IEEE P802.11  
Wireless LANs

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| Resolution for CID 7157 | | | | |
| Date: 2024-04-26 | | | | |
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This submission includes the proposed resolution for CID 7157 on P802.11-REVme D5.0.

##### Revision history:

##### R0 – initial version

**CID: 7157**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 7157 | 25.6.9.2.1 | 4022 | 7 | "When using the OFDM mode and only while transmitting OFDM symbols, Ei with i equal to –70 to –2 and +2 to +70 shall not deviate by more than ± 2 dB from Eavg. And Ei with i equal to –71 to –89 and +70 to +89 shall not deviate by more than +2/–4 dB from Eavg." -- it is not clear why +70 is counted twice. This needs to be checked with an SME because the next subclause follows a different pattern | Change to "When using the OFDM mode and only while transmitting OFDM symbols, Ei with i equal to –70 to –2 and +2 to +70 shall not deviate by more than ± 2 dB from Eavg. And Ei with i equal to –71 to –89 and +71 to +89 shall not deviate by more than +2/–4 dB from Eavg.". In the next subclause change "+145" to "+146" | REVISED  Agree with the commentor on the proposed changes of the incorrect subcarrier indices.  In addition, this resolution further suggests to correct the range of averging subcarrier indices for calculation of E\_avg for 1080 MHz channel.  TGm editor: Please revise the text in *25.6.9.2.1 TX flatness for 540 MHz channel and 25.6.9.2.2 TX flatness for 1080 MHz channel in P802.11-REVme D5.0* as suggested in 11-24/0746r0. |

*TGm Editor: please revise the text in 25.6.9.2.1 TX flatness for 540 MHz channel and 25.6.9.2.2 TX flatness for 1080 MHz channel in P802.11-REVme D5.0 as following.*

**25.6.9.2.1 TX flatness for 540 MHz channel**

(#6209)Let *Ei* denote the constellation energy averaged over OFDM symbols for the subcarrier with index *i*,

*Eavg* denote *Ei* averaged over *i* equal to –70 to –2 and +2 to +70. When using the OFDM mode and only

while transmitting OFDM symbols, *Ei* with *i* equal to –70 to –2 and +2 to +70 shall not deviate by more than

± 2 dB from *Eavg*. And *Ei* with *i* equal to –71 to –89 and +71 to +89 shall not deviate by more than +2/–4 dB

from *Eavg*.

**25.6.9.2.2 TX flatness for 1080 MHz channel**

(#6209)Let *Ei* denote the constellation energy averaged over OFDM symbols for the subcarrier with index *i*,

*Eavg* denote *Ei* averaged over *i* equal to –146 to –2 and +2 to +146. When using the OFDM mode and only

while transmitting OFDM symbols, *Ei* with *i* equal to –146 to –2 and +2 to +146 shall not deviate by more

than ± 2 dB from *Eavg*. And *Ei* with *i* equal to –147 to –177 and +147 to +177 shall not deviate by more than

+2/–4 dB from *Eavg*.

***Discussion:***

As specified in 25.6.9.2.1, the indices of subcarriers considered for calculation of E\_avg for 540 MHz channel are within [-70:-2, +2:+70], which are a subset of total subcarriers located in [-89, +89] while the indices of subcarriers considered for calculation of E\_avg for 1080 MHz channel are over the full number of subcarriers in [-177:-2, +2:+177] as shown in 25.6.9.2.2.

Table 28-46 specifies the maximum transmit spectral flatness deviations in EDMG, in which the averaging subcarrier indices for calculation are a subset of the total subcarrier indices, e.g., for the case that in **TXVECTOR parameter CH\_BANDWIDTH (CHANNEL\_AGGREGATION =(#4167)NOT\_AGGREGATED)** One bit set to 1 (which is the case of the bandwidth of 2160 MHz) (the second row in Table 28-46), the range of averaging subcarrier incices are in [-146:-2, 2:146] while the tested subcarrier indices are over the full number of subcarriers which are in [-146:-2, 2:146] and [-177:-147, 147:177].

To be consistent for the standard, the range of averaging subcarrier indices in 25.6.9.2.2 is modified as: “Let *Ei* denote the constellation energy averaged over OFDM symbols for the subcarrier with index *i*,

*Eavg* denote *Ei* averaged over *i* equal to –146 to –2 and +2 to +146.”

