

# SAS-2 Delivered Amplitude Calibration for Receiver Testing

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## 

# Goals

- Present measured Transmit Waveform Calibration signals at CT after a SAS-2 compliance channel based on various patterns
- Review methods for calibration
- Propose a pattern to measure signal amplitude at the receiver
- Propose an amplitude spec at the receiver
- References:

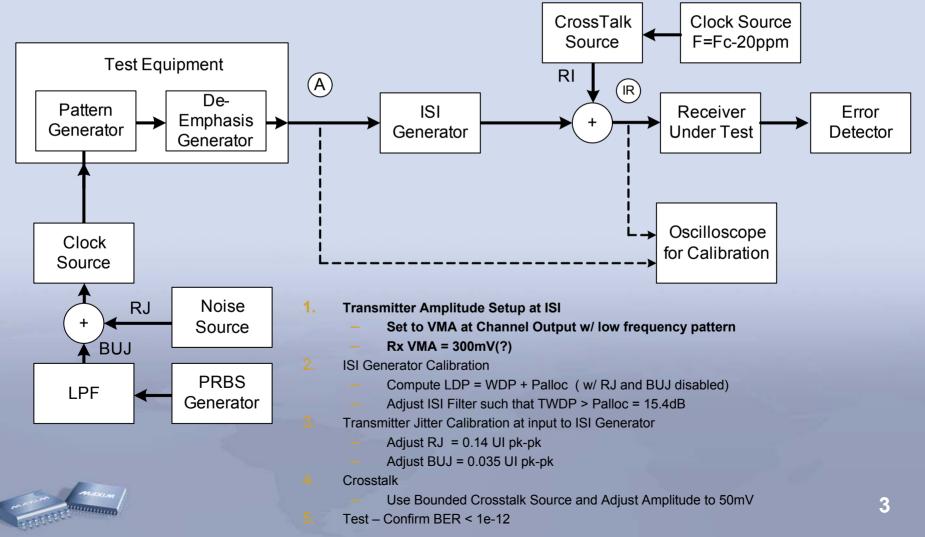
T10/07-380r1 Comprehensive Stressed Receiver Sensitivity Test (Kevin Witt) T10/07-365r0 Enhanced WDP for 6G SAS (Mike Jenkins)





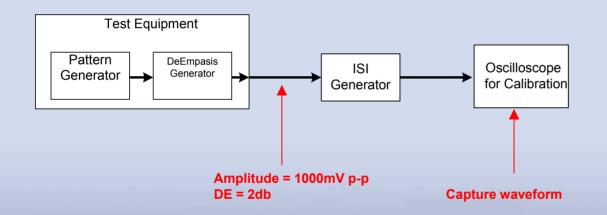
### Background

 We are focused on Step one of the Receiver Comprehensive Sensitivity Test



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## **Transmit Waveform Calibration setup**

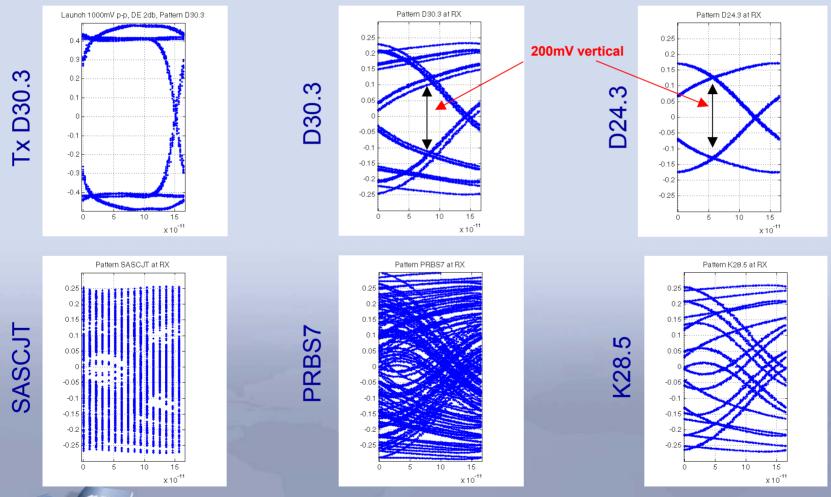








#### Launch amplitude 1000mV p-p 2db De-Emphasis

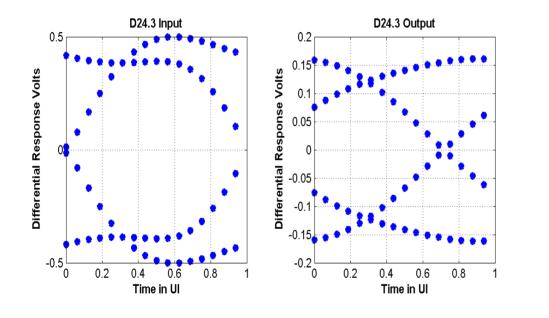


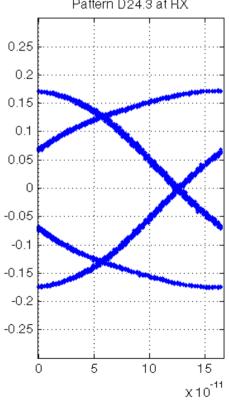


#### Good Match to Reference Channel

Simulated D24.3 Response

Measured D24.3 Response
Pattern D24.3 at RX
0.25

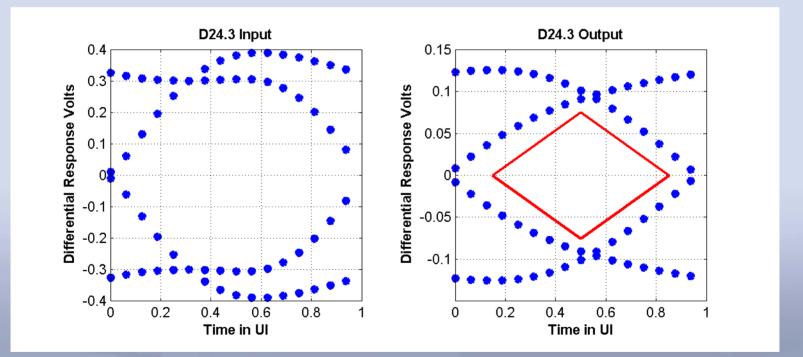




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- Standard Eye Opening Measurement per section 5.3.5.1
  - 150mV, 0.7 UI eye opening with D24.3







## **Proposal/Discussion**

- Use a D24.3 pattern for an delivered signal calibration
- Standard Eye Opening Measurement at CT, IT
  - Z1= 0.075
  - X1 = 0.15

