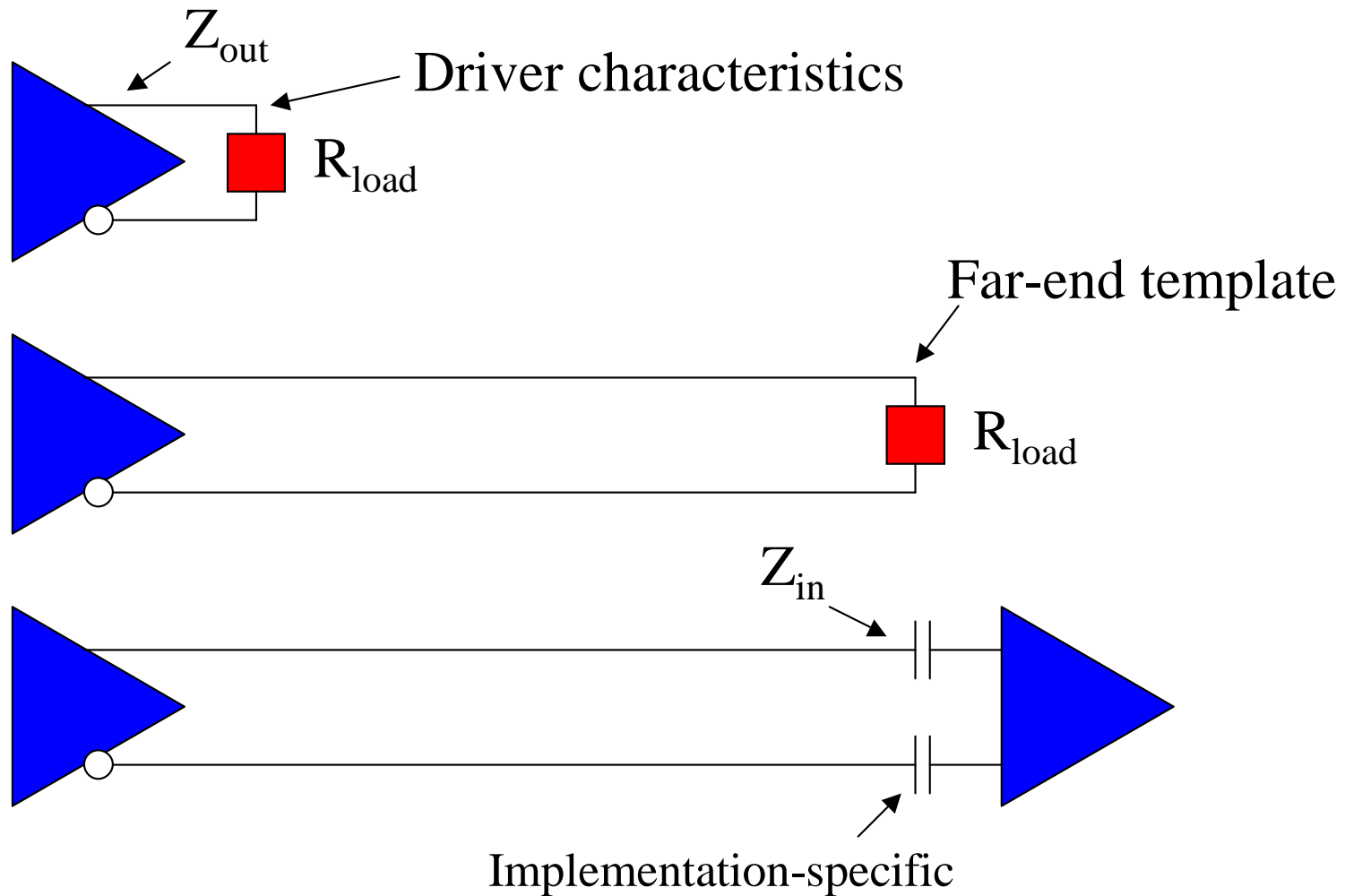




XAUI Compliance Channel

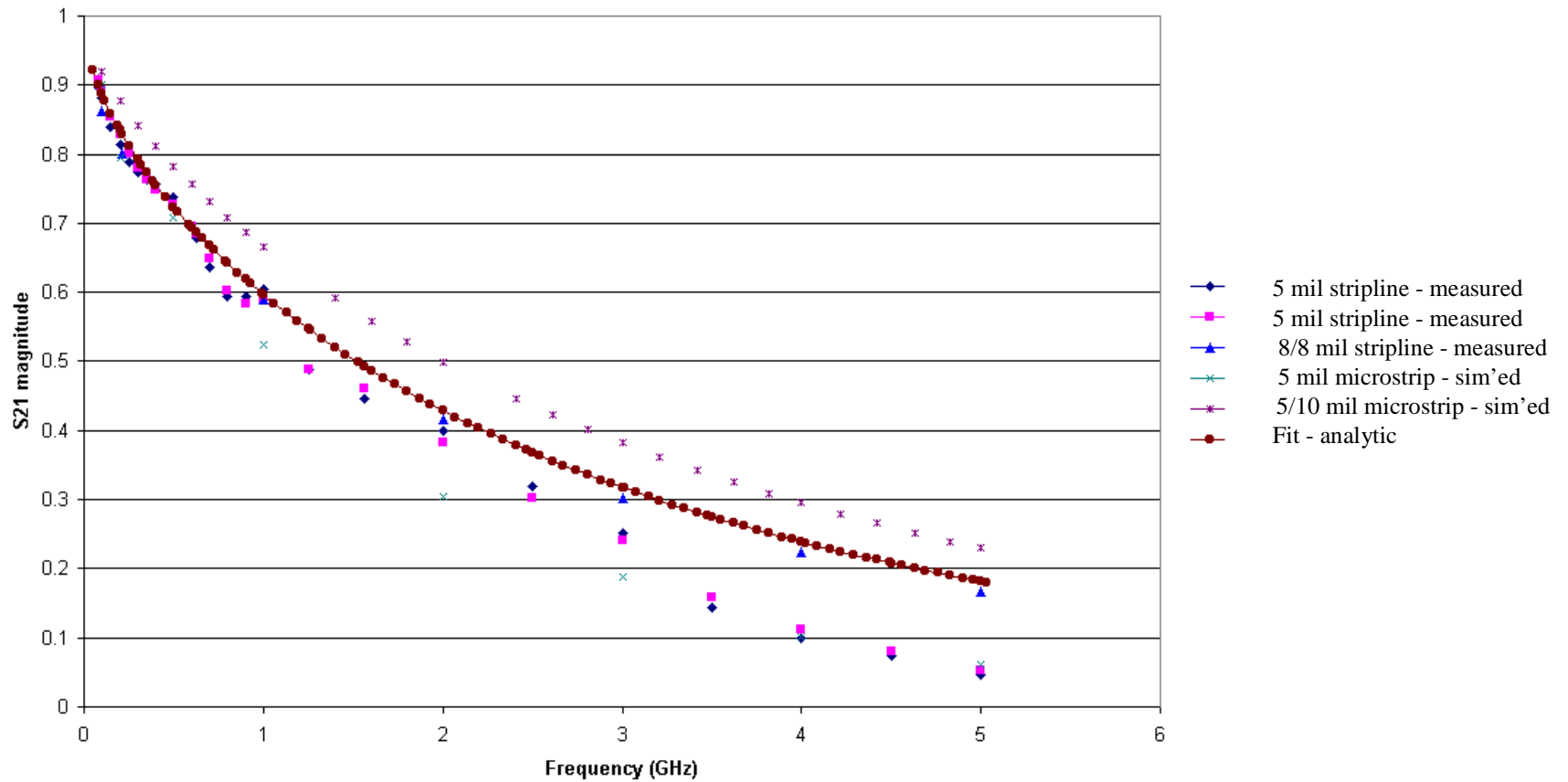
- Measurement data
- Specification method

Compliance Points

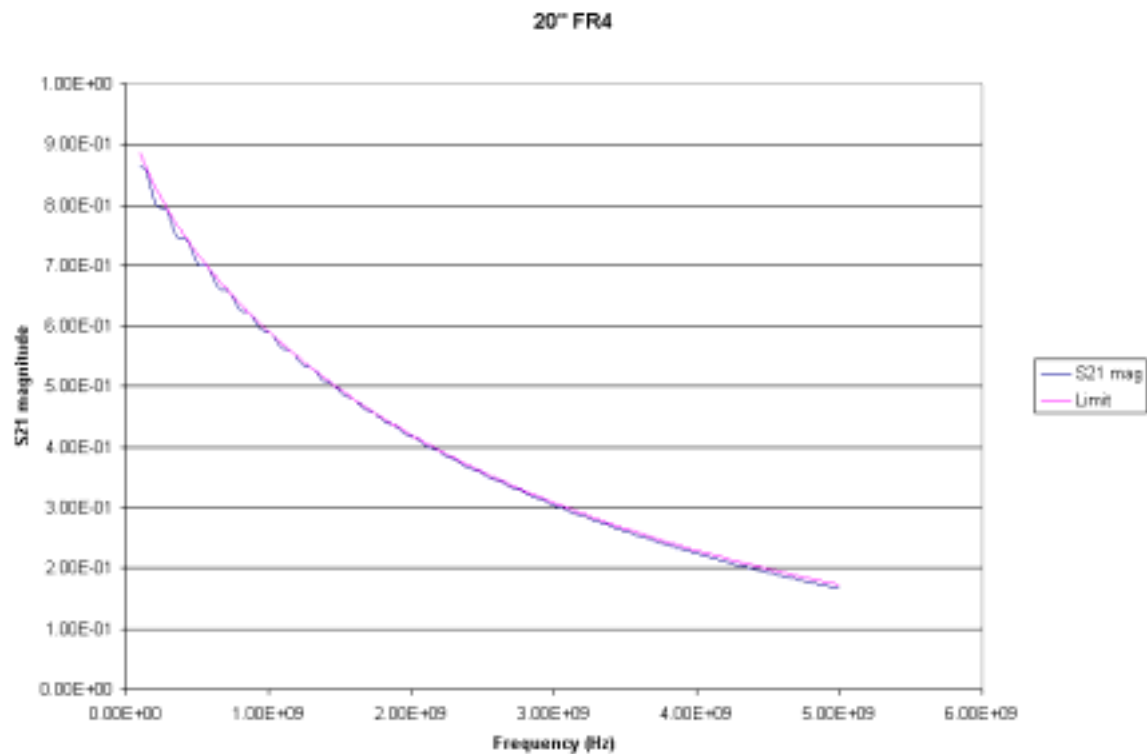


Data

20" FR4



Compliance Channel – loss limit



$$|S21| < \exp (-(a \sqrt{f} + b f))$$

Example limit: $a = 1e-5$, $b = 2e-10$

Differential stripline: 8 mil traces, 8 mils apart, 15 mil trace-planes

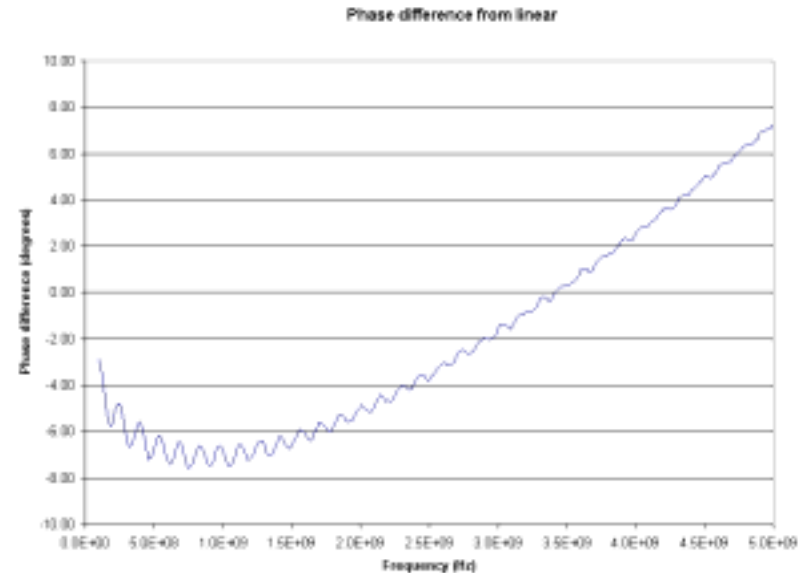
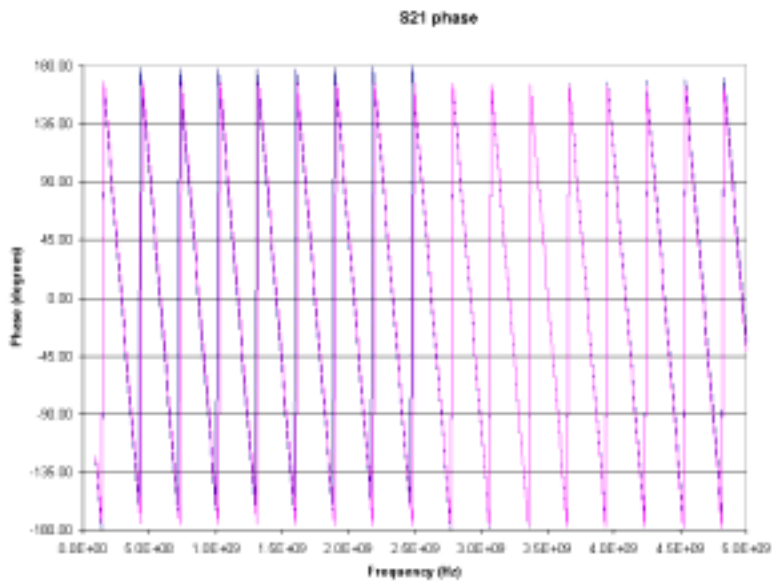
Compliance channel – ISI limit



Example limit: ISI loss > 4 dB

Differential stripline: 8 mil traces, 8 mils apart, 15 mil trace-planes

Compliance Channel - phase linearity



Example limit: Phase difference < 10 degrees

Differential stripline: 8 mil traces, 8 mils apart, 15 mil trace-planes

A decorative graphic consisting of a vertical bar on the left and a horizontal bar at the bottom, both composed of multiple parallel lines in a rainbow color spectrum (blue, green, yellow, orange, red). The vertical bar ends in a black arrowhead pointing downwards and to the right at the bottom-left corner.

Channel Specification

- Max S21 magnitude limit
- Min ISI loss
 - Include $> F_{\text{baud}}/2$
- Group delay or phase difference from linear
- Channel impedance