SFP compliance board measurements for MSQS-2

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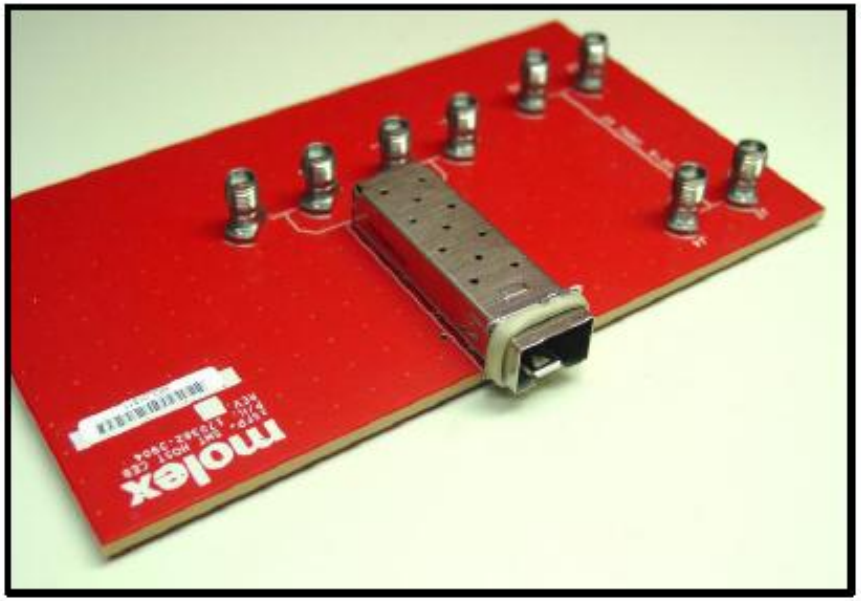


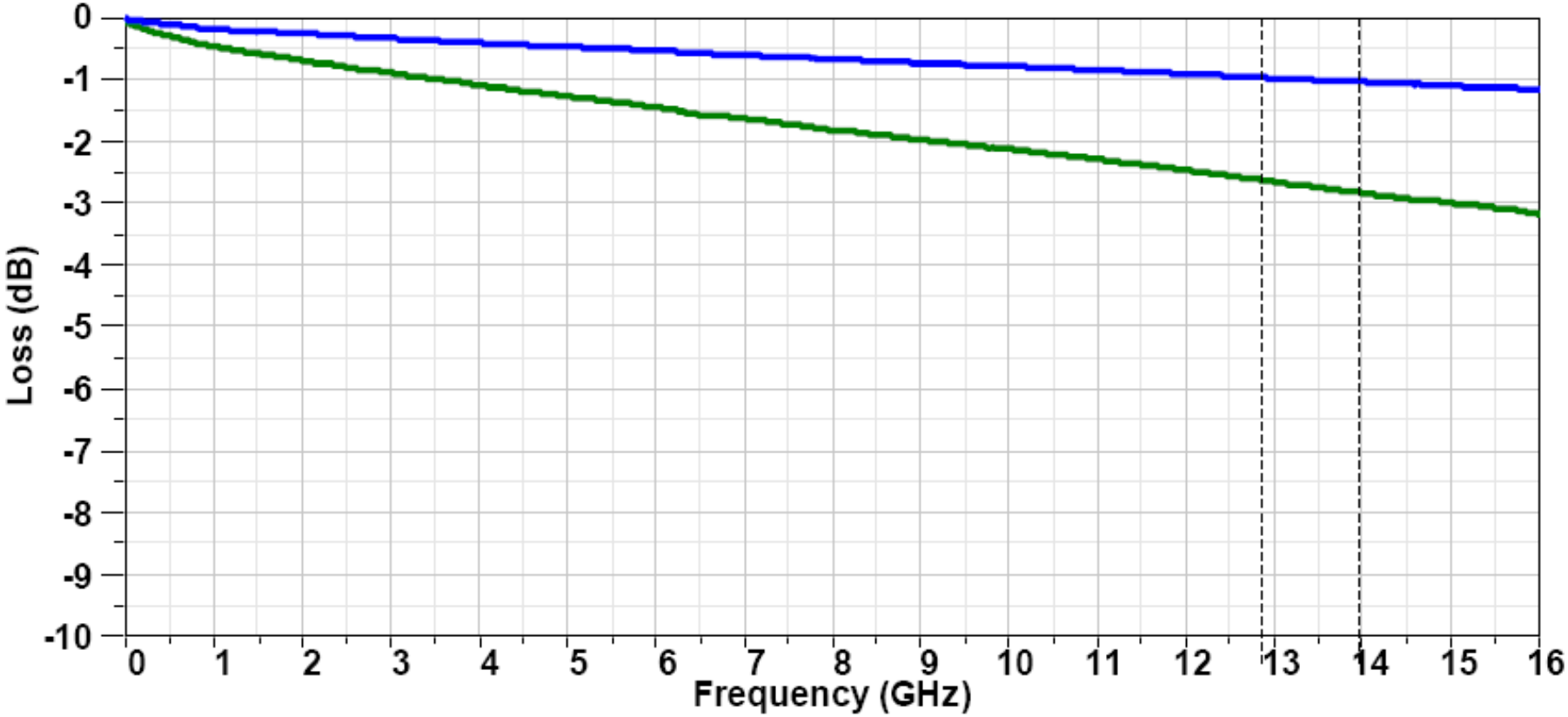
Board Information

Material:	FR408HR
Thickness:	3.0mm
Layers:	6

High Speed Traces

- High-Speed Signals on Layer 5
- Referenced to Layer 6
- 0.007” dielectric thickness between layers 5 and 6
- 25mm single-ended length on Host Board
- 80mm single-ended length on Edge Card
- Artwork available upon request (Revision A)

Reference trace loss Fig. 2.5



M1: SDD21@ 12.89Ghz	
Host Board:	-0.98 dB
Edge Card:	-2.63dB

M2: SDD21@14.0Ghz	
Host Board:	-1.05 dB
Edge Card:	-2.80dB

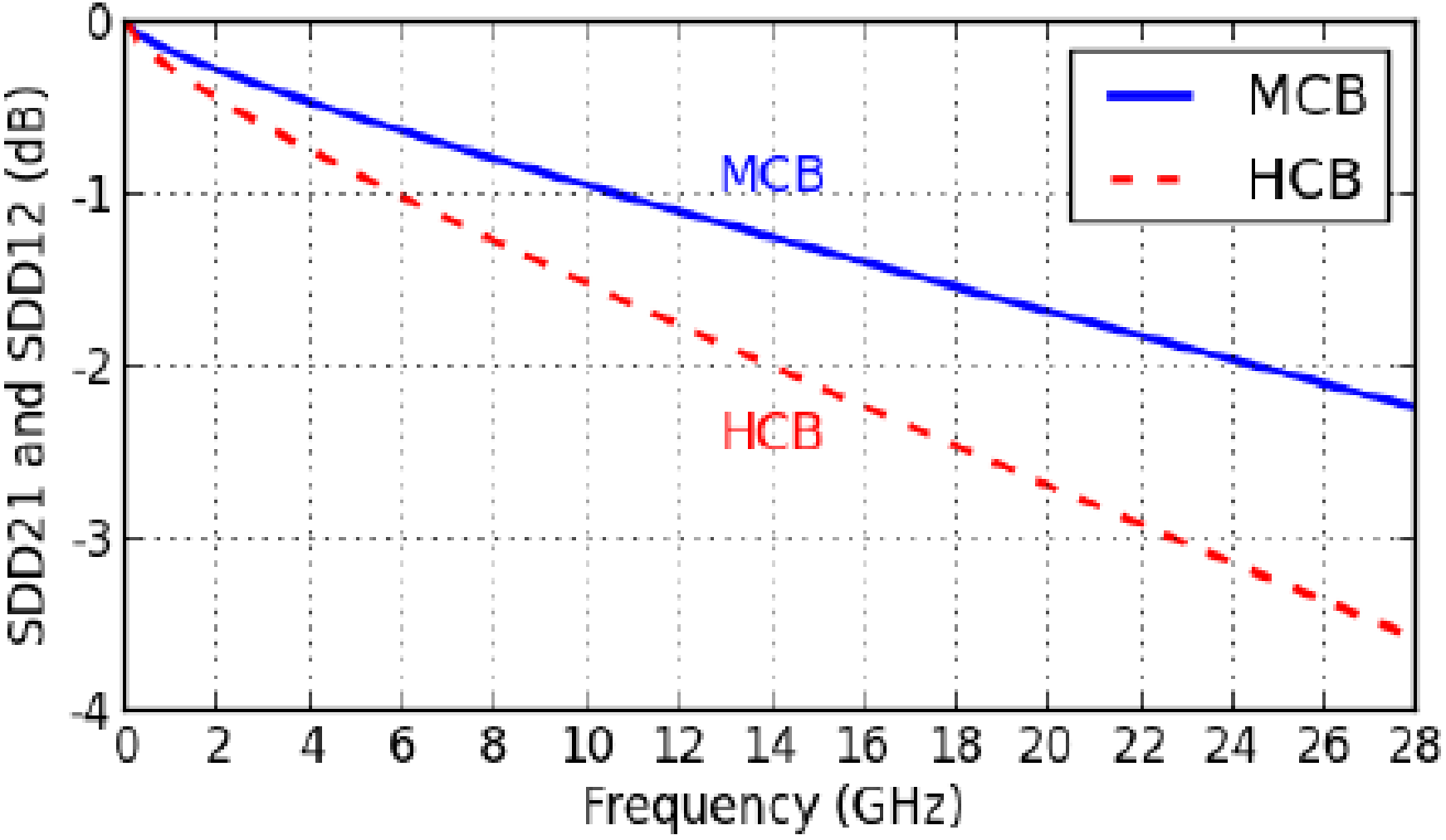
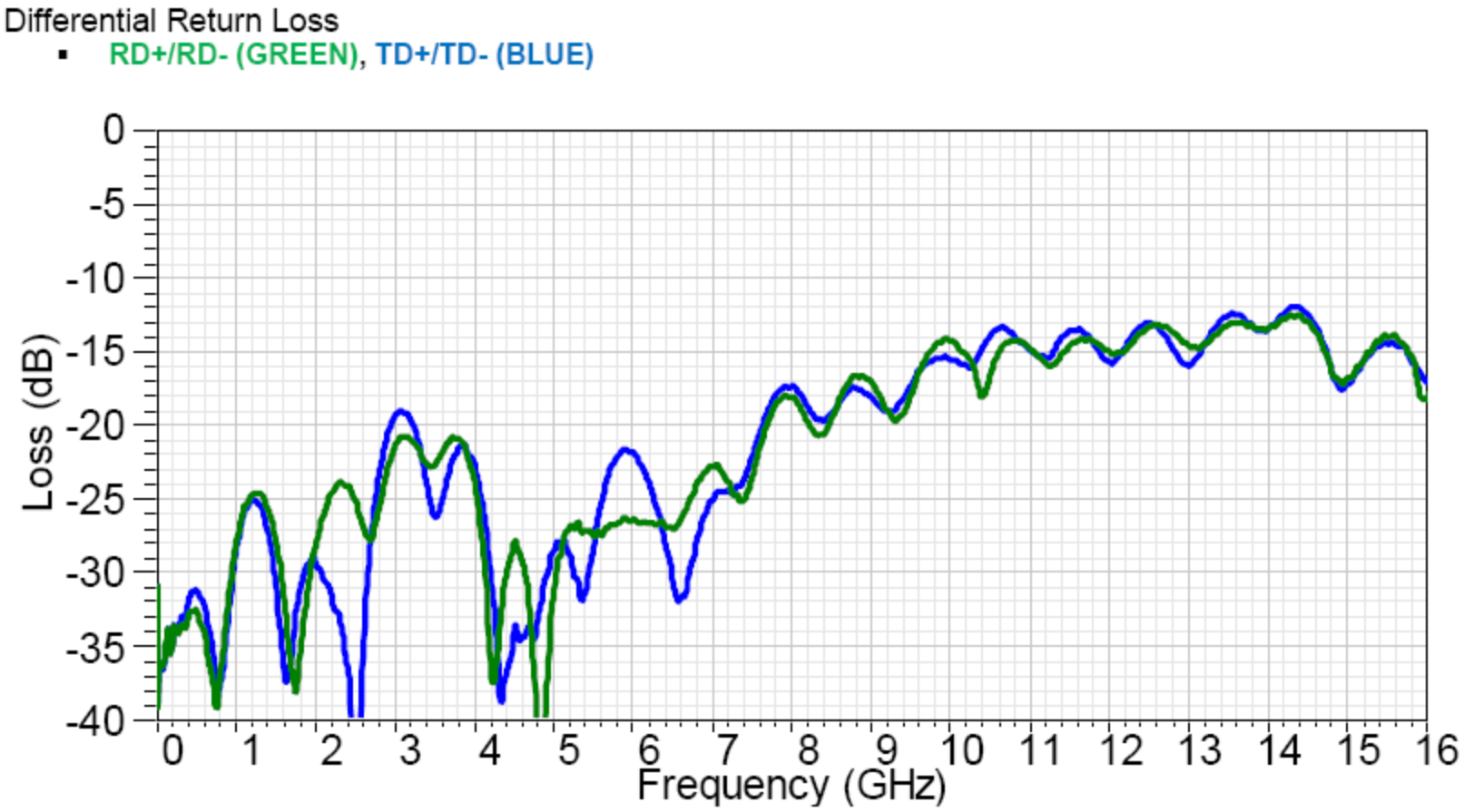


Figure 2.5 - Host and module compliance board reference through response

Return Loss Fig. 2.6



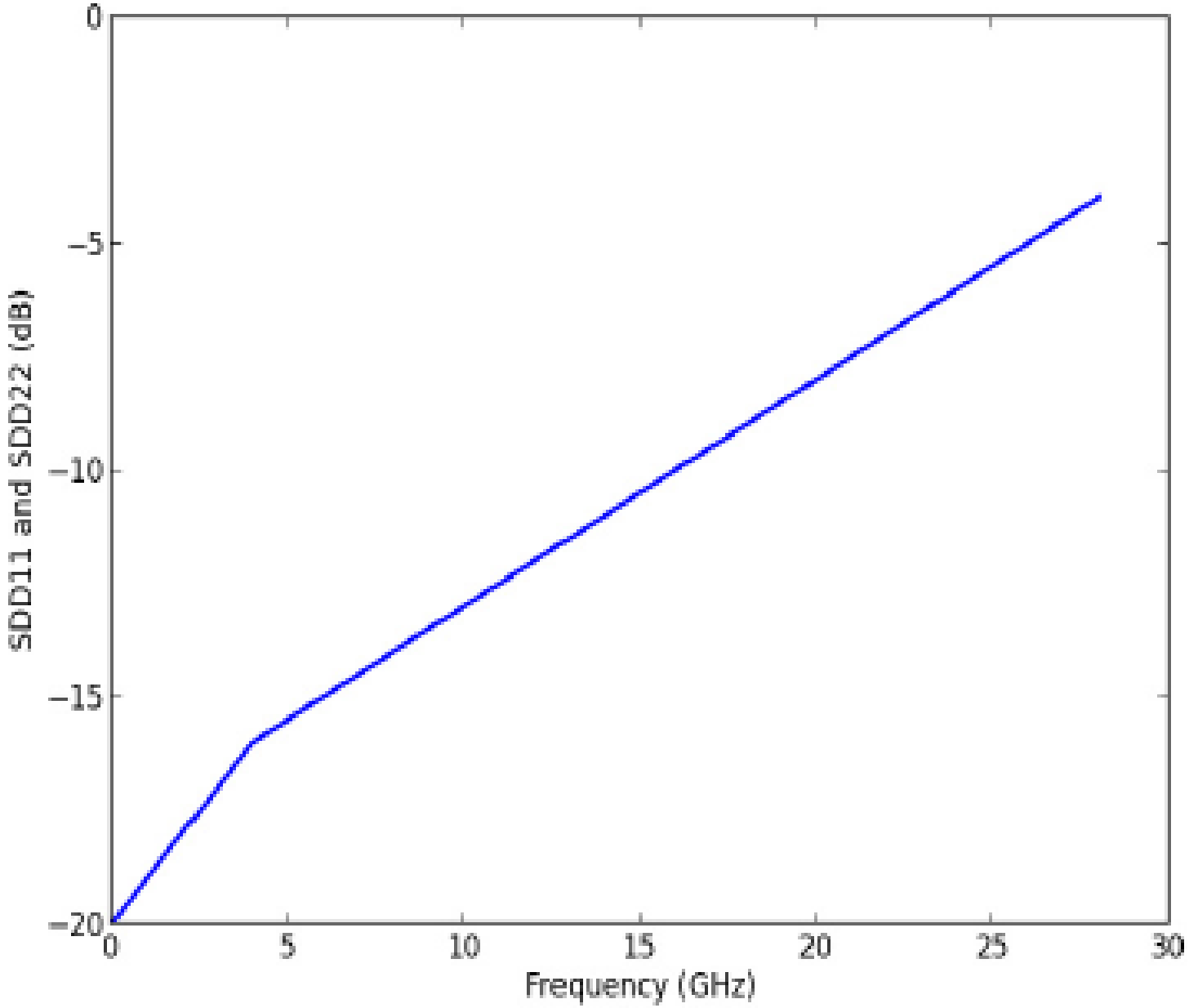


Figure 2.6 - Mated MCB-HCB return loss

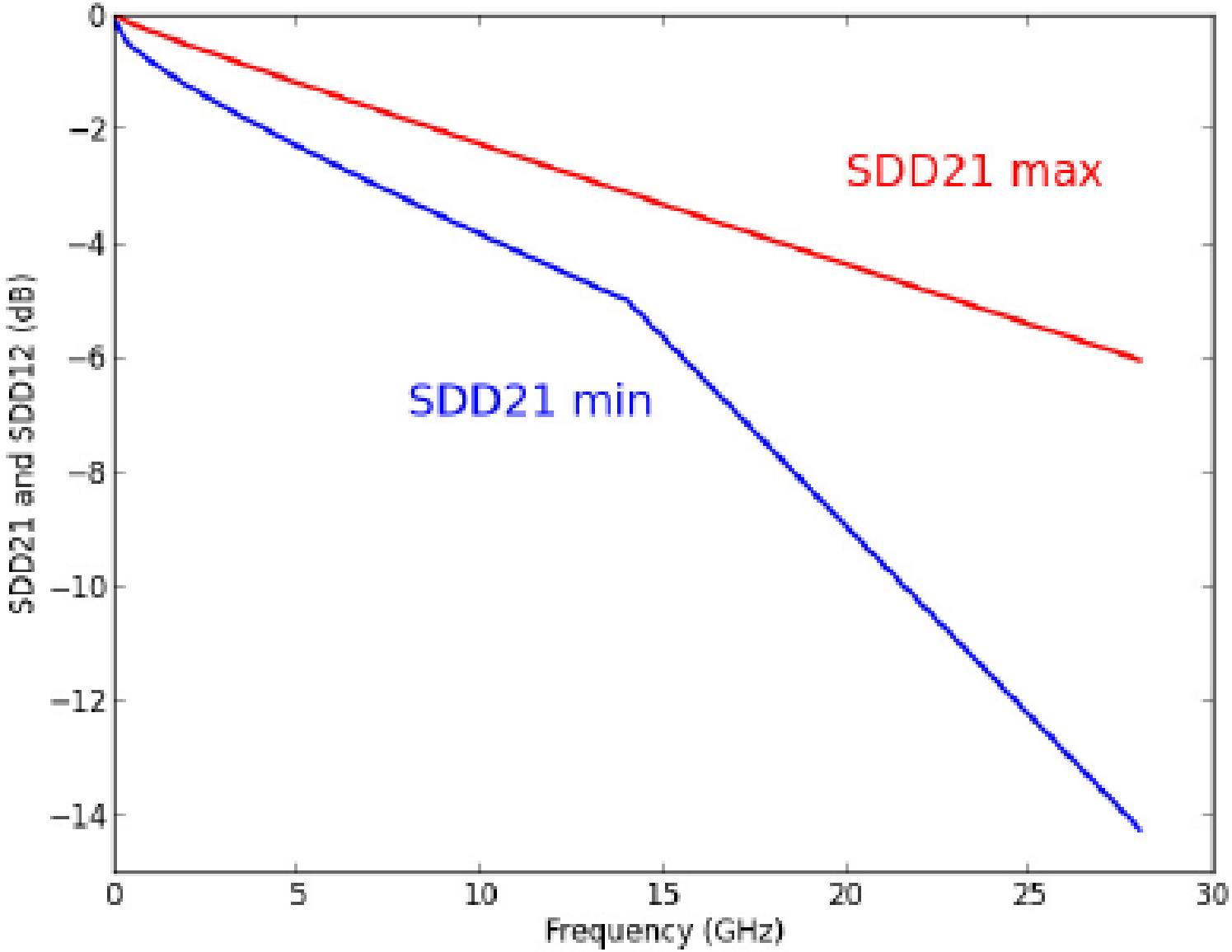
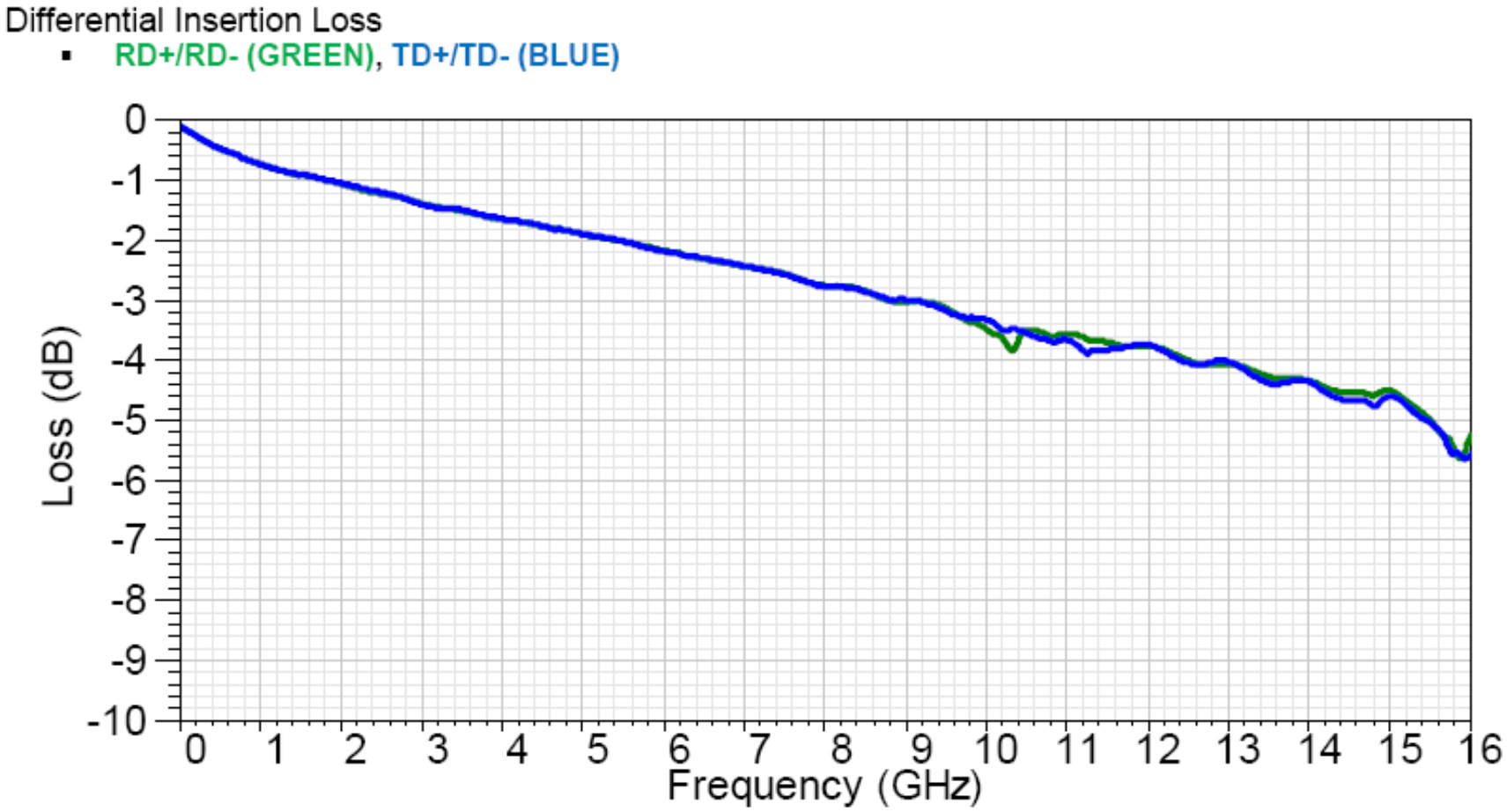


Figure 2.7 - Mated MCB-HCB differential through response

Insertion loss Fig. 2.7



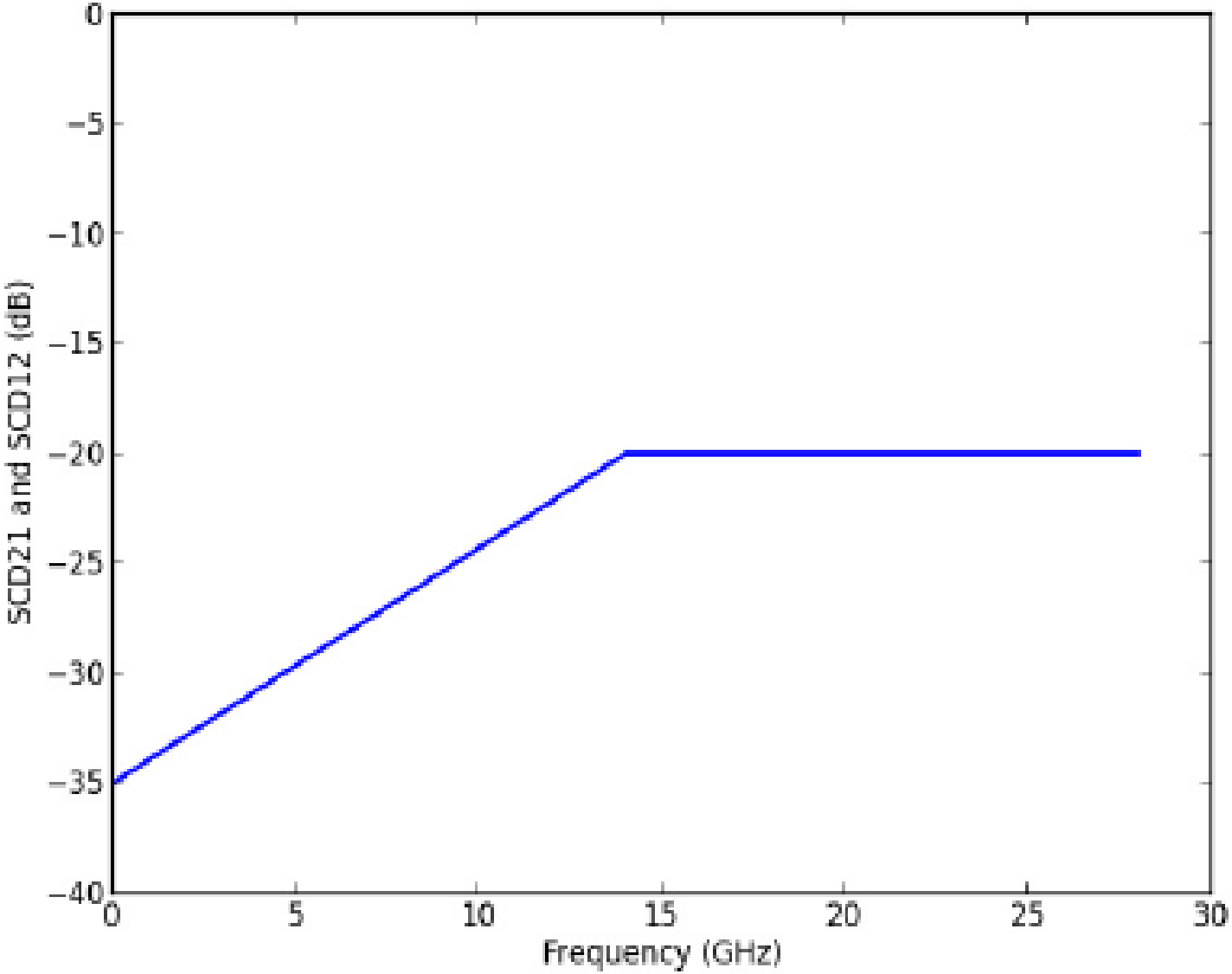
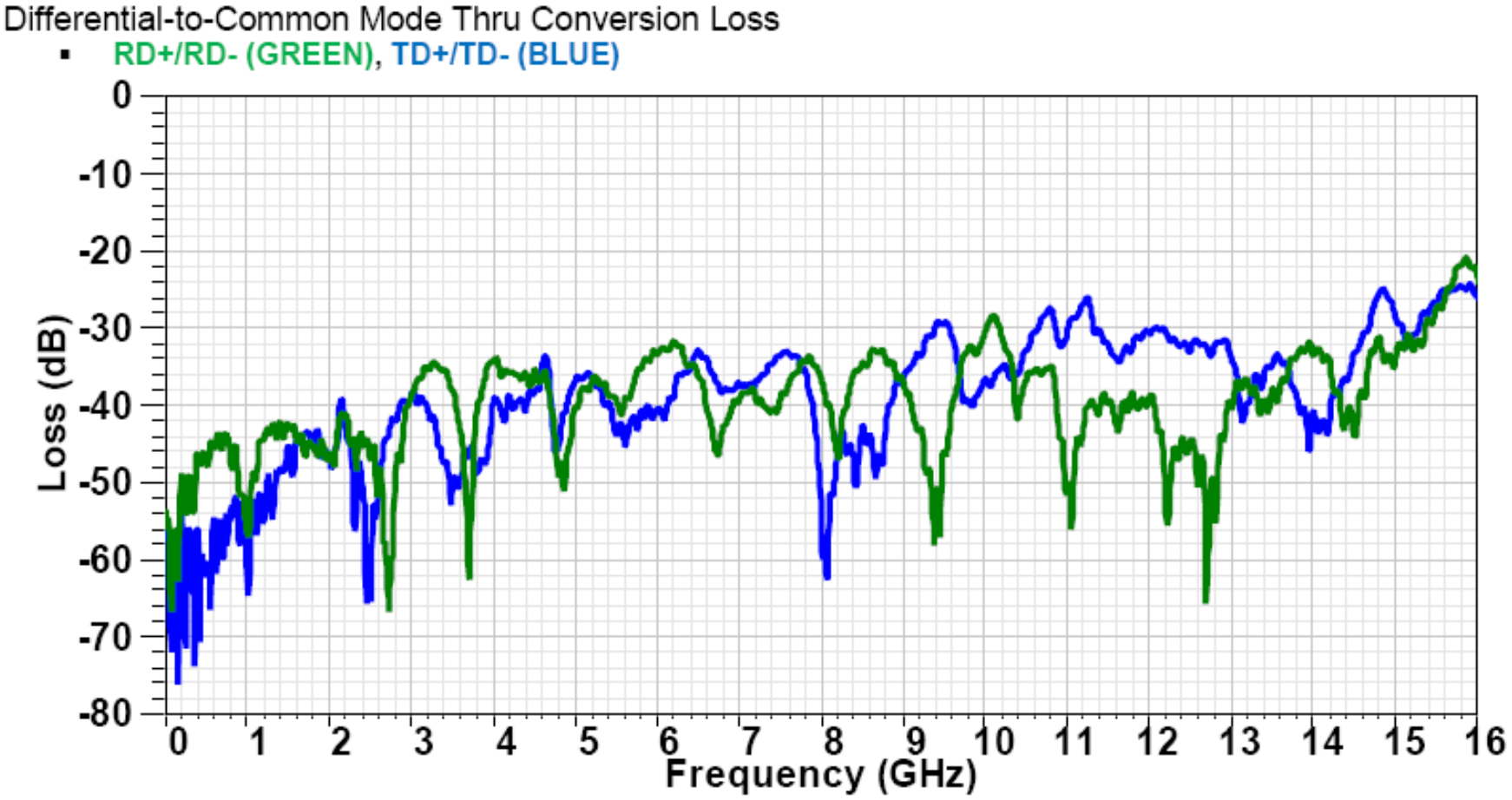
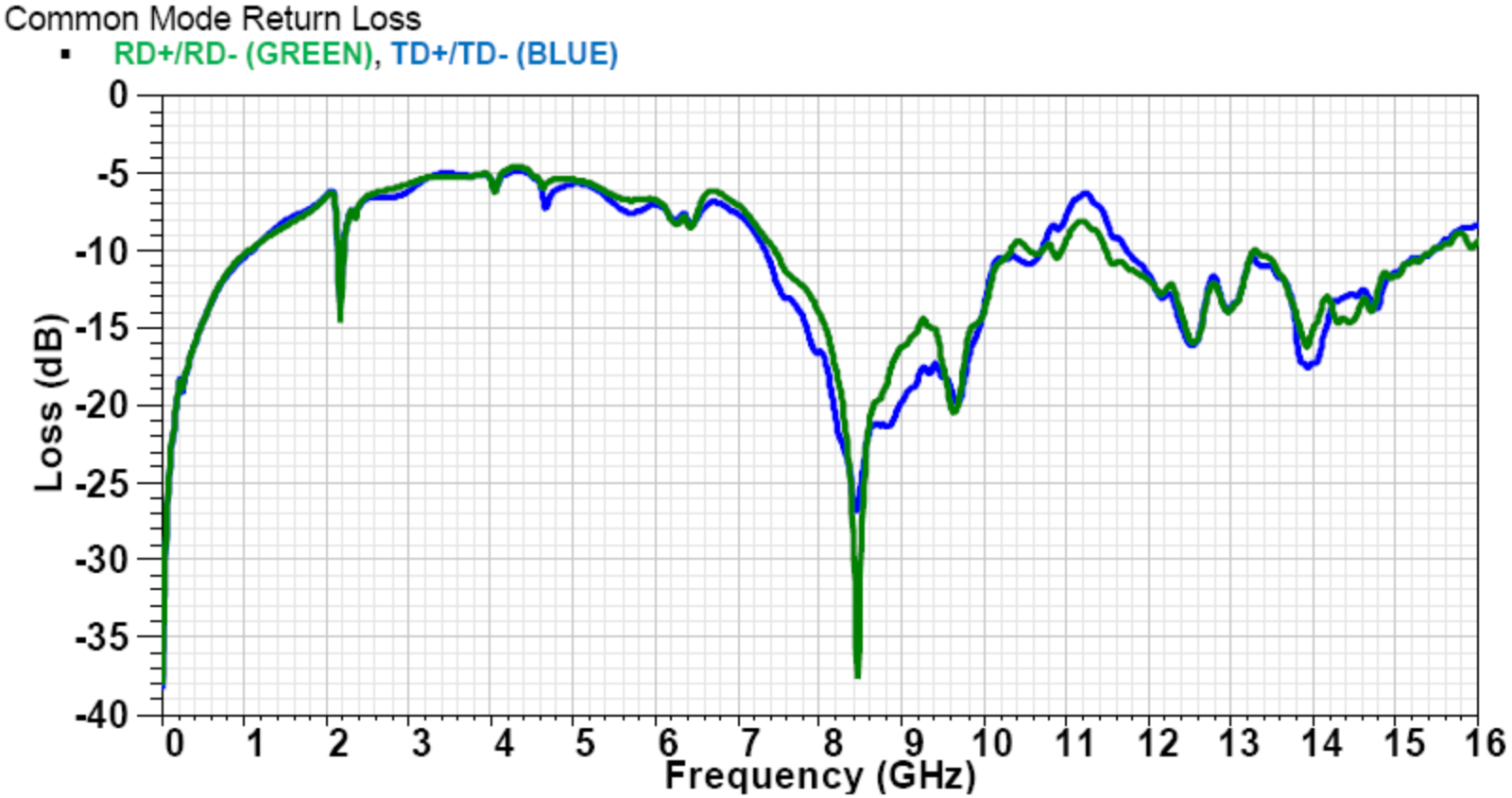


Figure 2.8 - 32GFC Mated MCB-HCB differential to common mode response

Diff to common mode Fig 2.8 (Passes)



Common Mode return loss (Not specified) IEEE = -3dB flat



Differential to common mode return loss

- Fig. 2.9: Did not measure