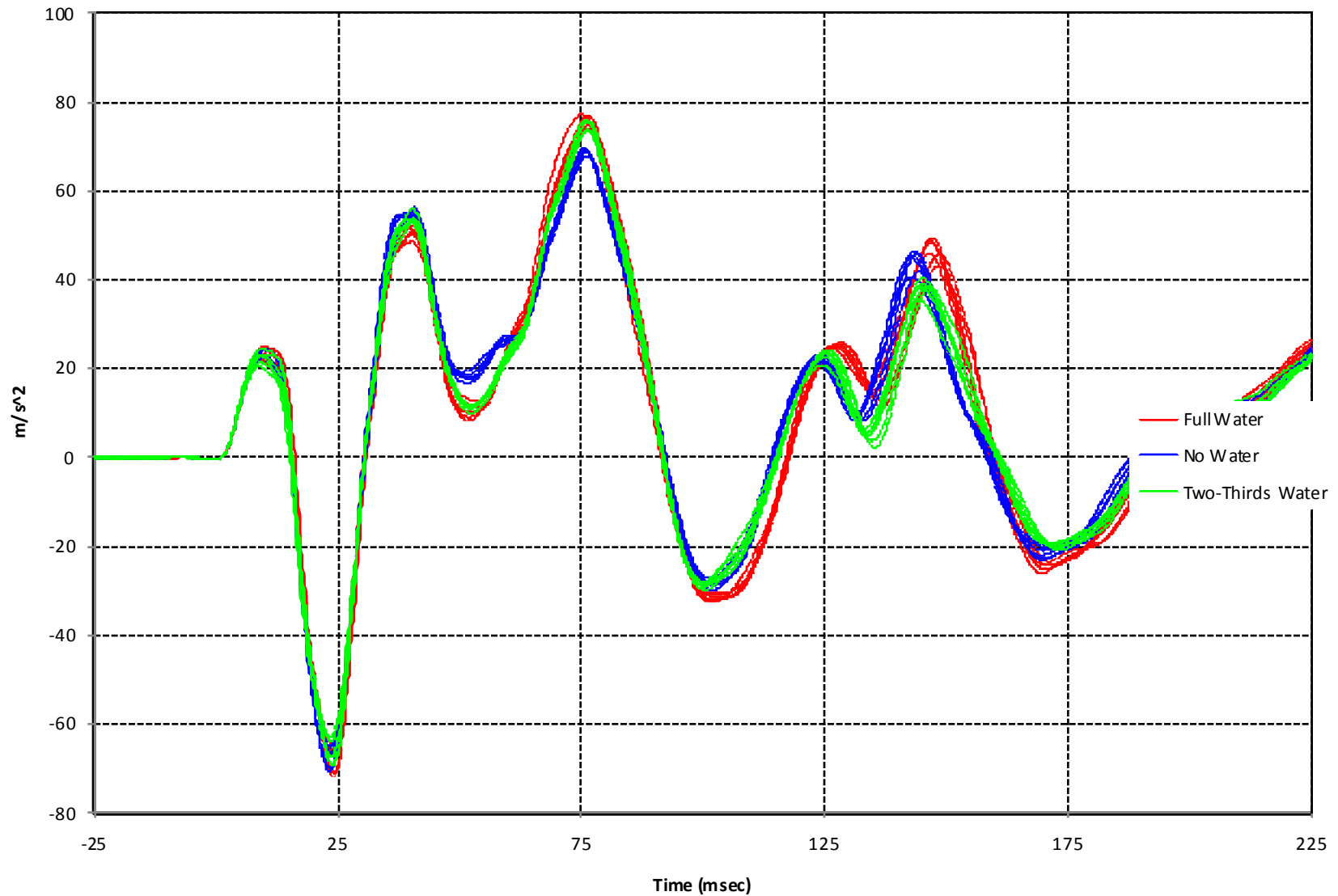


# Jacket Water Series

## Dummy Certification

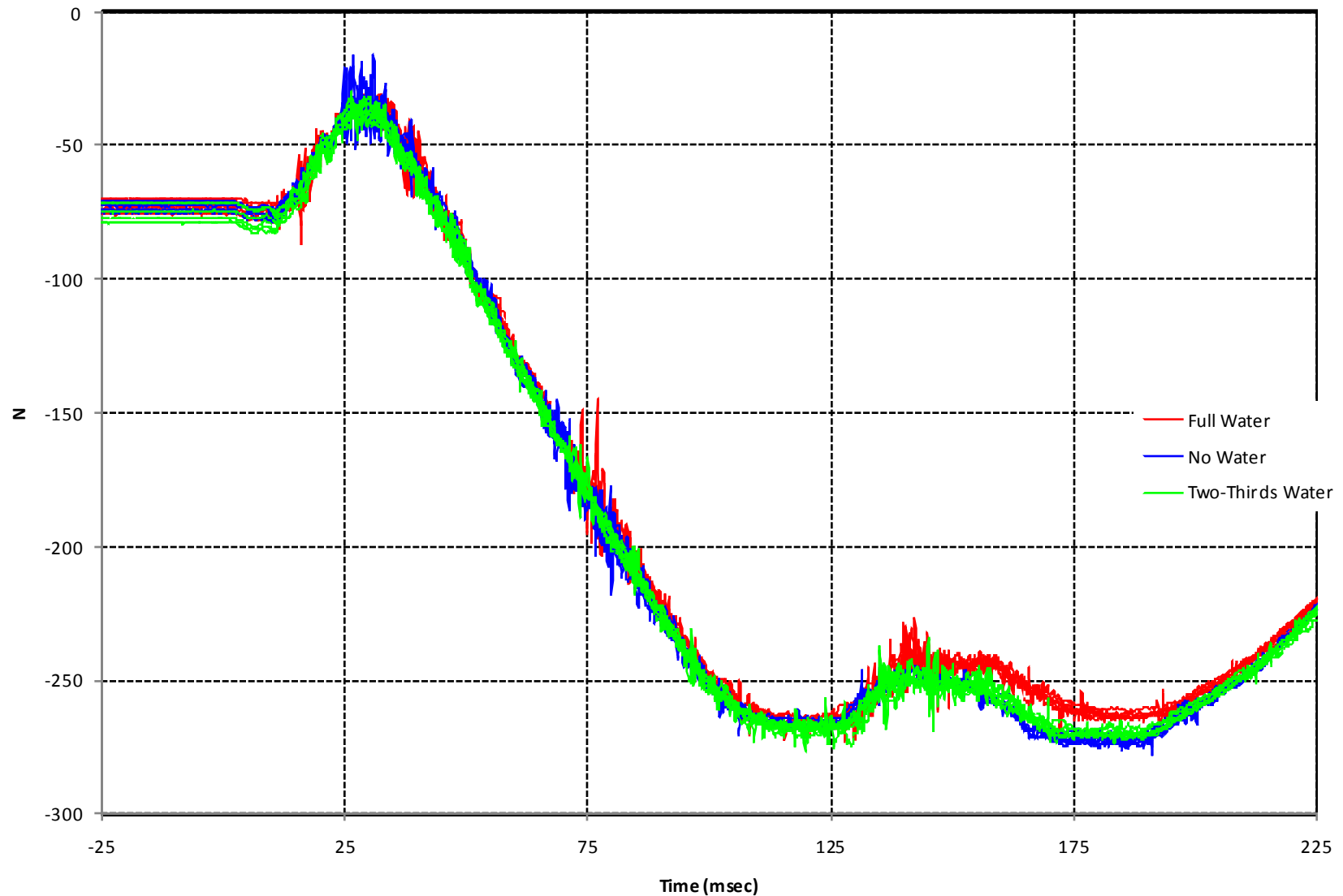
Head Z Acceleration



# Jacket Water Series

## Dummy Certification

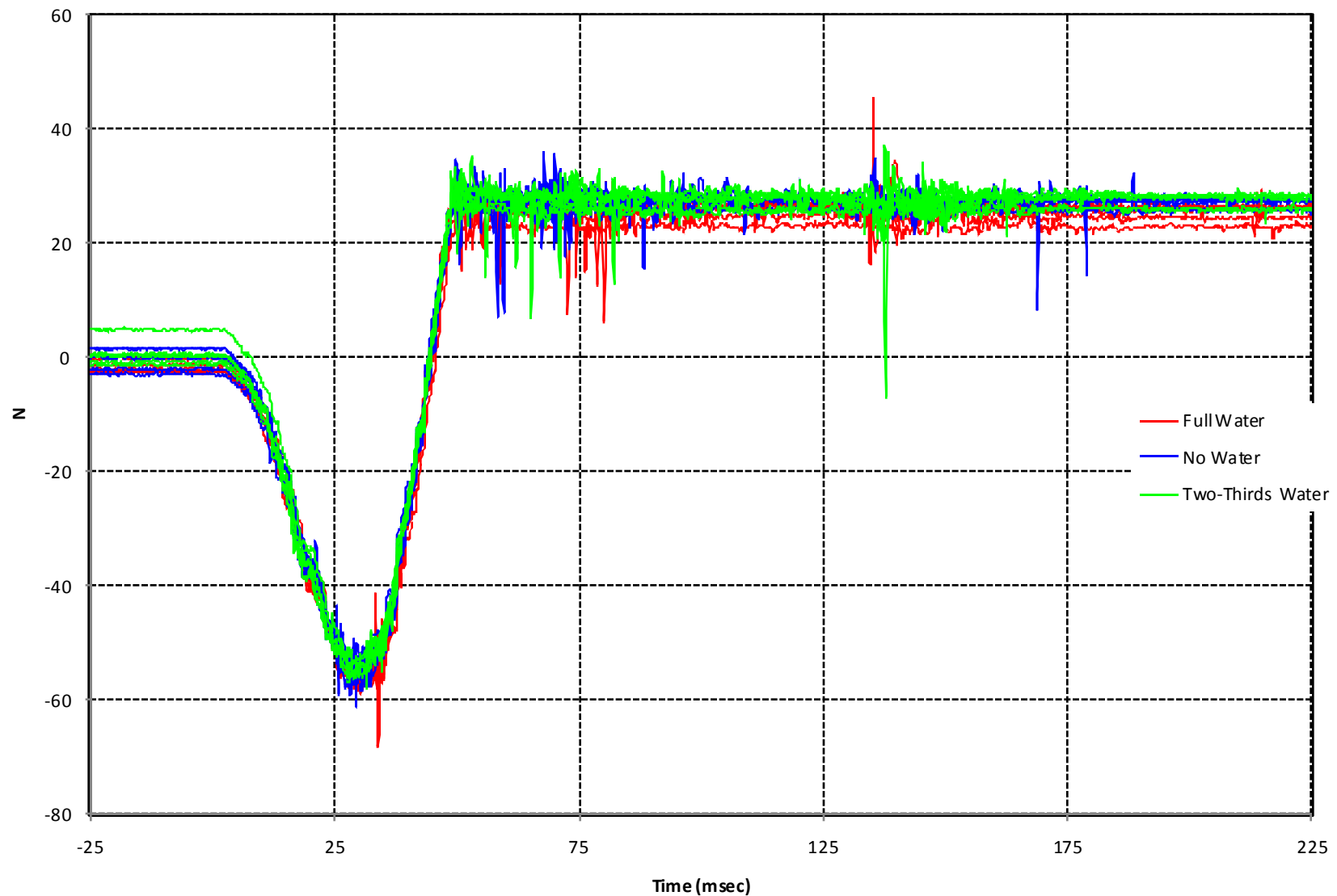
Posterior Muscle Tension (Short Tube)



# Jacket Water Series

## Dummy Certification

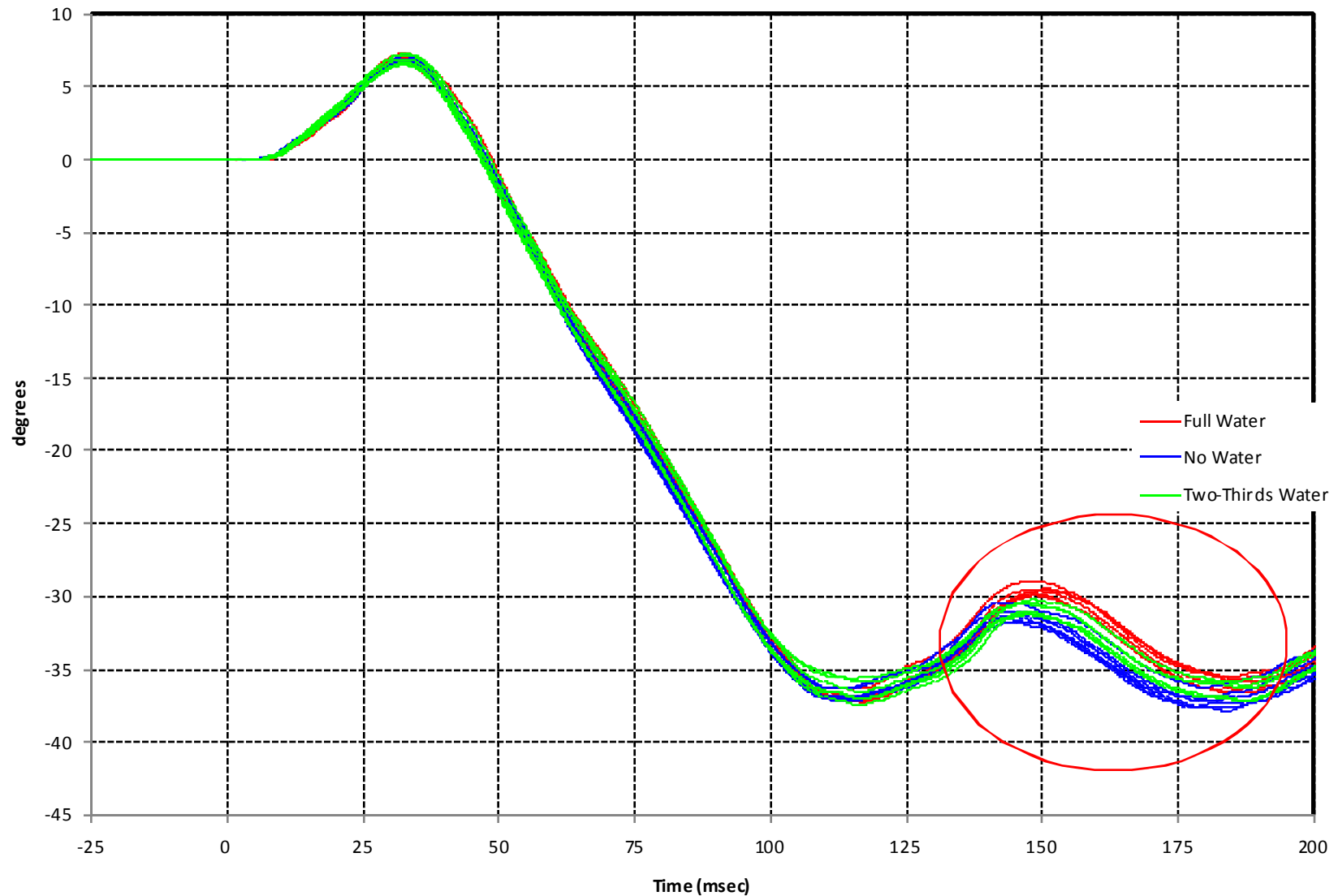
Anterior Muscle Tension (Long Tube)



# Jacket Water Series

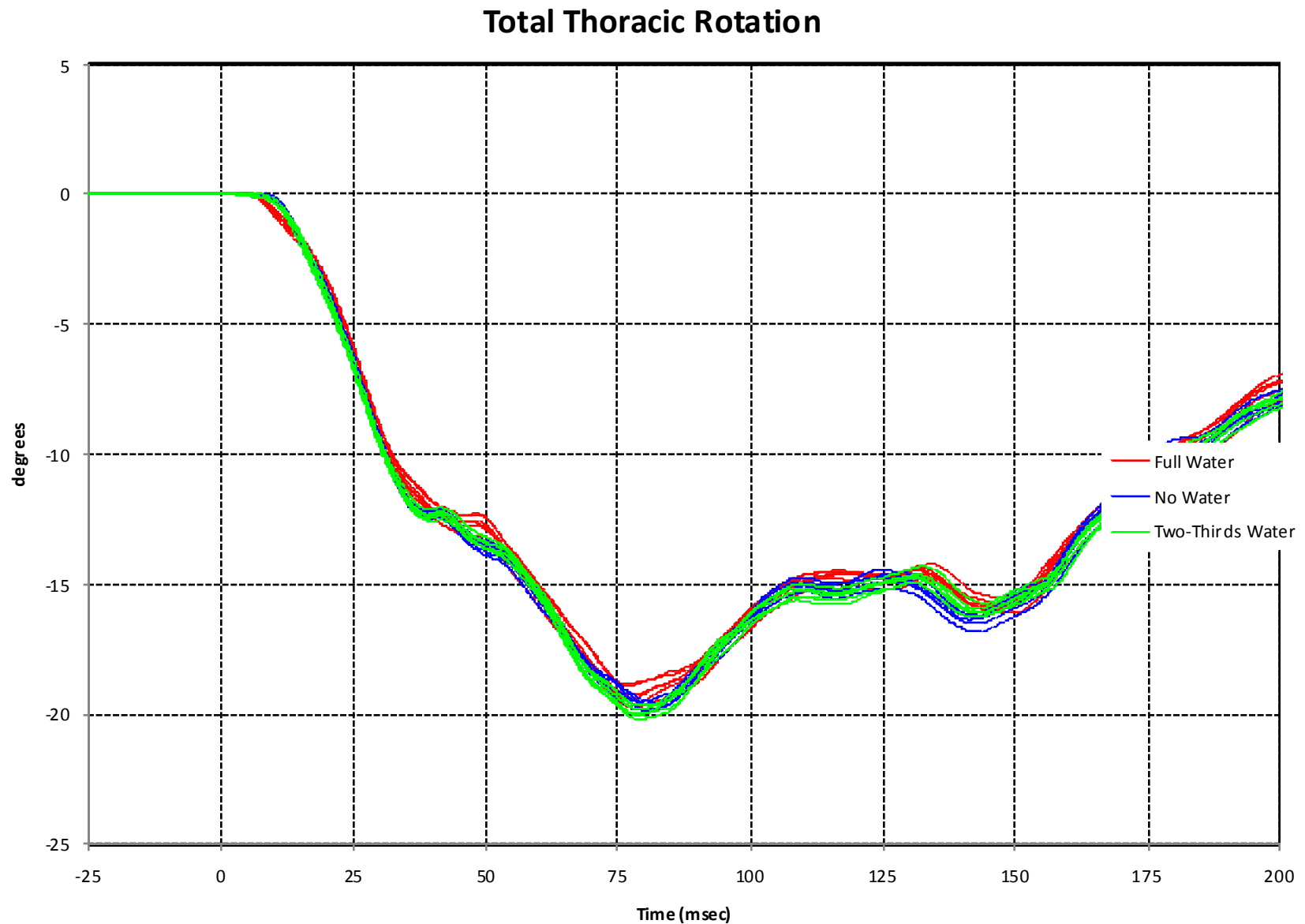
## Dummy Certification

Total Head Rotation about T1



# Jacket Water Series

## Dummy Certification



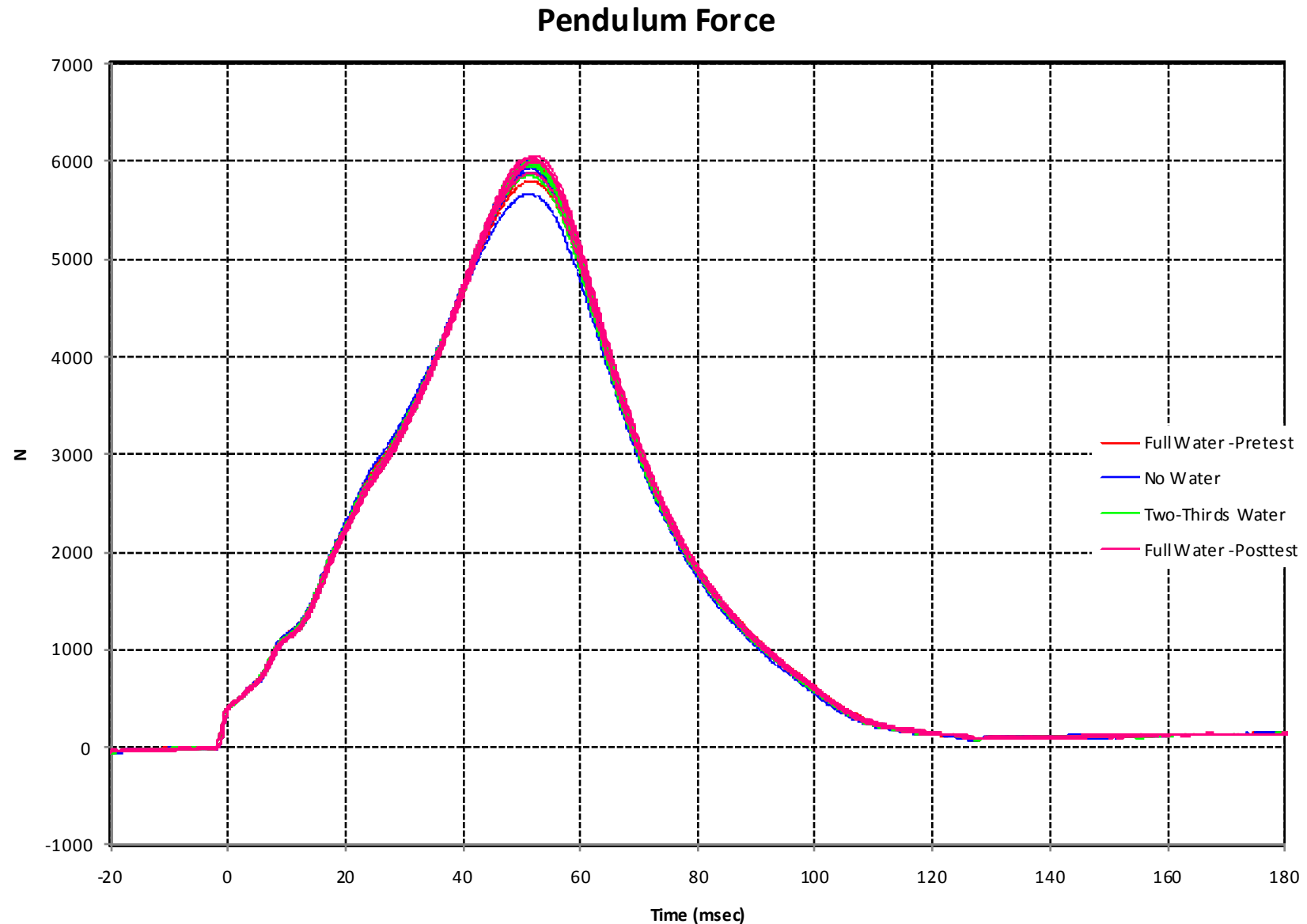
# Jacket Water Series

## Dummy Certification

- Conclusion from Dummy Certification
  - Water in the jacket appears to make small differences in curve shapes

# Jacket Water Series

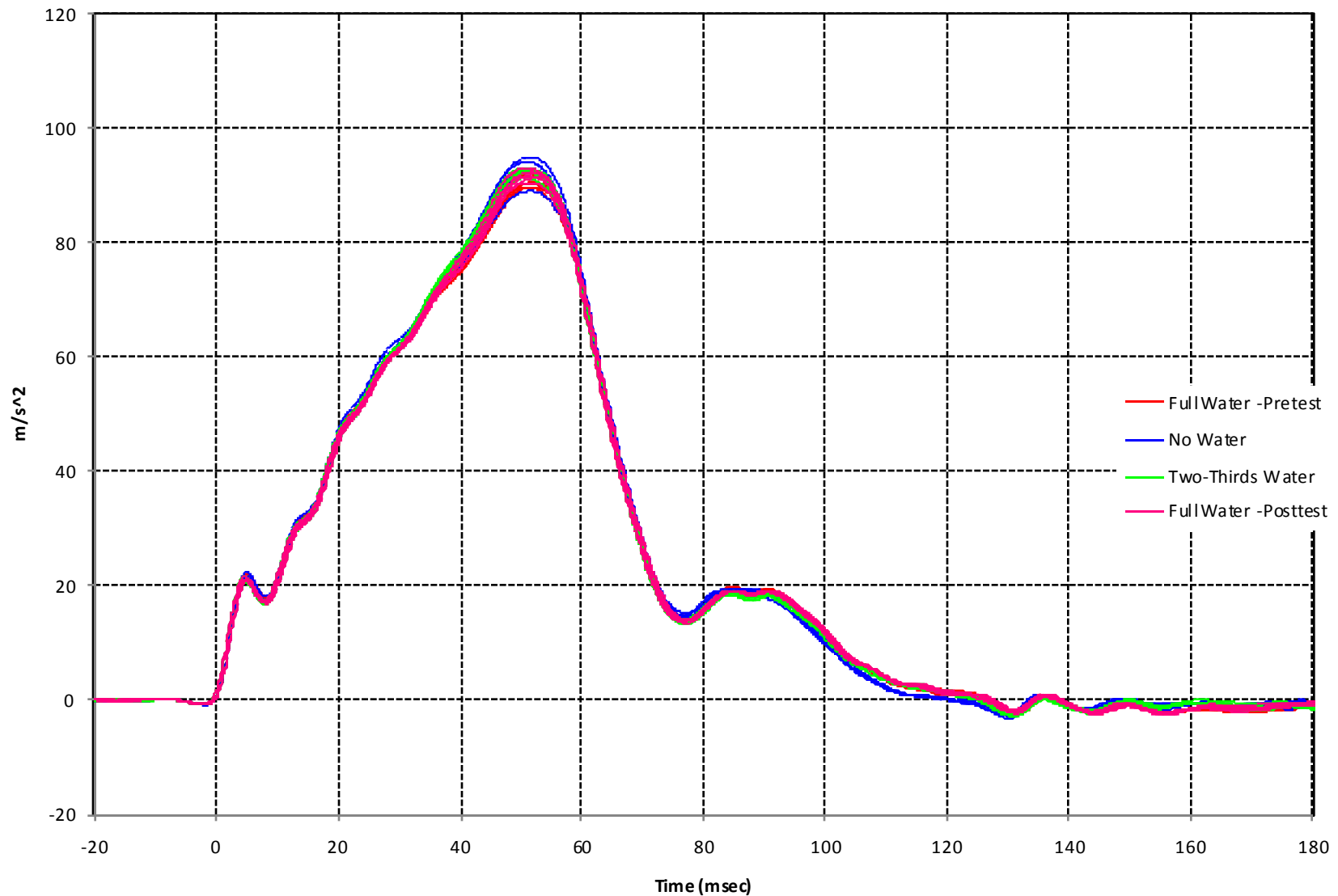
## Headrest Certification



# Jacket Water Series

## Headrest Certification

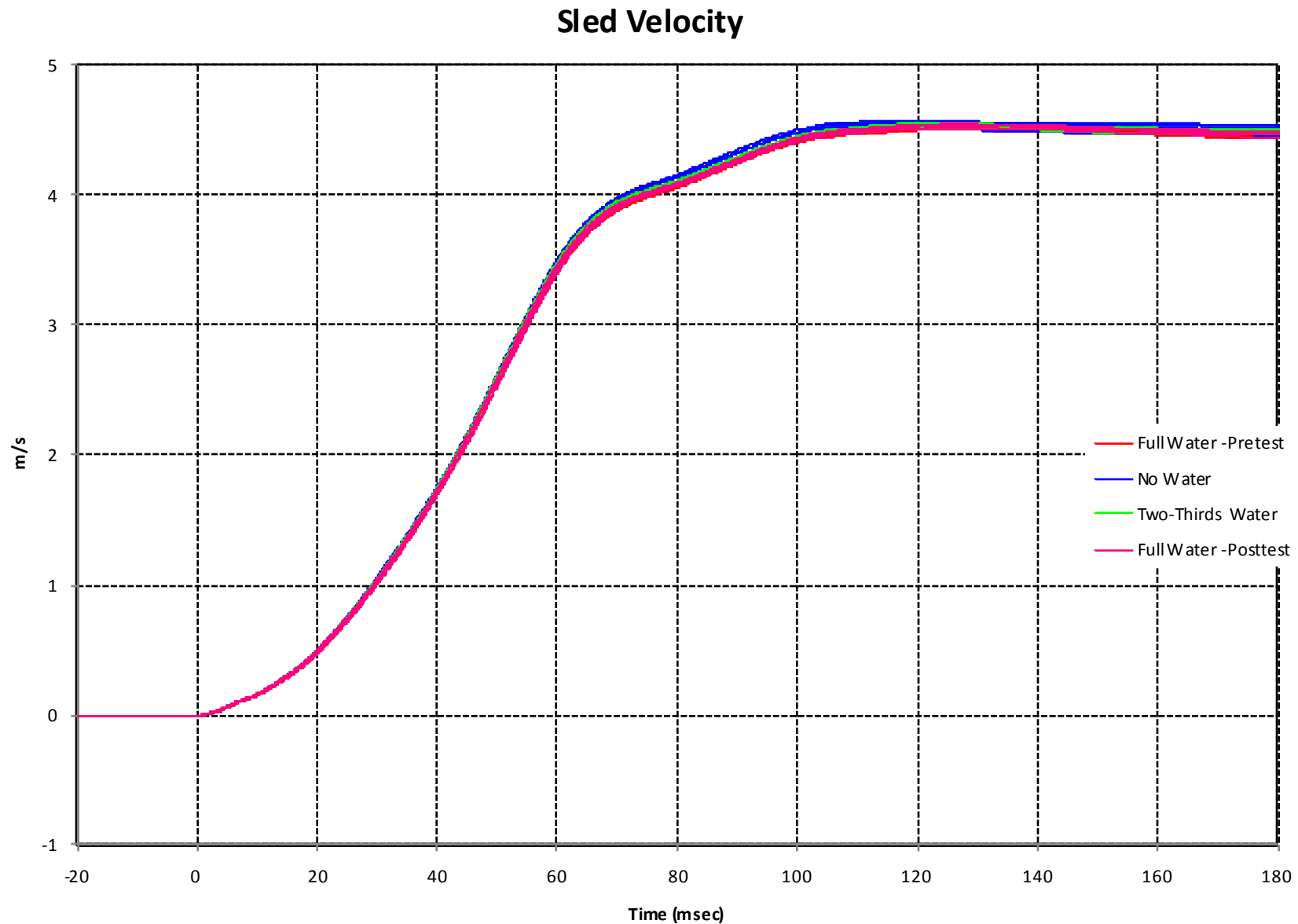
### Sled Acceleration





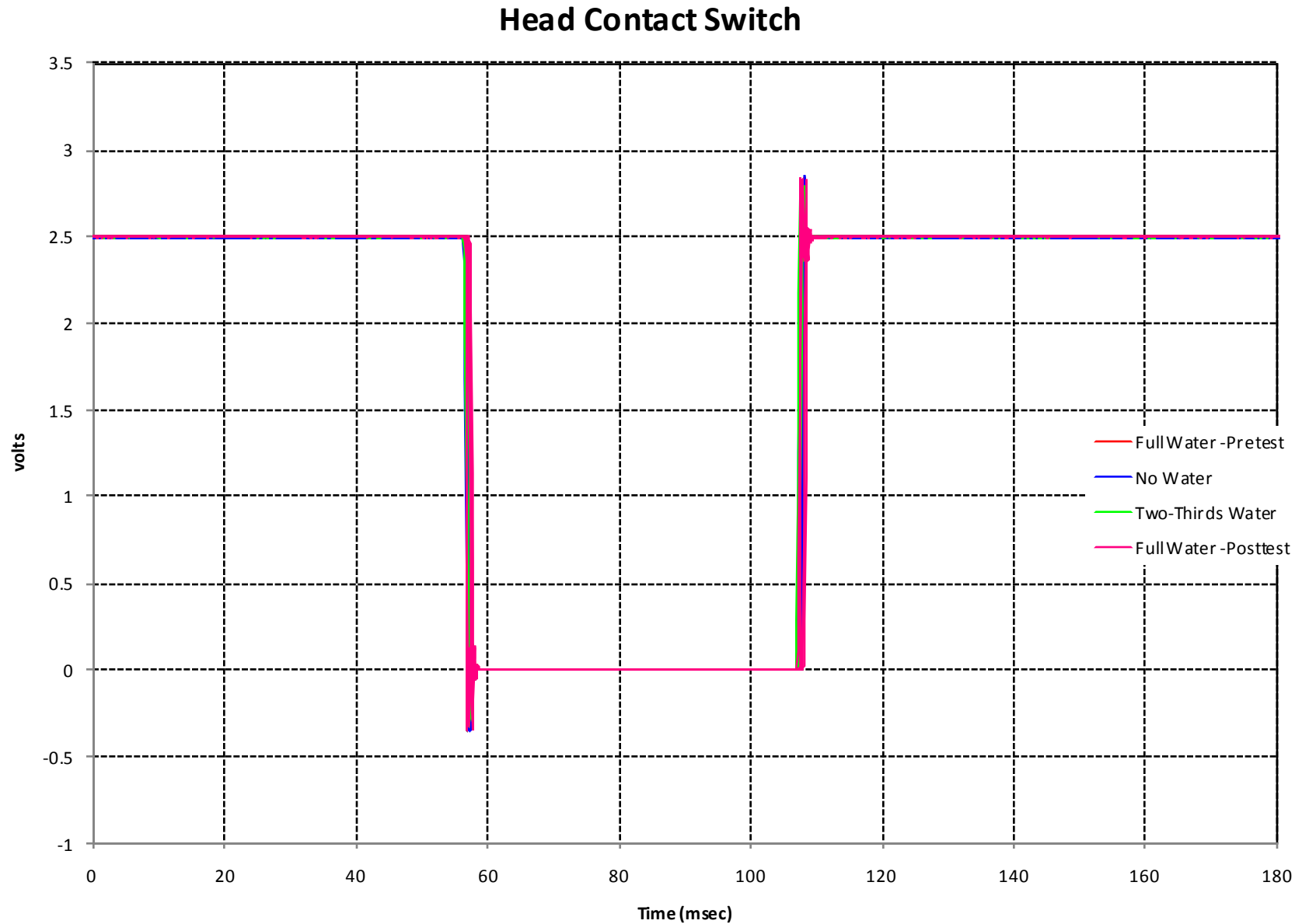
# Jacket Water Series

## Headrest Certification



# Jacket Water Series

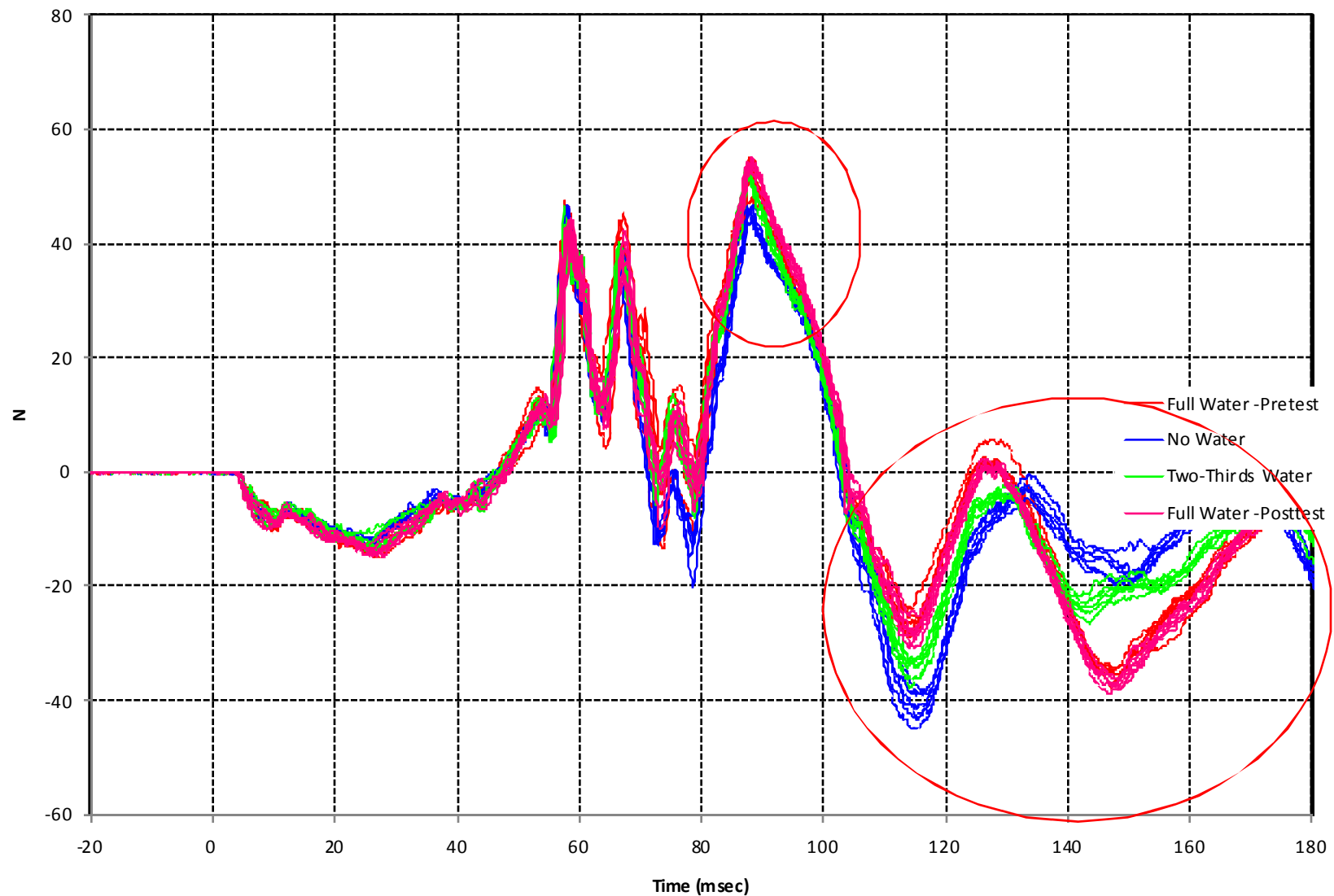
## Headrest Certification



# Jacket Water Series

## Headrest Certification

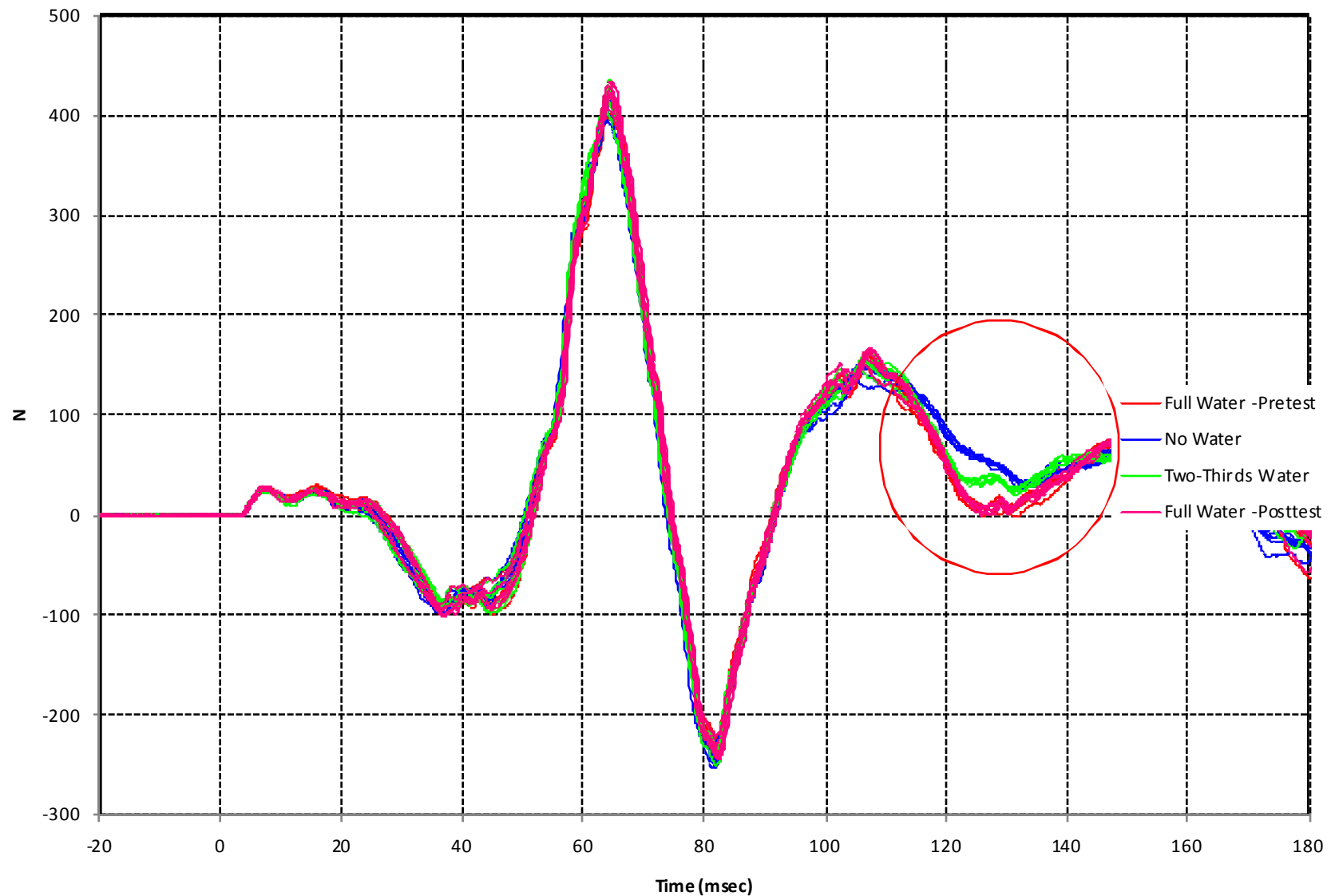
Upper Neck Force FX



# Jacket Water Series

## Headrest Certification

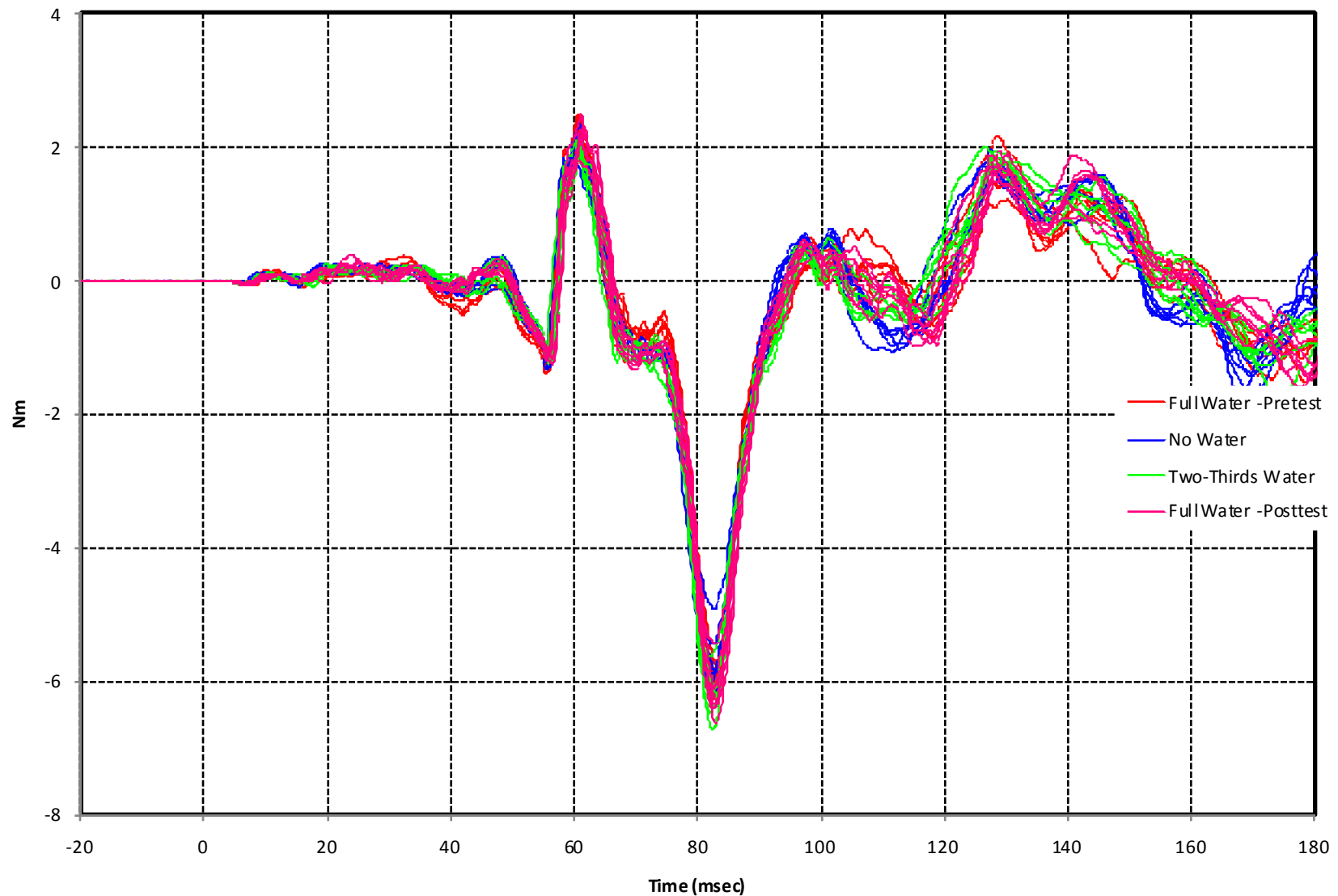
### Upper Neck Force FZ



# Jacket Water Series

## Headrest Certification

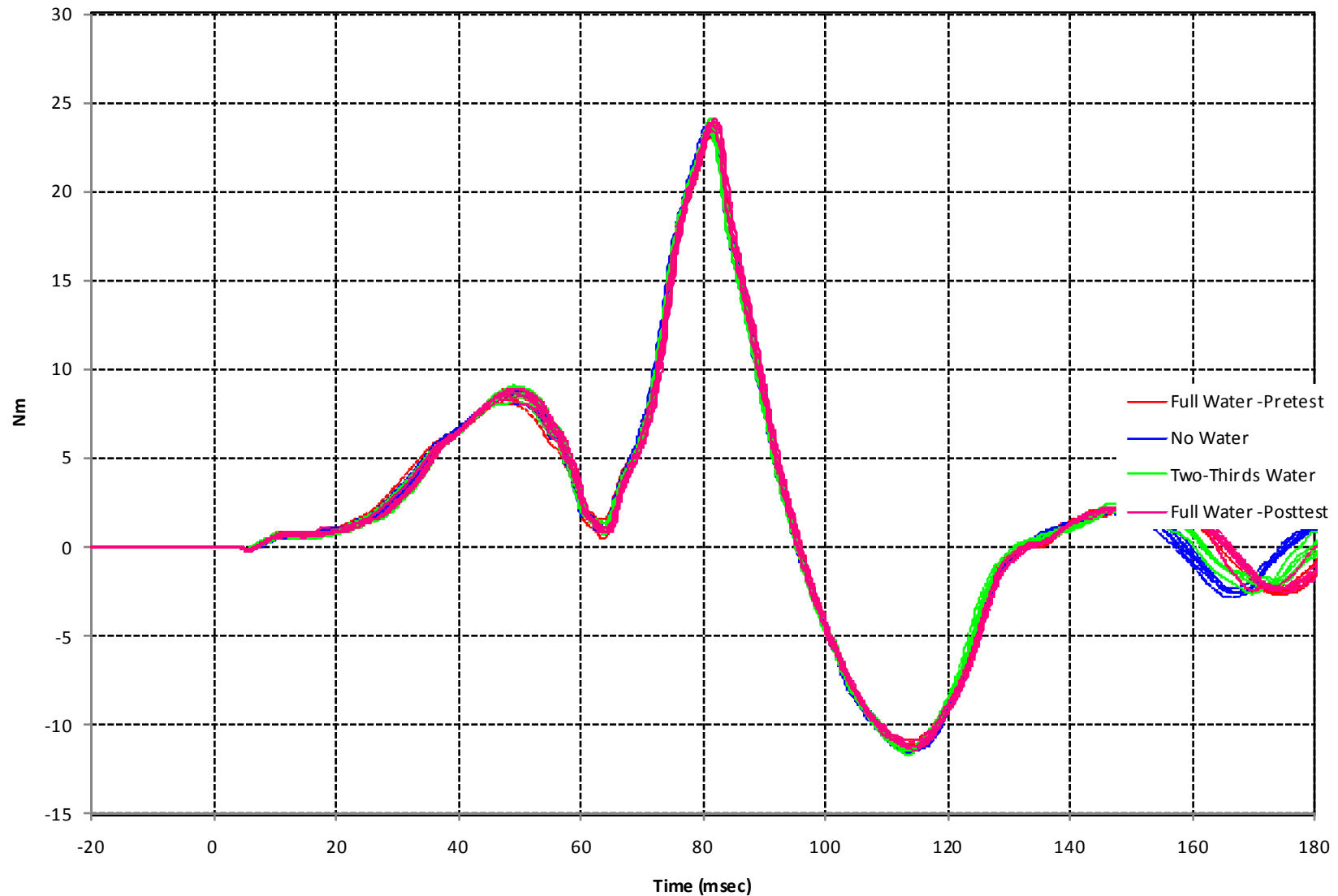
Upper Neck Moment MX



# Jacket Water Series

## Headrest Certification

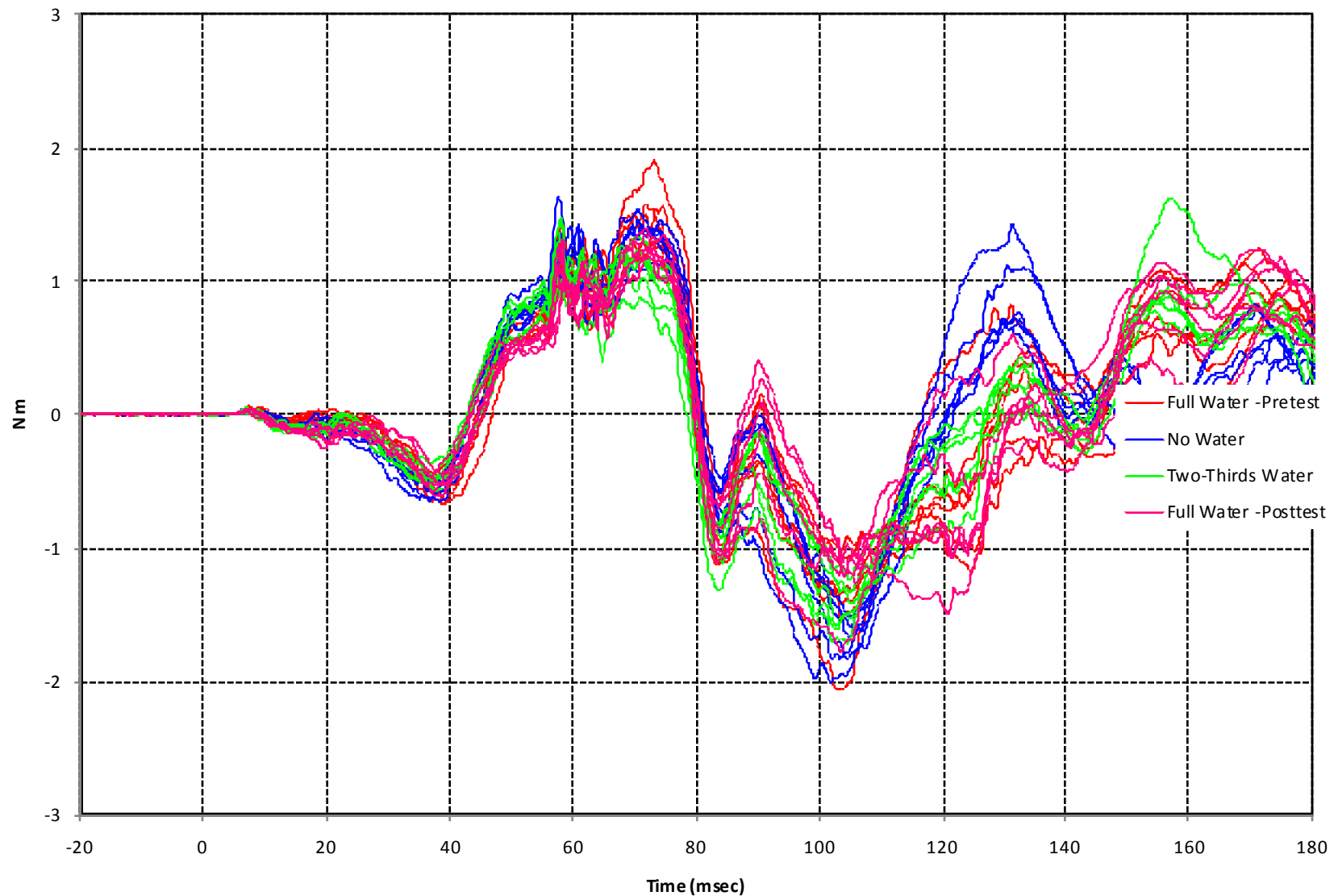
### Upper Neck Moment MY



# Jacket Water Series

## Headrest Certification

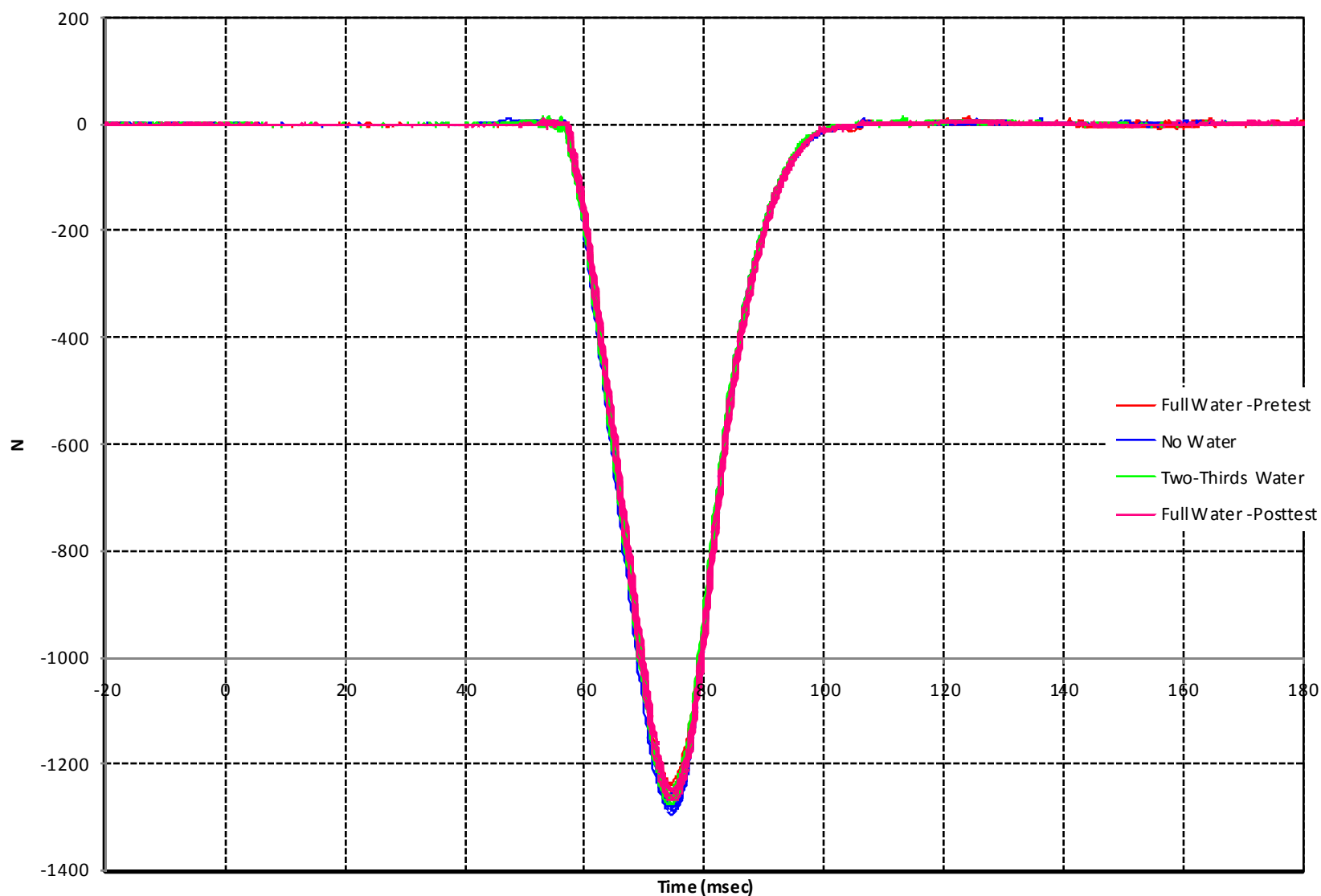
Upper Neck Moment MZ



# Jacket Water Series

## Headrest Certification

### Skull Cap FX

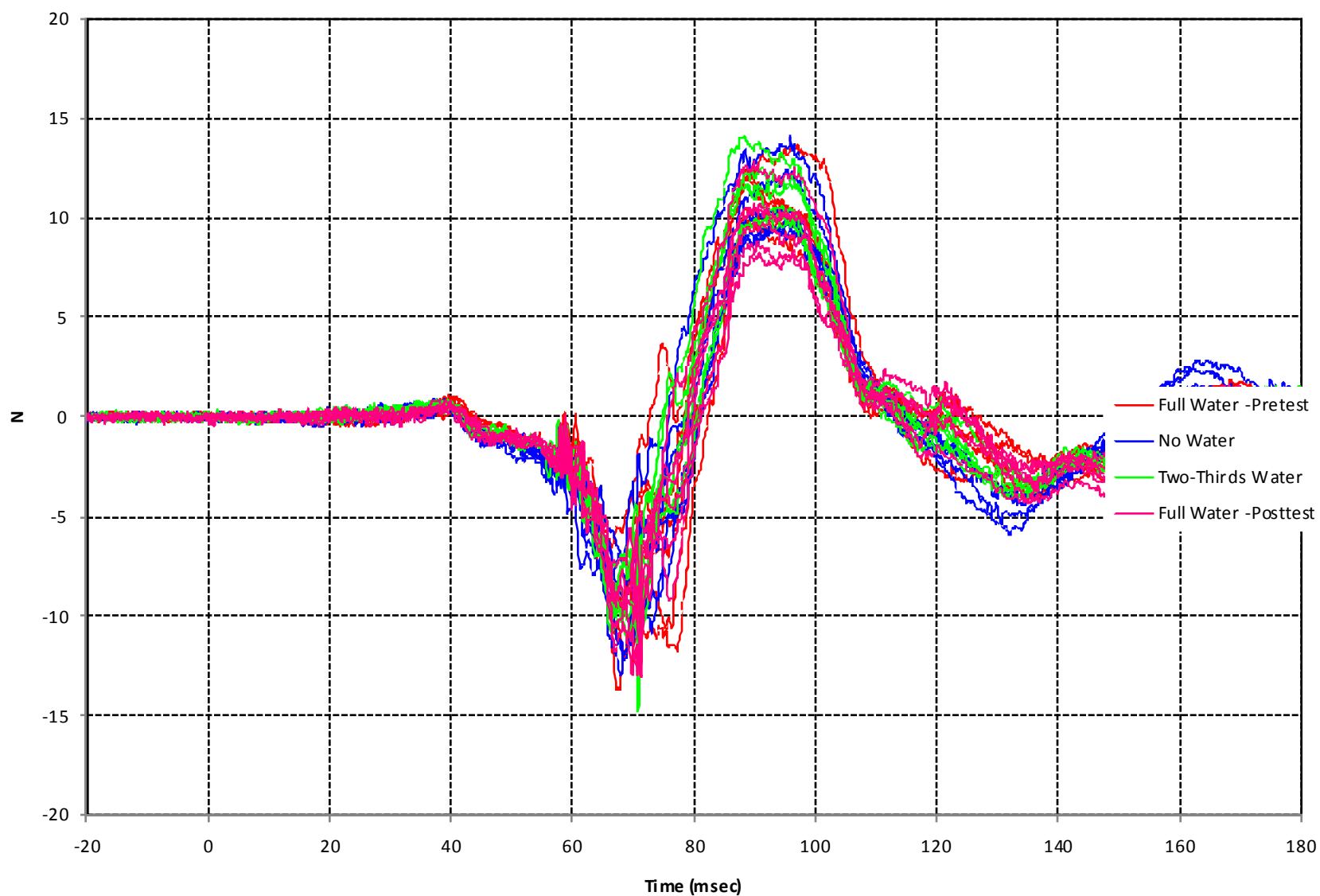




# Jacket Water Series

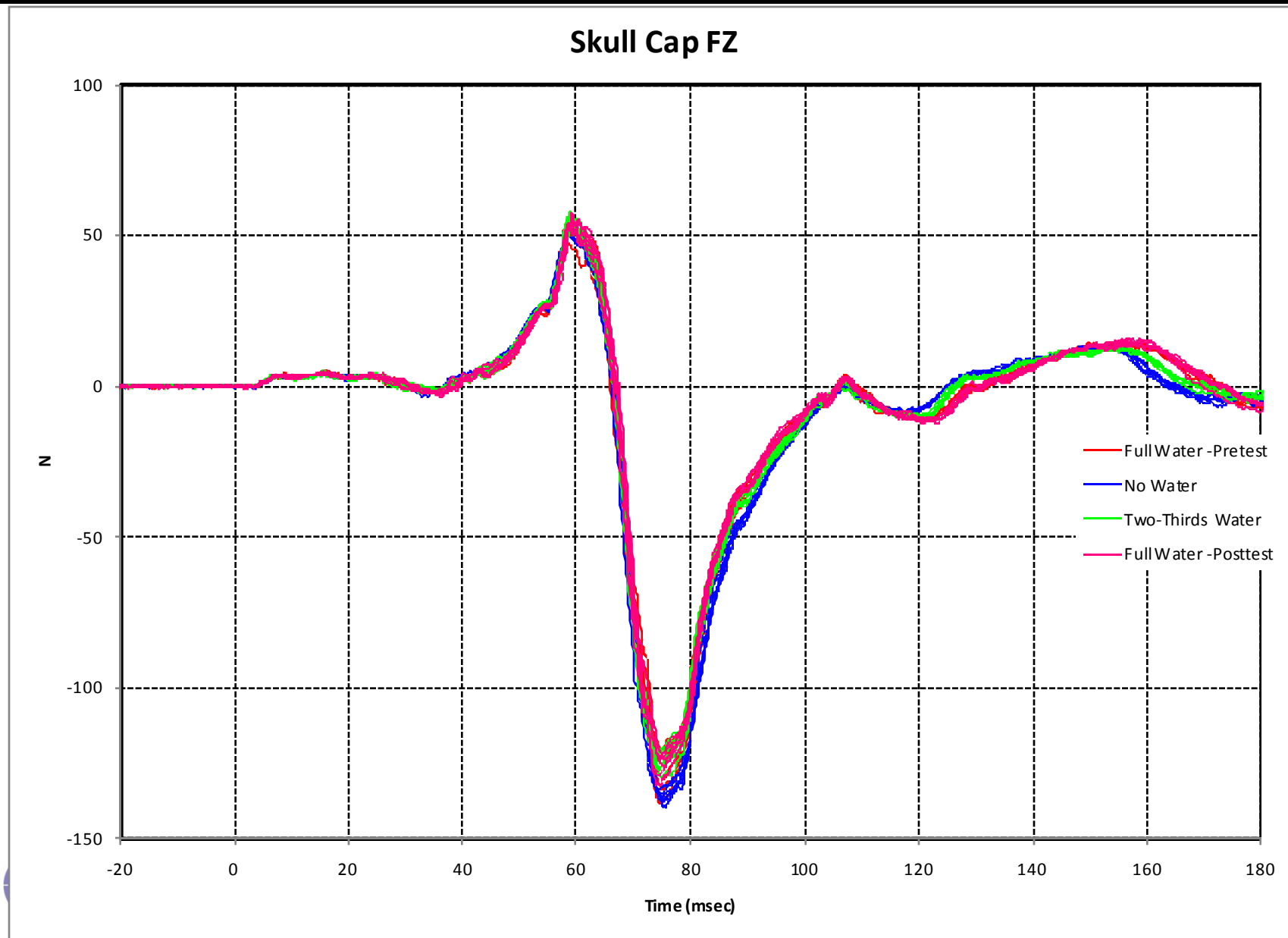
## Headrest Certification

Skull Cap FY



# Jacket Water Series

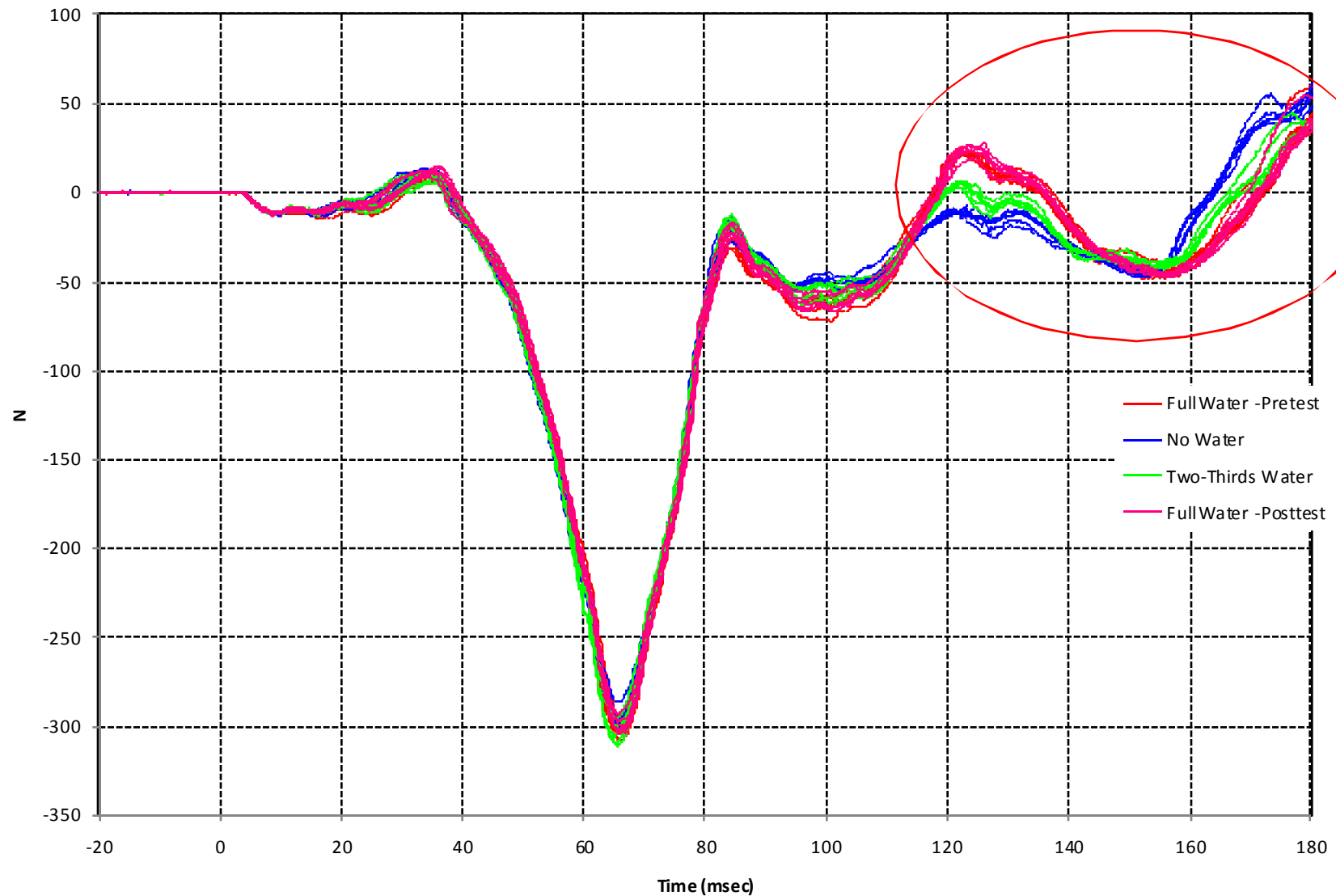
## Headrest Certification



# Jacket Water Series

## Headrest Certification

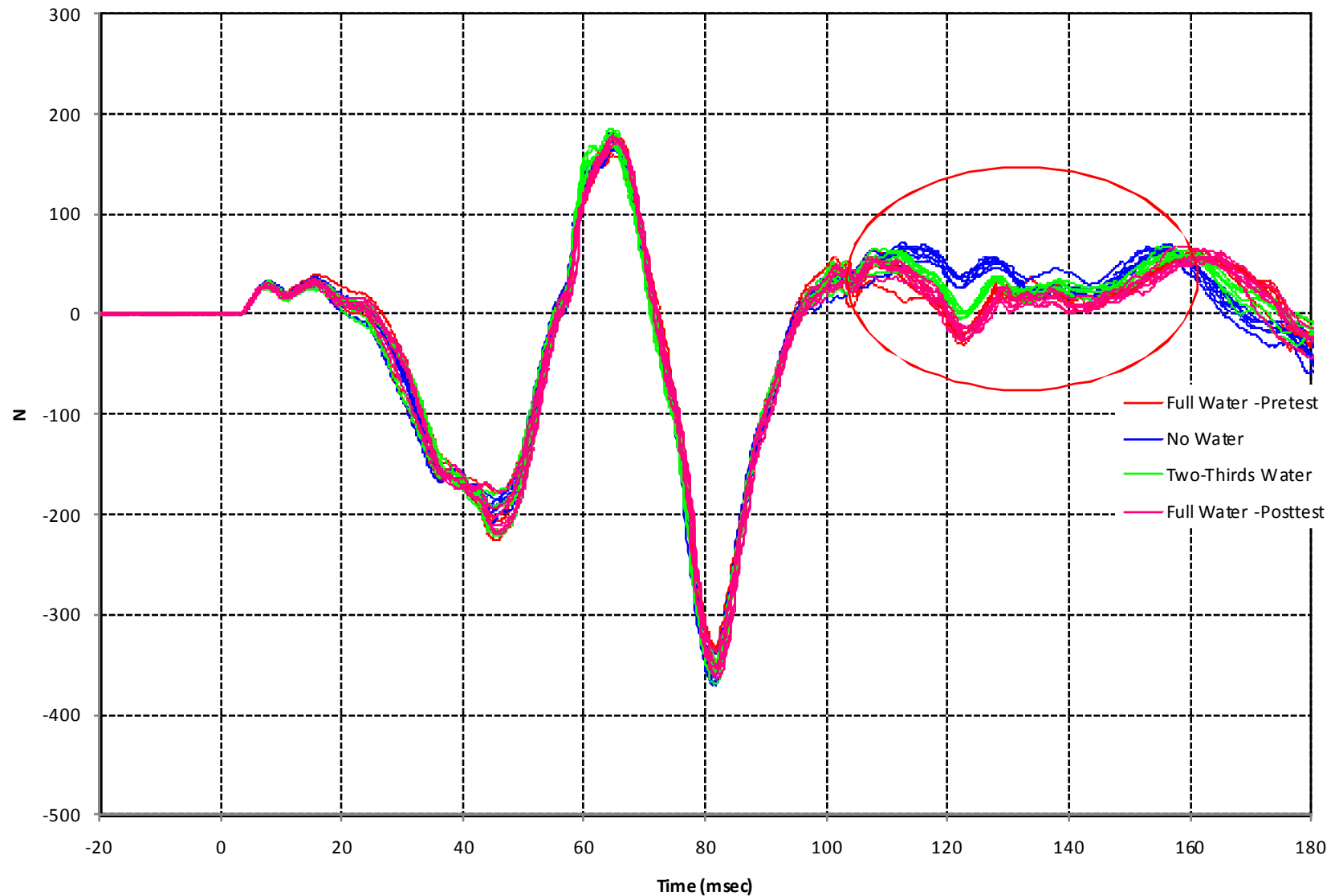
Lower Neck Force FX (T1 load Cell)



# Jacket Water Series

## Headrest Certification

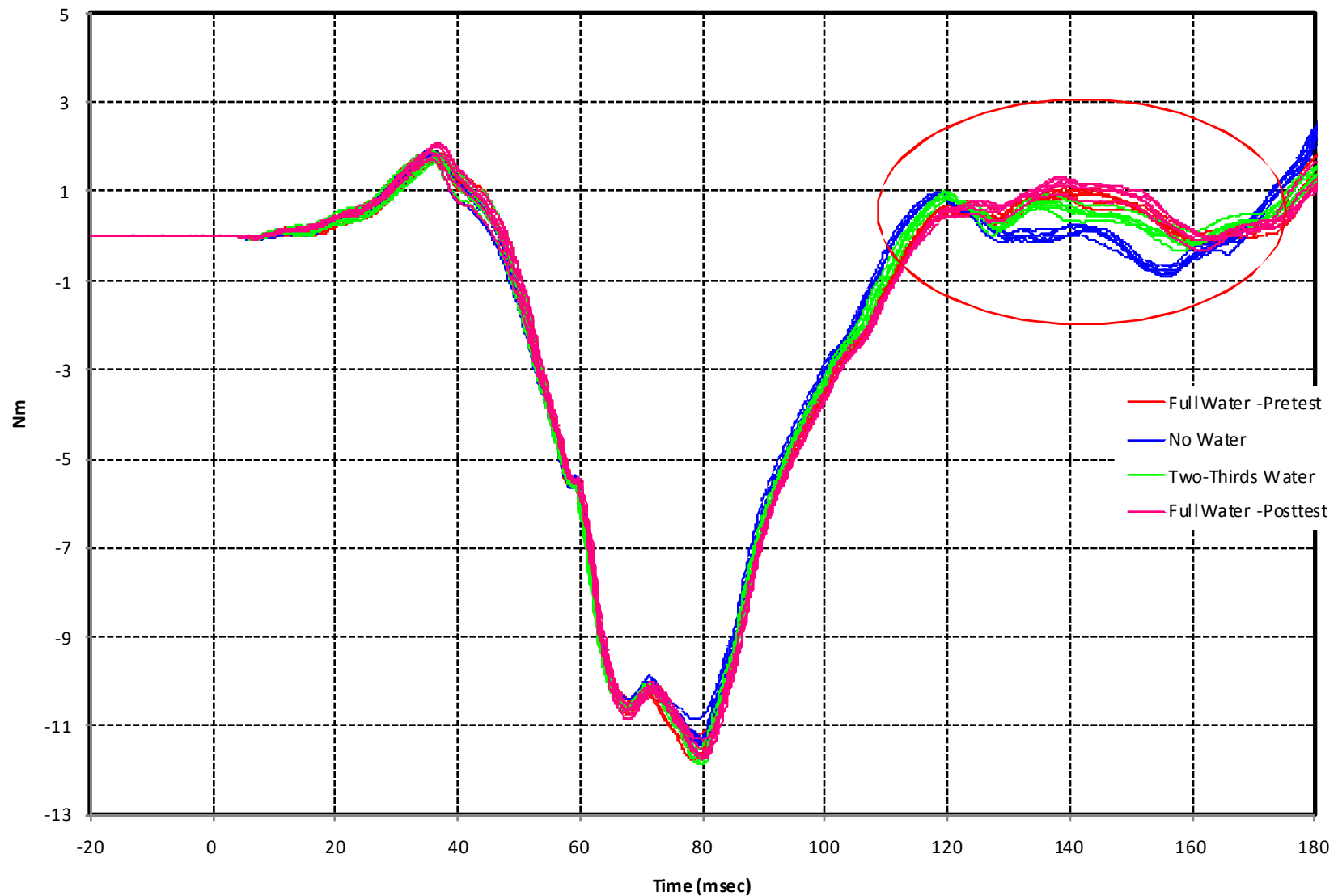
### Lower Neck Force FZ (T1 load Cell)



# Jacket Water Series

## Headrest Certification

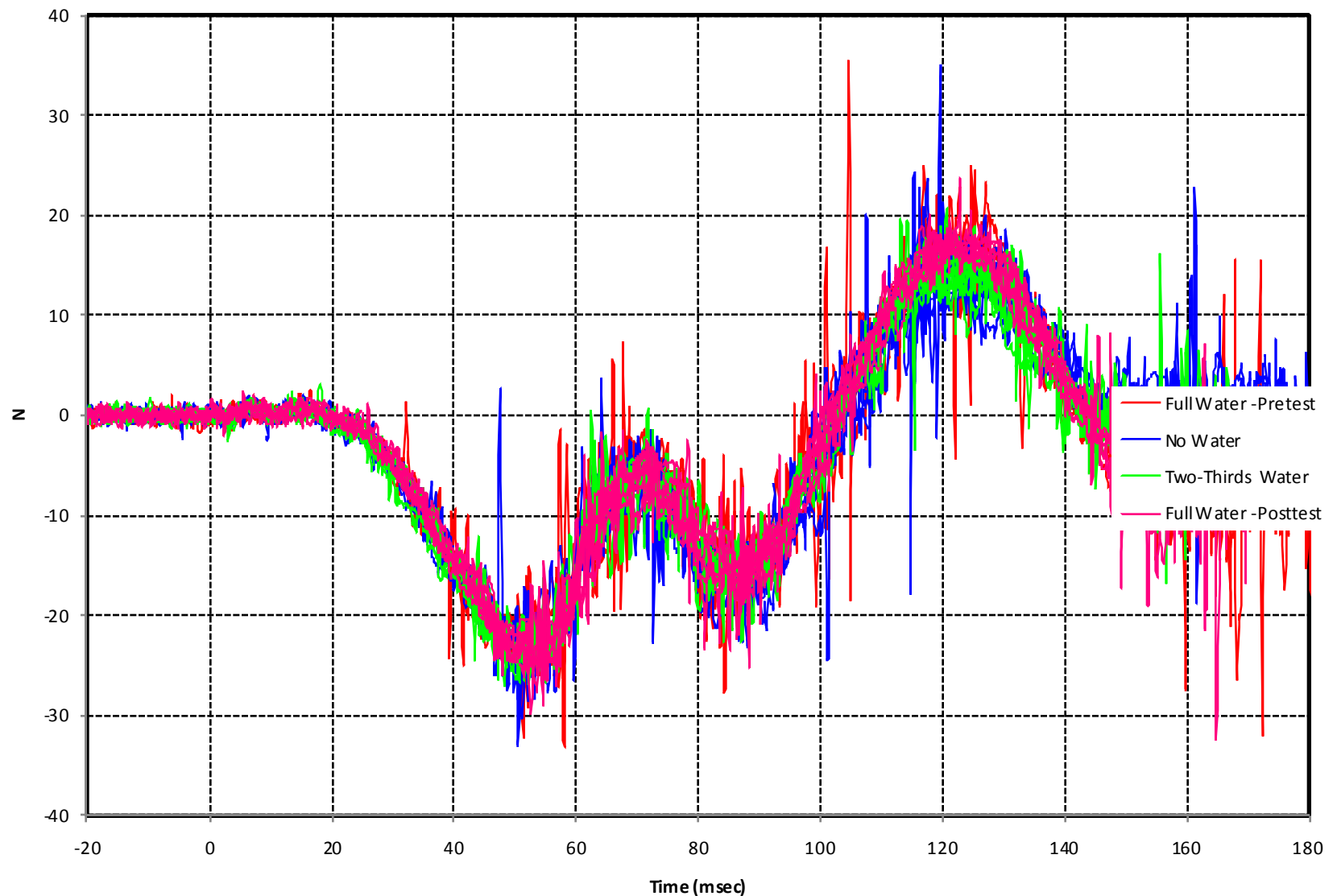
Lower Neck Moment MY (T1 Load Cell)



# Jacket Water Series

## Headrest Certification

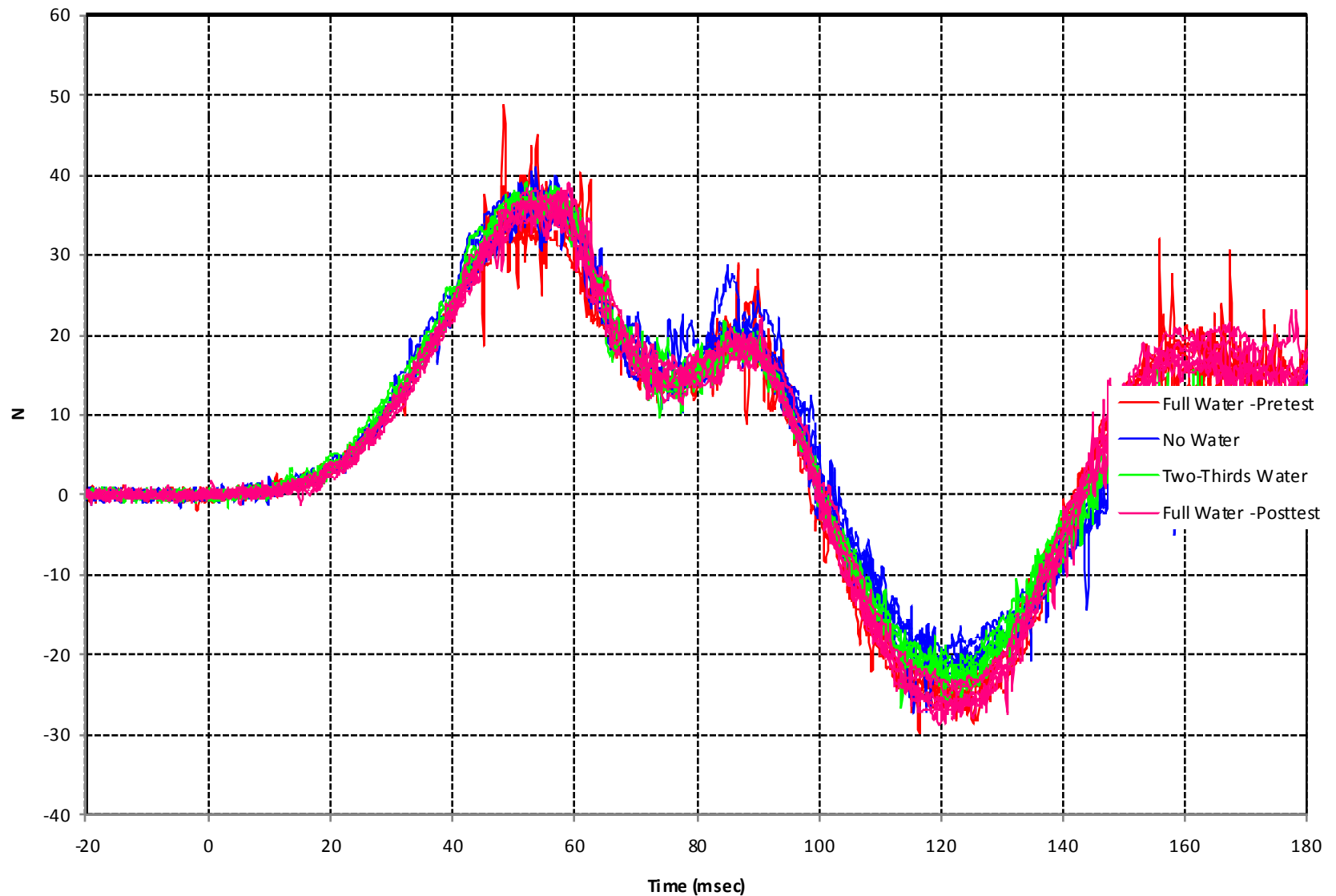
Posterior Muscle Tension - Small Tube



# Jacket Water Series

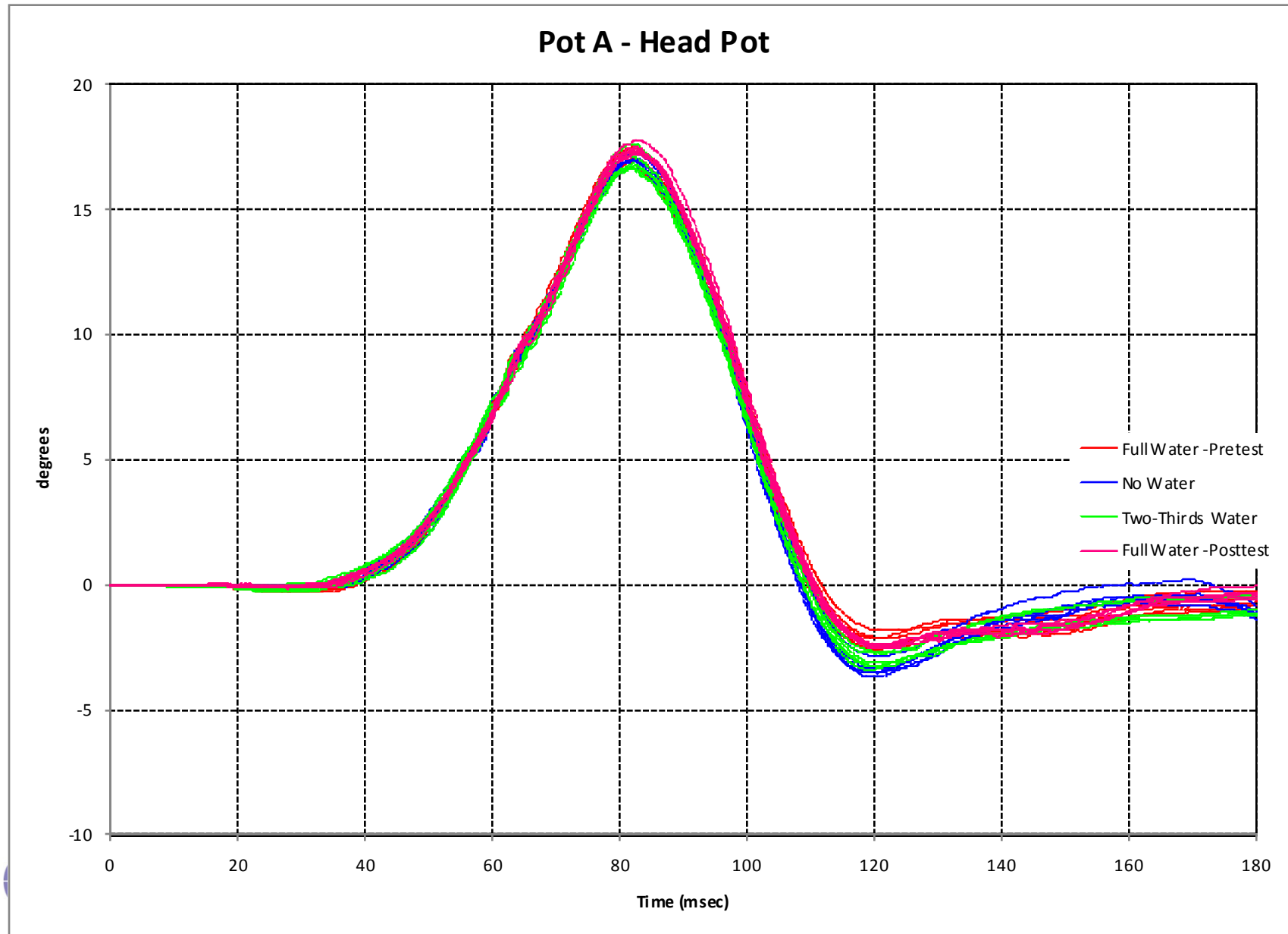
## Headrest Certification

### Anterior Muscle Tension - Long Tube



# Jacket Water Series

## Headrest Certification

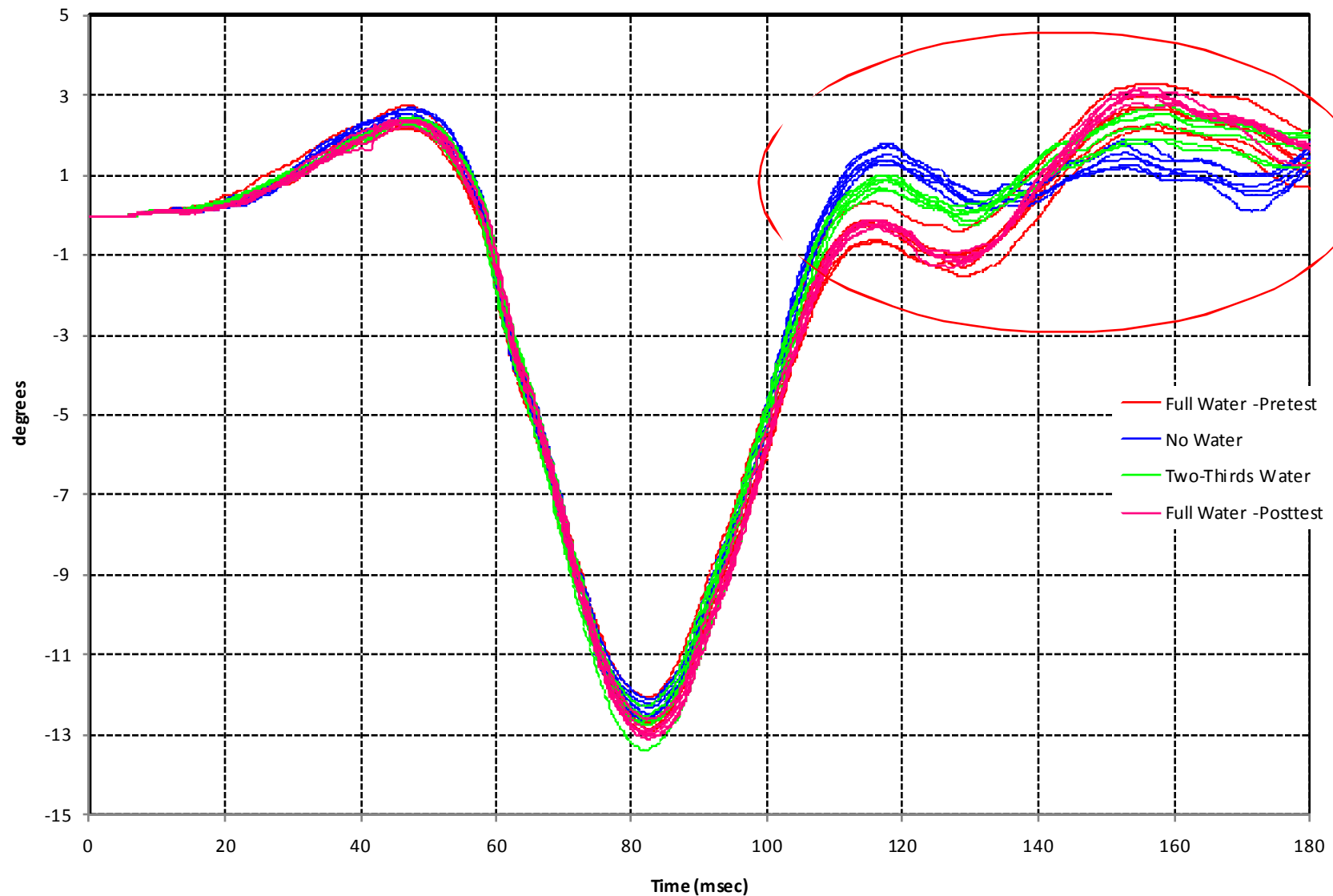




# Jacket Water Series

## Headrest Certification

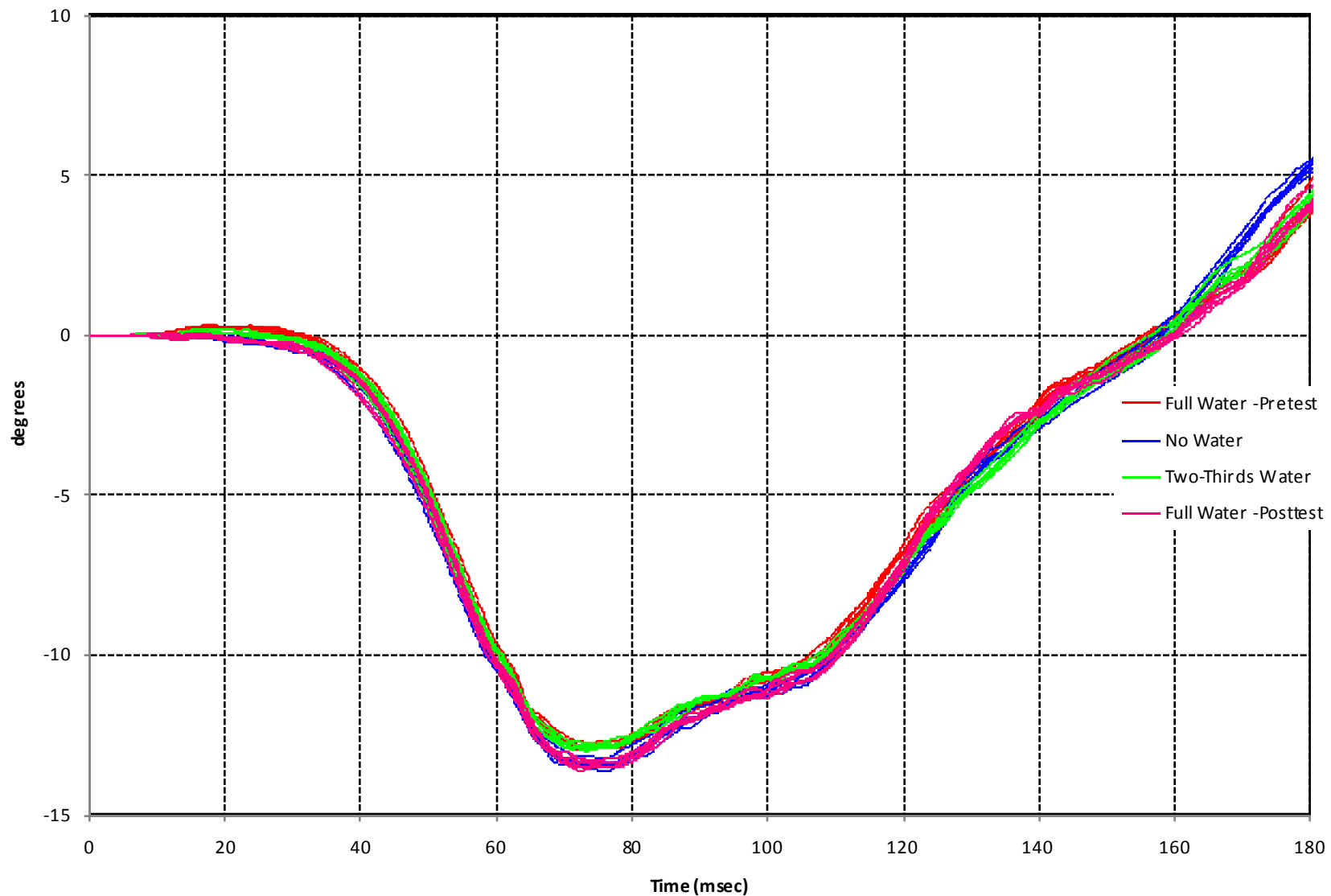
Pot B - Neck Link Pot



# Jacket Water Series

## Headrest Certification

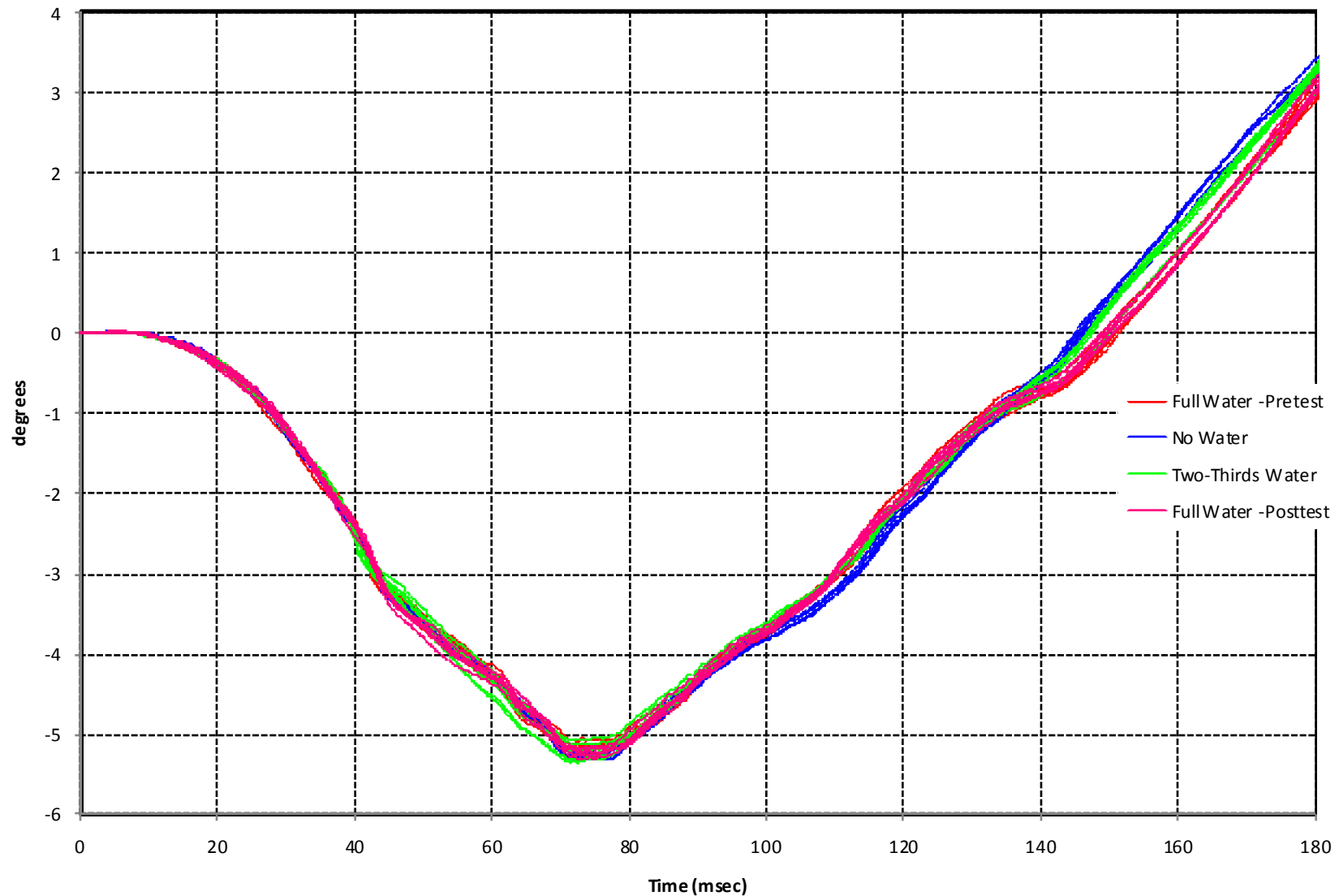
Pot C - T1 Pot



# Jacket Water Series

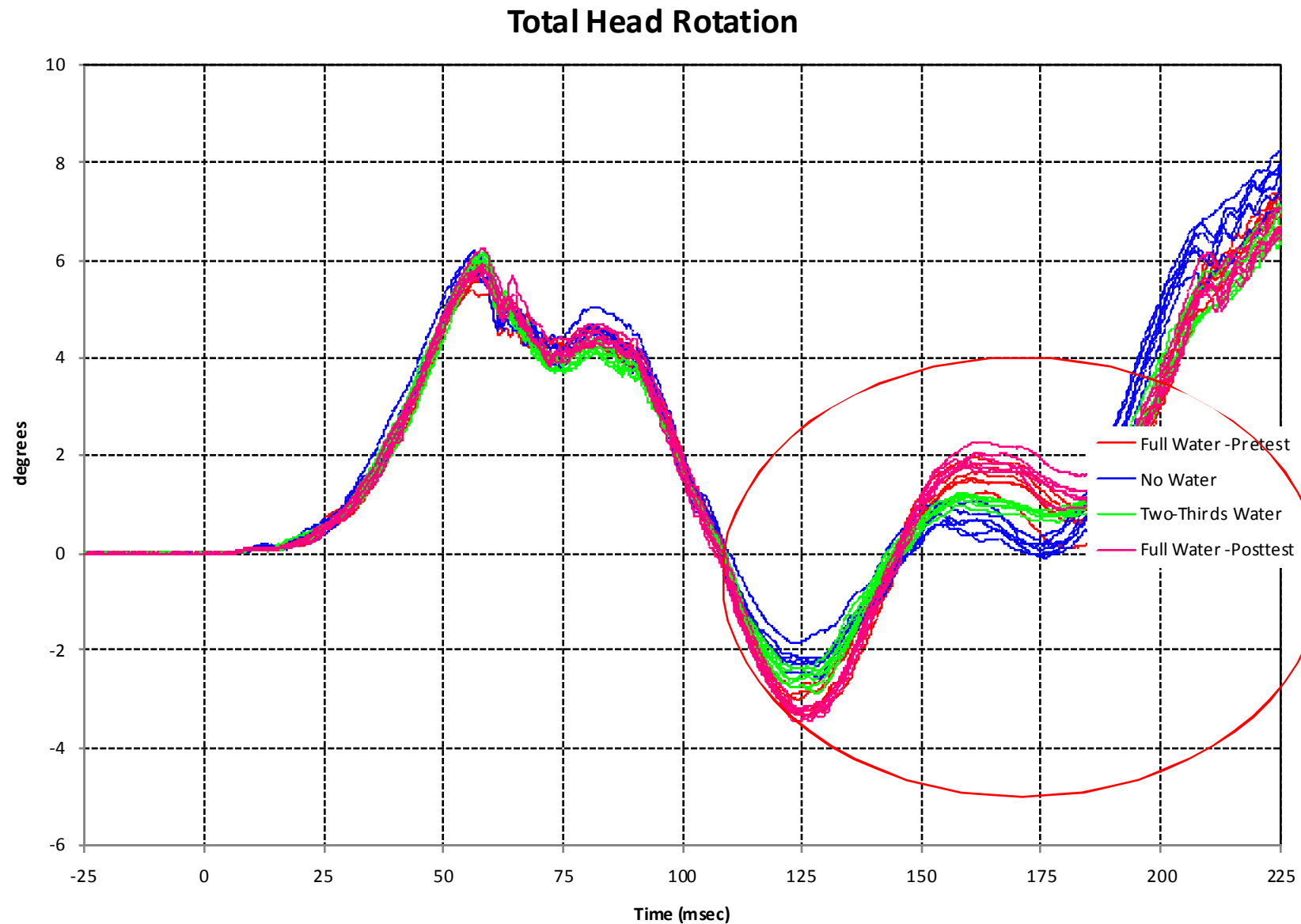
## Headrest Certification

Pot D - Sled Pot



# Jacket Water Series

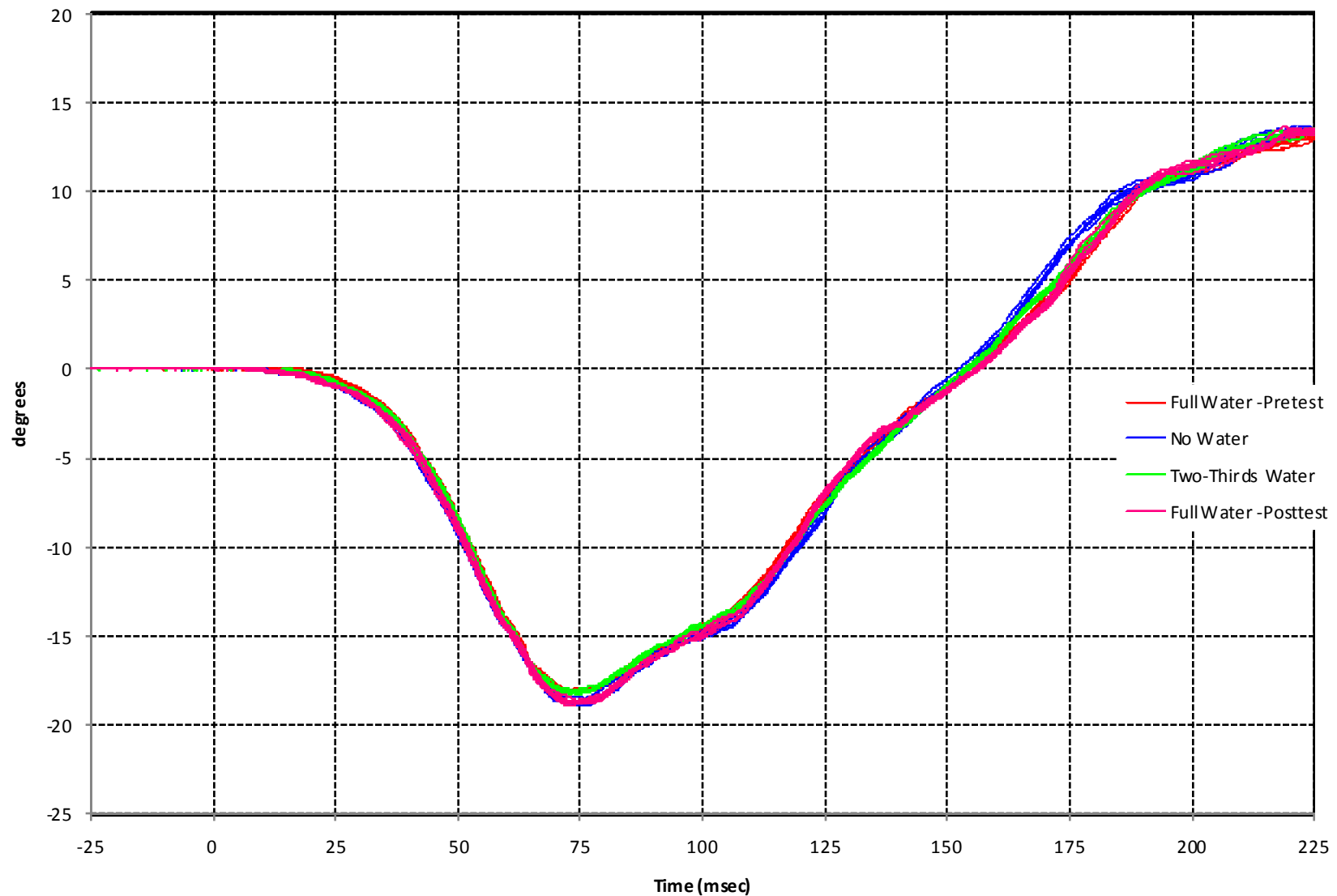
## Headrest Certification



# Jacket Water Series

## Headrest Certification

Total Thoracic Rotation



# Jacket Water Series

## Headrest Certification

- Conclusions from Headrest Certification
  - Water in the made a small difference during the rebound
  - Water did not make much difference during impact
- Recommendation:
  - add weight spec for jacket with water to verify jackets have correct amount of water
  - put in user's manual as standard verification when running certification test