

# VRTC Sled Test Series



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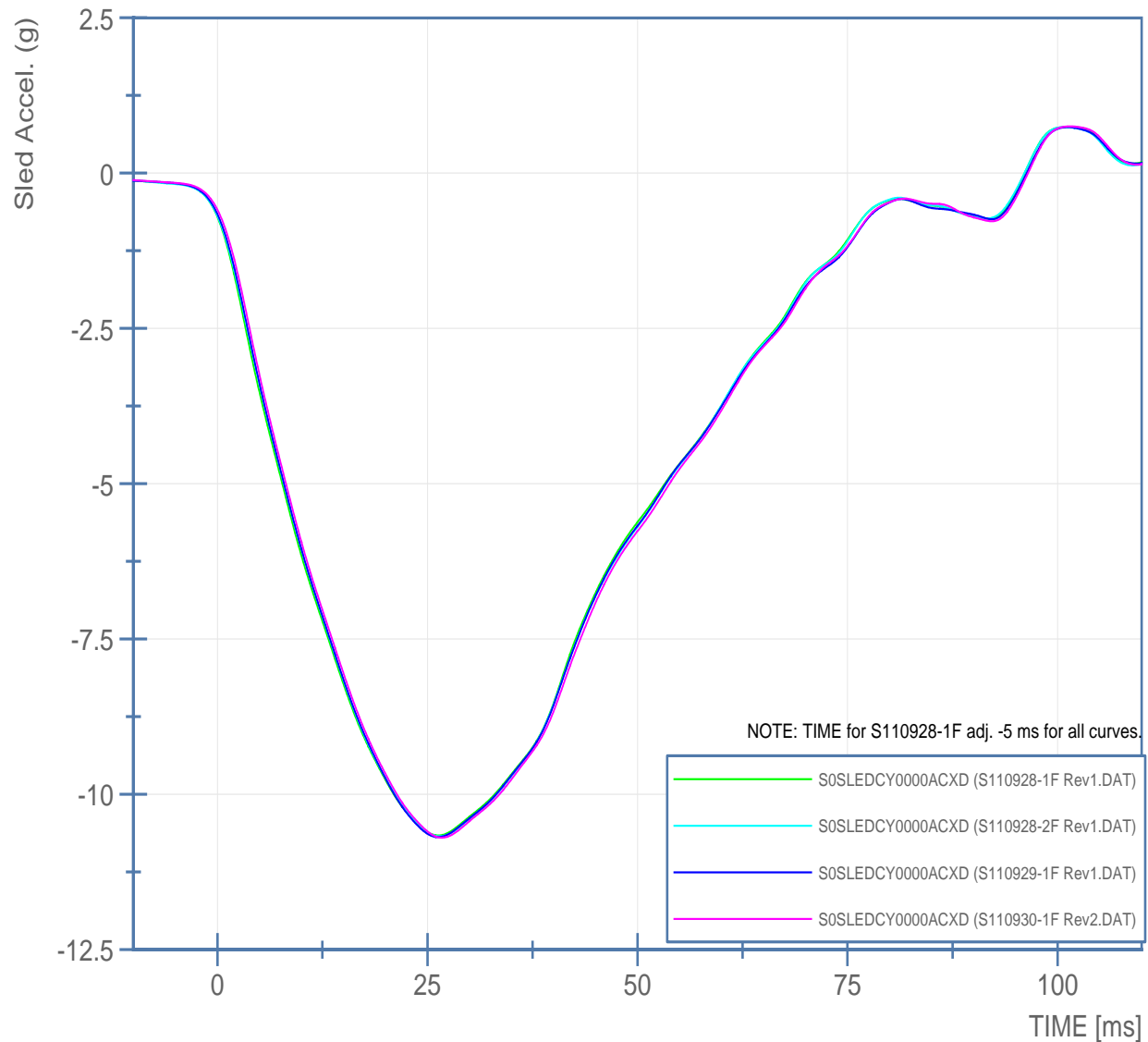
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# VRTC Sled Test Series

- ▶ VRTC ran sled tests to assist Humanetics in finding PDB dummy reproducibility problem
  - PDB dummies 0006 and 0007
  - Same Ricaro seats used at OSRP
  - Attempted to replicate PDB positioning
  - Pulse: modified Annex 9
    - ▶ VRTC could not replicate pulse used by PDB
  - Ran 4 sled tests

# VRTC Pulse Overlay

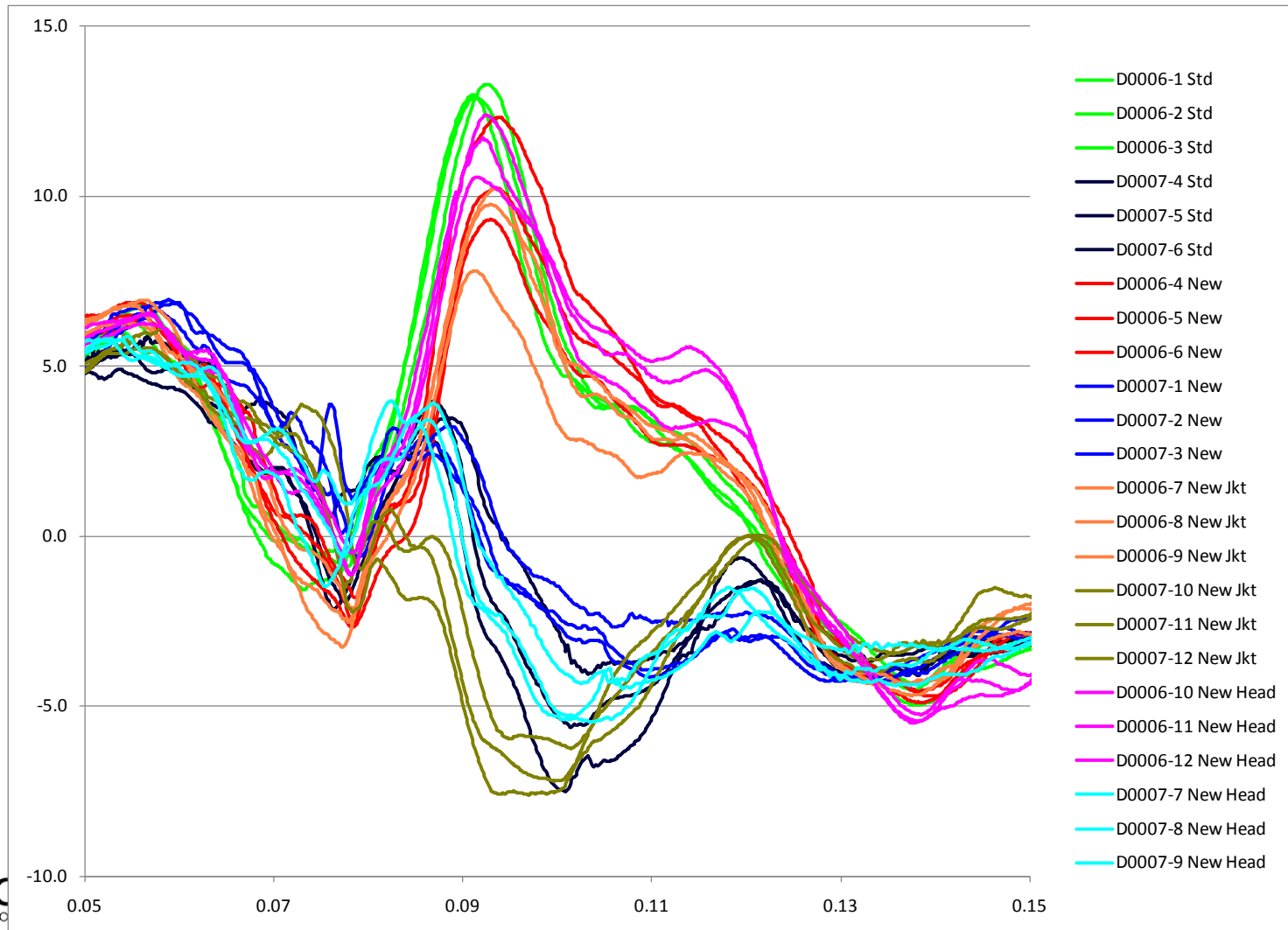


# Test Matrix

- ▶ Test 1: baseline
- ▶ Test 2: baseline repeat
- ▶ Test 3: change dummy position
  - According to normal VRTC seating
- ▶ Test 4: swap seats

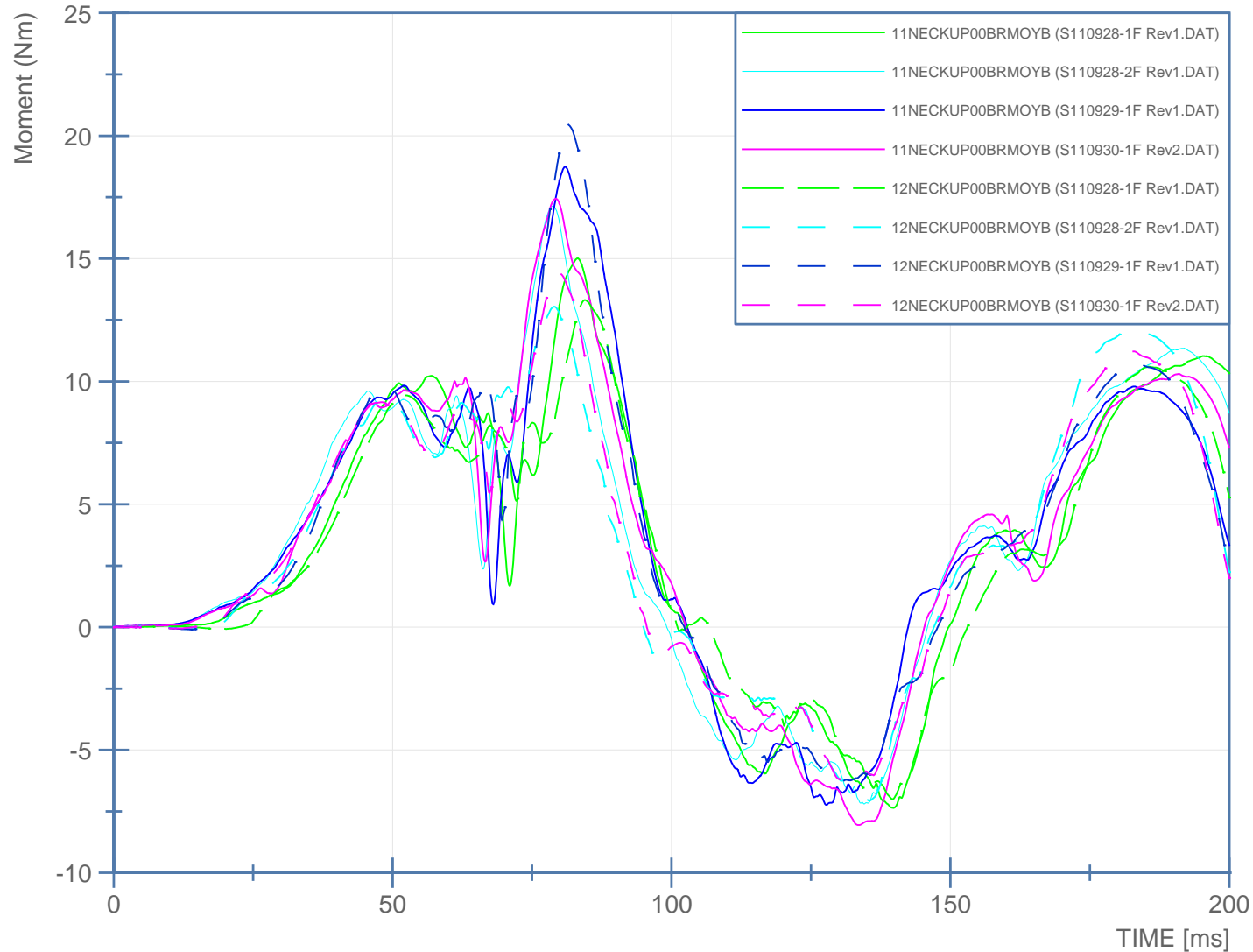
# Problem seen by PDB

## ► Different Upper neck My shape during head contact

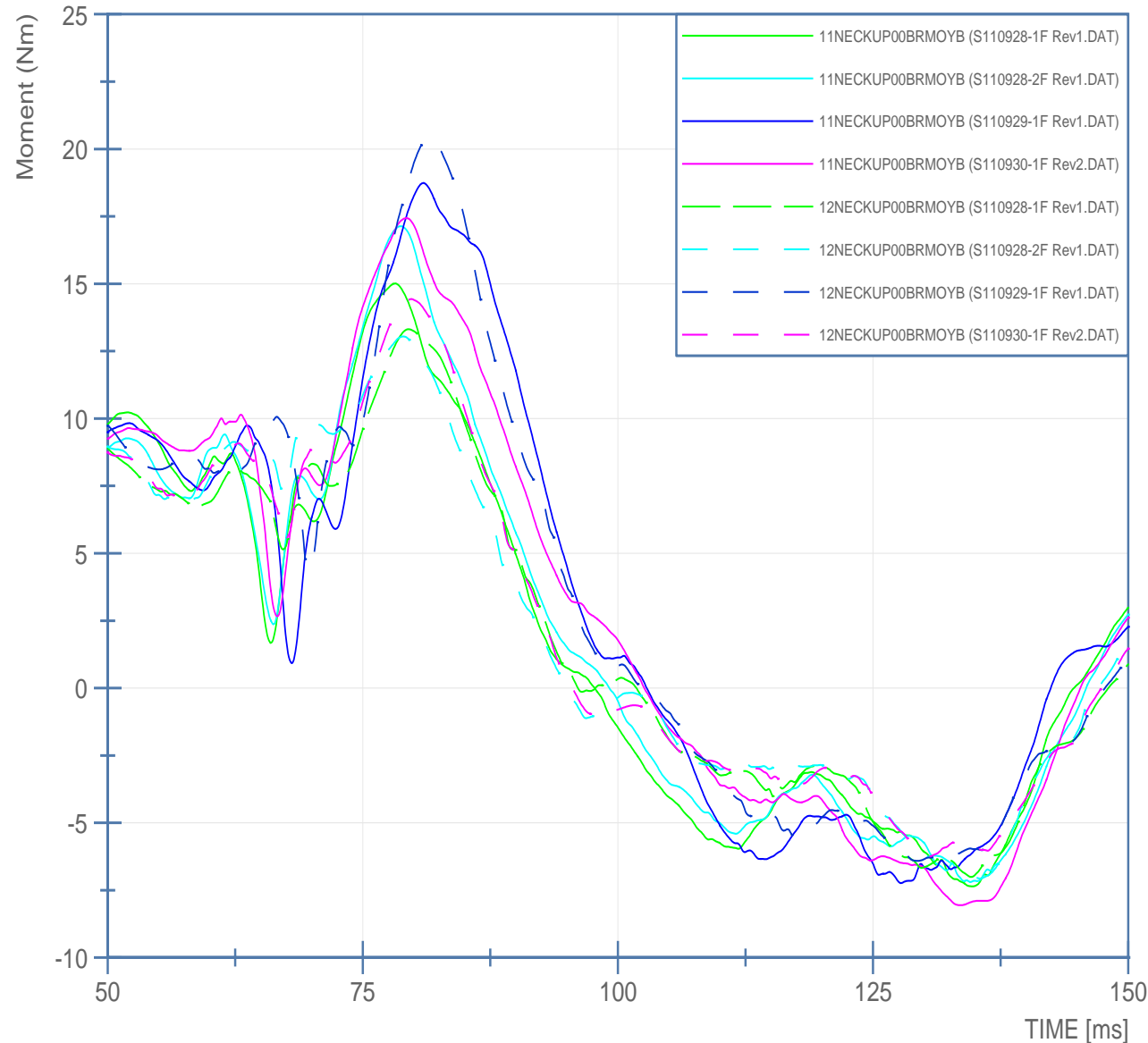


# Upper Neck My Result

► Difference seen by PDB not found

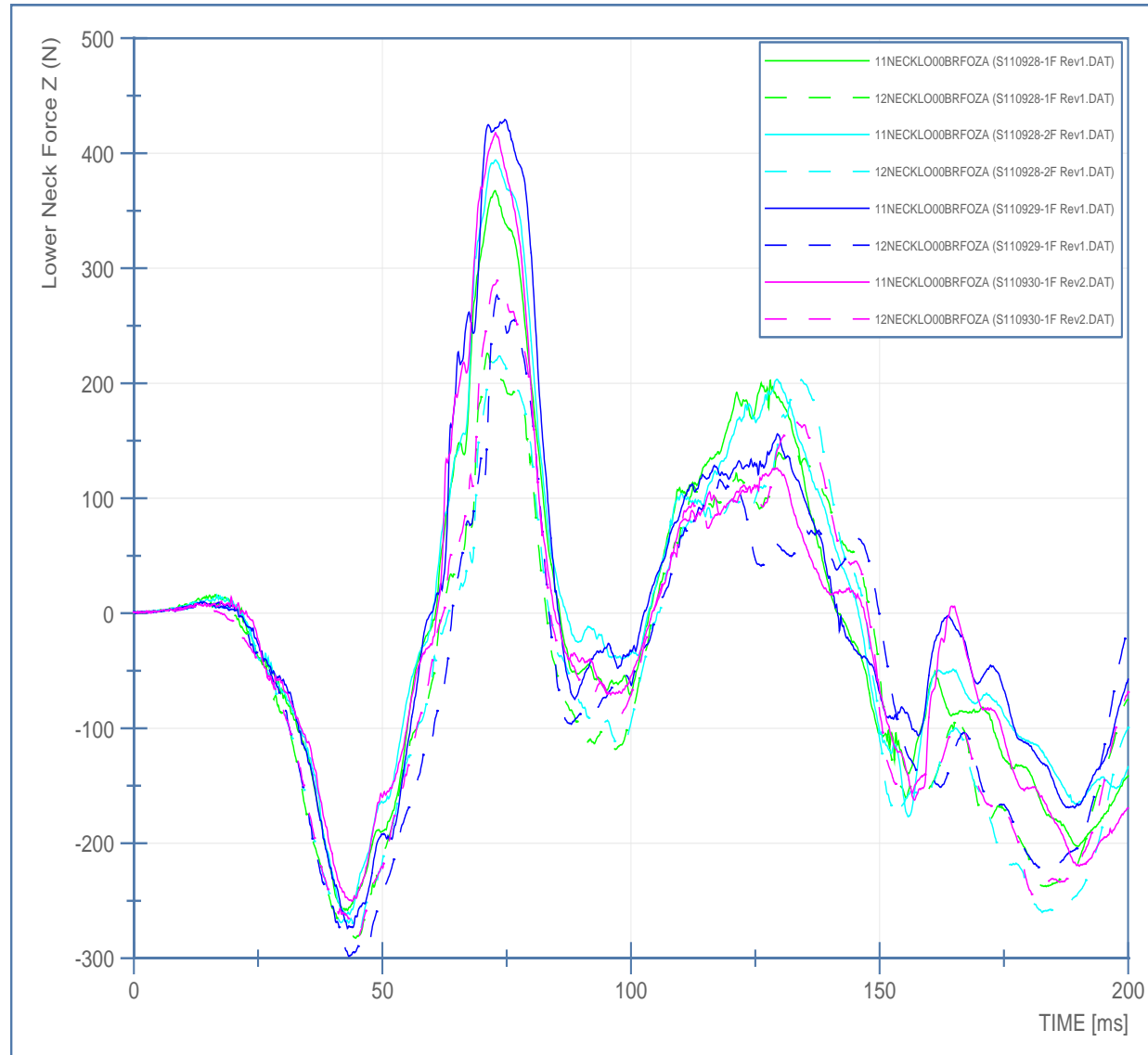


# Upper Neck My Result (zoomed)



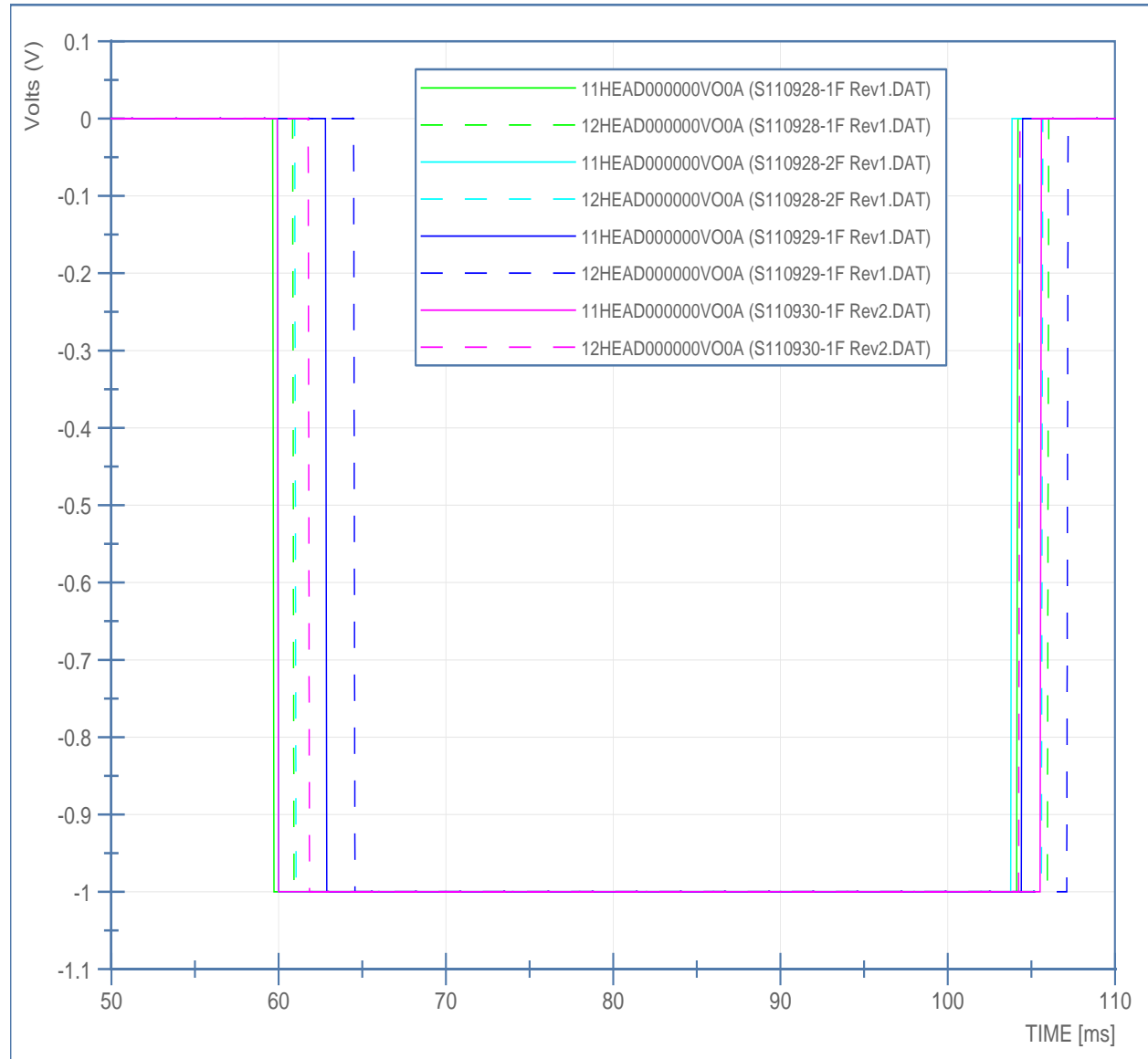
# Lower Neck Fz Result

► Difference seen by PDB not found





# Head Rest Contact



# Conclusion

- ▶ Difference in curve shape found by PDB could not be reproduced at VRTC
- ▶ Not possible to troubleshoot problem