**3GPP TSG-RAN5 Meeting #91-e Draft\_R5-213803**

**Electronic Meeting, 17th May – 27th May 2021**

**Title: Response to LS on band dependent parameters** **for the FR2 demodulation setup**

**Response to:**

**Release:** Release 17

**Work Item:** FR2\_enhTestMethods

**Source:** TSG RAN WG5

**To:** TSG RAN WG4

**Cc:**

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** None

**1. Overall Description:**

RAN5 thanks RAN4 for the LS on band dependent parameters for the FR2 demodulations setup.

RAN5 would like to provide the following responses to the questions raised in the RAN4 LS.

**Question 1: Can RAN5 share any comments regarding the preliminary assessment of the demodulation test setup SNR calculation parameters in Table 1?**

Please note that RAN5 has agreed to:

* Calculate achievable SNR for each frequency range: FR2a/FR2b/FR2c
* Include Fading Crest factor margin in computation of achievable SNR.
* Apply the highest Noc level among the bands of the respective frequency range for that frequency range for calculation of achievable SNR
* Use backoff from P1dB of 17.71 dB as working assumption
* For IFF and QZ=30cm, use 1 meter range length and 0.75 dB for MBR

**Question 2: Can RAN5 share any updates related to FR2b, so that these can be applied to the SNR calculations for n262?**

Please note that RAN5 has agreed to

* Assume maximum testable SNRBB of [7.3 dB] for FR2b (up to 40 GHz) under fading conditions as per the parameter values defined in TR 38.810
* In general, consider the faded signal (signal after channel emulation) crest factor for computing the achievable SNR in FR2 system

Any deviation from TR 38.810- values for backoff from P1dB and probe antenna gain, specific to FR2b, are pending discussion in RAN5

**2. Actions to RAN4 group.**

None

**3. Date of Next TSG-RAN WG5 Meetings:**

TSG-RAN5 Meeting#92 16th – 27th Aug 2021 Electronic Meeting

TSG-RAN5 Meeting#93 8th – 19th Nov 2021 Electronic Meeting

**4. Appendix**

Table 1 included in the RAN4 LS, and referenced in the questions, is included below

Table 1: Proposed demodulation test setup SNR calculation parameters for band n262

|  |  |  |
| --- | --- | --- |
| Parameter | Value | Comment |
| REFSENS | -82.8 dBm/50 MHz | Using REFSENS agreed for band n262 |
| Multi-band relaxation | 1.0 dB | Defined as ceil(.); change from 2.0 dB |
| FS path loss | -63.2 dB | Change from -62.3 dB (scaling from 43.5 to 48.2 GHz) |
| Cable loss | -8.7 dB | Additional 0.33 dB/m in cable loss at 48.2 GHz |
| Probe antenna gain | [12.0] dB | Needs checking |
| Backoff from P1dB | [13.0] dB | Needs checking |