**3GPP TSG-RAN WG4 Meeting # 99-e *R4-210xxxx***

**Electronic Meeting, 19 – 27 May 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.104** | **CR** | **0308** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  |
| *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 |  | Radio Access Network | **X** | Core Network |  |

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|  |
| ***Title:***  | CR to TS 38.104: Additional of FCC emission limits on US 3.45-3.55 GHz band |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_RF\_FR1-Core |  | ***Date:*** | 2021-05-24 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | FCC emission limits in US 3.45-3.55 GHz band are not specified for Band n77. |
|  |  |
| ***Summary of change:*** | Specify the FCC emission limits in US 3.45-3.55 GHz band as additional regional operating band unwanted emissions requirements for Band n77. |
|  |  |
| ***Consequences if not approved:*** | Band n77 cannot be used to cover US 3.45-3.55 GHz band. |
|  |  |
| ***Clauses affected:*** | New clause 6.6.4.2.5.6 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.141-1 CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revised from R4-2109393 to change ‘authorized block edges’ to ‘channel edges’ in the note. |

**<New clause>**

6.6.4.2.5.6 Additional operating band unwanted emissions limits for Band n77

The following requirement may apply to BS operating in 3.45-3.55 GHz in Band n77 in certain regions. Emissions shall not exceed the maximum levels specified in table 6.6.4.2.5.6-1.

**Table 6.6.4.2.5.6-1: Additional operating band unwanted emission limits for Band n77**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Channel bandwidth [MHz]** | **Frequency range [MHz]** | **Filter centre frequency, Ffilter [MHz]** | **Minimum requirement [dBm]** | ***Measurement bandwidth* [MHz]** | **Note** |
| All | 3440 – 3560 | 3440.5 ≤ Ffilter < 3559.5 | -13 | 1 | Applicable from the *channel edges* |
| All | 3430 – 34403560 – 3570 | 3430.5 ≤ Ffilter < 3439.53560.5 ≤ Ffilter < 3569.5 | -25 | 1 |  |
| All | ≤ 3430> 3570 | Ffilter < 3429.53570.5 ≤ Ffilter | -40 | 1 |  |

NOTE: The resolution bandwidth of the measuring equipment should be equal to the *measurement bandwidth*. However, to improve measurement accuracy, sensitivity and efficiency, the resolution bandwidth may be smaller than the *measurement bandwidth*. When the resolution bandwidth is smaller than the *measurement bandwidth*, the result should be integrated over the *measurement bandwidth* in order to obtain the equivalent noise bandwidth of the *measurement bandwidth*.

**<End of change>**