**3GPP TSG-RAN WG4 Meeting #97-e *R4-2017430***

**Electronic Meeting, 2 – 13 November, 2020**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **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)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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|  |
| ***Title:***  | CR to 37.105 on Removal of additional limit for Band 1 |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | An LS from ETSI TFES explains that the additional limit for operation in Band 1 (2110 – 2170 MHz downlink), providing a “slope” in the region 5-10 MHz outside the operating band, can be removed. The additional limit is not part of the ECC or EC regulation for operation in the bands 1920-1980 MHz and 2110-2170 MHz. This view has been confirmed through an LS exchange with ECC PT1. The limit was removed from the ETSI Harmonised Standard EN 301 908. |
|  |  |
| ***Summary of change:*** | The additional limit for Band 1 and 7 is removed from the specification. |
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| ***Consequences if not approved:*** | The specification would not be aligned with European regulation. |
|  |  |
| ***Clauses affected:*** | 2, 9.7.5.2.4.4, 9.7.6.3.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** | **X** |  |  Test specifications | TS 37.145-1, TS 37.145-2 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | R1: The version-specific references to 3GPP specs are changed to refer to the latest available version, with TS 37.104 pointing at the coming v15.2.0, in order to make the reference to a version where the band 1 limit is removed.In 9.7.6.3.3, the additional limit is now removed for both Band I and VII. |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 25.104: "Base Station (BS) radio transmission and reception (FDD)".

[3] 3GPP TS 25.105: "Base Station (BS) radio transmission and reception (TDD)".

[4] 3GPP TS 36.104: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception".

[5] 3GPP TS 37.104: "NR, E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception".

[6] 3GPP TS 25.104 (V15.5.0): "Base Station (BS) radio transmission and reception (FDD) (Release 14)".

[7] 3GPP TS 25.105 (V15.0.0): "Base Station (BS) radio transmission and reception (TDD) (Release 14)".

[8] 3GPP TS 36.104 (V15.9.0): "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception (Release 14)".

[9] 3GPP TS 37.104 (V15.12.0): "E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (Release 14)".

[10] 3GPP TS 25.142 (V15.0.1): "Base Station (BS) conformance testing (TDD) (Release 14)".

[11] Recommendation ITU-R M.1545: "Measurement uncertainty as it applies to test limits for the terrestrial component of International Mobile Telecommunications-2000".

[12] 3GPP TS 25.942: "Radio Frequency (RF) system scenarios".

[13] Void

[14] Recommendation ITU-R SM.329-10: "Unwanted emissions in the spurious domain".

[15] "Title 47 of the Code of Federal Regulations (CFR)", Federal Communications Commission.

[16] 3GPP TS 25.331 (V14.3.0): "Radio Resource Control (RRC); Protocol specification (Release 14)".

[17] Recommendation ITU-R SM.328-11: "Spectra and bandwidth of emissions".

[18] FCC publication number 662911: "Emissions Testing of Transmitters with Multiple Outputs in the Same Band".

[19] 3GPP TS 37.141: "NR, E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) conformance testing".

[20] 3GPP TS 36.141: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing".

[21] IEC 60721-3-3: "Classification of environmental conditions - Part 3-3: Classification of groups of environmental parameters and their severities - Stationary use at weather protected locations".

[22] IEC 60721-3-4: "Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 4: Stationary use at non-weather protected locations".

[23] ETSI EN 300 019-1-3: "Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 1-3: Classification of environmental conditions; Stationary use at weather protected locations".

[24] ETSI EN 300 019-1-4: "Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 1-4: Classification of environmental conditions; Stationary use at non-weather protected locations".

[25] CEPT ECC Decision (13)03, "The harmonised use of the frequency band 1452-1492 MHz for Mobile/Fixed Communications Networks Supplemental Downlink (MFCN SDL)".

[26] 3GPP TS 45.004: "Digital cellular telecommunications system (Phase 2+); Modulation".

[27] 3GPP TS 38.104: "NR; Base Station (BS) radio transmission and reception"

[28] 3GPP TS 38.104 (V15.1.0): "NR; Base Station (BS) radio transmission and reception (Release 15)"

[29] 3GPP TS 37.145-1: "Active Antenna System (AAS) Base Station (BS) conformance testing; Part 1: Conducted conformance testing"

[30] 3GPP TS 37.145-2: "Active Antenna System (AAS) Base Station (BS) conformance testing; Part 2: radiated conformance testing"

[31] 3GPP TS 36.211: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation"

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of change\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next changed section\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

###### 9.7.5.2.4.4 Voidf

Table 9.7.5.2.4.4-1: Void

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of change\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next changed section\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 9.7.6.3.3 Additional spurious emissions requirements

The TRP of any spurious emission shall not exceed the limits of table 9.7.6.3.3-1 for a AAS BS where requirements for co-existence with the system listed in the first column apply. For a *multi-band RIB*, the exclusions and conditions in the notes column of table 9.7.6.3.3-1 apply for each supported operating band.

Table 9.7.6.3.3-1 *OTA AAS BS* Spurious emissions limits for UTRA FDD BS in geographic coverage area of systems operating in other frequency bands

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| System type operating in the same geographical area | Band for co-existence requirement | Maximum Level | Measurement Bandwidth | Notes |
| GSM900 | 921 ‑ 960 MHz | -51 dBm | 100 kHz | This requirement does not apply to UTRA FDD operating in band VIII |
| 876 - 915 MHz | -55 dBm | 100 kHz | For the frequency range 880-915 MHz, this requirement does not apply to UTRA FDD operating in band VIII, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| DCS1800 | 1805 ‑ 1880 MHz | -41 dBm | 100 kHz | This requirement does not apply to UTRA FDD operating in band III |
| 1710 - 1785 MHz | -55 dBm | 100 kHz | This requirement does not apply to UTRA FDD operating in band III, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| PCS1900 | 1930 ‑ 1990 MHz | -41 dBm | 100 kHz | This requirement does not apply to UTRA FDD BS operating in frequency band II or band XXV |
| 1850 ‑ 1910 MHz | -55 dBm | 100 kHz | This requirement does not apply to UTRA FDD BS operating in frequency band II or band XXV, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| GSM850 or CDMA850 | 869 - 894 MHz | -51 dBm | 100 kHz | This requirement does not apply to UTRA FDD BS operating in frequency band V or XXVI |
| 824 ‑ 849 MHz | -55 dBm | 100 kHz | This requirement does not apply to UTRA FDD BS operating in frequency band V or XXVI, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band I or E-UTRA Band 1 or NR band n1 | 2110 - 2170 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band I,  |
| 1920 - 1980 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band I, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band II or E-UTRA Band 2 or NR band n2 | 1930 - 1990 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band II or band XXV |
| 1850 - 1910 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band II or band XXV, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band III or E-UTRA Band 3 or NR band n3 | 1805 - 1880 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band III or band IX |
| 1710 - 1785 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band III, since it is already covered by the requirement in subclause 9.7.6.3.2. For UTRA BS operating in band IX, it applies for 1710 MHz to 1749.9 MHz and 1784.9 MHz to 1785 MHz, while the rest is covered in subclause 9.7.6.3.2. |
| UTRA FDD Band IV or E-UTRA Band 4 | 2110 - 2155 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band IV or band X |
| 1710 - 1755 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band IV or band X, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band V or E-UTRA Band 5 or NR band n5 | 869 - 894 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band V or XXVI |
| 824 - 849 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band V or XXVI, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band VI or XIX, E-UTRA Band 6, 18 or 19 | 860 - 890 MHz  | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band VI or XIX |
| 815 - 845 MHz  | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band VI or XIX, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band VII or E-UTRA Band 7 or NR band n7 | 2620 - 2690 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band VII,  |
| 2500 - 2570 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band VII, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band VIII or E-UTRA Band 8 or NR band n8 | 925 - 960 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band VIII. |
| 880 - 915 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band VIII, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band IX or E-UTRA Band 9 | 1844.9 - 1879.9 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band III or band IX |
| 1749.9 - 1784.9 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band III or band IX, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band X or E-UTRA Band 10 | 2110 - 2170 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band IV or band X. |
| 1710 - 1770 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band X, since it is already covered by the requirement in subclause 9.7.6.3.2. For UTRA FDD BS operating in Band IV, it applies for 1755 MHz to 1770 MHz, while the rest is covered in subclause 9.7.6.3.2. |
| UTRA FDD Band XI or XXI or E-UTRA Band 11 or 21 | 1475.9 - 1510.9 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XI , XXI or XXXII. |
| 1427.9 - 1447.9 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XI, since it is already covered by the requirement in subclause 9.7.6.3.2. For UTRA BS operating in band XXXII, this requirement applies for carriers allocated within 1475.9MHz and 1495.9MHz. |
| 1447.9 - 1462.9 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XXI, since it is already covered by the requirement in subclause 9.7.6.3.2. For UTRA BS operating in band XXXII, this requirement applies for carriers allocated within 1475.9MHz and 1495.9MHz. |
| UTRA FDD Band XII or E-UTRA Band 12 or NR band n12 | 729 - 746 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XII |
| 699 - 716 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XII, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band XIII or E-UTRA Band 13 | 746 - 756 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XIII |
| 777 - 787 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XIII, since it is already covered by the requirement in sub-clause 9.7.6.3.2. |
| UTRA FDD Band XIV or E-UTRA Band 14 | 758 - 768 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XIV |
| 788 - 798 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XIV, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| E-UTRA Band 17 | 734 - 746 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XII |
| 704 - 716 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XII, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band XX or E-UTRA Band 20 or NR band n20 | 791 - 821 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XX |
| 832 - 862 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XX, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| UTRA FDD Band XXII or E-UTRA Band 22 | 3510 -3590 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XXII. |
| 3410 -3490 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XXII, since it is already covered by the requirement in subclause 9.7.6.3.2. |
| E-UTRA Band 24 | 1525 – 1559 MHz | -46 dBm | 1 MHz |  |
| 1626.5 – 1660.5 MHz | -43 dBm | 1 MHz |  |
| UTRA FDD Band XXV or E-UTRA Band 25 or NR band n25 | 1930 - 1995 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band II or band XXV |
| 1850 - 1915 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XXV, since it is already covered by the requirement in subclause 9.7.6.3.2. For UTRA FDD BS operating in Band II, it applies for 1910 MHz to 1915 MHz, while the rest is covered in sub-clause 9.7.6.3.2. |
| UTRA FDD Band XXVI or E-UTRA Band 26 | 859-894 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band V or band XXVI |
| 814-849 MHz | -43 dBm | 1 MHz | This requirement does not apply to UTRA FDD BS operating in band XXVI, since it is already covered by the requirements in subclause 9.7.6.3.2 For UTRA FDD BS operating in band V, it applies for 814MHz to 824MHz, while the rest is covered in subclause 9.7.6.3.2 |
| E-UTRA Band 27 | 852 – 869 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA BS operating in Band V or XXVI. |
| 807 – 824 MHz | -43 dBm | 1 MHz | For UTRA BS operating in Band XXVI, it applies for 807 MHz to 814 MHz, while the rest is covered in subclause 9.7.6.3.2.  |
| E-UTRA Band 28 or NR band n28 | 758 – 803 MHz | -46 dBm | 1 MHz |  |
| 703 – 748 MHz | -43 dBm | 1 MHz |  |
| E-UTRA Band 29 | 717 – 728 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 30 | 2350 - 2360 MHz | -46 dBm | 1 MHz |  |
| 2305 - 2315 MHz | -43 dBm | 1 MHz |  |
| E-UTRA Band 31 | 462.5 -467.5 MHz | -46 dBm | 1 MHz |  |
| 452.5 -457.5 MHz | -43 dBm | 1 MHz |  |
| UTRA FDD Band XXXII or E-UTRA Band 32 | 1452 – 1496 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA BS operating in Band XI, XXI, or XXXII |
| UTRA TDD Band a) or E-UTRA Band 33 | 1900 – 1920 MHz | -46 dBm | 1 MHz |  |
| UTRA TDD Band a) or E-UTRA Band 34 or NR band n34 | 2010 – 2025 MHz | -46 dBm | 1 MHz |  |
| UTRA TDD Band b) or E-UTRA Band 35 | 1850 – 1910 MHz | -46 dBm | 1 MHz |  |
| UTRA TDD Band b) or E-UTRA Band 36 | 1930 – 1990 MHz | -46 dBm | 1 MHz |  |
| UTRA TDD Band c) or E-UTRA Band 37 | 1910 – 1930 MHz | -46 dBm | 1 MHz |  |
| UTRA TDD Band d) or E-UTRA Band 38 or NR band n38 | 2570 – 2620 MHz | -46 dBm | 1 MHz |  |
| UTRA TDD Band f) or E-UTRA Band 39 or NR band n39 | 1880 – 1920 MHz | -46 dBm | 1 MHz | Applicable in China |
| UTRA TDD in Band e) or E-UTRA Band 40 or NR band n40 | 2300 – 2400 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 41 or NR band n41 | 2496 - 2690 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 42 | 3400 – 3600 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 43 | 3600 – 3800 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 44 | 703 - 803 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 45 | 1447 - 1467 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 46 | 5150 - 5925 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 47 | 5855 - 5925 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 48 | 3550 – 3700 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 49 | 3550 – 3700 MHz | -52 dBm | 1 MHz |  |
| E-UTRA Band 50 or NR band n50  | 1432 – 1517 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 51 or NR Band n51 | 1427 – 1432 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 52 | 3300 – 3400 MHz | -52 dBm | 1 MHz |  |
| E-UTRA Band 65 | 2110 - 2200 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA BS operating in band I,  |
| 1920 - 2010 MHz | -43 dBm | 1 MHz | For UTRA BS operating in Band I, it applies for 1980 MHz to 2010 MHz, while the rest is covered in subclause 9.7.6.3.2 |
| E-UTRA Band 66 or NR band n66 | 2110 - 2200 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA BS operating in band IV or X . |
| 1710 - 1780 MHz | -43 dBm | 1 MHz | For UTRA BS operating in Band IV, this requirement applies for 1755 MHz to 1780 MHz, while the rest is covered in subclause 9.7.6.3.2. For UTRA BS operating in Band X, this requirement applies for 1770 MHz to 1780 MHz, while the rest is covered in subclause 9.7.6.3.2. |
| E-UTRA Band 67 | 738 - 758 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 68 | 753 -783 MHz | -46 dBm | 1 MHz |  |
| 698-728 MHz | -43 dBm | 1 MHz |  |
| E-UTRA Band 69 | 2570 - 2620 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 70 or NR band n70 | 1995 – 2020 MHz | -46 dBm | 1 MHz | This requirement does not apply to UTRA BS operating in band II or XXV. |
| 1695 – 1710 MHz | -43 dBm | 1 MHz |  |
| E-UTRA Band 71 | 617 - 652 MHz | -52 dBm | 1 MHz |  |
| 663 – 698 MHz | -49 dBm | 1 MHz |  |
| E-UTRA Band 72 | 461 - 466 MHz | -52 dBm | 1 MHz |  |
| 451 - 456 MHz | -49 dBm | 1 MHz |  |
| E-UTRA Band 73 | 460 - 465 MHz | -52 dBm | 1 MHz |  |
| 450 - 455 MHz | -49 dBm | 1 MHz |  |
| E-UTRA Band 74 or NR Band n74 | 1475 – 1518 MHz | -46 dBm | 1 MHz |  |
| 1427 – 1470 MHz | -43 dBm | 1MHz | This requirement does not apply to UTRA FDD BS operating in band XI, XXI or XXXII. |
| E-UTRA Band 75 or NR Band n75 | 1432 - 1517 MHz | -46 dBm | 1 MHz |  |
| E-UTRA Band 76 or NR Band n76 | 1427 - 1432 MHz | -46 dBm | 1 MHz |  |
| NR Band n77 | 3300 MHz – 4200 MHz | -46 dBm | 1 MHz |  |
| NR Band n78 | 3300 MHz – 3800 MHz | -46 dBm | 1 MHz |  |
| NR Band n79 | 4.4 – 5.0 GHz | -46 dBm | 1 MHz |  |
| NR Band n80 | 1710 – 1785 MHz | -43 dBm | 1 MHz |  |
| NR Band n81 | 880 – 915 MHz | -43 dBm | 1 MHz |  |
| NR Band n82 | 832 – 862 MHz | -43 dBm | 1 MHz |  |
| NR Band n83 | 703 – 748 MHz | -43 dBm | 1 MHz |  |
| NR Band n84 | 1920 – 1980 MHz | -43 dBm | 1 MHz |  |
| E-UTRA Band 85 | 728 - 746 MHz | -46 dBm | 1 MHz |  |
| 698 - 716 MHz | -43 dBm | 1 MHz |  |
| NR Band n86 | 1710 – 1780 MHz | -43 dBm | 1 MHz |  |
| NOTE 1: The co-existence requirements do not apply for the 10 MHz frequency range immediately outside the *downlink operating band* (see subclause 9.7.1). Emission limits for this excluded frequency range may be covered by local or regional requirements.NOTE 2: The table above assumes that two operating bands, where the frequency ranges would be overlapping, are not deployed in the same geographical area. For such a case of operation with overlapping frequency arrangements in the same geographical area, special co-existence requirements may apply that are not covered by the 3GPP specifications.  |

The following requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA FDD are deployed. This requirement is also applicable at specified frequencies falling between 12.5MHz below the first carrier frequency used and 12.5MHz above the last carrier frequency used.

The TRP of any spurious emission shall not exceed:

Table 9.7.6.3.3-2: AAS BS OTA Spurious emissions limits for BS in geographic coverage area of PHS

|  |  |  |  |
| --- | --- | --- | --- |
| Band | Maximum Level | Measurement Bandwidth | Notes |
| 1884.5 ‑ 1915.7 MHz | -35 dBm | 300 kHz |  |

Table 9.7.6.3.3-3: Void

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NOTE: This requirement for the frequency range 2610-2615 MHz may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.

The following requirement shall be applied to AAS BS operating in Bands XIII and XIV to ensure that appropriate interference protection is provided to 700 MHz public safety operations. This requirement is also applicable at specified frequencies falling between 12.5 MHz below the first carrier frequency used and 12.5 MHz above the last carrier frequency used.

The TRP of any spurious emission shall not exceed:

Table 9.7.6.3.3-4: AAS BS OTA Spurious emissions limits

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Operating Band | Band | Maximum Level | Measurement Bandwidth | Notes |
| XIII | 763 - 775 MHz | -40 dBm | 6.25 kHz |  |
| XIII | 793 - 805 MHz | -40 dBm | 6.25 kHz |  |
| XIV | 769 - 775 MHz | -40 dBm | 6.25 kHz |  |
| XIV | 799 - 805 MHz | -40 dBm | 6.25 kHz |  |

The following requirement shall be applied to AAS BS operating in Bands XXVI to ensure that appropriate interference protection is provided to 800 MHz public safety operations. This requirement is also applicable at specified frequencies falling between 12.5 MHz below the first carrier frequency used and 12.5 MHz above the last carrier frequency used.

The TRP of any spurious emission shall not exceed:

Table 9.7.6.3.3-5: AAS BS OTA Spurious emissions limits

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Operating Band | Band | Maximum Level | Measurement Bandwidth | Notes |
| XXVI | 851 - 859 MHz | -7 dBm | 100 kHz | Applicable for offsets > 37.5kHz from the channel edge |