

**TYPE ACCEPTANCE CRITERIA FOR  
5G NEW RADIO BASE STATION EQUIPMENT  
OPERATING IN THE 24.25 – 28.35 GHz BAND**



## 1. SCOPE

This document sets out the criteria for type acceptance of 5G New Radio (“NR”) base station equipment operating in spectrum in the 24.25 – 28.35 GHz band (hereafter referred to as “the equipment”).

## 2. OPERATING FREQUENCIES

The frequency bands for the equipment are as follows -

| <b>Downlink<br/>(Base Station Transmit)</b> | <b>Uplink<br/>(Base Station Receive)</b> |
|---|--|
| 24.25 – 28.35 GHz                           | 24.25 – 28.35 GHz                        |

## 3. TECHNICAL REQUIREMENTS

The equipment shall meet the technical requirements as stipulated in the latest version of specification TS 38.141-2 titled “3rd Generation Partnership Project; Technical Specification Group RAN; NR; Base Station (BS) Conformance Testing, Part 2: Radiated Conformance Testing (Release 15)” published by the Third Generation Partnership Project (3GPP) in respect of the following:

### Transmitter

| <i>Item</i> | <i>Radiated Transmitter Characteristics</i>  | <i>Relevant Clause in 3GPP TS 38.141-2</i>   |
|-------------|--|--|
| (i)         | Radiated transmit power                      | Clause 6.2   |
| (ii)        | Over the Air (OTA) base station output power | Clause 6.3   |
| (iii)       | OTA unwanted emissions                       | Clause 6.7 excluding Clause 6.7.2 on OTA occupied bandwidth and Clause 6.7.5.5 on co-location requirements |

### Receiver

| <i>Item</i> | <i>Radiated Receiver Characteristics</i> | <i>Relevant Clause in 3GPP TS 38.141-2</i>                        |
|-------------|--|---|
| (i)         | OTA in-band selectivity and blocking     | Clause 7.5  |
| (ii)        | OTA out-of-band blocking                 | Clause 7.6 excluding Clause 7.6.5.1.2 on co-location requirements |
| (iii)       | OTA receiver spurious emissions          | Clause 7.7  |
| (iv)        | OTA receiver intermodulation             | Clause 7.8  |

#### **4. EVALUATION METHOD**

Compliance of the equipment with the technical requirements shall be evaluated in accordance with the procedures specified in the corresponding 3GPP specification as given in clause 3 above.

#### **5. REFERENCE**

3GPP TS 38.104 - Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Base Station (BS) radio transmission and reception (Release 15)

3GPP TS 38.141-2 – Third Generation Partnership Project; Technical Specification Group RAN; NR; Base Station (BS) conformance testing, Part 2: Radiated conformance testing (Release 15)

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