IEEE P802.11
Wireless LANs

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| Proposed Draft Text (PDT-PHY): Frequency Tolerance |
| Date: 2020-11-05 |
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Abstract

This submission proposed modifications on modulation accuracy of TGbe D0.1 to resolve TBDs.

This document is based on TGbe D0.1 and following motions.

802.11be defines only PPDU with contiguous signal bandwidth, including 20 MHz, 40 MHz, 80 MHz, 160 MHz, and 320 MHz.

* NOTE – Noncontiguous 80+80 MHz and 160+160 MHz are not defined.

[Motion 137, #SP288, [3] and [4]]

Transmit center frequency and the symbol clock frequency for all transmit antennas and frequency segments shall be derived from the same reference oscillator. The symbol clock frequency and transmit center frequency tolerance shall be ±20 ppm in the 5 GHz and 6 GHz bands and ±25 ppm in the 2.4 GHz band. EHT TB PPDU format is subject to additional requirements as defined in 36.3.14 (Non-HT duplicate transmission)

[Motion 140]

Proposed Changes:

*TGbe Editor: Modify text in 36.3.18.3 (*Transmit center frequency and symbol clock frequency tolerance*):*

* Transmit center frequency and symbol clock frequency tolerance

Transmit center frequency and the symbol clock frequency for all transmit antennas and frequency segments shall be derived from the same reference oscillator. The symbol clock frequency and transmit center frequency tolerance shall be ±20 ppm in the 5 GHz and 6 GHz bands and ±25  ppm in the 2.4 GHz band. EHT TB PPDU format is subject to additional requirements as defined in 36.3.14 (Non-HT duplicate transmission).

* Per the authors of 20/1792r0, the following 2 paragraphs are TBD.

Transmit signals with TXVECTOR parameter CH\_BANDWIDTH set to CBW320 may be generated using two separate RF LOs, one for each of the lower and upper 160 MHz frequency portions.

NOTE 2—The signal phase of the two 160 MHz frequency portions might not be correlated.

***End of proposed changes.***