Further Refinement to RLdc Masks

(Comments 169 and 170)

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IEEE 802.3dj Interim Meeting

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Overview

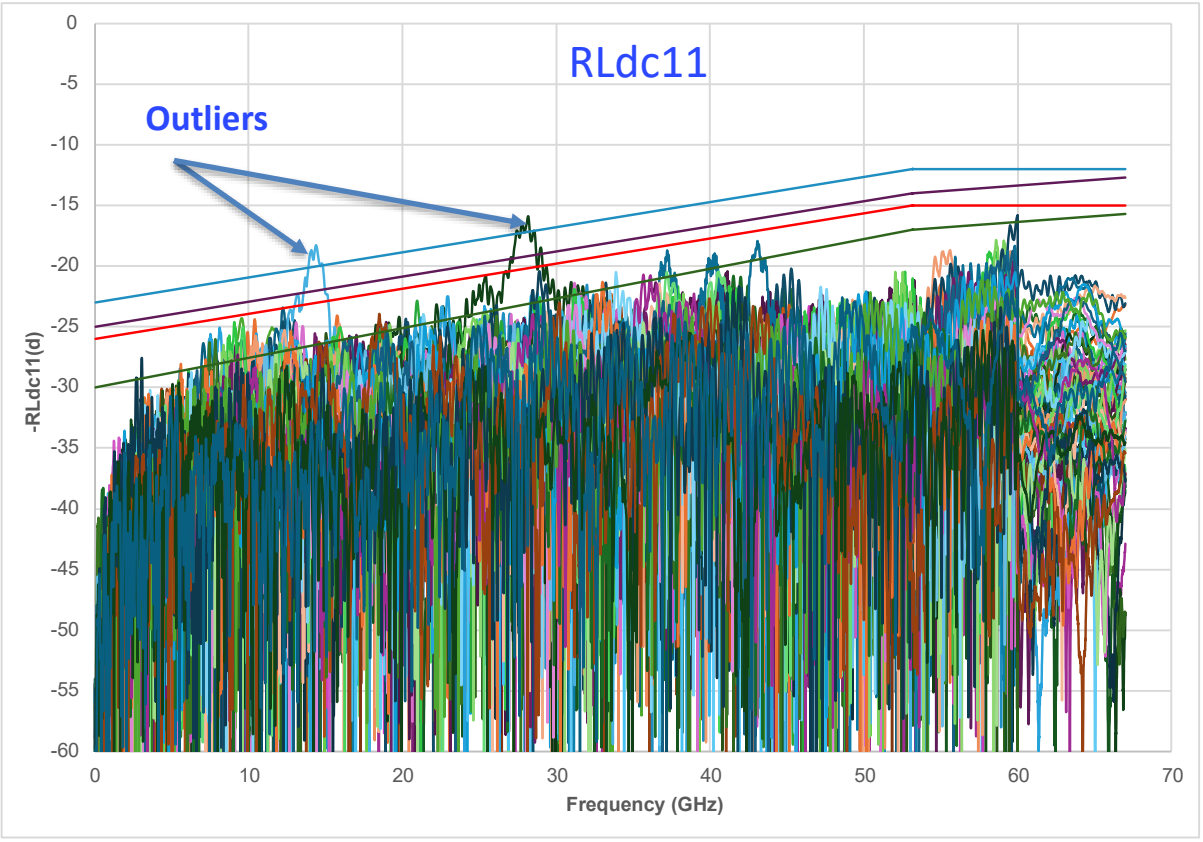
- **Background**
  - Proposed adjustment to RLdc11/22 mask limit
- **MTF results against the masks for Zo=92.5 Ω**
- **MTF results against the masks for Zo=100 Ω**

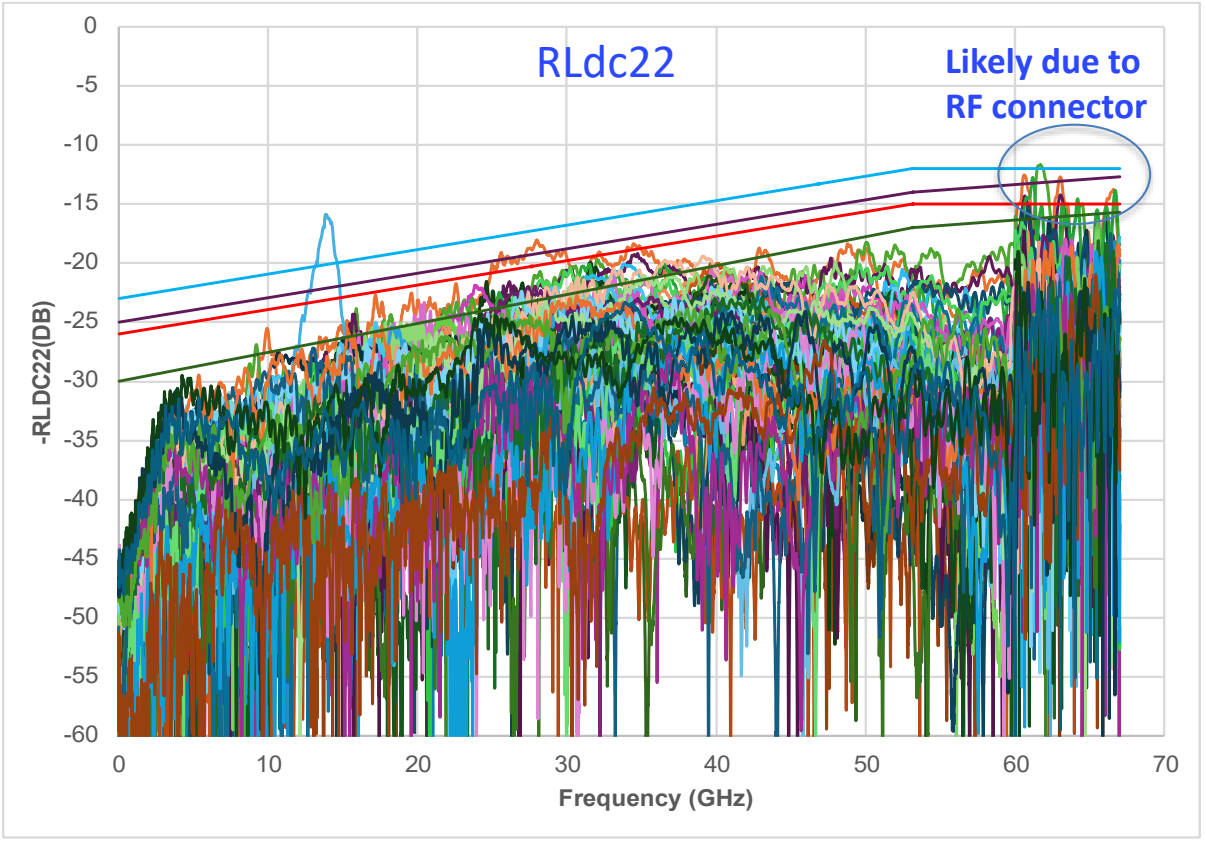
RLcd11/RLdc22 Comments

- **S-Parameters masks RLcd11/22 limit for both MTF and host output TP1a and module output TP4 were strengthen during D2.0 comment resolution and the limit was extended from 60 GHz to 67 GHz**
  - Another major change was changing Zo=92.5 Ω which generally improves the RLcd11/22 by ~ 5dB
  - RLdc22 is slightly better than RLdc11 due to higher HCB loss but not enough to create separate mask limits
- **The changes made during D2.0 are in the right direction but the limits adopted are to strengthen for connectors under consideration**
  - Proposed RLdc11/22 for the MTF
    - $RLdc11 = RLdc22 = 26 - 22 \times \frac{f}{106.25}\ up\ to\ 53.125\ GHz$
      $= 15\ dB\ from\ 53.125\ GHz\ to\ 67\ GHz$
  - Proposed RLdc11/22 for the TP1a/TP2 and TP4a/TP4
    - $RLdc11 = RLdc22 = 23 - 22 \times \frac{f}{106.25}\ up\ to\ 53.125\ GHz$
      $= 12\ dB\ from\ 53.125\ GHz\ to\ 67\ GHz$

MTF RLdc11 and RLdc22 (92.5 Ω)

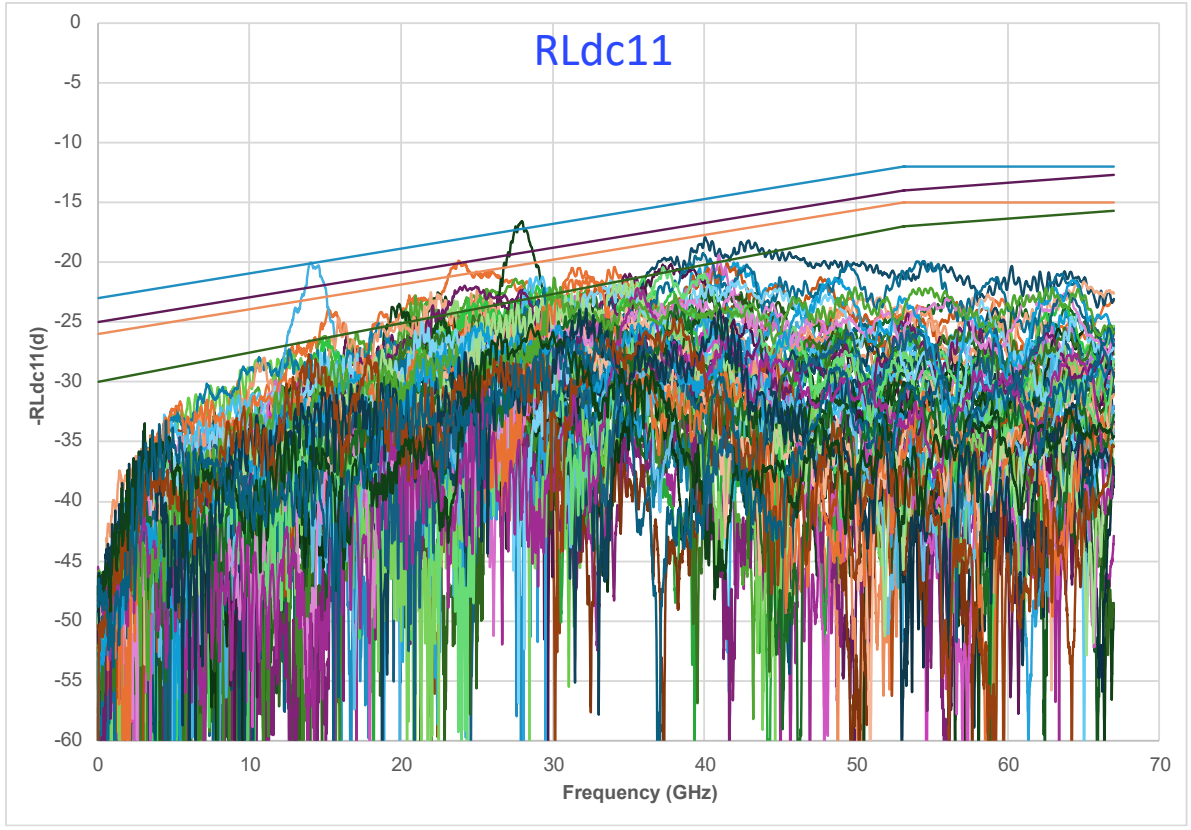
- **Wilder MTF see https://www.ieee802.org/3/dj/public/tools/MTF/sekel_3dj_02_2503.zip**
  - RLdc11 is slightly better due to HCB higher loss than MCB loss
    - Brown – current MTF limits, Black – current host/module limits
    - Red – Proposed MTF limits, Blue – proposed host/module limits

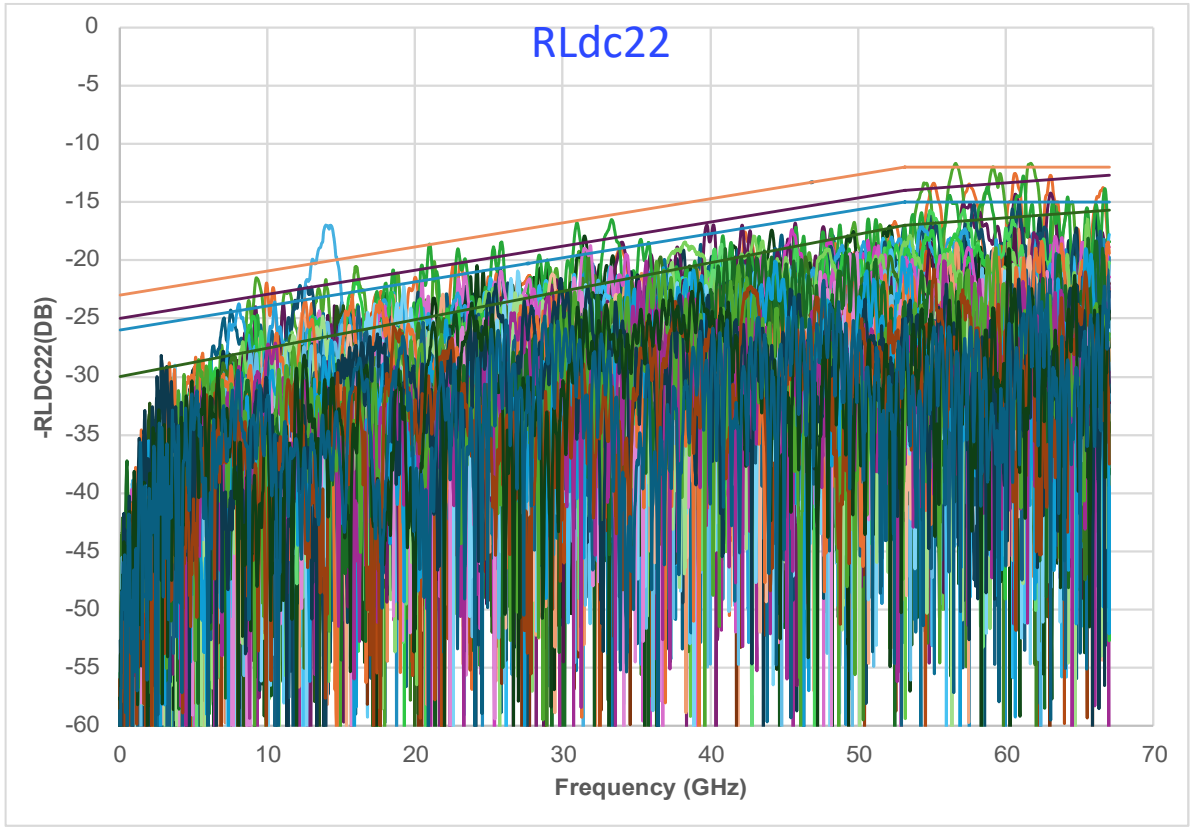




MTF RLdc11 and RLdc22 (100 Ω) for Information

- **Wilder MTF see https://www.ieee802.org/3/dj/public/tools/MTF/sekel_3dj_02_2503.zip**
  - RLdc11 is slightly better due to HCB higher loss than MCB loss
    - Brown – current MTF limits, Black – current host/module limits
    - Red – Proposed MTF limits, Blue – proposed host/module limits





Thank You!