



2004 NHTSA Side NCAP Test Summary

2004/CHEVROLET TRAILBLAZER/4-DOOR MPV/M40110

17 February 2004

	DRIVER		PASSENGER	
	Max	Time	Max	Time
Upper Rib	22.66	58.75	26.55	65.00
Lower Rib	21.00	53.75	27.83	61.88
Spine	29.91	36.25	24.17	65.00
Pelvis	36.96	41.25	29.88	45.62

Preliminary Star Rating

	TTI	Rating
Driver	26.28	*****
Passenger	26.00	*****

Test Details

	English Units		Metric Units	
MDB Test Speed	38.52	MPH	61.99	KMPH
MDB Test Weight	2997.00	LBS	13335.88	N

HIC36 Values

	Value	T1	T2
Driver	53.6	63.6	99.5
Passenger	363.7	62.5	71.1

Test Vehicle Safety Features

				Mount Type
ABS	Yes ▼	Driver Head Bag	No ▼	NONE
Pretensioners	No ▼	Passenger Head Bag	No ▼	NONE
Load Limiter	Yes ▼	Driver Torso Bag	No ▼	NONE
Adj. Anchors	No ▼	Passenger Torso Bag	No ▼	NONE

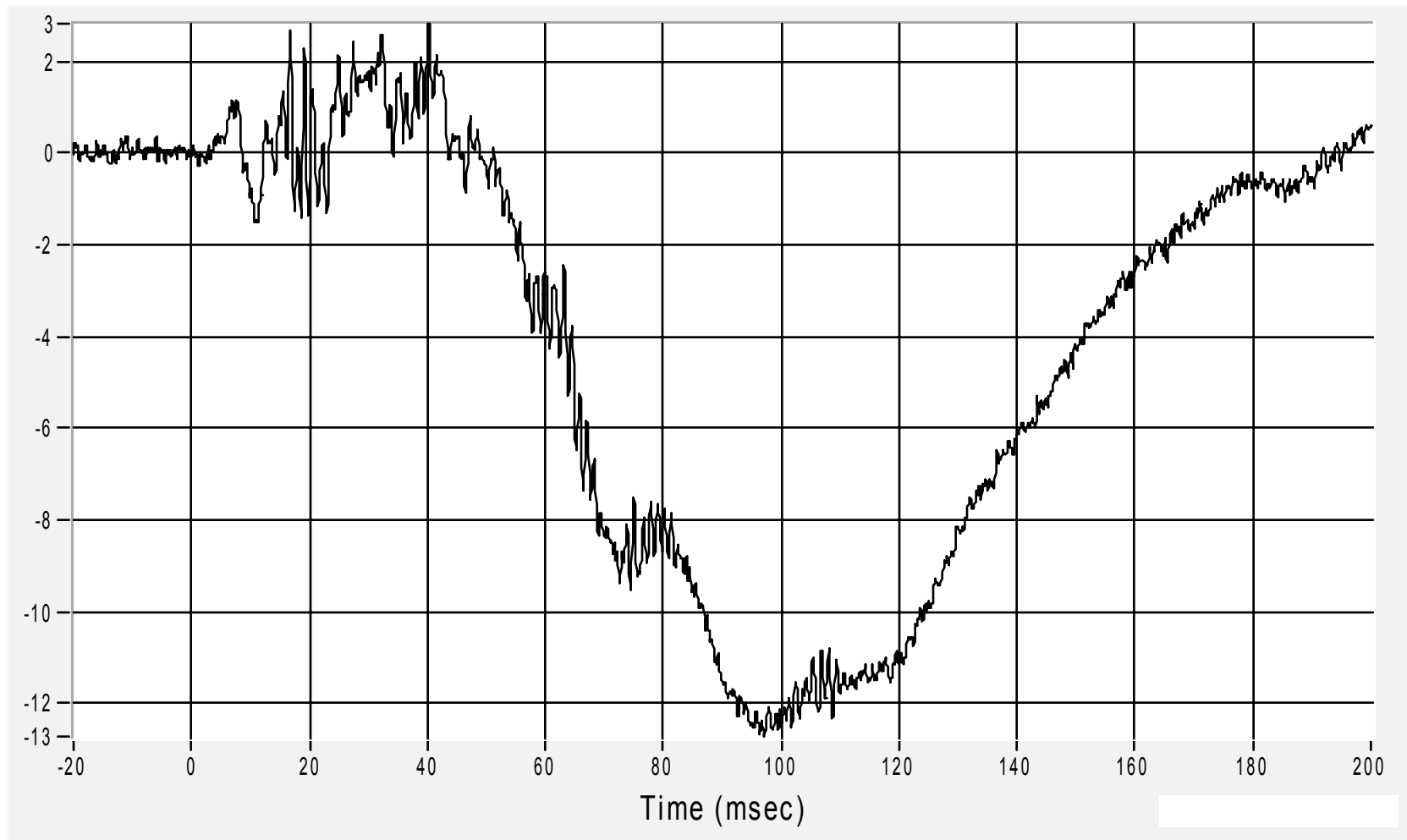
SID Information

	VRTC SID ID	Nine Axis Head
Driver	056 ▼	No ▼
Passenger	058 ▼	No ▼

Comments

Driver Head CG (X) Acceleration

Acceleration (G's) CFC1000

Max 2.8 G at 40.3 msec**Min -12.7 G at 97.1 msec**

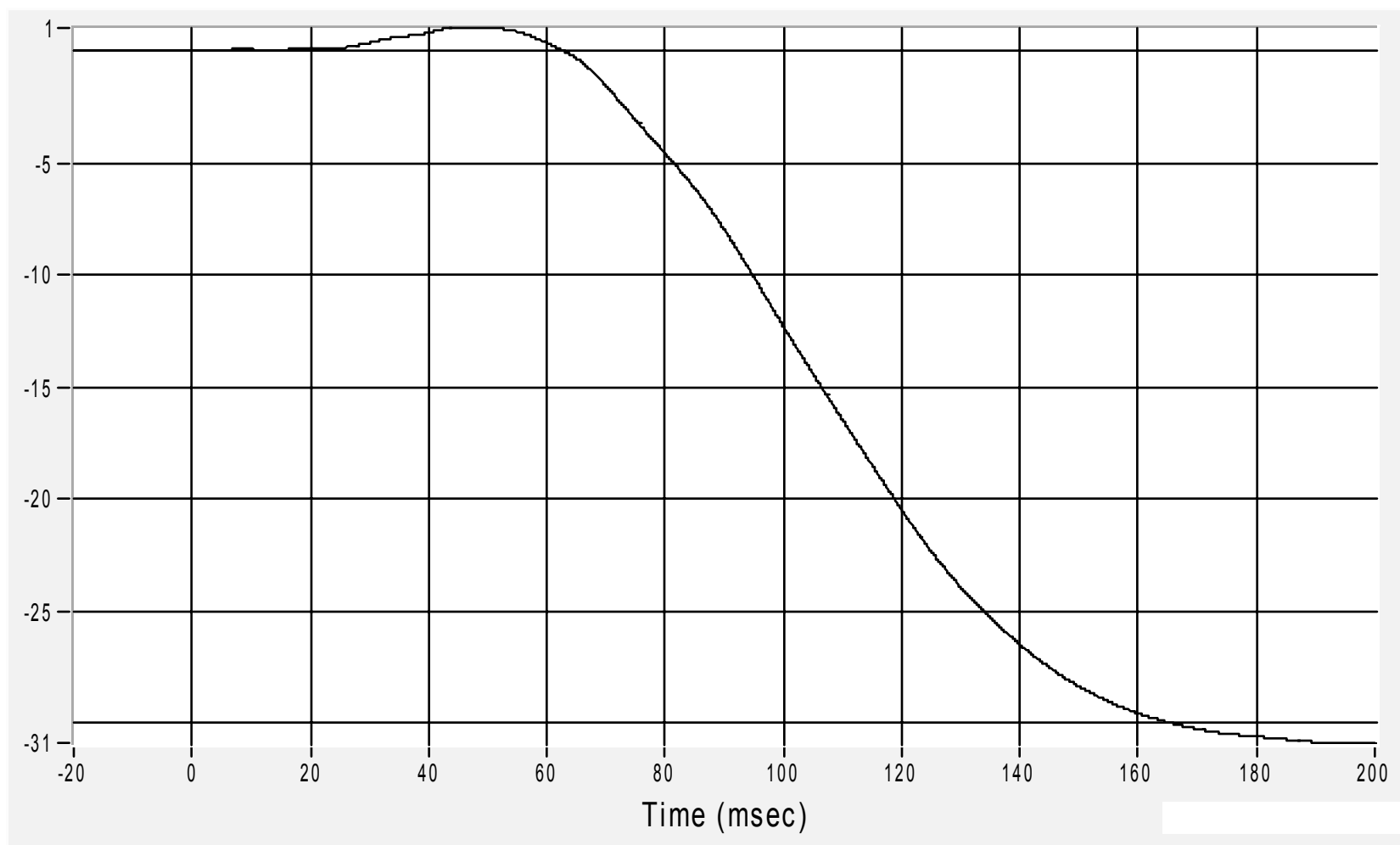
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Driver Head CG (X) Velocity

Velocity (km/h) CFC180

Max 1.0 km/h at 48.9 msec**Min -30.9 km/h at 195.4 msec**

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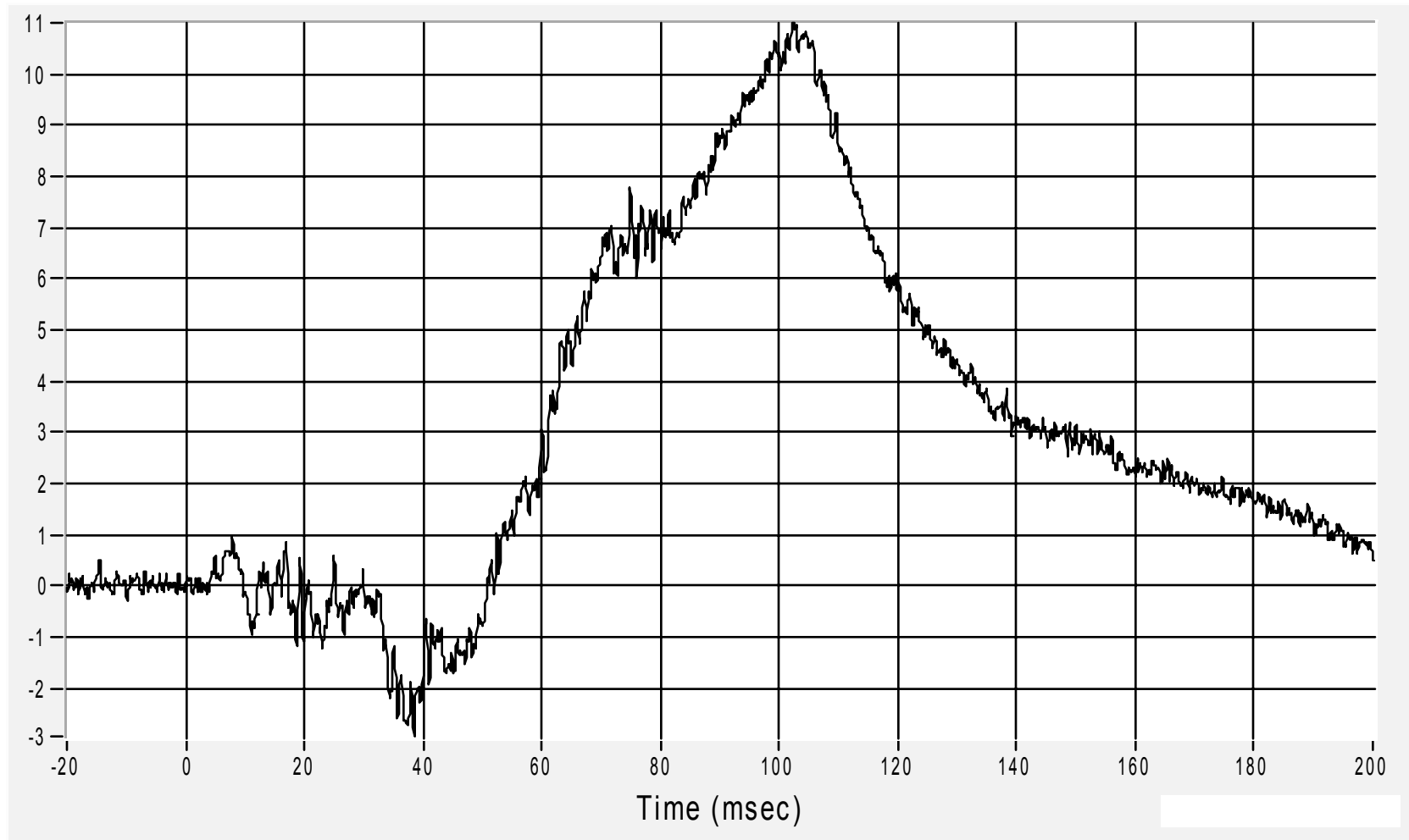
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Driver Head CG (Y) Acceleration

Acceleration (G's) CFC1000

Max 11.0 G at 102.2 msec

Min -2.9 G at 38.5 msec



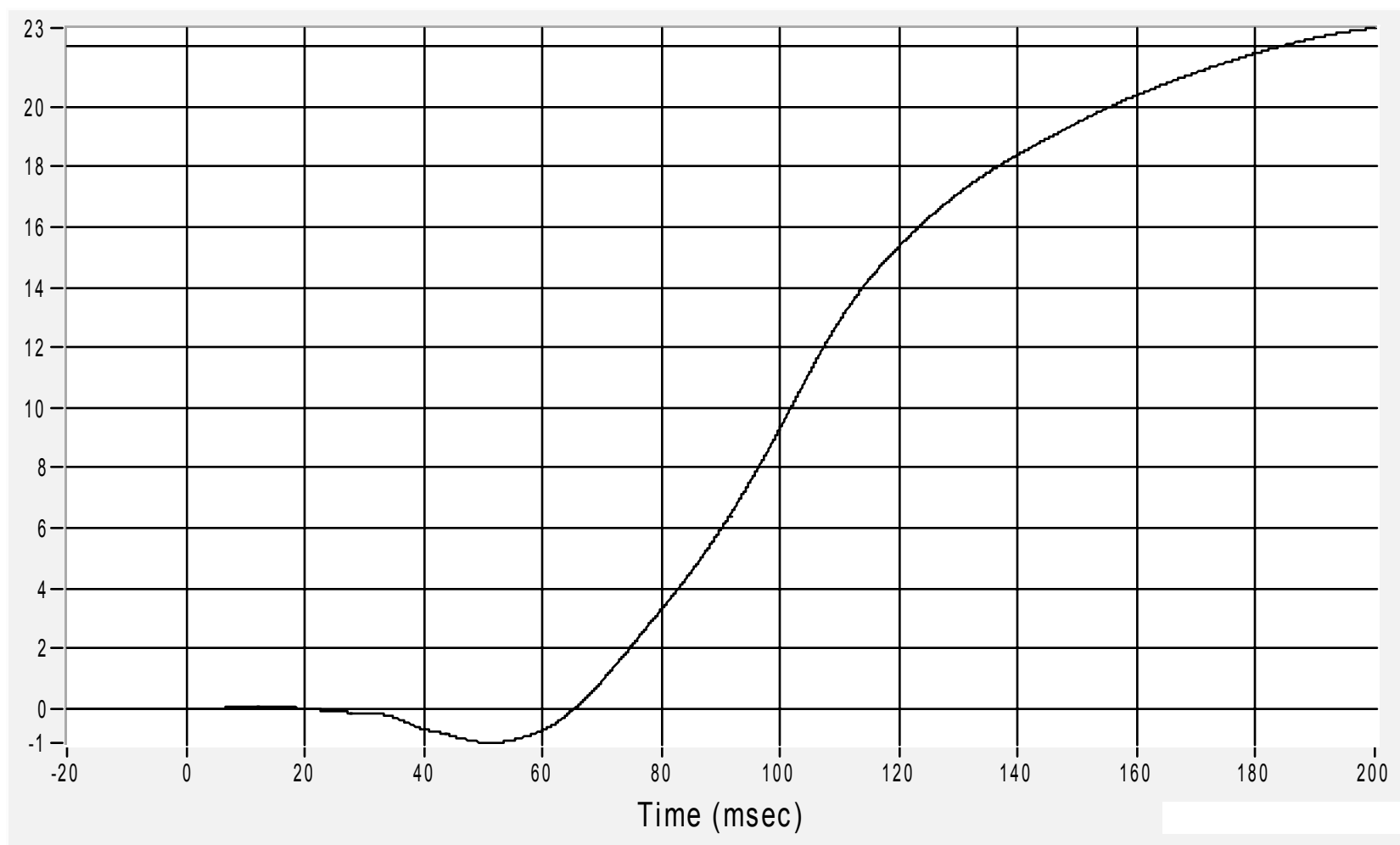
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Driver Head CG (Y) Velocity

Velocity (km/h) CFC180

Max 22.6 km/h at 199.9 msec**Min -1.1 km/h at 51.0 msec**

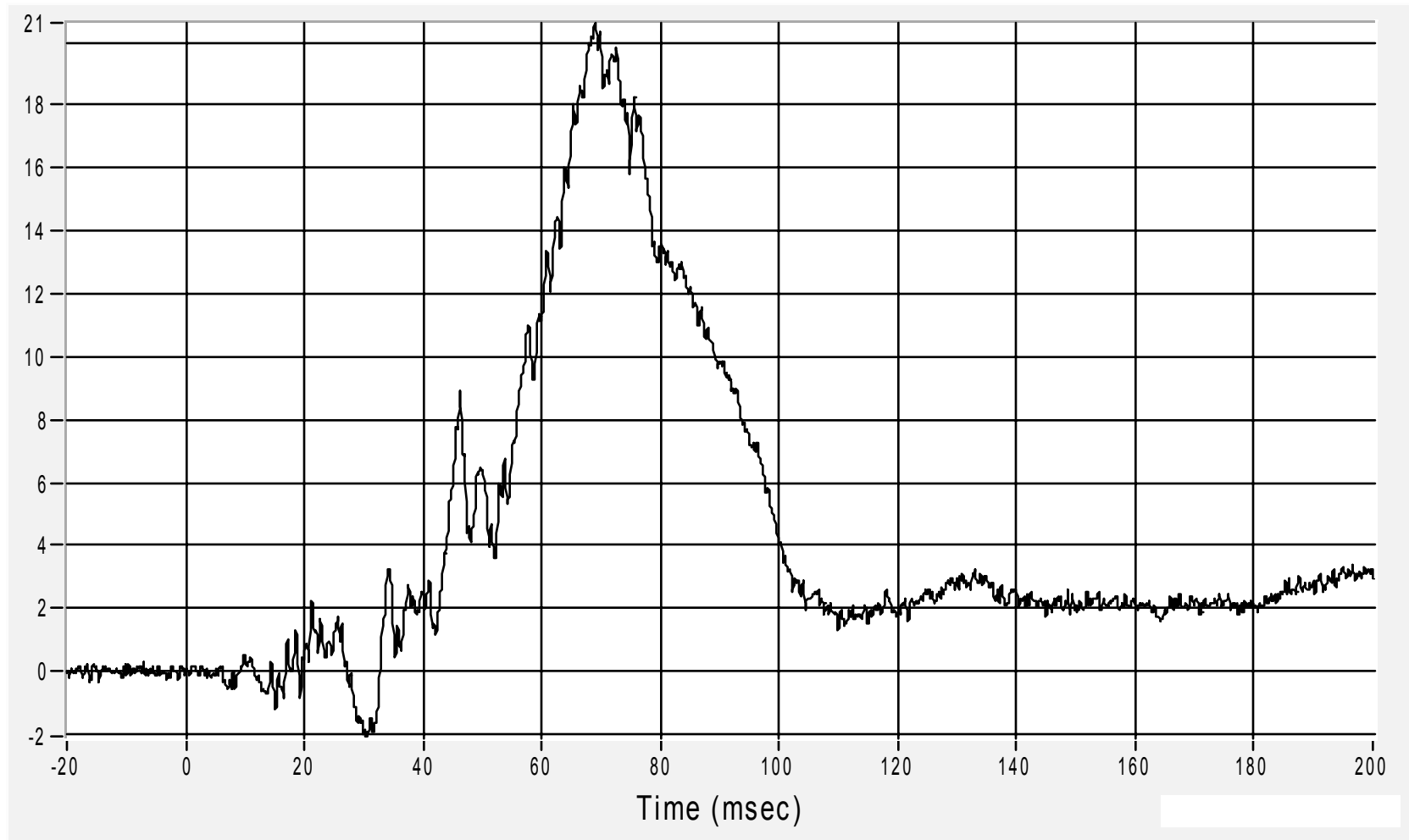
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Driver Head CG (Z) Acceleration

Acceleration (G's) CFC1000

Max 20.6 G at 69.0 msec**Min -2.1 G at 30.4 msec**

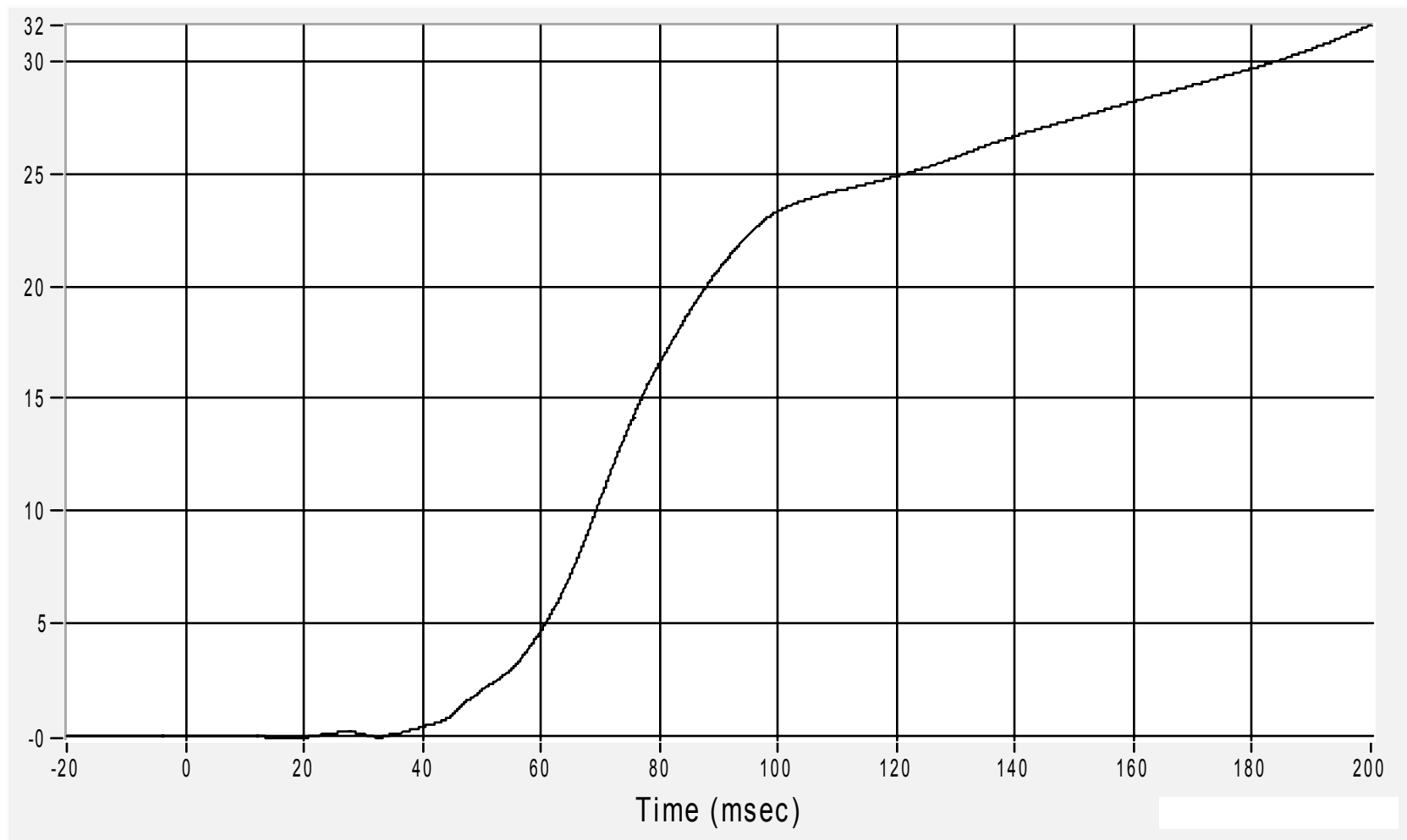
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Driver Head CG (Z) Velocity

Velocity (km/h) CFC180

Max 31.6 km/h at 199.9 msec**Min 0.0 km/h at 16.7 msec**

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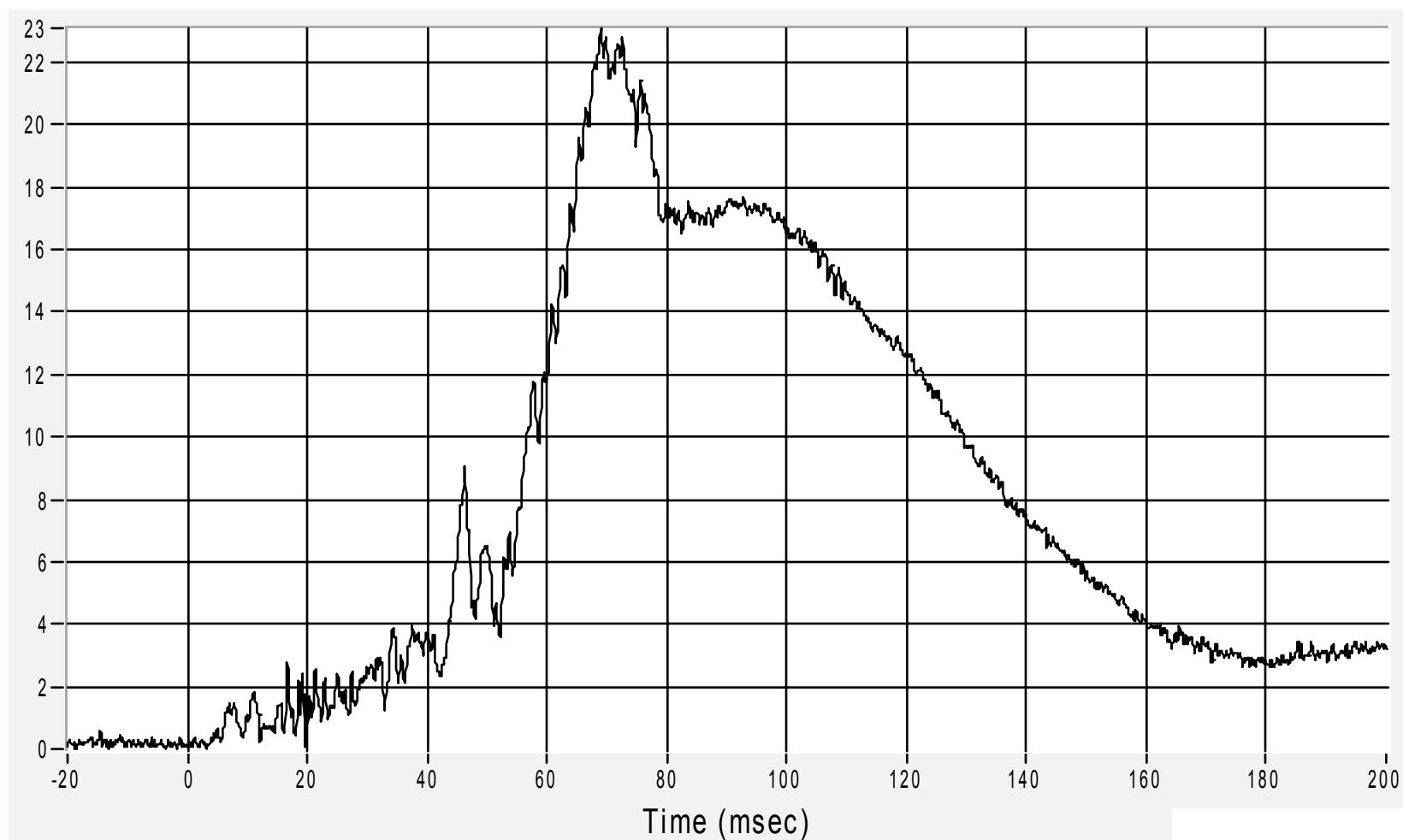
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Driver Head Resultant Acceleration

Acceleration (G's) CFC1000

Max 23.1 G's at 69.0 msec

Min 0.0 G's at 3.0 msec



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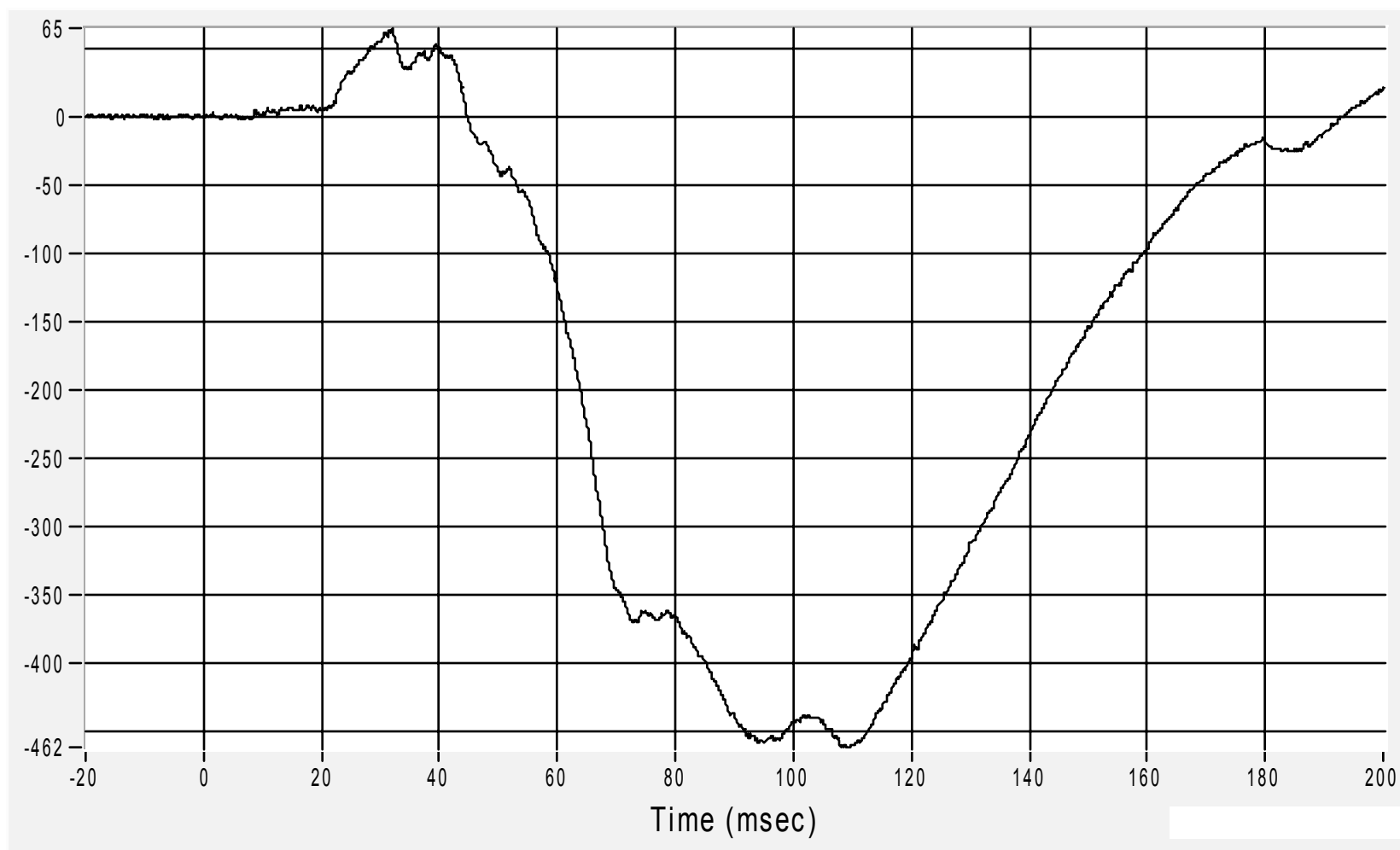
Driver Upper Neck (X) Force

Force (N)

CFC1000

Max 64.9 N at 32.0 msec

Min -462.3 N at 109.2 msec



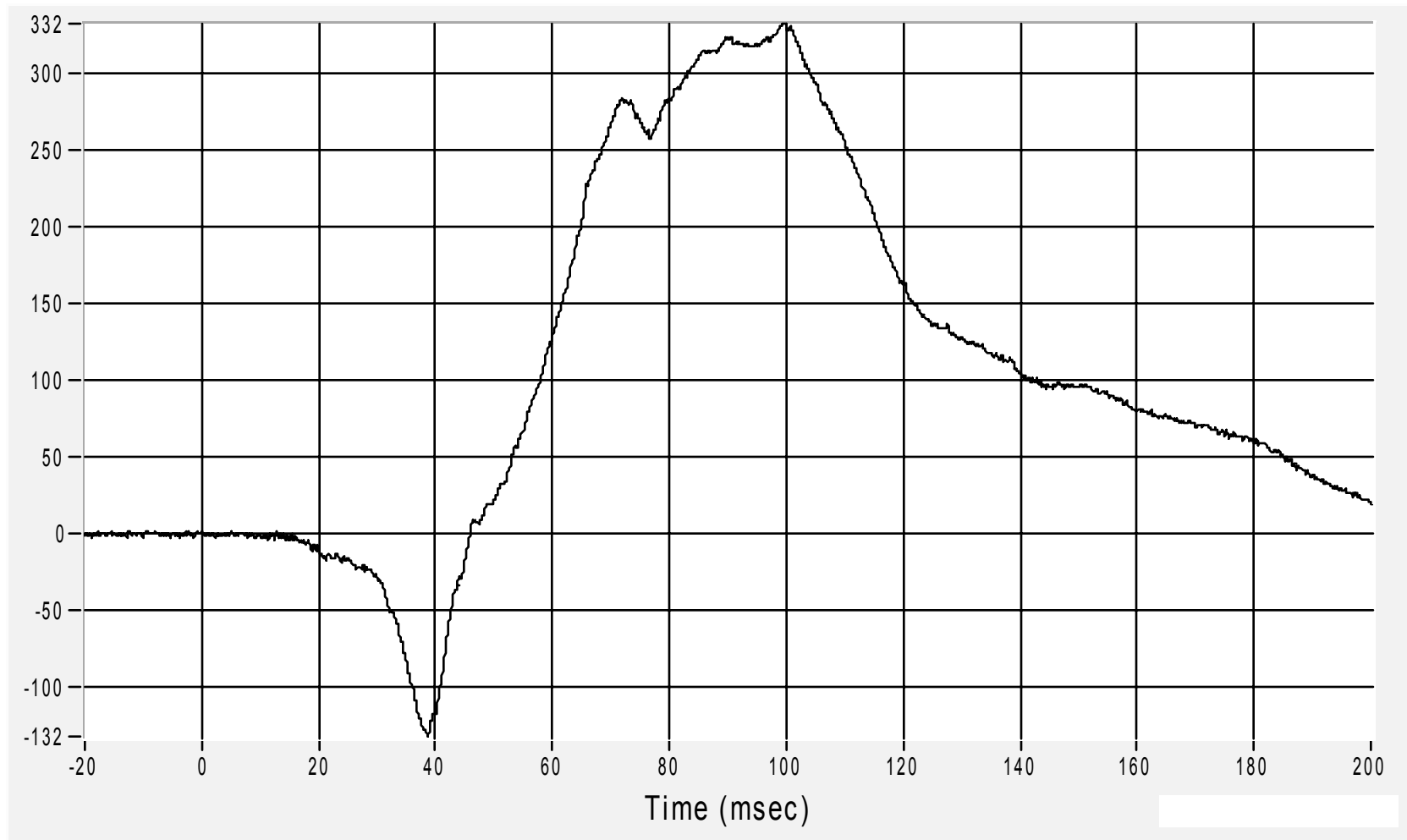
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Driver Upper Neck (Y) Force

Force (N) CFC1000

Max 332.2 N at 99.5 msec**Min -131.6 N at 38.7 msec**

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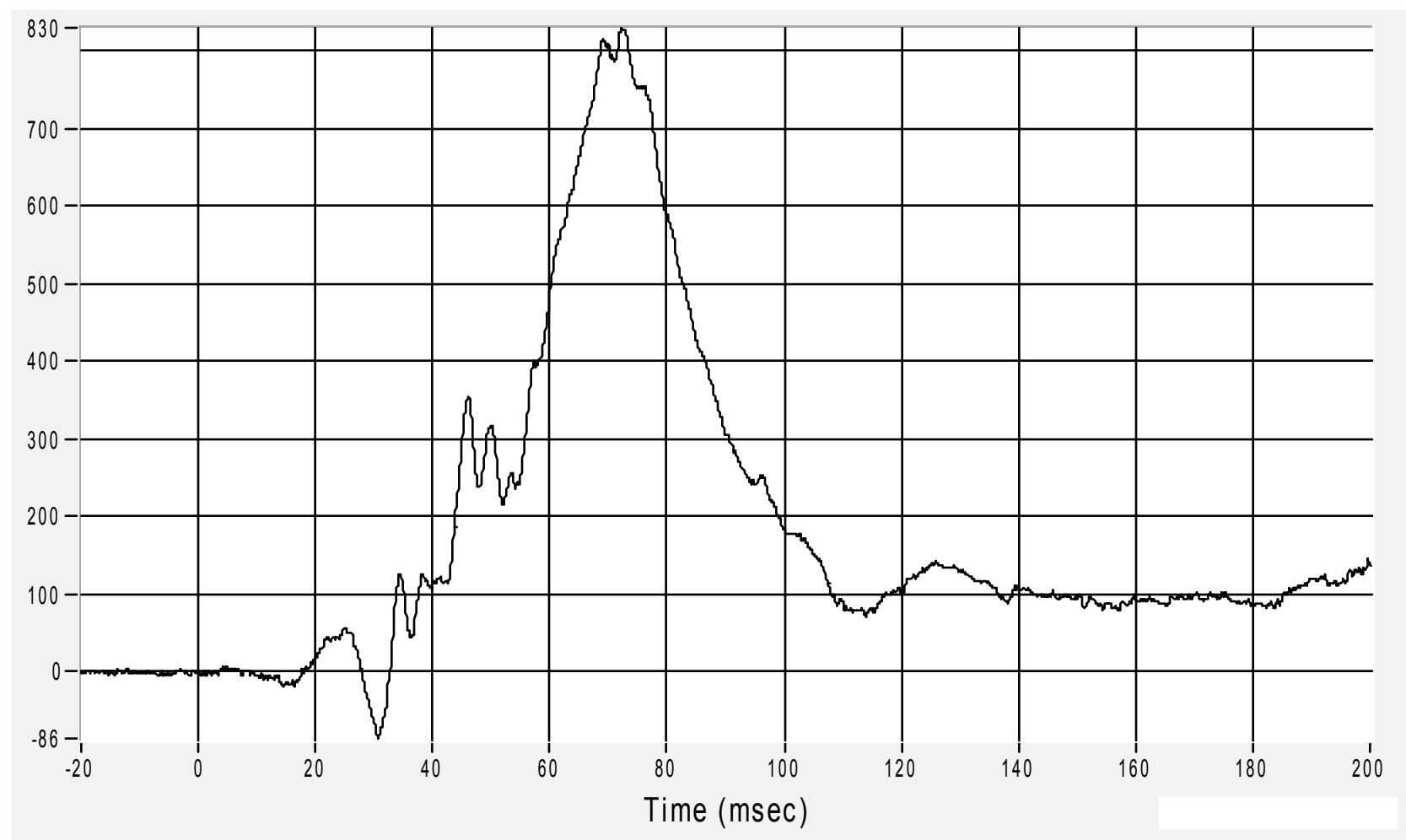
Driver Upper Neck (Z) Force

Force (N)

CFC1000

Max 830.0 N at 72.3 msec

Min -86.3 N at 30.6 msec



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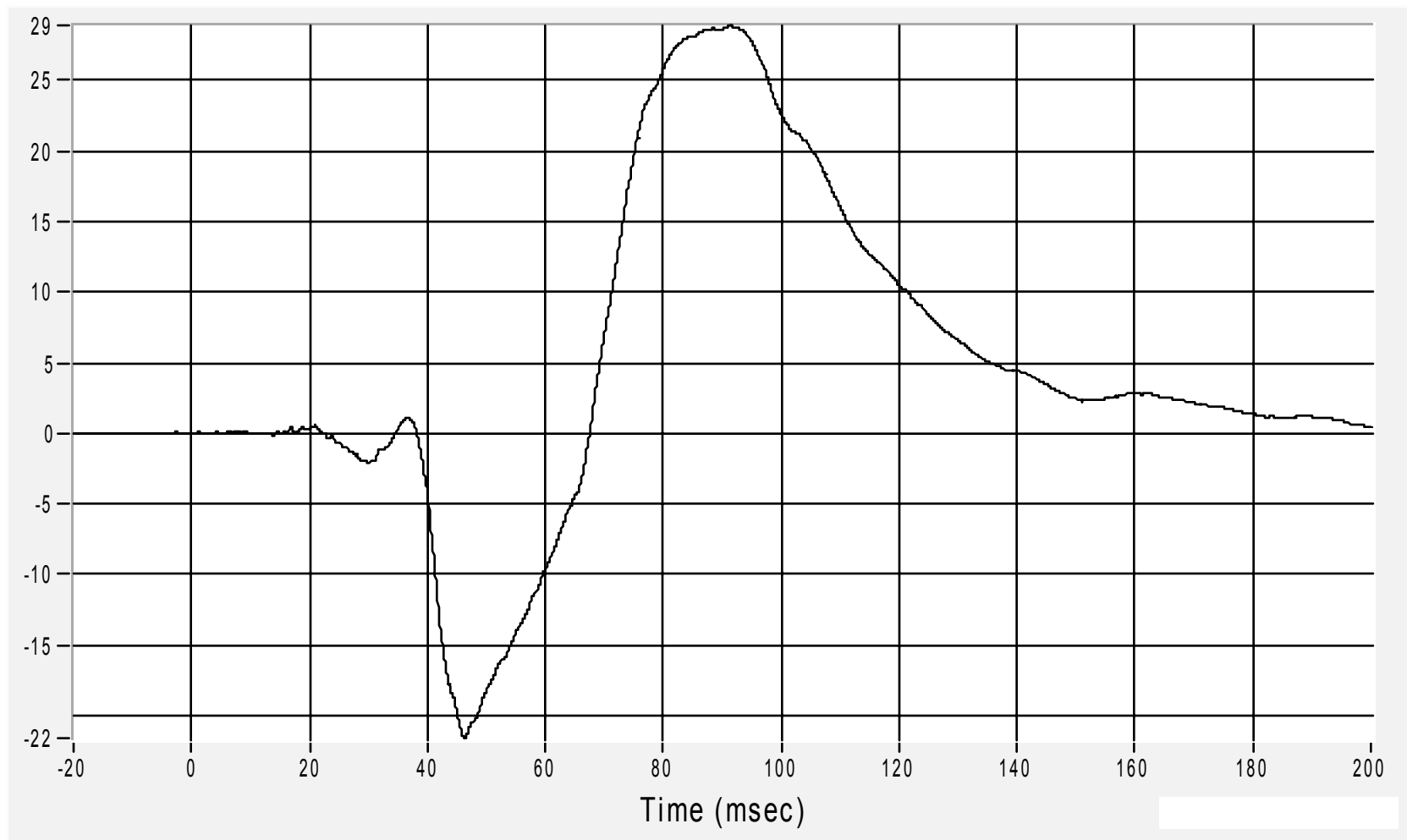
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Driver Upper Neck (X) Moment

Moment (Nm) CFC600

Max 28.9 Nm at 91.3 msec

Min -21.6 Nm at 46.3 msec



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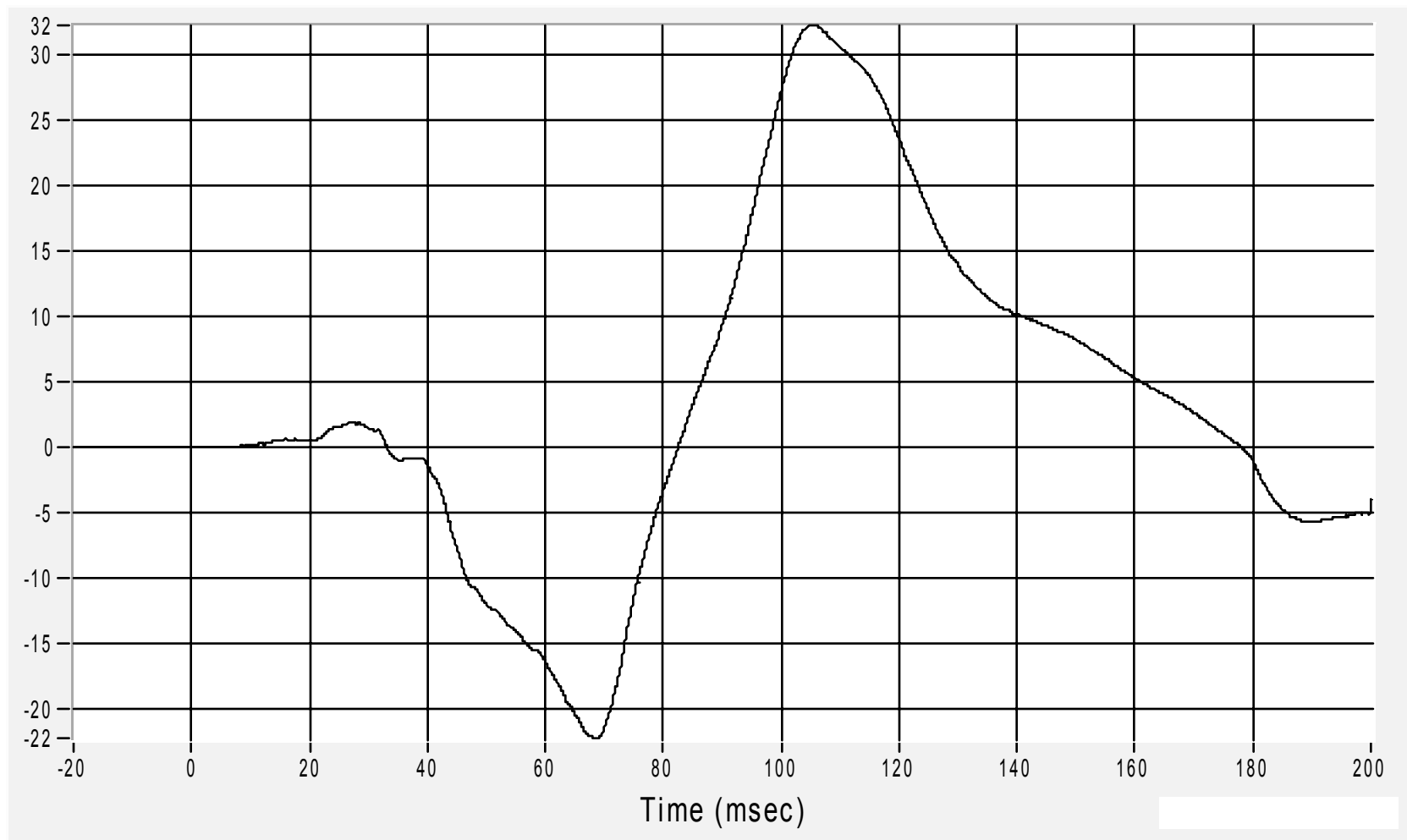
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Driver Upper Neck (Y) Moment

Moment (Nm) CFC600

Max 32.2 Nm at 105.5 msec

Min -22.2 Nm at 68.7 msec



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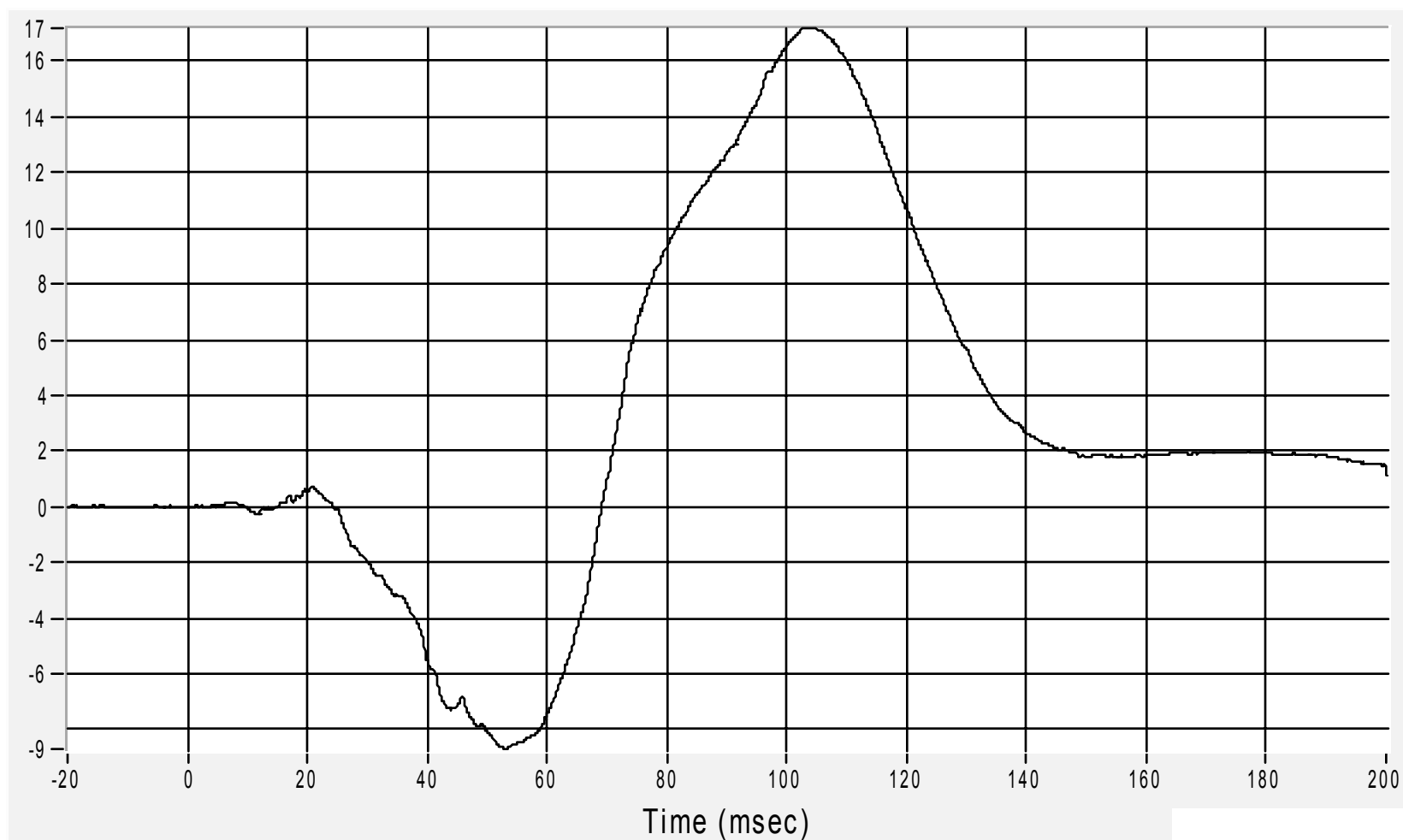
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Driver Upper Neck (Z) Moment

Moment (Nm) CFC600

Max 17.2 Nm at 104.7 msec

Min -8.7 Nm at 53.2 msec



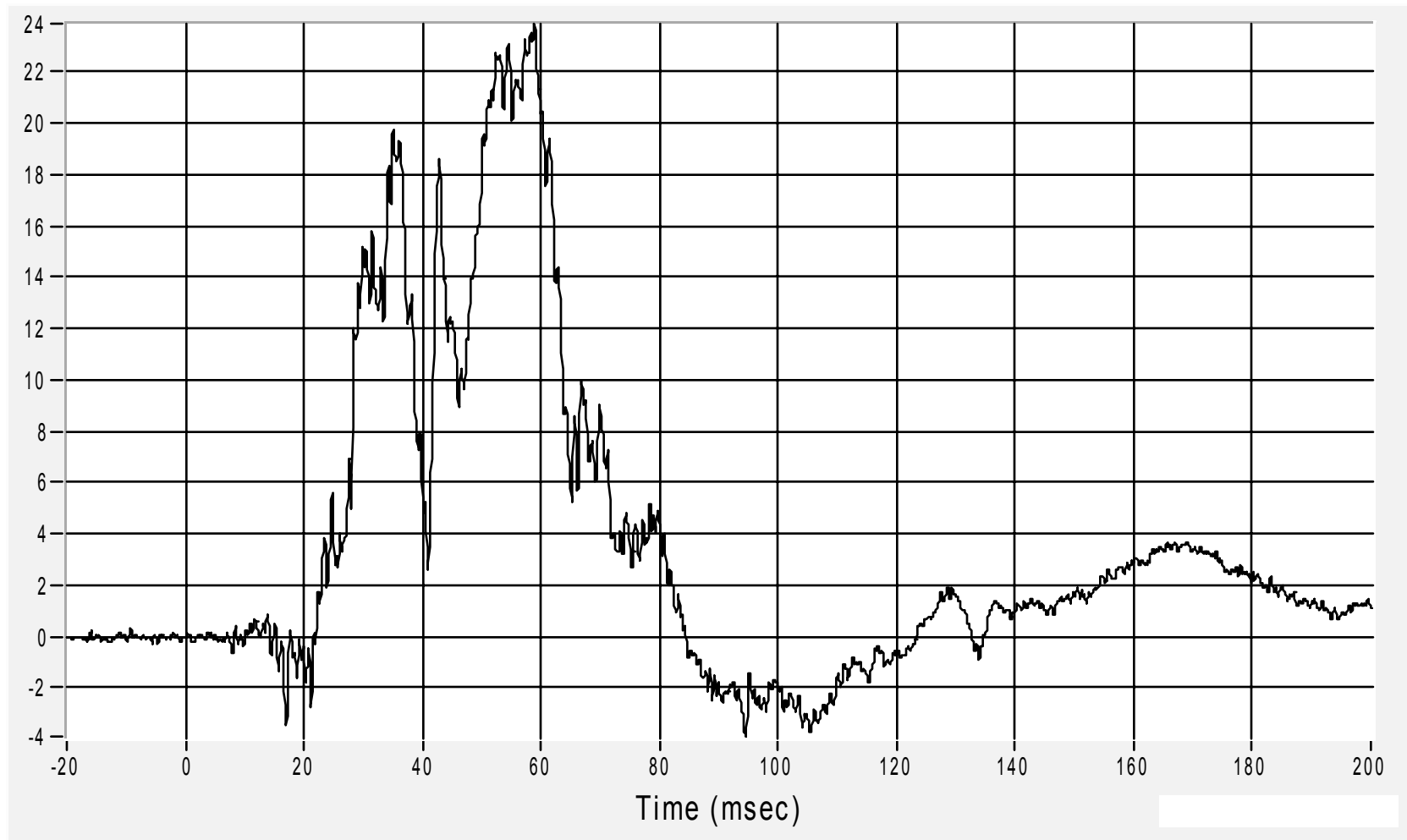
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Driver Upper Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 23.9 G at 58.9 msec**Min -3.9 G at 94.5 msec**

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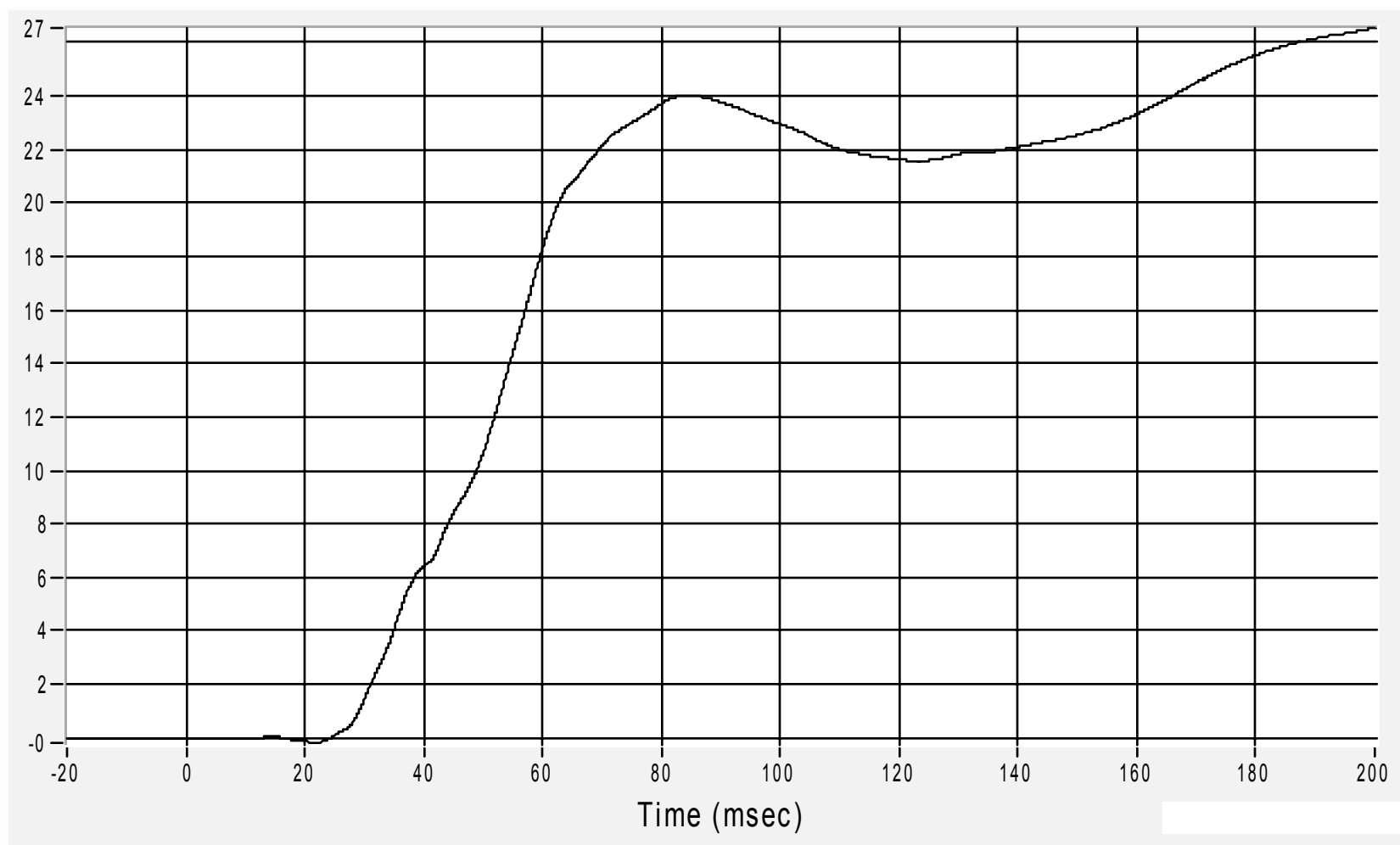
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Driver Upper Rib (Y) Velocity

Velocity (km/h) CFC180

Max 26.5 km/h at 199.9 msec

Min -0.2 km/h at 21.8 msec



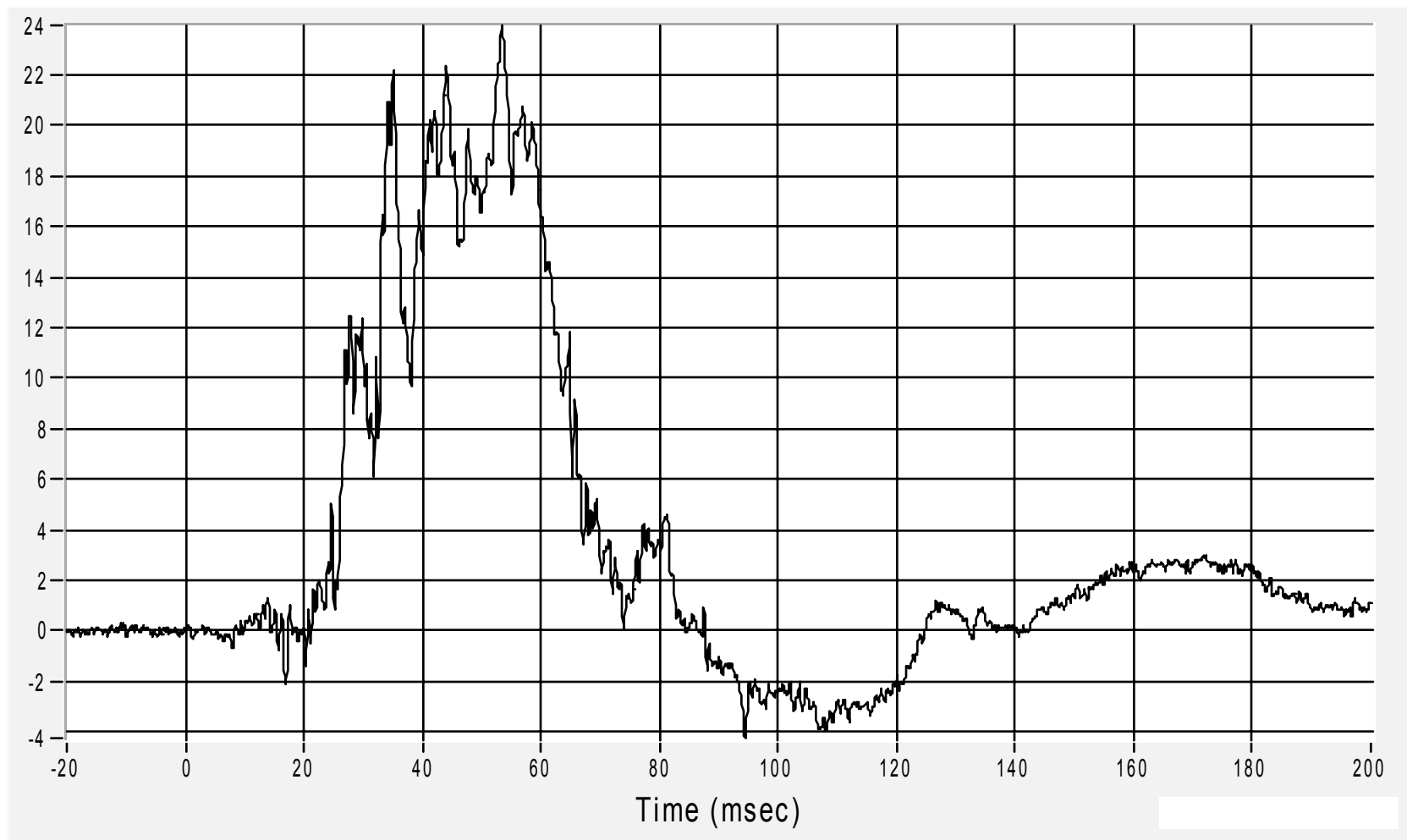
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Driver Lower Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 24.0 G at 53.4 msec**Min -4.3 G at 94.4 msec**

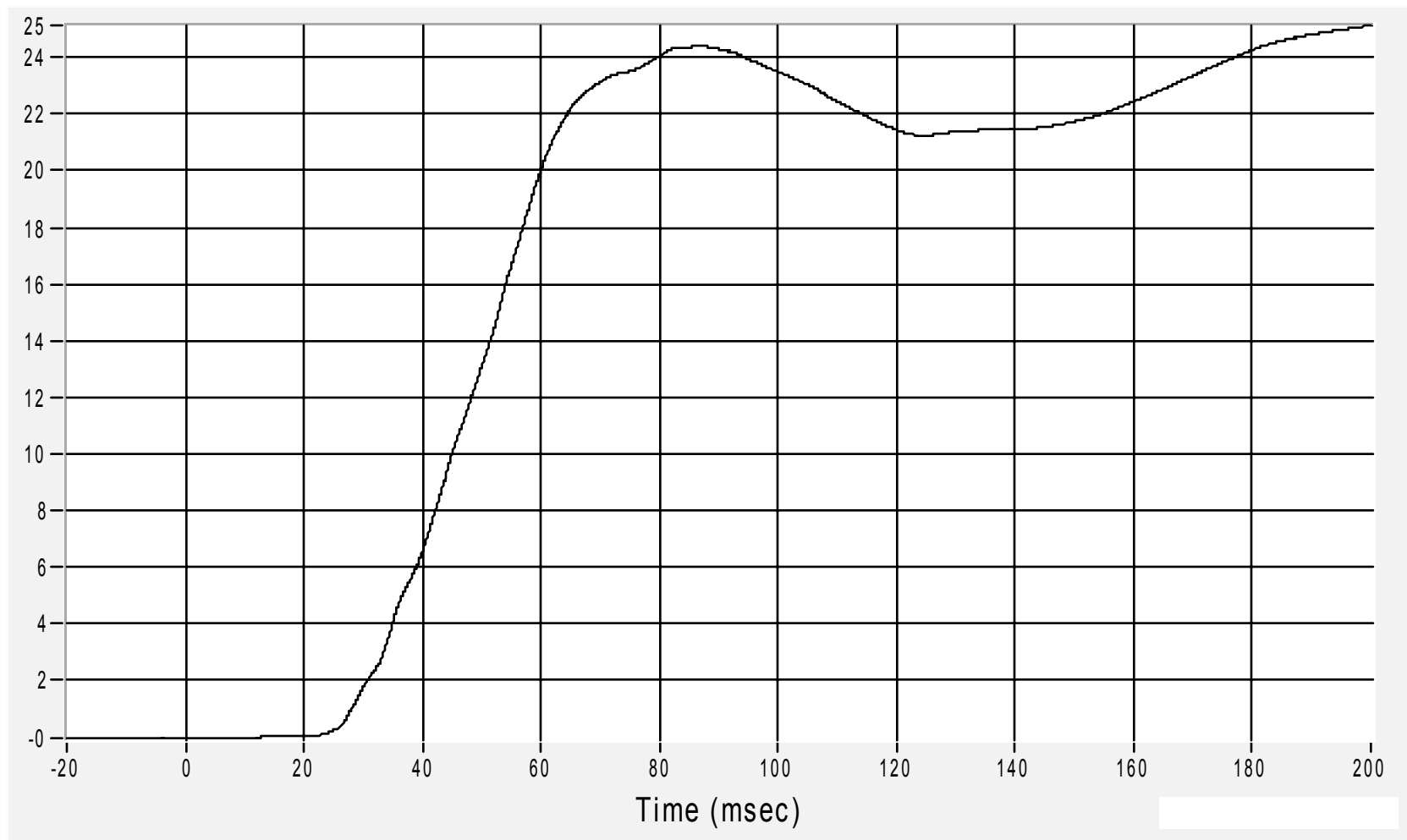
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Driver Lower Rib (Y) Velocity

Velocity (km/h) CFC180

Max 25.1 km/h at 199.9 msec**Min 0.0 km/h at 8.9 msec**

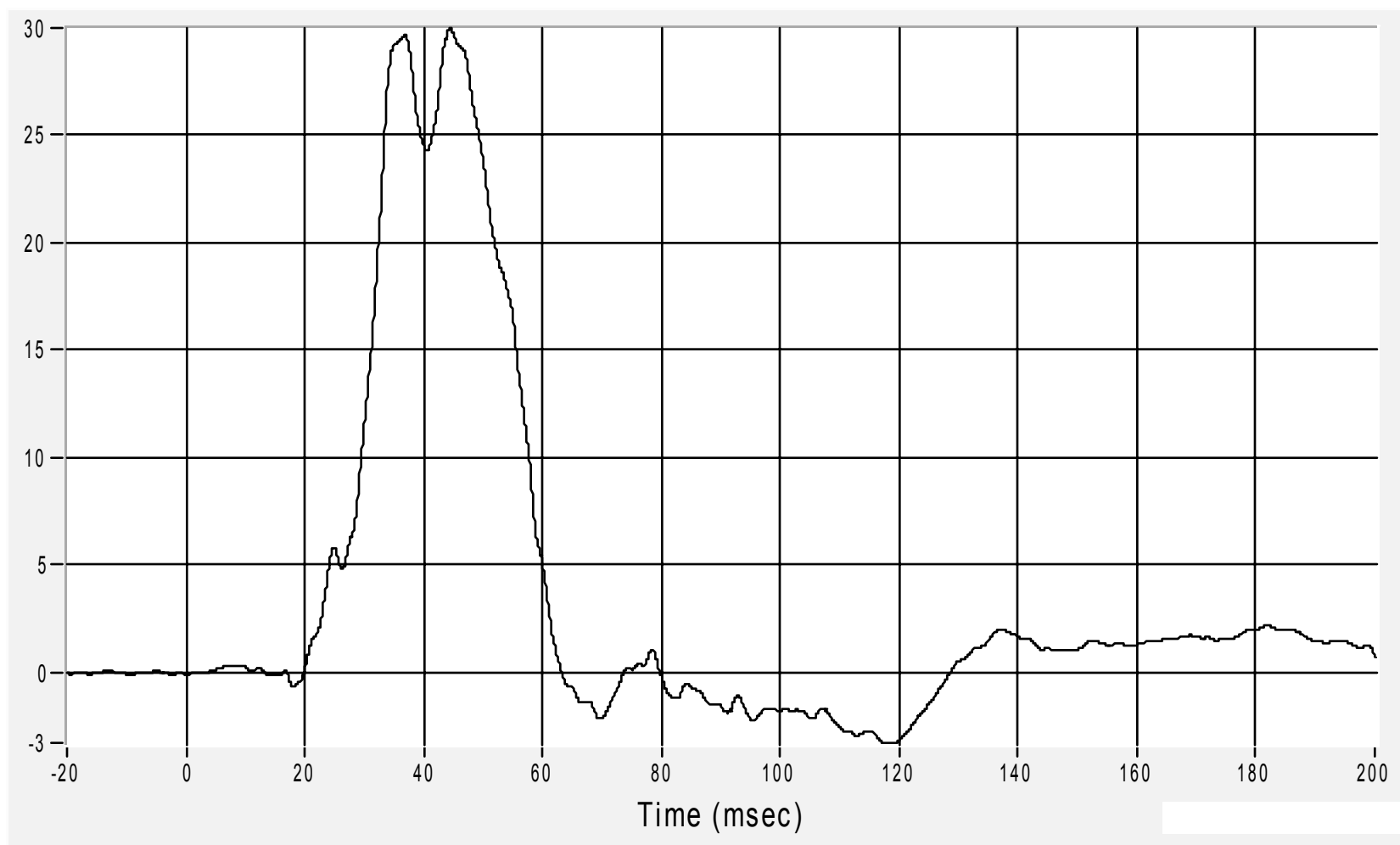
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Driver Lower Spine (Y) Acceleration

Acceleration (G's) CFC180

Max 29.9 G at 44.5 msec**Min -3.2 G at 117.4 msec**

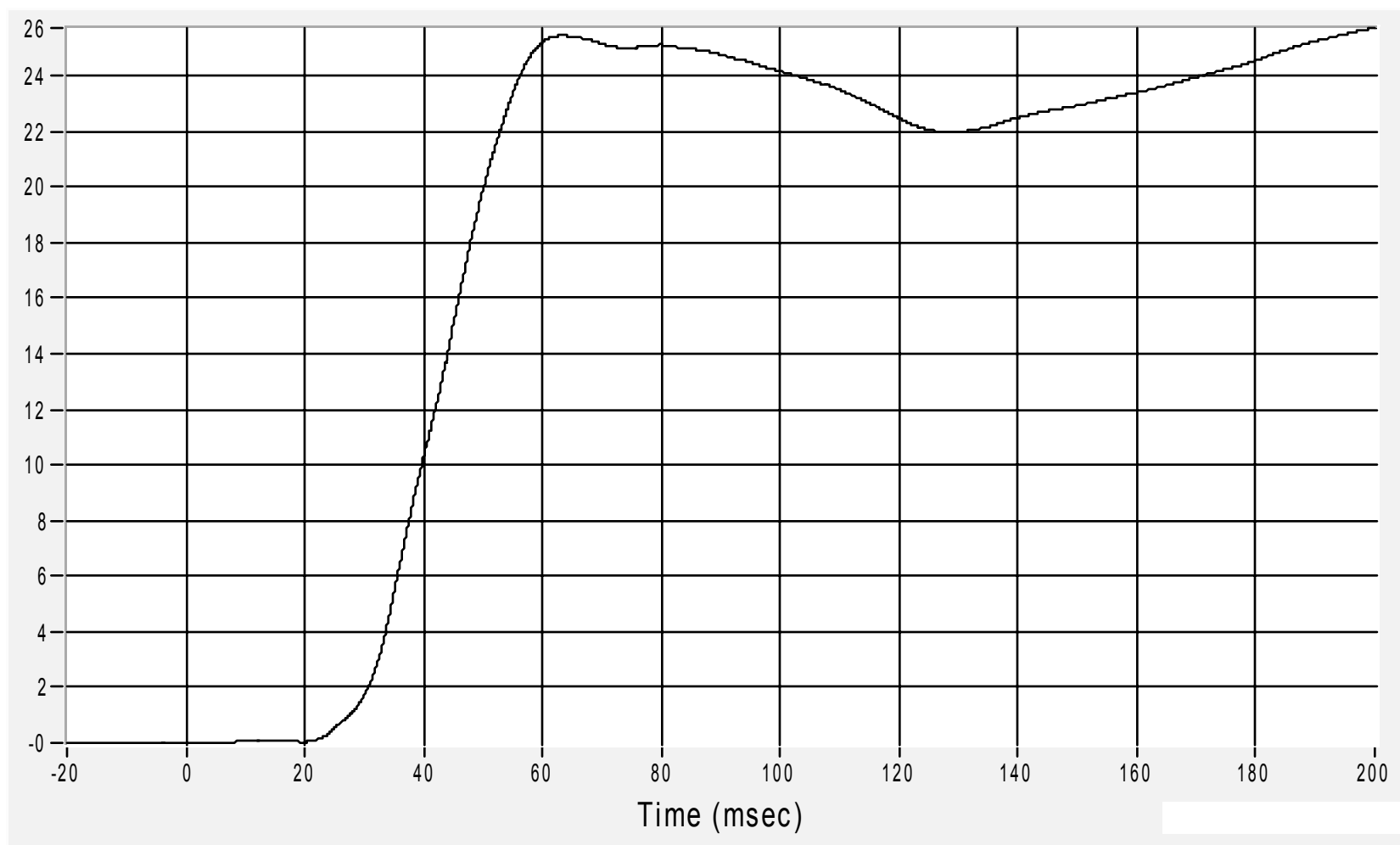
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Driver Lower Spine (Y) Velocity

Velocity (km/h) CFC180

Max 25.7 km/h at 199.9 msec**Min 0.0 km/h at 3.0 msec**

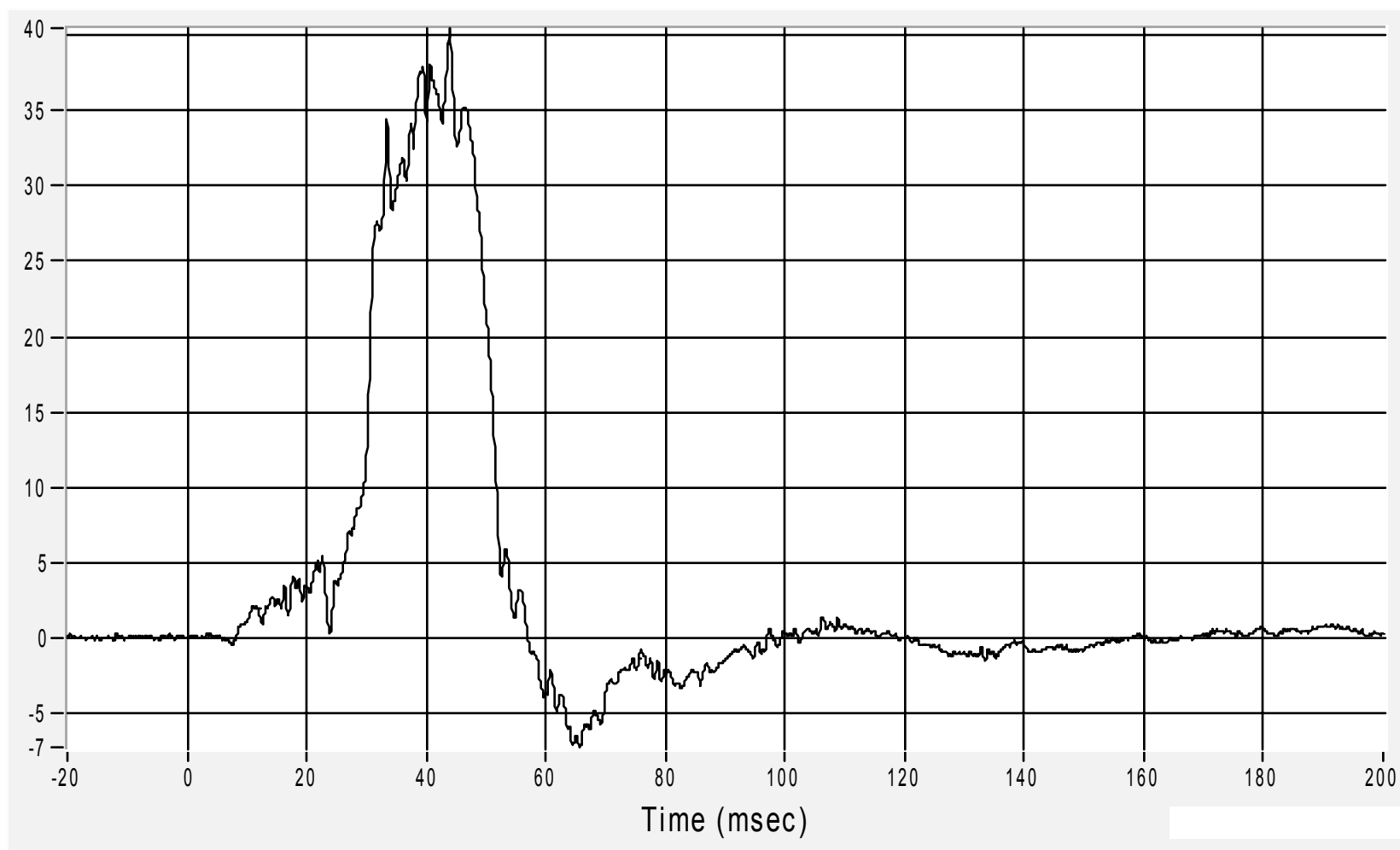
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Driver Pelvic (Y) Acceleration

Acceleration (G's) CFC1000

Max 40.5 G at 43.9 msec**Min -7.3 G at 65.6 msec**

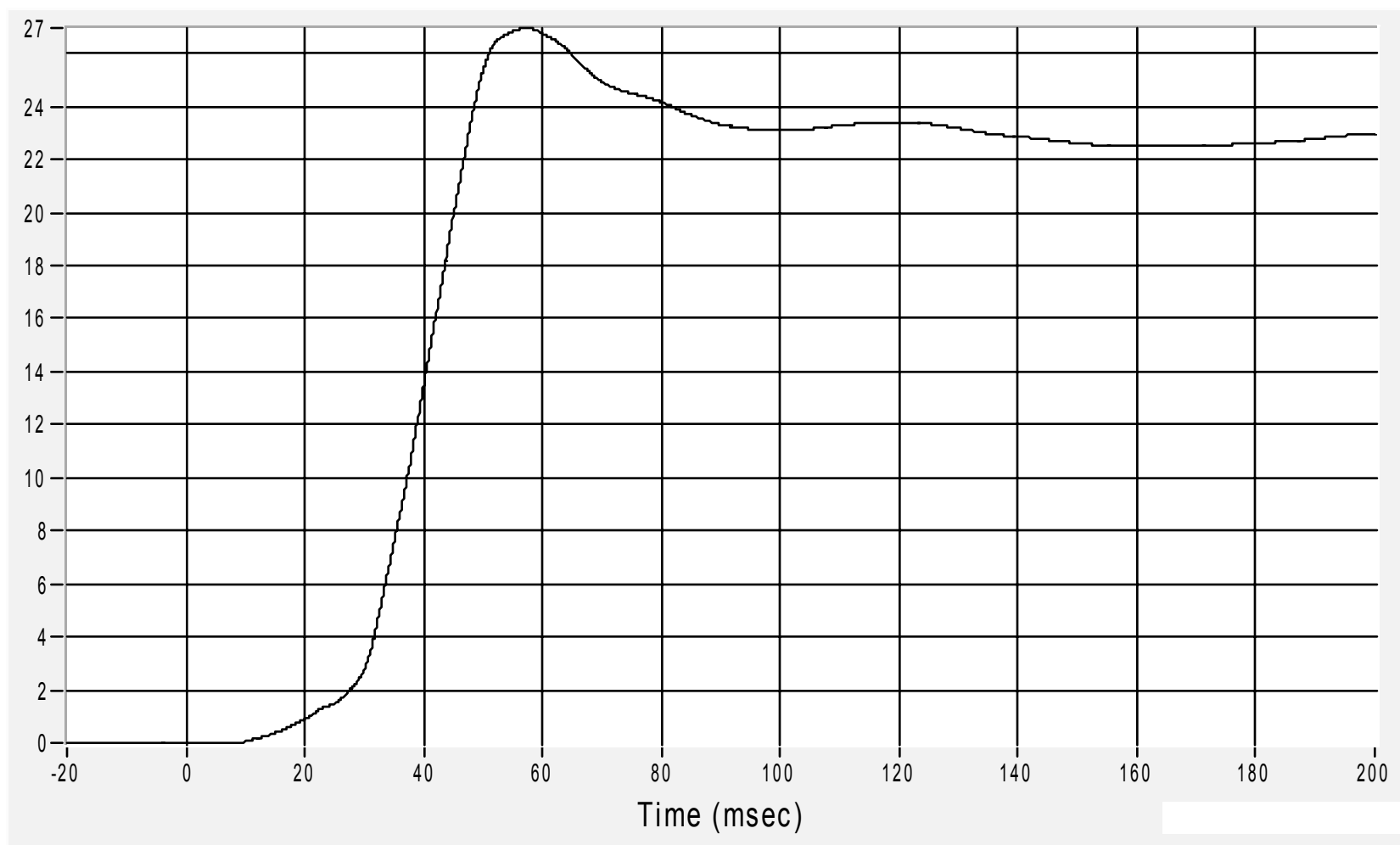
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Driver Pelvic (Y) Velocity

Velocity (km/h) CFC180

Max 27.0 km/h at 57.0 msec**Min 0.0 km/h at 0.0 msec**

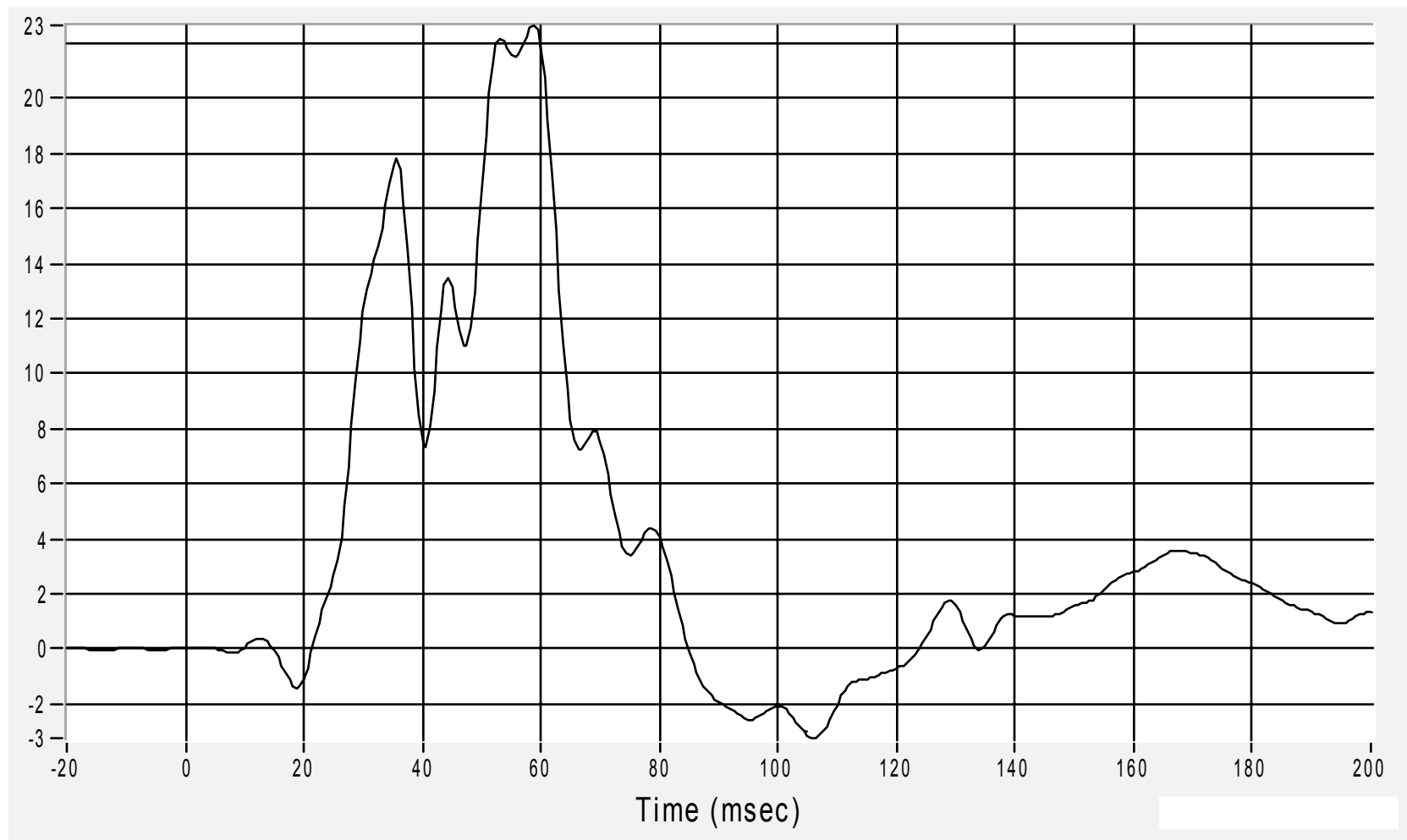
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Driver Upper Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 22.7 G at 58.8 msec**Min -3.2 G at 106.2 msec**

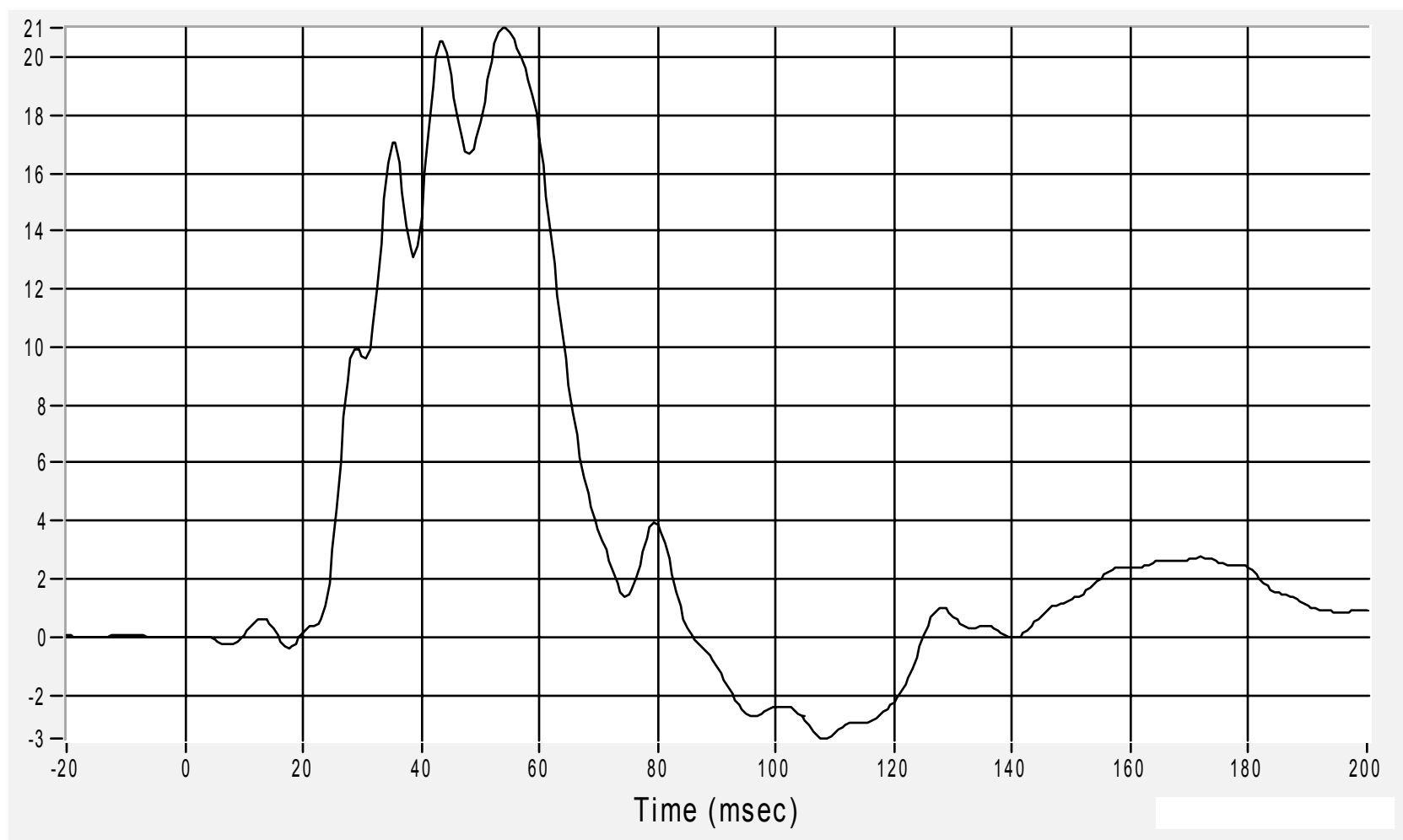
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Driver Lower Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 21.0 G at 53.8 msec**Min -3.5 G at 108.1 msec**

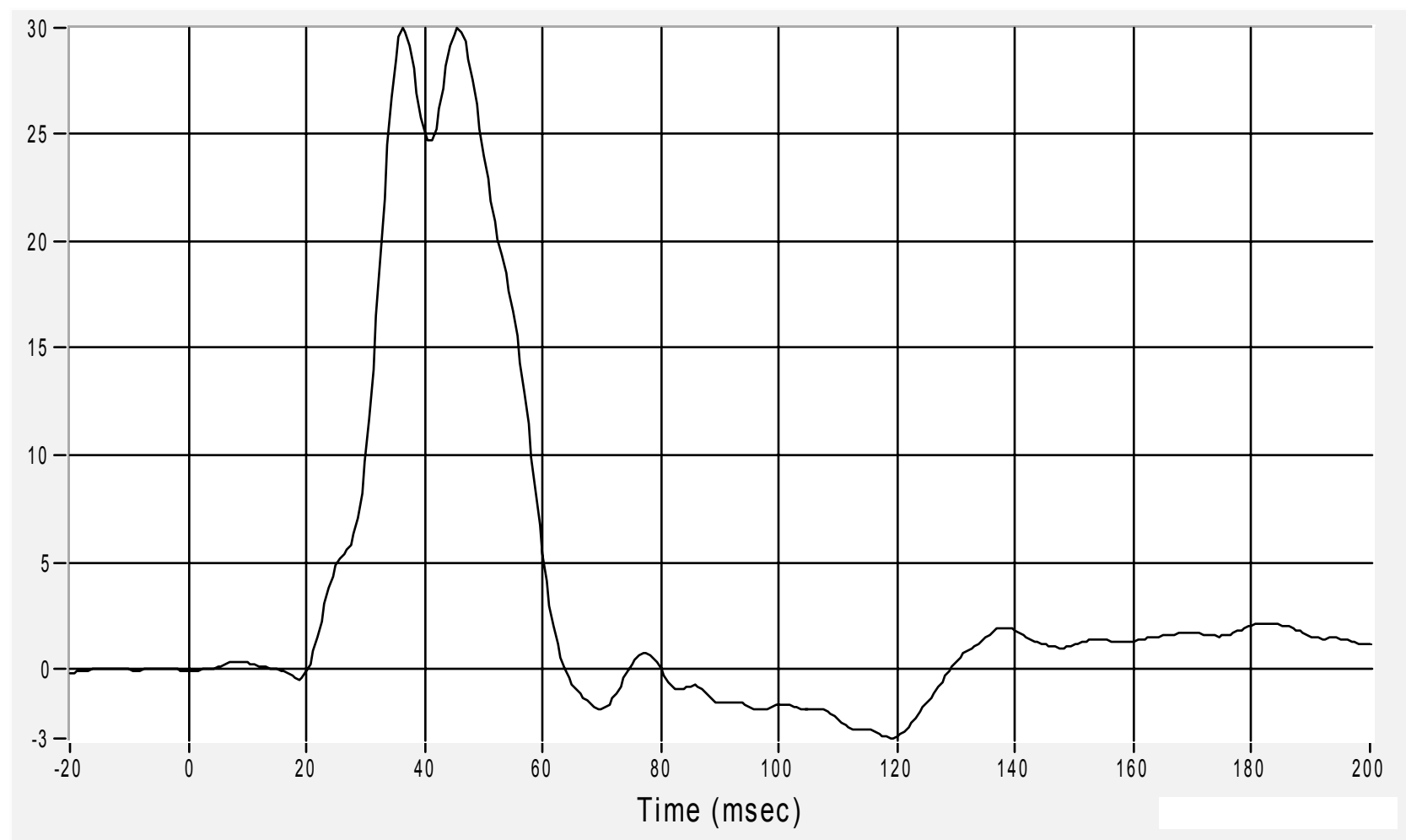
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Driver Lower Spine (Y) Acceleration

Acceleration (G's) FIR100

Max 29.9 G at 36.2 msec**Min -3.2 G at 119.4 msec**

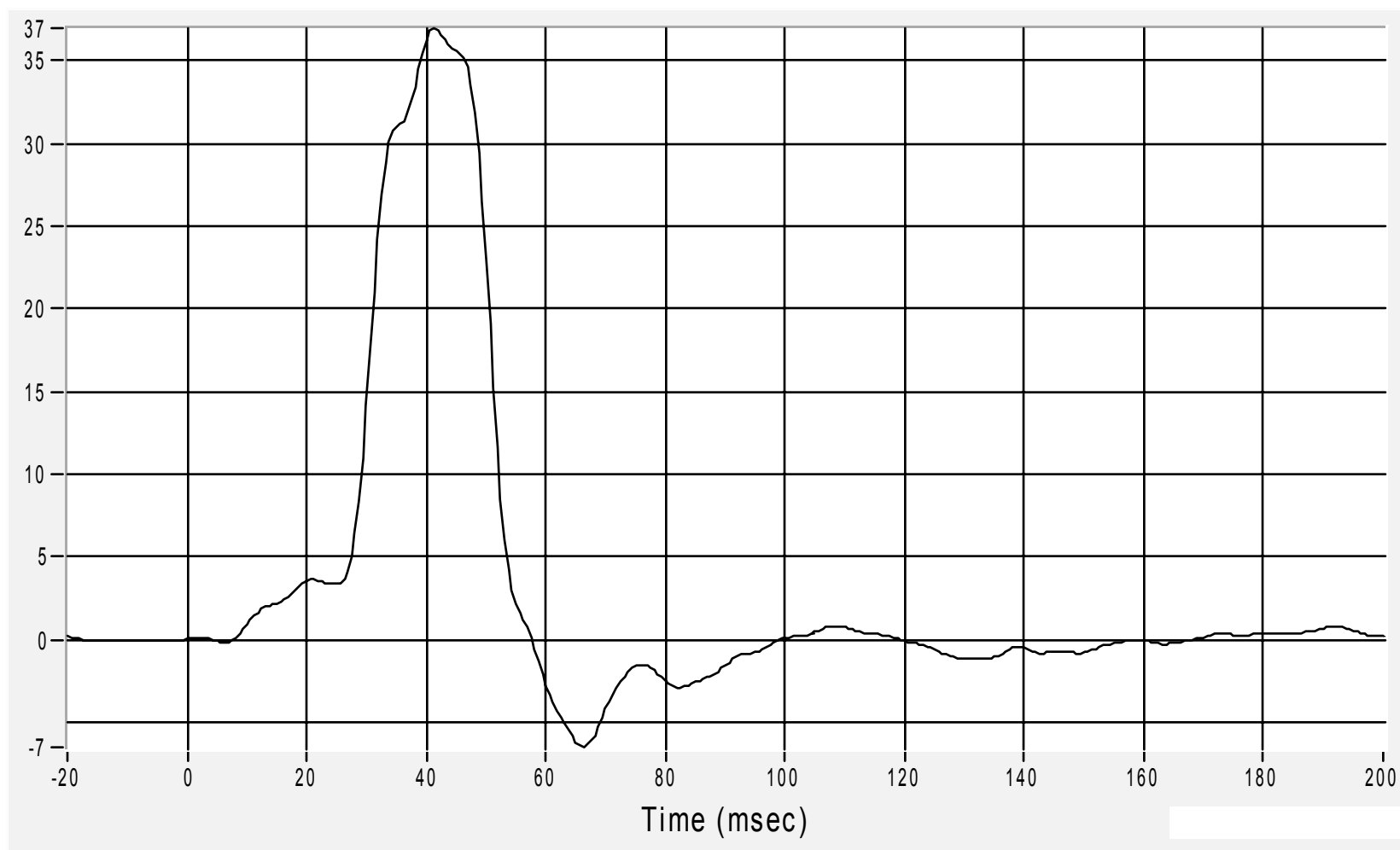
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Driver Pelvic (Y) Acceleration

Acceleration (G's) FIR100

Max 37.0 G at 41.2 msec**Min -6.5 G at 66.2 msec**

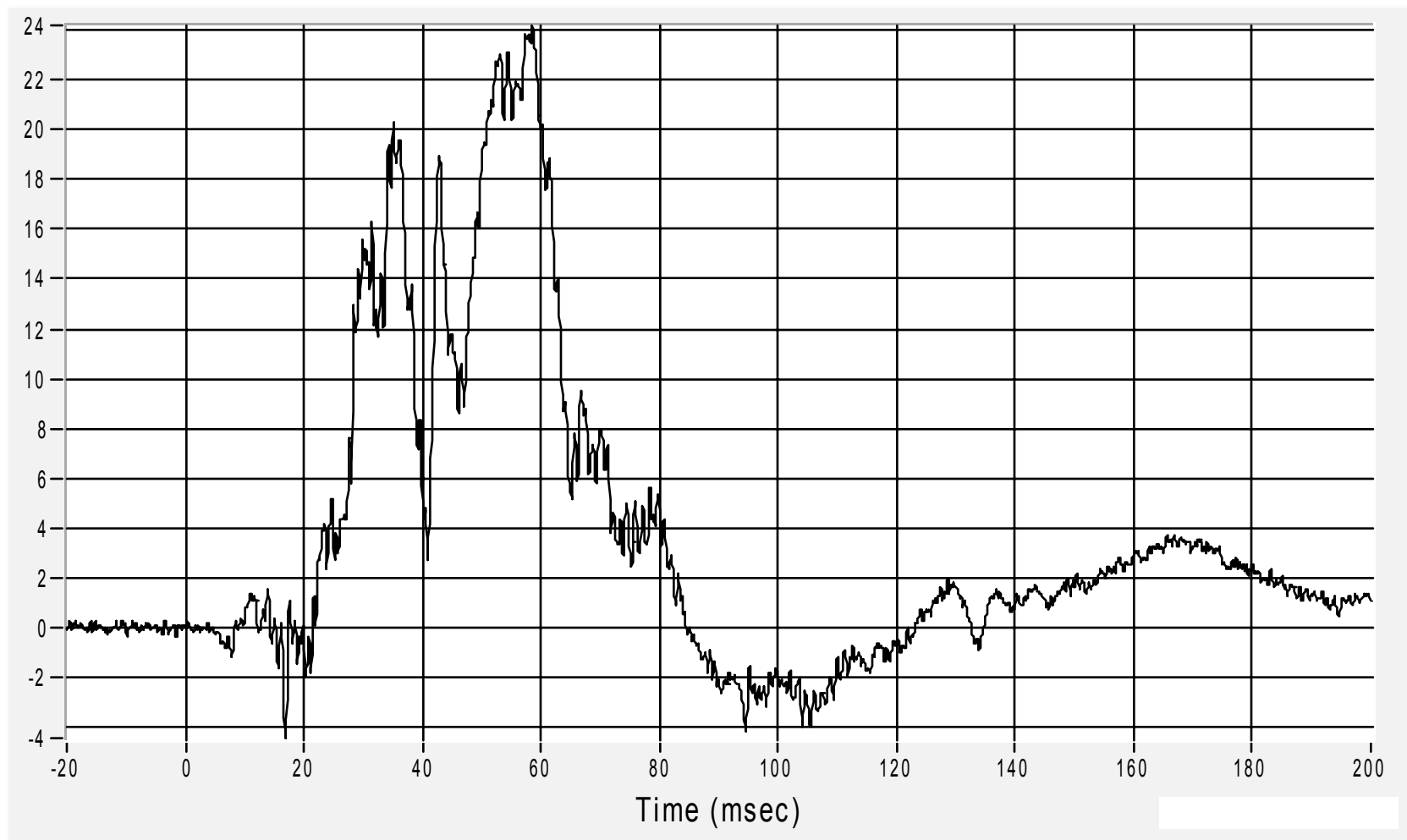
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Driver Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 24.2 G at 58.6 msec**Min -4.4 G at 16.9 msec**

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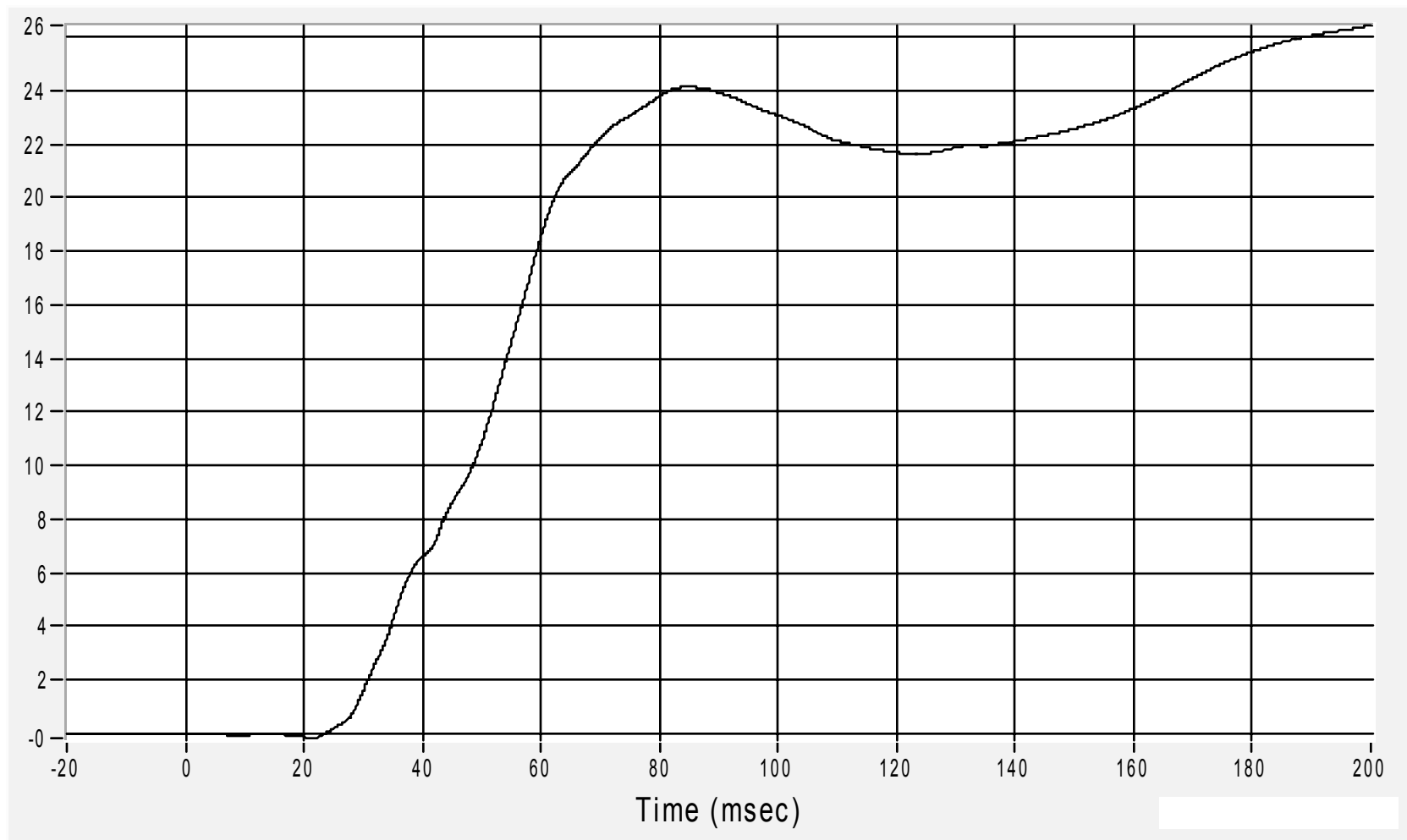
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Driver Upper Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 26.4 km/h at 199.9 msec

Min -0.2 km/h at 21.4 msec



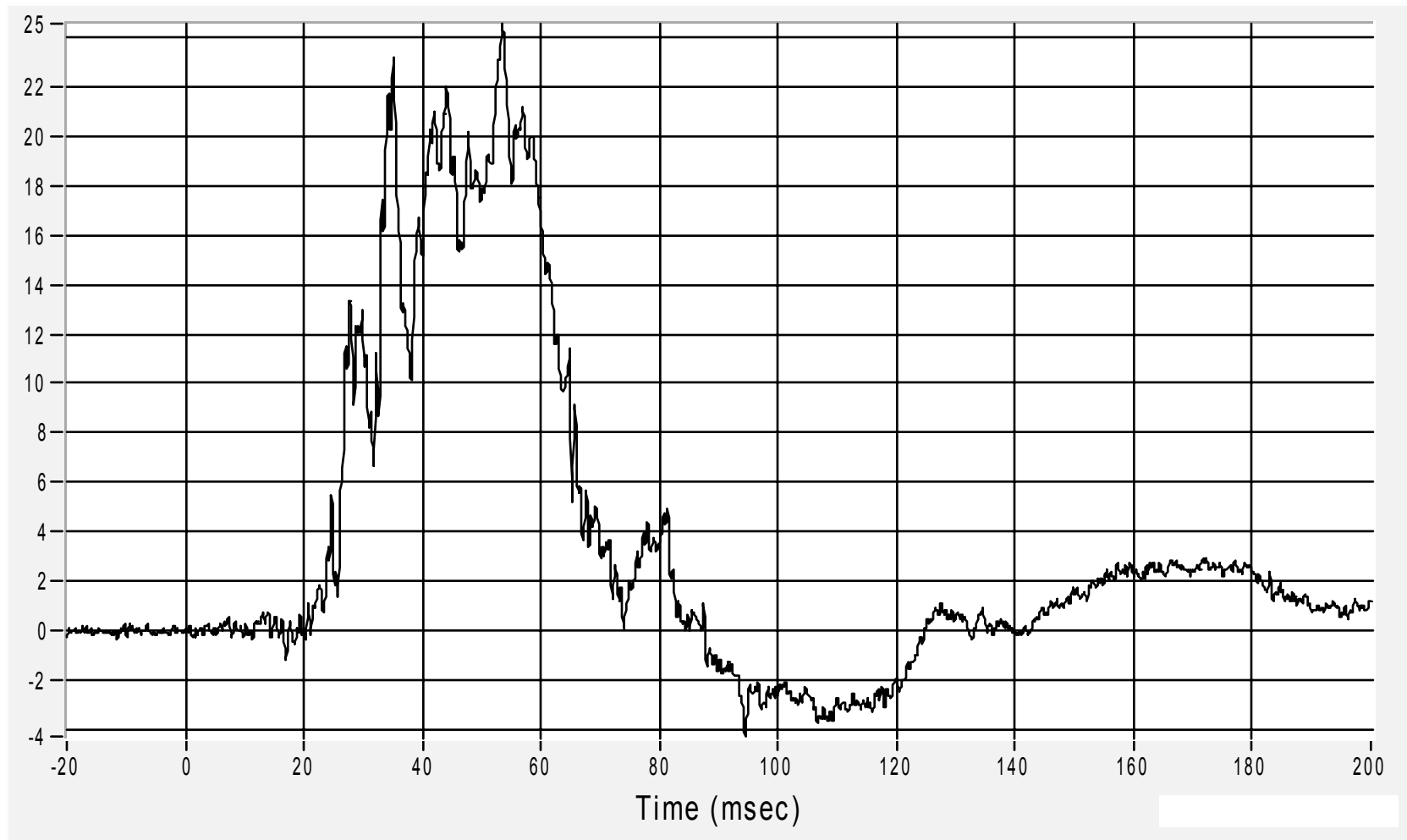
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Driver Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 24.6 G at 53.4 msec**Min -4.3 G at 94.4 msec**

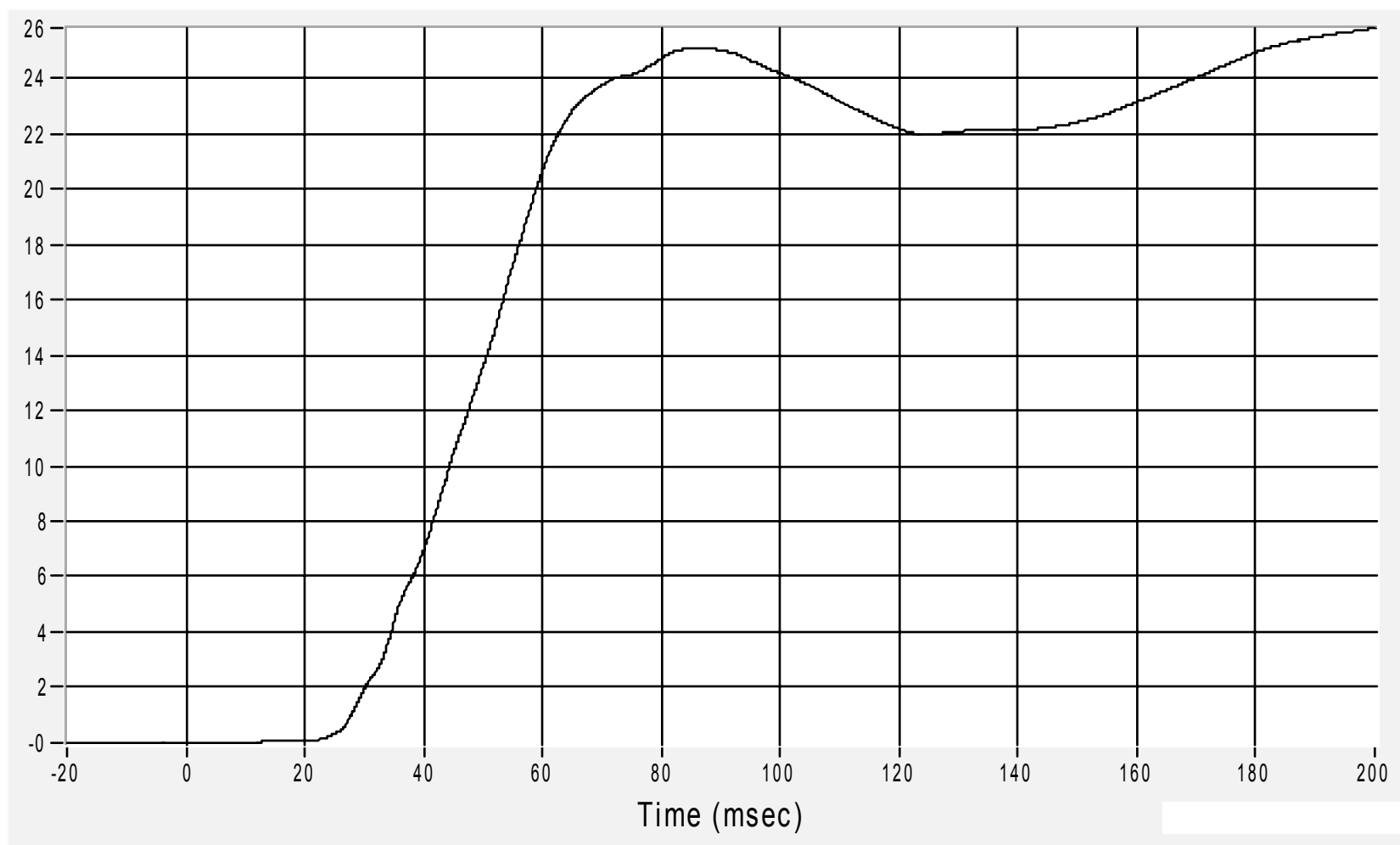
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Driver Lower Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 25.8 km/h at 199.9 msec**Min 0.0 km/h at 2.4 msec**

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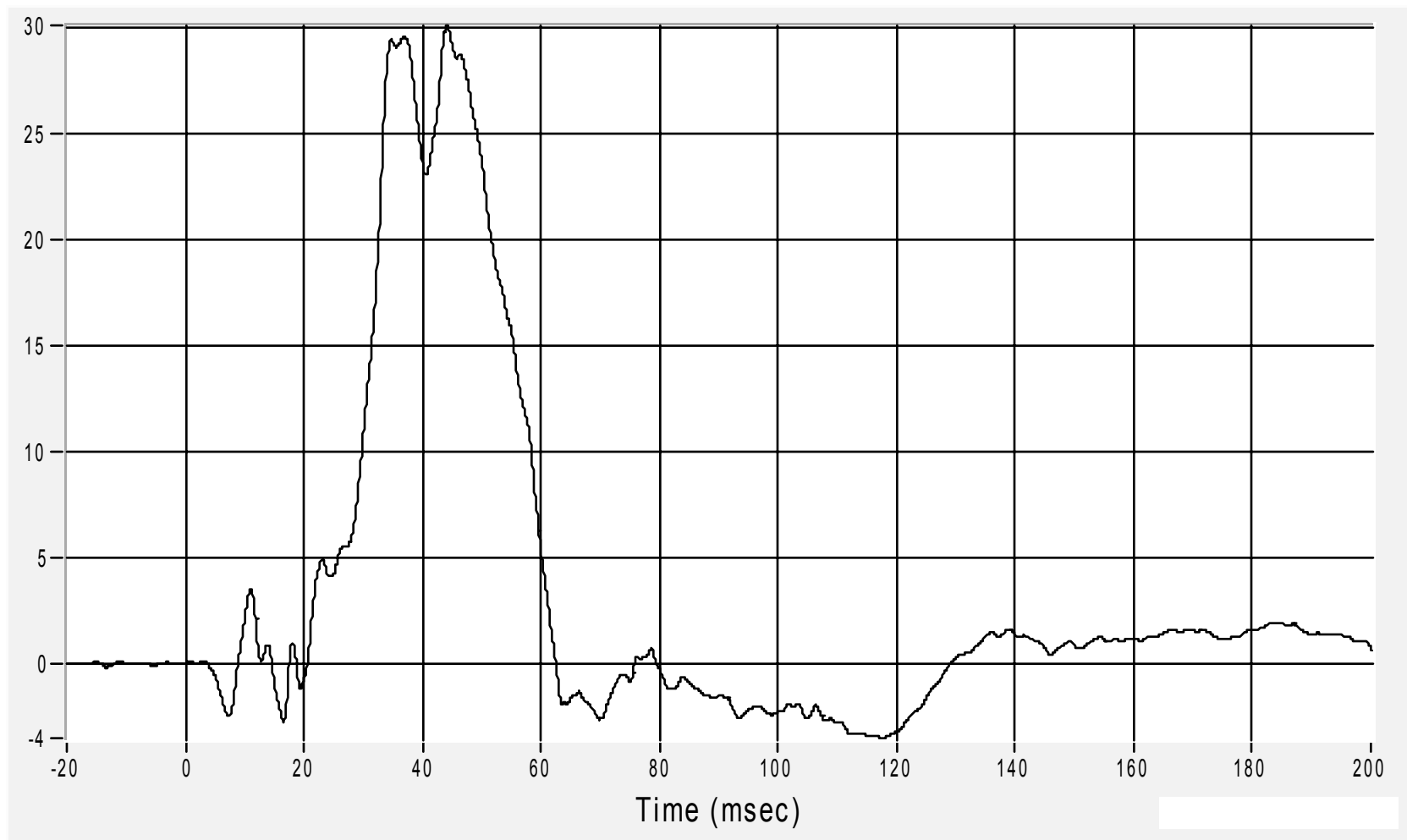
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Driver Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) CFC180

Max 30.1 G at 44.1 msec

Min -3.5 G at 117.7 msec



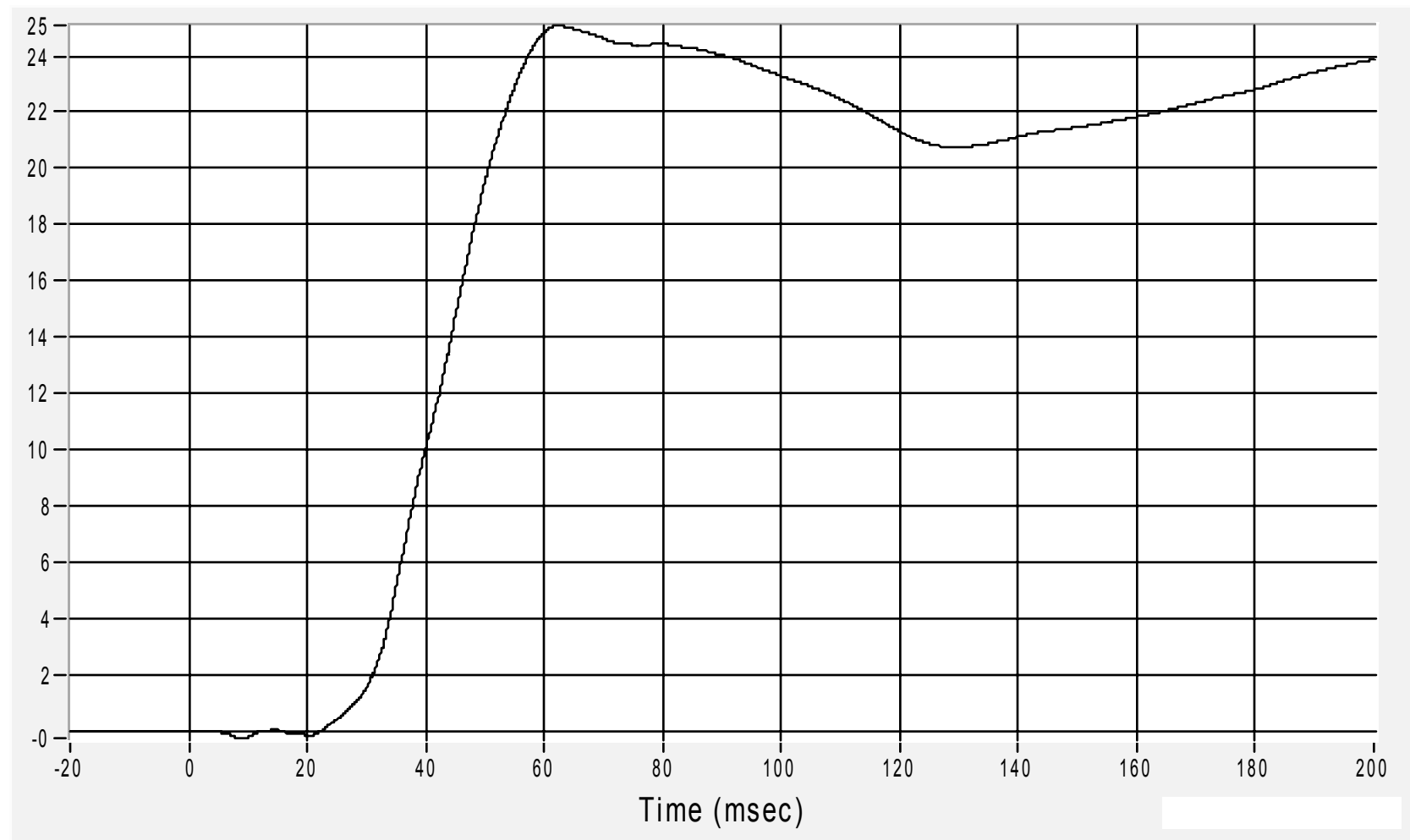
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Driver Lower Spine (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 25.1 km/h at 62.6 msec**Min -0.2 km/h at 8.9 msec**

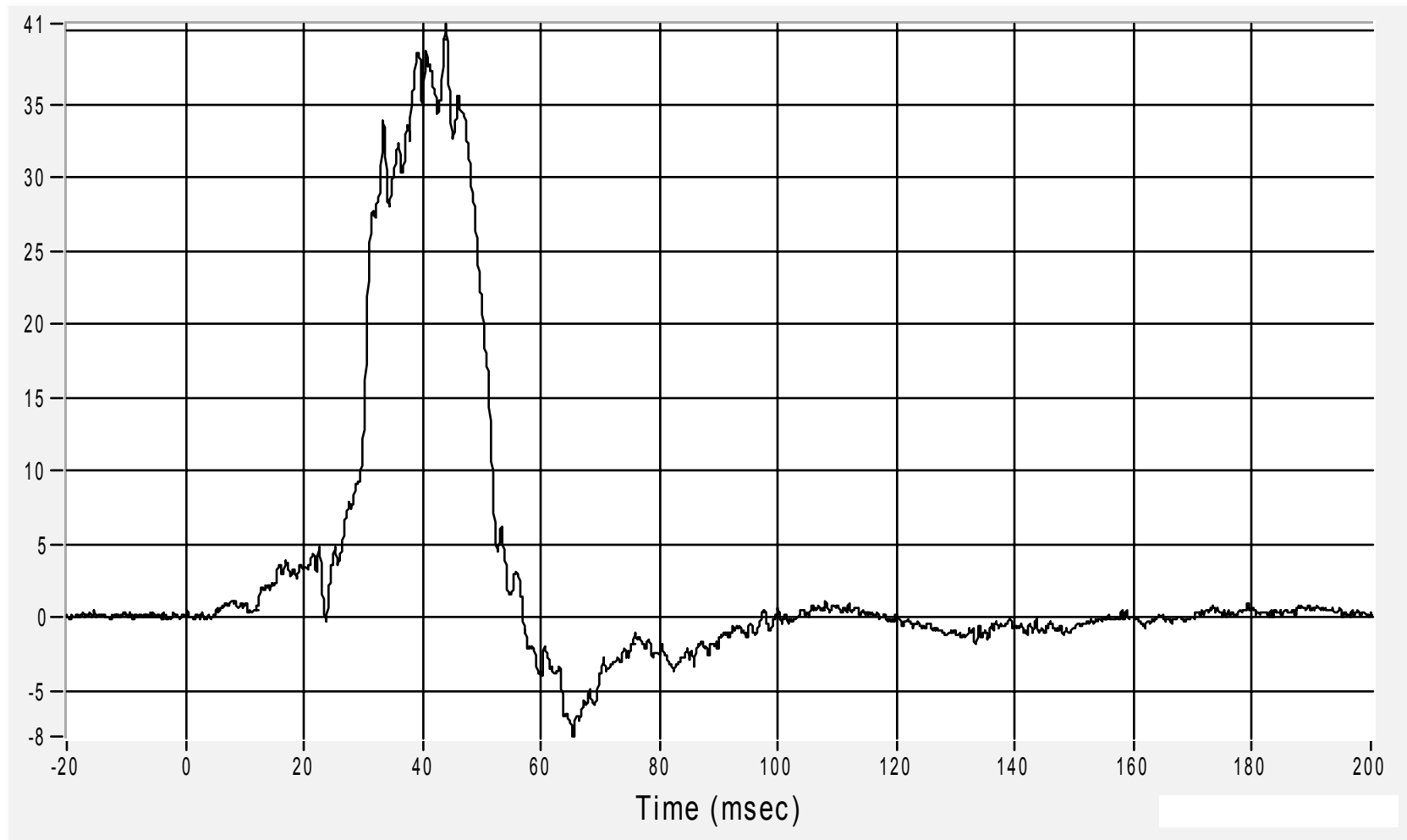
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Driver Pelvic (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 40.5 G at 43.9 msec**Min -8.2 G at 65.4 msec**

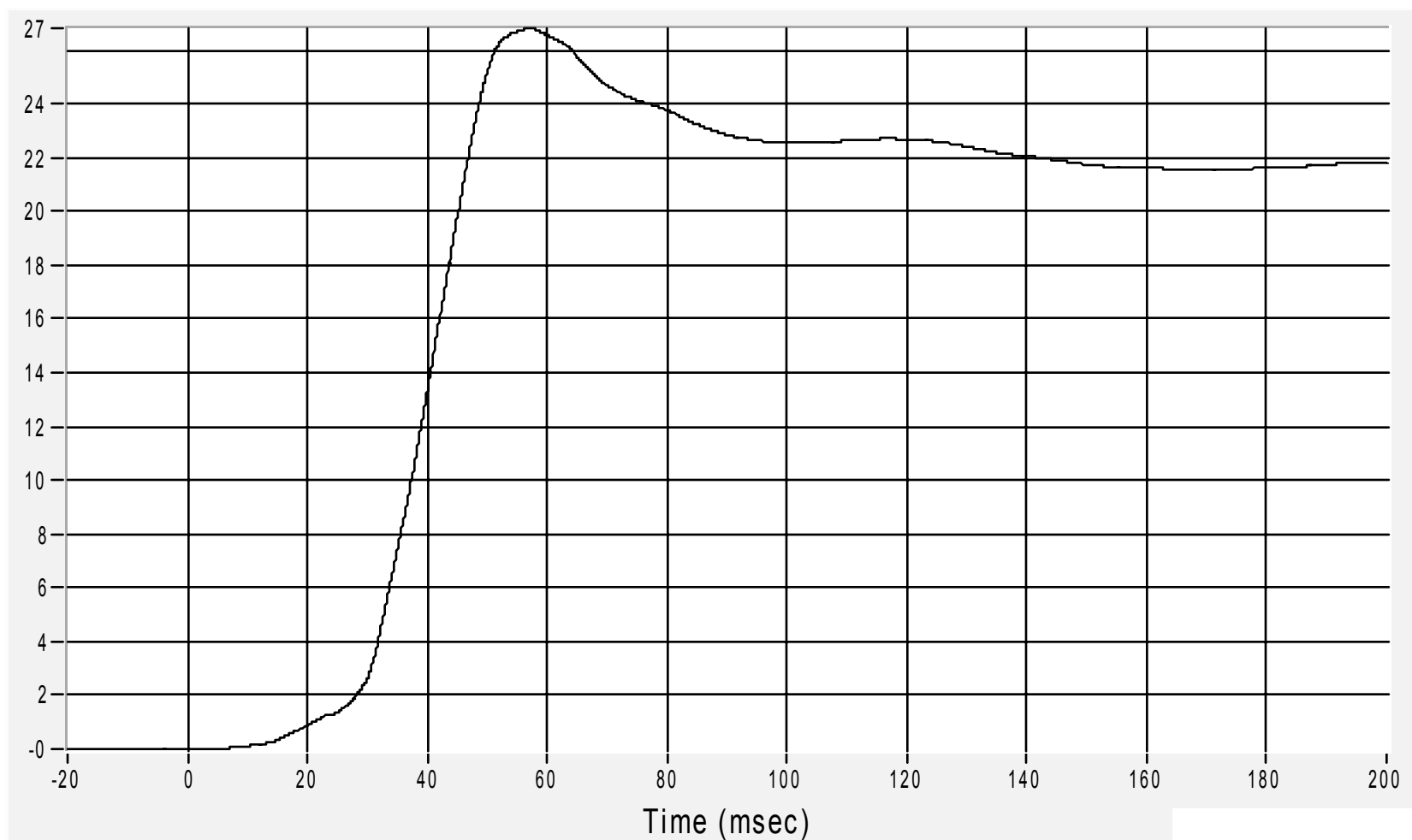
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Driver Pelvic (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 26.8 km/h at 57.0 msec**Min 0.0 km/h at 4.6 msec**

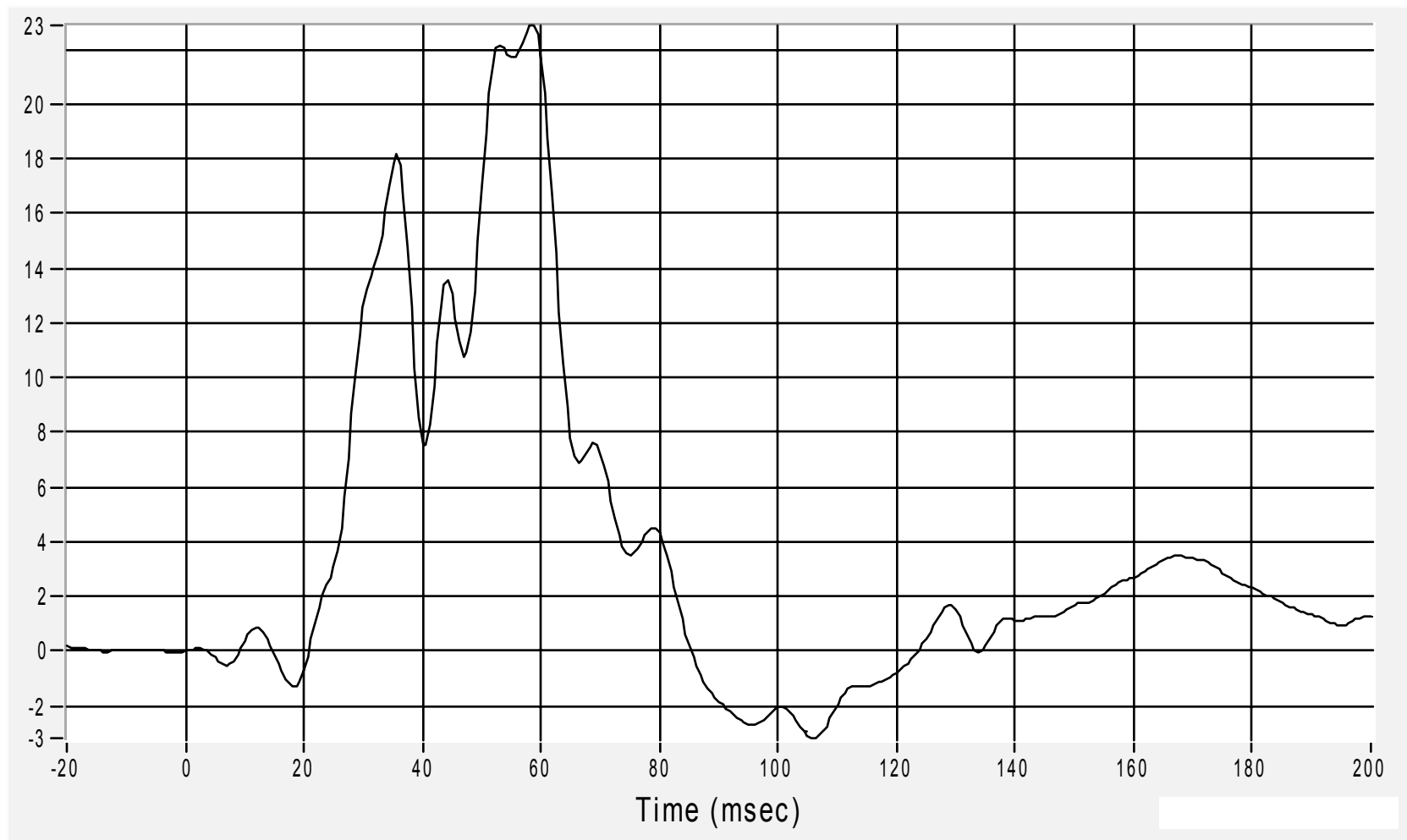
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Driver Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 22.9 G at 58.8 msec**Min -3.2 G at 106.2 msec**

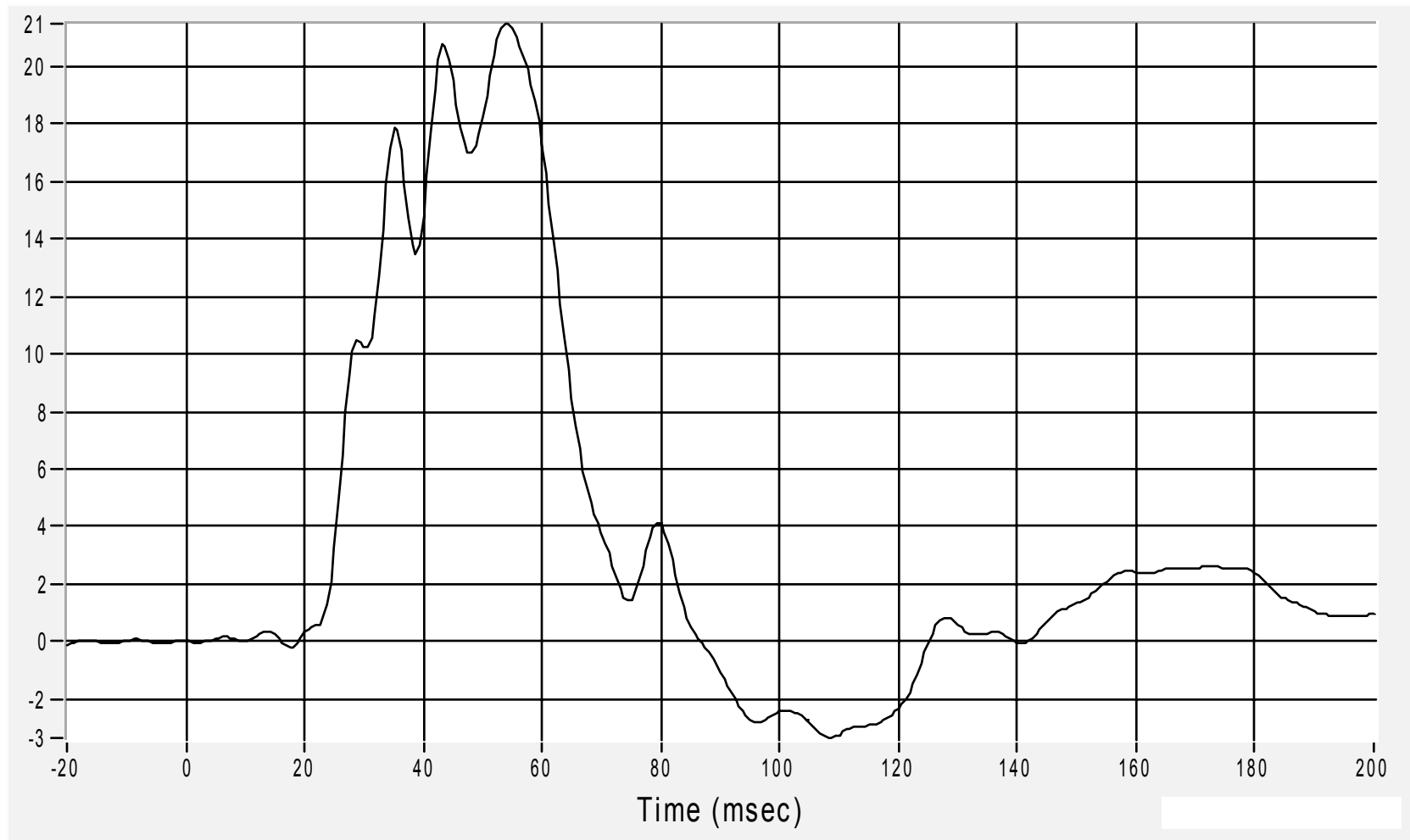
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Driver Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 21.5 G at 53.8 msec**Min -3.4 G at 108.8 msec**

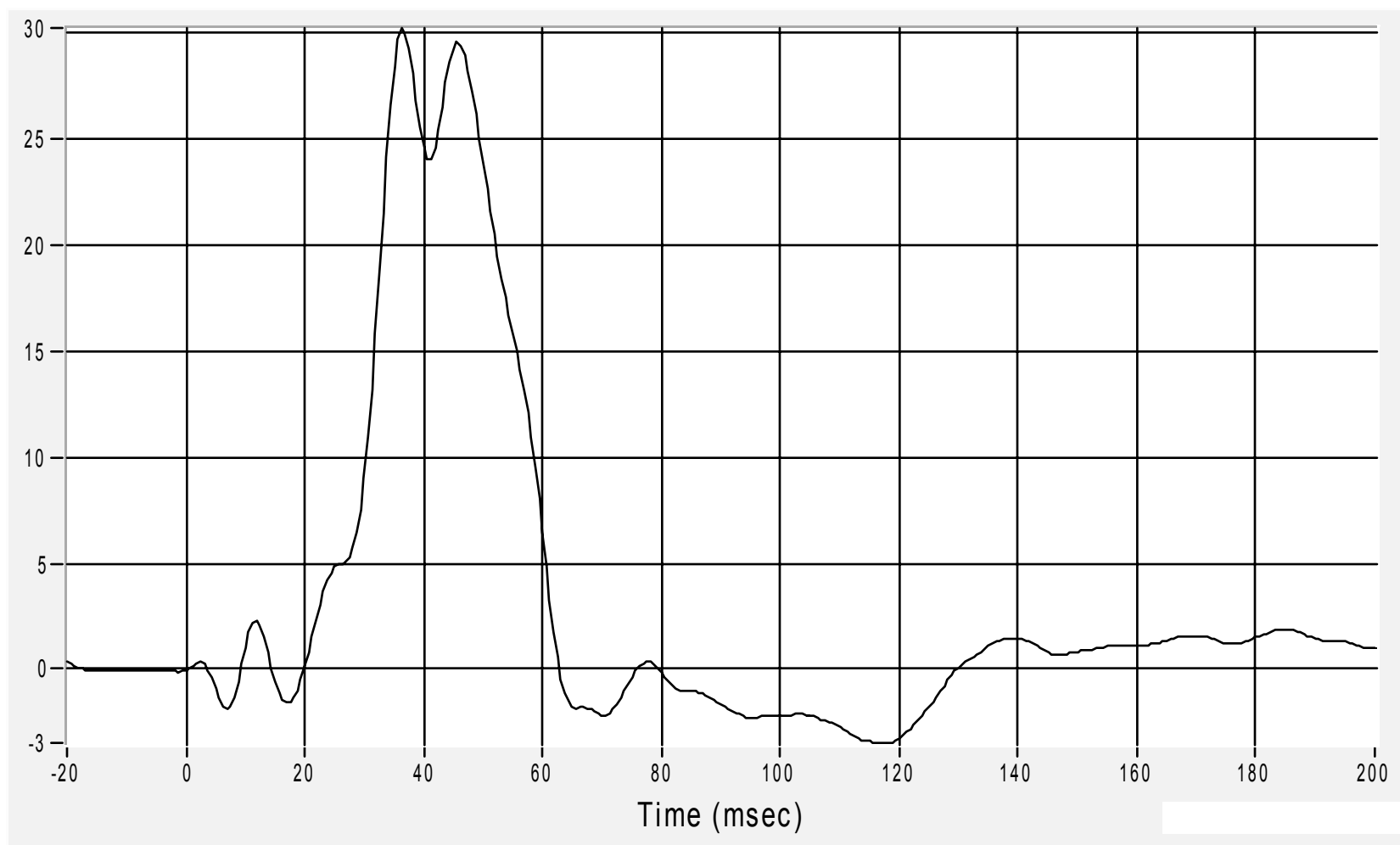
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Driver Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 30.2 G at 36.2 msec**Min -3.5 G at 117.5 msec**

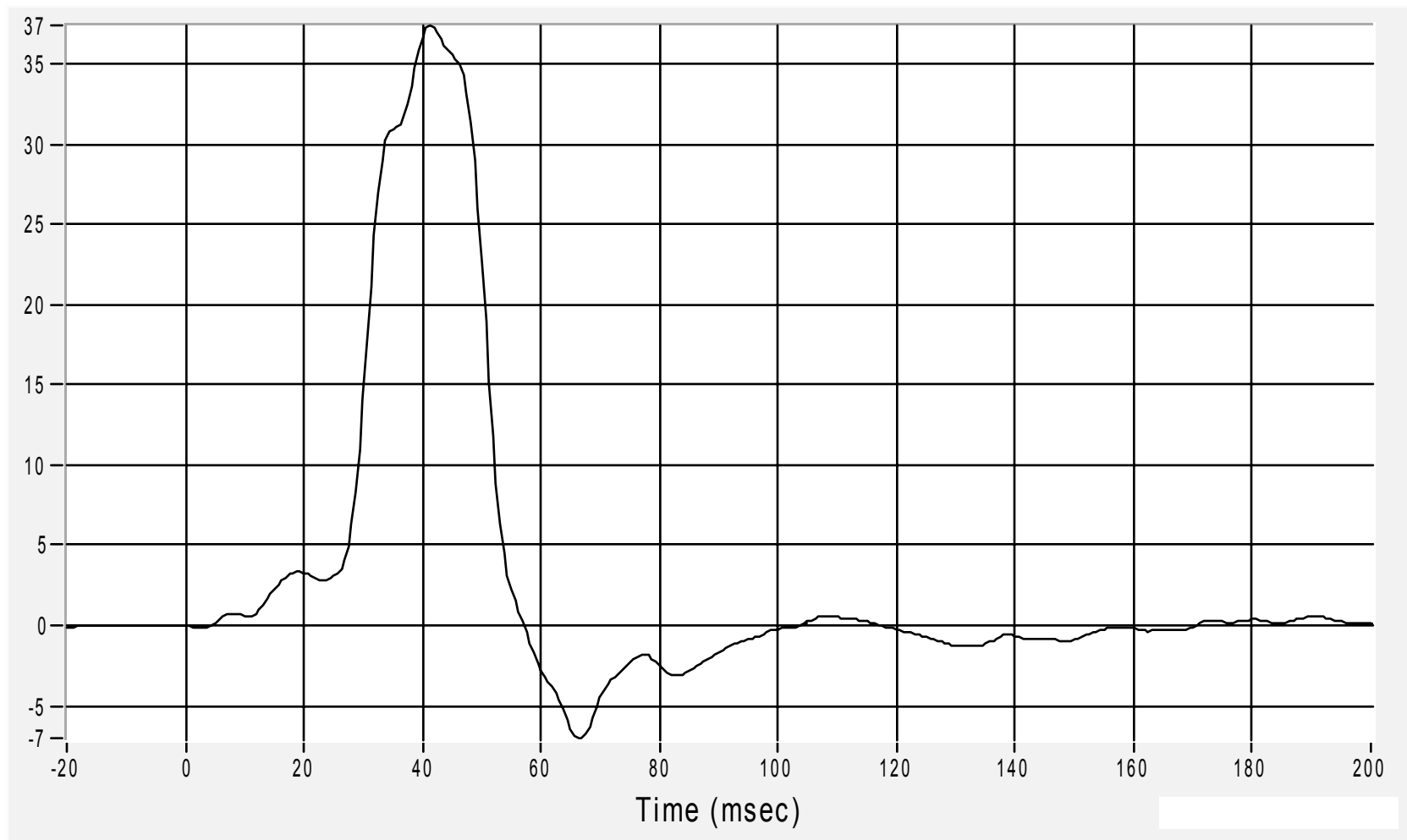
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Driver Pelvic (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 37.4 G at 41.2 msec**Min -7.0 G at 66.2 msec**

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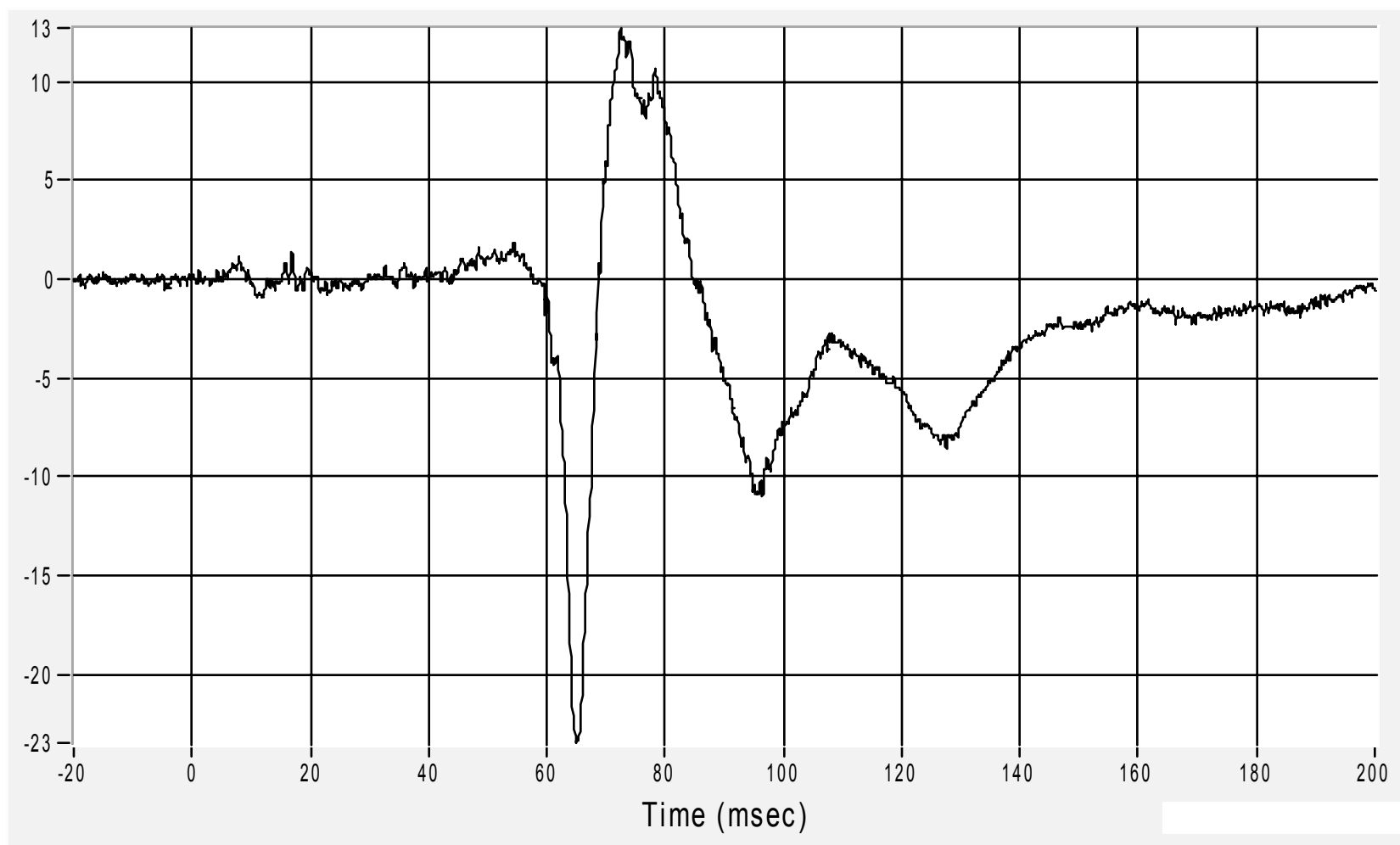
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Passenger Head CG (X) Acceleration

Acceleration (G's) CFC1000

Max 12.7 G at 72.5 msec

Min -23.5 G at 65.0 msec



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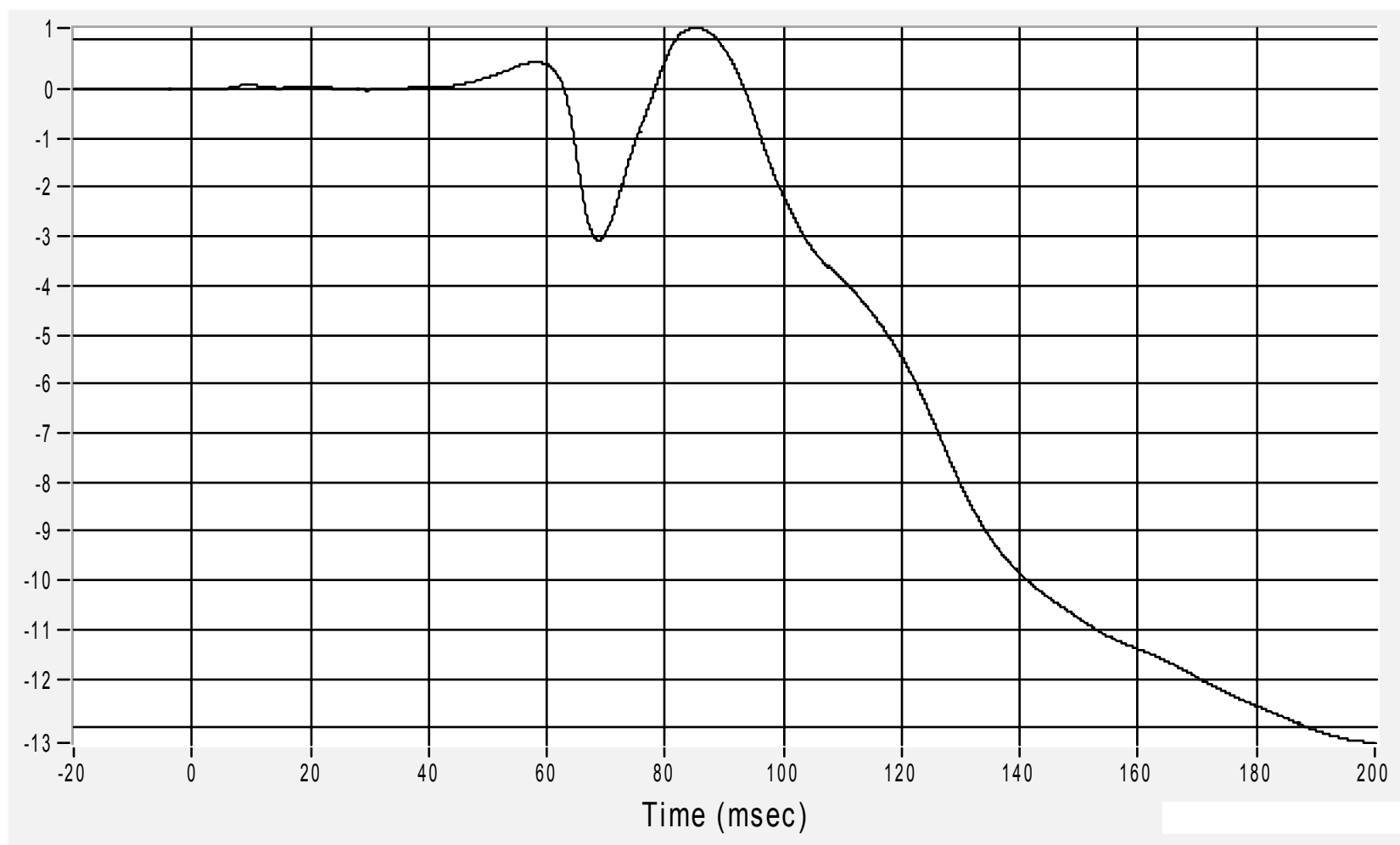
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Passenger Head CG (X) Velocity

Velocity (km/h) CFC180

Max 1.2 km/h at 85.0 msec

Min -13.3 km/h at 199.9 msec



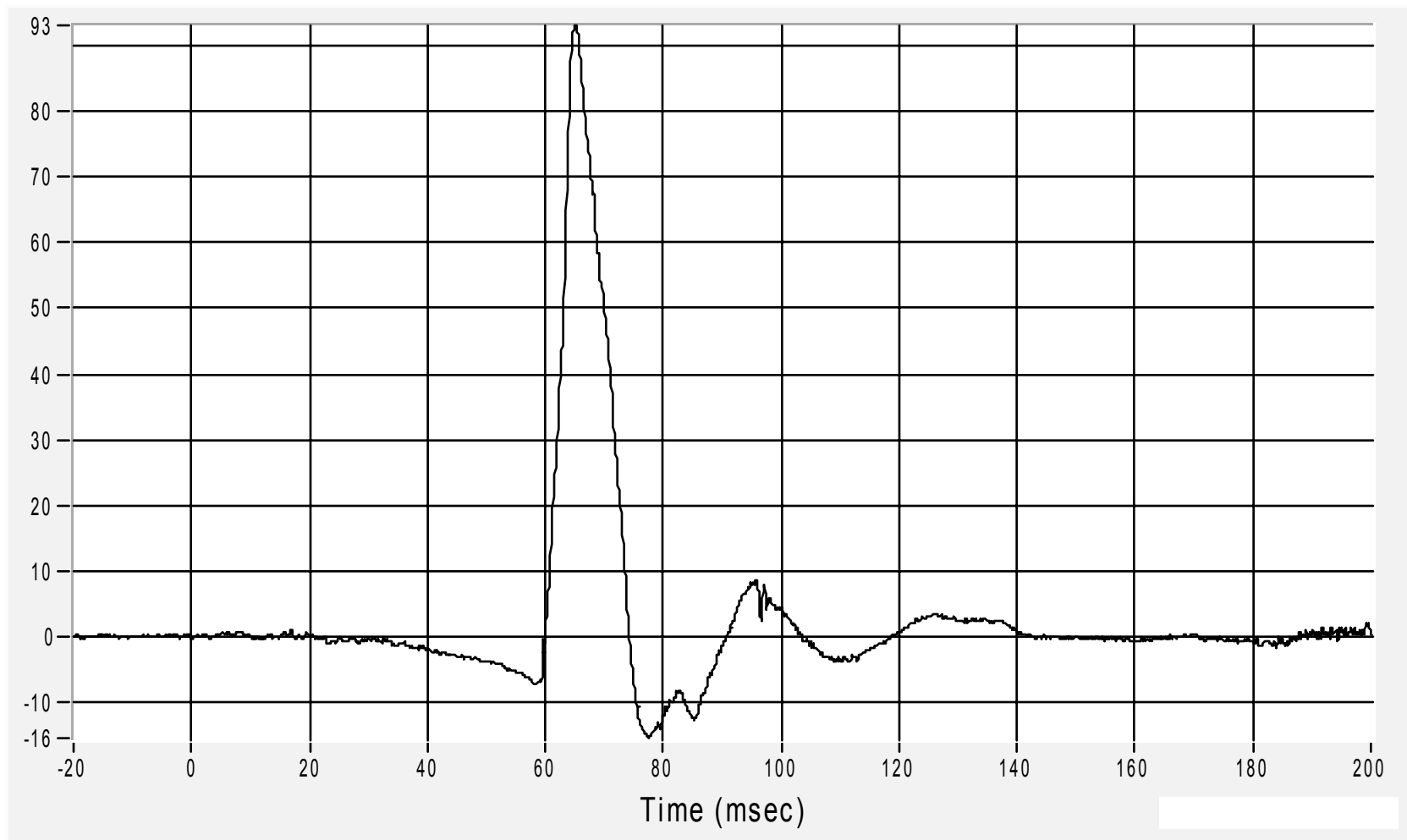
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Passenger Head CG (Y) Acceleration

Acceleration (G's) CFC1000

Max 93.2 G at 65.1 msec**Min -15.5 G at 77.5 msec**

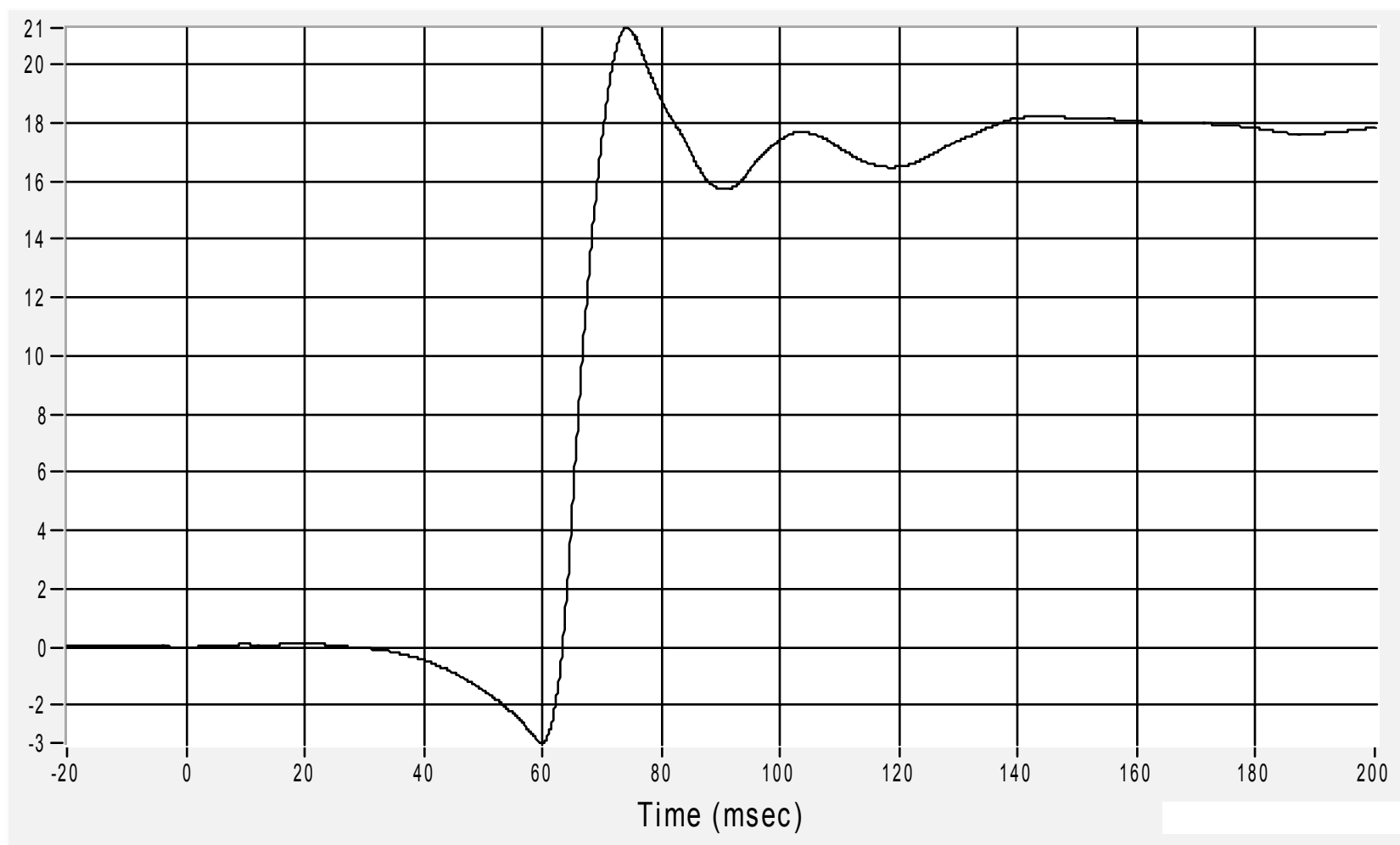
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Passenger Head CG (Y) Velocity

Velocity (km/h) CFC180

Max 21.3 km/h at 74.2 msec**Min -3.3 km/h at 59.8 msec**

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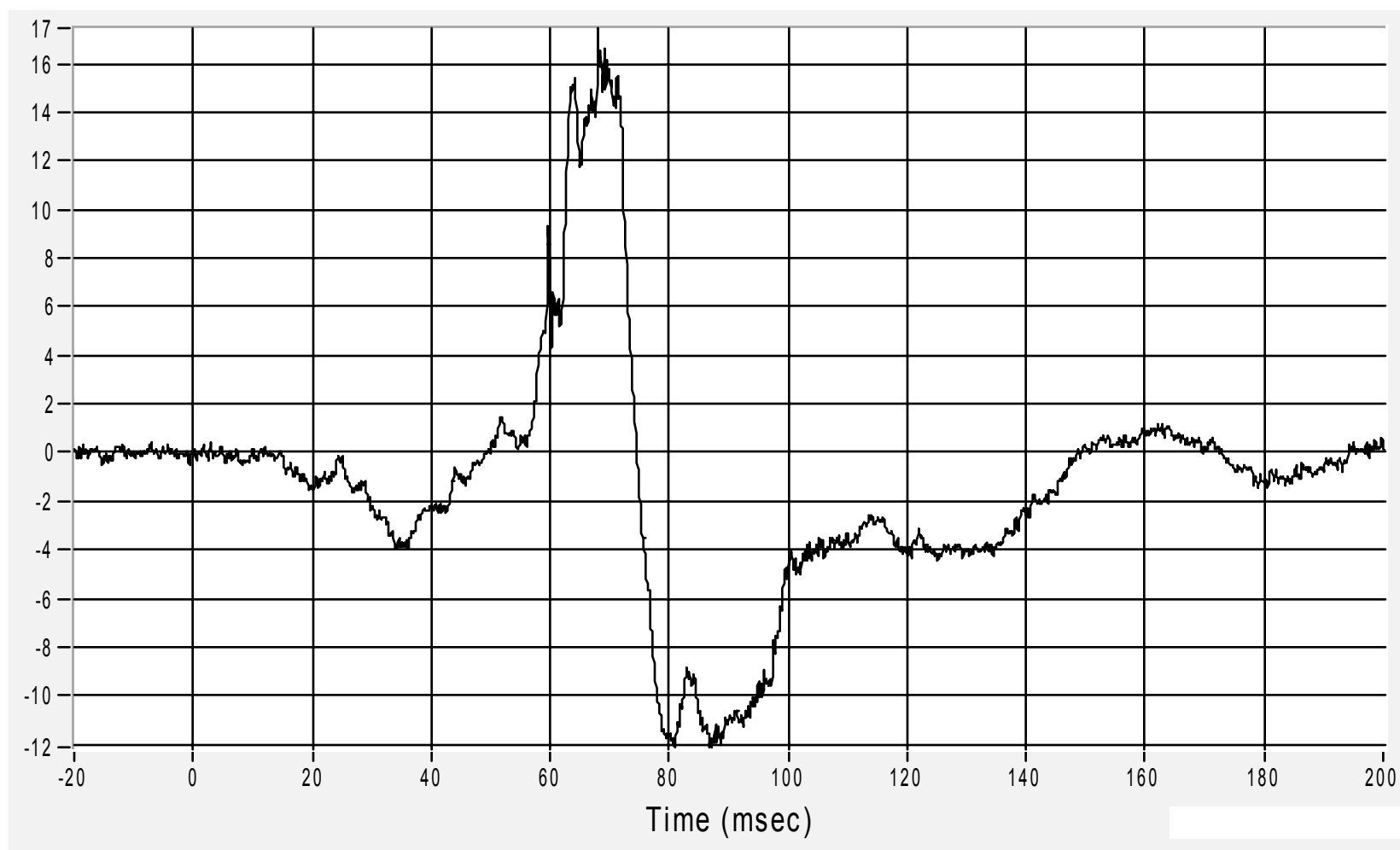
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Passenger Head CG (Z) Acceleration

Acceleration (G's) CFC1000

Max 17.5 G at 68.0 msec

Min -12.1 G at 86.8 msec



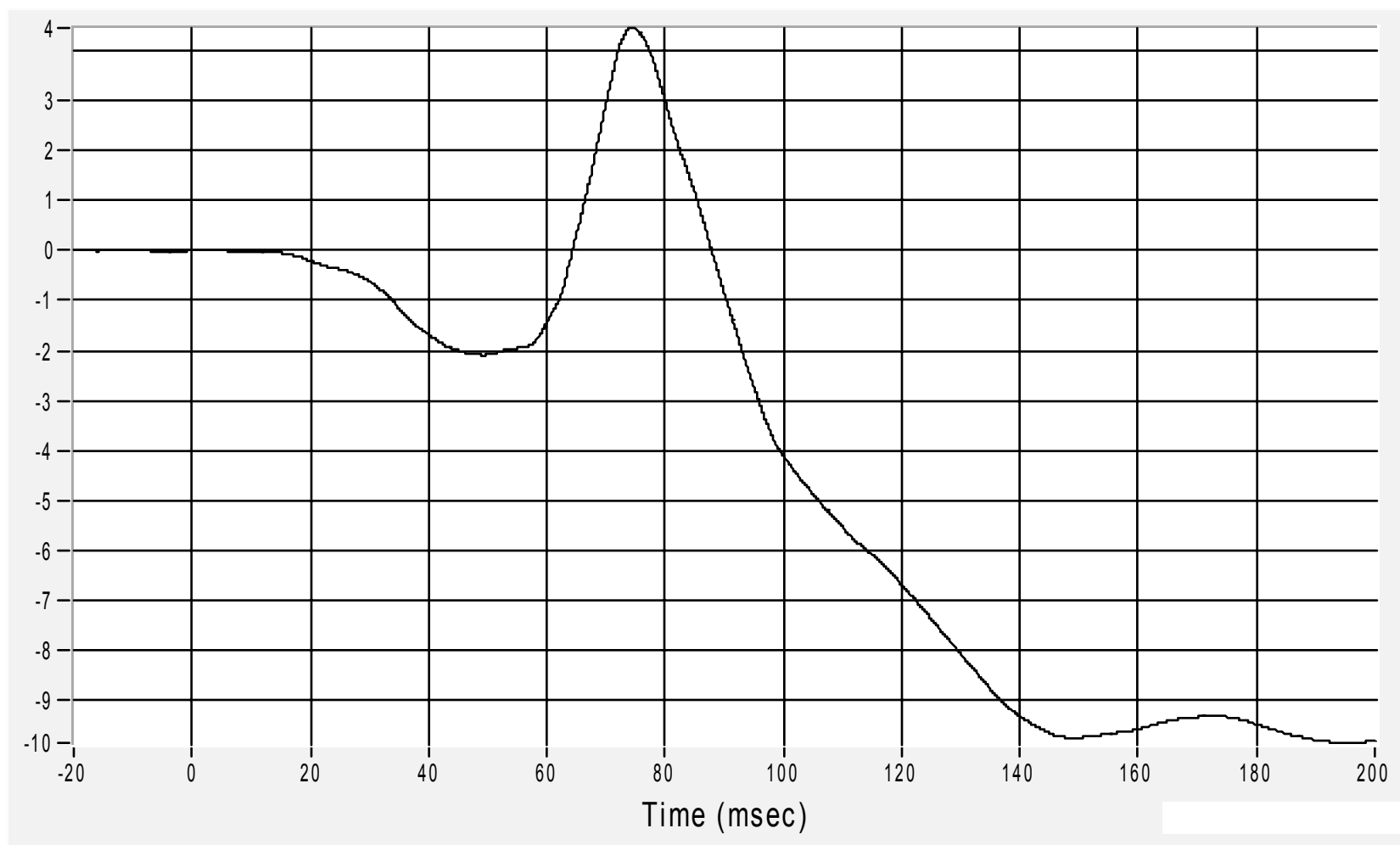
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Passenger Head CG (Z) Velocity

Velocity (km/h) CFC180

Max 4.5 km/h at 74.5 msec**Min -9.9 km/h at 194.2 msec**

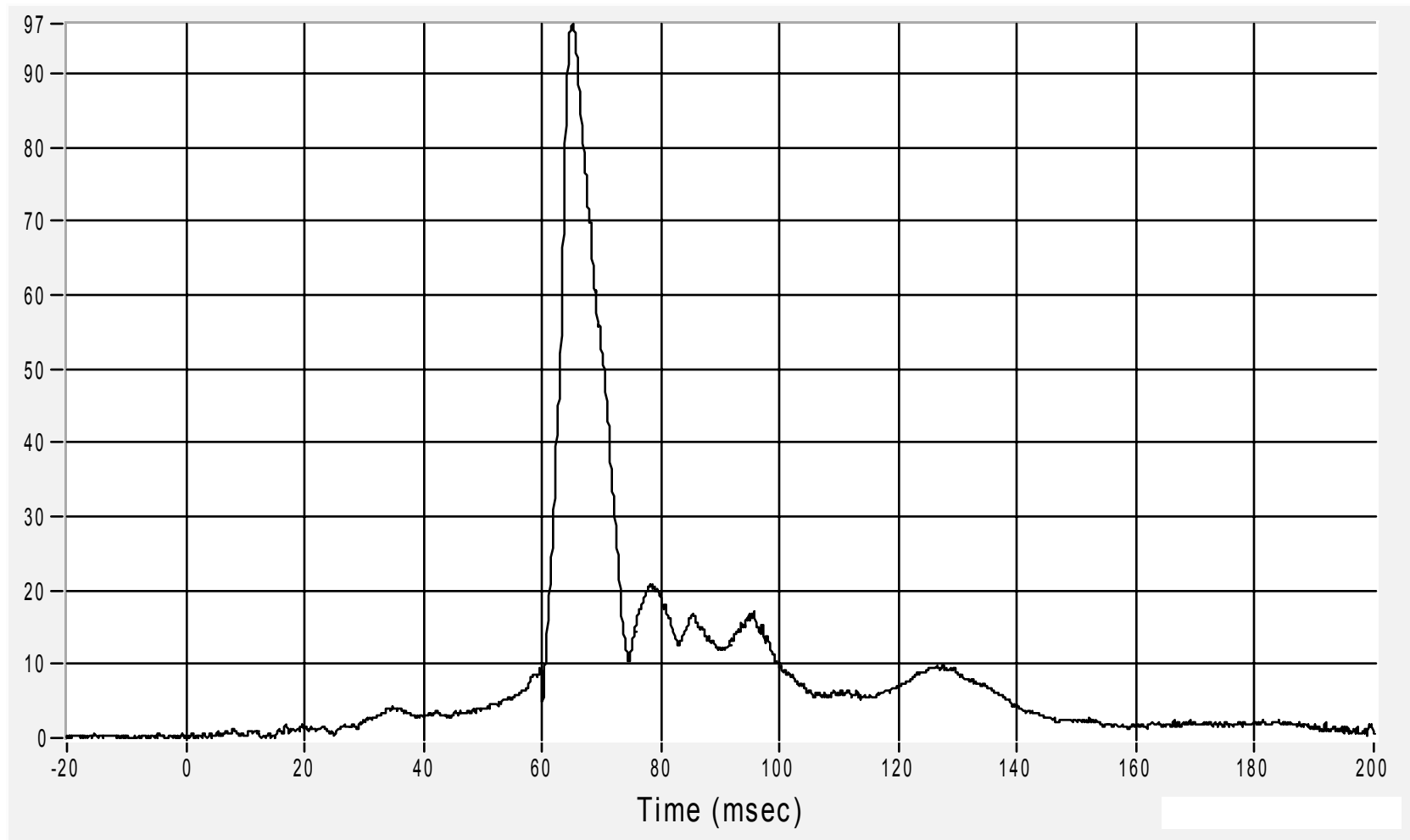
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Passenger Head Resultant Acceleration

Acceleration (G's) CFC1000

Max 96.8 G's at 65.1 msec**Min 0.0 G's at 3.5 msec**

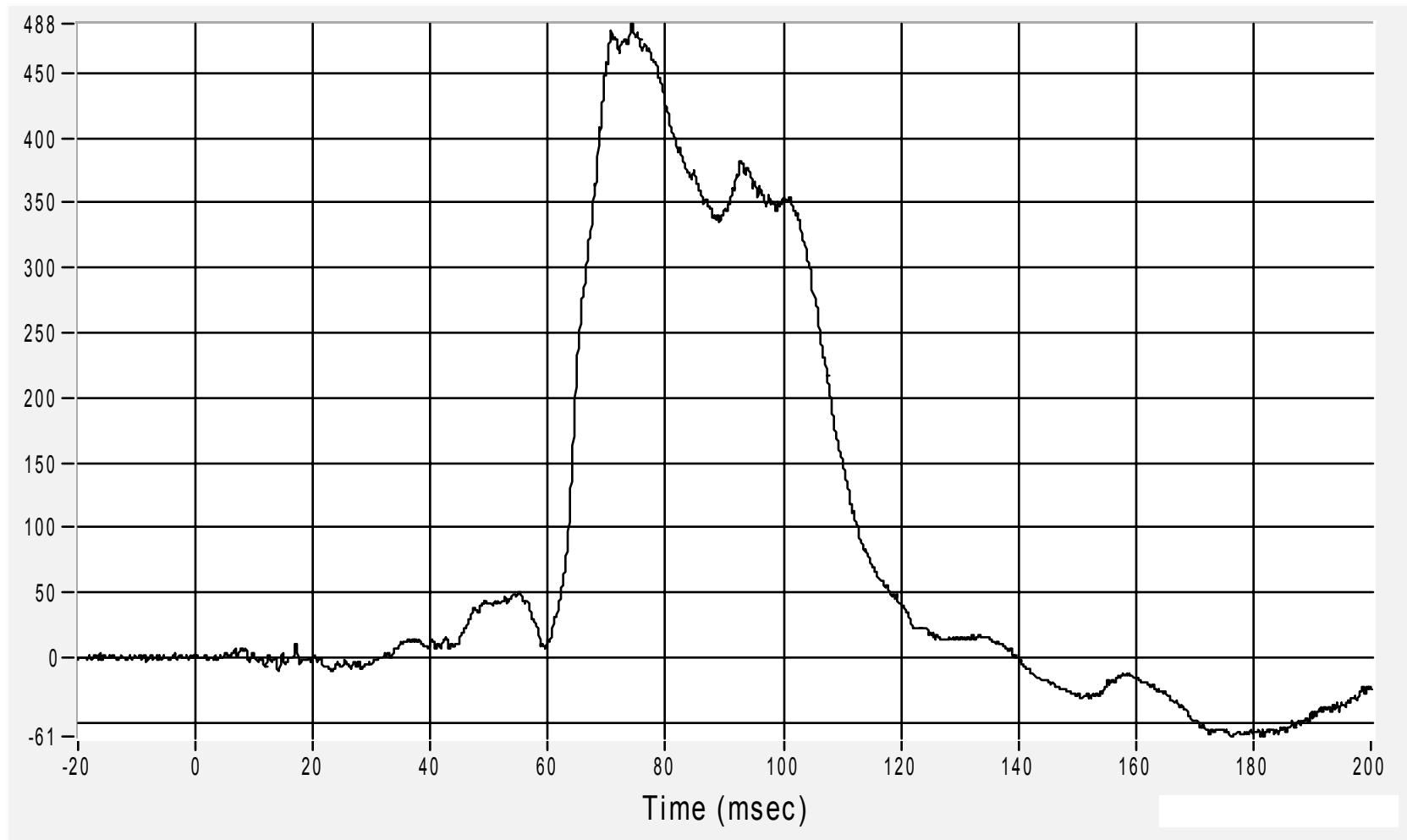
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Passenger Upper Neck (X) Force

Force (N) CFC1000

Max 487.8 N at 74.3 msec**Min -60.8 N at 176.2 msec**

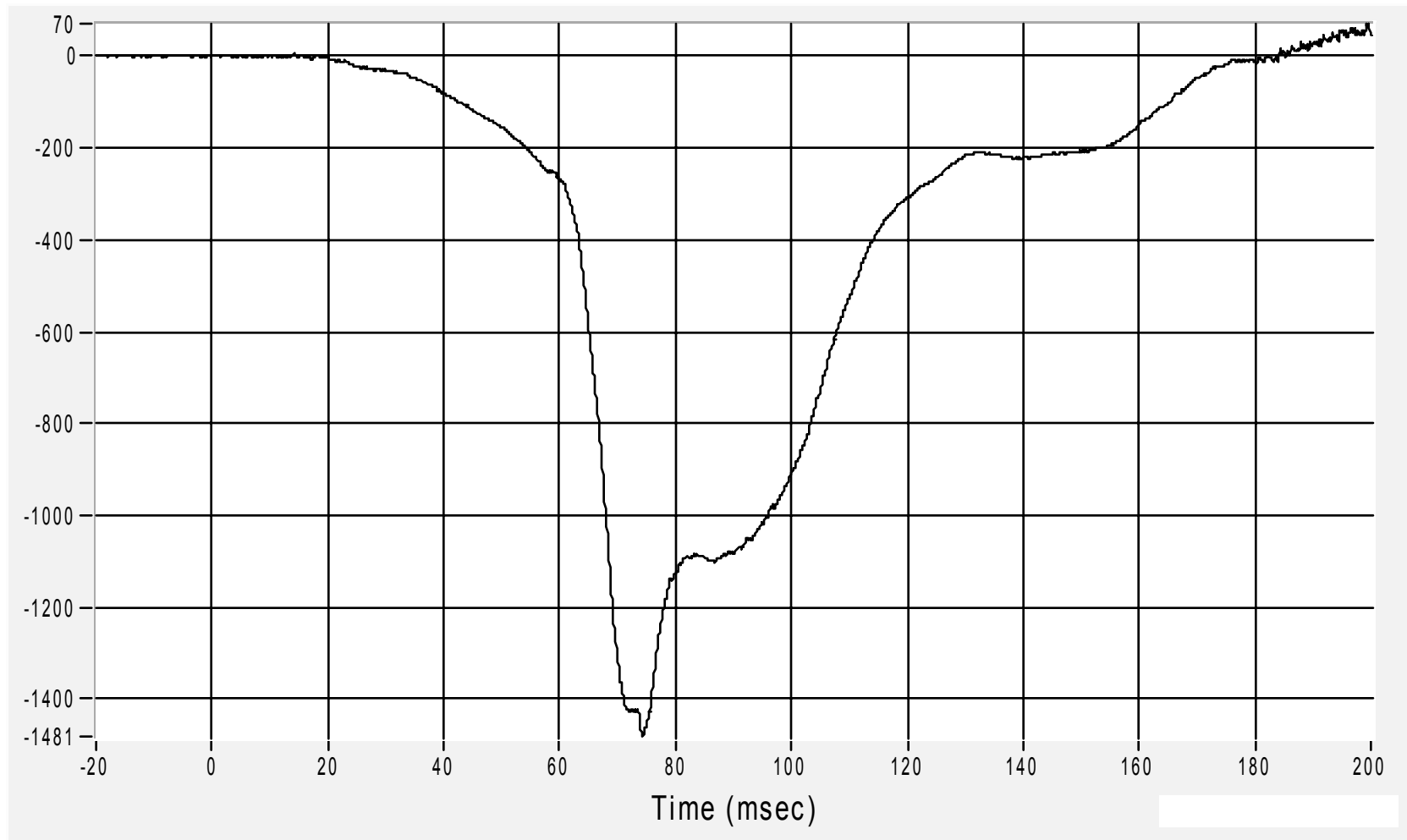
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Passenger Upper Neck (Y) Force

Force (N) CFC1000

Max 70.4 N at 199.6 msec**Min -1481.3 N at 74.4 msec**

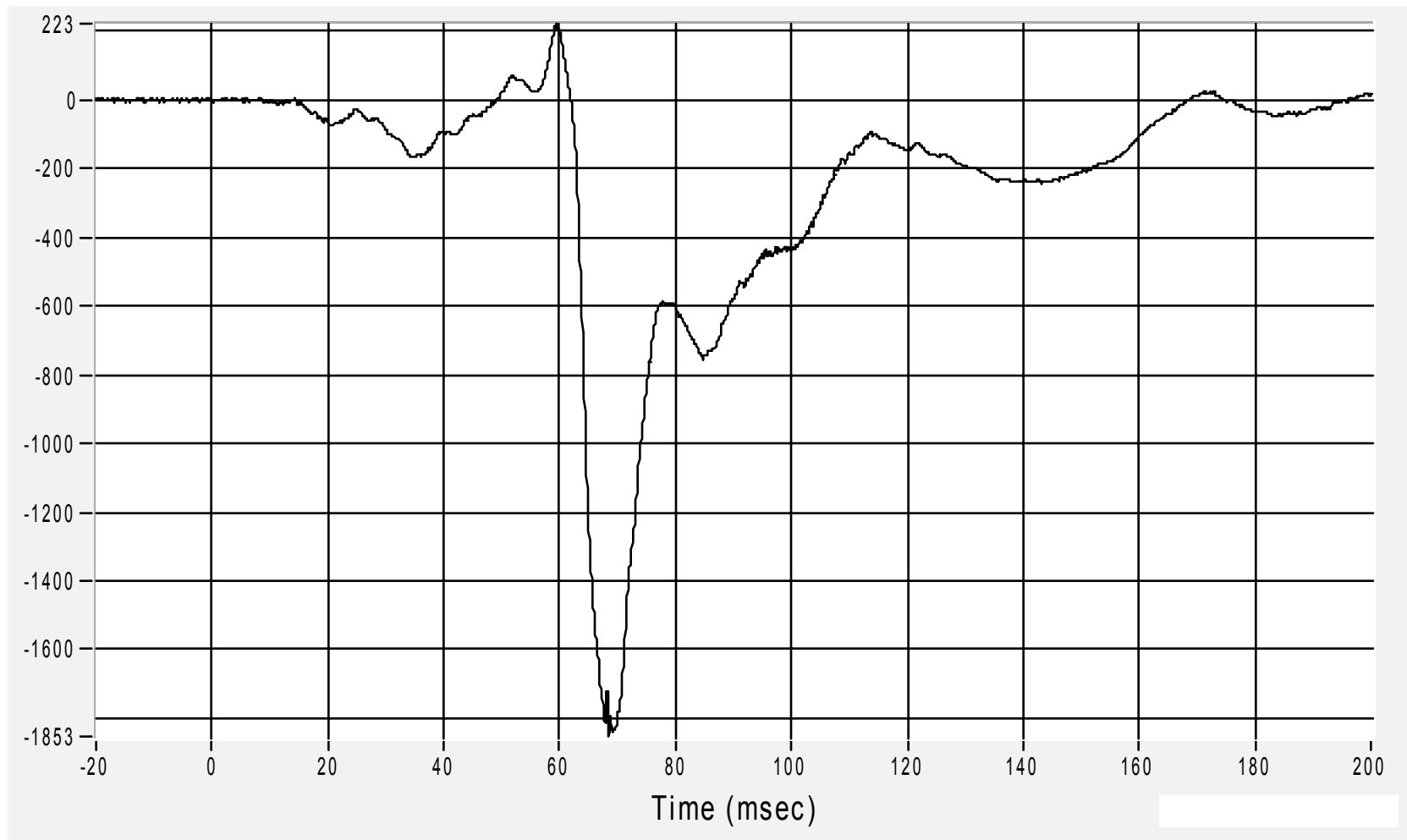
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Passenger Upper Neck (Z) Force
Force (N) CFC1000

Max 222.6 N at 59.4 msec
Min -1853.3 N at 68.6 msec



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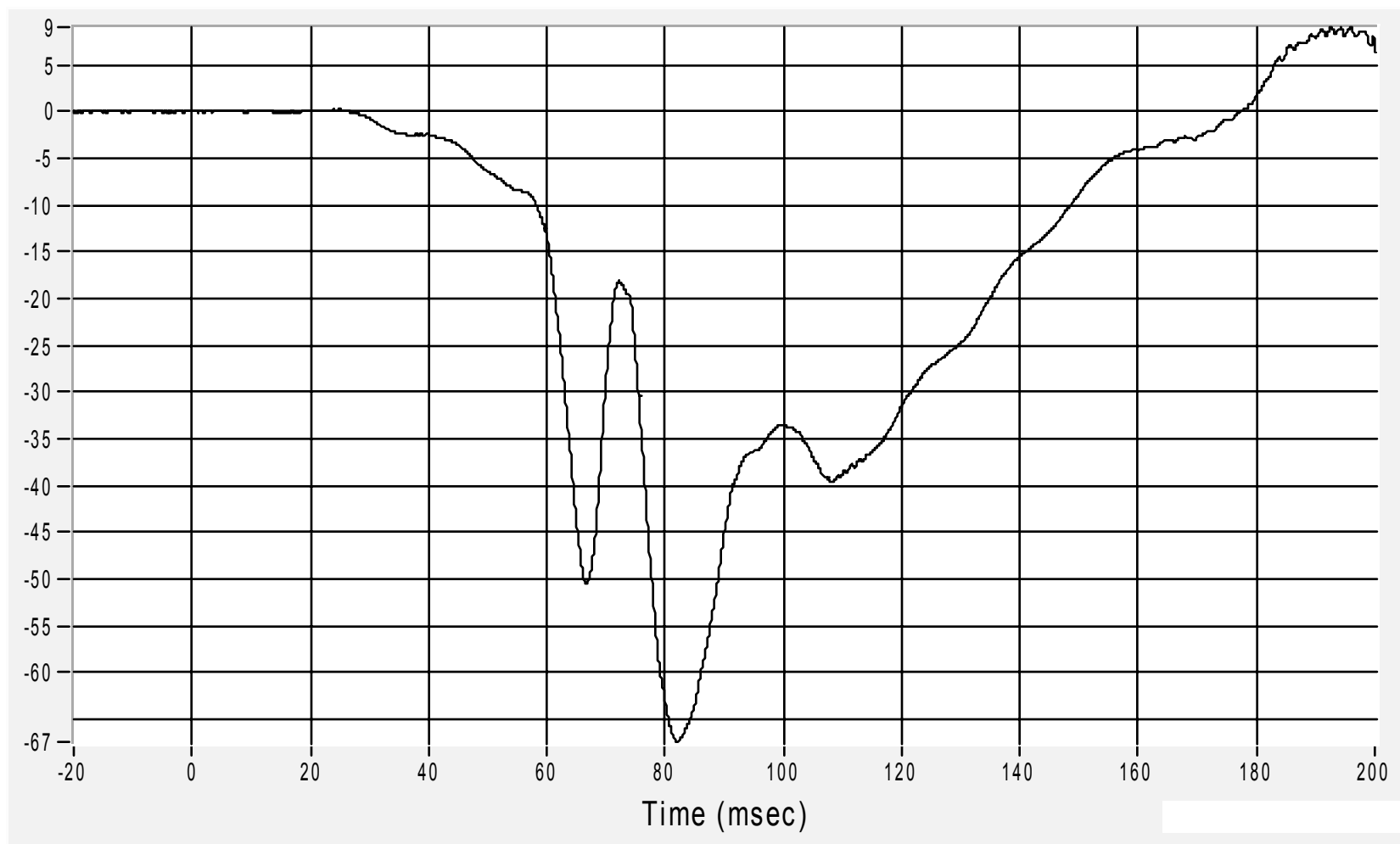
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Passenger Upper Neck (X) Moment

Moment (Nm) CFC600

Max 9.1 Nm at 192.6 msec

Min -67.5 Nm at 82.0 msec



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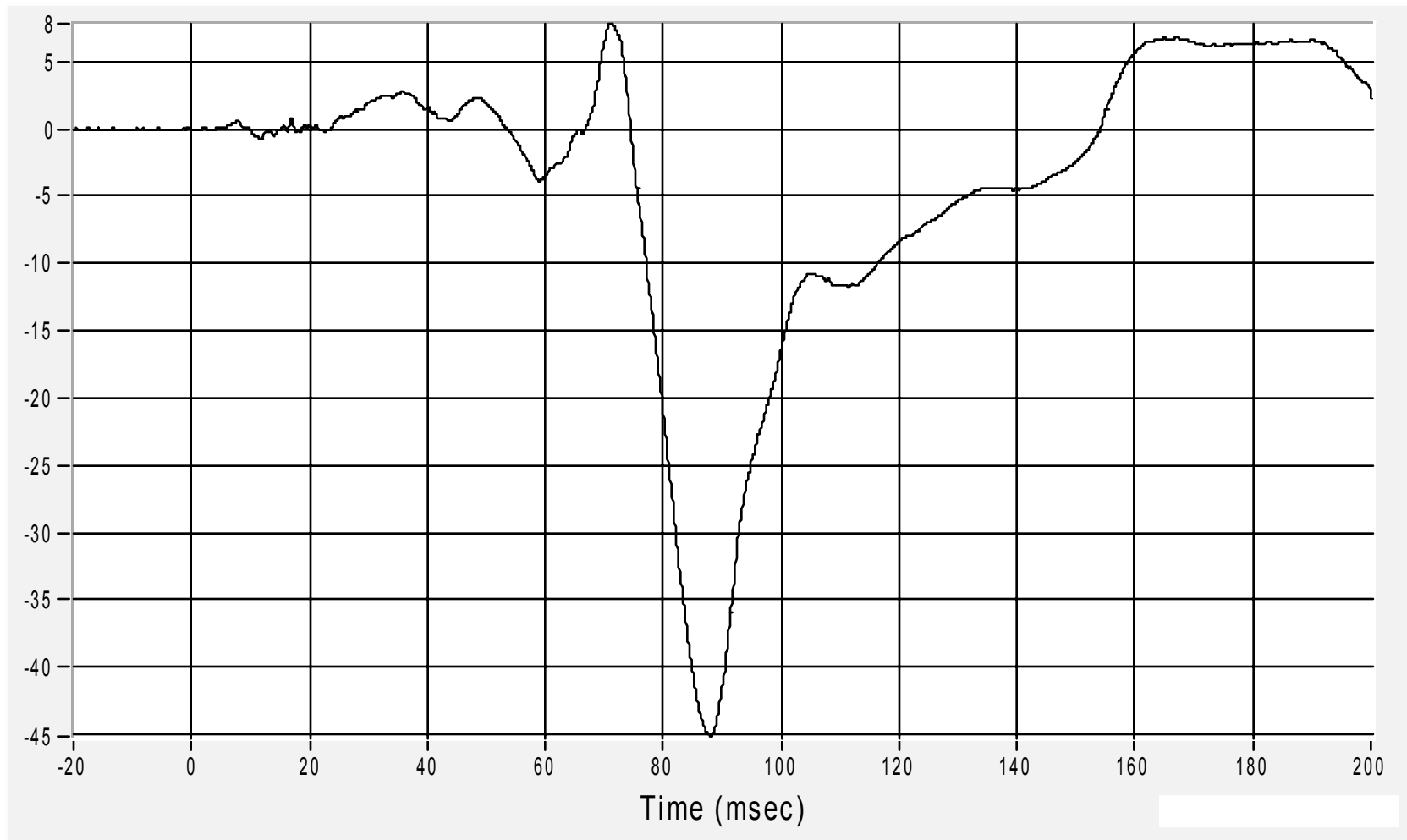
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Passenger Upper Neck (Y) Moment

Moment (Nm) CFC600

Max 7.8 Nm at 71.3 msec

Min -45.2 Nm at 88.0 msec



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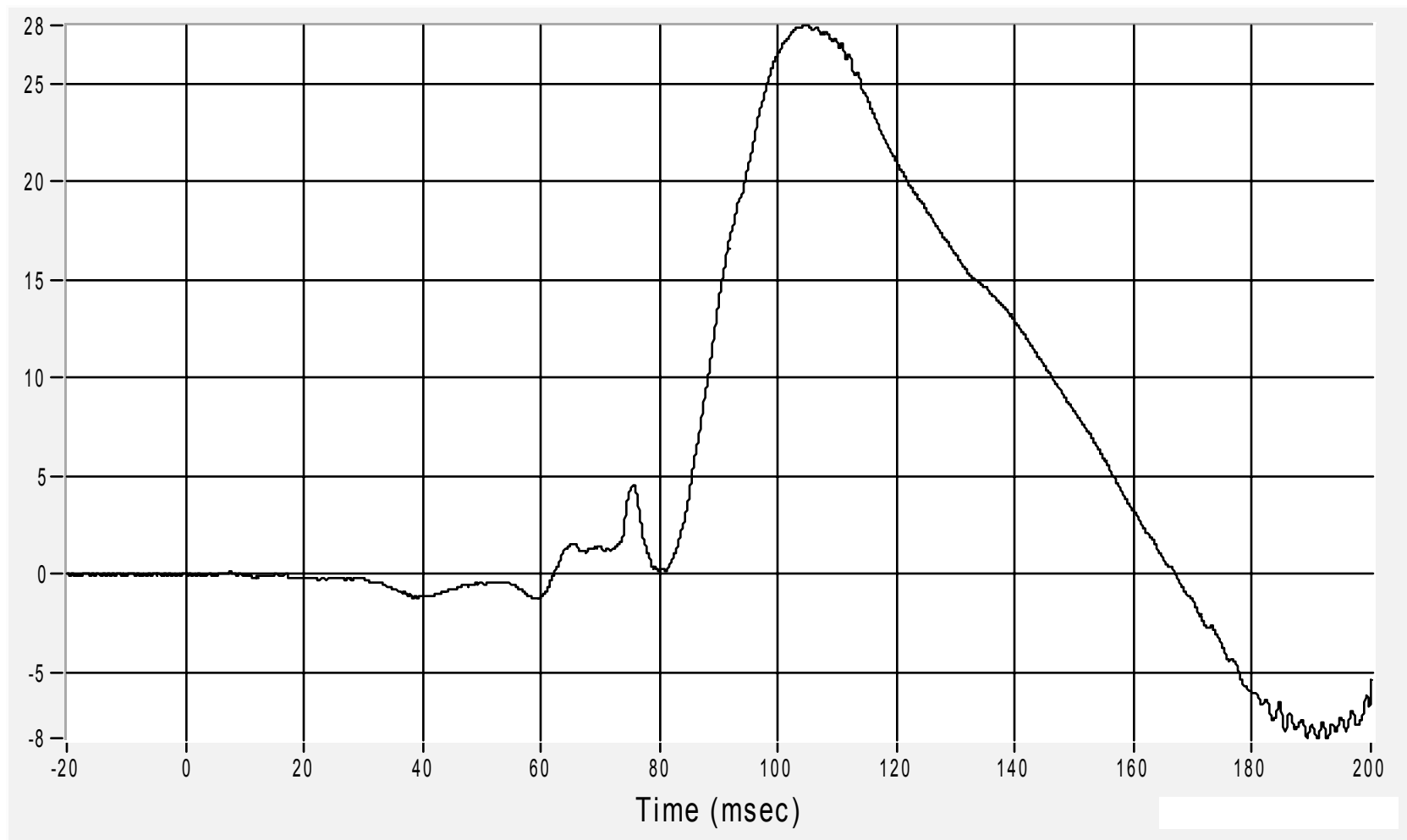
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Passenger Upper Neck (Z) Moment

Moment (Nm) CFC600

Max 28.0 Nm at 104.8 msec

Min -8.3 Nm at 192.6 msec



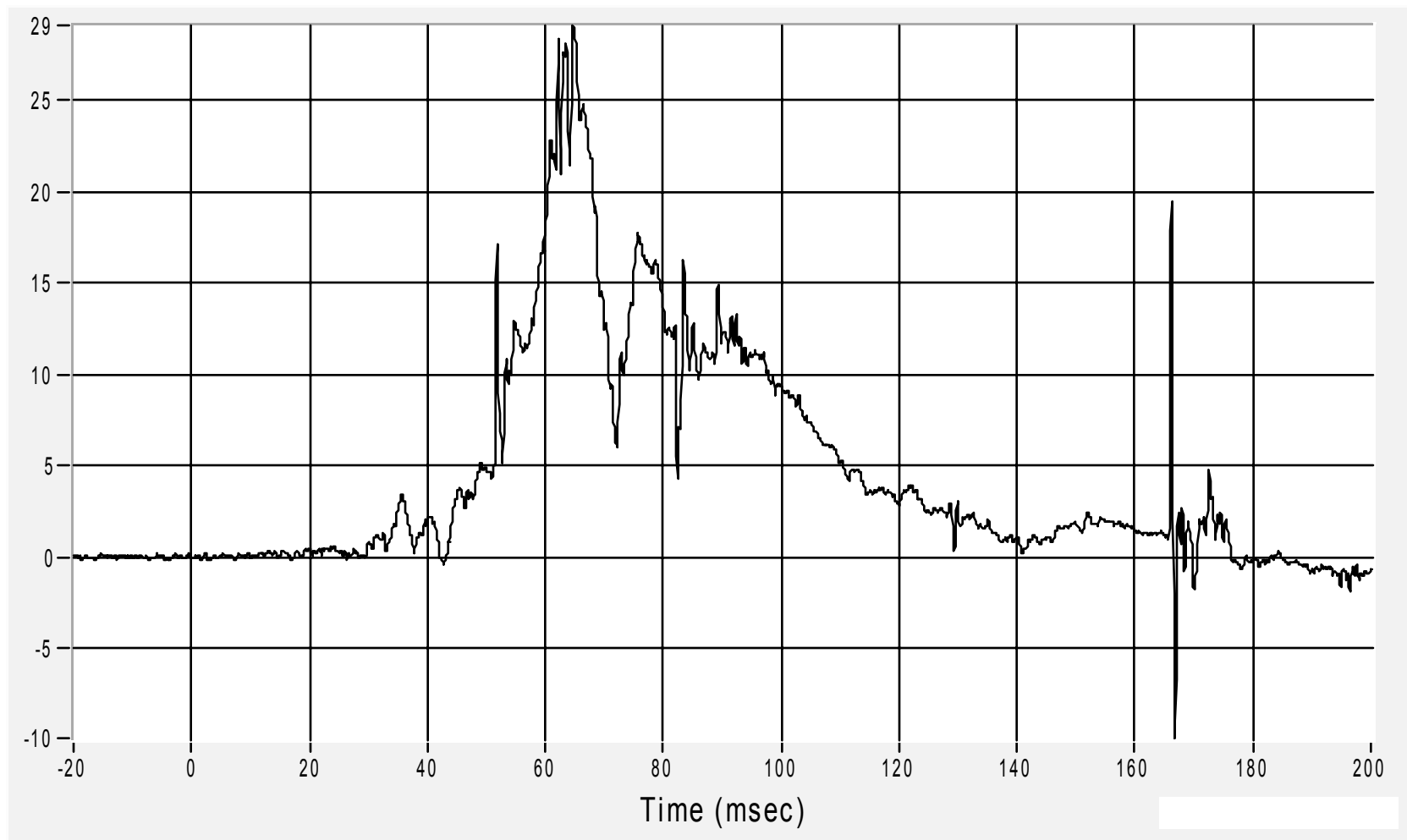
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Passenger Upper Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 29.1 G at 64.7 msec**Min -9.9 G at 166.8 msec**

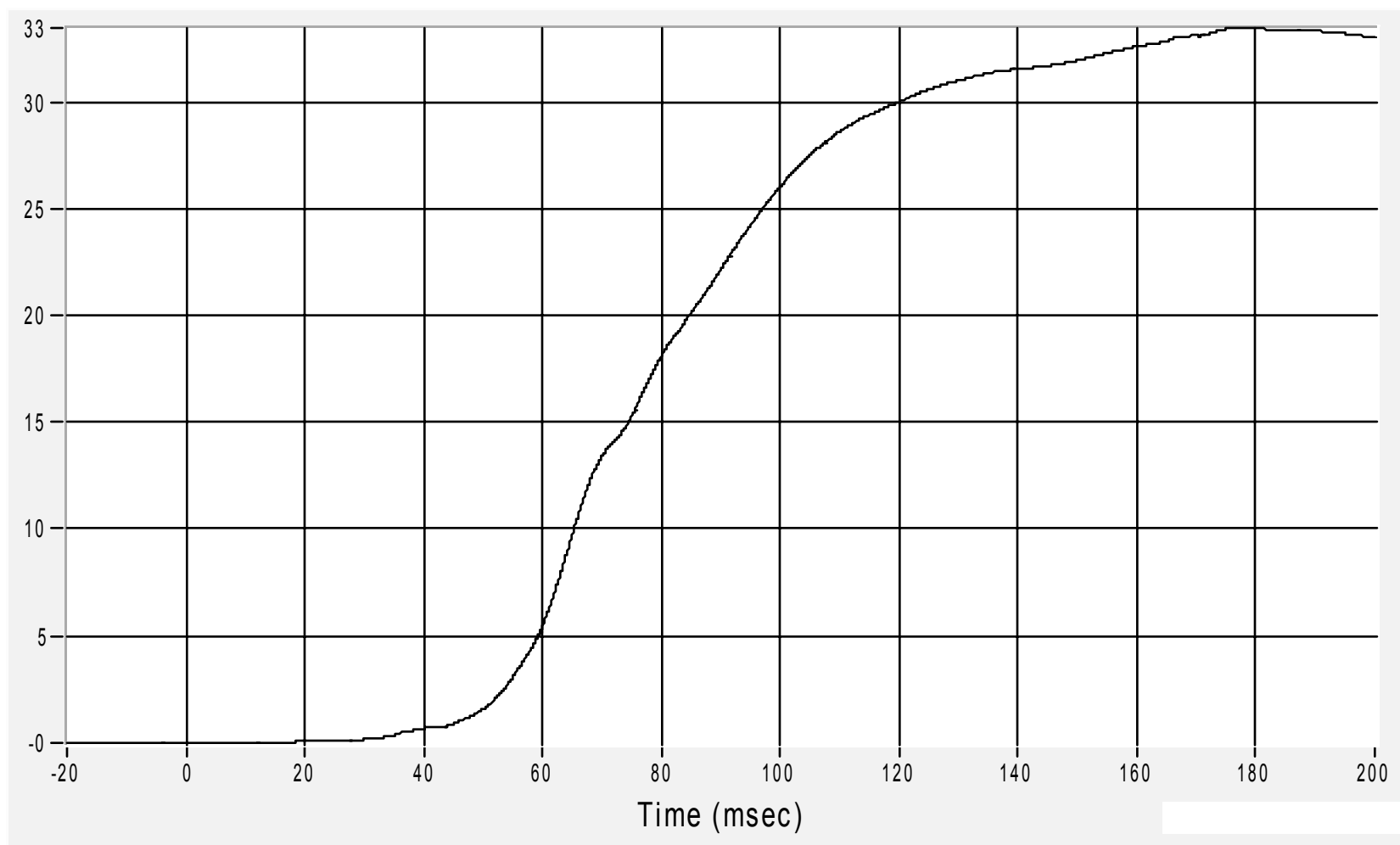
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Passenger Upper Rib (Y) Velocity

Velocity (km/h) CFC180

Max 33.5 km/h at 176.6 msec**Min 0.0 km/h at 4.2 msec**

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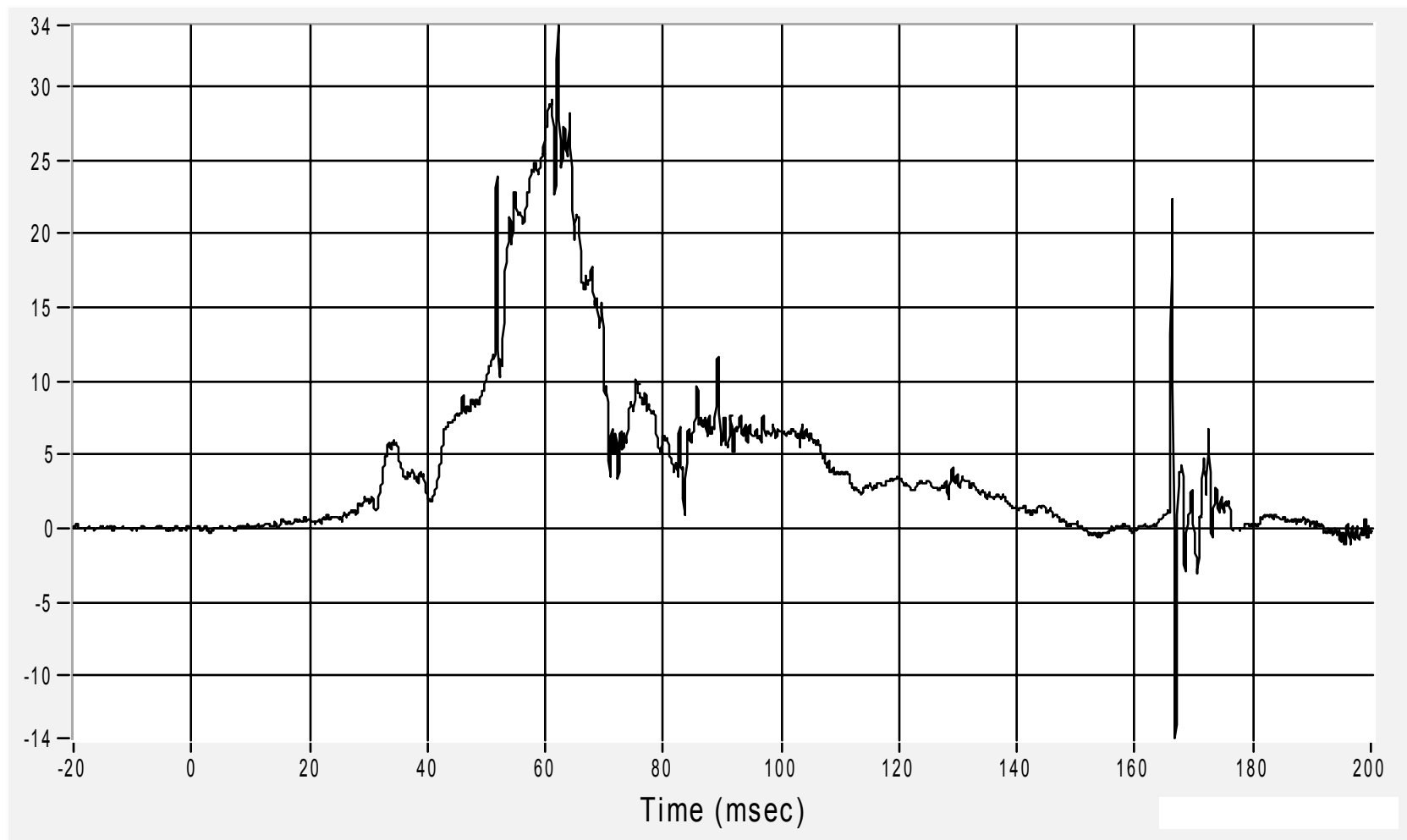
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Passenger Lower Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 34.1 G at 62.2 msec

Min -14.2 G at 166.9 msec



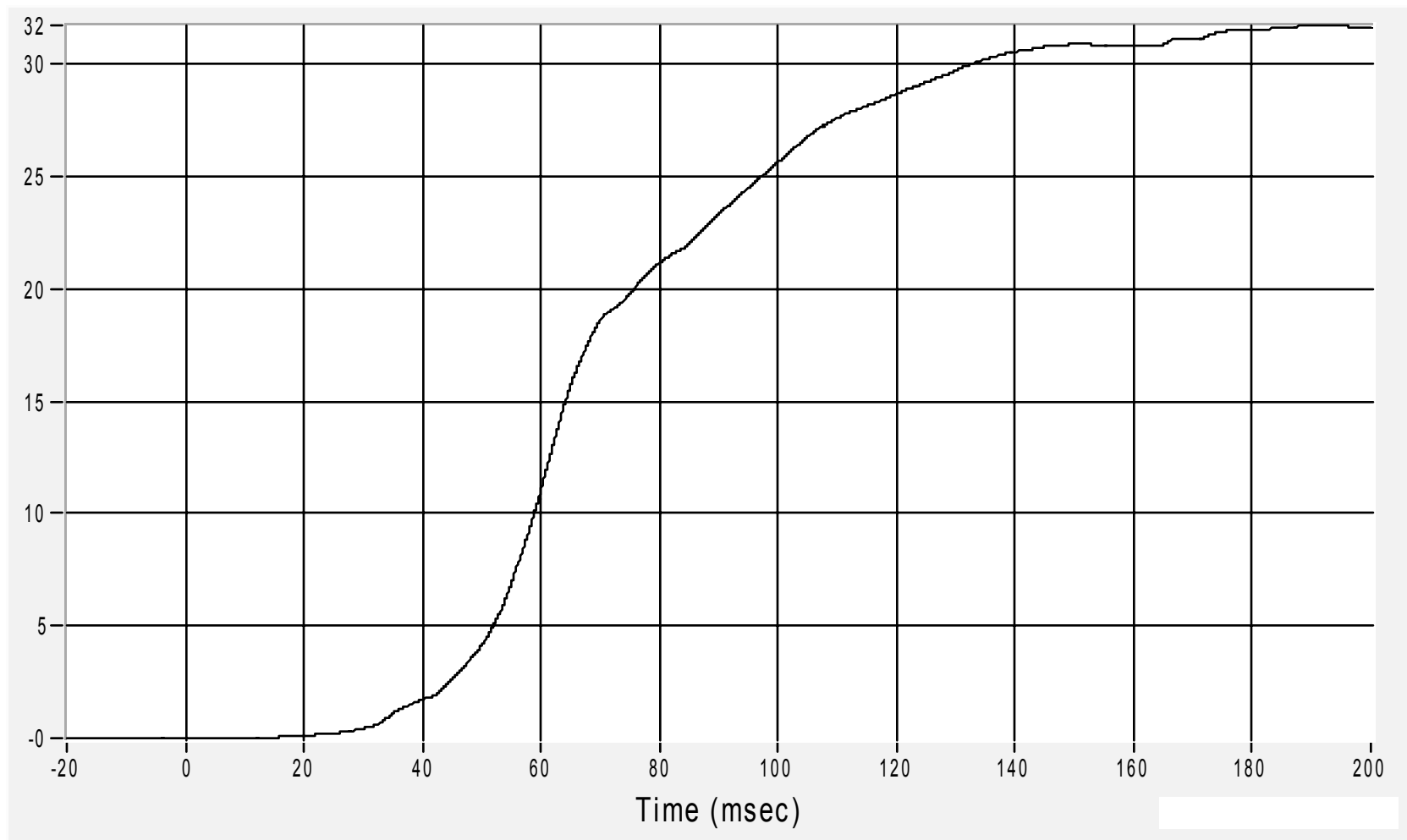
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Passenger Lower Rib (Y) Velocity

Velocity (km/h) CFC180

Max 31.8 km/h at 191.8 msec**Min 0.0 km/h at 4.6 msec**

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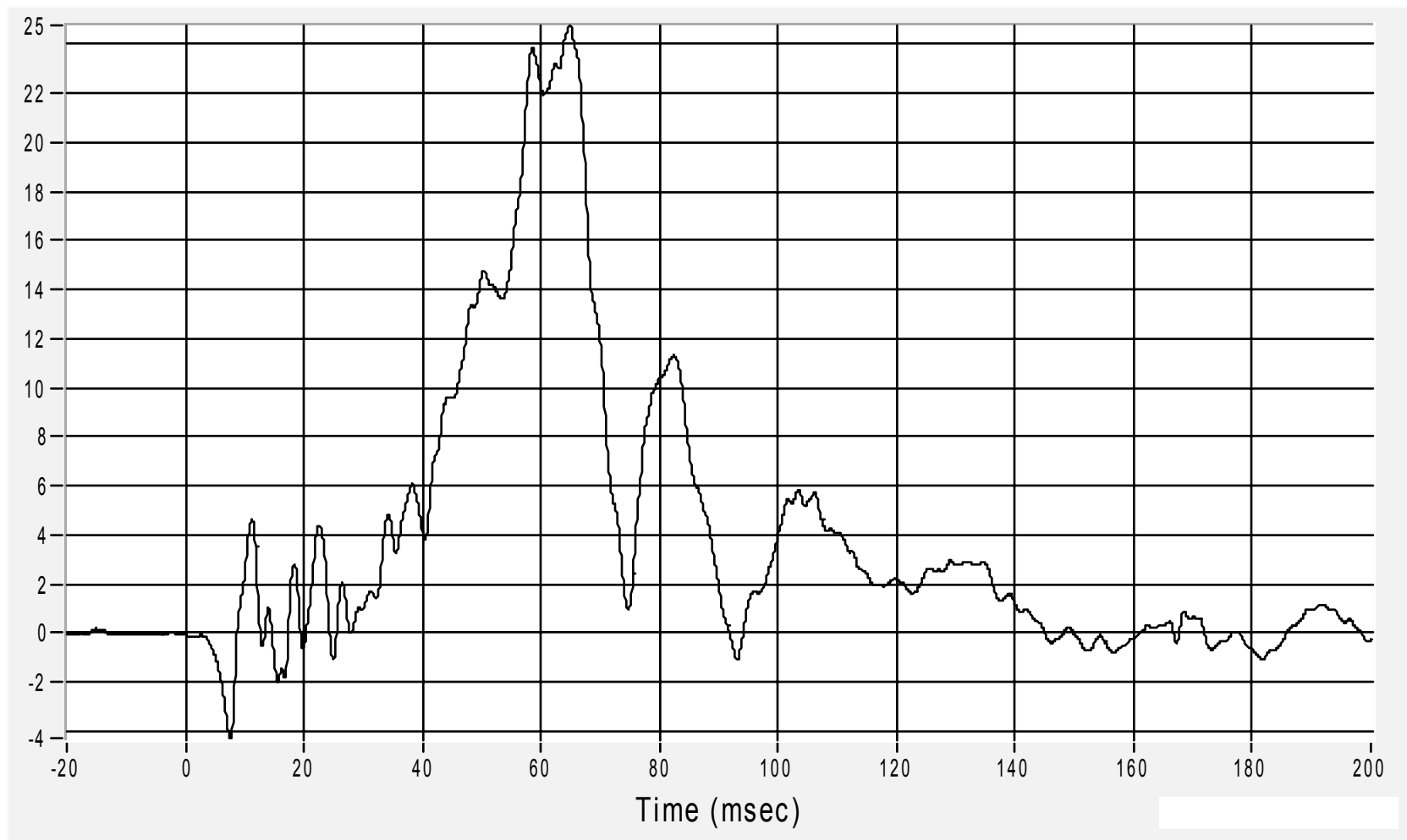
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Passenger Lower Spine (Y) Acceleration

Acceleration (G's) CFC180

Max 24.8 G at 64.9 msec

Min -4.3 G at 7.6 msec



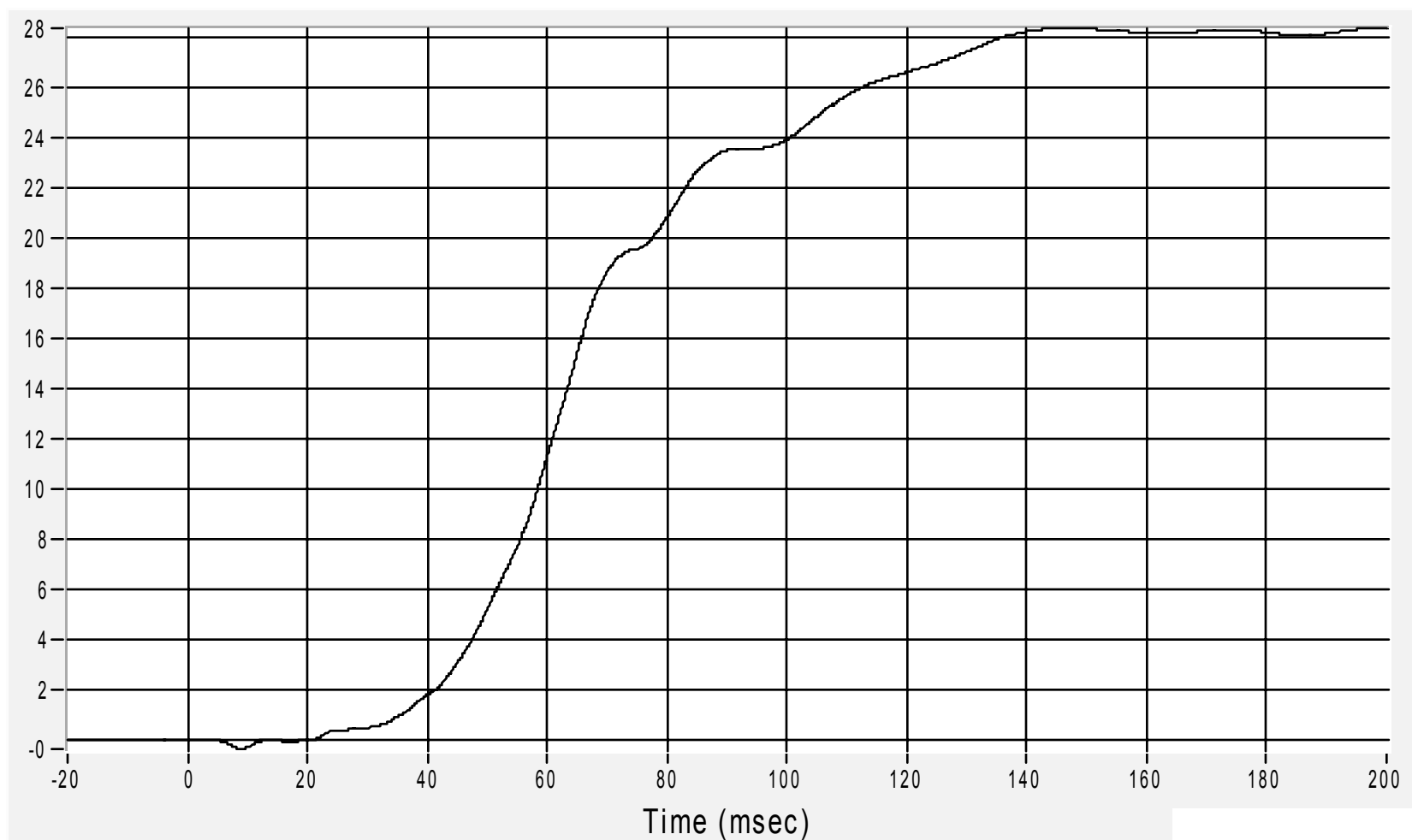
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Passenger Lower Spine (Y) Velocity

Velocity (km/h) CFC180

Max 28.4 km/h at 198.5 msec**Min -0.4 km/h at 8.7 msec**

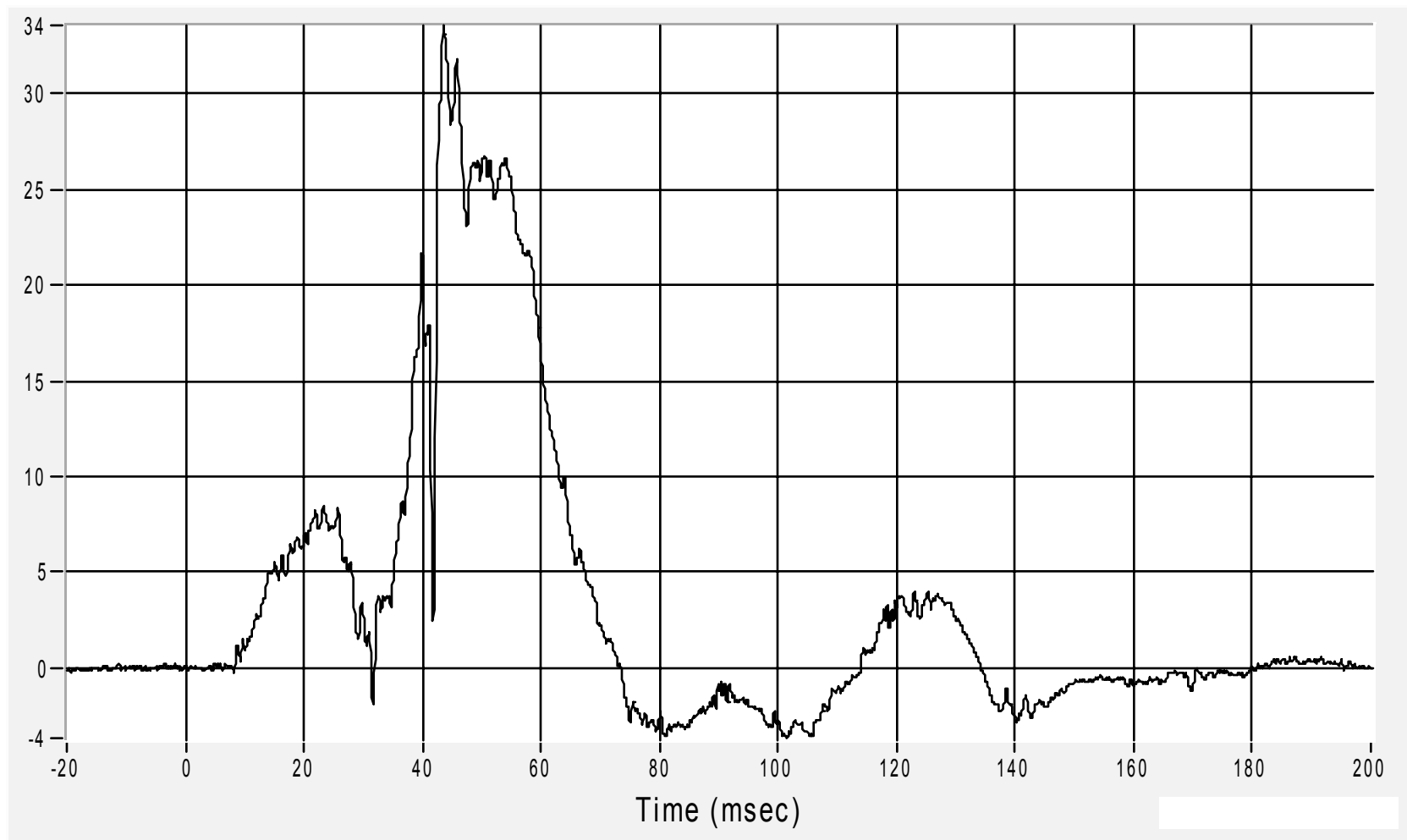
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Passenger Pelvic (Y) Acceleration

Acceleration (G's) CFC1000

Max 33.6 G at 43.5 msec**Min -3.7 G at 101.5 msec**

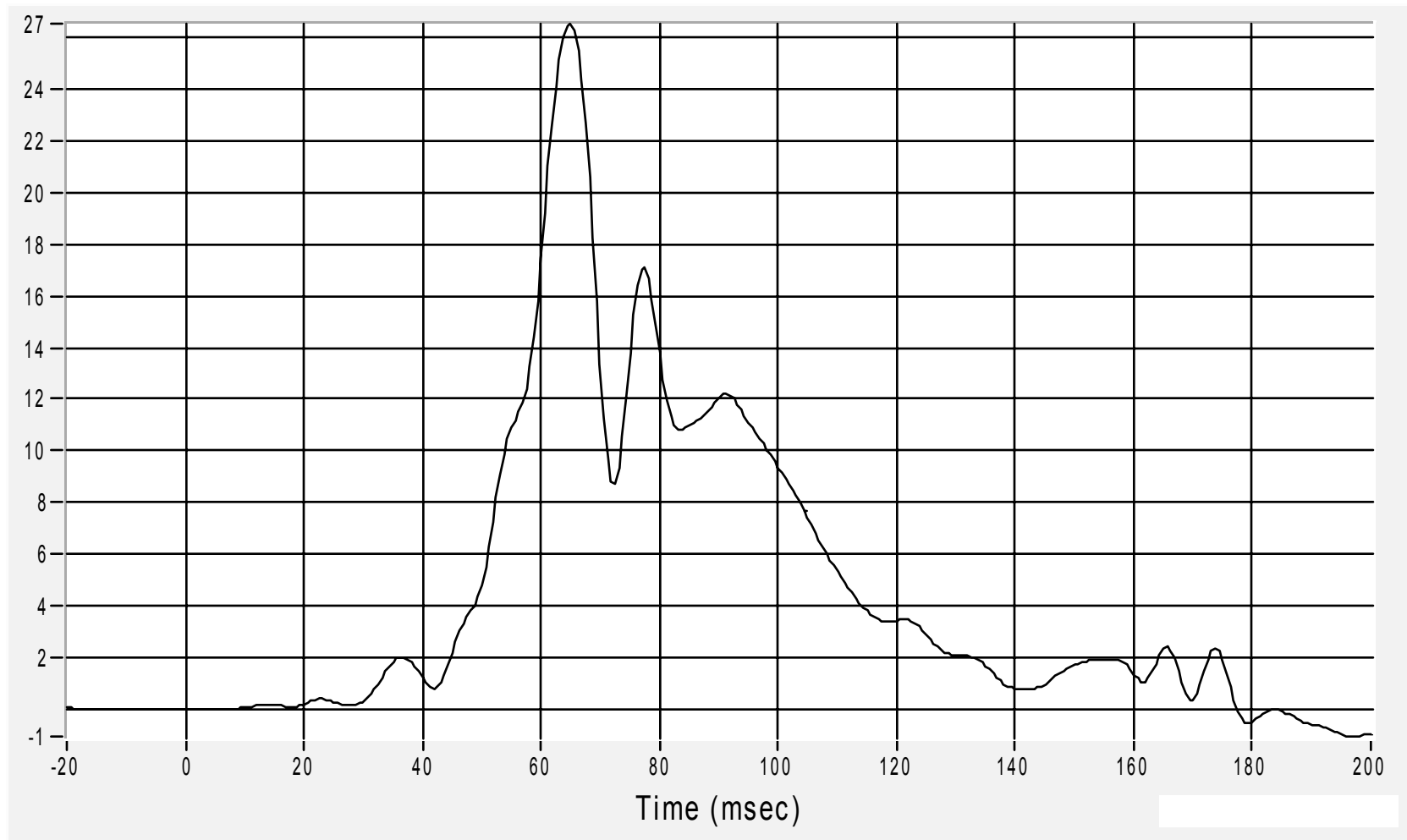
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Passenger Upper Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 26.6 G at 65.0 msec**Min -1.1 G at 196.9 msec**

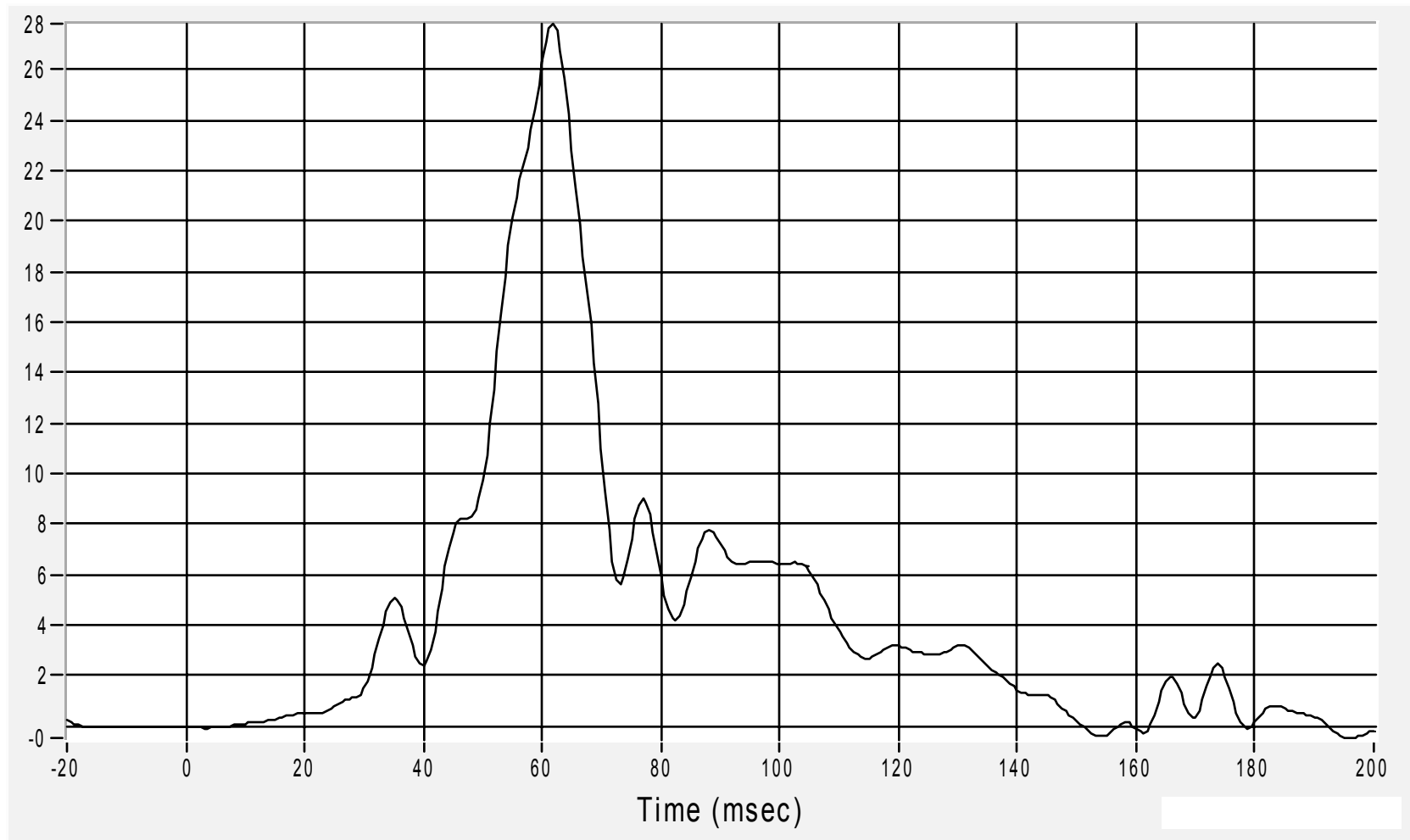
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Passenger Lower Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 27.8 G at 61.9 msec**Min -0.5 G at 195.6 msec**

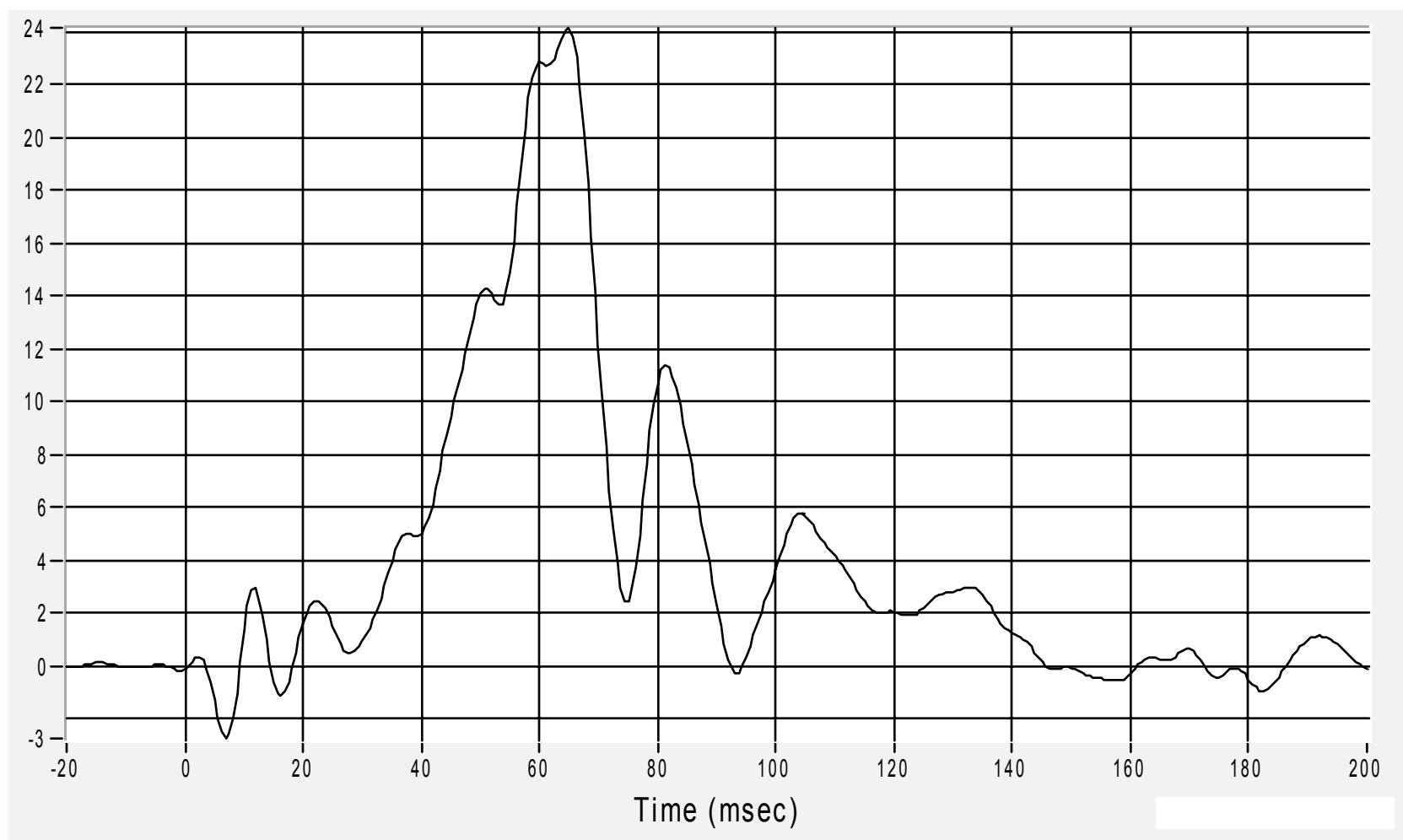
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Passenger Lower Spine (Y) Acceleration

Acceleration (G's) FIR100

Max 24.2 G at 65.0 msec**Min -2.8 G at 6.9 msec**

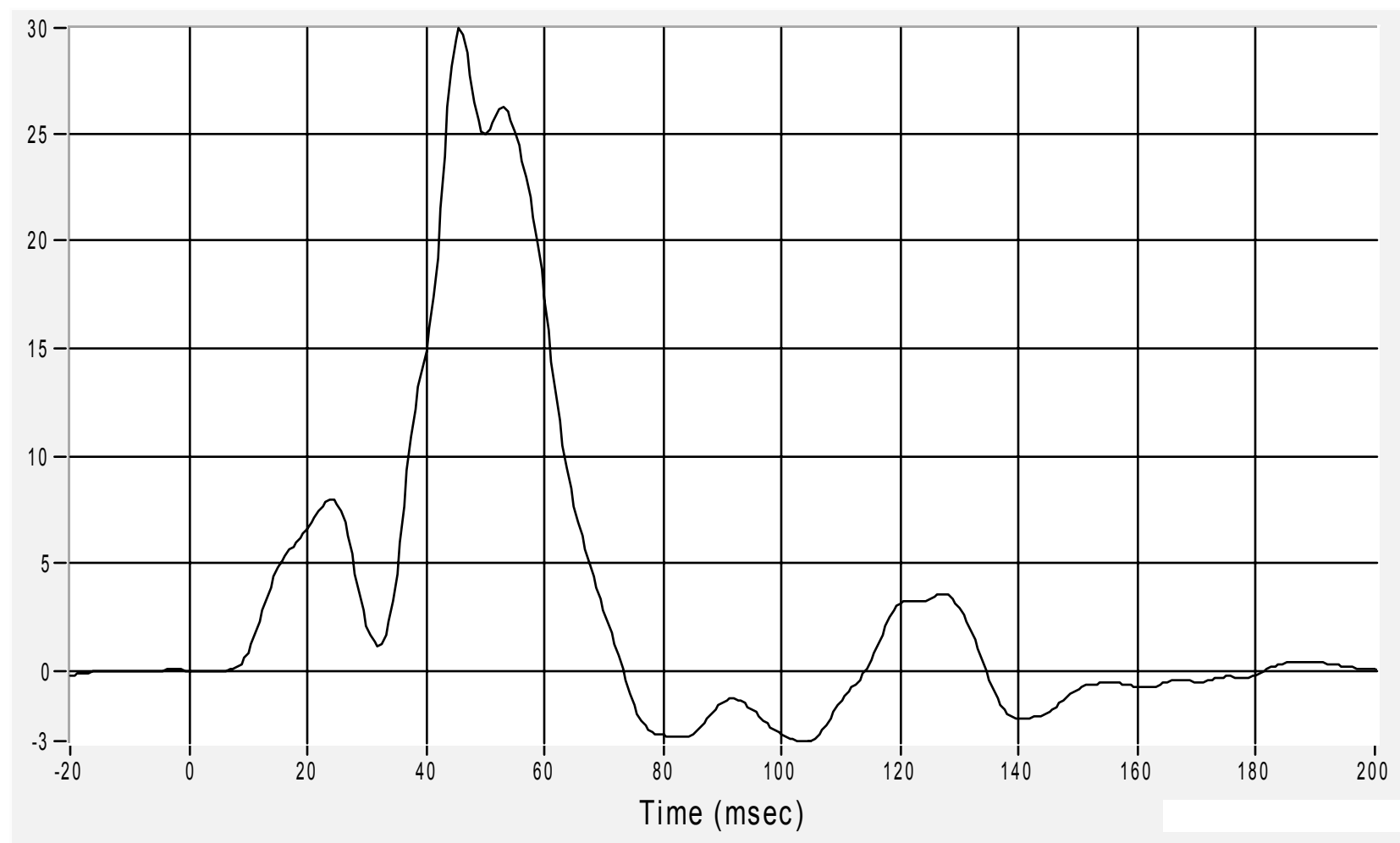
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Passenger Pelvic (Y) Acceleration

Acceleration (G's) FIR100

Max 29.9 G at 45.6 msec**Min -3.3 G at 103.8 msec**

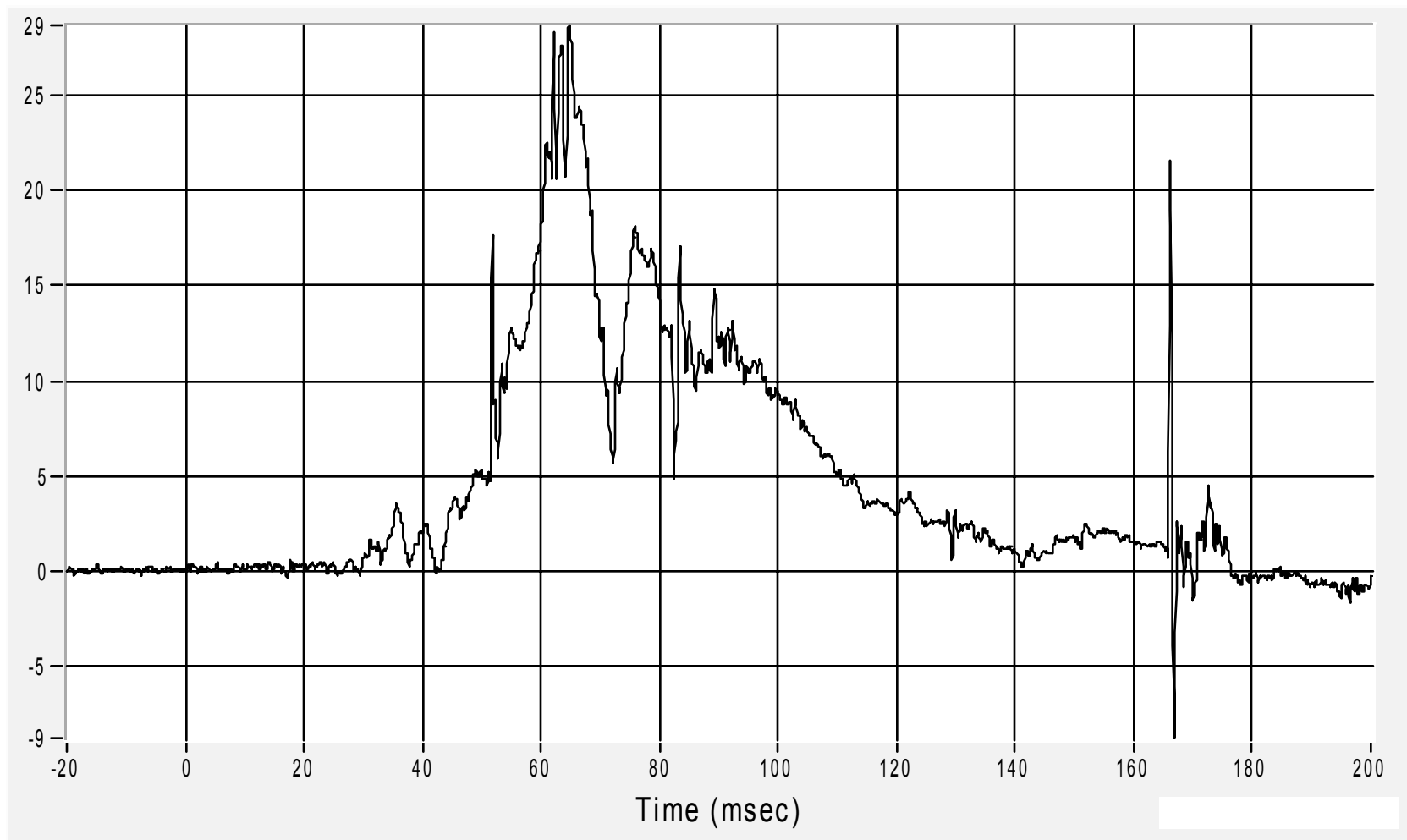
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Passenger Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 28.7 G at 64.7 msec**Min -8.8 G at 166.8 msec**

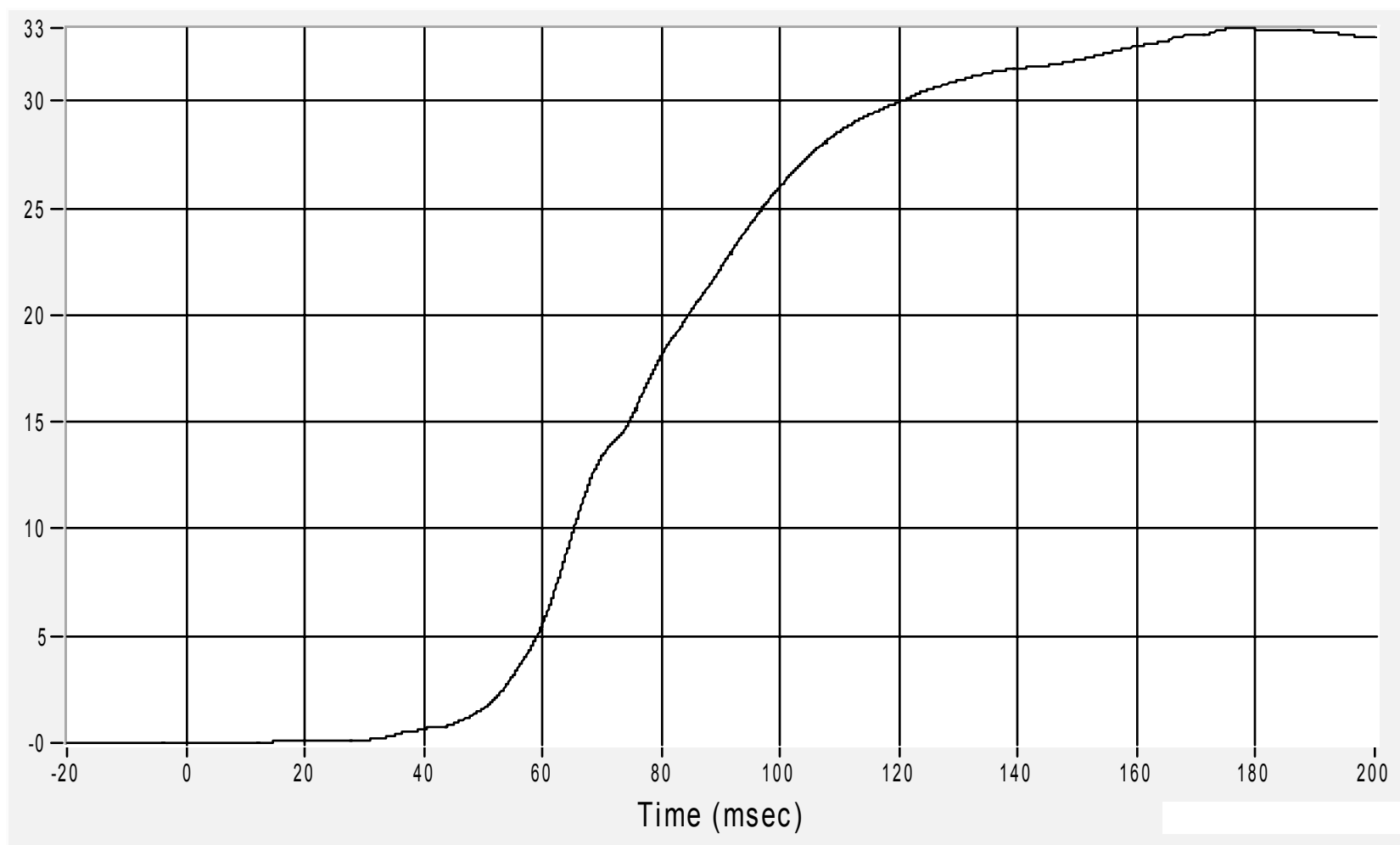
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Passenger Upper Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 33.4 km/h at 176.5 msec**Min 0.0 km/h at 0.0 msec**

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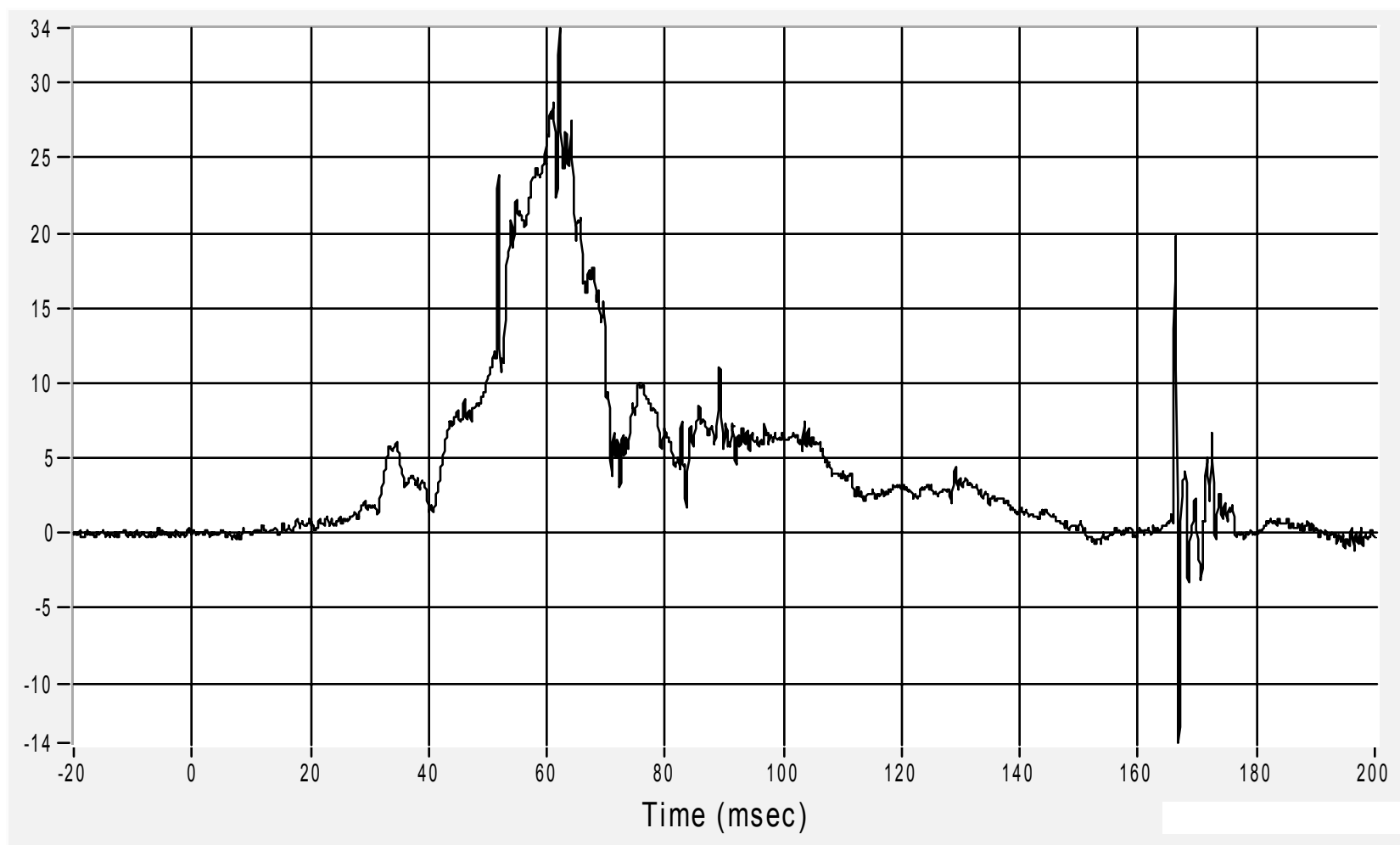
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Passenger Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 33.6 G at 62.1 msec

Min -14.0 G at 166.9 msec



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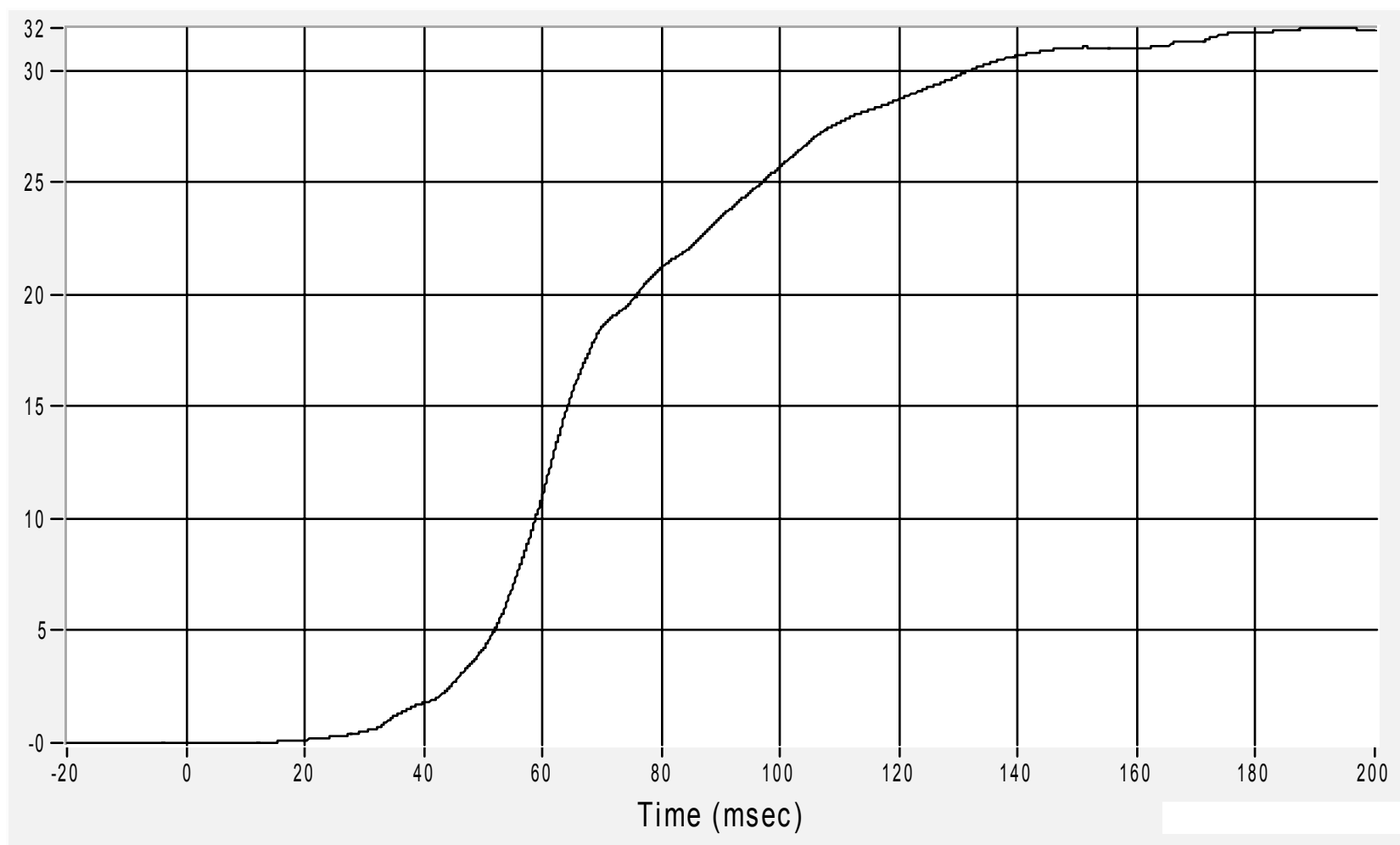
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Passenger Lower Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 31.9 km/h at 191.6 msec

Min 0.0 km/h at 8.4 msec



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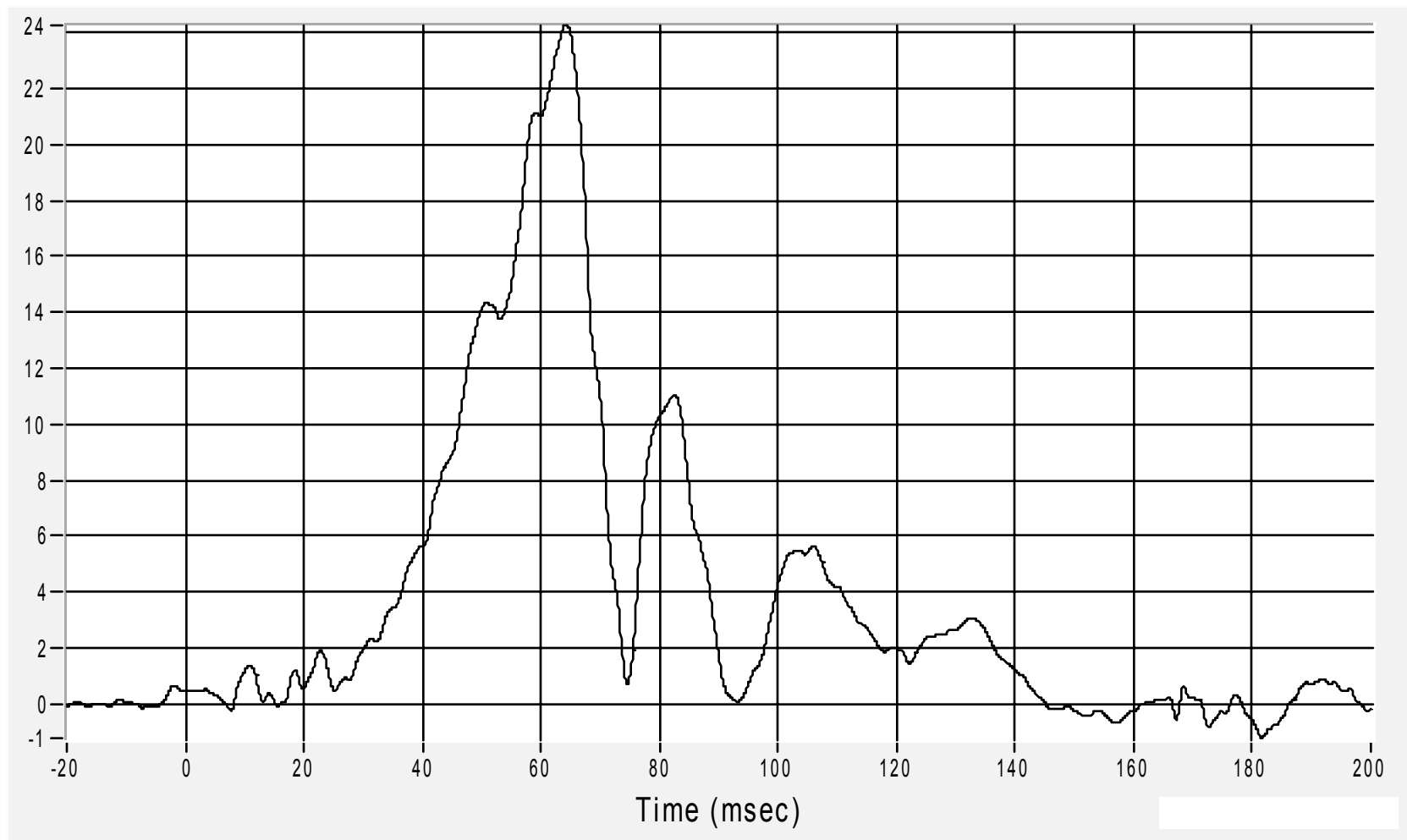
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Passenger Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) CFC180

Max 24.3 G at 64.2 msec

Min -1.2 G at 181.7 msec



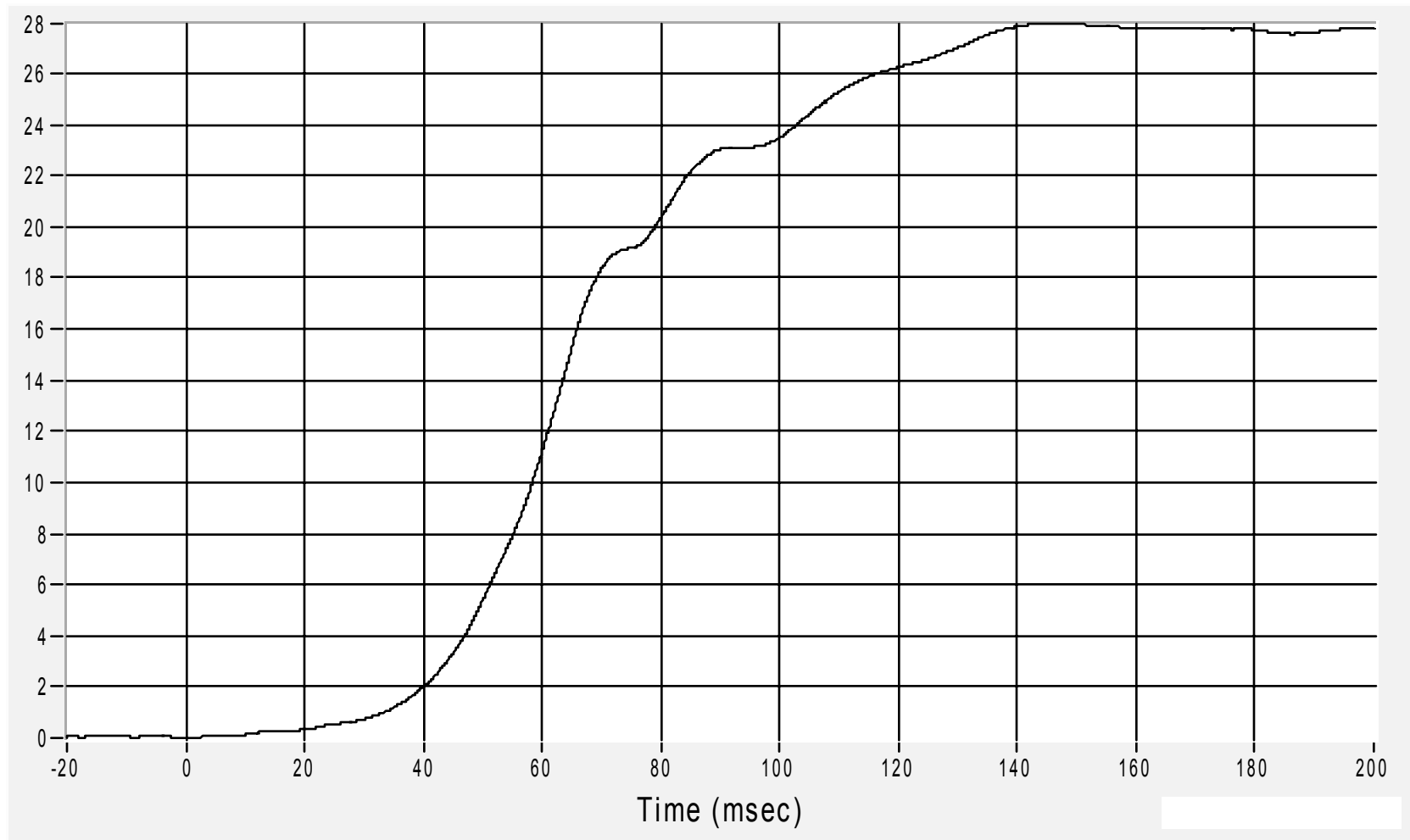
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Passenger Lower Spine (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 28.0 km/h at 145.1 msec**Min 0.0 km/h at 0.0 msec**

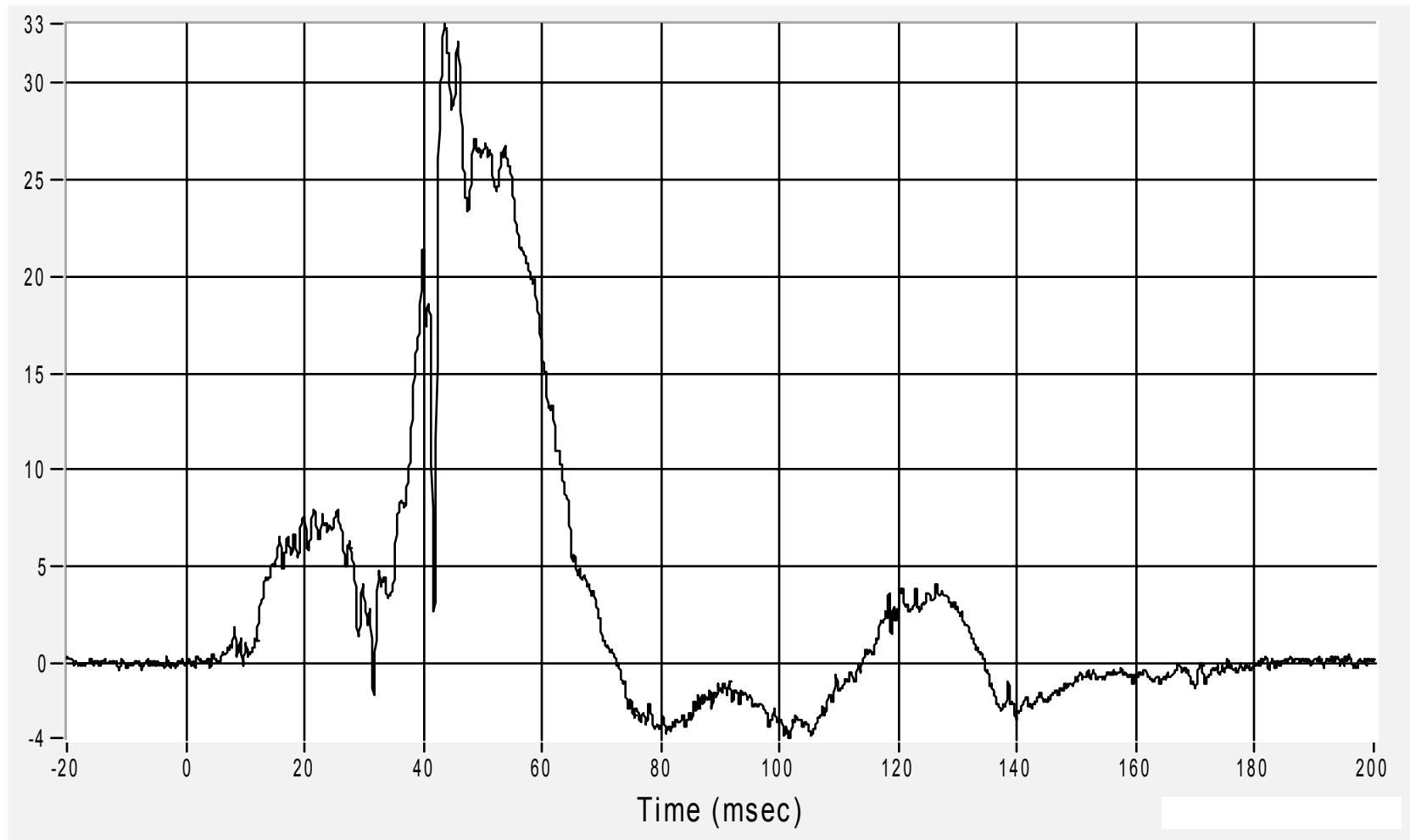
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Passenger Pelvic (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 33.1 G at 43.5 msec**Min -3.9 G at 101.6 msec**

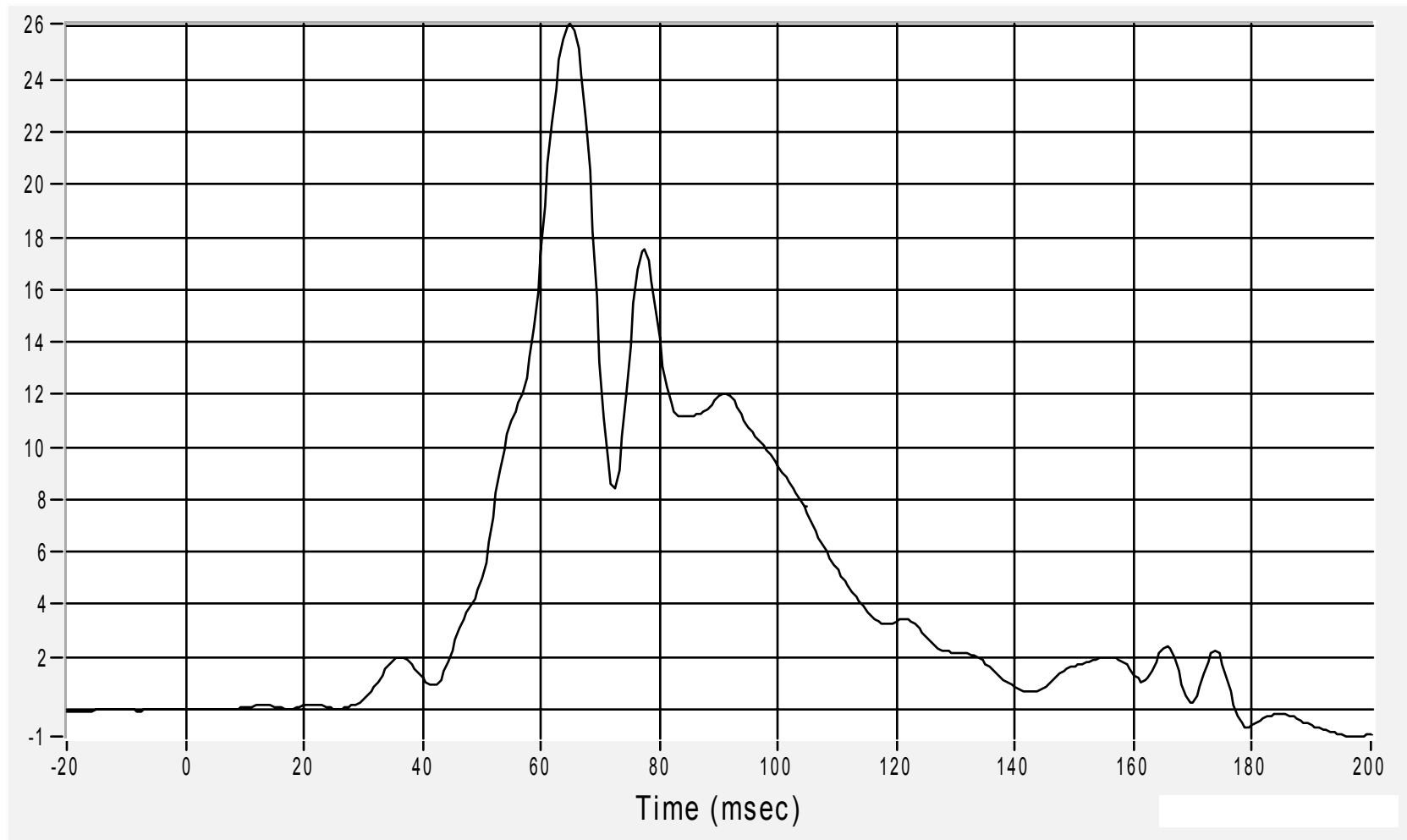
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Passenger Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 26.1 G at 65.0 msec**Min -1.0 G at 196.9 msec**

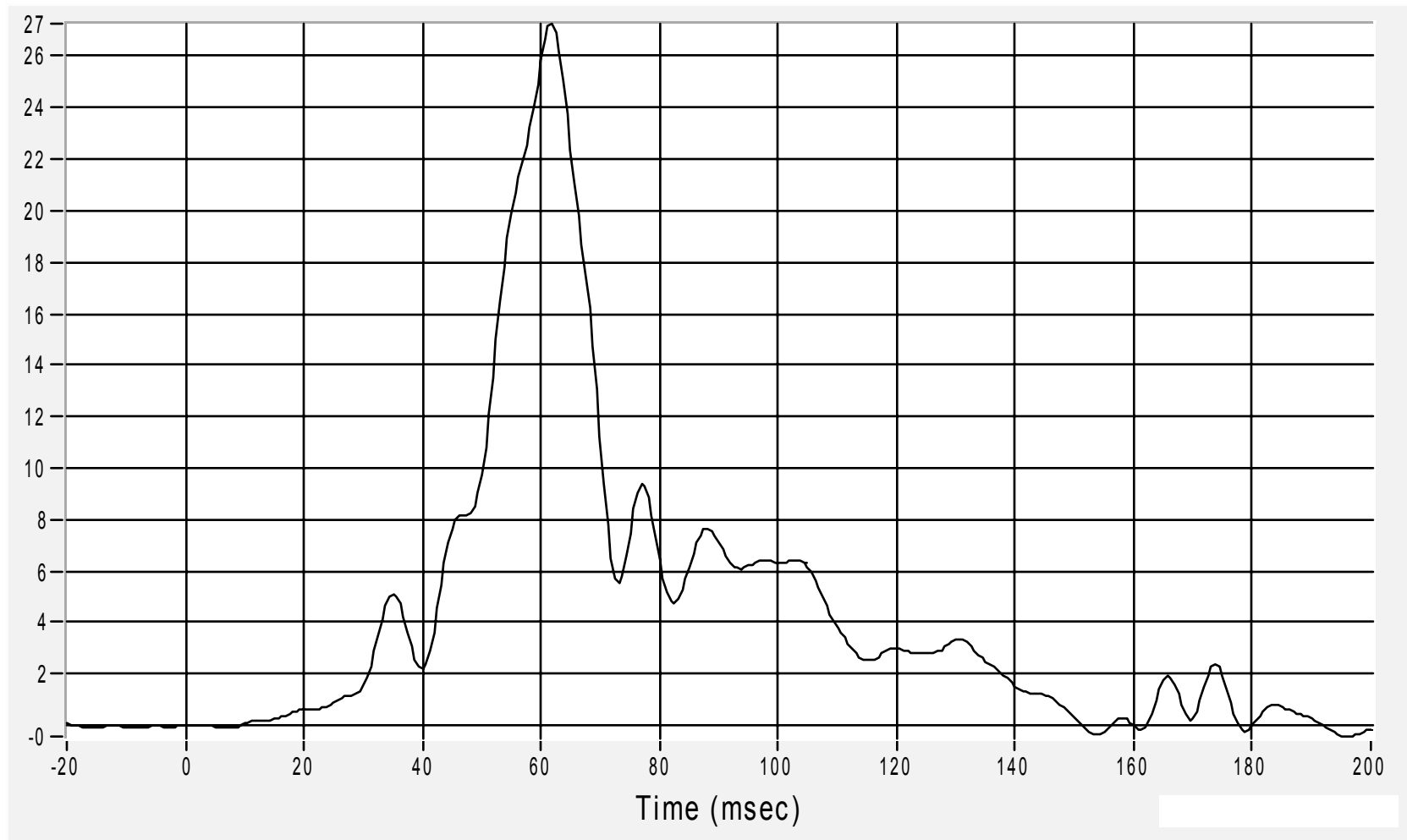
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Passenger Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 27.3 G at 61.9 msec**Min -0.4 G at 195.6 msec**

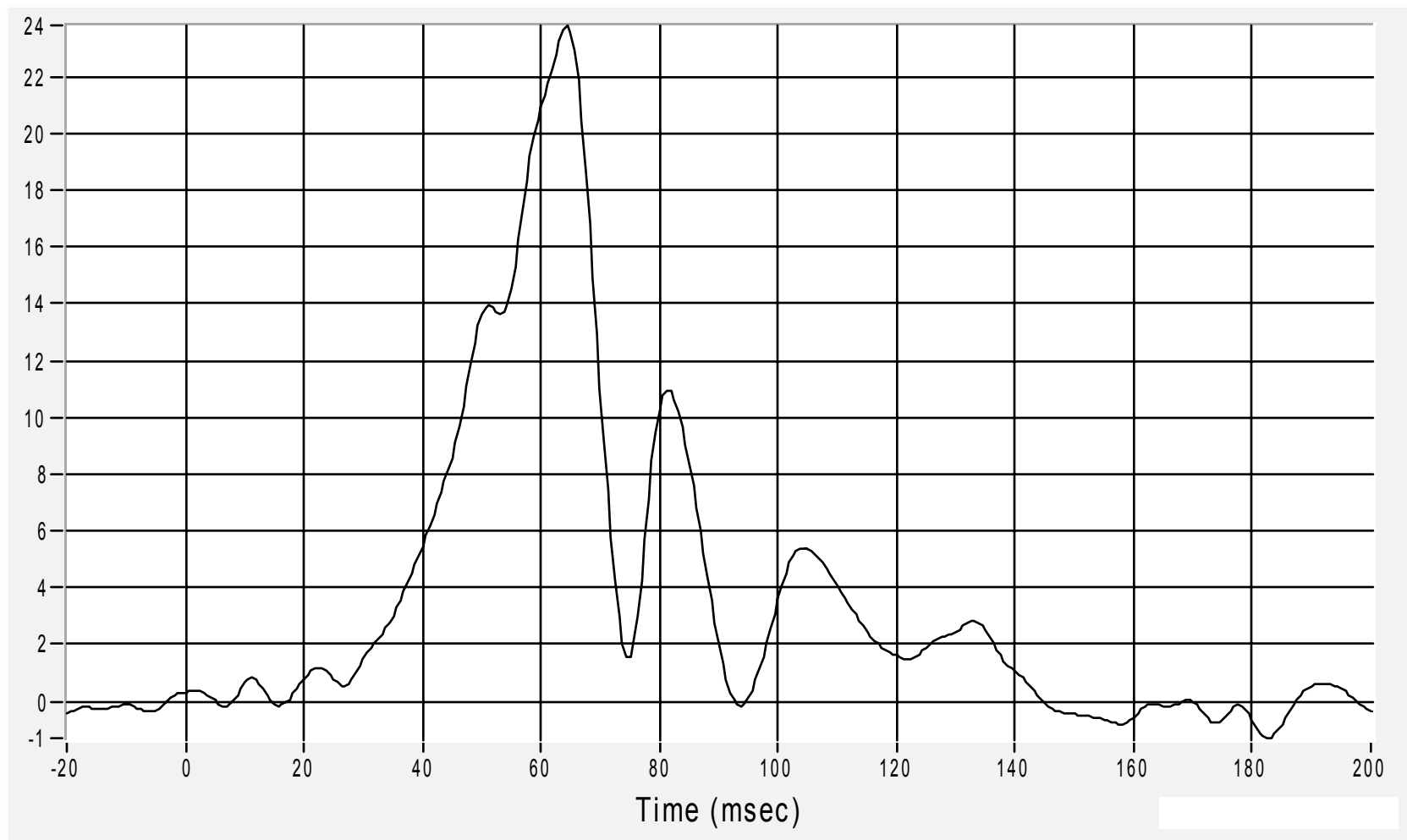
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Passenger Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 23.8 G at 64.4 msec**Min -1.3 G at 182.5 msec**

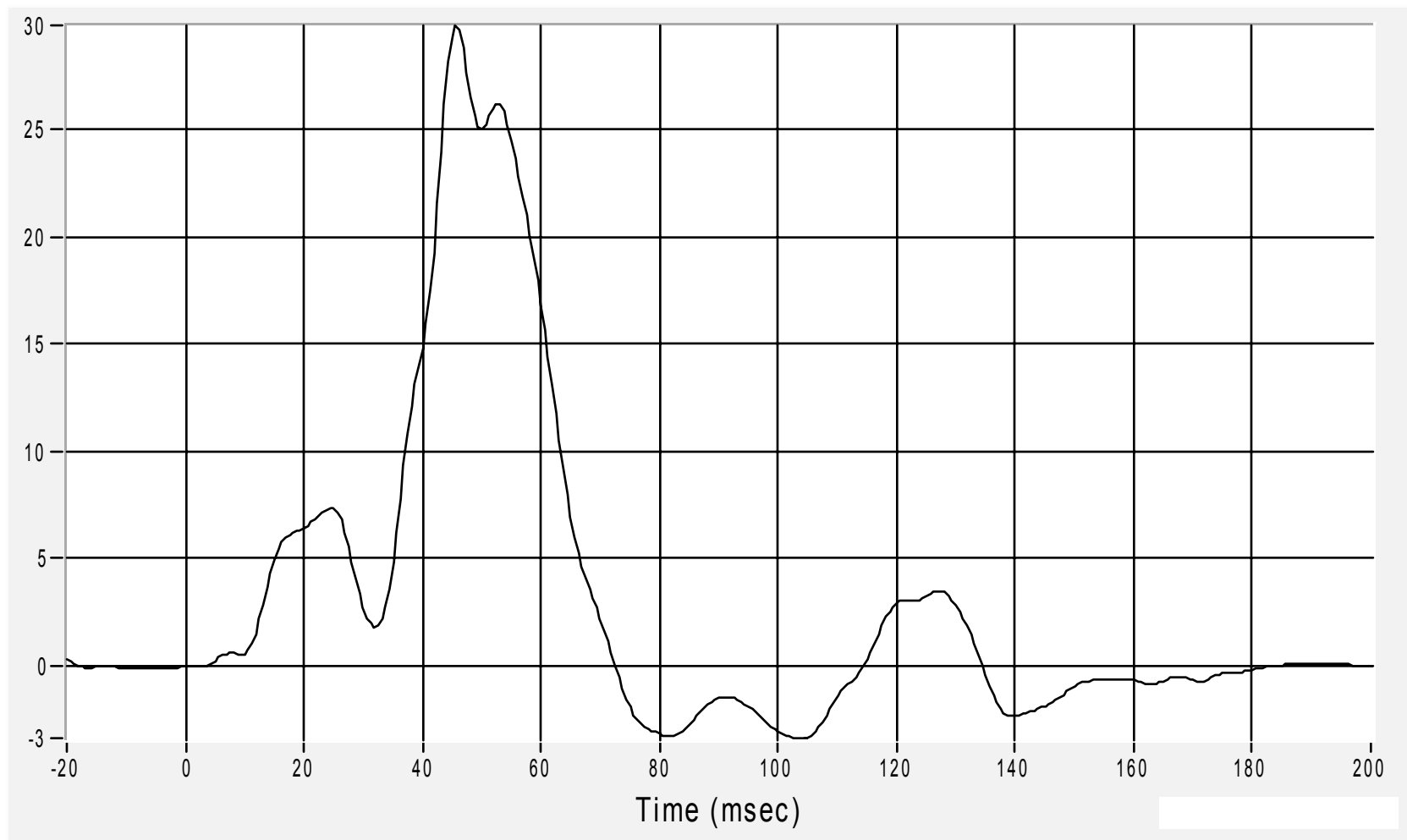
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Passenger Pelvic (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 29.8 G at 45.6 msec**Min -3.4 G at 103.8 msec**

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