**3GPP TSG- Meeting # *rev***

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
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| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | (NR\_netcon\_repeater-Core)CR for TS 38.106, Correction on requirement for 5MHz channel bandwidth for NCR MT | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | Since the PREFSENS for wanted signal mean power for ACS, in-band blocking, and receiver intermodulation for NCR-MT should be refer to Table 6.16.1.2-1 of TS 38.106 instead of that in TS 38.104 or TS 38.174. For WA NCR-MT type 1-H, ACS, in-band blocking, and receiver intermodulation requirement should be refer to TS38.104 instead of TS 38.174, since 5MHz CBW are not supported in TS38.174. | | | | | | | | |
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| ***Summary of change:*** | | 1) Change ACS, in-band blocking, and receiver intermodulation requirement for WA NCR-MT type 1-H refer to that in TS 38.104 instead of TS 38.174.  2) Add “PREFSENS used for wanted signal mean power in TS 38.104 should use PREFSENS in table 6.16.1.2-1 of TS 38.106”. | | | | | | | | |
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| ***Consequences if not approved:*** | | The ACS, blocking, and receiver intermodulation requirement would be incorrect. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.18.1.2, 6.18.1.3, 6.19.2, 6.19.3, 6.21.2, 6.21.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS38.115-1 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revised from R4-2411130 | | | | | | | | |

## **<Start of Change 1>**

## 6.18 Adjacent channel selectivity for NCR-MT

### 6.18.1 Adjacent Channel Selectivity (ACS)

#### 6.18.1.1 General

Adjacent channel selectivity (ACS) is a measure of the receiver's ability to receive a wanted signal at its assigned channel frequency at the antenna connector for *NCR-MT type 1-C or TAB connector for NCR-MT type 1-H* in the presence of an adjacent channel signal with a specified centre frequency offset of the interfering signal to the band edge of a victim system.

#### 6.18.1.2 Minimum requirement for *NCR-MT type 1-C* and *1-H*

The throughput shall be ≥ 95% of the maximum throughput of the reference measurement channel as specified in annex B.1.5. For Wide Area *NCR-MT type 1-C* and *type 1-H*, the requirement formulation and interferer levels for minimum requirement are the same as specified for Wide Area BS type 1-C and type 1-H in TS 38.104 [2], clause 7.4.1.2. However the PREFSENS used for wanted signal mean power shall not be the same as in TS38.104, but instead shall be the same as PREFSENS in table 6.16.1.2-1 of TS 38.106.

For Local Area *NCR-MT type 1-C* and *type 1-H*, minimum requirement is the same as specified in TS 38.101-1 [13], clause 7.3.2.

#### 6.18.1.3 Void

## **<End of Change 1>**

## **<Start of Change 2>**

## 6.19 Blocking characteristics for NCR-MT

### 6.19.1 General

The in-band blocking characteristics is a measure of the receiver's ability to receive a wanted signal at its assigned channel at the *TAB connector* for *NCR-MT type 1-C* and *NCR-MT type 1-H* in the presence of an unwanted interferer, which is an NR signal for general blocking or an NR signal with one resource block for narrowband blocking.

### 6.19.2 Minimum requirement for NCR-MT type 1-C and 1-H

The throughput shall be ≥ 95% of the maximum throughput of the reference measurement channel as specified in annex B.1.5. For Wide Area *NCR-MT type 1-C* and *type 1-H*, the requirement formulation and interferer levels for minimum requirement are the same as specified for Wide Area BS type 1-C and type 1-H in TS 38.104 [2], clause 7.4.2.2. However the PREFSENS used for wanted signal mean power shall not be the same as in TS38.104, but instead shall be the same as PREFSENS in table 6.16.1.2-1 of TS 38.106.

For Local Area *NCR-MT type 1-C* and *Type 1-H*, minimum requirement is the same as specified in TS 38.101-1 [13] clause 7.6.2.

### 6.19.3 Void

## **<End of Change 2>**

## **<Start of Change 3>**

## 6.21 Receiver intermodulation characteristics for NCR-MT

### 6.21.1 General

Third and higher order mixing of the two interfering RF signals can produce an interfering signal in the band of the desired channel. Intermodulation response rejection is a measure of the capability of the receiver to receive a wanted signal on its assigned channel frequency at the antenna connector for *NCR-MT type 1-C* or TAB connector for *NCR-MT type 1-H* in the presence of two interfering signals which have a specific frequency relationship to the wanted signal.

### 6.21.2 Minimum requirement for NCR-MT type 1-C and 1-H

The throughput shall be ≥ 95% of the maximum throughput of the reference measurement channel as specified in annex B.1.5. For Wide Area *NCR-MT type 1-C* and *type 1-H*, the requirement formulation and interferer levels for minimum requirement are the same as specified for Wide Area *BS type 1-C* and *type 1-H* in TS 38.104 [2], clause 7.7.2. However the PREFSENS used for wanted signal mean power shall not be the same as in TS38.104, but instead shall be the same as PREFSENS in table 6.16.1.2-1 of TS 38.106.

For Local Area *NCR-MT type 1-C* and *Type 1-H*, minimum requirement at antenna connector is the same as specified in TS 38.101-1 [13], clause 7.8.2.

### 6.21.3 Void

## **<End of Change 3>**