**3GPP TSG-RAN WG4 Meeting #104-e  R4-221zzzz**

**E-meeting, 15th – 26th May 2022**

**Source:** Nokia, Nokia Shanghai Bell

**Title:** WF on BS requirements for APT 600 MHz

**Agenda Item:** 10.19.4

**Document for:** Approval

# Introduction

During RAN4#104-e, documents [1] and [2] were discussed on the expected changes to 38.104 due to introduction of APT 600 MHz band.

# Way forward

The following 38.104 changes are agreed due to introduction of APT 600 MHz band:

6.6.4.2.1 *Basic limits* for Wide Area BS (Category A)

For BS operating in Bands n5, n8, n12, n13, n14, n18, n26, n28, n29, n71, n85, APT 600 MHz, *basic limits* are specified in table 6.6.4.2.1‑1.

6.6.5.2.3 Additional spurious emissions requirements

| System type for NR to co-exist with | Frequency range for co-existence requirement | *Basic limits* | *Measurement bandwidth* | Note |
| --- | --- | --- | --- | --- |
| E-UTRA Band 71 or  NR Band n71 | 617 – 652 MHz | -52 dBm | 1 MHz | This requirement does not apply to BS operating in band n71 or APT 600 MHz |
| 663 – 698 MHz | -49 dBm | 1 MHz | This requirement does not apply to BS operating in band n71 or APT 600 MHz, since it is already covered by the requirement in clause 6.6.5.2.2. |
| APT 600 MHz | 612 – 652 MHz | -52 dBm | 1 MHz | This requirement does not apply to BS operating in band n71 or APT 600 MHz. |
| 663 – 703 MHz | -49 dBm | 1 MHz | This requirement does not apply to BS operating in band APT 600 MHz, since it is already covered by the requirement in clause 6.6.5.2.2. |

6.6.5.2.4 Co-location with other base stations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type of co-located BS | Frequency range for | *Basic limits* | | | Measurement | Note |
|  | co-location requirement | WA BS | MR BS | LA BS | bandwidth |  |
| APT 600 MHz | 663 – 703 MHz | -96 dBm | -91 dBm | -88 dBm | 100 kHz |  |

The following 38.104 change is to be discussed and concluded during RAN4#104-bis-e:

6.6.4.2.2.1 Category B requirements (Option 1)

For BS operating in Bands n5, n8, n12, n20, n26, n28, n29, n67, n71, n85, APT 600 MHz, the *basic limits* are specified in table 6.6.4.2.2.1-1:

# References

[1] R4-2213582; BS requirements for APT 600 MHz band; Nokia, Nokia Shanghai Bell; RAN4#104-e

[2] R4-2213680; Discussion on BS RF requirements for APT600MHz; ZTE; RAN4#104-e