



# Return Loss Comment

March 2006

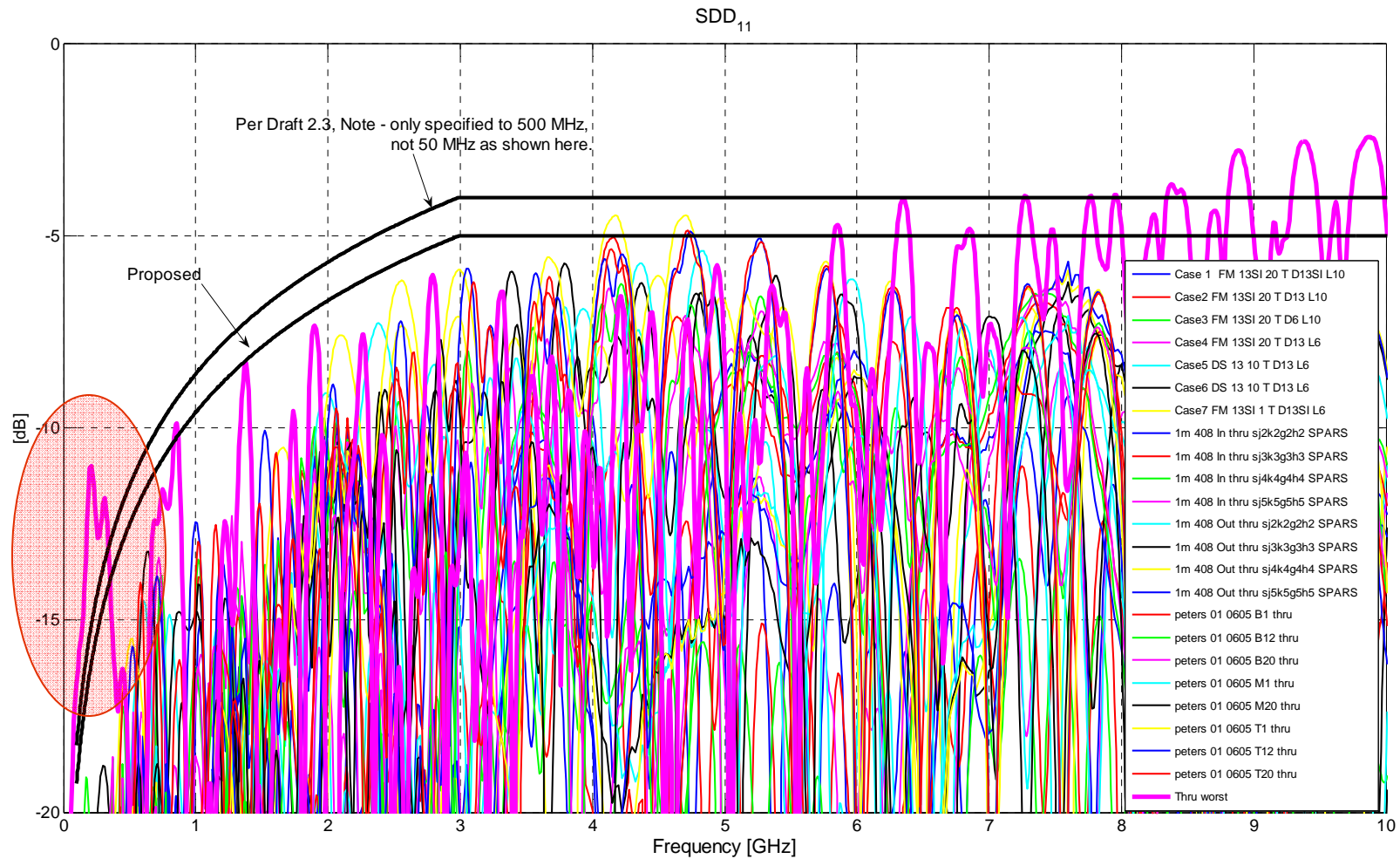
John D'Ambrosia

# Introduction

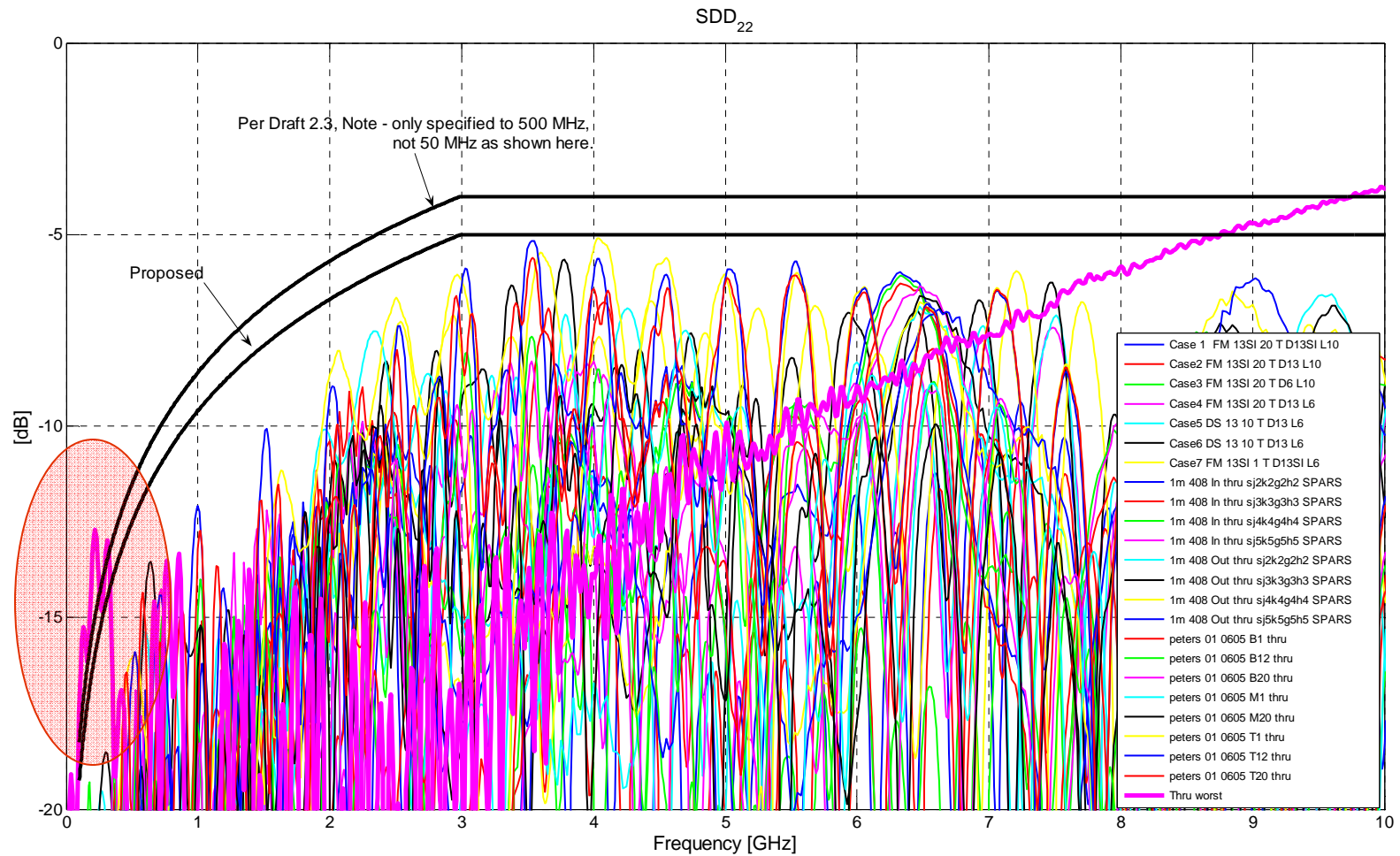
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- Comment submitted by D'Ambrosia
  - Return Loss Specification is insufficient
  
- Work based on “Thru-Worst” channel
  
- Supporters
  - Rich Mellitz
  - Howard Baumer

# Return Loss – SDD11



# Return Loss – SDD22



# Recommendations

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- Change Equation 69B-12

- $RL(f) \geq RL_{\max}(f) = 22 - 9.56 * \log_{10}\left(\frac{f}{50\text{MHz}}\right)$

- Change frequency range for 69B-12 to

- For  $50\text{MHz} < f < 3000 \text{ MHz}$

- Change Equation 69B-13

- $RL(f) \geq RL_{\max}(f) = 5$

- Change frequency range for 69B-13

- For  $3000 \text{ MHz to } 10,312.5 \text{ MHz}$