



September 22, 2016

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RE: Comments of June 23, 2016
APPLICATION: Applied Micro Design, Inc.
FCC ID: 2AES2-1456FFDPA-800

Preface: The certification requested was for a 800MHz band amplifier that would be placed in a booster system made by a 3rd party. With that in mind the testing was performed as strictly an amplifier with an RF input and an RF output, which is why each amplifier will have its own ID. The A/D and D/A converters (fiber) was NOT tested as part of this system (this system only accepted RF). Only the amplifier rack which included a two 700MHz RF amplifiers, two 800 MHz amplifiers and 2 duplexors controlled via a support admin laptop.

Testing was performed to the Amplifier guidance. Some consideration was given to the front-end system for things like proposed channelization of the system due to the A/D converters (this system only accepted RF)



d. The plots on pp.48 and 52 show an emission at 860.19 MHz; and

WLL: This is a quirk of the testing procedure. The out of band rejection test is used to determine the highest point by sweeping the amp. As you can see from figure 3 the amp extends slightly past 860MHz with 860.19 being the peak. In actual use the amp would be limited to 860MHz the D/A converters.

10. The plots on pp.17 and 18 of the EMC report show that the EUT's passband (approximately 10 MHz wide for full amplification) is wider than the authorized band (769-775 MHz). Please explain how the EUT prevents re-transmission of input signals that are not contained within the authorized band, but are still within the EUT's passband

WLL: The specifications for this system state that the amplifier will be integrated into a system that has a channelized A/D to D/A system in place preventing any non-authorized transmissions on the RF input side.