**3GPP TSG- Meeting # *R5-253473***

**Malta, Malta, 19th May 2025 - 23rd May 2025**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.521-5** | **CR** | **0092** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | NR NTN - Out of band blocking test - Frequency range update | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Keysight Technologies | | | | | | | | | |
| ***Source to TSG:*** | R5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_NTN\_solutions\_plus\_CT-UEConTest | | | | |  | ***Date:*** | | | 2025-05-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In current out of band blocking NR NTN test case definition, inherited from EUTRA TN tests, the test frequency range is “*One frequency chosen arbitrarily from low or high range*”. Such a freedom makes test executions from different test implementations not comparable. At the same time, considering the frequency of the NTN bands, there is in principle no technical benefit to either the test equipment or the UE on the particular test frequency selected. For all those reasons, it is proposed to simplify the variability of the test selecting abitrarily the Low frequency range. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Selected Low frequency range for testing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Test executions will not be fully comparable while test frequency range is selected arbitrarily by the test implementation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.6.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | R5-252132 is the equivalent CR for IoT NTN. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revision 1:  -WIC corrected. | | | | | | | | |

## <<< START OF CHANGES >>>

#### 7.6.3.4 Test description

##### 7.6.3.4.1 Initial conditions

Initial conditions are a set of test configurations the UE needs to be tested in and the steps for the SS to take with the UE to reach the correct measurement state.

The initial test configurations consist of environmental conditions, test frequencies, channel bandwidths and sub-carrier spacing based on NR operating bands specified in table 5.3.5-1. All of these configurations shall be tested with applicable test parameters for each combination of test channel bandwidth and sub-carrier spacing, and are shown in Table 7.6.3.4.1-1. The details of the uplink and downlink reference measurement channels (RMCs) are specified in TS 38.521-1 [2] clause A.2 and A.3. Configurations of PDSCH and PDCCH before measurement are specified in TS 38.521-1 [2] Annex C.2.

Table 7.6.3.4.1-1: Test Configuration Table for power class 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Default Conditions | | | | | |
| Test Environment as specified in TS 38.508-1 [5] subclause 4.1 | | | Normal | | |
| Test Frequencies as specified in TS 38.508-1 [5] subclause 4.3.1 | | | Low range | | |
| Test Channel Bandwidths as specified in TS 38.508-1 [5] subclause 4.3.1 | | | Lowest, Mid, Highest  Lowest UL / Lowest DL, Lowest UL / Highest DL (NOTE 3) | | |
| Test SCS as specified in TS 38.508-1 [5] subclause 4.3.1 | | | Lowest | | |
| Test Parameters | | | | | |
|  | Downlink Configuration | | | Uplink Configuration | |
| Test ID | Mod'n | RB allocation | | Mod'n | RB allocation |
| 1 | CP-OFDM QPSK | NOTE 1 | | DFT-s-OFDM QPSK | NOTE 1 |
| NOTE 1: The specific configuration of uplink and downlink are defined in Table 7.3.2.4.1-1.  NOTE 2: Void.  NOTE 3: Additional test points selected according to asymmetric channel bandwidths specified in clause 5.3.6. DL channel bandwidth shall be selected first. | | | | | |

## <<< END OF CHANGES >>>