3GPP TSG-RAN WG4 Meeting # 100-e Draft R4-2115665

**Electronic Meeting, August. 16-27, 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.113** | **CR** |  | **rev** |  | **Current version:** | **15.14.0** |  |
|  |
| *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 38.113 on Spatial Exclusion description, Release 15 |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core |  | ***Date:*** | 2021-08-16 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-15 |
|  | *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)* |
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| ***Reason for change:*** | Clarification in the definition of spatial exclusion. |
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| ***Summary of change:*** | This Cat. F updates the definition of spatial exclusion for Release 15. |
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| ***Consequences if not approved:*** | Lack of clarity in the definition of spatial exclusion migh lead to wrong testing procedures.  |
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| ***Clauses affected:*** |  9.2.2 |
|  |  |
|  | **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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

------------------------------ Start of new section ------------------------------

### 9.2.2 Test method and level

The test method shall be in accordance with IEC 61000‑4‑3 [18], which specified test methodology based on anechoic chamber. The use of reverberation chamber test method according to IEC 61000-4-21 [29], clause 6.1 and Annex D as alternative method is allowed.

For transmitters, receivers and transceivers the following requirements shall apply:

- The test level shall be 3 V/m amplitude modulated to a depth of 80 % by a sinusoidal audio signal of 1 kHz;

- The stepped frequency increments shall be 1 % of the momentary frequency;

- The test shall be performed over the frequency range 80 MHz - 6000 MHz; with the exception of the exclusion band for receivers (see clause 4.4);

- Responses in stand-alone receivers or receivers which are part of transceivers occurring at discrete frequencies which are narrow band responses, shall be disregarded, see clause 4.3;

- The frequencies selected during the test shall be recorded in the test report.

- For the test method in accordance with IEC 61000-4-3[18], the *spatial exclusion zone* can be chosen to protect the base station receiver. For the frequency arrange above 690 MHz (according to the test method in ETSI EN 301 489-50 [28]), the EMC RF electromagnetic field immunity requirement applies on the non-radiating faces of the *BS type 1-O* and *BS type 2-O*. In other cases, to protect the *BS type 1-O* and *BS type 2-O*, exclusion band sizes as depicted in Table 4.4.2-1 shall be considered.



Figure 9.2.2-1: EMC RF electromagnetic field immunity requirement testing directions for *BS type 1-O* and *BS type 2-O* (horizontal plane depicted) with the *spatial exclusion zone* applied

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