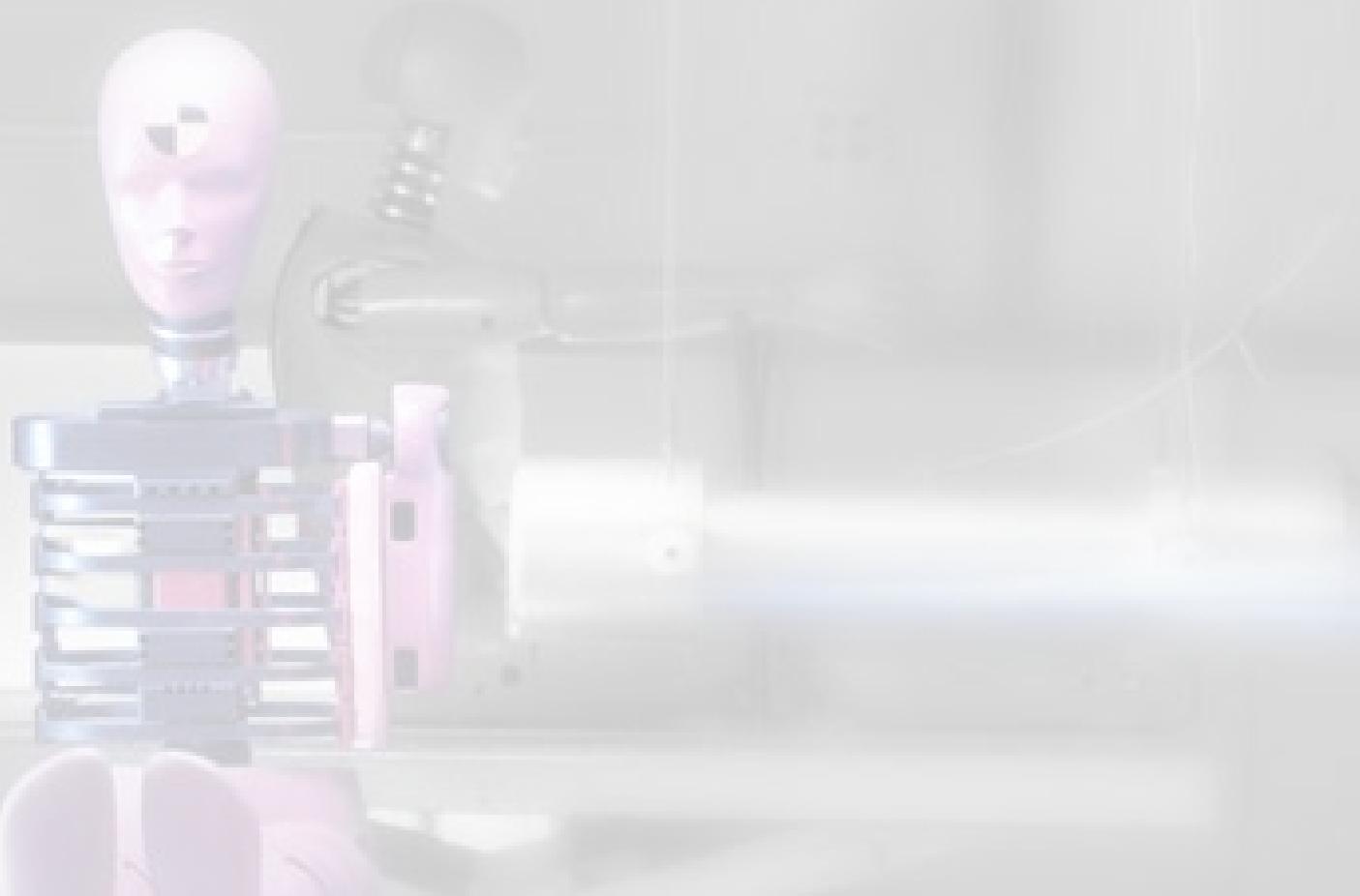




# H-III50 M REAR IMPACT R&R IN TRL LAB SEAT ALL DATA PLOTS *PRELIMINARY RESULTS*

04/18/2013

prepared by: Paul Depinet



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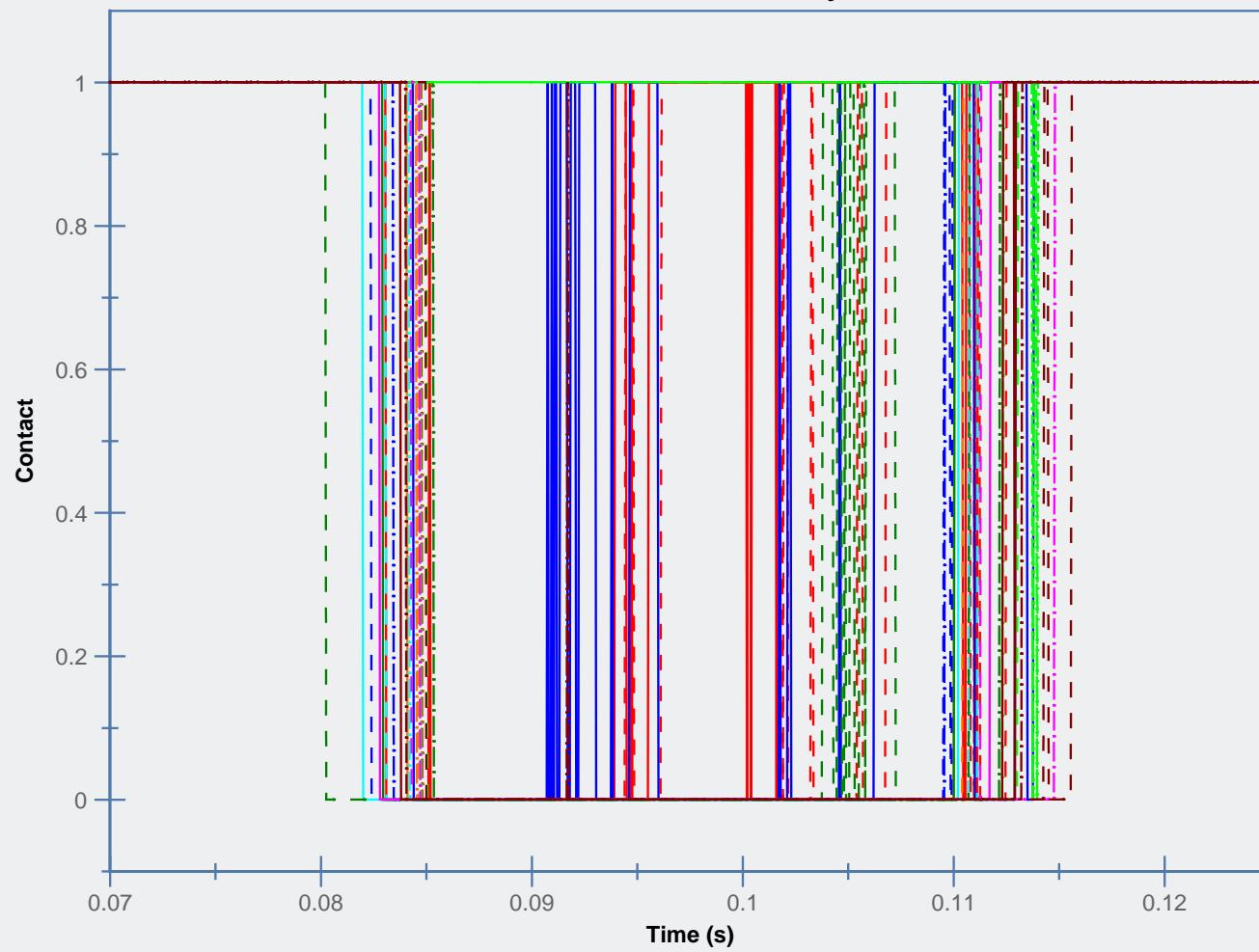
## Legend

	B5010-T1 M121002005 filter
	B5010-T2 M121002006 filter
	B5010-T3 M130226001 filter
	B5010-T4 M130226002 filter
	B5010-T5 M130227001 filter
	B5010-T6 M130227002 filter
	B5011-T1 M121002001 Filter
	B5011-T2 M130122001filter
	B5011-T3 M130131001filter
	B5011-T4 M130131002filter
	B5011-T5 M130201001filter
	B5011-T6 M130201002filter
	B5014-T1 M121127002 filter
	B5014-T2 M121128002 filter
	B5014-T3 M130205004 filter
	B5014-T4 M130222002 filter
	B5014-T5 M130225001 filter
	B5014-T6 M130225002 filter
	B5015-T1 M121129002 filter
	B5015-T2 M130131003filter
	B5015-T3 M130131004filter
	B5015-T4 M130201003filter
	B5015-T5 M130201010filter
	B5015-T6 M130205002filter

Legend

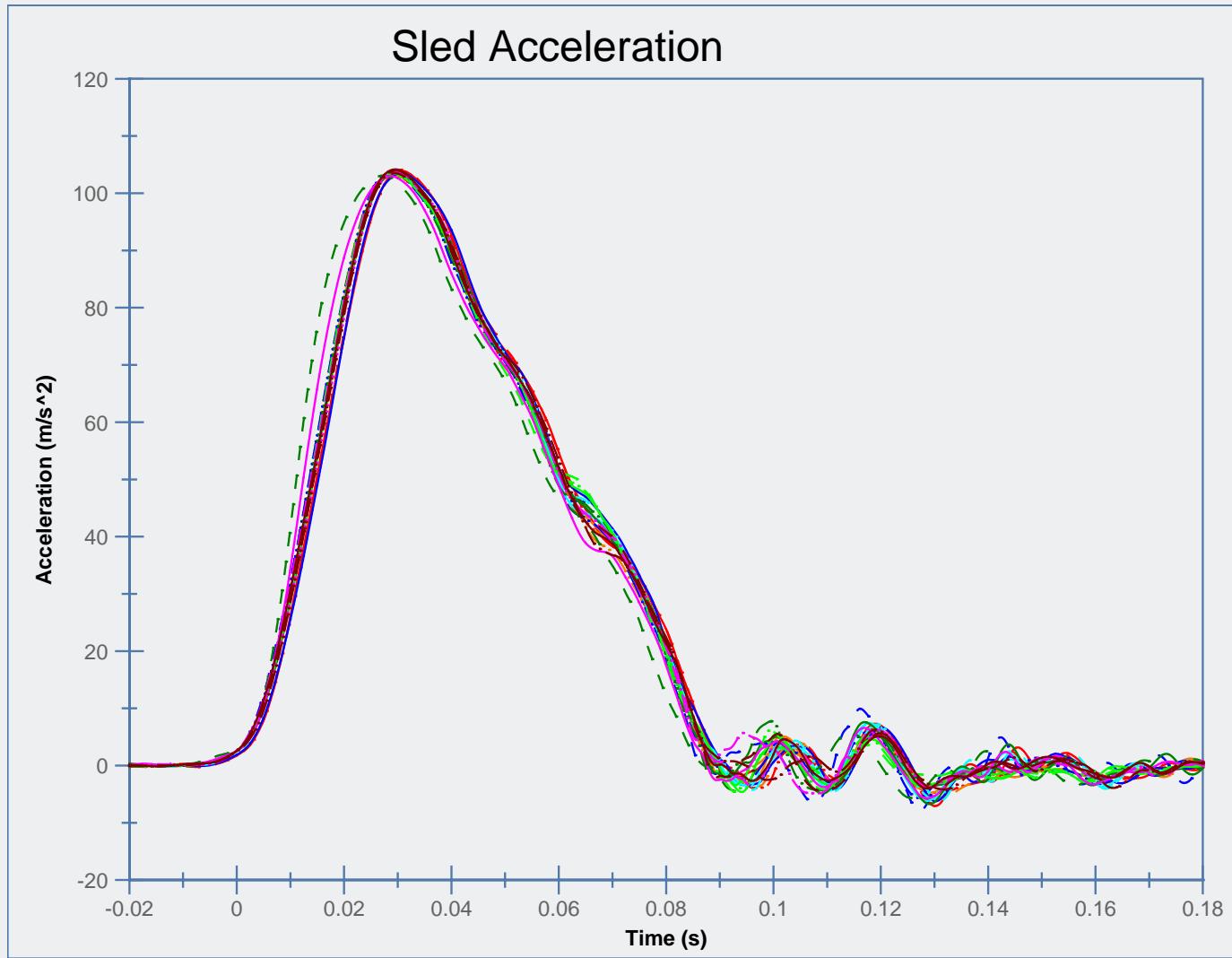
3

## Head Contact Overlay



Contact Sw

4

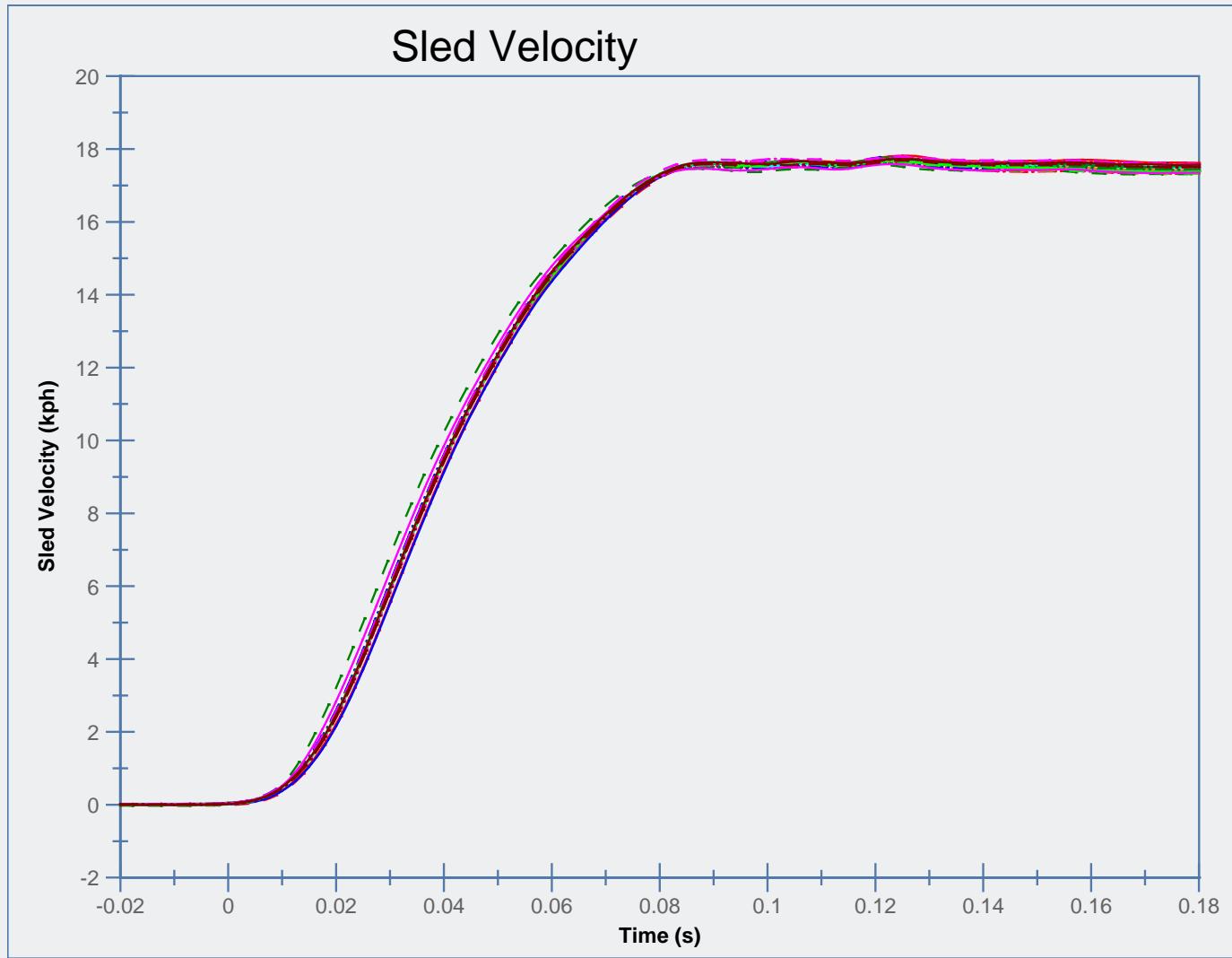


Sled Accel

5

## DIAdem REPORT Layout

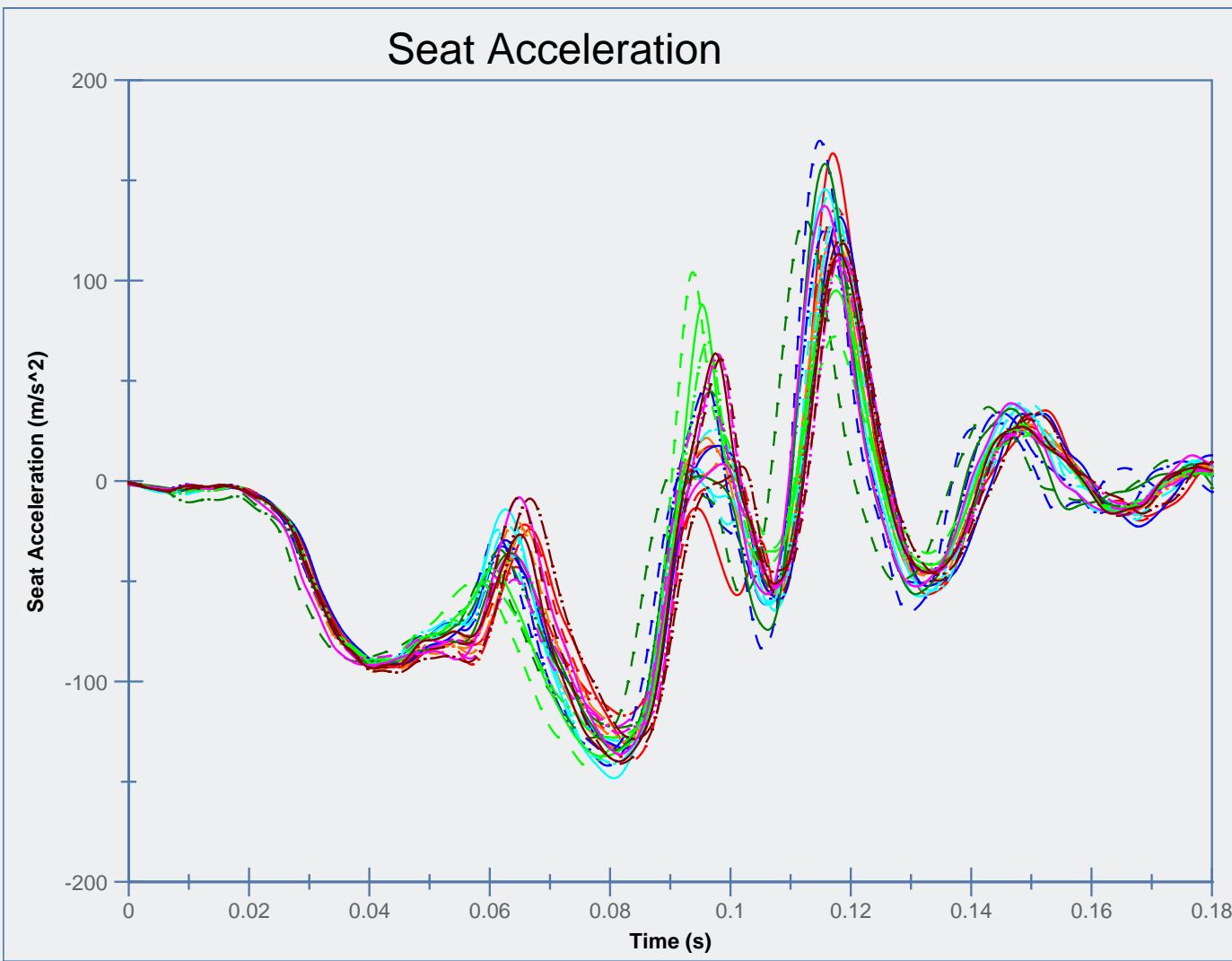
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Sled Vel

6

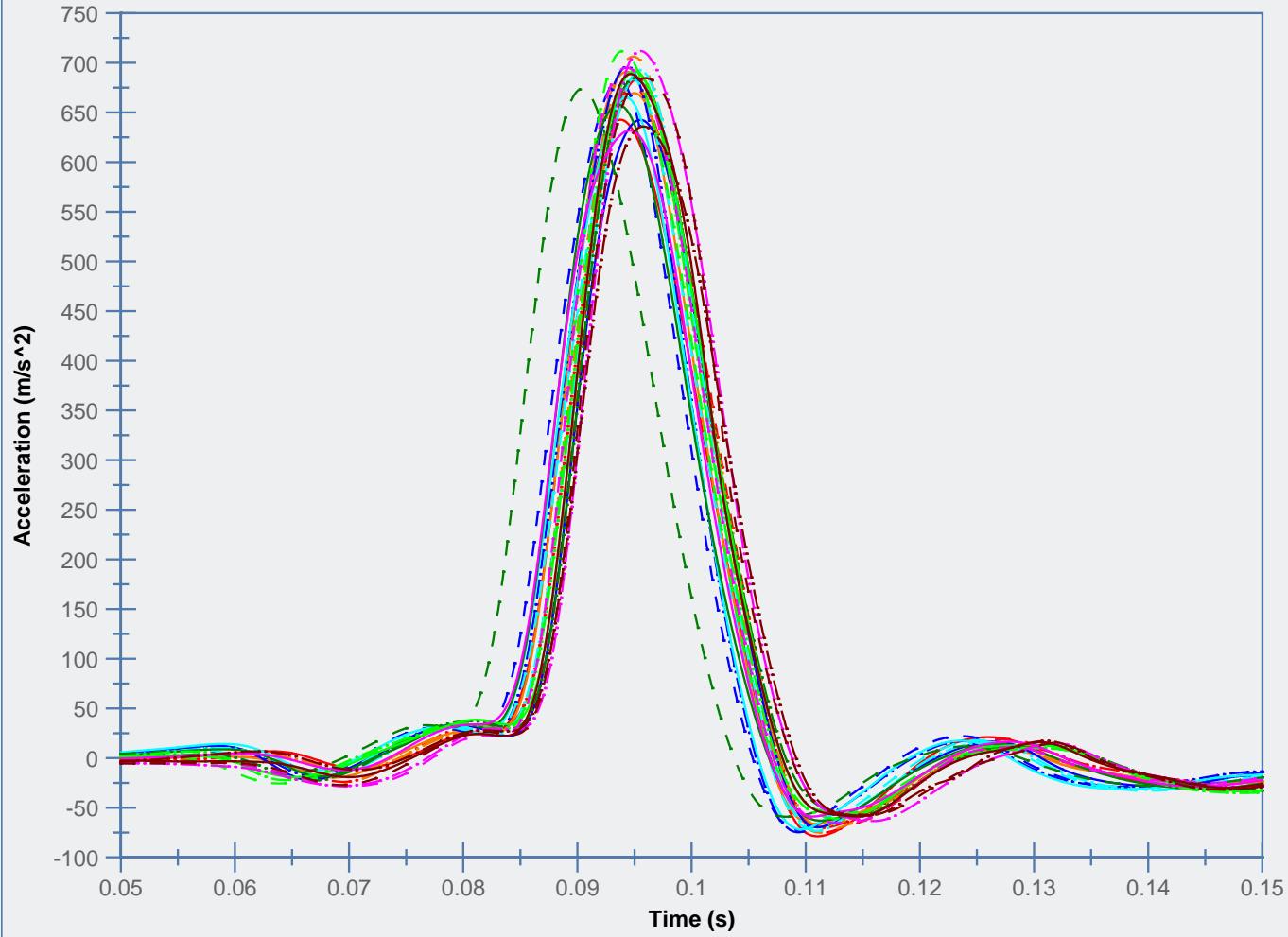
## Seat Acceleration



Seat Accel

7

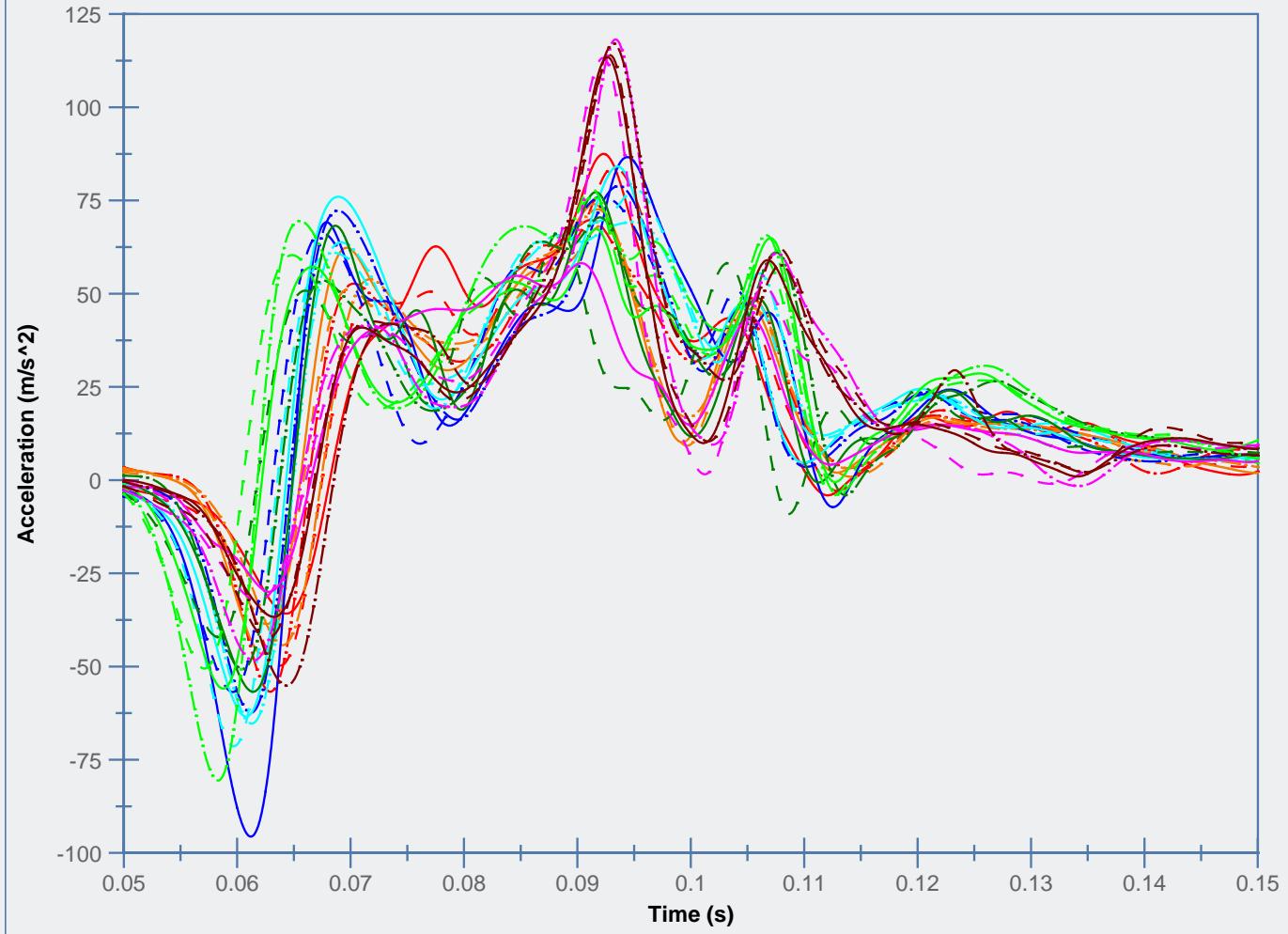
## Head X Acceleration



Head Ax

8

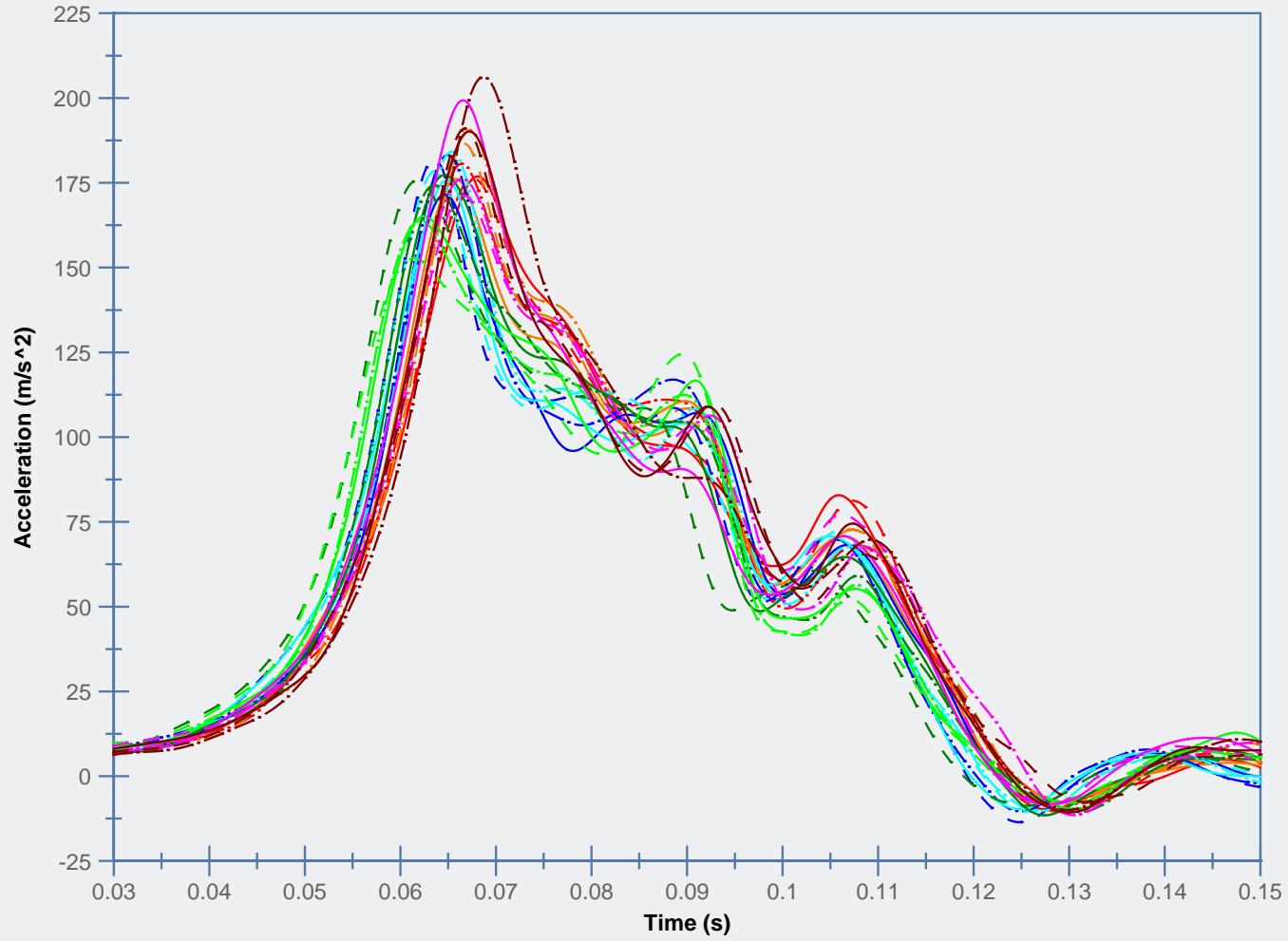
## Head Z Acceleration



Head Az

9

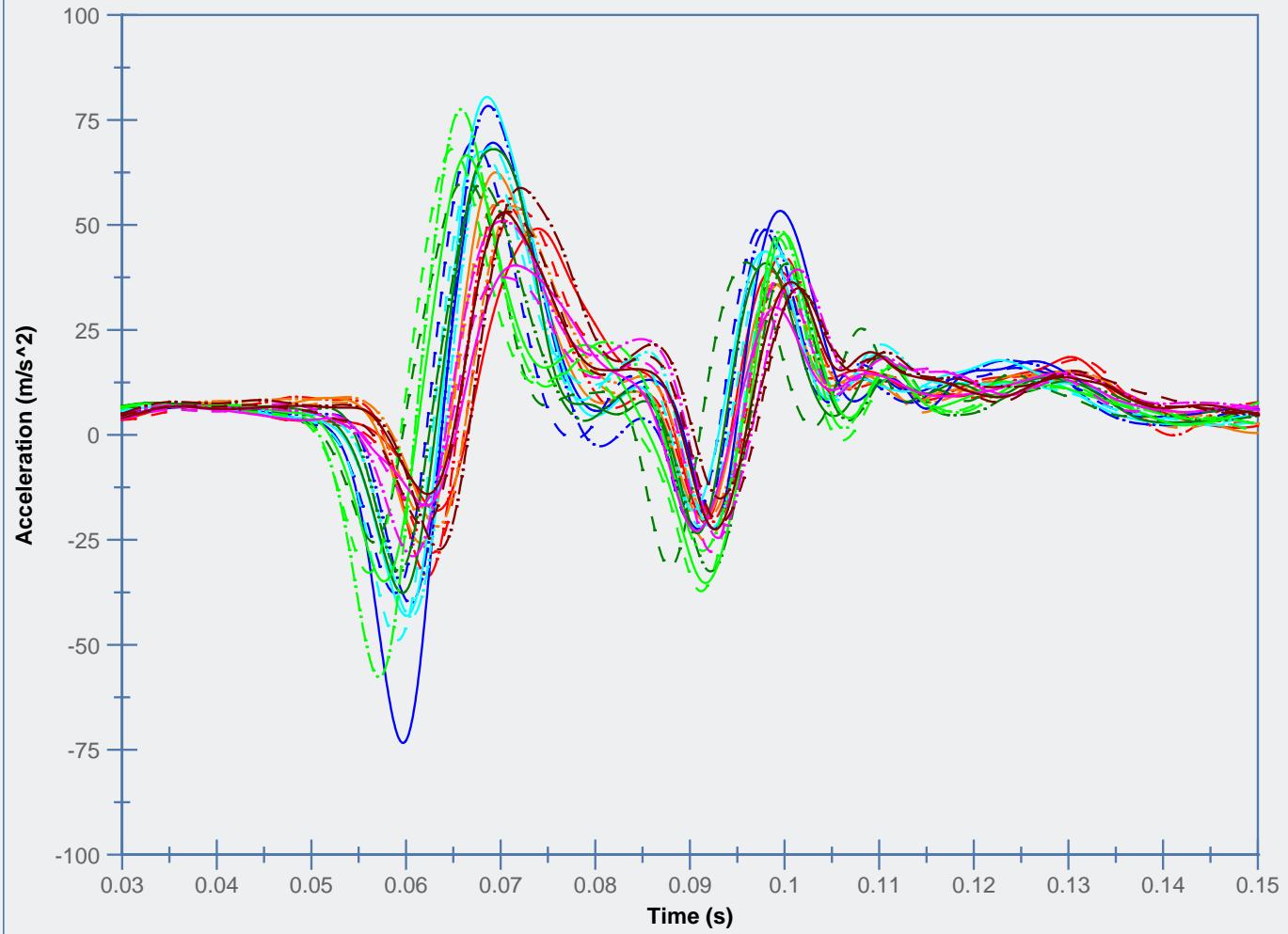
## Chest X Acceleration



T4 Ax

10

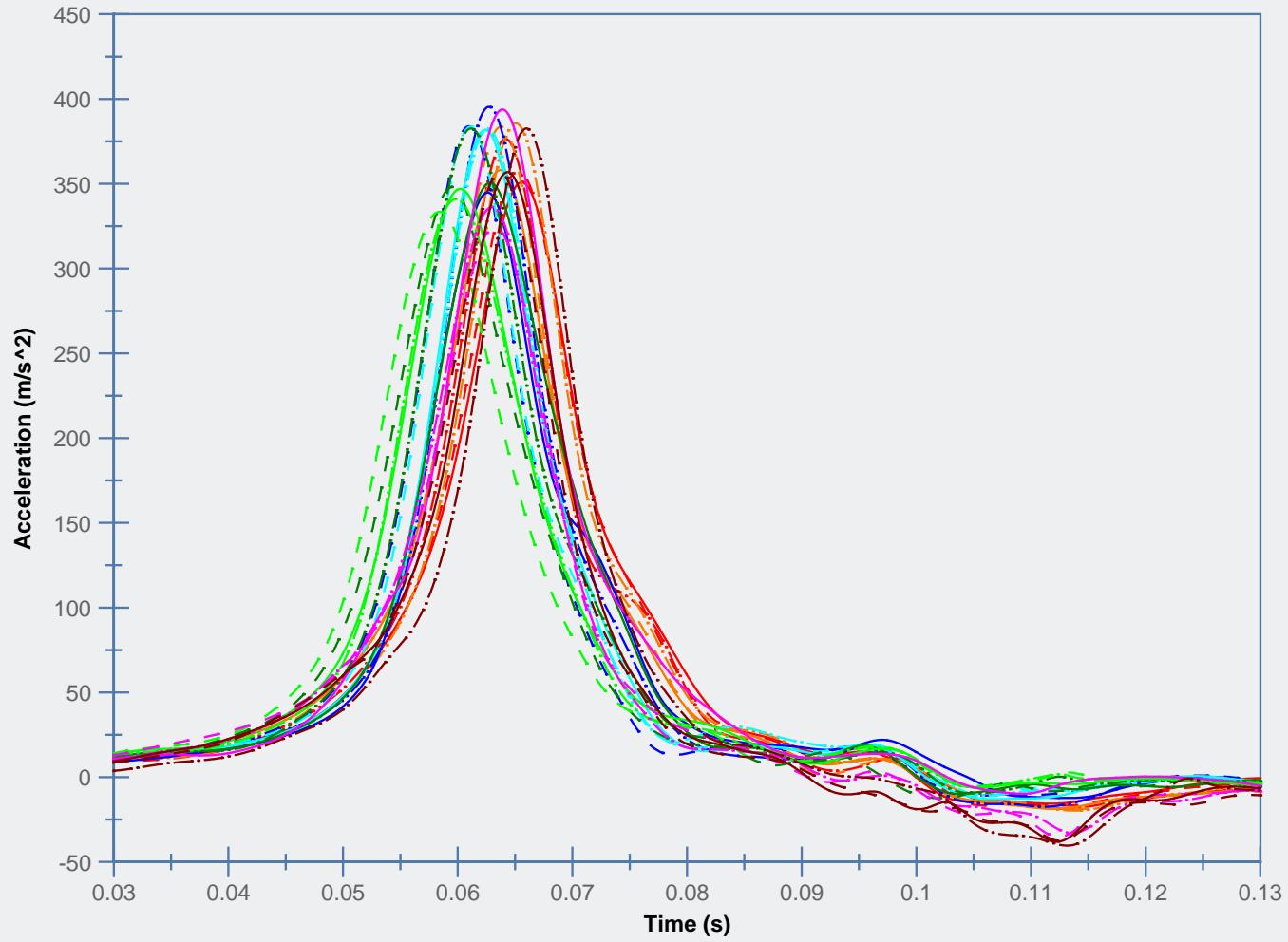
## Chest Z Acceleration



T4 Az

11

## Pelvis X Acceleration



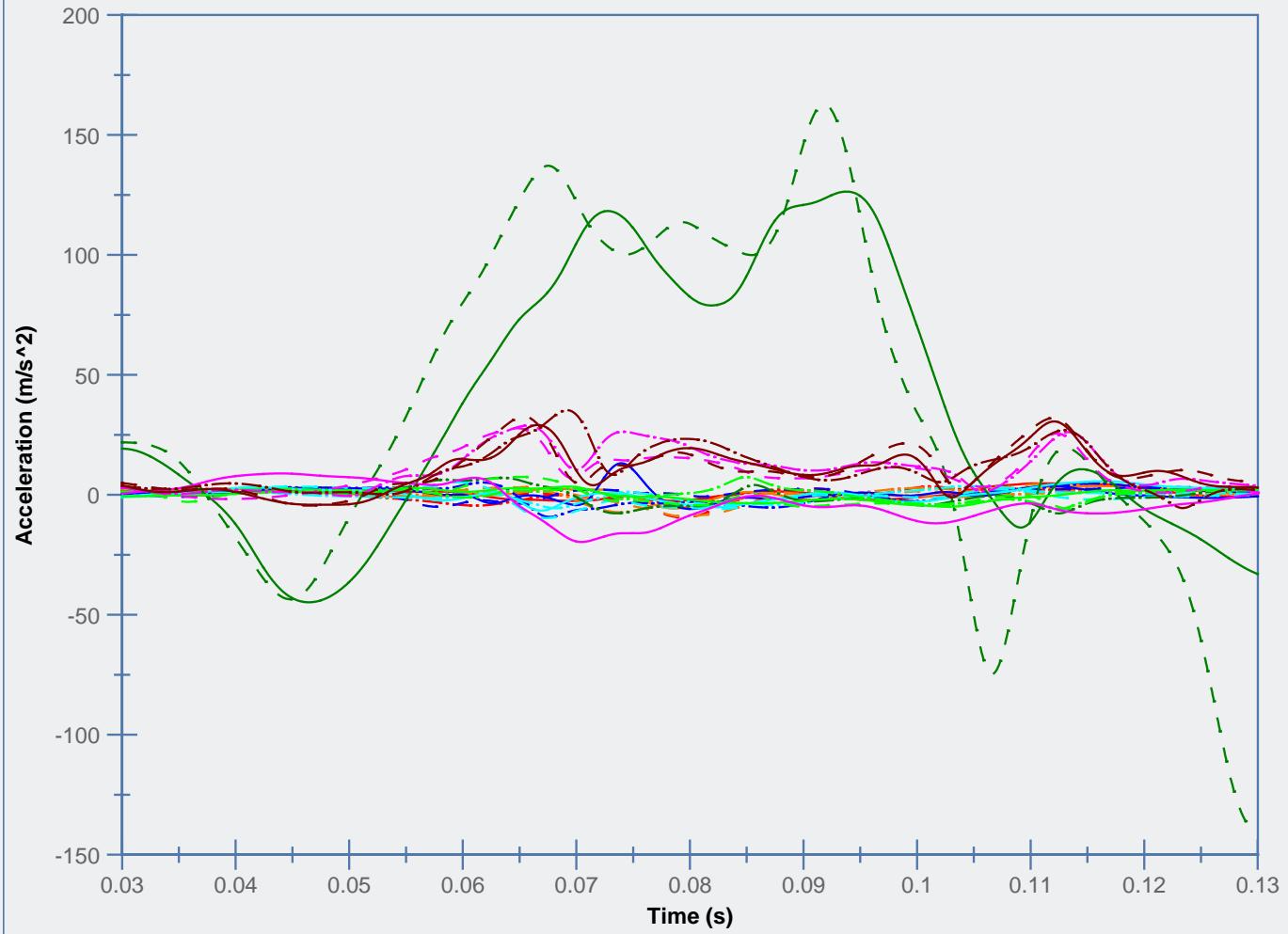
Pelvis Ax

12

**DIAdem REPORT Layout**

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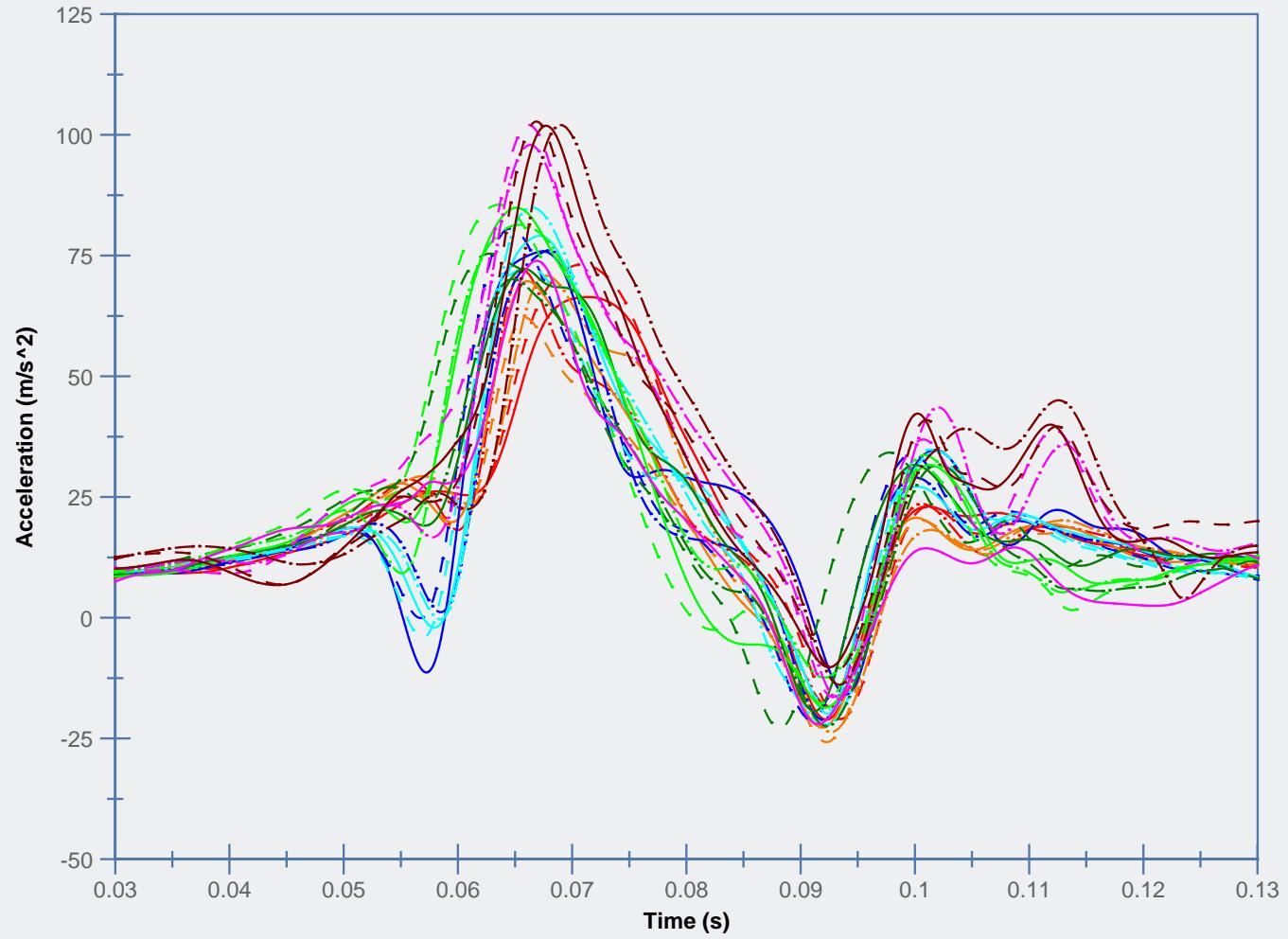
## Pelvis Y Acceleration



Pelvis Ay

13

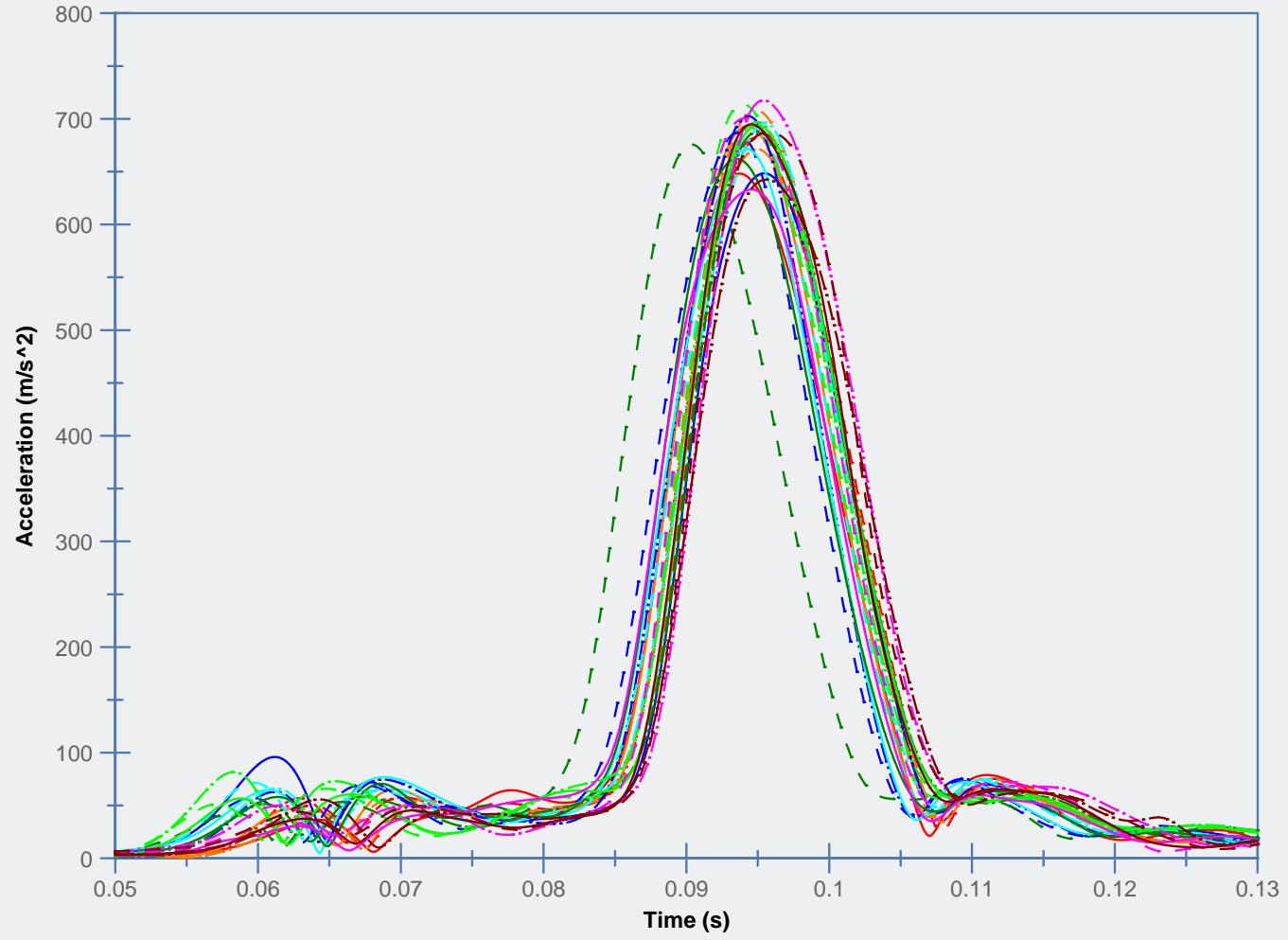
## Pelvis Z Acceleration



Pelvis Az

14

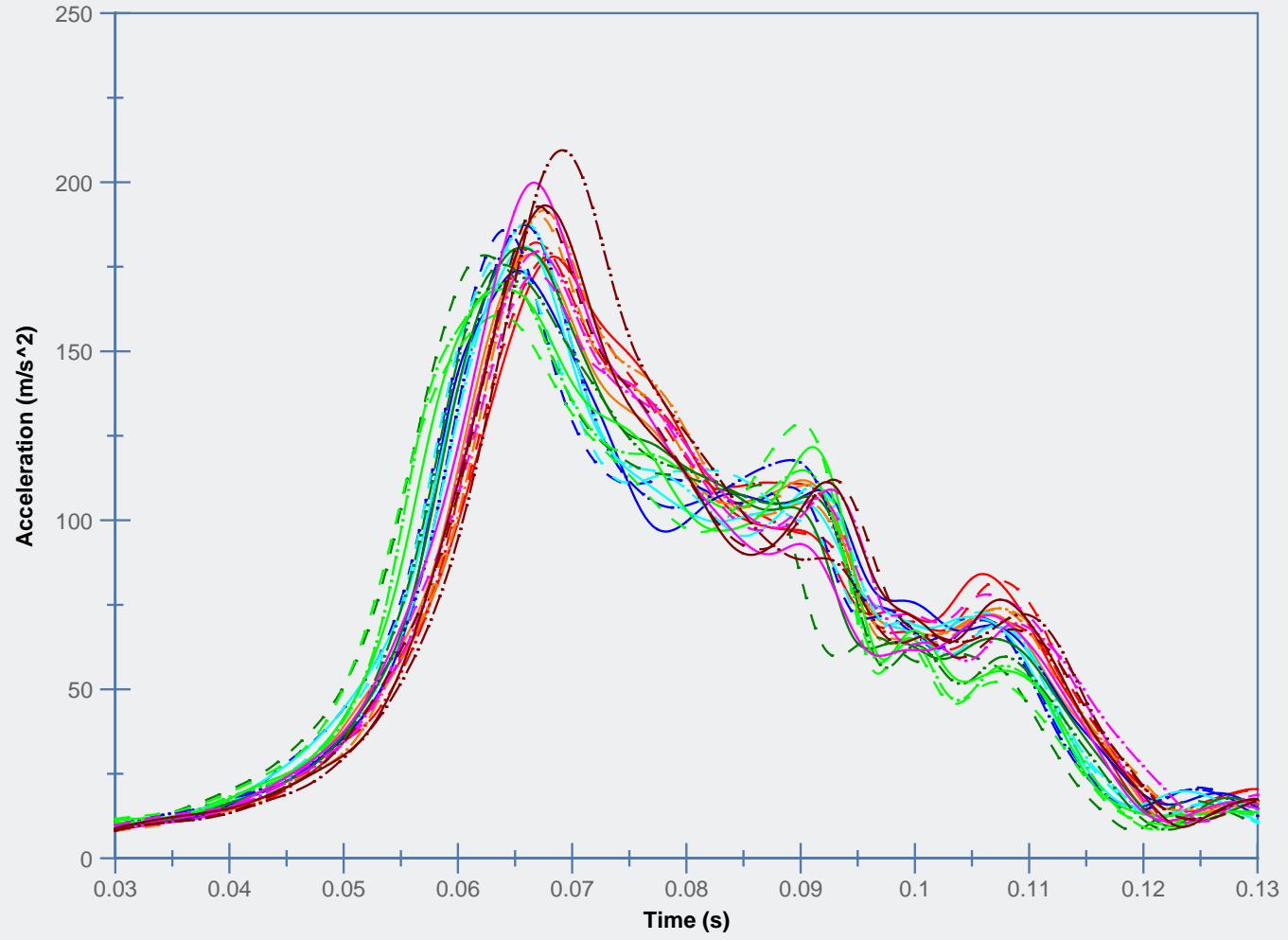
## Head Resultant Acceleration



Head Res Acc

15

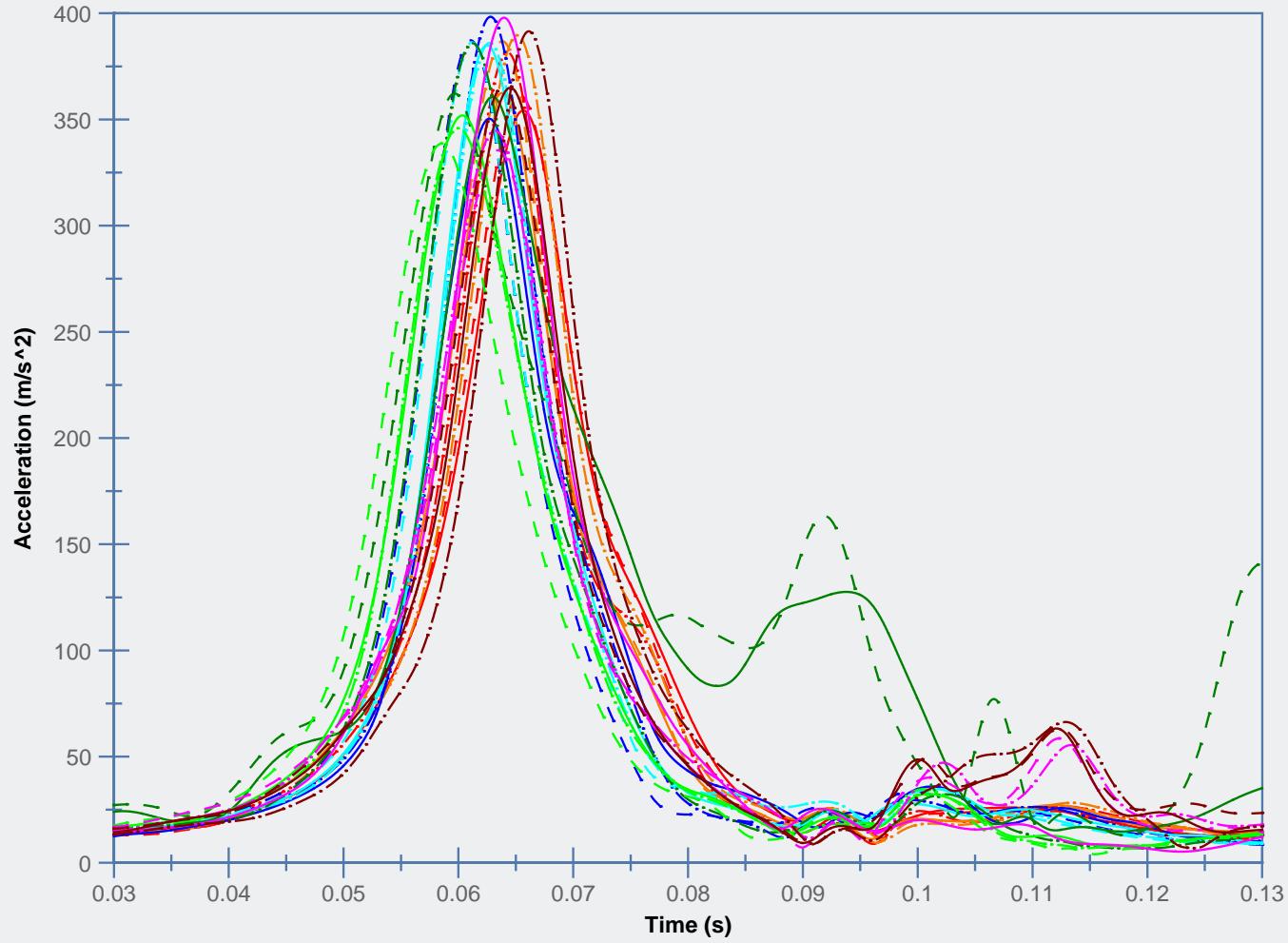
## Chest Resultant Acceleration



T4 Res Acc

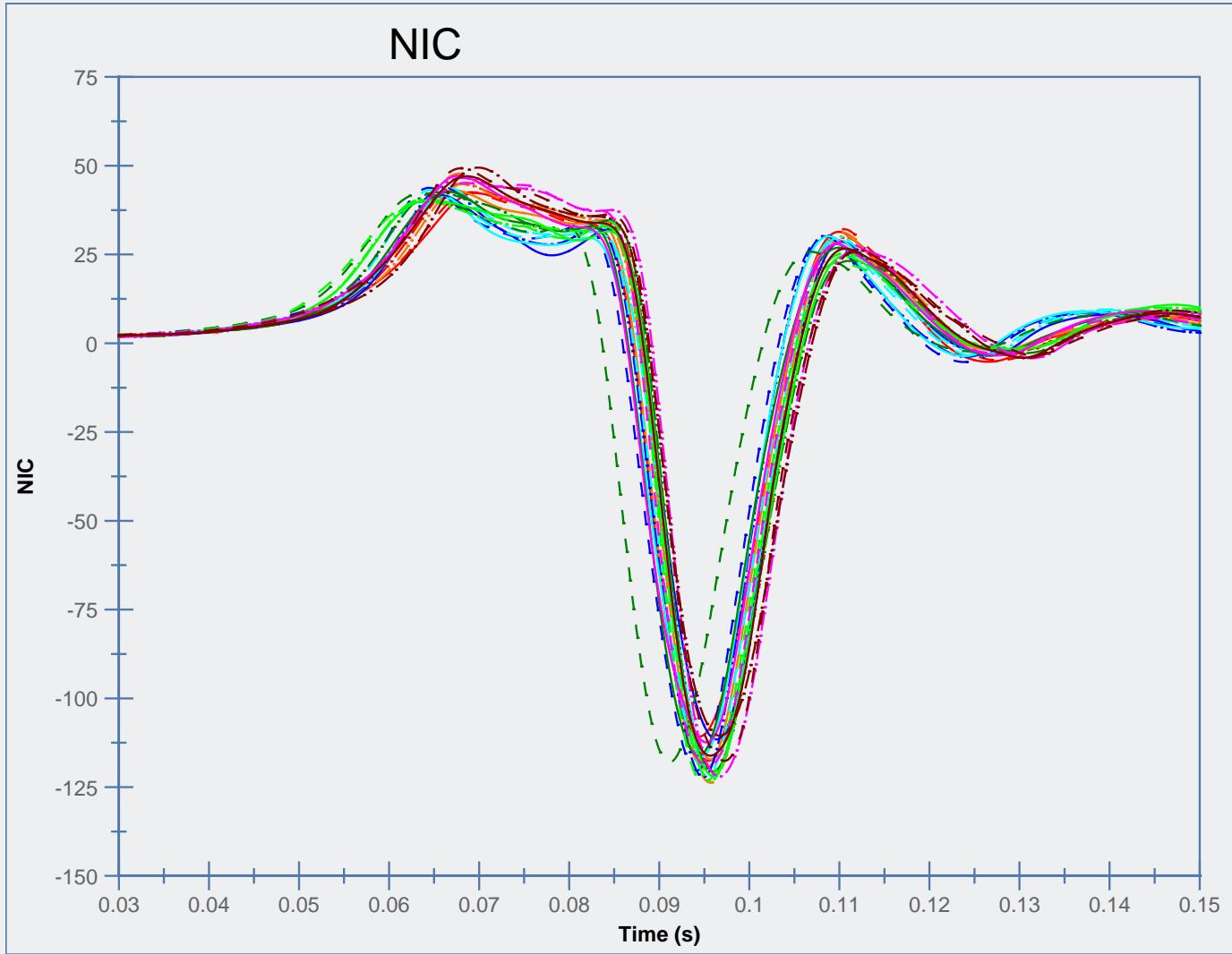
16

## Pelvis Resultant Acceleration



Pel Res Acc

17



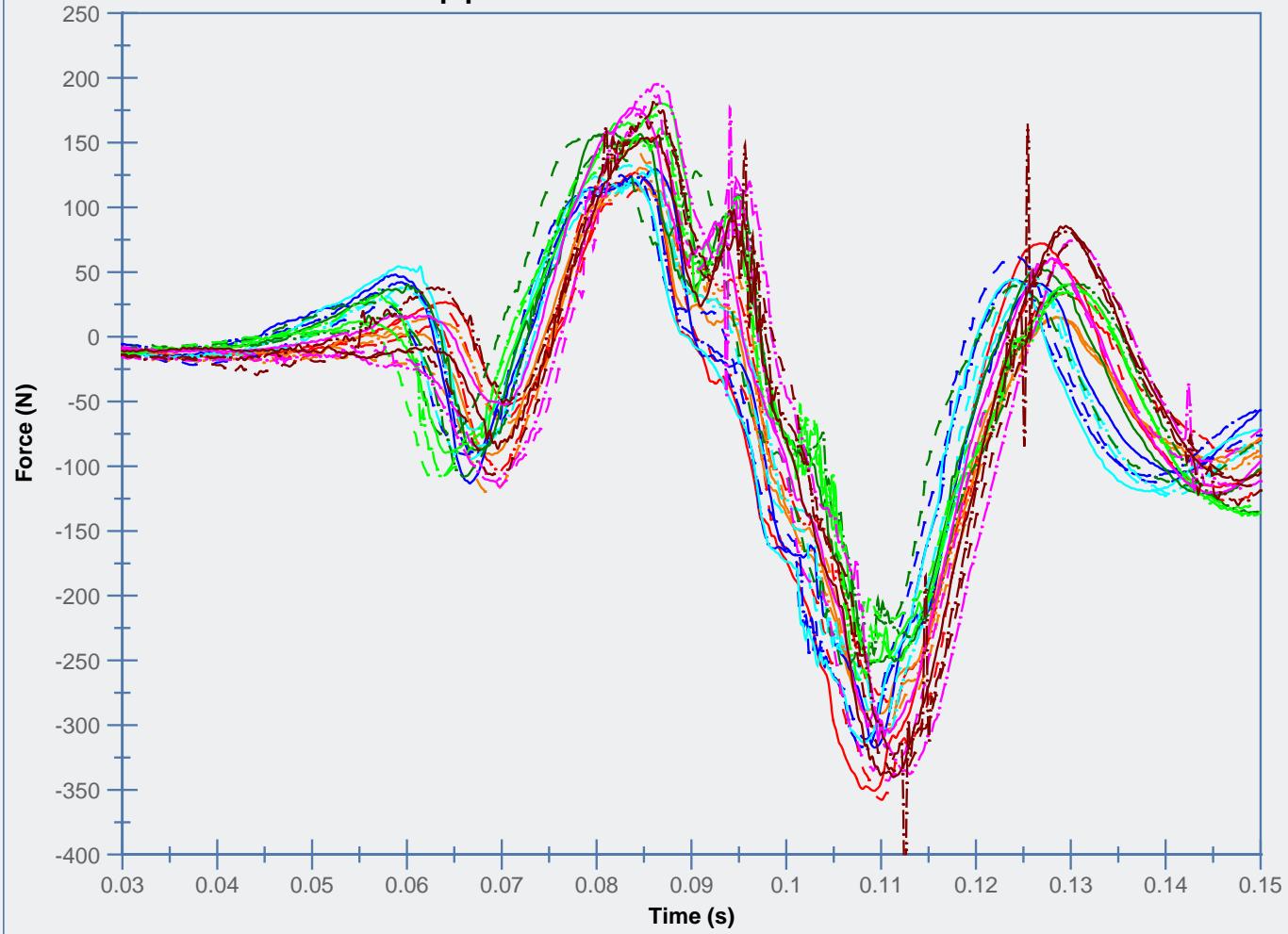
NIC

18

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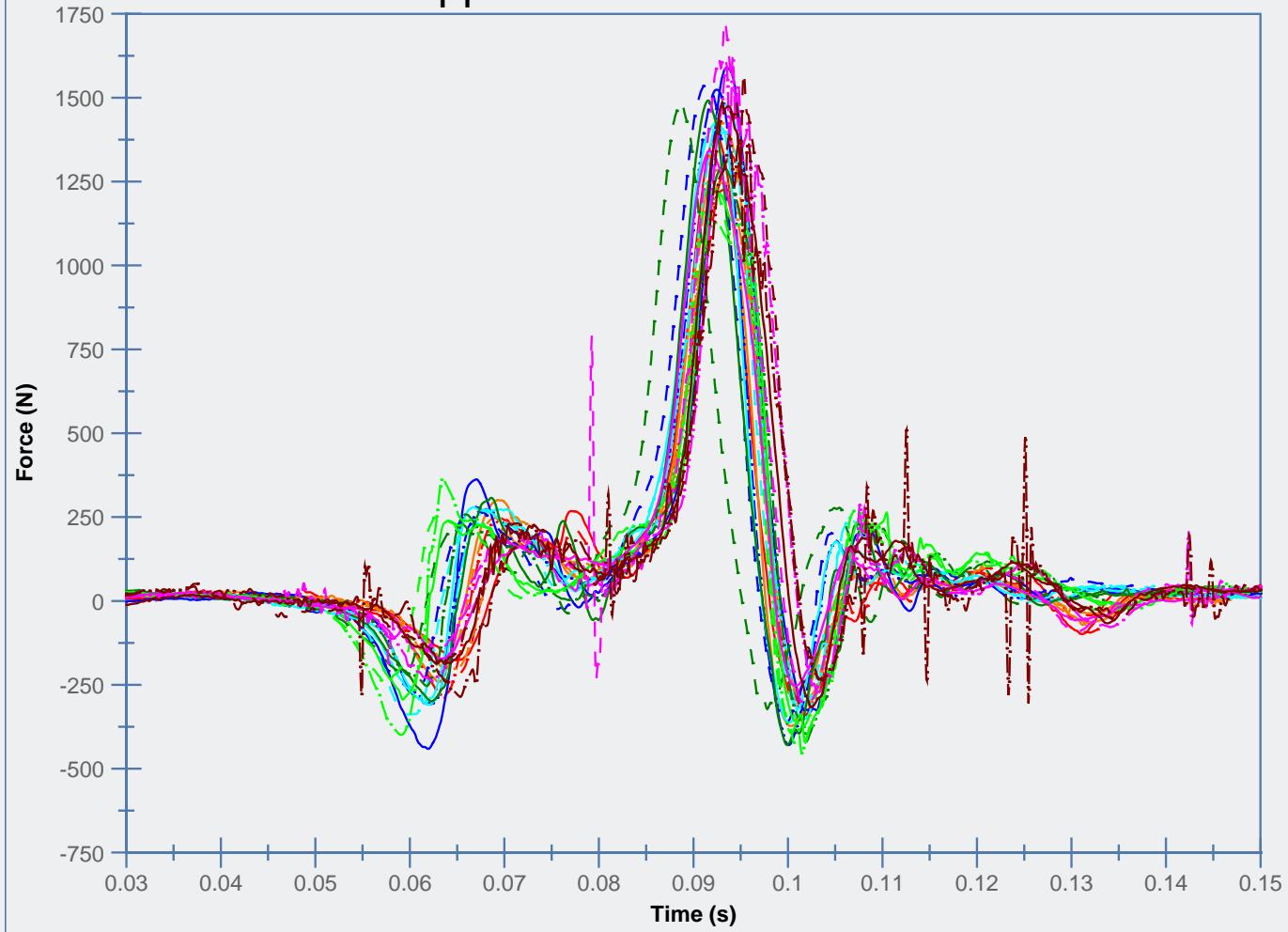
## Upper Neck Fx



Up Fx

19

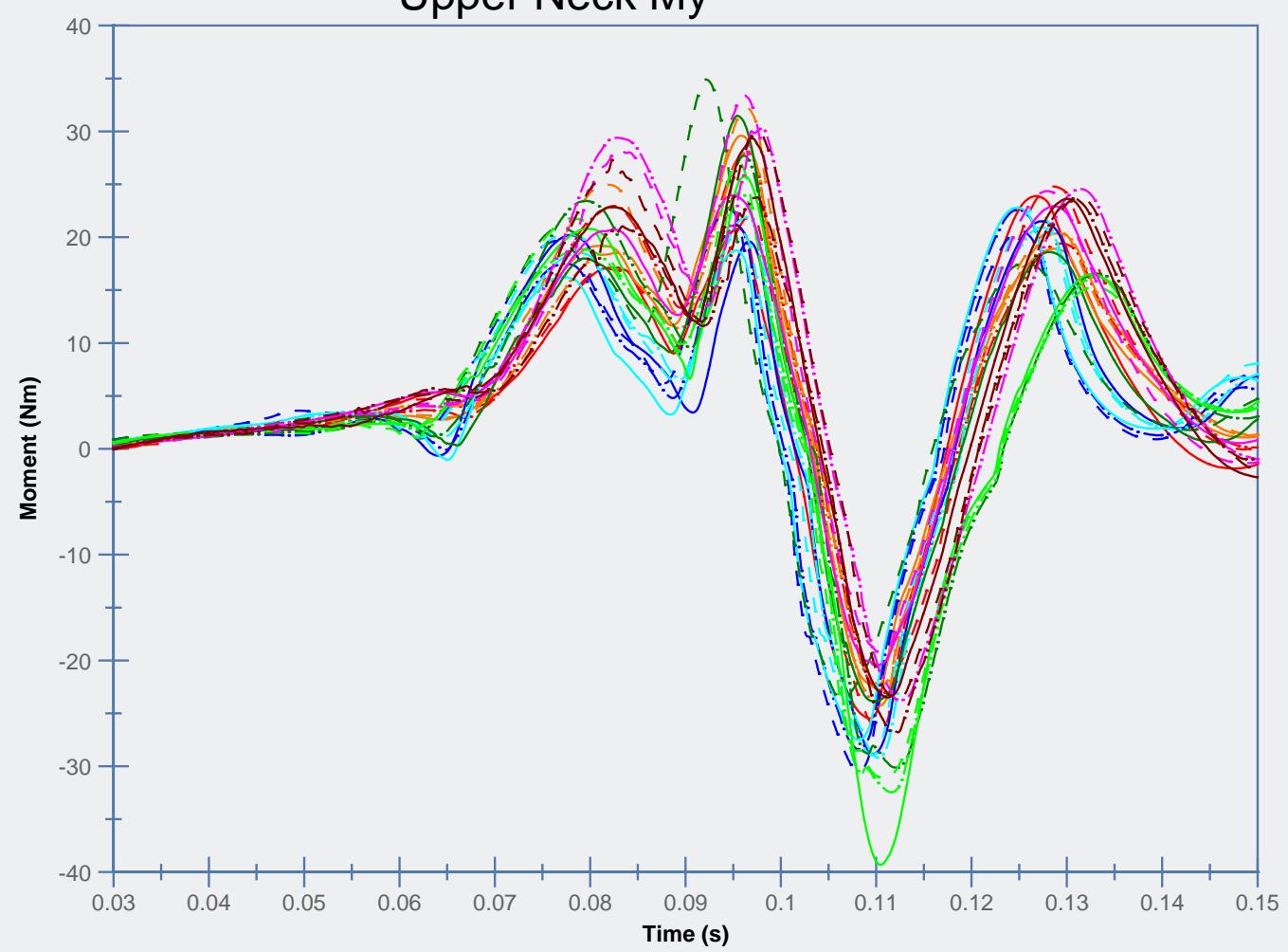
## Upper Neck Fz



Up Fz

20

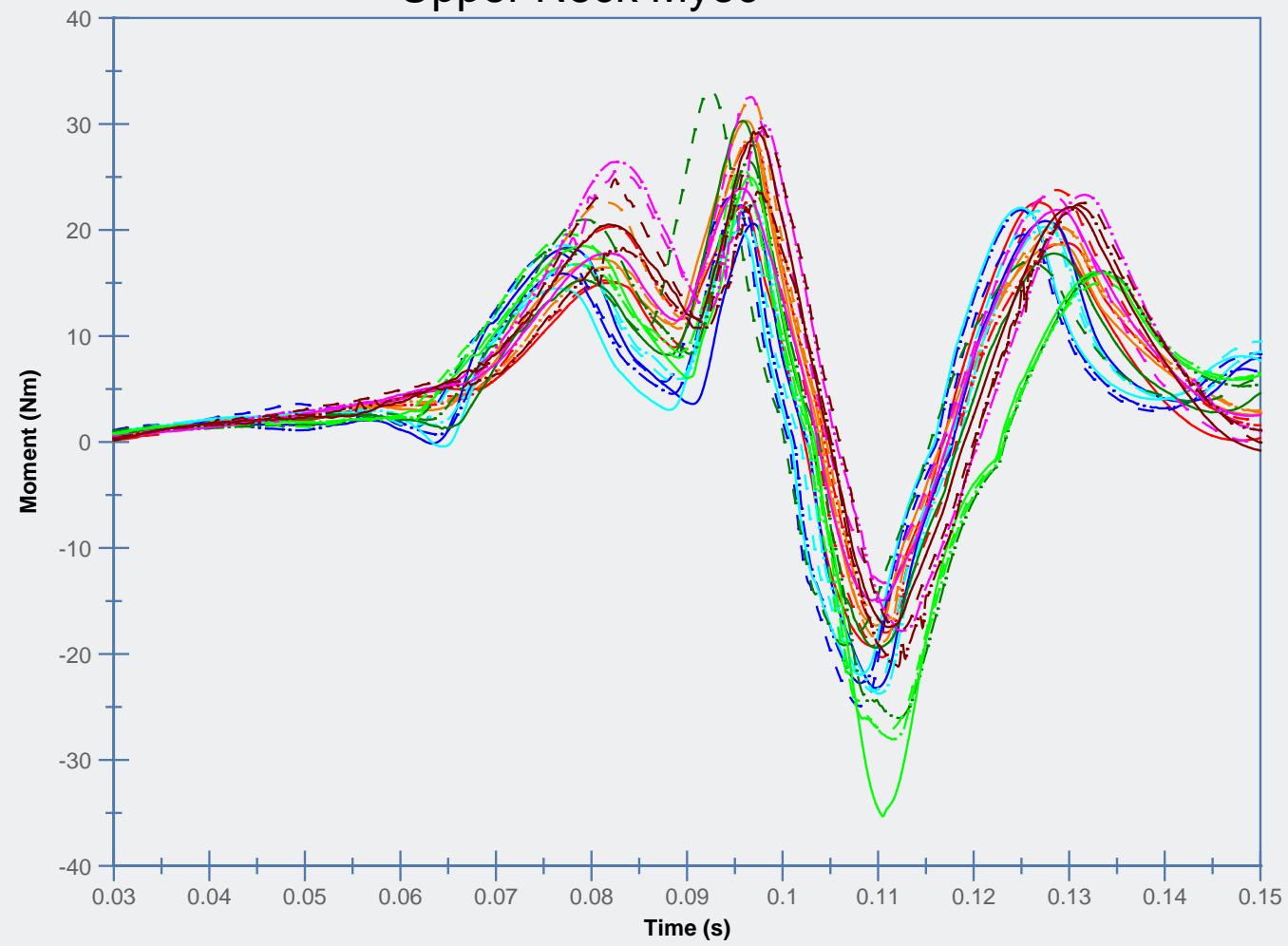
## Upper Neck My



Up My

21

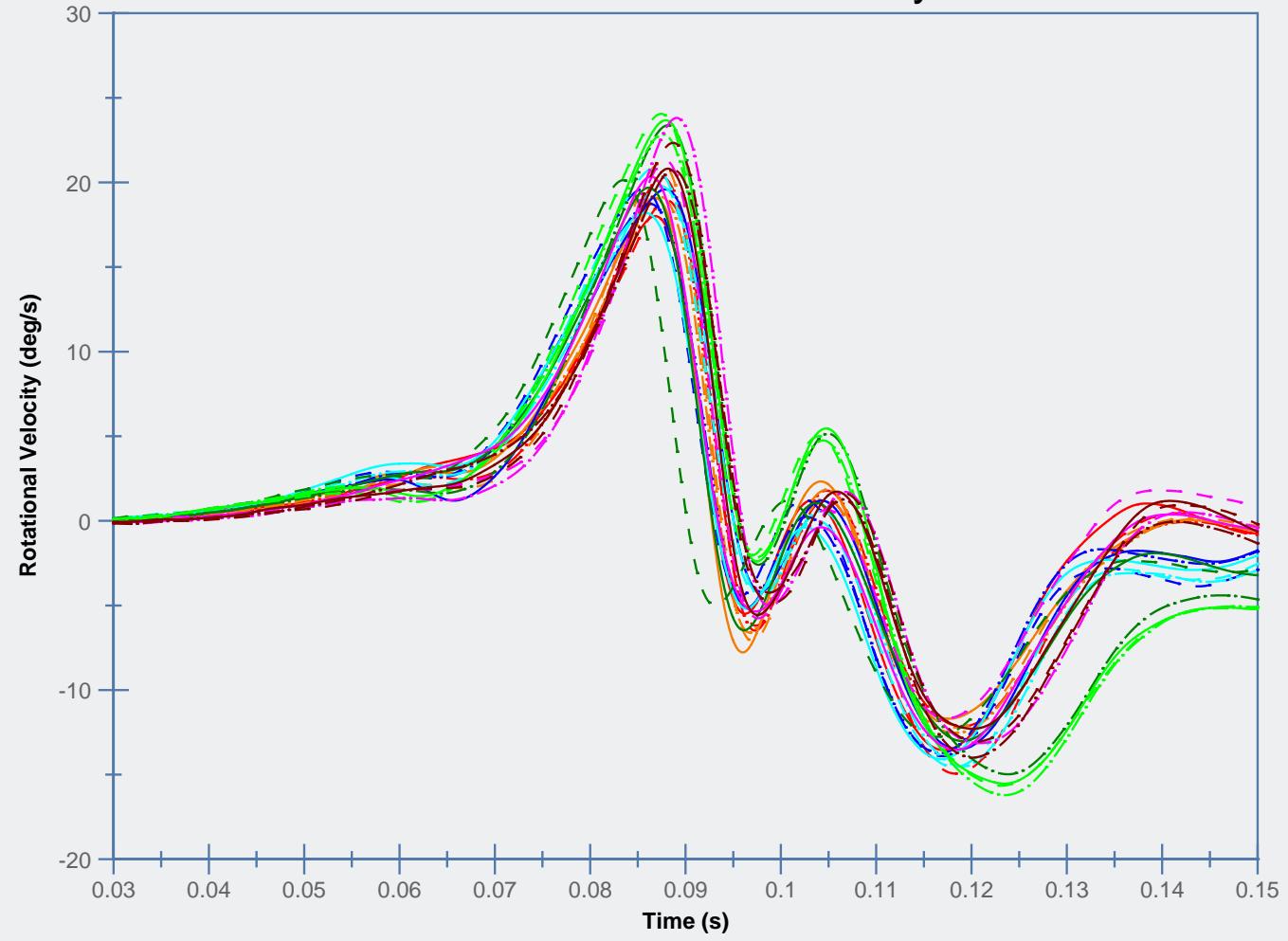
## Upper Neck Myoc



Up Myoc

22

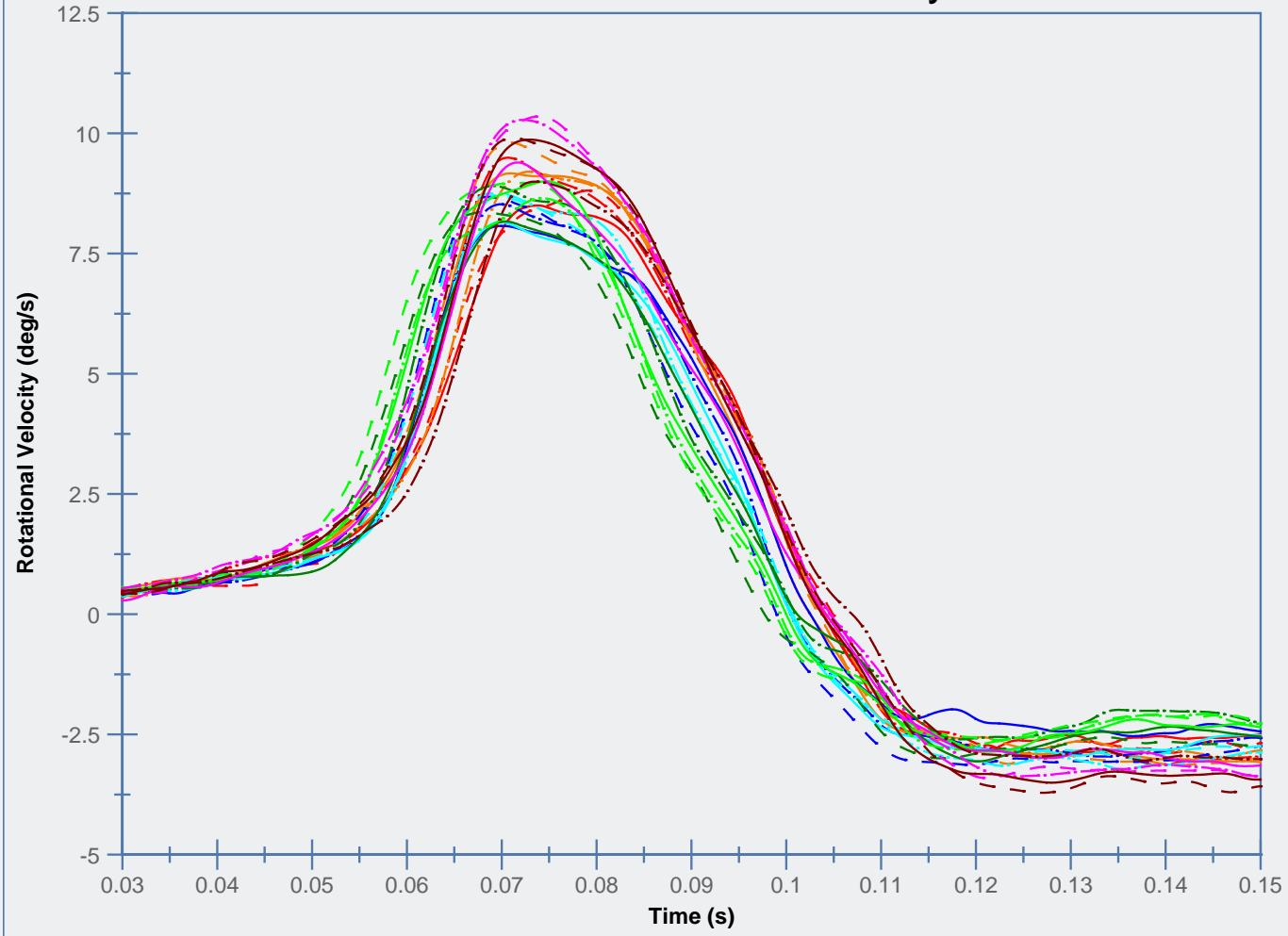
## Head Y Rotational Velocity



Head RVy

23

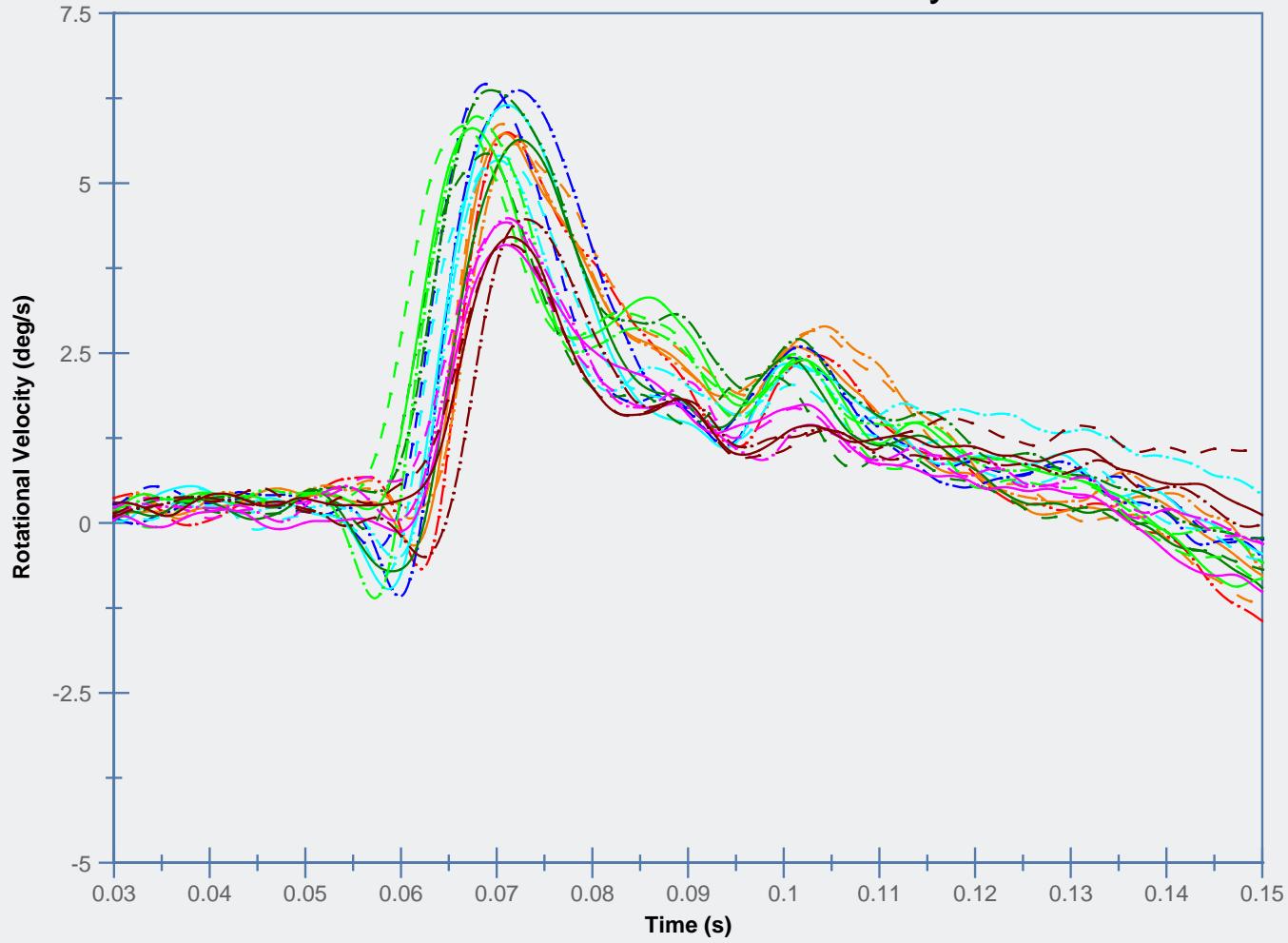
## Chest Y Rotational Velocity



T4 RVy

24

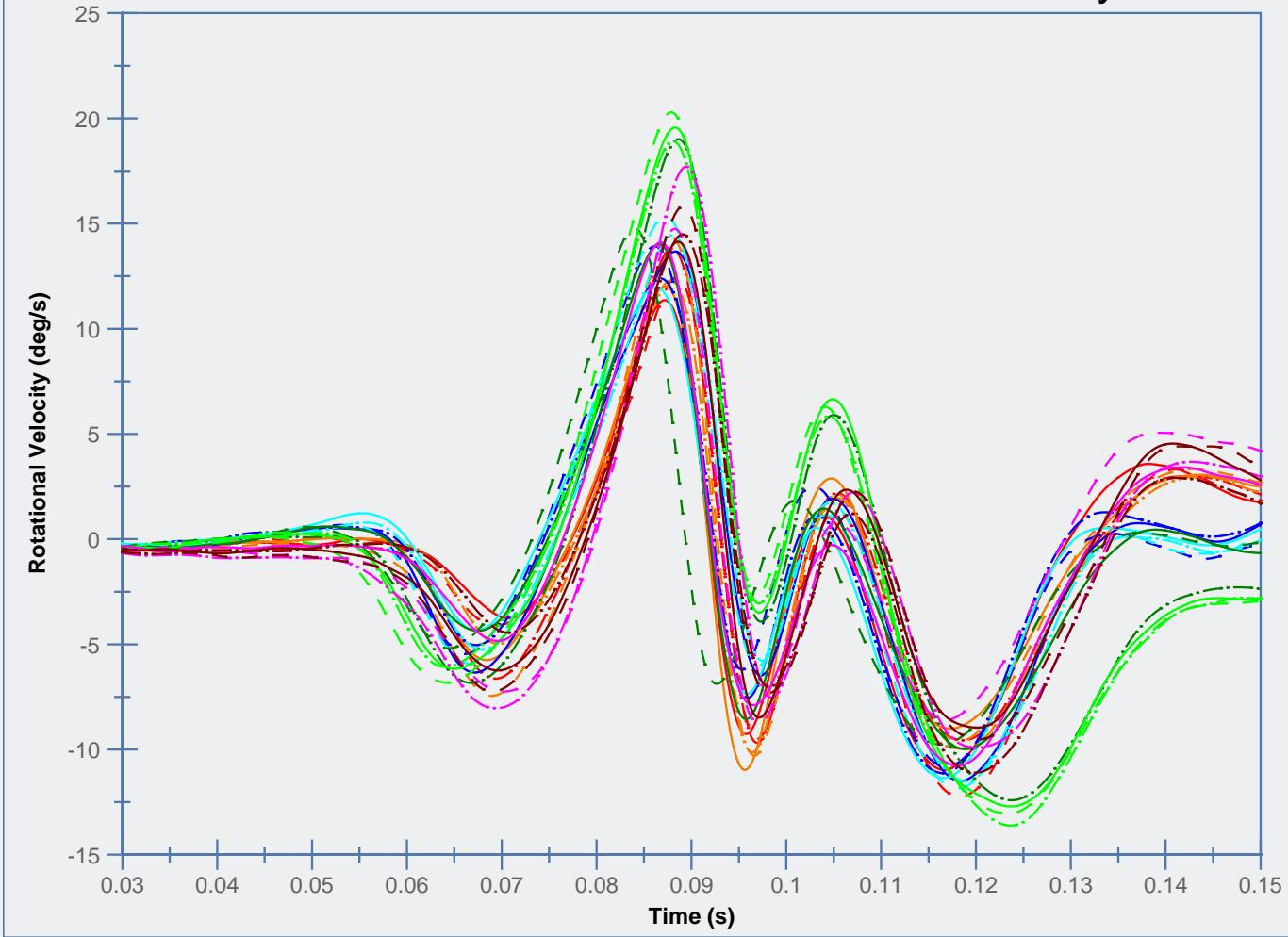
## Pelvis Y Rotational Velocity



Pel RVy

25

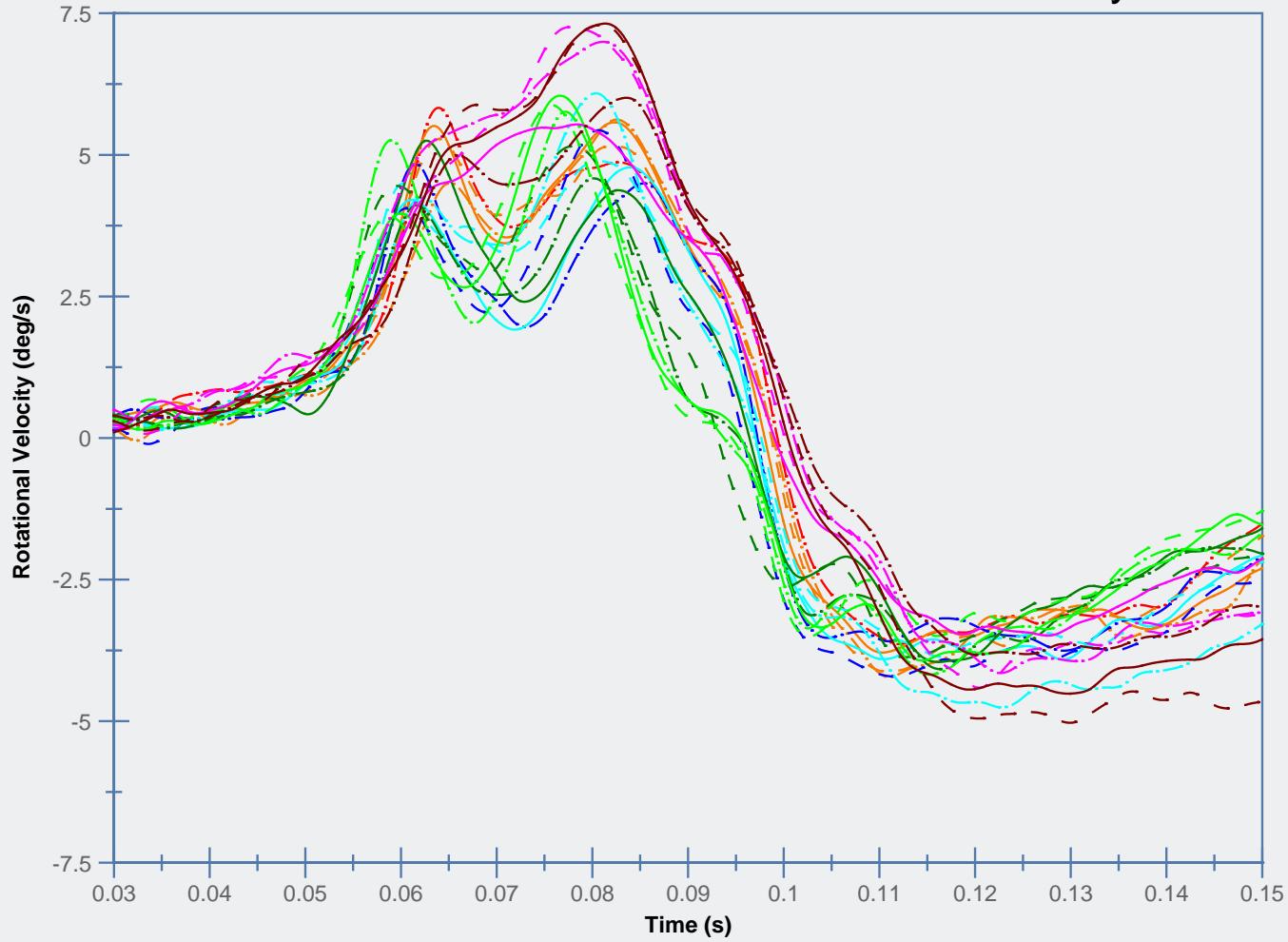
## Head to Chest Y Rotational Velocity



Head-T4 RVy

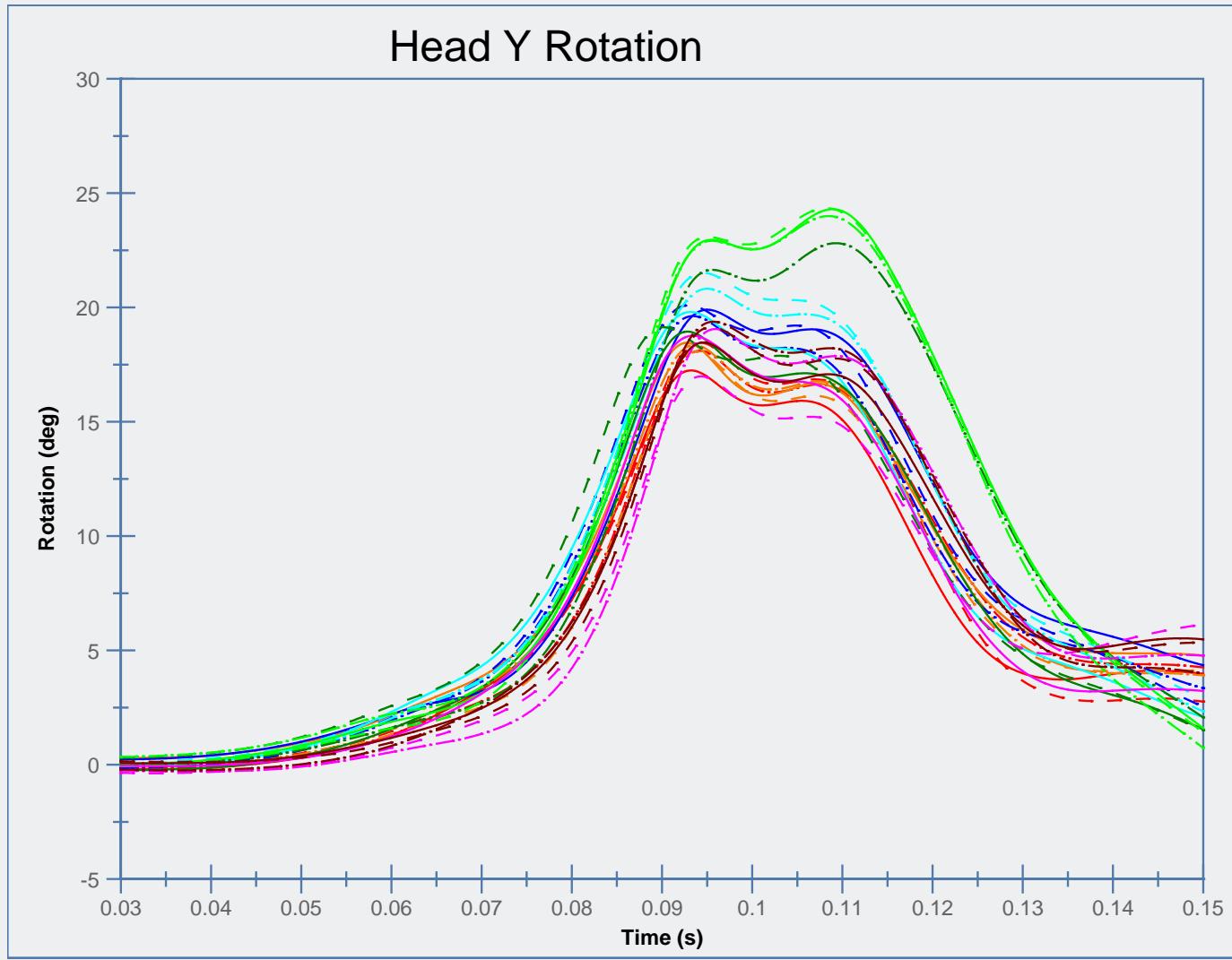
26

## Chest to Pelvis Y Rotational Velocity



T4-Pel RVy

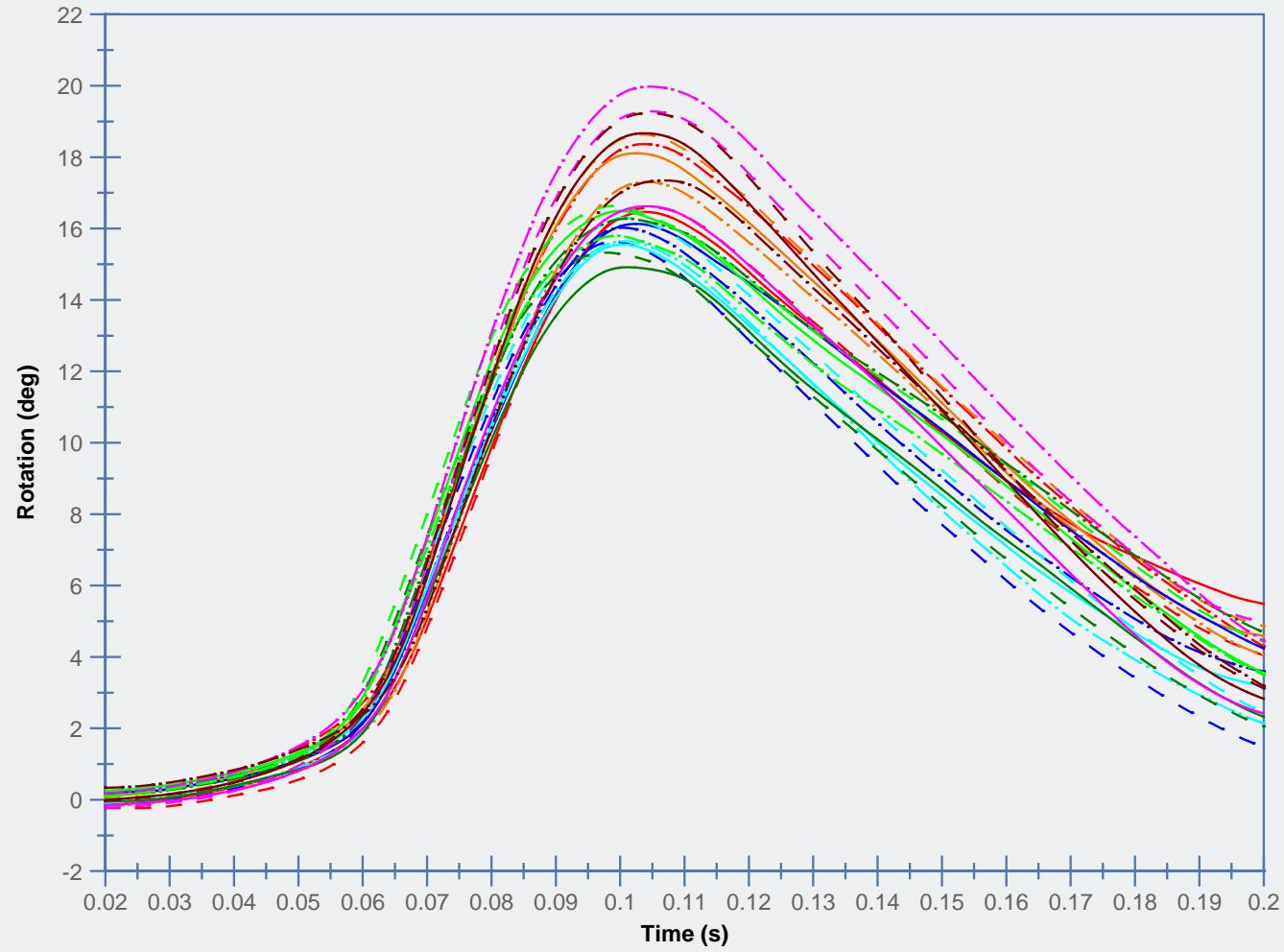
27



Head Rot

28

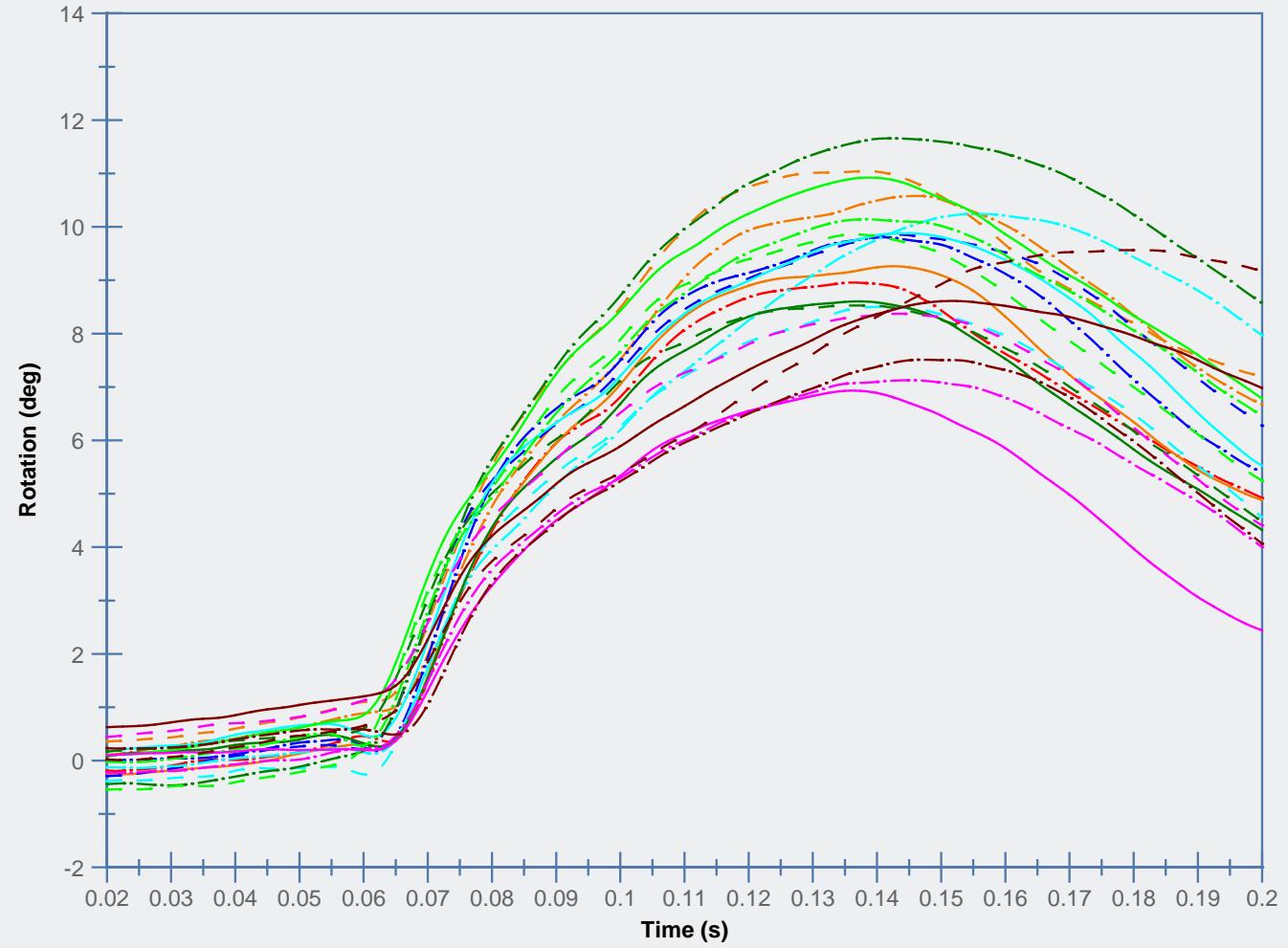
## T1 Y Rotation



T4 Rot

29

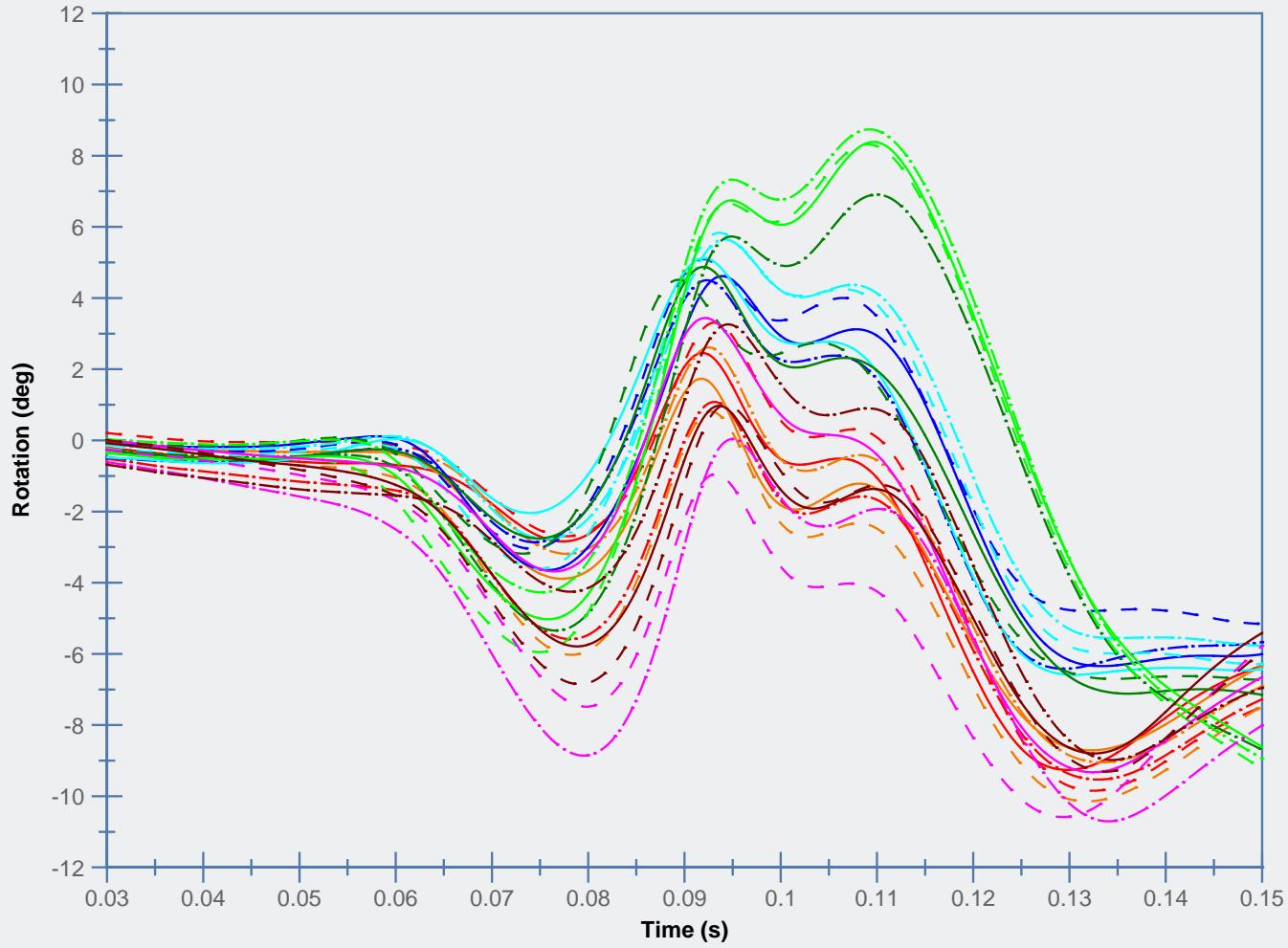
## Pelvis Y Rotation



Pel Rot

30

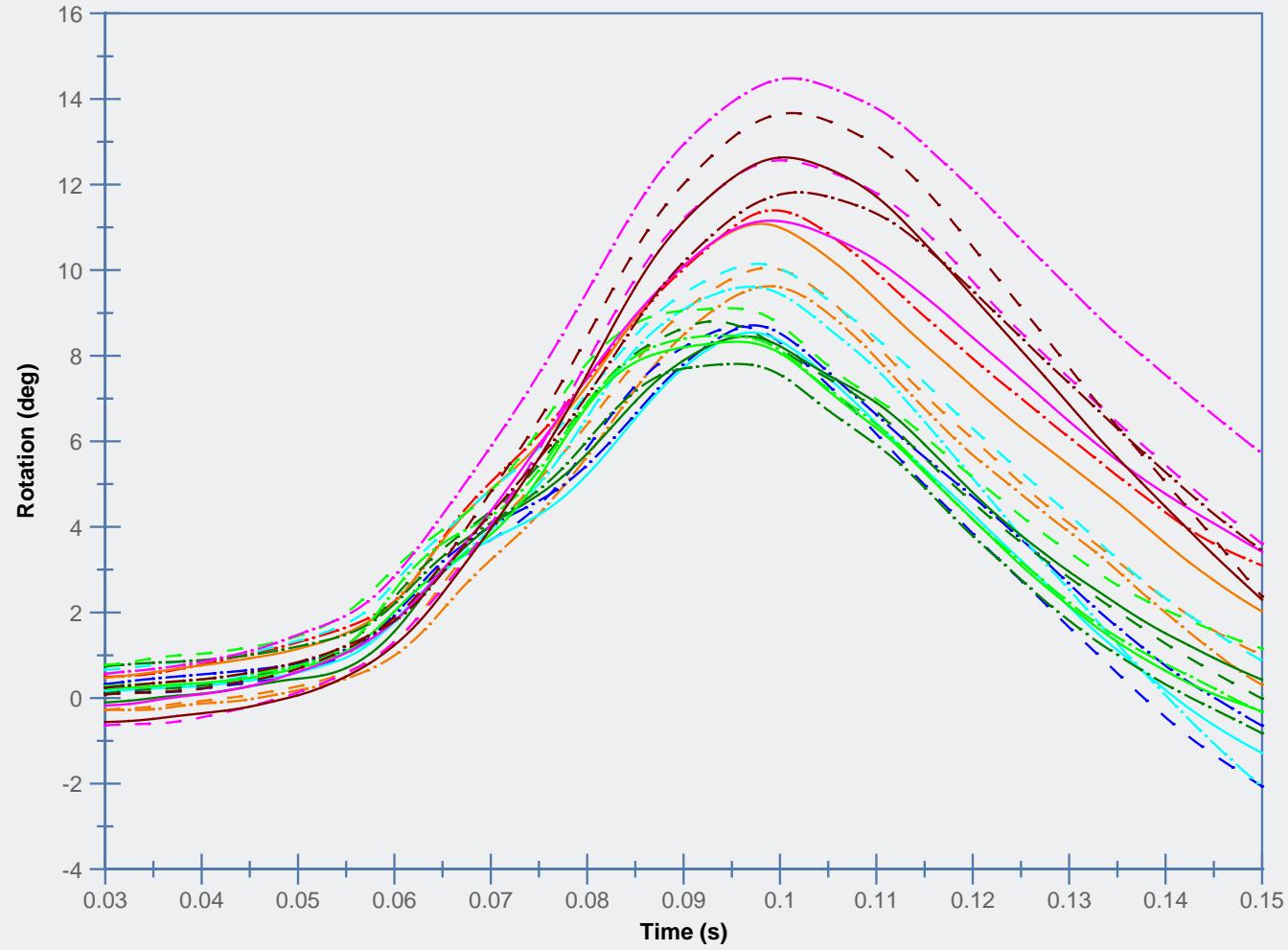
## Head to Chest Y Rotation



Head-T4 Rot

31

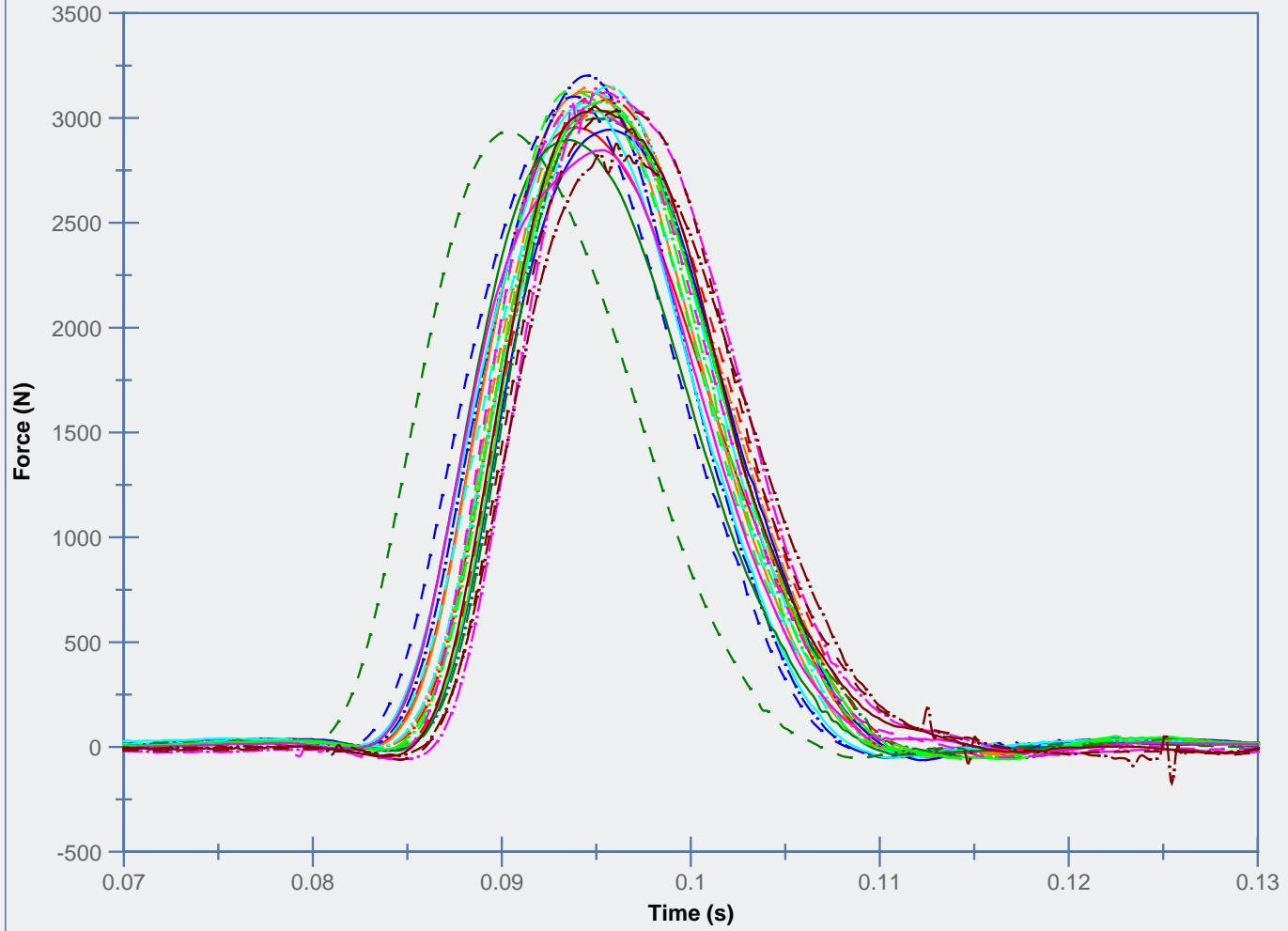
## T1 to Pelvis Y Rotation



T4-Pel Rot

32

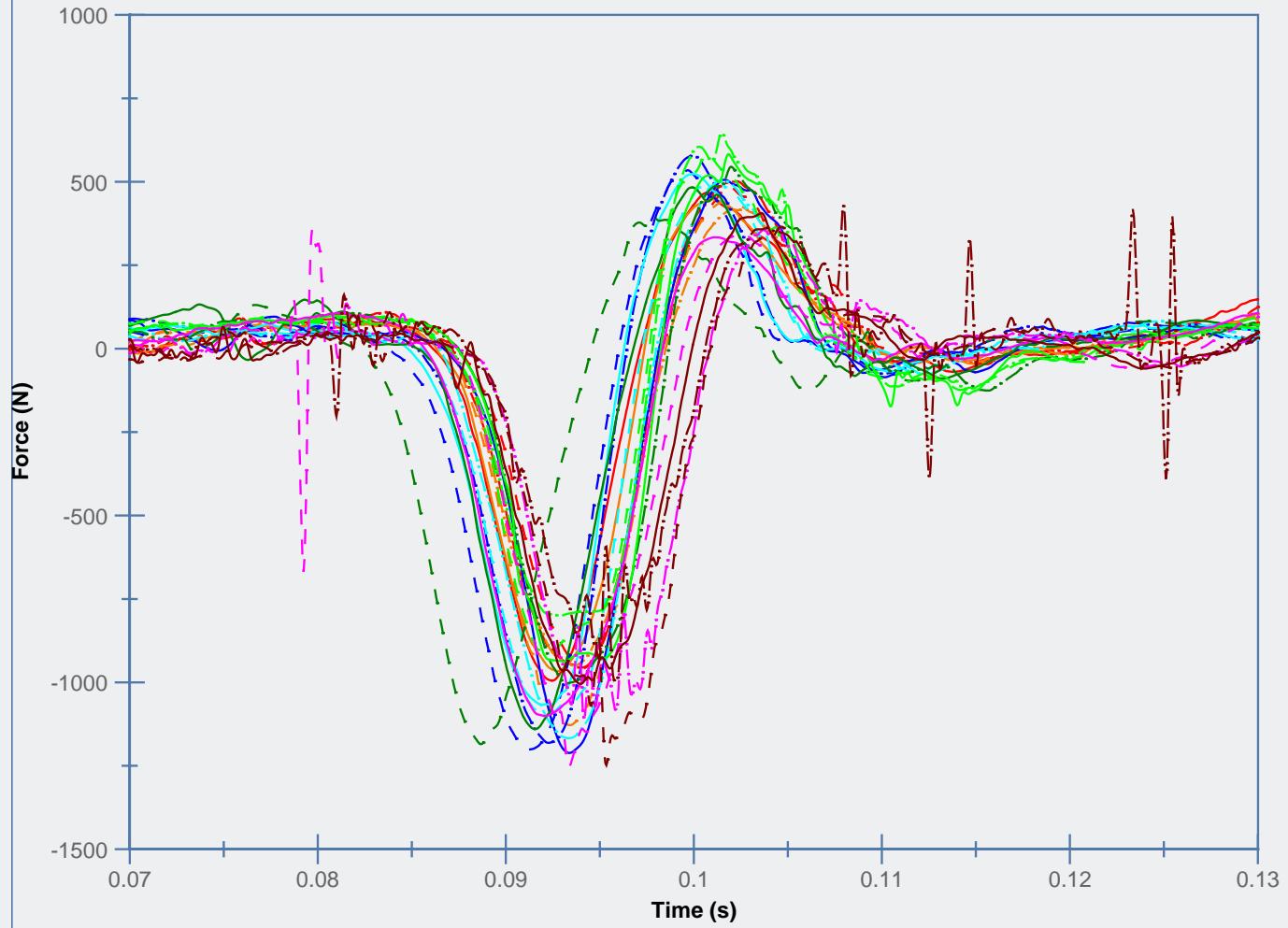
## Head Contact Force X



Head Cont Fx

33

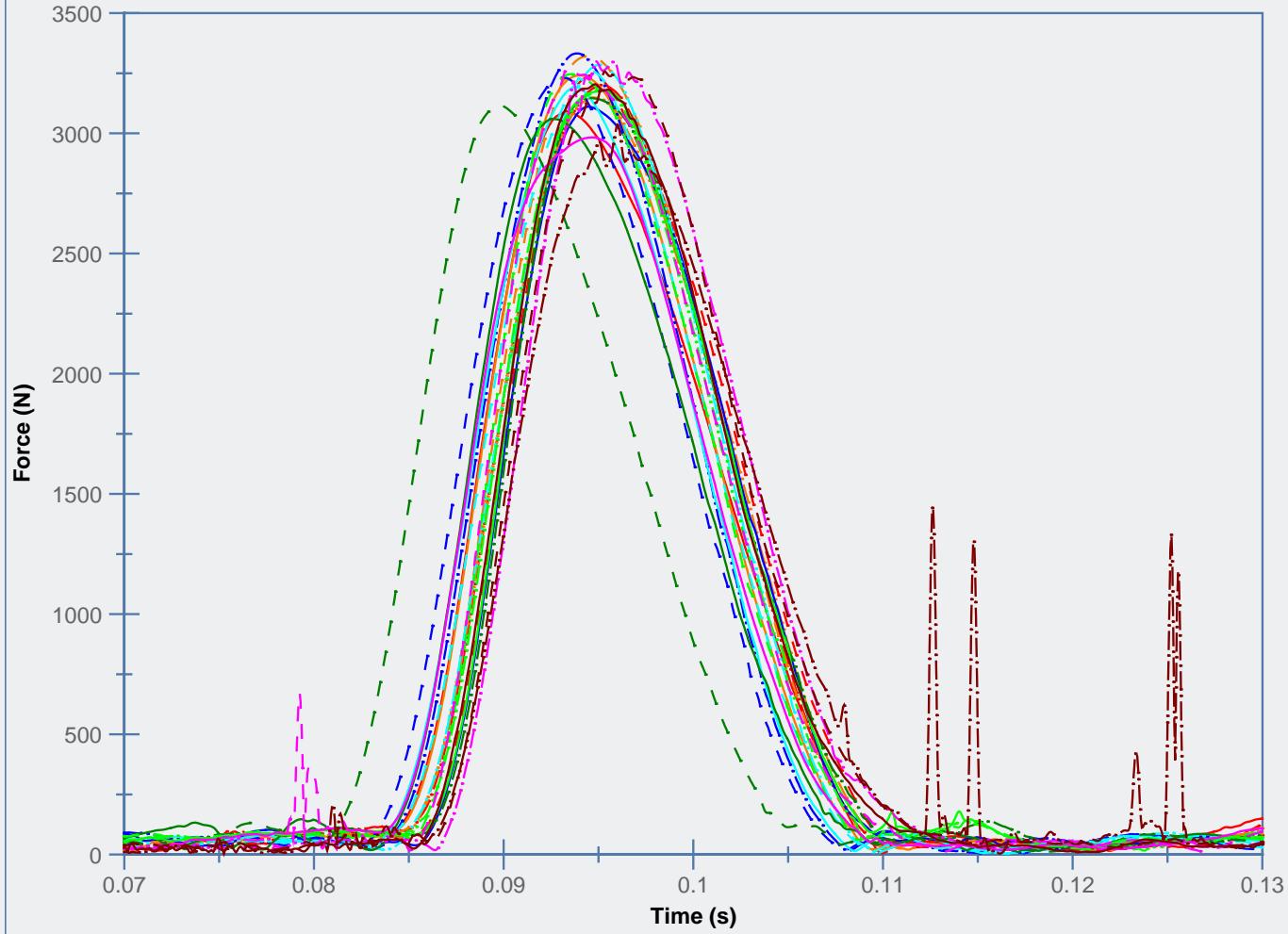
## Head Contact Force Z



Head Cont Fz

34

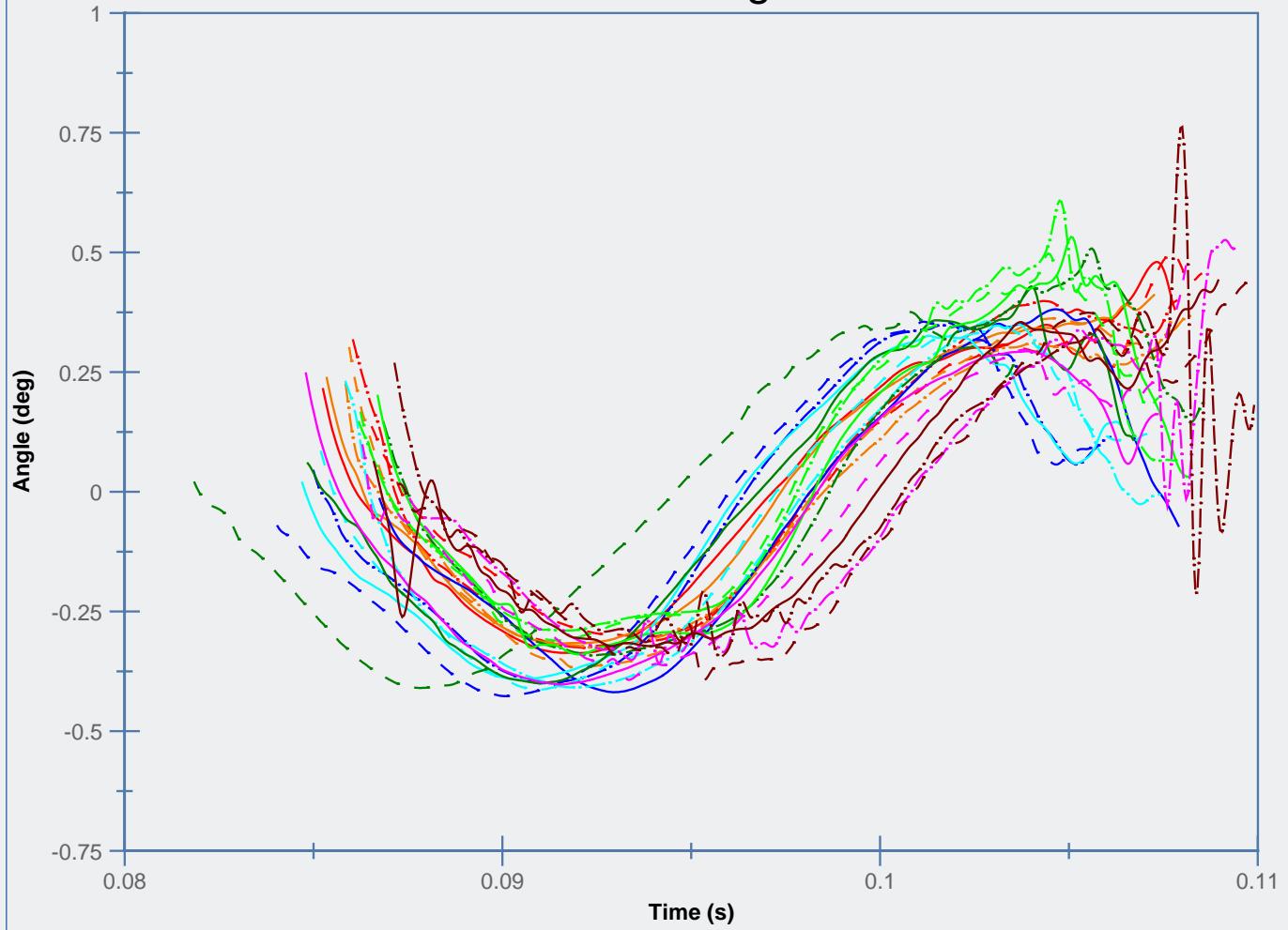
## Head Contact Resultant



Head Cont Result

35

## Head Contact Angle



Head Cont Angle

36