3GPP TSG-RAN WG4 Meeting # 95-e R4-2008779

Electronic Meeting, 25 May – 5 June, 2020

Title: TP for TR 38.809: IAB-MT transmitted signal quality

Source: CATT

Agenda item: 6.5.2.1.3

Document for: Approval

# Introduction

This contribution provides TP for TR 38.809 based on the RAN4 discussion and agreements. The detail of the background is captured in the discussion paper [1].

# Reference

[1] R4-2006276, “Discussion on IAB-MT modulation quality requirements”, CATT

[2] R4-2005489, “WF for IAB-MT frequency error requirement”, CATT

# Annex: TP for IAB TR

*<First part>*

## 7.5 Transmitted signal quality

### 7.5.2 IAB-MT transmitted signal quality

Transmitted signal quality includes frequency error and transmit modulation requirements. For frequency error, IAB-MT should follow parent node’s center frequency which is the same behavior as UE therefore IAB-MT frequency error requirement is defined as relative requirement as +/-0.1 PPM relative to received signal from parent which is the same as UE requirements. With the above analysis, IAB-MT frequency error follows UE requirements.

*<Next part>*

## 9.6 OTA transmitted signal quality

### 9.6.2 IAB-MT OTA transmitted signal quality

The analysis of IAB-MT OTA transmitted signal quality requirement is the same as the conducted requirements in 7.5.2. Therefore IAB-MT OTA frequency error follows UE requirements.

*<End of the TP>*