TPOv Reference Channel

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Overview

- **TPOv** reference channel is constructed from table 92-12 parameters
- **TPOv** reference channel constructed assuming 2 vias and one stripline
- TPOv reference channel has a loss of 2.8 dB@26.55 GHz
- **TPOv** reference channel is a synthetic and be reproduced by everyone's
 - TPOv reference channel can facilitate and verify the measurement procedure
 - If the DUT board is similar TPOv reference channel, then one may be able to use direct measurement.

Defining TPOv Reference Channel

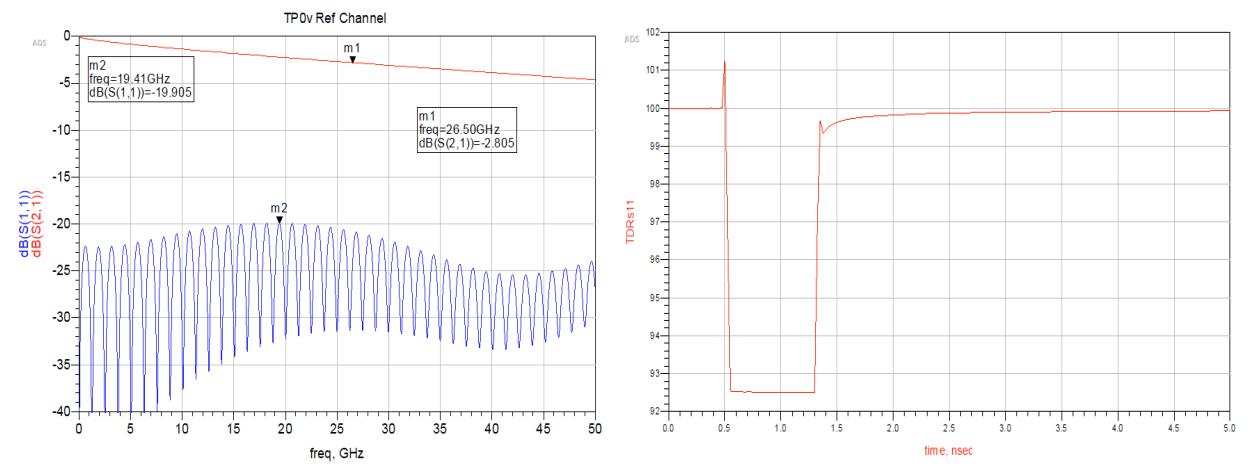
TPOv reference channel is constructed to have 2.8 dB loss at 26.55 GHz

- Board trace parameters per table 92-12
- Via length 2 mm 102 Ω
- Stripline length 66.8 mm 92.5 Ω .

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Num=1 Balun4Port IEEE CK-PCB-TL TEEE CK-PCB-TL Balun4Port S Num=2
Z=100 Ohm
Trace_Length=2 Trace_Length=2 Trace_Length=66.8 Trace_Length=2
Trace_Z=102.5 Trace_Z=92.5 Trace_Z=102.5
+ VtStep
V_{+} / V_{+
 Delay=0 nsec Rise=10 psec

TPOv Reference Channel

S-parameters and TDR response



TPOv Fitted Response

TPOv reference channel has a loss of 2.8 dB at 26.55 GHz as defined

- Fitted channel transfer loss given by 0.006+0.25*sqrt(f) + 0.057*f, where f is in GHz.

