September 22, 2016

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American Telecommunications Certification Body Inc.
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RE: Comments of June 16, 2016
APPLICATION: Applied Micro Design, Inc.
FCC ID: 2AES2-1456FFDPA-700

Preface: The certification requested was for a 700MHz 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)

b. Regarding compliance with Section 90.219(e)(4)(i), Section 4.7.1 of the EMC report states that the EUT "does not alter or influence the signal". How is it ensured that the conversion process from RF to light, and then back to RF, does not influence the frequency of the signal and its frequency stability? Please clarify.

WLL: The amplifier rack certified does not have a fiber input, only RF. As such the amplifier being certified has no translational circuitry and is exempt from frequency stability per 935210 D05sect 3.7.

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.