**Decision:** The document was **agreed**.

**R5-222813 Correction to NR TC 11.3.1-UAC for MO Speech Call and SMSoIP**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2943 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

###### 6.4.4.11.4 Emergency Services (clause 11.4)

**R5-222180 Correction of 5GS IMS test case 11.4.12**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2891 Cat: F (Rel-16)  
  
 Source: NTTDOCOMO,INC*

**Discussion:**

sub-AI

Deferred.

r2

**Decision:** The document was **revised to R5-223438**.

**R5-223438 Correction of 5GS IMS test case 11.4.12**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2891 rev 1 Cat: F (Rel-16)  
  
 Source: NTTDOCOMO,INC*

(Replaces R5-222180)

**Decision:** The document was **agreed**.

**R5-223047 Update of Emergency Services TC 11.4.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2969 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

late doc

overlapping with R5-223060r2.

AP94.01, after offline discussion decided to address this AP in R5-223060.

**Decision:** The document was **withdrawn**.

**R5-223060 Correction to Emergency Call test cases 11.4.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2972 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, MCC TF160, Mediatek*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223439**.

**R5-223439 Correction to Emergency Call test cases 11.4.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2972 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, MCC TF160, Mediatek*

(Replaces R5-223060)

**Decision:** The document was **agreed**.

**R5-223350 Correction to emergency services test case 11.4.4**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-3002 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, ROHDE & SCHWARZ*

**Abstract:**

reissued from R5-223276.

**Discussion:**

CR# 2930 -> 3002 !

**Decision:** The document was **agreed**.

###### 6.4.4.11.5 3GPP PS Data Off (clause 11.6)

**R5-222121 Correction to 3GPP PS Data Off test case 11.6.2**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2888 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Discussion:**

merged with R5-222267.

**Decision:** The document was **withdrawn**.

**R5-222267 Correction to NR5GC testcase 11.6.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2898 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd, Keysight UK*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223440**.

**R5-223440 Correction to NR5GC testcase 11.6.x**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2898 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd, Keysight UK*

(Replaces R5-222267)

**Decision:** The document was **agreed**.

**R5-223083 Updates to test case 11.6.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2980 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223441**.

**R5-223441 Updates to test case 11.6.1**

*Type: CR For: Agreement  
 38.523-1 v16.11.1 CR-2980 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces R5-223083)

**Decision:** The document was **agreed**.

#### 6.4.5 TS 38.523-2

**R5-222124 Update of 5G-NR test cases applicability**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0217 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Lenovo, Motorola Mobility, Element Materials Technology, CATT, TDIA*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223442**.

**R5-223442 Update of 5G-NR test cases applicability**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Lenovo, Motorola Mobility, Element Materials Technology, CATT, TDIA*

(Replaces R5-222124)

**Decision:** The document was **agreed**.

**R5-222465 Update of applicability statement for test cases for NE-DC RRC**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0219 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

filename, WIC

r1

**Decision:** The document was **revised to R5-223348**.

**R5-223348 Update of applicability statement for test cases for NE-DC RRC**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0219 rev 1 Cat: F (Rel-16)  
  
 Source: CMCC*

(Replaces R5-222465)

**Decision:** The document was **agreed**.

**R5-222859 Add applicability for test case 11.1.3a**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0221 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-222936 Update of E-UTRA release for EPSFB TC 11.1.8 and 11.1.9**

*Type: CR For: Agreement  
 38.523-2 v16.11.0 CR-0222 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Discussion:**

TEI16?

**Decision:** The document was **withdrawn**.

#### 6.4.6 TS 38.523-3

**R5-222385 5G Rel-15: Test Models updates**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2515 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Discussion:**

- The EN-DC with NR CA PDCP duplication test model needs to be documented for test cases 8.2.6.1.1.x.

- The NR-DC with NR CA PDCP duplication test model needs to be documented for test cases 8.2.6.1.2.x.

r3

**Decision:** The document was **revised to R5-223443**.

**R5-223443 5G Rel-15: Test Models updates**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2515 rev 1 Cat: F (Rel-17)  
  
 Source: MCC TF160*

(Replaces R5-222385)

**Decision:** The document was **agreed**.

**R5-222856 Correction to clause 7.3.5.3.4 Sequence of intra-NR inter-cell CA handover**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2520 Cat: F (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

Deferred.

merged with R5-222385r3.

**Decision:** The document was **withdrawn**.

**R5-222916 NR IIoT: Test Model updates**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2521 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Discussion:**

late doc

Made the Test model for NR CA PDCP testing suitable for both cases of 1 SCell and 2SCells, because we need only 1 SCell for Rel-15 test cases 8.1.5.7.1.x. In Figure 5.2.2.2.4-1, SCells 1 & 2 should be on the MCG, not the SCG.

r2

**Decision:** The document was **revised to R5-223444**.

**R5-223444 NR IIoT: Test Model updates**

*Type: CR For: Agreement  
 38.523-3 v17.2.0 CR-2521 rev 1 Cat: F (Rel-17)  
  
 Source: MCC TF160*

(Replaces R5-222916)

**Decision:** The document was **agreed**.

#### 6.4.7 Discussion Papers, Work Plan, TC lists

**R5-222131 Discussion on NAS support for IMS multiparty scenarios**

*Type: discussion For: Endorsement  
 Source: ROHDE & SCHWARZ*

**Discussion:**

Option A accepted

**Decision:** The document was **noted**.

**R5-222800 TS 36.523-1 Tracker status before RAN5-94e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223075 TS 38.523-1 Tracker status before RAN5-95e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **noted**.

### 6.5 Routine Maintenance for TS 36 Series TEIx\_Test

#### 6.5.1 Routine Maintenance for TS 36.508

#### 6.5.2 Routine Maintenance for TS 36.509

#### 6.5.3 Routine Maintenance for TS 36.523-1

##### 6.5.3.1 Idle Mode

##### 6.5.3.2 Layer 2

###### 6.5.3.2.1 MAC

**R5-222791 Inclusive Language update 36523-1\_s07\_01**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5094 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

###### 6.5.3.2.2 RLC

###### 6.5.3.2.3 PDCP

##### 6.5.3.3 RRC

###### 6.5.3.3.1 RRC Part 1 (clauses 8.1 and 8.5)

**R5-222386 Updates to LTE audit TC 8.5.4.1**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5089 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222792 Inclusive Language update 36523-1\_s08\_01-s08\_02**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5095 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

**R5-223241 Correction to LTE RACS test case 8.5.5.1**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5100 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, MCC TF160*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223445**.

**R5-223445 Correction to LTE RACS test case 8.5.5.1**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5100 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, MCC TF160*

(Replaces R5-223241)

**Decision:** The document was **agreed**.

###### 6.5.3.3.2 RRC Part 2 (clause 8.2),

###### 6.5.3.3.3 RRC Part 3 (clause 8.3)

**R5-222793 Inclusive Language update 36523-1\_s08\_03**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5096 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

###### 6.5.3.3.4 Inter-RAT (clauses 8.4 & 8.4A)

**R5-222794 Inclusive Language update 36523-1\_s08\_04-s08\_09**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5097 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

###### 6.5.3.3.5 RRC LTE MDT (clause 8.6)

###### 6.5.3.3.6 RRC ANR for UTRAN (clause 8.7)

##### 6.5.3.4 EPS Mobility Management

**R5-222416 Correction to LTE PSM testcases**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5090 Cat: F (Rel-17)  
  
 Source: ANRITSU LTD*

**Decision:** The document was **agreed**.

##### 6.5.3.5 EPS Session Management

**R5-222795 Inclusive Language update 36523-1\_s10-s13**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5098 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

##### 6.5.3.6 General Tests

**R5-223243 Update to EIEI test case 11.3.1**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5101 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, CETECOM GmbH*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223446**.

**R5-223446 Update to EIEI test case 11.3.1**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5101 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, CETECOM GmbH*

(Replaces R5-223243)

**Decision:** The document was **agreed**.

##### 6.5.3.7 Interoperability Radio Bearers

##### 6.5.3.8 Multilayer Procedures

**R5-222166 New TC 13.1.23 MCVideo with Dedicated Bearer of QCI 67-Attach-Call setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5084 Cat: F (Rel-17)  
  
 Source: NIST*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223447**.

**R5-223447 New TC 13.1.23 MCVideo with Dedicated Bearer of QCI 67-Attach-Call setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5084 rev 1 Cat: F (Rel-17)  
  
 Source: NIST*

(Replaces R5-222166)

**Decision:** The document was **agreed**.

**R5-222167 New TC 13.1.24 MCVideo with Dedicated Bearer of QCI 2-Attach-Call setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5085 Cat: F (Rel-17)  
  
 Source: NIST*

**Discussion:**

the proposed changes were included in the changes in R5-222166r1.

**Decision:** The document was **withdrawn**.

**R5-222168 New TC 13.1.25 MCData-Attach-Call setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5086 Cat: F (Rel-17)  
  
 Source: NIST*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223448**.

**R5-223448 New TC 13.1.25 MCData-Attach-Call setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5086 rev 1 Cat: F (Rel-17)  
  
 Source: NIST*

(Replaces R5-222168)

**Discussion:**

TF160 manager: deals in fact with 13.1.24

**Decision:** The document was **agreed**.

**R5-222170 Correction of 36.523-1 TC 13.1.22 MCPTT Call Setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5088 Cat: F (Rel-17)  
  
 Source: NIST*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223449**.

**R5-223449 Correction of 36.523-1 TC 13.1.22 MCPTT Call Setup CO**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5088 rev 1 Cat: F (Rel-17)  
  
 Source: NIST*

(Replaces R5-222170)

**Decision:** The document was **agreed**.

##### 6.5.3.9 PWS - ETWS, CMAS

##### 6.5.3.10 Non-3GPP

##### 6.5.3.11 Others (TS 36.523-1 clauses not covered by other AIs under AI 6.5.3, e.g. eMBMS, Home (e)NB, MBMS in LTE, D2D, SC-PTM, NB-IoT, CIoT...)

**R5-222169 Adding specs to References for MCData and MCVideo**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5087 Cat: F (Rel-17)  
  
 Source: NIST*

**Decision:** The document was **agreed**.

**R5-222789 Inclusive Language update 36523-1\_cover**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5092 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

**R5-222790 Inclusive Language update 36523-1\_s00-s06**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5093 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

**R5-222796 Inclusive Language update 36523-1\_s22-s24**

*Type: CR For: Agreement  
 36.523-1 v17.1.0 CR-5099 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

late doc

sub-AI?

**Decision:** The document was **not pursued**.

#### 6.5.4 Routine Maintenance for TS 36.523-2

**R5-222164 Applicabality Additions for TCs 13.1.23, 13.1.24, and 13.1.1.25**

*Type: CR For: Agreement  
 36.523-2 v17.1.0 CR-1369 Cat: F (Rel-17)  
  
 Source: NIST*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223450**.

**R5-223450 Applicabality Additions for TCs 13.1.23, 13.1.24, and 13.1.1.25**

*Type: CR For: Agreement  
 36.523-2 v17.1.0 CR-1369 rev 1 Cat: F (Rel-17)  
  
 Source: NIST*

(Replaces R5-222164)

**Discussion:**

TF160 manager: 13.1.1.25 is missing

**Decision:** The document was **agreed**.

**R5-222709 Inclusive language review for TS 36.523-2**

*Type: CR For: Agreement  
 36.523-2 v17.1.0 CR-1370 Cat: F (Rel-17)  
  
 Source: CATT*

**Discussion:**

late doc

for this doc and the following the update was postponed of ‘non-inclusive’ terms in the protocol conformance specs to RAN5#96-e due to the dependency on frozen Rel-17 ASN.1 for TTCN implementation.

**Decision:** The document was **not pursued**.

**R5-222710 Inclusive language review for TS 36.523-2**

*Type: CR For: Agreement  
 36.523-2 v17.1.0 CR-1371 Cat: F (Rel-17)  
  
 Source: CATT*

**Discussion:**

late doc

**Decision:** The document was **not pursued**.

#### 6.5.5 Routine Maintenance for TS 36.523-3

**R5-222387 Inclusive language review for TS 36.523-3**

*Type: CR For: Agreement  
 36.523-3 v17.2.0 CR-4672 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223330**.

**R5-223330 Inclusive language review for TS 36.523-3**

*Type: CR For: Agreement  
 36.523-3 v17.2.0 CR-4672 rev 1 Cat: F (Rel-17)  
  
 Source: MCC TF160*

(Replaces R5-222387)

**Decision:** The document was **not pursued**.

**R5-222388 Routine maintenance for TS 36.523-3**

*Type: CR For: Agreement  
 36.523-3 v17.2.0 CR-4673 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

#### 6.5.6 Discussion Papers, Work Plan, TC lists

**R5-222165 Discussion on Introduction of test cases for LTE-MCVideo and LTE-MCData**

*Type: discussion For: Endorsement  
 Source: NIST, FirstNet, AT&T*

**Abstract:**

For the strictly LTE behaviour of a device, RAN5 has specified testing in the TS 36.523-1. Due to test design historical reasons, a MCPTT enabled Device could not be tested for its LTE behaviour unless the MCPTT Client was disabled (the LTE specification cannot handle the MCPTT specific APN/PDN/Bearer establishments). The consequence was that RAN5 test specs did not provide means for verifying the LTE behaviour of a MCPTT enabled UE. However in the recent past, a test case was introduced in TS 36.523-1 that aimed at verifying the LTE relevant behaviour when the MCPTT Client (TC 13.1.22):

- Registers for MCPTT Services

- Initiates an MCPTT Call

Now MCPTT enabled devices can be tested for LTE registration and Mission Critical Services bearer establishment. However, there are no equivalent test cases for MCVideo enabled devices and MCData enabled devices. There is a commercial need for these test cases with the commercial availability of MCVideo and MCData services.

Proposal to add TCs for MCData and MCVideo accepted, actual TCs to be reviewed in the CRs

**Decision:** The document was **noted**.

**R5-222801 TS 38.523-1 Tracker status before RAN5-94e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223074 TS 36.523-1 Tracker status before RAN5-95e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **noted**.

### 6.6 Other Maintenance TEIx\_Test

#### 6.6.1 Routine Maintenance for TDD (HCR & LCR)

##### 6.6.1.1 TS 34.108

##### 6.6.1.2 TS 34.123-1

##### 6.6.1.3 TS 34.123-2

##### 6.6.1.4 TS 34.123-3

##### 6.6.1.5 Discussion Papers, Work Plan, TC list & CR summary

#### 6.6.2 Routine Maintenance for TS 34.108

#### 6.6.3 Routine Maintenance for TS 34.109

#### 6.6.4 Routine Maintenance for TS 34.123

##### 6.6.4.1 TS 34.123-1

**R5-223213 Correction to eCall test cases 13.3.1.2, 13.3.1.3, 13.3.1.4, 13.3.1.5, 13.3.1.6, 13.3.1.7 and 13.3.1.10**

*Type: CR For: Agreement  
 34.123-1 v15.5.0 CR-3937 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, CETECOM GmbH*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223451**.

**R5-223451 Correction to eCall test cases 13.3.1.2, 13.3.1.3, 13.3.1.4, 13.3.1.5, 13.3.1.6, 13.3.1.7 and 13.3.1.10**

*Type: CR For: Agreement  
 34.123-1 v15.5.0 CR-3937 rev 1 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, CETECOM GmbH*

(Replaces R5-223213)

**Decision:** The document was **agreed**.

##### 6.6.4.2 TS 34.123-2

##### 6.6.4.3 TS 34.123-3

#### 6.6.5 Discussion Papers, Work Plan, TC lists

#### 6.6.6 Routine Maintenance for TS 34.229

##### 6.6.6.1 TS 34.229-1

**R5-222073 Corrections to C.27**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1491 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222129 Correction to generic procedure C.29.1**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1492 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223452**.

**R5-223452 Correction to generic procedure C.29.1**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1492 rev 1 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK*

(Replaces R5-222129)

**Decision:** The document was **agreed**.

**R5-222389 Checking the absence of geolocation information in INVITE request**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1493 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Discussion:**

CR coversheet:

Update to default INVITE in A.2.1 for checking the absence of geolocation information".

reissued as R5-223306 because of title change

**Decision:** The document was **withdrawn**.

**R5-223306 Update to default INVITE in A.2.1 for checking the absence of geolocation information**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1500 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Abstract:**

reissued from R5-222389 because of title change

**Decision:** The document was **agreed**.

**R5-222390 Correction of A.17**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1494 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **withdrawn**.

**R5-222406 Corrections to A.2.3**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1495 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223453**.

**R5-223453 Corrections to A.2.3**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1495 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222406)

**Decision:** The document was **agreed**.

**R5-222407 Corrections to A.3.1**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1496 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223454**.

**R5-223454 Corrections to A.3.1**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1496 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222407)

**Decision:** The document was **agreed**.

**R5-222412 Corrections to A.2.1**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1497 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222427 Update to IMS emergency test case 19.1.2**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1498 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-223266 Correction to session timer for USSD TCs**

*Type: CR For: Agreement  
 34.229-1 v16.1.0 CR-1499 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

late doc

R&S CR R5-223056 is already adding clarification at test case level.

**Decision:** The document was **withdrawn**.

##### 6.6.6.2 TS 34.229-2

**R5-222074 Re-instating pc\_PS\_data\_off**

*Type: CR For: Agreement  
 34.229-2 v16.2.0 CR-0309 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

there is demand to have the PICS for PS Data Off in 38.508-2 rather than in 34.229-2.

**Decision:** The document was **withdrawn**.

**R5-222075 Corrections and amendments of IMS5GS applicability statements**

*Type: CR For: Agreement  
 34.229-2 v16.2.0 CR-0310 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

the ongoing discussion on PICS for NG114 (discussion paper in R5-222130).

Postponed.

r1

**Decision:** The document was **revised to R5-223498**.

**R5-223498 Corrections and amendments of IMS5GS applicability statements**

*Type: CR For: Agreement  
 34.229-2 v16.2.0 CR-0310 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222075)

**Decision:** The document was **agreed**.

**R5-223054 Correction to the description of condition C06**

*Type: CR For: Agreement  
 34.229-2 v16.2.0 CR-0311 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

overlap with R&S's R5-222075.

**Decision:** The document was **withdrawn**.

**R5-223078 Updates to IMS test case applicabilities**

*Type: CR For: Agreement  
 34.229-2 v16.2.0 CR-0312 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

##### 6.6.6.3 TS 34.229-3

##### 6.6.6.4 TS 34.229-4

##### 6.6.6.5 TS 34.229-5

**R5-222076 Corrections to A.15**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0336 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222077 Corrections to A.4**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0337 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222078 Corrections to A.5**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0338 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222079 Corrections to A.9**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0339 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223455**.

**R5-223455 Corrections to A.9**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0339 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222079)

**Decision:** The document was **agreed**.

**R5-222080 Corrections to initial EVS offers**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0340 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Huawei, HiSilicon*

**Discussion:**

r2

email exchange with TF160, revised the CR for EVS offer refinements. These changes are not just for adding test coverage (MO INVITE) and to fix SS behavior, but also to alleviate unfair UE failures (see the fixes to MT INVITE).

**Decision:** The document was **revised to R5-223456**.

**R5-223456 Corrections to initial EVS offers**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0340 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Huawei, HiSilicon*

(Replaces R5-222080)

**Decision:** The document was **agreed**.

**R5-222081 Corrections to TC 7.1**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0341 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

Following the concerns regarding immediate MT call release. Applies also to further withdrawals.

**Decision:** The document was **withdrawn**.

**R5-222082 Corrections to TC 7.4**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0342 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Huawei, HiSilicon*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223457**.

**R5-223457 Corrections to TC 7.4**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0342 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Huawei, HiSilicon*

(Replaces R5-222082)

**Decision:** The document was **agreed**.

**R5-222083 Corrections to TC 7.4a**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0343 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

overlap with R5-223079

r1

**Decision:** The document was **revised to R5-223458**.

**R5-223458 Corrections to TC 7.4a**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0343 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222083)

**Discussion:**

first withdrawn, then agreed!

**Decision:** The document was **agreed**.

**R5-222084 Corrections to TC 7.5**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0344 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222085 Corrections to TC 7.6**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0345 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222086 Corrections to TC 7.7**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0346 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222087 Corrections to TC 7.8**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0347 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222088 Corrections to TC 7.9**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0348 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222089 Corrections to TC 7.10**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0349 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222090 Corrections to TC 7.12**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0350 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222091 Corrections to TC 7.13**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0351 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222092 Corrections to TC 7.14**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0352 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222093 Corrections to TC 7.15**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0353 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222094 Corrections to TC 7.17**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0354 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222095 Corrections to TC 7.18**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0355 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222096 Corrections to TC 7.19**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0356 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222097 Corrections to TC 7.20**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0357 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Huawei, HiSilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223459**.

**R5-223459 Corrections to TC 7.20**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0357 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Huawei, HiSilicon*

(Replaces R5-222097)

**Decision:** The document was **agreed**.

**R5-222098 Corrections to TC 7.22**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0358 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223481**.

**R5-223481 Corrections to TC 7.22**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0358 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222098)

**Decision:** The document was **agreed**.

**R5-222099 Corrections to TC 7.23**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0359 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222100 Corrections to TC 7.24a**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0360 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222101 Corrections to TC 7.24b**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0361 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ, Keysight Technologies*

**Decision:** The document was **agreed**.

**R5-222102 Corrections to TC 7.25**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0362 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223460**.

**R5-223460 Corrections to TC 7.25**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0362 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222102)

**Decision:** The document was **agreed**.

**R5-222103 Corrections to TC 8.6**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0363 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223461**.

**R5-223461 Corrections to TC 8.6**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0363 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222103)

**Decision:** The document was **agreed**.

**R5-222104 Corrections to TC 8.25**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0364 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222105 Corrections to TC 8.27**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0365 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222106 Corrections to TC 8.34**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0366 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222107 Corrections to TC 8.35**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0367 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223462**.

**R5-223462 Corrections to TC 8.35**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0367 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222107)

**Decision:** The document was **agreed**.

**R5-222108 Corrections to TC 8.37**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0368 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **withdrawn**.

**R5-222109 Corrections to TC 8.38**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0369 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222110 Corrections to TC 10.4**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0370 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222127 Corrections to IMS over 5GS XCAP test cases**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0371 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm*

**Decision:** The document was **agreed**.

**R5-222128 Correction to generic procedure A.5.1**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0372 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK, Qualcomm*

**Decision:** The document was **withdrawn**.

**R5-222268 Correction to IMS 5GS TC 8.34, 8.35 and 8.36**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0373 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK*

**Discussion:**

r2

**Decision:** The document was **revised to R5-223463**.

**R5-223463 Correction to IMS 5GS TC 8.34, 8.35 and 8.36**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0373 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK*

(Replaces R5-222268)

**Decision:** The document was **agreed**.

**R5-222269 Corrections to A.21**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0374 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Keysight Technologies UK*

**Decision:** The document was **agreed**.

**R5-222274 Correction to IMS 5GS TC 8.2**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0375 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

late doc

**Decision:** The document was **withdrawn**.

**R5-222275 Correction to IMS 5GS TC 10.9**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0376 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd, MediaTek*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223464**.

**R5-223464 Correction to IMS 5GS TC 10.9**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0376 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd, MediaTek*

(Replaces R5-222275)

**Decision:** The document was **agreed**.

**R5-222276 Correction to IMS 5GS TC 10.10**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0377 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223465**.

**R5-223465 Correction to IMS 5GS TC 10.10**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0377 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm CDMA Technologies, Anritsu Ltd*

(Replaces R5-222276)

**Decision:** The document was **agreed**.

**R5-222346 Corrections to TC 7.21**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0378 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **agreed**.

**R5-222391 Editorial updates to title of several generic test procedures**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0379 Cat: F (Rel-17)  
  
 Source: MCC TF160*

**Decision:** The document was **withdrawn**.

**R5-222408 Corrections to TC 10.11**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0380 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223466**.

**R5-223466 Corrections to TC 10.11**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0380 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-222408)

**Decision:** The document was **agreed**.

**R5-222410 Correction of A.17 - Generic test procedure for putting a MTSI speech call to hold or to resume the call from the UE / 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0381 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222411 Editorial updates to title of several generic test procedures**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0382 Cat: F (Rel-16)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222413 Correction to 5GS IMS Test Case 10.2**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0383 Cat: F (Rel-16)  
  
 Source: Anritsu Ltd, Qualcomm, Rohde and Schwarz*

**Discussion:**

r1

Deferred.

**Decision:** The document was **revised to R5-223467**.

**R5-223467 Correction to 5GS IMS Test Case 10.2**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0383 rev 1 Cat: F (Rel-16)  
  
 Source: Anritsu Ltd, Qualcomm, Rohde and Schwarz*

(Replaces R5-222413)

**Decision:** The document was **agreed**.

**R5-222414 Correction to IMS testcase 10.6**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0384 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD, Rohde & Schwarz*

**Discussion:**

offline comments from MCC160.

r1

Deferred.

**Decision:** The document was **revised to R5-223468**.

**R5-223468 Correction to IMS testcase 10.6**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0384 rev 1 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD, Rohde & Schwarz*

(Replaces R5-222414)

**Decision:** The document was **agreed**.

**R5-222415 Correction to 5GS IMS test case 7.25**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0385 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD*

**Discussion:**

another solution proposed in R5-222425(raised by Google) also resolve the same issue.

**Decision:** The document was **withdrawn**.

**R5-222425 Corrections to TC 7.25 precondition**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0386 Cat: F (Rel-16)  
  
 Source: Google Inc.*

**Discussion:**

cover WIC! +title

r1

**Decision:** The document was **revised to R5-223349**.

**R5-223349 Corrections to TC 7.25 precondition**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0386 rev 1 Cat: F (Rel-16)  
  
 Source: Google Inc.*

(Replaces R5-222425)

**Decision:** The document was **agreed**.

**R5-222551 Correction to IMS 5GS TC 7.22 and 7.23**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0387 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

comments from R&S and MCC TF160.

r1

**Decision:** The document was **revised to R5-223339**.

**R5-223339 Correction to IMS 5GS TC 7.22 and 7.23**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0387 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces R5-222551)

**Decision:** The document was **withdrawn**.

**R5-222755 Correction to NR IMS TC 7.1-MO Voice Call with 503**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0388 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223484**.

**R5-223484 Correction to NR IMS TC 7.1-MO Voice Call with 503**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0388 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222755)

**Decision:** The document was **agreed**.

**R5-222756 Correction to NR IMS TC 7.4-MO Voice Call with preconditions at both side**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0389 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

merged into R&S CR R5-222082.

**Decision:** The document was **withdrawn**.

**R5-222757 Correction to NR IMS TC 7.4a-MO Voice Call with preconditions and default Configuration**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0390 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222758 Correction to NR IMS TC 7.5-MO Voice Call without preconditions at both side**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0391 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222759 Correction to NR IMS TC 7.6-MT Voice Call with preconditions at both side**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0392 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223469**.

**R5-223469 Correction to NR IMS TC 7.6-MT Voice Call with preconditions at both side**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0392 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222759)

**Decision:** The document was **agreed**.

**R5-222760 Correction to NR IMS TC 7.7-MT Voice Call without preconditions at both side**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0393 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222761 Correction to NR IMS TC 7.8-MT Voice Call without preconditions at MO UE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0394 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223470**.

**R5-223470 Correction to NR IMS TC 7.8-MT Voice Call without preconditions at MO UE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0394 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222761)

**Decision:** The document was **agreed**.

**R5-222762 Correction to NR IMS TC 7.9-MT Voice Call without preconditions at MT UE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0395 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223471**.

**R5-223471 Correction to NR IMS TC 7.9-MT Voice Call without preconditions at MT UE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0395 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222762)

**Decision:** The document was **agreed**.

**R5-222763 Correction to NR IMS TC 7.10-MT Voice call without preconditions and without SDP offer**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0396 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222764 Correction to NR IMS TC 7.12-MO Voice Call without preconditions at MT UE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0397 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223485**.

**R5-223485 Correction to NR IMS TC 7.12-MO Voice Call without preconditions at MT UE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0397 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222764)

**Decision:** The document was **agreed**.

**R5-222765 Correction to NR IMS TC 7.13-MTSI MT Voice Call with RTCP disabled**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0398 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222766 Correction to NR IMS TC 7.18-MTSI MO Voice Call with AMR-WB Encoded Media**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0399 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222767 Correction to NR IMS TC 7.19-MTSI MO Voice Call with AMR-WB IO Encoded Media**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0400 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222768 Correction to NR IMS TC 7.20-MTSI MO Voice Call\_add video and remove video**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0401 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

R16!

overlap with R&S CR R5-222097.

**Decision:** The document was **withdrawn**.

**R5-222769 Correction to NR IMS TC 7.24-UE receives CANCEL request for a forked MT voice call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0402 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223486**.

**R5-223486 Correction to NR IMS TC 7.24-UE receives CANCEL request for a forked MT voice call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0402 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222769)

**Decision:** The document was **agreed**.

**R5-222770 Correction to NR IMS TC 7.25-MTSI MT Voice Call without SDP offer in INVITE**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0403 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222771 Correction to NR IMS TC 7.26-Mobile Originating CAT**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0404 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223487**.

**R5-223487 Correction to NR IMS TC 7.26-Mobile Originating CAT**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0404 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222771)

**Decision:** The document was **agreed**.

**R5-222772 Correction to NR IMS TC 7.27-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0405 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r2

**Decision:** The document was **revised to R5-223488**.

**R5-223488 Correction to NR IMS TC 7.27-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0405 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222772)

**Decision:** The document was **agreed**.

**R5-222773 Correction to NR IMS TC 7.28-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0406 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223489**.

**R5-223489 Correction to NR IMS TC 7.28-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0406 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222773)

**Decision:** The document was **agreed**.

**R5-222774 Correction to NR IMS TC 7.29-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0407 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223490**.

**R5-223490 Correction to NR IMS TC 7.29-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0407 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222774)

**Decision:** The document was **agreed**.

**R5-222775 Correction to NR IMS TC 7.30-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0408 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223491**.

**R5-223491 Correction to NR IMS TC 7.30-Session Timer for MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0408 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222775)

**Decision:** The document was **agreed**.

**R5-222776 Correction to NR IMS TC 7.31-Session Timer for MT Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0409 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222777 Correction to NR IMS TC 7.32-Session Timer for MT Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0410 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222778 Correction to NR IMS TC 7.33-Session Timer for MT Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0411 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223472**.

**R5-223472 Correction to NR IMS TC 7.33-Session Timer for MT Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0411 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222778)

**Decision:** The document was **agreed**.

**R5-222779 Correction to NR IMS TC 7.34-Session Timer for MT Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0412 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223473**.

**R5-223473 Correction to NR IMS TC 7.34-Session Timer for MT Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0412 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222779)

**Decision:** The document was **agreed**.

**R5-222780 Correction to NR IMS TC 8.3-Originating Identification Restriction Signalling 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0413 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223492**.

**R5-223492 Correction to NR IMS TC 8.3-Originating Identification Restriction Signalling 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0413 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222780)

**Decision:** The document was **agreed**.

**R5-222781 Correction to NR IMS TC 8.6-Terminating Identification Restriction Signalling 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0414 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223474**.

**R5-223474 Correction to NR IMS TC 8.6-Terminating Identification Restriction Signalling 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0414 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222781)

**Decision:** The document was **agreed**.

**R5-222782 Correction to NR IMS TC 8.8-Communication Forwarding Unconditional Signalling 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0415 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223493**.

**R5-223493 Correction to NR IMS TC 8.8-Communication Forwarding Unconditional Signalling 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0415 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222782)

**Decision:** The document was **agreed**.

**R5-222783 Correction to NR IMS TC 8.41-Communication Forwarding on No Reply MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0416 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

Deferred.

r1

**Decision:** The document was **revised to R5-223494**.

**R5-223494 Correction to NR IMS TC 8.41-Communication Forwarding on No Reply MO Voice Call**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0416 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces R5-222783)

**Decision:** The document was **agreed**.

**R5-222784 Correction to NR IMS TC 9.1-MO SMS 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0417 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222785 Correction to NR IMS TC 9.3-MO Concatenated SMS 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0418 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222786 Correction to NR IMS TC 9.5-MO SMS RP-ERROR 5GS**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0419 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **agreed**.

**R5-222787 Correction to EVS configuration in initial SDP offer**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0420 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Discussion:**

R16!

overlap wuith R&S's R5-222080.

**Decision:** The document was **withdrawn**.

**R5-222988 Update of 5GS IMS test case 10.15**

*Type: CR For: Agreement  
 34.229-5 v15.6.0 CR-0421 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Discussion:**

reissued as R5-223293 because of old spec.

**Decision:** The document was **withdrawn**.

**R5-223293 Update of 5GS IMS test case 10.15**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0426 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

reissued from R5-222988 because of old spec.

**Decision:** The document was **agreed**.

**R5-223056 Corrections to TC 8.40**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0422 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223475**.

**R5-223475 Corrections to TC 8.40**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0422 rev 1 Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

(Replaces R5-223056)

**Decision:** The document was **agreed**.

**R5-223079 Corrections to test case 7.4a**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0423 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **agreed**.

**R5-223080 Update to test case 7.4**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0424 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**R5-223288 Update for TC 10.9**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0425 Cat: F (Rel-16)  
  
 Source: MediaTek*

**Discussion:**

TEI15!

merged into R5-222275.

**Decision:** The document was **withdrawn**.

**R5-223333 Update to call control test case 7.21**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0427 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

late doc

r1

**Decision:** The document was **revised to R5-223476**.

**R5-223476 Update to call control test case 7.21**

*Type: CR For: Agreement  
 34.229-5 v16.2.0 CR-0427 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces R5-223333)

**Decision:** The document was **agreed**.

##### 6.6.6.6 Discussion Papers, Work Plan, TC lists

**R5-222130 Continuing and hopefully finalizing the discussion on PICS for NG.114**

*Type: discussion For: Endorsement  
 Source: ROHDE & SCHWARZ*

**Discussion:**

"LATE DOCUMENT

All proposals except B accepted in principle to complete the CR in R5-222075.

"

**Decision:** The document was **noted**.

**R5-222260 Call Flow for addition of video to a voice call**

*Type: discussion For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

Both proposals accepted to update TC 7.21 and also send a LS to Ct1. Late tdoc for CR to update TC 7.21 accepted as well.

**Decision:** The document was **noted**.

#### 6.6.7 Routine Maintenance for TS 37.571

##### 6.6.7.1 TS 37.571-2

##### 6.6.7.2 TS 37.571-3

##### 6.6.7.3 TS 37.571-4

##### 6.6.7.4 TS 37.571-5

##### 6.6.7.5 Discussion Papers, Work Plan, TC lists

#### 6.6.8 Routine Maintenance for TS 51.010

##### 6.6.8.1 TS 51.010-1 (Signalling)

##### 6.6.8.2 TS 51.010-2 (Signalling)

##### 6.6.8.3 TS 51.010-5 (Signalling)

##### 6.6.8.4 TS 51.010-7 (Signalling)

##### 6.6.8.5 Discussion Papers, Work Plan, TC list & CR summary

#### 6.6.9 Routine Maintenance for TS 36.579

##### 6.6.9.1 TS 36.579-1

**R5-222392 Addition of clause 5.5.3.15 - Conference-info**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0254 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222393 Correction of clause 5.3 - Generic test procedures for UE MCS operation**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0255 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Discussion:**

r3

**Decision:** The document was **revised to R5-223477**.

**R5-223477 Correction of clause 5.3 - Generic test procedures for UE MCS operation**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0255 rev 1 Cat: F (Rel-15)  
  
 Source: MCC TF160*

(Replaces R5-222393)

**Decision:** The document was **agreed**.

**R5-222394 Correction of clause 5.5.2.14 - SIP SUBSCRIBE**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0256 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222395 Correction of clause 5.5.3.1 - SDP Message**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0257 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **withdrawn**.

**R5-222396 Correction of clause 5.5.3.2 - MCS Info Lists**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0258 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222397 Correction of clause 5.5.3.6 - SIMPLE-FILTER**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0259 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223478**.

**R5-223478 Correction of clause 5.5.3.6 - SIMPLE-FILTER**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0259 rev 1 Cat: F (Rel-15)  
  
 Source: MCC TF160*

(Replaces R5-222397)

**Decision:** The document was **agreed**.

**R5-222398 Correction of clause 5.5.8 - Default MCS configuration management messages and other information elements**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0260 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222399 Corrections of clause 5.5.3.1 - SDP message**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0261 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222400 Extensions of clause 2 - References**

*Type: CR For: Agreement  
 36.579-1 v15.5.0 CR-0262 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

##### 6.6.9.2 TS 36.579-2

**R5-222133 Correction of 36.579-2 TC 6.2.10**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0287 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **withdrawn**.

**R5-222134 Correction of 36.579-2 TC 6.2.11**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0288 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **withdrawn**.

**R5-222138 Correction of 36.579-2 TC 6.2.9**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0292 Cat: F (Rel-15)  
  
 Source: NIST*

**Decision:** The document was **withdrawn**.

**R5-222401 Common corrections of MCPTT private call test cases**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0300 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222402 Correction of MCPTT Test Case 5.3**

*Type: CR For: Agreement  
 36.579-2 v15.3.0 CR-0301 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

##### 6.6.9.3 TS 36.579-3

##### 6.6.9.4 TS 36.579-4

**R5-222403 Misc. updates to MC client test cases**

*Type: CR For: Agreement  
 36.579-4 v15.3.0 CR-0024 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Discussion:**

any edits not overlapped will be introduced in a revision of NIST's R5-222163.

**Decision:** The document was **withdrawn**.

##### 6.6.9.5 TS 36.579-5

##### 6.6.9.6 TS 36.579-6

**R5-222404 Correction of Group Call Test Cases in clause 6.1**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0067 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Decision:** The document was **agreed**.

**R5-222405 Correction of Private Call Test Cases in clause 6.2**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0068 Cat: F (Rel-15)  
  
 Source: MCC TF160*

**Discussion:**

r1

**Decision:** The document was **revised to R5-223479**.

**R5-223479 Correction of Private Call Test Cases in clause 6.2**

*Type: CR For: Agreement  
 36.579-6 v15.2.0 CR-0068 rev 1 Cat: F (Rel-15)  
  
 Source: MCC TF160*

(Replaces R5-222405)

**Decision:** The document was **agreed**.

##### 6.6.9.7 TS 36.579-7

##### 6.6.9.8 Other Specs

##### 6.6.9.9 Discussion Papers, Work Plan, TC lists

### 6.7 Outgoing liaison statements for provisional approval

**R5-223331 Reply LS on NGMN Testing Framework for 5G Device Network Slicing Pre-Commercial Trials**

*Type: LS out For: Approval  
 to NGNM  
 Source: TSG WG RAN5*

**Discussion:**

(Luting)

post meeting doc

for email approval

2.June 6pm

**Decision:** The document was **for email approval**.

**R5-223332 LS on video call upgrade when preconditions are not used**

*Type: LS out For: Approval  
 to TSG WG CT1  
 Source: TSG WG RAN5*

**Abstract:**

TS 24.229 clauses 6.1.4.2, 6.1.4.3 contain the following text on session modification when precondition mechanism is used:

...

RAN5 is unclear on how the UE should behave when it receives re-INVITE, containing a call upgrade request from voice to video call and preconditions not being used. Two different interpretations are being discussed:

A. The UE optionally sends 100 Trying provisional response followed by 183 session progress with SDP answer.

B. The UE optionally sends 100 Trying provisional response followed by 200 OK containing SDP answer when user accepts the call modification (upgrade) request.

2. Actions: To CT WG1group: RAN WG5 asks CT WG1 which of the above interpretations is to be applied upon described scenario.

**Discussion:**

(Bharadwaj)

for email approval

**Decision:** The document was **approved**.

### 6.8 AOB

## 7 Closing Joint Session

### 7.1 Pointer CRs

### 7.2 Open Issues

#### 7.2.1 RF group docs still requiring WG verdict/confirmation - original A.I. retained

**R5-223200 Corrections on mandatory channel bandwidths after Rel-15**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2402 Cat: F (Rel-17)  
  
 Source: Keysight technologies UK Ltd*

**Abstract:**

AI 5.4.1.1

**Discussion:**

TEI\_15

r2

Comments from the TF160 manager.

r3

Seen in the final joint.

RAN5 Chair: redcap needs to be resolved via offline discussions.

overlapping with 2348-9.

CAICT asked for more time.

r4

The essential revisions in 2209 has been included.

**Decision:** The document was **revised to R5-223480**.

**R5-223480 Corrections on mandatory channel bandwidths after Rel-15**

*Type: CR For: Agreement  
 38.508-1 v17.4.0 CR-2402 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight technologies UK Ltd*

(Replaces R5-223200)

**Discussion:**

Meeting allowed the exception to include R5-222209 (WIC “NR\_CADC\_NR\_LTE\_DC\_R17-UEConTes”) and R5-222348/2349 (WIC “NR\_lic\_bands\_BW\_R17-UEConTest”)

changes in this CR

**Decision:** The document was **agreed**.

#### 7.2.2 Sig group docs still requiring WG verdict/confirmation - original A.I. retained

#### 7.2.3 Other open issues from joint sessions - original A.I. retained

#### 7.2.4 Study on 5G NR UE full stack testing for Network Slicing - original A.I. retained

#### 7.2.5 Other

### 7.3 iWD/PRD Updates

**R5-222224 PRD21 on NR bands and 5G NR CADC config handling v1.1.0**

*Type: other For: Endorsement  
 Source: CMCC, Ericsson*

**Discussion:**

sub-AI!!!

**Decision:** The document was **not treated**.

**R5-223499 PRD21: Status Updates and Completion Declaration Statements (CDS) for NR bands, NR band CBW extensions, 5G NR CADC configurations for PC3, PC1.5 and PC2**

*Type: other For: Action  
 Source: China Unicom*

**Decision:** The document was **not treated**.

#### 7.3.1 iWD-003: Record of RAN5 owned test cases not ready for RAN5 agreement or verifiable on one UE only

#### 7.3.2 PRD17: Guidance to using Work Item Codes with RAN5 test cases

**R5-222692 PRD-17 on Guidance to Work Item Codes (post RAN#96-e version)**

*Type: other For: Approval  
 Source: Bureau Veritas (Rapporteur)*

**Abstract:**

Post-meeting

**Decision:** The document was **not treated**.

#### 7.3.3 PRD20: Status updates E-UTRA CA

**R5-222244 3GPP RAN5 PRD20 v1.1.0: CA status list**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Post meeting document

**Decision:** The document was **not treated**.

#### 7.3.4 PRD21: Status Updates and Completion Declaration Statements (CDS) for NR bands, NR band CBW extensions, 5G NR CADC configurations for PC3, PC1.5 and PC2

**R5-222235 PRD21 CDS: PC3 for CA\_n3A-n41A**

*Type: other For: Information  
 Source: CMCC*

**Decision:** The document was **withdrawn**.

**R5-222236 PRD21 CDS: PC3 for CA\_n41A-n79A**

*Type: other For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222237 PRD21 CDS: PC3 for CA\_n41C BCS1**

*Type: other For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222238 PRD21 CDS: PC3 for CA\_n41C**

*Type: other For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222239 PRD21 CDS: PC3 for CA\_n41C-n79A**

*Type: other For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222240 PRD21 CDS: PC3 for CA\_n41A-n79A BCS1**

*Type: other For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222282 PRD21 CDS: PC3 for DC\_1A-20A\_n8A, DC\_1A-28A\_n5A, DC\_3A-7A\_n5A, DC\_3A-8A\_n28A, DC\_7A-8A\_n3A, DC\_7A-20A\_n8A, DC\_7A-28A\_n5A**

*Type: WI summary For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Completion Declaration Statement for PRD21

**Decision:** The document was **not treated**.

**R5-222357 PRD21 CDS: PC3 for n2 and CBW extension for 25, 30 and 40 MHz**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222358 PRD21 CDS: PC3 for n5 and CBW extension for 25 MHz**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222359 PRD21 CDS: PC3 for n41 and CBW extension for 70 MHz**

*Type: other For: Information  
 Source: Ericsson*

**Discussion:**

as 100% completion was not reached for the Rel-17 n41 and n48 CBW extensions at RAN5#95-e

**Decision:** The document was **withdrawn**.

**R5-222360 PRD21 CDS: PC3 for n48 and CBW extensions for 30 and 70 MHz**

*Type: other For: Information  
 Source: Ericsson*

**Discussion:**

as 100% completion was not reached for the Rel-17 n41 and n48 CBW extensions at RAN5#95-e

**Decision:** The document was **withdrawn**.

**R5-223023 PRD21 CDS: PC3 for CA\_n29A-n71A, BCS1 CA\_n66A\_n71A**

*Type: other For: Information  
 Source: WE Certification Oy, DISH Network*

**Decision:** The document was **not treated**.

**R5-223151 PRD21 CDS: Rel-17 EN-DC configuration DC\_20A\_N257A**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Abstract:**

Post meeting document

**Decision:** The document was **not treated**.

**R5-223203 PRD21 CDS: PC3 EN-DC DC\_1A\_n5A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223204 PRD21 CDS: PC3 EN-DC DC\_1A\_n7A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223205 PRD21 CDS: PC3 EN-DC DC\_3A\_n5A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223206 PRD21 CDS: PC3 EN-DC DC\_7A\_n5A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223207 PRD21 CDS: PC3 EN-DC DC\_28A\_n7A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223208 PRD21 CDS: PC3 EN-DC DC\_7A\_n5A-n78A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223209 PRD21 CDS: PC3 EN-DC DC\_7C\_n5A-n78A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223210 PRD21 CDS: PC3 EN-DC DC\_7C\_n28A-n78A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223211 PRD21 CDS: PC3 EN-DC DC\_28A\_n7A-n78A**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223500 PRD21 CDS: PC3 for n77 and CBW extension for 25, 30 and 70 MHz**

*Type: other For: discussion  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R5-223501 PRD21 CDS: PC3 for n78 and CBW extension for 25, 30 and 70 MHz**

*Type: other For: discussion  
 Source: China Unicom*

**Decision:** The document was **not treated**.

#### 7.3.5 Other PRD updates

### 7.4 Work Items/ Study Items

#### 7.4.1 Final version of Work Item Proposals

**R5-223309 New WID on UE Conformance - NR Sidelink Relay**

*Type: WID new For: Endorsement  
 Source: CATT, China Telecom*

(Replaces R5-222171)

**Discussion:**

AT&T: pls. put 'TS' in front of the specs.

**Decision:** The document was **endorsed**.

**R5-223310 New WID on UE Conformance - NR sidelink enhancement**

*Type: WID new For: Endorsement  
 Source: CATT, Huawei*

(Replaces R5-222172)

**Decision:** The document was **endorsed**.

**R5-223311 New WID on UE Conformance - High power UE (power class 2) for one NR FDD band**

*Type: WID new For: Endorsement  
 Source: China Unicom*

(Replaces R5-222176)

**Decision:** The document was **endorsed**.

**R5-223312 New WID on UE Conformance - 4Rx support for NR band n8**

*Type: WID new For: Endorsement  
 Source: China Unicom*

(Replaces R5-222177)

**Decision:** The document was **endorsed**.

**R5-223313 New WID on UE Conformance - Enhanced NR support for high speed train scenario for frequency range 1 (FR1)**

*Type: WID new For: Endorsement  
 Source: CMCC*

(Replaces R5-222215)

**Decision:** The document was **endorsed**.

**R5-223314 New WID on Enhanced Industrial Internet of Things (IoT) and ultra-reliable and low latency communication (URLLC) support for NR**

*Type: WID new For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R5-222347)

**Decision:** The document was **endorsed**.

**R5-223315 New WID - UE Conformance - enhancement of RAN slicing for NR**

*Type: WID new For: Endorsement  
 Source: CMCC*

(Replaces R5-222451)

**Decision:** The document was **endorsed**.

**R5-223316 New WID on UE Conformance – UE power saving enhancements for NR**

*Type: WID new For: Approval  
 Source: MediaTek Inc., Qualcomm*

(Replaces R5-222510)

**Decision:** The document was **endorsed**.

**R5-223317 New WID on UE Conformance - Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC)**

*Type: WID new For: Approval  
 Source: Apple Portugal, ROHDE & SCHWARZ, Vivo*

(Replaces R5-222558)

**Decision:** The document was **endorsed**.

**R5-223318 New WID on UE Conformance – NR small data transmissions in INACTIVE state**

*Type: WID new For: Endorsement  
 Source: Qualcomm CDMA Technologies*

(Replaces R5-222563)

**Discussion:**

TR 38.509 will be removed.

**Decision:** The document was **endorsed**.

**R5-223319 New WID on UE Conformance - NR Uplink Data Compression (UDC)**

*Type: WID new For: Endorsement  
 Source: CATT*

(Replaces R5-222654)

**Decision:** The document was **endorsed**.

**R5-223320 New WID on UE Conformance – Enhanced Private Network Support for NG-RAN including CT aspects**

*Type: WID new For: Endorsement  
 Source: China Telecom Corporation Ltd.*

(Replaces R5-222717)

**Decision:** The document was **endorsed**.

**R5-223321 New WID on UE Conformance- Introduction of DL 1024 QAM for NR Frequency Range 1 (FR1)**

*Type: WID new For: Endorsement  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-222744)

**Decision:** The document was **endorsed**.

**R5-223322 New WID on UE Conformance - Further enhancements on MIMO for NR**

*Type: WID new For: Endorsement  
 Source: Samsung, Huawei, Hisilicon*

(Replaces R5-222750)

**Discussion:**

Apple: RF specs are missing

**Decision:** The document was **endorsed**.

**R5-223323 New WID on UE Conformance - NR support for high speed train scenario in frequency range 2 (FR2)**

*Type: WID new For: Endorsement  
 Source: Samsung*

(Replaces R5-222751)

**Decision:** The document was **endorsed**.

**R5-223324 New WID on: UE Conformance Test Aspects - Introduction of upper 700MHz A block E-UTRA band for the US (band 103)**

*Type: WID new For: Endorsement  
 Source: Puloli*

(Replaces R5-222874)

**Decision:** The document was **endorsed**.

**R5-223325 New WID on UE Conformance – RF requirements enhancements for NR frequency range 1 (FR1)**

*Type: WID new For: Endorsement  
 Source: Huawei, China Telecom, CMCC, China Unicom*

(Replaces R5-222907)

**Decision:** The document was **endorsed**.

**R5-223326 New WID on UE Conformance - NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) including EPS aspects**

*Type: WID new For: Endorsement  
 Source: MediaTek Inc.*

(Replaces R5-222938)

**Decision:** The document was **endorsed**.

**R5-223329 New WID on UE Conformance – NR RRM Enhancements**

*Type: WID new For: Endorsement  
 Source: Apple Portugal*

(Replaces R5-223026)

**Discussion:**

AT&T asked to be added.

**Decision:** The document was **endorsed**.

**R5-223327 New WID on UE Conformance – Further enhancement on NR demodulation performance**

*Type: WID new For: Endorsement  
 Source: China Telecom, Qualcomm*

(Replaces R5-223121)

**Decision:** The document was **endorsed**.

**R5-223328 New WID on UE Conformance – Solutions for NR to support non-terrestrial networks (NTN)**

*Type: WID new For: Endorsement  
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces R5-223154)

**Discussion:**

include CT WI in the parent table

**Decision:** The document was **endorsed**.

#### 7.4.2 Active Work Items/ Study Item: work plans (wp), status reports (sr), Work Item Descriptions (wid)

**R5-222062 WI Progress and Target Completion Date Review**

*Type: other For: Information  
 Source: WG Chairman*

**Decision:** The document was **not treated**.

**R5-222125 WP UE Conformance Test Aspects - Support of eCall over IMS for NR**

*Type: Work Plan For: (not specified)  
 Source: Qualcomm India Pvt Ltd*

**Decision:** The document was **not treated**.

**R5-222126 SR UE Conformance Test Aspects - Support of eCall over IMS for NR**

*Type: WI status report For: (not specified)  
 Source: Qualcomm India Pvt Ltd*

**Decision:** The document was **not treated**.

**R5-222139 SR UE Conformance Test Aspects - Enhancements for Mission Critical Services MCPTT, MCData and MCVideo**

*Type: WI status report For: (not specified)  
 Source: NIST*

**Decision:** The document was **not treated**.

**R5-222140 WP UE Conformance Test Aspects - Enhancements for Mission Critical Services MCPTT, MCData and MCVideo**

*Type: Work Plan For: (not specified)  
 Source: NIST*

**Decision:** The document was **not treated**.

**R5-222210 SR - NR\_Rel-16\_CA\_DC after RAN5#95-e**

*Type: WI status report For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222211 WP - NR\_Rel-16\_CA\_DC after RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222212 SR - Rel-16 HST after RAN5#95-e**

*Type: WI status report For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222213 WP - Rel-16 HST after RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222214 Revised WID on UE Conformance Test Aspects for NR HST**

*Type: WID revised For: Endorsement  
 Source: CMCC*

**Decision:** The document was **endorsed**.

**R5-222216 SR - FS\_NR\_Slice\_Test after RAN5#95-e**

*Type: WI status report For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222217 WP - FS\_NR\_Slice\_Test after RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222218 SR - NR\_Rel-17\_PC1.5\_n79 after RAN5#95-e**

*Type: WI status report For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222219 WP - NR\_Rel-17\_PC1.5\_n79 after RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222220 SR - NR\_Rel-17\_PC2\_n34 after RAN5#95-e**

*Type: WI status report For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222221 WP - NR\_Rel-17\_PC2\_n34 after RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222222 SR - NR\_Rel-17\_PC2\_n39 after RAN5#95-e**

*Type: WI status report For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222223 WP - NR\_Rel-17\_PC2\_n39 after RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222247 WP UE Conformance Test Aspects - Rel-15 LTE CA configurations**

*Type: Work Plan For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222248 SR UE Conformance Test Aspects - Rel-15 LTE CA configurations**

*Type: WI status report For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222249 WP UE Conformance Test Aspects - Rel-16 LTE CA configurations**

*Type: Work Plan For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222250 SR UE Conformance Test Aspects - Rel-16 LTE CA configurations**

*Type: WI status report For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222251 WP UE Conformance Test Aspects - New Rel-16 NR bands and extension of existing NR bands**

*Type: Work Plan For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222252 SR UE Conformance Test Aspects - New Rel-16 NR bands and extension of existing NR bands**

*Type: WI status report For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222253 WP UE Conformance - Power Class 2 for EN-DC with xLTE band + yNR DL with 1LTE+1(TDD) NR UL band (x= 2, 3, 4, y=1; x=1, 2, y=2)**

*Type: Work Plan For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222254 SR UE Conformance - Power Class 2 for EN-DC with xLTE band + yNR DL with 1LTE+1(TDD) NR UL band (x= 2, 3, 4, y=1; x=1, 2, y=2)**

*Type: WI status report For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-222255 WP UE Conformance Test Aspects - Rel-16 Private Network Support for NG-RAN**

*Type: Work Plan For: Information  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **not treated**.

**R5-222256 SR UE Conformance Test Aspects - Rel-16 Private Network Support for NG-RAN**

*Type: WI status report For: Information  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **not treated**.

**R5-222280 WP UE Conformance Test Aspects for NR RF Requirement Enhancements for FR2**

*Type: Work Plan For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R5-222281 SR UE Conformance Test Aspects for NR RF Requirement Enhancements for FR2**

*Type: WI status report For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R5-222452 Revised WID - UE Conformance - Enhancement of data collection for SON and MDT in NR SA and MR-DC**

*Type: WID revised For: Endorsement  
 Source: CMCC*

**Abstract:**

Rapporteur change

**Discussion:**

r1

**Decision:** The document was **revised to R5-223482**.

**R5-223482 Revised WID - UE Conformance - Enhancement of data collection for SON and MDT in NR SA and MR-DC**

*Type: WID revised For: Endorsement  
 Source: CMCC*

(Replaces R5-222452)

**Decision:** The document was **endorsed**.

**R5-222453 SR - Rel-17 eNS\_Ph2-UEConTest after RAN5#95-e**

*Type: WI status report For: Information  
 Source: CMCC, CATT*

**Decision:** The document was **not treated**.

**R5-222454 WP - Rel-17 eNS\_Ph2-UEConTest after RAN5#95-e**

*Type: Work Plan For: Information  
 Source: CMCC, CATT*

**Discussion:**

the TF160 manager commented about wrong test case numbers for 10.1.7 /-1.

**Decision:** The document was **not treated**.

**R5-222455 SR - Rel-17 NR\_ENDC\_SON\_MDT\_enh-UEConTest after RAN5#95-e**

*Type: WI status report For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222456 WP - Rel-17 NR\_ENDC\_SON\_MDT\_enh-UEConTest after RAN5#95-e**

*Type: Work Plan For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222457 SR - NR\_SON\_MDT-UEConTest after RAN5#95-e**

*Type: WI status report For: Information  
 Source: CMCC, Ericsson*

**Decision:** The document was **not treated**.

**R5-222458 WP - NR\_SON\_MDT-UEConTest after RAN5#95-e**

*Type: Work Plan For: Information  
 Source: CMCC, Ericsson*

**Decision:** The document was **not treated**.

**R5-222576 WP UE Conformance Test Aspects - NR performance requirement enhancement**

*Type: Work Plan For: Approval  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **not treated**.

**R5-222577 WP UE Conformance Test Aspects - Rel -16 for CLI handling for NR**

*Type: Work Plan For: Approval  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **not treated**.

**R5-222578 SR UE Conformance Test Aspects - Rel -16 for CLI handling for NR**

*Type: WI status report For: Approval  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **not treated**.

**R5-222579 WP - UE Conformance Test Aspects for NR-based Access to Unlicensed Spectrum**

*Type: Work Plan For: Approval  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **not treated**.

**R5-222580 SR - UE Conformance Test Aspects for NR-based Access to Unlicensed Spectrum**

*Type: WI status report For: Approval  
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **not treated**.

**R5-222612 Work plan: UE Conformance Test Aspects for NR Positioning Support**

*Type: Work Plan For: Endorsement  
 Source: CATT*

**Decision:** The document was **not treated**.

**R5-222613 SR UE Conformance Test Aspects - NR Positioning Support**

*Type: WI status report For: Endorsement  
 Source: CATT*

**Decision:** The document was **not treated**.

**R5-222614 Work plan: UE Conformance Test Aspects – UE power saving in NR**

*Type: Work Plan For: Endorsement  
 Source: CATT*

**Decision:** The document was **not treated**.

**R5-222615 SR UE Conformance Test Aspects - UE power saving in NR**

*Type: WI status report For: Endorsement  
 Source: CATT*

**Decision:** The document was **not treated**.

**R5-222678 WP - UE Conformance Test Aspects - 29 dBm UE Power Class for LTE Band 41and NR Band n41 (UID-920068)**

*Type: Work Plan For: Endorsement  
 Source: T-Mobile USA Inc.*

**Decision:** The document was **not treated**.

**R5-222679 SR - UE Conformance Test Aspects - 29 dBm UE Power Class for LTE Band 41and NR Band n41 (UID-920068)**

*Type: WI status report For: Endorsement  
 Source: T-Mobile USA Inc.*

**Decision:** The document was **not treated**.

**R5-222680 Revised WID - UE Conformance Test Aspects - 29 dBm UE Power Class for LTE Band 41and NR Band n41**

*Type: WID revised For: Endorsement  
 Source: T-Mobile USA Inc.*

**Decision:** The document was **withdrawn**.

**R5-222685 WP on ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest for RAN5#95e**

*Type: Work Plan For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R5-222686 SR on ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest for RAN5#95e**

*Type: WI status report For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R5-222687 WP on NR\_redcap\_plus\_ARCH-UEConTest for RAN5#95e**

*Type: Work Plan For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R5-222688 SR on NR\_redcap\_plus\_ARCH-UEConTest for RAN5#95e**

*Type: WI status report For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R5-222797 SR of Rel-16 NR Mobility Enhancement WI after RAN5 95e**

*Type: WI status report For: Endorsement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-222798 NR Mobility Enhancement WP after RAN5 95e**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-222799 Revised WID on UE conformance test aspects for NR mobility enhancements**

*Type: WID revised For: Agreement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-222809 SR of Rel-16 NR V2X WI after RAN5 95e**

*Type: WI status report For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-222810 WP of Rel-16 NR V2X WI after RAN5 95e**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-222828 WP UE Conformance - Multi-SIM devices for LTE/NR**

*Type: Work Plan For: Information  
 Source: China Telecommunications*

**Decision:** The document was **not treated**.

**R5-223297 SR UE Conformance - Multi-SIM devices for LTE/NR**

*Type: WI status report For: Information  
 Source: China Telecommunications*

**Decision:** The document was **not treated**.

**R5-222833 WP - Common RF requirement configured output power for EN-DC with 3 uplink CC and 2 different bands (2CC LTE, 1CC NR FR1)**

*Type: Work Plan For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222834 SR - Common RF requirement configured output power for EN-DC with 3 uplink CC and 2 different bands (2CC LTE, 1CC NR FR1)**

*Type: WI status report For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222840 SR of Rel-17 NR MBS WI after RAN5 95e**

*Type: WI status report For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-222841 WP of Rel-17 NR MBS WI after RAN5 95e**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-222908 WP - Enhancements on MIMO for NR**

*Type: Work Plan For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222909 SR - Enhancements on MIMO for NR**

*Type: WI status report For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222910 WP - RF requirements for NR frequency range 1 (FR1)**

*Type: Work Plan For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222911 SR - RF requirements for NR frequency range 1 (FR1)**

*Type: WI status report For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222912 WP - NR URLLC**

*Type: Work Plan For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222913 SR - NU URLLC**

*Type: WI status report For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222931 WP - Transparent Tx Diversity (TxD) for NR**

*Type: Work Plan For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222932 SR - Transparent Tx Diversity (TxD) for NR**

*Type: WI status report For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R5-222990 WP NR\_2step\_RACH-UEConTest**

*Type: Work Plan For: (not specified)  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R5-222991 SR NR\_2step\_RACH-UEConTest**

*Type: WI status report For: (not specified)  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R5-223073 Revised WID on UE conformance test aspects for R16 NR mobility enhancements**

*Type: WID revised For: Agreement  
 Source: Huawei, Hisilicon*

**Abstract:**

change rapp., extending to June

**Decision:** The document was **endorsed**.

**R5-223090 SR of Rel-17 NR MBS WI after RAN5 95e**

*Type: WI status report For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223091 WP of Rel-17 NR MBS WI after RAN5 95e**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223108 SR UE Conformance Test Aspects for NR performance requirement enhancement RAN5#95e**

*Type: WI status report For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223109 WP UE Conformance NR Coverage Enhancement RAN5#95e**

*Type: Work Plan For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223110 SR UE Conformance NR Coverage Enhancement RAN5#95e**

*Type: WI status report For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223111 SR UE Conformance Aspects - Even further mobility enhancement in E-UTRAN RAN5#95e**

*Type: WI status report For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223112 WP UE Conformance Aspects - Even further mobility enhancement in E-UTRAN RAN5#95e**

*Type: Work Plan For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223113 SR UE Conformance SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL RAN5#95e**

*Type: WI status report For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223114 WP UE Conformance SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL RAN5#95e**

*Type: Work Plan For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223115 SR UE Conformance Rel-17 High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x=1,2) RAN5#95e**

*Type: WI status report For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223116 WP UE Conformance Rel-17 High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x=1,2) RAN5#95e**

*Type: Work Plan For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R5-223117 Revised WID on UE Conformance - NR coverage enhancements**

*Type: WID revised For: Endorsement  
 Source: China Telecom, Huawei, Hisilicon*

**Decision:** The document was **endorsed**.

**R5-223143 WP of New Rel-17 NR licensed bands and extension of existing NR bands**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223144 SR of New Rel-17 NR licensed bands and extension of existing NR bands**

*Type: WI status report For: Endorsement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223145 WP of Rel-17 NR CA and DC; and NR and LTE DC Configurations**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223146 SR of Rel-17 NR CA and DC; and NR and LTE DC Configurations**

*Type: WI status report For: Endorsement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223147 WP of Additional NR bands for UL-MIMO in Rel-17**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223148 SR of Additional NR bands for UL-MIMO in Rel-17**

*Type: WI status report For: Endorsement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223149 WP of FR2 FWA UE with maximum TRP of 23dBm for band n257 and n258**

*Type: Work Plan For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223150 SR of FR2 FWA UE with maximum TRP of 23dBm for band n257 and n258**

*Type: WI status report For: Endorsement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223152 WP for HPUE\_PC1\_5\_n77\_n78-UEConTest for RAN5#95-e**

*Type: Work Plan For: (not specified)  
 Source: Verizon Switzerland AG*

**Decision:** The document was **not treated**.

**R5-223155 Revised WID on UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78**

*Type: WID revised For: Endorsement  
 Source: Verizon Switzerland AG*

**Decision:** The document was **revised to R5-223303**.

**R5-223298 SR UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78**

*Type: WI status report For: Endorsement  
 Source: Verizon Switzerland AG*

**Decision:** The document was **not treated**.

**R5-223303 Revised WID on UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78**

*Type: WID revised For: Endorsement  
 Source: Verizon Switzerland AG*

(Replaces R5-223155)

**Abstract:**

Editorial

**Decision:** The document was **endorsed**.

**R5-223259 SR of LTE-NR & NR-NR Dual Connectivity and NR CA enhancements for RAN\_WG5\_95e**

*Type: WI status report For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R5-223262 WP for LTE-NR & NR-NR Dual Connectivity and NR CA enhancements for RAN\_WG\_95e**

*Type: Work Plan For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R5-223295 WP UE Conformance Test Aspects – Rel14 Enhanced Full Dimension MIMO for LTE**

*Type: Work Plan For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223296 SR UE Conformance Test Aspects – Rel14 Enhanced Full Dimension MIMO for LTE**

*Type: WI status report For: Information  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R5-223304 Revised WID on UE Conformance Test Aspects - High power UE (power class 2) for NR band n34**

*Type: WID revised For: Endorsement  
 Source: CMCC*

**Decision:** The document was **endorsed**.

**R5-223307 UE Conformance - Multi-SIM devices for LTE/NR**

*Type: WID revised For: Endorsement  
 Source: China Telecom*

**Abstract:**

correct title and WIC

**Decision:** The document was **endorsed**.

#### 7.4.3 Work Plan updates of recently closed work items

**R5-222246 WP Rel-15 5GS maintenance**

*Type: Work Plan For: Information  
 Source: Ericsson*

**Abstract:**

Post meeting document

**Decision:** The document was **not treated**.

**R5-222419 WP UE Conformance Test Aspects- SRVCC\_NR\_to\_UMTS**

*Type: Work Plan For: Information  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R5-222611 Revised WID on UE Conformance Test Aspects for NR Positioning Support**

*Type: WID revised For: Endorsement  
 Source: CATT*

**Discussion:**

sub-AI!

r2

add progress of TTCN tracked in 38.523-3.

**Decision:** The document was **revised to R5-223483**.

**R5-223483 Revised WID on UE Conformance Test Aspects for NR Positioning Support**

*Type: WID revised For: Endorsement  
 Source: CATT*

(Replaces R5-222611)

**Decision:** The document was **endorsed**.

### 7.5 Docs still needing agreement/endorsement/approval (e.g. Outgoing LS, Reports, New Specs, Info for certification bodies etc.)

**R5-222225 draft TR 38.918 v0.5.0**

*Type: draft TR For: Approval  
 38.918 v0.5.0  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R5-222226 TR 38.918 v1.0.0**

*Type: TS or TR cover For: Endorsement  
 38.918 v1.0.0  
 Source: CMCC*

**Decision:** The document was **withdrawn**.

**R5-222245 RAN5#95 summary of changes to RAN5 test cases with potential impact on GCF and PTCRB**

*Type: report For: Information  
 Source: Ericsson*

**Abstract:**

Post meeting document

**Decision:** The document was **not treated**.

**R5-223308 MCC TF160 Status Report**

*Type: report For: Approval  
 Source: MCC TF160*

(Replaces R5-222361)

**Decision:** The document was **approved**.

**R5-222802 TS 36.523-1 Tracker status after RAN5-94e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-222803 TS 38.523-1 Tracker status after RAN5-94e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R5-223076 TS 36.523-1 Tracker status after RAN5-95e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223077 TS 38.523-1 Tracker status after RAN5-95e**

*Type: other For: Information  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R5-223638 LS to RAN4 on TT work for NR FR1 TRP TS**

*Type: LS out For: Approval  
 to TSG WG RAN4, TSG RAN  
 Source: TSG WG RAN5*

**Abstract:**

Following the finalization of the RAN4 R17 NR FR1 TRP TRS WI core part, during RAN5#95-e a new WID has been reviewed and endorsed to start a work item to deliver conformance test cases for NR FR1 TRP and TRS requirements [1]. As part of the objective of this new WI, it is stated that RAN5 has primary responsibility for Measurement Uncertainty (MU) assessment for FR1 TRP/TRS for which a preliminary/placeholder MU table has been added in Annex B of TR 38.834, further optimizing and finalizing MU values and then determine Test Tolerance (TT) for the defined test requirements.

As part of this work, any optimization of the MU assessment will be captured in the RAN5 NR FR1 TRP/TRS test specification, but also in TR 38.834 as part of the maintenance phase.

With regards to the derivation of TT for OTA testing, there has been precedence of RAN4 kindly providing recommendations on TT along with core requirements, methodology and MU.

1) [2] shows the earliest such precedence wherein the “TRP and TRS OTA performance requirements, measurement uncertainty and test tolerance values are agreed as package as summarized” in [3] as inputs to TS 34.114 [5], while allowing for further refinements to MU in RAN5.

2) The above precedence was continued in [4] wherein RAN4 provided test tolerance recommendations for LTE MIMO OTA.

3) For 5G NR FR2 OTA, due to ecosystem needs RAN4 shifted the MU work to RAN5 as per [6] in response to the RAN5 LS in [7] and RAN5 picked up all subsequent TT definitions.

Based on the process being followed in RAN4 to derive NR FR1 TRP TRS requirements built on performance campaign test results, RAN5 understands that there is a deep relation between radiated performance requirement definition in RAN4, derived from test campaign results, and TT as indicated by the precedence in 1) and 2) above.

Therefore, RAN5 respectfully requests RAN4 to provide recommendations on test tolerance values for NR FR1 TRP and TRS along with a thorough description of the core requirements definition process so implications from MU and TT can be clarified and considered during the definition of TT in the RAN5 test specification.

2 Actions

To RAN4

ACTION: RAN5 respectfully asks RAN4 to take the above information into account and provide RAN5 with recommendations on test tolerance values for NR FR1 TRP and TRS along with a thorough description of the core requirements definition process so that implications from MU and TT can be clarified and considered during the definition of TT in RAN5 test specification.

**Discussion:**

(Jose)

RF Closing Session:

deferred to be concluded for consensus to send and LS approval verdict date to be finalized in closing Joint.

Feedback to update LS to indicate precedent UMTS Ota requirements where RAN4 provided TT factor, justify the need for RAN plenary CC and reword.

No opposition to send the LS at the moment , waits for content clarity

Closing joint:

Qualcomm expressed the opinion that this LS is not needed. Ericsson agreed to this.

But no standing objection.

Orange in favour of sending it.

RAN5 Vice Chair RF: this doc cannot be not used to stop TT discussions.

**Decision:** The document was **approved**.

### 7.6 Confirmation of Future RAN5 Matters

**R5-222063 Review deadlines for next quarter**

*Type: other For: Information  
 Source: WG Chairman*

**Decision:** The document was **noted**.

### 7.7 AOB

**R5-222072 draft RAN5#95-e meeting report**

*Type: report For: Information  
 Source: ETSI Secretariat*

**Decision:** The document was **noted**.

## Annex A: Contribution documents and status

### A1: List of TDocs

1740 documents were submitted at RAN5#95-e. Plus 634 informal revisions (not shown here)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| R5-222050 | Agenda - opening session | WG Chairman | revised |  | R5-223289 |
| R5-222051 | RAN5#95-e E-Meeting Timelines, Scope, Process | WG Chairman | noted |  |  |
| R5-222052 | RAN5 Leadership Team | WG Chairman | noted |  |  |
| R5-222053 | RAN5#94-e WG Minutes | ETSI Secretariat | approved |  |  |
| R5-222054 | RAN5#94-e WG Action Points | ETSI Secretariat | noted |  |  |
| R5-222055 | Latest RAN Plenary notes | WG Chairman | noted |  |  |
| R5-222056 | Latest RAN Plenary draft Report | WG Chairman | noted |  |  |
| R5-222057 | Post Plenary Active Work Item update | ETSI Secretariat | noted |  |  |
| R5-222058 | RAN5 SR to RP#95-e | WG Chairman | noted |  |  |
| R5-222059 | TF160 SR to RP#95-e | WG Chairman | noted |  |  |
| R5-222060 | RAN5#95-e LS Template | WG Chairman | noted |  |  |
| R5-222061 | Meeting schedule for 2022-23 | WG Chairman | revised |  | R5-223335 |
| R5-222062 | WI Progress and Target Completion Date Review | WG Chairman | reserved |  |  |
| R5-222063 | Review deadlines for next quarter | WG Chairman | noted |  |  |
| R5-222064 | NGMN Liaison Statement on Definition of the Testing Framework for 5G Device Network Slicing Pre-Commercial Trials | NGNM | noted |  |  |
| R5-222065 | Reply LS on ambiguity in deciding TL,C | TSG WG RAN4 | noted |  |  |
| R5-222066 | Response LS to RAN5 on LTE REFSENS Exceptions Simplification | TSG WG RAN4 | noted |  |  |
| R5-222067 | Further Reply LS on requirement in Power Class 2 for UL MIMO | TSG WG RAN4 | noted |  |  |
| R5-222068 | LS on time mask for TDM NR Uu-SL intra-band concurrent switching | TSG WG RAN4 | noted |  |  |
| R5-222069 | Reply LS on configuration of p-MaxEUTRA and p-NR-FR1 | TSG WG RAN4 | noted |  |  |
| R5-222070 | Reply LS on configuration of p-MaxEUTRA and p-NR-FR1 | TSG WG RAN1 | noted |  |  |
| R5-222071 | LS on CTIA Certification OTA Performance Test Plan Version 4.0 Publication | CTIA OTA | noted |  |  |
| R5-222072 | draft RAN5#95-e meeting report | ETSI Secretariat | noted |  |  |
| R5-222073 | Corrections to C.27 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222074 | Re-instating pc\_PS\_data\_off | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222075 | Corrections and amendments of IMS5GS applicability statements | ROHDE & SCHWARZ | revised |  | R5-223498 |
| R5-222076 | Corrections to A.15 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222077 | Corrections to A.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222078 | Corrections to A.5 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222079 | Corrections to A.9 | ROHDE & SCHWARZ | revised |  | R5-223455 |
| R5-222080 | Corrections to initial EVS offers | ROHDE & SCHWARZ, Huawei, HiSilicon | revised |  | R5-223456 |
| R5-222081 | Corrections to TC 7.1 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222082 | Corrections to TC 7.4 | ROHDE & SCHWARZ, Huawei, HiSilicon | revised |  | R5-223457 |
| R5-222083 | Corrections to TC 7.4a | ROHDE & SCHWARZ | revised |  | R5-223458 |
| R5-222084 | Corrections to TC 7.5 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222085 | Corrections to TC 7.6 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222086 | Corrections to TC 7.7 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222087 | Corrections to TC 7.8 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222088 | Corrections to TC 7.9 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222089 | Corrections to TC 7.10 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222090 | Corrections to TC 7.12 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222091 | Corrections to TC 7.13 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222092 | Corrections to TC 7.14 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222093 | Corrections to TC 7.15 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222094 | Corrections to TC 7.17 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222095 | Corrections to TC 7.18 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222096 | Corrections to TC 7.19 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222097 | Corrections to TC 7.20 | ROHDE & SCHWARZ, Huawei, HiSilicon | revised |  | R5-223459 |
| R5-222098 | Corrections to TC 7.22 | ROHDE & SCHWARZ | revised |  | R5-223481 |
| R5-222099 | Corrections to TC 7.23 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222100 | Corrections to TC 7.24a | ROHDE & SCHWARZ | agreed |  |  |
| R5-222101 | Corrections to TC 7.24b | ROHDE & SCHWARZ, Keysight Technologies | agreed |  |  |
| R5-222102 | Corrections to TC 7.25 | ROHDE & SCHWARZ | revised |  | R5-223460 |
| R5-222103 | Corrections to TC 8.6 | ROHDE & SCHWARZ | revised |  | R5-223461 |
| R5-222104 | Corrections to TC 8.25 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222105 | Corrections to TC 8.27 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222106 | Corrections to TC 8.34 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222107 | Corrections to TC 8.35 | ROHDE & SCHWARZ | revised |  | R5-223462 |
| R5-222108 | Corrections to TC 8.37 | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222109 | Corrections to TC 8.38 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222110 | Corrections to TC 10.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222111 | Correction to NR MAC test case 7.1.1.1.2 | Keysight Technologies UK, Qualcomm, Rohde&Schwarz | revised |  | R5-223419 |
| R5-222112 | Correction to NR MAC test case 7.1.1.3.3 | Keysight Technologies UK, Qualcomm | revised |  | R5-223420 |
| R5-222113 | Correction to NR MAC test case 7.1.1.2.4 | Keysight Technologies UK, Qualcomm | agreed |  |  |
| R5-222114 | Correction to NR SDAP test case 7.1.4.1 | Keysight Technologies UK | agreed |  |  |
| R5-222115 | Correction to NR RRC test case 8.1.5.2.2 | Keysight Technologies UK, Qualcomm | agreed |  |  |
| R5-222116 | Correction to SON-MDT test case 8.1.6.1.2.1 | Keysight Technologies UK | agreed |  |  |
| R5-222117 | Correction to SON-MDT test case 8.1.6.1.2.3 | Keysight Technologies UK | agreed |  |  |
| R5-222118 | Correction to SON-MDT test case 8.1.6.1.2.4 | Keysight Technologies UK | agreed |  |  |
| R5-222119 | Correction to SON-MDT test case 8.1.6.1.2.9 | Keysight Technologies UK | agreed |  |  |
| R5-222120 | Correction to RACS test case 9.1.9.7 | Keysight Technologies UK, Huawei, HiSilicon | agreed |  |  |
| R5-222121 | Correction to 3GPP PS Data Off test case 11.6.2 | Keysight Technologies UK | withdrawn |  |  |
| R5-222122 | Correction for Procedure for UE-requested PDU session modification after the first S1 to N1 mode change | Keysight Technologies UK | agreed |  |  |
| R5-222123 | Guideline for handling PRD21 CDS documents at RAN5#95-e | Ericsson | revised |  | R5-223336 |
| R5-222124 | Update of 5G-NR test cases applicability | Qualcomm Incorporated, Lenovo, Motorola Mobility, Element Materials Technology, CATT, TDIA | revised |  | R5-223442 |
| R5-222125 | WP UE Conformance Test Aspects - Support of eCall over IMS for NR | Qualcomm India Pvt Ltd | available |  |  |
| R5-222126 | SR UE Conformance Test Aspects - Support of eCall over IMS for NR | Qualcomm India Pvt Ltd | available |  |  |
| R5-222127 | Corrections to IMS over 5GS XCAP test cases | Keysight Technologies UK, Qualcomm | agreed |  |  |
| R5-222128 | Correction to generic procedure A.5.1 | Keysight Technologies UK, Qualcomm | withdrawn |  |  |
| R5-222129 | Correction to generic procedure C.29.1 | Keysight Technologies UK | revised |  | R5-223452 |
| R5-222130 | Continuing and hopefully finalizing the discussion on PICS for NG.114 | ROHDE & SCHWARZ | noted |  |  |
| R5-222131 | Discussion on NAS support for IMS multiparty scenarios | ROHDE & SCHWARZ | noted |  |  |
| R5-222132 | Addition of SIB11 to common environment for early measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223399 |
| R5-222133 | Correction of 36.579-2 TC 6.2.10 | NIST | withdrawn |  |  |
| R5-222134 | Correction of 36.579-2 TC 6.2.11 | NIST | withdrawn |  |  |
| R5-222135 | Correction of 36.579-2 TC 6.2.22 | NIST | withdrawn |  |  |
| R5-222136 | Correction of 36.579-2 TC 6.2.23 | NIST | withdrawn |  |  |
| R5-222137 | Correction of 36.579-2 TC 6.2.26 | NIST | withdrawn |  |  |
| R5-222138 | Correction of 36.579-2 TC 6.2.9 | NIST | withdrawn |  |  |
| R5-222139 | SR UE Conformance Test Aspects - Enhancements for Mission Critical Services MCPTT, MCData and MCVideo | NIST | reserved |  |  |
| R5-222140 | WP UE Conformance Test Aspects - Enhancements for Mission Critical Services MCPTT, MCData and MCVideo | NIST | reserved |  |  |
| R5-222141 | New MCData off-network signalling messages in 5.5.3.8 | NIST | agreed |  |  |
| R5-222142 | New MCVideo Off-network Message Defaults 5.5.14 | NIST | agreed |  |  |
| R5-222143 | New MCData Test Case 7.1.1 Off-network SDS 1-to-1 call CO | NIST | agreed |  |  |
| R5-222144 | New MCData Test Case 7.1.2 Off-network SDS 1-to-1 call CT | NIST | agreed |  |  |
| R5-222145 | New MCData Test Case 7.1.3 Off-network SDS group call CO | NIST | agreed |  |  |
| R5-222146 | New MCData Test Case 7.1.4 Off-network SDS group call CT | NIST | agreed |  |  |
| R5-222147 | New MCData Test Case 7.2.1 Off-network Enhanced Status CO | NIST | agreed |  |  |
| R5-222148 | New MCData Test Case 7.2.2 Off-network Enhanced Status CT | NIST | agreed |  |  |
| R5-222149 | New MCVIDEO OFF-NETWORK TC 7.1.1.1 Off-network Basic Group Call CO | NIST | agreed |  |  |
| R5-222150 | New MCVIDEO OFF-NETWORK TC 7.1.1.2 Off-network Basic Group Call CT | NIST | agreed |  |  |
| R5-222151 | New MCVIDEO OFF-NETWORK TC 7.1.1.3 Off-network Emergency Call CO | NIST | agreed |  |  |
| R5-222152 | New MCVIDEO OFF-NETWORK TC 7.1.1.4 Off-network Emergency Call CT | NIST | agreed |  |  |
| R5-222153 | New MCVIDEO OFF-NETWORK TC 7.1.1.5 Off-network Imminent Peril Call CO | NIST | agreed |  |  |
| R5-222154 | New MCVIDEO OFF-NETWORK TC 7.1.1.6 Off-network Imminent Peril Call CT | NIST | agreed |  |  |
| R5-222155 | New MCVIDEO OFF-NETWORK TC 7.1.2.1 Off-network Broadcast Call CO | NIST | agreed |  |  |
| R5-222156 | New MCVIDEO OFF-NETWORK TC 7.1.2.2 Off-network Broadcast Call CT | NIST | agreed |  |  |
| R5-222157 | New MCVIDEO OFF-NETWORK TC 7.2.1 Off-network Auto Private Call CO | NIST | agreed |  |  |
| R5-222158 | New MCVIDEO OFF-NETWORK TC 7.2.2 Off-network Auto Private Call CT | NIST | agreed |  |  |
| R5-222159 | New MCVIDEO OFF-NETWORK TC 7.2.3 Off-network Manual Private Call CO | NIST | agreed |  |  |
| R5-222160 | New MCVIDEO OFF-NETWORK TC 7.2.4 Off-network Manual Private Call CT | NIST | agreed |  |  |
| R5-222161 | New MCVIDEO OFF-NETWORK TC 7.3.1 Off-network Emergency Alert CO | NIST | agreed |  |  |
| R5-222162 | New MCVIDEO OFF-NETWORK TC 7.3.2 Off-network Emergency Alert CT | NIST | agreed |  |  |
| R5-222163 | Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases | NIST | revised |  | R5-223384 |
| R5-222164 | Applicabality Additions for TCs 13.1.23, 13.1.24, and 13.1.1.25 | NIST | revised |  | R5-223450 |
| R5-222165 | Discussion on Introduction of test cases for LTE-MCVideo and LTE-MCData | NIST, FirstNet, AT&T | noted |  |  |
| R5-222166 | New TC 13.1.23 MCVideo with Dedicated Bearer of QCI 67-Attach-Call setup CO | NIST | revised |  | R5-223447 |
| R5-222167 | New TC 13.1.24 MCVideo with Dedicated Bearer of QCI 2-Attach-Call setup CO | NIST | withdrawn |  |  |
| R5-222168 | New TC 13.1.25 MCData-Attach-Call setup CO | NIST | revised |  | R5-223448 |
| R5-222169 | Adding specs to References for MCData and MCVideo | NIST | agreed |  |  |
| R5-222170 | Correction of 36.523-1 TC 13.1.22 MCPTT Call Setup CO | NIST | revised |  | R5-223449 |
| R5-222171 | New WID on UE Conformance - NR Sidelink Relay | CATT, China Telecom | revised |  | R5-223309 |
| R5-222172 | New WID on UE Conformance - NR sidelink enhancement | CATT, Huawei | revised |  | R5-223310 |
| R5-222173 | Introduction of test frequencies for CA\_n77C BCS0 and BCS1 | Ericsson | agreed |  |  |
| R5-222174 | Correction to n46 ARFCN | ROHDE & SCHWARZ | agreed |  |  |
| R5-222175 | Introduction of test frequencies for CA\_n77C for protocol testing | Ericsson | agreed |  |  |
| R5-222176 | New WID on UE Conformance - High power UE (power class 2) for one NR FDD band | China Unicom | revised |  | R5-223311 |
| R5-222177 | New WID on UE Conformance - 4Rx support for NR band n8 | China Unicom | revised |  | R5-223312 |
| R5-222178 | Update to Rel-16 NR Mobility Enhancement test case 8.2.3.18.3 | CATT, TDIA | agreed |  |  |
| R5-222179 | Update to SRVCC from 5G to 3G test case 8.1.3.2.6 and 8.1.3.2.7 | CATT, TDIA | revised |  | R5-223342 |
| R5-222180 | Correction of 5GS IMS test case 11.4.12 | NTTDOCOMO,INC | revised |  | R5-223438 |
| R5-222181 | Correction to TC 11.3.8 UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running | CATT, TDIA | revised |  | R5-223434 |
| R5-222182 | Correction to EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX including TT | Anritsu | revised |  | R5-223607 |
| R5-222183 | Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX | Anritsu | revised |  | R5-223608 |
| R5-222184 | Correction to Condition of Applicability for TC9.2.1.7 and TC9.2.1.8 | SGS Wireless | agreed |  |  |
| R5-222185 | Discussion on handling of TxD Work Plan for receiver test cases | CAICT | revised |  | R5-223643 |
| R5-222186 | Discussion on NR part UL power testing for Rel-15 PC2 UEs of Inter-band EN-DC within FR1 | CAICT | revised |  | R5-223645 |
| R5-222187 | Correction of Number of test points for V2X SEM and V2X ACLR in 38.521-1 | CAICT | agreed |  |  |
| R5-222188 | Correction of Justification in attachment for UL MIMO MPR and ACLR in 38.521-1 | CAICT | agreed |  |  |
| R5-222189 | Correction of test points analysis of 2UL CA ACLR test case in 38.521-1 | CAICT | agreed |  |  |
| R5-222190 | Correction of test applicability for 6.4.2.5 of 38.521-1 | CAICT | agreed |  |  |
| R5-222191 | Separation of 6.2B.1.4D of 38.521-3 into two test cases | CAICT | agreed |  |  |
| R5-222192 | Correction of minimum requirement and test requirement of 6.2B.1.3 | CAICT | agreed |  |  |
| R5-222193 | Correction of Transmitter power test requirements for EN-DC within FR1 | CAICT | revised |  | R5-223833 |
| R5-222194 | Correction of reference section numbers in 6.4E and title of 6.4E.2.1.2 | CAICT | agreed |  |  |
| R5-222195 | Correction of test requirement of 6.2B.2.1 | CAICT | agreed |  |  |
| R5-222196 | Separation of 6.2B.1.4D into two test cases | CAICT | agreed |  |  |
| R5-222197 | Correction of clause numbers in 6.2B.1.3a | CAICT | agreed |  |  |
| R5-222198 | Correction of table numbers in 6.2D.2.5 | CAICT | agreed |  |  |
| R5-222199 | Correction of Test Environment for UL MIMO MPR test case | CAICT | agreed |  |  |
| R5-222200 | Removing the empty space in the table number of Table 7.3.2.3-1a and correct the style of table title of Table 7.3.2.3-1b | CAICT | agreed |  |  |
| R5-222201 | Correction of test metric of out of band emission for UL MIMO | CAICT | agreed |  |  |
| R5-222202 | Correction of Test Environment in Table 6.5A.2.2.1.4.1-2 | CAICT | agreed |  |  |
| R5-222203 | Correction of test applicability of 6.4.2.5 | CAICT | agreed |  |  |
| R5-222204 | Moving test requirement of 6.3E.1.1D to the correct section and correction of style of some table notes | CAICT | agreed |  |  |
| R5-222205 | Correction of clause style in 6.2E.2.2 | CAICT | agreed |  |  |
| R5-222206 | Removing FFS for the test configuration table in 6.2E.1.1.4.1 | CAICT | agreed |  |  |
| R5-222207 | Moving additional tolerance in 6.2A.3.1.5 and 6.2D.3.5 to end of the section | CAICT, Nokia, Nokia Shanghai Bell | revised |  | R5-223804 |
| R5-222208 | Alignment of of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3 | CAICT | revised |  | R5-223797 |
| R5-222209 | Correction of test channel bandwidth | CAICT | withdrawn |  |  |
| R5-222210 | SR - NR\_Rel-16\_CA\_DC after RAN5#95-e | CMCC | reserved |  |  |
| R5-222211 | WP - NR\_Rel-16\_CA\_DC after RAN5#95-e | CMCC | reserved |  |  |
| R5-222212 | SR - Rel-16 HST after RAN5#95-e | CMCC | available |  |  |
| R5-222213 | WP - Rel-16 HST after RAN5#95-e | CMCC | available |  |  |
| R5-222214 | Revised WID on UE Conformance Test Aspects for NR HST | CMCC | endorsed |  |  |
| R5-222215 | New WID on UE Conformance - Enhanced NR support for high speed train scenario for frequency range 1 (FR1) | CMCC | revised |  | R5-223313 |
| R5-222216 | SR - FS\_NR\_Slice\_Test after RAN5#95-e | CMCC | available |  |  |
| R5-222217 | WP - FS\_NR\_Slice\_Test after RAN5#95-e | CMCC | available |  |  |
| R5-222218 | SR - NR\_Rel-17\_PC1.5\_n79 after RAN5#95-e | CMCC | available |  |  |
| R5-222219 | WP - NR\_Rel-17\_PC1.5\_n79 after RAN5#95-e | CMCC | available |  |  |
| R5-222220 | SR - NR\_Rel-17\_PC2\_n34 after RAN5#95-e | CMCC | available |  |  |
| R5-222221 | WP - NR\_Rel-17\_PC2\_n34 after RAN5#95-e | CMCC | available |  |  |
| R5-222222 | SR - NR\_Rel-17\_PC2\_n39 after RAN5#95-e | CMCC | available |  |  |
| R5-222223 | WP - NR\_Rel-17\_PC2\_n39 after RAN5#95-e | CMCC | available |  |  |
| R5-222224 | PRD21 on NR bands and 5G NR CADC config handling v1.1.0 | CMCC, Ericsson | reserved |  |  |
| R5-222225 | draft TR 38.918 v0.5.0 | CMCC | reserved |  |  |
| R5-222226 | TR 38.918 v1.0.0 | CMCC | withdrawn |  |  |
| R5-222227 | Removal of PC1.5 from TC 6.2.1 MOP | CMCC | revised |  | R5-223773 |
| R5-222228 | Removal of PC1.5 from TC 6.2.2 MPR | CMCC | revised |  | R5-223774 |
| R5-222229 | Removal of PC1.5 from TC 6.2.3 A-MPR | CMCC | revised |  | R5-223775 |
| R5-222230 | Removal of PC1.5 from TC 6.5.2.4.1 ACLR | CMCC | revised |  | R5-223776 |
| R5-222231 | Update of Demod TC 5.2.2.1.9\_1 2Rx FDD FR1 HST-SFN performance | CMCC, Huawei, HiSilicon | agreed |  |  |
| R5-222232 | Update of Demod TC 5.2.3.1.1\_1 4Rx FDD FR1 PDSCH mapping Type A perf for NR HST | CMCC, LG Electronics | agreed |  |  |
| R5-222233 | Update of Demod TC 5.2.3.1.9\_1 4Rx FDD FR1 HST-SFN performance | CMCC | agreed |  |  |
| R5-222234 | Update of Demod TC 5.2.3.1.10\_1 4Rx FDD FR1 HST-DPS performance | CMCC | agreed |  |  |
| R5-222235 | PRD21 CDS: PC3 for CA\_n3A-n41A | CMCC | withdrawn |  |  |
| R5-222236 | PRD21 CDS: PC3 for CA\_n41A-n79A | CMCC | reserved |  |  |
| R5-222237 | PRD21 CDS: PC3 for CA\_n41C BCS1 | CMCC | reserved |  |  |
| R5-222238 | PRD21 CDS: PC3 for CA\_n41C | CMCC | reserved |  |  |
| R5-222239 | PRD21 CDS: PC3 for CA\_n41C-n79A | CMCC | reserved |  |  |
| R5-222240 | PRD21 CDS: PC3 for CA\_n41A-n79A BCS1 | CMCC | reserved |  |  |
| R5-222241 | Update Spurious emissions for UE co-existence for CA\_n41C | CMCC | agreed |  |  |
| R5-222242 | GCF 3GPP TCL after GCF CAG#70 | Ericsson | revised |  | R5-223334 |
| R5-222243 | 3GPP RAN5 PRD19 v1.3.0: RAN5 generic work plan to v1.3.0 | Ericsson | approved |  |  |
| R5-222244 | 3GPP RAN5 PRD20 v1.1.0: CA status list | Ericsson | available |  |  |
| R5-222245 | RAN5#95 summary of changes to RAN5 test cases with potential impact on GCF and PTCRB | Ericsson | reserved |  |  |
| R5-222246 | WP Rel-15 5GS maintenance | Ericsson | reserved |  |  |
| R5-222247 | WP UE Conformance Test Aspects - Rel-15 LTE CA configurations | Ericsson | available |  |  |
| R5-222248 | SR UE Conformance Test Aspects - Rel-15 LTE CA configurations | Ericsson | available |  |  |
| R5-222249 | WP UE Conformance Test Aspects - Rel-16 LTE CA configurations | Ericsson | available |  |  |
| R5-222250 | SR UE Conformance Test Aspects - Rel-16 LTE CA configurations | Ericsson | available |  |  |
| R5-222251 | WP UE Conformance Test Aspects - New Rel-16 NR bands and extension of existing NR bands | Ericsson | available |  |  |
| R5-222252 | SR UE Conformance Test Aspects - New Rel-16 NR bands and extension of existing NR bands | Ericsson | available |  |  |
| R5-222253 | WP UE Conformance - Power Class 2 for EN-DC with xLTE band + yNR DL with 1LTE+1(TDD) NR UL band (x= 2, 3, 4, y=1; x=1, 2, y=2) | Ericsson | available |  |  |
| R5-222254 | SR UE Conformance - Power Class 2 for EN-DC with xLTE band + yNR DL with 1LTE+1(TDD) NR UL band (x= 2, 3, 4, y=1; x=1, 2, y=2) | Ericsson | available |  |  |
| R5-222255 | WP UE Conformance Test Aspects - Rel-16 Private Network Support for NG-RAN | Qualcomm CDMA Technologies | available |  |  |
| R5-222256 | SR UE Conformance Test Aspects - Rel-16 Private Network Support for NG-RAN | Qualcomm CDMA Technologies | available |  |  |
| R5-222257 | Discussion paper for Rel-15 NR Tests Applicability on SNPN Only UE | Qualcomm CDMA Technologies | revised |  | R5-223351 |
| R5-222258 | Addition of SNPN only applicability | Qualcomm CDMA Technologies | withdrawn |  |  |
| R5-222259 | Addition of applicable R15 tests for SNPN-only UE in a new clause | Qualcomm CDMA Technologies | withdrawn |  |  |
| R5-222260 | Call Flow for addition of video to a voice call | Qualcomm CDMA Technologies | noted |  |  |
| R5-222261 | Editorial update of NR RRC TC 8.1.1.3.7b | Qualcomm CDMA Technologies | agreed |  |  |
| R5-222262 | Editorial update of NR RRC TC 8.1.3.1.20 | Qualcomm CDMA Technologies | agreed |  |  |
| R5-222263 | Addition of new NR5G NPN TC 6.5.2.3 | Qualcomm CDMA Technologies | revised |  | R5-223379 |
| R5-222264 | Addition of new NR5G NPN TC 6.5.2.5 | Qualcomm CDMA Technologies | withdrawn |  |  |
| R5-222265 | Resolving test frequency for n53 10 Mhz CBW | Qualcomm CDMA Technologies | revised |  | R5-223416 |
| R5-222266 | Addition of new PICS for 3GPP PS Data off | Qualcomm CDMA Technologies | agreed |  |  |
| R5-222267 | Correction to NR5GC testcase 11.6.x | Qualcomm CDMA Technologies, Anritsu Ltd, Keysight UK | revised |  | R5-223440 |
| R5-222268 | Correction to IMS 5GS TC 8.34, 8.35 and 8.36 | Qualcomm CDMA Technologies, Keysight Technologies UK | revised |  | R5-223463 |
| R5-222269 | Corrections to A.21 | Qualcomm CDMA Technologies, Keysight Technologies UK | agreed |  |  |
| R5-222270 | Correction to R16 eNS TC 9.1.10.3 | Qualcomm CDMA Technologies, Keysight Technologies UK, Anritsu Ltd | revised |  | R5-223429 |
| R5-222271 | Correction to R16 eNS TC 9.1.10.1 | Qualcomm CDMA Technologies | agreed |  |  |
| R5-222272 | Correction to EN-DC RRC TC 8.2.3.17.1 | Qualcomm CDMA Technologies, Anritsu Ltd | agreed |  |  |
| R5-222273 | Editorial update of NR TC 10.1.3.2 | Qualcomm CDMA Technologies | agreed |  |  |
| R5-222274 | Correction to IMS 5GS TC 8.2 | Qualcomm CDMA Technologies | withdrawn |  |  |
| R5-222275 | Correction to IMS 5GS TC 10.9 | Qualcomm CDMA Technologies, Anritsu Ltd, MediaTek | revised |  | R5-223464 |
| R5-222276 | Correction to IMS 5GS TC 10.10 | Qualcomm CDMA Technologies, Anritsu Ltd | revised |  | R5-223465 |
| R5-222277 | Editorial update of NR TC 11.1.1 | Qualcomm CDMA Technologies | agreed |  |  |
| R5-222278 | Correction to NR MDT test case 8.1.6.1.4.8 | Qualcomm CDMA Technologies, Keysight Technologies UK | revised |  | R5-223385 |
| R5-222279 | Correction to NR5GC testcase 11.1.2 | Qualcomm CDMA Technologies, Rohde&Schwarz, Anritsu Ltd, Keysight | revised |  | R5-223430 |
| R5-222280 | WP UE Conformance Test Aspects for NR RF Requirement Enhancements for FR2 | Nokia, Nokia Shanghai Bell | available |  |  |
| R5-222281 | SR UE Conformance Test Aspects for NR RF Requirement Enhancements for FR2 | Nokia, Nokia Shanghai Bell | available |  |  |
| R5-222282 | PRD21 CDS: PC3 for DC\_1A-20A\_n8A, DC\_1A-28A\_n5A, DC\_3A-7A\_n5A, DC\_3A-8A\_n28A, DC\_7A-8A\_n3A, DC\_7A-20A\_n8A, DC\_7A-28A\_n5A | Nokia, Nokia Shanghai Bell | available |  |  |
| R5-222283 | Introduction of test frequencies for Rel-16 inter-band EN-DC three band combinations within FR1 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222284 | Introduction of Rel-16 inter-band EN-DC three band configurations within FR1 for physical layer baseline implementation capabilities | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222285 | Introduction of Output power requirements for DC\_1A\_n8A, DC\_7A\_n8A and DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | revised |  | R5-223658 |
| R5-222286 | Introduction of Allowed maximum configured output power relaxation for DC\_1\_n5, DC\_1\_n8, DC\_3\_n5, DC\_7\_n5, DC\_7\_n8 and DC\_8\_n28 | Nokia, Nokia Shanghai Bell | revised |  | R5-223659 |
| R5-222287 | Introduction of General Spurious emissions requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223660 |
| R5-222288 | Introduction of Spurious emissions band UE co-existence limits Rel-16 for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223661 |
| R5-222289 | Introduction of Spurious emissions band UE co-existence Test description for DC\_1A\_n8A, DC\_7A\_n5A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223662 |
| R5-222290 | Introduction of Spurious emissions band UE co-existence Rel-16 Test requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223663 |
| R5-222291 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223682 |
| R5-222292 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223683 |
| R5-222293 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | revised |  | R5-223684 |
| R5-222294 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223685 |
| R5-222295 | Introduction of reference sensitivity test point analysis for DC\_1A-20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223686 |
| R5-222296 | Introduction of reference sensitivity test point analysis for DC\_1A-28A\_n5A | Nokia, Nokia Shanghai Bell | revised |  | R5-223687 |
| R5-222297 | Introduction of reference sensitivity test point analysis for DC\_3A-7A\_n5A | Nokia, Nokia Shanghai Bell | revised |  | R5-223688 |
| R5-222298 | Introduction of reference sensitivity test point analysis for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | revised |  | R5-223689 |
| R5-222299 | Introduction of reference sensitivity test point analysis for DC\_7A-8A\_n3A | Nokia, Nokia Shanghai Bell | revised |  | R5-223690 |
| R5-222300 | Introduction of reference sensitivity test point analysis for DC\_7A-20A\_n8A | Nokia, Nokia Shanghai Bell | revised |  | R5-223691 |
| R5-222301 | Introduction of reference sensitivity test point analysis for DC\_7A-28A\_n5A | Nokia, Nokia Shanghai Bell | revised |  | R5-223692 |
| R5-222302 | Introduction of DC\_1A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223676 |
| R5-222303 | Introduction of DC\_3A-7A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223677 |
| R5-222304 | Introduction of DC\_7A-8A\_n3A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223678 |
| R5-222305 | Introduction of DC\_7A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223679 |
| R5-222306 | Introduction of DC\_7A-28A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223680 |
| R5-222307 | Introduction of test frequencies for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223755 |
| R5-222308 | Introduction of NR-DC in FR1 for test setup diagrams | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222309 | Introduction of configuration DC\_n48A-n70A for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223769 |
| R5-222310 | Introduction of Transmitter power for NR-DC | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222311 | Introduction of UE maximum output power reduction for NR-DC | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222312 | Introduction of UE additional maximum output power reduction for NR-DC | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222313 | Introduction of Configured output power for inter-band NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222314 | Introduction of Output power dynamics and Minimum output power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223756 |
| R5-222315 | Introduction of Transmit OFF power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223757 |
| R5-222316 | Introduction of Transmit ON/OFF time mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223758 |
| R5-222317 | Introduction of Transmit signal quality and Frequency error for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223759 |
| R5-222318 | Introduction of Error Vector Magnitude for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223760 |
| R5-222319 | Introduction of Carrier leakage for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223761 |
| R5-222320 | Introduction of In-band emissions for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223762 |
| R5-222321 | Introduction of Output RF spectrum emissions and Occupied bandwidth for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223763 |
| R5-222322 | Introduction of Out of band emission Spectrum emission mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223764 |
| R5-222323 | Introduction of Adjacent channel leakage ratio for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223765 |
| R5-222324 | Introduction of Spurious emission for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223766 |
| R5-222325 | Introduction of Transmit intermodulation for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | revised |  | R5-223767 |
| R5-222326 | Introduction of NR-DC references to transmitter test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223768 |
| R5-222327 | Editorial correction for references to Table 5.5A.3-1 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| R5-222328 | Editorial reference correction to NR SA FR2 cell re-selection test requirements | Nokia, Nokia Shanghai Bell | revised |  | R5-223859 |
| R5-222329 | Correction of test frequencies for CA\_n66(2A) BCS1 and BCS2 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222330 | Editorial correction of test frequencies for CA\_n77(2A) | Keysight Technologies UK Ltd | withdrawn |  |  |
| R5-222331 | FR1 - 6.5A.3.2 - Spurious for co-existence - correction for CA\_n41-n79 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222332 | Test procedure correction in FR1 CA test case 7.6A.4.3 | Keysight Technologies UK Ltd | revised |  | R5-223656 |
| R5-222333 | Test procedure correction in FR1 CA test case 7.6A.4.2 | Keysight Technologies UK Ltd | revised |  | R5-223700 |
| R5-222334 | Reference correction in test case 6.5C.4 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222335 | Correction of min value for A-MPR - FR1 - NS\_44 - Test ID 17 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222336 | Replace n79C by n77C in test case 6.2A.2.1 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222337 | Editorial correction in Test IDs in FR1 test case 7.5A.2 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222338 | Corrections for n50 and n79 in FR1 test case 7.3.2 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222339 | Editorial corrections for FR1 in annex F.1.2 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222340 | Discussion on TT and testability proposal for FR2 EVM | Keysight Technologies UK Ltd | revised |  | R5-223620 |
| R5-222341 | FR2 SA EVM test case update based on TT analysis | Keysight Technologies UK Ltd | withdrawn |  |  |
| R5-222342 | Beam peak search - re-positioning formula correction | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222343 | FR2 NSA EVM test case editor notes update | Keysight Technologies UK Ltd | withdrawn |  |  |
| R5-222344 | 6.6B.4 Beam Correspondence test case editor note update | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222345 | MU and TT definition and clean up in 38.521-3 annex F | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222346 | Corrections to TC 7.21 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222347 | New WID on Enhanced Industrial Internet of Things (IoT) and ultra-reliable and low latency communication (URLLC) support for NR | Nokia, Nokia Shanghai Bell | revised |  | R5-223314 |
| R5-222348 | Update of test channel BWs for n2 due to introduction of CWBs 25 30 and 40 MHz | Ericsson | withdrawn |  |  |
| R5-222349 | Update of test channel BWs for n5 due to introduction of CWB 25 MHz | Ericsson | revised |  | R5-223642 |
| R5-222350 | Update of reference sense test case 7.3.2 for n41 and CWB 70 MHz | Ericsson | revised |  | R5-223731 |
| R5-222351 | Update of reference sense test case 7.3.2 for n48 and CWBs 30 and 70 MHz | Ericsson | agreed |  |  |
| R5-222352 | Update of reference sense test case 7.3.2 for n2 and CWBs 25 30 and 40 MHz | Ericsson | agreed |  |  |
| R5-222353 | Update of reference sense test case 7.3.2 for n5 and CWB 25 MHz | Ericsson | agreed |  |  |
| R5-222354 | Introducing CBW 70 MHz for Default Downlink Power levels in Annex C | Ericsson | agreed |  |  |
| R5-222355 | Introducing CBW 30 MHz for Characteristics of the Interfering Signaling in Annex D | Ericsson | agreed |  |  |
| R5-222356 | Introducing CBW 70 MHz for Characteristics of the Interfering Signaling in Annex D | Ericsson | agreed |  |  |
| R5-222357 | PRD21 CDS: PC3 for n2 and CBW extension for 25, 30 and 40 MHz | Ericsson | available |  |  |
| R5-222358 | PRD21 CDS: PC3 for n5 and CBW extension for 25 MHz | Ericsson | available |  |  |
| R5-222359 | PRD21 CDS: PC3 for n41 and CBW extension for 70 MHz | Ericsson | withdrawn |  |  |
| R5-222360 | PRD21 CDS: PC3 for n48 and CBW extensions for 30 and 70 MHz | Ericsson | withdrawn |  |  |
| R5-222361 | MCC TF160 Status Report | MCC TF160 | revised |  | R5-223308 |
| R5-222362 | Correction to DRX adaptation test case 7.1.1.12.3 | MCC TF160 | agreed |  |  |
| R5-222363 | Correction of test case 6.1.3.1 | MCC TF160 | agreed |  |  |
| R5-222364 | Correction of test case 6.1.4.1 | MCC TF160 | agreed |  |  |
| R5-222365 | Correction of test case 6.1.4.2 | MCC TF160 | agreed |  |  |
| R5-222366 | Correction of test case 6.1.5.1 | MCC TF160 | agreed |  |  |
| R5-222367 | Correction of test case 6.1.5.2 | MCC TF160 | agreed |  |  |
| R5-222368 | Correction of test case 6.2.18 | MCC TF160 | agreed |  |  |
| R5-222369 | Correction of test case 6.2.19 | MCC TF160 | agreed |  |  |
| R5-222370 | Correction of Emergency Alert Test Cases in clause 6.3 | MCC TF160 | agreed |  |  |
| R5-222371 | Correction of MCVideo Test Cases clause 6.7 | MCC TF160 | agreed |  |  |
| R5-222372 | Correction of test case 6.1.4.1 | MCC TF160 | agreed |  |  |
| R5-222373 | Correction of test case 6.1.4.2 | MCC TF160 | agreed |  |  |
| R5-222374 | Correction of Video Pull Test Cases in clause 6.4 | MCC TF160 | agreed |  |  |
| R5-222375 | Correction of Video Push Test Cases in clause 6.5 | MCC TF160 | agreed |  |  |
| R5-222376 | Correction to Inter-System MDT test case 8.1.6.3.3.3 | MCC TF160 | agreed |  |  |
| R5-222377 | NR Positioning: addition of posSIBs support | MCC TF160 | agreed |  |  |
| R5-222378 | 5G V2X: Test Model updates | MCC TF160 | revised |  | R5-223378 |
| R5-222379 | Editorial updates to SIBs | MCC TF160 | revised |  | R5-223414 |
| R5-222380 | Updating RRCReconfiguration and RadioBearerConfig for NR-DC and NE-DC | MCC TF160 | agreed |  |  |
| R5-222381 | Update UE location information | MCC TF160 | agreed |  |  |
| R5-222382 | Correction to NR PDCP test case 7.1.3.5.2 | MCC TF160 | agreed |  |  |
| R5-222383 | Corrections to NR IIoT PDCP test cases 7.1.3.5.6.x | MCC TF160 | revised |  | R5-223421 |
| R5-222384 | Update to UE Radio Capability Id field in RACS test cases | MCC TF160 | agreed |  |  |
| R5-222385 | 5G Rel-15: Test Models updates | MCC TF160 | revised |  | R5-223443 |
| R5-222386 | Updates to LTE audit TC 8.5.4.1 | MCC TF160 | agreed |  |  |
| R5-222387 | Inclusive language review for TS 36.523-3 | MCC TF160 | revised |  | R5-223330 |
| R5-222388 | Routine maintenance for TS 36.523-3 | MCC TF160 | agreed |  |  |
| R5-222389 | Checking the absence of geolocation information in INVITE request | MCC TF160 | withdrawn |  | - |
| R5-222390 | Correction of A.17 | MCC TF160 | withdrawn |  |  |
| R5-222391 | Editorial updates to title of several generic test procedures | MCC TF160 | withdrawn |  |  |
| R5-222392 | Addition of clause 5.5.3.15 - Conference-info | MCC TF160 | agreed |  |  |
| R5-222393 | Correction of clause 5.3 - Generic test procedures for UE MCS operation | MCC TF160 | revised |  | R5-223477 |
| R5-222394 | Correction of clause 5.5.2.14 - SIP SUBSCRIBE | MCC TF160 | agreed |  |  |
| R5-222395 | Correction of clause 5.5.3.1 - SDP Message | MCC TF160 | withdrawn |  |  |
| R5-222396 | Correction of clause 5.5.3.2 - MCS Info Lists | MCC TF160 | agreed |  |  |
| R5-222397 | Correction of clause 5.5.3.6 - SIMPLE-FILTER | MCC TF160 | revised |  | R5-223478 |
| R5-222398 | Correction of clause 5.5.8 - Default MCS configuration management messages and other information elements | MCC TF160 | agreed |  |  |
| R5-222399 | Corrections of clause 5.5.3.1 - SDP message | MCC TF160 | agreed |  |  |
| R5-222400 | Extensions of clause 2 - References | MCC TF160 | agreed |  |  |
| R5-222401 | Common corrections of MCPTT private call test cases | MCC TF160 | agreed |  |  |
| R5-222402 | Correction of MCPTT Test Case 5.3 | MCC TF160 | agreed |  |  |
| R5-222403 | Misc. updates to MC client test cases | MCC TF160 | withdrawn |  |  |
| R5-222404 | Correction of Group Call Test Cases in clause 6.1 | MCC TF160 | agreed |  |  |
| R5-222405 | Correction of Private Call Test Cases in clause 6.2 | MCC TF160 | revised |  | R5-223479 |
| R5-222406 | Corrections to A.2.3 | ROHDE & SCHWARZ | revised |  | R5-223453 |
| R5-222407 | Corrections to A.3.1 | ROHDE & SCHWARZ | revised |  | R5-223454 |
| R5-222408 | Corrections to TC 10.11 | ROHDE & SCHWARZ | revised |  | R5-223466 |
| R5-222409 | Update IE SIB3 | Ericsson | withdrawn |  |  |
| R5-222410 | Correction of A.17 - Generic test procedure for putting a MTSI speech call to hold or to resume the call from the UE / 5GS | MCC TF160 | agreed |  |  |
| R5-222411 | Editorial updates to title of several generic test procedures | MCC TF160 | agreed |  |  |
| R5-222412 | Corrections to A.2.1 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222413 | Correction to 5GS IMS Test Case 10.2 | Anritsu Ltd, Qualcomm, Rohde and Schwarz | revised |  | R5-223467 |
| R5-222414 | Correction to IMS testcase 10.6 | ANRITSU LTD, Rohde & Schwarz | revised |  | R5-223468 |
| R5-222415 | Correction to 5GS IMS test case 7.25 | ANRITSU LTD | withdrawn |  |  |
| R5-222416 | Correction to LTE PSM testcases | ANRITSU LTD | agreed |  |  |
| R5-222417 | Editorial Correction to NR Test case 8.1.4.4.3 | ANRITSU LTD | revised |  | R5-223340 |
| R5-222418 | Correction to NR5GC testcase 8.1.5.9.1 | Qualcomm Incorporated, MCC TF 160 | agreed |  |  |
| R5-222419 | WP UE Conformance Test Aspects- SRVCC\_NR\_to\_UMTS | China Unicom | reserved |  |  |
| R5-222420 | Update of R17 Reference Sensitivity test point analysis for FR1 NR CA | China Telecommunications | agreed |  |  |
| R5-222421 | Addition of 6.5E.1 Occupied bandwidth for V2X | TTA | agreed |  |  |
| R5-222422 | Addition of 6.5E.2 Out of band emission for V2X | TTA | agreed |  |  |
| R5-222423 | Editorial correction for 6.3B.8 Power control for EN-DC | TTA | revised |  | R5-223834 |
| R5-222424 | Correction to applicability for 6.2D.1.1 and 6.2D.1.2 of 38.521-2 | TTA | revised |  | R5-223842 |
| R5-222425 | Corrections to TC 7.25 precondition | Google Inc. | revised |  | R5-223349 |
| R5-222426 | UL MIMO MOP requirements for PC1.5 in n77 and n78 | Google Inc., Verizon | revised |  | R5-223770 |
| R5-222427 | Update to IMS emergency test case 19.1.2 | MCC TF160 | agreed |  |  |
| R5-222428 | Corrections in message exceptions and test points for FR1 test case 6.3A.4.1.1 | Keysight Technologies UK Ltd | revised |  | R5-223697 |
| R5-222429 | Test point analysis update for FR1 test case 6.3A.4.1.1 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222430 | Update test case 11.1.1a | Ericsson | agreed |  |  |
| R5-222431 | Correction to message contents for CQI reporting | Rohde & Schwarz | agreed |  |  |
| R5-222432 | Addition of message content exceptions for Demod and CSI tests | Rohde & Schwarz | withdrawn |  |  |
| R5-222433 | Correction to RB allocation for CEMode B TCs | Rohde & Schwarz | agreed |  |  |
| R5-222434 | Addition of missing RMC R.86 TDD | Rohde & Schwarz | agreed |  |  |
| R5-222435 | Discussion on updates required in Test points analysis for MPR, SEM and ACLR | Keysight technologies UK Ltd | revised |  | R5-223637 |
| R5-222436 | Discussion on Rel-15 Common Uplink Configuration for PC2, PC3 and PC4 | Keysight technologies UK Ltd | noted |  |  |
| R5-222437 | Rel-15 MPR updates | Keysight technologies UK Ltd | revised |  | R5-223814 |
| R5-222438 | Clarifications on Common Uplink Configuration updates | Keysight technologies UK Ltd | revised |  | R5-223835 |
| R5-222439 | Discussion on FR2 MPR enhancements | Keysight technologies UK Ltd | revised |  | R5-223636 |
| R5-222440 | Discussion on Rel-16 Common Uplink Configuration for PC2, PC3 and PC4 | Keysight technologies UK Ltd | revised |  | R5-223634 |
| R5-222441 | LS on ModifiedMPRbehaviour clarification for different power classes | Keysight technologies UK Ltd | revised |  | R5-223635 |
| R5-222442 | Updating TP analysis for MPR, SEM and ACLR for FR2 | Keysight technologies UK Ltd | revised |  | R5-223867 |
| R5-222443 | Common Uplink Configuration updates for Rel-15 FR2 | Keysight technologies UK Ltd | revised |  | R5-223815 |
| R5-222444 | Common Uplink Configuration updates for NR RF requirement enhancements for FR2 | Keysight technologies UK Ltd | revised |  | R5-223749 |
| R5-222445 | Correction to NR testcase 8.1.4.4.4 | ROHDE & SCHWARZ, Anritsu Ltd | revised |  | R5-223358 |
| R5-222446 | Correction to NR testcase 8.1.4.4.2 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222447 | Correction to NR5GC testcase 7.1.3.4.1 | ROHDE & SCHWARZ | revised |  | R5-223422 |
| R5-222448 | Editorial correction of REFSENS test case 7.3.2 | Ericsson | agreed |  |  |
| R5-222449 | Correction of REFSENS test case for n71 and CBW 10 15 and 30 MHz | Ericsson | withdrawn |  |  |
| R5-222450 | Correction of REFSENS test case for n66 and CBW 25 and 30 MHz | Ericsson | agreed |  |  |
| R5-222451 | New WID - UE Conformance - enhancement of RAN slicing for NR | CMCC | revised |  | R5-223315 |
| R5-222452 | Revised WID - UE Conformance - Enhancement of data collection for SON and MDT in NR SA and MR-DC | CMCC | revised |  | R5-223482 |
| R5-222453 | SR - Rel-17 eNS\_Ph2-UEConTest after RAN5#95-e | CMCC, CATT | available |  |  |
| R5-222454 | WP - Rel-17 eNS\_Ph2-UEConTest after RAN5#95-e | CMCC, CATT | available |  |  |
| R5-222455 | SR - Rel-17 NR\_ENDC\_SON\_MDT\_enh-UEConTest after RAN5#95-e | CMCC | available |  |  |
| R5-222456 | WP - Rel-17 NR\_ENDC\_SON\_MDT\_enh-UEConTest after RAN5#95-e | CMCC | available |  |  |
| R5-222457 | SR - NR\_SON\_MDT-UEConTest after RAN5#95-e | CMCC, Ericsson | reserved |  |  |
| R5-222458 | WP - NR\_SON\_MDT-UEConTest after RAN5#95-e | CMCC, Ericsson | reserved |  |  |
| R5-222459 | Addition of UE capability for NSSRG | CMCC | agreed |  |  |
| R5-222460 | Updates to REGISTRATION ACCEPT message | CMCC | agreed |  |  |
| R5-222461 | Updates to Configuration Update Command message | CMCC | agreed |  |  |
| R5-222462 | Updates to Registration Reject message | CMCC | agreed |  |  |
| R5-222463 | Updates to De-registration Request message | CMCC | agreed |  |  |
| R5-222464 | Update of Combinations of system information blocks for NE-DC | CMCC | agreed |  |  |
| R5-222465 | Update of applicability statement for test cases for NE-DC RRC | CMCC | revised |  | R5-223348 |
| R5-222466 | Update of test case 8.2.3.6.2 for Intra-frequency measurements Event A3 in NE-DC | CMCC | revised |  | R5-223345 |
| R5-222467 | Update of test case 8.2.3.6.2a for Inter-frequency measurements Event A3 in NE-DC | CMCC | revised |  | R5-223346 |
| R5-222468 | Update of test case 8.2.3.6.2b for Inter-band measurements Event A3 in NE-DC | CMCC | revised |  | R5-223347 |
| R5-222469 | Update of test case 8.2.1.1.2 for UE capability transfer in NE-DC | CMCC | revised |  | R5-223344 |
| R5-222470 | Update of test case 8.2.2.4.3 for SCG DRB in NE-DC | CMCC, MCC TF160 | agreed |  |  |
| R5-222471 | Addition of new NR5GC CAG testcase 6.5.2.6 | ROHDE & SCHWARZ | revised |  | R5-223380 |
| R5-222472 | FR2 MPR enhancements | Keysight technologies UK Ltd | withdrawn |  |  |
| R5-222473 | Addtion Delta TIB,c for FR1 EN-DC | KDDI Corporation | agreed |  |  |
| R5-222474 | Addtion Minimum Conformance Requests of REFSENS for FR1 EN-DC | KDDI Corporation | revised |  | R5-223681 |
| R5-222475 | Introduction of Reference Sensitivity Test for FR1 EN-DC | KDDI Corporation | withdrawn |  |  |
| R5-222476 | Addtion of refsence sensitivity test point analysis for FR1 EN-DC | KDDI Corporation | withdrawn |  |  |
| R5-222477 | MU discussion on 40 cm Quiet Zone | Anritsu | revised |  | R5-223613 |
| R5-222478 | Update FR2 TRx MU in 38.521-2 | Anritsu | revised |  | R5-223617 |
| R5-222479 | Update FR2 TRx MU in 38.903 | Anritsu | revised |  | R5-223618 |
| R5-222480 | Correction to time mask test cases | Anritsu | revised |  | R5-223805 |
| R5-222481 | Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2 | Anritsu | agreed |  |  |
| R5-222482 | Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2 | Anritsu | agreed |  |  |
| R5-222483 | Editorial correction in Annex | Anritsu | revised |  | R5-223824 |
| R5-222484 | Editorial correction in 6.2B.4.1.3 | Anritsu | agreed |  |  |
| R5-222485 | Correction to RB allocation and test requirement in 6.2.3 | Anritsu | revised |  | R5-223806 |
| R5-222486 | Correction about test configuration in 6.5B.3.3.2 | Anritsu | agreed |  |  |
| R5-222487 | Correction to title of 7.6B.2.4 and editorial correction for Rx test cases | Anritsu | agreed |  |  |
| R5-222488 | Editorial correction for Tx test cases | Anritsu | agreed |  |  |
| R5-222489 | Addition of new test case 5.2A.3.2 | Anritsu | withdrawn |  |  |
| R5-222490 | Correction to test time in 6.1.1.7 | Anritsu | agreed |  |  |
| R5-222491 | Editorial correction in 6.1.2.5 | Anritsu | agreed |  |  |
| R5-222492 | Correction to physical cell identity in 6.6.3.2 and 6.6.3.3 | Anritsu | agreed |  |  |
| R5-222493 | Correction to test procedure in 8.2.1.2 | Anritsu | agreed |  |  |
| R5-222494 | Correction to test procedure in 8.5.1.1 | Anritsu | agreed |  |  |
| R5-222495 | Correction to DCI format in 6.4.2.1 | Anritsu | revised |  | R5-223807 |
| R5-222496 | Correction to DCI format in singnal quality TCs | Anritsu | revised |  | R5-223816 |
| R5-222497 | Correction to PDCCH parameters in 5.2.2.1.4 and 5.2.2.2.4 | Anritsu | revised |  | R5-223714 |
| R5-222498 | Correction to k0 value description | Anritsu | agreed |  |  |
| R5-222499 | Correction to coreset RB in 5.3.2.1.3 and 5.3.3.1.3 | Anritsu | agreed |  |  |
| R5-222500 | Correction to CSI-Report periodicity and offset in 6.2A.3.1 | Anritsu | revised |  | R5-223871 |
| R5-222501 | Correction to the referecne of test frequency | Anritsu | revised |  | R5-223837 |
| R5-222502 | Addition of test frequency for performance test cases | Anritsu | agreed |  |  |
| R5-222503 | Addition of locationAndBandwidth for BW 45 MHz | Anritsu | agreed |  |  |
| R5-222504 | Correction to CSI-RS for tracking in 5.6.1.2 | Anritsu | revised |  | R5-223854 |
| R5-222505 | Correction to test parameters in 5.6.1.x and 5.6.2.x | Anritsu | agreed |  |  |
| R5-222506 | Correction to Active UL BWP-2 Configuration in 4.5.6.1.1 and 6.5.6.1.2 | Anritsu | revised |  | R5-223874 |
| R5-222507 | Correction to DRX offset setting in 6.6.1.7 | Anritsu | agreed |  |  |
| R5-222508 | Correction to DRX offset setting in 6.6.3.3 | Anritsu | agreed |  |  |
| R5-222509 | Correction to DRX offset setting in 8.4.2.x | Anritsu | agreed |  |  |
| R5-222510 | New WID on UE Conformance – UE power saving enhancements for NR | MediaTek Inc. | revised |  | R5-223316 |
| R5-222511 | Correction to NR PDCP test case 7.1.3.4.1 | Keysight Technologies UK | agreed |  |  |
| R5-222512 | Correction to generic procedure 4.9.28 | Keysight Technologies UK, Rohde & Schwarz | agreed |  |  |
| R5-222513 | Editorial update RRCReconfiguration | Ericsson | agreed |  |  |
| R5-222514 | TT analysis for RRM test case 5.7.4.1 and 5.7.4.2 | ROHDE & SCHWARZ | revised |  | R5-223865 |
| R5-222515 | Completing 5.7.4.1 including TT analysis | ROHDE & SCHWARZ | revised |  | R5-223615 |
| R5-222516 | Completing 5.7.4.2 including TT analysis | ROHDE & SCHWARZ | revised |  | R5-223855 |
| R5-222517 | Add minimum requirements for 7.7.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222518 | Completing 7.7.4.1 including TT analysis | ROHDE & SCHWARZ | revised |  | R5-223616 |
| R5-222519 | Completing 7.7.4.2 including TT analysis | ROHDE & SCHWARZ | revised |  | R5-223860 |
| R5-222520 | Annex F for L1-RSRP meas accuracy test cases | ROHDE & SCHWARZ | revised |  | R5-223863 |
| R5-222521 | Addition of QZSS to the updated GNSS scenarios | ROHDE & SCHWARZ | agreed |  |  |
| R5-222522 | Remove incorrect references - Chapter 4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222523 | Remove incorrect references - Chapter 5 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222524 | Remove incorrect references - Chapter 6 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222525 | Remove incorrect references - Chapter 7 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222526 | Remove incorrect references - Chapter 8 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222527 | Corrections to 6.6.3.1 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222528 | Corrections to 8.4.1.2 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222529 | Modification to the asynchronous / synchronous cells conditions | ROHDE & SCHWARZ | agreed |  |  |
| R5-222530 | Corrections to 4.7.5.1 | ROHDE & SCHWARZ | revised |  | R5-223850 |
| R5-222531 | Clean-up asynchronous / synchronous cells conditions for IRAT | ROHDE & SCHWARZ | agreed |  |  |
| R5-222532 | Editorial correction to H.3.4-5 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222533 | Corrections to 5.6.1.3 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222534 | Corrections to 5.6.1.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222535 | Correction to H.3.4-7 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222536 | Editorial correction 4.5.5.x | ROHDE & SCHWARZ | agreed |  |  |
| R5-222537 | Corrections to Table 7.3.1-12G | ROHDE & SCHWARZ | agreed |  |  |
| R5-222538 | Corrections to 4.5.5.1 | ROHDE & SCHWARZ | revised |  | R5-223851 |
| R5-222539 | Corrections to 4.5.5.2 | ROHDE & SCHWARZ | revised |  | R5-223852 |
| R5-222540 | Correction of REFSENS test case for n66 and CBW 40 MHz | Ericsson | agreed |  |  |
| R5-222541 | Clarification of UL RMC in FR1 PMI test cases | ROHDE & SCHWARZ | revised |  | R5-223838 |
| R5-222542 | Editorial correction in Refsens CA test case | ROHDE & SCHWARZ | agreed |  |  |
| R5-222543 | Correction of Refsens CA test case | ROHDE & SCHWARZ | agreed |  |  |
| R5-222544 | Update of A-MPR and A-SE test cases | ROHDE & SCHWARZ | agreed |  |  |
| R5-222545 | Clarification of BCS in test configuration of CA test cases | ROHDE & SCHWARZ | revised |  | R5-223813 |
| R5-222546 | Update of FR2 test cases | ROHDE & SCHWARZ | revised |  | R5-223840 |
| R5-222547 | Correction to test frequency for n53 | ROHDE & SCHWARZ | revised |  | R5-223792 |
| R5-222548 | On LTE-NR coexistence performance test cases | ROHDE & SCHWARZ | revised |  | R5-223627 |
| R5-222549 | Update of LTE-NR coexistence test cases | ROHDE & SCHWARZ | revised |  | R5-223839 |
| R5-222550 | Correction to NR5GC CAG testcase 6.5.2.1 | ROHDE & SCHWARZ, MediaTek | revised |  | R5-223381 |
| R5-222551 | Correction to IMS 5GS TC 7.22 and 7.23 | Qualcomm Incorporated | revised |  | R5-223339 |
| R5-222552 | Correction of TRP Measurement Grids | Keysight Technologies UK Ltd | revised |  | R5-223825 |
| R5-222553 | On QoQZ for 40cm QZ | Keysight Technologies UK Ltd | revised |  | R5-223614 |
| R5-222554 | On Permitted Methodologies and Applicability | Keysight Technologies UK Ltd | noted |  |  |
| R5-222555 | CR on Permitted Methodologies and Applicability | Keysight Technologies UK Ltd | revised |  | R5-223795 |
| R5-222556 | CR on applicability per permitted test method | Keysight Technologies UK Ltd | revised |  | R5-223826 |
| R5-222557 | On NF Methodologies | Keysight Technologies UK Ltd | noted |  |  |
| R5-222558 | New WID on UE Conformance - Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC) | Apple Portugal, ROHDE & SCHWARZ, Vivo | revised |  | R5-223317 |
| R5-222559 | Introduction of EN-DC FR2 SRS-RSRP measurement in non-DRX test case 5.6.4.1 | Qualcomm Austria RFFE GmbH | revised |  | R5-223710 |
| R5-222560 | Introduction of EN-DC FR2 SRS-RSRP measurement accuracy test case 5.7.5.1 | Qualcomm Austria RFFE GmbH | revised |  | R5-223711 |
| R5-222561 | Addition of new CADC MOP TC | Intertek | revised |  | R5-223664 |
| R5-222562 | Addition of applicability for CADC MOP TC | Intertek | agreed |  |  |
| R5-222563 | New WID on UE Conformance – NR small data transmissions in INACTIVE state | Qualcomm CDMA Technologies | revised |  | R5-223318 |
| R5-222564 | Updates to A.7.1.1.1 and A.9.1.1.1 test points | Qualcomm Austria RFFE GmbH | agreed |  |  |
| R5-222565 | Update IE P-Max | Ericsson | agreed |  |  |
| R5-222566 | Editorial update IE FreqBandList | Ericsson | agreed |  |  |
| R5-222567 | Editorial update IE CellGroupConfig | Ericsson | agreed |  |  |
| R5-222568 | Editorial update IE CellGroupId | Ericsson | agreed |  |  |
| R5-222569 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | revised |  | R5-223794 |
| R5-222570 | Editorial update IE PDCCH-ConfigCommon | Ericsson | agreed |  |  |
| R5-222571 | Addition of reference sensitivity test for several CA combinations | WE Certification Oy, DISH Network | agreed |  |  |
| R5-222572 | Addition of CA configuration for CA\_n29A-n71A | WE Certification Oy, DISH Network | agreed |  |  |
| R5-222573 | Addition of CA\_n29A-n71A applicability | WE Certification Oy, DISH Network | agreed |  |  |
| R5-222574 | Addition of test analysis for several CA combinations | WE Certification Oy, DISH Network | agreed |  |  |
| R5-222575 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | revised |  | R5-223868 |
| R5-222576 | WP UE Conformance Test Aspects - NR performance requirement enhancement | QUALCOMM Europe Inc. - Italy | available |  |  |
| R5-222577 | WP UE Conformance Test Aspects - Rel -16 for CLI handling for NR | QUALCOMM Europe Inc. - Italy | available |  |  |
| R5-222578 | SR UE Conformance Test Aspects - Rel -16 for CLI handling for NR | QUALCOMM Europe Inc. - Italy | available |  |  |
| R5-222579 | WP - UE Conformance Test Aspects for NR-based Access to Unlicensed Spectrum | QUALCOMM Europe Inc. - Italy | available |  |  |
| R5-222580 | SR - UE Conformance Test Aspects for NR-based Access to Unlicensed Spectrum | QUALCOMM Europe Inc. - Italy | available |  |  |
| R5-222581 | Applicability update for NR perf enh WI test cases | QUALCOMM Europe Inc. - Italy | revised |  | R5-223720 |
| R5-222582 | Update to FR1 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | revised |  | R5-223715 |
| R5-222583 | Update to FR1 CA power imbalance test cases | QUALCOMM Europe Inc. - Italy | revised |  | R5-223716 |
| R5-222584 | Update to FR2 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | revised |  | R5-223718 |
| R5-222585 | Update to FR1 CA SDR test case | QUALCOMM Europe Inc. - Italy | agreed |  |  |
| R5-222586 | Update to FR1 CA CQI reporting test case | QUALCOMM Europe Inc. - Italy | revised |  | R5-223717 |
| R5-222587 | Introduction of FR2 CA SDR test case | QUALCOMM Europe Inc. - Italy | revised |  | R5-223719 |
| R5-222588 | Introduction of FR2 SDR test case | QUALCOMM Europe Inc. - Italy | revised |  | R5-223841 |
| R5-222589 | Discussion on fading crest factor | QUALCOMM Europe Inc. - Italy | noted |  |  |
| R5-222590 | FR2 demod testability update | QUALCOMM Europe Inc. - Italy | withdrawn |  |  |
| R5-222591 | Predicted SNR upper bound update | QUALCOMM Europe Inc. - Italy | withdrawn |  |  |
| R5-222592 | Alignment of RMC note for DRX test cases | QUALCOMM Europe Inc. - Italy | revised |  | R5-223864 |
| R5-222593 | Update to FR1 Scell activation and deactivation test cases | QUALCOMM Europe Inc. - Italy | revised |  | R5-223886 |
| R5-222594 | Update to FR2 interruption test case 5.5.2.1 | QUALCOMM Europe Inc. - Italy | revised |  | R5-223856 |
| R5-222595 | Correction to demod test case procedure | QUALCOMM Europe Inc. - Italy | agreed |  |  |
| R5-222596 | Addition of measurement period requirements in Multi-RTT test conditions, DL-TDOA test conditions and DL-AoD test conditions | CATT | agreed |  |  |
| R5-222597 | Correction of NR RSTD test cases 14.2.1, 14.2.2, 14.3.1 and 14.3.2 | CATT | agreed |  |  |
| R5-222598 | Addition of SRS configuration in UE Rx-Tx time difference measurement period test cases | CATT,X-Net | agreed |  |  |
| R5-222599 | Addition of new RSTD accuracy test case 14.2.3 | CATT | agreed |  |  |
| R5-222600 | Addition of new RSTD accuracy test case 14.2.4 | CATT | agreed |  |  |
| R5-222601 | Addition of new RSTD accuracy test case 14.3.3 | CATT | agreed |  |  |
| R5-222602 | Addition of new RSTD accuracy test case 14.3.4 | CATT | revised |  | R5-223748 |
| R5-222603 | Addition of new UE Rx-TX time difference accuracy test case 15.3.1 | CATT, X-Net | agreed |  |  |
| R5-222604 | Addition of new UE Rx-TX time difference accuracy test case 15.3.2 | CATT, X-Net | agreed |  |  |
| R5-222605 | Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer | CATT | revised |  | R5-223388 |
| R5-222606 | Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset | CATT | revised |  | R5-223389 |
| R5-222607 | Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer | CATT | revised |  | R5-223390 |
| R5-222608 | Addition of test applicabilities for RSTD and NR UE Rx-Tx time difference accuracy measurement test cases | CATT | agreed |  |  |
| R5-222609 | Addition of test applicabilities for positioning SI messages offset test case | CATT | revised |  | R5-223391 |
| R5-222610 | Addition of scheduling information for positioning system information blocks | CATT | revised |  | R5-223387 |
| R5-222611 | Revised WID on UE Conformance Test Aspects for NR Positioning Support | CATT | revised |  | R5-223483 |
| R5-222612 | Work plan: UE Conformance Test Aspects for NR Positioning Support | CATT | available |  |  |
| R5-222613 | SR UE Conformance Test Aspects - NR Positioning Support | CATT | available |  |  |
| R5-222614 | Work plan: UE Conformance Test Aspects – UE power saving in NR | CATT | available |  |  |
| R5-222615 | SR UE Conformance Test Aspects - UE power saving in NR | CATT | available |  |  |
| R5-222616 | Addition of UE co-existence requirements for band n18 to TS 38.521-1 | NTT DOCOMO INC. | withdrawn |  |  |
| R5-222617 | Addition of default message contents for NR SL Demod | Huawei,Hisilicon | agreed |  |  |
| R5-222618 | Addition of PICS for NR SL Demod TCs | Huawei,Hisilicon | agreed |  |  |
| R5-222619 | Addition of NR SL Demod TC 11.1.2 - PSSCH | Huawei,Hisilicon | agreed |  |  |
| R5-222620 | Addition of NR SL Demod TC 11.1.3 - PSCCH | Huawei,Hisilicon | agreed |  |  |
| R5-222621 | Addition of NR SL Demod TC 11.1.4 - PSBCH | Huawei,Hisilicon | agreed |  |  |
| R5-222622 | Addition of NR SL Demod TC 11.1.5 - PSFCH | Huawei,Hisilicon | agreed |  |  |
| R5-222623 | Addition of NR SL Demod TC 11.1.6 - imbalance | Huawei,Hisilicon | agreed |  |  |
| R5-222624 | Addition of NR SL Demod TC 11.1.7 - soft buffer | Huawei,Hisilicon | agreed |  |  |
| R5-222625 | Addition of NR SL Demod TC 11.1.8 - PSCCH capability | Huawei,Hisilicon | agreed |  |  |
| R5-222626 | Addition of NR SL Demod TC 11.1.9 - PSFCH capability | Huawei,Hisilicon | revised |  | R5-223704 |
| R5-222627 | Correction to references for NR SL Demod | Huawei,Hisilicon | agreed |  |  |
| R5-222628 | Addition of NR SL Demod RMCs in Annex A | Huawei,Hisilicon | agreed |  |  |
| R5-222629 | Addition of test tolerance for NR SL Demod in Annex F | Huawei,Hisilicon | agreed |  |  |
| R5-222630 | Addition of test method for NR SL Demod in Annex G | Huawei,Hisilicon | agreed |  |  |
| R5-222631 | Addition of test applicability for NR SL Demod TCs | Huawei,Hisilicon | agreed |  |  |
| R5-222632 | Addition of test applicability for NR SL RRM TCs | Huawei,Hisilicon | agreed |  |  |
| R5-222633 | Correction to NR SL RRM TCs | Huawei,Hisilicon | agreed |  |  |
| R5-222634 | Addition of PICS for NR HST RRM TCs | Huawei,Hisilicon | revised |  | R5-223721 |
| R5-222635 | Correction to applicability of HST RRM TCs | Huawei,Hisilicon | revised |  | R5-223725 |
| R5-222636 | Correction to FR1 EN-DC TC 4.7.5.1 - SFTD | Huawei,Hisilicon | agreed |  |  |
| R5-222637 | Correction to FR2 EN-DC BFD TCs | Huawei,Hisilicon | revised |  | R5-223857 |
| R5-222638 | Correction to FR1 NR SA TCs 6.1.2.2 - low priority reselection | Huawei,Hisilicon | agreed |  |  |
| R5-222639 | Correction to FR2 NR SA BFD TCs | Huawei,Hisilicon | revised |  | R5-223861 |
| R5-222640 | Correction to inter-RAT TC 8.5.1.1 - SFTD | Huawei,Hisilicon | agreed |  |  |
| R5-222641 | Addition of test frequency for NR SL concurrent | Huawei,Hisilicon | revised |  | R5-223359 |
| R5-222642 | Correction to default configuration of SCI | Huawei,Hisilicon | revised |  | R5-223360 |
| R5-222643 | Correction to sidelink IE SL-BWP-PoolConfig | Huawei,Hisilicon | revised |  | R5-223361 |
| R5-222644 | Correction to sidelink IE SL-BWP-PoolConfigCommon | Huawei,Hisilicon | revised |  | R5-223362 |
| R5-222645 | Correction to sidelink IE SL-FreqConfig | Huawei,Hisilicon | revised |  | R5-223363 |
| R5-222646 | Correction to sidelink IE SL-FreqConfigCommon | Huawei,Hisilicon | revised |  | R5-223364 |
| R5-222647 | Correction to sidelink IE SL-ReportConfigList | Huawei,Hisilicon | agreed |  |  |
| R5-222648 | Correction to test procedures for unicast link establishment | Huawei,Hisilicon | revised |  | R5-223365 |
| R5-222649 | Addition of abbreviations for RedCap test | Huawei,Hisilicon | revised |  | R5-223410 |
| R5-222650 | Correction to general functional requirements for RedCap test | Huawei,Hisilicon | agreed |  |  |
| R5-222651 | Correction to generic procedure for RedCap test | Huawei,Hisilicon | withdrawn |  |  |
| R5-222652 | Correction to Radio reference configurations for RedCap test | Huawei,Hisilicon | revised |  | R5-223354 |
| R5-222653 | Correction to EN-DC TC 8.2.6.1.1.x - RLC failure | Huawei,Hisilicon | agreed |  |  |
| R5-222654 | New WID on UE Conformance - NR Uplink Data Compression (UDC) | CATT | revised |  | R5-223319 |
| R5-222655 | Addition of UE co-existence requirements for band n18 to TS 38.521-1 | NTT DOCOMO INC., KDDI Corporation | agreed |  |  |
| R5-222656 | Modification of testcase 8.1.5.11.2 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223402 |
| R5-222657 | Editorial update IE SCellIndex | Ericsson | agreed |  |  |
| R5-222658 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n41 | Ligado Networks | revised |  | R5-223745 |
| R5-222659 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n48 | Ligado Networks | revised |  | R5-223746 |
| R5-222660 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n77 | Ligado Networks | revised |  | R5-223747 |
| R5-222661 | Updating General Spurious Emissions TC for CA\_n24-n41 | Ligado Networks | revised |  | R5-223734 |
| R5-222662 | Updating General Spurious Emissions TCs for CA\_n24-n48 | Ligado Networks | revised |  | R5-223735 |
| R5-222663 | Updating General Spurious Emissions TCs for CA\_n24-n77 | Ligado Networks | revised |  | R5-223736 |
| R5-222664 | General updates of clause 5 for R17 new CBW configurations | China Unicom, Ericsson | agreed |  |  |
| R5-222665 | Updating Spurious emission for UE co-existence TC for CA\_n24-n41 | Ligado Networks | revised |  | R5-223737 |
| R5-222666 | Updating Spurious emission for UE co-existence TC for CA\_n24-n48 | Ligado Networks | revised |  | R5-223738 |
| R5-222667 | Updating Spurious emission for UE co-existence TC for CA\_n24-n77 | Ligado Networks | revised |  | R5-223739 |
| R5-222668 | TP analysis for AMPR for Rel-17 CA\_n24-n41 | Ligado Networks | withdrawn |  |  |
| R5-222669 | TP analysis for AMPR for Rel-17 CA\_n24-n48 | Ligado Networks | withdrawn |  |  |
| R5-222670 | TP analysis for AMPR for Rel-17 CA\_n24-n77 | Ligado Networks | withdrawn |  |  |
| R5-222671 | Correction to SON-MDT test case 8.1.6.1.2.x | Starpoint,  MediaTek Inc | revised |  | R5-223496 |
| R5-222672 | Updating AMPR TC for Rel-17 CA\_n24-n41 | Ligado Networks | revised |  | R5-223740 |
| R5-222673 | Updating AMPR TC for Rel-17 CA\_n24-n48 | Ligado Networks | revised |  | R5-223741 |
| R5-222674 | General updates of clause 5 for R16 new CBW configurations | China Unicom | withdrawn |  |  |
| R5-222675 | Updating AMPR TC for Rel-17 CA\_n24-n77 | Ligado Networks | revised |  | R5-223742 |
| R5-222676 | General updates of clause 5 for R17 CADC configurations | China Unicom, WE Certification | revised |  | R5-223743 |
| R5-222677 | General updates of clause 5 for R16 new CBW configurations | China Unicom | withdrawn |  |  |
| R5-222678 | WP - UE Conformance Test Aspects - 29 dBm UE Power Class for LTE Band 41and NR Band n41 (UID-920068) | T-Mobile USA Inc. | available |  |  |
| R5-222679 | SR - UE Conformance Test Aspects - 29 dBm UE Power Class for LTE Band 41and NR Band n41 (UID-920068) | T-Mobile USA Inc. | available |  |  |
| R5-222680 | Revised WID - UE Conformance Test Aspects - 29 dBm UE Power Class for LTE Band 41and NR Band n41 | T-Mobile USA Inc. | withdrawn |  |  |
| R5-222681 | General updates of clause 5 for R16 new CBW configurations | China Unicom, Orange | revised |  | R5-223695 |
| R5-222682 | Update of test points analysis for CA\_n1A-n3A refsens test case | China Unicom | agreed |  |  |
| R5-222683 | Update of R17 CADC configurations into refsense TC | China Unicom | agreed |  |  |
| R5-222684 | Update of CBW 70MHz into refsens TC | China Unicom | revised |  | R5-223694 |
| R5-222685 | WP on ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest for RAN5#95e | China Unicom | available |  |  |
| R5-222686 | SR on ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest for RAN5#95e | China Unicom | available |  |  |
| R5-222687 | WP on NR\_redcap\_plus\_ARCH-UEConTest for RAN5#95e | China Unicom | reserved |  |  |
| R5-222688 | SR on NR\_redcap\_plus\_ARCH-UEConTest for RAN5#95e | China Unicom | reserved |  |  |
| R5-222689 | Introduction of NR SA FR2 SRS-RSRP measurement in non-DRX test case 7.6.4.1 | Qualcomm Austria RFFE GmbH | revised |  | R5-223712 |
| R5-222690 | Correction to UAC test case 11.3.1a | Keysight Technologies UK Ltd | revised |  | R5-223435 |
| R5-222691 | Modification of SIB1 in common environment for idle/inactive measurements | Nokia, Nokia Shanghai Bell | withdrawn |  | - |
| R5-222692 | PRD-17 on Guidance to Work Item Codes (post RAN#96-e version) | Bureau Veritas (Rapporteur) | reserved |  |  |
| R5-222693 | Update to test applicability for 4G test caes without UL CA | Bureau Veritas | agreed |  |  |
| R5-222694 | Correction to CA test cases applicability and band selection criteria | Bureau Veritas | agreed |  |  |
| R5-222695 | Addition of table for NR UL MIMO Capabilities | Bureau Veritas, Huawei, HiSilicon | agreed |  |  |
| R5-222696 | Correction to test bands selection criteria for UL MIMO capabilities | Bureau Veritas, Huawei, HiSilicon | revised |  | R5-223843 |
| R5-222697 | Editorial correction to NB-IoT performance test cases | Bureau Veritas | agreed |  |  |
| R5-222698 | Correction to MPR test applicability for category 1bis | Bureau Veritas | agreed |  |  |
| R5-222699 | Removal of MPR and A-MPR for category 1bis from applicability table | Bureau Veritas | agreed |  |  |
| R5-222700 | Editorial correction to EN-DC test cases | Bureau Veritas | agreed |  |  |
| R5-222701 | Correction to applicability of 5G test cases | Bureau Veritas, Rohde & Schwarz | revised |  | R5-223844 |
| R5-222702 | Update to R15 common part and DC configurations in clause 5 | Bureau Veritas, Rohde & Schwarz | agreed |  |  |
| R5-222703 | Update to R16 Configuration for DC | Bureau Veritas, Nokia, Huawei, HiSilicon | agreed |  |  |
| R5-222704 | Update to R17 Configuration for DC | Bureau Veritas, Huawei, HiSilicon, Verizon Switzerland AG, NTT DOCOMO INC. | revised |  | R5-223744 |
| R5-222705 | Modification of testcase 8.1.5.11.3 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223403 |
| R5-222706 | Introduction of NR SA FR2 SRS-RSRP measurement accuracy test case 7.7.5.1 | Qualcomm Austria RFFE GmbH | revised |  | R5-223713 |
| R5-222707 | Addition of new test case 8.2.5.3.3 | Element Materials Technology | revised |  | R5-223426 |
| R5-222708 | Addition of new test case 8.2.5.4.3 | Element Materials Technology | withdrawn |  |  |
| R5-222709 | Inclusive language review for TS 36.523-2 | CATT | not pursued |  |  |
| R5-222710 | Inclusive language review for TS 36.523-2 | CATT | not pursued |  |  |
| R5-222711 | Update of TC 12.1.3.1- PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration | TDIA, CATT | revised |  | R5-223366 |
| R5-222712 | Update of TC 12.1.5.1- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | revised |  | R5-223367 |
| R5-222713 | Update of TC 12.1.5.2- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | revised |  | R5-223368 |
| R5-222714 | Update of TC 12.2.1.6- Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception | TDIA, CATT | revised |  | R5-223369 |
| R5-222715 | Update of TC 12.2.4.1- Inter-carrier concurrent operation / Sidelink Reconfiguration via Uu RRC / SL DRB management / transmission side | TDIA, CATT | agreed |  |  |
| R5-222716 | Update of TC 12.2.5.3- Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting | TDIA, CATT | revised |  | R5-223370 |
| R5-222717 | New WID on UE Conformance – Enhanced Private Network Support for NG-RAN | China Telecom Corporation Ltd. | revised |  | R5-223320 |
| R5-222718 | Addition of test tolerance analysis for 4.7.7.1 and 6.7.9.1 EN-DC FR1 L1-SINR absolute accuracy tests | Sporton | withdrawn |  |  |
| R5-222719 | Completion 4.7.7.1 and 6.7.9.1 including TT anaysis results | Sporton | revised |  | R5-223610 |
| R5-222720 | Addition of test tolerance analysis for 4.7.7.2 and 6.7.9.2 FR1 L1-SINR absolute accuracy tests | Sporton | withdrawn |  |  |
| R5-222721 | Completion 4.7.7.2 and 6.7.9.2 including TT anaysis results | Sporton | revised |  | R5-223611 |
| R5-222722 | Addition of test tolerance analysis for 4.7.7.3 and 6.7.9.3 EN-DC FR1 L1-SINR absolute accuracy tests | Sporton | withdrawn |  |  |
| R5-222723 | Completion 4.7.7.3 and 6.7.9.3 including TT anaysis results | Sporton | revised |  | R5-223612 |
| R5-222724 | Update to eMIMO test cases 4.5.5.6 and 4.5.5.7 | Sporton, Huawei, HiSilicon | withdrawn |  | - |
| R5-222725 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | revised |  | R5-223665 |
| R5-222726 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | revised |  | R5-223666 |
| R5-222727 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | revised |  | R5-223667 |
| R5-222728 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | revised |  | R5-223668 |
| R5-222729 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | revised |  | R5-223669 |
| R5-222730 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | revised |  | R5-223670 |
| R5-222731 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | revised |  | R5-223671 |
| R5-222732 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | revised |  | R5-223672 |
| R5-222733 | Update for 38.521-1\_TPanalysis\_7.3\_RefSense | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222734 | Update TpAnalysisSpur\_DC\_14A\_n2A | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222735 | Update TpAnalysisSpur\_DC\_14A\_n66A | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222736 | Add 7.5F.1 and 7.6F.2 | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222737 | Add MU and TT for 7.5F.1 and 7.6F.2 | Qualcomm Israel Ltd. | revised |  | R5-223754 |
| R5-222738 | Update 7.3F.2 Ref sensitivity power level | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222739 | Introduction of 7.6F.2 IBB for NR\_U | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222740 | Update for 6.3.3.1 General clause of Tx ON-OFF time mask | Qualcomm Israel Ltd. | withdrawn |  | - |
| R5-222741 | Update 6.4.2.1a EVM including symbols with transient period | Qualcomm Israel Ltd. | revised |  | R5-223872 |
| R5-222742 | Update AMPR for NS\_04 | Qualcomm Israel Ltd. | revised |  | R5-223808 |
| R5-222743 | Update for 7.3B.2.0 Min Requirements of Ref sensitivity for EN-DC | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222744 | New WID on UE Conformance- Introduction of DL 1024 QAM for NR Frequency Range 1 (FR1) | QUALCOMM Europe Inc. - Italy | revised |  | R5-223321 |
| R5-222745 | Update 6.5.3.2 Spurious emissions for UE co-existence | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222746 | Introduction of ACS for NR\_U | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222747 | Update 6.5B.3.3.2 for R16 DC\_14\_n2 and DC\_14\_n66 | Qualcomm Israel Ltd. | revised |  | R5-223673 |
| R5-222748 | Update 6.5B.3.3.2 for R17 DC\_14\_n2 and DC\_14\_n66 | Qualcomm Israel Ltd. | agreed |  |  |
| R5-222749 | Correction to NR MAC test cases 7.1.1.4.2.x | Keysight Technologies UK Ltd | withdrawn |  |  |
| R5-222750 | New WID on UE Conformance - Further enhancements on MIMO for NR | Samsung, Huawei, Hisilicon | revised |  | R5-223322 |
| R5-222751 | New WID on UE Conformance - NR support for high speed train scenario in frequency range 2 (FR2) | Samsung | revised |  | R5-223323 |
| R5-222752 | Discussion on n48 NS-27 A-MPR test configuration | Samsung | revised |  | R5-223623 |
| R5-222753 | Correction to NR TC 11.3.5-UAC New cell not in the country of its HPLMN | Huawei, Hisilicon | revised |  | R5-223436 |
| R5-222754 | Correction to NR TC 11.3.6-UAC for Access Identity 2 | Huawei, Hisilicon | revised |  | R5-223437 |
| R5-222755 | Correction to NR IMS TC 7.1-MO Voice Call with 503 | Huawei, Hisilicon | revised |  | R5-223484 |
| R5-222756 | Correction to NR IMS TC 7.4-MO Voice Call with preconditions at both side | Huawei, Hisilicon | withdrawn |  |  |
| R5-222757 | Correction to NR IMS TC 7.4a-MO Voice Call with preconditions and default Configuration | Huawei, Hisilicon | agreed |  |  |
| R5-222758 | Correction to NR IMS TC 7.5-MO Voice Call without preconditions at both side | Huawei, Hisilicon | agreed |  |  |
| R5-222759 | Correction to NR IMS TC 7.6-MT Voice Call with preconditions at both side | Huawei, Hisilicon | revised |  | R5-223469 |
| R5-222760 | Correction to NR IMS TC 7.7-MT Voice Call without preconditions at both side | Huawei, Hisilicon | agreed |  |  |
| R5-222761 | Correction to NR IMS TC 7.8-MT Voice Call without preconditions at MO UE | Huawei, Hisilicon | revised |  | R5-223470 |
| R5-222762 | Correction to NR IMS TC 7.9-MT Voice Call without preconditions at MT UE | Huawei, Hisilicon | revised |  | R5-223471 |
| R5-222763 | Correction to NR IMS TC 7.10-MT Voice call without preconditions and without SDP offer | Huawei, Hisilicon | agreed |  |  |
| R5-222764 | Correction to NR IMS TC 7.12-MO Voice Call without preconditions at MT UE | Huawei, Hisilicon | revised |  | R5-223485 |
| R5-222765 | Correction to NR IMS TC 7.13-MTSI MT Voice Call with RTCP disabled | Huawei, Hisilicon | agreed |  |  |
| R5-222766 | Correction to NR IMS TC 7.18-MTSI MO Voice Call with AMR-WB Encoded Media | Huawei, Hisilicon | agreed |  |  |
| R5-222767 | Correction to NR IMS TC 7.19-MTSI MO Voice Call with AMR-WB IO Encoded Media | Huawei, Hisilicon | agreed |  |  |
| R5-222768 | Correction to NR IMS TC 7.20-MTSI MO Voice Call\_add video and remove video | Huawei, Hisilicon | withdrawn |  |  |
| R5-222769 | Correction to NR IMS TC 7.24-UE receives CANCEL request for a forked MT voice call | Huawei, Hisilicon | revised |  | R5-223486 |
| R5-222770 | Correction to NR IMS TC 7.25-MTSI MT Voice Call without SDP offer in INVITE | Huawei, Hisilicon | agreed |  |  |
| R5-222771 | Correction to NR IMS TC 7.26-Mobile Originating CAT | Huawei, Hisilicon | revised |  | R5-223487 |
| R5-222772 | Correction to NR IMS TC 7.27-Session Timer for MO Voice Call | Huawei, Hisilicon | revised |  | R5-223488 |
| R5-222773 | Correction to NR IMS TC 7.28-Session Timer for MO Voice Call | Huawei, Hisilicon | revised |  | R5-223489 |
| R5-222774 | Correction to NR IMS TC 7.29-Session Timer for MO Voice Call | Huawei, Hisilicon | revised |  | R5-223490 |
| R5-222775 | Correction to NR IMS TC 7.30-Session Timer for MO Voice Call | Huawei, Hisilicon | revised |  | R5-223491 |
| R5-222776 | Correction to NR IMS TC 7.31-Session Timer for MT Voice Call | Huawei, Hisilicon | agreed |  |  |
| R5-222777 | Correction to NR IMS TC 7.32-Session Timer for MT Voice Call | Huawei, Hisilicon | agreed |  |  |
| R5-222778 | Correction to NR IMS TC 7.33-Session Timer for MT Voice Call | Huawei, Hisilicon | revised |  | R5-223472 |
| R5-222779 | Correction to NR IMS TC 7.34-Session Timer for MT Voice Call | Huawei, Hisilicon | revised |  | R5-223473 |
| R5-222780 | Correction to NR IMS TC 8.3-Originating Identification Restriction Signalling 5GS | Huawei, Hisilicon | revised |  | R5-223492 |
| R5-222781 | Correction to NR IMS TC 8.6-Terminating Identification Restriction Signalling 5GS | Huawei, Hisilicon | revised |  | R5-223474 |
| R5-222782 | Correction to NR IMS TC 8.8-Communication Forwarding Unconditional Signalling 5GS | Huawei, Hisilicon | revised |  | R5-223493 |
| R5-222783 | Correction to NR IMS TC 8.41-Communication Forwarding on No Reply MO Voice Call | Huawei, Hisilicon | revised |  | R5-223494 |
| R5-222784 | Correction to NR IMS TC 9.1-MO SMS 5GS | Huawei, Hisilicon | agreed |  |  |
| R5-222785 | Correction to NR IMS TC 9.3-MO Concatenated SMS 5GS | Huawei, Hisilicon | agreed |  |  |
| R5-222786 | Correction to NR IMS TC 9.5-MO SMS RP-ERROR 5GS | Huawei, Hisilicon | agreed |  |  |
| R5-222787 | Correction to EVS configuration in initial SDP offer | Huawei, Hisilicon | withdrawn |  |  |
| R5-222788 | Correction to LTE TC 8.2.4.31.4-Conditional handover | Huawei, Hisilicon | revised |  | R5-223357 |
| R5-222789 | Inclusive Language update 36523-1\_cover | Huawei, Hisilicon | not pursued |  |  |
| R5-222790 | Inclusive Language update 36523-1\_s00-s06 | Huawei, Hisilicon | not pursued |  |  |
| R5-222791 | Inclusive Language update 36523-1\_s07\_01 | Huawei, Hisilicon | not pursued |  |  |
| R5-222792 | Inclusive Language update 36523-1\_s08\_01-s08\_02 | Huawei, Hisilicon | not pursued |  |  |
| R5-222793 | Inclusive Language update 36523-1\_s08\_03 | Huawei, Hisilicon | not pursued |  |  |
| R5-222794 | Inclusive Language update 36523-1\_s08\_04-s08\_09 | Huawei, Hisilicon | not pursued |  |  |
| R5-222795 | Inclusive Language update 36523-1\_s10-s13 | Huawei, Hisilicon | not pursued |  |  |
| R5-222796 | Inclusive Language update 36523-1\_s22-s24 | Huawei, Hisilicon | not pursued |  |  |
| R5-222797 | SR of Rel-16 NR Mobility Enhancement WI after RAN5 95e | Huawei, Hisilicon | reserved |  |  |
| R5-222798 | NR Mobility Enhancement WP after RAN5 95e | Huawei, Hisilicon | reserved |  |  |
| R5-222799 | Revised WID on UE conformance test aspects for NR mobility enhancements | Huawei, Hisilicon | withdrawn |  |  |
| R5-222800 | TS 36.523-1 Tracker status before RAN5-94e | Huawei, Hisilicon | withdrawn |  |  |
| R5-222801 | TS 38.523-1 Tracker status before RAN5-94e | Huawei, Hisilicon | withdrawn |  |  |
| R5-222802 | TS 36.523-1 Tracker status after RAN5-94e | Huawei, Hisilicon | withdrawn |  |  |
| R5-222803 | TS 38.523-1 Tracker status after RAN5-94e | Huawei, Hisilicon | withdrawn |  |  |
| R5-222804 | Discussion paper on legacy test cases extension for Redcap | Huawei, Hisilicon | noted |  |  |
| R5-222805 | Discussion paper on IMS Data Channel test | Huawei, Hisilicon | revised |  | R5-223355 |
| R5-222806 | New WID for IMS Data Channel test | Huawei, Hisilicon | revised |  | R5-223356 |
| R5-222807 | Update 6.5.3.2 Spur-emiss R16\_17 for UE co-exist | Qualcomm Israel Ltd. | revised |  | R5-223698 |
| R5-222808 | Correction of A-MPR regions for NS\_46 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-222809 | SR of Rel-16 NR V2X WI after RAN5 95e | Huawei, Hisilicon | available |  |  |
| R5-222810 | WP of Rel-16 NR V2X WI after RAN5 95e | Huawei, Hisilicon | available |  |  |
| R5-222811 | Correction to NR TC 7.1.1.10.1-DataInactivityTimer expiry | Huawei, Hisilicon | agreed |  |  |
| R5-222812 | Correction to NR TC 7.1.1.7.1.1-Activation and Deactivation of Scells | Huawei, Hisilicon | withdrawn |  |  |
| R5-222813 | Correction to NR TC 11.3.1-UAC for MO Speech Call and SMSoIP | Huawei, Hisilicon | agreed |  |  |
| R5-222814 | Correction to NR TC 6.3.1.10-SOR during Mobility Update Registration | Huawei, Hisilicon | withdrawn |  |  |
| R5-222815 | Correction to NR TC 11.1.2-EPS Fallback with redirection without N26 | Huawei, Hisilicon | revised |  | R5-223431 |
| R5-222816 | Correction to NR CA TC 8.1.5.7.1-CA duplication | Huawei, Hisilicon,Starpoint | revised |  | R5-223424 |
| R5-222817 | Add PICS for PUCCH Scell | Huawei, Hisilicon | agreed |  |  |
| R5-222818 | Correction to V2X message | Huawei, Hisilicon | agreed |  |  |
| R5-222819 | Correction to NR V2X NAS TC 13.2.1-Confilict Layer 2 ID | Huawei, Hisilicon,TF160 | withdrawn |  |  |
| R5-222820 | Correction to NR V2X NAS TC 13.2.2 and 13.2.6 | Huawei, Hisilicon,TF160 | withdrawn |  |  |
| R5-222821 | Update SIB1 for RedCap test | Huawei, Hisilicon | revised |  | R5-223411 |
| R5-222822 | Update SIB2 and SIB4 for RedCap test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222823 | Update the SN-FiledLengh of PDCP-Config and RLC-Config for RedCap test | Huawei, Hisilicon | revised |  | R5-223412 |
| R5-222824 | Update RRCReconfiguration and UEAssistanceInformation for RedCap test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222825 | Add initialDownlinkBWP-RedCap into initialDownlinkBWP for RedCap test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222826 | Add initialUplinkBWP-RedCap into initialUplinkBWP for RedCap test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222827 | Add PICS for RedCap test | Huawei, Hisilicon | agreed |  |  |
| R5-222828 | WP UE Conformance - Multi-SIM devices for LTE/NR | China Telecommunications | available |  | - |
| R5-222829 | Update of 6.2B.1.3\_1 UE Maximum Output Power for inter-Band EN-DC with 2 E-UTRA CCs and 1 NR CC | Huawei, HiSilicon | agreed |  |  |
| R5-222830 | Update of 6.2B.4.1.3\_1 Configured Output Power for inter-Band EN-DC with 2 E-UTRA CCs and 1 NR CC | Huawei, HiSilicon | agreed |  |  |
| R5-222831 | Addition of test point analysis for 6.2B.1.3\_1 Maximum Output Power | Huawei, HiSilicon | agreed |  |  |
| R5-222832 | Addition of test point analysis for 6.2B.4.1.3\_1 Configured Output Power | Huawei, HiSilicon | revised |  | R5-223771 |
| R5-222833 | WP - Common RF requirement configured output power for EN-DC with 3 uplink CC and 2 different bands (2CC LTE, 1CC NR FR1) | Huawei, HiSilicon | reserved |  |  |
| R5-222834 | SR - Common RF requirement configured output power for EN-DC with 3 uplink CC and 2 different bands (2CC LTE, 1CC NR FR1) | Huawei, HiSilicon | reserved |  |  |
| R5-222835 | Correction to Combinations of system information blocks | ROHDE & SCHWARZ | revised |  | R5-223417 |
| R5-222836 | Clarification of Annex C for calculation of SSB and CORESET#0 for PCells | Ericsson | agreed |  |  |
| R5-222837 | Addition of Reference sensitivity TC for RedCap | China Unicom | revised |  | R5-223789 |
| R5-222838 | Correction to NR5GC testcase 8.1.1.2.4 | ROHDE & SCHWARZ | revised |  | R5-223423 |
| R5-222839 | Addition of redcap general requirement into clause 3-5 | China Unicom, ZTE | revised |  | R5-223790 |
| R5-222840 | SR of Rel-17 NR MBS WI after RAN5 95e | Huawei, Hisilicon | reserved |  |  |
| R5-222841 | WP of Rel-17 NR MBS WI after RAN5 95e | Huawei, Hisilicon | reserved |  |  |
| R5-222842 | Add Default configuration for DCI format 4\_0 scheduling MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222843 | Add Default configuration for DCI format 4\_1 scheduling MBS Multicast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222844 | Add test procedures for MBS Multicast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222845 | Update MBS related parameters into PDU session establishment request | Huawei, Hisilicon | withdrawn |  |  |
| R5-222846 | Update MBS related parameters into PDU session establishment accept | Huawei, Hisilicon | withdrawn |  |  |
| R5-222847 | Update MBS related parameters into PDU session modification request | Huawei, Hisilicon | withdrawn |  |  |
| R5-222848 | Update MBS related parameters into PDU session modification command | Huawei, Hisilicon | withdrawn |  |  |
| R5-222849 | Add SI combination for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222850 | Add SIB20 for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222851 | Add SIB21 for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222852 | Add MBSBroadcastConfiguration for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222853 | Add MBSInterestIndication for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222854 | Add MBS information elements for MBS test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222855 | Add PICS for MBS test | Huawei, Hisilicon | withdrawn |  |  |
| R5-222856 | Correction to clause 7.3.5.3.4 Sequence of intra-NR inter-cell CA handover | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222857 | Updates of clause 5 for R15 bands and CBW configurations | China Unicom, Bureau Veritas, Anritsu | agreed |  |  |
| R5-222858 | Add test case 11.1.3a | Ericsson | revised |  | R5-223432 |
| R5-222859 | Add applicability for test case 11.1.3a | Ericsson | agreed |  |  |
| R5-222860 | Updates to Test Configurations | CMCC | approved |  |  |
| R5-222861 | Updates to Uncertainty and TT Analysis | CMCC | approved |  |  |
| R5-222862 | Updates to References | CMCC | approved |  |  |
| R5-222863 | Updates to Test Model | CMCC | approved |  |  |
| R5-222864 | Updates to Test Parameters | CMCC | approved |  |  |
| R5-222865 | Text Proposal on Test Procedure A.2.2.5 | CMCC | approved |  |  |
| R5-222866 | Text Proposal on Test Procedure A.2.2.6 | CMCC | approved |  |  |
| R5-222867 | Text Proposal on Test Procedure A.3.1.2 | CMCC | approved |  |  |
| R5-222868 | Text Proposal on Test Procedure A.3.2.1 | CMCC | approved |  |  |
| R5-222869 | Summary of the documents for TR 38.918 | CMCC | noted |  |  |
| R5-222870 | Jumbo Applicability CR for NR\_RF\_TxD WI | CMCC | revised |  | R5-223783 |
| R5-222871 | Discussion on handling of pending configurations in Section 5 of TS 38.521-1, -2, -3 | CMCC, BV, Ericsson | revised |  | R5-223337 |
| R5-222872 | Discussion on handling of different types of configurations among WIs | CMCC, Huawei, Hisilicon, Ericsson | revised |  | R5-223338 |
| R5-222873 | Aligning test case Occupied bandwidth for UL MIMO with the latest work plan version | Ericsson | agreed |  |  |
| R5-222874 | New WID on: UE Conformance Test Aspects - Introduction of upper 700MHz A block E-UTRA band for the US (band 103) | Puloli | revised |  | R5-223324 |
| R5-222875 | Clarification of PCC and SCC configuration for CA test cases | Huawei, HiSilicon, CMCC | revised |  | R5-223793 |
| R5-222876 | Removing redundant ciphering algorithm for SDR testing | Huawei, HiSilicon, Bureau Veritas | agreed |  |  |
| R5-222877 | Limiting MBR relaxation reporting to Rel-15 only | Huawei, HiSilicon, Bureau Veritas | agreed |  |  |
| R5-222878 | Update to MPR test requirements to remove ambiguity of T\_LC | Huawei, HiSilicon, Bureau Veritas | revised |  | R5-223809 |
| R5-222879 | Update to FR2 6.2.3 A-MPR | Huawei, HiSilicon, Bureau Veritas | agreed |  |  |
| R5-222880 | Update to TT of beam correspondance | Huawei, HiSilicon, Bureau Veritas | withdrawn |  |  |
| R5-222881 | Adding missing configurations in SE co-ex Rel-17 table | Huawei, HiSilicon, Bureau Veritas | revised |  | R5-223836 |
| R5-222882 | Editorial update to minimum requirement in 6.5.7.0 | Huawei, HiSilicon | agreed |  |  |
| R5-222883 | Addition of 6.4E.2.2 Carrier leakage for V2X | Huawei, HiSilicon | revised |  | R5-223703 |
| R5-222884 | Addition of 6.4E.2.3 In-band emissions for V2X | Huawei, HiSilicon | agreed |  |  |
| R5-222885 | Addition of FR2 6.2D.3 for ULFPTx | Huawei, HiSilicon | withdrawn |  |  |
| R5-222886 | Update to TP analysis of A-MPR to add ULFPTx | Huawei, HiSilicon | agreed |  |  |
| R5-222887 | Update to minimum requirements for BFR | Huawei, HiSilicon | agreed |  |  |
| R5-222888 | Addition of eMIMO test case 6.5.5.5 | Huawei, HiSilicon | revised |  | R5-223880 |
| R5-222889 | Addition of eMIMO test case 6.5.5.6 | Huawei, HiSilicon | revised |  | R5-223881 |
| R5-222890 | Update to FR2 SCell BFD test cases | Huawei, HiSilicon | agreed |  |  |
| R5-222891 | Discussion on minimum test time for 1% residual BLER | Huawei, HiSilicon | revised |  | R5-223631 |
| R5-222892 | Update to Annex G for minimum test time | Huawei, HiSilicon | revised |  | R5-223727 |
| R5-222893 | Update to Annex F for URLLC test cases | Huawei, HiSilicon | revised |  | R5-223728 |
| R5-222894 | Update to URLLC test cases 5.2.x.y.6 | Huawei, HiSilicon | revised |  | R5-223726 |
| R5-222895 | Update to URLLC test cases 5.2.x.y.7 | Huawei, HiSilicon | agreed |  |  |
| R5-222896 | Update to URLLC test cases 6.2.x.y.1.2 | Huawei, HiSilicon | withdrawn |  |  |
| R5-222897 | Update to URLLC test case 7.2.2.2.2 | Huawei, HiSilicon | withdrawn |  |  |
| R5-222898 | Update to URLLC test case 7.2.2.2.3 | Huawei, HiSilicon | agreed |  |  |
| R5-222899 | Addition of Redcap MOP 6.2I.1 | Huawei, HiSilicon | revised |  | R5-223785 |
| R5-222900 | Addition of Redcap MPR 6.2I.2 | Huawei, HiSilicon | revised |  | R5-223786 |
| R5-222901 | Addition of Redcap AMPR 6.2I.3 | Huawei, HiSilicon | revised |  | R5-223787 |
| R5-222902 | Addition of Redcap configured output power 6.2I.4 | Huawei, HiSilicon | revised |  | R5-223788 |
| R5-222903 | Addition of TP analysis for FR1 RedCap requirements | Huawei, HiSilicon | agreed |  |  |
| R5-222904 | Addition of test applicability for RedCap test cases | Huawei, HiSilicon | revised |  | R5-223791 |
| R5-222905 | Addition of RedCap default test channel bandwidth | Huawei, HiSilicon | revised |  | R5-223784 |
| R5-222906 | Draft ITU-R document for IMT-2020 | Huawei, HiSilicon | noted |  |  |
| R5-222907 | New WID on UE Conformance – RF requirements enhancements for NR frequency range 1 (FR1) | Huawei, China Telecom, CMCC, China Unicom | revised |  | R5-223325 |
| R5-222908 | WP - Enhancements on MIMO for NR | Huawei, HiSilicon | reserved |  |  |
| R5-222909 | SR - Enhancements on MIMO for NR | Huawei, HiSilicon | reserved |  |  |
| R5-222910 | WP - RF requirements for NR frequency range 1 (FR1) | Huawei, HiSilicon | reserved |  |  |
| R5-222911 | SR - RF requirements for NR frequency range 1 (FR1) | Huawei, HiSilicon | reserved |  |  |
| R5-222912 | WP - NR URLLC | Huawei, HiSilicon | available |  |  |
| R5-222913 | SR - NU URLLC | Huawei, HiSilicon | available |  |  |
| R5-222914 | Removing test case 6.5D.1\_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.522 | Ericsson | agreed |  |  |
| R5-222915 | Removing test case 6.5D.1\_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.905 | Ericsson | agreed |  |  |
| R5-222916 | NR IIoT: Test Model updates | MCC TF160 | revised |  | R5-223444 |
| R5-222917 | Connection diagram for 1x2 nDLCA Demodulation and CSI cases | QUALCOMM Europe Inc. - Italy | agreed |  |  |
| R5-222918 | Addition of new test case 6.2G.1 maximum output power for Tx Diversity | Huawei, HiSilicon | revised |  | R5-223777 |
| R5-222919 | Addition of new test case 6.2G.2 maximum output power reduction for Tx Diversity | Huawei, HiSilicon | revised |  | R5-223778 |
| R5-222920 | Addition of new test case 6.2G.3 additional maximum output power reduction for Tx Diversity | Huawei, HiSilicon | revised |  | R5-223779 |
| R5-222921 | Addition of new test case 6.5G.2.3 Adjacent channel leakage ratio for Tx Diversity | Huawei, HiSilicon | revised |  | R5-223780 |
| R5-222922 | Update of 7.4 Maximum input level for Tx Diversity support | Huawei, HiSilicon | withdrawn |  |  |
| R5-222923 | Addition of Annex F for Tx Diversity test cases | Huawei, HiSilicon | revised |  | R5-223782 |
| R5-222924 | Addition of connection diagram for Tx Diversity support | Huawei, HiSilicon | agreed |  |  |
| R5-222925 | Addition of physical layer baseline capability for Tx Diversity support | Huawei, HiSilicon | withdrawn |  |  |
| R5-222926 | Addition of test applicabilities for Tx Diversity test cases | Huawei, HiSilicon | withdrawn |  |  |
| R5-222927 | Addition of test point analysis for new test case 6.2G.1 | Huawei, HiSilicon | agreed |  |  |
| R5-222928 | Addition of test point analysis for new test cases 6.2G.2 and 6.5G.2.3.1 | Huawei, HiSilicon | agreed |  |  |
| R5-222929 | Addition of test point analysis for new test case 6.2G.3 | Huawei, HiSilicon | agreed |  |  |
| R5-222930 | Update of the definition of uplink RB allocation for power class 1.5 UE | Huawei, HiSilicon | agreed |  |  |
| R5-222931 | WP - Transparent Tx Diversity (TxD) for NR | Huawei, HiSilicon | reserved |  |  |
| R5-222932 | SR - Transparent Tx Diversity (TxD) for NR | Huawei, HiSilicon | reserved |  |  |
| R5-222933 | Update of auxiliary procedure 4.5A.2B | MediaTek Inc. | agreed |  |  |
| R5-222934 | Update of RACS TC 8.1.5.9.1 | MediaTek Inc. | revised |  | R5-223425 |
| R5-222935 | Update of 5GMM TC 9.1.5.1.15 | MediaTek Inc. | revised |  | R5-223427 |
| R5-222936 | Update of E-UTRA release for EPSFB TC 11.1.8 and 11.1.9 | MediaTek Inc. | withdrawn |  |  |
| R5-222937 | Update of NR5G NPN TC 6.5.2.2 and 6.5.2.4 | MediaTek Inc. | revised |  | R5-223382 |
| R5-222938 | New WID on UE Conformance - NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) including EPS aspects | MediaTek Inc. | revised |  | R5-223326 |
| R5-222939 | Aligning test case 6.5D.2.4.1 NR ACLR for UL MIMO with the latest work plan version | Ericsson | agreed |  |  |
| R5-222940 | General updates of clause 5 for R16 CADC configurations | China Unicom, Verizon | revised |  | R5-223657 |
| R5-222941 | Correction to NR V2X test case 12.1.6.2 | Lenovo, MCC TF160 | agreed |  |  |
| R5-222942 | Correction to NR V2X test case 12.1.6.1 | Lenovo, MCC TF160 | agreed |  |  |
| R5-222943 | Addition of new NR V2X test case 12.1.4.1 | Lenovo | revised |  | R5-223371 |
| R5-222944 | Addition of new NR V2X test case 13.2.3 | Lenovo | revised |  | R5-223372 |
| R5-222945 | Addition of new NR V2X test case 13.2.4 | Lenovo | revised |  | R5-223373 |
| R5-222946 | Addition of applicability of new NR V2X test cases | Lenovo | revised |  | R5-223377 |
| R5-222947 | Addition of PICS for NR-V2X new test cases | Lenovo | withdrawn |  |  |
| R5-222948 | Addition of new SNPN test case | Lenovo | revised |  | R5-223495 |
| R5-222949 | Addition of Applicability of new SNPN test case | Lenovo | revised |  | R5-223383 |
| R5-222950 | Introduce and update PICS | Lenovo, Qualcomm | agreed |  |  |
| R5-222951 | Addition of new NR-NR Dual Connectivity test case | Lenovo | revised |  | R5-223497 |
| R5-222952 | Addition of Applicability of new NR-NR Dual Connectivity test case | Lenovo | revised |  | R5-223408 |
| R5-222953 | Correction to NR URLLC MAC Test Case 7.1.1.4.1.5 | Lenovo, MCC TF160 | agreed |  |  |
| R5-222954 | Correction to NR URLLC MAC Test Case 7.1.1.4.2.6 | Lenovo, MCC TF160 | agreed |  |  |
| R5-222955 | Aligning test case 6.5D.2.4.2 UTRA ACLR for UL MIMO with the latest work plan version | Ericsson | agreed |  |  |
| R5-222956 | Addition of new NR V2X test case 12.1.4.2 | Lenovo | revised |  | R5-223374 |
| R5-222957 | Editorial, removal of editors note in test case 5.2.2.2.10\_1 | Ericsson | revised |  | R5-223722 |
| R5-222958 | Adding TT and removal of editors note in test case 5.2.3.2.9\_1 | Ericsson | revised |  | R5-223723 |
| R5-222959 | Remove condition asynchronous cells | ROHDE & SCHWARZ | revised |  | R5-223853 |
| R5-222960 | Corrections to 6.6.3.2 | ROHDE & SCHWARZ | revised |  | R5-223858 |
| R5-222961 | Complete L1-RSRP FR2 tests | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222962 | Corrections AoA setup references | ROHDE & SCHWARZ | agreed |  |  |
| R5-222963 | Editorial - Remove empty tables from 5.5.5.x tests | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-222964 | Corrections 7.6.3.1 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222965 | Corrections 7.6.3.2 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222966 | Corrections 7.6.3.3 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222967 | Corrections 7.6.3.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222968 | Update to 4.3.2.2.3 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222969 | Update to 4.3.2.2.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222970 | Update to 6.3.2.2.3 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222971 | Update to 6.3.2.2.4 | ROHDE & SCHWARZ | agreed |  |  |
| R5-222972 | FR1 2-step RACH tests Annexes | ROHDE & SCHWARZ | revised |  | R5-223603 |
| R5-222973 | Applicability FR1 2-step RACH tests | ROHDE & SCHWARZ | revised |  | R5-223604 |
| R5-222974 | Adding TT and removal of editors note in test case 5.2.3.2.10\_1 | Ericsson | revised |  | R5-223724 |
| R5-222975 | Addition of CA\_n1A-n8A into MOP TC | China Unicom | agreed |  |  |
| R5-222976 | Update of feMob test case 5.1.42 | ZTE, Tejet, SRTC | agreed |  |  |
| R5-222977 | Update of feMob test case 5.1.43 | ZTE, Tejet, SRTC | agreed |  |  |
| R5-222978 | Update of feMob test case 5.1.44 | ZTE, Tejet, SRTC | agreed |  |  |
| R5-222979 | Update of feMob test case 5.1.45 | ZTE, SRTC, Tejet | agreed |  |  |
| R5-222980 | Update of feMob test case 5.1.46 | ZTE, SRTC, Tejet | agreed |  |  |
| R5-222981 | Update of feMob test case 5.1.53 | ZTE, SRTC, Tejet | agreed |  |  |
| R5-222982 | Update of feMob test case 5.1.54 | ZTE, SRTC, Tejet | agreed |  |  |
| R5-222983 | Update of feMob test case 5.1.55 | ZTE Corporation | agreed |  |  |
| R5-222984 | Update of feMob test case 5.1.56 | ZTE Corporation | agreed |  |  |
| R5-222985 | Update of feMob test case 5.1.57 | ZTE Corporation | agreed |  |  |
| R5-222986 | Update of feMob test case 5.1.58 | ZTE Corporation | agreed |  |  |
| R5-222987 | Update Annex E and F for feMob test cases | ZTE Corporation | withdrawn |  | - |
| R5-222988 | Update of 5GS IMS test case 10.15 | ZTE Corporation | withdrawn |  | - |
| R5-222989 | Update of Test procedure for IMS MO Emergency call release | ZTE Corporation | revised |  | R5-223341 |
| R5-222990 | WP NR\_2step\_RACH-UEConTest | ZTE Corporation | available |  |  |
| R5-222991 | SR NR\_2step\_RACH-UEConTest | ZTE Corporation | available |  |  |
| R5-222992 | Removal of NOTE1 for test case 5.2.2.2.9\_1, 5.2.2.2.10\_1, 5.2.3.2.9\_1 | Ericsson | agreed |  |  |
| R5-222993 | Corrections of DCI format for Tx TCs having impact on ETSI EN 301 908-25 | Ericsson | agreed |  |  |
| R5-222994 | Update of applicability of FR2 performance test | ROHDE & SCHWARZ | agreed |  |  |
| R5-222995 | Correction to MDT test case 8.1.6.1.3.3 | TDIA, CATT | agreed |  |  |
| R5-222996 | Addition of Measurement Capabilities for Idle/Inactive measurements testcase | TDIA, CATT | revised |  | R5-223401 |
| R5-222997 | Removal of brackets for DCI for Rx test cases | Ericsson | agreed |  |  |
| R5-222998 | Update of 4.6.7 EN-DC FR1 L1-SINR measurement procedure | Huawei, HiSilicon | agreed |  |  |
| R5-222999 | Update of 6.6.8 NR SA FR1 L1-SINR measurement procedure | Huawei, HiSilicon | agreed |  |  |
| R5-223000 | Addition of minimum requirements for EN-DC FR2 L1-SINR measurement for beam reporting | Huawei, HiSilicon | revised |  | R5-223707 |
| R5-223001 | Addition of 5.6.6.1 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | agreed |  |  |
| R5-223002 | Addition of 5.6.6.2 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | agreed |  |  |
| R5-223003 | Addition of 5.6.6.3 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | revised |  | R5-223605 |
| R5-223004 | Addition of 7.6.6.1 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | agreed |  |  |
| R5-223005 | Addition of 7.6.6.2 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | revised |  | R5-223882 |
| R5-223006 | Addition of 7.6.6.3 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | revised |  | R5-223606 |
| R5-223007 | Addition of Annex E and Annex F for FR2 L1-SINR measurement | Huawei, HiSilicon | agreed |  |  |
| R5-223008 | Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1 | Huawei, HiSilicon | revised |  | R5-223883 |
| R5-223009 | Addition of test tolerance analysis for 5.6.6.2 | Huawei, HiSilicon | revised |  | R5-223884 |
| R5-223010 | Addition of test tolerance analysis for 5.6.6.3 | Huawei, HiSilicon | revised |  | R5-223708 |
| R5-223011 | Addition of test tolerance analysis for 7.6.6.2 | Huawei, HiSilicon | revised |  | R5-223885 |
| R5-223012 | Addition of test tolerance analysis for 7.6.6.3 | Huawei, HiSilicon | revised |  | R5-223709 |
| R5-223013 | Addition of test applicability for eMIMO test cases | Huawei, HiSilicon | revised |  | R5-223706 |
| R5-223014 | Update applicability for Idle/Inactive measurements test cases | TDIA, CATT | withdrawn |  |  |
| R5-223015 | Update of NR V2X TC 12.1.3.3 | TDIA, CATT | revised |  | R5-223375 |
| R5-223016 | Addition of spectrum emission mask testing for UL MIMO with ULFPTx | Huawei, HiSilicon | revised |  | R5-223705 |
| R5-223017 | Update of test point analysis for MPR, SEM and NR ACLR for UL MIMO | Huawei, HiSilicon | agreed |  |  |
| R5-223018 | Update of Annex F for UL MIMO test cases | Huawei, HiSilicon | agreed |  |  |
| R5-223019 | Correction to Idle/Inactive measurements TC 8.1.5.11.5 | TDIA, CATT | withdrawn |  |  |
| R5-223020 | Correction to Idle/Inactive measurements TC 8.1.5.11.3 | TDIA, CATT | withdrawn |  |  |
| R5-223021 | Update of 5G-SRVCC TC 11.2.1 | MediaTek Inc. | revised |  | R5-223433 |
| R5-223022 | Addition of CA\_n1A-n8A into Refsens TC | China Unicom | agreed |  |  |
| R5-223023 | PRD21 CDS: PC3 for CA\_n29A-n71A, BCS1 CA\_n66A\_n71A | WE Certification Oy, DISH Network | reserved |  |  |
| R5-223024 | Update of FR1 RI reporting test cases | ROHDE & SCHWARZ | agreed |  |  |
| R5-223025 | Update of NR inter-band CA configurations in FR1 | China Unicom | agreed |  |  |
| R5-223026 | New WID on UE Conformance – NR RRM Enhancements | Apple Portugal | revised |  | R5-223329 |
| R5-223027 | Discussion on FR2 Enhanced Test Methods | Apple Portugal | revised |  | R5-223619 |
| R5-223028 | Draft internal Work Plan for FR2 Enhanced Test Methods | Apple Portugal | noted |  |  |
| R5-223029 | Introduce SRS IL for UE with NR TxD | Apple Portugal | revised |  | R5-223781 |
| R5-223030 | Implement test function approach to limit Pcell Power in FR2 UL-CA tests | Apple Portugal | revised |  | R5-223817 |
| R5-223031 | Addition of new test function to limit Pcell power | Apple Portugal | revised |  | R5-223802 |
| R5-223032 | Addition of new test function to limit Pcell power | Apple Portugal | revised |  | R5-223803 |
| R5-223033 | Add new messages and procedure for test function to limit Pcell Power | Apple Portugal | revised |  | R5-223796 |
| R5-223034 | FR2 Enhanced Beam Correspondence test updates | Apple Portugal | revised |  | R5-223750 |
| R5-223035 | Updates across REFSENS test cases to incorporate Rel.16 requirements | Apple Portugal | withdrawn |  |  |
| R5-223036 | 38.522 applicability updates for Rel.16 FR2 RF enhancements | Apple Portugal | revised |  | R5-223753 |
| R5-223037 | Discussion on FR2 Beam Correspondence test structure | Apple Portugal, Keysight | revised |  | R5-223632 |
| R5-223038 | Updates across Spherical Coverage test cases to incorporate Rel.16 requirements | Apple Portugal | revised |  | R5-223751 |
| R5-223039 | Correction to FR2 DL RMCs | Apple Portugal | revised |  | R5-223827 |
| R5-223040 | Inputs to RF AP#94e.22 | Apple Portugal | revised |  | R5-223641 |
| R5-223041 | Initial introduction of fast spherical coverage test method | Apple Portugal | revised |  | R5-223828 |
| R5-223042 | Initial introduction of RSRP-B based Rx Peak Beam Search | Apple Portugal | revised |  | R5-223829 |
| R5-223043 | Initial introduction of Enhanced EIRP measurement method | Apple Portugal | revised |  | R5-223830 |
| R5-223044 | Test case updates for mpr-PowerBoost-FR2-r16 feature | Apple Portugal | withdrawn |  |  |
| R5-223045 | Test case updates in Max Input Level FR2 CA tests | Apple Portugal | revised |  | R5-223752 |
| R5-223046 | Update of ICS baseline for CA configurations | China Unicom | agreed |  |  |
| R5-223047 | Update of Emergency Services TC 11.4.x | MediaTek Inc. | withdrawn |  |  |
| R5-223048 | Removal of duplicate clauses from the Demod spec | QUALCOMM Europe Inc. - Italy | agreed |  |  |
| R5-223049 | Addition of test case 6.3.3.2.4, 4Rx TDD FR1 Single PMI with 32Tx Type1 - SinglePanel codebook for both SA and NSA | Ericsson | agreed |  |  |
| R5-223050 | Update of test points analysis per CA configuration Table | China Unicom | agreed |  |  |
| R5-223051 | Proposing a new WI for inter-system mobility test cases between untrusted Non-3GPP and 3GPP system | China Telecommunications | revised |  | R5-223352 |
| R5-223052 | Update of NR MDT test case 8.1.6.1.4.5 | MediaTek Inc. | agreed |  |  |
| R5-223053 | New WID on UE Conformance - Inter-system Mobility between untrusted Non-3GPP and 3GPP system | China Telecommunications | withdrawn |  |  |
| R5-223054 | Correction to the description of condition C06 | Keysight Technologies UK Ltd | withdrawn |  |  |
| R5-223055 | NR FR1 TRP-TRS status update | ROHDE & SCHWARZ | noted |  |  |
| R5-223056 | Corrections to TC 8.40 | ROHDE & SCHWARZ | revised |  | R5-223475 |
| R5-223057 | Addition of 45M into TC 7.5 Adjacent channel selectivity | China Unicom | withdrawn |  |  |
| R5-223058 | Handling of FR2 Power Class 1 in RAN5 | NTT DOCOMO INC. | revised |  | R5-223621 |
| R5-223059 | Update of NR MDT test case 8.1.6.3.4.x | MediaTek Inc. | agreed |  |  |
| R5-223060 | Correction to Emergency Call test cases 11.4.x | Keysight Technologies UK Ltd, MCC TF160, Mediatek | revised |  | R5-223439 |
| R5-223061 | Addition of 6.5B.3.3.1 requirements for NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | agreed |  |  |
| R5-223062 | Modification of testcase 8.1.5.11.4 idle/inactive measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223404 |
| R5-223063 | Addition of Rel-17 NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | withdrawn |  |  |
| R5-223064 | Correction to NR V2X NAS TC 13.2.1-Conflict Layer 2 ID | Huawei, Hisilicon,MCC TF160 | agreed |  |  |
| R5-223065 | Correction to NR V2X NAS TC 13.2.2-link seurity mode | Huawei, Hisilicon,MCC TF160 | agreed |  |  |
| R5-223066 | Correction to NR V2X NAS TC 13.2.6-link keep alive | Huawei, Hisilicon,MCC TF160 | revised |  | R5-223376 |
| R5-223067 | Addition of test frequency for NR inter-band CA configurations including n1 | NTT DOCOMO INC. | agreed |  |  |
| R5-223068 | Correction of cell number in the test procedure of 8.1.3.1.15A | OPPO, ZEKU | revised |  | R5-223343 |
| R5-223069 | Correction of Equivalent PLMN ID in the test procedure of 9.1.5.1.2 | OPPO, ZEKU | revised |  | R5-223428 |
| R5-223070 | Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | revised |  | R5-223733 |
| R5-223071 | Update of NR MDT test case 8.1.6.3.2.x | MediaTek Inc. | revised |  | R5-223386 |
| R5-223072 | Introduction of test frequencies for CA\_n258G for protocol testing | Ericsson | agreed |  |  |
| R5-223073 | Revised WID on UE conformance test aspects for R16 NR mobility enhancements | Huawei, Hisilicon | endorsed |  |  |
| R5-223074 | TS 36.523-1 Tracker status before RAN5-95e | Huawei, Hisilicon | noted |  |  |
| R5-223075 | TS 38.523-1 Tracker status before RAN5-95e | Huawei, Hisilicon | noted |  |  |
| R5-223076 | TS 36.523-1 Tracker status after RAN5-95e | Huawei, Hisilicon | reserved |  |  |
| R5-223077 | TS 38.523-1 Tracker status after RAN5-95e | Huawei, Hisilicon | reserved |  |  |
| R5-223078 | Updates to IMS test case applicabilities | Ericsson | agreed |  |  |
| R5-223079 | Corrections to test case 7.4a | Ericsson | agreed |  |  |
| R5-223080 | Update to test case 7.4 | Ericsson | withdrawn |  |  |
| R5-223081 | Updates to Test procedure 4.9.15 | Ericsson | revised |  | R5-223413 |
| R5-223082 | Updates to Data-off condition for PDU SESSION ESTABLISHMENT REQUEST message | Ericsson | revised |  | R5-223415 |
| R5-223083 | Updates to test case 11.6.1 | Ericsson | revised |  | R5-223441 |
| R5-223084 | Corrections to usages of Annex A.6 of TS 34.229-5 | ROHDE & SCHWARZ | agreed |  |  |
| R5-223085 | Correction to NR RLC test case 7.1.2.3.7 | Keysight Technologies UK Ltd | agreed |  |  |
| R5-223086 | Update of NR MDT test case 8.1.6.1.2.12 | MediaTek Inc. | withdrawn |  |  |
| R5-223087 | Correction to SOR test case 6.3.1.10 | Keysight Technologies UK Ltd, Huawei, HiSilicon | revised |  | R5-223418 |
| R5-223088 | Correction to test case 6.3.2.2.4 and 6.3.3.2.3 | Ericsson | withdrawn |  |  |
| R5-223089 | Introduction of test frequencies for 2 band EN-DC configurations | Ericsson | withdrawn |  |  |
| R5-223090 | SR of Rel-17 NR MBS WI after RAN5 95e | Huawei, Hisilicon | withdrawn |  |  |
| R5-223091 | WP of Rel-17 NR MBS WI after RAN5 95e | Huawei, Hisilicon | withdrawn |  |  |
| R5-223092 | Add Default configuration for DCI format 4\_0 scheduling MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223093 | Add Default configuration for DCI format 4\_1 scheduling MBS Multicast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223094 | Add test procedures for MBS Multicast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223095 | Update MBS related parameters into PDU session establishment request | Huawei, Hisilicon | withdrawn |  |  |
| R5-223096 | Update MBS related parameters into PDU session establishment accept | Huawei, Hisilicon | withdrawn |  |  |
| R5-223097 | Update MBS related parameters into PDU session modification request | Huawei, Hisilicon | withdrawn |  |  |
| R5-223098 | Update MBS related parameters into PDU session modification command | Huawei, Hisilicon | withdrawn |  |  |
| R5-223099 | Add SI combination for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223100 | Add SIB20 for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223101 | Add SIB21 for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223102 | Add MBSBroadcastConfiguration for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223103 | Add MBSInterestIndication for MBS Broadcast test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223104 | Add MBS information elements for MBS test | Huawei, Hisilicon | withdrawn |  |  |
| R5-223105 | Add PICS for MBS test | Huawei, Hisilicon | agreed |  |  |
| R5-223106 | Introduction of UE capabilities for 2 band EN-DC configurations | Ericsson | revised |  | R5-223654 |
| R5-223107 | Correction in performance enhancement test cases 6.3.2.2.3, 6.3.2.2.4 and 6.3.3.2.3 | Ericsson | agreed |  |  |
| R5-223108 | SR UE Conformance Test Aspects for NR performance requirement enhancement RAN5#95e | China Telecom | reserved |  |  |
| R5-223109 | WP UE Conformance NR Coverage Enhancement RAN5#95e | China Telecom | available |  |  |
| R5-223110 | SR UE Conformance NR Coverage Enhancement RAN5#95e | China Telecom | available |  |  |
| R5-223111 | SR UE Conformance Aspects - Even further mobility enhancement in E-UTRAN RAN5#95e | China Telecom | available |  |  |
| R5-223112 | WP UE Conformance Aspects - Even further mobility enhancement in E-UTRAN RAN5#95e | China Telecom | available |  |  |
| R5-223113 | SR UE Conformance SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL RAN5#95e | China Telecom | available |  |  |
| R5-223114 | WP UE Conformance SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL RAN5#95e | China Telecom | available |  |  |
| R5-223115 | SR UE Conformance Rel-17 High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x=1,2) RAN5#95e | China Telecom | available |  |  |
| R5-223116 | WP UE Conformance Rel-17 High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x=1,2) RAN5#95e | China Telecom | available |  |  |
| R5-223117 | Revised WID on UE Conformance - NR coverage enhancements | China Telecom, Huawei, Hisilicon | endorsed |  |  |
| R5-223118 | Correction on test condition for FR2 DL 256QAM test cases | China Telecom | revised |  | R5-223845 |
| R5-223119 | Solving editor notes for Type I PMI test cases | China Telecom | agreed |  |  |
| R5-223120 | Solving editor notes for Type II PMI test cases | China Telecom | agreed |  |  |
| R5-223121 | New WID on UE Conformance – Further enhancement on NR demodulation performance | China Telecom, Qualcomm | revised |  | R5-223327 |
| R5-223122 | Addition of FR2 6.2D.3 for ULFPTx | Huawei, HiSilicon | agreed |  |  |
| R5-223123 | Test case 6.3.2.2.3, 6.3.2.2.4 and 6.3.3.2.3 in 38.522 | Ericsson | agreed |  |  |
| R5-223124 | Updating minimum requirement for 7.6A.3 OOB for CA testing | Huawei, Hisilicon | agreed |  |  |
| R5-223125 | Correction to NS\_27 in test case AMPR for MIMO | Huawei, Hisilicon | revised |  | R5-223699 |
| R5-223126 | Introducing band configuration DC\_20A\_n257A | Huawei, Hisilicon | agreed |  |  |
| R5-223127 | Introducing R17 band configuration DC\_20A\_n257A | Huawei, Hisilicon | agreed |  |  |
| R5-223128 | Discussion on R17 configuration DC\_20A\_n257A handling in RAN5 | Huawei, Hisilicon | revised |  | R5-223629 |
| R5-223129 | Updating RB allocation for CBW 45MHz | Huawei, Hisilicon | revised |  | R5-223729 |
| R5-223130 | Updating almost contiguous RB allocation for 45MHz CBW | Huawei, Hisilicon | agreed |  |  |
| R5-223131 | Updating AMPR test case for NS\_48 for CBW 45MHz | Huawei, Hisilicon | revised |  | R5-223730 |
| R5-223132 | Updating A-MPR and A-SE TP analysis for NS\_48 | Huawei, Hisilicon | revised |  | R5-223732 |
| R5-223133 | Updating Additional spurious emissions for NS\_48 for 45MHz CBW | Huawei, Hisilicon | agreed |  |  |
| R5-223134 | Updating test case 6.3.1 Minimum output power for CBW 45MHz | Huawei, Hisilicon | agreed |  |  |
| R5-223135 | Updating transmit ON\_OFF time mask test case for 45MHz CBW | Huawei, Hisilicon | agreed |  |  |
| R5-223136 | Updating test case 7.4 Maximum input level for new Rel-17 CBWs | Huawei, Hisilicon | agreed |  |  |
| R5-223137 | Updating 6.3D.1 Minimum output power for UL MIMO for 45MHz CBW | Huawei, Hisilicon | agreed |  |  |
| R5-223138 | Updating transmit ON\_OFF time mask for MIMO test case for 45MHz CBW | Huawei, Hisilicon | agreed |  |  |
| R5-223139 | Correction to 6.2.3 A-MPR PC2 NS\_04 test requirements for band n41 | Huawei, Hisilicon | withdrawn |  |  |
| R5-223140 | Correction to Test Channel Bandwidths for FR1 CA | Huawei, Hisilicon | revised |  | R5-223810 |
| R5-223141 | Editorial correction to test requirement of Aggregate power tolerance for UL MIMO | Huawei, Hisilicon | revised |  | R5-223811 |
| R5-223142 | Editorial correction to test requirement of FR2 test cases | Huawei, Hisilicon | withdrawn |  | - |
| R5-223143 | WP of New Rel-17 NR licensed bands and extension of existing NR bands | Huawei, Hisilicon | reserved |  |  |
| R5-223144 | SR of New Rel-17 NR licensed bands and extension of existing NR bands | Huawei, Hisilicon | reserved |  |  |
| R5-223145 | WP of Rel-17 NR CA and DC; and NR and LTE DC Configurations | Huawei, Hisilicon | reserved |  |  |
| R5-223146 | SR of Rel-17 NR CA and DC; and NR and LTE DC Configurations | Huawei, Hisilicon | reserved |  |  |
| R5-223147 | WP of Additional NR bands for UL-MIMO in Rel-17 | Huawei, Hisilicon | reserved |  |  |
| R5-223148 | SR of Additional NR bands for UL-MIMO in Rel-17 | Huawei, Hisilicon | reserved |  |  |
| R5-223149 | WP of FR2 FWA UE with maximum TRP of 23dBm for band n257 and n258 | Huawei, Hisilicon | reserved |  |  |
| R5-223150 | SR of FR2 FWA UE with maximum TRP of 23dBm for band n257 and n258 | Huawei, Hisilicon | reserved |  |  |
| R5-223151 | PRD21 CDS: Rel-17 EN-DC configuration DC\_20A\_N257A | Huawei, Hisilicon | available |  |  |
| R5-223152 | WP for HPUE\_PC1\_5\_n77\_n78-UEConTest for RAN5#95-e | Verizon Switzerland AG | reserved |  |  |
| R5-223153 | Solve duplicated information in Annex | Ericsson | agreed |  |  |
| R5-223154 | New WID on UE Conformance – Solutions for NR to support non-terrestrial networks (NTN) | QUALCOMM Europe Inc. - Italy | revised |  | R5-223328 |
| R5-223155 | Revised WID on UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78 | Verizon Switzerland AG | revised |  | R5-223303 |
| R5-223156 | Introduction of test frequencies for 3 band EN-DC configurations | Ericsson | revised |  | R5-223649 |
| R5-223157 | Introduction of UE capabilities for additional Rel-17 EN-DC configurations with PC2 band | Verizon Switzerland AG | agreed |  |  |
| R5-223158 | Editorial update IE ServCellIndex | Ericsson | agreed |  |  |
| R5-223159 | Update TC 6.5.3.3 Additional spurious emissions for PC2 n39 | CMCC | agreed |  |  |
| R5-223160 | Update TC 6.2.3 UE additional maximum output power reduction for PC2 n39 | CMCC | withdrawn |  |  |
| R5-223161 | Update applicability for PC2 n34 test cases | CMCC | withdrawn |  |  |
| R5-223162 | Update applicability for PC2 n39 test cases | CMCC | withdrawn |  |  |
| R5-223163 | Addition of PICS for TxD | CMCC | revised |  | R5-223772 |
| R5-223164 | Introduction of UE capabilities for 3 band EN-DC configurations | Ericsson | agreed |  |  |
| R5-223165 | RAN5 5G NR Test Tolerance review discussion | Ericsson | revised |  | R5-223601 |
| R5-223166 | FR2 RRM test cases: Known Issue List | Ericsson | revised |  | R5-223624 |
| R5-223167 | FR2 RRM test cases: Known Issue List - after RAN5\_95e | Ericsson | revised |  | R5-223625 |
| R5-223168 | Further discussion on large UE gain range | Ericsson | revised |  | R5-223628 |
| R5-223169 | Correction of RRM test case 7.7.1.1 | Ericsson | revised |  | R5-223862 |
| R5-223170 | Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2 | Ericsson | revised |  | R5-223866 |
| R5-223171 | Test Tolerances for DL Interruptions at switching between two uplink carriers test cases | Ericsson | revised |  | R5-223877 |
| R5-223172 | Correction of UL switching test case 6.5.7.1 including Test Tolerance | Ericsson | revised |  | R5-223878 |
| R5-223173 | Correction of UL switching test case 6.5.7.2 including Test Tolerance | Ericsson | revised |  | R5-223879 |
| R5-223174 | Addition of Test Tolerance for UL switching test cases in Annex F of TS 38.533 | Ericsson | revised |  | R5-223876 |
| R5-223175 | Test Tolerances for E-UTRAN intra-frequency Conditional Handover test cases | Ericsson | agreed |  |  |
| R5-223176 | Test Tolerances for E-UTRAN inter-frequency Conditional Handover test cases | Ericsson | agreed |  |  |
| R5-223177 | Correction of Intra frequency conditional handover Test Case 5.1.47 including Test Tolerance | Ericsson | agreed |  |  |
| R5-223178 | Correction of Intra frequency conditional handover Test Case 5.1.48 including Test Tolerance | Ericsson | agreed |  |  |
| R5-223179 | Correction of Inter frequency conditional handover Test Case 5.1.49 including Test Tolerance | Ericsson | agreed |  |  |
| R5-223180 | Correction of Inter frequency conditional handover Test Case 5.1.50 including Test Tolerance | Ericsson | revised |  | R5-223702 |
| R5-223181 | Correction of Inter frequency conditional handover Test Case 5.1.51 including Test Tolerance | Ericsson | agreed |  |  |
| R5-223182 | Correction of Inter frequency conditional handover Test Case 5.1.52 including Test Tolerance | Ericsson | agreed |  |  |
| R5-223183 | Addition of LTE RRM CHO test cases Test Tolerance into Annex F | Ericsson | agreed |  |  |
| R5-223184 | Addition of Condition for FR1 DL Interruptions test cases applicability | Ericsson | withdrawn |  | - |
| R5-223185 | Removal of redundant condition for FR1 DL Interruptions test cases applicability | Ericsson | withdrawn |  | - |
| R5-223186 | Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases | Ericsson | revised |  | R5-223609 |
| R5-223187 | Addition of 6 DL CA Event Triggered Reporting on Deactivated SCell test case 8.16.96 | Ericsson | revised |  | R5-223648 |
| R5-223188 | Addition of 6 DL CA Activation and Deactivation of Known SCell Test Case 8.16.97 | Ericsson | agreed |  |  |
| R5-223189 | Addition of 6 DL CA Activation and Deactivation of Unknown SCell Test Case 8.16.98 | Ericsson | agreed |  |  |
| R5-223190 | Addition of 7 DL CA Event Triggered Reporting on Deactivated SCell Test Case 8.16.100 | Ericsson | agreed |  |  |
| R5-223191 | Addition of 7 DL CA Activation and Deactivation of Known SCell Test Case 8.16.101 | Ericsson | agreed |  |  |
| R5-223192 | Addition of 7 DL CA Activation and Deactivation of Unknown SCell Test Case 8.16.102 | Ericsson | agreed |  |  |
| R5-223193 | Correction of minimum conformance requirements for RRM 3CC, 4CC and 5CC test cases | Ericsson | agreed |  |  |
| R5-223194 | Applicability of 6DL and 7DL CA RRM test cases | Ericsson | agreed |  |  |
| R5-223195 | Correction of applicabilty for sTTI test cases | Huawei, HiSilicon | agreed |  |  |
| R5-223196 | Introduction of test frequencies for additional Rel-16 NR CA DC and EN-DC inter-band configurations | Verizon Switzerland AG | revised |  | R5-223650 |
| R5-223197 | Introduction of test frequencies for additional Rel-17 NR CA and EN-DC inter-band configurations | Verizon Switzerland AG | agreed |  |  |
| R5-223198 | Addition of redcap requirement into sub-clause 7.1 and 7.2 | China Unicom | agreed |  |  |
| R5-223199 | Discussion on mandatory channel bandwidths after Rel-15 | Keysight technologies UK Ltd | revised |  | R5-223626 |
| R5-223200 | Corrections on mandatory channel bandwidths after Rel-15 | Keysight technologies UK Ltd | revised |  | R5-223480 |
| R5-223201 | LS on Channel bandwidths exemptions | Keysight technologies UK Ltd | withdrawn |  |  |
| R5-223202 | Modification of testcase 8.1.5.11.5 idle/inactive measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223405 |
| R5-223203 | PRD21 CDS: PC3 EN-DC DC\_1A\_n5A | Ericsson | available |  |  |
| R5-223204 | PRD21 CDS: PC3 EN-DC DC\_1A\_n7A | Ericsson | available |  |  |
| R5-223205 | PRD21 CDS: PC3 EN-DC DC\_3A\_n5A | Ericsson | available |  |  |
| R5-223206 | PRD21 CDS: PC3 EN-DC DC\_7A\_n5A | Ericsson | available |  |  |
| R5-223207 | PRD21 CDS: PC3 EN-DC DC\_28A\_n7A | Ericsson | available |  |  |
| R5-223208 | PRD21 CDS: PC3 EN-DC DC\_7A\_n5A-n78A | Ericsson | available |  |  |
| R5-223209 | PRD21 CDS: PC3 EN-DC DC\_7C\_n5A-n78A | Ericsson | available |  |  |
| R5-223210 | PRD21 CDS: PC3 EN-DC DC\_7C\_n28A-n78A | Ericsson | available |  |  |
| R5-223211 | PRD21 CDS: PC3 EN-DC DC\_28A\_n7A-n78A | Ericsson | available |  |  |
| R5-223212 | Introduction of UE capabilities for additional Rel-17 NR CA and EN-DC configurations | Verizon Switzerland AG | agreed |  |  |
| R5-223213 | Correction to eCall test cases 13.3.1.2, 13.3.1.3, 13.3.1.4, 13.3.1.5, 13.3.1.6, 13.3.1.7 and 13.3.1.10 | Qualcomm Incorporated, CETECOM GmbH | revised |  | R5-223451 |
| R5-223214 | Editorial correction to 5G RRM TCs | Bureau Veritas | agreed |  |  |
| R5-223215 | General updates of clause 5 for additional Rel-16 CA configurations | Verizon Switzerland AG | withdrawn |  |  |
| R5-223216 | Update\_TP\_analysis for AMPR NS\_27 | Samsung | revised |  | R5-223696 |
| R5-223217 | Discussion on improvements of permitted test methods | Keysight technologies UK Ltd | revised |  | R5-223644 |
| R5-223218 | Update test configuration table for NS\_27 of A-MPR | Samsung, Google | revised |  | R5-223693 |
| R5-223219 | Addition to 3.3 for new abbreviations in TS 38.522 | ZTE Corporation | revised |  | R5-223846 |
| R5-223220 | Addition to clauses 3 and 4 for the definitions and abbreviations for Redcap | ZTE Corporation | withdrawn |  |  |
| R5-223221 | Correction to 4.0 on Tested CA DC configuration selection criteria for E005a, E010 and E010a | ZTE Corporation | revised |  | R5-223847 |
| R5-223222 | Correction to 4.3.1.1.2.1 on test frequencies for NR inter-band CA configurations in FR1 with two bands | ZTE Corporation | agreed |  |  |
| R5-223223 | Correction to 4.3.1.1.2.2 on test frequencies for NR inter-band CA configurations in FR1 with three bands | ZTE Corporation | agreed |  |  |
| R5-223224 | Correction to 4.3.1.1.5.66 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n66 with class 2A | ZTE Corporation | agreed |  |  |
| R5-223225 | Correction to 4.3.1.1.5.71 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n71 with class 2A | ZTE Corporation | agreed |  |  |
| R5-223226 | Correction to 4.3.1.1.5.77 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n77 with class 2A | ZTE Corporation, Keysight Technologies | revised |  | R5-223651 |
| R5-223227 | Correction to 4.3.1.1.5.78 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n78 with class 2A | ZTE Corporation | revised |  | R5-223652 |
| R5-223228 | Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R16 configurations | ZTE Corporation | revised |  | R5-223653 |
| R5-223229 | Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R17 configurations with three bands | ZTE Corporation | agreed |  |  |
| R5-223230 | Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE | ZTE Corporation | revised |  | R5-223818 |
| R5-223231 | Correction to 6.2B.1.3 for UE capability IE for inter-band EN-DC UE maximum output power | ZTE Corporation | agreed |  |  |
| R5-223232 | Correction to A.2.3 and A.3.3 for UL and DL RMCs | ZTE Corporation, Anritsu | revised |  | R5-223831 |
| R5-223233 | Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities | ZTE Corporation | revised |  | R5-223798 |
| R5-223234 | Editorial correction to 4.3.1.2.2 on test frequencies for NR inter-band CA configurations in FR2 for CA\_n260-n261 | ZTE Corporation | agreed |  |  |
| R5-223235 | Editorial correction to A.4.0 for Tested bands selection criteria | ZTE Corporation | revised |  | R5-223848 |
| R5-223236 | Editorial correction to A.4.3.1 for RF baseline implementation capabilities | ZTE Corporation | revised |  | R5-223799 |
| R5-223237 | Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability | ZTE Corporation | revised |  | R5-223800 |
| R5-223238 | Update 6.2.3 for additional maximum power reduction | ZTE Corporation | revised |  | R5-223812 |
| R5-223239 | Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies | ZTE Corporation | revised |  | R5-223801 |
| R5-223240 | Introduction of test specifications for additional Rel-16 CA combos to Clause 6 | Verizon Switzerland AG | revised |  | R5-223655 |
| R5-223241 | Correction to LTE RACS test case 8.5.5.1 | Qualcomm Incorporated, MCC TF160 | revised |  | R5-223445 |
| R5-223242 | Correction to Release of Applicability for TC7.1.3 and TC7.1.4 | Google Inc. | revised |  | R5-223869 |
| R5-223243 | Update to EIEI test case 11.3.1 | Qualcomm Incorporated, CETECOM GmbH | revised |  | R5-223446 |
| R5-223244 | Add delta TIBc for inter-band DC\_28A\_n7A-n78A | Ericsson | revised |  | R5-223674 |
| R5-223245 | Add delta RIBc for inter-band DC\_28A\_n7A-n78A | Ericsson | agreed |  |  |
| R5-223246 | Correction to Annexes for RRM SCell activation test cases | Bureau Veritas | agreed |  | - |
| R5-223247 | Modification of testcase 8.1.5.11.6 idle/inactive measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223406 |
| R5-223248 | Update Rx Requirements for additional Rel-16 CA combos | Verizon Switzerland AG, Apple | withdrawn |  |  |
| R5-223249 | Update to NR EIEI test cases 11.5.1, 11.5.2, 11.5.5 | Qualcomm Incorporated, CETECOM GmbH | agreed |  |  |
| R5-223250 | Hardcoding USIM configurations | Qualcomm India Pvt Ltd | agreed |  |  |
| R5-223251 | Update additional Rel-17 band combination information in Clause 5 | Verizon Switzerland AG | withdrawn |  |  |
| R5-223252 | Correction of USIM configuration in RACS test case 9.1.9.4 | Qualcomm India Pvt Ltd | agreed |  |  |
| R5-223253 | Correction pc\_dynamicPowerSharing to align with 38.306 | Google Inc. | agreed |  |  |
| R5-223254 | Update of applicability of FR2 RF test cases | ROHDE & SCHWARZ | revised |  | R5-223849 |
| R5-223255 | Applicability updates to NR EIEI test cases | Qualcomm India Pvt Ltd | agreed |  |  |
| R5-223256 | Modification of idle/inactive testcase applicabilities | Nokia, Nokia Shanghai Bell | revised |  | R5-223409 |
| R5-223257 | Addition of new NR EIEI test case 8.1.4.1.10 | Qualcomm India Pvt Ltd | revised |  | R5-223392 |
| R5-223258 | Correction of FR2 MOP and beam correspondence test cases | ROHDE & SCHWARZ | agreed |  |  |
| R5-223259 | SR of LTE-NR & NR-NR Dual Connectivity and NR CA enhancements for RAN\_WG5\_95e | Nokia, Nokia Shanghai Bell | available |  |  |
| R5-223260 | Addition of NR EIEI test case 11.5.6 | Qualcomm India Pvt Ltd | revised |  | R5-223393 |
| R5-223261 | Discussion paper on RRC DL segmentation test method | MediaTek | noted |  |  |
| R5-223262 | WP for LTE-NR & NR-NR Dual Connectivity and NR CA enhancements for RAN\_WG\_95e | Nokia, Nokia Shanghai Bell | available |  |  |
| R5-223263 | Addition of NR EIEI test case 11.5.7 | Qualcomm India Pvt Ltd | revised |  | R5-223394 |
| R5-223264 | Update of test case 8.1.6.1.1.2 | MediaTek | agreed |  |  |
| R5-223265 | Addition of NR EIEI test case 11.5.9 | Qualcomm India Pvt Ltd | revised |  | R5-223395 |
| R5-223266 | Correction to session timer for USSD TCs | Qualcomm Incorporated | withdrawn |  |  |
| R5-223267 | Addition of NR EIEI test case 11.5.10 | Qualcomm India Pvt Ltd | revised |  | R5-223396 |
| R5-223268 | Addition of NR EIEI test case 11.5.11 | Qualcomm India Pvt Ltd | revised |  | R5-223397 |
| R5-223269 | Addition of PICS for CLI | Qualcomm Austria RFFE GmbH | withdrawn |  |  |
| R5-223270 | Addition of NR EIEI test case 11.5.13 | Qualcomm India Pvt Ltd | revised |  | R5-223398 |
| R5-223271 | EIRP-based test metric for FR2 SEM verifications | Apple Portugal | revised |  | R5-223622 |
| R5-223272 | Change FR2 SEM verification test metric | Apple Portugal | revised |  | R5-223640 |
| R5-223273 | Update of test case TC 8.1.6.2.3 | MediaTek | agreed |  |  |
| R5-223274 | Update to test case 8.1.6.1.3.6 | MediaTek | agreed |  |  |
| R5-223275 | Update of FR2 CQI CA test cases | ROHDE & SCHWARZ | agreed |  |  |
| R5-223276 | Correction to test procedure 4.9.11 | Qualcomm Incorporated, ROHDE & SCHWARZ | withdrawn |  | - |
| R5-223277 | Clarification on Adjacent channel selectivity | Apple Hungary Kft. | revised |  | R5-223822 |
| R5-223278 | Discussion on testability aspects for new test function to limit Pcell power | Keysight technologies UK Ltd | revised |  | R5-223646 |
| R5-223279 | Correction to NR5GC CAG testcase 6.5.2.2 | ROHDE & SCHWARZ, MediaTek | revised |  | R5-223353 |
| R5-223280 | Clarification on Configured transmitted power | Apple Hungary Kft. | revised |  | R5-223819 |
| R5-223281 | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | Qualcomm Finland RFFE Oy | withdrawn |  |  |
| R5-223282 | Modification of testcase 8.1.5.11.1 idle/inactive measurements | Nokia, Nokia Shanghai Bell | revised |  | R5-223407 |
| R5-223283 | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | QUALCOMM JAPAN LLC. | revised |  | R5-223820 |
| R5-223284 | Clarification on In-band blocking | Apple Hungary Kft. | revised |  | R5-223823 |
| R5-223285 | Clarification on mpr-PowerBoost-FR2-r16 | Apple Hungary Kft. | revised |  | R5-223639 |
| R5-223286 | Clarification on UE Channel bandwidth per operating band for CA | Apple Hungary Kft. | revised |  | R5-223832 |
| R5-223287 | On improvements of current test methodologies | ROHDE & SCHWARZ | withdrawn |  |  |
| R5-223288 | Update for TC 10.9 | MediaTek | withdrawn |  | - |
| R5-223289 | Agenda - opening session | WG Chairman | approved | R5-222050 | - |
| R5-223290 | Modification of SIB1 in common environment for idle/inactive measurements | Nokia, Nokia Shanghai Bell | revised | - | R5-223400 |
| R5-223291 | Update for 6.3.3.1 General clause of Tx ON-OFF time mask | Qualcomm Israel Ltd. | revised | - | R5-223873 |
| R5-223292 | Editorial correction to test requirement of FR2 test cases | Huawei, Hisilicon | revised | - | R5-223821 |
| R5-223293 | Update of 5GS IMS test case 10.15 | ZTE Corporation | agreed | - | - |
| R5-223294 | Update Annex E and F for feMob test cases | ZTE Corporation | agreed | - | - |
| R5-223295 | WP UE Conformance Test Aspects – Rel14 Enhanced Full Dimension MIMO for LTE | Ericsson | reserved | - | - |
| R5-223296 | SR UE Conformance Test Aspects – Rel14 Enhanced Full Dimension MIMO for LTE | Ericsson | reserved | - | - |
| R5-223297 | SR UE Conformance - Multi-SIM devices for LTE/NR | China Telecommunications | available | - | - |
| R5-223298 | SR UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78 | Verizon Switzerland AG | reserved | - | - |
| R5-223299 | Introduction of Allowed reference sensitivity relaxation for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | revised | - | R5-223675 |
| R5-223300 | New method for preventing SCell drop in RAN5 FR2 UL CA test cases | Ericsson | revised | - | R5-223633 |
| R5-223301 | Removal of redundant condition for FR1 DL Interruptions test cases applicability | Ericsson | agreed | - | - |
| R5-223302 | Correction of FR1 DL Interruptions test cases applicability | Ericsson | revised | - | R5-223701 |
| R5-223303 | Revised WID on UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78 | Verizon Switzerland AG | endorsed | R5-223155 | - |
| R5-223304 | Revised WID on UE Conformance Test Aspects - High power UE (power class 2) for NR band n34 | CMCC | endorsed | - | - |
| R5-223305 | Update to eMIMO test cases 4.5.5.5 and 4.5.5.6 | Sporton, Huawei, HiSilicon | agreed | - | - |
| R5-223306 | Update to default INVITE in A.2.1 for checking the absence of geolocation information | MCC TF160 | agreed | - | - |
| R5-223307 | UE Conformance - Multi-SIM devices for LTE/NR | China Telecom | endorsed | - | - |
| R5-223308 | MCC TF160 Status Report | MCC TF160 | approved | R5-222361 | - |
| R5-223309 | New WID on UE Conformance - NR Sidelink Relay | CATT, China Telecom | endorsed | R5-222171 | - |
| R5-223310 | New WID on UE Conformance - NR sidelink enhancement | CATT, Huawei | endorsed | R5-222172 | - |
| R5-223311 | New WID on UE Conformance - High power UE (power class 2) for one NR FDD band | China Unicom | endorsed | R5-222176 | - |
| R5-223312 | New WID on UE Conformance - 4Rx support for NR band n8 | China Unicom | endorsed | R5-222177 | - |
| R5-223313 | New WID on UE Conformance - Enhanced NR support for high speed train scenario for frequency range 1 (FR1) | CMCC | endorsed | R5-222215 | - |
| R5-223314 | New WID on Enhanced Industrial Internet of Things (IoT) and ultra-reliable and low latency communication (URLLC) support for NR | Nokia, Nokia Shanghai Bell | endorsed | R5-222347 | - |
| R5-223315 | New WID - UE Conformance - enhancement of RAN slicing for NR | CMCC | endorsed | R5-222451 | - |
| R5-223316 | New WID on UE Conformance – UE power saving enhancements for NR | MediaTek Inc., Qualcomm | endorsed | R5-222510 | - |
| R5-223317 | New WID on UE Conformance - Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC) | Apple Portugal, ROHDE & SCHWARZ, Vivo | endorsed | R5-222558 | - |
| R5-223318 | New WID on UE Conformance – NR small data transmissions in INACTIVE state | Qualcomm CDMA Technologies | endorsed | R5-222563 | - |
| R5-223319 | New WID on UE Conformance - NR Uplink Data Compression (UDC) | CATT | endorsed | R5-222654 | - |
| R5-223320 | New WID on UE Conformance – Enhanced Private Network Support for NG-RAN including CT aspects | China Telecom Corporation Ltd. | endorsed | R5-222717 | - |
| R5-223321 | New WID on UE Conformance- Introduction of DL 1024 QAM for NR Frequency Range 1 (FR1) | QUALCOMM Europe Inc. - Italy | endorsed | R5-222744 | - |
| R5-223322 | New WID on UE Conformance - Further enhancements on MIMO for NR | Samsung, Huawei, Hisilicon | endorsed | R5-222750 | - |
| R5-223323 | New WID on UE Conformance - NR support for high speed train scenario in frequency range 2 (FR2) | Samsung | endorsed | R5-222751 | - |
| R5-223324 | New WID on: UE Conformance Test Aspects - Introduction of upper 700MHz A block E-UTRA band for the US (band 103) | Puloli | endorsed | R5-222874 | - |
| R5-223325 | New WID on UE Conformance – RF requirements enhancements for NR frequency range 1 (FR1) | Huawei, China Telecom, CMCC, China Unicom | endorsed | R5-222907 | - |
| R5-223326 | New WID on UE Conformance - NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) including EPS aspects | MediaTek Inc. | endorsed | R5-222938 | - |
| R5-223327 | New WID on UE Conformance – Further enhancement on NR demodulation performance | China Telecom, Qualcomm | endorsed | R5-223121 | - |
| R5-223328 | New WID on UE Conformance – Solutions for NR to support non-terrestrial networks (NTN) | QUALCOMM Europe Inc. - Italy | endorsed | R5-223154 | - |
| R5-223329 | New WID on UE Conformance – NR RRM Enhancements | Apple Portugal | endorsed | R5-223026 | - |
| R5-223330 | Inclusive language review for TS 36.523-3 | MCC TF160 | not pursued | R5-222387 | - |
| R5-223331 | Reply LS on NGMN Testing Framework for 5G Device Network Slicing Pre-Commercial Trials | TSG WG RAN5 | for email approval | - | - |
| R5-223332 | LS on video call upgrade when preconditions are not used | TSG WG RAN5 | approved | - | - |
| R5-223333 | Update to call control test case 7.21 | Qualcomm Incorporated | revised | - | R5-223476 |
| R5-223334 | GCF 3GPP TCL after GCF CAG#70 | Ericsson | noted | R5-222242 | - |
| R5-223335 | Meeting schedule for 2022-23 | WG Chairman | noted | R5-222061 | - |
| R5-223336 | Guideline for handling PRD21 CDS documents at RAN5#95-e | Ericsson | noted | R5-222123 | - |
| R5-223337 | Discussion on handling of pending configurations in Section 5 of TS 38.521-1, -2, -3 | CMCC, BV, Ericsson | noted | R5-222871 | - |
| R5-223338 | Discussion on handling of different types of configurations among WIs | CMCC, Huawei, Hisilicon, Ericsson | noted | R5-222872 | - |
| R5-223339 | Correction to IMS 5GS TC 7.22 and 7.23 | Qualcomm Incorporated | withdrawn | R5-222551 | - |
| R5-223340 | Editorial Correction to NR Test case 8.1.4.4.3 | ANRITSU LTD | agreed | R5-222417 | - |
| R5-223341 | Update of Test procedure for IMS MO Emergency call release | ZTE Corporation | agreed | R5-222989 | - |
| R5-223342 | Update to SRVCC from 5G to 3G test case 8.1.3.2.6 and 8.1.3.2.7 | CATT, TDIA | agreed | R5-222179 | - |
| R5-223343 | Correction of cell number in the test procedure of 8.1.3.1.15A | OPPO, ZEKU | agreed | R5-223068 | - |
| R5-223344 | Update of test case 8.2.1.1.2 for UE capability transfer in NE-DC | CMCC | agreed | R5-222469 | - |
| R5-223345 | Update of test case 8.2.3.6.2 for Intra-frequency measurements Event A3 in NE-DC | CMCC | agreed | R5-222466 | - |
| R5-223346 | Update of test case 8.2.3.6.2a for Inter-frequency measurements Event A3 in NE-DC | CMCC | agreed | R5-222467 | - |
| R5-223347 | Update of test case 8.2.3.6.2b for Inter-band measurements Event A3 in NE-DC | CMCC | agreed | R5-222468 | - |
| R5-223348 | Update of applicability statement for test cases for NE-DC RRC | CMCC | agreed | R5-222465 | - |
| R5-223349 | Corrections to TC 7.25 precondition | Google Inc. | agreed | R5-222425 | - |
| R5-223350 | Correction to emergency services test case 11.4.4 | Qualcomm Incorporated, ROHDE & SCHWARZ | agreed | - | - |
| R5-223351 | Discussion paper for Rel-15 NR Tests Applicability on SNPN Only UE | Qualcomm CDMA Technologies | noted | R5-222257 | - |
| R5-223352 | Proposing a new WI for inter-system mobility test cases between untrusted Non-3GPP and 3GPP system | China Telecommunications | noted | R5-223051 | - |
| R5-223353 | Correction to NR5GC CAG testcase 6.5.2.2 | ROHDE & SCHWARZ, MediaTek | withdrawn | R5-223279 | - |
| R5-223354 | Correction to Radio reference configurations for RedCap test | Huawei,Hisilicon | withdrawn | R5-222652 | - |
| R5-223355 | Discussion paper on IMS Data Channel test | Huawei, Hisilicon | noted | R5-222805 | - |
| R5-223356 | New WID for IMS Data Channel test | Huawei, Hisilicon | noted | R5-222806 | - |
| R5-223357 | Correction to LTE TC 8.2.4.31.4-Conditional handover | Huawei, Hisilicon | agreed | R5-222788 | - |
| R5-223358 | Correction to NR testcase 8.1.4.4.4 | ROHDE & SCHWARZ, Anritsu Ltd | agreed | R5-222445 | - |
| R5-223359 | Addition of test frequency for NR SL concurrent | Huawei,Hisilicon | agreed | R5-222641 | - |
| R5-223360 | Correction to default configuration of SCI | Huawei,Hisilicon | agreed | R5-222642 | - |
| R5-223361 | Correction to sidelink IE SL-BWP-PoolConfig | Huawei,Hisilicon | agreed | R5-222643 | - |
| R5-223362 | Correction to sidelink IE SL-BWP-PoolConfigCommon | Huawei,Hisilicon | agreed | R5-222644 | - |
| R5-223363 | Correction to sidelink IE SL-FreqConfig | Huawei,Hisilicon | agreed | R5-222645 | - |
| R5-223364 | Correction to sidelink IE SL-FreqConfigCommon | Huawei,Hisilicon | agreed | R5-222646 | - |
| R5-223365 | Correction to test procedures for unicast link establishment | Huawei,Hisilicon | agreed | R5-222648 | - |
| R5-223366 | Update of TC 12.1.3.1- PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration | TDIA, CATT | agreed | R5-222711 | - |
| R5-223367 | Update of TC 12.1.5.1- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | agreed | R5-222712 | - |
| R5-223368 | Update of TC 12.1.5.2- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | agreed | R5-222713 | - |
| R5-223369 | Update of TC 12.2.1.6- Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception | TDIA, CATT | agreed | R5-222714 | - |
| R5-223370 | Update of TC 12.2.5.3- Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting | TDIA, CATT | agreed | R5-222716 | - |
| R5-223371 | Addition of new NR V2X test case 12.1.4.1 | Lenovo | agreed | R5-222943 | - |
| R5-223372 | Addition of new NR V2X test case 13.2.3 | Lenovo | agreed | R5-222944 | - |
| R5-223373 | Addition of new NR V2X test case 13.2.4 | Lenovo | agreed | R5-222945 | - |
| R5-223374 | Addition of new NR V2X test case 12.1.4.2 | Lenovo | agreed | R5-222956 | - |
| R5-223375 | Update of NR V2X TC 12.1.3.3 | TDIA, CATT | agreed | R5-223015 | - |
| R5-223376 | Correction to NR V2X NAS TC 13.2.6-link keep alive | Huawei, Hisilicon,MCC TF160 | agreed | R5-223066 | - |
| R5-223377 | Addition of applicability of new NR V2X test cases | Lenovo | agreed | R5-222946 | - |
| R5-223378 | 5G V2X: Test Model updates | MCC TF160 | agreed | R5-222378 | - |
| R5-223379 | Addition of new NR5G NPN TC 6.5.2.3 | Qualcomm CDMA Technologies | agreed | R5-222263 | - |
| R5-223380 | Addition of new NR5GC CAG testcase 6.5.2.6 | ROHDE & SCHWARZ | agreed | R5-222471 | - |
| R5-223381 | Correction to NR5GC CAG testcase 6.5.2.1 | ROHDE & SCHWARZ, MediaTek | agreed | R5-222550 | - |
| R5-223382 | Update of NR5G NPN TC 6.5.2.2 and 6.5.2.4 | MediaTek Inc. | agreed | R5-222937 | - |
| R5-223383 | Addition of Applicability of new SNPN test case | Lenovo | agreed | R5-222949 | - |
| R5-223384 | Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases | NIST | agreed | R5-222163 | - |
| R5-223385 | Correction to NR MDT test case 8.1.6.1.4.8 | Qualcomm CDMA Technologies, Keysight Technologies UK | agreed | R5-222278 | - |
| R5-223386 | Update of NR MDT test case 8.1.6.3.2.x | MediaTek Inc. | agreed | R5-223071 | - |
| R5-223387 | Addition of scheduling information for positioning system information blocks | CATT | agreed | R5-222610 | - |
| R5-223388 | Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer | CATT | agreed | R5-222605 | - |
| R5-223389 | Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset | CATT | agreed | R5-222606 | - |
| R5-223390 | Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer | CATT | agreed | R5-222607 | - |
| R5-223391 | Addition of test applicabilities for positioning SI messages offset test case | CATT | agreed | R5-222609 | - |
| R5-223392 | Addition of new NR EIEI test case 8.1.4.1.10 | Qualcomm India Pvt Ltd | agreed | R5-223257 | - |
| R5-223393 | Addition of NR EIEI test case 11.5.6 | Qualcomm India Pvt Ltd | agreed | R5-223260 | - |
| R5-223394 | Addition of NR EIEI test case 11.5.7 | Qualcomm India Pvt Ltd | agreed | R5-223263 | - |
| R5-223395 | Addition of NR EIEI test case 11.5.9 | Qualcomm India Pvt Ltd | agreed | R5-223265 | - |
| R5-223396 | Addition of NR EIEI test case 11.5.10 | Qualcomm India Pvt Ltd | agreed | R5-223267 | - |
| R5-223397 | Addition of NR EIEI test case 11.5.11 | Qualcomm India Pvt Ltd | agreed | R5-223268 | - |
| R5-223398 | Addition of NR EIEI test case 11.5.13 | Qualcomm India Pvt Ltd | agreed | R5-223270 | - |
| R5-223399 | Addition of SIB11 to common environment for early measurements | Nokia, Nokia Shanghai Bell | agreed | R5-222132 | - |
| R5-223400 | Modification of SIB1 in common environment for idle/inactive measurements | Nokia, Nokia Shanghai Bell | agreed | R5-223290 | - |
| R5-223401 | Addition of Measurement Capabilities for Idle/Inactive measurements testcase | TDIA, CATT | agreed | R5-222996 | - |
| R5-223402 | Modification of testcase 8.1.5.11.2 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | agreed | R5-222656 | - |
| R5-223403 | Modification of testcase 8.1.5.11.3 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | agreed | R5-222705 | - |
| R5-223404 | Modification of testcase 8.1.5.11.4 idle/inactive measurements | Nokia, Nokia Shanghai Bell | agreed | R5-223062 | - |
| R5-223405 | Modification of testcase 8.1.5.11.5 idle/inactive measurements | Nokia, Nokia Shanghai Bell | agreed | R5-223202 | - |
| R5-223406 | Modification of testcase 8.1.5.11.6 idle/inactive measurements | Nokia, Nokia Shanghai Bell | agreed | R5-223247 | - |
| R5-223407 | Modification of testcase 8.1.5.11.1 idle/inactive measurements | Nokia, Nokia Shanghai Bell | withdrawn | R5-223282 | - |
| R5-223408 | Addition of Applicability of new NR-NR Dual Connectivity test case | Lenovo | not pursued | R5-222952 | - |
| R5-223409 | Modification of idle/inactive testcase applicabilities | Nokia, Nokia Shanghai Bell | agreed | R5-223256 | - |
| R5-223410 | Addition of abbreviations for RedCap test | Huawei,Hisilicon | agreed | R5-222649 | - |
| R5-223411 | Update SIB1 for RedCap test | Huawei, Hisilicon | not pursued | R5-222821 | - |
| R5-223412 | Update the SN-FiledLengh of PDCP-Config and RLC-Config for RedCap test | Huawei, Hisilicon | not pursued | R5-222823 | - |
| R5-223413 | Updates to Test procedure 4.9.15 | Ericsson | agreed | R5-223081 | - |
| R5-223414 | Editorial updates to SIBs | MCC TF160 | agreed | R5-222379 | - |
| R5-223415 | Updates to Data-off condition for PDU SESSION ESTABLISHMENT REQUEST message | Ericsson | agreed | R5-223082 | - |
| R5-223416 | Resolving test frequency for n53 10 Mhz CBW | Qualcomm CDMA Technologies | agreed | R5-222265 | - |
| R5-223417 | Correction to Combinations of system information blocks | ROHDE & SCHWARZ | agreed | R5-222835 | - |
| R5-223418 | Correction to SOR test case 6.3.1.10 | Keysight Technologies UK Ltd, Huawei, HiSilicon | agreed | R5-223087 | - |
| R5-223419 | Correction to NR MAC test case 7.1.1.1.2 | Keysight Technologies UK, Qualcomm, Rohde&Schwarz | agreed | R5-222111 | - |
| R5-223420 | Correction to NR MAC test case 7.1.1.3.3 | Keysight Technologies UK, Qualcomm | agreed | R5-222112 | - |
| R5-223421 | Corrections to NR IIoT PDCP test cases 7.1.3.5.6.x | MCC TF160 | agreed | R5-222383 | - |
| R5-223422 | Correction to NR5GC testcase 7.1.3.4.1 | ROHDE & SCHWARZ | agreed | R5-222447 | - |
| R5-223423 | Correction to NR5GC testcase 8.1.1.2.4 | ROHDE & SCHWARZ | agreed | R5-222838 | - |
| R5-223424 | Correction to NR CA TC 8.1.5.7.1-CA duplication | Huawei, Hisilicon,Starpoint | agreed | R5-222816 | - |
| R5-223425 | Update of RACS TC 8.1.5.9.1 | MediaTek Inc. | agreed | R5-222934 | - |
| R5-223426 | Addition of new test case 8.2.5.3.3 | Element Materials Technology | agreed | R5-222707 | - |
| R5-223427 | Update of 5GMM TC 9.1.5.1.15 | MediaTek Inc. | agreed | R5-222935 | - |
| R5-223428 | Correction of Equivalent PLMN ID in the test procedure of 9.1.5.1.2 | OPPO, ZEKU | agreed | R5-223069 | - |
| R5-223429 | Correction to R16 eNS TC 9.1.10.3 | Qualcomm CDMA Technologies, Keysight Technologies UK, Anritsu Ltd | agreed | R5-222270 | - |
| R5-223430 | Correction to NR5GC testcase 11.1.2 | Qualcomm CDMA Technologies, Rohde&Schwarz, Anritsu Ltd, Keysight | agreed | R5-222279 | - |
| R5-223431 | Correction to NR TC 11.1.2-EPS Fallback with redirection without N26 | Huawei, Hisilicon | agreed | R5-222815 | - |
| R5-223432 | Add test case 11.1.3a | Ericsson | agreed | R5-222858 | - |
| R5-223433 | Update of 5G-SRVCC TC 11.2.1 | MediaTek Inc. | agreed | R5-223021 | - |
| R5-223434 | Correction to TC 11.3.8 UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running | CATT, TDIA | agreed | R5-222181 | - |
| R5-223435 | Correction to UAC test case 11.3.1a | Keysight Technologies UK Ltd | agreed | R5-222690 | - |
| R5-223436 | Correction to NR TC 11.3.5-UAC New cell not in the country of its HPLMN | Huawei, Hisilicon | agreed | R5-222753 | - |
| R5-223437 | Correction to NR TC 11.3.6-UAC for Access Identity 2 | Huawei, Hisilicon | agreed | R5-222754 | - |
| R5-223438 | Correction of 5GS IMS test case 11.4.12 | NTTDOCOMO,INC | agreed | R5-222180 | - |
| R5-223439 | Correction to Emergency Call test cases 11.4.x | Keysight Technologies UK Ltd, MCC TF160, Mediatek | agreed | R5-223060 | - |
| R5-223440 | Correction to NR5GC testcase 11.6.x | Qualcomm CDMA Technologies, Anritsu Ltd, Keysight UK | agreed | R5-222267 | - |
| R5-223441 | Updates to test case 11.6.1 | Ericsson | agreed | R5-223083 | - |
| R5-223442 | Update of 5G-NR test cases applicability | Qualcomm Incorporated, Lenovo, Motorola Mobility, Element Materials Technology, CATT, TDIA | agreed | R5-222124 | - |
| R5-223443 | 5G Rel-15: Test Models updates | MCC TF160 | agreed | R5-222385 | - |
| R5-223444 | NR IIoT: Test Model updates | MCC TF160 | agreed | R5-222916 | - |
| R5-223445 | Correction to LTE RACS test case 8.5.5.1 | Qualcomm Incorporated, MCC TF160 | agreed | R5-223241 | - |
| R5-223446 | Update to EIEI test case 11.3.1 | Qualcomm Incorporated, CETECOM GmbH | agreed | R5-223243 | - |
| R5-223447 | New TC 13.1.23 MCVideo with Dedicated Bearer of QCI 67-Attach-Call setup CO | NIST | agreed | R5-222166 | - |
| R5-223448 | New TC 13.1.25 MCData-Attach-Call setup CO | NIST | agreed | R5-222168 | - |
| R5-223449 | Correction of 36.523-1 TC 13.1.22 MCPTT Call Setup CO | NIST | agreed | R5-222170 | - |
| R5-223450 | Applicabality Additions for TCs 13.1.23, 13.1.24, and 13.1.1.25 | NIST | agreed | R5-222164 | - |
| R5-223451 | Correction to eCall test cases 13.3.1.2, 13.3.1.3, 13.3.1.4, 13.3.1.5, 13.3.1.6, 13.3.1.7 and 13.3.1.10 | Qualcomm Incorporated, CETECOM GmbH | agreed | R5-223213 | - |
| R5-223452 | Correction to generic procedure C.29.1 | Keysight Technologies UK | agreed | R5-222129 | - |
| R5-223453 | Corrections to A.2.3 | ROHDE & SCHWARZ | agreed | R5-222406 | - |
| R5-223454 | Corrections to A.3.1 | ROHDE & SCHWARZ | agreed | R5-222407 | - |
| R5-223455 | Corrections to A.9 | ROHDE & SCHWARZ | agreed | R5-222079 | - |
| R5-223456 | Corrections to initial EVS offers | ROHDE & SCHWARZ, Huawei, HiSilicon | agreed | R5-222080 | - |
| R5-223457 | Corrections to TC 7.4 | ROHDE & SCHWARZ, Huawei, HiSilicon | agreed | R5-222082 | - |
| R5-223458 | Corrections to TC 7.4a | ROHDE & SCHWARZ | agreed | R5-222083 | - |
| R5-223459 | Corrections to TC 7.20 | ROHDE & SCHWARZ, Huawei, HiSilicon | agreed | R5-222097 | - |
| R5-223460 | Corrections to TC 7.25 | ROHDE & SCHWARZ | agreed | R5-222102 | - |
| R5-223461 | Corrections to TC 8.6 | ROHDE & SCHWARZ | agreed | R5-222103 | - |
| R5-223462 | Corrections to TC 8.35 | ROHDE & SCHWARZ | agreed | R5-222107 | - |
| R5-223463 | Correction to IMS 5GS TC 8.34, 8.35 and 8.36 | Qualcomm CDMA Technologies, Keysight Technologies UK | agreed | R5-222268 | - |
| R5-223464 | Correction to IMS 5GS TC 10.9 | Qualcomm CDMA Technologies, Anritsu Ltd, MediaTek | agreed | R5-222275 | - |
| R5-223465 | Correction to IMS 5GS TC 10.10 | Qualcomm CDMA Technologies, Anritsu Ltd | agreed | R5-222276 | - |
| R5-223466 | Corrections to TC 10.11 | ROHDE & SCHWARZ | agreed | R5-222408 | - |
| R5-223467 | Correction to 5GS IMS Test Case 10.2 | Anritsu Ltd, Qualcomm, Rohde and Schwarz | agreed | R5-222413 | - |
| R5-223468 | Correction to IMS testcase 10.6 | ANRITSU LTD, Rohde & Schwarz | agreed | R5-222414 | - |
| R5-223469 | Correction to NR IMS TC 7.6-MT Voice Call with preconditions at both side | Huawei, Hisilicon | agreed | R5-222759 | - |
| R5-223470 | Correction to NR IMS TC 7.8-MT Voice Call without preconditions at MO UE | Huawei, Hisilicon | agreed | R5-222761 | - |
| R5-223471 | Correction to NR IMS TC 7.9-MT Voice Call without preconditions at MT UE | Huawei, Hisilicon | agreed | R5-222762 | - |
| R5-223472 | Correction to NR IMS TC 7.33-Session Timer for MT Voice Call | Huawei, Hisilicon | agreed | R5-222778 | - |
| R5-223473 | Correction to NR IMS TC 7.34-Session Timer for MT Voice Call | Huawei, Hisilicon | agreed | R5-222779 | - |
| R5-223474 | Correction to NR IMS TC 8.6-Terminating Identification Restriction Signalling 5GS | Huawei, Hisilicon | agreed | R5-222781 | - |
| R5-223475 | Corrections to TC 8.40 | ROHDE & SCHWARZ | agreed | R5-223056 | - |
| R5-223476 | Update to call control test case 7.21 | Qualcomm Incorporated | agreed | R5-223333 | - |
| R5-223477 | Correction of clause 5.3 - Generic test procedures for UE MCS operation | MCC TF160 | agreed | R5-222393 | - |
| R5-223478 | Correction of clause 5.5.3.6 - SIMPLE-FILTER | MCC TF160 | agreed | R5-222397 | - |
| R5-223479 | Correction of Private Call Test Cases in clause 6.2 | MCC TF160 | agreed | R5-222405 | - |
| R5-223480 | Corrections on mandatory channel bandwidths after Rel-15 | Keysight technologies UK Ltd | agreed | R5-223200 | - |
| R5-223481 | Corrections to TC 7.22 | ROHDE & SCHWARZ | agreed | R5-222098 | - |
| R5-223482 | Revised WID - UE Conformance - Enhancement of data collection for SON and MDT in NR SA and MR-DC | CMCC | endorsed | R5-222452 | - |
| R5-223483 | Revised WID on UE Conformance Test Aspects for NR Positioning Support | CATT | endorsed | R5-222611 | - |
| R5-223484 | Correction to NR IMS TC 7.1-MO Voice Call with 503 | Huawei, Hisilicon | agreed | R5-222755 | - |
| R5-223485 | Correction to NR IMS TC 7.12-MO Voice Call without preconditions at MT UE | Huawei, Hisilicon | agreed | R5-222764 | - |
| R5-223486 | Correction to NR IMS TC 7.24-UE receives CANCEL request for a forked MT voice call | Huawei, Hisilicon | agreed | R5-222769 | - |
| R5-223487 | Correction to NR IMS TC 7.26-Mobile Originating CAT | Huawei, Hisilicon | agreed | R5-222771 | - |
| R5-223488 | Correction to NR IMS TC 7.27-Session Timer for MO Voice Call | Huawei, Hisilicon | agreed | R5-222772 | - |
| R5-223489 | Correction to NR IMS TC 7.28-Session Timer for MO Voice Call | Huawei, Hisilicon | agreed | R5-222773 | - |
| R5-223490 | Correction to NR IMS TC 7.29-Session Timer for MO Voice Call | Huawei, Hisilicon | agreed | R5-222774 | - |
| R5-223491 | Correction to NR IMS TC 7.30-Session Timer for MO Voice Call | Huawei, Hisilicon | agreed | R5-222775 | - |
| R5-223492 | Correction to NR IMS TC 8.3-Originating Identification Restriction Signalling 5GS | Huawei, Hisilicon | agreed | R5-222780 | - |
| R5-223493 | Correction to NR IMS TC 8.8-Communication Forwarding Unconditional Signalling 5GS | Huawei, Hisilicon | agreed | R5-222782 | - |
| R5-223494 | Correction to NR IMS TC 8.41-Communication Forwarding on No Reply MO Voice Call | Huawei, Hisilicon | agreed | R5-222783 | - |
| R5-223495 | Addition of new SNPN test case | Lenovo | agreed | R5-222948 | - |
| R5-223496 | Correction to SON-MDT test case 8.1.6.1.2.x | Starpoint,  MediaTek Inc | agreed | R5-222671 | - |
| R5-223497 | Addition of new NR-NR Dual Connectivity test case | Lenovo | agreed | R5-222951 | - |
| R5-223498 | Corrections and amendments of IMS5GS applicability statements | ROHDE & SCHWARZ | agreed | R5-222075 | - |
| R5-223499 | PRD21: Status Updates and Completion Declaration Statements (CDS) for NR bands, NR band CBW extensions, 5G NR CADC configurations for PC3, PC1.5 and PC2 | China Unicom | reserved | - | - |
| R5-223500 | PRD21 CDS: PC3 for n77 and CBW extension for 25, 30 and 70 MHz | China Unicom | available | - | - |
| R5-223501 | PRD21 CDS: PC3 for n78 and CBW extension for 25, 30 and 70 MHz | China Unicom | available | - | - |
| R5-223600 | Update to FR2 UL CA MPR test case 6.2A.2.1 to prevent SCell drop by using UE PHR | Ericsson | revised | - | R5-223647 |
| R5-223601 | RAN5 5G NR Test Tolerance review discussion | Ericsson | noted | R5-223165 | - |
| R5-223602 | Correction to 4.3.1.4.1.3 on test frequencies for DC\_1A-28A\_n78C | ZTE Corporation | agreed | - | - |
| R5-223603 | FR1 2-step RACH tests Annexes | ROHDE & SCHWARZ | withdrawn | R5-222972 | - |
| R5-223604 | Applicability FR1 2-step RACH tests | ROHDE & SCHWARZ | withdrawn | R5-222973 | - |
| R5-223605 | Addition of 5.6.6.3 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | agreed | R5-223003 | - |
| R5-223606 | Addition of 7.6.6.3 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | agreed | R5-223006 | - |
| R5-223607 | Correction to EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX including TT | Anritsu | agreed | R5-222182 | - |
| R5-223608 | Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX | Anritsu | agreed | R5-222183 | - |
| R5-223609 | Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases | Ericsson | agreed | R5-223186 | - |
| R5-223610 | Completion 4.7.7.1 and 6.7.9.1 including TT anaysis results | Sporton | withdrawn | R5-222719 | - |
| R5-223611 | Completion 4.7.7.2 and 6.7.9.2 including TT anaysis results | Sporton | withdrawn | R5-222721 | - |
| R5-223612 | Completion 4.7.7.3 and 6.7.9.3 including TT anaysis results | Sporton | withdrawn | R5-222723 | - |
| R5-223613 | MU discussion on 40 cm Quiet Zone | Anritsu | noted | R5-222477 | - |
| R5-223614 | On QoQZ for 40cm QZ | Keysight Technologies UK Ltd | noted | R5-222553 | - |
| R5-223615 | Completing 5.7.4.1 including TT analysis | ROHDE & SCHWARZ | agreed | R5-222515 | - |
| R5-223616 | Completing 7.7.4.1 including TT analysis | ROHDE & SCHWARZ | agreed | R5-222518 | - |
| R5-223617 | Update FR2 TRx MU in 38.521-2 | Anritsu | agreed | R5-222478 | - |
| R5-223618 | Update FR2 TRx MU in 38.903 | Anritsu | withdrawn | R5-222479 | - |
| R5-223619 | Discussion on FR2 Enhanced Test Methods | Apple Portugal | noted | R5-223027 | - |
| R5-223620 | Discussion on TT and testability proposal for FR2 EVM | Keysight Technologies UK Ltd | noted | R5-222340 | - |
| R5-223621 | Handling of FR2 Power Class 1 in RAN5 | NTT DOCOMO INC. | noted | R5-223058 | - |
| R5-223622 | EIRP-based test metric for FR2 SEM verifications | Apple Portugal | noted | R5-223271 | - |
| R5-223623 | Discussion on n48 NS-27 A-MPR test configuration | Samsung | noted | R5-222752 | - |
| R5-223624 | FR2 RRM test cases: Known Issue List | Ericsson | noted | R5-223166 | - |
| R5-223625 | FR2 RRM test cases: Known Issue List - after RAN5\_95e | Ericsson | noted | R5-223167 | - |
| R5-223626 | Discussion on mandatory channel bandwidths after Rel-15 | Keysight technologies UK Ltd | noted | R5-223199 | - |
| R5-223627 | On LTE-NR coexistence performance test cases | ROHDE & SCHWARZ | noted | R5-222548 | - |
| R5-223628 | Further discussion on large UE gain range | Ericsson | noted | R5-223168 | - |
| R5-223629 | Discussion on R17 configuration DC\_20A\_n257A handling in RAN5 | Huawei, Hisilicon | withdrawn | R5-223128 | - |
| R5-223630 | Discussion on R17 configuration DC\_20A\_n257A handling in RAN5 | Huawei, Hisilicon | noted | - | - |
| R5-223631 | Discussion on minimum test time for 1% residual BLER | Huawei, HiSilicon | noted | R5-222891 | - |
| R5-223632 | Discussion on FR2 Beam Correspondence test structure | Apple Portugal, Keysight | noted | R5-223037 | - |
| R5-223633 | New method for preventing SCell drop in RAN5 FR2 UL CA test cases | Ericsson | noted | R5-223300 | - |
| R5-223634 | Discussion on Rel-16 Common Uplink Configuration for PC2, PC3 and PC4 | Keysight technologies UK Ltd | noted | R5-222440 | - |
| R5-223635 | LS on ModifiedMPRbehaviour clarification for different power classes | Keysight technologies UK Ltd | for email approval | R5-222441 | - |
| R5-223636 | Discussion on FR2 MPR enhancements | Keysight technologies UK Ltd | noted | R5-222439 | - |
| R5-223637 | Discussion on updates required in Test points analysis for MPR, SEM and ACLR | Keysight technologies UK Ltd | noted | R5-222435 | - |
| R5-223638 | LS to RAN4 on TT work for NR FR1 TRP TS | TSG WG RAN5 | approved | - | - |
| R5-223639 | Clarification on mpr-PowerBoost-FR2-r16 | Apple Hungary Kft. | withdrawn | R5-223285 | - |
| R5-223640 | Change FR2 SEM verification test metric | Apple Portugal | withdrawn | R5-223272 | - |
| R5-223641 | Inputs to RF AP#94e.22 | Apple Portugal | noted | R5-223040 | - |
| R5-223642 | Update of test channel BWs for n5 due to introduction of CWB 25 MHz | Ericsson | withdrawn | R5-222349 | - |
| R5-223643 | Discussion on handling of TxD Work Plan for receiver test cases | CAICT | noted | R5-222185 | - |
| R5-223644 | Discussion on improvements of permitted test methods | Keysight technologies UK Ltd | noted | R5-223217 | - |
| R5-223645 | Discussion on NR part UL power testing for Rel-15 PC2 UEs of Inter-band EN-DC within FR1 | CAICT | noted | R5-222186 | - |
| R5-223646 | Discussion on testability aspects for new test function to limit Pcell power | Keysight technologies UK Ltd | noted | R5-223278 | - |
| R5-223647 | Update to FR2 UL CA MPR test case 6.2A.2.1 to prevent SCell drop by using UE PHR | Ericsson | not pursued | R5-223600 | - |
| R5-223648 | Addition of 6 DL CA Event Triggered Reporting on Deactivated SCell test case 8.16.96 | Ericsson | agreed | R5-223187 | - |
| R5-223649 | Introduction of test frequencies for 3 band EN-DC configurations | Ericsson | agreed | R5-223156 | - |
| R5-223650 | Introduction of test frequencies for additional Rel-16 NR CA DC and EN-DC inter-band configurations | Verizon Switzerland AG | agreed | R5-223196 | - |
| R5-223651 | Correction to 4.3.1.1.5.77 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n77 with class 2A | ZTE Corporation, Keysight Technologies | agreed | R5-223226 | - |
| R5-223652 | Correction to 4.3.1.1.5.78 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n78 with class 2A | ZTE Corporation | agreed | R5-223227 | - |
| R5-223653 | Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R16 configurations | ZTE Corporation | agreed | R5-223228 | - |
| R5-223654 | Introduction of UE capabilities for 2 band EN-DC configurations | Ericsson | agreed | R5-223106 | - |
| R5-223655 | Introduction of test specifications for additional Rel-16 CA combos to Clause 6 | Verizon Switzerland AG | agreed | R5-223240 | - |
| R5-223656 | Test procedure correction in FR1 CA test case 7.6A.4.3 | Keysight Technologies UK Ltd | agreed | R5-222332 | - |
| R5-223657 | General updates of clause 5 for R16 CADC configurations | China Unicom, Verizon | agreed | R5-222940 | - |
| R5-223658 | Introduction of Output power requirements for DC\_1A\_n8A, DC\_7A\_n8A and DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | agreed | R5-222285 | - |
| R5-223659 | Introduction of Allowed maximum configured output power relaxation for DC\_1\_n5, DC\_1\_n8, DC\_3\_n5, DC\_7\_n5, DC\_7\_n8 and DC\_8\_n28 | Nokia, Nokia Shanghai Bell | agreed | R5-222286 | - |
| R5-223660 | Introduction of General Spurious emissions requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222287 | - |
| R5-223661 | Introduction of Spurious emissions band UE co-existence limits Rel-16 for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222288 | - |
| R5-223662 | Introduction of Spurious emissions band UE co-existence Test description for DC\_1A\_n8A, DC\_7A\_n5A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222289 | - |
| R5-223663 | Introduction of Spurious emissions band UE co-existence Rel-16 Test requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222290 | - |
| R5-223664 | Addition of new CADC MOP TC | Intertek | agreed | R5-222561 | - |
| R5-223665 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | agreed | R5-222725 | - |
| R5-223666 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | agreed | R5-222726 | - |
| R5-223667 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | agreed | R5-222727 | - |
| R5-223668 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | agreed | R5-222728 | - |
| R5-223669 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | agreed | R5-222729 | - |
| R5-223670 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | agreed | R5-222730 | - |
| R5-223671 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | agreed | R5-222731 | - |
| R5-223672 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | agreed | R5-222732 | - |
| R5-223673 | Update 6.5B.3.3.2 for R16 DC\_14\_n2 and DC\_14\_n66 | Qualcomm Israel Ltd. | agreed | R5-222747 | - |
| R5-223674 | Add delta TIBc for inter-band DC\_28A\_n7A-n78A | Ericsson | agreed | R5-223244 | - |
| R5-223675 | Introduction of Allowed reference sensitivity relaxation for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | agreed | R5-223299 | - |
| R5-223676 | Introduction of DC\_1A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222302 | - |
| R5-223677 | Introduction of DC\_3A-7A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222303 | - |
| R5-223678 | Introduction of DC\_7A-8A\_n3A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222304 | - |
| R5-223679 | Introduction of DC\_7A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222305 | - |
| R5-223680 | Introduction of DC\_7A-28A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222306 | - |
| R5-223681 | Addtion Minimum Conformance Requests of REFSENS for FR1 EN-DC | KDDI Corporation | agreed | R5-222474 | - |
| R5-223682 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222291 | - |
| R5-223683 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222292 | - |
| R5-223684 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | agreed | R5-222293 | - |
| R5-223685 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222294 | - |
| R5-223686 | Introduction of reference sensitivity test point analysis for DC\_1A-20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222295 | - |
| R5-223687 | Introduction of reference sensitivity test point analysis for DC\_1A-28A\_n5A | Nokia, Nokia Shanghai Bell | agreed | R5-222296 | - |
| R5-223688 | Introduction of reference sensitivity test point analysis for DC\_3A-7A\_n5A | Nokia, Nokia Shanghai Bell | agreed | R5-222297 | - |
| R5-223689 | Introduction of reference sensitivity test point analysis for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | agreed | R5-222298 | - |
| R5-223690 | Introduction of reference sensitivity test point analysis for DC\_7A-8A\_n3A | Nokia, Nokia Shanghai Bell | agreed | R5-222299 | - |
| R5-223691 | Introduction of reference sensitivity test point analysis for DC\_7A-20A\_n8A | Nokia, Nokia Shanghai Bell | agreed | R5-222300 | - |
| R5-223692 | Introduction of reference sensitivity test point analysis for DC\_7A-28A\_n5A | Nokia, Nokia Shanghai Bell | agreed | R5-222301 | - |
| R5-223693 | Update test configuration table for NS\_27 of A-MPR | Samsung, Google | agreed | R5-223218 | - |
| R5-223694 | Update of CBW 70MHz into refsens TC | China Unicom | agreed | R5-222684 | - |
| R5-223695 | General updates of clause 5 for R16 new CBW configurations | China Unicom, Orange | agreed | R5-222681 | - |
| R5-223696 | Update\_TP\_analysis for AMPR NS\_27 | Samsung | agreed | R5-223216 | - |
| R5-223697 | Corrections in message exceptions and test points for FR1 test case 6.3A.4.1.1 | Keysight Technologies UK Ltd | agreed | R5-222428 | - |
| R5-223698 | Update 6.5.3.2 Spur-emiss R16\_17 for UE co-exist | Qualcomm Israel Ltd. | agreed | R5-222807 | - |
| R5-223699 | Correction to NS\_27 in test case AMPR for MIMO | Huawei, Hisilicon | agreed | R5-223125 | - |
| R5-223700 | Test procedure correction in FR1 CA test case 7.6A.4.2 | Keysight Technologies UK Ltd | agreed | R5-222333 | - |
| R5-223701 | Correction of FR1 DL Interruptions test cases applicability | Ericsson | agreed | R5-223302 | - |
| R5-223702 | Correction of Inter frequency conditional handover Test Case 5.1.50 including Test Tolerance | Ericsson | agreed | R5-223180 | - |
| R5-223703 | Addition of 6.4E.2.2 Carrier leakage for V2X | Huawei, HiSilicon | agreed | R5-222883 | - |
| R5-223704 | Addition of NR SL Demod TC 11.1.9 - PSFCH capability | Huawei,Hisilicon | agreed | R5-222626 | - |
| R5-223705 | Addition of spectrum emission mask testing for UL MIMO with ULFPTx | Huawei, HiSilicon | agreed | R5-223016 | - |
| R5-223706 | Addition of test applicability for eMIMO test cases | Huawei, HiSilicon | agreed | R5-223013 | - |
| R5-223707 | Addition of minimum requirements for EN-DC FR2 L1-SINR measurement for beam reporting | Huawei, HiSilicon | agreed | R5-223000 | - |
| R5-223708 | Addition of test tolerance analysis for 5.6.6.3 | Huawei, HiSilicon | agreed | R5-223010 | - |
| R5-223709 | Addition of test tolerance analysis for 7.6.6.3 | Huawei, HiSilicon | agreed | R5-223012 | - |
| R5-223710 | Introduction of EN-DC FR2 SRS-RSRP measurement in non-DRX test case 5.6.4.1 | Qualcomm Austria RFFE GmbH | agreed | R5-222559 | - |
| R5-223711 | Introduction of EN-DC FR2 SRS-RSRP measurement accuracy test case 5.7.5.1 | Qualcomm Austria RFFE GmbH | agreed | R5-222560 | - |
| R5-223712 | Introduction of NR SA FR2 SRS-RSRP measurement in non-DRX test case 7.6.4.1 | Qualcomm Austria RFFE GmbH | agreed | R5-222689 | - |
| R5-223713 | Introduction of NR SA FR2 SRS-RSRP measurement accuracy test case 7.7.5.1 | Qualcomm Austria RFFE GmbH | agreed | R5-222706 | - |
| R5-223714 | Correction to PDCCH parameters in 5.2.2.1.4 and 5.2.2.2.4 | Anritsu | agreed | R5-222497 | - |
| R5-223715 | Update to FR1 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | agreed | R5-222582 | - |
| R5-223716 | Update to FR1 CA power imbalance test cases | QUALCOMM Europe Inc. - Italy | agreed | R5-222583 | - |
| R5-223717 | Update to FR1 CA CQI reporting test case | QUALCOMM Europe Inc. - Italy | agreed | R5-222586 | - |
| R5-223718 | Update to FR2 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | agreed | R5-222584 | - |
| R5-223719 | Introduction of FR2 CA SDR test case | QUALCOMM Europe Inc. - Italy | agreed | R5-222587 | - |
| R5-223720 | Applicability update for NR perf enh WI test cases | QUALCOMM Europe Inc. - Italy | agreed | R5-222581 | - |
| R5-223721 | Addition of PICS for NR HST RRM TCs | Huawei,Hisilicon | agreed | R5-222634 | - |
| R5-223722 | Editorial, removal of editors note in test case 5.2.2.2.10\_1 | Ericsson | agreed | R5-222957 | - |
| R5-223723 | Adding TT and removal of editors note in test case 5.2.3.2.9\_1 | Ericsson | agreed | R5-222958 | - |
| R5-223724 | Adding TT and removal of editors note in test case 5.2.3.2.10\_1 | Ericsson | agreed | R5-222974 | - |
| R5-223725 | Correction to applicability of HST RRM TCs | Huawei,Hisilicon | agreed | R5-222635 | - |
| R5-223726 | Update to URLLC test cases 5.2.x.y.6 | Huawei, HiSilicon | agreed | R5-222894 | - |
| R5-223727 | Update to Annex G for minimum test time | Huawei, HiSilicon | agreed | R5-222892 | - |
| R5-223728 | Update to Annex F for URLLC test cases | Huawei, HiSilicon | agreed | R5-222893 | - |
| R5-223729 | Updating RB allocation for CBW 45MHz | Huawei, Hisilicon | agreed | R5-223129 | - |
| R5-223730 | Updating AMPR test case for NS\_48 for CBW 45MHz | Huawei, Hisilicon | agreed | R5-223131 | - |
| R5-223731 | Update of reference sense test case 7.3.2 for n41 and CWB 70 MHz | Ericsson | agreed | R5-222350 | - |
| R5-223732 | Updating A-MPR and A-SE TP analysis for NS\_48 | Huawei, Hisilicon | agreed | R5-223132 | - |
| R5-223733 | Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | agreed | R5-223070 | - |
| R5-223734 | Updating General Spurious Emissions TC for CA\_n24-n41 | Ligado Networks | agreed | R5-222661 | - |
| R5-223735 | Updating General Spurious Emissions TCs for CA\_n24-n48 | Ligado Networks | agreed | R5-222662 | - |
| R5-223736 | Updating General Spurious Emissions TCs for CA\_n24-n77 | Ligado Networks | agreed | R5-222663 | - |
| R5-223737 | Updating Spurious emission for UE co-existence TC for CA\_n24-n41 | Ligado Networks | agreed | R5-222665 | - |
| R5-223738 | Updating Spurious emission for UE co-existence TC for CA\_n24-n48 | Ligado Networks | agreed | R5-222666 | - |
| R5-223739 | Updating Spurious emission for UE co-existence TC for CA\_n24-n77 | Ligado Networks | agreed | R5-222667 | - |
| R5-223740 | Updating AMPR TC for Rel-17 CA\_n24-n41 | Ligado Networks | agreed | R5-222672 | - |
| R5-223741 | Updating AMPR TC for Rel-17 CA\_n24-n48 | Ligado Networks | agreed | R5-222673 | - |
| R5-223742 | Updating AMPR TC for Rel-17 CA\_n24-n77 | Ligado Networks | agreed | R5-222675 | - |
| R5-223743 | General updates of clause 5 for R17 CADC configurations | China Unicom, WE Certification | agreed | R5-222676 | - |
| R5-223744 | Update to R17 Configuration for DC | Bureau Veritas, Huawei, HiSilicon, Verizon Switzerland AG, NTT DOCOMO INC. | agreed | R5-222704 | - |
| R5-223745 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n41 | Ligado Networks | agreed | R5-222658 | - |
| R5-223746 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n48 | Ligado Networks | agreed | R5-222659 | - |
| R5-223747 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n77 | Ligado Networks | agreed | R5-222660 | - |
| R5-223748 | Addition of new RSTD accuracy test case 14.3.4 | CATT | agreed | R5-222602 | - |
| R5-223749 | Common Uplink Configuration updates for NR RF requirement enhancements for FR2 | Keysight technologies UK Ltd | agreed | R5-222444 | - |
| R5-223750 | FR2 Enhanced Beam Correspondence test updates | Apple Portugal | agreed | R5-223034 | - |
| R5-223751 | Updates across Spherical Coverage test cases to incorporate Rel.16 requirements | Apple Portugal | agreed | R5-223038 | - |
| R5-223752 | Test case updates in Max Input Level FR2 CA tests | Apple Portugal | agreed | R5-223045 | - |
| R5-223753 | 38.522 applicability updates for Rel.16 FR2 RF enhancements | Apple Portugal | agreed | R5-223036 | - |
| R5-223754 | Add MU and TT for 7.5F.1 and 7.6F.2 | Qualcomm Israel Ltd. | agreed | R5-222737 | - |
| R5-223755 | Introduction of test frequencies for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222307 | - |
| R5-223756 | Introduction of Output power dynamics and Minimum output power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222314 | - |
| R5-223757 | Introduction of Transmit OFF power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222315 | - |
| R5-223758 | Introduction of Transmit ON/OFF time mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222316 | - |
| R5-223759 | Introduction of Transmit signal quality and Frequency error for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222317 | - |
| R5-223760 | Introduction of Error Vector Magnitude for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222318 | - |
| R5-223761 | Introduction of Carrier leakage for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222319 | - |
| R5-223762 | Introduction of In-band emissions for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222320 | - |
| R5-223763 | Introduction of Output RF spectrum emissions and Occupied bandwidth for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222321 | - |
| R5-223764 | Introduction of Out of band emission Spectrum emission mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222322 | - |
| R5-223765 | Introduction of Adjacent channel leakage ratio for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222323 | - |
| R5-223766 | Introduction of Spurious emission for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222324 | - |
| R5-223767 | Introduction of Transmit intermodulation for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222325 | - |
| R5-223768 | Introduction of NR-DC references to transmitter test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222326 | - |
| R5-223769 | Introduction of configuration DC\_n48A-n70A for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | agreed | R5-222309 | - |
| R5-223770 | UL MIMO MOP requirements for PC1.5 in n77 and n78 | Google Inc., Verizon | agreed | R5-222426 | - |
| R5-223771 | Addition of test point analysis for 6.2B.4.1.3\_1 Configured Output Power | Huawei, HiSilicon | agreed | R5-222832 | - |
| R5-223772 | Addition of PICS for TxD | CMCC | agreed | R5-223163 | - |
| R5-223773 | Removal of PC1.5 from TC 6.2.1 MOP | CMCC | agreed | R5-222227 | - |
| R5-223774 | Removal of PC1.5 from TC 6.2.2 MPR | CMCC | agreed | R5-222228 | - |
| R5-223775 | Removal of PC1.5 from TC 6.2.3 A-MPR | CMCC | agreed | R5-222229 | - |
| R5-223776 | Removal of PC1.5 from TC 6.5.2.4.1 ACLR | CMCC | agreed | R5-222230 | - |
| R5-223777 | Addition of new test case 6.2G.1 maximum output power for Tx Diversity | Huawei, HiSilicon | agreed | R5-222918 | - |
| R5-223778 | Addition of new test case 6.2G.2 maximum output power reduction for Tx Diversity | Huawei, HiSilicon | agreed | R5-222919 | - |
| R5-223779 | Addition of new test case 6.2G.3 additional maximum output power reduction for Tx Diversity | Huawei, HiSilicon | agreed | R5-222920 | - |
| R5-223780 | Addition of new test case 6.5G.2.3 Adjacent channel leakage ratio for Tx Diversity | Huawei, HiSilicon | agreed | R5-222921 | - |
| R5-223781 | Introduce SRS IL for UE with NR TxD | Apple Portugal | agreed | R5-223029 | - |
| R5-223782 | Addition of Annex F for Tx Diversity test cases | Huawei, HiSilicon | agreed | R5-222923 | - |
| R5-223783 | Jumbo Applicability CR for NR\_RF\_TxD WI | CMCC | agreed | R5-222870 | - |
| R5-223784 | Addition of RedCap default test channel bandwidth | Huawei, HiSilicon | agreed | R5-222905 | - |
| R5-223785 | Addition of Redcap MOP 6.2I.1 | Huawei, HiSilicon | agreed | R5-222899 | - |
| R5-223786 | Addition of Redcap MPR 6.2I.2 | Huawei, HiSilicon | agreed | R5-222900 | - |
| R5-223787 | Addition of Redcap AMPR 6.2I.3 | Huawei, HiSilicon | agreed | R5-222901 | - |
| R5-223788 | Addition of Redcap configured output power 6.2I.4 | Huawei, HiSilicon | agreed | R5-222902 | - |
| R5-223789 | Addition of Reference sensitivity TC for RedCap | China Unicom | agreed | R5-222837 | - |
| R5-223790 | Addition of redcap general requirement into clause 3-5 | China Unicom, ZTE | agreed | R5-222839 | - |
| R5-223791 | Addition of test applicability for RedCap test cases | Huawei, HiSilicon | agreed | R5-222904 | - |
| R5-223792 | Correction to test frequency for n53 | ROHDE & SCHWARZ | agreed | R5-222547 | - |
| R5-223793 | Clarification of PCC and SCC configuration for CA test cases | Huawei, HiSilicon, CMCC | agreed | R5-222875 | - |
| R5-223794 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | agreed | R5-222569 | - |
| R5-223795 | CR on Permitted Methodologies and Applicability | Keysight Technologies UK Ltd | agreed | R5-222555 | - |
| R5-223796 | Add new messages and procedure for test function to limit Pcell Power | Apple Portugal | agreed | R5-223033 | - |
| R5-223797 | Alignment of of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3 | CAICT | agreed | R5-222208 | - |
| R5-223798 | Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities | ZTE Corporation | agreed | R5-223233 | - |
| R5-223799 | Editorial correction to A.4.3.1 for RF baseline implementation capabilities | ZTE Corporation | agreed | R5-223236 | - |
| R5-223800 | Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability | ZTE Corporation | agreed | R5-223237 | - |
| R5-223801 | Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies | ZTE Corporation | agreed | R5-223239 | - |
| R5-223802 | Addition of new test function to limit Pcell power | Apple Portugal | agreed | R5-223031 | - |
| R5-223803 | Addition of new test function to limit Pcell power | Apple Portugal | agreed | R5-223032 | - |
| R5-223804 | Moving additional tolerance in 6.2A.3.1.5 and 6.2D.3.5 to end of the section | CAICT, Nokia, Nokia Shanghai Bell | agreed | R5-222207 | - |
| R5-223805 | Correction to time mask test cases | Anritsu | agreed | R5-222480 | - |
| R5-223806 | Correction to RB allocation and test requirement in 6.2.3 | Anritsu | agreed | R5-222485 | - |
| R5-223807 | Correction to DCI format in 6.4.2.1 | Anritsu | agreed | R5-222495 | - |
| R5-223808 | Update AMPR for NS\_04 | Qualcomm Israel Ltd. | revised | R5-222742 | R5-223875 |
| R5-223809 | Update to MPR test requirements to remove ambiguity of T\_LC | Huawei, HiSilicon, Bureau Veritas | agreed | R5-222878 | - |
| R5-223810 | Correction to Test Channel Bandwidths for FR1 CA | Huawei, Hisilicon | agreed | R5-223140 | - |
| R5-223811 | Editorial correction to test requirement of Aggregate power tolerance for UL MIMO | Huawei, Hisilicon | agreed | R5-223141 | - |
| R5-223812 | Update 6.2.3 for additional maximum power reduction | ZTE Corporation | agreed | R5-223238 | - |
| R5-223813 | Clarification of BCS in test configuration of CA test cases | ROHDE & SCHWARZ | agreed | R5-222545 | - |
| R5-223814 | Rel-15 MPR updates | Keysight technologies UK Ltd | agreed | R5-222437 | - |
| R5-223815 | Common Uplink Configuration updates for Rel-15 FR2 | Keysight technologies UK Ltd | agreed | R5-222443 | - |
| R5-223816 | Correction to DCI format in singnal quality TCs | Anritsu | agreed | R5-222496 | - |
| R5-223817 | Implement test function approach to limit Pcell Power in FR2 UL-CA tests | Apple Portugal | agreed | R5-223030 | - |
| R5-223818 | Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE | ZTE Corporation | agreed | R5-223230 | - |
| R5-223819 | Clarification on Configured transmitted power | Apple Hungary Kft. | agreed | R5-223280 | - |
| R5-223820 | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | QUALCOMM JAPAN LLC. | agreed | R5-223283 | - |
| R5-223821 | Editorial correction to test requirement of FR2 test cases | Huawei, Hisilicon | agreed | R5-223292 | - |
| R5-223822 | Clarification on Adjacent channel selectivity | Apple Hungary Kft. | agreed | R5-223277 | - |
| R5-223823 | Clarification on In-band blocking | Apple Hungary Kft. | agreed | R5-223284 | - |
| R5-223824 | Editorial correction in Annex | Anritsu | agreed | R5-222483 | - |
| R5-223825 | Correction of TRP Measurement Grids | Keysight Technologies UK Ltd | agreed | R5-222552 | - |
| R5-223826 | CR on applicability per permitted test method | Keysight Technologies UK Ltd | agreed | R5-222556 | - |
| R5-223827 | Correction to FR2 DL RMCs | Apple Portugal | agreed | R5-223039 | - |
| R5-223828 | Initial introduction of fast spherical coverage test method | Apple Portugal | agreed | R5-223041 | - |
| R5-223829 | Initial introduction of RSRP-B based Rx Peak Beam Search | Apple Portugal | agreed | R5-223042 | - |
| R5-223830 | Initial introduction of Enhanced EIRP measurement method | Apple Portugal | agreed | R5-223043 | - |
| R5-223831 | Correction to A.2.3 and A.3.3 for UL and DL RMCs | ZTE Corporation, Anritsu | agreed | R5-223232 | - |
| R5-223832 | Clarification on UE Channel bandwidth per operating band for CA | Apple Hungary Kft. | agreed | R5-223286 | - |
| R5-223833 | Correction of Transmitter power test requirements for EN-DC within FR1 | CAICT | agreed | R5-222193 | - |
| R5-223834 | Editorial correction for 6.3B.8 Power control for EN-DC | TTA | agreed | R5-222423 | - |
| R5-223835 | Clarifications on Common Uplink Configuration updates | Keysight technologies UK Ltd | agreed | R5-222438 | - |
| R5-223836 | Adding missing configurations in SE co-ex Rel-17 table | Huawei, HiSilicon, Bureau Veritas | agreed | R5-222881 | - |
| R5-223837 | Correction to the referecne of test frequency | Anritsu | agreed | R5-222501 | - |
| R5-223838 | Clarification of UL RMC in FR1 PMI test cases | ROHDE & SCHWARZ | agreed | R5-222541 | - |
| R5-223839 | Update of LTE-NR coexistence test cases | ROHDE & SCHWARZ | agreed | R5-222549 | - |
| R5-223840 | Update of FR2 test cases | ROHDE & SCHWARZ | agreed | R5-222546 | - |
| R5-223841 | Introduction of FR2 SDR test case | QUALCOMM Europe Inc. - Italy | agreed | R5-222588 | - |
| R5-223842 | Correction to applicability for 6.2D.1.1 and 6.2D.1.2 of 38.521-2 | TTA | agreed | R5-222424 | - |
| R5-223843 | Correction to test bands selection criteria for UL MIMO capabilities | Bureau Veritas, Huawei, HiSilicon | agreed | R5-222696 | - |
| R5-223844 | Correction to applicability of 5G test cases | Bureau Veritas, Rohde & Schwarz | agreed | R5-222701 | - |
| R5-223845 | Correction on test condition for FR2 DL 256QAM test cases | China Telecom | agreed | R5-223118 | - |
| R5-223846 | Addition to 3.3 for new abbreviations in TS 38.522 | ZTE Corporation | agreed | R5-223219 | - |
| R5-223847 | Correction to 4.0 on Tested CA DC configuration selection criteria for E005a, E010 and E010a | ZTE Corporation | agreed | R5-223221 | - |
| R5-223848 | Editorial correction to A.4.0 for Tested bands selection criteria | ZTE Corporation | agreed | R5-223235 | - |
| R5-223849 | Update of applicability of FR2 RF test cases | ROHDE & SCHWARZ | agreed | R5-223254 | - |
| R5-223850 | Corrections to 4.7.5.1 | ROHDE & SCHWARZ | agreed | R5-222530 | - |
| R5-223851 | Corrections to 4.5.5.1 | ROHDE & SCHWARZ | agreed | R5-222538 | - |
| R5-223852 | Corrections to 4.5.5.2 | ROHDE & SCHWARZ | revised | R5-222539 | R5-223870 |
| R5-223853 | Remove condition asynchronous cells | ROHDE & SCHWARZ | agreed | R5-222959 | - |
| R5-223854 | Correction to CSI-RS for tracking in 5.6.1.2 | Anritsu | agreed | R5-222504 | - |
| R5-223855 | Completing 5.7.4.2 including TT analysis | ROHDE & SCHWARZ | agreed | R5-222516 | - |
| R5-223856 | Update to FR2 interruption test case 5.5.2.1 | QUALCOMM Europe Inc. - Italy | agreed | R5-222594 | - |
| R5-223857 | Correction to FR2 EN-DC BFD TCs | Huawei,Hisilicon | agreed | R5-222637 | - |
| R5-223858 | Corrections to 6.6.3.2 | ROHDE & SCHWARZ | agreed | R5-222960 | - |
| R5-223859 | Editorial reference correction to NR SA FR2 cell re-selection test requirements | Nokia, Nokia Shanghai Bell | agreed | R5-222328 | - |
| R5-223860 | Completing 7.7.4.2 including TT analysis | ROHDE & SCHWARZ | agreed | R5-222519 | - |
| R5-223861 | Correction to FR2 NR SA BFD TCs | Huawei,Hisilicon | agreed | R5-222639 | - |
| R5-223862 | Correction of RRM test case 7.7.1.1 | Ericsson | agreed | R5-223169 | - |
| R5-223863 | Annex F for L1-RSRP meas accuracy test cases | ROHDE & SCHWARZ | agreed | R5-222520 | - |
| R5-223864 | Alignment of RMC note for DRX test cases | QUALCOMM Europe Inc. - Italy | agreed | R5-222592 | - |
| R5-223865 | TT analysis for RRM test case 5.7.4.1 and 5.7.4.2 | ROHDE & SCHWARZ | agreed | R5-222514 | - |
| R5-223866 | Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2 | Ericsson | agreed | R5-223170 | - |
| R5-223867 | Updating TP analysis for MPR, SEM and ACLR for FR2 | Keysight technologies UK Ltd | agreed | R5-222442 | - |
| R5-223868 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | agreed | R5-222575 | - |
| R5-223869 | Correction to Release of Applicability for TC7.1.3 and TC7.1.4 | Google Inc. | not pursued | R5-223242 | - |
| R5-223870 | Corrections to 4.5.5.2 | ROHDE & SCHWARZ | agreed | R5-223852 | - |
| R5-223871 | Correction to CSI-Report periodicity and offset in 6.2A.3.1 | Anritsu | agreed | R5-222500 | - |
| R5-223872 | Update 6.4.2.1a EVM including symbols with transient period | Qualcomm Israel Ltd. | agreed | R5-222741 | - |
| R5-223873 | Update for 6.3.3.1 General clause of Tx ON-OFF time mask | Qualcomm Israel Ltd. | agreed | R5-223291 | - |
| R5-223874 | Correction to Active UL BWP-2 Configuration in 4.5.6.1.1 and 6.5.6.1.2 | Anritsu | agreed | R5-222506 | - |
| R5-223875 | Update AMPR for NS\_04 | Qualcomm Israel Ltd. | agreed | R5-223808 | - |
| R5-223876 | Addition of Test Tolerance for UL switching test cases in Annex F of TS 38.533 | Ericsson | withdrawn | R5-223174 | - |
| R5-223877 | Test Tolerances for DL Interruptions at switching between two uplink carriers test cases | Ericsson | revised | R5-223171 | R5-223887 |
| R5-223878 | Correction of UL switching test case 6.5.7.1 including Test Tolerance | Ericsson | agreed | R5-223172 | - |
| R5-223879 | Correction of UL switching test case 6.5.7.2 including Test Tolerance | Ericsson | agreed | R5-223173 | - |
| R5-223880 | Addition of eMIMO test case 6.5.5.5 | Huawei, HiSilicon | agreed | R5-222888 | - |
| R5-223881 | Addition of eMIMO test case 6.5.5.6 | Huawei, HiSilicon | agreed | R5-222889 | - |
| R5-223882 | Addition of 7.6.6.2 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | agreed | R5-223005 | - |
| R5-223883 | Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1 | Huawei, HiSilicon | agreed | R5-223008 | - |
| R5-223884 | Addition of test tolerance analysis for 5.6.6.2 | Huawei, HiSilicon | agreed | R5-223009 | - |
| R5-223885 | Addition of test tolerance analysis for 7.6.6.2 | Huawei, HiSilicon | agreed | R5-223011 | - |
| R5-223886 | Update to FR1 Scell activation and deactivation test cases | QUALCOMM Europe Inc. - Italy | agreed | R5-222593 | - |
| R5-223887 | Test Tolerances for DL Interruptions at switching between two uplink carriers test cases | Ericsson | withdrawn | R5-223877 | - |

## Annex B: List of change requests

1422 CRs and final revisions at RAN5#95-e (634 intermediates not shown)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| R5-223213 | Correction to eCall test cases 13.3.1.2, 13.3.1.3, 13.3.1.4, 13.3.1.5, 13.3.1.6, 13.3.1.7 and 13.3.1.10 | Qualcomm Incorporated, CETECOM GmbH | 34.123-1 | 3937 | - | Rel-15 | F | TEI8\_Test | revised |
| R5-223451 | Correction to eCall test cases 13.3.1.2, 13.3.1.3, 13.3.1.4, 13.3.1.5, 13.3.1.6, 13.3.1.7 and 13.3.1.10 | Qualcomm Incorporated, CETECOM GmbH | 34.123-1 | 3937 | 1 | Rel-15 | F | TEI8\_Test | agreed |
| R5-222073 | Corrections to C.27 | ROHDE & SCHWARZ | 34.229-1 | 1491 | - | Rel-16 | F | TEI8\_Test | agreed |
| R5-222129 | Correction to generic procedure C.29.1 | Keysight Technologies UK | 34.229-1 | 1492 | - | Rel-16 | F | TEI8\_Test | revised |
| R5-223452 | Correction to generic procedure C.29.1 | Keysight Technologies UK | 34.229-1 | 1492 | 1 | Rel-16 | F | TEI8\_Test | agreed |
| R5-222389 | Checking the absence of geolocation information in INVITE request | MCC TF160 | 34.229-1 | 1493 | - | Rel-16 | F | TEI9\_Test | withdrawn |
| R5-222390 | Correction of A.17 | MCC TF160 | 34.229-1 | 1494 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222406 | Corrections to A.2.3 | ROHDE & SCHWARZ | 34.229-1 | 1495 | - | Rel-16 | F | TEI8\_Test | revised |
| R5-223453 | Corrections to A.2.3 | ROHDE & SCHWARZ | 34.229-1 | 1495 | 1 | Rel-16 | F | TEI8\_Test | agreed |
| R5-222407 | Corrections to A.3.1 | ROHDE & SCHWARZ | 34.229-1 | 1496 | - | Rel-16 | F | TEI8\_Test | revised |
| R5-223454 | Corrections to A.3.1 | ROHDE & SCHWARZ | 34.229-1 | 1496 | 1 | Rel-16 | F | TEI8\_Test | agreed |
| R5-222412 | Corrections to A.2.1 | ROHDE & SCHWARZ | 34.229-1 | 1497 | - | Rel-16 | F | TEI8\_Test | agreed |
| R5-222427 | Update to IMS emergency test case 19.1.2 | MCC TF160 | 34.229-1 | 1498 | - | Rel-16 | F | TEI9\_Test | agreed |
| R5-223266 | Correction to session timer for USSD TCs | Qualcomm Incorporated | 34.229-1 | 1499 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223306 | Update to default INVITE in A.2.1 for checking the absence of geolocation information | MCC TF160 | 34.229-1 | 1500 | - | Rel-16 | F | TEI9\_Test | agreed |
| R5-222074 | Re-instating pc\_PS\_data\_off | ROHDE & SCHWARZ | 34.229-2 | 0309 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222075 | Corrections and amendments of IMS5GS applicability statements | ROHDE & SCHWARZ | 34.229-2 | 0310 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223498 | Corrections and amendments of IMS5GS applicability statements | ROHDE & SCHWARZ | 34.229-2 | 0310 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223054 | Correction to the description of condition C06 | Keysight Technologies UK Ltd | 34.229-2 | 0311 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223078 | Updates to IMS test case applicabilities | Ericsson | 34.229-2 | 0312 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222076 | Corrections to A.15 | ROHDE & SCHWARZ | 34.229-5 | 0336 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222077 | Corrections to A.4 | ROHDE & SCHWARZ | 34.229-5 | 0337 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222078 | Corrections to A.5 | ROHDE & SCHWARZ | 34.229-5 | 0338 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222079 | Corrections to A.9 | ROHDE & SCHWARZ | 34.229-5 | 0339 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223455 | Corrections to A.9 | ROHDE & SCHWARZ | 34.229-5 | 0339 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222080 | Corrections to initial EVS offers | ROHDE & SCHWARZ, Huawei, HiSilicon | 34.229-5 | 0340 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223456 | Corrections to initial EVS offers | ROHDE & SCHWARZ, Huawei, HiSilicon | 34.229-5 | 0340 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222081 | Corrections to TC 7.1 | ROHDE & SCHWARZ | 34.229-5 | 0341 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222082 | Corrections to TC 7.4 | ROHDE & SCHWARZ, Huawei, HiSilicon | 34.229-5 | 0342 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223457 | Corrections to TC 7.4 | ROHDE & SCHWARZ, Huawei, HiSilicon | 34.229-5 | 0342 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222083 | Corrections to TC 7.4a | ROHDE & SCHWARZ | 34.229-5 | 0343 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223458 | Corrections to TC 7.4a | ROHDE & SCHWARZ | 34.229-5 | 0343 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222084 | Corrections to TC 7.5 | ROHDE & SCHWARZ | 34.229-5 | 0344 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222085 | Corrections to TC 7.6 | ROHDE & SCHWARZ | 34.229-5 | 0345 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222086 | Corrections to TC 7.7 | ROHDE & SCHWARZ | 34.229-5 | 0346 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222087 | Corrections to TC 7.8 | ROHDE & SCHWARZ | 34.229-5 | 0347 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222088 | Corrections to TC 7.9 | ROHDE & SCHWARZ | 34.229-5 | 0348 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222089 | Corrections to TC 7.10 | ROHDE & SCHWARZ | 34.229-5 | 0349 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222090 | Corrections to TC 7.12 | ROHDE & SCHWARZ | 34.229-5 | 0350 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222091 | Corrections to TC 7.13 | ROHDE & SCHWARZ | 34.229-5 | 0351 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222092 | Corrections to TC 7.14 | ROHDE & SCHWARZ | 34.229-5 | 0352 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222093 | Corrections to TC 7.15 | ROHDE & SCHWARZ | 34.229-5 | 0353 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222094 | Corrections to TC 7.17 | ROHDE & SCHWARZ | 34.229-5 | 0354 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222095 | Corrections to TC 7.18 | ROHDE & SCHWARZ | 34.229-5 | 0355 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222096 | Corrections to TC 7.19 | ROHDE & SCHWARZ | 34.229-5 | 0356 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222097 | Corrections to TC 7.20 | ROHDE & SCHWARZ, Huawei, HiSilicon | 34.229-5 | 0357 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223459 | Corrections to TC 7.20 | ROHDE & SCHWARZ, Huawei, HiSilicon | 34.229-5 | 0357 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222098 | Corrections to TC 7.22 | ROHDE & SCHWARZ | 34.229-5 | 0358 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223481 | Corrections to TC 7.22 | ROHDE & SCHWARZ | 34.229-5 | 0358 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222099 | Corrections to TC 7.23 | ROHDE & SCHWARZ | 34.229-5 | 0359 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222100 | Corrections to TC 7.24a | ROHDE & SCHWARZ | 34.229-5 | 0360 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222101 | Corrections to TC 7.24b | ROHDE & SCHWARZ, Keysight Technologies | 34.229-5 | 0361 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222102 | Corrections to TC 7.25 | ROHDE & SCHWARZ | 34.229-5 | 0362 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223460 | Corrections to TC 7.25 | ROHDE & SCHWARZ | 34.229-5 | 0362 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222103 | Corrections to TC 8.6 | ROHDE & SCHWARZ | 34.229-5 | 0363 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223461 | Corrections to TC 8.6 | ROHDE & SCHWARZ | 34.229-5 | 0363 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222104 | Corrections to TC 8.25 | ROHDE & SCHWARZ | 34.229-5 | 0364 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222105 | Corrections to TC 8.27 | ROHDE & SCHWARZ | 34.229-5 | 0365 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222106 | Corrections to TC 8.34 | ROHDE & SCHWARZ | 34.229-5 | 0366 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222107 | Corrections to TC 8.35 | ROHDE & SCHWARZ | 34.229-5 | 0367 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223462 | Corrections to TC 8.35 | ROHDE & SCHWARZ | 34.229-5 | 0367 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222108 | Corrections to TC 8.37 | ROHDE & SCHWARZ | 34.229-5 | 0368 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222109 | Corrections to TC 8.38 | ROHDE & SCHWARZ | 34.229-5 | 0369 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222110 | Corrections to TC 10.4 | ROHDE & SCHWARZ | 34.229-5 | 0370 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222127 | Corrections to IMS over 5GS XCAP test cases | Keysight Technologies UK, Qualcomm | 34.229-5 | 0371 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222128 | Correction to generic procedure A.5.1 | Keysight Technologies UK, Qualcomm | 34.229-5 | 0372 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222268 | Correction to IMS 5GS TC 8.34, 8.35 and 8.36 | Qualcomm CDMA Technologies, Keysight Technologies UK | 34.229-5 | 0373 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223463 | Correction to IMS 5GS TC 8.34, 8.35 and 8.36 | Qualcomm CDMA Technologies, Keysight Technologies UK | 34.229-5 | 0373 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222269 | Corrections to A.21 | Qualcomm CDMA Technologies, Keysight Technologies UK | 34.229-5 | 0374 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222274 | Correction to IMS 5GS TC 8.2 | Qualcomm CDMA Technologies | 34.229-5 | 0375 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222275 | Correction to IMS 5GS TC 10.9 | Qualcomm CDMA Technologies, Anritsu Ltd, MediaTek | 34.229-5 | 0376 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223464 | Correction to IMS 5GS TC 10.9 | Qualcomm CDMA Technologies, Anritsu Ltd, MediaTek | 34.229-5 | 0376 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222276 | Correction to IMS 5GS TC 10.10 | Qualcomm CDMA Technologies, Anritsu Ltd | 34.229-5 | 0377 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223465 | Correction to IMS 5GS TC 10.10 | Qualcomm CDMA Technologies, Anritsu Ltd | 34.229-5 | 0377 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222346 | Corrections to TC 7.21 | ROHDE & SCHWARZ | 34.229-5 | 0378 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222391 | Editorial updates to title of several generic test procedures | MCC TF160 | 34.229-5 | 0379 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222408 | Corrections to TC 10.11 | ROHDE & SCHWARZ | 34.229-5 | 0380 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223466 | Corrections to TC 10.11 | ROHDE & SCHWARZ | 34.229-5 | 0380 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222410 | Correction of A.17 - Generic test procedure for putting a MTSI speech call to hold or to resume the call from the UE / 5GS | MCC TF160 | 34.229-5 | 0381 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222411 | Editorial updates to title of several generic test procedures | MCC TF160 | 34.229-5 | 0382 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222413 | Correction to 5GS IMS Test Case 10.2 | Anritsu Ltd, Qualcomm, Rohde and Schwarz | 34.229-5 | 0383 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223467 | Correction to 5GS IMS Test Case 10.2 | Anritsu Ltd, Qualcomm, Rohde and Schwarz | 34.229-5 | 0383 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222414 | Correction to IMS testcase 10.6 | ANRITSU LTD, Rohde & Schwarz | 34.229-5 | 0384 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223468 | Correction to IMS testcase 10.6 | ANRITSU LTD, Rohde & Schwarz | 34.229-5 | 0384 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222415 | Correction to 5GS IMS test case 7.25 | ANRITSU LTD | 34.229-5 | 0385 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222425 | Corrections to TC 7.25 precondition | Google Inc. | 34.229-5 | 0386 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223349 | Corrections to TC 7.25 precondition | Google Inc. | 34.229-5 | 0386 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222551 | Correction to IMS 5GS TC 7.22 and 7.23 | Qualcomm Incorporated | 34.229-5 | 0387 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223339 | Correction to IMS 5GS TC 7.22 and 7.23 | Qualcomm Incorporated | 34.229-5 | 0387 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222755 | Correction to NR IMS TC 7.1-MO Voice Call with 503 | Huawei, Hisilicon | 34.229-5 | 0388 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223484 | Correction to NR IMS TC 7.1-MO Voice Call with 503 | Huawei, Hisilicon | 34.229-5 | 0388 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222756 | Correction to NR IMS TC 7.4-MO Voice Call with preconditions at both side | Huawei, Hisilicon | 34.229-5 | 0389 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222757 | Correction to NR IMS TC 7.4a-MO Voice Call with preconditions and default Configuration | Huawei, Hisilicon | 34.229-5 | 0390 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222758 | Correction to NR IMS TC 7.5-MO Voice Call without preconditions at both side | Huawei, Hisilicon | 34.229-5 | 0391 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222759 | Correction to NR IMS TC 7.6-MT Voice Call with preconditions at both side | Huawei, Hisilicon | 34.229-5 | 0392 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223469 | Correction to NR IMS TC 7.6-MT Voice Call with preconditions at both side | Huawei, Hisilicon | 34.229-5 | 0392 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222760 | Correction to NR IMS TC 7.7-MT Voice Call without preconditions at both side | Huawei, Hisilicon | 34.229-5 | 0393 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222761 | Correction to NR IMS TC 7.8-MT Voice Call without preconditions at MO UE | Huawei, Hisilicon | 34.229-5 | 0394 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223470 | Correction to NR IMS TC 7.8-MT Voice Call without preconditions at MO UE | Huawei, Hisilicon | 34.229-5 | 0394 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222762 | Correction to NR IMS TC 7.9-MT Voice Call without preconditions at MT UE | Huawei, Hisilicon | 34.229-5 | 0395 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223471 | Correction to NR IMS TC 7.9-MT Voice Call without preconditions at MT UE | Huawei, Hisilicon | 34.229-5 | 0395 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222763 | Correction to NR IMS TC 7.10-MT Voice call without preconditions and without SDP offer | Huawei, Hisilicon | 34.229-5 | 0396 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222764 | Correction to NR IMS TC 7.12-MO Voice Call without preconditions at MT UE | Huawei, Hisilicon | 34.229-5 | 0397 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223485 | Correction to NR IMS TC 7.12-MO Voice Call without preconditions at MT UE | Huawei, Hisilicon | 34.229-5 | 0397 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222765 | Correction to NR IMS TC 7.13-MTSI MT Voice Call with RTCP disabled | Huawei, Hisilicon | 34.229-5 | 0398 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222766 | Correction to NR IMS TC 7.18-MTSI MO Voice Call with AMR-WB Encoded Media | Huawei, Hisilicon | 34.229-5 | 0399 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222767 | Correction to NR IMS TC 7.19-MTSI MO Voice Call with AMR-WB IO Encoded Media | Huawei, Hisilicon | 34.229-5 | 0400 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222768 | Correction to NR IMS TC 7.20-MTSI MO Voice Call\_add video and remove video | Huawei, Hisilicon | 34.229-5 | 0401 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222769 | Correction to NR IMS TC 7.24-UE receives CANCEL request for a forked MT voice call | Huawei, Hisilicon | 34.229-5 | 0402 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223486 | Correction to NR IMS TC 7.24-UE receives CANCEL request for a forked MT voice call | Huawei, Hisilicon | 34.229-5 | 0402 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222770 | Correction to NR IMS TC 7.25-MTSI MT Voice Call without SDP offer in INVITE | Huawei, Hisilicon | 34.229-5 | 0403 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222771 | Correction to NR IMS TC 7.26-Mobile Originating CAT | Huawei, Hisilicon | 34.229-5 | 0404 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223487 | Correction to NR IMS TC 7.26-Mobile Originating CAT | Huawei, Hisilicon | 34.229-5 | 0404 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222772 | Correction to NR IMS TC 7.27-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0405 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223488 | Correction to NR IMS TC 7.27-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0405 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222773 | Correction to NR IMS TC 7.28-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0406 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223489 | Correction to NR IMS TC 7.28-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0406 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222774 | Correction to NR IMS TC 7.29-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0407 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223490 | Correction to NR IMS TC 7.29-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0407 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222775 | Correction to NR IMS TC 7.30-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0408 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223491 | Correction to NR IMS TC 7.30-Session Timer for MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0408 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222776 | Correction to NR IMS TC 7.31-Session Timer for MT Voice Call | Huawei, Hisilicon | 34.229-5 | 0409 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222777 | Correction to NR IMS TC 7.32-Session Timer for MT Voice Call | Huawei, Hisilicon | 34.229-5 | 0410 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222778 | Correction to NR IMS TC 7.33-Session Timer for MT Voice Call | Huawei, Hisilicon | 34.229-5 | 0411 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223472 | Correction to NR IMS TC 7.33-Session Timer for MT Voice Call | Huawei, Hisilicon | 34.229-5 | 0411 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222779 | Correction to NR IMS TC 7.34-Session Timer for MT Voice Call | Huawei, Hisilicon | 34.229-5 | 0412 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223473 | Correction to NR IMS TC 7.34-Session Timer for MT Voice Call | Huawei, Hisilicon | 34.229-5 | 0412 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222780 | Correction to NR IMS TC 8.3-Originating Identification Restriction Signalling 5GS | Huawei, Hisilicon | 34.229-5 | 0413 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223492 | Correction to NR IMS TC 8.3-Originating Identification Restriction Signalling 5GS | Huawei, Hisilicon | 34.229-5 | 0413 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222781 | Correction to NR IMS TC 8.6-Terminating Identification Restriction Signalling 5GS | Huawei, Hisilicon | 34.229-5 | 0414 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223474 | Correction to NR IMS TC 8.6-Terminating Identification Restriction Signalling 5GS | Huawei, Hisilicon | 34.229-5 | 0414 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222782 | Correction to NR IMS TC 8.8-Communication Forwarding Unconditional Signalling 5GS | Huawei, Hisilicon | 34.229-5 | 0415 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223493 | Correction to NR IMS TC 8.8-Communication Forwarding Unconditional Signalling 5GS | Huawei, Hisilicon | 34.229-5 | 0415 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222783 | Correction to NR IMS TC 8.41-Communication Forwarding on No Reply MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0416 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223494 | Correction to NR IMS TC 8.41-Communication Forwarding on No Reply MO Voice Call | Huawei, Hisilicon | 34.229-5 | 0416 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222784 | Correction to NR IMS TC 9.1-MO SMS 5GS | Huawei, Hisilicon | 34.229-5 | 0417 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222785 | Correction to NR IMS TC 9.3-MO Concatenated SMS 5GS | Huawei, Hisilicon | 34.229-5 | 0418 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222786 | Correction to NR IMS TC 9.5-MO SMS RP-ERROR 5GS | Huawei, Hisilicon | 34.229-5 | 0419 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222787 | Correction to EVS configuration in initial SDP offer | Huawei, Hisilicon | 34.229-5 | 0420 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222988 | Update of 5GS IMS test case 10.15 | ZTE Corporation | 34.229-5 | 0421 | - | Rel-15 | F | TEI15\_Test | withdrawn |
| R5-223056 | Corrections to TC 8.40 | ROHDE & SCHWARZ | 34.229-5 | 0422 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223475 | Corrections to TC 8.40 | ROHDE & SCHWARZ | 34.229-5 | 0422 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223079 | Corrections to test case 7.4a | Ericsson | 34.229-5 | 0423 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223080 | Update to test case 7.4 | Ericsson | 34.229-5 | 0424 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223288 | Update for TC 10.9 | MediaTek | 34.229-5 | 0425 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223293 | Update of 5GS IMS test case 10.15 | ZTE Corporation | 34.229-5 | 0426 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223333 | Update to call control test case 7.21 | Qualcomm Incorporated | 34.229-5 | 0427 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223476 | Update to call control test case 7.21 | Qualcomm Incorporated | 34.229-5 | 0427 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222433 | Correction to RB allocation for CEMode B TCs | Rohde & Schwarz | 36.521-1 | 5403 | - | Rel-17 | F | TEI13\_Test, LTE\_MTCe2\_L1-UEConTest | agreed |
| R5-222434 | Addition of missing RMC R.86 TDD | Rohde & Schwarz | 36.521-1 | 5404 | - | Rel-17 | F | TEI15\_Test | agreed |
| R5-222542 | Editorial correction in Refsens CA test case | ROHDE & SCHWARZ | 36.521-1 | 5405 | - | Rel-17 | F | LTE\_CA\_R16-UEConTest | agreed |
| R5-222693 | Update to test applicability for 4G test caes without UL CA | Bureau Veritas | 36.521-1 | 5406 | - | Rel-17 | F | TEI10\_Test | agreed |
| R5-222697 | Editorial correction to NB-IoT performance test cases | Bureau Veritas | 36.521-1 | 5407 | - | Rel-17 | F | TEI13\_Test, NB\_IOT-UEConTest | agreed |
| R5-222698 | Correction to MPR test applicability for category 1bis | Bureau Veritas | 36.521-1 | 5408 | - | Rel-17 | F | TEI13\_Test, LTE\_UE\_cat\_1RX-UEConTest | agreed |
| R5-222184 | Correction to Condition of Applicability for TC9.2.1.7 and TC9.2.1.8 | SGS Wireless | 36.521-2 | 0979 | - | Rel-16 | F | TEI16\_Test | agreed |
| R5-222575 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | 36.521-2 | 0980 | - | Rel-16 | F | TEI16\_Test | revised |
| R5-223868 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | 36.521-2 | 0980 | 1 | Rel-16 | F | TEI16\_Test | agreed |
| R5-222694 | Correction to CA test cases applicability and band selection criteria | Bureau Veritas | 36.521-2 | 0981 | - | Rel-16 | F | TEI10\_Test | agreed |
| R5-222699 | Removal of MPR and A-MPR for category 1bis from applicability table | Bureau Veritas | 36.521-2 | 0982 | - | Rel-16 | F | TEI13\_Test, LTE\_UE\_cat\_1RX-UEConTest | agreed |
| R5-222987 | Update Annex E and F for feMob test cases | ZTE Corporation | 36.521-2 | 0983 | - | Rel-16 | F | LTE\_feMob-UEConTest | withdrawn |
| R5-223194 | Applicability of 6DL and 7DL CA RRM test cases | Ericsson | 36.521-2 | 0984 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223195 | Correction of applicabilty for sTTI test cases | Huawei, HiSilicon | 36.521-2 | 0985 | - | Rel-16 | F | TEI15\_Test, LTE\_sTTIandPT-UEConTest | agreed |
| R5-223242 | Correction to Release of Applicability for TC7.1.3 and TC7.1.4 | Google Inc. | 36.521-2 | 0986 | - | Rel-16 | F | TEI11\_Test | revised |
| R5-223869 | Correction to Release of Applicability for TC7.1.3 and TC7.1.4 | Google Inc. | 36.521-2 | 0986 | 1 | Rel-16 | F | TEI11\_Test | not pursued |
| R5-222569 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | 36.521-3 | 2620 | - | Rel-16 | F | TEI16\_Test | revised |
| R5-223794 | Alignment of euCA RRM testcase numbering according to 36.133 | Nokia, Nokia Shanghai Bell | 36.521-3 | 2620 | 1 | Rel-16 | F | TEI16\_Test | agreed |
| R5-222976 | Update of feMob test case 5.1.42 | ZTE, Tejet, SRTC | 36.521-3 | 2621 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222977 | Update of feMob test case 5.1.43 | ZTE, Tejet, SRTC | 36.521-3 | 2622 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222978 | Update of feMob test case 5.1.44 | ZTE, Tejet, SRTC | 36.521-3 | 2623 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222979 | Update of feMob test case 5.1.45 | ZTE, SRTC, Tejet | 36.521-3 | 2624 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222980 | Update of feMob test case 5.1.46 | ZTE, SRTC, Tejet | 36.521-3 | 2625 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222981 | Update of feMob test case 5.1.53 | ZTE, SRTC, Tejet | 36.521-3 | 2626 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222982 | Update of feMob test case 5.1.54 | ZTE, SRTC, Tejet | 36.521-3 | 2627 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222983 | Update of feMob test case 5.1.55 | ZTE Corporation | 36.521-3 | 2628 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222984 | Update of feMob test case 5.1.56 | ZTE Corporation | 36.521-3 | 2629 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222985 | Update of feMob test case 5.1.57 | ZTE Corporation | 36.521-3 | 2630 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222986 | Update of feMob test case 5.1.58 | ZTE Corporation | 36.521-3 | 2631 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223177 | Correction of Intra frequency conditional handover Test Case 5.1.47 including Test Tolerance | Ericsson | 36.521-3 | 2632 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223178 | Correction of Intra frequency conditional handover Test Case 5.1.48 including Test Tolerance | Ericsson | 36.521-3 | 2633 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223179 | Correction of Inter frequency conditional handover Test Case 5.1.49 including Test Tolerance | Ericsson | 36.521-3 | 2634 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223180 | Correction of Inter frequency conditional handover Test Case 5.1.50 including Test Tolerance | Ericsson | 36.521-3 | 2635 | - | Rel-16 | F | LTE\_feMob-UEConTest | revised |
| R5-223702 | Correction of Inter frequency conditional handover Test Case 5.1.50 including Test Tolerance | Ericsson | 36.521-3 | 2635 | 1 | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223181 | Correction of Inter frequency conditional handover Test Case 5.1.51 including Test Tolerance | Ericsson | 36.521-3 | 2636 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223182 | Correction of Inter frequency conditional handover Test Case 5.1.52 including Test Tolerance | Ericsson | 36.521-3 | 2637 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223183 | Addition of LTE RRM CHO test cases Test Tolerance into Annex F | Ericsson | 36.521-3 | 2638 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223187 | Addition of 6 DL CA Event Triggered Reporting on Deactivated SCell test case 8.16.96 | Ericsson | 36.521-3 | 2639 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | revised |
| R5-223648 | Addition of 6 DL CA Event Triggered Reporting on Deactivated SCell test case 8.16.96 | Ericsson | 36.521-3 | 2639 | 1 | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223188 | Addition of 6 DL CA Activation and Deactivation of Known SCell Test Case 8.16.97 | Ericsson | 36.521-3 | 2640 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223189 | Addition of 6 DL CA Activation and Deactivation of Unknown SCell Test Case 8.16.98 | Ericsson | 36.521-3 | 2641 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223190 | Addition of 7 DL CA Event Triggered Reporting on Deactivated SCell Test Case 8.16.100 | Ericsson | 36.521-3 | 2642 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223191 | Addition of 7 DL CA Activation and Deactivation of Known SCell Test Case 8.16.101 | Ericsson | 36.521-3 | 2643 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223192 | Addition of 7 DL CA Activation and Deactivation of Unknown SCell Test Case 8.16.102 | Ericsson | 36.521-3 | 2644 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223193 | Correction of minimum conformance requirements for RRM 3CC, 4CC and 5CC test cases | Ericsson | 36.521-3 | 2645 | - | Rel-16 | F | LTE\_CA\_R15-UEConTest | agreed |
| R5-223294 | Update Annex E and F for feMob test cases | ZTE Corporation | 36.521-3 | 2646 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222166 | New TC 13.1.23 MCVideo with Dedicated Bearer of QCI 67-Attach-Call setup CO | NIST | 36.523-1 | 5084 | - | Rel-17 | F | TEI15\_Test | revised |
| R5-223447 | New TC 13.1.23 MCVideo with Dedicated Bearer of QCI 67-Attach-Call setup CO | NIST | 36.523-1 | 5084 | 1 | Rel-17 | F | TEI15\_Test | agreed |
| R5-222167 | New TC 13.1.24 MCVideo with Dedicated Bearer of QCI 2-Attach-Call setup CO | NIST | 36.523-1 | 5085 | - | Rel-17 | F | TEI15\_Test | withdrawn |
| R5-222168 | New TC 13.1.25 MCData-Attach-Call setup CO | NIST | 36.523-1 | 5086 | - | Rel-17 | F | TEI15\_Test | revised |
| R5-223448 | New TC 13.1.25 MCData-Attach-Call setup CO | NIST | 36.523-1 | 5086 | 1 | Rel-17 | F | TEI15\_Test | agreed |
| R5-222169 | Adding specs to References for MCData and MCVideo | NIST | 36.523-1 | 5087 | - | Rel-17 | F | TEI15\_Test | agreed |
| R5-222170 | Correction of 36.523-1 TC 13.1.22 MCPTT Call Setup CO | NIST | 36.523-1 | 5088 | - | Rel-17 | F | TEI14\_Test | revised |
| R5-223449 | Correction of 36.523-1 TC 13.1.22 MCPTT Call Setup CO | NIST | 36.523-1 | 5088 | 1 | Rel-17 | F | TEI14\_Test | agreed |
| R5-222386 | Updates to LTE audit TC 8.5.4.1 | MCC TF160 | 36.523-1 | 5089 | - | Rel-17 | F | TEI16\_Test | agreed |
| R5-222416 | Correction to LTE PSM testcases | ANRITSU LTD | 36.523-1 | 5090 | - | Rel-17 | F | TEI12\_Test, MTCe-UEPCOP-UEConTest | agreed |
| R5-222788 | Correction to LTE TC 8.2.4.31.4-Conditional handover | Huawei, Hisilicon | 36.523-1 | 5091 | - | Rel-17 | F | LTE\_feMob-UEConTest | revised |
| R5-223357 | Correction to LTE TC 8.2.4.31.4-Conditional handover | Huawei, Hisilicon | 36.523-1 | 5091 | 1 | Rel-17 | F | LTE\_feMob-UEConTest | agreed |
| R5-222789 | Inclusive Language update 36523-1\_cover | Huawei, Hisilicon | 36.523-1 | 5092 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222790 | Inclusive Language update 36523-1\_s00-s06 | Huawei, Hisilicon | 36.523-1 | 5093 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222791 | Inclusive Language update 36523-1\_s07\_01 | Huawei, Hisilicon | 36.523-1 | 5094 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222792 | Inclusive Language update 36523-1\_s08\_01-s08\_02 | Huawei, Hisilicon | 36.523-1 | 5095 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222793 | Inclusive Language update 36523-1\_s08\_03 | Huawei, Hisilicon | 36.523-1 | 5096 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222794 | Inclusive Language update 36523-1\_s08\_04-s08\_09 | Huawei, Hisilicon | 36.523-1 | 5097 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222795 | Inclusive Language update 36523-1\_s10-s13 | Huawei, Hisilicon | 36.523-1 | 5098 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222796 | Inclusive Language update 36523-1\_s22-s24 | Huawei, Hisilicon | 36.523-1 | 5099 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-223241 | Correction to LTE RACS test case 8.5.5.1 | Qualcomm Incorporated, MCC TF160 | 36.523-1 | 5100 | - | Rel-17 | F | TEI16\_Test, RACS-UEConTest | revised |
| R5-223445 | Correction to LTE RACS test case 8.5.5.1 | Qualcomm Incorporated, MCC TF160 | 36.523-1 | 5100 | 1 | Rel-17 | F | TEI16\_Test, RACS-UEConTest | agreed |
| R5-223243 | Update to EIEI test case 11.3.1 | Qualcomm Incorporated, CETECOM GmbH | 36.523-1 | 5101 | - | Rel-17 | F | TEI14\_Test, EIEI-UEConTest | revised |
| R5-223446 | Update to EIEI test case 11.3.1 | Qualcomm Incorporated, CETECOM GmbH | 36.523-1 | 5101 | 1 | Rel-17 | F | TEI14\_Test, EIEI-UEConTest | agreed |
| R5-222164 | Applicabality Additions for TCs 13.1.23, 13.1.24, and 13.1.1.25 | NIST | 36.523-2 | 1369 | - | Rel-17 | F | TEI15\_Test | revised |
| R5-223450 | Applicabality Additions for TCs 13.1.23, 13.1.24, and 13.1.1.25 | NIST | 36.523-2 | 1369 | 1 | Rel-17 | F | TEI15\_Test | agreed |
| R5-222709 | Inclusive language review for TS 36.523-2 | CATT | 36.523-2 | 1370 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222710 | Inclusive language review for TS 36.523-2 | CATT | 36.523-2 | 1371 | - | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222387 | Inclusive language review for TS 36.523-3 | MCC TF160 | 36.523-3 | 4672 | - | Rel-17 | F | TEI17\_Test | revised |
| R5-223330 | Inclusive language review for TS 36.523-3 | MCC TF160 | 36.523-3 | 4672 | 1 | Rel-17 | F | TEI17\_Test | not pursued |
| R5-222388 | Routine maintenance for TS 36.523-3 | MCC TF160 | 36.523-3 | 4673 | - | Rel-17 | F | TEI13\_Test, NB\_IOT-UEConTest | agreed |
| R5-222141 | New MCData off-network signalling messages in 5.5.3.8 | NIST | 36.579-1 | 0252 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222142 | New MCVideo Off-network Message Defaults 5.5.14 | NIST | 36.579-1 | 0253 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222392 | Addition of clause 5.5.3.15 - Conference-info | MCC TF160 | 36.579-1 | 0254 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222393 | Correction of clause 5.3 - Generic test procedures for UE MCS operation | MCC TF160 | 36.579-1 | 0255 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | revised |
| R5-223477 | Correction of clause 5.3 - Generic test procedures for UE MCS operation | MCC TF160 | 36.579-1 | 0255 | 1 | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222394 | Correction of clause 5.5.2.14 - SIP SUBSCRIBE | MCC TF160 | 36.579-1 | 0256 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222395 | Correction of clause 5.5.3.1 - SDP Message | MCC TF160 | 36.579-1 | 0257 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | withdrawn |
| R5-222396 | Correction of clause 5.5.3.2 - MCS Info Lists | MCC TF160 | 36.579-1 | 0258 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222397 | Correction of clause 5.5.3.6 - SIMPLE-FILTER | MCC TF160 | 36.579-1 | 0259 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | revised |
| R5-223478 | Correction of clause 5.5.3.6 - SIMPLE-FILTER | MCC TF160 | 36.579-1 | 0259 | 1 | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222398 | Correction of clause 5.5.8 - Default MCS configuration management messages and other information elements | MCC TF160 | 36.579-1 | 0260 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222399 | Corrections of clause 5.5.3.1 - SDP message | MCC TF160 | 36.579-1 | 0261 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222400 | Extensions of clause 2 - References | MCC TF160 | 36.579-1 | 0262 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222133 | Correction of 36.579-2 TC 6.2.10 | NIST | 36.579-2 | 0287 | - | Rel-15 | F | TEI14\_Test, MCPTT-ConTest | withdrawn |
| R5-222134 | Correction of 36.579-2 TC 6.2.11 | NIST | 36.579-2 | 0288 | - | Rel-15 | F | TEI14\_Test, MCPTT-ConTest | withdrawn |
| R5-222135 | Correction of 36.579-2 TC 6.2.22 | NIST | 36.579-2 | 0289 | - | Rel-15 | F | MCenhUEConTest | withdrawn |
| R5-222136 | Correction of 36.579-2 TC 6.2.23 | NIST | 36.579-2 | 0290 | - | Rel-15 | F | MCenhUEConTest | withdrawn |
| R5-222137 | Correction of 36.579-2 TC 6.2.26 | NIST | 36.579-2 | 0291 | - | Rel-15 | F | MCenhUEConTest | withdrawn |
| R5-222138 | Correction of 36.579-2 TC 6.2.9 | NIST | 36.579-2 | 0292 | - | Rel-15 | F | TEI14\_Test, MCPTT-ConTest | withdrawn |
| R5-222363 | Correction of test case 6.1.3.1 | MCC TF160 | 36.579-2 | 0293 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222364 | Correction of test case 6.1.4.1 | MCC TF160 | 36.579-2 | 0294 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222365 | Correction of test case 6.1.4.2 | MCC TF160 | 36.579-2 | 0295 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222366 | Correction of test case 6.1.5.1 | MCC TF160 | 36.579-2 | 0296 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222367 | Correction of test case 6.1.5.2 | MCC TF160 | 36.579-2 | 0297 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222368 | Correction of test case 6.2.18 | MCC TF160 | 36.579-2 | 0298 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222369 | Correction of test case 6.2.19 | MCC TF160 | 36.579-2 | 0299 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222401 | Common corrections of MCPTT private call test cases | MCC TF160 | 36.579-2 | 0300 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222402 | Correction of MCPTT Test Case 5.3 | MCC TF160 | 36.579-2 | 0301 | - | Rel-15 | F | TEI14\_Test, MCPTT-ConTest | agreed |
| R5-222163 | Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases | NIST | 36.579-4 | 0023 | - | Rel-15 | F | MCenhUEConTest | revised |
| R5-223384 | Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases | NIST | 36.579-4 | 0023 | 1 | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222403 | Misc. updates to MC client test cases | MCC TF160 | 36.579-4 | 0024 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | withdrawn |
| R5-222149 | New MCVIDEO OFF-NETWORK TC 7.1.1.1 Off-network Basic Group Call CO | NIST | 36.579-6 | 0047 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222150 | New MCVIDEO OFF-NETWORK TC 7.1.1.2 Off-network Basic Group Call CT | NIST | 36.579-6 | 0048 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222151 | New MCVIDEO OFF-NETWORK TC 7.1.1.3 Off-network Emergency Call CO | NIST | 36.579-6 | 0049 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222152 | New MCVIDEO OFF-NETWORK TC 7.1.1.4 Off-network Emergency Call CT | NIST | 36.579-6 | 0050 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222153 | New MCVIDEO OFF-NETWORK TC 7.1.1.5 Off-network Imminent Peril Call CO | NIST | 36.579-6 | 0051 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222154 | New MCVIDEO OFF-NETWORK TC 7.1.1.6 Off-network Imminent Peril Call CT | NIST | 36.579-6 | 0052 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222155 | New MCVIDEO OFF-NETWORK TC 7.1.2.1 Off-network Broadcast Call CO | NIST | 36.579-6 | 0053 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222156 | New MCVIDEO OFF-NETWORK TC 7.1.2.2 Off-network Broadcast Call CT | NIST | 36.579-6 | 0054 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222157 | New MCVIDEO OFF-NETWORK TC 7.2.1 Off-network Auto Private Call CO | NIST | 36.579-6 | 0055 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222158 | New MCVIDEO OFF-NETWORK TC 7.2.2 Off-network Auto Private Call CT | NIST | 36.579-6 | 0056 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222159 | New MCVIDEO OFF-NETWORK TC 7.2.3 Off-network Manual Private Call CO | NIST | 36.579-6 | 0057 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222160 | New MCVIDEO OFF-NETWORK TC 7.2.4 Off-network Manual Private Call CT | NIST | 36.579-6 | 0058 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222161 | New MCVIDEO OFF-NETWORK TC 7.3.1 Off-network Emergency Alert CO | NIST | 36.579-6 | 0059 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222162 | New MCVIDEO OFF-NETWORK TC 7.3.2 Off-network Emergency Alert CT | NIST | 36.579-6 | 0060 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222370 | Correction of Emergency Alert Test Cases in clause 6.3 | MCC TF160 | 36.579-6 | 0061 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222371 | Correction of MCVideo Test Cases clause 6.7 | MCC TF160 | 36.579-6 | 0062 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222372 | Correction of test case 6.1.4.1 | MCC TF160 | 36.579-6 | 0063 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222373 | Correction of test case 6.1.4.2 | MCC TF160 | 36.579-6 | 0064 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222374 | Correction of Video Pull Test Cases in clause 6.4 | MCC TF160 | 36.579-6 | 0065 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222375 | Correction of Video Push Test Cases in clause 6.5 | MCC TF160 | 36.579-6 | 0066 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222404 | Correction of Group Call Test Cases in clause 6.1 | MCC TF160 | 36.579-6 | 0067 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222405 | Correction of Private Call Test Cases in clause 6.2 | MCC TF160 | 36.579-6 | 0068 | - | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | revised |
| R5-223479 | Correction of Private Call Test Cases in clause 6.2 | MCC TF160 | 36.579-6 | 0068 | 1 | Rel-15 | F | TEI14\_Test, MCImp-UEConTest | agreed |
| R5-222143 | New MCData Test Case 7.1.1 Off-network SDS 1-to-1 call CO | NIST | 36.579-7 | 0022 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222144 | New MCData Test Case 7.1.2 Off-network SDS 1-to-1 call CT | NIST | 36.579-7 | 0023 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222145 | New MCData Test Case 7.1.3 Off-network SDS group call CO | NIST | 36.579-7 | 0024 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222146 | New MCData Test Case 7.1.4 Off-network SDS group call CT | NIST | 36.579-7 | 0025 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222147 | New MCData Test Case 7.2.1 Off-network Enhanced Status CO | NIST | 36.579-7 | 0026 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-222148 | New MCData Test Case 7.2.2 Off-network Enhanced Status CT | NIST | 36.579-7 | 0027 | - | Rel-15 | F | MCenhUEConTest | agreed |
| R5-223175 | Test Tolerances for E-UTRAN intra-frequency Conditional Handover test cases | Ericsson | 36.903 | 0445 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-223176 | Test Tolerances for E-UTRAN inter-frequency Conditional Handover test cases | Ericsson | 36.903 | 0446 | - | Rel-16 | F | LTE\_feMob-UEConTest | agreed |
| R5-222596 | Addition of measurement period requirements in Multi-RTT test conditions, DL-TDOA test conditions and DL-AoD test conditions | CATT | 37.571-1 | 0368 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222597 | Correction of NR RSTD test cases 14.2.1, 14.2.2, 14.3.1 and 14.3.2 | CATT | 37.571-1 | 0369 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222598 | Addition of SRS configuration in UE Rx-Tx time difference measurement period test cases | CATT,X-Net | 37.571-1 | 0370 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222599 | Addition of new RSTD accuracy test case 14.2.3 | CATT | 37.571-1 | 0371 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222600 | Addition of new RSTD accuracy test case 14.2.4 | CATT | 37.571-1 | 0372 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222601 | Addition of new RSTD accuracy test case 14.3.3 | CATT | 37.571-1 | 0373 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222602 | Addition of new RSTD accuracy test case 14.3.4 | CATT | 37.571-1 | 0374 | - | Rel-16 | F | NR\_pos-UEConTest | revised |
| R5-223748 | Addition of new RSTD accuracy test case 14.3.4 | CATT | 37.571-1 | 0374 | 1 | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222603 | Addition of new UE Rx-TX time difference accuracy test case 15.3.1 | CATT, X-Net | 37.571-1 | 0375 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222604 | Addition of new UE Rx-TX time difference accuracy test case 15.3.2 | CATT, X-Net | 37.571-1 | 0376 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222605 | Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer | CATT | 37.571-2 | 0158 | - | Rel-16 | F | NR\_pos-UEConTest | revised |
| R5-223388 | Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer | CATT | 37.571-2 | 0158 | 1 | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222606 | Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset | CATT | 37.571-2 | 0159 | - | Rel-16 | F | NR\_pos-UEConTest | revised |
| R5-223389 | Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset | CATT | 37.571-2 | 0159 | 1 | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222607 | Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer | CATT | 37.571-2 | 0160 | - | Rel-16 | F | NR\_pos-UEConTest | revised |
| R5-223390 | Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer | CATT | 37.571-2 | 0160 | 1 | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222608 | Addition of test applicabilities for RSTD and NR UE Rx-Tx time difference accuracy measurement test cases | CATT | 37.571-3 | 0152 | - | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222609 | Addition of test applicabilities for positioning SI messages offset test case | CATT | 37.571-3 | 0153 | - | Rel-16 | F | NR\_pos-UEConTest | revised |
| R5-223391 | Addition of test applicabilities for positioning SI messages offset test case | CATT | 37.571-3 | 0153 | 1 | Rel-16 | F | NR\_pos-UEConTest | agreed |
| R5-222521 | Addition of QZSS to the updated GNSS scenarios | ROHDE & SCHWARZ | 37.571-5 | 0215 | - | Rel-16 | F | TEI16\_Test | agreed |
| R5-222564 | Updates to A.7.1.1.1 and A.9.1.1.1 test points | Qualcomm Austria RFFE GmbH | 37.901-5 | 0029 | - | Rel-16 | F | TEI15\_Test, FS\_UE\_5GNR\_App\_Data\_Perf | agreed |
| R5-222122 | Correction for Procedure for UE-requested PDU session modification after the first S1 to N1 mode change | Keysight Technologies UK | 38.508-1 | 2294 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222132 | Addition of SIB11 to common environment for early measurements | Nokia, Nokia Shanghai Bell | 38.508-1 | 2295 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223399 | Addition of SIB11 to common environment for early measurements | Nokia, Nokia Shanghai Bell | 38.508-1 | 2295 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222173 | Introduction of test frequencies for CA\_n77C BCS0 and BCS1 | Ericsson | 38.508-1 | 2296 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222175 | Introduction of test frequencies for CA\_n77C for protocol testing | Ericsson | 38.508-1 | 2297 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222209 | Correction of test channel bandwidth | CAICT | 38.508-1 | 2298 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | withdrawn |
| R5-222265 | Resolving test frequency for n53 10 Mhz CBW | Qualcomm CDMA Technologies | 38.508-1 | 2299 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223416 | Resolving test frequency for n53 10 Mhz CBW | Qualcomm CDMA Technologies | 38.508-1 | 2299 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222283 | Introduction of test frequencies for Rel-16 inter-band EN-DC three band combinations within FR1 | Nokia, Nokia Shanghai Bell | 38.508-1 | 2300 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222307 | Introduction of test frequencies for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.508-1 | 2301 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223755 | Introduction of test frequencies for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.508-1 | 2301 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222308 | Introduction of NR-DC in FR1 for test setup diagrams | Nokia, Nokia Shanghai Bell | 38.508-1 | 2302 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222329 | Correction of test frequencies for CA\_n66(2A) BCS1 and BCS2 | Keysight Technologies UK Ltd | 38.508-1 | 2303 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222330 | Editorial correction of test frequencies for CA\_n77(2A) | Keysight Technologies UK Ltd | 38.508-1 | 2304 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | withdrawn |
| R5-222348 | Update of test channel BWs for n2 due to introduction of CWBs 25 30 and 40 MHz | Ericsson | 38.508-1 | 2305 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | withdrawn |
| R5-222349 | Update of test channel BWs for n5 due to introduction of CWB 25 MHz | Ericsson | 38.508-1 | 2306 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | revised |
| R5-223642 | Update of test channel BWs for n5 due to introduction of CWB 25 MHz | Ericsson | 38.508-1 | 2306 | 1 | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | withdrawn |
| R5-222379 | Editorial updates to SIBs | MCC TF160 | 38.508-1 | 2307 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223414 | Editorial updates to SIBs | MCC TF160 | 38.508-1 | 2307 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222380 | Updating RRCReconfiguration and RadioBearerConfig for NR-DC and NE-DC | MCC TF160 | 38.508-1 | 2308 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222409 | Update IE SIB3 | Ericsson | 38.508-1 | 2309 | - | Rel-17 | F | TEI17\_Test | withdrawn |
| R5-222431 | Correction to message contents for CQI reporting | Rohde & Schwarz | 38.508-1 | 2310 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222432 | Addition of message content exceptions for Demod and CSI tests | Rohde & Schwarz | 38.508-1 | 2311 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222460 | Updates to REGISTRATION ACCEPT message | CMCC | 38.508-1 | 2312 | - | Rel-17 | F | eNS\_Ph2-UEConTest | agreed |
| R5-222461 | Updates to Configuration Update Command message | CMCC | 38.508-1 | 2313 | - | Rel-17 | F | eNS\_Ph2-UEConTest | agreed |
| R5-222462 | Updates to Registration Reject message | CMCC | 38.508-1 | 2314 | - | Rel-17 | F | eNS\_Ph2-UEConTest | agreed |
| R5-222463 | Updates to De-registration Request message | CMCC | 38.508-1 | 2315 | - | Rel-17 | F | eNS\_Ph2-UEConTest | agreed |
| R5-222464 | Update of Combinations of system information blocks for NE-DC | CMCC | 38.508-1 | 2316 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222502 | Addition of test frequency for performance test cases | Anritsu | 38.508-1 | 2317 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222503 | Addition of locationAndBandwidth for BW 45 MHz | Anritsu | 38.508-1 | 2318 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222512 | Correction to generic procedure 4.9.28 | Keysight Technologies UK, Rohde & Schwarz | 38.508-1 | 2319 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222513 | Editorial update RRCReconfiguration | Ericsson | 38.508-1 | 2320 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222537 | Corrections to Table 7.3.1-12G | ROHDE & SCHWARZ | 38.508-1 | 2321 | - | Rel-17 | F | TEI15\_Test | agreed |
| R5-222547 | Correction to test frequency for n53 | ROHDE & SCHWARZ | 38.508-1 | 2322 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223792 | Correction to test frequency for n53 | ROHDE & SCHWARZ | 38.508-1 | 2322 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222555 | CR on Permitted Methodologies and Applicability | Keysight Technologies UK Ltd | 38.508-1 | 2323 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223795 | CR on Permitted Methodologies and Applicability | Keysight Technologies UK Ltd | 38.508-1 | 2323 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222565 | Update IE P-Max | Ericsson | 38.508-1 | 2324 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222566 | Editorial update IE FreqBandList | Ericsson | 38.508-1 | 2325 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222567 | Editorial update IE CellGroupConfig | Ericsson | 38.508-1 | 2326 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222568 | Editorial update IE CellGroupId | Ericsson | 38.508-1 | 2327 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222570 | Editorial update IE PDCCH-ConfigCommon | Ericsson | 38.508-1 | 2328 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222572 | Addition of CA configuration for CA\_n29A-n71A | WE Certification Oy, DISH Network | 38.508-1 | 2329 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222610 | Addition of scheduling information for positioning system information blocks | CATT | 38.508-1 | 2330 | - | Rel-17 | F | NR\_pos-UEConTest | revised |
| R5-223387 | Addition of scheduling information for positioning system information blocks | CATT | 38.508-1 | 2330 | 1 | Rel-17 | F | NR\_pos-UEConTest | agreed |
| R5-222617 | Addition of default message contents for NR SL Demod | Huawei,Hisilicon | 38.508-1 | 2331 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222641 | Addition of test frequency for NR SL concurrent | Huawei,Hisilicon | 38.508-1 | 2332 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223359 | Addition of test frequency for NR SL concurrent | Huawei,Hisilicon | 38.508-1 | 2332 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222642 | Correction to default configuration of SCI | Huawei,Hisilicon | 38.508-1 | 2333 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223360 | Correction to default configuration of SCI | Huawei,Hisilicon | 38.508-1 | 2333 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222643 | Correction to sidelink IE SL-BWP-PoolConfig | Huawei,Hisilicon | 38.508-1 | 2334 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223361 | Correction to sidelink IE SL-BWP-PoolConfig | Huawei,Hisilicon | 38.508-1 | 2334 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222644 | Correction to sidelink IE SL-BWP-PoolConfigCommon | Huawei,Hisilicon | 38.508-1 | 2335 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223362 | Correction to sidelink IE SL-BWP-PoolConfigCommon | Huawei,Hisilicon | 38.508-1 | 2335 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222645 | Correction to sidelink IE SL-FreqConfig | Huawei,Hisilicon | 38.508-1 | 2336 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223363 | Correction to sidelink IE SL-FreqConfig | Huawei,Hisilicon | 38.508-1 | 2336 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222646 | Correction to sidelink IE SL-FreqConfigCommon | Huawei,Hisilicon | 38.508-1 | 2337 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223364 | Correction to sidelink IE SL-FreqConfigCommon | Huawei,Hisilicon | 38.508-1 | 2337 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222647 | Correction to sidelink IE SL-ReportConfigList | Huawei,Hisilicon | 38.508-1 | 2338 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222648 | Correction to test procedures for unicast link establishment | Huawei,Hisilicon | 38.508-1 | 2339 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223365 | Correction to test procedures for unicast link establishment | Huawei,Hisilicon | 38.508-1 | 2339 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222649 | Addition of abbreviations for RedCap test | Huawei,Hisilicon | 38.508-1 | 2340 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223410 | Addition of abbreviations for RedCap test | Huawei,Hisilicon | 38.508-1 | 2340 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222650 | Correction to general functional requirements for RedCap test | Huawei,Hisilicon | 38.508-1 | 2341 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222651 | Correction to generic procedure for RedCap test | Huawei,Hisilicon | 38.508-1 | 2342 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-222652 | Correction to Radio reference configurations for RedCap test | Huawei,Hisilicon | 38.508-1 | 2343 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223354 | Correction to Radio reference configurations for RedCap test | Huawei,Hisilicon | 38.508-1 | 2343 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-222657 | Editorial update IE SCellIndex | Ericsson | 38.508-1 | 2344 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222691 | Modification of SIB1 in common environment for idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.508-1 | 2345 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | withdrawn |
| R5-222818 | Correction to V2X message | Huawei, Hisilicon | 38.508-1 | 2346 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222821 | Update SIB1 for RedCap test | Huawei, Hisilicon | 38.508-1 | 2347 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223411 | Update SIB1 for RedCap test | Huawei, Hisilicon | 38.508-1 | 2347 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | not pursued |
| R5-222822 | Update SIB2 and SIB4 for RedCap test | Huawei, Hisilicon | 38.508-1 | 2348 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-222823 | Update the SN-FiledLengh of PDCP-Config and RLC-Config for RedCap test | Huawei, Hisilicon | 38.508-1 | 2349 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223412 | Update the SN-FiledLengh of PDCP-Config and RLC-Config for RedCap test | Huawei, Hisilicon | 38.508-1 | 2349 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | not pursued |
| R5-222824 | Update RRCReconfiguration and UEAssistanceInformation for RedCap test | Huawei, Hisilicon | 38.508-1 | 2350 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-222825 | Add initialDownlinkBWP-RedCap into initialDownlinkBWP for RedCap test | Huawei, Hisilicon | 38.508-1 | 2351 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-222826 | Add initialUplinkBWP-RedCap into initialUplinkBWP for RedCap test | Huawei, Hisilicon | 38.508-1 | 2352 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-222835 | Correction to Combinations of system information blocks | ROHDE & SCHWARZ | 38.508-1 | 2353 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223417 | Correction to Combinations of system information blocks | ROHDE & SCHWARZ | 38.508-1 | 2353 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222836 | Clarification of Annex C for calculation of SSB and CORESET#0 for PCells | Ericsson | 38.508-1 | 2354 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222842 | Add Default configuration for DCI format 4\_0 scheduling MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2355 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222843 | Add Default configuration for DCI format 4\_1 scheduling MBS Multicast test | Huawei, Hisilicon | 38.508-1 | 2356 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222844 | Add test procedures for MBS Multicast test | Huawei, Hisilicon | 38.508-1 | 2357 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222845 | Update MBS related parameters into PDU session establishment request | Huawei, Hisilicon | 38.508-1 | 2358 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222846 | Update MBS related parameters into PDU session establishment accept | Huawei, Hisilicon | 38.508-1 | 2359 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222847 | Update MBS related parameters into PDU session modification request | Huawei, Hisilicon | 38.508-1 | 2360 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222848 | Update MBS related parameters into PDU session modification command | Huawei, Hisilicon | 38.508-1 | 2361 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222849 | Add SI combination for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2362 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222850 | Add SIB20 for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2363 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222851 | Add SIB21 for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2364 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222852 | Add MBSBroadcastConfiguration for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2365 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222853 | Add MBSInterestIndication for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2366 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222854 | Add MBS information elements for MBS test | Huawei, Hisilicon | 38.508-1 | 2367 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222855 | Add PICS for MBS test | Huawei, Hisilicon | 38.508-1 | 2368 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-222875 | Clarification of PCC and SCC configuration for CA test cases | Huawei, HiSilicon, CMCC | 38.508-1 | 2369 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223793 | Clarification of PCC and SCC configuration for CA test cases | Huawei, HiSilicon, CMCC | 38.508-1 | 2369 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222876 | Removing redundant ciphering algorithm for SDR testing | Huawei, HiSilicon, Bureau Veritas | 38.508-1 | 2370 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222905 | Addition of RedCap default test channel bandwidth | Huawei, HiSilicon | 38.508-1 | 2371 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223784 | Addition of RedCap default test channel bandwidth | Huawei, HiSilicon | 38.508-1 | 2371 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222917 | Connection diagram for 1x2 nDLCA Demodulation and CSI cases | QUALCOMM Europe Inc. - Italy | 38.508-1 | 2372 | - | Rel-17 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222924 | Addition of connection diagram for Tx Diversity support | Huawei, HiSilicon | 38.508-1 | 2373 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222933 | Update of auxiliary procedure 4.5A.2B | MediaTek Inc. | 38.508-1 | 2374 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222989 | Update of Test procedure for IMS MO Emergency call release | ZTE Corporation | 38.508-1 | 2375 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223341 | Update of Test procedure for IMS MO Emergency call release | ZTE Corporation | 38.508-1 | 2375 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223025 | Update of NR inter-band CA configurations in FR1 | China Unicom | 38.508-1 | 2376 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223033 | Add new messages and procedure for test function to limit Pcell Power | Apple Portugal | 38.508-1 | 2377 | - | Rel-17 | F | TEI16\_Test | revised |
| R5-223796 | Add new messages and procedure for test function to limit Pcell Power | Apple Portugal | 38.508-1 | 2377 | 1 | Rel-17 | F | TEI16\_Test | agreed |
| R5-223067 | Addition of test frequency for NR inter-band CA configurations including n1 | NTT DOCOMO INC. | 38.508-1 | 2378 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223072 | Introduction of test frequencies for CA\_n258G for protocol testing | Ericsson | 38.508-1 | 2379 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223081 | Updates to Test procedure 4.9.15 | Ericsson | 38.508-1 | 2380 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223413 | Updates to Test procedure 4.9.15 | Ericsson | 38.508-1 | 2380 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223082 | Updates to Data-off condition for PDU SESSION ESTABLISHMENT REQUEST message | Ericsson | 38.508-1 | 2381 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223415 | Updates to Data-off condition for PDU SESSION ESTABLISHMENT REQUEST message | Ericsson | 38.508-1 | 2381 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223084 | Corrections to usages of Annex A.6 of TS 34.229-5 | ROHDE & SCHWARZ | 38.508-1 | 2382 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223089 | Introduction of test frequencies for 2 band EN-DC configurations | Ericsson | 38.508-1 | 2383 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | withdrawn |
| R5-223092 | Add Default configuration for DCI format 4\_0 scheduling MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2384 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223093 | Add Default configuration for DCI format 4\_1 scheduling MBS Multicast test | Huawei, Hisilicon | 38.508-1 | 2385 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223094 | Add test procedures for MBS Multicast test | Huawei, Hisilicon | 38.508-1 | 2386 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223095 | Update MBS related parameters into PDU session establishment request | Huawei, Hisilicon | 38.508-1 | 2387 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223096 | Update MBS related parameters into PDU session establishment accept | Huawei, Hisilicon | 38.508-1 | 2388 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223097 | Update MBS related parameters into PDU session modification request | Huawei, Hisilicon | 38.508-1 | 2389 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223098 | Update MBS related parameters into PDU session modification command | Huawei, Hisilicon | 38.508-1 | 2390 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223099 | Add SI combination for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2391 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223100 | Add SIB20 for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2392 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223101 | Add SIB21 for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2393 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223102 | Add MBSBroadcastConfiguration for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2394 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223103 | Add MBSInterestIndication for MBS Broadcast test | Huawei, Hisilicon | 38.508-1 | 2395 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223104 | Add MBS information elements for MBS test | Huawei, Hisilicon | 38.508-1 | 2396 | - | Rel-17 | F | NR\_MBS-UEConTest | withdrawn |
| R5-223126 | Introducing band configuration DC\_20A\_n257A | Huawei, Hisilicon | 38.508-1 | 2397 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223156 | Introduction of test frequencies for 3 band EN-DC configurations | Ericsson | 38.508-1 | 2398 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223649 | Introduction of test frequencies for 3 band EN-DC configurations | Ericsson | 38.508-1 | 2398 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223158 | Editorial update IE ServCellIndex | Ericsson | 38.508-1 | 2399 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223196 | Introduction of test frequencies for additional Rel-16 NR CA DC and EN-DC inter-band configurations | Verizon Switzerland AG | 38.508-1 | 2400 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223650 | Introduction of test frequencies for additional Rel-16 NR CA DC and EN-DC inter-band configurations | Verizon Switzerland AG | 38.508-1 | 2400 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223197 | Introduction of test frequencies for additional Rel-17 NR CA and EN-DC inter-band configurations | Verizon Switzerland AG | 38.508-1 | 2401 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223200 | Corrections on mandatory channel bandwidths after Rel-15 | Keysight technologies UK Ltd | 38.508-1 | 2402 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223480 | Corrections on mandatory channel bandwidths after Rel-15 | Keysight technologies UK Ltd | 38.508-1 | 2402 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223222 | Correction to 4.3.1.1.2.1 on test frequencies for NR inter-band CA configurations in FR1 with two bands | ZTE Corporation | 38.508-1 | 2403 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223223 | Correction to 4.3.1.1.2.2 on test frequencies for NR inter-band CA configurations in FR1 with three bands | ZTE Corporation | 38.508-1 | 2404 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223224 | Correction to 4.3.1.1.5.66 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n66 with class 2A | ZTE Corporation | 38.508-1 | 2405 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223225 | Correction to 4.3.1.1.5.71 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n71 with class 2A | ZTE Corporation | 38.508-1 | 2406 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223226 | Correction to 4.3.1.1.5.77 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n77 with class 2A | ZTE Corporation, Keysight Technologies | 38.508-1 | 2407 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223651 | Correction to 4.3.1.1.5.77 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n77 with class 2A | ZTE Corporation, Keysight Technologies | 38.508-1 | 2407 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223227 | Correction to 4.3.1.1.5.78 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n78 with class 2A | ZTE Corporation | 38.508-1 | 2408 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223652 | Correction to 4.3.1.1.5.78 on test frequencies for NR intra-band non-contiguous CA configurations of CA\_n78 with class 2A | ZTE Corporation | 38.508-1 | 2408 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223228 | Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R16 configurations | ZTE Corporation | 38.508-1 | 2409 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223653 | Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R16 configurations | ZTE Corporation | 38.508-1 | 2409 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223229 | Correction to 4.3.1.4.1.3 on test frequencies for inter-band EN-DC R17 configurations with three bands | ZTE Corporation | 38.508-1 | 2410 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223234 | Editorial correction to 4.3.1.2.2 on test frequencies for NR inter-band CA configurations in FR2 for CA\_n260-n261 | ZTE Corporation | 38.508-1 | 2411 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223250 | Hardcoding USIM configurations | Qualcomm India Pvt Ltd | 38.508-1 | 2412 | - | Rel-17 | F | NR\_EIEI-UEConTest | agreed |
| R5-223276 | Correction to test procedure 4.9.11 | Qualcomm Incorporated, ROHDE & SCHWARZ | 38.508-1 | 2413 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223290 | Modification of SIB1 in common environment for idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.508-1 | 2414 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223400 | Modification of SIB1 in common environment for idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.508-1 | 2414 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-223602 | Correction to 4.3.1.4.1.3 on test frequencies for DC\_1A-28A\_n78C | ZTE Corporation | 38.508-1 | 2415 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222208 | Alignment of of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3 | CAICT | 38.508-2 | 0319 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223797 | Alignment of of EN-DC Physical Layer Baseline Implementation Capabilities with 38.521-3 | CAICT | 38.508-2 | 0319 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222266 | Addition of new PICS for 3GPP PS Data off | Qualcomm CDMA Technologies | 38.508-2 | 0320 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222284 | Introduction of Rel-16 inter-band EN-DC three band configurations within FR1 for physical layer baseline implementation capabilities | Nokia, Nokia Shanghai Bell | 38.508-2 | 0321 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222459 | Addition of UE capability for NSSRG | CMCC | 38.508-2 | 0322 | - | Rel-17 | F | eNS\_Ph2-UEConTest | agreed |
| R5-222573 | Addition of CA\_n29A-n71A applicability | WE Certification Oy, DISH Network | 38.508-2 | 0323 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222618 | Addition of PICS for NR SL Demod TCs | Huawei,Hisilicon | 38.508-2 | 0324 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222634 | Addition of PICS for NR HST RRM TCs | Huawei,Hisilicon | 38.508-2 | 0325 | - | Rel-17 | F | NR\_HST-UEConTest | revised |
| R5-223721 | Addition of PICS for NR HST RRM TCs | Huawei,Hisilicon | 38.508-2 | 0325 | 1 | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222695 | Addition of table for NR UL MIMO Capabilities | Bureau Veritas, Huawei, HiSilicon | 38.508-2 | 0326 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222817 | Add PICS for PUCCH Scell | Huawei, Hisilicon | 38.508-2 | 0327 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222827 | Add PICS for RedCap test | Huawei, Hisilicon | 38.508-2 | 0328 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222877 | Limiting MBR relaxation reporting to Rel-15 only | Huawei, HiSilicon, Bureau Veritas | 38.508-2 | 0329 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222925 | Addition of physical layer baseline capability for Tx Diversity support | Huawei, HiSilicon | 38.508-2 | 0330 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | withdrawn |
| R5-222947 | Addition of PICS for NR-V2X new test cases | Lenovo | 38.508-2 | 0331 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | withdrawn |
| R5-222950 | Introduce and update PICS | Lenovo, Qualcomm | 38.508-2 | 0332 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222996 | Addition of Measurement Capabilities for Idle/Inactive measurements testcase | TDIA, CATT | 38.508-2 | 0333 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223401 | Addition of Measurement Capabilities for Idle/Inactive measurements testcase | TDIA, CATT | 38.508-2 | 0333 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-223046 | Update of ICS baseline for CA configurations | China Unicom | 38.508-2 | 0334 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223070 | Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | 38.508-2 | 0335 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223733 | Addition of UE capabilities for Rel-17 NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | 38.508-2 | 0335 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223105 | Add PICS for MBS test | Huawei, Hisilicon | 38.508-2 | 0336 | - | Rel-17 | F | NR\_MBS-UEConTest | agreed |
| R5-223106 | Introduction of UE capabilities for 2 band EN-DC configurations | Ericsson | 38.508-2 | 0337 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223654 | Introduction of UE capabilities for 2 band EN-DC configurations | Ericsson | 38.508-2 | 0337 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223127 | Introducing R17 band configuration DC\_20A\_n257A | Huawei, Hisilicon | 38.508-2 | 0338 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223157 | Introduction of UE capabilities for additional Rel-17 EN-DC configurations with PC2 band | Verizon Switzerland AG | 38.508-2 | 0339 | - | Rel-17 | F | ENDC\_UE\_PC2\_R17\_NR\_TDD-UEConTest | agreed |
| R5-223163 | Addition of PICS for TxD | CMCC | 38.508-2 | 0340 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223772 | Addition of PICS for TxD | CMCC | 38.508-2 | 0340 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-223164 | Introduction of UE capabilities for 3 band EN-DC configurations | Ericsson | 38.508-2 | 0341 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223184 | Addition of Condition for FR1 DL Interruptions test cases applicability | Ericsson | 38.508-2 | 0342 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | withdrawn |
| R5-223212 | Introduction of UE capabilities for additional Rel-17 NR CA and EN-DC configurations | Verizon Switzerland AG | 38.508-2 | 0343 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223233 | Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities | ZTE Corporation | 38.508-2 | 0344 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223798 | Correction to A.4.3.2C for NR SUL physical layer baseline implementation capabilities | ZTE Corporation | 38.508-2 | 0344 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223236 | Editorial correction to A.4.3.1 for RF baseline implementation capabilities | ZTE Corporation | 38.508-2 | 0345 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223799 | Editorial correction to A.4.3.1 for RF baseline implementation capabilities | ZTE Corporation | 38.508-2 | 0345 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223237 | Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability | ZTE Corporation | 38.508-2 | 0346 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223800 | Editorial correction to A.4.3.9 for Additional capabilities for UE declared capability | ZTE Corporation | 38.508-2 | 0346 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223239 | Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies | ZTE Corporation | 38.508-2 | 0347 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223801 | Update to A.4.1 for addition of inter-band NE-DC within FR1 for NSA DC UE radio technologies | ZTE Corporation | 38.508-2 | 0347 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223253 | Correction pc\_dynamicPowerSharing to align with 38.306 | Google Inc. | 38.508-2 | 0348 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223269 | Addition of PICS for CLI | Qualcomm Austria RFFE GmbH | 38.508-2 | 0349 | - | Rel-17 | F | NR\_CLI-UEConTest | withdrawn |
| R5-223301 | Removal of redundant condition for FR1 DL Interruptions test cases applicability | Ericsson | 38.508-2 | 0350 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222381 | Update UE location information | MCC TF160 | 38.509 | 0059 | - | Rel-15 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223031 | Addition of new test function to limit Pcell power | Apple Portugal | 38.509 | 0060 | - | Rel-17 | A | TEI16\_Test | revised |
| R5-223802 | Addition of new test function to limit Pcell power | Apple Portugal | 38.509 | 0060 | 1 | Rel-17 | A | TEI16\_Test | agreed |
| R5-223032 | Addition of new test function to limit Pcell power | Apple Portugal | 38.509 | 0061 | - | Rel-16 | B | TEI16\_Test | revised |
| R5-223803 | Addition of new test function to limit Pcell power | Apple Portugal | 38.509 | 0061 | 1 | Rel-16 | B | TEI16\_Test | agreed |
| R5-222174 | Correction to n46 ARFCN | ROHDE & SCHWARZ | 38.521-1 | 1616 | - | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222200 | Removing the empty space in the table number of Table 7.3.2.3-1a and correct the style of table title of Table 7.3.2.3-1b | CAICT | 38.521-1 | 1617 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222201 | Correction of test metric of out of band emission for UL MIMO | CAICT | 38.521-1 | 1618 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222202 | Correction of Test Environment in Table 6.5A.2.2.1.4.1-2 | CAICT | 38.521-1 | 1619 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222203 | Correction of test applicability of 6.4.2.5 | CAICT | 38.521-1 | 1620 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222204 | Moving test requirement of 6.3E.1.1D to the correct section and correction of style of some table notes | CAICT | 38.521-1 | 1621 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222205 | Correction of clause style in 6.2E.2.2 | CAICT | 38.521-1 | 1622 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222206 | Removing FFS for the test configuration table in 6.2E.1.1.4.1 | CAICT | 38.521-1 | 1623 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222207 | Moving additional tolerance in 6.2A.3.1.5 and 6.2D.3.5 to end of the section | CAICT, Nokia, Nokia Shanghai Bell | 38.521-1 | 1624 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223804 | Moving additional tolerance in 6.2A.3.1.5 and 6.2D.3.5 to end of the section | CAICT, Nokia, Nokia Shanghai Bell | 38.521-1 | 1624 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222227 | Removal of PC1.5 from TC 6.2.1 MOP | CMCC | 38.521-1 | 1625 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223773 | Removal of PC1.5 from TC 6.2.1 MOP | CMCC | 38.521-1 | 1625 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222228 | Removal of PC1.5 from TC 6.2.2 MPR | CMCC | 38.521-1 | 1626 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223774 | Removal of PC1.5 from TC 6.2.2 MPR | CMCC | 38.521-1 | 1626 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222229 | Removal of PC1.5 from TC 6.2.3 A-MPR | CMCC | 38.521-1 | 1627 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223775 | Removal of PC1.5 from TC 6.2.3 A-MPR | CMCC | 38.521-1 | 1627 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222230 | Removal of PC1.5 from TC 6.5.2.4.1 ACLR | CMCC | 38.521-1 | 1628 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223776 | Removal of PC1.5 from TC 6.5.2.4.1 ACLR | CMCC | 38.521-1 | 1628 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222241 | Update Spurious emissions for UE co-existence for CA\_n41C | CMCC | 38.521-1 | 1629 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222309 | Introduction of configuration DC\_n48A-n70A for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1630 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223769 | Introduction of configuration DC\_n48A-n70A for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1630 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222310 | Introduction of Transmitter power for NR-DC | Nokia, Nokia Shanghai Bell | 38.521-1 | 1631 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222311 | Introduction of UE maximum output power reduction for NR-DC | Nokia, Nokia Shanghai Bell | 38.521-1 | 1632 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222312 | Introduction of UE additional maximum output power reduction for NR-DC | Nokia, Nokia Shanghai Bell | 38.521-1 | 1633 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222313 | Introduction of Configured output power for inter-band NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1634 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222314 | Introduction of Output power dynamics and Minimum output power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1635 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223756 | Introduction of Output power dynamics and Minimum output power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1635 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222315 | Introduction of Transmit OFF power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1636 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223757 | Introduction of Transmit OFF power for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1636 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222316 | Introduction of Transmit ON/OFF time mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1637 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223758 | Introduction of Transmit ON/OFF time mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1637 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222317 | Introduction of Transmit signal quality and Frequency error for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1638 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223759 | Introduction of Transmit signal quality and Frequency error for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1638 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222318 | Introduction of Error Vector Magnitude for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1639 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223760 | Introduction of Error Vector Magnitude for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1639 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222319 | Introduction of Carrier leakage for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1640 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223761 | Introduction of Carrier leakage for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1640 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222320 | Introduction of In-band emissions for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1641 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223762 | Introduction of In-band emissions for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1641 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222321 | Introduction of Output RF spectrum emissions and Occupied bandwidth for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1642 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223763 | Introduction of Output RF spectrum emissions and Occupied bandwidth for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1642 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222322 | Introduction of Out of band emission Spectrum emission mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1643 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223764 | Introduction of Out of band emission Spectrum emission mask for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1643 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222323 | Introduction of Adjacent channel leakage ratio for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1644 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223765 | Introduction of Adjacent channel leakage ratio for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1644 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222324 | Introduction of Spurious emission for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1645 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223766 | Introduction of Spurious emission for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1645 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222325 | Introduction of Transmit intermodulation for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1646 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223767 | Introduction of Transmit intermodulation for NR-DC in FR1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1646 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222326 | Introduction of NR-DC references to transmitter test requirements | Nokia, Nokia Shanghai Bell | 38.521-1 | 1647 | - | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223768 | Introduction of NR-DC references to transmitter test requirements | Nokia, Nokia Shanghai Bell | 38.521-1 | 1647 | 1 | Rel-17 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222327 | Editorial correction for references to Table 5.5A.3-1 | Nokia, Nokia Shanghai Bell | 38.521-1 | 1648 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222331 | FR1 - 6.5A.3.2 - Spurious for co-existence - correction for CA\_n41-n79 | Keysight Technologies UK Ltd | 38.521-1 | 1649 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222332 | Test procedure correction in FR1 CA test case 7.6A.4.3 | Keysight Technologies UK Ltd | 38.521-1 | 1650 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223656 | Test procedure correction in FR1 CA test case 7.6A.4.3 | Keysight Technologies UK Ltd | 38.521-1 | 1650 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222333 | Test procedure correction in FR1 CA test case 7.6A.4.2 | Keysight Technologies UK Ltd | 38.521-1 | 1651 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223700 | Test procedure correction in FR1 CA test case 7.6A.4.2 | Keysight Technologies UK Ltd | 38.521-1 | 1651 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222334 | Reference correction in test case 6.5C.4 | Keysight Technologies UK Ltd | 38.521-1 | 1652 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222335 | Correction of min value for A-MPR - FR1 - NS\_44 - Test ID 17 | Keysight Technologies UK Ltd | 38.521-1 | 1653 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222336 | Replace n79C by n77C in test case 6.2A.2.1 | Keysight Technologies UK Ltd | 38.521-1 | 1654 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222337 | Editorial correction in Test IDs in FR1 test case 7.5A.2 | Keysight Technologies UK Ltd | 38.521-1 | 1655 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222338 | Corrections for n50 and n79 in FR1 test case 7.3.2 | Keysight Technologies UK Ltd | 38.521-1 | 1656 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222339 | Editorial corrections for FR1 in annex F.1.2 | Keysight Technologies UK Ltd | 38.521-1 | 1657 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222350 | Update of reference sense test case 7.3.2 for n41 and CWB 70 MHz | Ericsson | 38.521-1 | 1658 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | revised |
| R5-223731 | Update of reference sense test case 7.3.2 for n41 and CWB 70 MHz | Ericsson | 38.521-1 | 1658 | 1 | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222351 | Update of reference sense test case 7.3.2 for n48 and CWBs 30 and 70 MHz | Ericsson | 38.521-1 | 1659 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222352 | Update of reference sense test case 7.3.2 for n2 and CWBs 25 30 and 40 MHz | Ericsson | 38.521-1 | 1660 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222353 | Update of reference sense test case 7.3.2 for n5 and CWB 25 MHz | Ericsson | 38.521-1 | 1661 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222354 | Introducing CBW 70 MHz for Default Downlink Power levels in Annex C | Ericsson | 38.521-1 | 1662 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222355 | Introducing CBW 30 MHz for Characteristics of the Interfering Signaling in Annex D | Ericsson | 38.521-1 | 1663 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222356 | Introducing CBW 70 MHz for Characteristics of the Interfering Signaling in Annex D | Ericsson | 38.521-1 | 1664 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222426 | UL MIMO MOP requirements for PC1.5 in n77 and n78 | Google Inc., Verizon | 38.521-1 | 1665 | - | Rel-17 | F | HPUE\_PC1\_5\_n77\_n78-UEConTest | revised |
| R5-223770 | UL MIMO MOP requirements for PC1.5 in n77 and n78 | Google Inc., Verizon | 38.521-1 | 1665 | 1 | Rel-17 | F | HPUE\_PC1\_5\_n77\_n78-UEConTest | agreed |
| R5-222428 | Corrections in message exceptions and test points for FR1 test case 6.3A.4.1.1 | Keysight Technologies UK Ltd | 38.521-1 | 1666 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223697 | Corrections in message exceptions and test points for FR1 test case 6.3A.4.1.1 | Keysight Technologies UK Ltd | 38.521-1 | 1666 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222448 | Editorial correction of REFSENS test case 7.3.2 | Ericsson | 38.521-1 | 1667 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222449 | Correction of REFSENS test case for n71 and CBW 10 15 and 30 MHz | Ericsson | 38.521-1 | 1668 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222450 | Correction of REFSENS test case for n66 and CBW 25 and 30 MHz | Ericsson | 38.521-1 | 1669 | - | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | agreed |
| R5-222480 | Correction to time mask test cases | Anritsu | 38.521-1 | 1670 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223805 | Correction to time mask test cases | Anritsu | 38.521-1 | 1670 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222481 | Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2 | Anritsu | 38.521-1 | 1671 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222485 | Correction to RB allocation and test requirement in 6.2.3 | Anritsu | 38.521-1 | 1672 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223806 | Correction to RB allocation and test requirement in 6.2.3 | Anritsu | 38.521-1 | 1672 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222495 | Correction to DCI format in 6.4.2.1 | Anritsu | 38.521-1 | 1673 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223807 | Correction to DCI format in 6.4.2.1 | Anritsu | 38.521-1 | 1673 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222540 | Correction of REFSENS test case for n66 and CBW 40 MHz | Ericsson | 38.521-1 | 1674 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222545 | Clarification of BCS in test configuration of CA test cases | ROHDE & SCHWARZ | 38.521-1 | 1675 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223813 | Clarification of BCS in test configuration of CA test cases | ROHDE & SCHWARZ | 38.521-1 | 1675 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222571 | Addition of reference sensitivity test for several CA combinations | WE Certification Oy, DISH Network | 38.521-1 | 1676 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222616 | Addition of UE co-existence requirements for band n18 to TS 38.521-1 | NTT DOCOMO INC. | 38.521-1 | 1677 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | withdrawn |
| R5-222655 | Addition of UE co-existence requirements for band n18 to TS 38.521-1 | NTT DOCOMO INC., KDDI Corporation | 38.521-1 | 1678 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222661 | Updating General Spurious Emissions TC for CA\_n24-n41 | Ligado Networks | 38.521-1 | 1679 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223734 | Updating General Spurious Emissions TC for CA\_n24-n41 | Ligado Networks | 38.521-1 | 1679 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222662 | Updating General Spurious Emissions TCs for CA\_n24-n48 | Ligado Networks | 38.521-1 | 1680 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223735 | Updating General Spurious Emissions TCs for CA\_n24-n48 | Ligado Networks | 38.521-1 | 1680 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222663 | Updating General Spurious Emissions TCs for CA\_n24-n77 | Ligado Networks | 38.521-1 | 1681 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223736 | Updating General Spurious Emissions TCs for CA\_n24-n77 | Ligado Networks | 38.521-1 | 1681 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222664 | General updates of clause 5 for R17 new CBW configurations | China Unicom, Ericsson | 38.521-1 | 1682 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-222665 | Updating Spurious emission for UE co-existence TC for CA\_n24-n41 | Ligado Networks | 38.521-1 | 1683 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223737 | Updating Spurious emission for UE co-existence TC for CA\_n24-n41 | Ligado Networks | 38.521-1 | 1683 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222666 | Updating Spurious emission for UE co-existence TC for CA\_n24-n48 | Ligado Networks | 38.521-1 | 1684 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223738 | Updating Spurious emission for UE co-existence TC for CA\_n24-n48 | Ligado Networks | 38.521-1 | 1684 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222667 | Updating Spurious emission for UE co-existence TC for CA\_n24-n77 | Ligado Networks | 38.521-1 | 1685 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223739 | Updating Spurious emission for UE co-existence TC for CA\_n24-n77 | Ligado Networks | 38.521-1 | 1685 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222672 | Updating AMPR TC for Rel-17 CA\_n24-n41 | Ligado Networks | 38.521-1 | 1686 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223740 | Updating AMPR TC for Rel-17 CA\_n24-n41 | Ligado Networks | 38.521-1 | 1686 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222673 | Updating AMPR TC for Rel-17 CA\_n24-n48 | Ligado Networks | 38.521-1 | 1687 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223741 | Updating AMPR TC for Rel-17 CA\_n24-n48 | Ligado Networks | 38.521-1 | 1687 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222674 | General updates of clause 5 for R16 new CBW configurations | China Unicom | 38.521-1 | 1688 | - | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | withdrawn |
| R5-222675 | Updating AMPR TC for Rel-17 CA\_n24-n77 | Ligado Networks | 38.521-1 | 1689 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223742 | Updating AMPR TC for Rel-17 CA\_n24-n77 | Ligado Networks | 38.521-1 | 1689 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222676 | General updates of clause 5 for R17 CADC configurations | China Unicom, WE Certification | 38.521-1 | 1690 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223743 | General updates of clause 5 for R17 CADC configurations | China Unicom, WE Certification | 38.521-1 | 1690 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222677 | General updates of clause 5 for R16 new CBW configurations | China Unicom | 38.521-1 | 1691 | - | Rel-16 | F | NR\_bands\_BW\_R16-UEConTest | withdrawn |
| R5-222681 | General updates of clause 5 for R16 new CBW configurations | China Unicom, Orange | 38.521-1 | 1692 | - | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | revised |
| R5-223695 | General updates of clause 5 for R16 new CBW configurations | China Unicom, Orange | 38.521-1 | 1692 | 1 | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | agreed |
| R5-222683 | Update of R17 CADC configurations into refsense TC | China Unicom | 38.521-1 | 1693 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222684 | Update of CBW 70MHz into refsens TC | China Unicom | 38.521-1 | 1694 | - | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | revised |
| R5-223694 | Update of CBW 70MHz into refsens TC | China Unicom | 38.521-1 | 1694 | 1 | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | agreed |
| R5-222737 | Add MU and TT for 7.5F.1 and 7.6F.2 | Qualcomm Israel Ltd. | 38.521-1 | 1695 | - | Rel-17 | F | NR\_unlic-UEConTest | revised |
| R5-223754 | Add MU and TT for 7.5F.1 and 7.6F.2 | Qualcomm Israel Ltd. | 38.521-1 | 1695 | 1 | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222738 | Update 7.3F.2 Ref sensitivity power level | Qualcomm Israel Ltd. | 38.521-1 | 1696 | - | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222739 | Introduction of 7.6F.2 IBB for NR\_U | Qualcomm Israel Ltd. | 38.521-1 | 1697 | - | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222741 | Update 6.4.2.1a EVM including symbols with transient period | Qualcomm Israel Ltd. | 38.521-1 | 1698 | - | Rel-17 | F | TEI16\_Test | revised |
| R5-223872 | Update 6.4.2.1a EVM including symbols with transient period | Qualcomm Israel Ltd. | 38.521-1 | 1698 | 1 | Rel-17 | F | TEI16\_Test | agreed |
| R5-222742 | Update AMPR for NS\_04 | Qualcomm Israel Ltd. | 38.521-1 | 1699 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223808 | Update AMPR for NS\_04 | Qualcomm Israel Ltd. | 38.521-1 | 1699 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223875 | Update AMPR for NS\_04 | Qualcomm Israel Ltd. | 38.521-1 | 1699 | 2 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222745 | Update 6.5.3.2 Spurious emissions for UE co-existence | Qualcomm Israel Ltd. | 38.521-1 | 1700 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222746 | Introduction of ACS for NR\_U | Qualcomm Israel Ltd. | 38.521-1 | 1701 | - | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222807 | Update 6.5.3.2 Spur-emiss R16\_17 for UE co-exist | Qualcomm Israel Ltd. | 38.521-1 | 1702 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223698 | Update 6.5.3.2 Spur-emiss R16\_17 for UE co-exist | Qualcomm Israel Ltd. | 38.521-1 | 1702 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222808 | Correction of A-MPR regions for NS\_46 | Keysight Technologies UK Ltd | 38.521-1 | 1703 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222837 | Addition of Reference sensitivity TC for RedCap | China Unicom | 38.521-1 | 1704 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223789 | Addition of Reference sensitivity TC for RedCap | China Unicom | 38.521-1 | 1704 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222839 | Addition of redcap general requirement into clause 3-5 | China Unicom, ZTE | 38.521-1 | 1705 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223790 | Addition of redcap general requirement into clause 3-5 | China Unicom, ZTE | 38.521-1 | 1705 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222857 | Updates of clause 5 for R15 bands and CBW configurations | China Unicom, Bureau Veritas, Anritsu | 38.521-1 | 1706 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222873 | Aligning test case Occupied bandwidth for UL MIMO with the latest work plan version | Ericsson | 38.521-1 | 1707 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222878 | Update to MPR test requirements to remove ambiguity of T\_LC | Huawei, HiSilicon, Bureau Veritas | 38.521-1 | 1708 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223809 | Update to MPR test requirements to remove ambiguity of T\_LC | Huawei, HiSilicon, Bureau Veritas | 38.521-1 | 1708 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222899 | Addition of Redcap MOP 6.2I.1 | Huawei, HiSilicon | 38.521-1 | 1709 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223785 | Addition of Redcap MOP 6.2I.1 | Huawei, HiSilicon | 38.521-1 | 1709 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222900 | Addition of Redcap MPR 6.2I.2 | Huawei, HiSilicon | 38.521-1 | 1710 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223786 | Addition of Redcap MPR 6.2I.2 | Huawei, HiSilicon | 38.521-1 | 1710 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222901 | Addition of Redcap AMPR 6.2I.3 | Huawei, HiSilicon | 38.521-1 | 1711 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223787 | Addition of Redcap AMPR 6.2I.3 | Huawei, HiSilicon | 38.521-1 | 1711 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222902 | Addition of Redcap configured output power 6.2I.4 | Huawei, HiSilicon | 38.521-1 | 1712 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223788 | Addition of Redcap configured output power 6.2I.4 | Huawei, HiSilicon | 38.521-1 | 1712 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222918 | Addition of new test case 6.2G.1 maximum output power for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1713 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223777 | Addition of new test case 6.2G.1 maximum output power for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1713 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222919 | Addition of new test case 6.2G.2 maximum output power reduction for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1714 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223778 | Addition of new test case 6.2G.2 maximum output power reduction for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1714 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222920 | Addition of new test case 6.2G.3 additional maximum output power reduction for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1715 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223779 | Addition of new test case 6.2G.3 additional maximum output power reduction for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1715 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222921 | Addition of new test case 6.5G.2.3 Adjacent channel leakage ratio for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1716 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223780 | Addition of new test case 6.5G.2.3 Adjacent channel leakage ratio for Tx Diversity | Huawei, HiSilicon | 38.521-1 | 1716 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222922 | Update of 7.4 Maximum input level for Tx Diversity support | Huawei, HiSilicon | 38.521-1 | 1717 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | withdrawn |
| R5-222923 | Addition of Annex F for Tx Diversity test cases | Huawei, HiSilicon | 38.521-1 | 1718 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223782 | Addition of Annex F for Tx Diversity test cases | Huawei, HiSilicon | 38.521-1 | 1718 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222930 | Update of the definition of uplink RB allocation for power class 1.5 UE | Huawei, HiSilicon | 38.521-1 | 1719 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222939 | Aligning test case 6.5D.2.4.1 NR ACLR for UL MIMO with the latest work plan version | Ericsson | 38.521-1 | 1720 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222940 | General updates of clause 5 for R16 CADC configurations | China Unicom, Verizon | 38.521-1 | 1721 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223657 | General updates of clause 5 for R16 CADC configurations | China Unicom, Verizon | 38.521-1 | 1721 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222955 | Aligning test case 6.5D.2.4.2 UTRA ACLR for UL MIMO with the latest work plan version | Ericsson | 38.521-1 | 1722 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222975 | Addition of CA\_n1A-n8A into MOP TC | China Unicom | 38.521-1 | 1723 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222993 | Corrections of DCI format for Tx TCs having impact on ETSI EN 301 908-25 | Ericsson | 38.521-1 | 1724 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222997 | Removal of brackets for DCI for Rx test cases | Ericsson | 38.521-1 | 1725 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223016 | Addition of spectrum emission mask testing for UL MIMO with ULFPTx | Huawei, HiSilicon | 38.521-1 | 1726 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223705 | Addition of spectrum emission mask testing for UL MIMO with ULFPTx | Huawei, HiSilicon | 38.521-1 | 1726 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223018 | Update of Annex F for UL MIMO test cases | Huawei, HiSilicon | 38.521-1 | 1727 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223022 | Addition of CA\_n1A-n8A into Refsens TC | China Unicom | 38.521-1 | 1728 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223029 | Introduce SRS IL for UE with NR TxD | Apple Portugal | 38.521-1 | 1729 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223781 | Introduce SRS IL for UE with NR TxD | Apple Portugal | 38.521-1 | 1729 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-223057 | Addition of 45M into TC 7.5 Adjacent channel selectivity | China Unicom | 38.521-1 | 1730 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | withdrawn |
| R5-223124 | Updating minimum requirement for 7.6A.3 OOB for CA testing | Huawei, Hisilicon | 38.521-1 | 1731 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223125 | Correction to NS\_27 in test case AMPR for MIMO | Huawei, Hisilicon | 38.521-1 | 1732 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223699 | Correction to NS\_27 in test case AMPR for MIMO | Huawei, Hisilicon | 38.521-1 | 1732 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-223129 | Updating RB allocation for CBW 45MHz | Huawei, Hisilicon | 38.521-1 | 1733 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | revised |
| R5-223729 | Updating RB allocation for CBW 45MHz | Huawei, Hisilicon | 38.521-1 | 1733 | 1 | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223130 | Updating almost contiguous RB allocation for 45MHz CBW | Huawei, Hisilicon | 38.521-1 | 1734 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223131 | Updating AMPR test case for NS\_48 for CBW 45MHz | Huawei, Hisilicon | 38.521-1 | 1735 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | revised |
| R5-223730 | Updating AMPR test case for NS\_48 for CBW 45MHz | Huawei, Hisilicon | 38.521-1 | 1735 | 1 | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223133 | Updating Additional spurious emissions for NS\_48 for 45MHz CBW | Huawei, Hisilicon | 38.521-1 | 1736 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223134 | Updating test case 6.3.1 Minimum output power for CBW 45MHz | Huawei, Hisilicon | 38.521-1 | 1737 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223135 | Updating transmit ON\_OFF time mask test case for 45MHz CBW | Huawei, Hisilicon | 38.521-1 | 1738 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223136 | Updating test case 7.4 Maximum input level for new Rel-17 CBWs | Huawei, Hisilicon | 38.521-1 | 1739 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223137 | Updating 6.3D.1 Minimum output power for UL MIMO for 45MHz CBW | Huawei, Hisilicon | 38.521-1 | 1740 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223138 | Updating transmit ON\_OFF time mask for MIMO test case for 45MHz CBW | Huawei, Hisilicon | 38.521-1 | 1741 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223139 | Correction to 6.2.3 A-MPR PC2 NS\_04 test requirements for band n41 | Huawei, Hisilicon | 38.521-1 | 1742 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223140 | Correction to Test Channel Bandwidths for FR1 CA | Huawei, Hisilicon | 38.521-1 | 1743 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223810 | Correction to Test Channel Bandwidths for FR1 CA | Huawei, Hisilicon | 38.521-1 | 1743 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223141 | Editorial correction to test requirement of Aggregate power tolerance for UL MIMO | Huawei, Hisilicon | 38.521-1 | 1744 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223811 | Editorial correction to test requirement of Aggregate power tolerance for UL MIMO | Huawei, Hisilicon | 38.521-1 | 1744 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223142 | Editorial correction to test requirement of FR2 test cases | Huawei, Hisilicon | 38.521-1 | 1745 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223159 | Update TC 6.5.3.3 Additional spurious emissions for PC2 n39 | CMCC | 38.521-1 | 1746 | - | Rel-17 | F | NR\_UE\_PC2\_n39-UEConTest | agreed |
| R5-223160 | Update TC 6.2.3 UE additional maximum output power reduction for PC2 n39 | CMCC | 38.521-1 | 1747 | - | Rel-17 | F | NR\_UE\_PC2\_n39-UEConTest | withdrawn |
| R5-223198 | Addition of redcap requirement into sub-clause 7.1 and 7.2 | China Unicom | 38.521-1 | 1748 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-223215 | General updates of clause 5 for additional Rel-16 CA configurations | Verizon Switzerland AG | 38.521-1 | 1749 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | withdrawn |
| R5-223218 | Update test configuration table for NS\_27 of A-MPR | Samsung, Google | 38.521-1 | 1750 | - | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | revised |
| R5-223693 | Update test configuration table for NS\_27 of A-MPR | Samsung, Google | 38.521-1 | 1750 | 1 | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | agreed |
| R5-223220 | Addition to clauses 3 and 4 for the definitions and abbreviations for Redcap | ZTE Corporation | 38.521-1 | 1751 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | withdrawn |
| R5-223238 | Update 6.2.3 for additional maximum power reduction | ZTE Corporation | 38.521-1 | 1752 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223812 | Update 6.2.3 for additional maximum power reduction | ZTE Corporation | 38.521-1 | 1752 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223240 | Introduction of test specifications for additional Rel-16 CA combos to Clause 6 | Verizon Switzerland AG | 38.521-1 | 1753 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223655 | Introduction of test specifications for additional Rel-16 CA combos to Clause 6 | Verizon Switzerland AG | 38.521-1 | 1753 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223248 | Update Rx Requirements for additional Rel-16 CA combos | Verizon Switzerland AG, Apple | 38.521-1 | 1754 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | withdrawn |
| R5-223291 | Update for 6.3.3.1 General clause of Tx ON-OFF time mask | Qualcomm Israel Ltd. | 38.521-1 | 1755 | - | Rel-17 | F | TEI16\_Test | revised |
| R5-223873 | Update for 6.3.3.1 General clause of Tx ON-OFF time mask | Qualcomm Israel Ltd. | 38.521-1 | 1755 | 1 | Rel-17 | F | TEI16\_Test | agreed |
| R5-222198 | Correction of table numbers in 6.2D.2.5 | CAICT | 38.521-2 | 0720 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222199 | Correction of Test Environment for UL MIMO MPR test case | CAICT | 38.521-2 | 0721 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222341 | FR2 SA EVM test case update based on TT analysis | Keysight Technologies UK Ltd | 38.521-2 | 0722 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222342 | Beam peak search - re-positioning formula correction | Keysight Technologies UK Ltd | 38.521-2 | 0723 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222437 | Rel-15 MPR updates | Keysight technologies UK Ltd | 38.521-2 | 0724 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223814 | Rel-15 MPR updates | Keysight technologies UK Ltd | 38.521-2 | 0724 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222443 | Common Uplink Configuration updates for Rel-15 FR2 | Keysight technologies UK Ltd | 38.521-2 | 0725 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223815 | Common Uplink Configuration updates for Rel-15 FR2 | Keysight technologies UK Ltd | 38.521-2 | 0725 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222444 | Common Uplink Configuration updates for NR RF requirement enhancements for FR2 | Keysight technologies UK Ltd | 38.521-2 | 0726 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | revised |
| R5-223749 | Common Uplink Configuration updates for NR RF requirement enhancements for FR2 | Keysight technologies UK Ltd | 38.521-2 | 0726 | 1 | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | agreed |
| R5-222472 | FR2 MPR enhancements | Keysight technologies UK Ltd | 38.521-2 | 0727 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | withdrawn |
| R5-222478 | Update FR2 TRx MU in 38.521-2 | Anritsu | 38.521-2 | 0728 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223617 | Update FR2 TRx MU in 38.521-2 | Anritsu | 38.521-2 | 0728 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222482 | Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2 | Anritsu | 38.521-2 | 0729 | - | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222483 | Editorial correction in Annex | Anritsu | 38.521-2 | 0730 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223824 | Editorial correction in Annex | Anritsu | 38.521-2 | 0730 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222488 | Editorial correction for Tx test cases | Anritsu | 38.521-2 | 0731 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222496 | Correction to DCI format in singnal quality TCs | Anritsu | 38.521-2 | 0732 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223816 | Correction to DCI format in singnal quality TCs | Anritsu | 38.521-2 | 0732 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222544 | Update of A-MPR and A-SE test cases | ROHDE & SCHWARZ | 38.521-2 | 0733 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222552 | Correction of TRP Measurement Grids | Keysight Technologies UK Ltd | 38.521-2 | 0734 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223825 | Correction of TRP Measurement Grids | Keysight Technologies UK Ltd | 38.521-2 | 0734 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222556 | CR on applicability per permitted test method | Keysight Technologies UK Ltd | 38.521-2 | 0735 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223826 | CR on applicability per permitted test method | Keysight Technologies UK Ltd | 38.521-2 | 0735 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222879 | Update to FR2 6.2.3 A-MPR | Huawei, HiSilicon, Bureau Veritas | 38.521-2 | 0736 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222880 | Update to TT of beam correspondance | Huawei, HiSilicon, Bureau Veritas | 38.521-2 | 0737 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222885 | Addition of FR2 6.2D.3 for ULFPTx | Huawei, HiSilicon | 38.521-2 | 0738 | - | Rel-17 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-223030 | Implement test function approach to limit Pcell Power in FR2 UL-CA tests | Apple Portugal | 38.521-2 | 0739 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223817 | Implement test function approach to limit Pcell Power in FR2 UL-CA tests | Apple Portugal | 38.521-2 | 0739 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223034 | FR2 Enhanced Beam Correspondence test updates | Apple Portugal | 38.521-2 | 0740 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | revised |
| R5-223750 | FR2 Enhanced Beam Correspondence test updates | Apple Portugal | 38.521-2 | 0740 | 1 | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | agreed |
| R5-223035 | Updates across REFSENS test cases to incorporate Rel.16 requirements | Apple Portugal | 38.521-2 | 0741 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | withdrawn |
| R5-223038 | Updates across Spherical Coverage test cases to incorporate Rel.16 requirements | Apple Portugal | 38.521-2 | 0742 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | revised |
| R5-223751 | Updates across Spherical Coverage test cases to incorporate Rel.16 requirements | Apple Portugal | 38.521-2 | 0742 | 1 | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | agreed |
| R5-223039 | Correction to FR2 DL RMCs | Apple Portugal | 38.521-2 | 0743 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223827 | Correction to FR2 DL RMCs | Apple Portugal | 38.521-2 | 0743 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223041 | Initial introduction of fast spherical coverage test method | Apple Portugal | 38.521-2 | 0744 | - | Rel-16 | F | TEI15\_Test | revised |
| R5-223828 | Initial introduction of fast spherical coverage test method | Apple Portugal | 38.521-2 | 0744 | 1 | Rel-16 | F | TEI15\_Test | agreed |
| R5-223042 | Initial introduction of RSRP-B based Rx Peak Beam Search | Apple Portugal | 38.521-2 | 0745 | - | Rel-16 | F | TEI15\_Test | revised |
| R5-223829 | Initial introduction of RSRP-B based Rx Peak Beam Search | Apple Portugal | 38.521-2 | 0745 | 1 | Rel-16 | F | TEI15\_Test | agreed |
| R5-223043 | Initial introduction of Enhanced EIRP measurement method | Apple Portugal | 38.521-2 | 0746 | - | Rel-16 | F | TEI15\_Test | revised |
| R5-223830 | Initial introduction of Enhanced EIRP measurement method | Apple Portugal | 38.521-2 | 0746 | 1 | Rel-16 | F | TEI15\_Test | agreed |
| R5-223044 | Test case updates for mpr-PowerBoost-FR2-r16 feature | Apple Portugal | 38.521-2 | 0747 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | withdrawn |
| R5-223045 | Test case updates in Max Input Level FR2 CA tests | Apple Portugal | 38.521-2 | 0748 | - | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | revised |
| R5-223752 | Test case updates in Max Input Level FR2 CA tests | Apple Portugal | 38.521-2 | 0748 | 1 | Rel-16 | F | NR\_RF\_FR2\_req\_enh-UEConTest | agreed |
| R5-223122 | Addition of FR2 6.2D.3 for ULFPTx | Huawei, HiSilicon | 38.521-2 | 0749 | - | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223230 | Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE | ZTE Corporation | 38.521-2 | 0750 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223818 | Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE | ZTE Corporation | 38.521-2 | 0750 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223232 | Correction to A.2.3 and A.3.3 for UL and DL RMCs | ZTE Corporation, Anritsu | 38.521-2 | 0751 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223831 | Correction to A.2.3 and A.3.3 for UL and DL RMCs | ZTE Corporation, Anritsu | 38.521-2 | 0751 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223258 | Correction of FR2 MOP and beam correspondence test cases | ROHDE & SCHWARZ | 38.521-2 | 0752 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223272 | Change FR2 SEM verification test metric | Apple Portugal | 38.521-2 | 0753 | - | Rel-16 | F | TEI15\_Test | revised |
| R5-223640 | Change FR2 SEM verification test metric | Apple Portugal | 38.521-2 | 0753 | 1 | Rel-16 | F | TEI15\_Test | withdrawn |
| R5-223277 | Clarification on Adjacent channel selectivity | Apple Hungary Kft. | 38.521-2 | 0754 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223822 | Clarification on Adjacent channel selectivity | Apple Hungary Kft. | 38.521-2 | 0754 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223280 | Clarification on Configured transmitted power | Apple Hungary Kft. | 38.521-2 | 0755 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223819 | Clarification on Configured transmitted power | Apple Hungary Kft. | 38.521-2 | 0755 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223281 | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | Qualcomm Finland RFFE Oy | 38.521-2 | 0756 | - | Rel-15 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223283 | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | QUALCOMM JAPAN LLC. | 38.521-2 | 0757 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223820 | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | QUALCOMM JAPAN LLC. | 38.521-2 | 0757 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223284 | Clarification on In-band blocking | Apple Hungary Kft. | 38.521-2 | 0758 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223823 | Clarification on In-band blocking | Apple Hungary Kft. | 38.521-2 | 0758 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223285 | Clarification on mpr-PowerBoost-FR2-r16 | Apple Hungary Kft. | 38.521-2 | 0759 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223639 | Clarification on mpr-PowerBoost-FR2-r16 | Apple Hungary Kft. | 38.521-2 | 0759 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223286 | Clarification on UE Channel bandwidth per operating band for CA | Apple Hungary Kft. | 38.521-2 | 0760 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223832 | Clarification on UE Channel bandwidth per operating band for CA | Apple Hungary Kft. | 38.521-2 | 0760 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223292 | Editorial correction to test requirement of FR2 test cases | Huawei, Hisilicon | 38.521-2 | 0761 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223821 | Editorial correction to test requirement of FR2 test cases | Huawei, Hisilicon | 38.521-2 | 0761 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222192 | Correction of minimum requirement and test requirement of 6.2B.1.3 | CAICT | 38.521-3 | 1335 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222193 | Correction of Transmitter power test requirements for EN-DC within FR1 | CAICT | 38.521-3 | 1336 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223833 | Correction of Transmitter power test requirements for EN-DC within FR1 | CAICT | 38.521-3 | 1336 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222194 | Correction of reference section numbers in 6.4E and title of 6.4E.2.1.2 | CAICT | 38.521-3 | 1337 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222195 | Correction of test requirement of 6.2B.2.1 | CAICT | 38.521-3 | 1338 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222196 | Separation of 6.2B.1.4D into two test cases | CAICT | 38.521-3 | 1339 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222197 | Correction of clause numbers in 6.2B.1.3a | CAICT | 38.521-3 | 1340 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222285 | Introduction of Output power requirements for DC\_1A\_n8A, DC\_7A\_n8A and DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1341 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223658 | Introduction of Output power requirements for DC\_1A\_n8A, DC\_7A\_n8A and DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1341 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222286 | Introduction of Allowed maximum configured output power relaxation for DC\_1\_n5, DC\_1\_n8, DC\_3\_n5, DC\_7\_n5, DC\_7\_n8 and DC\_8\_n28 | Nokia, Nokia Shanghai Bell | 38.521-3 | 1342 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223659 | Introduction of Allowed maximum configured output power relaxation for DC\_1\_n5, DC\_1\_n8, DC\_3\_n5, DC\_7\_n5, DC\_7\_n8 and DC\_8\_n28 | Nokia, Nokia Shanghai Bell | 38.521-3 | 1342 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222287 | Introduction of General Spurious emissions requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1343 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223660 | Introduction of General Spurious emissions requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1343 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222288 | Introduction of Spurious emissions band UE co-existence limits Rel-16 for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1344 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223661 | Introduction of Spurious emissions band UE co-existence limits Rel-16 for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1344 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222289 | Introduction of Spurious emissions band UE co-existence Test description for DC\_1A\_n8A, DC\_7A\_n5A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1345 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223662 | Introduction of Spurious emissions band UE co-existence Test description for DC\_1A\_n8A, DC\_7A\_n5A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1345 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222290 | Introduction of Spurious emissions band UE co-existence Rel-16 Test requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1346 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223663 | Introduction of Spurious emissions band UE co-existence Rel-16 Test requirements for DC\_1A\_n8A, DC\_7A\_n8A, DC\_8A\_n28A and DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1346 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222302 | Introduction of DC\_1A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1347 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223676 | Introduction of DC\_1A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1347 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222303 | Introduction of DC\_3A-7A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1348 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223677 | Introduction of DC\_3A-7A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1348 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222304 | Introduction of DC\_7A-8A\_n3A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1349 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223678 | Introduction of DC\_7A-8A\_n3A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1349 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222305 | Introduction of DC\_7A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1350 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223679 | Introduction of DC\_7A-20A\_n8A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1350 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222306 | Introduction of DC\_7A-28A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1351 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223680 | Introduction of DC\_7A-28A\_n5A reference sensitivity test requirements | Nokia, Nokia Shanghai Bell | 38.521-3 | 1351 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222343 | FR2 NSA EVM test case editor notes update | Keysight Technologies UK Ltd | 38.521-3 | 1352 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222344 | 6.6B.4 Beam Correspondence test case editor note update | Keysight Technologies UK Ltd | 38.521-3 | 1353 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222345 | MU and TT definition and clean up in 38.521-3 annex F | Keysight Technologies UK Ltd | 38.521-3 | 1354 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222421 | Addition of 6.5E.1 Occupied bandwidth for V2X | TTA | 38.521-3 | 1355 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222422 | Addition of 6.5E.2 Out of band emission for V2X | TTA | 38.521-3 | 1356 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222423 | Editorial correction for 6.3B.8 Power control for EN-DC | TTA | 38.521-3 | 1357 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223834 | Editorial correction for 6.3B.8 Power control for EN-DC | TTA | 38.521-3 | 1357 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222438 | Clarifications on Common Uplink Configuration updates | Keysight technologies UK Ltd | 38.521-3 | 1358 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223835 | Clarifications on Common Uplink Configuration updates | Keysight technologies UK Ltd | 38.521-3 | 1358 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222473 | Addtion Delta TIB,c for FR1 EN-DC | KDDI Corporation | 38.521-3 | 1359 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222474 | Addtion Minimum Conformance Requests of REFSENS for FR1 EN-DC | KDDI Corporation | 38.521-3 | 1360 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223681 | Addtion Minimum Conformance Requests of REFSENS for FR1 EN-DC | KDDI Corporation | 38.521-3 | 1360 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222475 | Introduction of Reference Sensitivity Test for FR1 EN-DC | KDDI Corporation | 38.521-3 | 1361 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | withdrawn |
| R5-222484 | Editorial correction in 6.2B.4.1.3 | Anritsu | 38.521-3 | 1362 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222486 | Correction about test configuration in 6.5B.3.3.2 | Anritsu | 38.521-3 | 1363 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222487 | Correction to title of 7.6B.2.4 and editorial correction for Rx test cases | Anritsu | 38.521-3 | 1364 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222543 | Correction of Refsens CA test case | ROHDE & SCHWARZ | 38.521-3 | 1365 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222561 | Addition of new CADC MOP TC | Intertek | 38.521-3 | 1366 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223664 | Addition of new CADC MOP TC | Intertek | 38.521-3 | 1366 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222700 | Editorial correction to EN-DC test cases | Bureau Veritas | 38.521-3 | 1367 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222702 | Update to R15 common part and DC configurations in clause 5 | Bureau Veritas, Rohde & Schwarz | 38.521-3 | 1368 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222703 | Update to R16 Configuration for DC | Bureau Veritas, Nokia, Huawei, HiSilicon | 38.521-3 | 1369 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222704 | Update to R17 Configuration for DC | Bureau Veritas, Huawei, HiSilicon, Verizon Switzerland AG, NTT DOCOMO INC. | 38.521-3 | 1370 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223744 | Update to R17 Configuration for DC | Bureau Veritas, Huawei, HiSilicon, Verizon Switzerland AG, NTT DOCOMO INC. | 38.521-3 | 1370 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222725 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | 38.521-3 | 1371 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223665 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | 38.521-3 | 1371 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222726 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | 38.521-3 | 1372 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223666 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | 38.521-3 | 1372 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222727 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | 38.521-3 | 1373 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223667 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | 38.521-3 | 1373 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222728 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | 38.521-3 | 1374 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223668 | Addition of ACLR Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | 38.521-3 | 1374 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222729 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | 38.521-3 | 1375 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223669 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 5 NR CCs | Sporton | 38.521-3 | 1375 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222730 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | 38.521-3 | 1376 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223670 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 6 NR CCs | Sporton | 38.521-3 | 1376 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222731 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | 38.521-3 | 1377 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223671 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 7 NR CCs | Sporton | 38.521-3 | 1377 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222732 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | 38.521-3 | 1378 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223672 | Addition of General Spurious Emissions Test Case for Inter-band EN-DC including FR2 8 NR CCs | Sporton | 38.521-3 | 1378 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222743 | Update for 7.3B.2.0 Min Requirements of Ref sensitivity for EN-DC | Qualcomm Israel Ltd. | 38.521-3 | 1379 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222747 | Update 6.5B.3.3.2 for R16 DC\_14\_n2 and DC\_14\_n66 | Qualcomm Israel Ltd. | 38.521-3 | 1380 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223673 | Update 6.5B.3.3.2 for R16 DC\_14\_n2 and DC\_14\_n66 | Qualcomm Israel Ltd. | 38.521-3 | 1380 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222748 | Update 6.5B.3.3.2 for R17 DC\_14\_n2 and DC\_14\_n66 | Qualcomm Israel Ltd. | 38.521-3 | 1381 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222829 | Update of 6.2B.1.3\_1 UE Maximum Output Power for inter-Band EN-DC with 2 E-UTRA CCs and 1 NR CC | Huawei, HiSilicon | 38.521-3 | 1382 | - | Rel-17 | F | DC\_Pcmax\_3UL\_CC-UEConTest | agreed |
| R5-222830 | Update of 6.2B.4.1.3\_1 Configured Output Power for inter-Band EN-DC with 2 E-UTRA CCs and 1 NR CC | Huawei, HiSilicon | 38.521-3 | 1383 | - | Rel-17 | F | DC\_Pcmax\_3UL\_CC-UEConTest | agreed |
| R5-222881 | Adding missing configurations in SE co-ex Rel-17 table | Huawei, HiSilicon, Bureau Veritas | 38.521-3 | 1384 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223836 | Adding missing configurations in SE co-ex Rel-17 table | Huawei, HiSilicon, Bureau Veritas | 38.521-3 | 1384 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222883 | Addition of 6.4E.2.2 Carrier leakage for V2X | Huawei, HiSilicon | 38.521-3 | 1385 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223703 | Addition of 6.4E.2.2 Carrier leakage for V2X | Huawei, HiSilicon | 38.521-3 | 1385 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222884 | Addition of 6.4E.2.3 In-band emissions for V2X | Huawei, HiSilicon | 38.521-3 | 1386 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-223061 | Addition of 6.5B.3.3.1 requirements for NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | 38.521-3 | 1387 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-223063 | Addition of Rel-17 NR inter-band EN-DC configurations including n1 | NTT DOCOMO INC. | 38.521-3 | 1388 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | withdrawn |
| R5-223231 | Correction to 6.2B.1.3 for UE capability IE for inter-band EN-DC UE maximum output power | ZTE Corporation | 38.521-3 | 1389 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-223244 | Add delta TIBc for inter-band DC\_28A\_n7A-n78A | Ericsson | 38.521-3 | 1390 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223674 | Add delta TIBc for inter-band DC\_28A\_n7A-n78A | Ericsson | 38.521-3 | 1390 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223245 | Add delta RIBc for inter-band DC\_28A\_n7A-n78A | Ericsson | 38.521-3 | 1391 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223251 | Update additional Rel-17 band combination information in Clause 5 | Verizon Switzerland AG | 38.521-3 | 1392 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | withdrawn |
| R5-223299 | Introduction of Allowed reference sensitivity relaxation for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1393 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223675 | Introduction of Allowed reference sensitivity relaxation for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | 38.521-3 | 1393 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222231 | Update of Demod TC 5.2.2.1.9\_1 2Rx FDD FR1 HST-SFN performance | CMCC, Huawei, HiSilicon | 38.521-4 | 0503 | - | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-222232 | Update of Demod TC 5.2.3.1.1\_1 4Rx FDD FR1 PDSCH mapping Type A perf for NR HST | CMCC, LG Electronics | 38.521-4 | 0504 | - | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-222233 | Update of Demod TC 5.2.3.1.9\_1 4Rx FDD FR1 HST-SFN performance | CMCC | 38.521-4 | 0505 | - | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-222234 | Update of Demod TC 5.2.3.1.10\_1 4Rx FDD FR1 HST-DPS performance | CMCC | 38.521-4 | 0506 | - | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-222489 | Addition of new test case 5.2A.3.2 | Anritsu | 38.521-4 | 0507 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | withdrawn |
| R5-222497 | Correction to PDCCH parameters in 5.2.2.1.4 and 5.2.2.2.4 | Anritsu | 38.521-4 | 0508 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223714 | Correction to PDCCH parameters in 5.2.2.1.4 and 5.2.2.2.4 | Anritsu | 38.521-4 | 0508 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222498 | Correction to k0 value description | Anritsu | 38.521-4 | 0509 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222499 | Correction to coreset RB in 5.3.2.1.3 and 5.3.3.1.3 | Anritsu | 38.521-4 | 0510 | - | Rel-16 | F | NR\_UE\_pow\_sav-UEConTest | agreed |
| R5-222500 | Correction to CSI-Report periodicity and offset in 6.2A.3.1 | Anritsu | 38.521-4 | 0511 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223871 | Correction to CSI-Report periodicity and offset in 6.2A.3.1 | Anritsu | 38.521-4 | 0511 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222501 | Correction to the referecne of test frequency | Anritsu | 38.521-4 | 0512 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223837 | Correction to the referecne of test frequency | Anritsu | 38.521-4 | 0512 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222541 | Clarification of UL RMC in FR1 PMI test cases | ROHDE & SCHWARZ | 38.521-4 | 0513 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223838 | Clarification of UL RMC in FR1 PMI test cases | ROHDE & SCHWARZ | 38.521-4 | 0513 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222546 | Update of FR2 test cases | ROHDE & SCHWARZ | 38.521-4 | 0514 | - | Rel-16 | F | TEI16\_Test, NR\_DL256QAM\_FR2-UEConTest | revised |
| R5-223840 | Update of FR2 test cases | ROHDE & SCHWARZ | 38.521-4 | 0514 | 1 | Rel-16 | F | TEI16\_Test, NR\_DL256QAM\_FR2-UEConTest | agreed |
| R5-222549 | Update of LTE-NR coexistence test cases | ROHDE & SCHWARZ | 38.521-4 | 0515 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223839 | Update of LTE-NR coexistence test cases | ROHDE & SCHWARZ | 38.521-4 | 0515 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222582 | Update to FR1 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0516 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223715 | Update to FR1 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0516 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222583 | Update to FR1 CA power imbalance test cases | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0517 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223716 | Update to FR1 CA power imbalance test cases | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0517 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222584 | Update to FR2 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0518 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223718 | Update to FR2 CA normal PDSCH test cases | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0518 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222585 | Update to FR1 CA SDR test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0519 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222586 | Update to FR1 CA CQI reporting test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0520 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223717 | Update to FR1 CA CQI reporting test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0520 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222587 | Introduction of FR2 CA SDR test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0521 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223719 | Introduction of FR2 CA SDR test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0521 | 1 | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222588 | Introduction of FR2 SDR test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0522 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223841 | Introduction of FR2 SDR test case | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0522 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222590 | FR2 demod testability update | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0523 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222595 | Correction to demod test case procedure | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0524 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222619 | Addition of NR SL Demod TC 11.1.2 - PSSCH | Huawei,Hisilicon | 38.521-4 | 0525 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222620 | Addition of NR SL Demod TC 11.1.3 - PSCCH | Huawei,Hisilicon | 38.521-4 | 0526 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222621 | Addition of NR SL Demod TC 11.1.4 - PSBCH | Huawei,Hisilicon | 38.521-4 | 0527 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222622 | Addition of NR SL Demod TC 11.1.5 - PSFCH | Huawei,Hisilicon | 38.521-4 | 0528 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222623 | Addition of NR SL Demod TC 11.1.6 - imbalance | Huawei,Hisilicon | 38.521-4 | 0529 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222624 | Addition of NR SL Demod TC 11.1.7 - soft buffer | Huawei,Hisilicon | 38.521-4 | 0530 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222625 | Addition of NR SL Demod TC 11.1.8 - PSCCH capability | Huawei,Hisilicon | 38.521-4 | 0531 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222626 | Addition of NR SL Demod TC 11.1.9 - PSFCH capability | Huawei,Hisilicon | 38.521-4 | 0532 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223704 | Addition of NR SL Demod TC 11.1.9 - PSFCH capability | Huawei,Hisilicon | 38.521-4 | 0532 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222627 | Correction to references for NR SL Demod | Huawei,Hisilicon | 38.521-4 | 0533 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222628 | Addition of NR SL Demod RMCs in Annex A | Huawei,Hisilicon | 38.521-4 | 0534 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222629 | Addition of test tolerance for NR SL Demod in Annex F | Huawei,Hisilicon | 38.521-4 | 0535 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222630 | Addition of test method for NR SL Demod in Annex G | Huawei,Hisilicon | 38.521-4 | 0536 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222892 | Update to Annex G for minimum test time | Huawei, HiSilicon | 38.521-4 | 0537 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | revised |
| R5-223727 | Update to Annex G for minimum test time | Huawei, HiSilicon | 38.521-4 | 0537 | 1 | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222893 | Update to Annex F for URLLC test cases | Huawei, HiSilicon | 38.521-4 | 0538 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | revised |
| R5-223728 | Update to Annex F for URLLC test cases | Huawei, HiSilicon | 38.521-4 | 0538 | 1 | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222894 | Update to URLLC test cases 5.2.x.y.6 | Huawei, HiSilicon | 38.521-4 | 0539 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | revised |
| R5-223726 | Update to URLLC test cases 5.2.x.y.6 | Huawei, HiSilicon | 38.521-4 | 0539 | 1 | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222895 | Update to URLLC test cases 5.2.x.y.7 | Huawei, HiSilicon | 38.521-4 | 0540 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222896 | Update to URLLC test cases 6.2.x.y.1.2 | Huawei, HiSilicon | 38.521-4 | 0541 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | withdrawn |
| R5-222897 | Update to URLLC test case 7.2.2.2.2 | Huawei, HiSilicon | 38.521-4 | 0542 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | withdrawn |
| R5-222898 | Update to URLLC test case 7.2.2.2.3 | Huawei, HiSilicon | 38.521-4 | 0543 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222957 | Editorial, removal of editors note in test case 5.2.2.2.10\_1 | Ericsson | 38.521-4 | 0544 | - | Rel-16 | F | NR\_HST-UEConTest | revised |
| R5-223722 | Editorial, removal of editors note in test case 5.2.2.2.10\_1 | Ericsson | 38.521-4 | 0544 | 1 | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-222958 | Adding TT and removal of editors note in test case 5.2.3.2.9\_1 | Ericsson | 38.521-4 | 0545 | - | Rel-16 | F | NR\_HST-UEConTest | revised |
| R5-223723 | Adding TT and removal of editors note in test case 5.2.3.2.9\_1 | Ericsson | 38.521-4 | 0545 | 1 | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-222974 | Adding TT and removal of editors note in test case 5.2.3.2.10\_1 | Ericsson | 38.521-4 | 0546 | - | Rel-16 | F | NR\_HST-UEConTest | revised |
| R5-223724 | Adding TT and removal of editors note in test case 5.2.3.2.10\_1 | Ericsson | 38.521-4 | 0546 | 1 | Rel-16 | F | NR\_HST-UEConTest | agreed |
| R5-223024 | Update of FR1 RI reporting test cases | ROHDE & SCHWARZ | 38.521-4 | 0547 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223048 | Removal of duplicate clauses from the Demod spec | QUALCOMM Europe Inc. - Italy | 38.521-4 | 0548 | - | Rel-16 | F | TEI15\_Test | agreed |
| R5-223049 | Addition of test case 6.3.3.2.4, 4Rx TDD FR1 Single PMI with 32Tx Type1 - SinglePanel codebook for both SA and NSA | Ericsson | 38.521-4 | 0549 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-223088 | Correction to test case 6.3.2.2.4 and 6.3.3.2.3 | Ericsson | 38.521-4 | 0550 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | withdrawn |
| R5-223107 | Correction in performance enhancement test cases 6.3.2.2.3, 6.3.2.2.4 and 6.3.3.2.3 | Ericsson | 38.521-4 | 0551 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-223119 | Solving editor notes for Type I PMI test cases | China Telecom | 38.521-4 | 0552 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-223120 | Solving editor notes for Type II PMI test cases | China Telecom | 38.521-4 | 0553 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-223153 | Solve duplicated information in Annex | Ericsson | 38.521-4 | 0554 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-223275 | Update of FR2 CQI CA test cases | ROHDE & SCHWARZ | 38.521-4 | 0555 | - | Rel-16 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222190 | Correction of test applicability for 6.4.2.5 of 38.521-1 | CAICT | 38.522 | 0159 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222191 | Separation of 6.2B.1.4D of 38.521-3 into two test cases | CAICT | 38.522 | 0160 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222424 | Correction to applicability for 6.2D.1.1 and 6.2D.1.2 of 38.521-2 | TTA | 38.522 | 0161 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223842 | Correction to applicability for 6.2D.1.1 and 6.2D.1.2 of 38.521-2 | TTA | 38.522 | 0161 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222562 | Addition of applicability for CADC MOP TC | Intertek | 38.522 | 0162 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222581 | Applicability update for NR perf enh WI test cases | QUALCOMM Europe Inc. - Italy | 38.522 | 0163 | - | Rel-17 | F | NR\_perf\_enh-UEConTest | revised |
| R5-223720 | Applicability update for NR perf enh WI test cases | QUALCOMM Europe Inc. - Italy | 38.522 | 0163 | 1 | Rel-17 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-222631 | Addition of test applicability for NR SL Demod TCs | Huawei,Hisilicon | 38.522 | 0164 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222632 | Addition of test applicability for NR SL RRM TCs | Huawei,Hisilicon | 38.522 | 0165 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222635 | Correction to applicability of HST RRM TCs | Huawei,Hisilicon | 38.522 | 0166 | - | Rel-17 | F | NR\_HST-UEConTest | revised |
| R5-223725 | Correction to applicability of HST RRM TCs | Huawei,Hisilicon | 38.522 | 0166 | 1 | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222696 | Correction to test bands selection criteria for UL MIMO capabilities | Bureau Veritas, Huawei, HiSilicon | 38.522 | 0167 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223843 | Correction to test bands selection criteria for UL MIMO capabilities | Bureau Veritas, Huawei, HiSilicon | 38.522 | 0167 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222701 | Correction to applicability of 5G test cases | Bureau Veritas, Rohde & Schwarz | 38.522 | 0168 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223844 | Correction to applicability of 5G test cases | Bureau Veritas, Rohde & Schwarz | 38.522 | 0168 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222736 | Add 7.5F.1 and 7.6F.2 | Qualcomm Israel Ltd. | 38.522 | 0169 | - | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222870 | Jumbo Applicability CR for NR\_RF\_TxD WI | CMCC | 38.522 | 0170 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | revised |
| R5-223783 | Jumbo Applicability CR for NR\_RF\_TxD WI | CMCC | 38.522 | 0170 | 1 | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222904 | Addition of test applicability for RedCap test cases | Huawei, HiSilicon | 38.522 | 0171 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | revised |
| R5-223791 | Addition of test applicability for RedCap test cases | Huawei, HiSilicon | 38.522 | 0171 | 1 | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222914 | Removing test case 6.5D.1\_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.522 | Ericsson | 38.522 | 0172 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222926 | Addition of test applicabilities for Tx Diversity test cases | Huawei, HiSilicon | 38.522 | 0173 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | withdrawn |
| R5-222961 | Complete L1-RSRP FR2 tests | ROHDE & SCHWARZ | 38.522 | 0174 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222973 | Applicability FR1 2-step RACH tests | ROHDE & SCHWARZ | 38.522 | 0175 | - | Rel-17 | F | NR\_2step\_RACH-UEConTest | revised |
| R5-223604 | Applicability FR1 2-step RACH tests | ROHDE & SCHWARZ | 38.522 | 0175 | 1 | Rel-17 | F | NR\_2step\_RACH-UEConTest | withdrawn |
| R5-222992 | Removal of NOTE1 for test case 5.2.2.2.9\_1, 5.2.2.2.10\_1, 5.2.3.2.9\_1 | Ericsson | 38.522 | 0176 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222994 | Update of applicability of FR2 performance test | ROHDE & SCHWARZ | 38.522 | 0177 | - | Rel-17 | F | TEI16\_Test, NR\_DL256QAM\_FR2-UEConTest | agreed |
| R5-223013 | Addition of test applicability for eMIMO test cases | Huawei, HiSilicon | 38.522 | 0178 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223706 | Addition of test applicability for eMIMO test cases | Huawei, HiSilicon | 38.522 | 0178 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223036 | 38.522 applicability updates for Rel.16 FR2 RF enhancements | Apple Portugal | 38.522 | 0179 | - | Rel-17 | F | NR\_RF\_FR2\_req\_enh-UEConTest | revised |
| R5-223753 | 38.522 applicability updates for Rel.16 FR2 RF enhancements | Apple Portugal | 38.522 | 0179 | 1 | Rel-17 | F | NR\_RF\_FR2\_req\_enh-UEConTest | agreed |
| R5-223118 | Correction on test condition for FR2 DL 256QAM test cases | China Telecom | 38.522 | 0180 | - | Rel-17 | F | TEI16\_Test, NR\_DL256QAM\_FR2-UEConTest | revised |
| R5-223845 | Correction on test condition for FR2 DL 256QAM test cases | China Telecom | 38.522 | 0180 | 1 | Rel-17 | F | TEI16\_Test, NR\_DL256QAM\_FR2-UEConTest | agreed |
| R5-223123 | Test case 6.3.2.2.3, 6.3.2.2.4 and 6.3.3.2.3 in 38.522 | Ericsson | 38.522 | 0181 | - | Rel-17 | F | NR\_perf\_enh-UEConTest | agreed |
| R5-223161 | Update applicability for PC2 n34 test cases | CMCC | 38.522 | 0182 | - | Rel-17 | F | NR\_UE\_PC2\_n34-UEConTest | withdrawn |
| R5-223162 | Update applicability for PC2 n39 test cases | CMCC | 38.522 | 0183 | - | Rel-17 | F | NR\_UE\_PC2\_n39-UEConTest | withdrawn |
| R5-223185 | Removal of redundant condition for FR1 DL Interruptions test cases applicability | Ericsson | 38.522 | 0184 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | withdrawn |
| R5-223219 | Addition to 3.3 for new abbreviations in TS 38.522 | ZTE Corporation | 38.522 | 0185 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223846 | Addition to 3.3 for new abbreviations in TS 38.522 | ZTE Corporation | 38.522 | 0185 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223221 | Correction to 4.0 on Tested CA DC configuration selection criteria for E005a, E010 and E010a | ZTE Corporation | 38.522 | 0186 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223847 | Correction to 4.0 on Tested CA DC configuration selection criteria for E005a, E010 and E010a | ZTE Corporation | 38.522 | 0186 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223235 | Editorial correction to A.4.0 for Tested bands selection criteria | ZTE Corporation | 38.522 | 0187 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223848 | Editorial correction to A.4.0 for Tested bands selection criteria | ZTE Corporation | 38.522 | 0187 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223254 | Update of applicability of FR2 RF test cases | ROHDE & SCHWARZ | 38.522 | 0188 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223849 | Update of applicability of FR2 RF test cases | ROHDE & SCHWARZ | 38.522 | 0188 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223302 | Correction of FR1 DL Interruptions test cases applicability | Ericsson | 38.522 | 0189 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223701 | Correction of FR1 DL Interruptions test cases applicability | Ericsson | 38.522 | 0189 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222111 | Correction to NR MAC test case 7.1.1.1.2 | Keysight Technologies UK, Qualcomm, Rohde&Schwarz | 38.523-1 | 2878 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223419 | Correction to NR MAC test case 7.1.1.1.2 | Keysight Technologies UK, Qualcomm, Rohde&Schwarz | 38.523-1 | 2878 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222112 | Correction to NR MAC test case 7.1.1.3.3 | Keysight Technologies UK, Qualcomm | 38.523-1 | 2879 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223420 | Correction to NR MAC test case 7.1.1.3.3 | Keysight Technologies UK, Qualcomm | 38.523-1 | 2879 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222113 | Correction to NR MAC test case 7.1.1.2.4 | Keysight Technologies UK, Qualcomm | 38.523-1 | 2880 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222114 | Correction to NR SDAP test case 7.1.4.1 | Keysight Technologies UK | 38.523-1 | 2881 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222115 | Correction to NR RRC test case 8.1.5.2.2 | Keysight Technologies UK, Qualcomm | 38.523-1 | 2882 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222116 | Correction to SON-MDT test case 8.1.6.1.2.1 | Keysight Technologies UK | 38.523-1 | 2883 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222117 | Correction to SON-MDT test case 8.1.6.1.2.3 | Keysight Technologies UK | 38.523-1 | 2884 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222118 | Correction to SON-MDT test case 8.1.6.1.2.4 | Keysight Technologies UK | 38.523-1 | 2885 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222119 | Correction to SON-MDT test case 8.1.6.1.2.9 | Keysight Technologies UK | 38.523-1 | 2886 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222120 | Correction to RACS test case 9.1.9.7 | Keysight Technologies UK, Huawei, HiSilicon | 38.523-1 | 2887 | - | Rel-16 | F | TEI16\_Test, RACS-UEConTest | agreed |
| R5-222121 | Correction to 3GPP PS Data Off test case 11.6.2 | Keysight Technologies UK | 38.523-1 | 2888 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222178 | Update to Rel-16 NR Mobility Enhancement test case 8.2.3.18.3 | CATT, TDIA | 38.523-1 | 2889 | - | Rel-16 | F | NR\_Mob\_enh-UEConTest | agreed |
| R5-222179 | Update to SRVCC from 5G to 3G test case 8.1.3.2.6 and 8.1.3.2.7 | CATT, TDIA | 38.523-1 | 2890 | - | Rel-16 | F | TEI16\_Test, SRVCC\_NR\_to\_UMTS-UEConTest | revised |
| R5-223342 | Update to SRVCC from 5G to 3G test case 8.1.3.2.6 and 8.1.3.2.7 | CATT, TDIA | 38.523-1 | 2890 | 1 | Rel-16 | F | TEI16\_Test, SRVCC\_NR\_to\_UMTS-UEConTest | agreed |
| R5-222180 | Correction of 5GS IMS test case 11.4.12 | NTTDOCOMO,INC | 38.523-1 | 2891 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223438 | Correction of 5GS IMS test case 11.4.12 | NTTDOCOMO,INC | 38.523-1 | 2891 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222181 | Correction to TC 11.3.8 UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running | CATT, TDIA | 38.523-1 | 2892 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223434 | Correction to TC 11.3.8 UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running | CATT, TDIA | 38.523-1 | 2892 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222259 | Addition of applicable R15 tests for SNPN-only UE in a new clause | Qualcomm CDMA Technologies | 38.523-1 | 2893 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | withdrawn |
| R5-222261 | Editorial update of NR RRC TC 8.1.1.3.7b | Qualcomm CDMA Technologies | 38.523-1 | 2894 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222262 | Editorial update of NR RRC TC 8.1.3.1.20 | Qualcomm CDMA Technologies | 38.523-1 | 2895 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222263 | Addition of new NR5G NPN TC 6.5.2.3 | Qualcomm CDMA Technologies | 38.523-1 | 2896 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223379 | Addition of new NR5G NPN TC 6.5.2.3 | Qualcomm CDMA Technologies | 38.523-1 | 2896 | 1 | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | agreed |
| R5-222264 | Addition of new NR5G NPN TC 6.5.2.5 | Qualcomm CDMA Technologies | 38.523-1 | 2897 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | withdrawn |
| R5-222267 | Correction to NR5GC testcase 11.6.x | Qualcomm CDMA Technologies, Anritsu Ltd, Keysight UK | 38.523-1 | 2898 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223440 | Correction to NR5GC testcase 11.6.x | Qualcomm CDMA Technologies, Anritsu Ltd, Keysight UK | 38.523-1 | 2898 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222270 | Correction to R16 eNS TC 9.1.10.3 | Qualcomm CDMA Technologies, Keysight Technologies UK, Anritsu Ltd | 38.523-1 | 2899 | - | Rel-16 | F | TEI16\_Test, eNS-UEConTest | revised |
| R5-223429 | Correction to R16 eNS TC 9.1.10.3 | Qualcomm CDMA Technologies, Keysight Technologies UK, Anritsu Ltd | 38.523-1 | 2899 | 1 | Rel-16 | F | TEI16\_Test, eNS-UEConTest | agreed |
| R5-222271 | Correction to R16 eNS TC 9.1.10.1 | Qualcomm CDMA Technologies | 38.523-1 | 2900 | - | Rel-16 | F | TEI16\_Test, eNS-UEConTest | agreed |
| R5-222272 | Correction to EN-DC RRC TC 8.2.3.17.1 | Qualcomm CDMA Technologies, Anritsu Ltd | 38.523-1 | 2901 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222273 | Editorial update of NR TC 10.1.3.2 | Qualcomm CDMA Technologies | 38.523-1 | 2902 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222277 | Editorial update of NR TC 11.1.1 | Qualcomm CDMA Technologies | 38.523-1 | 2903 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222278 | Correction to NR MDT test case 8.1.6.1.4.8 | Qualcomm CDMA Technologies, Keysight Technologies UK | 38.523-1 | 2904 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | revised |
| R5-223385 | Correction to NR MDT test case 8.1.6.1.4.8 | Qualcomm CDMA Technologies, Keysight Technologies UK | 38.523-1 | 2904 | 1 | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222279 | Correction to NR5GC testcase 11.1.2 | Qualcomm CDMA Technologies, Rohde&Schwarz, Anritsu Ltd, Keysight | 38.523-1 | 2905 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223430 | Correction to NR5GC testcase 11.1.2 | Qualcomm CDMA Technologies, Rohde&Schwarz, Anritsu Ltd, Keysight | 38.523-1 | 2905 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222362 | Correction to DRX adaptation test case 7.1.1.12.3 | MCC TF160 | 38.523-1 | 2906 | - | Rel-16 | F | NR\_UE\_pow\_sav-UEConTest | agreed |
| R5-222376 | Correction to Inter-System MDT test case 8.1.6.3.3.3 | MCC TF160 | 38.523-1 | 2907 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222382 | Correction to NR PDCP test case 7.1.3.5.2 | MCC TF160 | 38.523-1 | 2908 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222383 | Corrections to NR IIoT PDCP test cases 7.1.3.5.6.x | MCC TF160 | 38.523-1 | 2909 | - | Rel-16 | F | TEI16\_Test, NR\_IioT-UEConTest | revised |
| R5-223421 | Corrections to NR IIoT PDCP test cases 7.1.3.5.6.x | MCC TF160 | 38.523-1 | 2909 | 1 | Rel-16 | F | TEI16\_Test, NR\_IioT-UEConTest | agreed |
| R5-222384 | Update to UE Radio Capability Id field in RACS test cases | MCC TF160 | 38.523-1 | 2910 | - | Rel-16 | F | TEI16\_Test, RACS-UEConTest | agreed |
| R5-222417 | Editorial Correction to NR Test case 8.1.4.4.3 | ANRITSU LTD | 38.523-1 | 2911 | - | Rel-16 | F | NR\_Mob\_enh-UEConTest | revised |
| R5-223340 | Editorial Correction to NR Test case 8.1.4.4.3 | ANRITSU LTD | 38.523-1 | 2911 | 1 | Rel-16 | F | NR\_Mob\_enh-UEConTest | agreed |
| R5-222418 | Correction to NR5GC testcase 8.1.5.9.1 | Qualcomm Incorporated, MCC TF 160 | 38.523-1 | 2912 | - | Rel-16 | F | TEI16\_Test, RACS-UEConTest | agreed |
| R5-222430 | Update test case 11.1.1a | Ericsson | 38.523-1 | 2913 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222445 | Correction to NR testcase 8.1.4.4.4 | ROHDE & SCHWARZ, Anritsu Ltd | 38.523-1 | 2914 | - | Rel-16 | F | NR\_Mob\_enh-UEConTest | revised |
| R5-223358 | Correction to NR testcase 8.1.4.4.4 | ROHDE & SCHWARZ, Anritsu Ltd | 38.523-1 | 2914 | 1 | Rel-16 | F | NR\_Mob\_enh-UEConTest | agreed |
| R5-222446 | Correction to NR testcase 8.1.4.4.2 | ROHDE & SCHWARZ | 38.523-1 | 2915 | - | Rel-16 | F | NR\_Mob\_enh-UEConTest | agreed |
| R5-222447 | Correction to NR5GC testcase 7.1.3.4.1 | ROHDE & SCHWARZ | 38.523-1 | 2916 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223422 | Correction to NR5GC testcase 7.1.3.4.1 | ROHDE & SCHWARZ | 38.523-1 | 2916 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222466 | Update of test case 8.2.3.6.2 for Intra-frequency measurements Event A3 in NE-DC | CMCC | 38.523-1 | 2917 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223345 | Update of test case 8.2.3.6.2 for Intra-frequency measurements Event A3 in NE-DC | CMCC | 38.523-1 | 2917 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222467 | Update of test case 8.2.3.6.2a for Inter-frequency measurements Event A3 in NE-DC | CMCC | 38.523-1 | 2918 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223346 | Update of test case 8.2.3.6.2a for Inter-frequency measurements Event A3 in NE-DC | CMCC | 38.523-1 | 2918 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222468 | Update of test case 8.2.3.6.2b for Inter-band measurements Event A3 in NE-DC | CMCC | 38.523-1 | 2919 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223347 | Update of test case 8.2.3.6.2b for Inter-band measurements Event A3 in NE-DC | CMCC | 38.523-1 | 2919 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222469 | Update of test case 8.2.1.1.2 for UE capability transfer in NE-DC | CMCC | 38.523-1 | 2920 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223344 | Update of test case 8.2.1.1.2 for UE capability transfer in NE-DC | CMCC | 38.523-1 | 2920 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222470 | Update of test case 8.2.2.4.3 for SCG DRB in NE-DC | CMCC, MCC TF160 | 38.523-1 | 2921 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222471 | Addition of new NR5GC CAG testcase 6.5.2.6 | ROHDE & SCHWARZ | 38.523-1 | 2922 | - | Rel-16 | B | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223380 | Addition of new NR5GC CAG testcase 6.5.2.6 | ROHDE & SCHWARZ | 38.523-1 | 2922 | 1 | Rel-16 | B | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | agreed |
| R5-222511 | Correction to NR PDCP test case 7.1.3.4.1 | Keysight Technologies UK | 38.523-1 | 2923 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222550 | Correction to NR5GC CAG testcase 6.5.2.1 | ROHDE & SCHWARZ, MediaTek | 38.523-1 | 2924 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223381 | Correction to NR5GC CAG testcase 6.5.2.1 | ROHDE & SCHWARZ, MediaTek | 38.523-1 | 2924 | 1 | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | agreed |
| R5-222653 | Correction to EN-DC TC 8.2.6.1.1.x - RLC failure | Huawei,Hisilicon | 38.523-1 | 2925 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222656 | Modification of testcase 8.1.5.11.2 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2926 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223402 | Modification of testcase 8.1.5.11.2 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2926 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222671 | Correction to SON-MDT test case 8.1.6.1.2.x | Starpoint,  MediaTek Inc | 38.523-1 | 2927 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | revised |
| R5-223496 | Correction to SON-MDT test case 8.1.6.1.2.x | Starpoint,  MediaTek Inc | 38.523-1 | 2927 | 1 | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-222690 | Correction to UAC test case 11.3.1a | Keysight Technologies UK Ltd | 38.523-1 | 2928 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223435 | Correction to UAC test case 11.3.1a | Keysight Technologies UK Ltd | 38.523-1 | 2928 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222705 | Modification of testcase 8.1.5.11.3 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2929 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223403 | Modification of testcase 8.1.5.11.3 Idle/Inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2929 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222707 | Addition of new test case 8.2.5.3.3 | Element Materials Technology | 38.523-1 | 2930 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223426 | Addition of new test case 8.2.5.3.3 | Element Materials Technology | 38.523-1 | 2930 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222708 | Addition of new test case 8.2.5.4.3 | Element Materials Technology | 38.523-1 | 2931 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222711 | Update of TC 12.1.3.1- PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration | TDIA, CATT | 38.523-1 | 2932 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223366 | Update of TC 12.1.3.1- PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration | TDIA, CATT | 38.523-1 | 2932 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222712 | Update of TC 12.1.5.1- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | 38.523-1 | 2933 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223367 | Update of TC 12.1.5.1- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | 38.523-1 | 2933 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222713 | Update of TC 12.1.5.2- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | 38.523-1 | 2934 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223368 | Update of TC 12.1.5.2- PC5-only operation / Sidelink CSI reporting | TDIA, CATT | 38.523-1 | 2934 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222714 | Update of TC 12.2.1.6- Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception | TDIA, CATT | 38.523-1 | 2935 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223369 | Update of TC 12.2.1.6- Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception | TDIA, CATT | 38.523-1 | 2935 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222715 | Update of TC 12.2.4.1- Inter-carrier concurrent operation / Sidelink Reconfiguration via Uu RRC / SL DRB management / transmission side | TDIA, CATT | 38.523-1 | 2936 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222716 | Update of TC 12.2.5.3- Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting | TDIA, CATT | 38.523-1 | 2937 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223370 | Update of TC 12.2.5.3- Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting | TDIA, CATT | 38.523-1 | 2937 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222749 | Correction to NR MAC test cases 7.1.1.4.2.x | Keysight Technologies UK Ltd | 38.523-1 | 2938 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222753 | Correction to NR TC 11.3.5-UAC New cell not in the country of its HPLMN | Huawei, Hisilicon | 38.523-1 | 2939 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223436 | Correction to NR TC 11.3.5-UAC New cell not in the country of its HPLMN | Huawei, Hisilicon | 38.523-1 | 2939 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222754 | Correction to NR TC 11.3.6-UAC for Access Identity 2 | Huawei, Hisilicon | 38.523-1 | 2940 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223437 | Correction to NR TC 11.3.6-UAC for Access Identity 2 | Huawei, Hisilicon | 38.523-1 | 2940 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222811 | Correction to NR TC 7.1.1.10.1-DataInactivityTimer expiry | Huawei, Hisilicon | 38.523-1 | 2941 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222812 | Correction to NR TC 7.1.1.7.1.1-Activation and Deactivation of Scells | Huawei, Hisilicon | 38.523-1 | 2942 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222813 | Correction to NR TC 11.3.1-UAC for MO Speech Call and SMSoIP | Huawei, Hisilicon | 38.523-1 | 2943 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222814 | Correction to NR TC 6.3.1.10-SOR during Mobility Update Registration | Huawei, Hisilicon | 38.523-1 | 2944 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222815 | Correction to NR TC 11.1.2-EPS Fallback with redirection without N26 | Huawei, Hisilicon | 38.523-1 | 2945 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223431 | Correction to NR TC 11.1.2-EPS Fallback with redirection without N26 | Huawei, Hisilicon | 38.523-1 | 2945 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222816 | Correction to NR CA TC 8.1.5.7.1-CA duplication | Huawei, Hisilicon,Starpoint | 38.523-1 | 2946 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223424 | Correction to NR CA TC 8.1.5.7.1-CA duplication | Huawei, Hisilicon,Starpoint | 38.523-1 | 2946 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222819 | Correction to NR V2X NAS TC 13.2.1-Confilict Layer 2 ID | Huawei, Hisilicon,TF160 | 38.523-1 | 2947 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | withdrawn |
| R5-222820 | Correction to NR V2X NAS TC 13.2.2 and 13.2.6 | Huawei, Hisilicon,TF160 | 38.523-1 | 2948 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | withdrawn |
| R5-222838 | Correction to NR5GC testcase 8.1.1.2.4 | ROHDE & SCHWARZ | 38.523-1 | 2949 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223423 | Correction to NR5GC testcase 8.1.1.2.4 | ROHDE & SCHWARZ | 38.523-1 | 2949 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222858 | Add test case 11.1.3a | Ericsson | 38.523-1 | 2950 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223432 | Add test case 11.1.3a | Ericsson | 38.523-1 | 2950 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222934 | Update of RACS TC 8.1.5.9.1 | MediaTek Inc. | 38.523-1 | 2951 | - | Rel-16 | F | TEI16\_Test, RACS-UEConTest | revised |
| R5-223425 | Update of RACS TC 8.1.5.9.1 | MediaTek Inc. | 38.523-1 | 2951 | 1 | Rel-16 | F | TEI16\_Test, RACS-UEConTest | agreed |
| R5-222935 | Update of 5GMM TC 9.1.5.1.15 | MediaTek Inc. | 38.523-1 | 2952 | - | Rel-16 | F | TEI15\_Test | revised |
| R5-223427 | Update of 5GMM TC 9.1.5.1.15 | MediaTek Inc. | 38.523-1 | 2952 | 1 | Rel-16 | F | TEI15\_Test | agreed |
| R5-222937 | Update of NR5G NPN TC 6.5.2.2 and 6.5.2.4 | MediaTek Inc. | 38.523-1 | 2953 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223382 | Update of NR5G NPN TC 6.5.2.2 and 6.5.2.4 | MediaTek Inc. | 38.523-1 | 2953 | 1 | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | agreed |
| R5-222941 | Correction to NR V2X test case 12.1.6.2 | Lenovo, MCC TF160 | 38.523-1 | 2954 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222942 | Correction to NR V2X test case 12.1.6.1 | Lenovo, MCC TF160 | 38.523-1 | 2955 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222943 | Addition of new NR V2X test case 12.1.4.1 | Lenovo | 38.523-1 | 2956 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223371 | Addition of new NR V2X test case 12.1.4.1 | Lenovo | 38.523-1 | 2956 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222944 | Addition of new NR V2X test case 13.2.3 | Lenovo | 38.523-1 | 2957 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223372 | Addition of new NR V2X test case 13.2.3 | Lenovo | 38.523-1 | 2957 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222945 | Addition of new NR V2X test case 13.2.4 | Lenovo | 38.523-1 | 2958 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223373 | Addition of new NR V2X test case 13.2.4 | Lenovo | 38.523-1 | 2958 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222948 | Addition of new SNPN test case | Lenovo | 38.523-1 | 2959 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223495 | Addition of new SNPN test case | Lenovo | 38.523-1 | 2959 | 1 | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | agreed |
| R5-222951 | Addition of new NR-NR Dual Connectivity test case | Lenovo | 38.523-1 | 2960 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223497 | Addition of new NR-NR Dual Connectivity test case | Lenovo | 38.523-1 | 2960 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222953 | Correction to NR URLLC MAC Test Case 7.1.1.4.1.5 | Lenovo, MCC TF160 | 38.523-1 | 2961 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222954 | Correction to NR URLLC MAC Test Case 7.1.1.4.2.6 | Lenovo, MCC TF160 | 38.523-1 | 2962 | - | Rel-16 | F | NR\_L1enh\_URLLC-UEConTest | agreed |
| R5-222956 | Addition of new NR V2X test case 12.1.4.2 | Lenovo | 38.523-1 | 2963 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223374 | Addition of new NR V2X test case 12.1.4.2 | Lenovo | 38.523-1 | 2963 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222995 | Correction to MDT test case 8.1.6.1.3.3 | TDIA, CATT | 38.523-1 | 2964 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223015 | Update of NR V2X TC 12.1.3.3 | TDIA, CATT | 38.523-1 | 2965 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223375 | Update of NR V2X TC 12.1.3.3 | TDIA, CATT | 38.523-1 | 2965 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-223019 | Correction to Idle/Inactive measurements TC 8.1.5.11.5 | TDIA, CATT | 38.523-1 | 2966 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | withdrawn |
| R5-223020 | Correction to Idle/Inactive measurements TC 8.1.5.11.3 | TDIA, CATT | 38.523-1 | 2967 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | withdrawn |
| R5-223021 | Update of 5G-SRVCC TC 11.2.1 | MediaTek Inc. | 38.523-1 | 2968 | - | Rel-16 | F | TEI16\_Test, SRVCC\_NR\_to\_UMTS-UEConTest | revised |
| R5-223433 | Update of 5G-SRVCC TC 11.2.1 | MediaTek Inc. | 38.523-1 | 2968 | 1 | Rel-16 | F | TEI16\_Test, SRVCC\_NR\_to\_UMTS-UEConTest | agreed |
| R5-223047 | Update of Emergency Services TC 11.4.x | MediaTek Inc. | 38.523-1 | 2969 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-223052 | Update of NR MDT test case 8.1.6.1.4.5 | MediaTek Inc. | 38.523-1 | 2970 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223059 | Update of NR MDT test case 8.1.6.3.4.x | MediaTek Inc. | 38.523-1 | 2971 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223060 | Correction to Emergency Call test cases 11.4.x | Keysight Technologies UK Ltd, MCC TF160, Mediatek | 38.523-1 | 2972 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223439 | Correction to Emergency Call test cases 11.4.x | Keysight Technologies UK Ltd, MCC TF160, Mediatek | 38.523-1 | 2972 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223062 | Modification of testcase 8.1.5.11.4 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2973 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223404 | Modification of testcase 8.1.5.11.4 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2973 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-223064 | Correction to NR V2X NAS TC 13.2.1-Conflict Layer 2 ID | Huawei, Hisilicon,MCC TF160 | 38.523-1 | 2974 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-223065 | Correction to NR V2X NAS TC 13.2.2-link seurity mode | Huawei, Hisilicon,MCC TF160 | 38.523-1 | 2975 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-223066 | Correction to NR V2X NAS TC 13.2.6-link keep alive | Huawei, Hisilicon,MCC TF160 | 38.523-1 | 2976 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223376 | Correction to NR V2X NAS TC 13.2.6-link keep alive | Huawei, Hisilicon,MCC TF160 | 38.523-1 | 2976 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-223068 | Correction of cell number in the test procedure of 8.1.3.1.15A | OPPO, ZEKU | 38.523-1 | 2977 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223343 | Correction of cell number in the test procedure of 8.1.3.1.15A | OPPO, ZEKU | 38.523-1 | 2977 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223069 | Correction of Equivalent PLMN ID in the test procedure of 9.1.5.1.2 | OPPO, ZEKU | 38.523-1 | 2978 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223428 | Correction of Equivalent PLMN ID in the test procedure of 9.1.5.1.2 | OPPO, ZEKU | 38.523-1 | 2978 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223071 | Update of NR MDT test case 8.1.6.3.2.x | MediaTek Inc. | 38.523-1 | 2979 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | revised |
| R5-223386 | Update of NR MDT test case 8.1.6.3.2.x | MediaTek Inc. | 38.523-1 | 2979 | 1 | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223083 | Updates to test case 11.6.1 | Ericsson | 38.523-1 | 2980 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223441 | Updates to test case 11.6.1 | Ericsson | 38.523-1 | 2980 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223085 | Correction to NR RLC test case 7.1.2.3.7 | Keysight Technologies UK Ltd | 38.523-1 | 2981 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223086 | Update of NR MDT test case 8.1.6.1.2.12 | MediaTek Inc. | 38.523-1 | 2982 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | withdrawn |
| R5-223087 | Correction to SOR test case 6.3.1.10 | Keysight Technologies UK Ltd, Huawei, HiSilicon | 38.523-1 | 2983 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223418 | Correction to SOR test case 6.3.1.10 | Keysight Technologies UK Ltd, Huawei, HiSilicon | 38.523-1 | 2983 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223202 | Modification of testcase 8.1.5.11.5 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2984 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223405 | Modification of testcase 8.1.5.11.5 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2984 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-223247 | Modification of testcase 8.1.5.11.6 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2985 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223406 | Modification of testcase 8.1.5.11.6 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2985 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-223249 | Update to NR EIEI test cases 11.5.1, 11.5.2, 11.5.5 | Qualcomm Incorporated, CETECOM GmbH | 38.523-1 | 2986 | - | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223252 | Correction of USIM configuration in RACS test case 9.1.9.4 | Qualcomm India Pvt Ltd | 38.523-1 | 2987 | - | Rel-16 | F | TEI16\_Test, RACS-UEConTest | agreed |
| R5-223257 | Addition of new NR EIEI test case 8.1.4.1.10 | Qualcomm India Pvt Ltd | 38.523-1 | 2988 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223392 | Addition of new NR EIEI test case 8.1.4.1.10 | Qualcomm India Pvt Ltd | 38.523-1 | 2988 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223260 | Addition of NR EIEI test case 11.5.6 | Qualcomm India Pvt Ltd | 38.523-1 | 2989 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223393 | Addition of NR EIEI test case 11.5.6 | Qualcomm India Pvt Ltd | 38.523-1 | 2989 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223263 | Addition of NR EIEI test case 11.5.7 | Qualcomm India Pvt Ltd | 38.523-1 | 2990 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223394 | Addition of NR EIEI test case 11.5.7 | Qualcomm India Pvt Ltd | 38.523-1 | 2990 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223264 | Update of test case 8.1.6.1.1.2 | MediaTek | 38.523-1 | 2991 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223265 | Addition of NR EIEI test case 11.5.9 | Qualcomm India Pvt Ltd | 38.523-1 | 2992 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223395 | Addition of NR EIEI test case 11.5.9 | Qualcomm India Pvt Ltd | 38.523-1 | 2992 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223267 | Addition of NR EIEI test case 11.5.10 | Qualcomm India Pvt Ltd | 38.523-1 | 2993 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223396 | Addition of NR EIEI test case 11.5.10 | Qualcomm India Pvt Ltd | 38.523-1 | 2993 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223268 | Addition of NR EIEI test case 11.5.11 | Qualcomm India Pvt Ltd | 38.523-1 | 2994 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223397 | Addition of NR EIEI test case 11.5.11 | Qualcomm India Pvt Ltd | 38.523-1 | 2994 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223270 | Addition of NR EIEI test case 11.5.13 | Qualcomm India Pvt Ltd | 38.523-1 | 2995 | - | Rel-16 | F | NR\_EIEI-UEConTest | revised |
| R5-223398 | Addition of NR EIEI test case 11.5.13 | Qualcomm India Pvt Ltd | 38.523-1 | 2995 | 1 | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223273 | Update of test case TC 8.1.6.2.3 | MediaTek | 38.523-1 | 2996 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223274 | Update to test case 8.1.6.1.3.6 | MediaTek | 38.523-1 | 2997 | - | Rel-16 | F | NR\_SON\_MDT-UEConTest | agreed |
| R5-223279 | Correction to NR5GC CAG testcase 6.5.2.2 | ROHDE & SCHWARZ, MediaTek | 38.523-1 | 2998 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223353 | Correction to NR5GC CAG testcase 6.5.2.2 | ROHDE & SCHWARZ, MediaTek | 38.523-1 | 2998 | 1 | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | withdrawn |
| R5-223282 | Modification of testcase 8.1.5.11.1 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2999 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223407 | Modification of testcase 8.1.5.11.1 idle/inactive measurements | Nokia, Nokia Shanghai Bell | 38.523-1 | 2999 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | withdrawn |
| R5-223350 | Correction to emergency services test case 11.4.4 | Qualcomm Incorporated, ROHDE & SCHWARZ | 38.523-1 | 3002 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222124 | Update of 5G-NR test cases applicability | Qualcomm Incorporated, Lenovo, Motorola Mobility, Element Materials Technology, CATT, TDIA | 38.523-2 | 0217 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223442 | Update of 5G-NR test cases applicability | Qualcomm Incorporated, Lenovo, Motorola Mobility, Element Materials Technology, CATT, TDIA | 38.523-2 | 0217 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222258 | Addition of SNPN only applicability | Qualcomm CDMA Technologies | 38.523-2 | 0218 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | withdrawn |
| R5-222465 | Update of applicability statement for test cases for NE-DC RRC | CMCC | 38.523-2 | 0219 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223348 | Update of applicability statement for test cases for NE-DC RRC | CMCC | 38.523-2 | 0219 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222740 | Update for 6.3.3.1 General clause of Tx ON-OFF time mask | Qualcomm Israel Ltd. | 38.523-2 | 0220 | - | Rel-16 | F | TEI16\_Test | withdrawn |
| R5-222859 | Add applicability for test case 11.1.3a | Ericsson | 38.523-2 | 0221 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222936 | Update of E-UTRA release for EPSFB TC 11.1.8 and 11.1.9 | MediaTek Inc. | 38.523-2 | 0222 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222946 | Addition of applicability of new NR V2X test cases | Lenovo | 38.523-2 | 0223 | - | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223377 | Addition of applicability of new NR V2X test cases | Lenovo | 38.523-2 | 0223 | 1 | Rel-16 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222949 | Addition of Applicability of new SNPN test case | Lenovo | 38.523-2 | 0224 | - | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | revised |
| R5-223383 | Addition of Applicability of new SNPN test case | Lenovo | 38.523-2 | 0224 | 1 | Rel-16 | F | NG\_RAN\_PRN\_Vertical\_LAN-UEConTest | agreed |
| R5-222952 | Addition of Applicability of new NR-NR Dual Connectivity test case | Lenovo | 38.523-2 | 0225 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223408 | Addition of Applicability of new NR-NR Dual Connectivity test case | Lenovo | 38.523-2 | 0225 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | not pursued |
| R5-223014 | Update applicability for Idle/Inactive measurements test cases | TDIA, CATT | 38.523-2 | 0226 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | withdrawn |
| R5-223255 | Applicability updates to NR EIEI test cases | Qualcomm India Pvt Ltd | 38.523-2 | 0227 | - | Rel-16 | F | NR\_EIEI-UEConTest | agreed |
| R5-223256 | Modification of idle/inactive testcase applicabilities | Nokia, Nokia Shanghai Bell | 38.523-2 | 0228 | - | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | revised |
| R5-223409 | Modification of idle/inactive testcase applicabilities | Nokia, Nokia Shanghai Bell | 38.523-2 | 0228 | 1 | Rel-16 | F | LTE\_NR\_DC\_CA\_enh-UEConTest | agreed |
| R5-222377 | NR Positioning: addition of posSIBs support | MCC TF160 | 38.523-3 | 2513 | - | Rel-17 | F | NR\_pos-UEConTest | agreed |
| R5-222378 | 5G V2X: Test Model updates | MCC TF160 | 38.523-3 | 2514 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | revised |
| R5-223378 | 5G V2X: Test Model updates | MCC TF160 | 38.523-3 | 2514 | 1 | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222385 | 5G Rel-15: Test Models updates | MCC TF160 | 38.523-3 | 2515 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223443 | 5G Rel-15: Test Models updates | MCC TF160 | 38.523-3 | 2515 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222856 | Correction to clause 7.3.5.3.4 Sequence of intra-NR inter-cell CA handover | ROHDE & SCHWARZ | 38.523-3 | 2520 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222916 | NR IIoT: Test Model updates | MCC TF160 | 38.523-3 | 2521 | - | Rel-17 | F | TEI16\_Test, NR\_IioT-UEConTest | revised |
| R5-223444 | NR IIoT: Test Model updates | MCC TF160 | 38.523-3 | 2521 | 1 | Rel-17 | F | TEI16\_Test, NR\_IioT-UEConTest | agreed |
| R5-222182 | Correction to EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX including TT | Anritsu | 38.533 | 1750 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223607 | Correction to EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX including TT | Anritsu | 38.533 | 1750 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222328 | Editorial reference correction to NR SA FR2 cell re-selection test requirements | Nokia, Nokia Shanghai Bell | 38.533 | 1751 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223859 | Editorial reference correction to NR SA FR2 cell re-selection test requirements | Nokia, Nokia Shanghai Bell | 38.533 | 1751 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222490 | Correction to test time in 6.1.1.7 | Anritsu | 38.533 | 1752 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222491 | Editorial correction in 6.1.2.5 | Anritsu | 38.533 | 1753 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222492 | Correction to physical cell identity in 6.6.3.2 and 6.6.3.3 | Anritsu | 38.533 | 1754 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222493 | Correction to test procedure in 8.2.1.2 | Anritsu | 38.533 | 1755 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222494 | Correction to test procedure in 8.5.1.1 | Anritsu | 38.533 | 1756 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222504 | Correction to CSI-RS for tracking in 5.6.1.2 | Anritsu | 38.533 | 1757 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223854 | Correction to CSI-RS for tracking in 5.6.1.2 | Anritsu | 38.533 | 1757 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222505 | Correction to test parameters in 5.6.1.x and 5.6.2.x | Anritsu | 38.533 | 1758 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222506 | Correction to Active UL BWP-2 Configuration in 4.5.6.1.1 and 6.5.6.1.2 | Anritsu | 38.533 | 1759 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223874 | Correction to Active UL BWP-2 Configuration in 4.5.6.1.1 and 6.5.6.1.2 | Anritsu | 38.533 | 1759 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222507 | Correction to DRX offset setting in 6.6.1.7 | Anritsu | 38.533 | 1760 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222508 | Correction to DRX offset setting in 6.6.3.3 | Anritsu | 38.533 | 1761 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222509 | Correction to DRX offset setting in 8.4.2.x | Anritsu | 38.533 | 1762 | - | Rel-17 | F | NR\_HST-UEConTest | agreed |
| R5-222515 | Completing 5.7.4.1 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1763 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223615 | Completing 5.7.4.1 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1763 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222516 | Completing 5.7.4.2 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1764 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223855 | Completing 5.7.4.2 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1764 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222517 | Add minimum requirements for 7.7.4 | ROHDE & SCHWARZ | 38.533 | 1765 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222518 | Completing 7.7.4.1 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1766 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223616 | Completing 7.7.4.1 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1766 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222519 | Completing 7.7.4.2 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1767 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223860 | Completing 7.7.4.2 including TT analysis | ROHDE & SCHWARZ | 38.533 | 1767 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222520 | Annex F for L1-RSRP meas accuracy test cases | ROHDE & SCHWARZ | 38.533 | 1768 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223863 | Annex F for L1-RSRP meas accuracy test cases | ROHDE & SCHWARZ | 38.533 | 1768 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222522 | Remove incorrect references - Chapter 4 | ROHDE & SCHWARZ | 38.533 | 1769 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222523 | Remove incorrect references - Chapter 5 | ROHDE & SCHWARZ | 38.533 | 1770 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222524 | Remove incorrect references - Chapter 6 | ROHDE & SCHWARZ | 38.533 | 1771 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222525 | Remove incorrect references - Chapter 7 | ROHDE & SCHWARZ | 38.533 | 1772 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222526 | Remove incorrect references - Chapter 8 | ROHDE & SCHWARZ | 38.533 | 1773 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222527 | Corrections to 6.6.3.1 | ROHDE & SCHWARZ | 38.533 | 1774 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222528 | Corrections to 8.4.1.2 | ROHDE & SCHWARZ | 38.533 | 1775 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222529 | Modification to the asynchronous / synchronous cells conditions | ROHDE & SCHWARZ | 38.533 | 1776 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222530 | Corrections to 4.7.5.1 | ROHDE & SCHWARZ | 38.533 | 1777 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223850 | Corrections to 4.7.5.1 | ROHDE & SCHWARZ | 38.533 | 1777 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222531 | Clean-up asynchronous / synchronous cells conditions for IRAT | ROHDE & SCHWARZ | 38.533 | 1778 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222532 | Editorial correction to H.3.4-5 | ROHDE & SCHWARZ | 38.533 | 1779 | - | Rel-17 | F | TEI15\_Test | agreed |
| R5-222533 | Corrections to 5.6.1.3 | ROHDE & SCHWARZ | 38.533 | 1780 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222534 | Corrections to 5.6.1.4 | ROHDE & SCHWARZ | 38.533 | 1781 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222535 | Correction to H.3.4-7 | ROHDE & SCHWARZ | 38.533 | 1782 | - | Rel-17 | F | TEI15\_Test | agreed |
| R5-222536 | Editorial correction 4.5.5.x | ROHDE & SCHWARZ | 38.533 | 1783 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222538 | Corrections to 4.5.5.1 | ROHDE & SCHWARZ | 38.533 | 1784 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223851 | Corrections to 4.5.5.1 | ROHDE & SCHWARZ | 38.533 | 1784 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222539 | Corrections to 4.5.5.2 | ROHDE & SCHWARZ | 38.533 | 1785 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223852 | Corrections to 4.5.5.2 | ROHDE & SCHWARZ | 38.533 | 1785 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223870 | Corrections to 4.5.5.2 | ROHDE & SCHWARZ | 38.533 | 1785 | 2 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222559 | Introduction of EN-DC FR2 SRS-RSRP measurement in non-DRX test case 5.6.4.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1786 | - | Rel-17 | F | NR\_CLI-UEConTest | revised |
| R5-223710 | Introduction of EN-DC FR2 SRS-RSRP measurement in non-DRX test case 5.6.4.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1786 | 1 | Rel-17 | F | NR\_CLI-UEConTest | agreed |
| R5-222560 | Introduction of EN-DC FR2 SRS-RSRP measurement accuracy test case 5.7.5.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1787 | - | Rel-17 | F | NR\_CLI-UEConTest | revised |
| R5-223711 | Introduction of EN-DC FR2 SRS-RSRP measurement accuracy test case 5.7.5.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1787 | 1 | Rel-17 | F | NR\_CLI-UEConTest | agreed |
| R5-222592 | Alignment of RMC note for DRX test cases | QUALCOMM Europe Inc. - Italy | 38.533 | 1788 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223864 | Alignment of RMC note for DRX test cases | QUALCOMM Europe Inc. - Italy | 38.533 | 1788 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222593 | Update to FR1 Scell activation and deactivation test cases | QUALCOMM Europe Inc. - Italy | 38.533 | 1789 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223886 | Update to FR1 Scell activation and deactivation test cases | QUALCOMM Europe Inc. - Italy | 38.533 | 1789 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222594 | Update to FR2 interruption test case 5.5.2.1 | QUALCOMM Europe Inc. - Italy | 38.533 | 1790 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223856 | Update to FR2 interruption test case 5.5.2.1 | QUALCOMM Europe Inc. - Italy | 38.533 | 1790 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222633 | Correction to NR SL RRM TCs | Huawei,Hisilicon | 38.533 | 1791 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222636 | Correction to FR1 EN-DC TC 4.7.5.1 - SFTD | Huawei,Hisilicon | 38.533 | 1792 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222637 | Correction to FR2 EN-DC BFD TCs | Huawei,Hisilicon | 38.533 | 1793 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223857 | Correction to FR2 EN-DC BFD TCs | Huawei,Hisilicon | 38.533 | 1793 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222638 | Correction to FR1 NR SA TCs 6.1.2.2 - low priority reselection | Huawei,Hisilicon | 38.533 | 1794 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222639 | Correction to FR2 NR SA BFD TCs | Huawei,Hisilicon | 38.533 | 1795 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223861 | Correction to FR2 NR SA BFD TCs | Huawei,Hisilicon | 38.533 | 1795 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222640 | Correction to inter-RAT TC 8.5.1.1 - SFTD | Huawei,Hisilicon | 38.533 | 1796 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222689 | Introduction of NR SA FR2 SRS-RSRP measurement in non-DRX test case 7.6.4.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1797 | - | Rel-17 | F | NR\_CLI-UEConTest | revised |
| R5-223712 | Introduction of NR SA FR2 SRS-RSRP measurement in non-DRX test case 7.6.4.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1797 | 1 | Rel-17 | F | NR\_CLI-UEConTest | agreed |
| R5-222706 | Introduction of NR SA FR2 SRS-RSRP measurement accuracy test case 7.7.5.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1798 | - | Rel-17 | F | NR\_CLI-UEConTest | revised |
| R5-223713 | Introduction of NR SA FR2 SRS-RSRP measurement accuracy test case 7.7.5.1 | Qualcomm Austria RFFE GmbH | 38.533 | 1798 | 1 | Rel-17 | F | NR\_CLI-UEConTest | agreed |
| R5-222719 | Completion 4.7.7.1 and 6.7.9.1 including TT anaysis results | Sporton | 38.533 | 1799 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223610 | Completion 4.7.7.1 and 6.7.9.1 including TT anaysis results | Sporton | 38.533 | 1799 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-222721 | Completion 4.7.7.2 and 6.7.9.2 including TT anaysis results | Sporton | 38.533 | 1800 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223611 | Completion 4.7.7.2 and 6.7.9.2 including TT anaysis results | Sporton | 38.533 | 1800 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-222723 | Completion 4.7.7.3 and 6.7.9.3 including TT anaysis results | Sporton | 38.533 | 1801 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223612 | Completion 4.7.7.3 and 6.7.9.3 including TT anaysis results | Sporton | 38.533 | 1801 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-222724 | Update to eMIMO test cases 4.5.5.6 and 4.5.5.7 | Sporton, Huawei, HiSilicon | 38.533 | 1802 | - | Rel-17 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-222882 | Editorial update to minimum requirement in 6.5.7.0 | Huawei, HiSilicon | 38.533 | 1803 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222887 | Update to minimum requirements for BFR | Huawei, HiSilicon | 38.533 | 1804 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222888 | Addition of eMIMO test case 6.5.5.5 | Huawei, HiSilicon | 38.533 | 1805 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223880 | Addition of eMIMO test case 6.5.5.5 | Huawei, HiSilicon | 38.533 | 1805 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222889 | Addition of eMIMO test case 6.5.5.6 | Huawei, HiSilicon | 38.533 | 1806 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223881 | Addition of eMIMO test case 6.5.5.6 | Huawei, HiSilicon | 38.533 | 1806 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222890 | Update to FR2 SCell BFD test cases | Huawei, HiSilicon | 38.533 | 1807 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222959 | Remove condition asynchronous cells | ROHDE & SCHWARZ | 38.533 | 1808 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223853 | Remove condition asynchronous cells | ROHDE & SCHWARZ | 38.533 | 1808 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222960 | Corrections to 6.6.3.2 | ROHDE & SCHWARZ | 38.533 | 1809 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223858 | Corrections to 6.6.3.2 | ROHDE & SCHWARZ | 38.533 | 1809 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222962 | Corrections AoA setup references | ROHDE & SCHWARZ | 38.533 | 1810 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222963 | Editorial - Remove empty tables from 5.5.5.x tests | ROHDE & SCHWARZ | 38.533 | 1811 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222964 | Corrections 7.6.3.1 | ROHDE & SCHWARZ | 38.533 | 1812 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222965 | Corrections 7.6.3.2 | ROHDE & SCHWARZ | 38.533 | 1813 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222966 | Corrections 7.6.3.3 | ROHDE & SCHWARZ | 38.533 | 1814 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222967 | Corrections 7.6.3.4 | ROHDE & SCHWARZ | 38.533 | 1815 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222968 | Update to 4.3.2.2.3 | ROHDE & SCHWARZ | 38.533 | 1816 | - | Rel-17 | F | NR\_2step\_RACH-UEConTest | agreed |
| R5-222969 | Update to 4.3.2.2.4 | ROHDE & SCHWARZ | 38.533 | 1817 | - | Rel-17 | F | NR\_2step\_RACH-UEConTest | agreed |
| R5-222970 | Update to 6.3.2.2.3 | ROHDE & SCHWARZ | 38.533 | 1818 | - | Rel-17 | F | NR\_2step\_RACH-UEConTest | agreed |
| R5-222971 | Update to 6.3.2.2.4 | ROHDE & SCHWARZ | 38.533 | 1819 | - | Rel-17 | F | NR\_2step\_RACH-UEConTest | agreed |
| R5-222972 | FR1 2-step RACH tests Annexes | ROHDE & SCHWARZ | 38.533 | 1820 | - | Rel-17 | F | NR\_2step\_RACH-UEConTest | revised |
| R5-223603 | FR1 2-step RACH tests Annexes | ROHDE & SCHWARZ | 38.533 | 1820 | 1 | Rel-17 | F | NR\_2step\_RACH-UEConTest | withdrawn |
| R5-222998 | Update of 4.6.7 EN-DC FR1 L1-SINR measurement procedure | Huawei, HiSilicon | 38.533 | 1821 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222999 | Update of 6.6.8 NR SA FR1 L1-SINR measurement procedure | Huawei, HiSilicon | 38.533 | 1822 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223000 | Addition of minimum requirements for EN-DC FR2 L1-SINR measurement for beam reporting | Huawei, HiSilicon | 38.533 | 1823 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223707 | Addition of minimum requirements for EN-DC FR2 L1-SINR measurement for beam reporting | Huawei, HiSilicon | 38.533 | 1823 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223001 | Addition of 5.6.6.1 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1824 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223002 | Addition of 5.6.6.2 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1825 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223003 | Addition of 5.6.6.3 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1826 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223605 | Addition of 5.6.6.3 EN-DC FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1826 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223004 | Addition of 7.6.6.1 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1827 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223005 | Addition of 7.6.6.2 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1828 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223882 | Addition of 7.6.6.2 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1828 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223006 | Addition of 7.6.6.3 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1829 | - | Rel-17 | F | NR\_eMIMO-UEConTest | revised |
| R5-223606 | Addition of 7.6.6.3 NR SA FR2 L1-SINR measurement including Test Tolerance | Huawei, HiSilicon | 38.533 | 1829 | 1 | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223007 | Addition of Annex E and Annex F for FR2 L1-SINR measurement | Huawei, HiSilicon | 38.533 | 1830 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223169 | Correction of RRM test case 7.7.1.1 | Ericsson | 38.533 | 1831 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223862 | Correction of RRM test case 7.7.1.1 | Ericsson | 38.533 | 1831 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223172 | Correction of UL switching test case 6.5.7.1 including Test Tolerance | Ericsson | 38.533 | 1832 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223878 | Correction of UL switching test case 6.5.7.1 including Test Tolerance | Ericsson | 38.533 | 1832 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-223173 | Correction of UL switching test case 6.5.7.2 including Test Tolerance | Ericsson | 38.533 | 1833 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223879 | Correction of UL switching test case 6.5.7.2 including Test Tolerance | Ericsson | 38.533 | 1833 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-223174 | Addition of Test Tolerance for UL switching test cases in Annex F of TS 38.533 | Ericsson | 38.533 | 1834 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223876 | Addition of Test Tolerance for UL switching test cases in Annex F of TS 38.533 | Ericsson | 38.533 | 1834 | 1 | Rel-17 | F | NR\_RF\_FR1-UEConTest | withdrawn |
| R5-223214 | Editorial correction to 5G RRM TCs | Bureau Veritas | 38.533 | 1835 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223246 | Correction to Annexes for RRM SCell activation test cases | Bureau Veritas | 38.533 | 1836 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223305 | Update to eMIMO test cases 4.5.5.5 and 4.5.5.6 | Sporton, Huawei, HiSilicon | 38.533 | 1837 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222183 | Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX | Anritsu | 38.903 | 0306 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223608 | Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX | Anritsu | 38.903 | 0306 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222479 | Update FR2 TRx MU in 38.903 | Anritsu | 38.903 | 0307 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223618 | Update FR2 TRx MU in 38.903 | Anritsu | 38.903 | 0307 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222514 | TT analysis for RRM test case 5.7.4.1 and 5.7.4.2 | ROHDE & SCHWARZ | 38.903 | 0308 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223865 | TT analysis for RRM test case 5.7.4.1 and 5.7.4.2 | ROHDE & SCHWARZ | 38.903 | 0308 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222591 | Predicted SNR upper bound update | QUALCOMM Europe Inc. - Italy | 38.903 | 0309 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | withdrawn |
| R5-222718 | Addition of test tolerance analysis for 4.7.7.1 and 6.7.9.1 EN-DC FR1 L1-SINR absolute accuracy tests | Sporton | 38.903 | 0310 | - | Rel-16 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-222720 | Addition of test tolerance analysis for 4.7.7.2 and 6.7.9.2 FR1 L1-SINR absolute accuracy tests | Sporton | 38.903 | 0311 | - | Rel-16 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-222722 | Addition of test tolerance analysis for 4.7.7.3 and 6.7.9.3 EN-DC FR1 L1-SINR absolute accuracy tests | Sporton | 38.903 | 0312 | - | Rel-16 | F | NR\_eMIMO-UEConTest | withdrawn |
| R5-223008 | Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1 | Huawei, HiSilicon | 38.903 | 0313 | - | Rel-16 | F | NR\_eMIMO-UEConTest | revised |
| R5-223883 | Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1 | Huawei, HiSilicon | 38.903 | 0313 | 1 | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223009 | Addition of test tolerance analysis for 5.6.6.2 | Huawei, HiSilicon | 38.903 | 0314 | - | Rel-16 | F | NR\_eMIMO-UEConTest | revised |
| R5-223884 | Addition of test tolerance analysis for 5.6.6.2 | Huawei, HiSilicon | 38.903 | 0314 | 1 | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223010 | Addition of test tolerance analysis for 5.6.6.3 | Huawei, HiSilicon | 38.903 | 0315 | - | Rel-16 | F | NR\_eMIMO-UEConTest | revised |
| R5-223708 | Addition of test tolerance analysis for 5.6.6.3 | Huawei, HiSilicon | 38.903 | 0315 | 1 | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223011 | Addition of test tolerance analysis for 7.6.6.2 | Huawei, HiSilicon | 38.903 | 0316 | - | Rel-16 | F | NR\_eMIMO-UEConTest | revised |
| R5-223885 | Addition of test tolerance analysis for 7.6.6.2 | Huawei, HiSilicon | 38.903 | 0316 | 1 | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223012 | Addition of test tolerance analysis for 7.6.6.3 | Huawei, HiSilicon | 38.903 | 0317 | - | Rel-16 | F | NR\_eMIMO-UEConTest | revised |
| R5-223709 | Addition of test tolerance analysis for 7.6.6.3 | Huawei, HiSilicon | 38.903 | 0317 | 1 | Rel-16 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223170 | Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2 | Ericsson | 38.903 | 0318 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223866 | Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2 | Ericsson | 38.903 | 0318 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-223171 | Test Tolerances for DL Interruptions at switching between two uplink carriers test cases | Ericsson | 38.903 | 0319 | - | Rel-16 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223877 | Test Tolerances for DL Interruptions at switching between two uplink carriers test cases | Ericsson | 38.903 | 0319 | 1 | Rel-16 | F | NR\_RF\_FR1-UEConTest | revised |
| R5-223887 | Test Tolerances for DL Interruptions at switching between two uplink carriers test cases | Ericsson | 38.903 | 0319 | 2 | Rel-16 | F | NR\_RF\_FR1-UEConTest | withdrawn |
| R5-223186 | Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases | Ericsson | 38.903 | 0320 | - | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223609 | Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases | Ericsson | 38.903 | 0320 | 1 | Rel-16 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222187 | Correction of Number of test points for V2X SEM and V2X ACLR in 38.521-1 | CAICT | 38.905 | 0588 | - | Rel-17 | F | 5G\_V2X\_NRSL\_eV2XARC-UEConTest | agreed |
| R5-222188 | Correction of Justification in attachment for UL MIMO MPR and ACLR in 38.521-1 | CAICT | 38.905 | 0589 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222189 | Correction of test points analysis of 2UL CA ACLR test case in 38.521-1 | CAICT | 38.905 | 0590 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222291 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0591 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223682 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0591 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222292 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0592 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223683 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0592 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222293 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | 38.905 | 0593 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223684 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n28A | Nokia, Nokia Shanghai Bell | 38.905 | 0593 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222294 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0594 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223685 | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0594 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222295 | Introduction of reference sensitivity test point analysis for DC\_1A-20A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0595 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223686 | Introduction of reference sensitivity test point analysis for DC\_1A-20A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0595 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222296 | Introduction of reference sensitivity test point analysis for DC\_1A-28A\_n5A | Nokia, Nokia Shanghai Bell | 38.905 | 0596 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223687 | Introduction of reference sensitivity test point analysis for DC\_1A-28A\_n5A | Nokia, Nokia Shanghai Bell | 38.905 | 0596 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222297 | Introduction of reference sensitivity test point analysis for DC\_3A-7A\_n5A | Nokia, Nokia Shanghai Bell | 38.905 | 0597 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223688 | Introduction of reference sensitivity test point analysis for DC\_3A-7A\_n5A | Nokia, Nokia Shanghai Bell | 38.905 | 0597 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222298 | Introduction of reference sensitivity test point analysis for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | 38.905 | 0598 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223689 | Introduction of reference sensitivity test point analysis for DC\_3A-8A\_n28A | Nokia, Nokia Shanghai Bell | 38.905 | 0598 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222299 | Introduction of reference sensitivity test point analysis for DC\_7A-8A\_n3A | Nokia, Nokia Shanghai Bell | 38.905 | 0599 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223690 | Introduction of reference sensitivity test point analysis for DC\_7A-8A\_n3A | Nokia, Nokia Shanghai Bell | 38.905 | 0599 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222300 | Introduction of reference sensitivity test point analysis for DC\_7A-20A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0600 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223691 | Introduction of reference sensitivity test point analysis for DC\_7A-20A\_n8A | Nokia, Nokia Shanghai Bell | 38.905 | 0600 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222301 | Introduction of reference sensitivity test point analysis for DC\_7A-28A\_n5A | Nokia, Nokia Shanghai Bell | 38.905 | 0601 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | revised |
| R5-223692 | Introduction of reference sensitivity test point analysis for DC\_7A-28A\_n5A | Nokia, Nokia Shanghai Bell | 38.905 | 0601 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222420 | Update of R17 Reference Sensitivity test point analysis for FR1 NR CA | China Telecommunications | 38.905 | 0602 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222429 | Test point analysis update for FR1 test case 6.3A.4.1.1 | Keysight Technologies UK Ltd | 38.905 | 0603 | - | Rel-17 | F | NR\_RF\_FR1-UEConTest | agreed |
| R5-222442 | Updating TP analysis for MPR, SEM and ACLR for FR2 | Keysight technologies UK Ltd | 38.905 | 0604 | - | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | revised |
| R5-223867 | Updating TP analysis for MPR, SEM and ACLR for FR2 | Keysight technologies UK Ltd | 38.905 | 0604 | 1 | Rel-17 | F | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | agreed |
| R5-222476 | Addtion of refsence sensitivity test point analysis for FR1 EN-DC | KDDI Corporation | 38.905 | 0605 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | withdrawn |
| R5-222574 | Addition of test analysis for several CA combinations | WE Certification Oy, DISH Network | 38.905 | 0606 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222658 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n41 | Ligado Networks | 38.905 | 0607 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223745 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n41 | Ligado Networks | 38.905 | 0607 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222659 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n48 | Ligado Networks | 38.905 | 0608 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223746 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n48 | Ligado Networks | 38.905 | 0608 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222660 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n77 | Ligado Networks | 38.905 | 0609 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | revised |
| R5-223747 | Tx spurious emission TP analysis for Rel-17 CA\_n24-n77 | Ligado Networks | 38.905 | 0609 | 1 | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222668 | TP analysis for AMPR for Rel-17 CA\_n24-n41 | Ligado Networks | 38.905 | 0610 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | withdrawn |
| R5-222669 | TP analysis for AMPR for Rel-17 CA\_n24-n48 | Ligado Networks | 38.905 | 0611 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | withdrawn |
| R5-222670 | TP analysis for AMPR for Rel-17 CA\_n24-n77 | Ligado Networks | 38.905 | 0612 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | withdrawn |
| R5-222682 | Update of test points analysis for CA\_n1A-n3A refsens test case | China Unicom | 38.905 | 0613 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R17-UEConTest | agreed |
| R5-222733 | Update for 38.521-1\_TPanalysis\_7.3\_RefSense | Qualcomm Israel Ltd. | 38.905 | 0614 | - | Rel-17 | F | NR\_unlic-UEConTest | agreed |
| R5-222734 | Update TpAnalysisSpur\_DC\_14A\_n2A | Qualcomm Israel Ltd. | 38.905 | 0615 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222735 | Update TpAnalysisSpur\_DC\_14A\_n66A | Qualcomm Israel Ltd. | 38.905 | 0616 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-222831 | Addition of test point analysis for 6.2B.1.3\_1 Maximum Output Power | Huawei, HiSilicon | 38.905 | 0617 | - | Rel-17 | F | DC\_Pcmax\_3UL\_CC-UEConTest | agreed |
| R5-222832 | Addition of test point analysis for 6.2B.4.1.3\_1 Configured Output Power | Huawei, HiSilicon | 38.905 | 0618 | - | Rel-17 | F | DC\_Pcmax\_3UL\_CC-UEConTest | revised |
| R5-223771 | Addition of test point analysis for 6.2B.4.1.3\_1 Configured Output Power | Huawei, HiSilicon | 38.905 | 0618 | 1 | Rel-17 | F | DC\_Pcmax\_3UL\_CC-UEConTest | agreed |
| R5-222886 | Update to TP analysis of A-MPR to add ULFPTx | Huawei, HiSilicon | 38.905 | 0619 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222903 | Addition of TP analysis for FR1 RedCap requirements | Huawei, HiSilicon | 38.905 | 0620 | - | Rel-17 | F | NR\_redcap\_plus\_ARCH-UEConTest | agreed |
| R5-222915 | Removing test case 6.5D.1\_1 Occupied bandwidth for UL MIMO (Rel-16 onward) from 38.905 | Ericsson | 38.905 | 0621 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-222927 | Addition of test point analysis for new test case 6.2G.1 | Huawei, HiSilicon | 38.905 | 0622 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222928 | Addition of test point analysis for new test cases 6.2G.2 and 6.5G.2.3.1 | Huawei, HiSilicon | 38.905 | 0623 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-222929 | Addition of test point analysis for new test case 6.2G.3 | Huawei, HiSilicon | 38.905 | 0624 | - | Rel-17 | F | NR\_RF\_TxD-UEConTest | agreed |
| R5-223017 | Update of test point analysis for MPR, SEM and NR ACLR for UL MIMO | Huawei, HiSilicon | 38.905 | 0625 | - | Rel-17 | F | NR\_eMIMO-UEConTest | agreed |
| R5-223050 | Update of test points analysis per CA configuration Table | China Unicom | 38.905 | 0626 | - | Rel-17 | F | NR\_CADC\_NR\_LTE\_DC\_R16-UEConTest | agreed |
| R5-223132 | Updating A-MPR and A-SE TP analysis for NS\_48 | Huawei, Hisilicon | 38.905 | 0627 | - | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | revised |
| R5-223732 | Updating A-MPR and A-SE TP analysis for NS\_48 | Huawei, Hisilicon | 38.905 | 0627 | 1 | Rel-17 | F | NR\_lic\_bands\_BW\_R17-UEConTest | agreed |
| R5-223216 | Update\_TP\_analysis for AMPR NS\_27 | Samsung | 38.905 | 0628 | - | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | revised |
| R5-223696 | Update\_TP\_analysis for AMPR NS\_27 | Samsung | 38.905 | 0628 | 1 | Rel-17 | F | NR\_bands\_BW\_R16-UEConTest | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

8 incoming LSs at RAN5#95-e

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision |
| R5-222064 | 220303 | NGMN Liaison Statement on Definition of the Testing Framework for 5G Device Network Slicing Pre-Commercial Trials | NGNM | noted |
| R5-222065 | R4-2205270 | Reply LS on ambiguity in deciding TL,C | TSG WG RAN4 | noted |
| R5-222066 | R4-2205271 | Response LS to RAN5 on LTE REFSENS Exceptions Simplification | TSG WG RAN4 | noted |
| R5-222067 | R4-2206296 | Further Reply LS on requirement in Power Class 2 for UL MIMO | TSG WG RAN4 | noted |
| R5-222068 | R4-2206526 | LS on time mask for TDM NR Uu-SL intra-band concurrent switching | TSG WG RAN4 | noted |
| R5-222069 | R4-2206567 | Reply LS on configuration of p-MaxEUTRA and p-NR-FR1 | TSG WG RAN4 | noted |
| R5-222070 | R1-2202769 | Reply LS on configuration of p-MaxEUTRA and p-NR-FR1 | TSG WG RAN1 | noted |
| R5-222071 | OTA\_2022\_004\_004 V2 | LS on CTIA Certification OTA Performance Test Plan Version 4.0 Publication | CTIA OTA | noted |

### C2: Outgoing liaison statements

2 outgoing LSs at RAN5#95-e, 2 for email approval

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | status |
| R5-223332 | LS on video call upgrade when preconditions are not used | TSG WG CT1 | - | approved |
| R5-223638 | LS to RAN4 on TT work for NR FR1 TRP TS | TSG WG RAN4, TSG RAN | - | approved |
| R5-223331 | Reply LS on NGMN Testing Framework for 5G Device Network Slicing Pre-Commercial Trials | NGNM | - | for email approval |
| R5-223635 | LS on ModifiedMPRbehaviour clarification for different power classes | TSG RAN WG4 | - | for email approval |

## Annex D: List of agreed/approved new and revised Work Items

21 new WIDs were endorsed at RAN5#94-e, 1 noted, 8 revised WIDs

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| R5-222214 | Revised WID on UE Conformance Test Aspects for NR HST | CMCC | WID revised |
| R5-223073 | Revised WID on UE conformance test aspects for R16 NR mobility enhancements | Huawei, Hisilicon | WID revised |
| R5-223117 | Revised WID on UE Conformance - NR coverage enhancements | China Telecom, Huawei, Hisilicon | WID revised |
| R5-223303 | Revised WID on UE Conformance - High-power UE (power class 1.5) operation in NR bands n77 and n78 | Verizon Switzerland AG | WID revised |
| R5-223304 | Revised WID on UE Conformance Test Aspects - High power UE (power class 2) for NR band n34 | CMCC | WID revised |
| R5-223307 | UE Conformance - Multi-SIM devices for LTE/NR | China Telecom | WID revised |
| R5-223309 | New WID on UE Conformance - NR Sidelink Relay | CATT, China Telecom | WID new |
| R5-223310 | New WID on UE Conformance - NR sidelink enhancement | CATT, Huawei | WID new |
| R5-223311 | New WID on UE Conformance - High power UE (power class 2) for one NR FDD band | China Unicom | WID new |
| R5-223312 | New WID on UE Conformance - 4Rx support for NR band n8 | China Unicom | WID new |
| R5-223313 | New WID on UE Conformance - Enhanced NR support for high speed train scenario for frequency range 1 (FR1) | CMCC | WID new |
| R5-223314 | New WID on Enhanced Industrial Internet of Things (IoT) and ultra-reliable and low latency communication (URLLC) support for NR | Nokia, Nokia Shanghai Bell | WID new |
| R5-223315 | New WID - UE Conformance - enhancement of RAN slicing for NR | CMCC | WID new |
| R5-223316 | New WID on UE Conformance – UE power saving enhancements for NR | MediaTek Inc., Qualcomm | WID new |
| R5-223317 | New WID on UE Conformance - Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC) | Apple Portugal, ROHDE & SCHWARZ, Vivo | WID new |
| R5-223318 | New WID on UE Conformance – NR small data transmissions in INACTIVE state | Qualcomm CDMA Technologies | WID new |
| R5-223319 | New WID on UE Conformance - NR Uplink Data Compression (UDC) | CATT | WID new |
| R5-223320 | New WID on UE Conformance – Enhanced Private Network Support for NG-RAN including CT aspects | China Telecom Corporation Ltd. | WID new |
| R5-223321 | New WID on UE Conformance- Introduction of DL 1024 QAM for NR Frequency Range 1 (FR1) | QUALCOMM Europe Inc. - Italy | WID new |
| R5-223322 | New WID on UE Conformance - Further enhancements on MIMO for NR | Samsung, Huawei, Hisilicon | WID new |
| R5-223323 | New WID on UE Conformance - NR support for high speed train scenario in frequency range 2 (FR2) | Samsung | WID new |
| R5-223324 | New WID on: UE Conformance Test Aspects - Introduction of upper 700MHz A block E-UTRA band for the US (band 103) | Puloli | WID new |
| R5-223325 | New WID on UE Conformance – RF requirements enhancements for NR frequency range 1 (FR1) | Huawei, China Telecom, CMCC, China Unicom | WID new |
| R5-223326 | New WID on UE Conformance - NB-IoT/eMTC support for Non-Terrestrial Networks (NTN) including EPS aspects | MediaTek Inc. | WID new |
| R5-223327 | New WID on UE Conformance – Further enhancement on NR demodulation performance | China Telecom, Qualcomm | WID new |
| R5-223328 | New WID on UE Conformance – Solutions for NR to support non-terrestrial networks (NTN) | QUALCOMM Europe Inc. - Italy | WID new |
| R5-223329 | New WID on UE Conformance – NR RRM Enhancements | Apple Portugal | WID new |
| R5-223356 | New WID for IMS Data Channel test | Huawei, Hisilicon | WID new (only noted) |
| R5-223482 | Revised WID - UE Conformance - Enhancement of data collection for SON and MDT in NR SA and MR-DC | CMCC | WID revised |
| R5-223483 | Revised WID on UE Conformance Test Aspects for NR Positioning Support | CATT | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| R5-222225 | 38.918 | 0.5.0 | draft TR 38.918 v0.5.0 |

## Annex F: List of action items

## SIG:

## Action Points at RAN5#95-e

| Action ID | sWG | Action | Responsible | Relevant Tdoc | Deadline | Status |
| --- | --- | --- | --- | --- | --- | --- |
| AP#95.01 | SIG | Identify and update test cases impacted by FR1/E-UTRA/UTRA OTA environment limitation | R&S, Keysight, Anrtisu, TF160 | R5-220856 | RAN5#96 | Pending |

## Action Points at RAN5#94-e

| Action ID | sWG | Action | Responsible | Relevant Tdoc | Deadline | Status |
| --- | --- | --- | --- | --- | --- | --- |
| AP#94.01 | SIG | Review and update TS 38.523-1 11.4 test cases | MediaTek, TF160, Huawei/Hisilicon, R&S, Qualcomm | R5-220112 | RAN5#95 | Closed  R5-223439 |
| AP#94.02 | SIG | Resolve the issue identified within TS 38.508-1 Table 4.6.3-132 (RadioBearerConfig) for sdap-Config with condition DRBn | TF160 | R5-221420 | RAN5#95 | Closed  R5-222380 |

## Action Points at RAN5#93-e

| Action ID | sWG | Action | Responsible | Relevant Tdoc | Deadline | Status |
| --- | --- | --- | --- | --- | --- | --- |
| AP#93.01 | SIG | Define the cell configuration to overcome the limitation due to lack of FR1/E-UTRA/UTRA calibration in an OTA environment involving FR1/FR2/E-UTRA/UTRA cells in impacted test cases (marked as FFS) | R&S, Keysight, Anrtisu, TF160 |  | RAN5#95 | Closed  R5-220856 |
| AP#93.03 | SIG | Review test cases impacted by FR1/E-UTRA/UTRA OTA environment limitation to make them verifiable based on restricted test purpose approach | R&S | R5-217806 | RAN5#95 | Closed  R5-220856 |

## RF:

## Action Points at RAN5#95-e

| **Action ID** | **sWG** | **Action** | **Responsible** | **Relevant Tdoc** | **Deadline** | **Status** |
| --- | --- | --- | --- | --- | --- | --- |
| AP#95e.21 | RF | Study that statistical distribution of EVM FR2 MU and utilize that to calculate passing rate for a marginal UE | E///, KEYS, R&S, ANR | R5-222340 | RAN5#96 | Open |
| AP#95e.22 | RF | Revisit SNR uncertainty and/or test time based on extra simulation results for 1% residual BLER test cases, FDD 2Rx (5.2.2.1.6/14) | Huawei, E///, Qualcomm, Orange | R5-222891 | RAN5#96 | Open |
| AP#95e.23 | RF | Evaluate the applicability of FDD 2Rx Test SNR uncertainty and test time simulation to Tests in clauses   * TDD 2Rx (5.2.2.2.6/14) * FDD 4Rx (5.2.3.1.6/14) * TDD 4Rx (5.2.3.2.6/14) | Huawei, E///, Qualcomm, Orange | R5-222891 | RAN5#96 | Open |

## Action Points at RAN5#94-e

| **Action ID** | **sWG** | **Action** | **Responsible** | **Relevant Tdoc** | **Deadline** | **Status** |
| --- | --- | --- | --- | --- | --- | --- |
| AP#94e.21 | RF | Determine whether the new NF methodologies is to be considered if the applicable FR2 test requirement relaxations cannot completely be eliminated. | KEYS, R&S, Apple | R5-221260r1  R5-222557  R5-223217 | RAN5#96 | Open |
| AP#94e.22 | RF | whether the origin of the FR2 Additional Tx/Rx spurious emissions (regardless of frequency), is always co-located with the antenna array responsible for the radiation of the in-band | Apple, Qualcomm | R5-221260r1  R5-223040 | RAN5#95 | Closed |

## Action Points at RAN5#90-e

| **Action ID** | **sWG** | **Action** | **Responsible** | **Relevant Tdoc** | **Deadline** | **Status** |
| --- | --- | --- | --- | --- | --- | --- |
| AP#90e.23 | RF | Propose FR2 test procedure update to ensure UE transmit at FR2 UL CA status for UL CA FR2 test cases  FR2\_PCC\_SCC\_Prio | Qualcomm, Oppo, VzW, E///, Anritsu, Apple, Huawei, R&S | R5-211227  R5-212812  R5-212840  R5-213347/8  R5-212919  R5-212963  R5-213092  R5-213323  R5-213324  R5-215632  R5-217652  R5-217716  R5-217717  R5-221349  R5-221348  R5-221347  R5-220889  R5-221250  R5-221346  R5-223030  R5-223031  R5-223032  R5-223033  R5-223278  R5-223300  R5-223600 | RAN5#96e | Open |

## Action Points at RAN5#89-e

| **Action ID** | **sWG** | **Action** | **Responsible** | **Relevant Tdoc** | **Deadline** | **Status** |
| --- | --- | --- | --- | --- | --- | --- |
| AP#89e.23 | RF | Provide input on acceptable clipping frequency due to fading and/or acceptable fading crest factor margin for FR2 Demod performance and CSI test cases Provide input on the impact to TxEVM (and consequently SNR) for higher probabability of saturation of faded signal  FR2\_Demod\_MU | Qualcomm, Anritsu, Keysight, E///, R&S | R5-206168  R5-205702  R5-211083  R5-212961  R5-213335  R5-212030/31/32  R5-215661  R5-214204  R5-214852  R5-214202/3  R5-217653  R5-221163  R5-221164  R5-221249  R5-222589 | RAN5#96e | Open |

## Annex G: List of decisions

|  |  |  |  |
| --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details |

## Annex H: List of participants

178 delegates and officials attended the RAN5#95-e meeting remotely.

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## Annex I: List of future meetings

