

Revisiting Channel Measurements

The slide features a decorative arrangement of five light purple circles. One circle is empty and positioned behind the word 'Channel' in the title. The other four circles are solid and positioned behind the words 'Measurments', 'John D'Ambrosia', 'Tyco Electronics', and 'February 23, 2005' respectively.

John D'Ambrosia
Tyco Electronics
February 23, 2005

Issues Raised

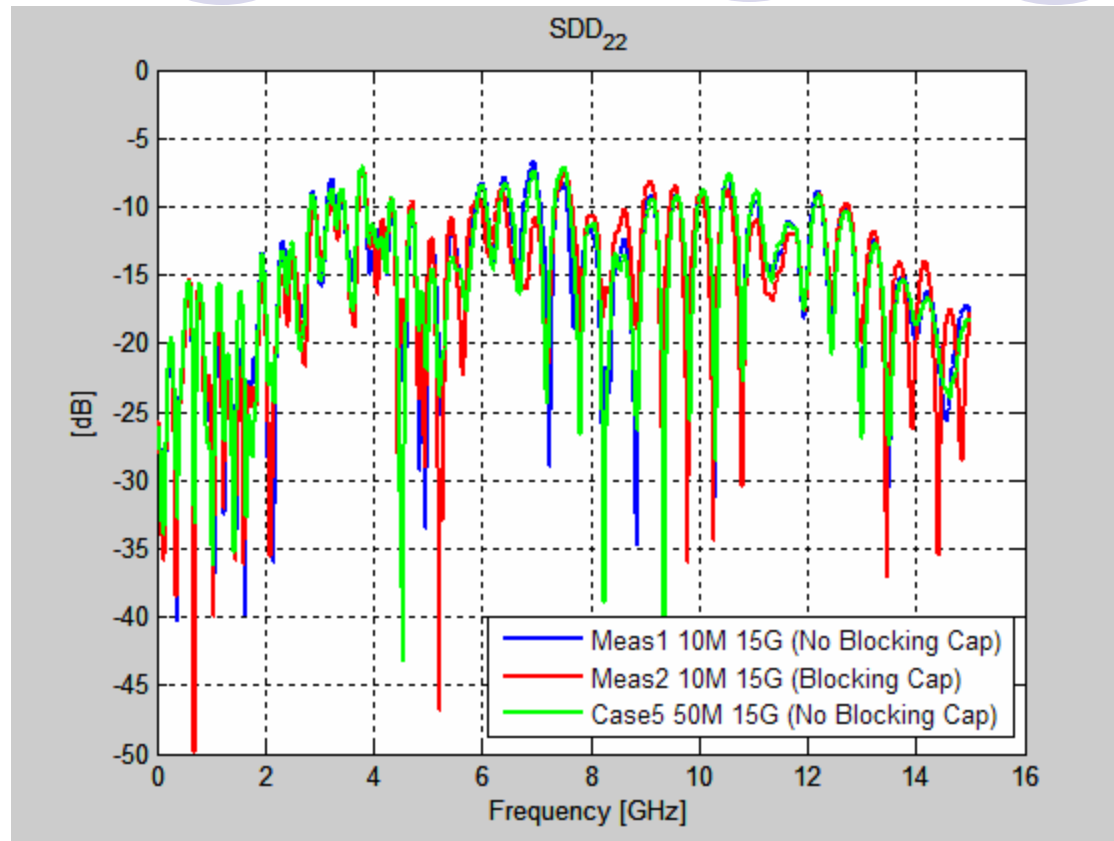


- Extrapolation to lower frequencies
- Inclusion of AC Coupling Cap

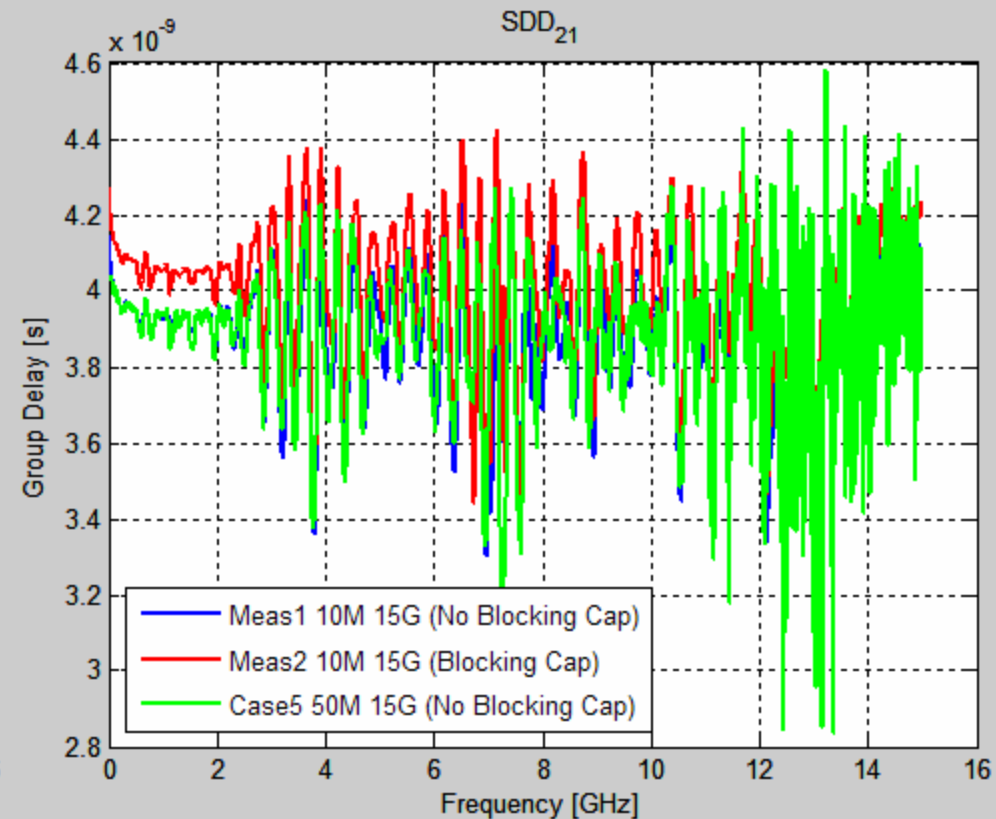
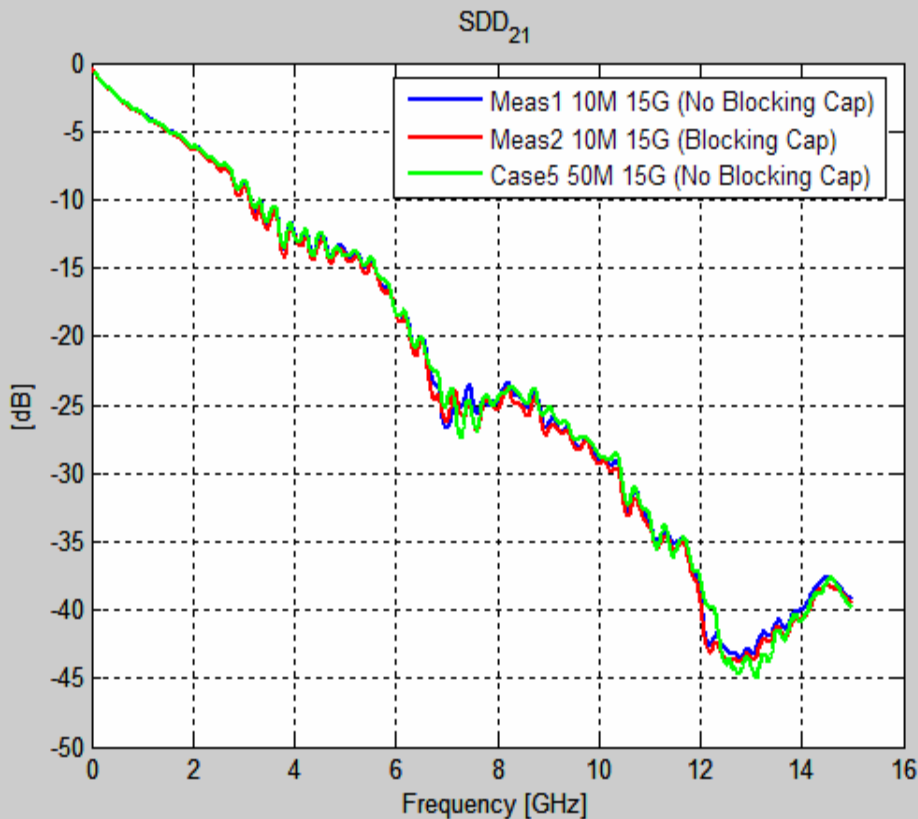
Re-measurement of Tyco Case 5

- Initial measurement 50 MHz – 15 GHz
- Agilent Equipment (P/N Unknown currently)
 - 10 MHz – 15 GHz
 - 1 MHz – 15 GHz (16,000 points)
 - 330 KHz – 5 GHz (16,000 points)
- Measurements taken with and without AC Coupling Cap between SMA Line Card and PNA
- Need to get more analysis with 16,000 points data

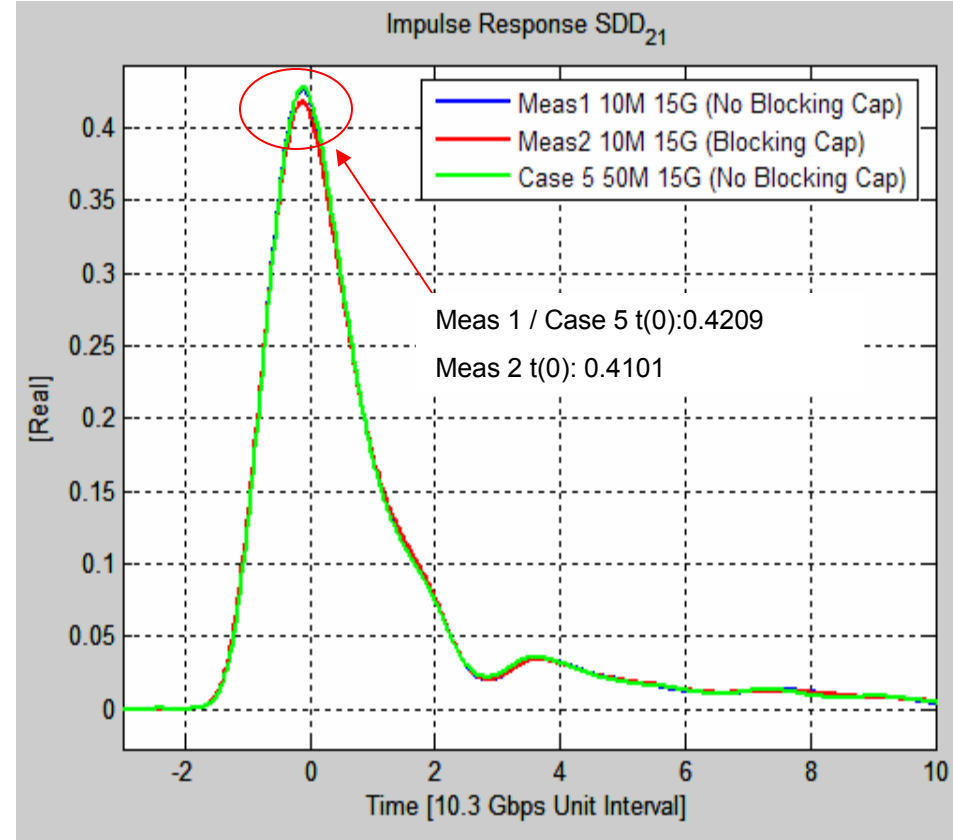
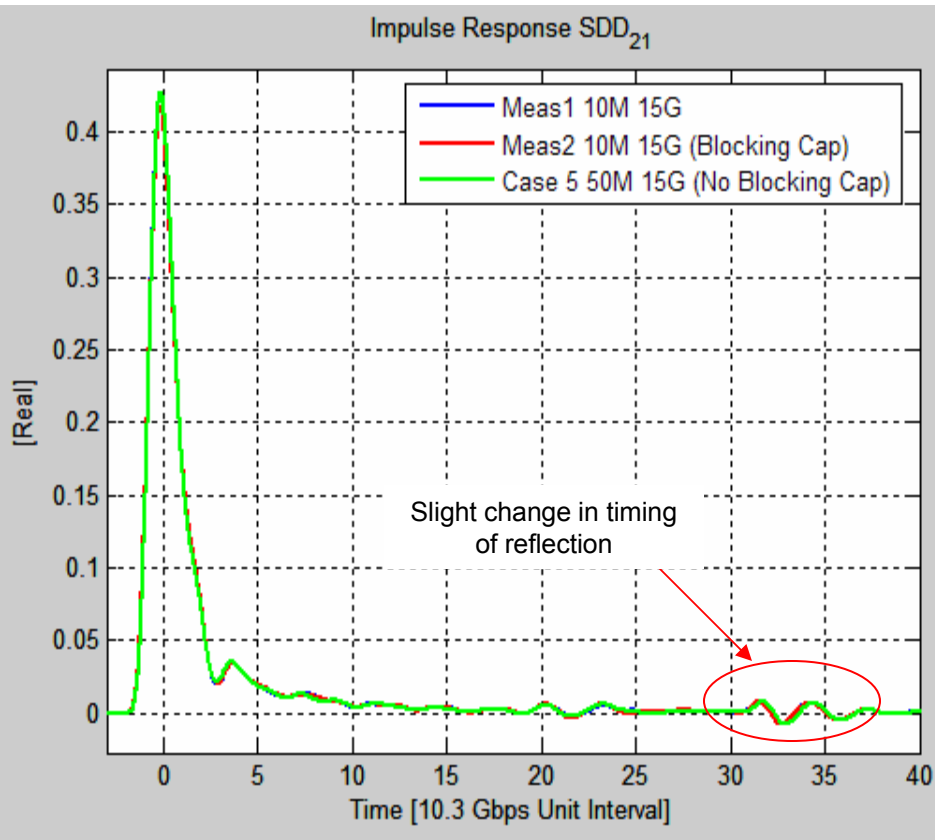
SDD22 Return Loss Comparison



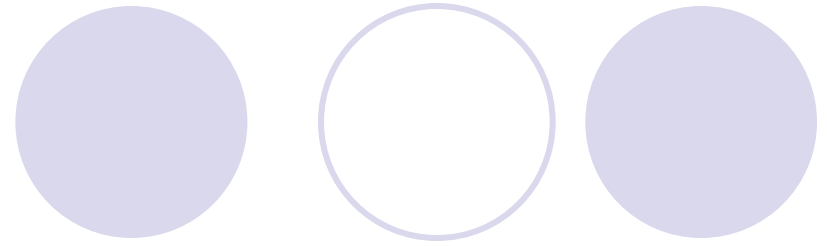
Forward Channel Comparison



Pulse Response – 10.3 Gb/s



Initial Conclusions



- Minor effects noticed
 - SDD22
 - SDD21
 - SDD21 Group Delay
 - Pulse response reflection timing
 - Pulse response amplitude
- Does not include physical structures, i.e. vias and pads, for blocking cap.
- Further data needed.