**3GPP TSG-RAN WG4 Meeting #** **116 R4-2511726**

Bengaluru, India, August 25th – 29th, 2025

**Title:**  draft TP for TS 38.194 to introduce transmitter intermodulation

Source: CATT

Agenda item: 7.22.3.1

Document for: Approval

# Introduction

This contribution provides a draft TP to TS 38.194 for A-IoT BS Tx requirements. The agreements of Tx requirements in the WF [2] are included in the TP.

# Reference

[1] TS 38.194, V0.1.0

[2] R4-2508101, “WF on A-IoT BS and CW requirements”, Huawei, RAN4#115

# TP for TS 38.194

6.7 Transmitter intermodulation

6.7.1 General

The transmitter intermodulation requirement is a measure of the capability of the transmitter unit to inhibit the generation of signals in its non-linear elements caused by presence of the wanted signal and an interfering signal reaching the transmitter unit via the antenna. The requirement shall apply during the *transmitter ON period* and the *transmitter transient period*.

For *A-IoT* *BS type 1-C*, the transmitter intermodulation level is the power of the intermodulation products when an interfering signal is injected into the *antenna connector*.

For *A-IoT BS type 1-C*, the co-location transmitter intermodulation requirement is not needed.