3GPP TSG-RAN WG4 Meeting # 95-e R4-2008780

Electronic Meeting, 25 May – 5 June, 2020

Title: TP for TS 38.174: IAB-MT transmitted signal quality

Source: CATT

Agenda item: 6.5.2.1.3

Document for: Approval

# Introduction

This contribution provides TP for TS 38.174, the discussion background is in the contribution [1]. This TP includes the frequency error part of transmitted signal quality. The EVM part will be added when more study and discussion is done.

# Reference

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

[2] R4-2006277, “TP for TR 38.809: IAB-MT transmitted signal quality”, CATT

[3] R4-2004801, TS 38.174 v0.0.1

# Annex: TP for IAB TS

*<First part>*

## 6.5 Transmitted signal quality

#### 6.5.1.2 IAB-MT frequency error

The IAB-MT basic measurement interval of modulated carrier frequency is 1 UL slot. The mean value of basic measurements of IAB-MT modulated carrier frequency shall be accurate to within ± 0.1 PPM observed over a period of 1 ms of cumulated measurement intervals compared to the carrier frequency received from the parent node.

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## 9.6 OTA transmitted signal quality

#### 9.6.1.2 IAB-MT OTA frequency error

The IAB-MT basic measurement interval of modulated carrier frequency is 1 UL slot. The mean value of basic measurements of UE modulated carrier frequency shall be accurate to within ± 0.1 PPM observed over a period of 1 msec of cumulated measurement intevals compared to the carrier frequency received from the parent node.

The frequency error is defined as a directional requirement. The requirement is verified in beam locked mode with the test metric of Frequency (Link=TX beam peak direction, Meas=Link angle).

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*<End of the TP>*