

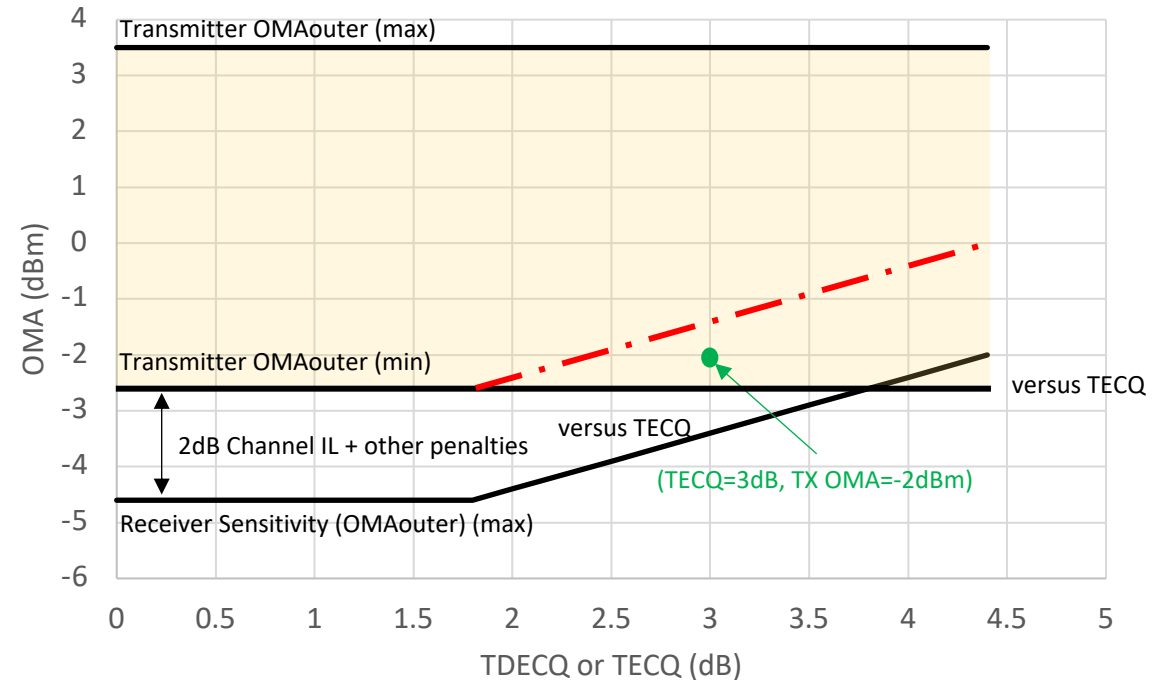
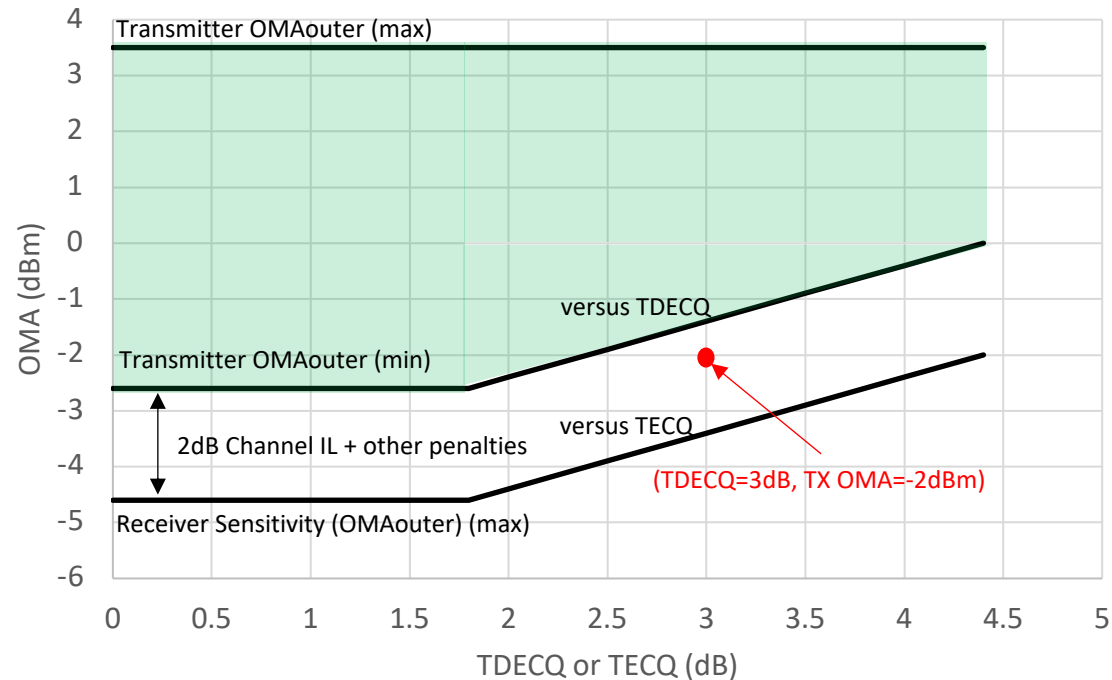
Minimum TX Launch Power in OMA Shall Be Constrained by TECQ

(In support of comment #11)

Yi Tang, Cisco

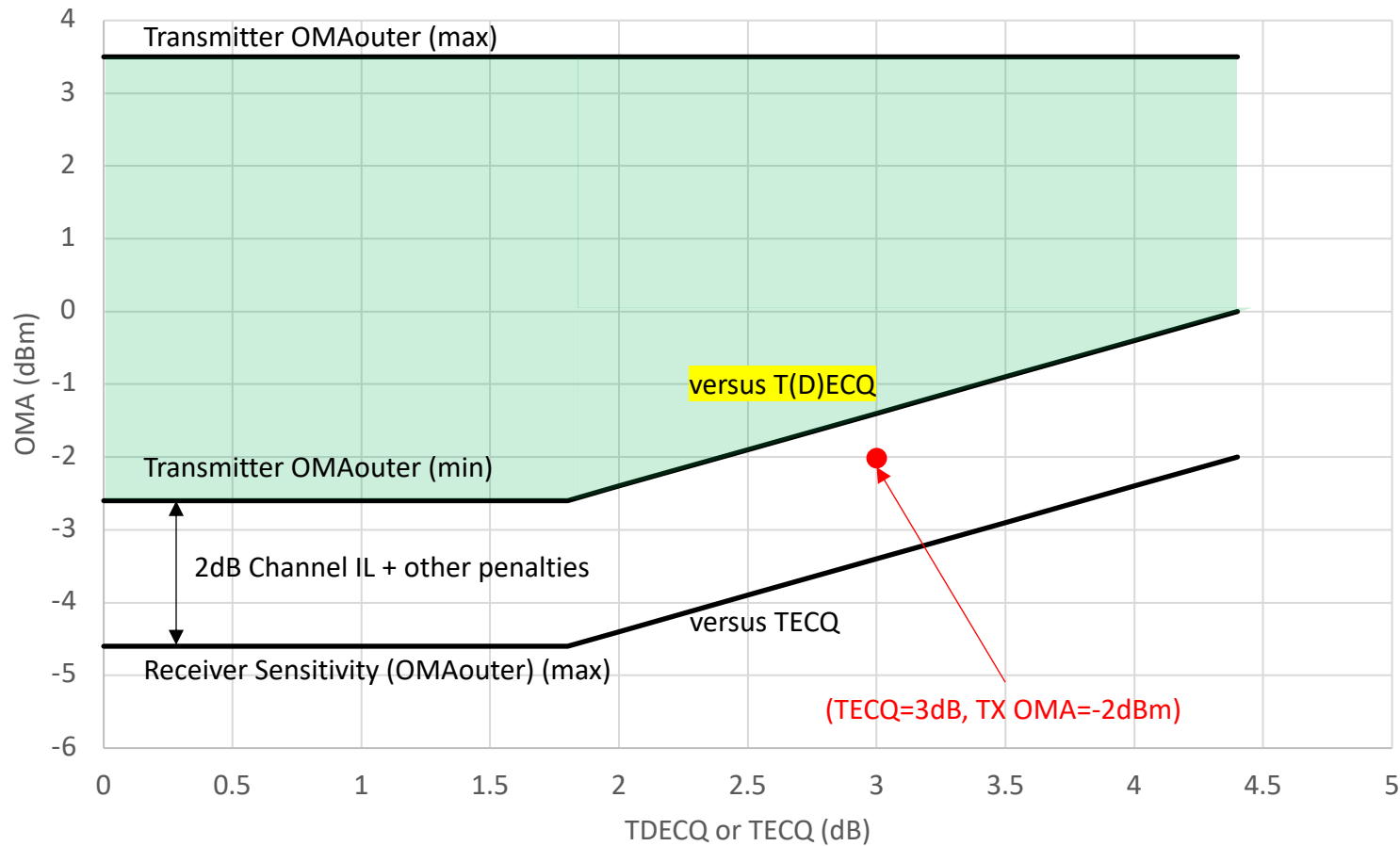
IEEE P802.3dB TF Interim Meeting, 07/19/2021

Interoperability Issue Posed by the Current Spec Gap



- Current spec allows transmitter to operate at min OMA despite of TECQ value – diagram on the right.
- With TX pre-distortion, TECQ can be higher than 1.8dB and even worse than TDECQ.
- Majority of 2dB channel loss budget comes from connectors loss and apply to non-fiber/short fiber applications.
- Receiver sensitivity spec doesn't require receiver to accept low power signals with high TECQ.

Proposed Change



- Constrain transmitter OMA by both TECQ and TDECQ to guarantee that transmitters operate in the green region.