**3GPP TSG- Meeting # *rev1\_***

**, , -**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | 1 | **Current version:** |  |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  |  |
|  |  |
| ***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 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:*** | RSD requirements are missing for band n85 3MHz CBW. |
|  |  |
| ***Summary of change:*** | Added 3MHz RSD requirements. |
|  |  |
| ***Consequences if not approved:*** | n85 RSD requirements are incomplete. |
|  |  |
| ***Clauses affected:*** | 7.3.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.521-1 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

**---Start of changes---**

7.3.2 Reference sensitivity power level

The throughput shall be ≥ 95 % of the maximum throughput of the reference measurement channels as specified in Annexes A.2.2.2, A3.2 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 7.3.2-1a, Table 7.3.2-1b, Table 7.3.2-1c, Table 7.3.2-1d , Table 7.3.2-2 and Table 7.3.2-2a .

**---Unchanged sections are skipped---**

For power class 2 UEs, certain degradation of the reference sensitivity in Table 7.3.2-1a is allowed. The maximum amount of degradation is specified in Table 7.3.2-1c, and in Table 7.3.2-1d for a UE that indicates *txDiversity-r16* or *txDiversity2Tx-r18* [15].

**Table 7.3.2-1c Reference Sensitivity Degradation from PC3 to PC2 for FDD bands for UE not supporting Tx Diversity**

| **Operating Band** | **3****MHz(dB)** | **5****MHz(dB)** | **10****MHz(dB)** | **15****MHz(dB)** | **20****MHz(dB)** | **25****MHz(dB)** | **30 MHz (dB)** | **35 MHz (dB)** | **40****MHz(dB)** | **45 MHz (dB)** | **50****MHz(dB)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| n1 |  | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 |
| n2 |  | 0.8 | 0.9 | 1.1 | 1.2 | 1.3 | 2.7 | 2.8 | 3.5 |  |  |
| n3 |  | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.8 | 1.1 | 1.5 | 2.3 | 2.8 |
| n7 |  | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |  | 2.0 |
| n8 |  | 0.5 | 0.7 | 0.8 | 2.3 | 2.8 | 3.2 | 3.1 |  |  |  |
| n13 |  | 0.8 | 0.9 |  |  |  |  |  |  |  |  |
| n14 |  | 0.6 | 0.8 |  |  |  |  |  |  |  |  |
| n25 |  | 0.8 | 0.8 | 0.9 | 1.1 | 1.3 | 2.7 | 2.8 | 3.5 | 3.7 |  |
| n66 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| n71 |  | 0.5 | 0.9 | 0.9 | 2.2 | 2.422.53 | 2.522.43 | 2.92 3.13 |  |  |  |
| n70 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
| n85 | 0.6 | 0.6 | 1.0 | 2.6 |  |  |  |  |  |  |  |
| NOTE 1: The transmitter shall be set to PUMAX as defined in clause 6.2.4NOTE 2: Applies to UEs that support a maximum uplink BW of 20 MHz in this band.NOTE 3: Applies to UEs that support optional symmetric UL/DL for this BW. |

**Table 7.3.2-1d Reference Sensitivity Degradation from PC3 to PC2** **for** **FDD bands for UE** **supporting Tx Diversity**

| **Operating Band** | **3****MHz(dB)** | **5****MHz(dB)** | **10****MHz(dB)** | **15****MHz(dB)** | **20****MHz(dB)** | **25****MHz(dB)** | **30 MHz (dB)** | **35 MHz (dB)** | **40****MHz(dB)** | **45 MHz (dB)** | **50****MHz(dB)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| n1 |  | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 |
| n2 |  | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 5.8 | 6.0 | 6.5 |  |  |
| n3 |  | 1.4 | 1.5 | 1.5 | 1.5 | 1.6 | 1.7 | 2.8 | 5 | 5.5 | 6.0 |
| n7 |  | 0.9 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 |  | 5.3 |
| n8 |  | 1.3 | 1.4 | 2.1 | 5.8 | 6.1 | 6.5 | 7.0 |  |  |  |
| n13 |  | 1.2 | 1.3 |  |  |  |  |  |  |  |  |
| n14 |  | 1.1 | 1.3 |  |  |  |  |  |  |  |  |
| n25 |  | 1.5 | 1.5 | 1.6 | 1.6 | 1.7 | 6.0 | 6.2 | 6.7 | 7.1 |  |
| n66 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| n71 |  | 1.1 | 1.1 | 1.7 | 5.5 | 5.92 6.93 | 6.22 7.23 | 6.52 7.33 |  |  |  |
| n70 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
| n85 | 1.2 | 1.2 | 1.4 | 6.4 |  |  |  |  |  |  |  |
| NOTE 1: The transmitter shall be set to PUMAX as defined in clause 6.2G.4NOTE 2: Applies to UEs that support a maximum uplink BW of 20 MHz in this band.NOTE 3: Applies to UEs that support optional symmetric UL/DL for this BW. |

**--End of changes---**