**3GPP TSG-RAN WG4 Meeting # 112 *R4-2411834r1***

**Maastricht, Netherlands, August 19 – 23, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.101-1** | **CR** | **2402** | **rev** | **-** | **Current version:** | **18.6.0** |  |
|  |
| *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)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** | ZTE Corporation, Sanechips |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2024-08-05 |
|  |  |  |  |  |
| ***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 canbe 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:*** | The power of unwanted DL signal Puw(CW) is missing for narrow band blocking when channel bandwidth is 3MHz. |
|  |  |
| ***Summary of change:*** | 1. Add Puw(CW) for narrow band blocking when channel bandwidth is 3MHz.
2. Other editorial corrections.
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|  |  |
| ***Consequences if not approved:*** | The Puw(CW) for narrow band blocking will be missing when channel bandwidth is 3MHz.. |
|  |  |
| ***Clauses affected:*** | 7.6.4 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS/TR ... CR ... 38.521-1 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### *<< Start of changes >>*

### 7.6.4 Narrow band blocking

This requirement is measure of a receiver's ability to receive a NR signal at its assigned channel frequency in the presence of an unwanted narrow band CW interferer at a frequency, which is less than the nominal channel spacing.

The relative throughput shall be ≥ 95 % of the maximum throughput of the reference measurement channels as specified in Annexes A.2.2, A.3.2 and A.3.3 (with one sided dynamic OCNG Pattern OP.1 FDD/TDD for the DL-signal as described in Annex A.5.1.1/A.5.2.1) with parameters specified in Table 7.6.4-1. For operating bands with an unpaired DL part (as noted in Table 5.2-1), the requirements only apply for carriers assigned in the paired part.

Table 7.6.4-1: Narrow Band Blocking

|  |  |  |  |
| --- | --- | --- | --- |
| NR band | Parameter | Unit | Channel Bandwidth (MHz) |
|  |  |  | 3 | 5 | 10 | 15 | 20 | 25, 30, 35, 40, 45, 50 | 60, 70, 80, 90, 100 |
| n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n31, n34, n38, n39, n40, n41, n48, n50, n51, n53, n65, n66, n67, n70, n71, n72, n74, n75, n76, n85, n100, n101, n106 | Pw | dBm | PREFSENS + channel-bandwidth specific value below |
|  | dB | 18 | 16 | 13 | 14 | 16 | 16 | 16 |
| Puw (CW) | dBm | -55 |
| Fuw (offset SCS= 15 kHz) 4 | MHz | $$\left(\left⌊\frac{\frac{BW\_{Channel}}{2}+0.2}{SCS}+0.5\right⌋+0.5\right)SCS$$ | $$\left(\left⌊\frac{\frac{BW\_{Channel}}{2}+BW\_{GB,Channel}}{SCS}+0.5\right⌋+0.5\right)SCS$$ | N/A |
| Fuw (offset SCS= 30 kHz)4 | MHz | N/A | $$\left(\left⌊\frac{\frac{BW\_{Channel}}{2}+BW\_{GB,Channel}}{SCS}+0.5\right⌋+0.5\right)SCS$$ |
| NOTE 1: The transmitter shall be set a 4 dB below PCMAX\_L,f,c at the minimum UL configuration specified in Table 7.3.2-3 with PCMAX\_L,f,c defined in clause 6.2.4NOTE 2: Reference measurement channel is specified in Annexes A.3.2 and A.3.3 with one sided dynamic OCNG Pattern OP.1 FDD/TDD as described in Annex A.5.1.1/A.5.2.1.NOTE 3: The PREFSENS power level is specified in Table 7.3.2-1a, Table 7.3.2-1b, Table 7.3.2-2 and Table 7.3.2-2a for two, four and eight antenna ports, respectively.NOTE 4: Fuw shall be rounded to half of SCS.NOTE 5: For SDL bands, requirements shall be applied only for CA band combination cases. |

### *<< End of changes >>*