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Interface Practices Subcommittee

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**Standardized Loading for Reverse-Path
Bit Error Ratio Testing**

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Document Type: Specification

Document Tags:

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1. Introduction

1.1. Executive Summary

This document defines the channel plans to be used when testing reverse path upstream bit error ratio.

1.2. Scope

This document provides details on channel loading bandwidth and modulation specifics for pre/post bit error ratio (BER) measurements. This document is intended to be used in conjunction with ANSI/SCTE 132, "Test Method for Reverse Path (Upstream) Bit Error Ratio." This document does not detail the procedure to measure BER nor the test methodology. This document is intended for measurement of 75-ohm devices having type "F" or 5/8-24 KS connectors. See the Cable Telecommunications Testing Guidelines document, ANSI/SCTE 96, for a discussion of proper testing techniques.

For bit error ratio measurements in the forward path see ANSI/SCTE 121.

1.3. Benefits

By creating a standardized channel loading plan along with modulation specifications, this document provides a standard means of testing, along with ANSI/SCTE 132, to measure upstream bit error ratio between various types of RF products.

1.4. Intended Audience

The intended audience is any engineer or technician who is responsible for testing reverse path (upstream) bit error ratio.

1.5. Areas for Further Investigation or to be Added in Future Versions

Additional DOCSIS 3.1 OFDMA channel plans may be added along with a possible mixture of DOCSIS 3.0 and 3.1 channel loading.

2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

2.1. SCTE References

- No normative references are applicable.

2.2. Standards from Other Organizations

- No normative references are applicable.