### **IEEE P802.11Wireless LANs**

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| CR on TX LO Comment |
| Date: 2019-05-09 |
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**Abstract**

The document provides a comment resolution for CID 2111.

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| **CID** | **Clause** | **Page/Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2111 | 31.2.12.1 | 106/39 | Specification of maximum TX LO leakage level is said to be specified in section 21.3.17.4.2. This section states: When the RF LO is in the center of the transmitted PPDU BW, the power measured at the center oftransmission BW using resolution BW 312.5 kHz shall not exceed the average power per-subcarrierof the transmitted PPDU [...]. However it is not clear which subcarrier is meant here. Is it1. the 11a LSIG or MARK sub carrier level?2. The subcarrier level in the sync field (6 tones present)?3. The subcarrier level in the payload (6 or 12 tones present, depending on data rate)?4. Another subcarrrier level (for example what is the subcarrier level in MC-OOK?) | Specify which subcarrier level is meant to limit the TX LO leakage. I suggest to use the 11a LSIG subcarrier level. Also, add text in section 21.3.17.4.2 saying that the table is not restricted to VHT formats, but includes WUR formats as well. Add column(s) for various WUR modes, or, if applicable, specify which of the current column apply to WUR.Change explanatory text above table 21-5 to say that the table is not limited to VHT formats, but also includes WUR formats. Alternatively, add a new WUR specific table, either to section 21.3.6 in the 802.11 standard or to section 21.3.17.4.2 in the 802.11ba amendment. | **Revised**TGba Editor makes changes as shown in 802.11-19/0782r2 |

**Discussion**

Current TX LO leakage level specification is incomplete, since it is defined with respect to the average power per sub-carrier of an OFDM tone without stating which tone is being referred to.

**Proposed Resolution**

This addresses CID: 2111

TGba Editor: Make the following Editing Instructions on page 114 line 34 of D2.1.

Change the text:

NOTE 3—For rules regarding TX center frequency leakage levels, see 21.3.17.4.2 (Transmit center frequency leakage). The spectral mask requirements in this subclause do not apply to the RF LO.

Into:

NOTE 3—For rules regarding TX center frequency leakage levels, the power measured at the center of transmission BW using resolution BW 312.5 kHz shall not exceed $P-17.5$, where $P$ is the transmit power per antenna in dBm during transmission of the LSIG field.