

Report Number: 214-TRC-06-008

Safety Compliance Testing For FMVSS 214

Side Impact Protection

Indicant

Ford Motor Company

2007 Ford Edge SUV

NHTSA Number: C70202

Transportation Research Center Inc.

10820 State Route 347

P. O. Box B-67

East Liberty, OH 43319



Test Date: January 3, 2007

Final Report: January 12, 2007

**U. S. Department Of Transportation
National Highway Traffic Safety Administration**

Enforcement

Office of Vehicle Safety Compliance

400 Seventh Street, S. W.

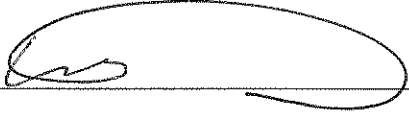
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Washington, DC 20590

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15. Supplemental Notes																																
16. Abstract This 56/28 km/h 90° Impact (Moving Deformable Barrier) Compliance Test was conducted on the subject vehicle, a 2007 Ford Edge SUV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-214D-06 (except the test was conducted 8 km/h (5 mph) faster than the standard specifies) to determine FMVSS 214 Side Impact Protection compliance. This test was conducted by Transportation Research Center Inc. in East Liberty, Ohio, on January 3, 2007. The impact velocity of the Moving Deformable Barrier (MDB) was 61.7 km/h, and the ambient temperature at the struck (driver) side of the target vehicle at the time of impact was 21° C. The target vehicle's post-test maximum crush was 257 mm at Levels 2 & 3. The test or target vehicle's performance is given below (with FIR filter): <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>Front SID HIII</u></th> <th></th> <th style="text-align: center;"><u>Rear SID HIII</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib Acceleration:</td> <td style="text-align: center;">28.2</td> <td>g's</td> <td style="text-align: center;">31.1</td> <td>g's</td> </tr> <tr> <td>Left Lower Rib Acceleration:</td> <td style="text-align: center;">30.2</td> <td>g's</td> <td style="text-align: center;">38.4</td> <td>g's</td> </tr> <tr> <td>Lower Spine Acceleration:</td> <td style="text-align: center;">29.4</td> <td>g's</td> <td style="text-align: center;">55.0</td> <td>g's</td> </tr> <tr> <td>Thoracic Trauma Index, (TTI):</td> <td style="text-align: center;">29.8</td> <td>g's</td> <td style="text-align: center;">46.7</td> <td>g's</td> </tr> <tr> <td>Pelvis Acceleration (PEV):</td> <td style="text-align: center;">51.0</td> <td>g's</td> <td style="text-align: center;">64.8</td> <td>g's</td> </tr> </tbody> </table> The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during side impact event.				<u>Front SID HIII</u>		<u>Rear SID HIII</u>		Left Upper Rib Acceleration:	28.2	g's	31.1	g's	Left Lower Rib Acceleration:	30.2	g's	38.4	g's	Lower Spine Acceleration:	29.4	g's	55.0	g's	Thoracic Trauma Index, (TTI):	29.8	g's	46.7	g's	Pelvis Acceleration (PEV):	51.0	g's	64.8	g's
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Section 1

Purpose and Test Procedure

This side impact test is part of the FMVSS 214 Side Impact Protection Compliance Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-02-D-11114. The purpose of this test was to evaluate side impact protection in a 2007 Ford Edge SUV. The test was conducted in accordance with the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 2001) (except the test was conducted 8 km/h (5 mph) faster than the standard specifies).

Section 2

Summary of Side Impact Test

A 2007 Ford Edge SUV was impacted on the left side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the monorail at a velocity of 61.7 km/h (38.4 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by Transportation Research Center Inc. in East Liberty, Ohio on January 3, 2007. Pre-test and post-test photographs of the test vehicle, the moving deformable barrier (MDB), and the side impact dummies (SID HIIIs) are included in Appendix A.

Two restrained Side Impact Dummies (SID HIIIs) were placed in the driver (Pos. #1) and left rear (Pos. #4) designated seating positions according to the instructions specified in the OVSC Side Impact Laboratory Test Procedure (TP-214D-06, dated July 2001). Both SID HIII dummies were certified prior to this test. The side impact test was documented by one real-time camera and 9 high-speed cameras. Camera locations and other pertinent camera information are included in this report.

The SID HIIIs were instrumented with the following accelerometers:

1. Head (HED) triaxial and redundant accelerometers (X, Y, and Z-directions)
2. Neck (NEK) triaxial force and moment load cells (X, Y, and Z-directions)
3. Left Upper Rib (LUR) uniaxial and redundant accelerometer (Y-direction)
4. Left Lower Rib (LLR) uniaxial and redundant accelerometer (Y-direction)
5. Lower Thoracic Spine (T₁₂) uniaxial and redundant accelerometer (Y-direction)
6. Pelvic (PEV) section uniaxial accelerometer (Y-direction)

A summary of the side impact dummy (SID HIII) configuration and verification test data can be found in Appendix C. A total of 66 channels of data were recorded. Appendix B contains the vehicle, MDB, and dummy response data traces.

The following tables summarize the results of the test:

Injury Criteria	Front SID HIII	Rear SID HIII
TTI (g)	29.8	46.7
PEV (g)	51.0	64.8

Data Acquisition Explanations

The vehicle's left side sill at front seat Y-axis acceleration data channel, 14SILBFR0000ACYA, recorded questionable data throughout the test. This also affected the velocity and displacement calculations.

The vehicle's left side sill at rear seat Y-axis acceleration data channel, 14SILBRE0000ACYA, exceeded full-scale at approximately 17 milliseconds. This also affected the velocity and displacement calculations.

The vehicle's left lower A-post Y-axis acceleration data channel, 11APILLO0000ACYA, exceeded full-scale at approximately 42 milliseconds. This also affected the velocity calculations.

The vehicle's left lower B-post Y-axis acceleration data channel, 14BPILLO0000ACYA, recorded questionable data after 10 milliseconds. This also affected the velocity calculations.

The vehicle's left front seat track Y-axis acceleration data channel, 11SETRFR0000ACYA, recorded questionable data after 50 milliseconds.

The vehicle's left rear seat track Y-axis acceleration data channel, 14SETRLERE00ACYA, recorded questionable data throughout the test.

Section 3

Summary of Test Results

Data Sheet 1

General Test Vehicle Parameter Data

Test Vehicle Information:

Vehicle Year/Make/Model: 2007 Ford Edge
Vehicle Body Style/Color: SUV/Red VIN: 2FMDK38C67BA33861
Vehicle NHTSA No.: C70202 Build Date: 11/06
Engine Data: 6 Cylinders; CID; 3.5 Liters; cc
Placement: X Longitudinal; or - Lateral; or - Horizontal
Transmission: Speed; Manual; X Automatic; Overdrive
Final Drive: - RWD; X FWD; - Four-Wheel Drive
Odometer Reading: 30 miles
Options: X A/C; X Power steering; X Power brakes; X Power windows

Data From Vehicle's Tire Placard:

Tire Pressure (at capacity)¹ 240 kPa Front; 240 kPa Rear
Recommended Tire Size: P245/60R18
Tires on Test Vehicle: 245/60R18 Manufacturer: Continental, Cross Contact

Vehicle Capacity Data:

Number of Occupants: 2 Front; 3 Rear; 3rd seat; 5 Total
Type of Front Seats: X Bucket; - Bench; - Split bench
Type of Front Seat Back: - Fixed; X Adjustable with X Lever or - Knob
Vehicle Max. Capacity Loading = 412 kg (A)
No. of Occupants x 68.04 kg. = 340 kg (B)
Vehicle Cargo Capacity (A-B) = 72 kg

Test Vehicle Delivered Weight With Maximum Fluids:

Left Front	=	<u>565.8</u> kg	Left Rear	=	<u>392.0</u> kg
Right Front	=	<u>553.8</u> kg	Right Rear	=	<u>377.6</u> kg
Total Front	=	<u>1119.6</u> kg	Total Rear	=	<u>769.6</u> kg
Front % of Total Weight	=	<u>59.3</u> %	Rear % of Total Weight	=	<u>40.7</u> %
Total Weight	=	<u>1889.2</u> kg			

¹ Tire pressure used in test.

Data Sheet 1 (Continued)

General Test Vehicle Parameter Data

Calculation Of Vehicle's Target Test Weight:

Total Test Vehicle Delivered Weight With Max. Fluids	=	<u>1889.2</u> kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle	=	<u>72.0</u> kg (B)
Weight of Instrumented Side Impact Dummies (2 X <u>84.0</u> kg)	=	<u>168.0</u> kg (C)
Test Vehicle Target Weight:	=	<u>2129.2</u> kg (A+B+C)

Fully Loaded Test Vehicle (UDW + 2 SID HIII s + Cargo):

Left Front	=	<u>621.6</u> kg	Left Rear	=	<u>497.2</u> kg
Right Front	=	<u>552.0</u> kg	Right Rear	=	<u>459.2</u> kg
Total Front	=	<u>1173.6</u> kg	Total Rear	=	<u>956.4</u> kg
Front % of Total Weight	=	<u>55.1</u> %	Rear % of Total Weight	=	<u>44.9</u> %
Total Weight	=	<u>2130.0</u> kg			

As Tested Weight of Test Vehicle (2 SID HIII s + Cargo + Equipment & Instrumentation):

Left Front	=	<u>617.6</u> kg	Left Rear	=	<u>480.5</u> kg
Right Front	=	<u>553.8</u> kg	Right Rear	=	<u>470.0</u> kg
Total Front	=	<u>1171.4</u> kg	Total Rear	=	<u>950.5</u> kg
Front % of Total Weight	=	<u>55.2</u> %	Rear % of Total Weight	=	<u>44.8</u> %
Total Weight	=	<u>2121.9</u> kg			

Test Vehicle Attitude (all dimensions in millimeters):

As Delivered	Fully Loaded	Ready For Test
Right Front <u>852</u>	Right Front <u>852</u>	Right Front <u>852</u>
Left Front <u>850</u>	Left Front <u>838</u>	Left Front <u>839</u>
Right Rear <u>855</u>	Right Rear <u>834</u>	Right Rear <u>838</u>
Left Rear <u>848</u>	Left Rear <u>816</u>	Left Rear <u>819</u>

Data Sheet 1 (Continued)

General Test Vehicle Parameter Data

Test Vehicle Attitude:

	Left Sill Pitch	Right Sill Pitch	Front Bumper L-R Roll	Rear Bumper L-R Roll
As Delivered:	-0.5°	-0.9°	-1.0°	-0.6°
Fully Loaded:	-0.2°	-0.4°	-1.3°	-0.9°
As Tested:	0°	0°	0.9°	-0.2°
Negative Pitch Angle	= Vehicle front down			
Negative Roll Angle	= Driver side down			

Test Vehicle Wheelbase: 2830 mm

C.G. = 1268 mm rearward of front wheel centerline

Total Vehicle Length:

Right Side = 4435 mm

Left Side = 4435 mm

Centerline = 4710 mm

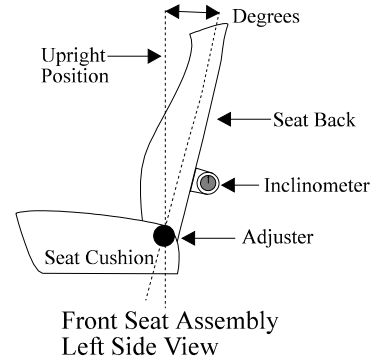
Data Sheet 1 (Continued)

General Test Vehicle Parameter Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Nominal Design Riding Position for adjustable driver and passenger seat backs. Please describe how to position the inclinometer to measure the seat back angle. Include description of the location of the adjustment latch detent, if applicable.



Front Seat Cushion Placement: 143 mm rearward of full forward

Total Length of Fore/Aft Adjustment Travel: 285 mm

Total Number of Adjustment Positions or Detents: N/A

Front Seat Back Adjustment Position: The seat back was adjusted to 7.4° at head rest

Seat Back Torso Angle: N/A degrees

Second Position Seat Placement: Fixed

Total Length Of Fore/Aft Adjustment Travel: N/A mm

Seat Back Adjustment Position: The seat back was adjusted to 12° at head rest

Adjustable Steering Column Position: 29.1°; middle of geometric range of travel

Window Positions:

Right Front: Open

Right Rear: Open

Left Front: Closed

Left Rear: Closed

Note: Windows will be in closed position on struck side of test vehicle and in open position on opposite side.

Amount of Stoddard Solvent In Fuel Tank:

71.9 liters (fuel tank usable capacity)

67.0 liters used in test (92% - 94% of fuel tank usable capacity)

Location of Impact Point On Test Vehicle Side To Be Impacted:

Wheelbase = 2830 millimeters

Intended impact point is 475 millimeters rearward of front axle centerline
(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 484 millimeters rearward of front axle centerline

Data Sheet 2

Test Vehicle Summary of Results

Vehicle Year/Make/Model: 2007/Ford/Edge

Body Style: SUV

VIN: 2FMDK38C67BA33861

NHTSA No.: C70202

Build Date: 11/06

Test Date: 01/03/07

Vehicle Overall Length = 4710 mm

Overall Width = 1910 mm

Vehicle Test Weight (Pre-Test):

Left Front = 617.6 kg Left Rear = 480.5 kg

Right Front = 553.8 kg Right Rear = 470.0 kg

Total Front = 1171.4 kg Total Rear = 950.5 kg

Total Weight = 2121.9 kg

Wheelbase = 2830 mm

Longitudinal C.G. From Center Of Front Axle = 1268 mm

Impact Angle With Respect To Impactor = 90 degrees

Impact Point:

Actual Impact Point is 9 mm right of nominal impact ref. line (Lateral)

Actual Impact Point is 5 mm up from nominal impact point (Vertical)

Maximum Exterior Static Crush:

1. Level 1 (325 mm above ground) = 100 mm

2. Level 2 (740 mm above ground) = 257 mm

3. Level 3 (755 mm above ground) = 257 mm

4. Level 4 (1090 mm above ground) = 124 mm

5. Level 5 (1640 mm above ground) = 0 mm

Maximum Post-Test Intrusion = 257 mm

Occupants:

Front Passenger

Rear Passenger

Dummy Identification 059

055

Restraints Used 3-pt. seat belt and side
curtain and torso airbags

3-pt. seat belt and
side curtain airbags

Instrumentation:

Number of Vehicle Data Channels: = 21

Number of Cameras: Onboard = 3 Offboard = 6 Total = 9

Data Sheet 3

Moving Deformable Barrier (MDB) Summary

MDB Face Manufacturer And Serial Number:

Cellbond, GJ321

Position Of Impactor (MDB) On Monorail:

Crabbed 27° to the left

MDB Specifications:

Overall Width of Framework Carriage	=	<u>1251</u>	mm
Overall Length of MDB (Incl. honeycomb impact face)	=	<u>4014</u>	mm
Wheelbase of Framework Carriage	=	<u>2591</u>	mm
Track of Framework Carriage (Front & Rear)	=	<u>1881</u>	mm
C.G. Location Rearward of Front Axle	=	<u>1111</u>	mm

MDB Weight:

Left Front	=	<u>392.6</u>	kg	Left Rear	=	<u>287.8</u>	kg
Right Front	=	<u>384.6</u>	kg	Right Rear	=	<u>296.0</u>	kg
Total Front	=	<u>777.2</u>	kg	Total Rear	=	<u>583.8</u>	kg
Total MDB Weight	=	<u>1361.0</u>	kg				
Impact Angle (MDB C/L to Target Vehicle C/L) = <u>90</u> degrees							
Impact Speed = <u>61.7</u> km/h							

Maximum Static Crush of Honeycomb Impact Face:

1. Row A at Center of Bumper Level	=	<u>229</u>	millimeters
2. Row B at Top of Bumper Level	=	<u>148</u>	millimeters
3. Row C at Mid Level	=	<u>114</u>	millimeters
4. Row D at Top of Stack Level	=	<u>141</u>	millimeters

Instrumentation:

Number of MDB Data Channels = 7

Data Sheet 4

Post-Test Observations

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Visible Dummy Contact Points:

	<u>Left Front SID HIII</u>	<u>Left Rear SID HIII</u>
Head:	<u>Side curtain airbag</u>	<u>Side curtain airbag and</u> <u>side header</u>
Upper Torso:	<u>Torso airbag</u>	<u>Door panel</u>
Lower Torso:	<u>Door panel</u>	<u>Door panel</u>
Left Knee:	<u>Door panel</u>	<u>Door panel</u>
Right Knee:	<u>None</u>	<u>None</u>

Door Opening:

	<u>Left Side</u>	<u>Right Side</u>
Front:	<u>Jammed and latched</u>	<u>Easy</u>
Rear:	<u>Jammed and latched</u>	<u>Easy</u>

MDB Distance From Target Impact Point:

Vertical: 5 mm up from target

Horizontal: 9 mm right from target

Arm Rest Locations:

Front: 218 mm below the bottom of the window

Rear: 239 mm below the bottom of the window

Seat Movement:

Front: None

Rear: None

Glazing Damage:

Windshield: None

Window: None

Pillar Separation: None

Sill Separation: None

Other Notable Impact Effects:

The non-struck side curtain airbag fired.

Section 4

Occupant and Vehicle Information

Data Sheet 5

SID HIII Instrumentation Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Test Number: 070103

Driver Dummy Serial Number: 059

Location	Positive Direction Max. Time (g) (ms)		Negative Direction Max. Time (g) (ms)		
Head Acceleration (g)					
	Longitudinal X	11.3	163.6	25.8	69.0
	Lateral Y	25.0	69.4	5.1	167.3
	Vertical Z	10.5	14.1	3.2	16.6
	Resultant	35.3	69.4		
	HIC 36	122			
Head Redundant Acceleration (g)					
	Longitudinal X	11.2	164.2	25.9	66.8
	Lateral Y	24.1	66.2	5.0	166.8
	Vertical Z	10.4	54.0	3.3	16.6
	Resultant	35.4	66.8		
Neck Force					
	X-Axis Shear	148.5	157.8	528.9	65.7
	Y-Axis Shear	356.1	61.8	99.0	155.6
	Z-Axis Shear	513.7	57.9	114.5	85.5
Neck Moment					
	About X-Axis	4.8	199.3	25.3	61.4
	About Y-Axis	16.7	158.2	27.5	62.4
	About Z-Axis	24.6	79.7	7.9	156.5
	Occipital Condyle	19.1			
Left Upper Rib Acceleration					
	Lateral (P)	28.2	46.3	2.7	88.1
	Lateral (R)	28.5	46.9	2.8	88.2
Left Lower Rib Acceleration					
	Lateral (P)	30.2	47.5	4.9	88.7
	Lateral (R)	30.9	47.5	4.9	88.7

Data Sheet 5 (Continued)

SID HIII Instrumentation Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Test Number: 070103

Driver Dummy Serial Number: 059

Location	Positive Direction		Negative Direction	
	Max. (g)	Time (ms)	Max. (g)	Time (ms)
Lower Spine Acceleration				
Lateral (P)	29.4	33.8	4.9	91.3
Lateral (R)	29.5	33.8	4.9	91.2
Pelvis Acceleration				
Lateral (P)	51.0	31.8	6.9	70.6
TTI	29.8			

Positive Direction

Longitudinal: Forward

Lateral: Rightward

Vertical: Downward

Negative Direction

Longitudinal: Rearward

Lateral: Leftward

Vertical: Upward

Data Sheet 5 (Continued)

SID Instrumentation Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Test Number: 070103

Left Rear Dummy Serial Number: 055

Location	Positive Direction Max. Time (g) (ms)		Negative Direction Max. Time (g) (ms)	
Head Acceleration (g)				
	Longitudinal X	6.3	201.9	12.4 76.5
	Lateral Y	49.9	67.4	11.7 103.9
	Vertical Z	8.0	58.3	26.9 70.4
	Resultant	55.1	68.4	
	HIC 36	236		
Head Redundant Acceleration (g)				
	Longitudinal X	6.3	200.9	12.5 76.8
	Lateral Y	49.3	67.0	11.7 104.7
	Vertical Z	8.0	58.5	27.0 70.1
	Resultant	54.7	68.8	
Neck Force				
	X-Axis Shear	933.1	79.8	61.1 111.1
	Y-Axis Shear	114.0	165.8	1597.9 83.5
	Z-Axis Shear	163.5	198.7	1508.1 74.8
Neck Moment				
	About X-Axis	23.3	84.9	46.6 66.5
	About Y-Axis	28.1	83.7	7.9 224.1
	About Z-Axis	4.1	84.0	7.3 111.4
	Occipital Condyle	59.7		
Left Upper Rib Acceleration				
	Lateral (P)	31.1	51.2	4.9 173.1
	Lateral (R)	31.2	50.6	4.8 173.1
Left Lower Rib Acceleration				
	Lateral (P)	38.4	48.8	5.0 184.4
	Lateral (R)	39.1	48.8	5.0 184.4

Data Sheet 5 (Continued)

SID Instrumentation Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Test Number: 070103

Left Rear Dummy Serial Number: 055

Location	Positive Direction		Negative Direction	
	Max. (g)	Time (ms)	Max. (g)	Time (ms)
Lower Spine Acceleration				
Lateral (P)	55.0	52.5	5.6	73.8
Lateral (R)	54.3	52.5	5.7	73.8
Pelvis Acceleration				
Lateral (P)	64.8	46.2	6.6	70.0
TTI	46.7			

Positive Direction

Longitudinal: Forward

Lateral: Rightward

Vertical: Downward

Negative Direction

Longitudinal: Rearward

Lateral: Leftward

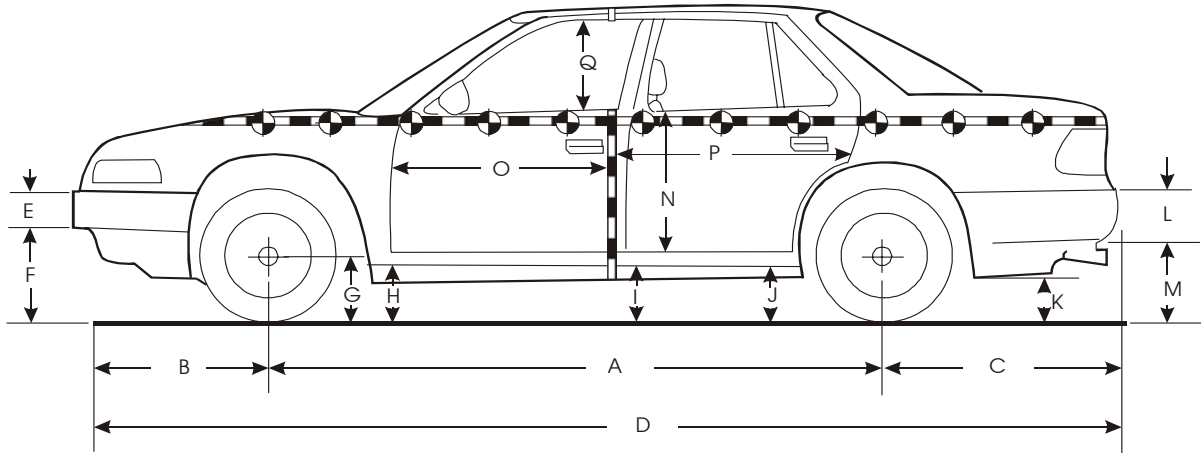
Vertical: Upward

Data Sheet 6

Vehicle Pre-Test And Post-Test Measurements

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



Left Side View

Note: All dimensions are in millimeters with tolerance of ± 3 mm

	Pre-Test (as delivered)	Pre-Test (as tested)	Post-Test (as tested)	Change
A	2830	2830	2823	7
B	940	940	940	0
C	940	940	953	-13
D	4710	4710	4710	0
E	210	210	210	0
F	492	489	509	-20
G	360	355	334	21
H	320	310	257	53
I	310	298	340	-42
J1	258	230	265	-35
J2	315	298	340	-42
K	440	400	427	-27
L	170	170	170	0
M	545	505	535	-30
N	860	860	800	60
O	845	845	805	40
P	1350	1350	1305	45
Q	450	450	468	-18
R	4435	4435	4433	2
S	4435	4435	4433	2
T	1380	1380	1275	105

D = Length at centerline

E and L = Bumper Thickness

R = Right Side Length

S = Left Side Length

T = Width at B-pillar

J1 = To Pinch Weld

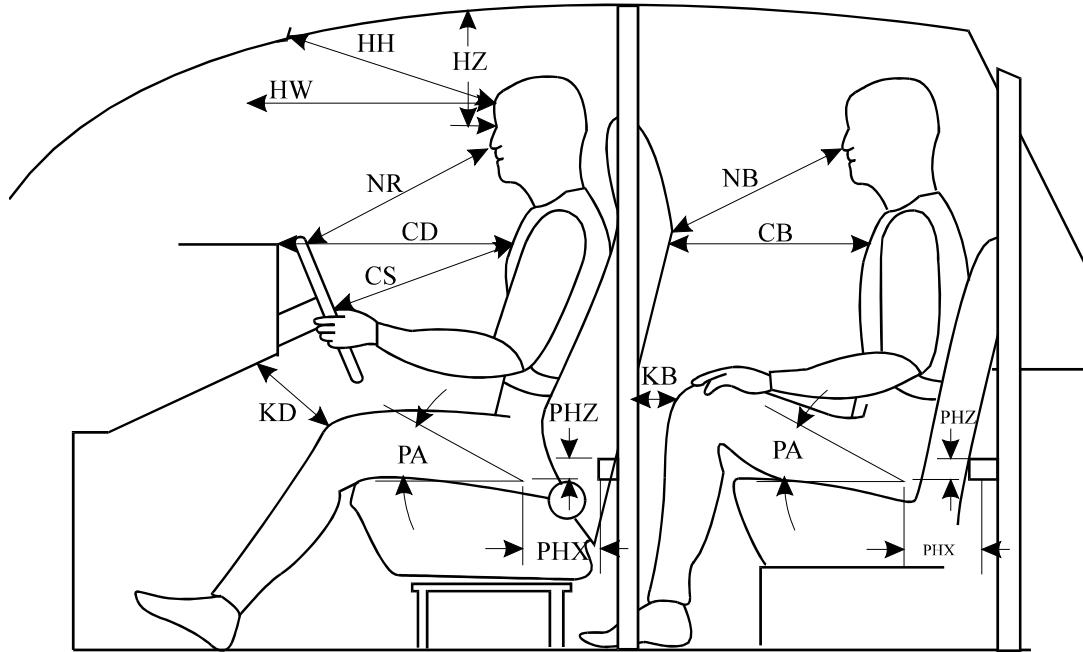
J2 = To Sill

Data Sheet 7

SID HIII Longitudinal Clearance Dimensions

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



Left Side View

Note: All measurements are in millimeters with tolerance of ± 3 mm

Measurement	Driver SID HIII # 059	Left Rear Pass. SID HIII # 055
HH	421	N/A
HW	732	N/A
HZ	206	210
NR/NB	493	698
CD/CB	541	665
CS	322	N/A
KDL(KDA°)/KBL(KBA°)	88/(25°)	300/(27.3°)
KDR(KDA°)/KBR(KBA°)	76/(24.8°)	313/(32.1°)
PA°	24.4°	24.8°
PHX	259	246
PHZ	160	190

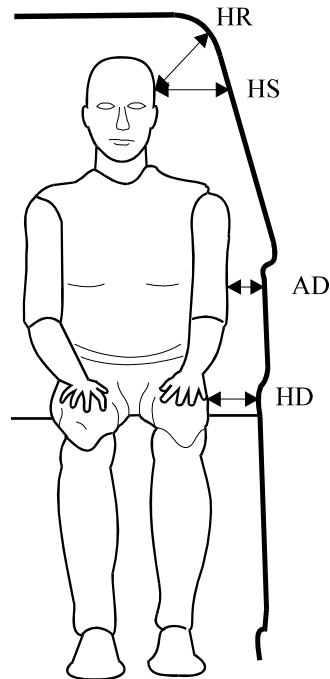
Note: 2-door vehicle shown. Rear dummy PHX and PHZ measurements for 4-door vehicle would use the C-post striker as a reference point.

Data Sheet 8

SID HIII Lateral Clearance Dimensions

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



Note: All measurements are in millimeters with tolerance of ± 3 mm

Measurement	Driver SID HIII # 059	Left Rear Pass. SID HIII # 055
HR	193	205
HS	285	191
AD*	Lower: 126 Upper: 152	Lower: 107 Upper: 120
HD	157	161

* Lower measurement is taken laterally at center of the lower rib accelerometer height from the SID HIII arm segment to the closest part of the vehicle side.

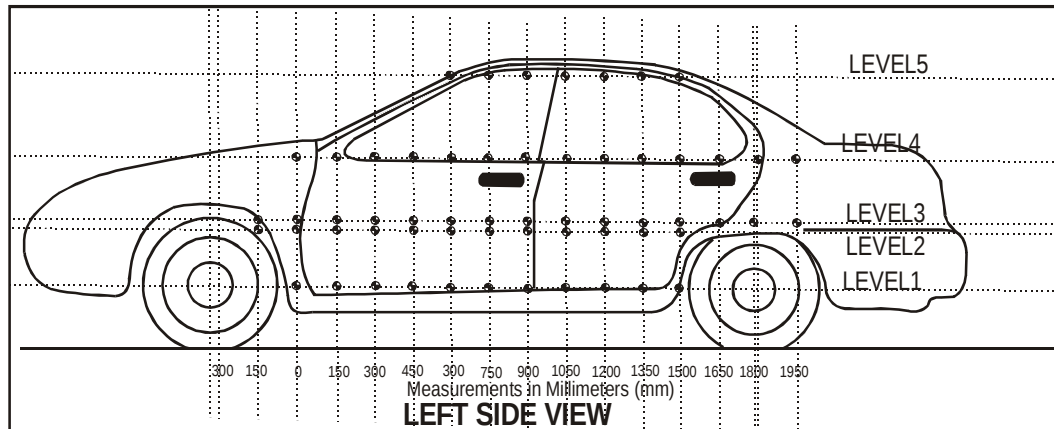
Upper measurement is taken laterally at center of the upper rib accelerometer height from the SID HIII arm segment to the closest part of the vehicle side.

Data Sheet 9

Vehicle Side Measurements

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



Level 5 - Window Top

Level 4 - Window Sill

Level 3 - Mid-Door

Level 2 - Occupant H-Point

Level 1 - Axle Centerline Height or Sill Top Height

Measurements Are Taken When The Vehicle Is In The “As Tested” Configuration.

Measurements along the vertical 750 mm line shown above:

Level 5 @ Window Top	=	<u>1640</u>	mm
Level 4 @ Window Sill	=	<u>1090</u>	mm
Level 3 @ Mid Door	=	<u>755</u>	mm
Level 2 @ Occupant H-Point	=	<u>740</u>	mm
Level 1 @ Axle Centerline Height (or Sill Top Height)	=	<u>325</u>	mm

Data Sheet 10

Vehicle Exterior Crush Profiles - All Levels

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Location	Height		(mm) From Impact Point													
			-1200	-1050	-900	-750	-600	-450	-300	-150	0	150	300	450	600	750
Level 1 Side Sill	325	Pre	---	---	---	---	---	---	---	---	803	803	803	803	803	803
		Post	---	---	---	---	---	---	---	---	795	745	713	706	708	711
		Crush	---	---	---	---	---	---	---	---	8	58	90	97	95	92
Level 2 H-Point	740	Pre	---	---	928	---	---	---	---	964	950	936	937	938	938	939
		Post	---	---	933	---	---	---	---	946	905	782	717	697	686	682
		Crush	---	---	-5	---	---	---	---	18	45	154	220	241	252	257
Level 3 Mid-Door	755	Pre	---	---	923	---	---	---	---	964	949	937	938	939	939	940
		Post	---	---	928	---	---	---	---	946	906	785	717	698	689	686
		Crush	---	---	-5	---	---	---	---	18	43	152	221	241	250	254
Level 4 Window Sill	1090	Pre	---	---	800	828	848	865	877	886	892	899	904	909	913	917
		Post	---	---	817	840	854	864	868	872	875	866	855	850	845	839
		Crush	---	---	-17	-12	-6	1	9	14	17	33	49	59	68	78
Level 5 Window Top	1640	Pre	---	---	---	---	---	---	---	---	---	---	---	---	---	631
		Post	---	---	---	---	---	---	---	---	---	---	---	---	---	634
		Crush	---	---	---	---	---	---	---	---	---	---	---	---	---	-3

Data Sheet 10 (Continued)

Vehicle Exterior Crush Profiles - All Levels

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Location	Height		(mm) From Impact Point												
			900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700
Level 1 Side Sill	325	Pre	803	803	803	803	803	803	802	---	---	---	---	---	---
		Post	713	710	703	706	730	758	792	---	---	---	---	---	---
		Crush	90	93	100	97	73	45	10	---	---	---	---	---	---
Level 2 H-Point	740	Pre	938	939	937	935	932	929	930	946	---	---	---	---	950
		Post	682	709	727	685	675	680	693	819	---	---	---	---	962
		Crush	256	230	210	250	257	249	237	127	---	---	---	---	-12
Level 3 Mid-Door	755	Pre	940	940	938	936	934	931	930	945	---	---	---	---	949
		Post	686	713	732	689	677	682	692	812	---	---	---	---	961
		Crush	254	227	206	247	257	249	238	133	---	---	---	---	-12
Level 4 Window Sill	1090	Pre	927	922	925	926	925	923	920	901	912	905	897	887	877
		Post	841	822	801	808	828	847	865	862	904	876	881	888	891
		Crush	86	100	124	118	97	76	55	39	8	29	16	-1	-14
Level 5 Window Top	1640	Pre	632	635	636	637	637	637	635	632	629	623	609	592	---
		Post	635	637	638	639	644	643	643	638	641	636	628	611	---
		Crush	-3	-2	-2	-2	-7	-6	-8	-6	-12	-13	-19	-19	---

All measurements were recorded using TRC Inc.'s FARO Arm with a tolerance of ± 0.1 mm.

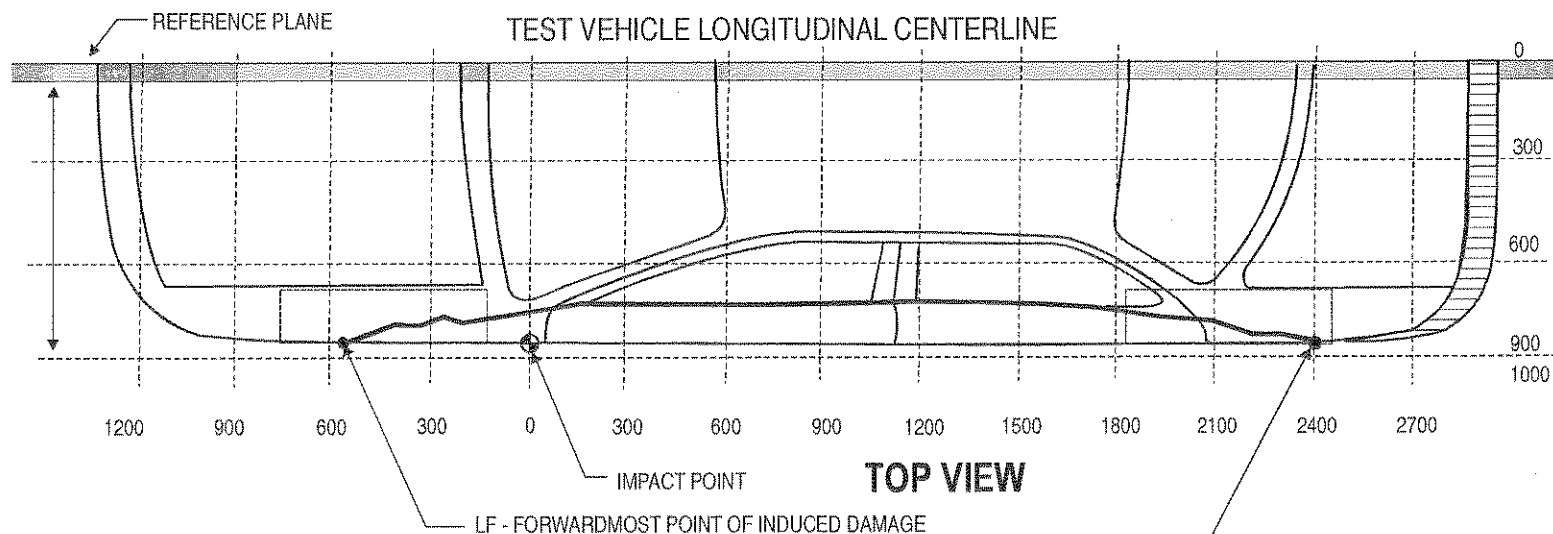
Data Sheet 11

Vehicle Damage Profile Distances

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

NOTE: All measurements are in millimeters (mm) and should be accurate to plus or minus 3mm.



MEASUREMENT CONVENTIONS:

Forward of the impact point (towards front of vehicle) is considered negative (-)

Rearward of the impact point (towards rear end of vehicle) is considered positive (+)

DPD Measurements	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
6: LF = -150 mm (Level 2, 3)	964/964	946/946	18/18
5: 300 mm (Level 3)	938	717	221
4: 600 mm (Level 2)	938	686	252
3: 1200 mm (Level 3)	937	727	210
2: 1500 mm (Level 2, 3)	932/934	675/677	257/257
1: LR = 1950 mm (Level 3)	945	812	133

Full length of induced damage was 2100 mm.

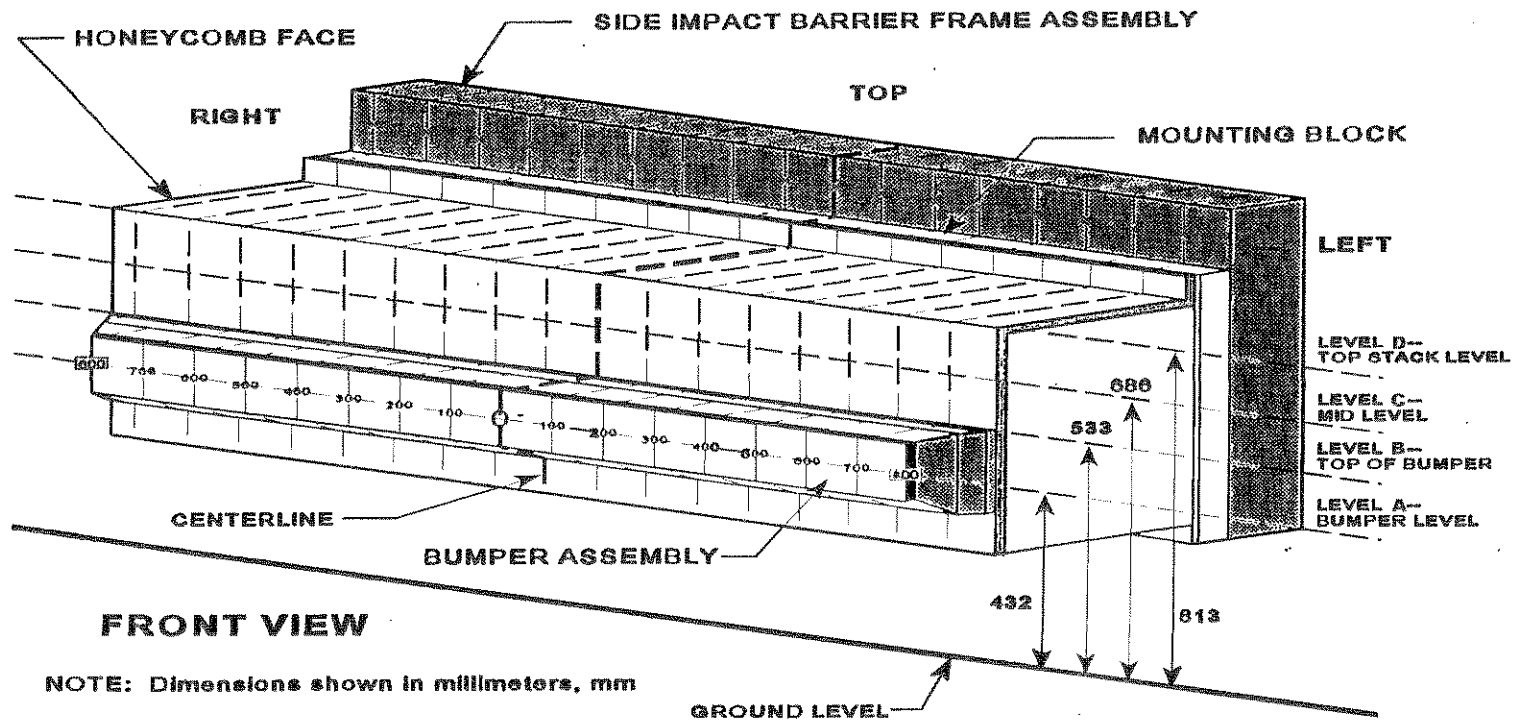
Data Sheet 12

Exterior Static Crush For Impactor Face

(Grid as looking at MDB from front)

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

		Distance Right of Center (mm)									Distance Left of Center (mm)							
Location	Height At CL	800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800
Top Stack Level - Level D	803	-86	-69	-58	-50	-53	-74	-109	-95	-75	-71	-63	-68	-78	-86	-90	-106	-141
Mid Level Level C	676	-75	-51	-45	-38	-34	-42	-64	-66	-42	-30	-28	-29	-35	-44	-58	-75	-114
Top Bumper Level-Level B ¹	549	-148	-139	-126	-116	-104	-98	-92	-89	-85	-93	-90	-88	-86	-85	-88	-91	-95
Mid Bumper Level - Level A	422	-229	-208	-188	-171	-156	-149	-147	-146	-145	-144	-142	-142	-142	-142	-144	-151	-157

All measurements were recorded using TRC Inc.'s FARO Arm with a tolerance of ± 0.1 mm.

¹ Top Bumper measurements are collected at 560 mm to eliminate post-test measurement point obstruction by the bumper element.

Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

Deformable Barrier Face Profile

NHTSA No.: C70202

Pre-Test

Index	Xmm	Ymm	Zmm
1	-385.3	798.8	-49.9
2	-384.7	699.4	-50.1
3	-384.9	599.5	-49.8
4	-385.0	500.2	-49.7
5	-384.5	399.0	-50.0
6	-384.5	299.2	-50.1
7	-384.5	199.2	-49.8
8	-384.6	99.5	-49.7
9	-384.3	-1.2	-49.7
10	-384.3	-101.1	-48.4
11	-384.3	-200.6	-48.1
12	-384.0	-300.8	-49.0
13	-383.8	-401.0	-48.9
14	-383.7	-500.7	-48.8
15	-383.6	-600.6	-49.0
16	-383.5	-700.7	-48.9
17	-383.4	-801.2	-48.7
18	-385.1	800.5	-178.4
19	-384.8	700.1	-178.1
20	-384.9	600.0	-178.6
21	-384.9	499.8	-178.3
22	-384.9	399.6	-178.5
23	-384.8	299.4	-178.2

Post-Test

Index	Xmm	Ymm	Zmm
1	-299.8	736.5	-104.2
2	-315.9	638.3	-105.1
3	-326.9	539.3	-107.6
4	-334.6	440.4	-110.2
5	-331.5	343.1	-114.4
6	-310.1	246.7	-118.0
7	-275.1	150.6	-125.0
8	-289.3	54.2	-117.2
9	-309.7	-44.6	-108.4
10	-313.1	-144.4	-107.3
11	-321.4	-240.8	-96.6
12	-316.0	-340.9	-93.1
13	-305.5	-440.3	-90.5
14	-297.6	-538.3	-84.1
15	-293.1	-636.1	-70.8
16	-277.6	-732.6	-62.5
17	-242.0	-826.5	-60.4
18	-309.7	740.7	-226.4
19	-334.2	644.8	-230.7
20	-340.2	544.6	-233.9
21	-347.4	444.3	-236.7
22	-350.6	343.6	-239.1
23	-343.0	242.6	-240.6

Difference

Index	Xmm	Ymm	Zmm
1	-85.5	62.3	54.3
2	-68.8	61.1	55.0
3	-58.0	60.2	57.8
4	-50.4	59.8	60.5
5	-53.0	55.9	64.4
6	-74.4	52.5	67.9
7	-109.4	48.6	75.2
8	-95.3	45.3	67.5
9	-74.6	43.4	58.7
10	-71.2	43.3	58.9
11	-62.9	40.2	48.5
12	-68.0	40.1	44.1
13	-78.3	39.3	41.6
14	-86.1	37.6	35.3
15	-90.5	35.5	21.8
16	-105.9	31.9	13.6
17	-141.4	25.3	11.7
18	-75.4	59.8	48.0
19	-50.6	55.3	52.6
20	-44.7	55.4	55.3
21	-37.5	55.5	58.4
22	-34.3	56.0	60.6
23	-41.8	56.8	62.4

Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

Deformable Barrier Face Profile Cont'd.

NHTSA No.: C70202

Pre-Test

Index	Xmm	Ymm	Zmm
24	-384.8	198.9	-178.3
25	-384.8	98.7	-178.3
26	-384.8	-1.3	-177.9
27	-384.7	-101.4	-177.7
28	-384.6	-201.4	-177.4
29	-384.5	-300.9	-177.5
30	-384.3	-401.5	-177.4
31	-383.9	-501.4	-177.0
32	-383.7	-601.3	-176.6
33	-383.4	-700.9	-176.5
34	-383.4	-800.7	-177.0
35	-384.2	799.0	-307.6
36	-384.5	699.6	-307.4
37	-384.4	599.6	-306.8
38	-384.6	499.0	-306.4
39	-384.5	399.4	-306.1
40	-384.4	299.1	-305.8
41	-384.5	199.7	-306.1
42	-384.5	99.5	-306.0
43	-384.2	-0.7	-306.2
44	-384.3	-100.1	-305.8
45	-384.1	-200.0	-305.1
46	-384.0	-300.0	-305.3

Post-Test

Index	Xmm	Ymm	Zmm
24	-321.3	145.1	-243.9
25	-319.3	47.4	-241.8
26	-342.8	-49.6	-231.7
27	-354.4	-149.4	-224.3
28	-356.8	-250.8	-218.4
29	-355.5	-350.5	-211.1
30	-349.5	-451.9	-206.1
31	-340.0	-552.0	-198.8
32	-325.6	-651.1	-191.4
33	-308.4	-748.6	-184.5
34	-269.4	-838.1	-183.8
35	-235.8	733.5	-313.1
36	-245.5	639.1	-312.2
37	-258.4	541.4	-315.7
38	-268.8	441.2	-324.0
39	-280.9	343.3	-328.7
40	-286.1	245.7	-333.6
41	-292.0	137.4	-335.4
42	-295.4	46.6	-333.5
43	-299.0	-48.8	-324.5
44	-291.5	-157.4	-323.3
45	-294.4	-257.2	-320.9
46	-296.5	-356.1	-316.6

Difference

Index	Xmm	Ymm	Zmm
24	-63.5	53.8	65.6
25	-65.5	51.3	63.5
26	-42.0	48.3	53.8
27	-30.3	48.0	46.6
28	-27.8	49.4	41.0
29	-29.0	49.6	33.6
30	-34.8	50.4	28.7
31	-43.9	50.6	21.8
32	-58.1	49.8	14.8
33	-75.0	47.7	8.0
34	-114.0	37.4	6.8
35	-148.4	65.5	5.5
36	-139.0	60.5	4.8
37	-126.0	58.2	8.9
38	-115.8	57.8	17.6
39	-103.6	56.1	22.6
40	-98.3	53.4	27.8
41	-92.5	62.3	29.3
42	-89.1	52.9	27.5
43	-85.2	48.1	18.3
44	-92.8	57.3	17.5
45	-89.7	57.2	15.8
46	-87.5	56.1	11.3

Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

Deformable Barrier Face Profile Cont'd.

NHTSA No.: C70202

Pre-Test

Index	Xmm	Ymm	Zmm
47	-383.8	-399.5	-305.3
48	-383.5	-500.3	-305.6
49	-383.3	-599.9	-304.8
50	-382.9	-700.3	-304.2
51	-382.5	-799.8	-303.7
52	-471.0	801.3	-431.4
53	-486.1	704.3	-432.1
54	-486.2	605.0	-432.0
55	-486.2	504.8	-431.8
56	-486.2	404.8	-431.3
57	-486.1	305.0	-431.4
58	-486.1	204.9	-431.3
59	-486.1	105.1	-431.0
60	-486.1	4.7	-431.0
61	-486.0	-95.4	-430.7
62	-485.8	-195.1	-430.5
63	-485.6	-295.0	-430.7
64	-485.6	-394.8	-430.0
65	-485.3	-494.9	-430.3
66	-485.0	-594.8	-430.1
67	-484.7	-695.1	-429.7
68	-471.9	-791.8	-429.6

Post-Test

Index	Xmm	Ymm	Zmm
47	-298.2	-456.2	-314.0
48	-298.4	-556.7	-310.8
49	-295.5	-656.7	-304.7
50	-292.2	-757.3	-300.8
51	-287.7	-856.2	-297.2
52	-241.7	733.8	-431.8
53	-278.2	642.2	-440.7
54	-297.7	544.7	-442.8
55	-315.6	446.1	-444.6
56	-330.5	347.1	-445.2
57	-336.7	247.1	-444.3
58	-339.1	146.6	-443.1
59	-340.4	47.1	-442.4
60	-341.2	-53.5	-441.8
61	-342.5	-153.5	-441.2
62	-343.4	-253.4	-440.6
63	-343.8	-353.4	-440.3
64	-344.0	-453.4	-439.0
65	-343.2	-553.4	-438.7
66	-341.2	-653.3	-437.4
67	-333.7	-753.5	-434.4
68	-314.8	-849.5	-427.1

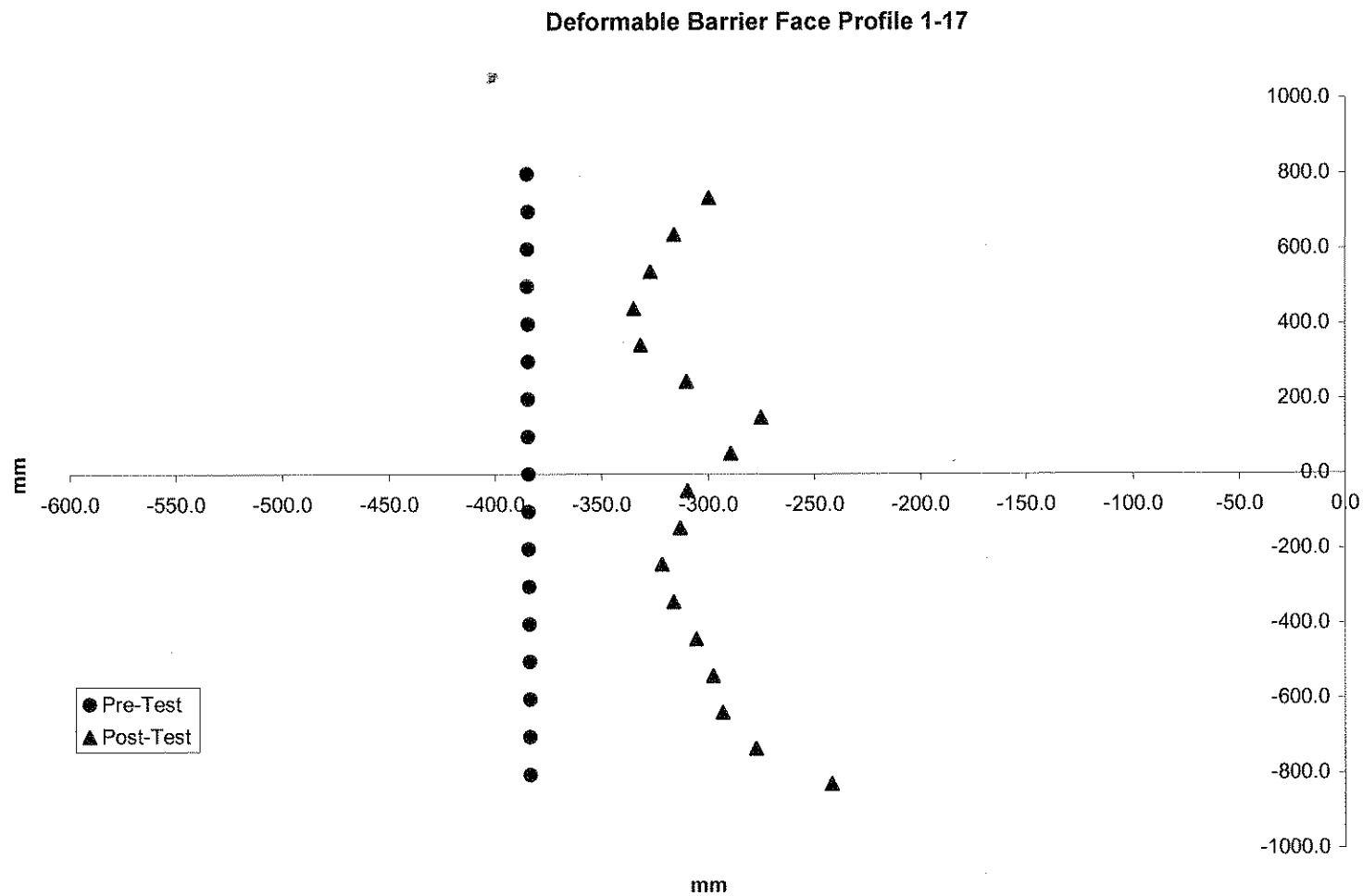
Difference

Index	Xmm	Ymm	Zmm
47	-85.6	56.7	8.7
48	-85.1	56.4	5.2
49	-87.8	56.8	-0.1
50	-90.7	57.0	-3.4
51	-94.8	56.4	-6.5
52	-229.3	67.5	0.4
53	-207.9	62.1	8.6
54	-188.5	60.3	10.8
55	-170.6	58.7	12.8
56	-155.7	57.7	13.9
57	-149.4	57.9	12.9
58	-147.0	58.3	11.8
59	-145.7	58.0	11.4
60	-144.9	58.2	10.8
61	-143.5	58.1	10.5
62	-142.4	58.3	10.1
63	-141.8	58.4	9.6
64	-141.6	58.6	9.0
65	-142.1	58.5	8.4
66	-143.8	58.5	7.3
67	-151.0	58.4	4.7
68	-157.1	57.7	-2.5

Data Sheet 12 (Continued)
Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

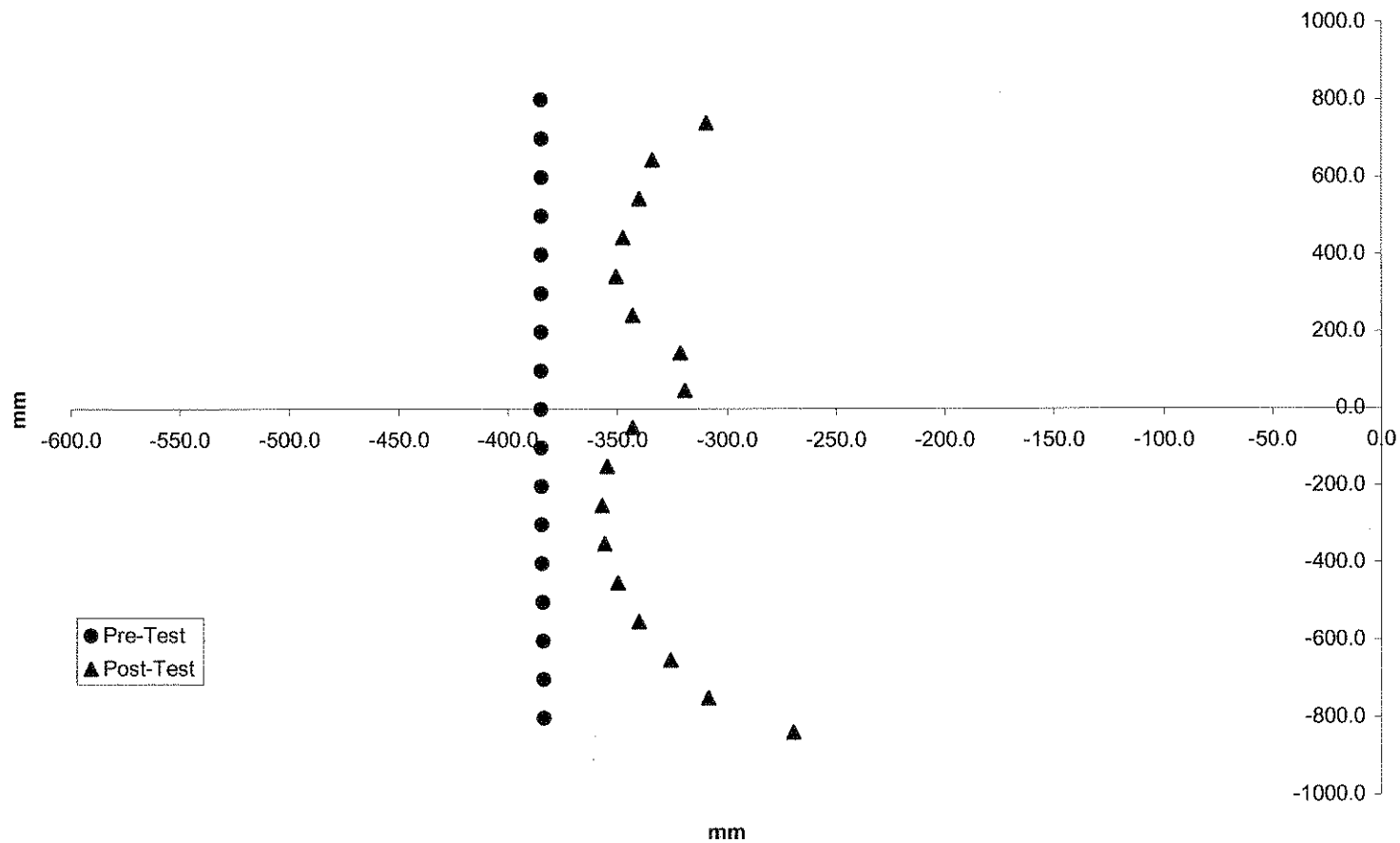


Data Sheet 12 (Continued)
Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Deformable Barrier Face Profile 18-34



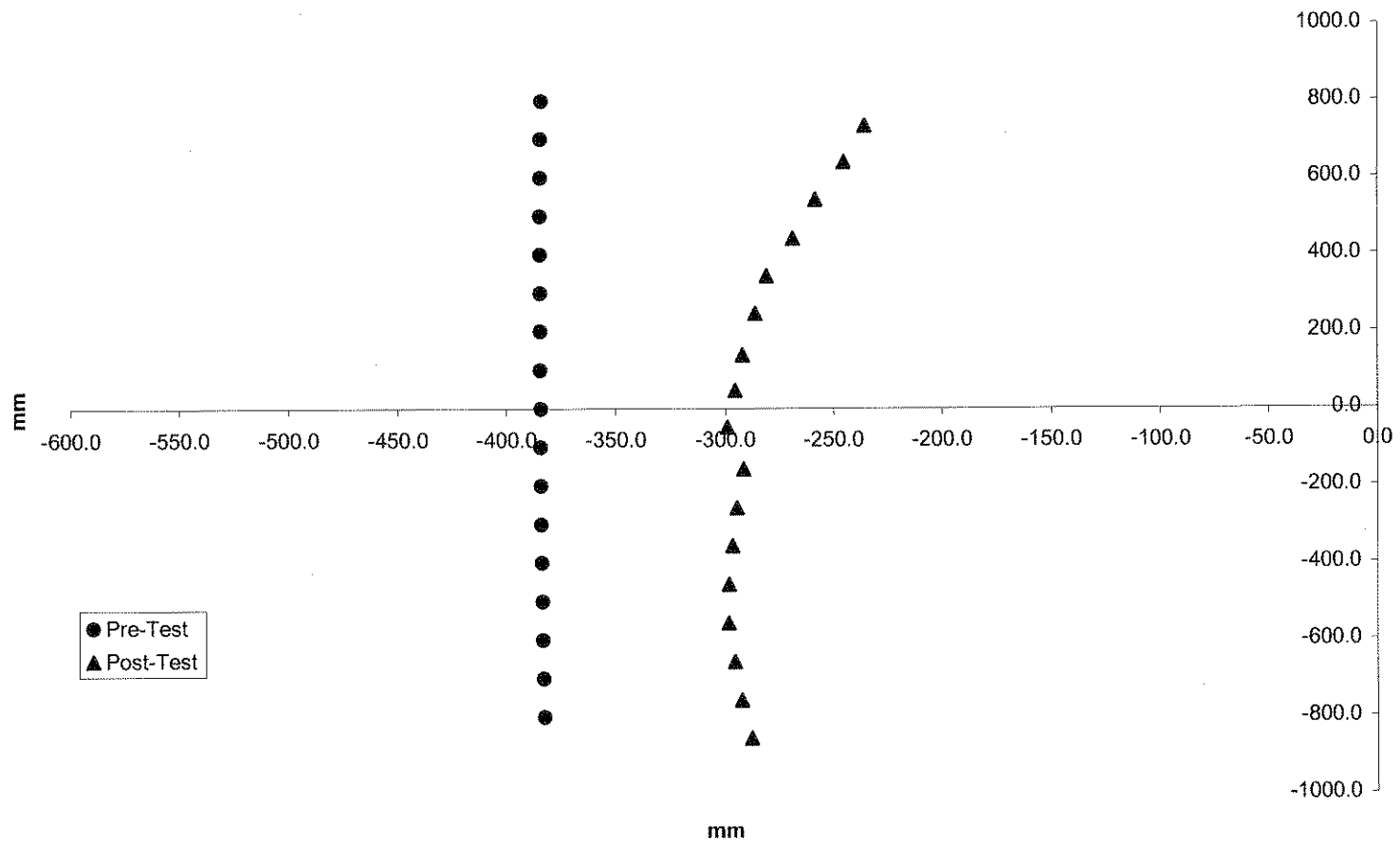
Data Sheet 12 (Continued)

Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Deformable Barrier Face Profile 35-51

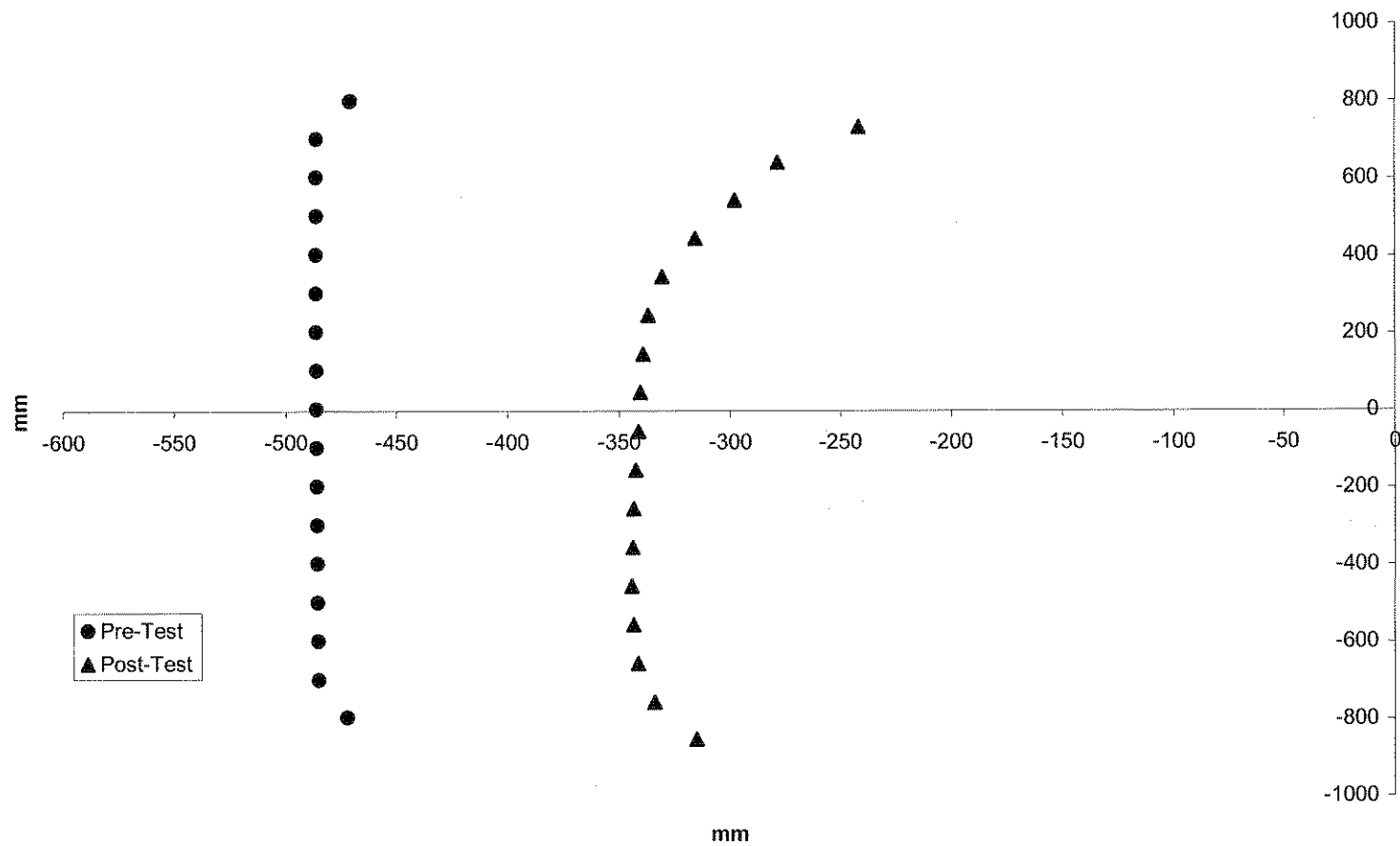


Data Sheet 12 (Continued)
Exterior Static Crush For Impactor Face

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Deformable Barrier Face Profile 52-68

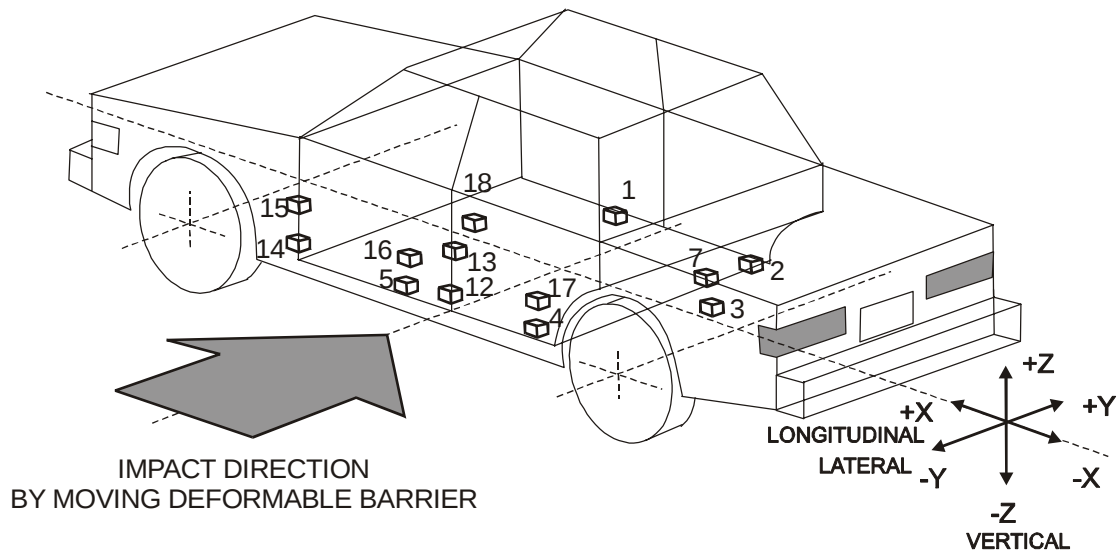


Data Sheet 13

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



1-Right Front Side Sill
2-Right Side Sill at Rear Seat
3-Rear Floorpan above Axle
4-Left Side Sill at Rear Seat
5-Left Front Side Sill
7-Right Rear Occupant Compartment
12-Left Side Lower B-pillar

13-Left Side Middle B-pillar
14-Left Side Lower A-pillar
15-Left Side Middle A-pillar
16-Left Side Front Seat Track at H-point
17-Left Rear Seat Track at H-point
18-Vehicle Center of Gravity

Data Sheet 13 (Continued)

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Location	Coordinates (millimeters)			Positive Direction		Negative Direction	
	X	Y	Z	Max. (g)	Time (ms)	Max. (g)	Time (ms)
1 Right Side Sill at Front Seat	3290	713	-405				
Longitudinal				3.2	60.8	4.2	21.4
Lateral				21.2	7.5	4.2	79.3
Vertical				4.9	67.1	8.3	9.5
Resultant				22.3	7.8		
2 Right Side Sill at Rear Seat	1945	700	-425				
Longitudinal				3.6	59.3	3.7	21.4
Lateral				20.4	6.5	2.7	84.2
Vertical				4.1	93.0	6.9	11.6
Resultant				20.6	6.6		
3 Rear Floorpan Above Axle	1380	10	-567				
Longitudinal				1.7	60.7	6.1	26.1
Lateral				21.0	45.8	1.8	108.6
Vertical				6.6	9.8	5.1	60.5
Resultant				21.4	45.6		
4 Left Side Sill at Rear Seat	1882	703	-460				
Longitudinal							
Lateral ¹				----	----	----	----
Vertical							
Resultant							
5 Left Side Sill at Front Seat	3272	692	-405				
Longitudinal							
Lateral ¹				116.5	7.4	29.7	18.6
Vertical							
Resultant							

Data Sheet 13 (Continued)

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Location	Coordinates (millimeters)			Positive Direction		Negative Direction	
	X	Y	Z	Max. (g)	Time (ms)	Max. (g)	Time (ms)
7 Right Rear Occupant Compartment	1980	625	-443				
Longitudinal							
Lateral ¹				20.7	6.5	2.7	83.8
Vertical							
Resultant							
12 Left Lower B-Pillar	2470	-853	-672				
Longitudinal							
Lateral				144.8	5.0	79.8	34.6
Vertical							
Resultant							
13 Left Middle B-Pillar	2440	-848	-1080				
Longitudinal							
Lateral				81.0	5.9	24.7	30.6
Vertical							
Resultant							
14 Left Lower A-Pillar	3532	-847	-640				
Longitudinal							
Lateral ¹				----	----	----	----
Vertical							
Resultant							
15 Left Middle A-Pillar	3560	-840	-1007				
Longitudinal							
Lateral				36.3	7.8	9.9	30.8
Vertical							
Resultant							

Data Sheet 13 (Continued)

Test Vehicle Accelerometer Locations and Data Summary

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

Location	Coordinates (millimeters)			Positive Direction		Negative Direction	
	X	Y	Z	Max. (g)	Time (ms)	Max. (g)	Time (ms)
16 Left Front Seat Track	2665	-562	-462				
Longitudinal							
Lateral ¹				99.8	18.6	60.6	23.4
Vertical							
Resultant							
17 Left Rear Seat Track	1697	-665	-455				
Longitudinal							
Lateral ¹				39.1	15.4	47.4	31.5
Vertical							
Resultant							
18 Vehicle CG	2900	0	-790				
Longitudinal				10.8	57.2	33.0	43.7
Lateral				75.1	29.0	35.3	68.9
Vertical				23.2	43.6	40.6	49.9
Resultant				75.5	29.0		

Reference: X: + Forward from rear bumper
 Y: + Rightward from vehicle centerline
 Z: + Downward from ground level

For acceleration data sign convention see Report Sign Convention in Appendix D.

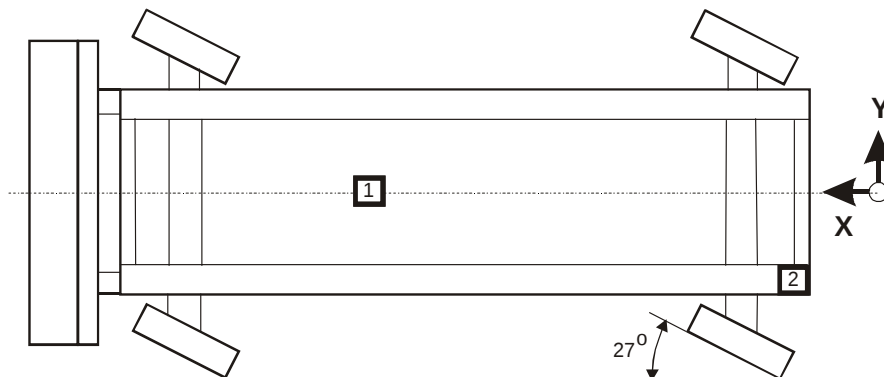
¹ See Data Acquisition Explanations

Data Sheet 14

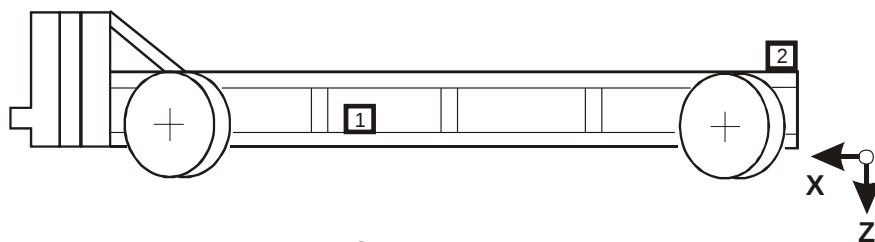
MDB Accelerometer Locations and Data Summary

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



TOP VIEW



SIDE VIEW

Accel. No.	Location	Coordinates (millimeters)			Positive Direction		Negative Direction	
		X*	Y*	Z*	Max. (g)	Time (ms)	Max. (g)	Time (ms)
1	MDB Center of Gravity	1855	0	-520				
	Longitudinal X				2.2	111.7	22.6	42.5
	Lateral Y				4.0	66.0	8.8	37.8
	Vertical Z				6.0	61.9	5.2	33.8
	Resultant R				23.8	41.8		
2	Rear Frame Member	412	-677	-625				
	Longitudinal X				2.0	86.8	24.8	38.5
	Lateral Y				4.3	36.4	3.3	148.7

*Reference: X = Rear Bumper (+ Forward)

Y = Vehicle Centerline (+ To Right)

Z = Ground Level (+ Down)

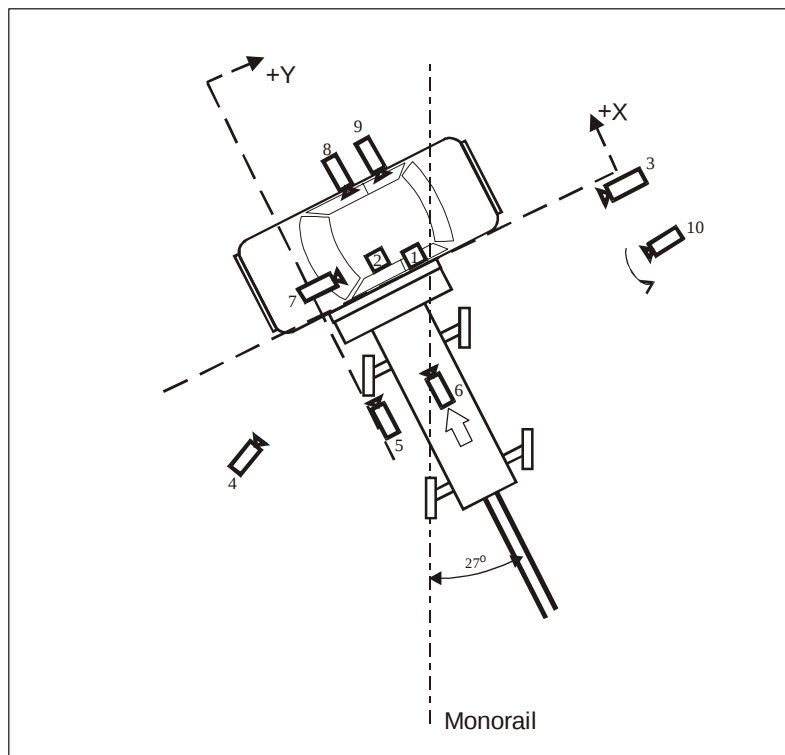
All measurements accurate to within ± 3 mm.

Data Sheet 15

High-Speed Camera Locations and Data Summary

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202



Impact
Area

Camera Number	Location	Location, mm			Angle (deg.)	Lens (mm)	Speed (fps)
		X	Y	Z			
1	Overhead wide	250	2150	-5750	90.0	12.5	1000
2	Overhead tight	370	1800	-5750	90.0	25	1000
3	Right side of MDB	0	9350	-980	-3.0	25	1000
4	Left side of MDB	-3150	-3550	-990	-5.0	12.5	1000
5	Onboard MDB left side	-1750	-40	-720	1.0	12.5	1000
6	Onboard MDB center	-2480	830	-1353	4.1	12.5	1000
7	Onboard vehicle front	610	-500	-1180	-6.1	12.5	1000
8	Onboard side front door	1800	610	-1420	-9.6	6.5	1000
9	Onboard side rear door	1800	1600	-1500	-15.6	6.5	1000
10	Documentary/Panning	N/A	N/A	N/A	N/A	Zoom	30

+X: Forward (referenced to MDB) from impact point

+Y: Rightward (referenced to MDB) from impact point

+Z: Downward from ground level

Section 5

Vehicle Fuel System Integrity

Data Sheet 16

FMVSS 301 Fuel System Integrity Data

NHTSA No.: C70202

Test Date: 01/03/07

Vehicle Year/Make/Model/Body Style: 2007 Ford Edge SUV

Test Vehicle Impact Type :

- ☐ Frontal (48.3 km/h)
☐ Oblique (48.3 km/h) with ____° barrier face
first contacting the (driver/passenger) side
☐ Rear Moving Barrier (48.3 km/h)
☐ Lateral Moving Barrier (32.2 km/h)
☒ Side Impact Moving Deformable Barrier (61.7
km/h) contacting the driver side

Fuel Spillage Measurement:

1. From impact until vehicle motion ceases
2. For five-minute period after vehicle motion ceases
3. For next 25 minutes.

Actual	Maximum Allowed
0 g	28 g
0 g	142 g
0 g	28 g/1 minute

Solvent Spillage Details :

None

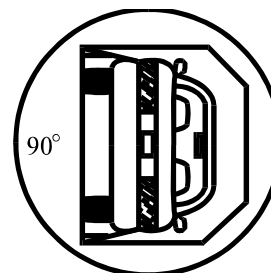
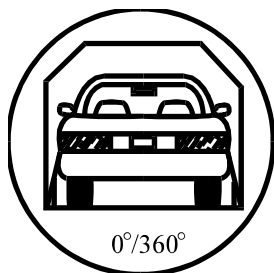
Data Sheet 17

FMVSS 301 Rollover Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

0 - 90 Degrees



1. Determination of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds
(Spec. Range = 1 to 3 minutes)
FMVSS 301 Position Hold Time + 5 minutes 0 seconds
Total 6 minutes 30 seconds
Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

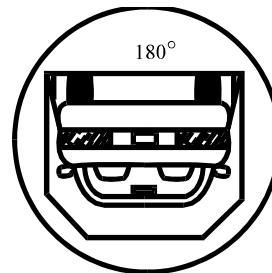
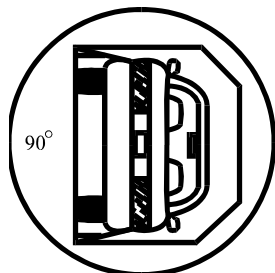
Data Sheet 17 (Continued)

FMVSS 301 Rollover Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

90 - 180 Degrees



1. Determination of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds
(Spec. Range = 1 to 3 minutes)
FMVSS 301 Position Hold Time + 5 minutes 0 seconds
Total 6 minutes 30 seconds
Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

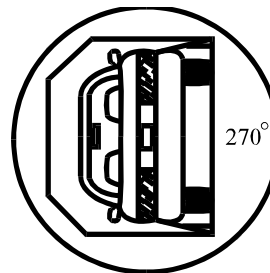
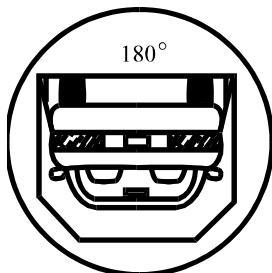
Data Sheet 17 (Continued)

FMVSS 301 Rollover Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

180 - 270 Degrees



1. Determination of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds
(Spec. Range = 1 to 3 minutes)
FMVSS 301 Position Hold Time + 5 minutes 0 seconds
Total 6 minutes 30 seconds
Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

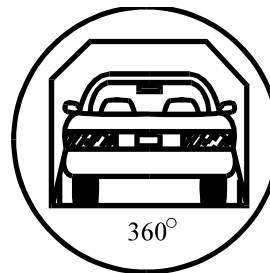
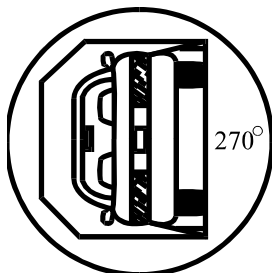
Data Sheet 17 (Continued)

FMVSS 301 Rollover Data

Vehicle: 2007 Ford Edge SUV

NHTSA No.: C70202

270 - 360 Degrees



1. Determination Of Solvent Collection Time Period:

Rollover Fixture 90° Rotation Time 1 minutes 30 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time + 5 minutes 0 seconds

Total 6 minutes 30 seconds

Next whole minute interval 7 minutes

2. FMVSS 301 Requirements:

(1) Time Period

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
--	----------	----------	------------------------

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g
-------	------	------	------

3. Actual Test Vehicle Solvent Spillage:

0 g	0 g	0 g	N/A
-----	-----	-----	-----

Note: Record spillage for whole minute intervals only as determined above.

4. Solvent Spillage Location(s):

None

Appendix A

Photographs

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Figure A-2 Post-Test Front View of Test Vehicle



Figure A-3 Pre-Test Left Front View of Test Vehicle



Figure A-4 Post-Test Left Front View of Test Vehicle



Figure A-5 Pre-Test Impacted Side View of Test Vehicle



Figure A-6 Post-Test Impacted Side View of Test Vehicle



Figure A-7 Pre-Test Left Rear View of Test Vehicle

A-12

070103



Figure A-8 Post-Test Left Rear View of Test Vehicle



Figure A-9 Pre-Test Rear View of Test Vehicle



Figure A-10 Post-Test Rear View of Test Vehicle



Figure A-11 Pre-Test Right Rear View of Test Vehicle



Figure A-12 Post-Test Right Rear View of Test Vehicle

A-17

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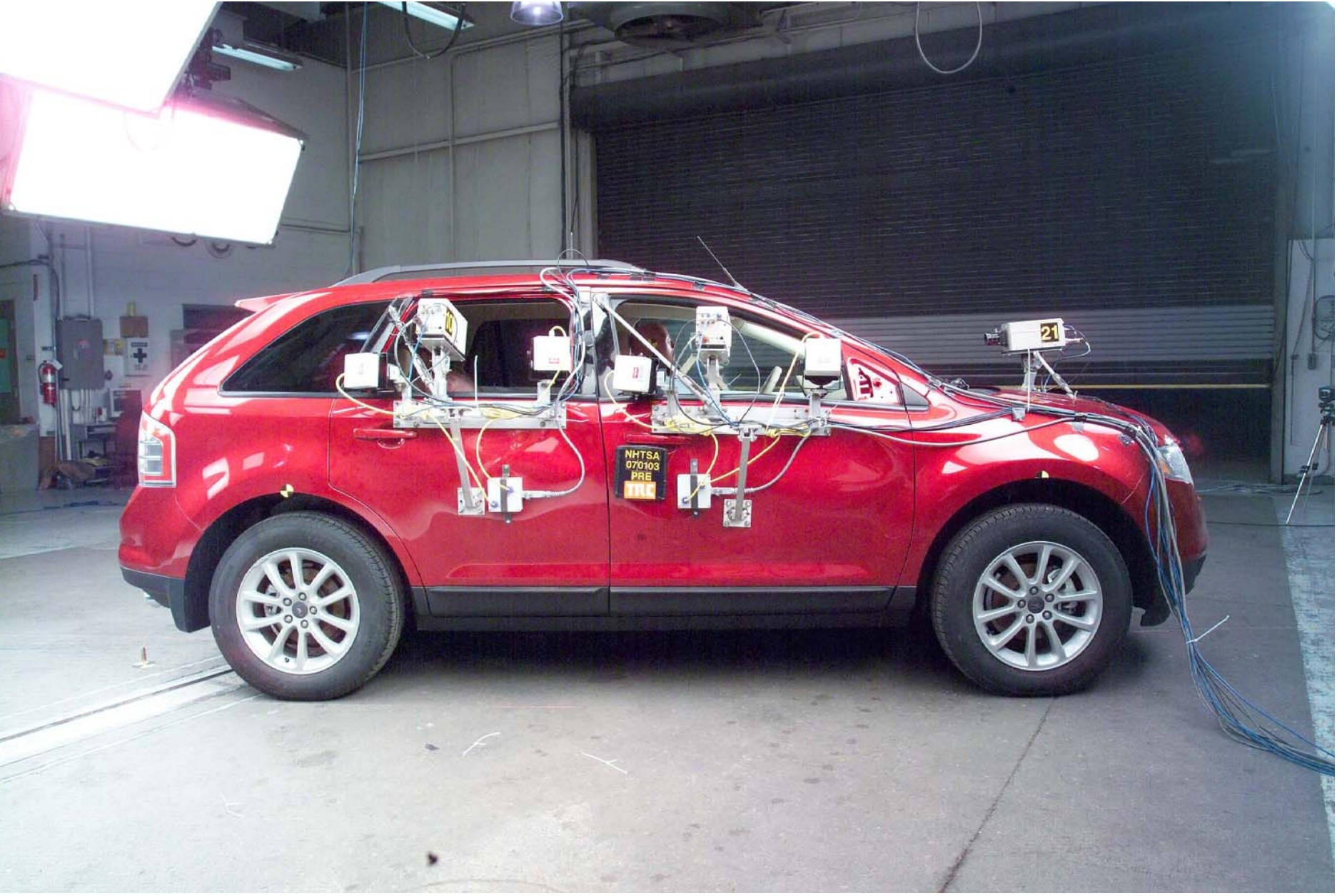


Figure A-13 Pre-Test Right Side View of Test Vehicle



Figure A-14 Post-Test Right Side View of Test Vehicle



Figure A-15 Pre-Test Right Front View of Test Vehicle



Figure A-16 Post-Test Right Front View of Test Vehicle



Figure A-17 Pre-Test Frontal View of Impactor Face



Figure A-18 Post-Test Frontal View of Impactor Face



Figure A-19 Pre-Test Left Side View of Impactor Face

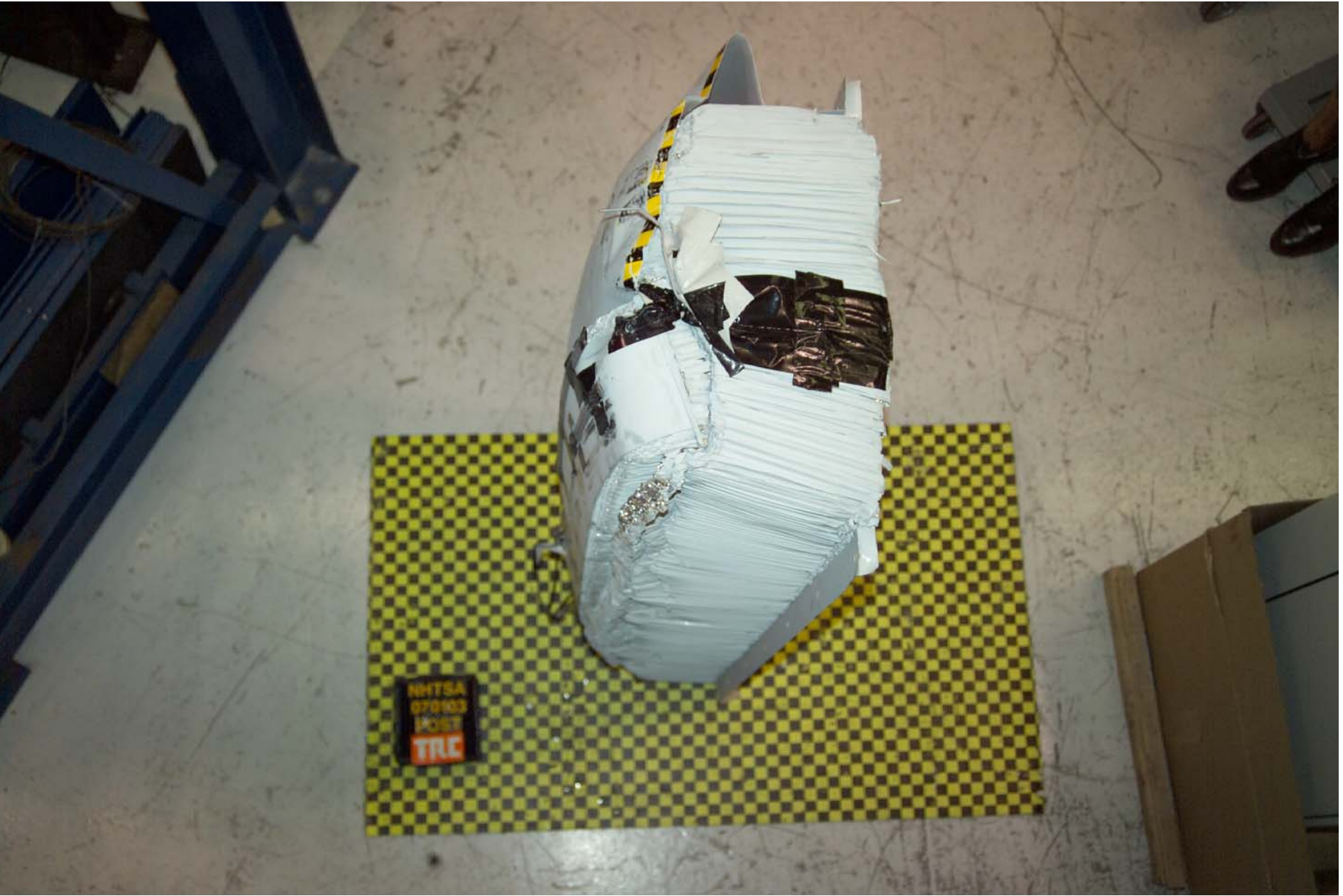


Figure A-20 Post-Test Left Side View of Impactor Face



Figure A-21 Pre-Test Right Side View of Impactor Face



Figure A-22 Post-Test Right Side View of Impactor Face

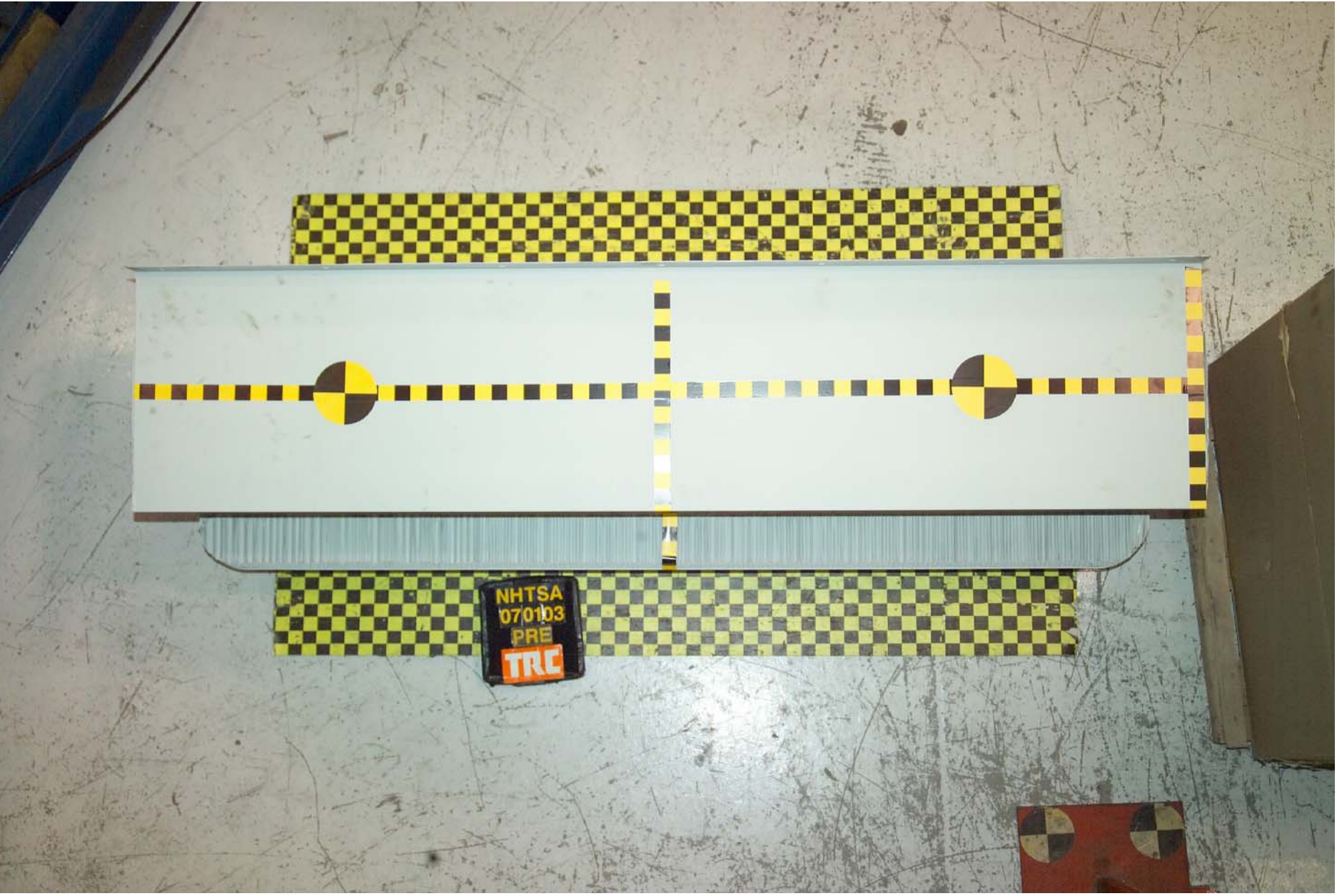


Figure A-23 Pre-Test Top View of Impactor Face



Figure A-24 Post-Test Top View of Impactor Face



Figure A-25 Post-Test Left Side View of Impactor



Figure A-26 Pre-Test Right Side View of Impactor



Figure A-27 Post-Test Right Side View of Impactor



Figure A-28 Post-Test Top View of Impactor

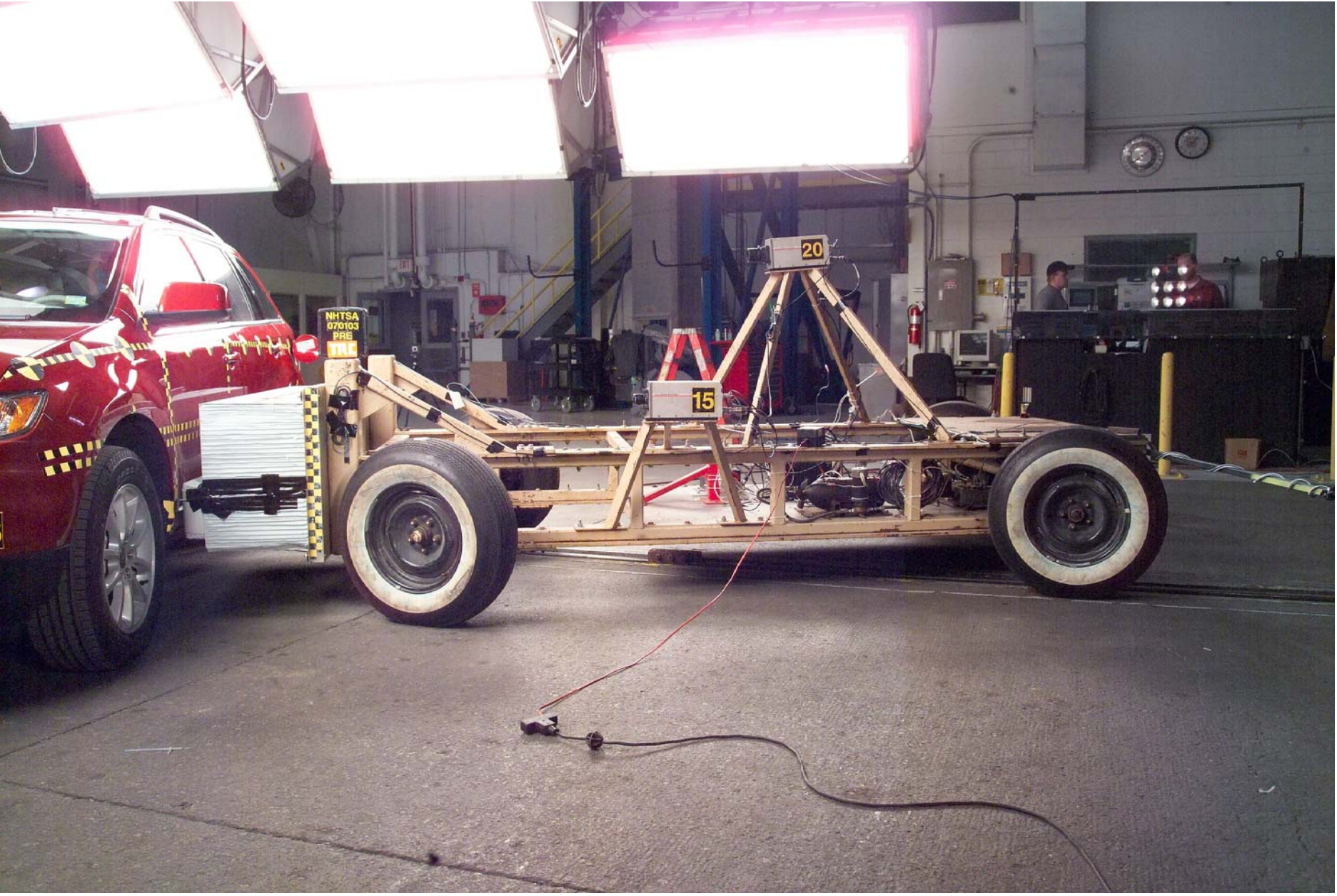


Figure A-29 Pre-Test Left Side Overall View of Impactor



Figure A-30 Post-Test Left Side Overall View of Impactor



Figure A-31 Pre-Test Rear Overall View of Impactor



Figure A-32 Post-Test Rear Overall View of Impactor

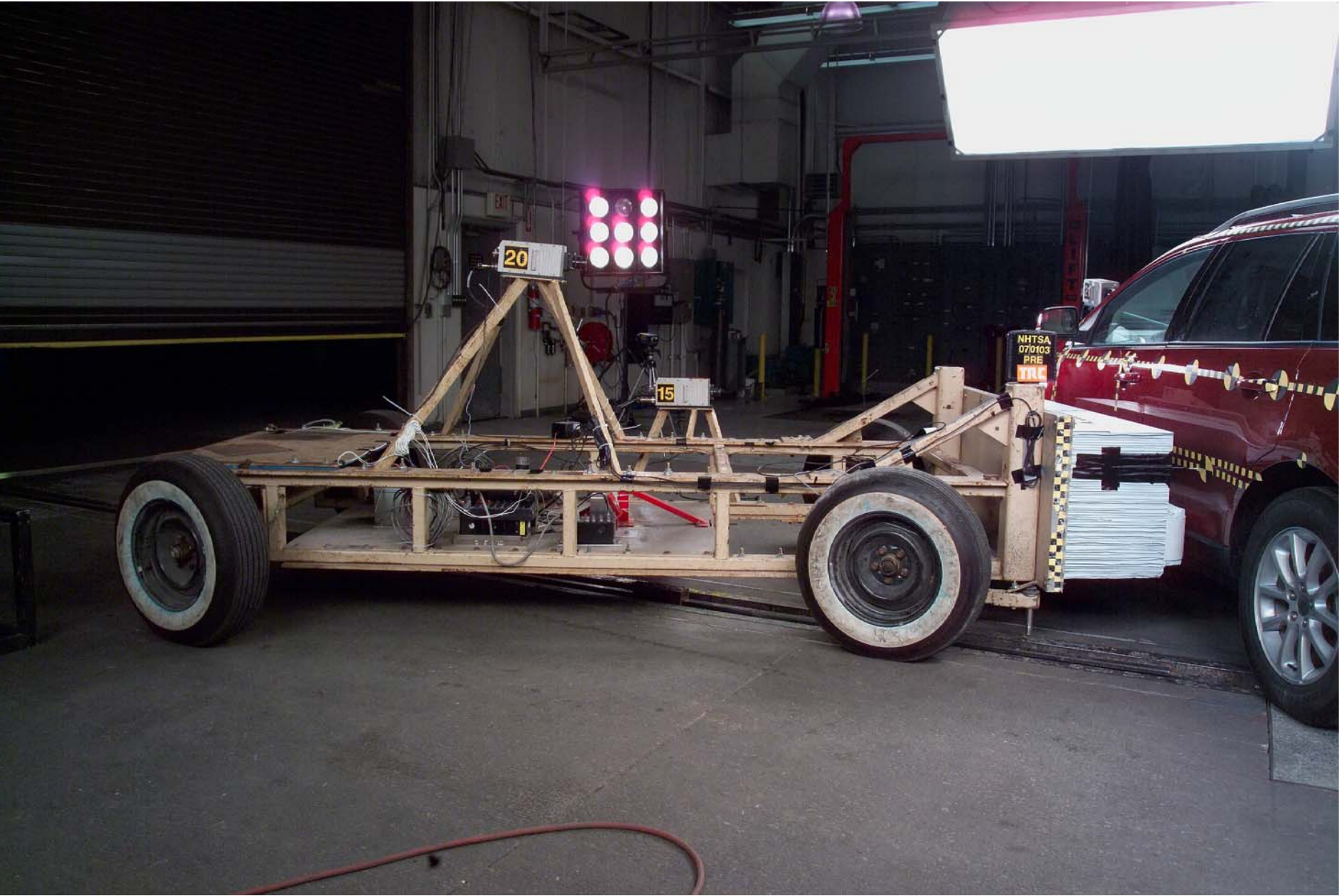


Figure A-33 Pre-Test Right Side Overall View of Impactor

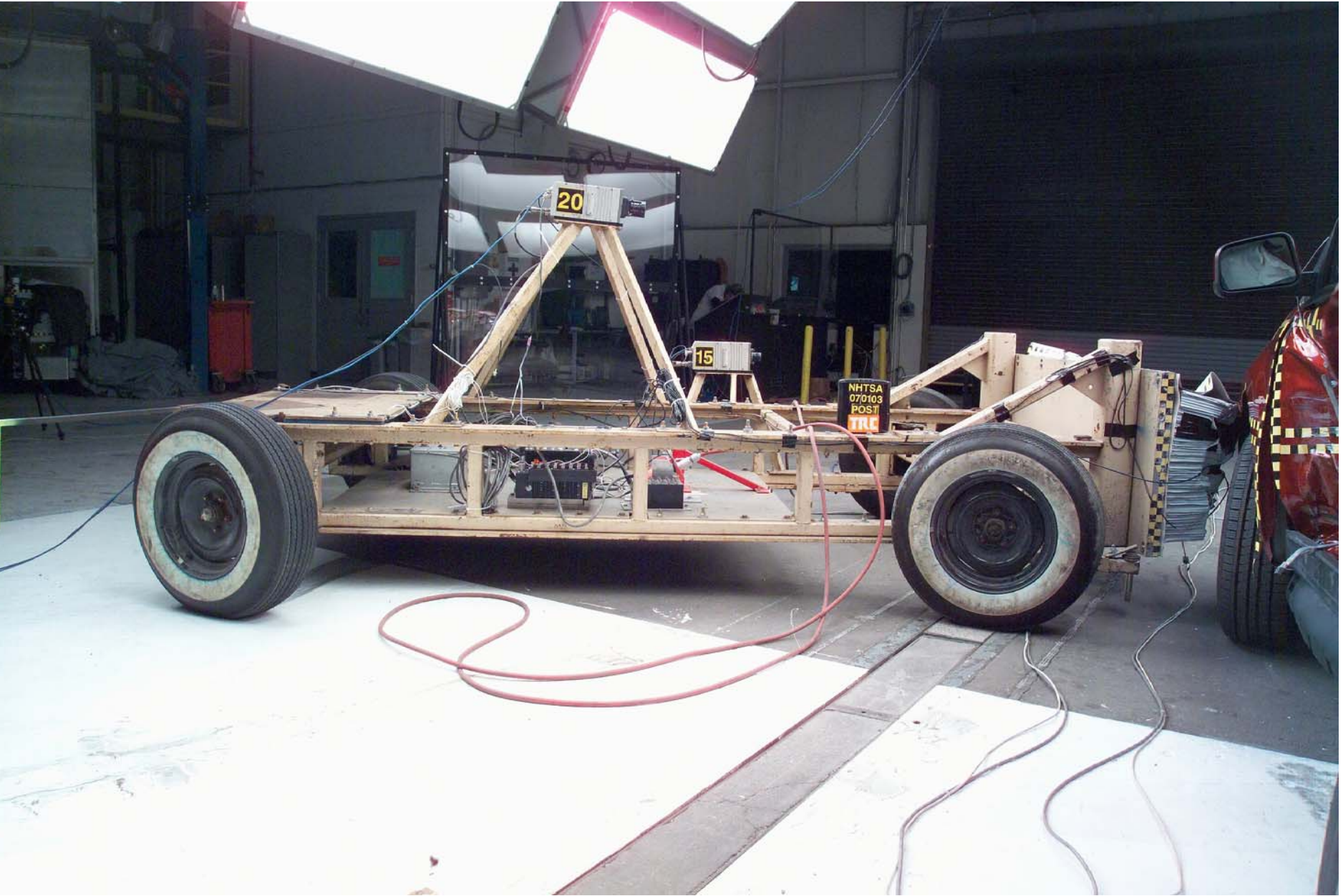


Figure A-34 Post-Test Right Side Overall View of Impactor



Figure A-35 Pre-Test View of MDB Showing Contact Switches in Place

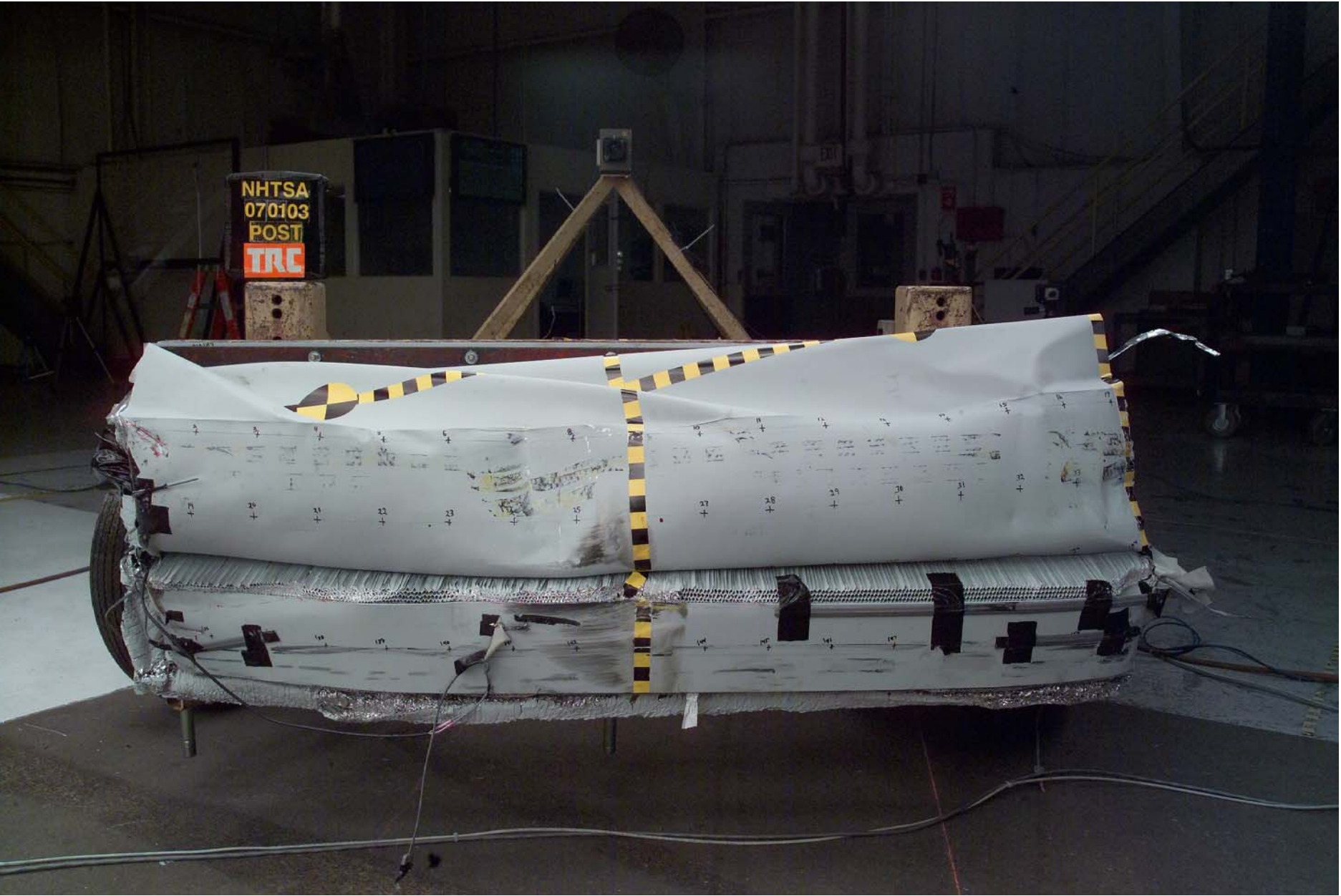


Figure A-36 Post-Test View of MDB Showing Contact Switches in Place



Figure A-37 Pre-Test Overhead View of MDB Aligned with Vehicle



Figure A-38 Post-Test Overhead View of MDB and Vehicle



Figure A-39 Pre-Test Right Occupant Compartment View of Front SID HIII



Figure A-40 Post-Test Right Occupant Compartment View of Front SID HIII

A-45

070103



Figure A-41 Pre-Test Right Occupant Compartment View of Rear SID HIII



Figure A-42 Post-Test Right Occupant Compartment View of Rear SID HIII

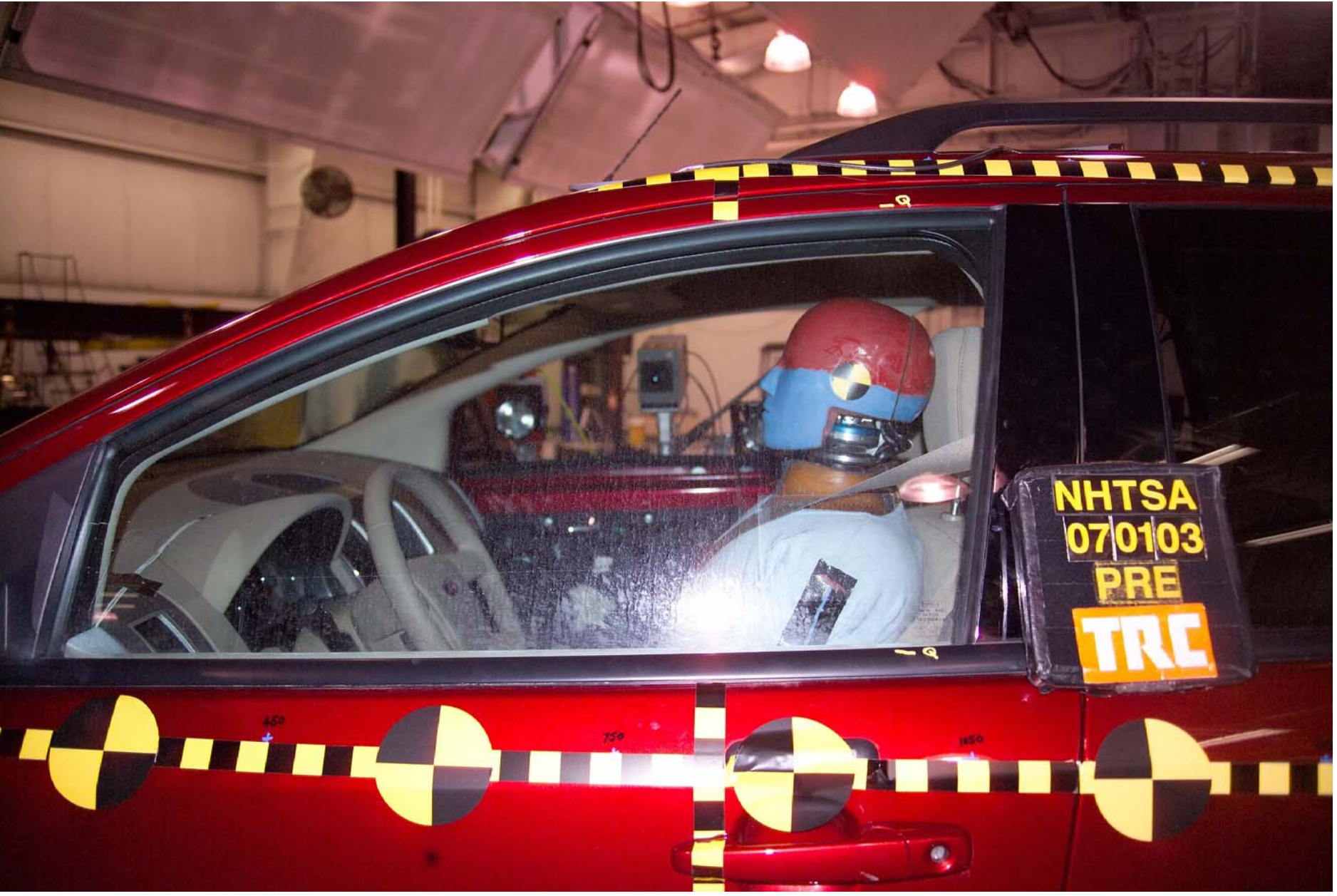


Figure A-43 Pre-Test Left View of Front SID HII



Figure A-44 Post-Test Left View of Front SID HMI



Figure A-45 Pre-Test Left View of Front SID HIII and Belt Position



Figure A-46 Pre-Test Left View of Front SID HIII and Door Clearance



Figure A-47 Post-Test Left View of Front SID HIII and Door Clearance



Figure A-48 Pre-Test Left View of Rear SID HII



Figure A-49 Post-Test Left View of Rear SID HIII



Figure A-50 Pre-Test Left of Rear SID HIII and Belt Position

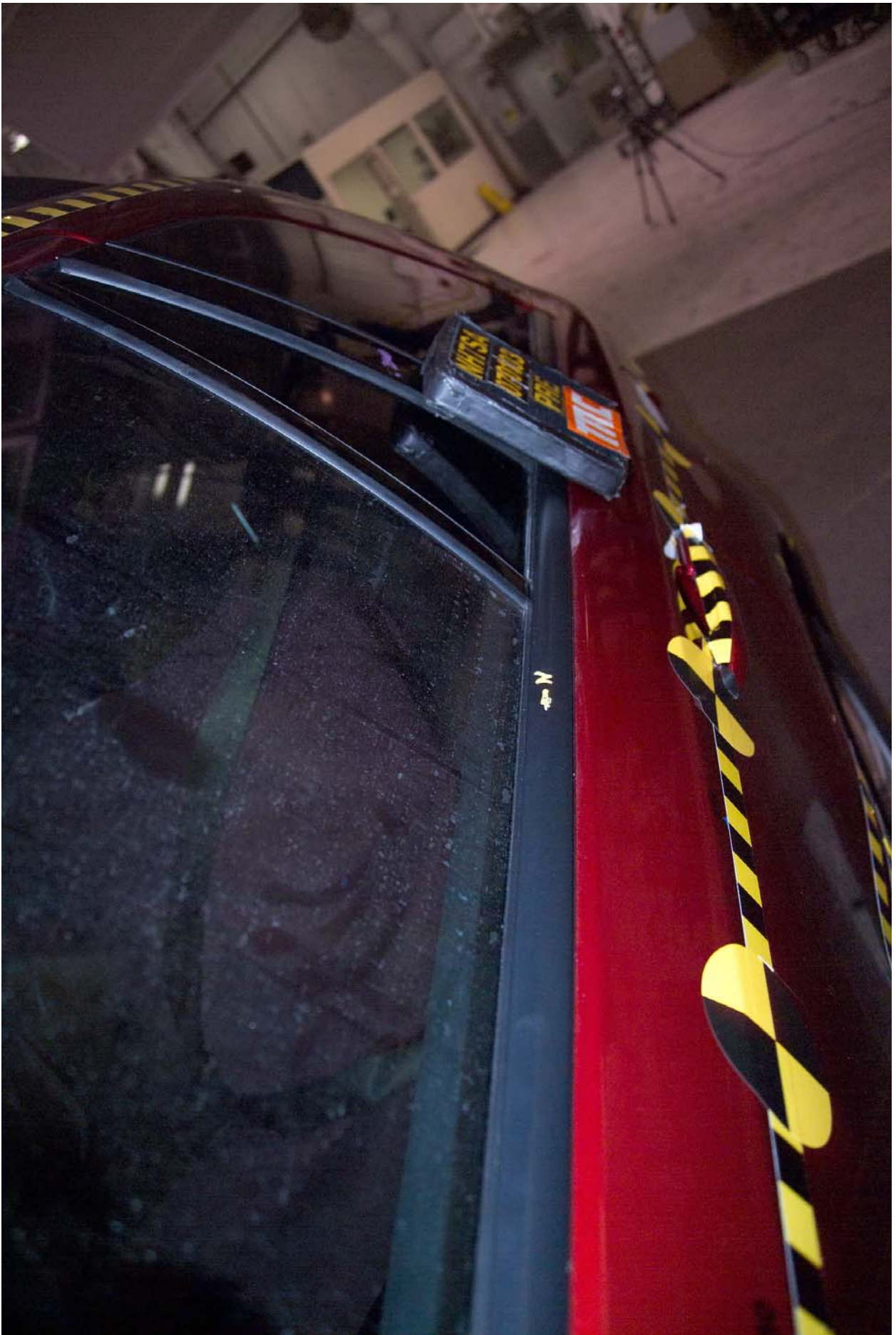


Figure A-51 Pre-Test Left View of Rear SID HIII and Door Clearance



Figure A-52 Post-Test Left View of Rear SID HIII and Door Clearance



Figure A-53 Pre-Test Interior of Front Door



Figure A-54 Post-Test Interior of Front Door Showing SID HIII Impact Locations



Figure A-55 Post-Test Front SID HIII Contact - View 1

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070103

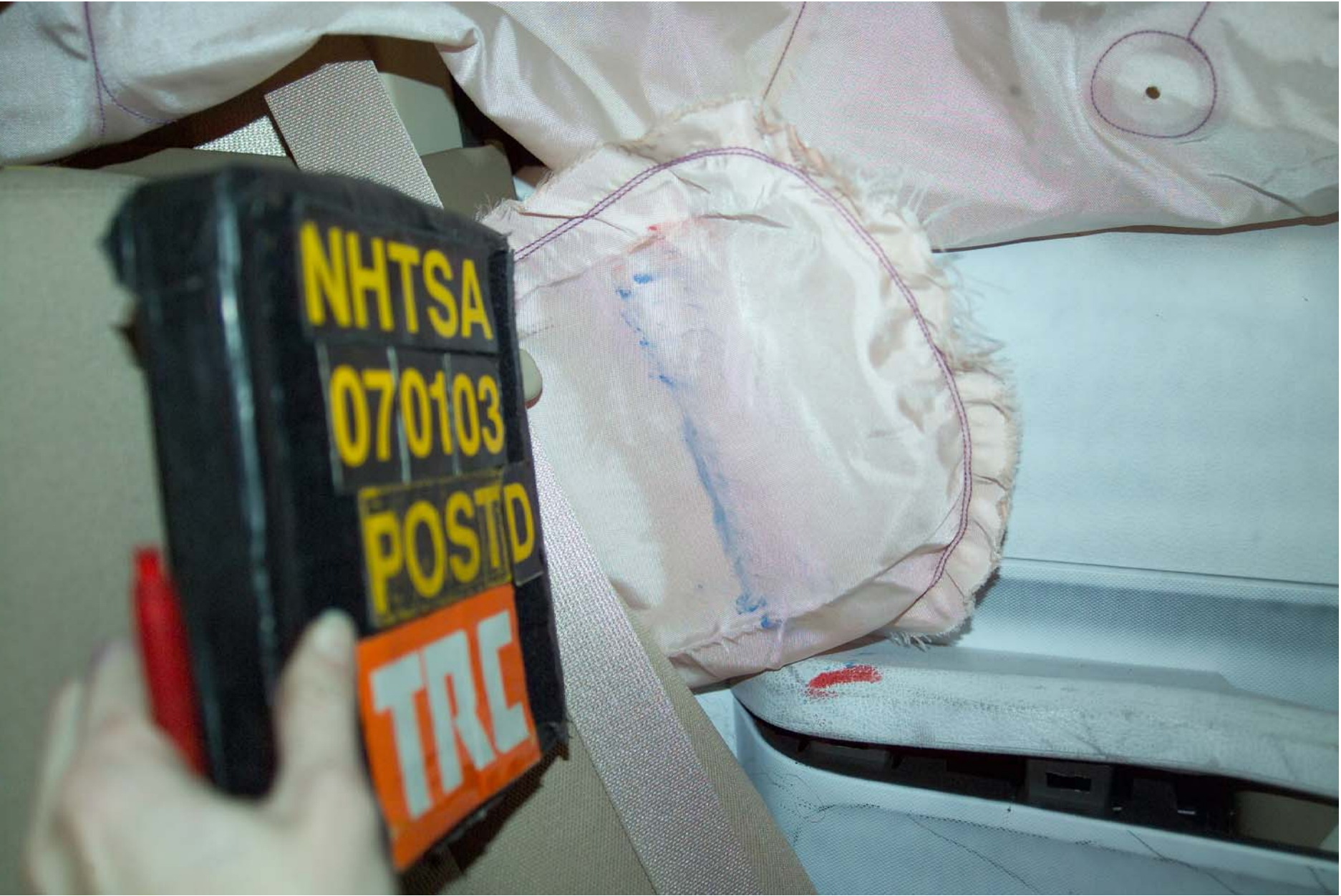


Figure A-56 Post-Test Front SID HII Contact - View 2

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Figure A-57 Post-Test Front SID HIII Contact - View 3



Figure A-58 Pre-Test Interior of Rear Panel

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Figure A-59 Post-Test Interior of Rear Panel Showing SID HIII Impact Locations



Figure A-60 Post-Test Rear SID HIII Contact - View 1

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Figure A-61 Post-Test Rear SID HIII Contact - View 2

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Figure A-62 Post-Test Rear SID HIII Contact - View 3

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Figure A-64 Post-Test Left Side View of MDB With Impactor Face in Position



Figure A-65 Pre-Test Primary Impact Point View

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Figure A-66 Post-Test Primary Impact Point View



Figure A-67 Pre-Test Right Side View of MDB With Impactor Face in Position

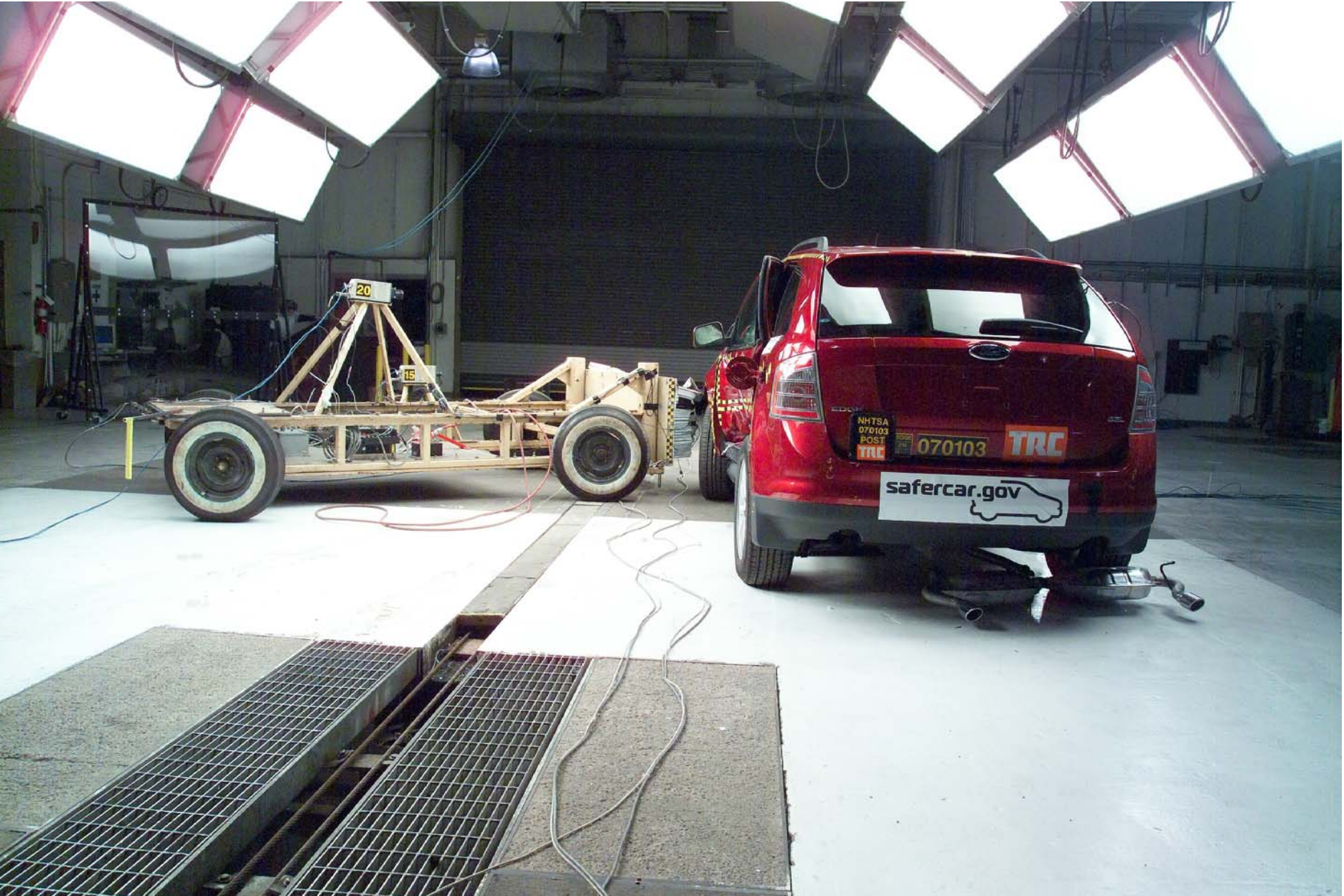


Figure A-68 Post-Test Right Side View of MDB With Impactor Face in Position



Figure A-69 Pre-Test Secondary Impact Point View



Figure A-70 Post-Test Secondary Impact Point View



Figure A-71 Pre-Test Overhead view of MDB With Impactor Face in Position

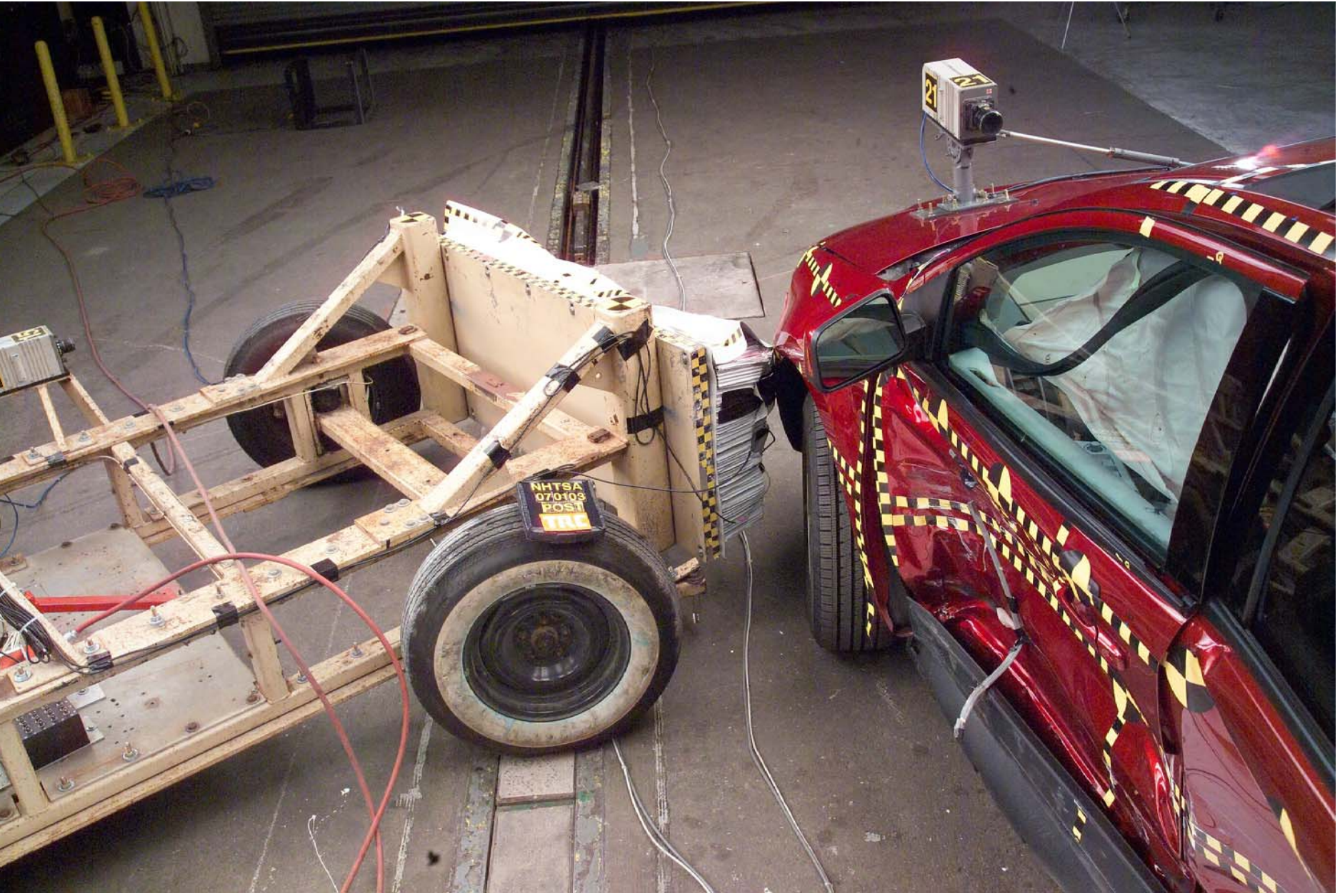


Figure A-72 Post-Test Overhead view of MDB With Impactor Face in Position

MFD. BY FORD MOTOR CO.

DATE: 11/06	GVWR: 5300LB/ 2404KG
FRONT GAWR: 2810LB	REAR GAWR: 2490LB
1275KG	WITH 1129KG
P245/60R18	TIRES P245/60R18
18x7.5J	RIMS 18x7.5J
AT 240 kPa/ 35 PSI COLD	WITH TIRES RIMS
	AT 240 kPa/ 35 PSI COLD

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VIN: 2FMDK38C67BA33861

TYPE: MPV

F0084
T0402



EXT PNT: G2	RC: 44	DSO:
WB	INT TR	TP/PS
111	2C	1
AXLE	TR	SPR
2F	J	AAAA
UTC	W05	7Q11F
5USA-1S20472-BA		

Figure A-73 Pre-Test Vehicle Certification Label View



Figure A-74 Pre-Test Vehicle Recommended Tire Pressure Label View



Figure A-75 Post-Test Light Trap Digital Readout View

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Figure A-76 Impact Event



Figure A-77 Pre-Test Fuel Cap



Figure A-78 Post-Test Fuel Cap



Figure A-79 FMVSS 301 Rollover View at 90°



Figure A-80 FMVSS 301 Rollover View at 180°

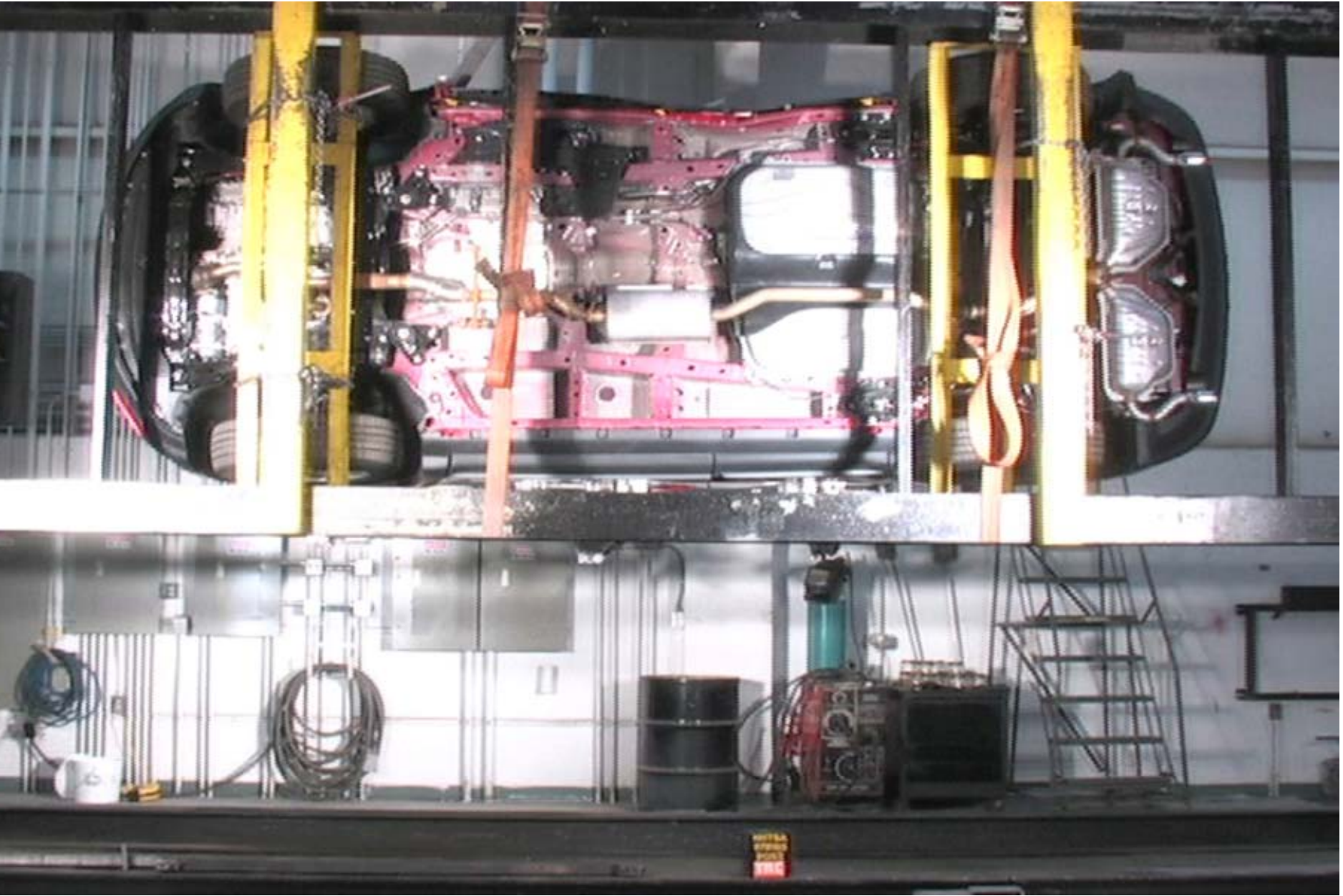


Figure A-81 FMVSS 301 Rollover View at 270°

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Figure A-82 FMVSS 301 Rollover View at 360°

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Figure A-83 Pre-Test Cargo Ballast View

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Appendix B

Data Plots

Table of Data Plots
Driver and Passenger Dummy Instrumentation Plots
Acceleration Data - Filter Class 1000
Integration Data - Filter Class 180
Force Data - Filter Class 1000
Moment Data - Filter Class 600
Contact Data - Filter Class 1000

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
1	Driver Head X-Axis Acceleration	B-10
2	Driver Head X-Axis Velocity	B-11
3	Driver Head Y-Axis Acceleration	B-12
4	Driver Head Y-Axis Velocity	B-13
5	Driver Head Z-Axis Acceleration	B-14
6	Driver Head Z-Axis Velocity	B-15
7	Driver Head Resultant Acceleration	B-16
8	Driver Neck X-Axis Shear Force	B-17
9	Driver Neck Y-Axis Shear Force	B-18
10	Driver Neck Z-Axis Axial Force	B-19
11	Driver Neck Moment about X Axis	B-20
12	Driver Neck Moment about Y Axis	B-21
13	Driver Neck Moment about Z Axis	B-22
14	Driver Neck Occipital Condyle Moment about X Axis	B-23
15	Driver Upper Rib Y-Axis Acceleration	B-24
16	Driver Upper Rib Y-Axis Velocity	B-25
17	Driver Lower Rib Y-Axis Acceleration	B-26
18	Driver Lower Rib Y-Axis Velocity	B-27
19	Driver Lower Spine Y-Axis Acceleration	B-28
20	Driver Lower Spine Y-Axis Velocity	B-29
21	Driver Pelvis Y-Axis Acceleration	B-30
22	Driver Pelvis Y-Axis Velocity	B-31
23	Left Rear Passenger Head X-Axis Acceleration	B-32

Table of Data Plots (Continued)

Driver and Passenger Dummy Instrumentation Plots (Continued)

Acceleration Data - Filter Class 1000

Integration Data - Filter Class 180

Force Data - Filter Class 1000

Moment Data - Filter Class 600

Contact Data - Filter Class 1000

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
24	Left Rear Passenger Head X-Axis Velocity	B-33
25	Left Rear Passenger Head Y-Axis Acceleration	B-34
26	Left Rear Passenger Head Y-Axis Velocity	B-35
27	Left Rear Passenger Head Z-Axis Acceleration	B-36
28	Left Rear Passenger Head Z-Axis Velocity	B-37
29	Left Rear Passenger Head Resultant Acceleration	B-38
30	Left Rear Passenger Neck X-Axis Shear Force	B-39
31	Left Rear Passenger Neck Y-Axis Shear Force	B-40
32	Left Rear Passenger Neck Z-Axis Axial Force	B-41
33	Left Rear Passenger Neck Moment about X Axis	B-42
34	Left Rear Passenger Neck Moment about Y Axis	B-43
35	Left Rear Passenger Neck Moment about Z Axis	B-44
36	Left Rear Passenger Neck Occipital Condyle Moment about X Axis	B-45
37	Left Rear Passenger Upper Rib Y-Axis Acceleration	B-46
38	Left Rear Passenger Upper Rib Y-Axis Velocity	B-47
39	Left Rear Passenger Lower Rib Y-Axis Acceleration	B-48
40	Left Rear Passenger Lower Rib Y-Axis Velocity	B-49
41	Left Rear Passenger Lower Spine Y-Axis Acceleration	B-50
42	Left Rear Passenger Lower Spine Y-Axis Velocity	B-51
43	Left Rear Passenger Pelvis Y-Axis Acceleration	B-52
44	Left Rear Passenger Pelvis Y-Axis Velocity	B-53

Table of Data Plots (Continued)

Driver and Passenger Dummy Redundant Instrumentation Plots

Acceleration Data - Filter Class 1000 - Redundant

Integration Data - Filter Class 180 - Redundant

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
45	Driver Head X-Axis Redundant Acceleration	B-55
46	Driver Head X-Axis Redundant Velocity	B-56
47	Driver Head Y-Axis Redundant Acceleration	B-57
48	Driver Head Y-Axis Redundant Velocity	B-58
49	Driver Head Z-Axis Redundant Acceleration	B-59
50	Driver Head Z-Axis Redundant Velocity	B-60
51	Driver Head Resultant Redundant Acceleration	B-61
52	Driver Upper Rib Y-Axis Redundant Acceleration	B-62
53	Driver Upper Rib Y-Axis Redundant Velocity	B-63
54	Driver Lower Rib Y-Axis Redundant Acceleration	B-64
55	Driver Lower Rib Y-Axis Redundant Velocity	B-65
56	Driver Lower Spine Y-Axis Redundant Acceleration	B-66
57	Driver Lower Spine Y-Axis Redundant Velocity	B-67
58	Left Rear Passenger Head X-Axis Redundant Acceleration	B-68
59	Left Rear Passenger Head X-Axis Redundant Velocity	B-69
60	Left Rear Passenger Head Y-Axis Redundant Acceleration	B-70
61	Left Rear Passenger Head Y-Axis Redundant Velocity	B-71
62	Left Rear Passenger Head Z-Axis Redundant Acceleration	B-72
63	Left Rear Passenger Head Z-Axis Redundant Velocity	B-73
64	Left Rear Passenger Head Resultant Redundant Acceleration	B-74
65	Left Rear Passenger Upper Rib Y-Axis Redundant Acceleration	B-75
66	Left Rear Passenger Upper Rib Y-Axis Redundant Velocity	B-76
67	Left Rear Passenger Lower Rib Y-Axis Redundant Acceleration	B-77
68	Left Rear Passenger Lower Rib Y-Axis Redundant Velocity	B-78
69	Left Rear Passenger Lower Spine Y-Axis Redundant Acceleration	B-79
70	Left Rear Passenger Lower Spine Y-Axis Redundant Velocity	B-80

Table of Data Plots (Continued)
Test Vehicle Instrumentation Plots
Acceleration Data - Filter Class 60
Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
71	Right Side Sill at Front Seat X-Axis Acceleration	B-82
72	Right Side Sill at Front Seat X-Axis Velocity	B-83
73	Right Side Sill at Front Seat Y-Axis Acceleration	B-84
74	Right Side Sill at Front Seat Y-Axis Velocity	B-85
75	Right Side Sill at Front Seat Z-Axis Acceleration	B-86
76	Right Side Sill at Front Seat Z-Axis Velocity	B-87
77	Right Side Sill at Front Seat Resultant Acceleration	B-88
78	Right Side Sill at Rear Seat X-Axis Acceleration	B-89
79	Right Side Sill at Rear Seat X-Axis Velocity	B-90
80	Right Side Sill at Rear Seat Y-Axis Acceleration	B-91
81	Right Side Sill at Rear Seat Y-Axis Velocity	B-92
82	Right Side Sill at Rear Seat Z-Axis Acceleration	B-93
83	Right Side Sill at Rear Seat Z-Axis Velocity	B-94
84	Right Side Sill at Rear Seat Resultant Acceleration	B-95
85	Rear Floorpan Above Axle X-Axis Acceleration	B-96
86	Rear Floorpan Above Axle X-Axis Velocity	B-97
87	Rear Floorpan Above Axle Y-Axis Acceleration	B-98
88	Rear Floorpan Above Axle Y-Axis Velocity	B-99
89	Rear Floorpan Above Axle Z-Axis Acceleration	B-100
90	Rear Floorpan Above Axle Z-Axis Velocity	B-101
91	Rear Floorpan Above Axle Resultant Acceleration	B-102
92	Left Side Sill at Front Seat Y-Axis Acceleration	B-103
93	Left Side Sill at Front Seat Y-Axis Velocity	B-104
94	Left Side Sill at Front Seat Y-Axis Displacement	B-105

Table of Data Plots (Continued)
Test Vehicle Instrumentation Plots (Continued)
Acceleration Data - Filter Class 60
Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
95	Left Side Sill at Rear Seat Y-Axis Acceleration	B-106
96	Left Side Sill at Rear Seat Y-Axis Velocity	B-107
97	Left Side Sill at Rear Seat Y-Axis Displacement	B-108
98	Right Rear Occupant Compartment Y-Axis Acceleration	B-109
99	Right Rear Occupant Compartment Y-Axis Velocity	B-110
100	Right Rear Occupant Compartment Y-Axis Displacement	B-111
101	Left Lower A-Post Y-Axis Acceleration	B-112
102	Left Lower A-Post Y-Axis Velocity	B-113
103	Left Middle A-Post Y-Axis Acceleration	B-114
104	Left Middle A-Post Y-Axis Velocity	B-115
105	Left Lower B-Post Y-Axis Acceleration	B-116
106	Left Lower B-Post Y-Axis Velocity	B-117
107	Left Middle B-Post Y-Axis Acceleration	B-118
108	Left Middle B-Post Y-Axis Velocity	B-119
109	Left Front Seat Track Y-Axis Acceleration	B-120
110	Left Front Seat Track Y-Axis Velocity	B-121
111	Left Rear Seat Track Y-Axis Acceleration	B-122
112	Left Rear Seat Track Y-Axis Velocity	B-123
113	Vehicle Center of Gravity X-Axis Acceleration	B-124
114	Vehicle Center of Gravity X-Axis Velocity	B-125
115	Vehicle Center of Gravity Y-Axis Acceleration	B-126
116	Vehicle Center of Gravity Y-Axis Velocity	B-127
117	Vehicle Center of Gravity Z-Axis Acceleration	B-128
118	Vehicle Center of Gravity Z-Axis Velocity	B-129
119	Vehicle Center of Gravity Resultant Acceleration	B-130

Table of Data Plots (Continued)
 MDB Instrumentation Plots
 Acceleration Data - Filter Class 60
 Integration Data - Filter Class 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
120	MDB Center of Gravity X-Axis Acceleration	B-132
121	MDB Center of Gravity X-Axis Velocity	B-133
122	MDB Center of Gravity Y-Axis Acceleration	B-134
123	MDB Center of Gravity Y-Axis Velocity	B-135
124	MDB Center of Gravity Z-Axis Acceleration	B-136
125	MDB Center of Gravity Z-Axis Velocity	B-137
126	MDB Center of Gravity Resultant Acceleration	B-138
127	MDB Left Rear X-Axis Acceleration	B-139
128	MDB Left Rear X-Axis Velocity	B-140
129	MDB Left Rear Y-Axis Acceleration	B-141
130	MDB Left Rear Y-Axis Velocity	B-142
131	MDB Right Side Contact Switch	B-143
132	MDB Left Side Contact Switch	B-144

Table of Data Plots (Continued)
Driver and Passenger Dummy Instrumentation Plots
Acceleration Data - FIR Filtered

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
133	Driver Upper Rib Y-Axis Acceleration	B-146
134	Driver Lower Rib Y-Axis Acceleration	B-147
135	Driver Lower Spine Y-Axis Acceleration	B-148
136	Driver Pelvis Y-Axis Acceleration	B-149
137	Left Rear Passenger Upper Rib Y-Axis Acceleration	B-150
138	Left Rear Passenger Lower Rib Y-Axis Acceleration	B-151
139	Left Rear Passenger Lower Spine Y-Axis Acceleration	B-152
140	Left Rear Passenger Pelvis Y-Axis Acceleration	B-153
141	Driver Upper Rib Y-Axis Redundant Acceleration	B-154
142	Driver Lower Rib Y-Axis Redundant Acceleration	B-155
143	Driver Lower Spine Y-Axis Redundant Acceleration	B-156
144	Left Rear Passenger Upper Rib Y-Axis Redundant Acceleration	B-157
145	Left Rear Passenger Lower Rib Y-Axis Redundant Acceleration	B-158
146	Left Rear Passenger Lower Spine Y-Axis Redundant Acceleration	B-159

Driver and Passenger Dummy Instrumentation Plots



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

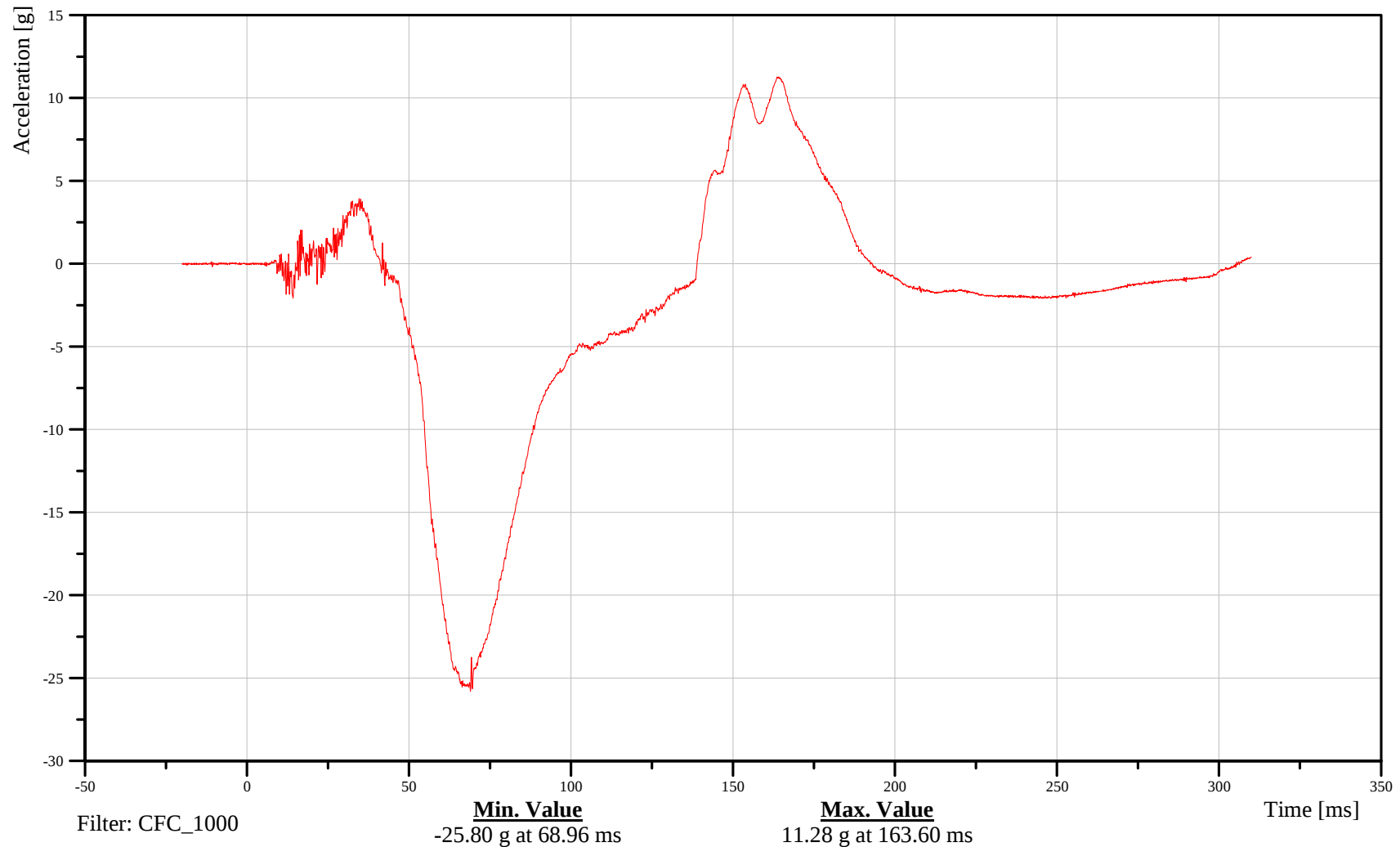
Date: 01/03/2007
Time: 15:44

DRIVER HEAD X-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCG00SHACXA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

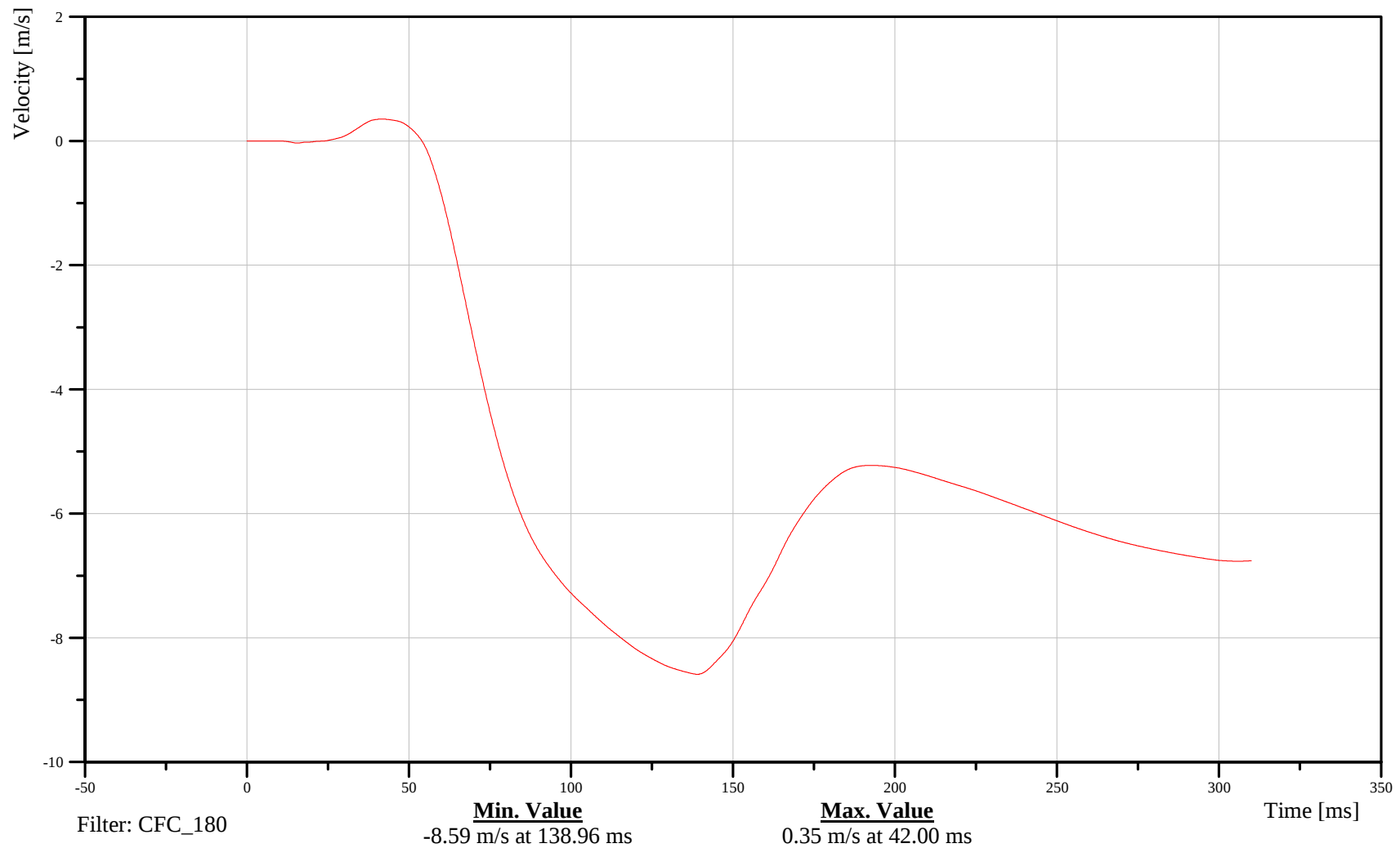
Date: 01/03/2007
Time: 15:44

DRIVER HEAD X-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11HEADCG00SHVEXC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

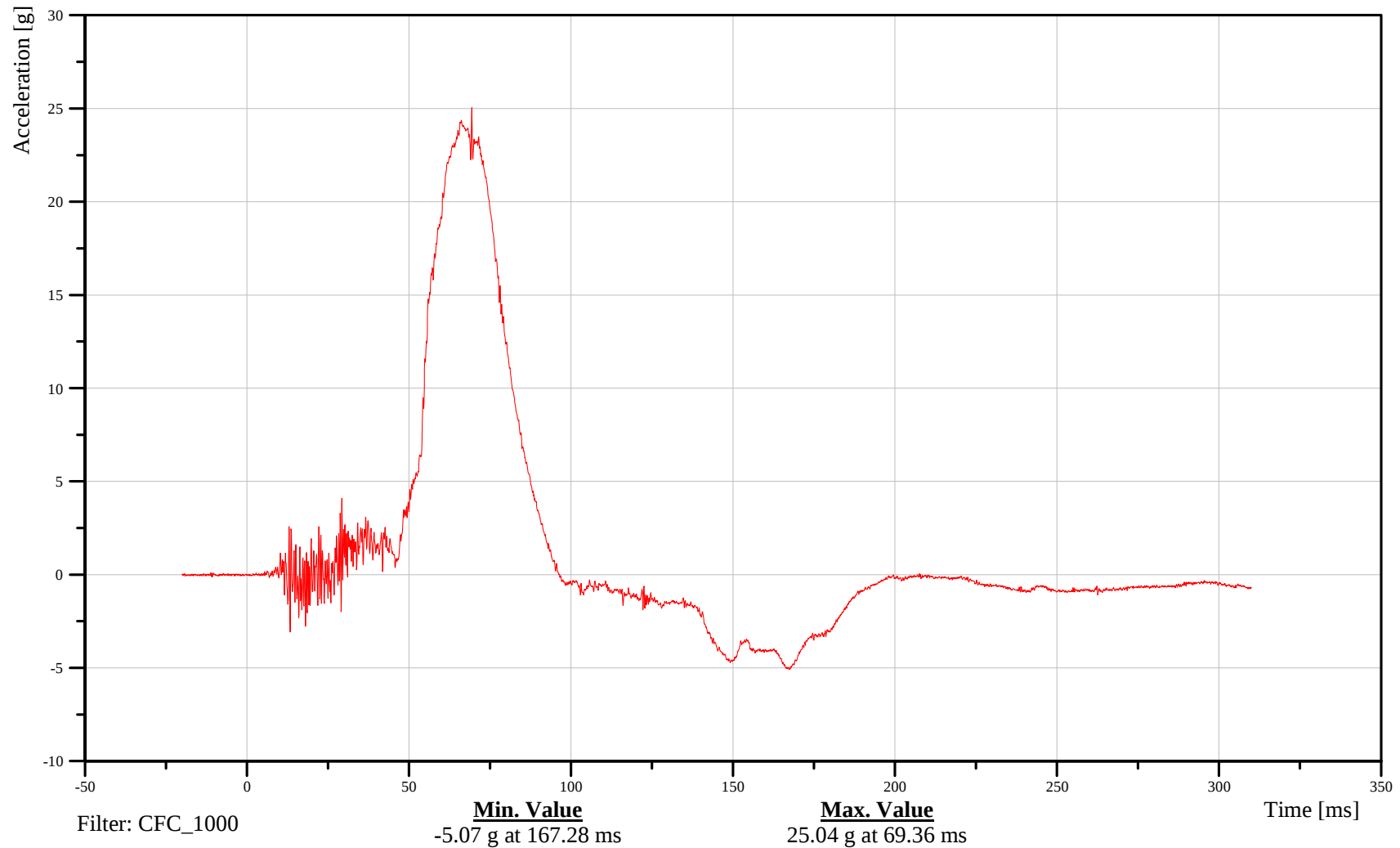
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCG00SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

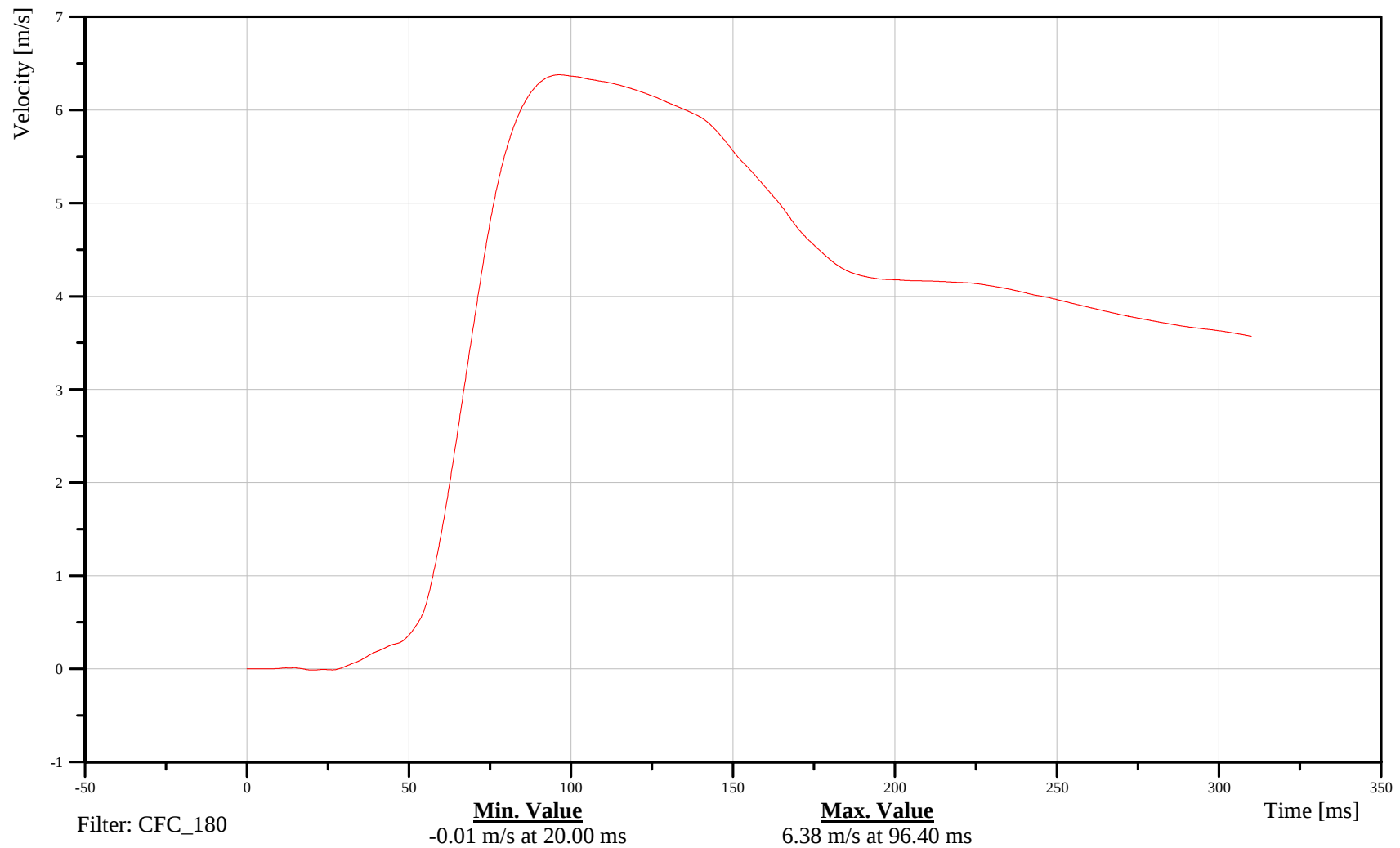
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11HEADCG00SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

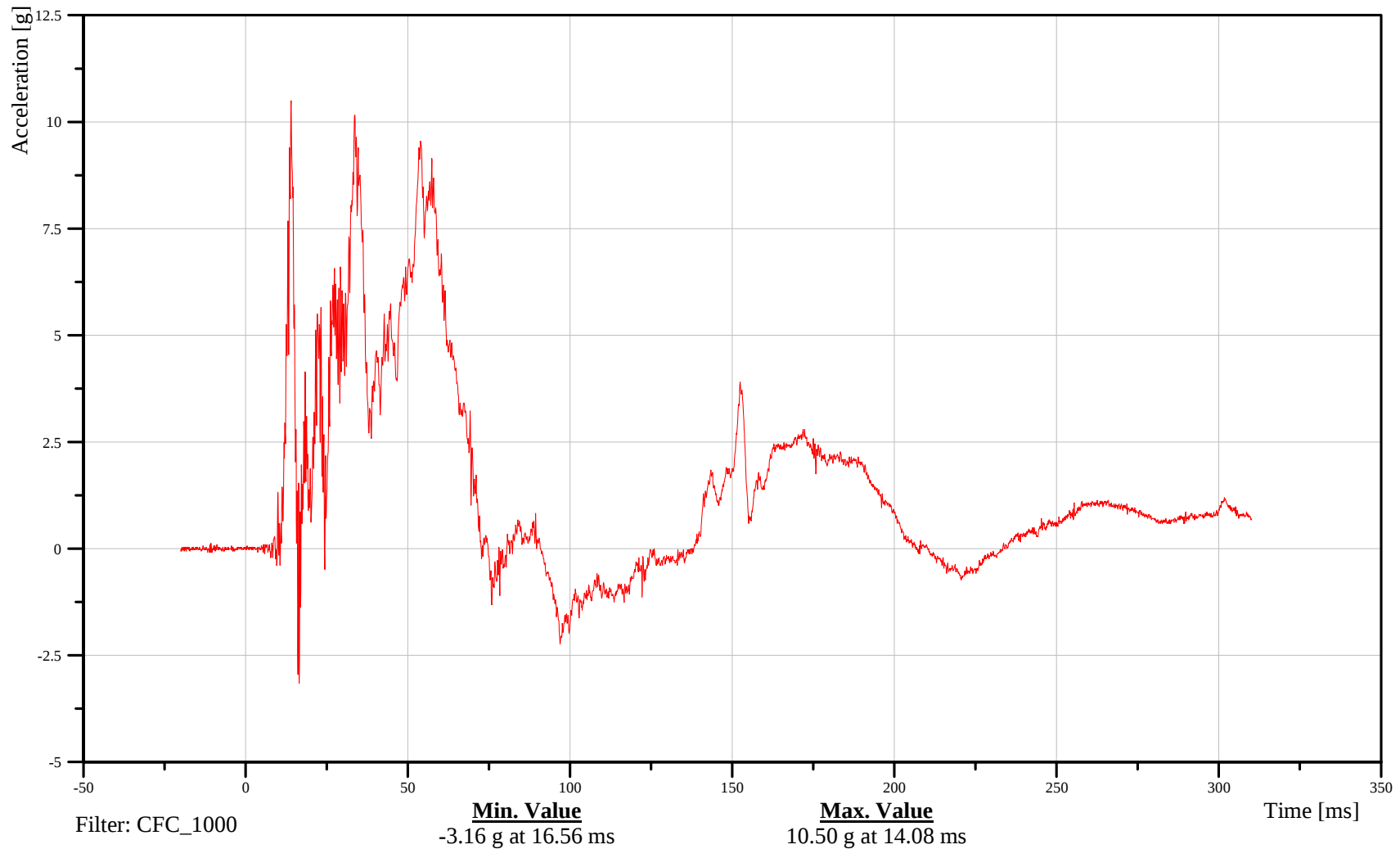
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Z-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCG00SHACZA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

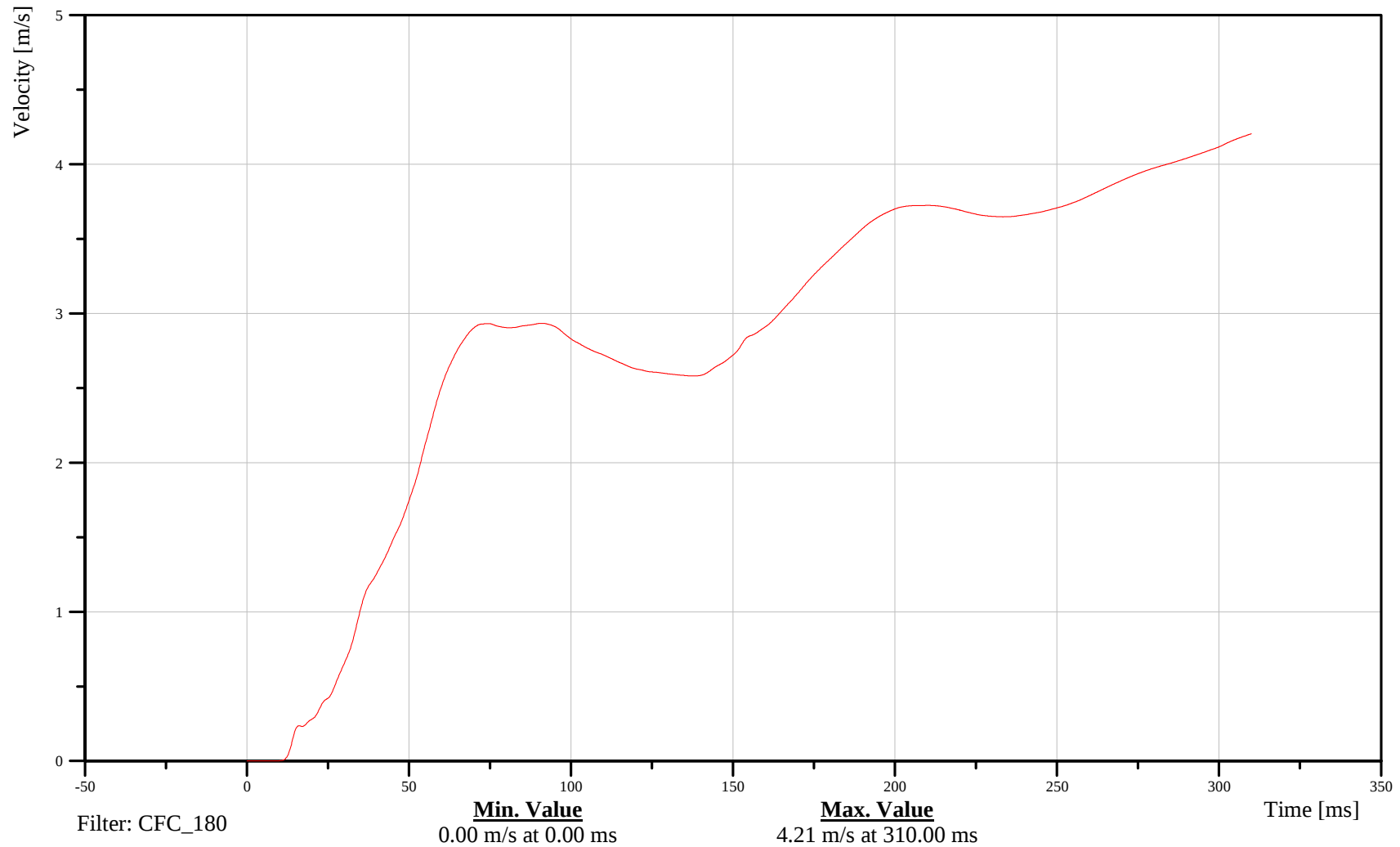
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Z-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11HEADCG00SHVEZC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

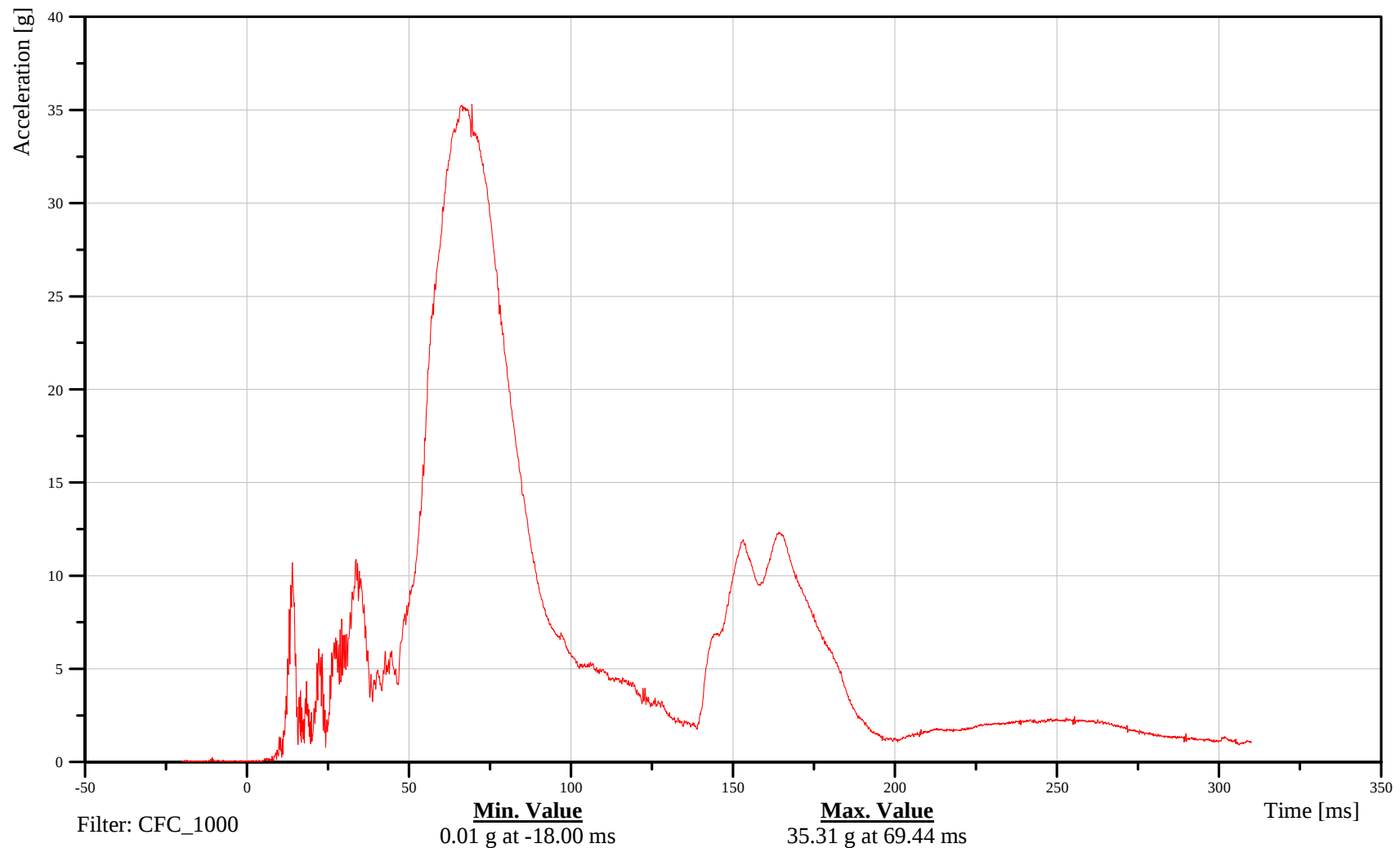
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Time: 15:44

DRIVER HEAD RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCG00SHACRA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

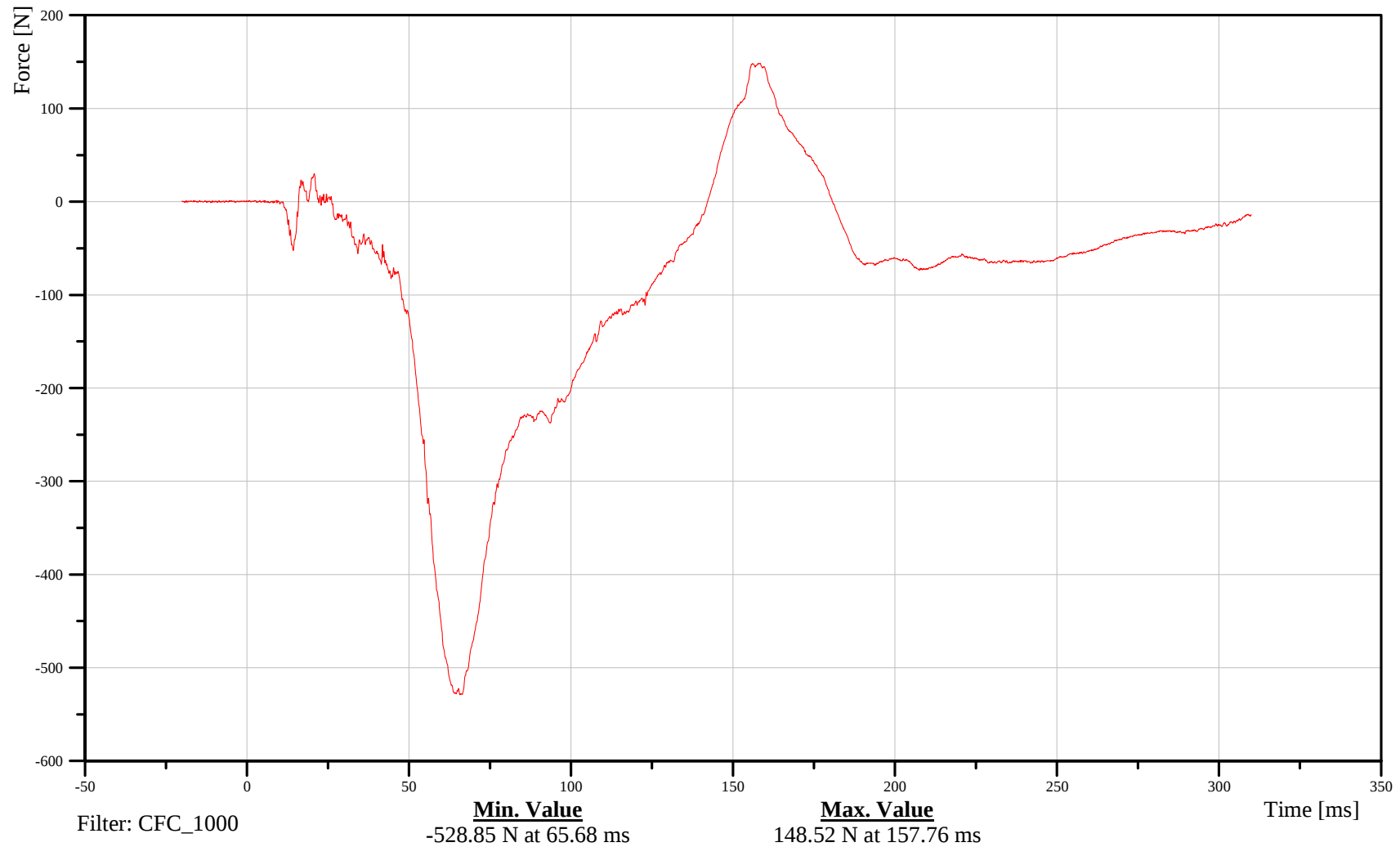
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Time: 15:44

DRIVER NECK X-AXIS SHEAR FORCE

Customer: NHTSA
Test Number: C70202

11NECKUP00SHFOXA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

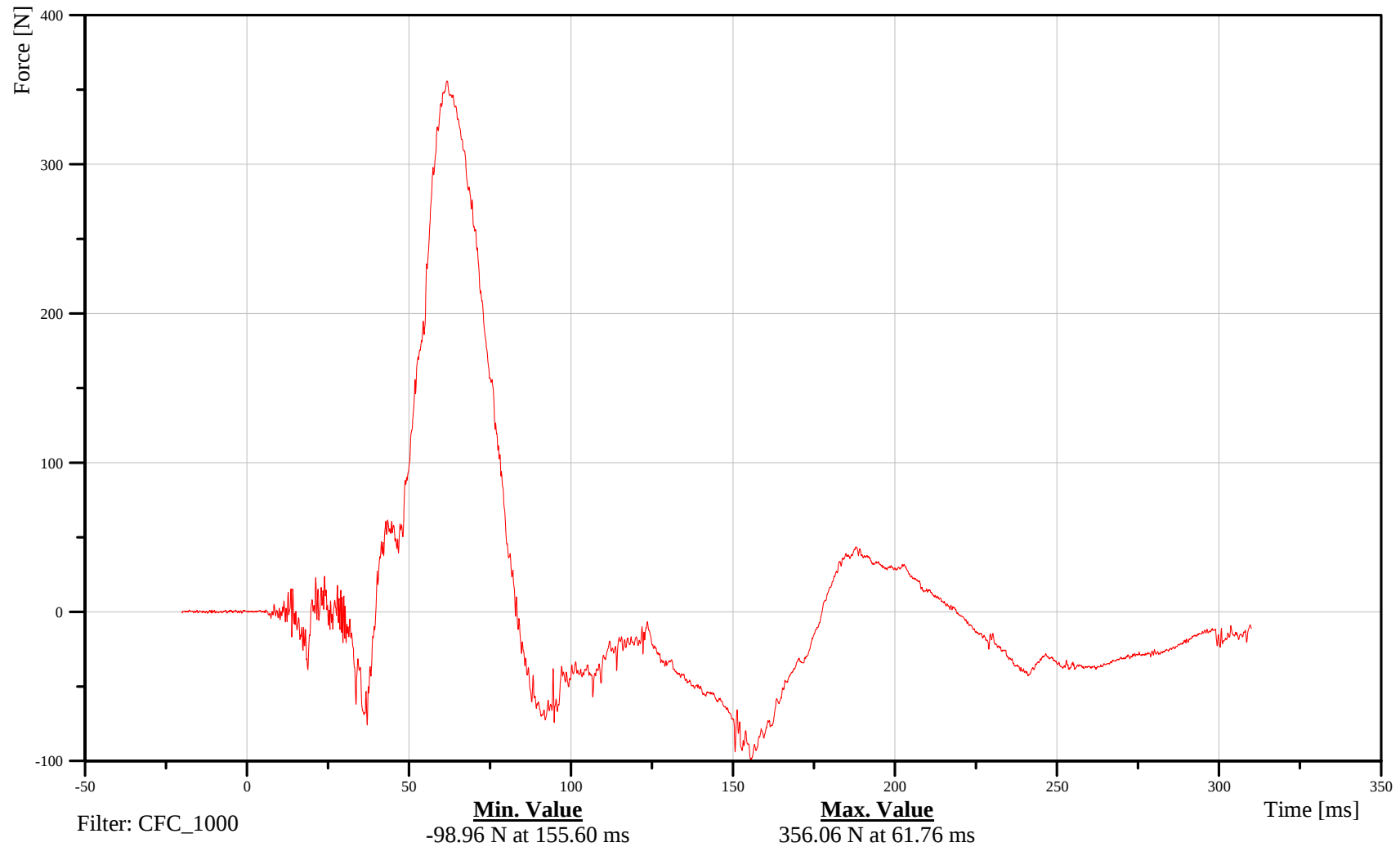
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Time: 15:44

DRIVER NECK Y-AXIS SHEAR FORCE

Customer: NHTSA
Test Number: C70202

11NECKUP00SHFOYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

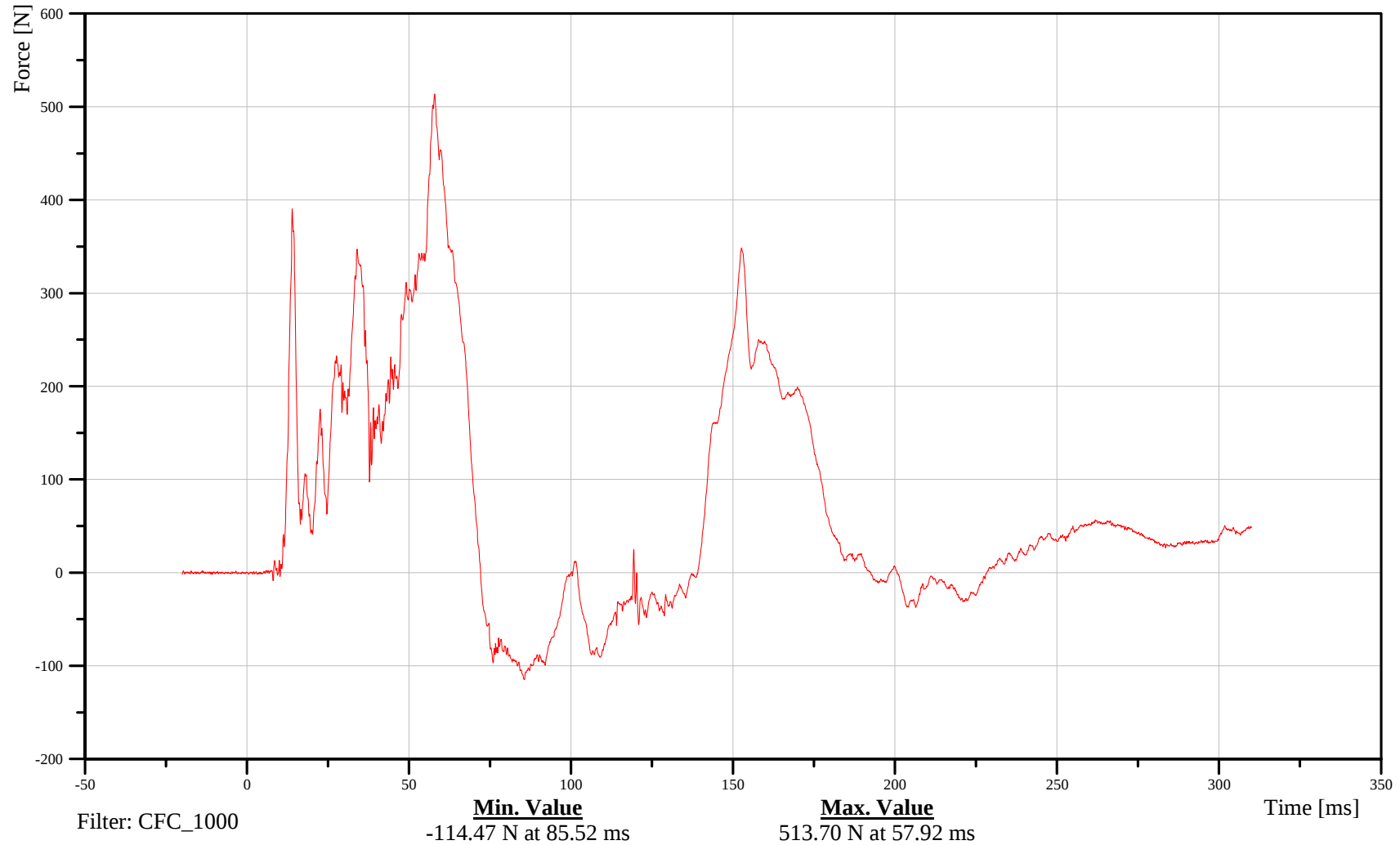
Date: 01/03/2007
Time: 15:44

DRIVER NECK Z-AXIS AXIAL FORCE

Customer: NHTSA
Test Number: C70202

11NECKUP00SHFOZA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

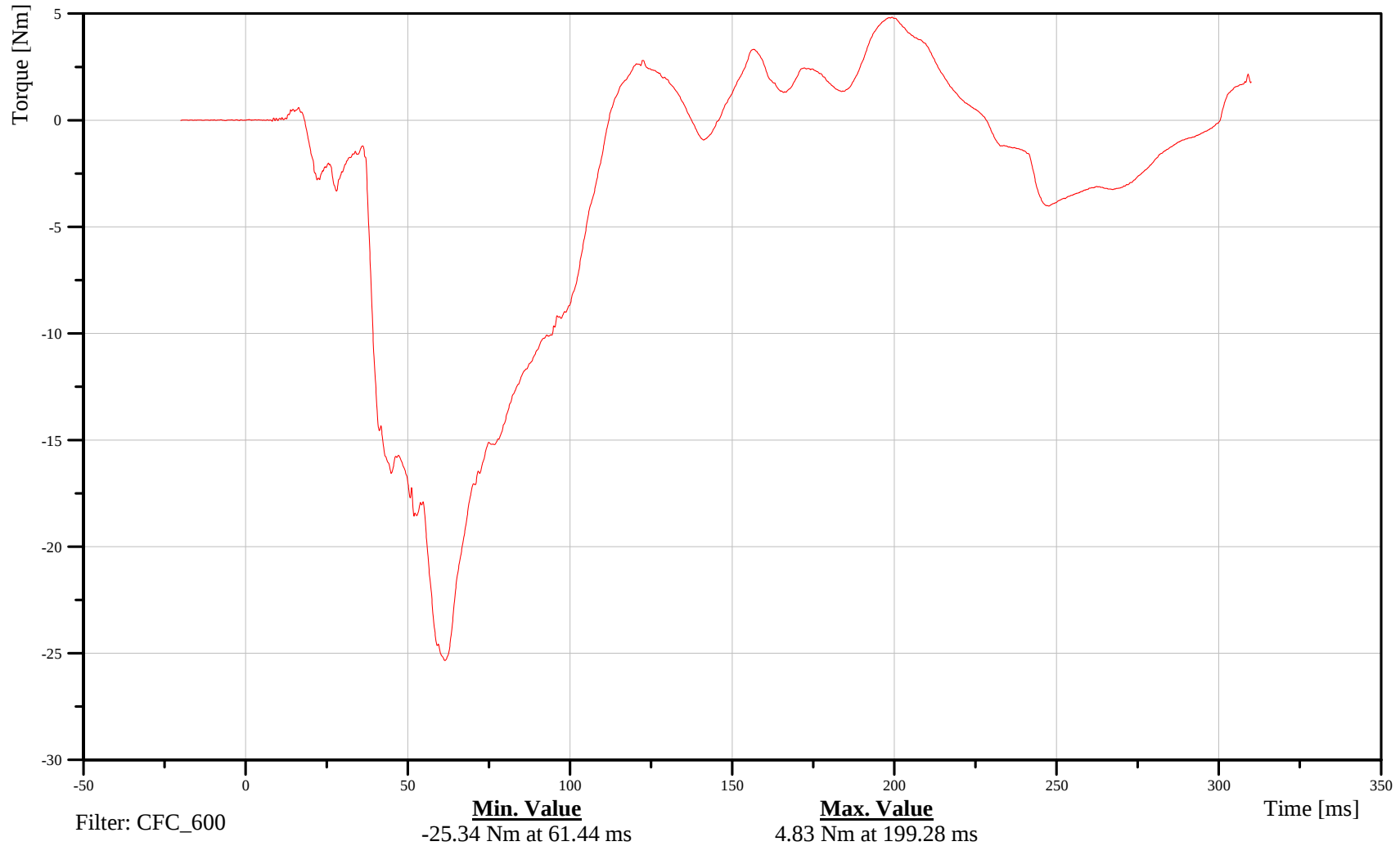
Date: 01/03/2007
Time: 15:44

DRIVER NECK MOMENT ABOUT X AXIS

Customer: NHTSA
Test Number: C70202

11NECKUP00SHMOXB

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

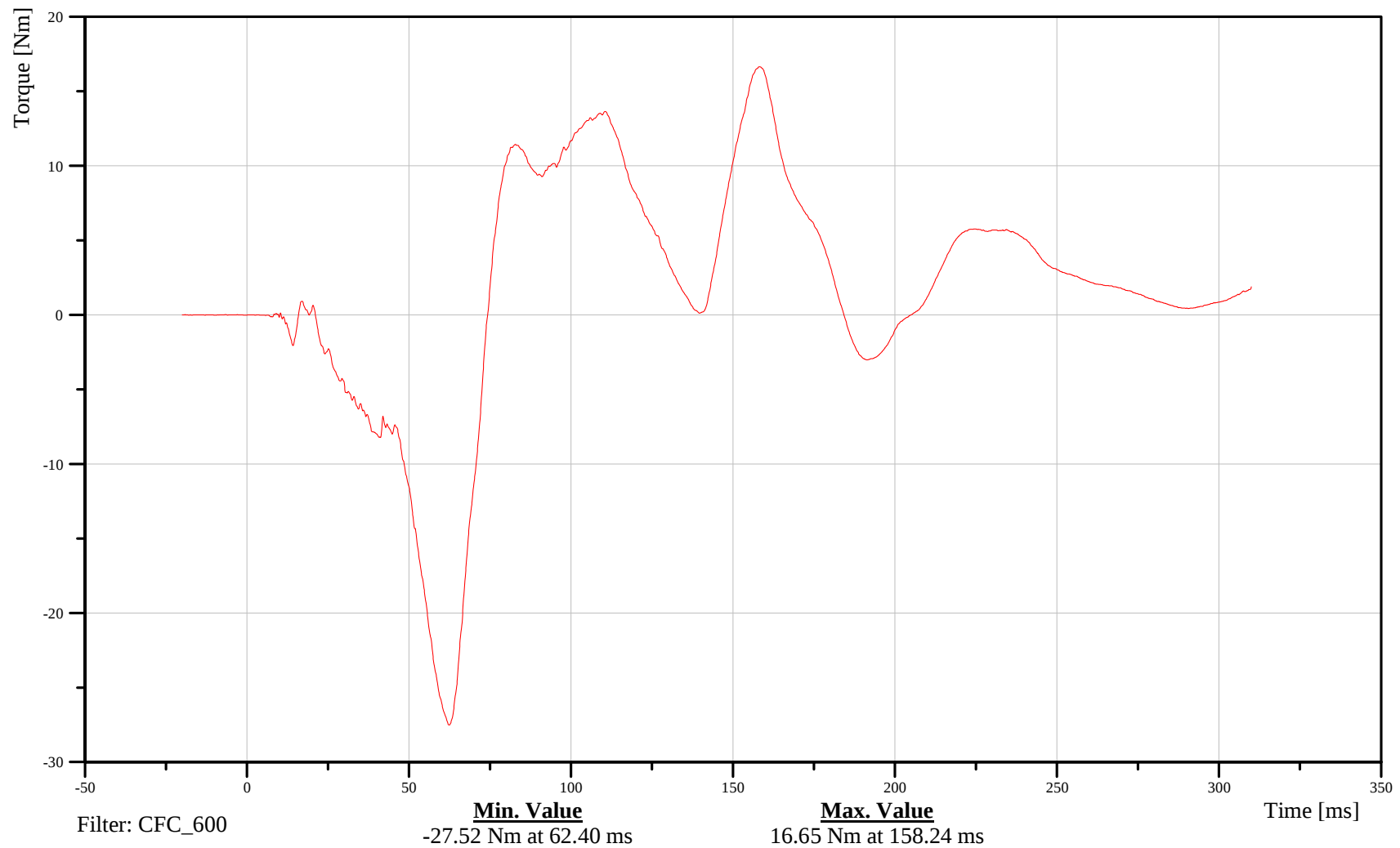
Date: 01/03/2007
Time: 15:44

DRIVER NECK MOMENT ABOUT Y AXIS

Customer: NHTSA
Test Number: C70202

11NECKUP00SHMOYB

TRC Inc. Test Lab: CTF
Test Number: 070103



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56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

DRIVER NECK MOMENT ABOUT Z AXIS

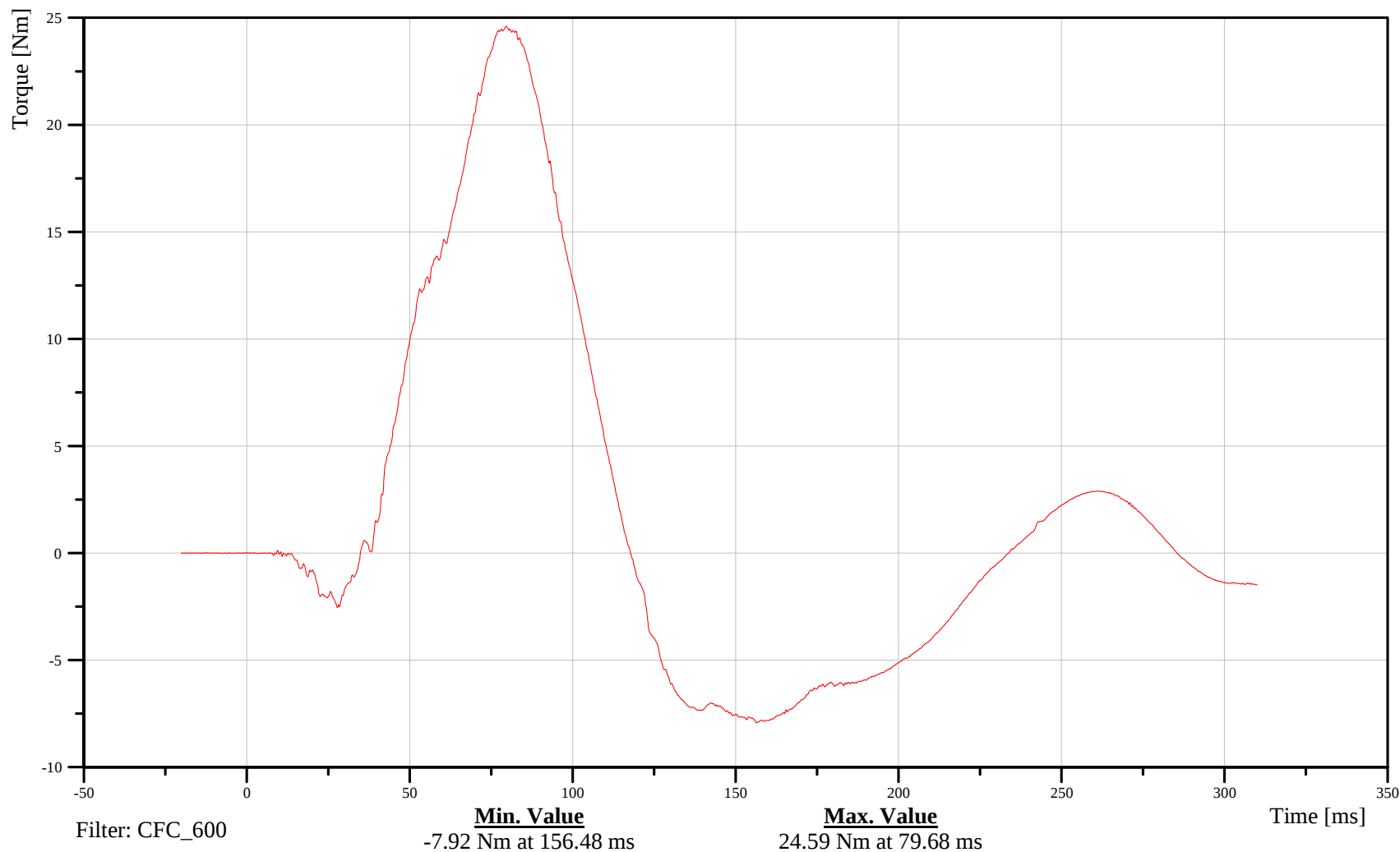
Customer: NHTSA

Test Number: C70202

11NECKUP00SHMOZB

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge Neck Moment about the Occipital Condyle (NECK OM)

Date: 01/03/2007
Time: 15:44

Customer: NHTSA

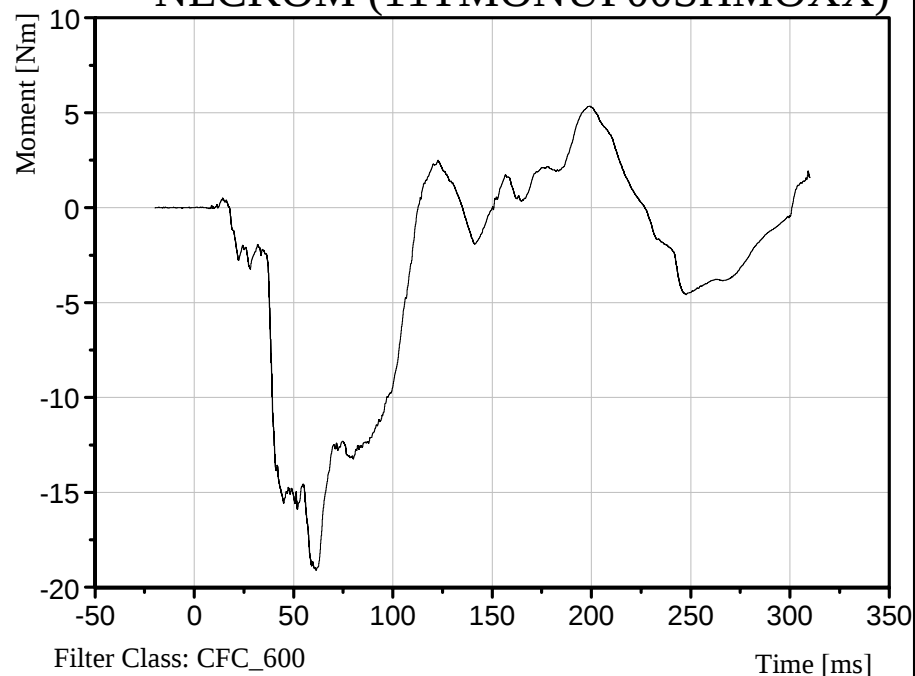
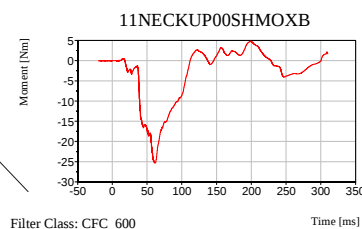
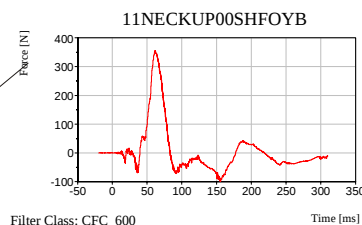
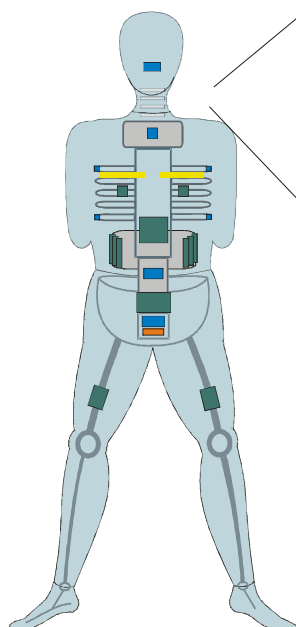
Test Number: C70202

Test Orientation = Side

TRC Inc. Test Lab: CTF

Test Number: 070103

NECKOM (11TMONUP00SHMOXX)



Dummy: HIII/SID

Seating Position:

Driver

Neck OM Source Code: $M_x + (D \cdot F_y)$

[Max.] 5.35 Nm at 199.28 ms

[Min.] -19.08 Nm at 61.28 ms

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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

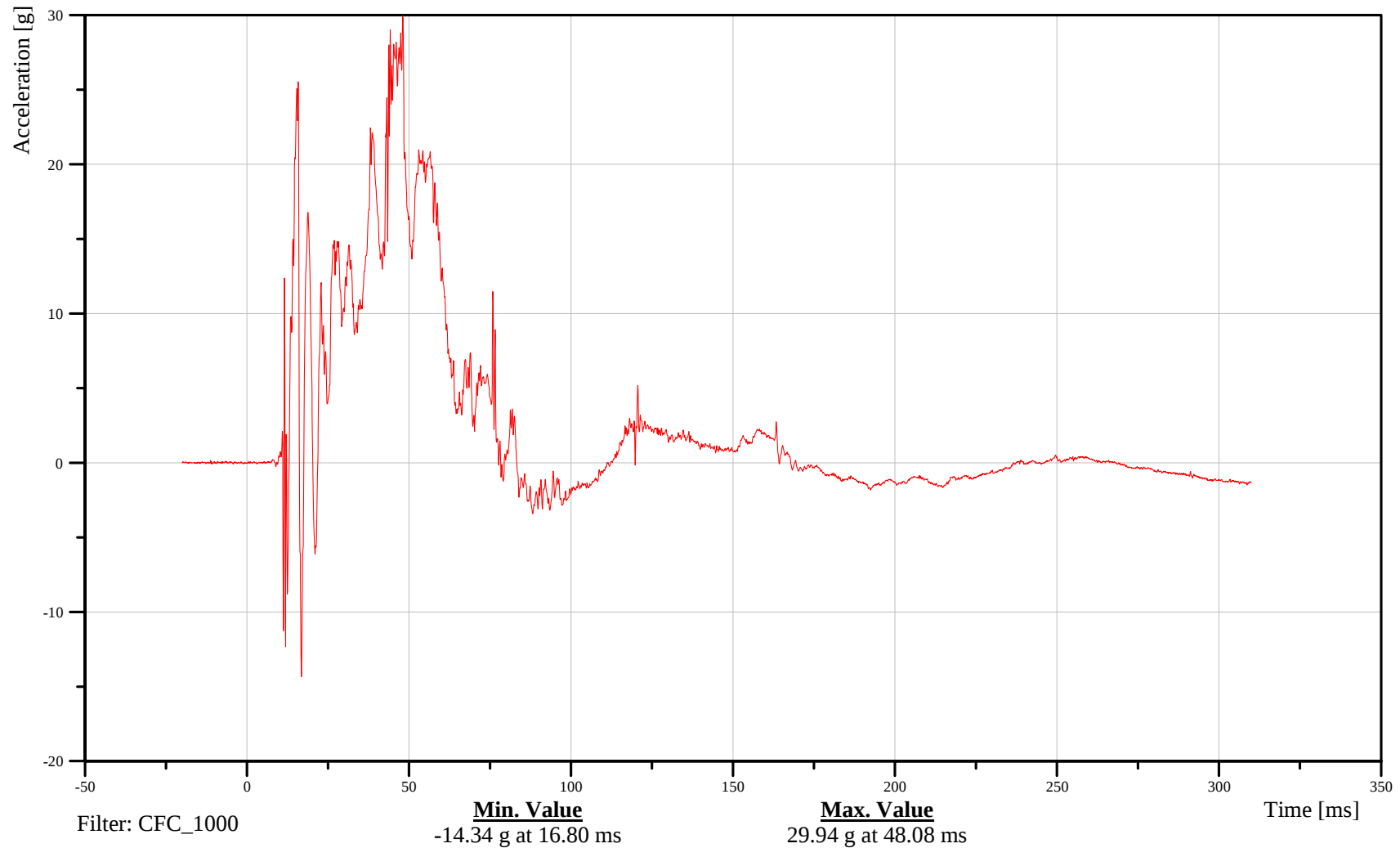
Date: 01/03/2007
Time: 15:44

DRIVER UPPER RIB Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSLU00SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

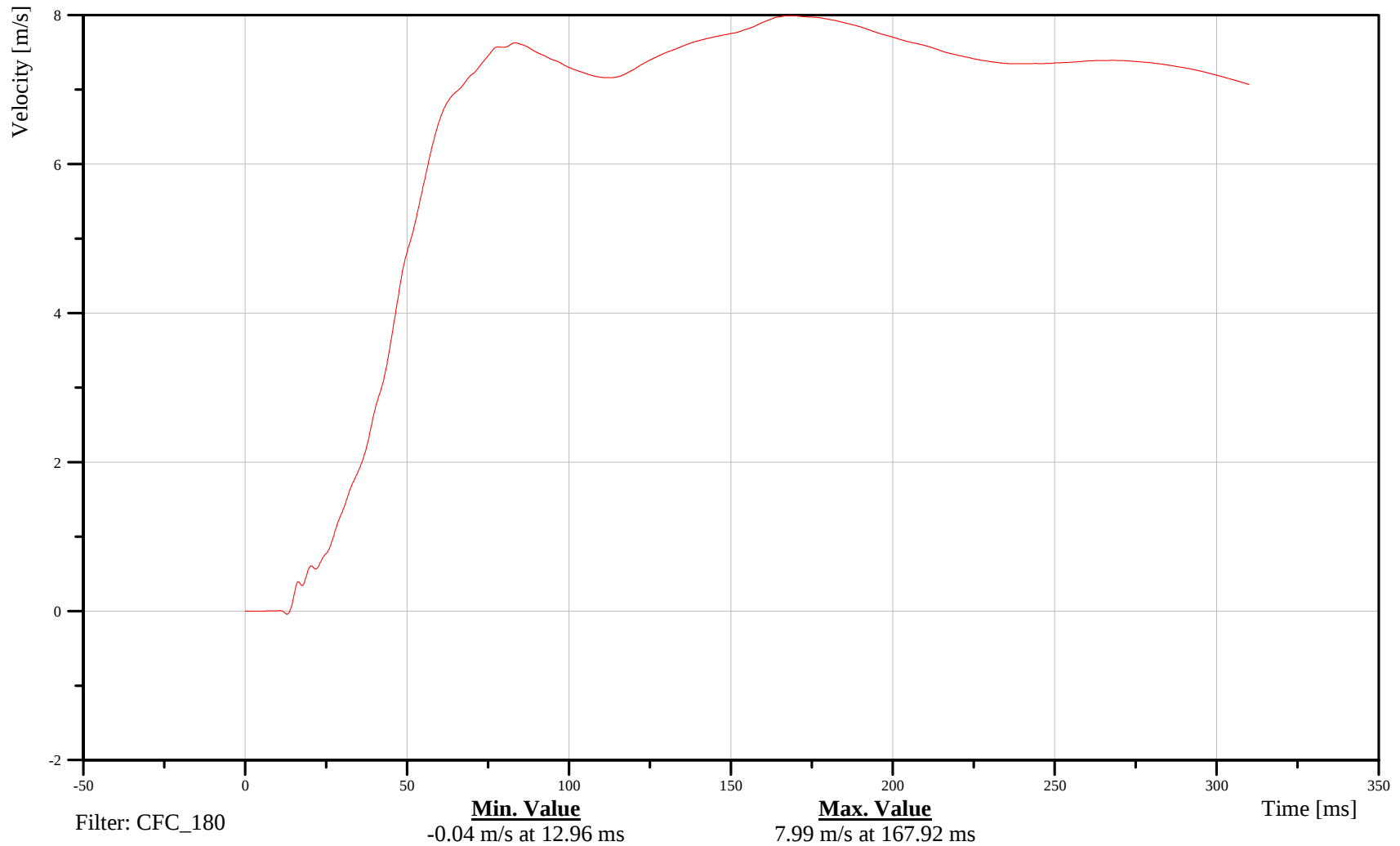
Date: 01/03/2007
Time: 15:44

DRIVER UPPER RIB Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11RIBSLU00SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

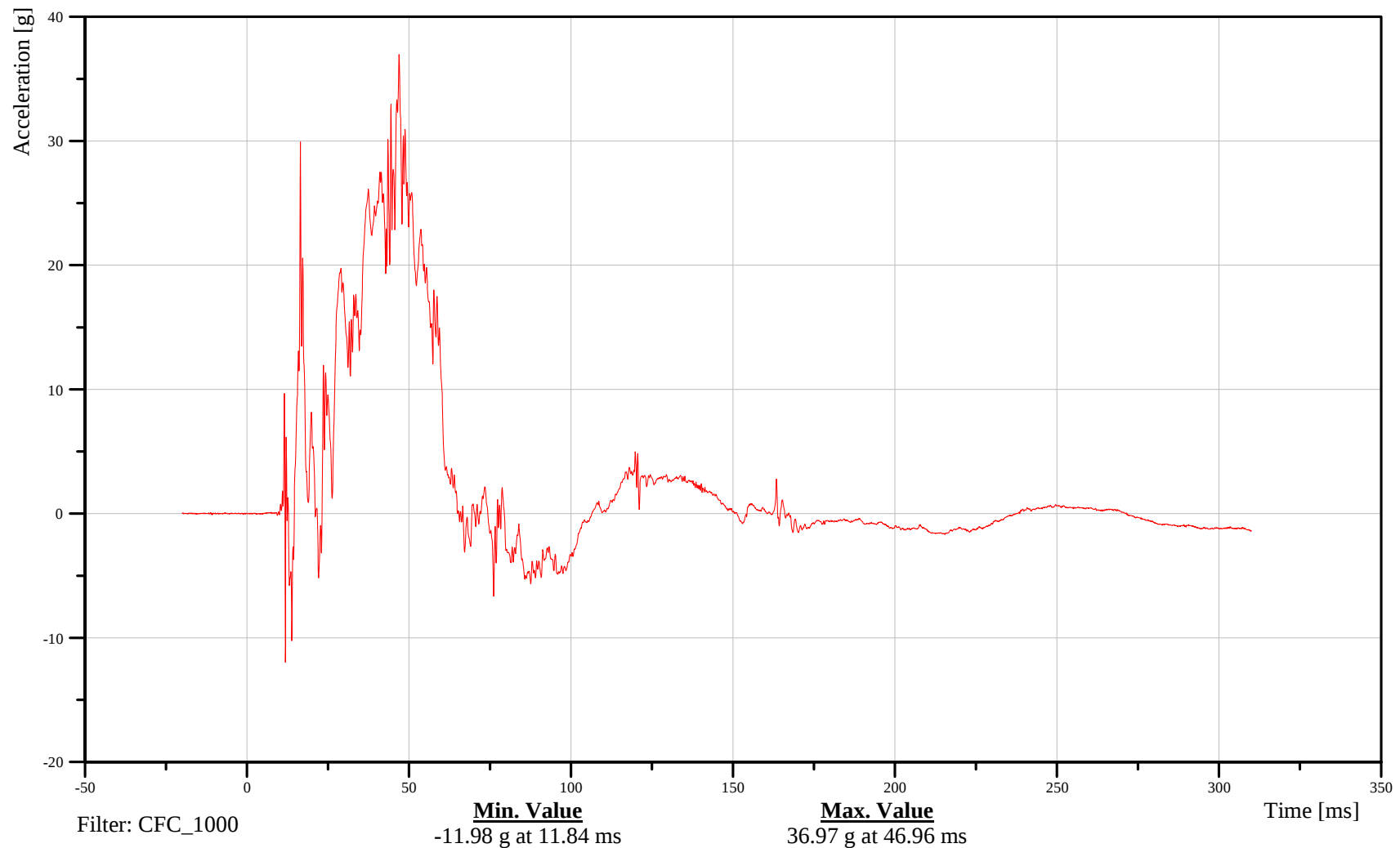
Date: 01/03/2007
Time: 15:44

DRIVER LOWER RIB Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSLL00SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

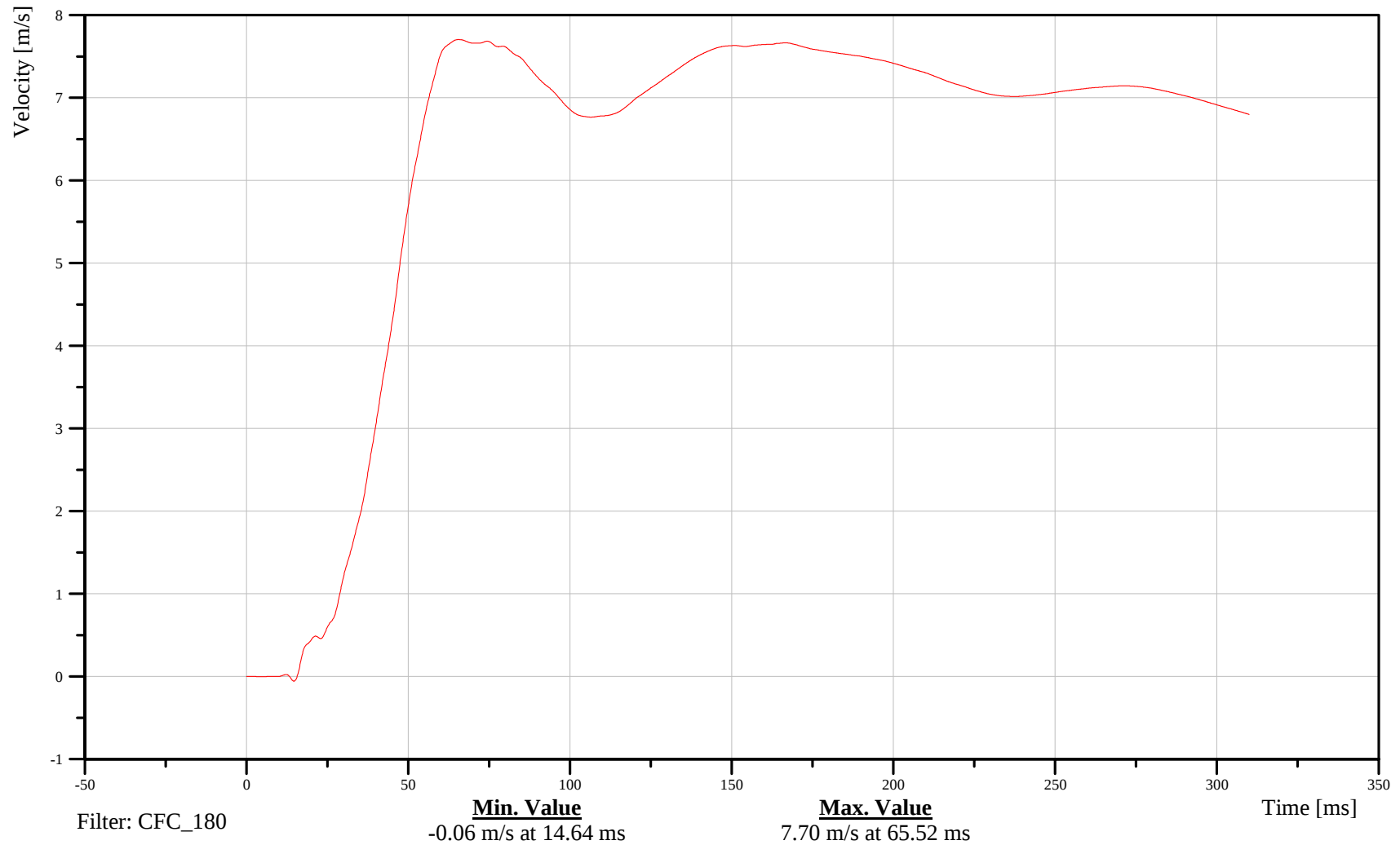
Date: 01/03/2007
Time: 15:44

DRIVER LOWER RIB Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11RIBSLL00SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-27

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

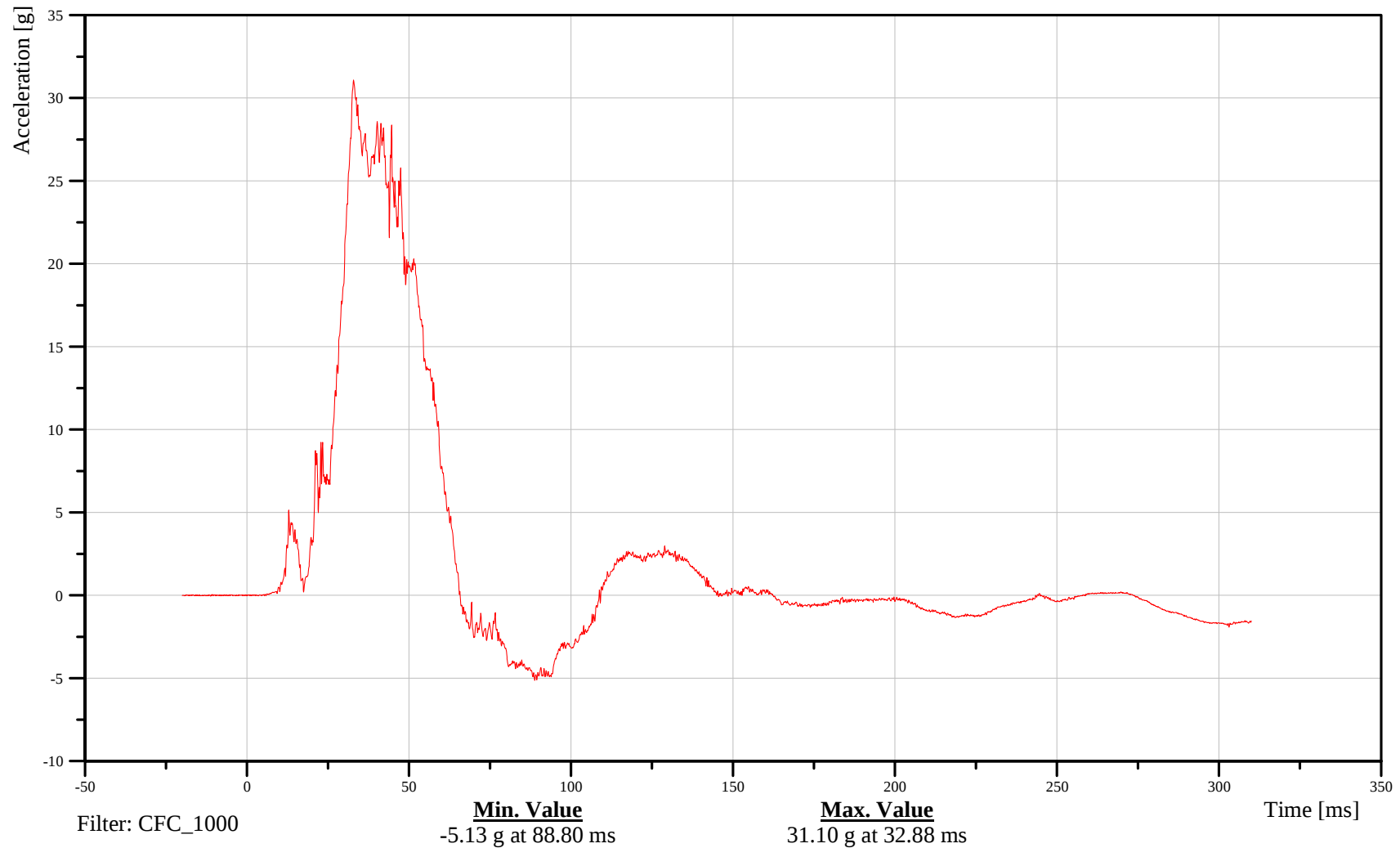
Date: 01/03/2007
Time: 15:44

DRIVER LOWER SPINE Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11SPIN1200SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



B-28

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

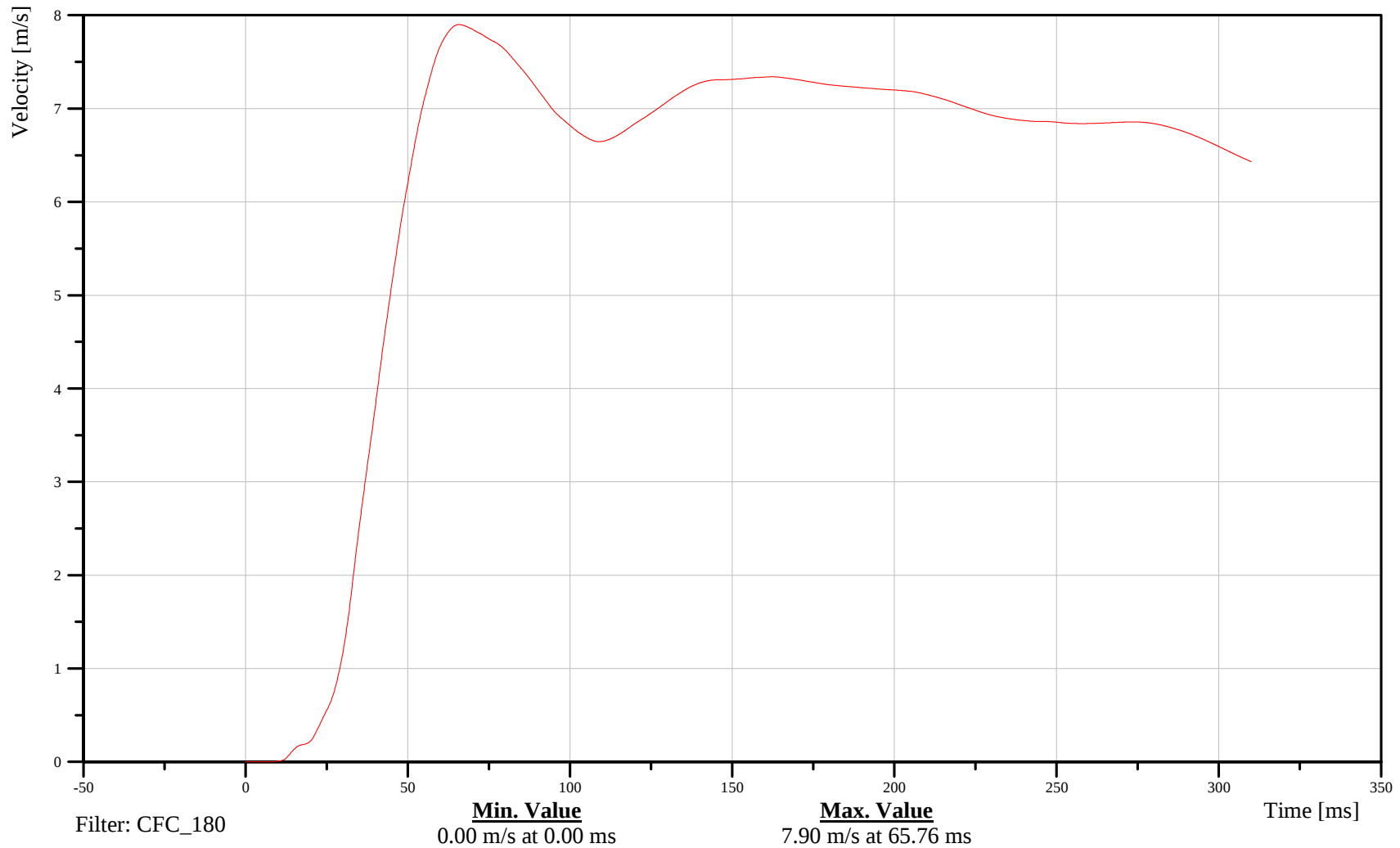
Date: 01/03/2007
Time: 15:44

DRIVER LOWER SPINE Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11SPIN1200SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-29

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

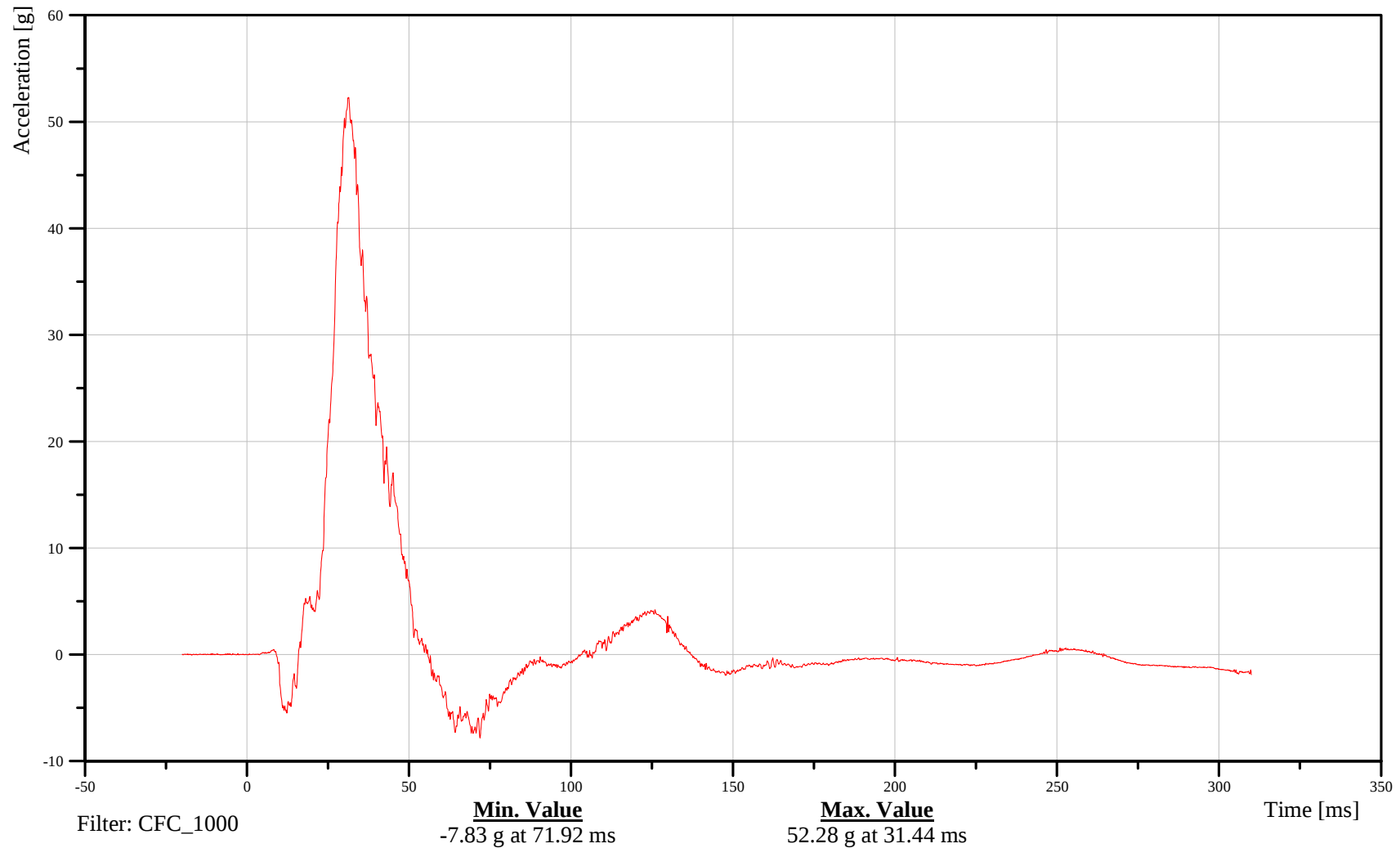
Date: 01/03/2007
Time: 15:44

DRIVER PELVIS Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11PELVCG00SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



B-30

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

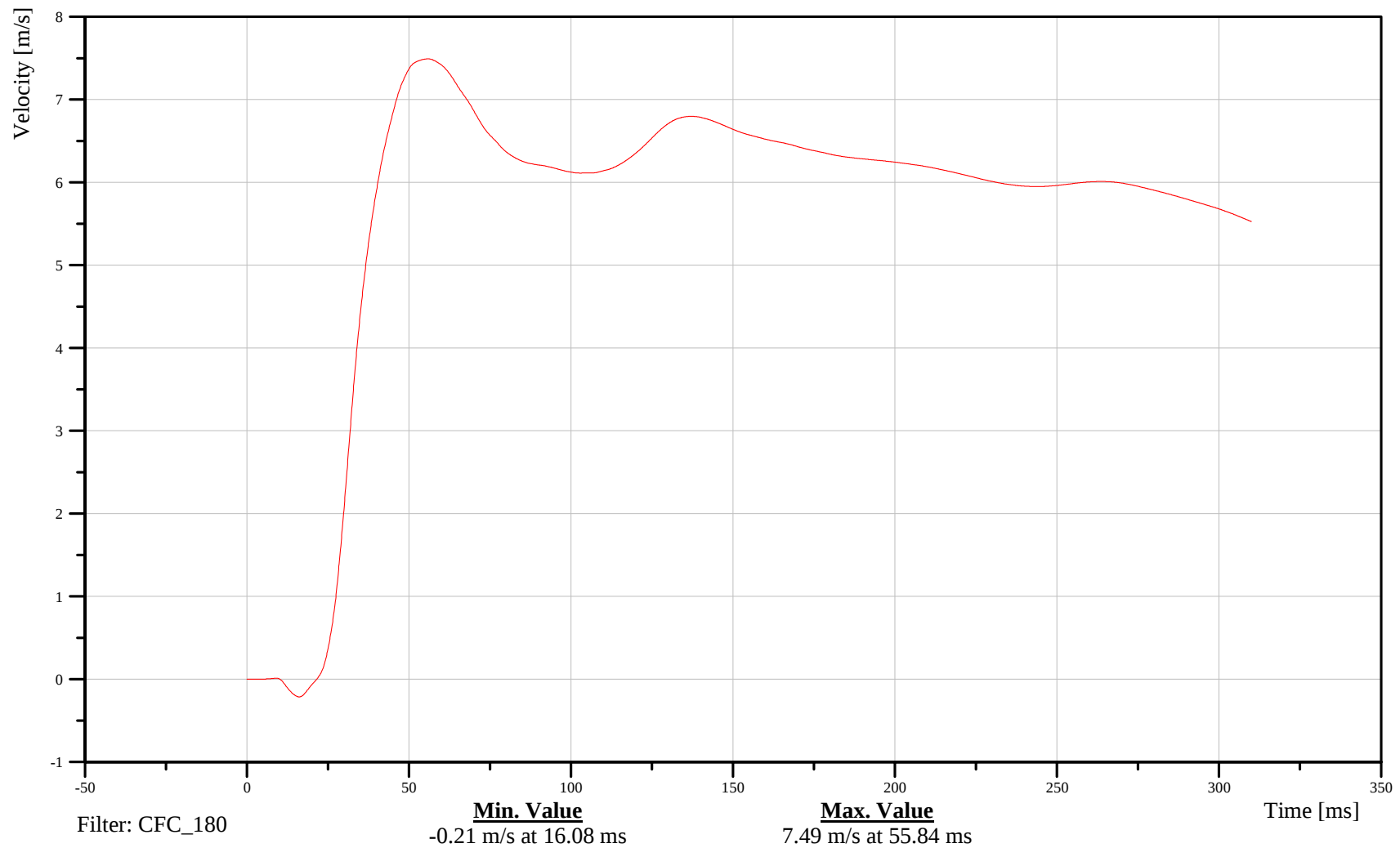
Date: 01/03/2007
Time: 15:44

DRIVER PELVIS Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11PELVCG00SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-31

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

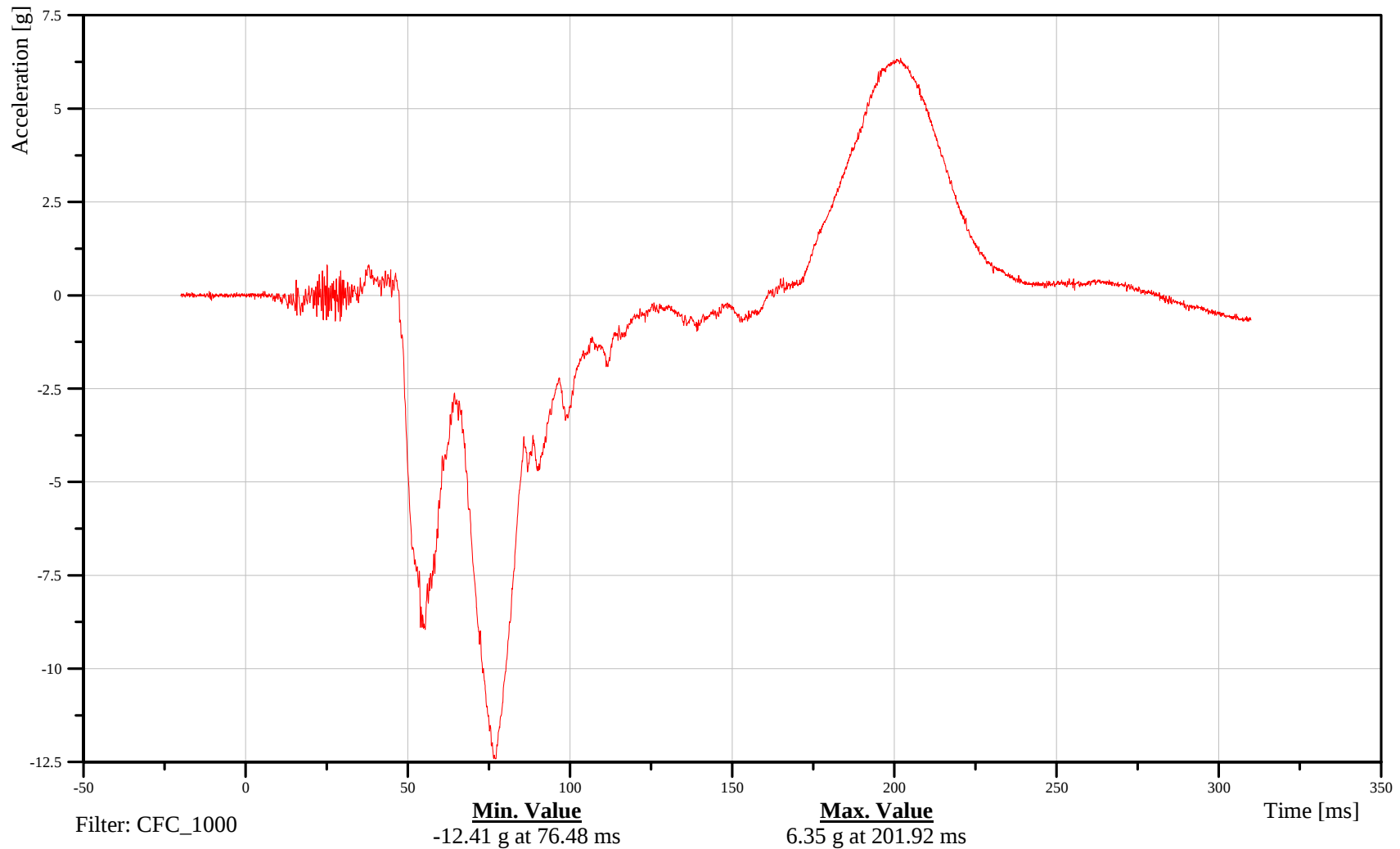
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD X-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14HEADCG00SHACXA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER HEAD X-AXIS VELOCITY

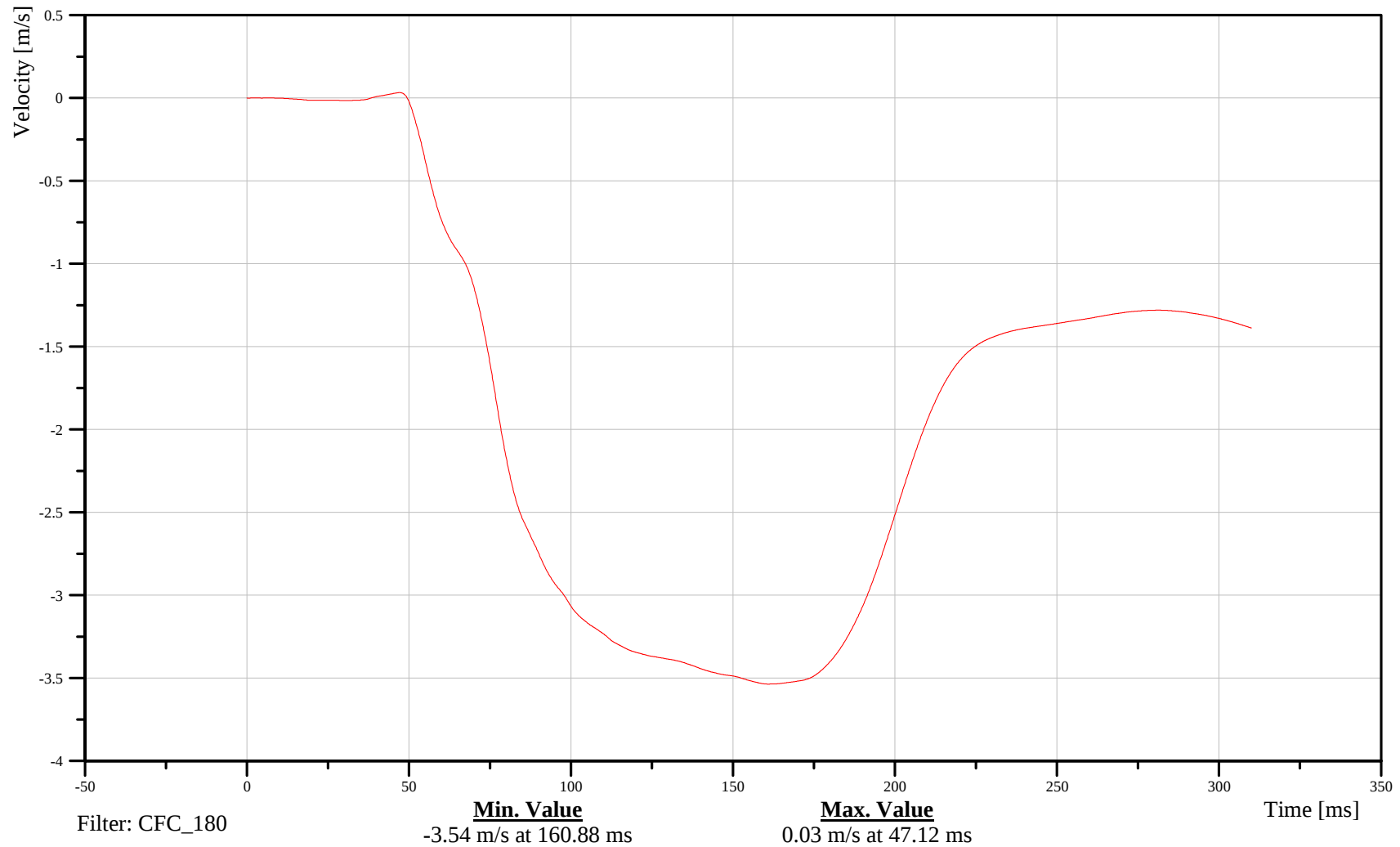
Customer: NHTSA

Test Number: C70202

14HEADCG00SHVEXC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-33

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

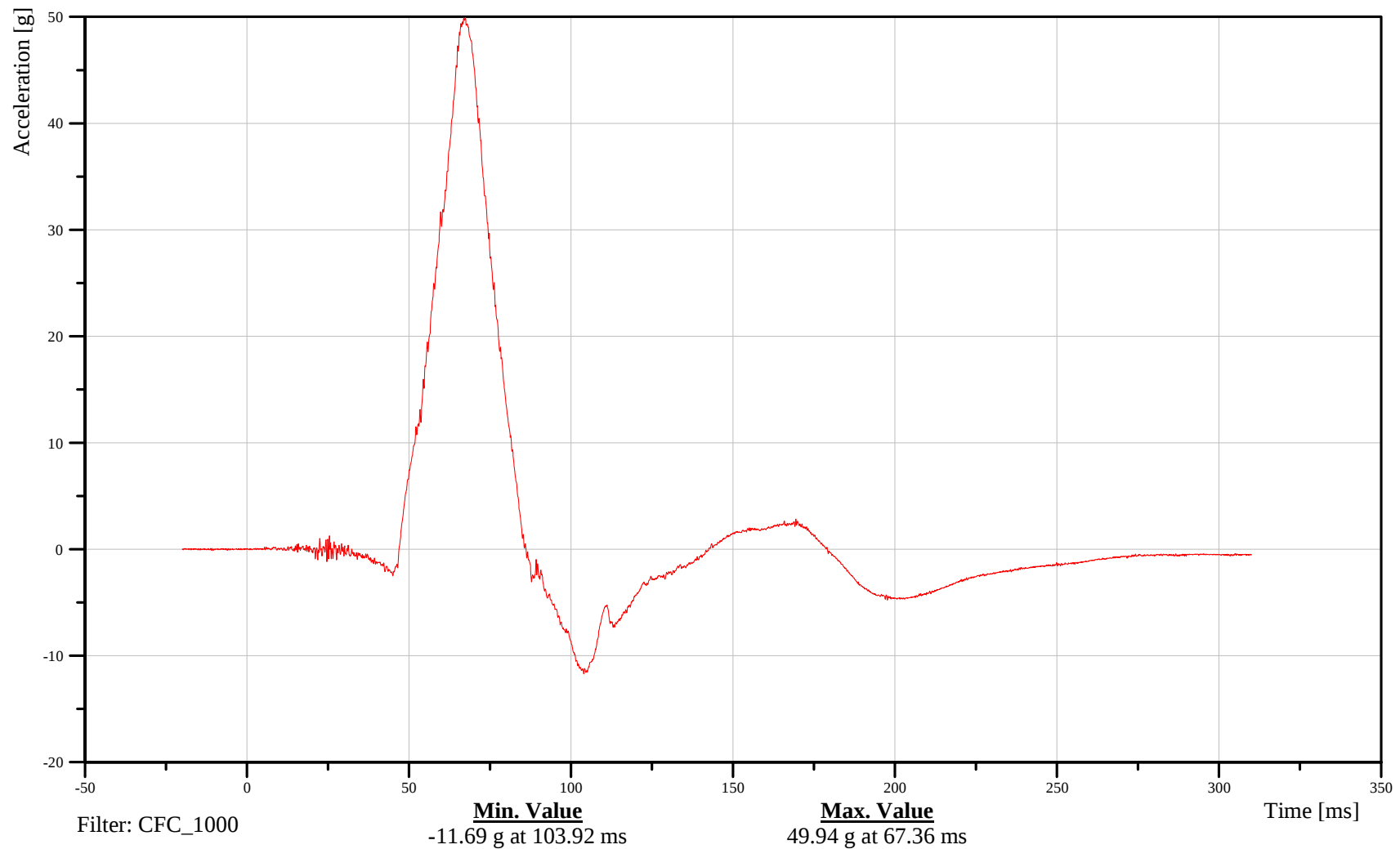
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14HEADCG00SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER HEAD Y-AXIS VELOCITY

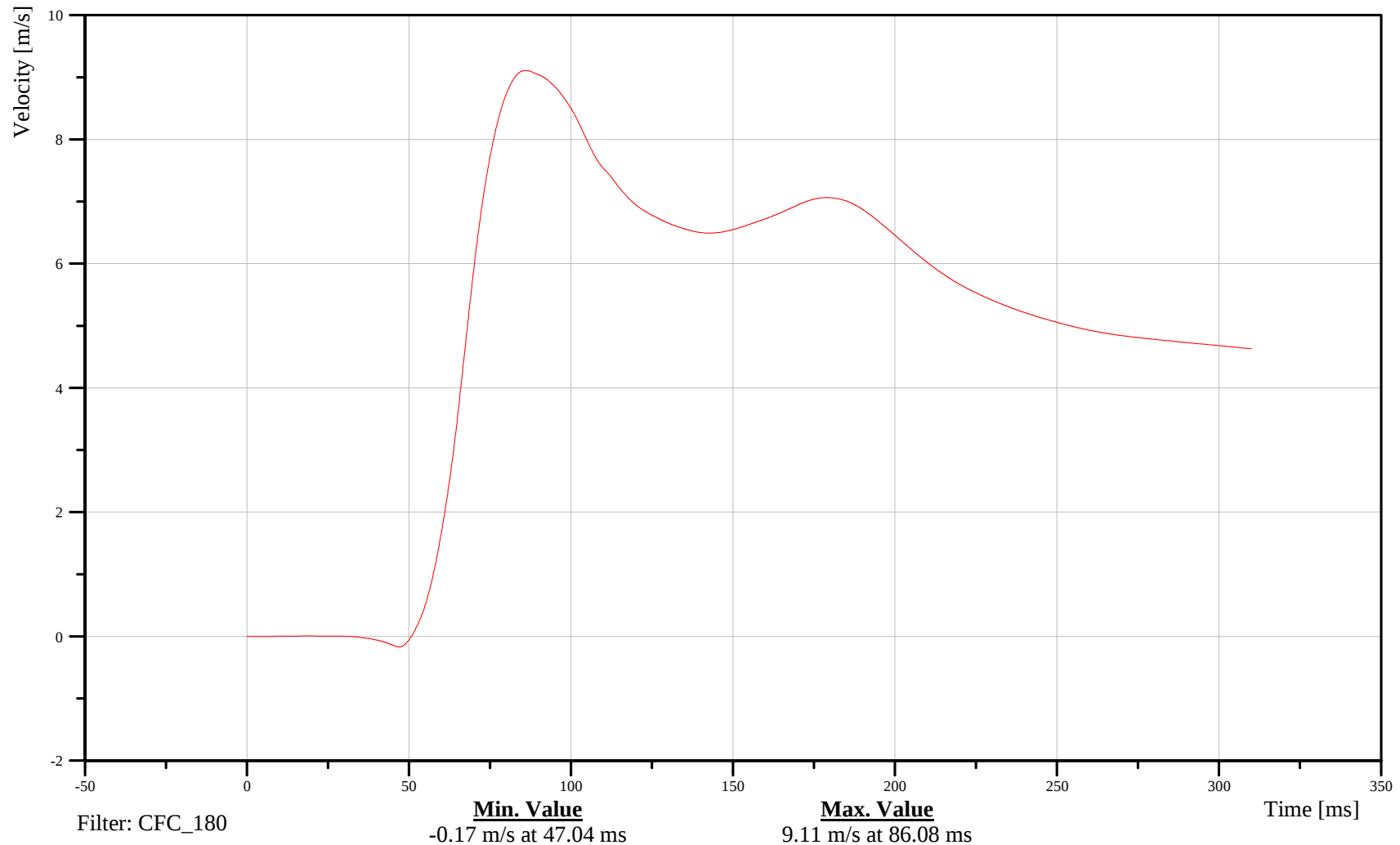
Customer: NHTSA

Test Number: C70202

14HEADCG00SHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-35

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

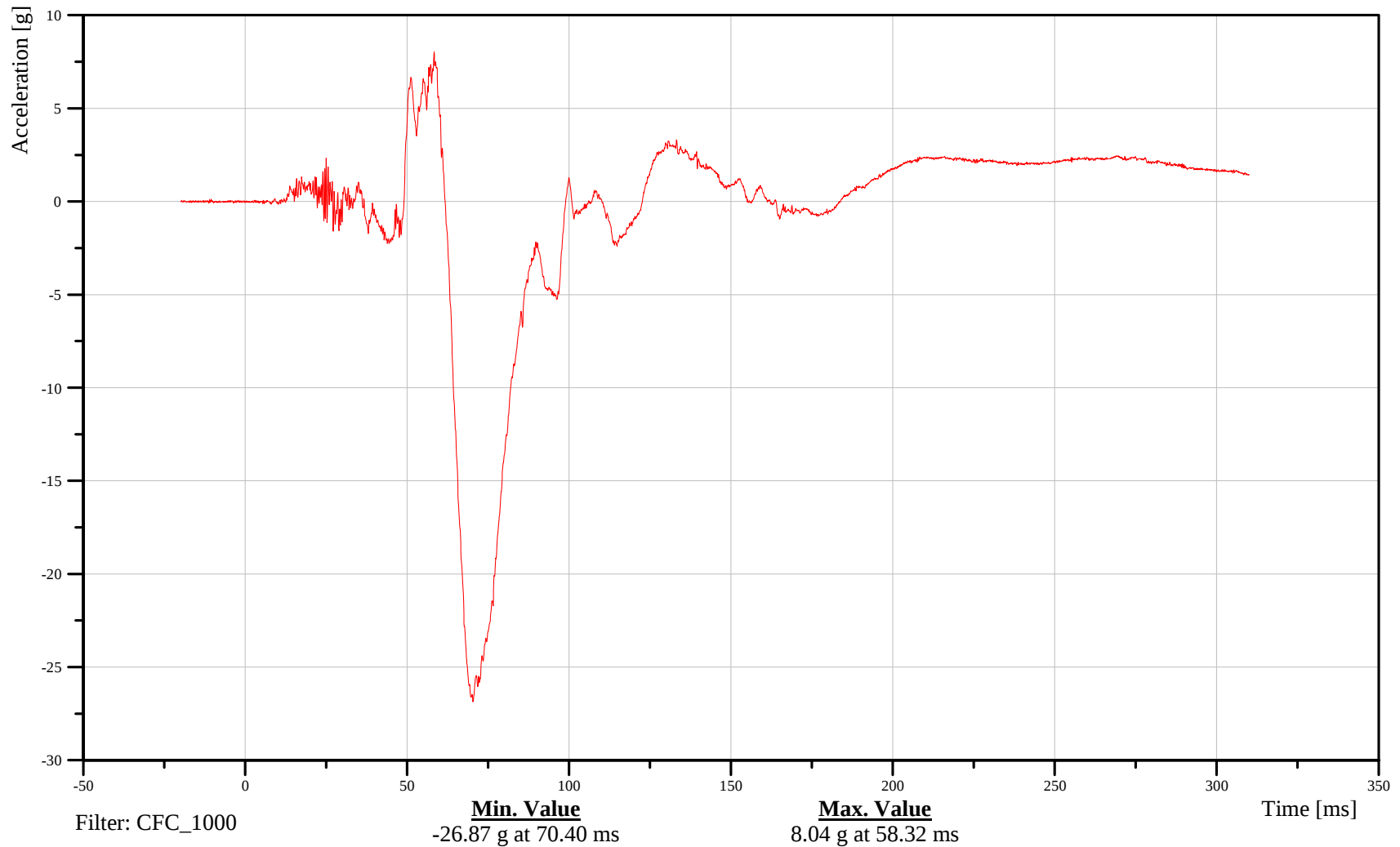
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD Z-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14HEADCG00SHACZA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER HEAD Z-AXIS VELOCITY

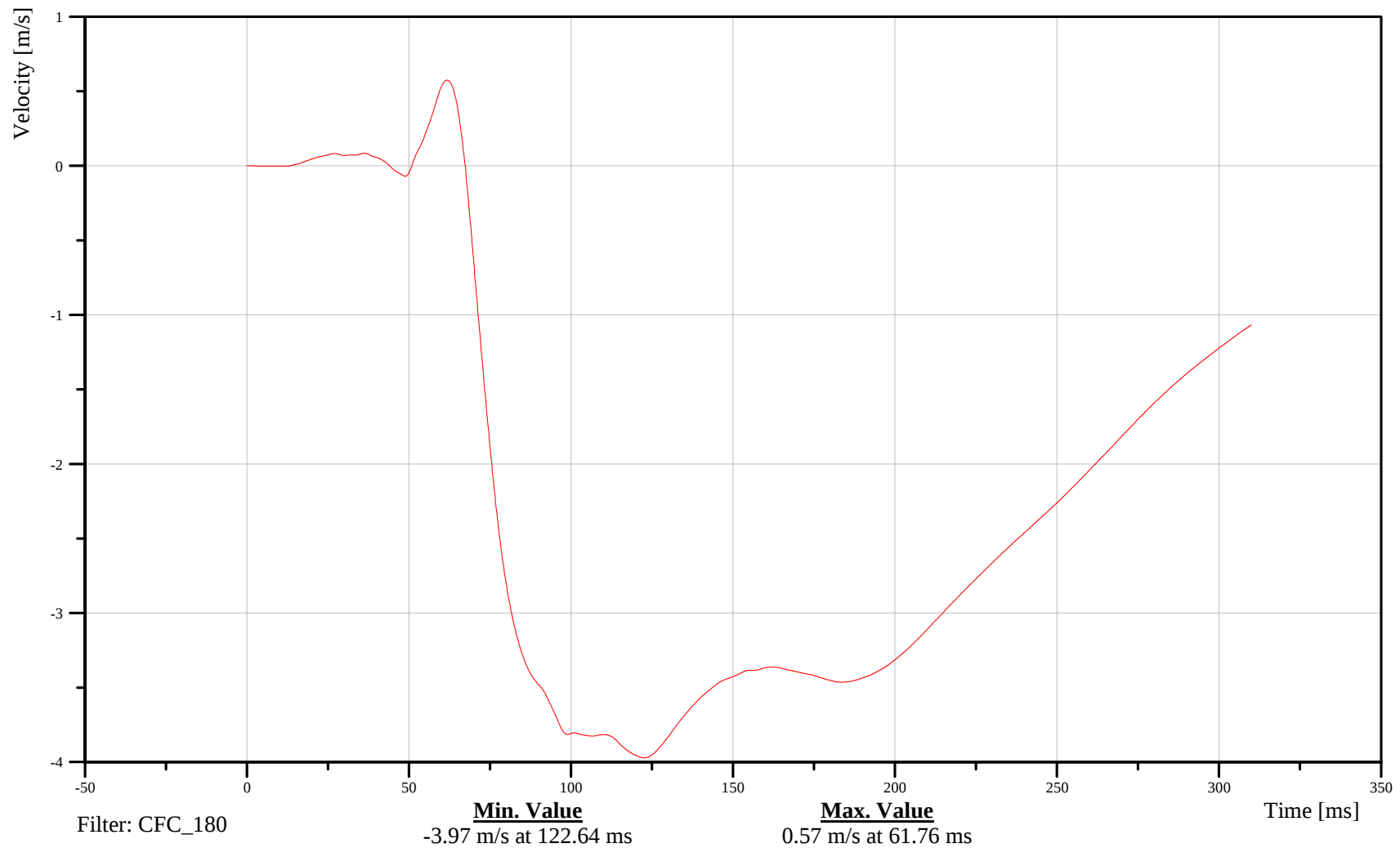
Customer: NHTSA

Test Number: C70202

14HEADCG00SHVEZC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-37

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

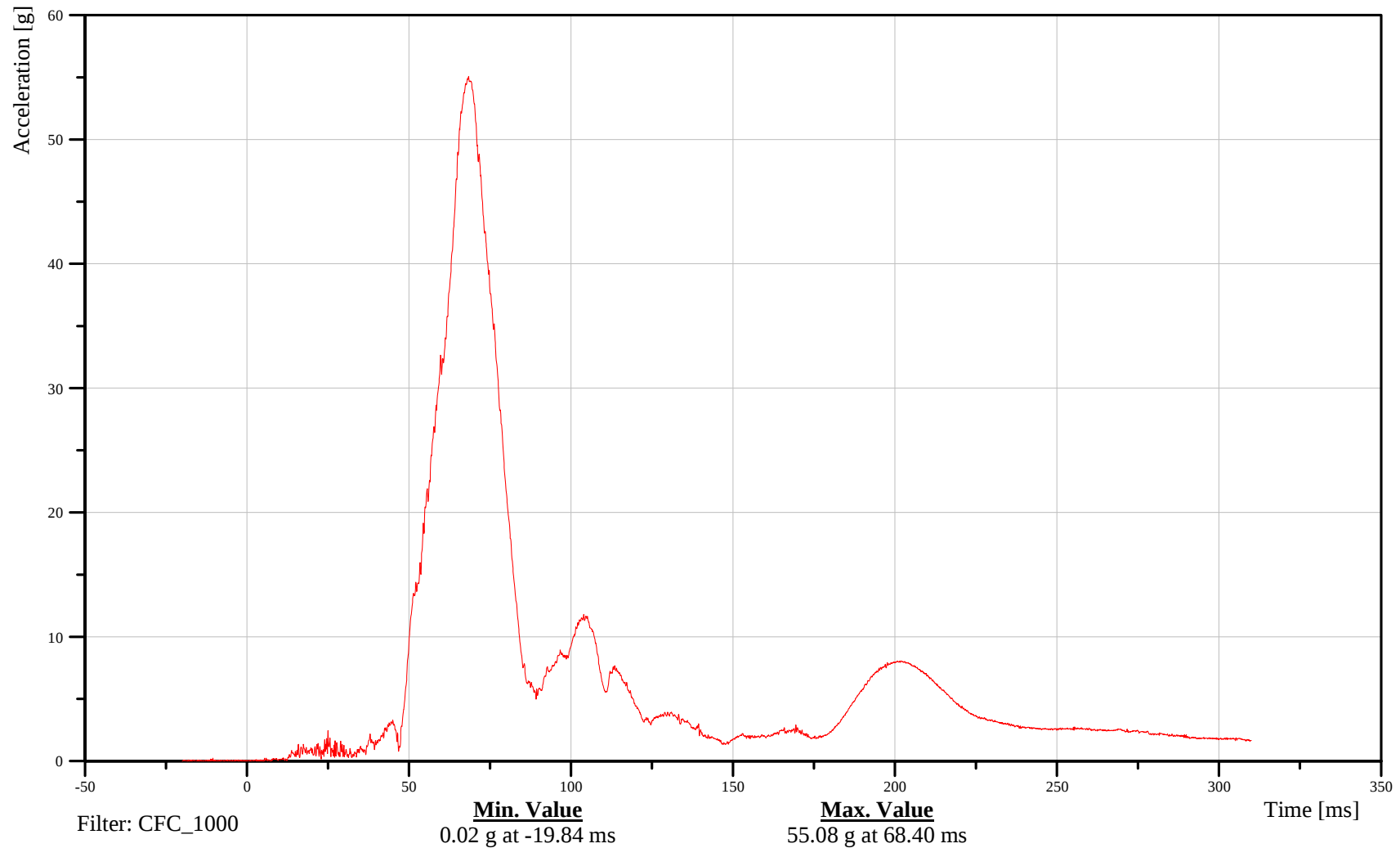
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

14HEADCG00SHACRA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER NECK X-AXIS SHEAR FORCE

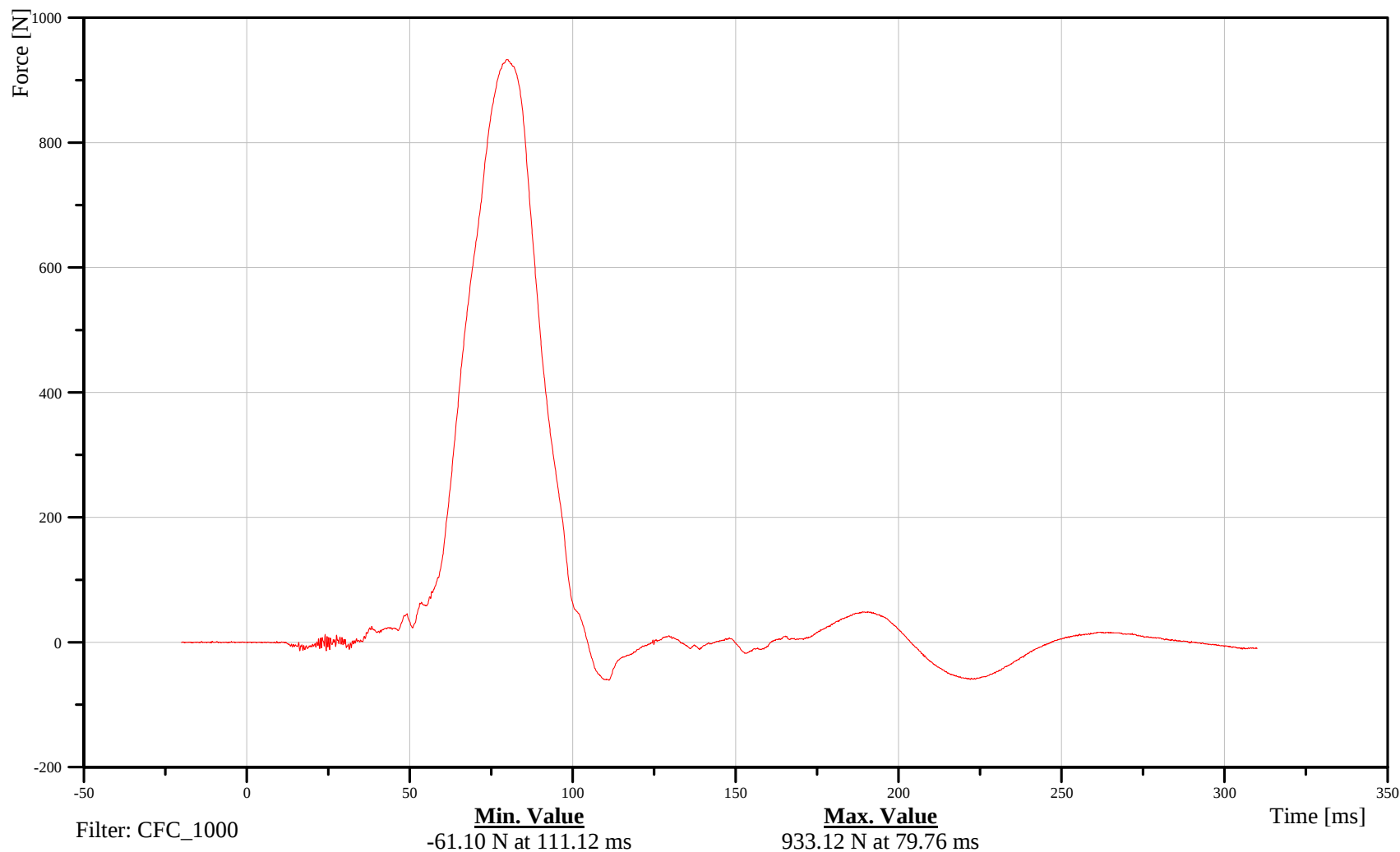
Customer: NHTSA

Test Number: C70202

14NECKUP00SHFOXA

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER NECK Y-AXIS SHEAR FORCE

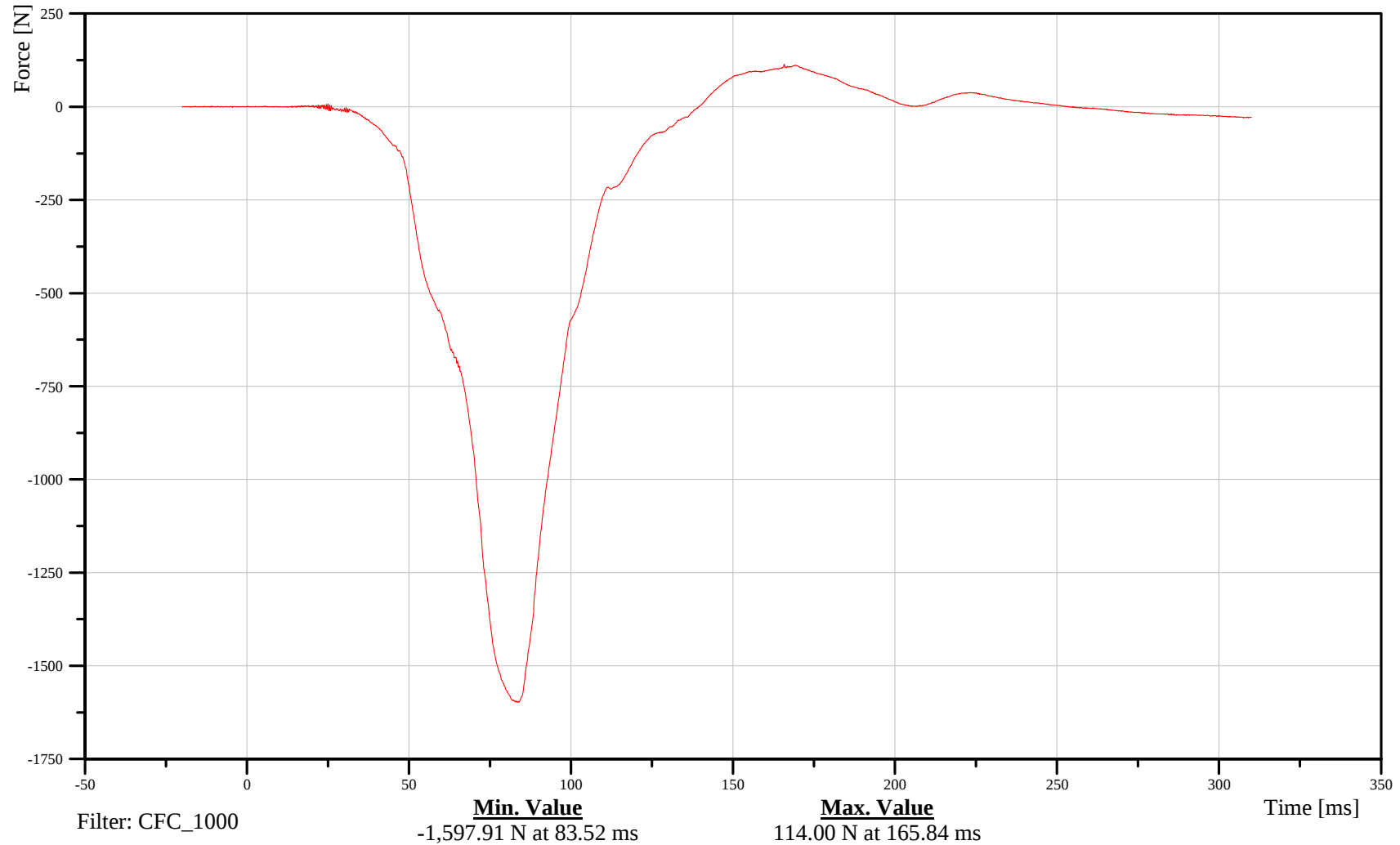
Customer: NHTSA

Test Number: C70202

14NECKUP00SHFOYA

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER NECK Z-AXIS AXIAL FORCE

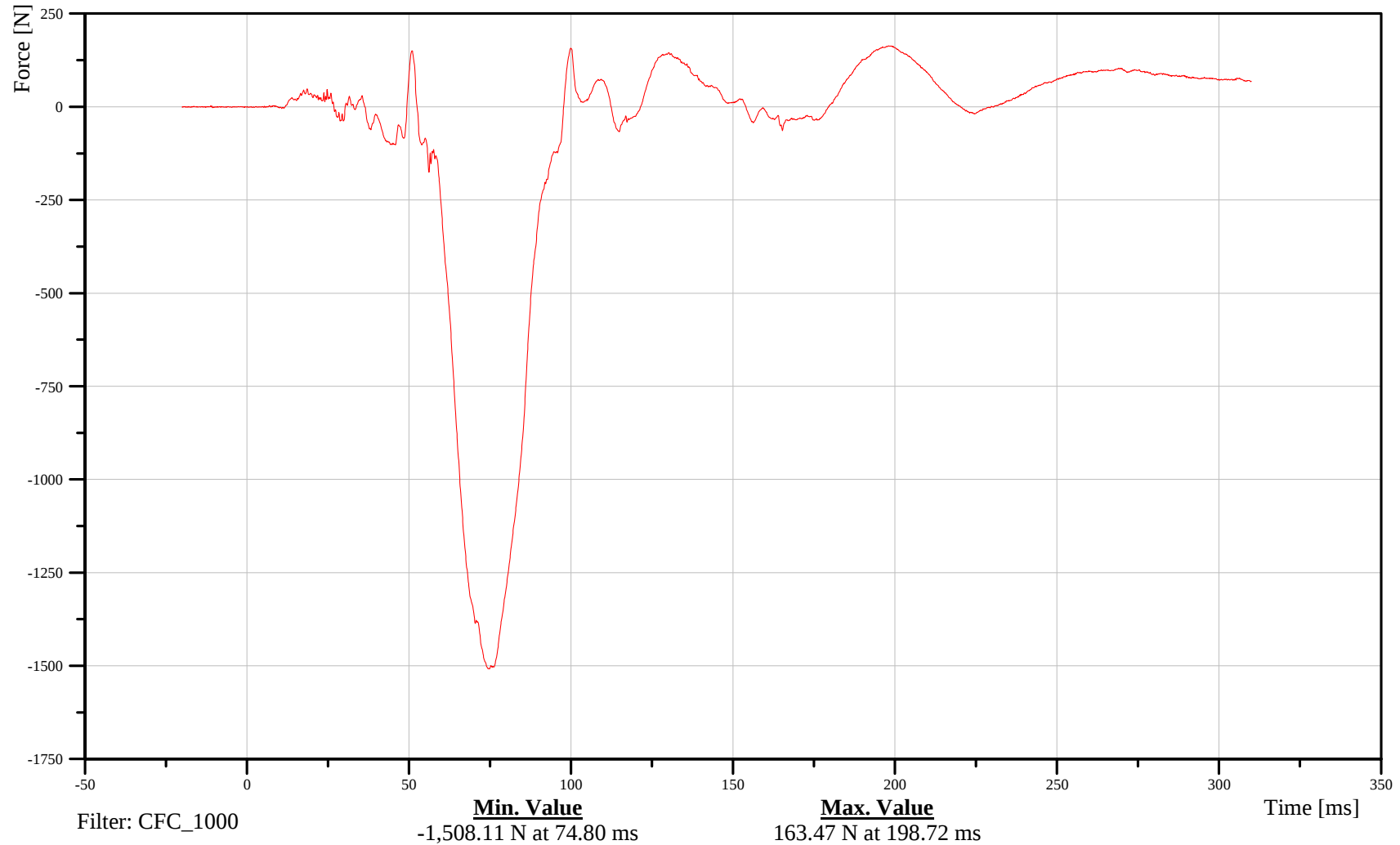
Customer: NHTSA

Test Number: C70202

14NECKUP00SHFOZA

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER NECK MOMENT ABOUT X AXIS

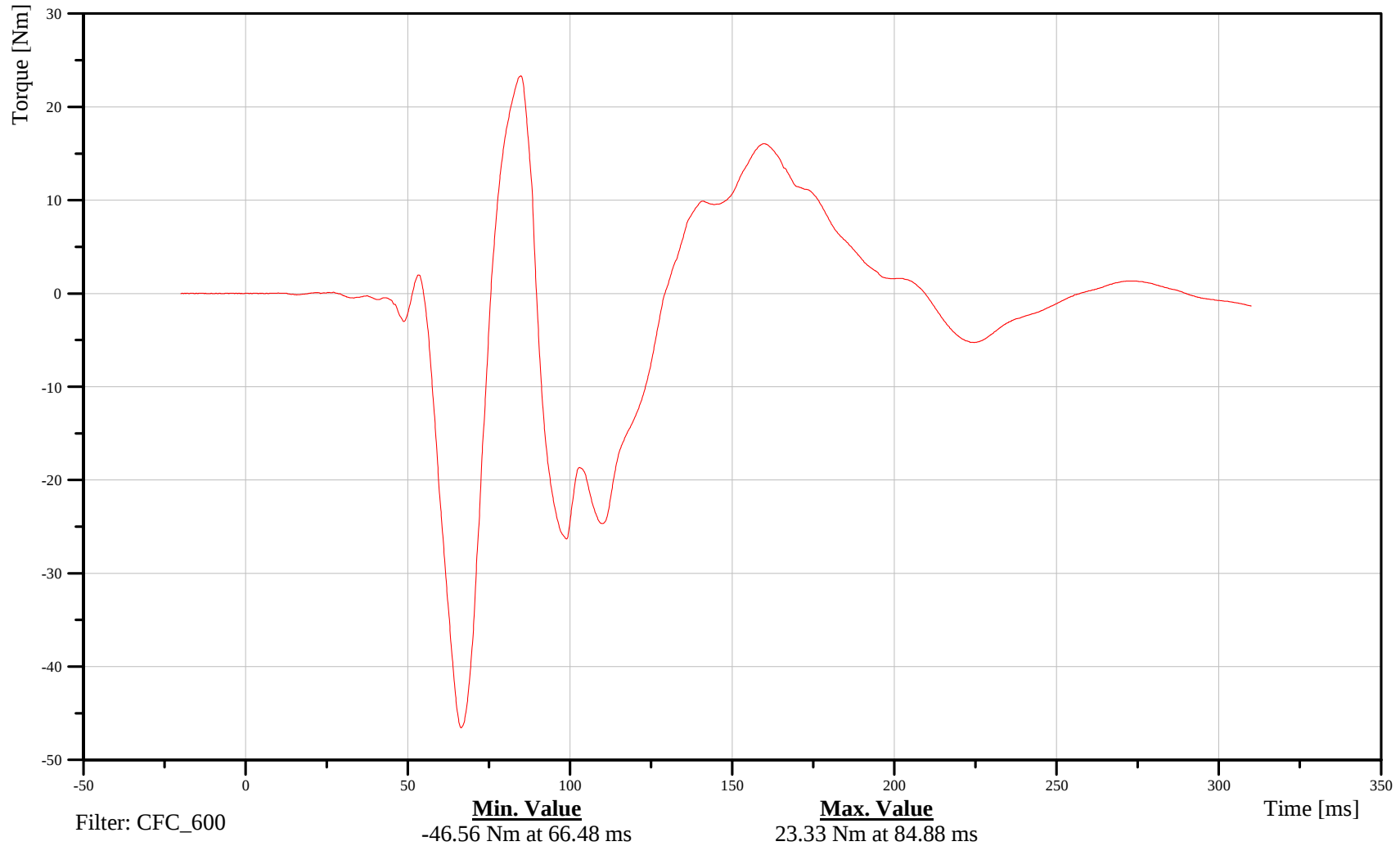
Customer: NHTSA

Test Number: C70202

14NECKUP00SHMOXB

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER NECK MOMENT ABOUT Y AXIS

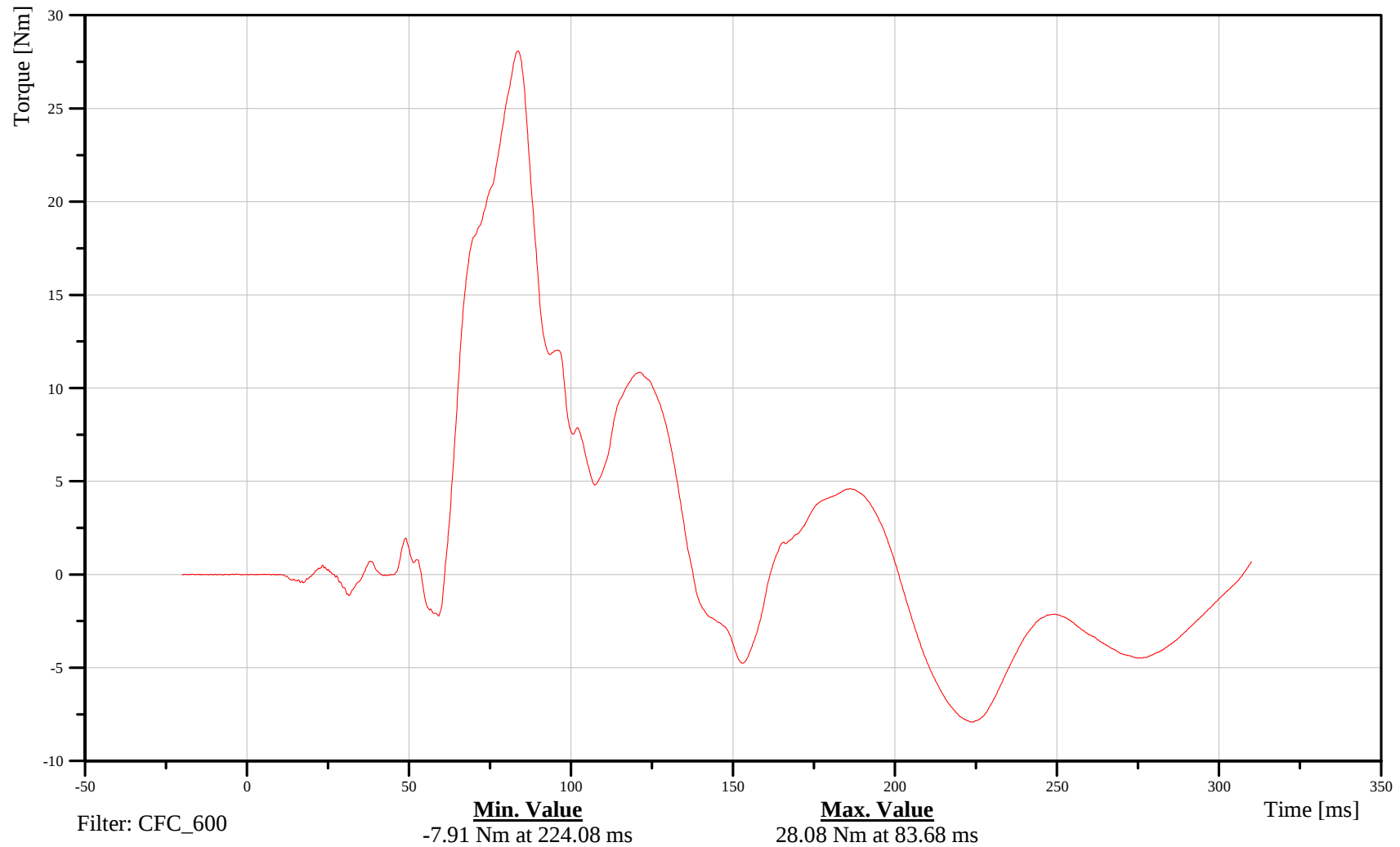
Customer: NHTSA

Test Number: C70202

14NECKUP00SHMOYB

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

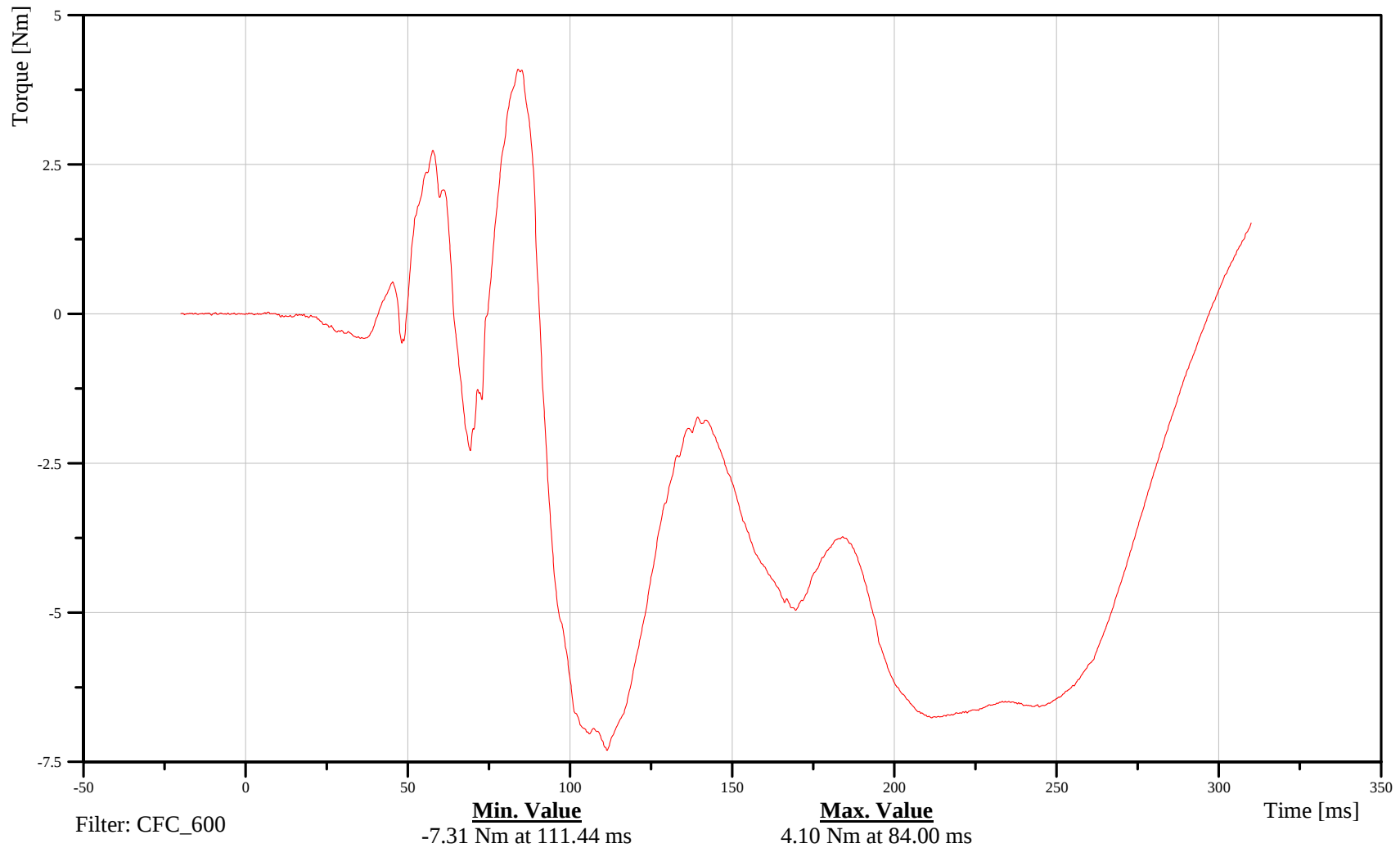
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER NECK MOMENT ABOUT Z AXIS

Customer: NHTSA
Test Number: C70202

14NECKUP00SHMOZB

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge Neck Moment about the Occipital Condyle (NECK OM)

Date: 01/03/2007
Time: 15:44

Customer: NHTSA

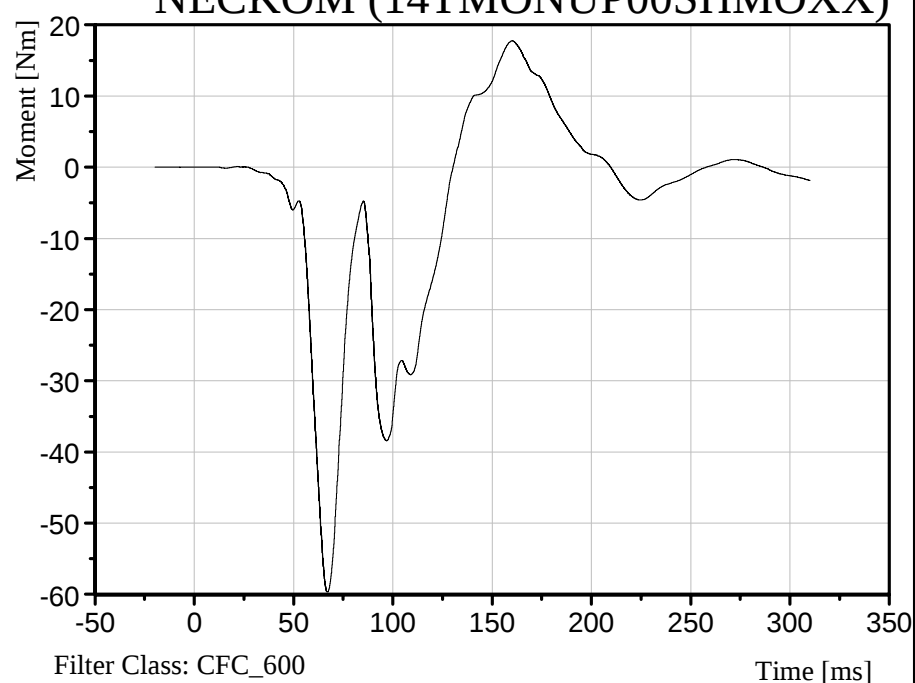
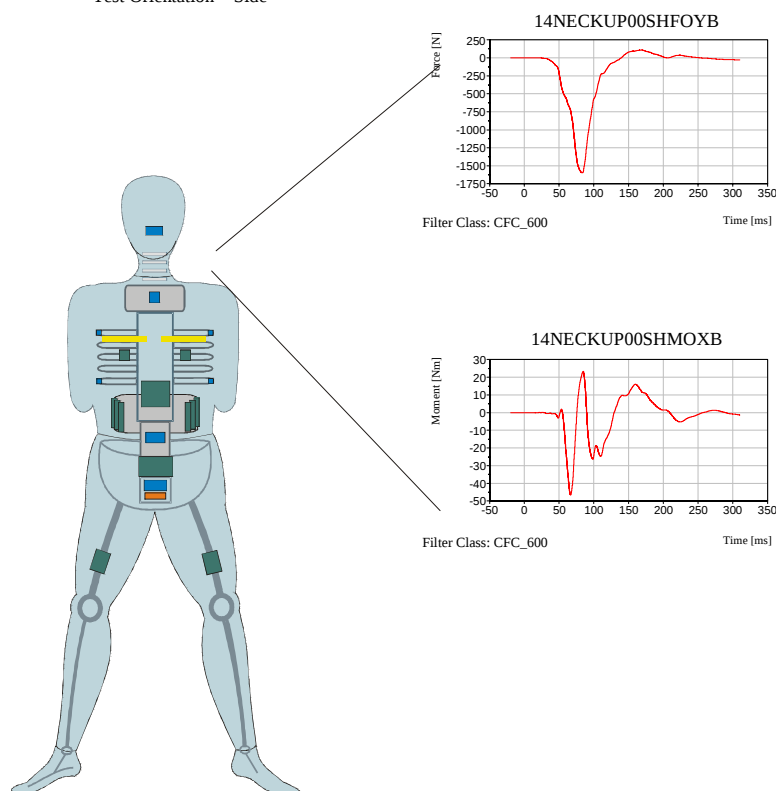
Test Number: C70202

Test Orientation = Side

TRC Inc. Test Lab: CTF

Test Number: 070103

NECKOM (14TMONUP00SHMOXX)



Dummy: HIII/SID

Seating Position:

Left Rear Passenger

Neck OM Source Code: $M_x + (D \cdot F_y)$

[Max.] 17.76 Nm at 160.08 ms

[Min.] -59.66 Nm at 67.12 ms

B-45

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

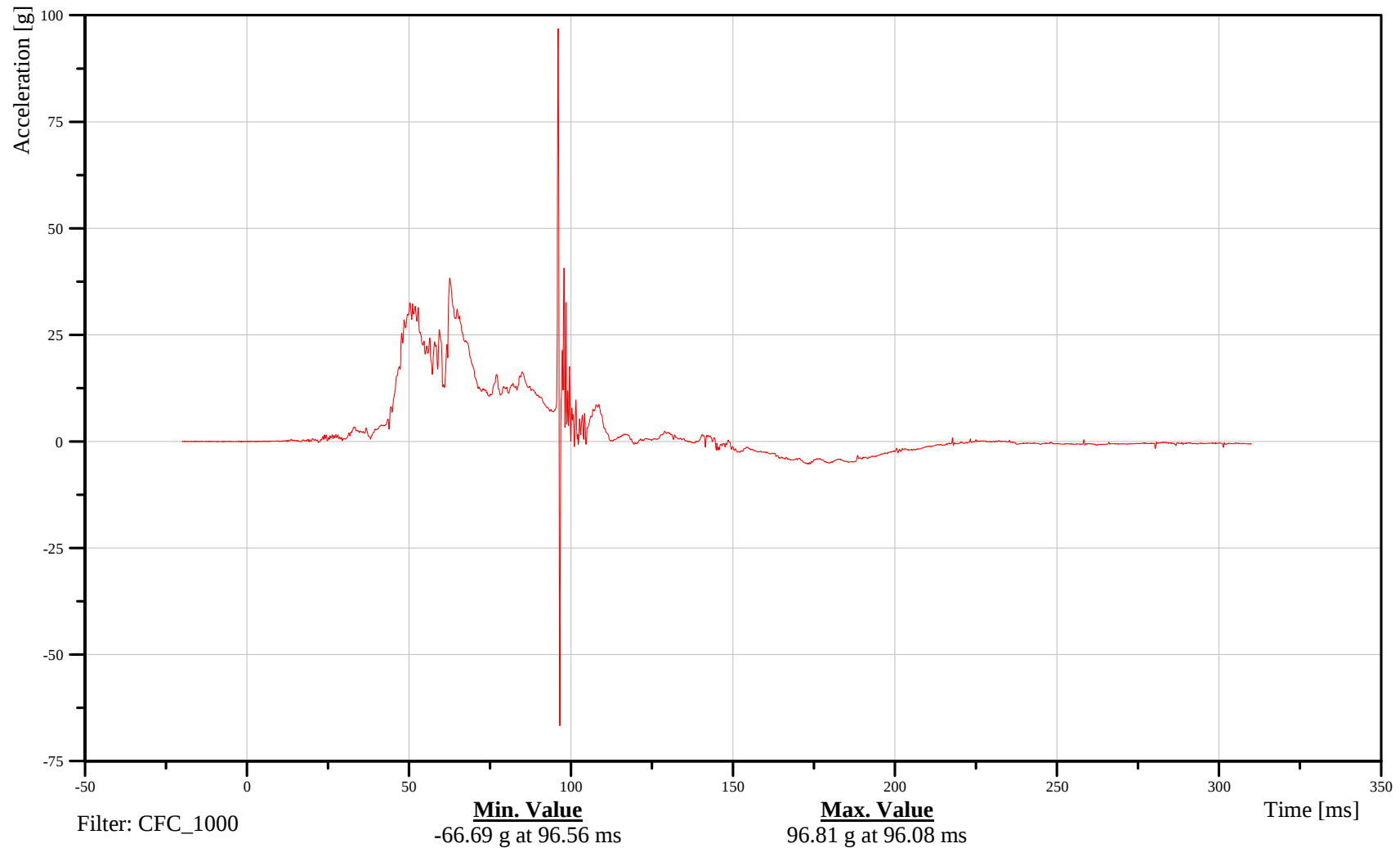
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14RIBSLU00SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER UPPER RIB Y-AXIS VELOCITY

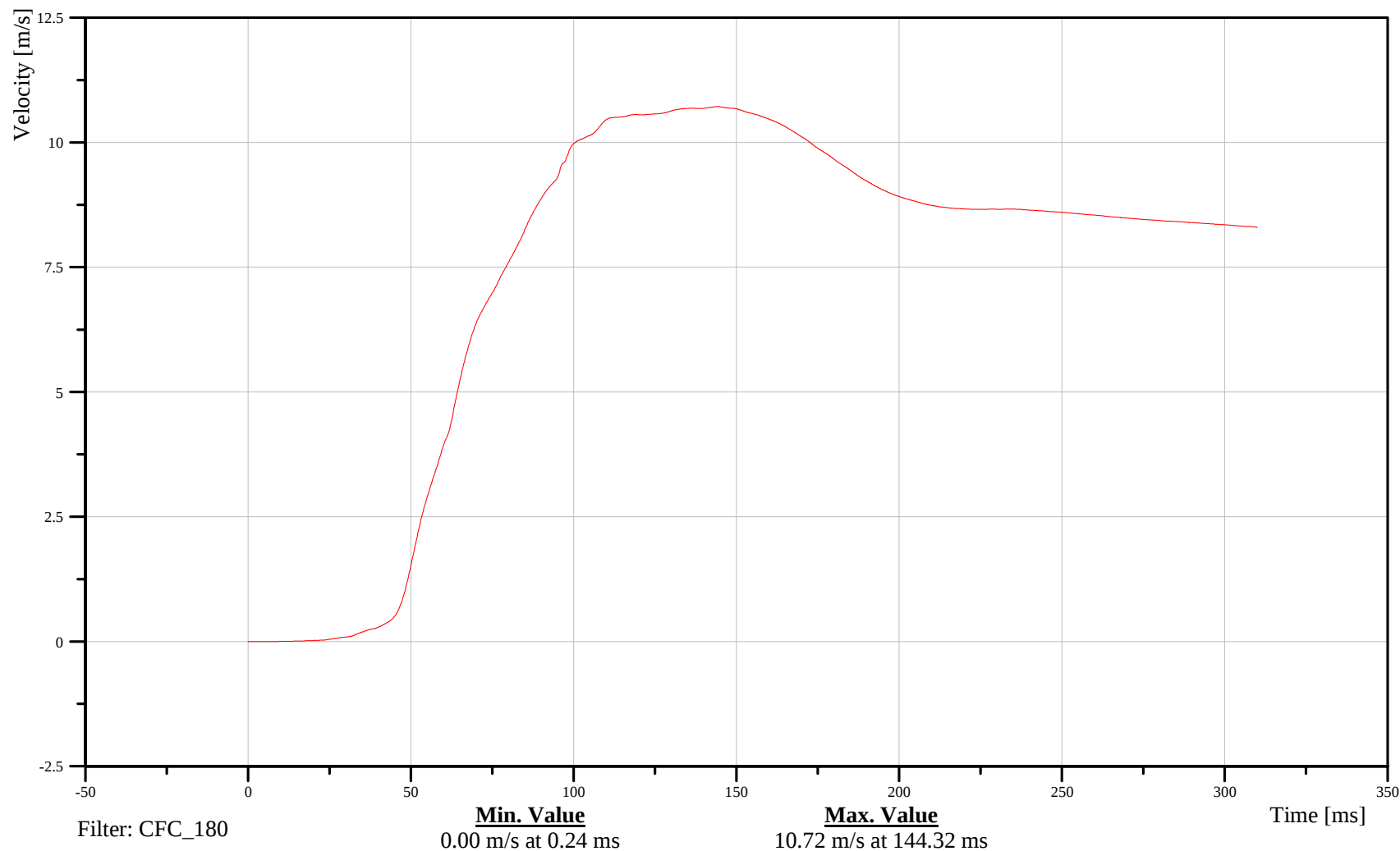
Customer: NHTSA

Test Number: C70202

14RIBSLU00SHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION

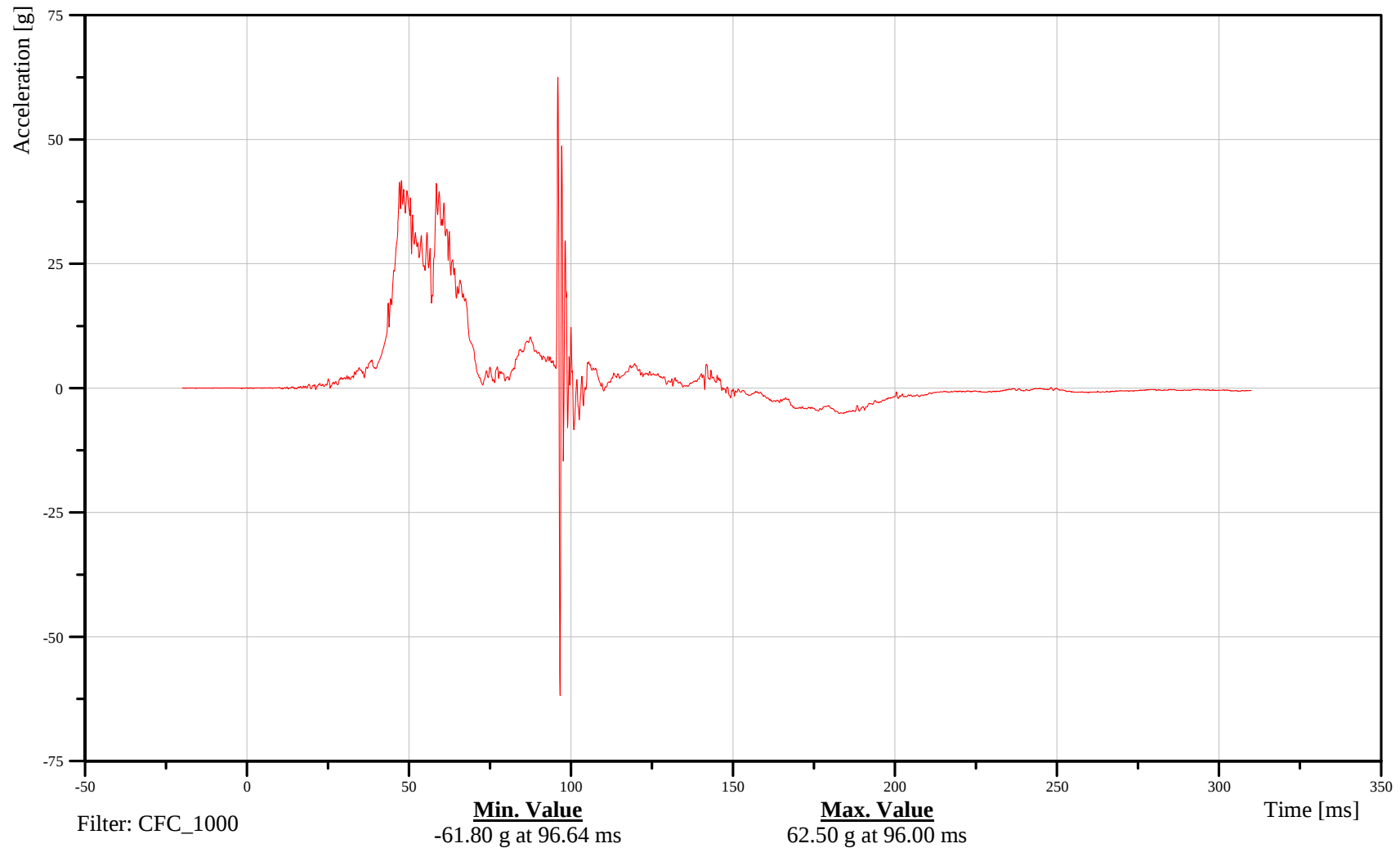
Customer: NHTSA

Test Number: C70202

14RIBSLL00SHACYA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-48

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

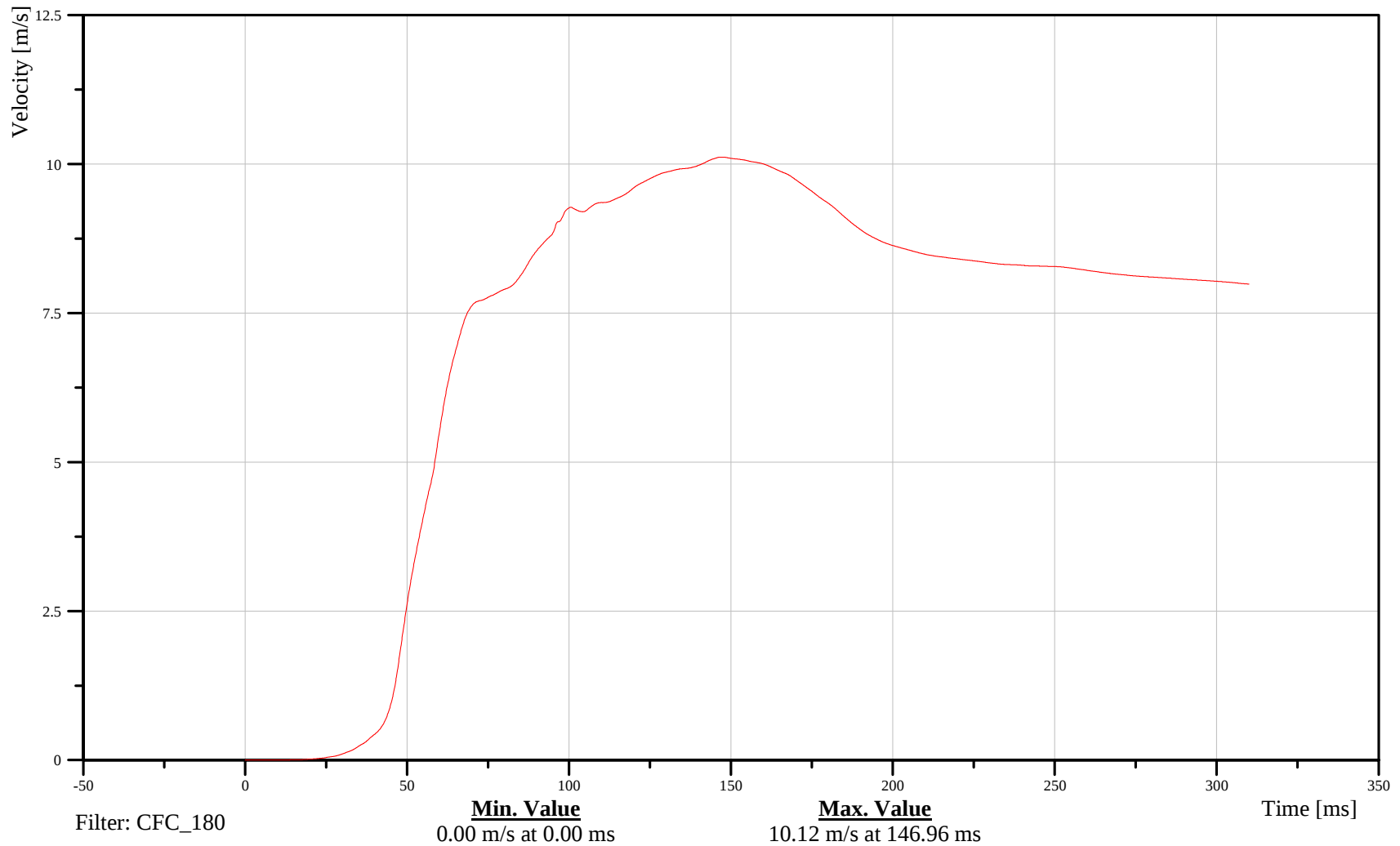
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER LOWER RIB Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

14RIBSLL00SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

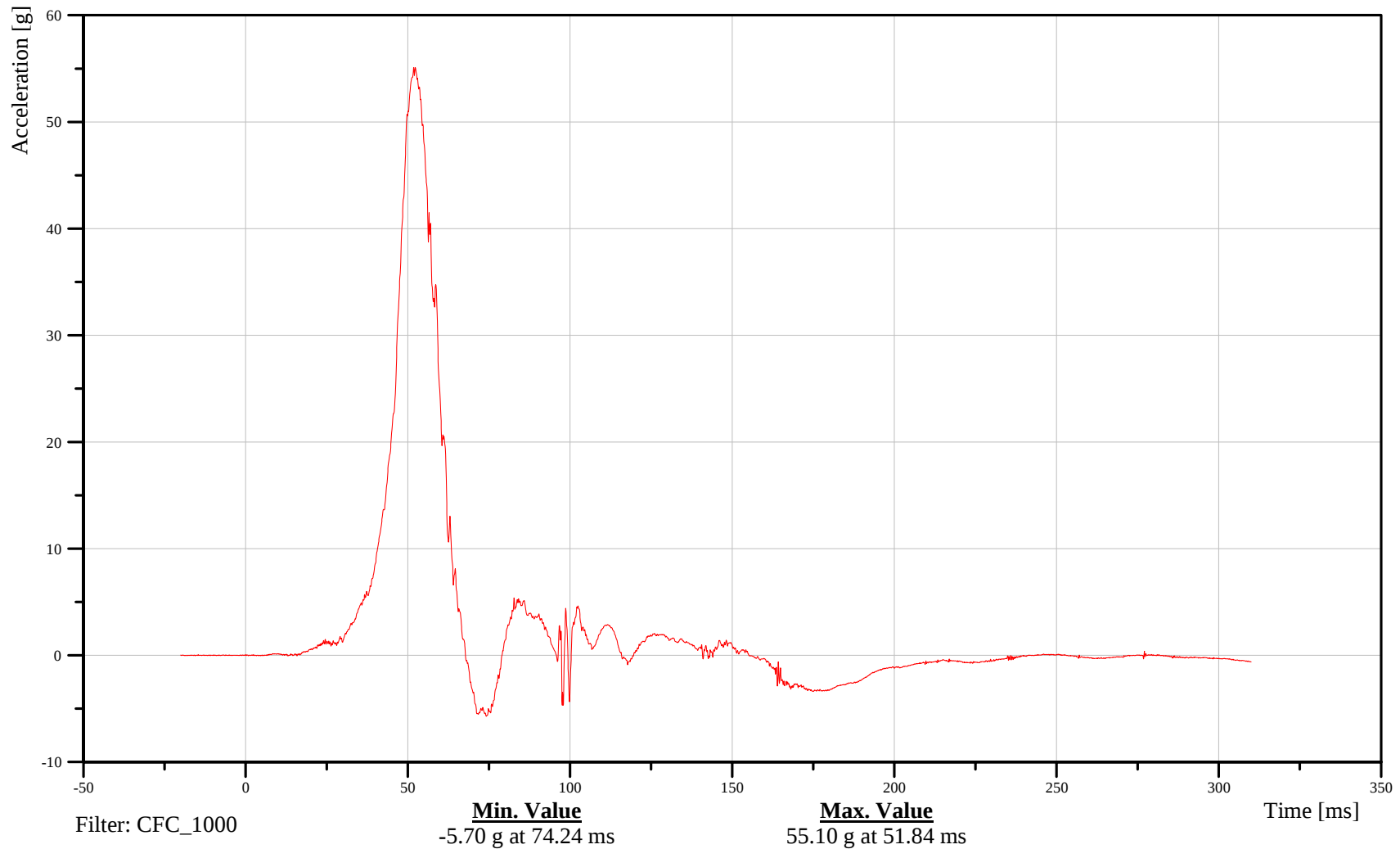
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14SPIN1200SHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER SPINE Y-AXIS VELOCITY

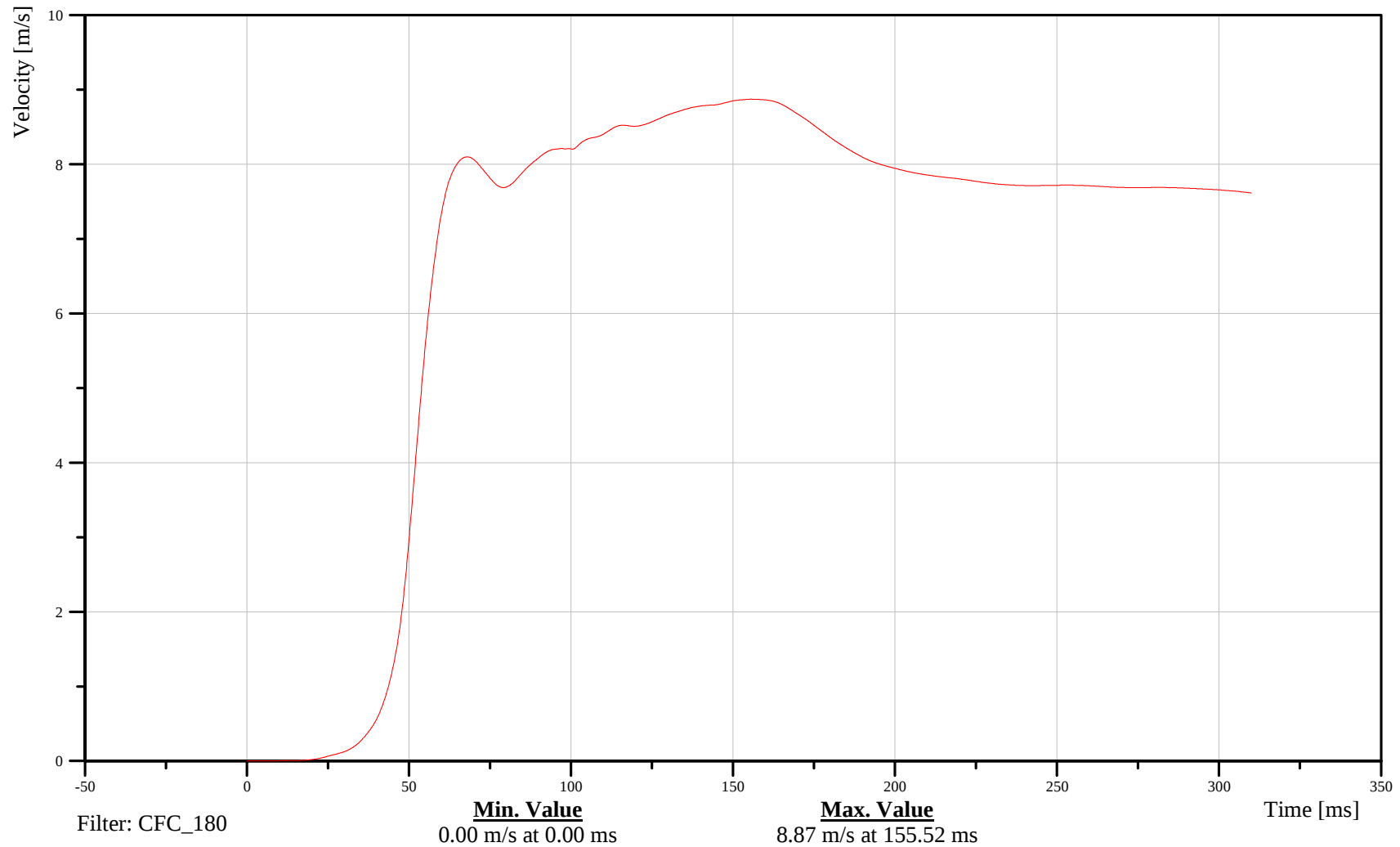
Customer: NHTSA

Test Number: C70202

14SPIN1200SHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION

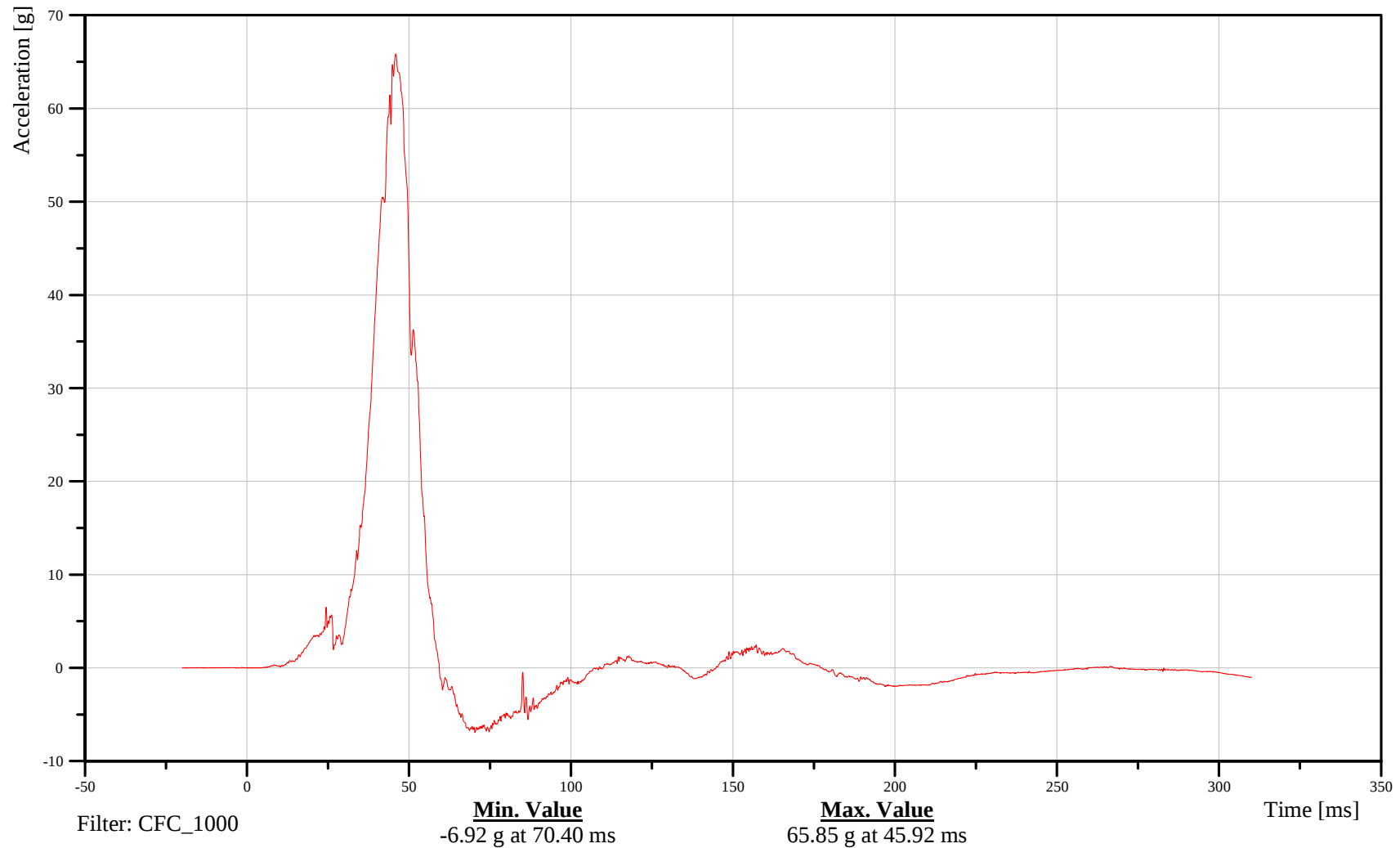
Customer: NHTSA

Test Number: C70202

14PELVCG00SHACYA

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

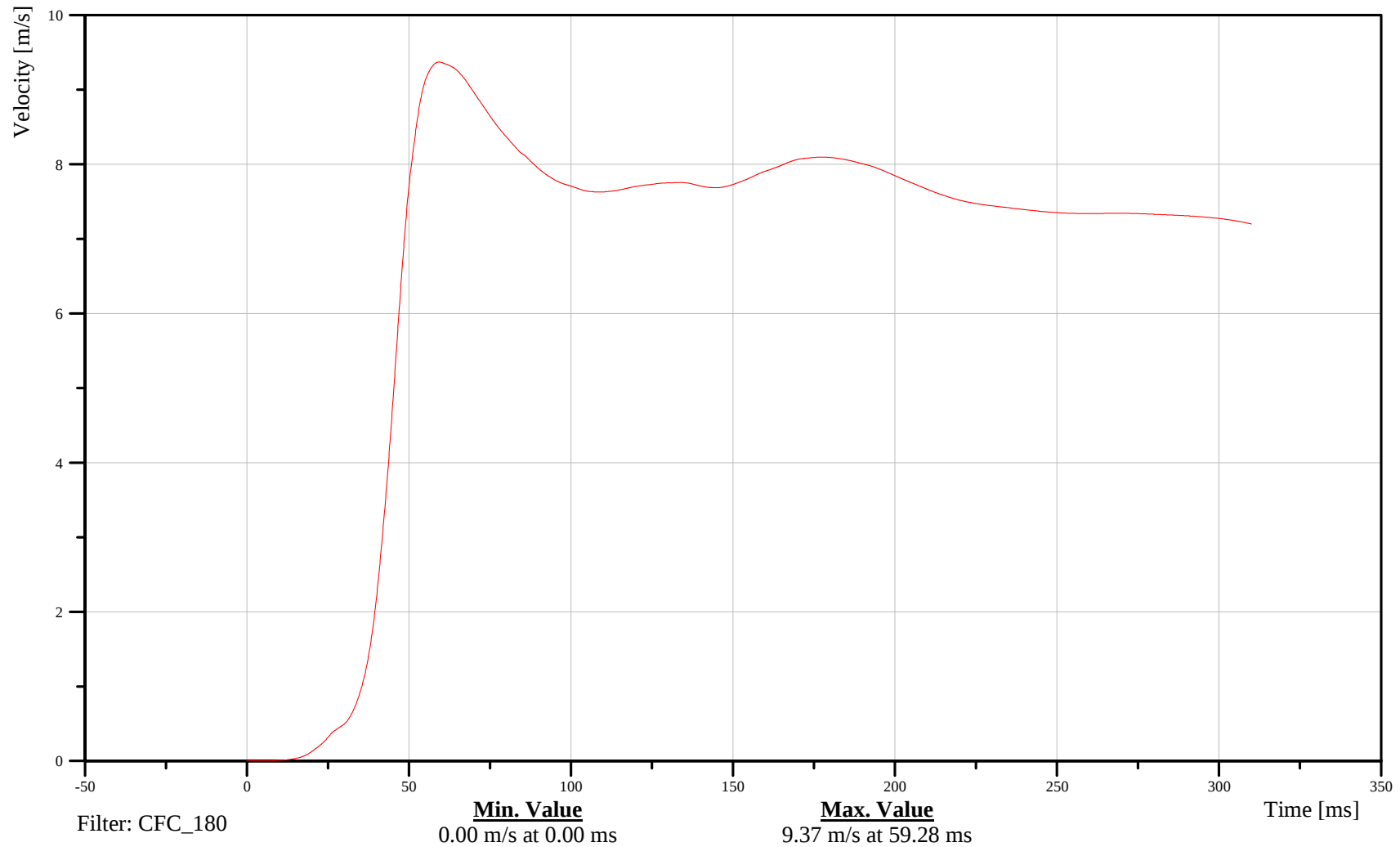
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER PELVIS Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

14PELVCG00SHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103

Driver and Passenger Dummy Redundant Instrumentation Plots



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

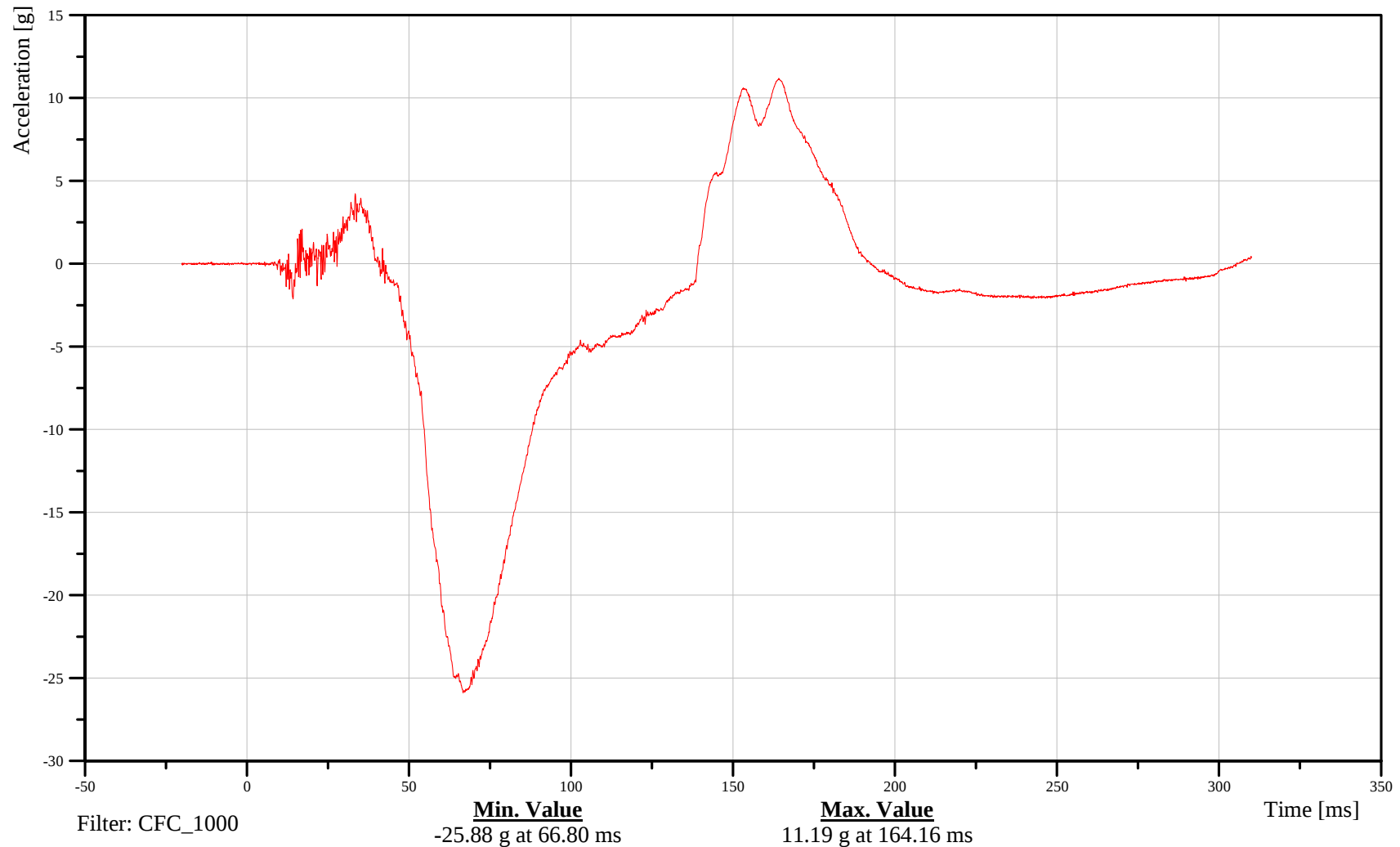
Date: 01/03/2007
Time: 15:44

DRIVER HEAD X-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCGRDSHACXA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

DRIVER HEAD X-AXIS REDUNDANT VELOCITY

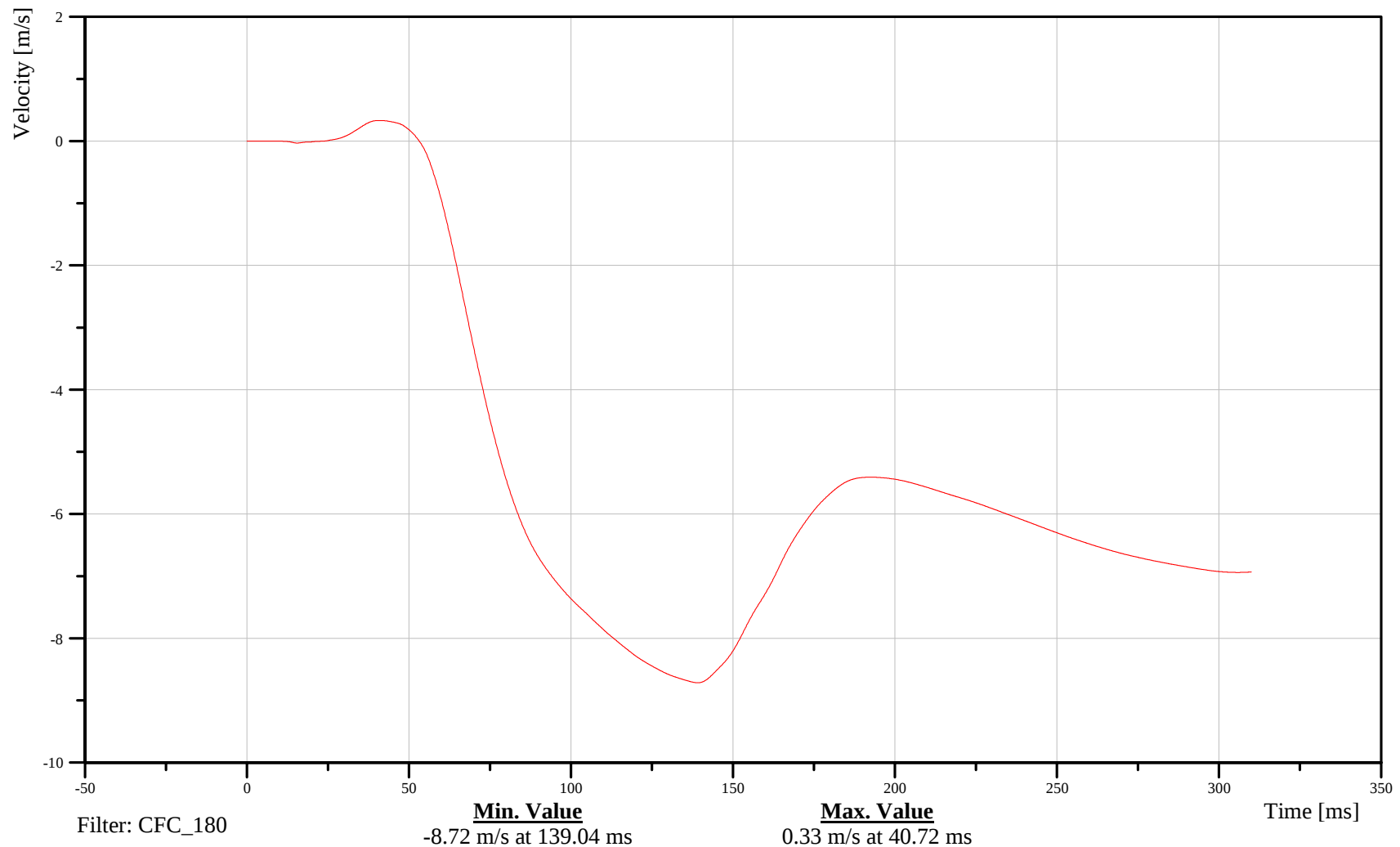
Customer: NHTSA

Test Number: C70202

11HEADCGRDSHVEXC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-56

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

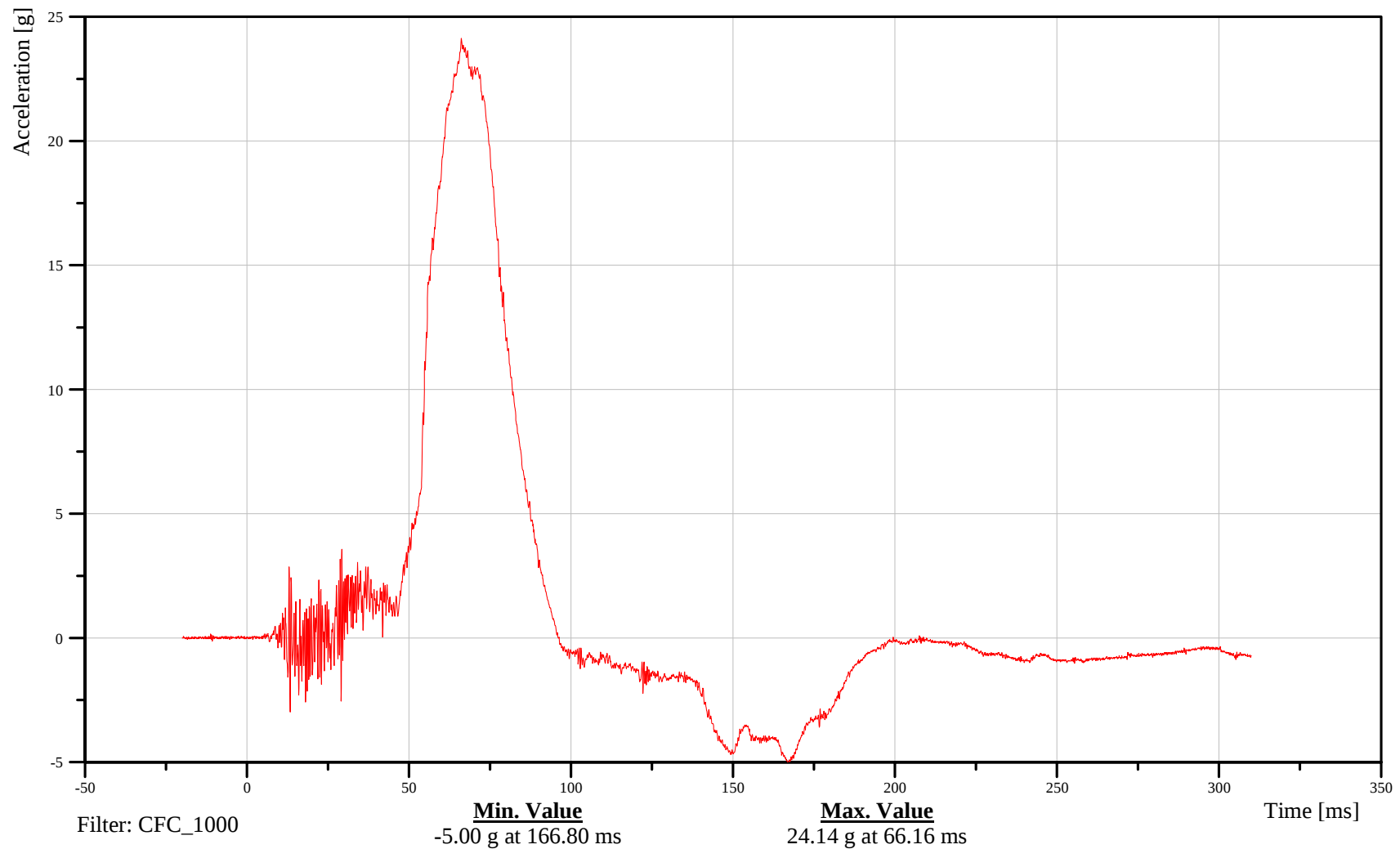
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCGRDSHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

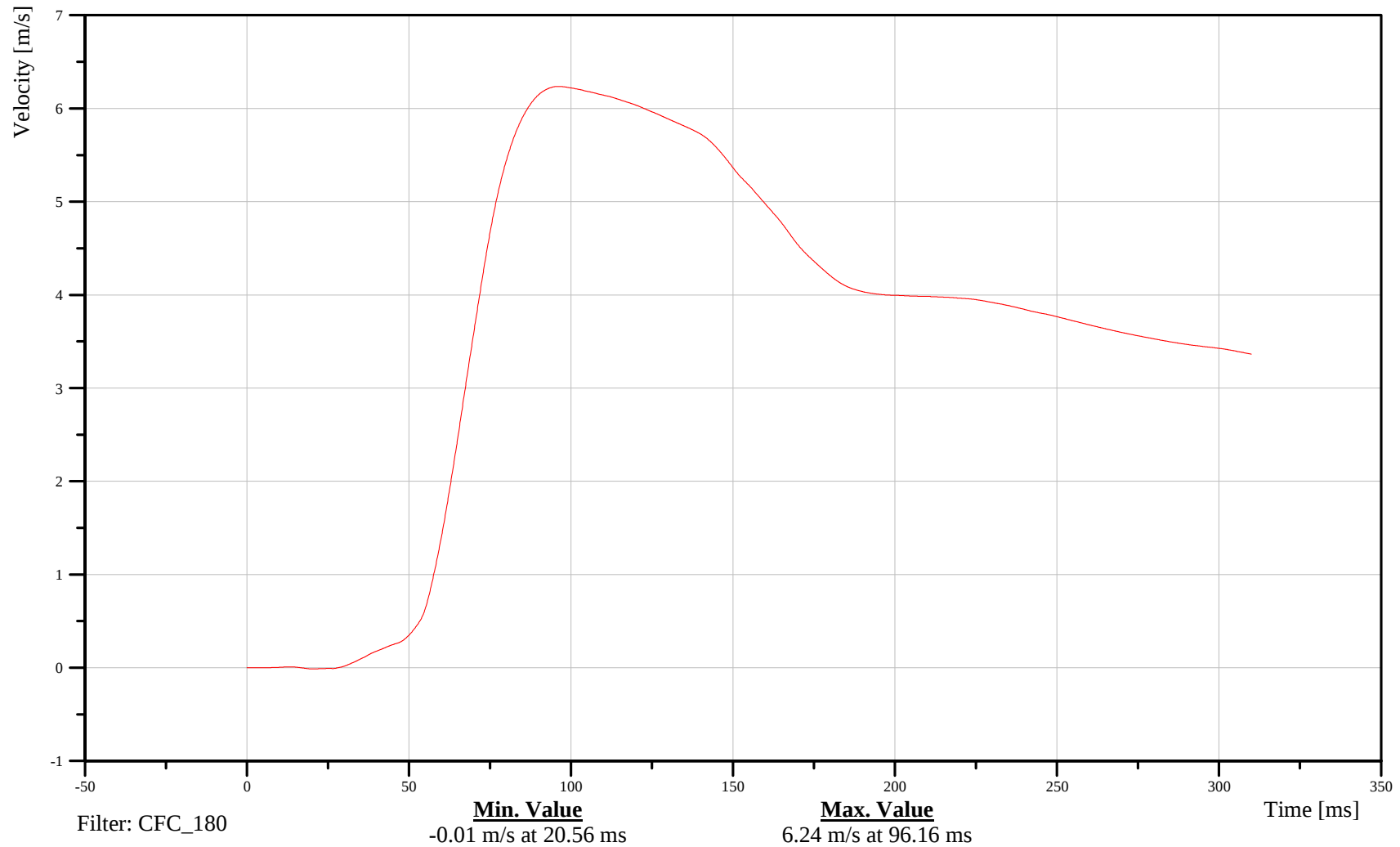
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Y-AXIS REDUNDANT VELOCITY

Customer: NHTSA
Test Number: C70202

11HEADCGRDSHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

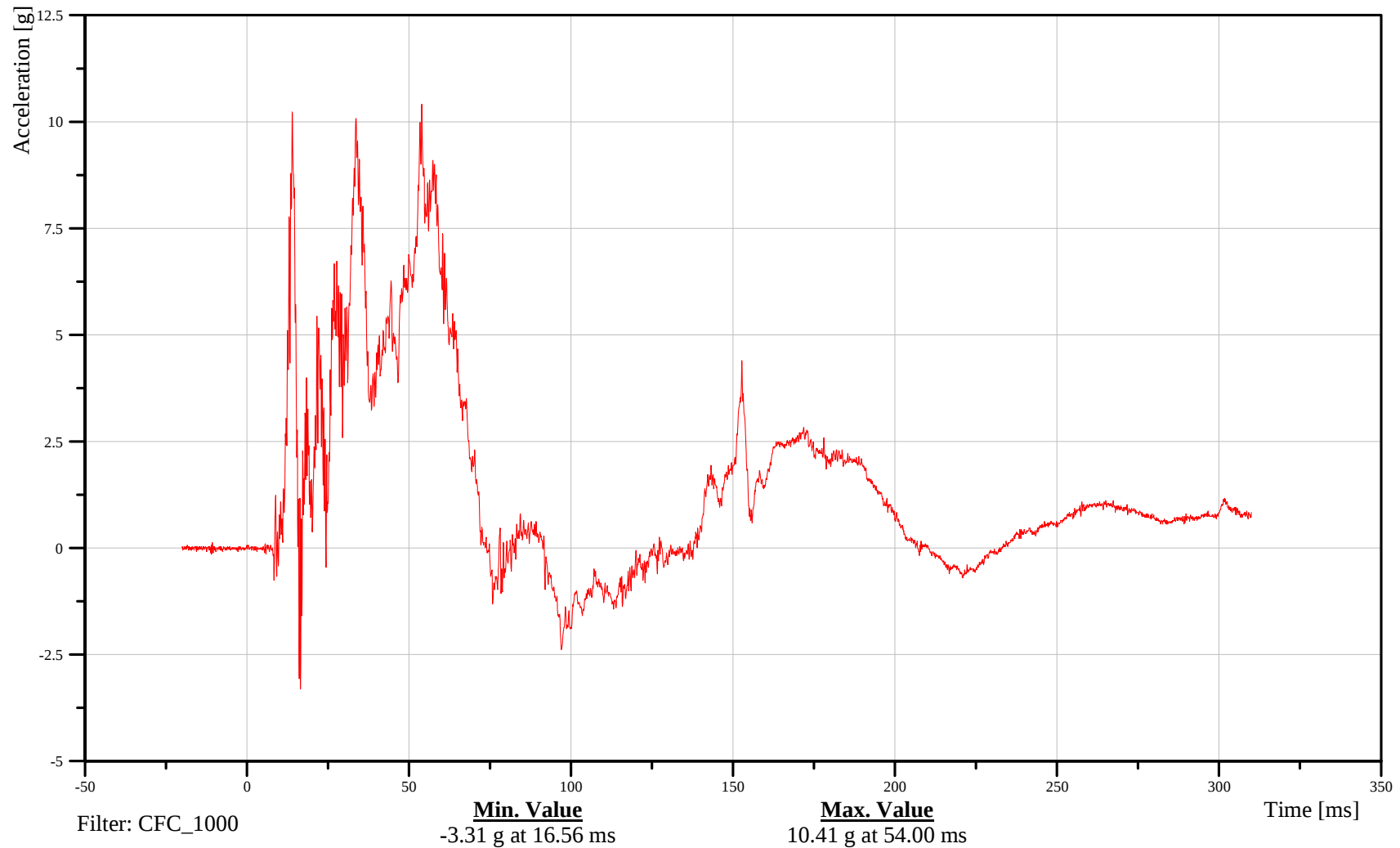
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Z-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11HEADCGRDSHACZA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

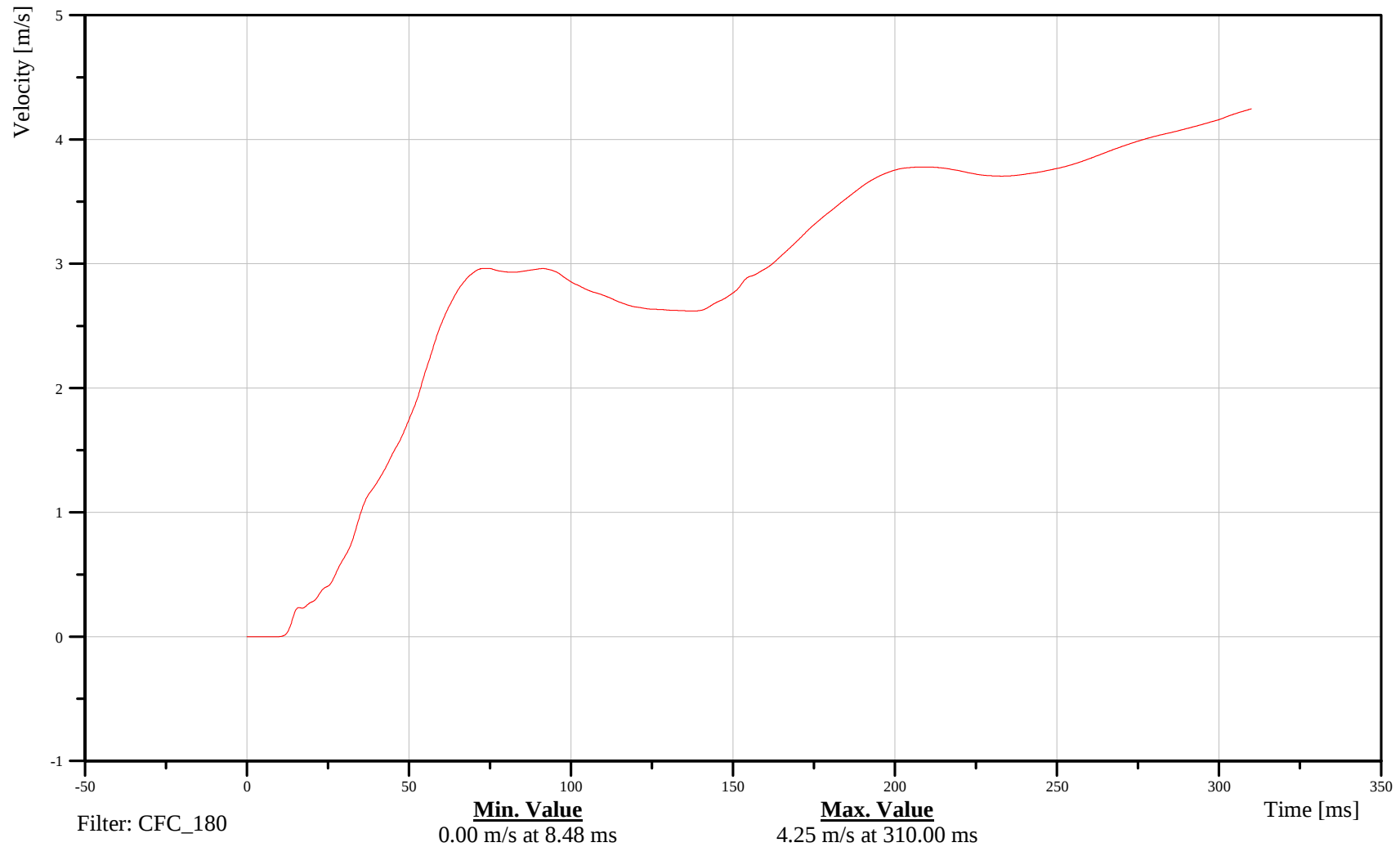
Date: 01/03/2007
Time: 15:44

DRIVER HEAD Z-AXIS REDUNDANT VELOCITY

Customer: NHTSA
Test Number: C70202

11HEADCGRDSHVEZC

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

DRIVER HEAD RESULTANT REDUNDANT ACCELERATION

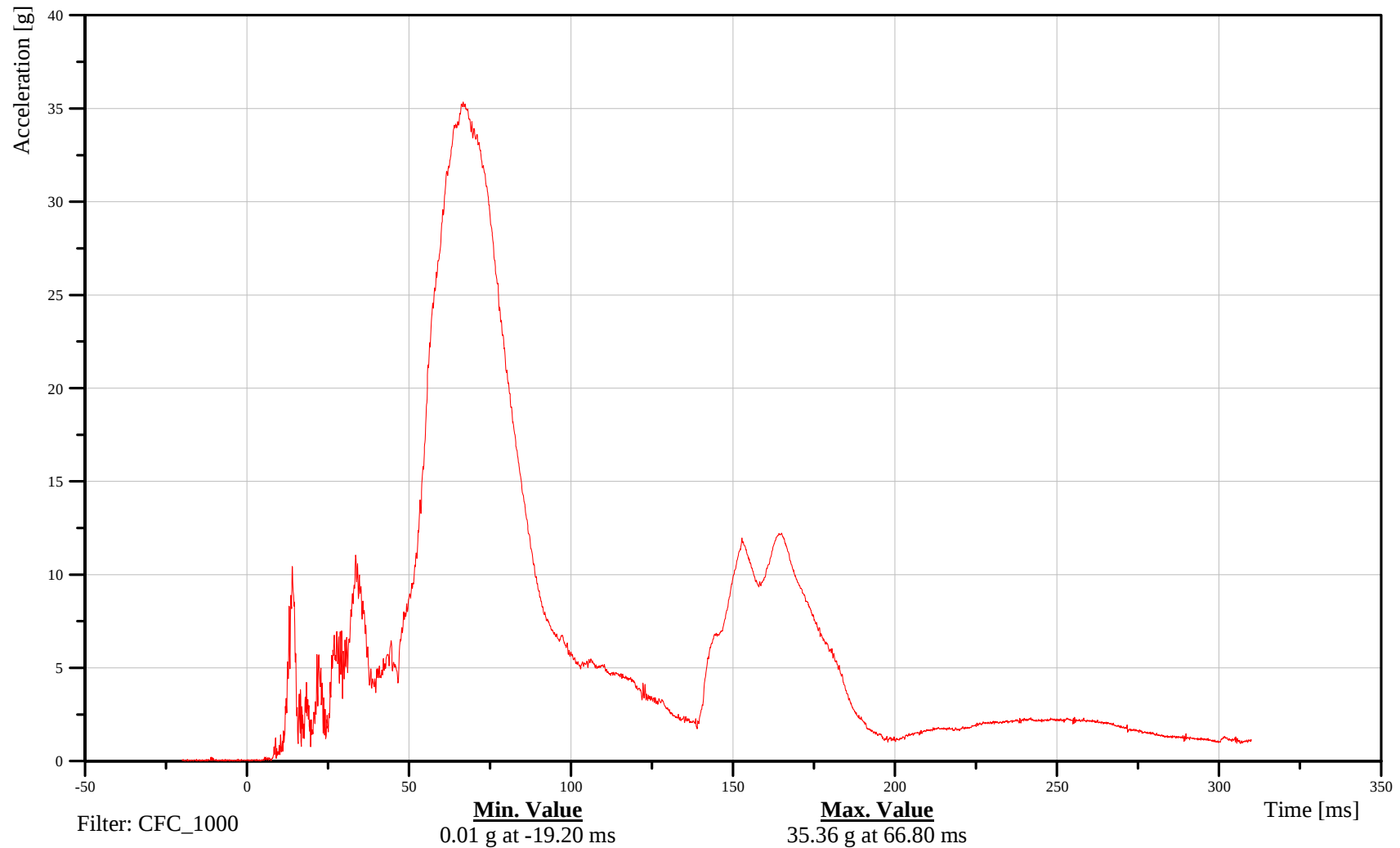
Customer: NHTSA

Test Number: C70202

11HEADCGRDSHACRA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-61

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

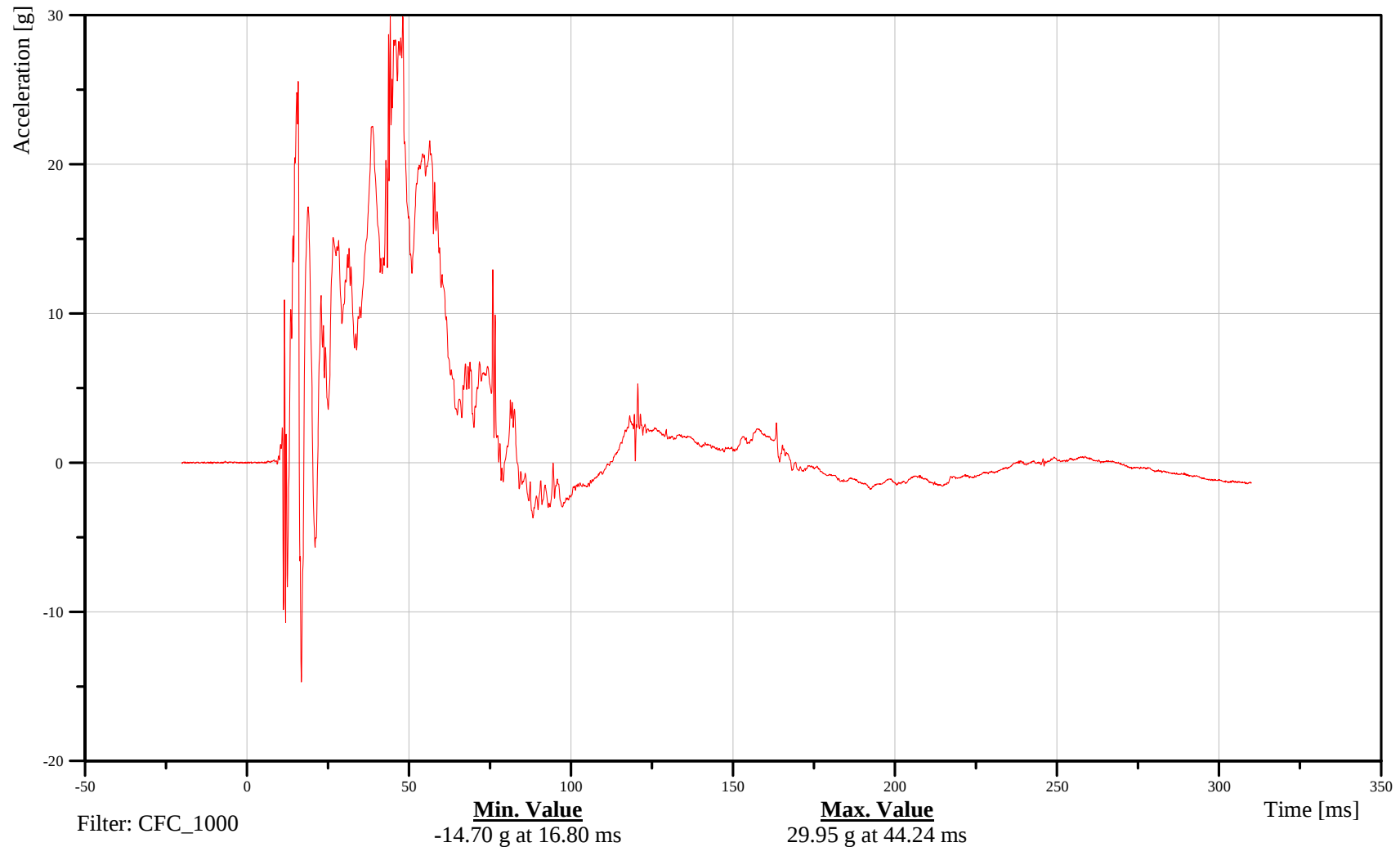
Date: 01/03/2007
Time: 15:44

DRIVER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSLURESHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

DRIVER UPPER RIB Y-AXIS REDUNDANT VELOCITY

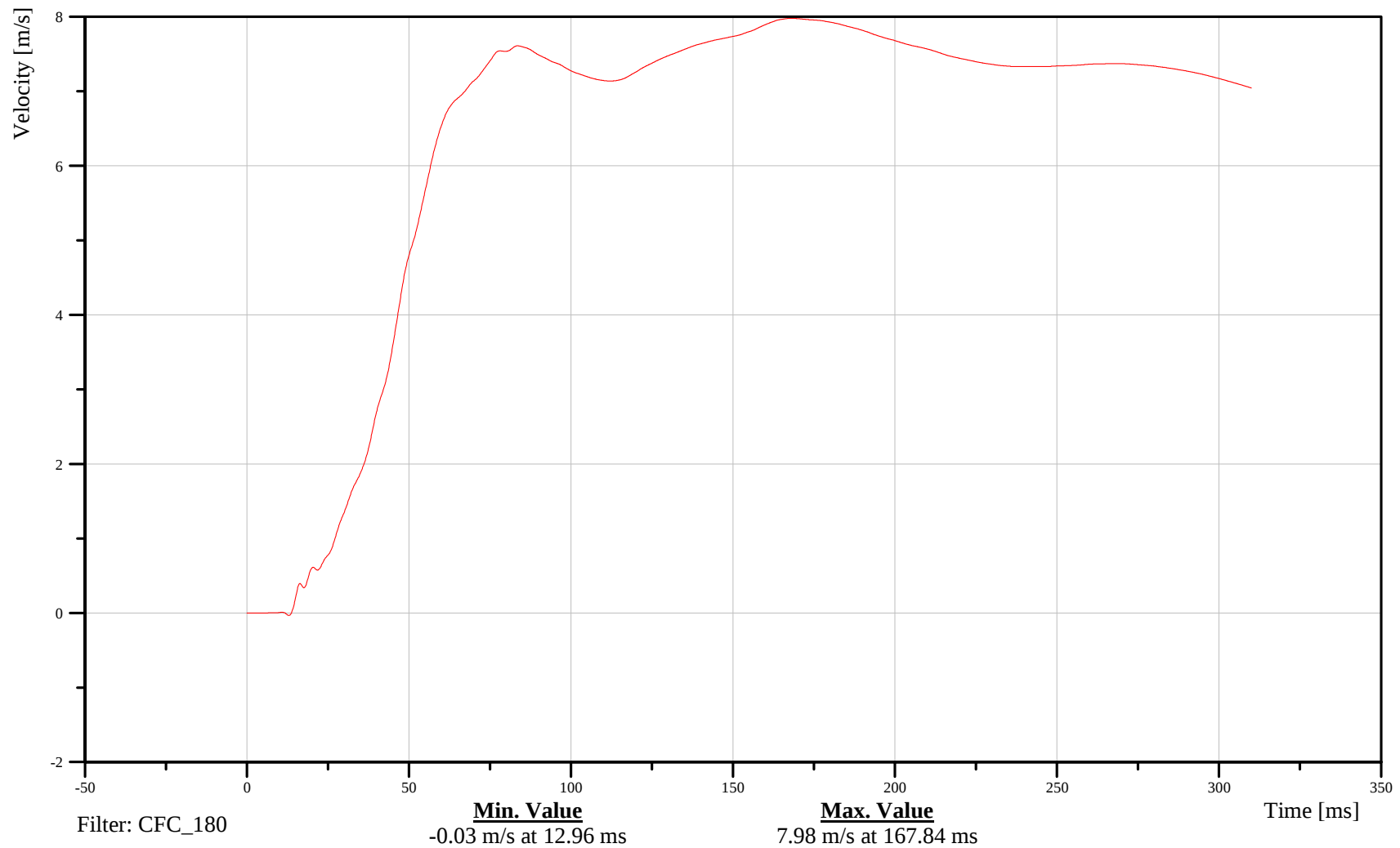
Customer: NHTSA

Test Number: C70202

11RIBSLURESHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-63

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

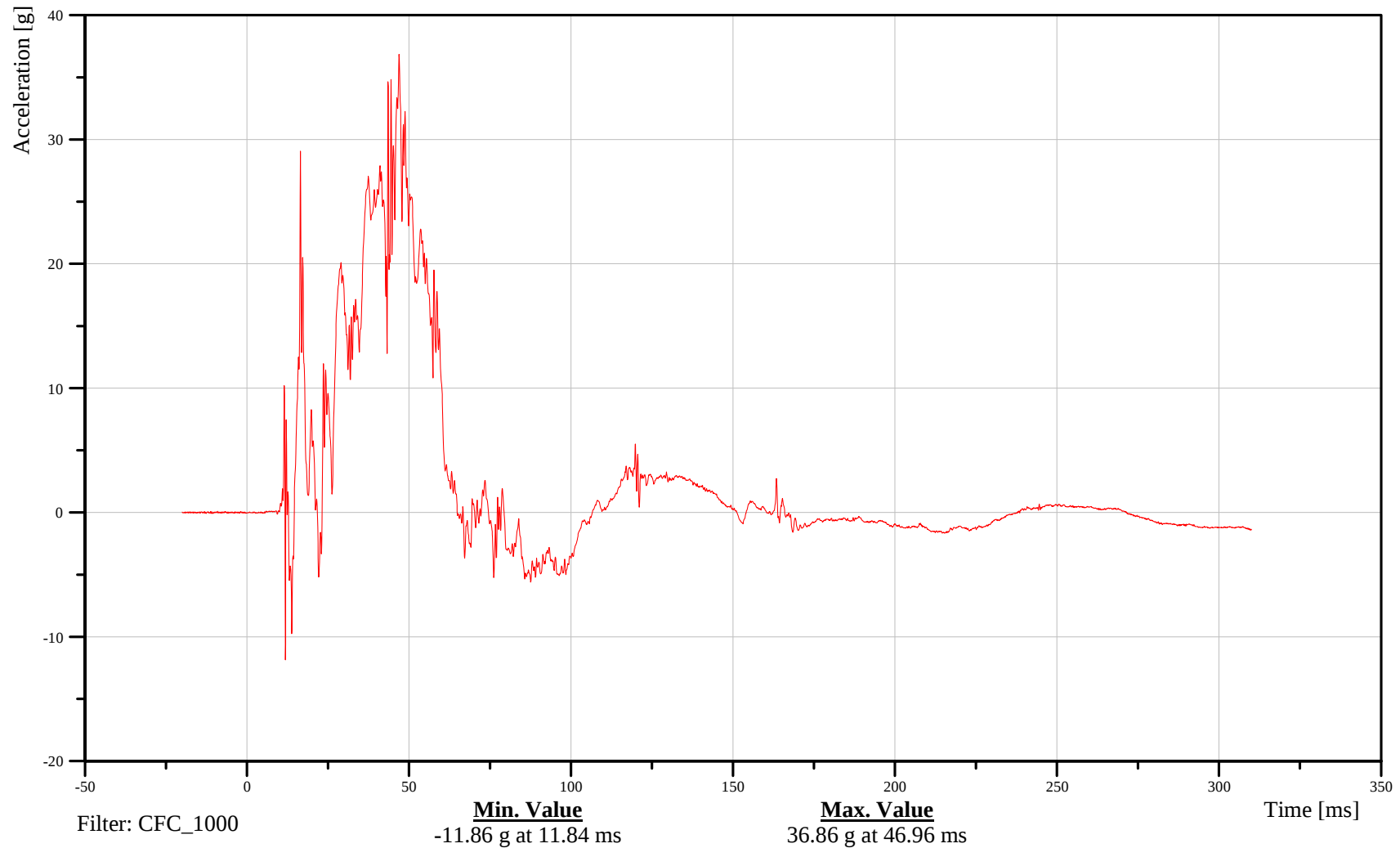
Date: 01/03/2007
Time: 15:44

DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSLLRESHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

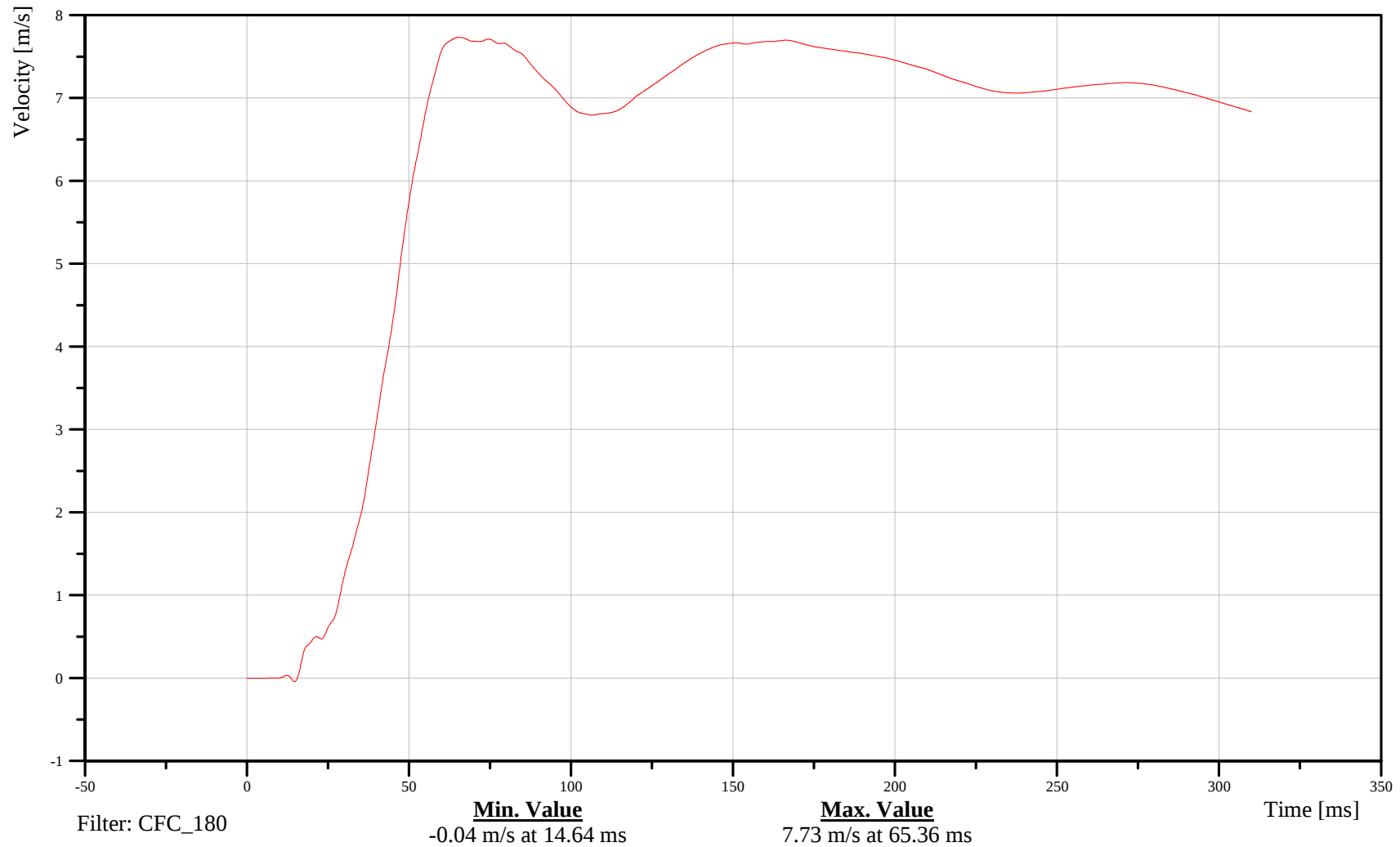
Date: 01/03/2007
Time: 15:44

DRIVER LOWER RIB Y-AXIS REDUNDANT VELOCITY

Customer: NHTSA
Test Number: C70202

11RIBSLLRESHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-65

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

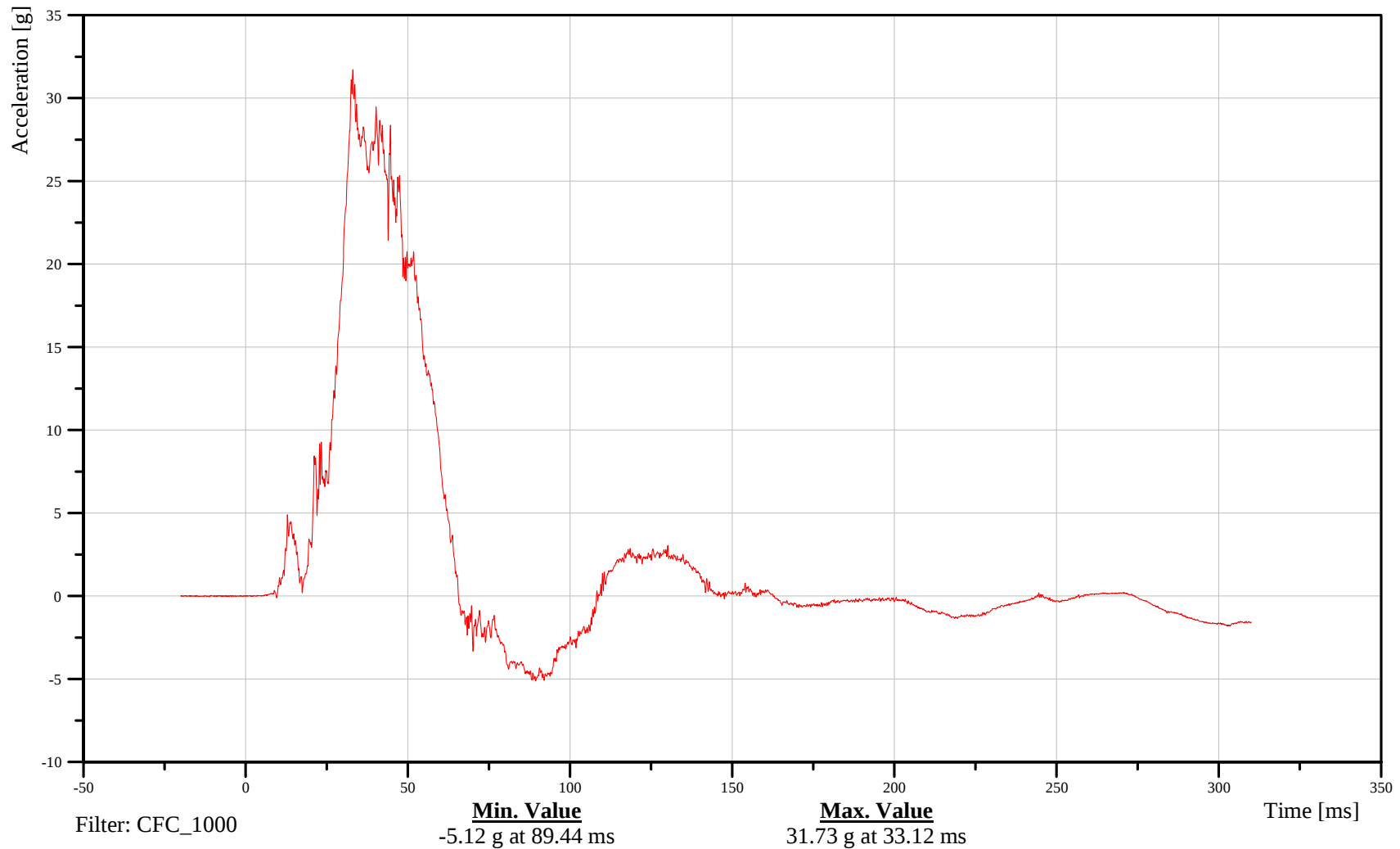
Date: 01/03/2007
Time: 15:44

DRIVER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11SPIN12RDSHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

DRIVER LOWER SPINE Y-AXIS REDUNDANT VELOCITY

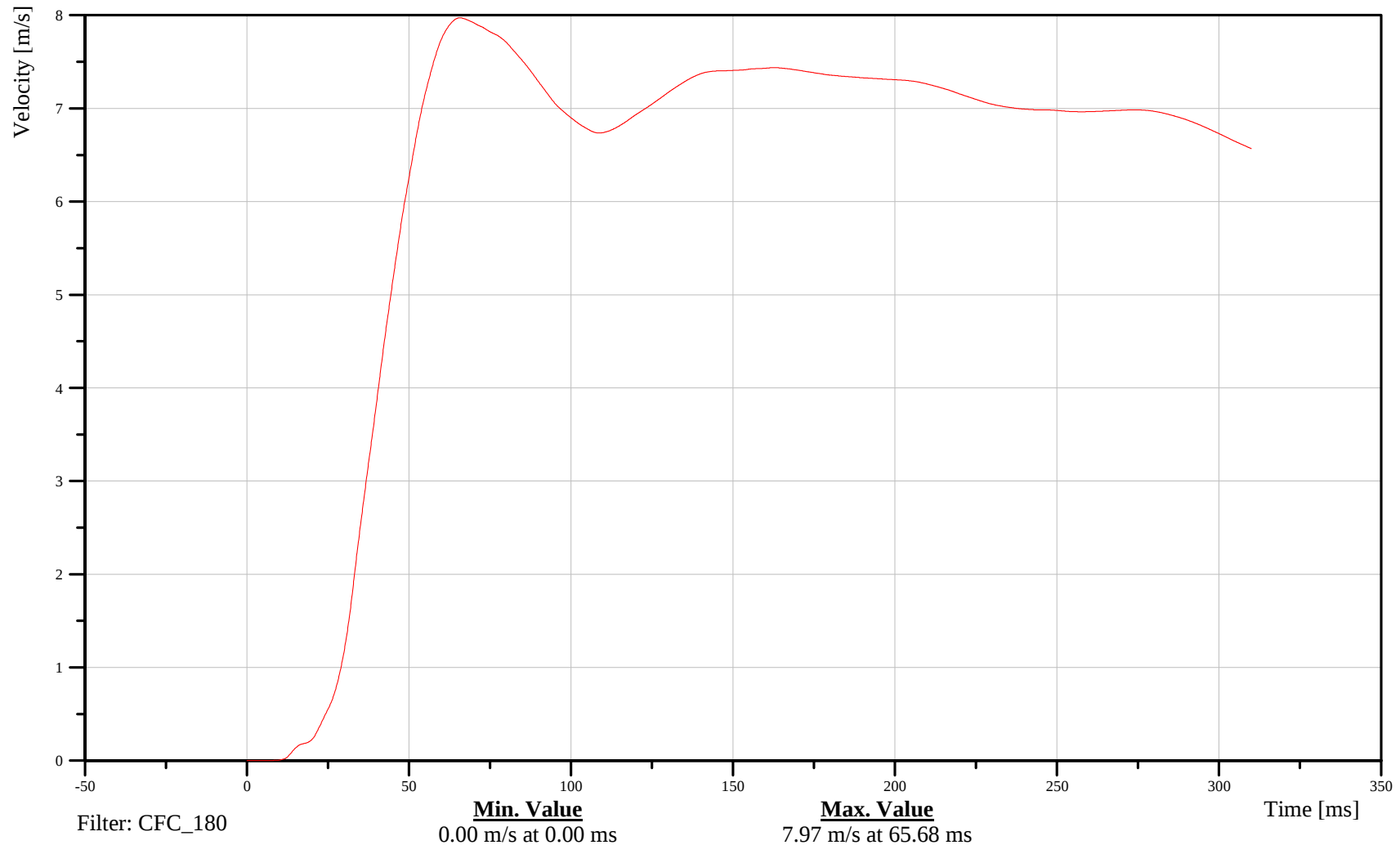
Customer: NHTSA

Test Number: C70202

11SPIN12RDSHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



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070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD X-AXIS REDUNDANT ACCELERATION

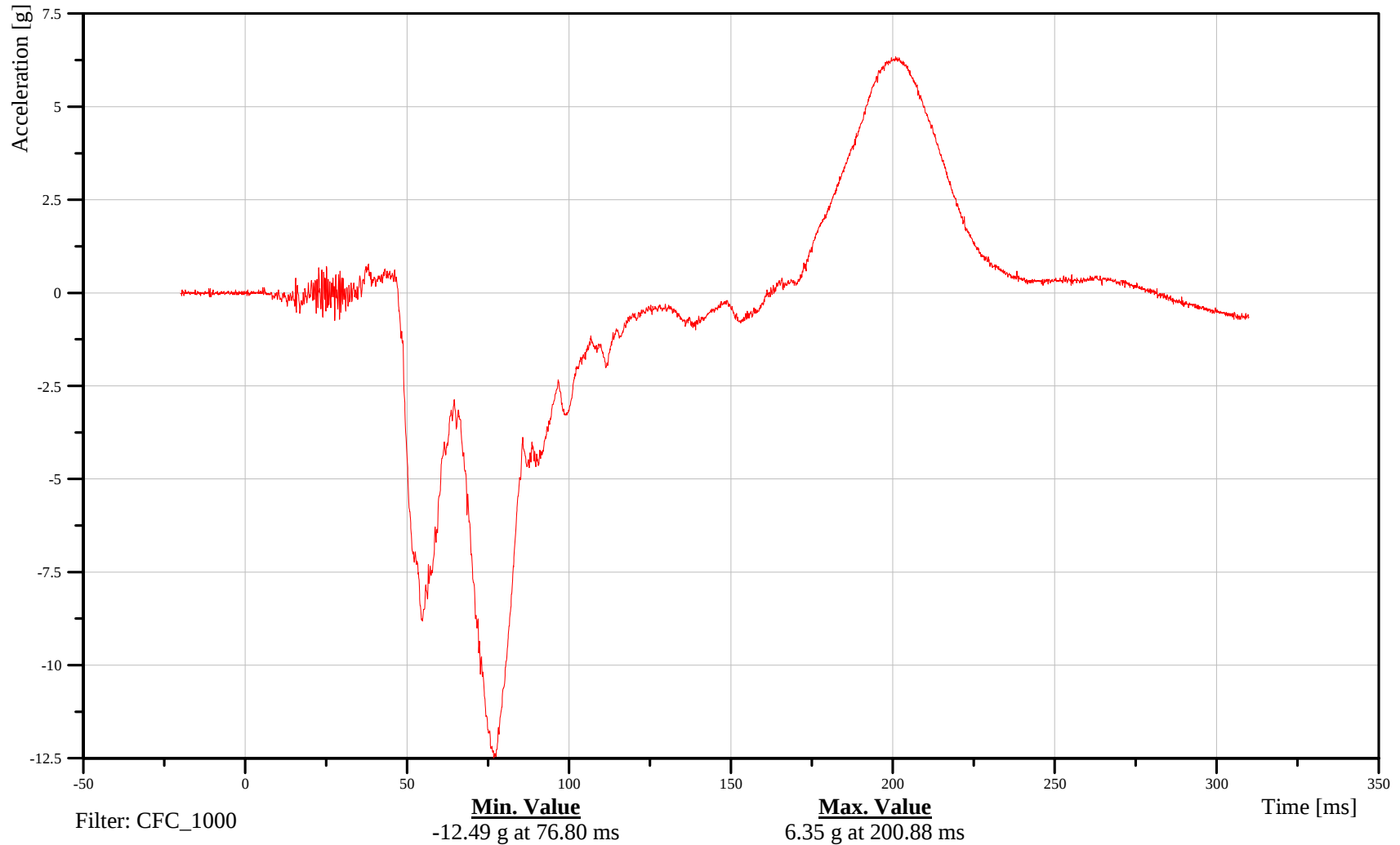
Customer: NHTSA

Test Number: C70202

14HEADCGRDSHACXA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-68

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER HEAD X-AXIS REDUNDANT VELOCITY

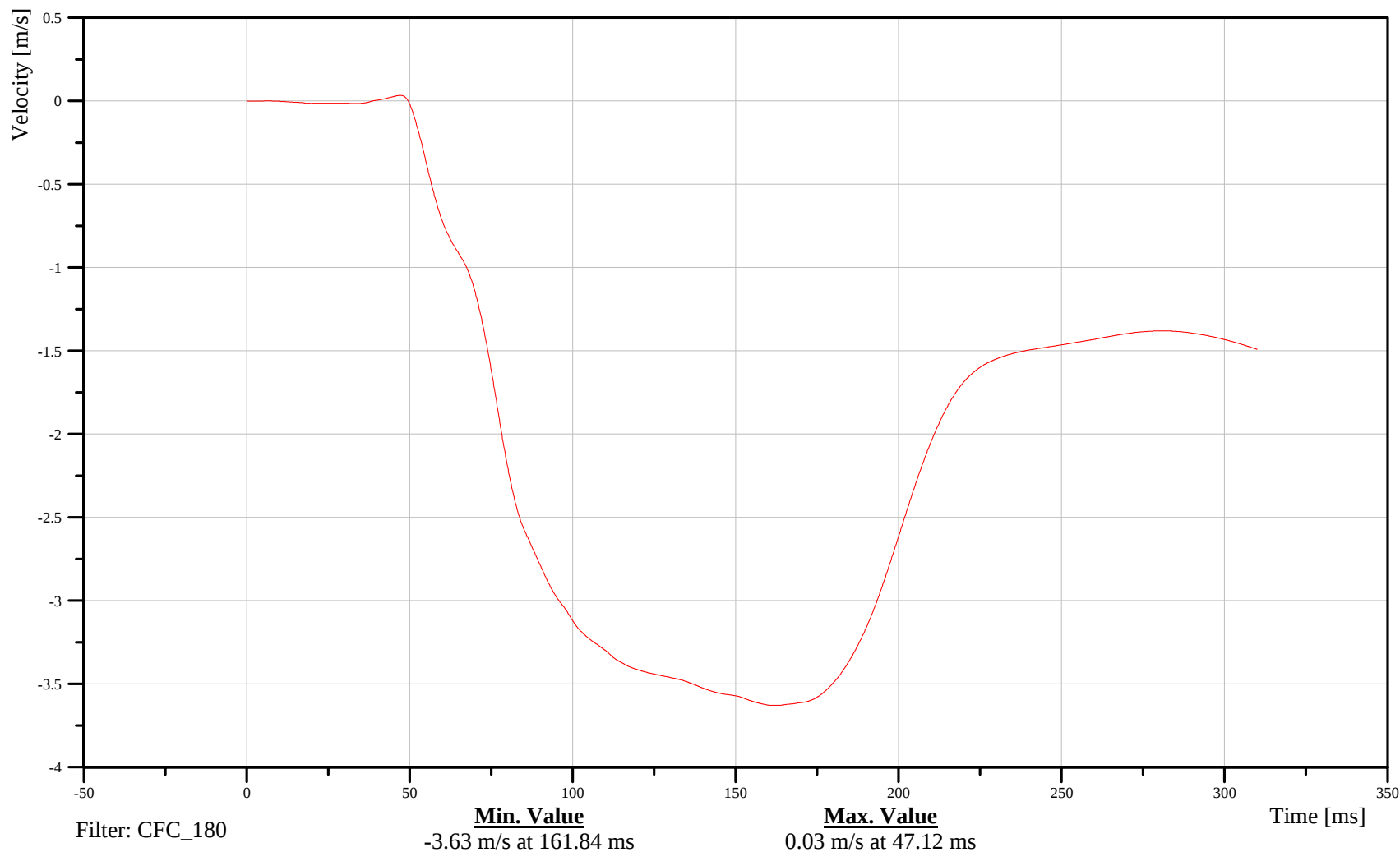
Customer: NHTSA

Test Number: C70202

14HEADCGRDSHVEXC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-69

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT ACCELERATION

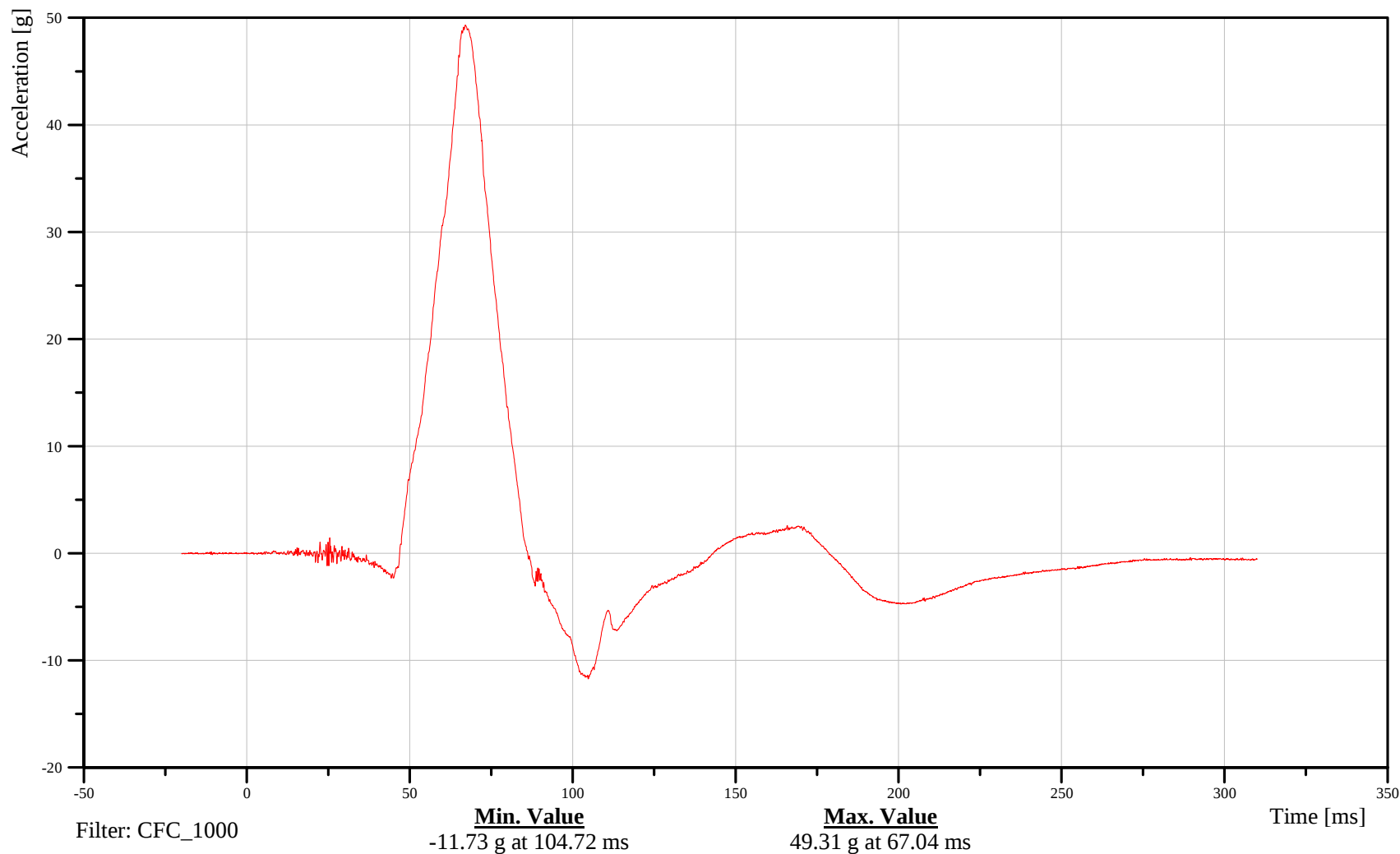
Customer: NHTSA

Test Number: C70202

14HEADCGRDSHACYA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-70

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

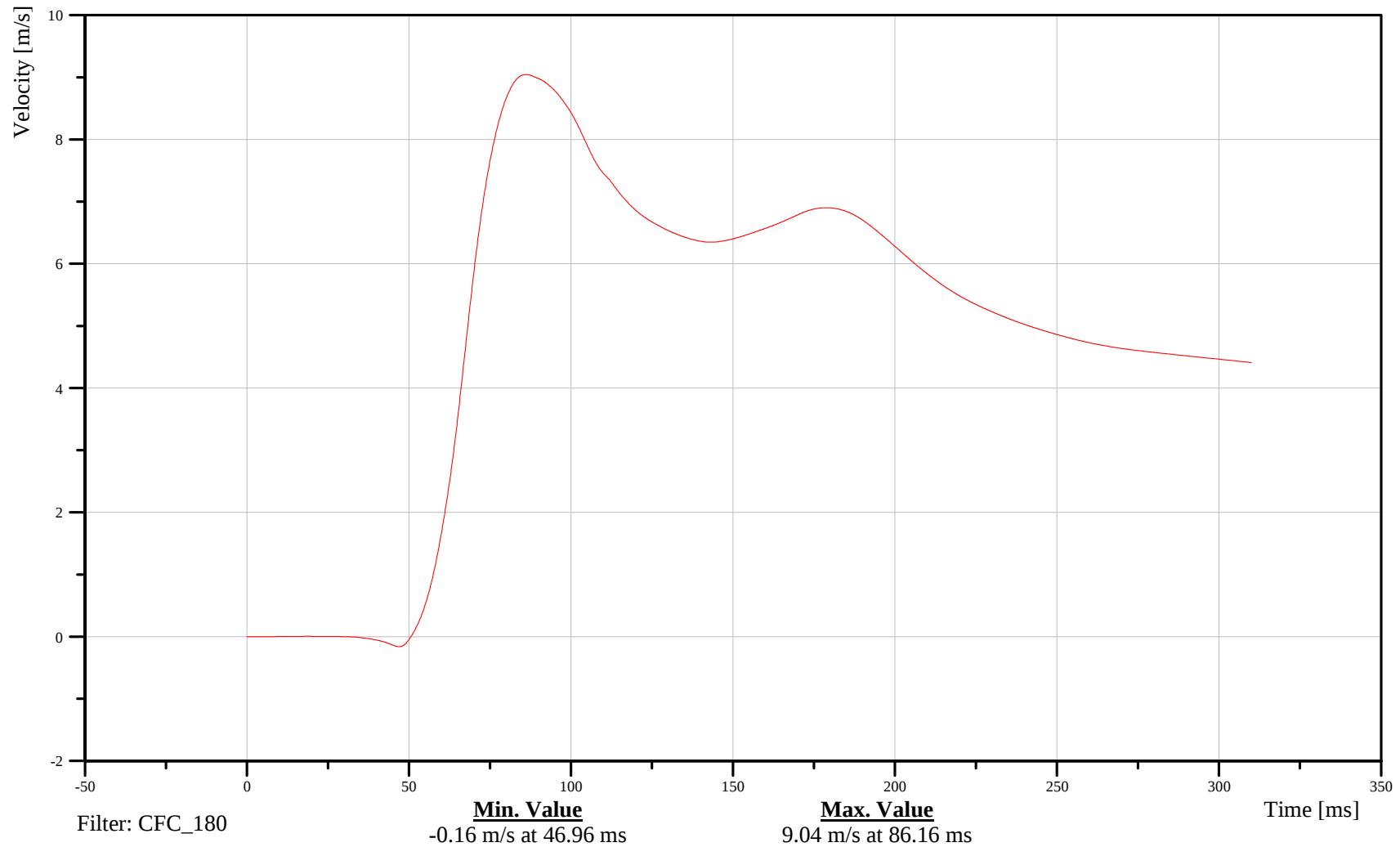
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT VELOCITY

Customer: NHTSA
Test Number: C70202

14HEADCGRDSHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-71

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER HEAD Z-AXIS REDUNDANT ACCELERATION

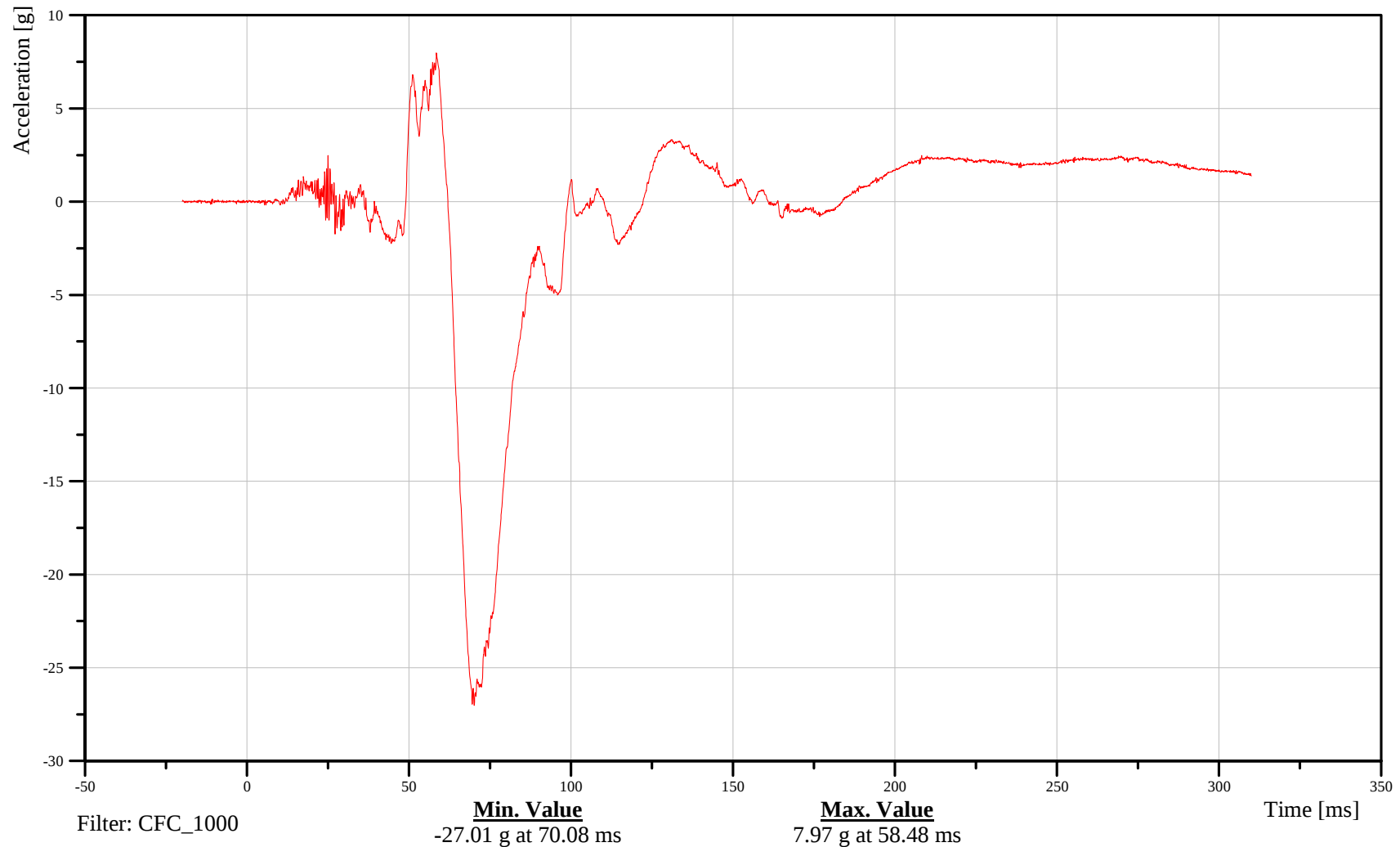
Customer: NHTSA

Test Number: C70202

14HEADCGRDSHACZA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-72

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD Z-AXIS REDUNDANT VELOCITY

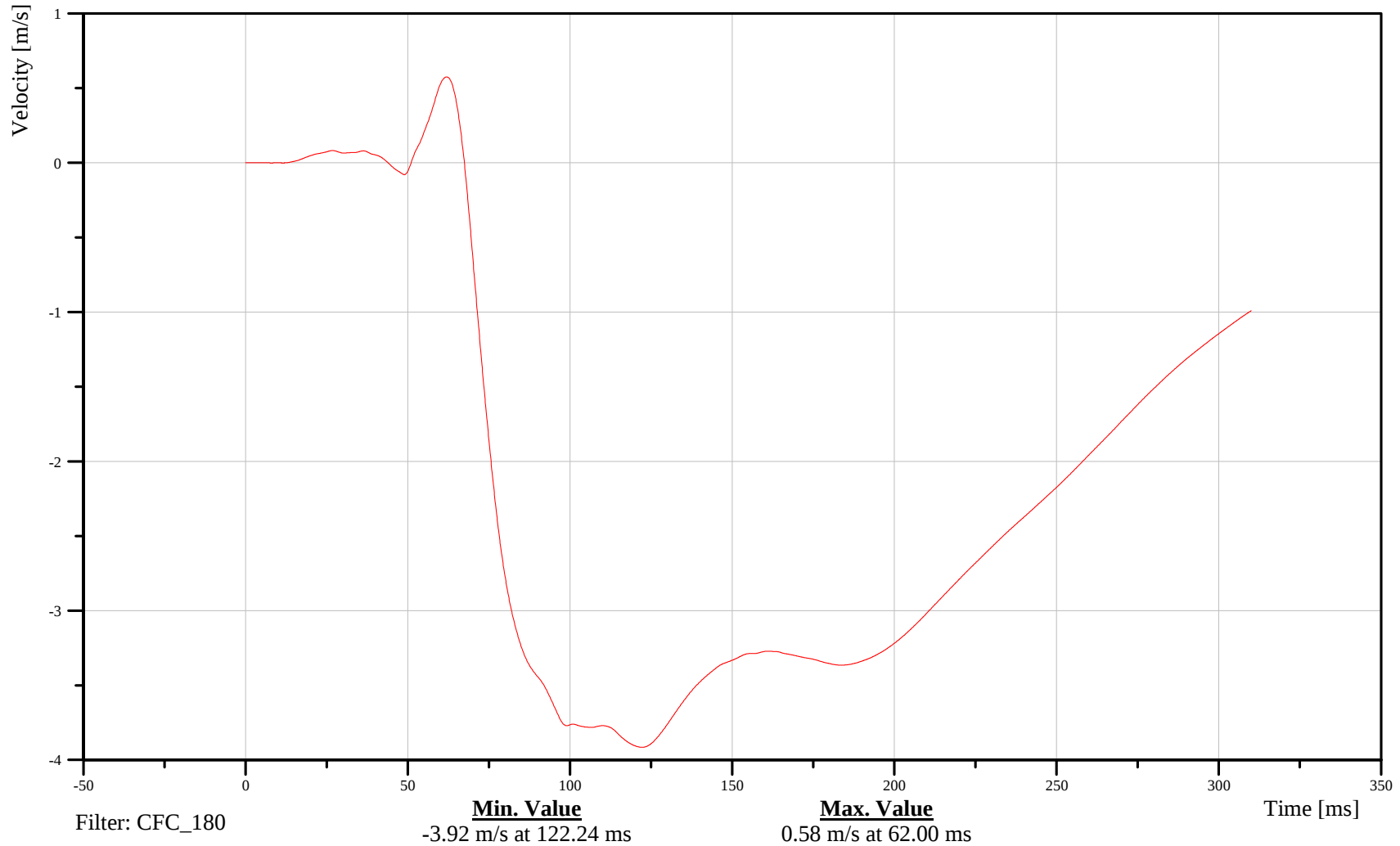
Customer: NHTSA

Test Number: C70202

14HEADCGRDSHVEZC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-73

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

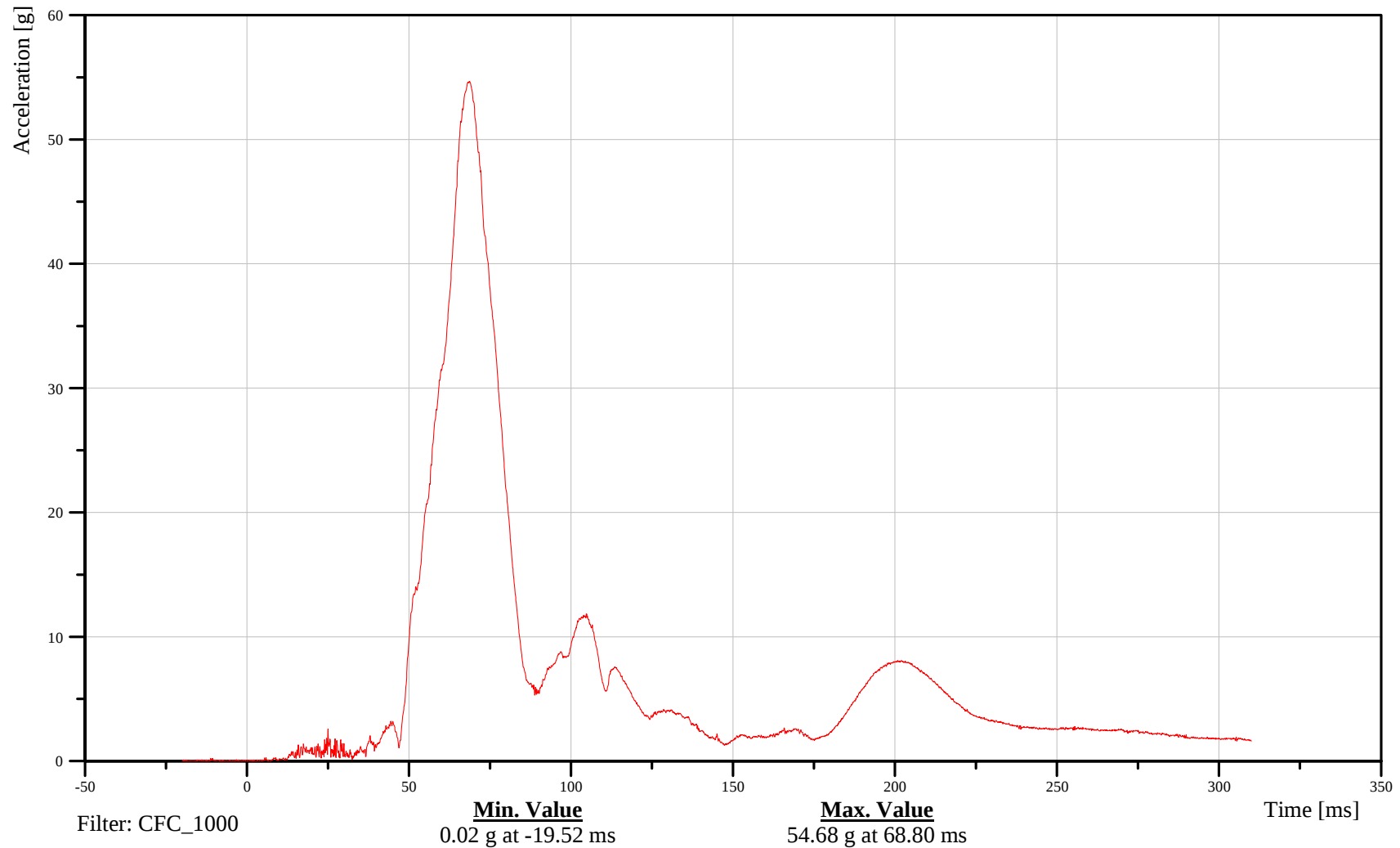
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER HEAD RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

14HEADCGRDSHACRA

TRC Inc. Test Lab: CTF
Test Number: 070103



B-74

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

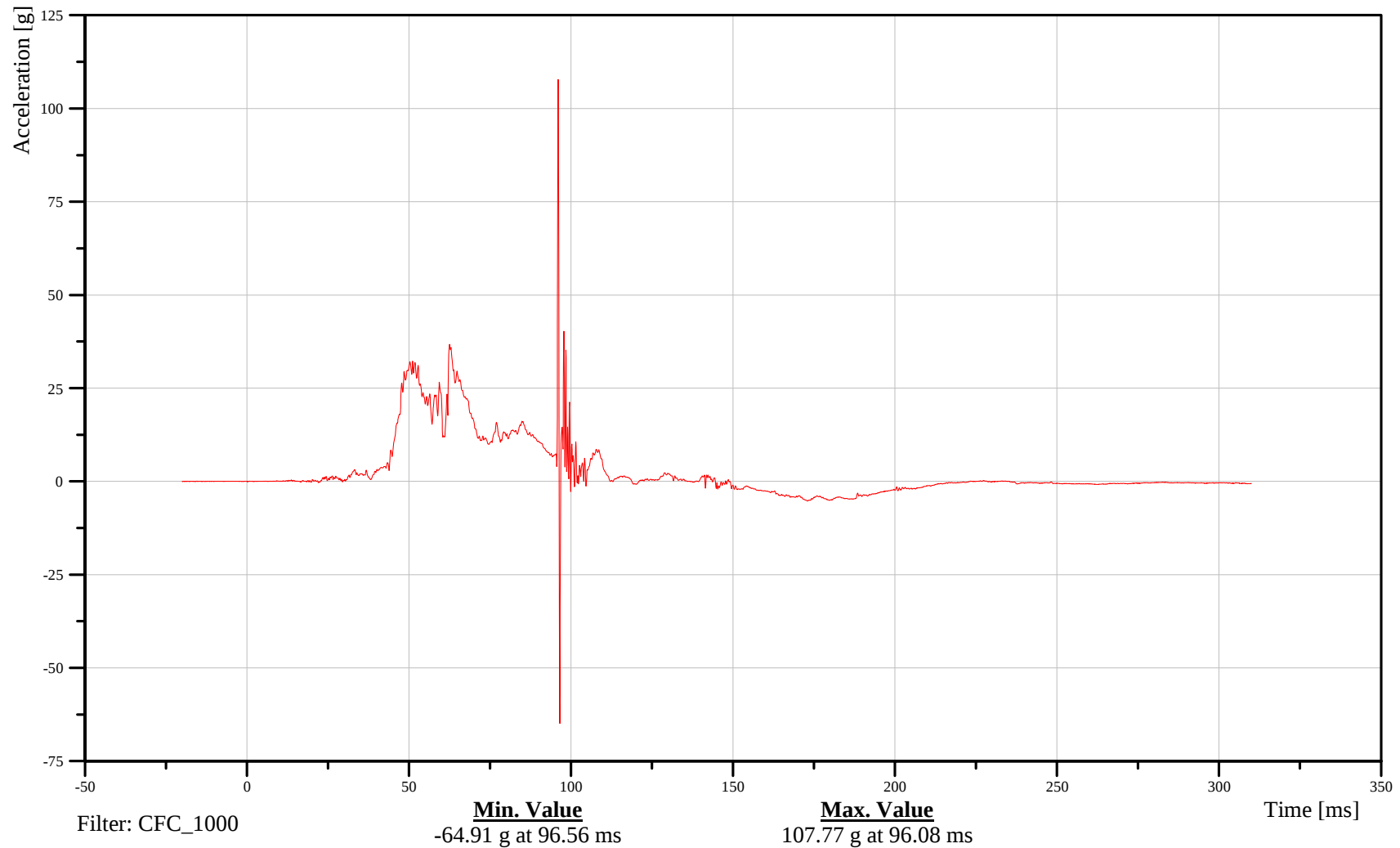
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

14RIBSLURESHACYA

TRC Inc. Test Lab: CTF
Test Number: 070103



B-75

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

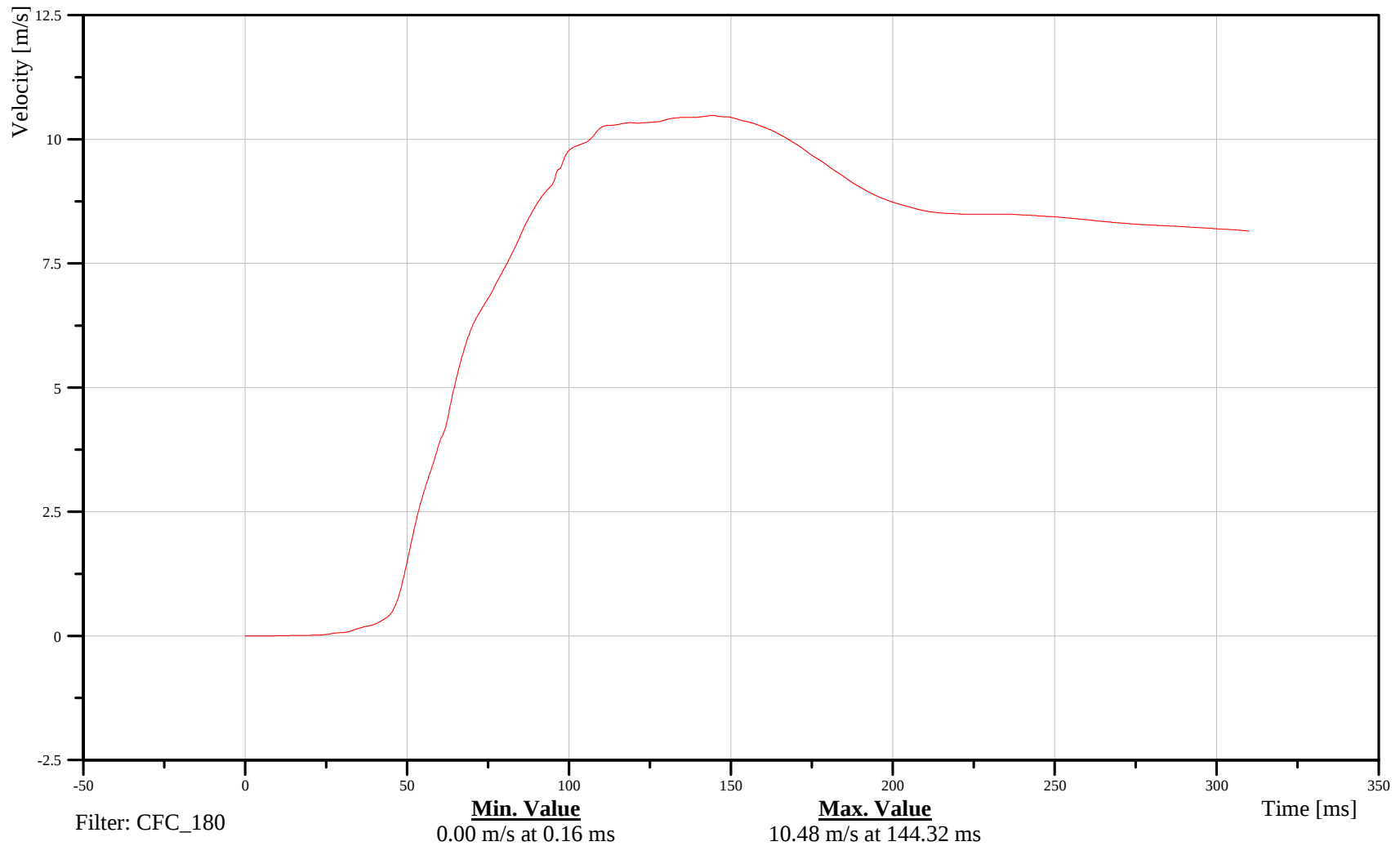
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT VELOCITY

Customer: NHTSA
Test Number: C70202

14RIBSLURESHVEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-76

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

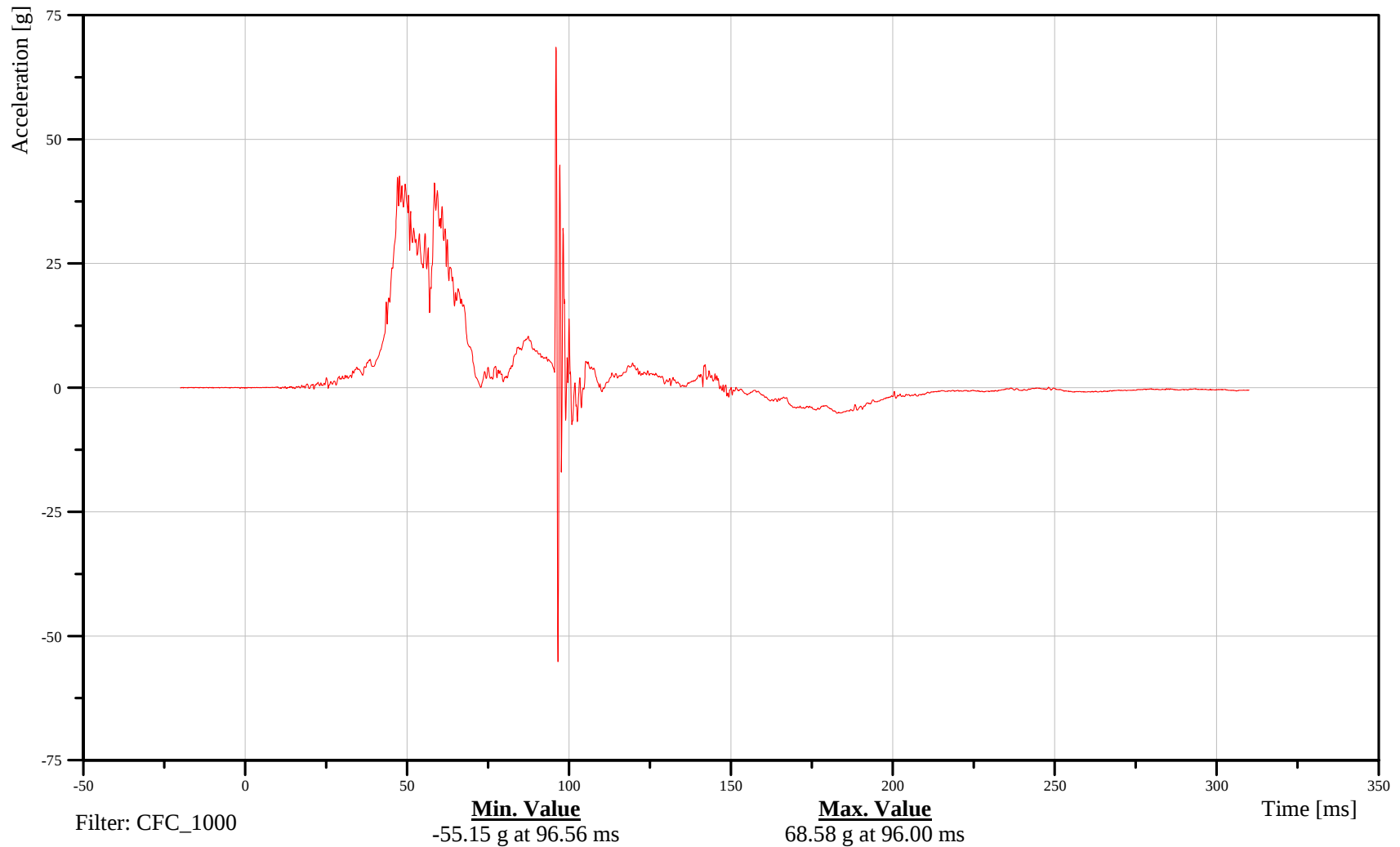
Customer: NHTSA

Test Number: C70202

14RIBSLLRESHACYA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-77

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT VELOCITY

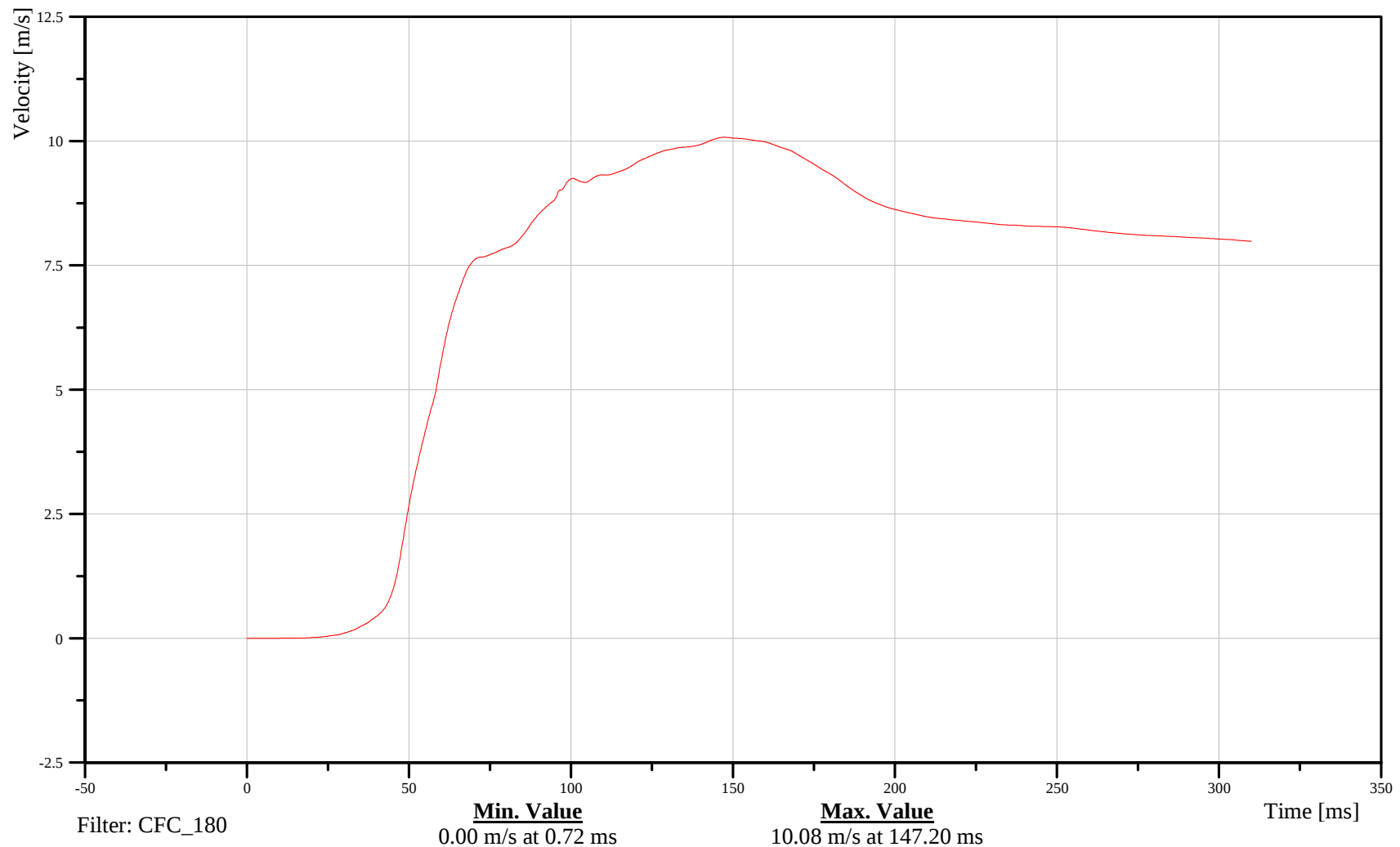
Customer: NHTSA

Test Number: C70202

14RIBSLLRESHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-78

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

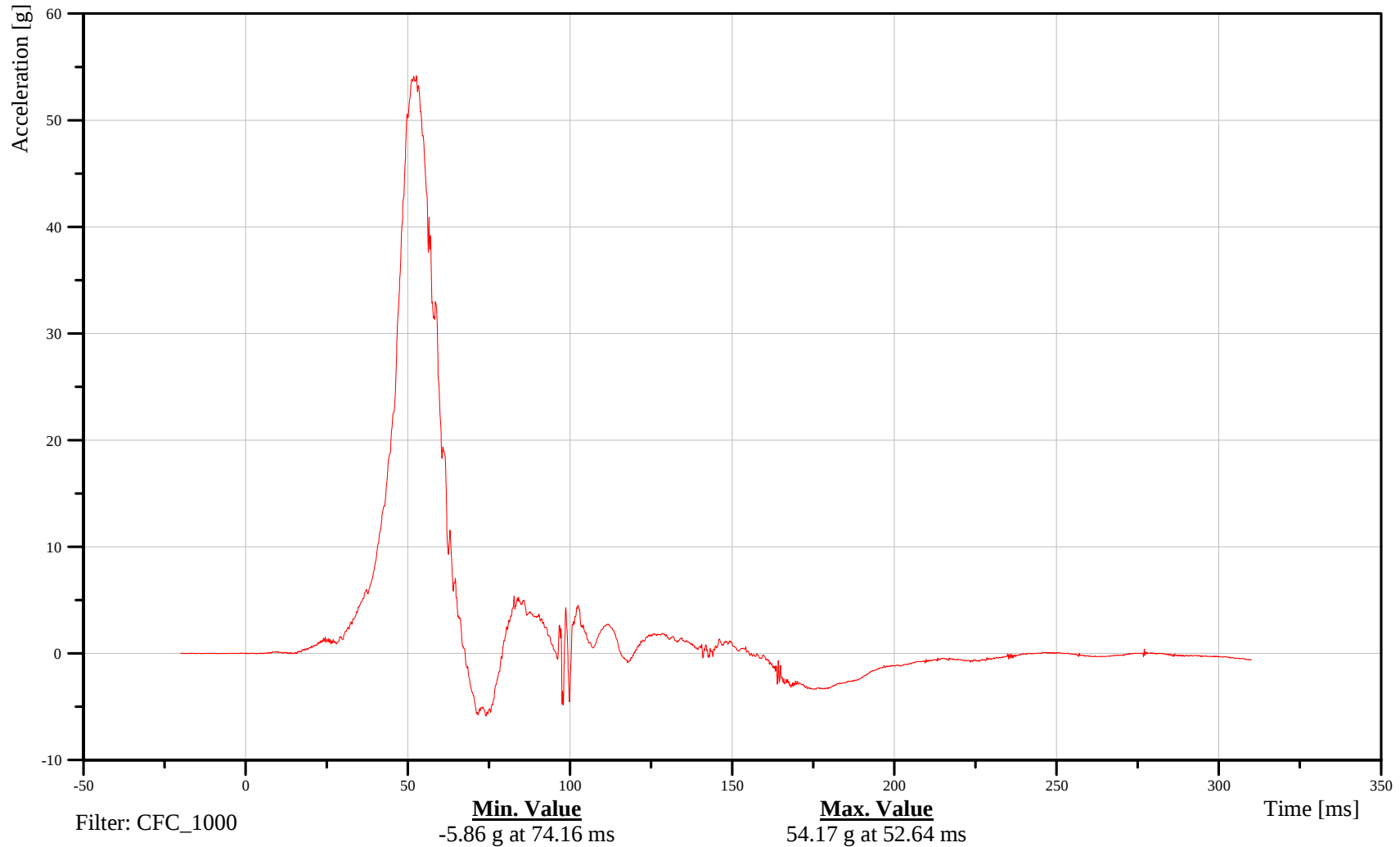
Customer: NHTSA

Test Number: C70202

14SPIN12RDSHACYA

TRC Inc. Test Lab: CTF

Test Number: 070103



B-79

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT VELOCITY

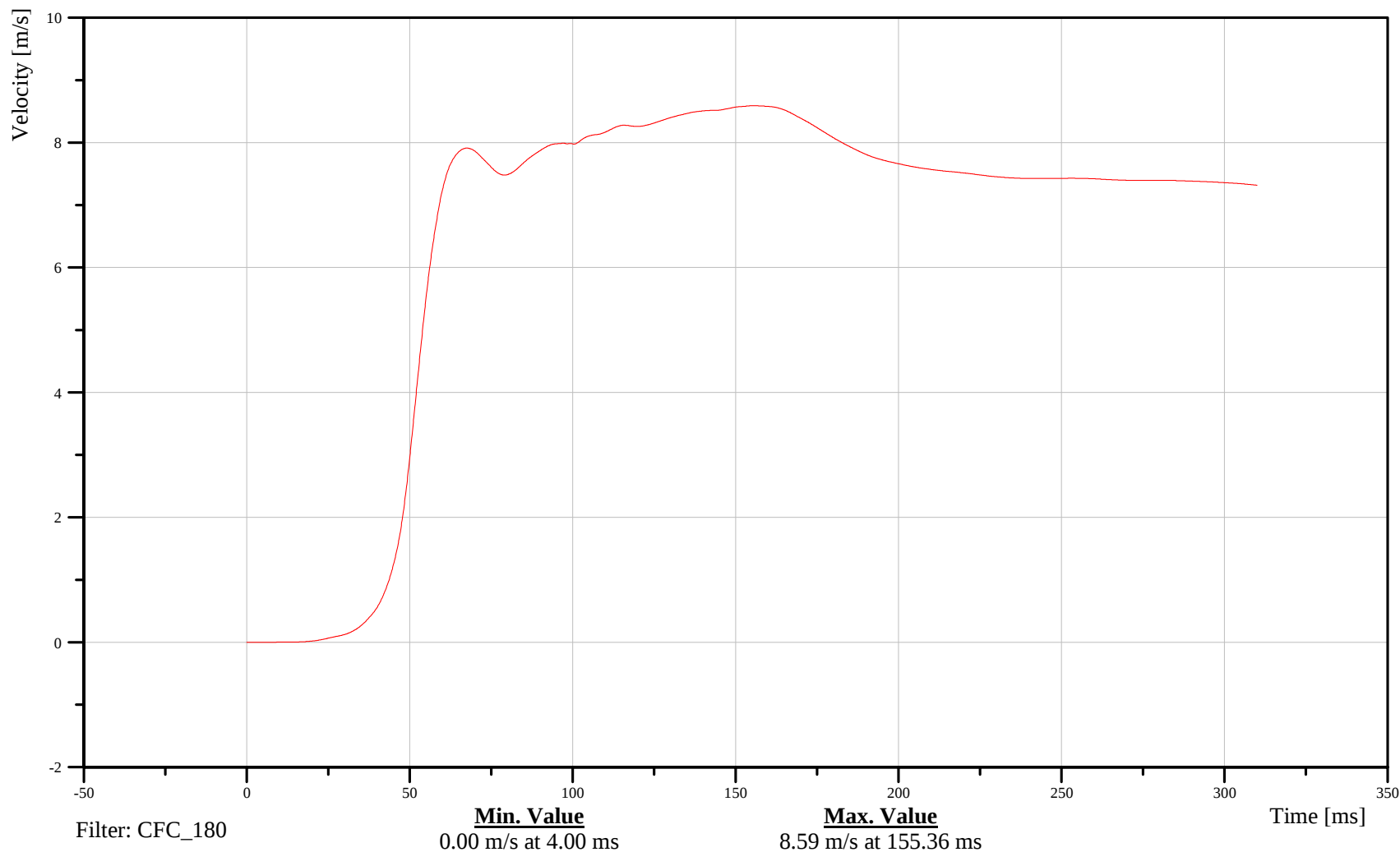
Customer: NHTSA

Test Number: C70202

14SPIN12RDSHVEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-80

070103

Test Vehicle Instrumentation Plots



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT X-AXIS ACCELERATION

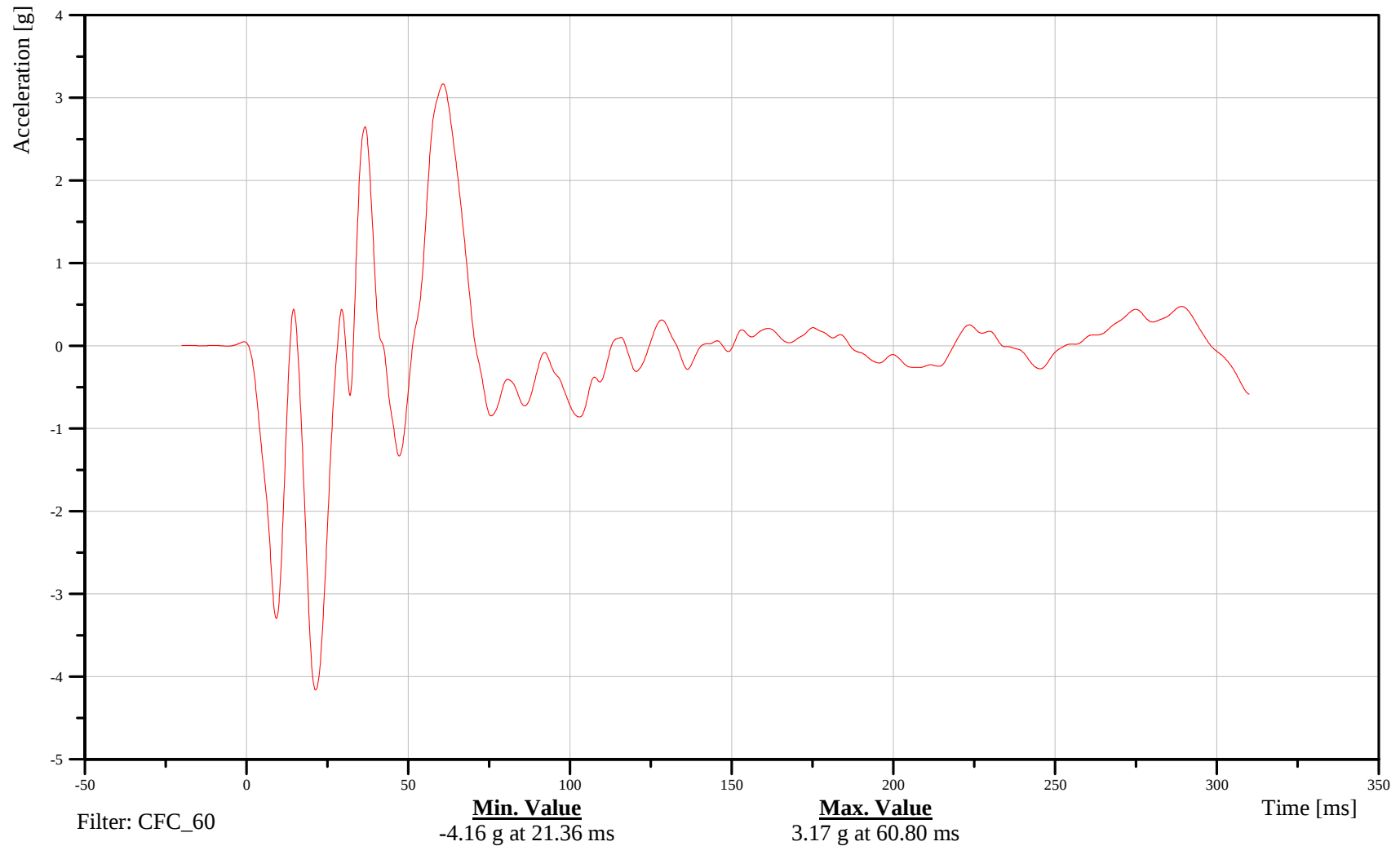
Customer: NHTSA

Test Number: C70202

16SILBFR0000ACXD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-82

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

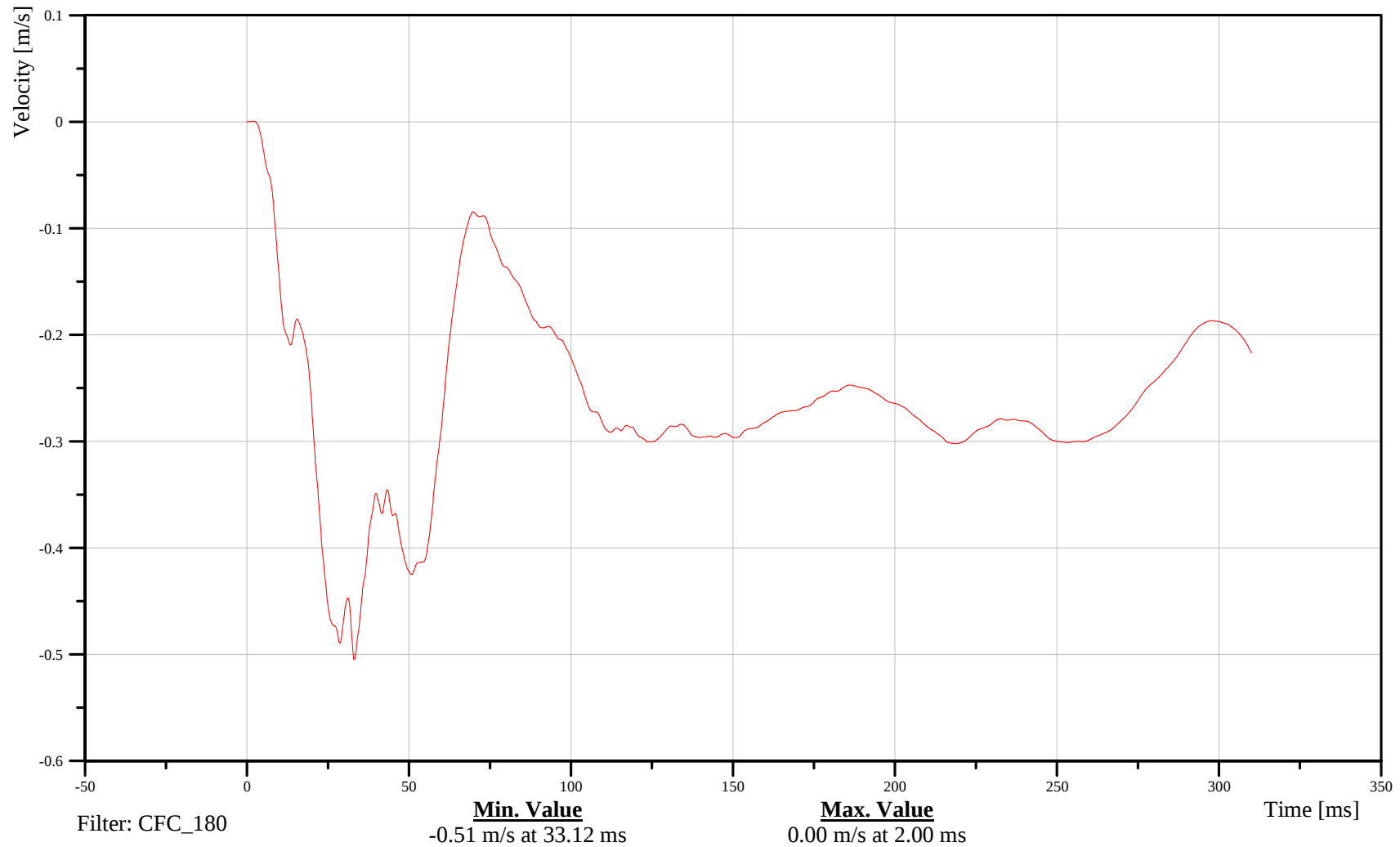
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT X-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

16SILBFR0000VEXC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-83

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION

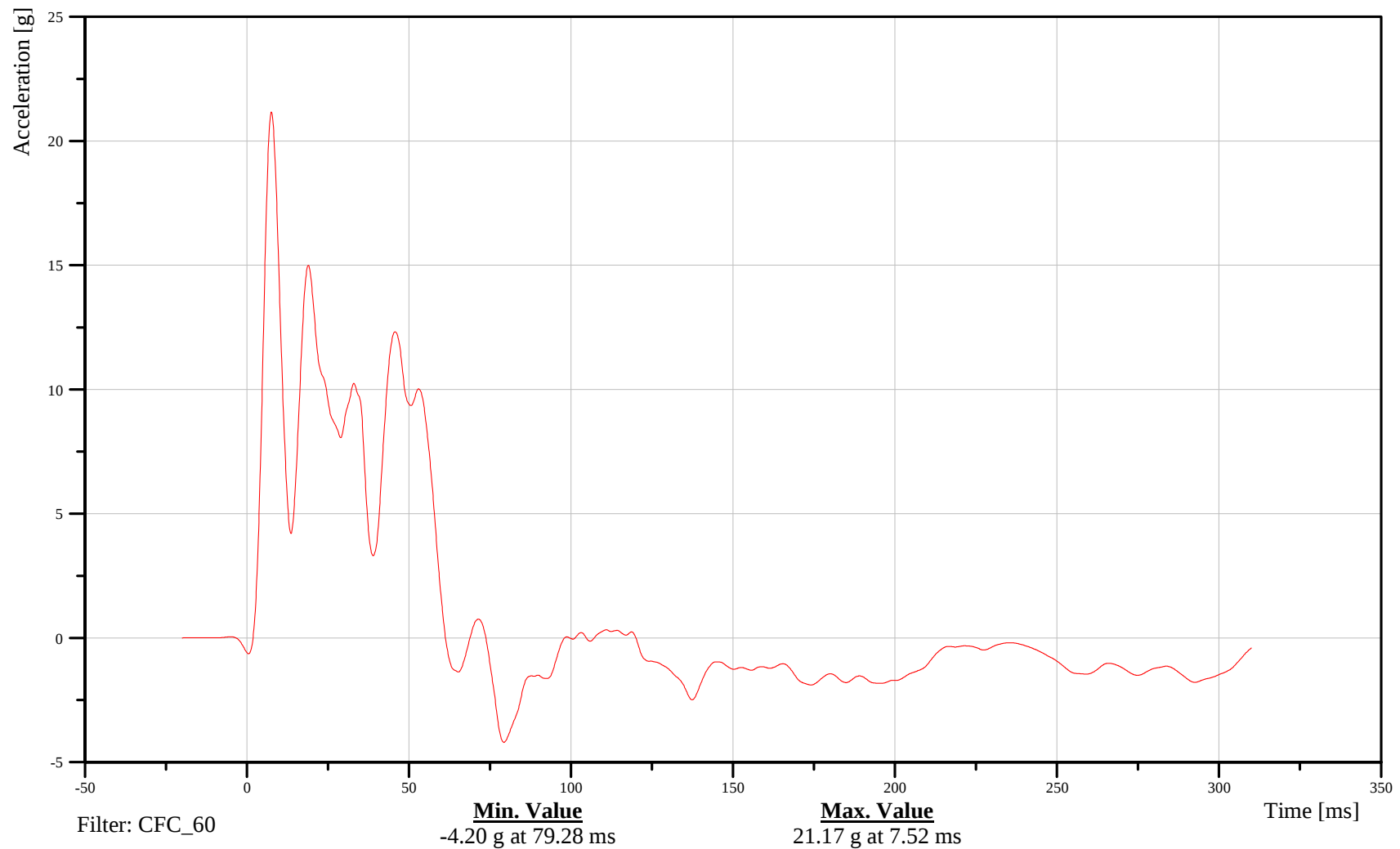
Customer: NHTSA

Test Number: C70202

16SILBFR0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-84

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

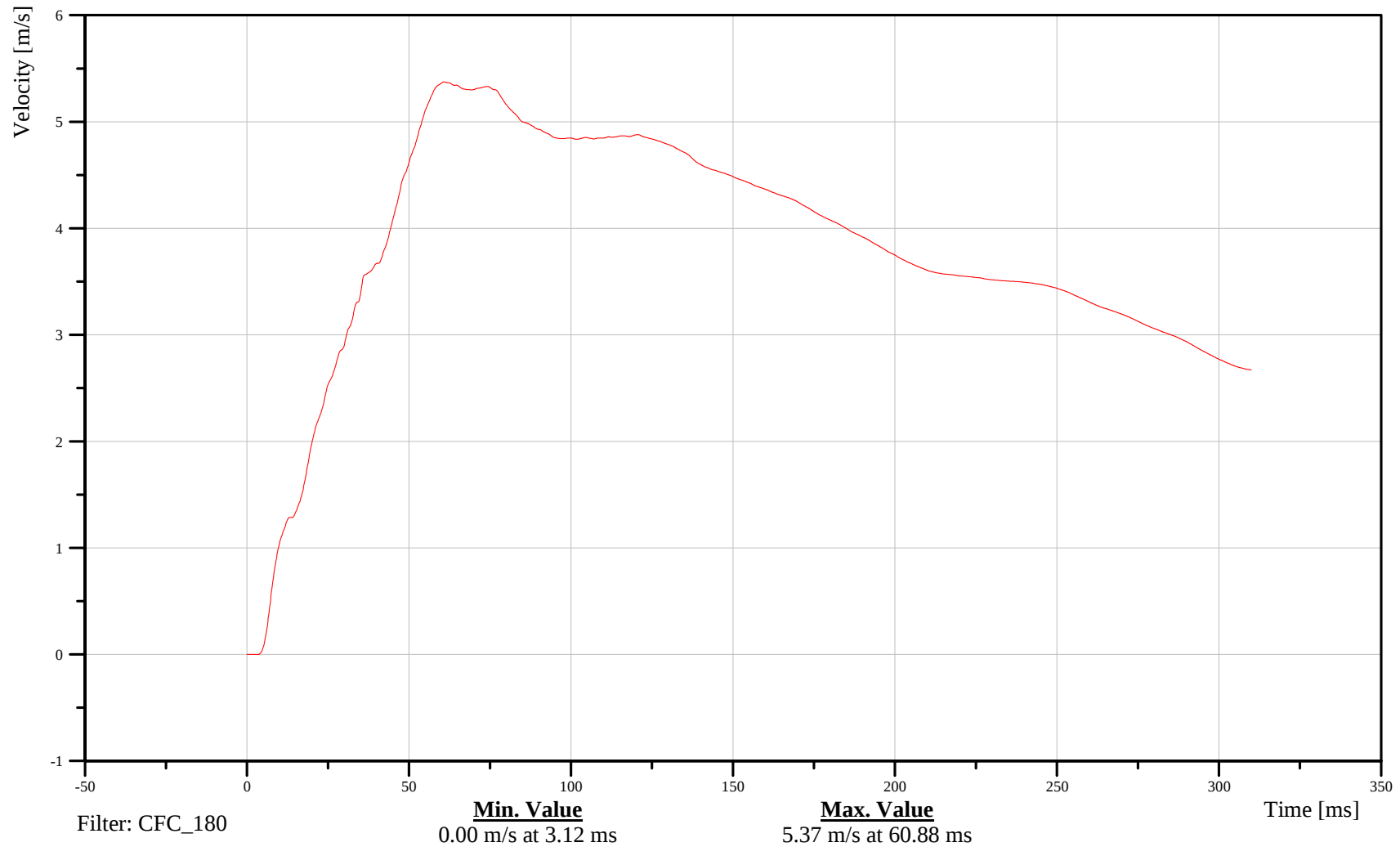
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

16SILBFR0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-85

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

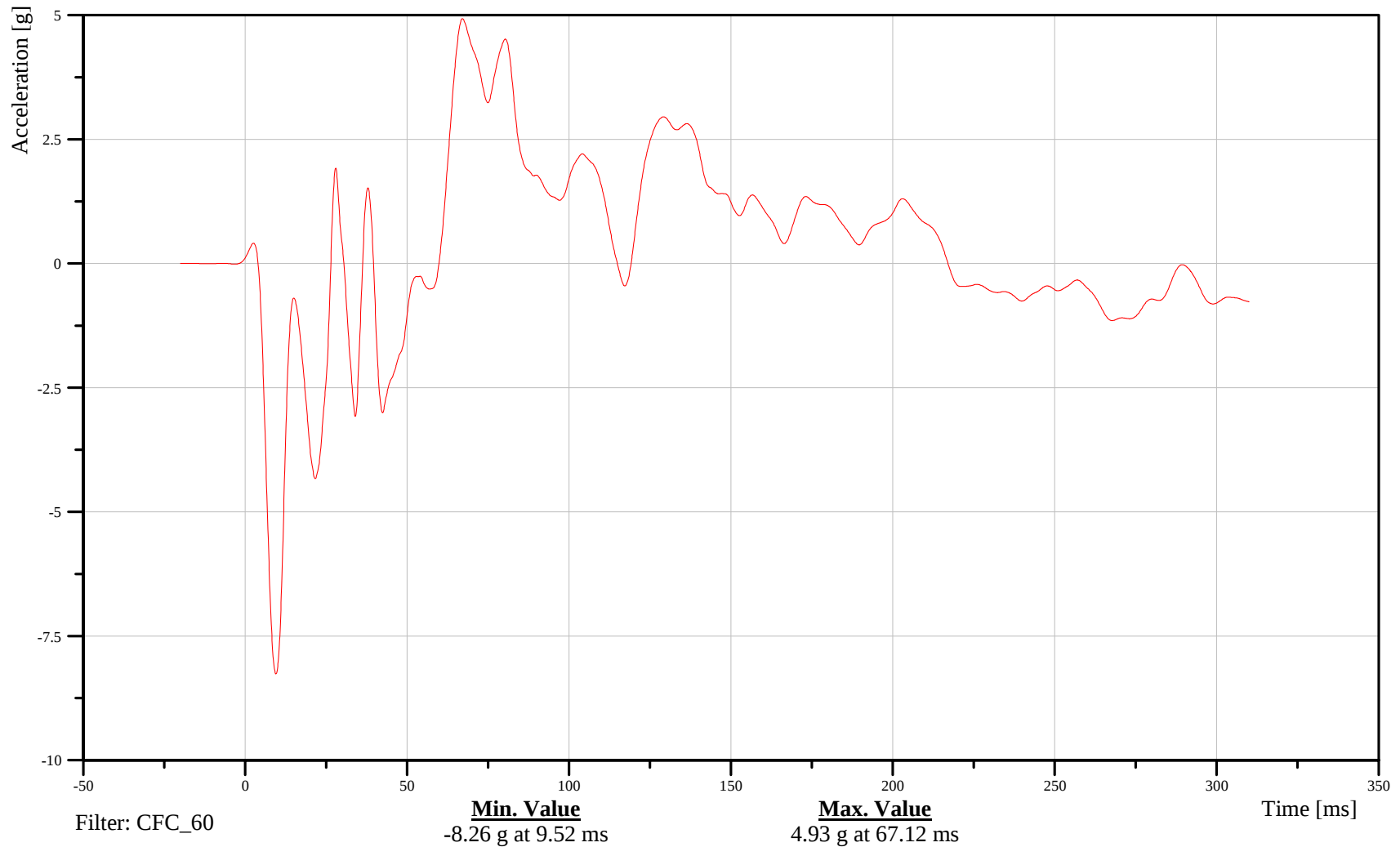
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT Z-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

16SILBFR0000ACZD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-86

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT Z-AXIS VELOCITY

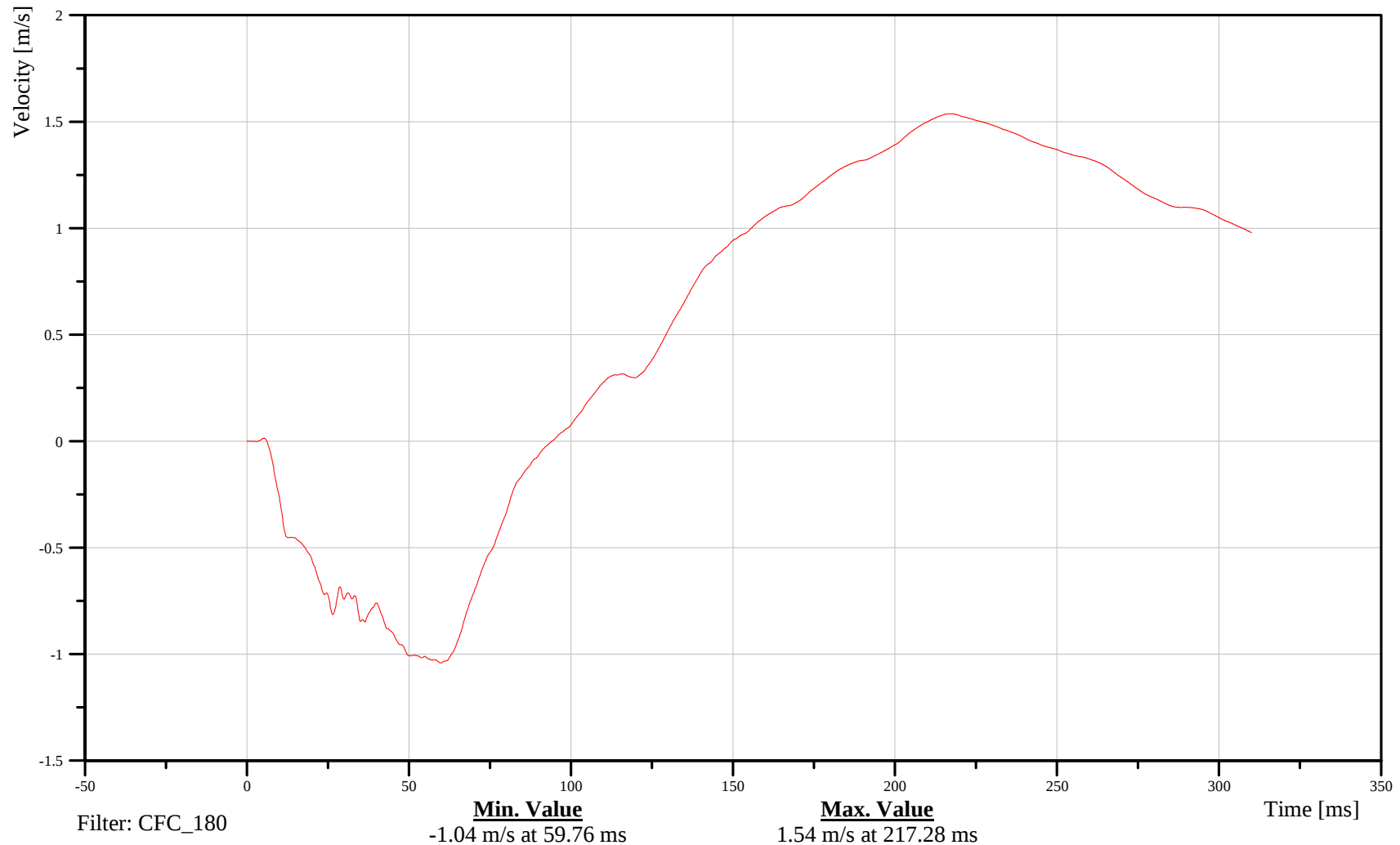
Customer: NHTSA

Test Number: C70202

16SILBFR0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-87

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

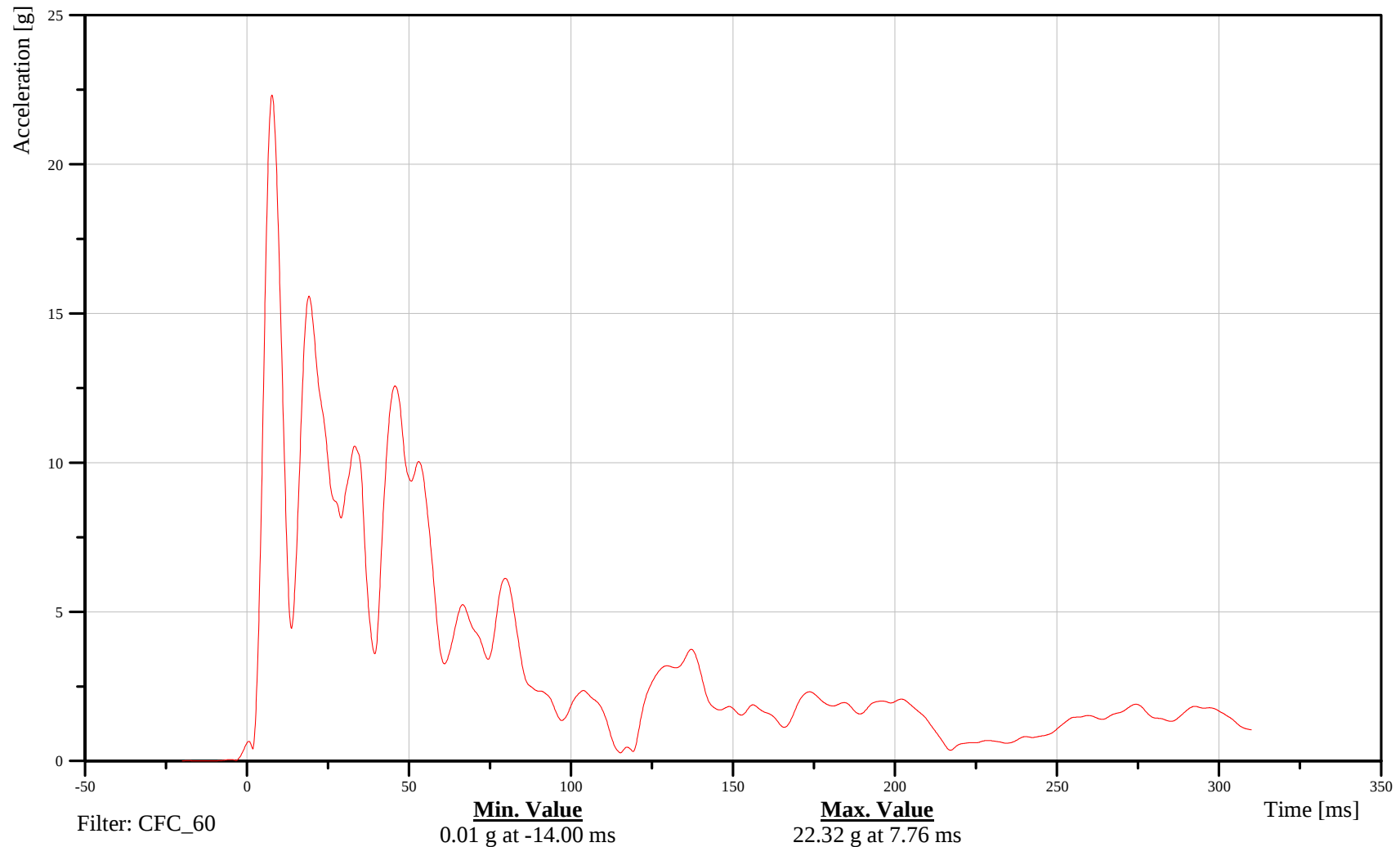
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

16SILBFR0000ACRD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-88

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

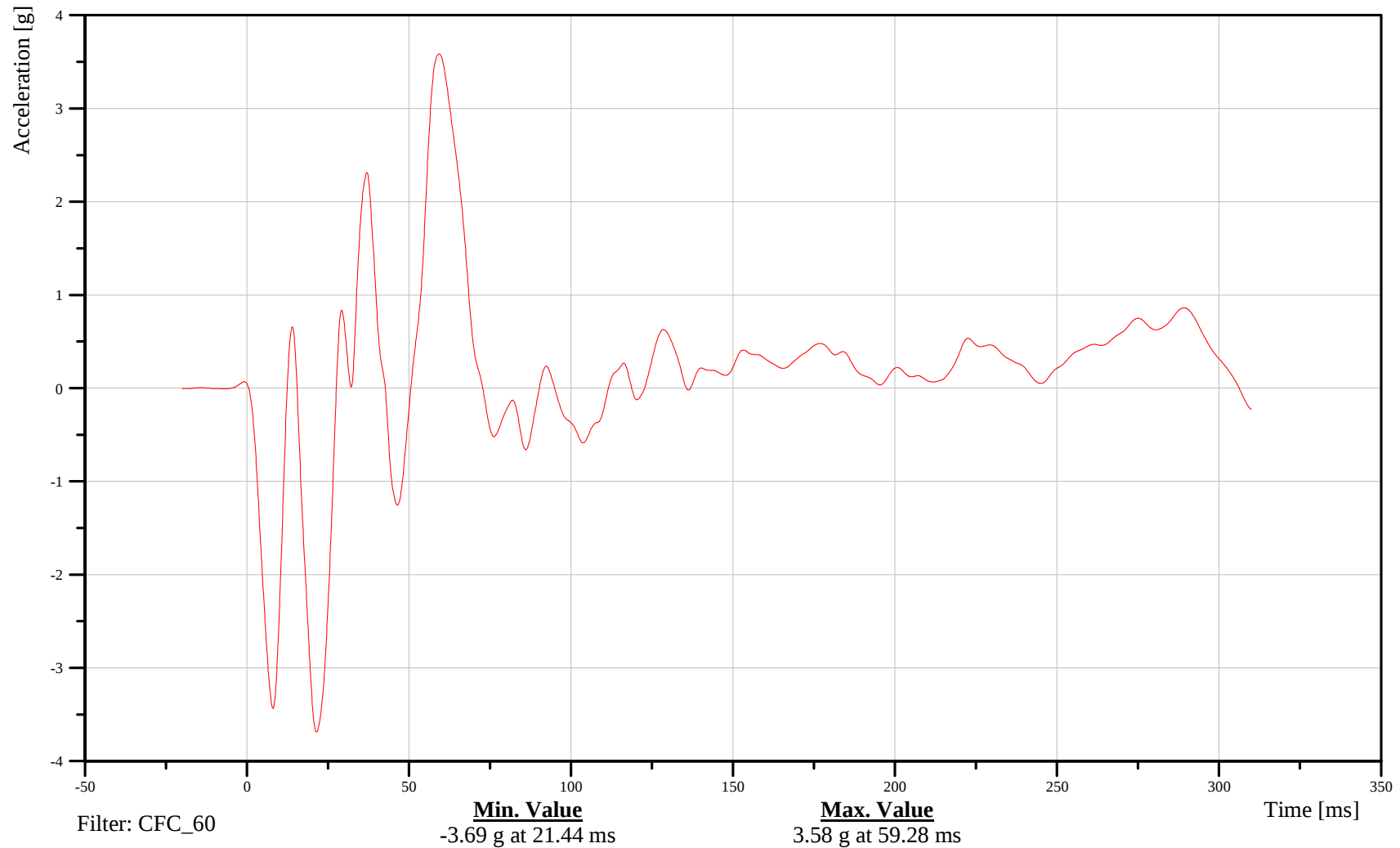
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT REAR SEAT X-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

16SILBRE0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-89

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

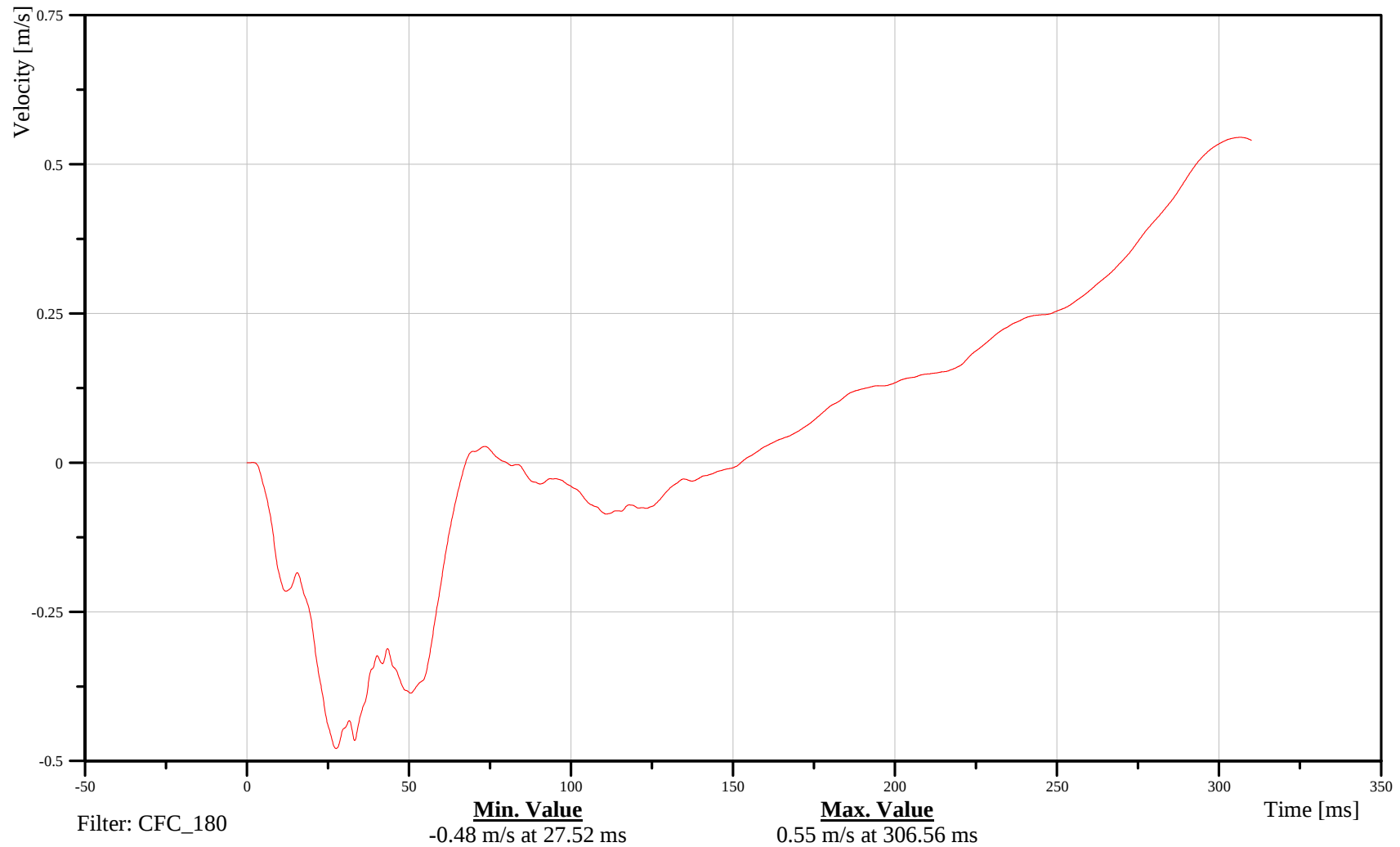
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT REAR SEAT X-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

16SILBRE0000VEXC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-90

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

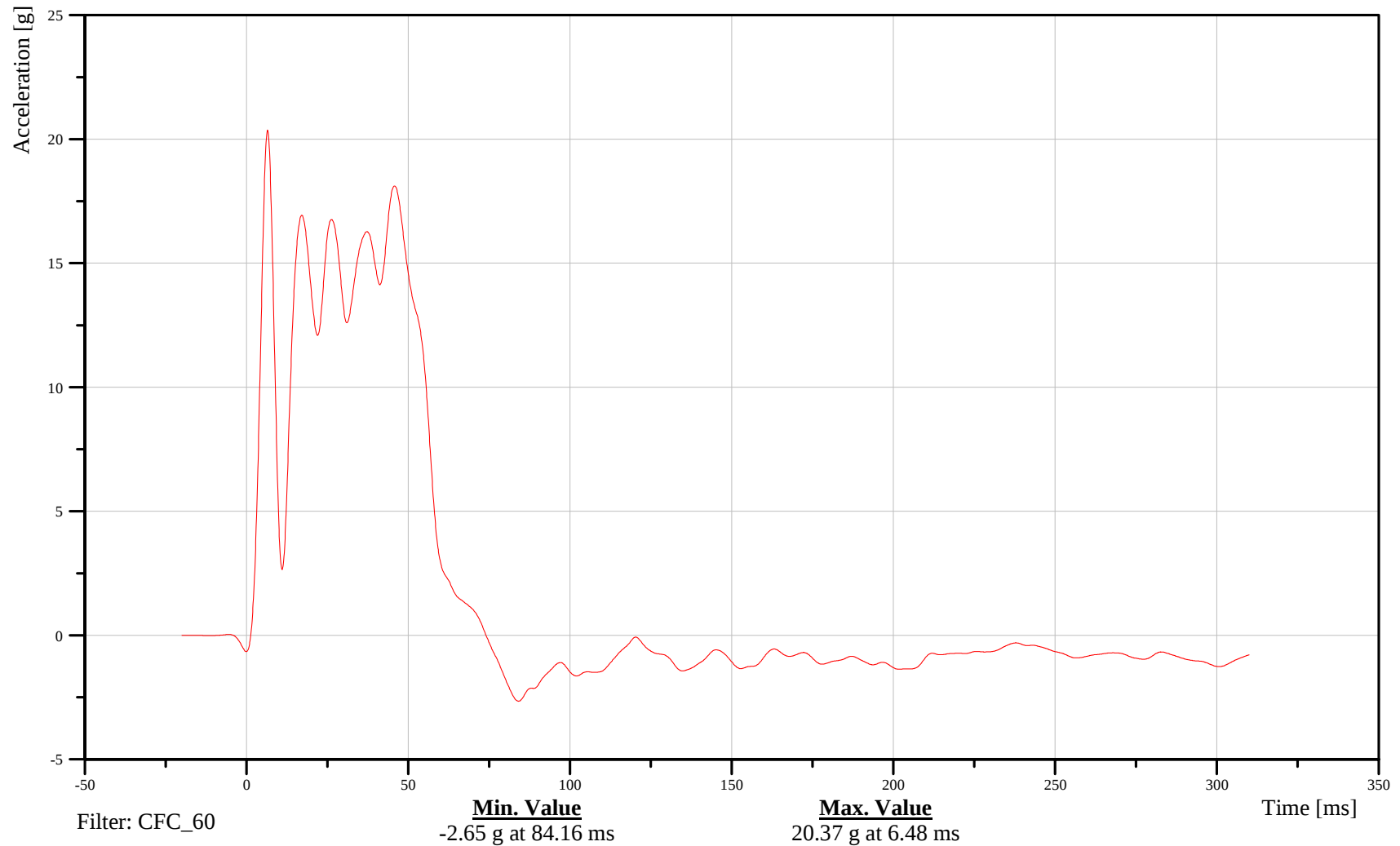
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT REAR SEAT Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

16SILBRE0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-91

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT SIDE SILL AT REAR SEAT Y-AXIS VELOCITY

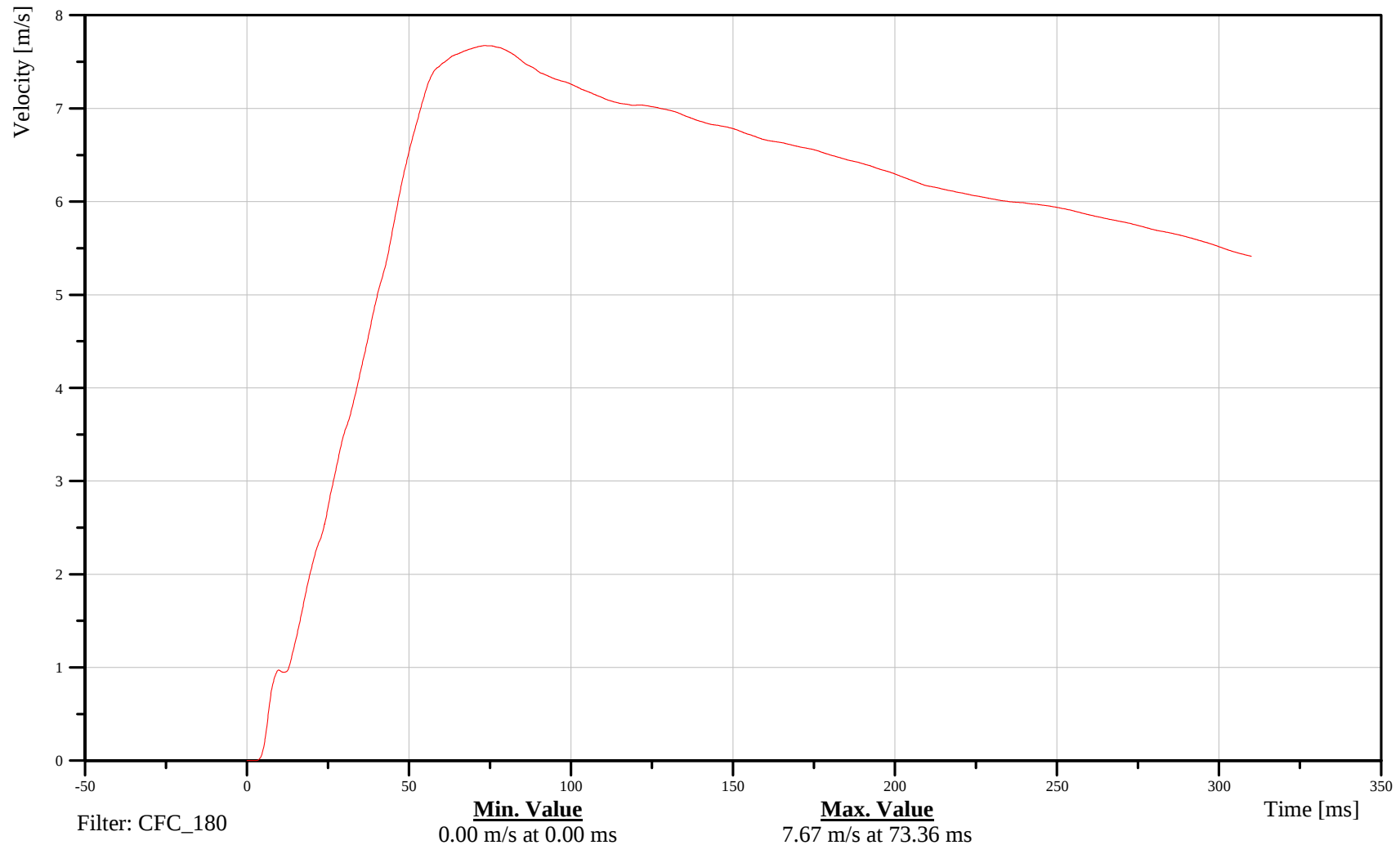
Customer: NHTSA

Test Number: C70202

16SILBRE0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-92

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT SIDE SILL AT REAR SEAT Z-AXIS ACCELERATION

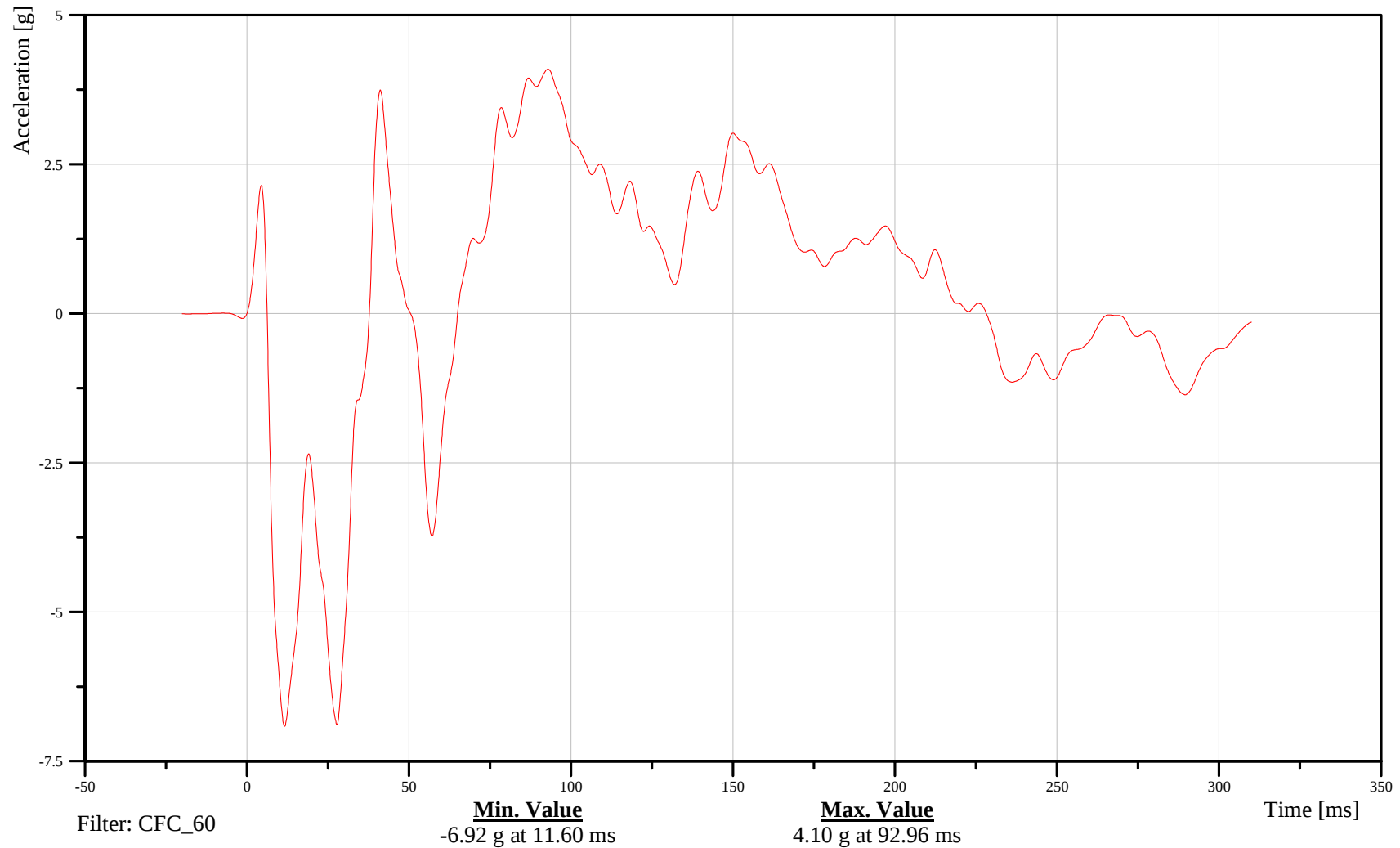
Customer: NHTSA

Test Number: C70202

16SILBRE0000ACZD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-93

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT SIDE SILL AT REAR SEAT Z-AXIS VELOCITY

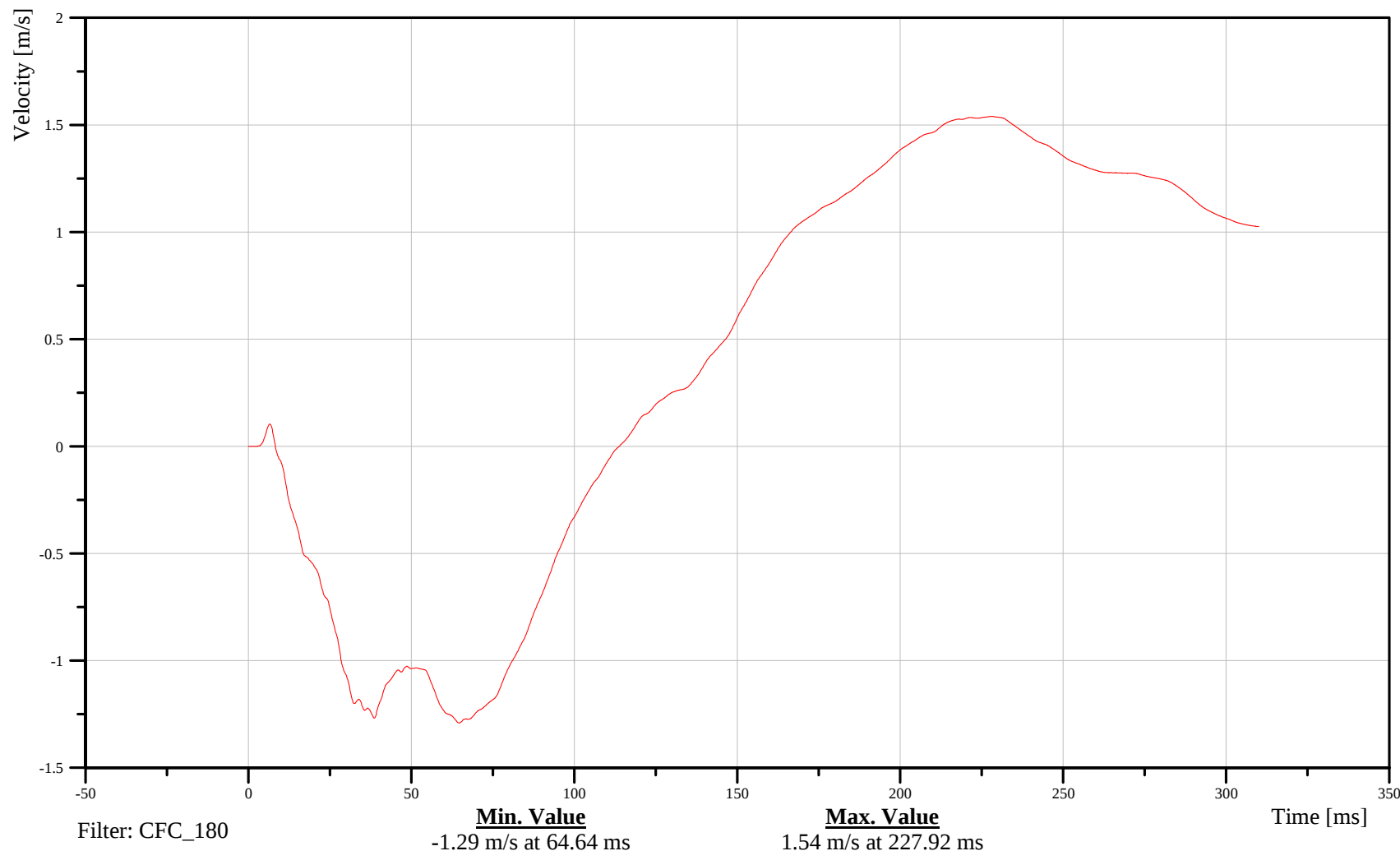
Customer: NHTSA

Test Number: C70202

16SILBRE0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-94

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

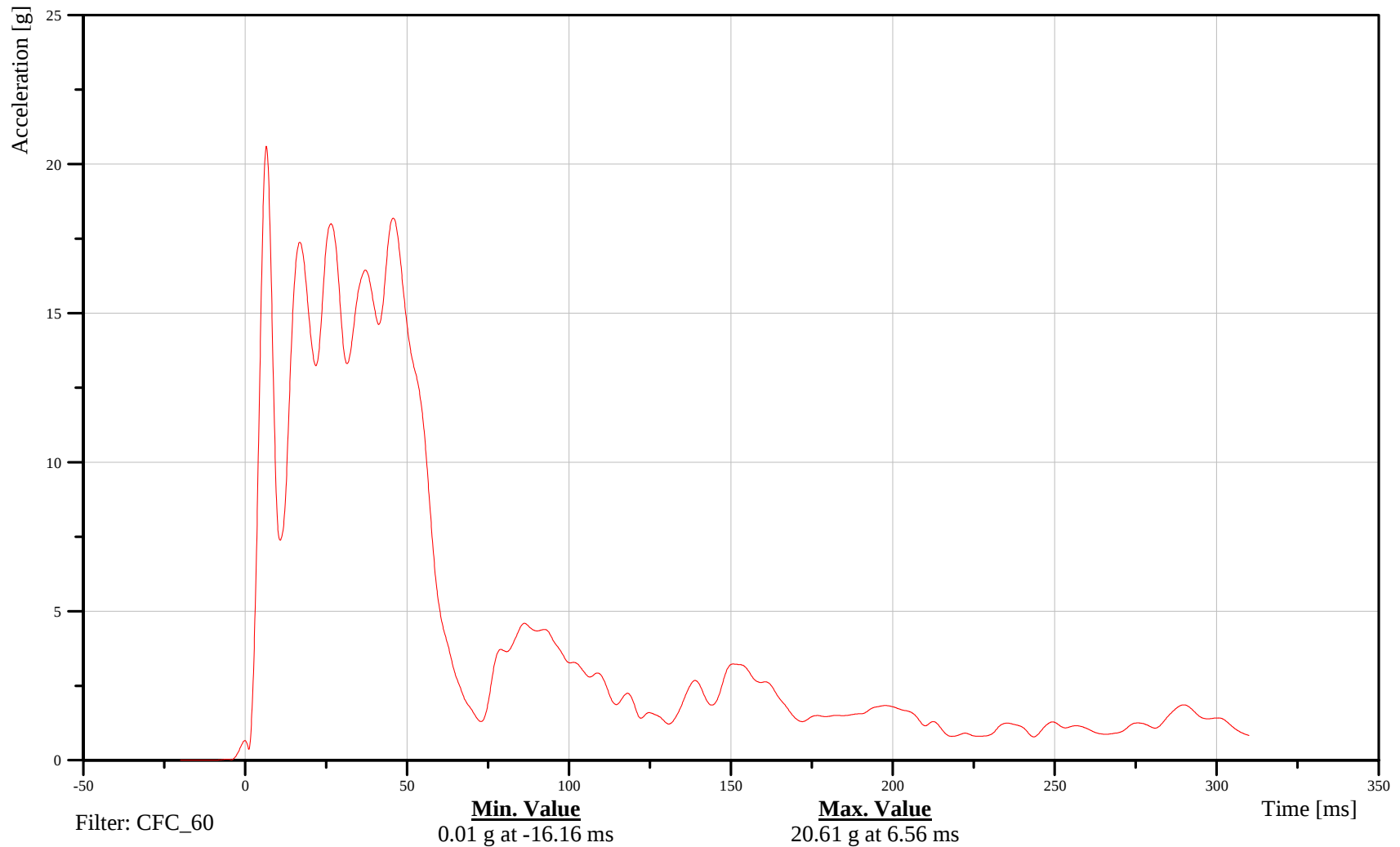
Date: 01/03/2007
Time: 15:44

RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

16SILBRE0000ACRD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-95

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

REAR FLOORPAN ABOVE AXLE X-AXIS ACCELERATION

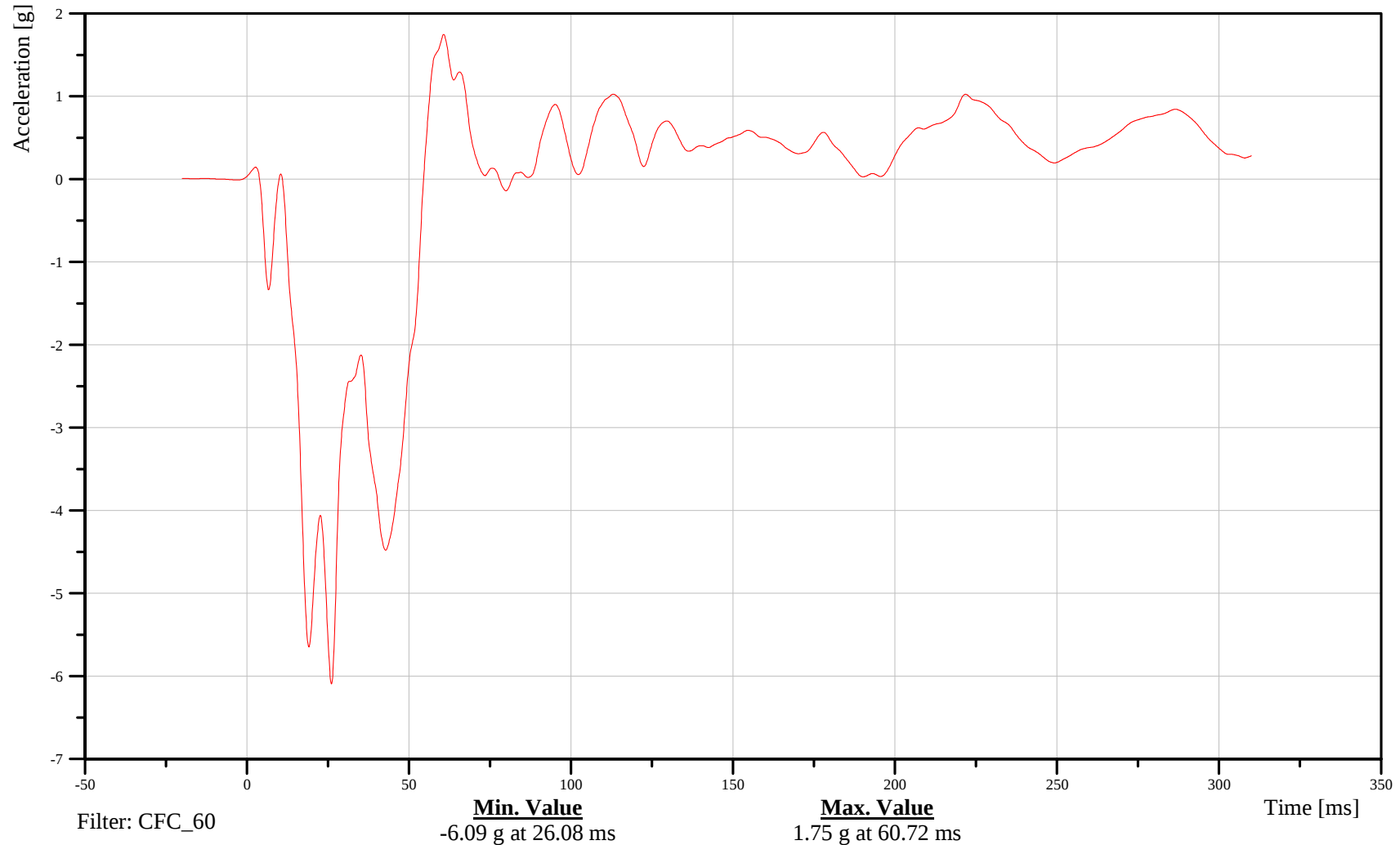
Customer: NHTSA

Test Number: C70202

18FORA000000ACXD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-96

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

REAR FLOORPAN ABOVE AXLE X-AXIS VELOCITY

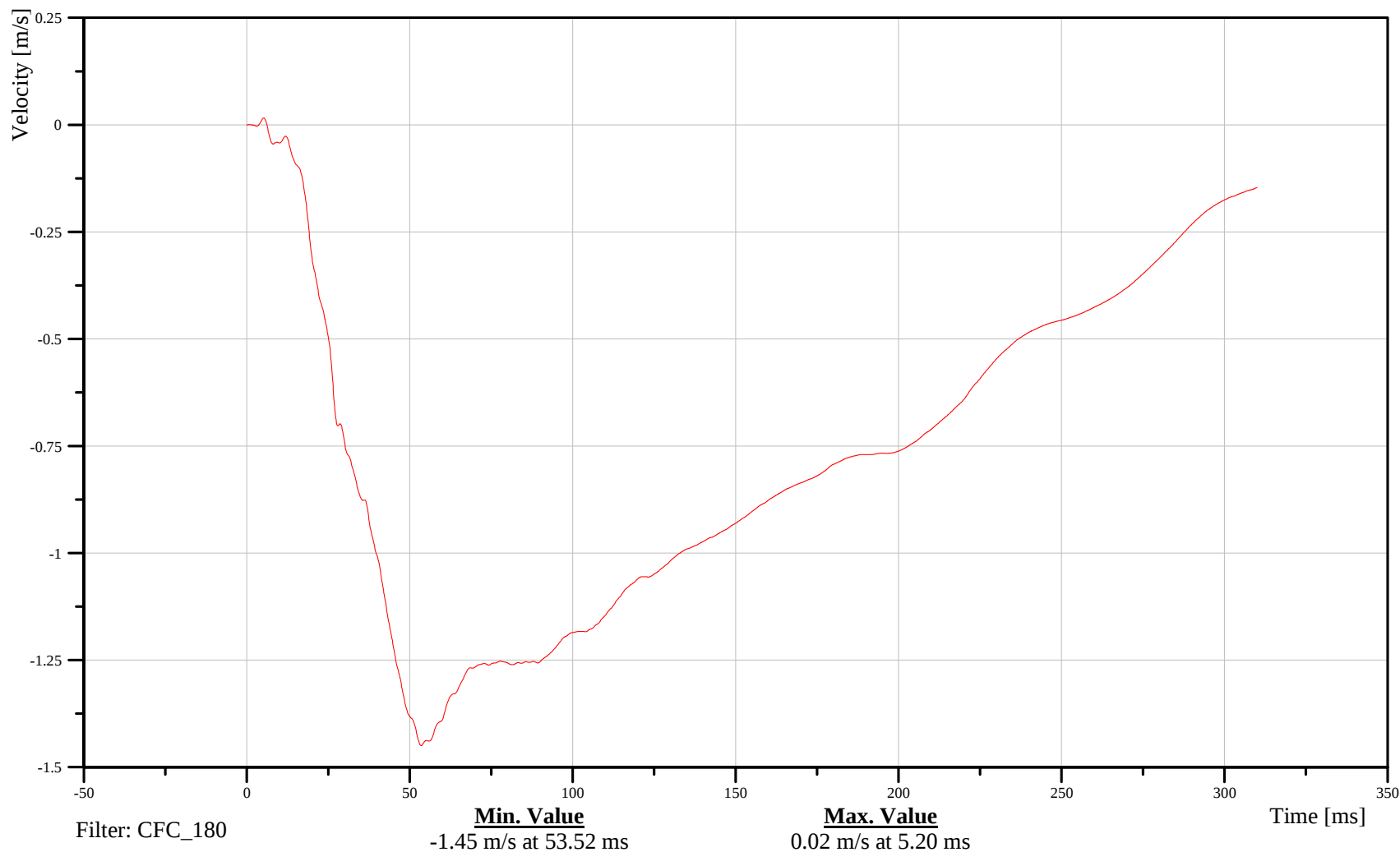
Customer: NHTSA

Test Number: C70202

18FORA000000VEXC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-97

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

REAR FLOORPAN ABOVE AXLE Y-AXIS ACCELERATION

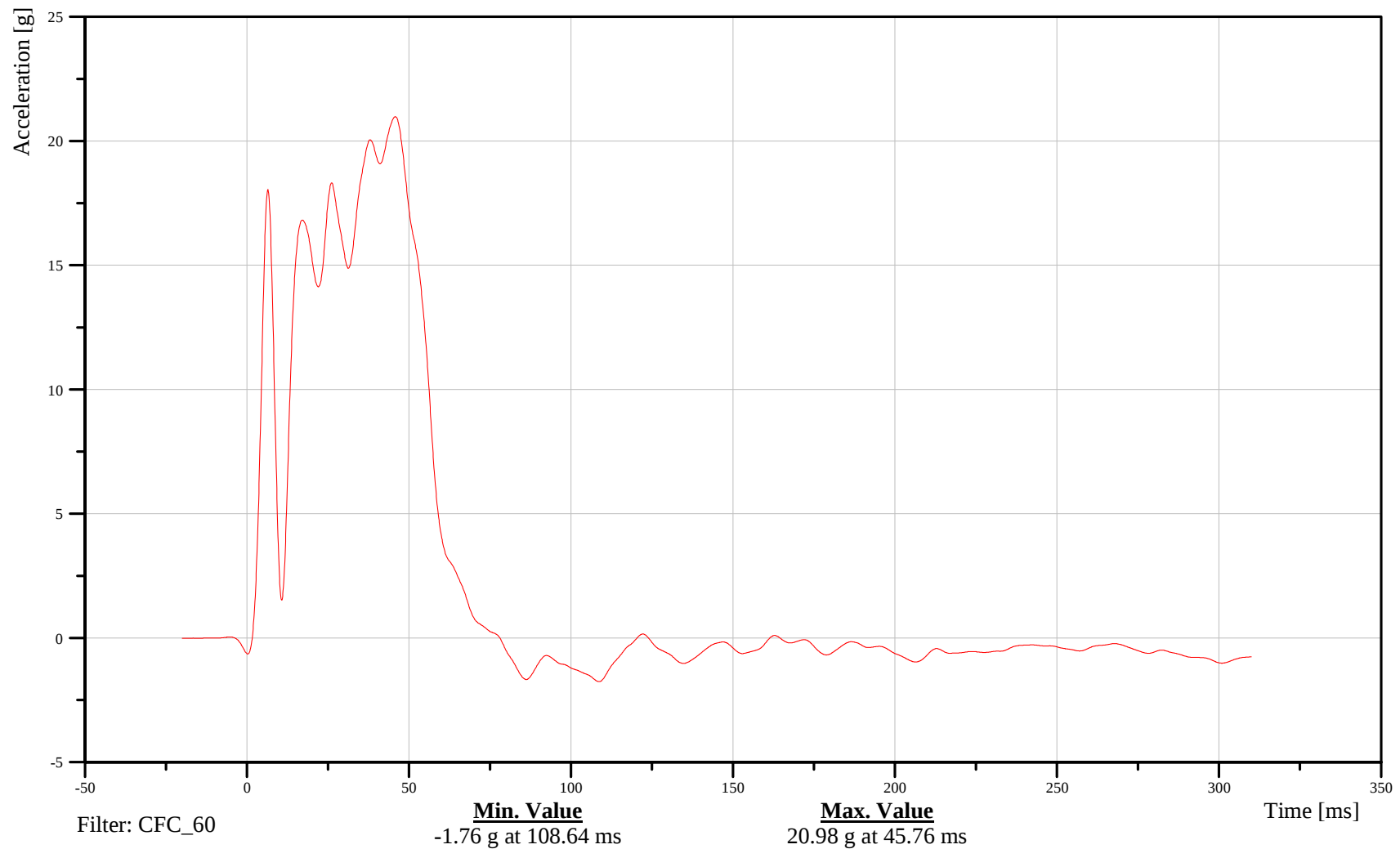
Customer: NHTSA

Test Number: C70202

18FORA000000ACYD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-98

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

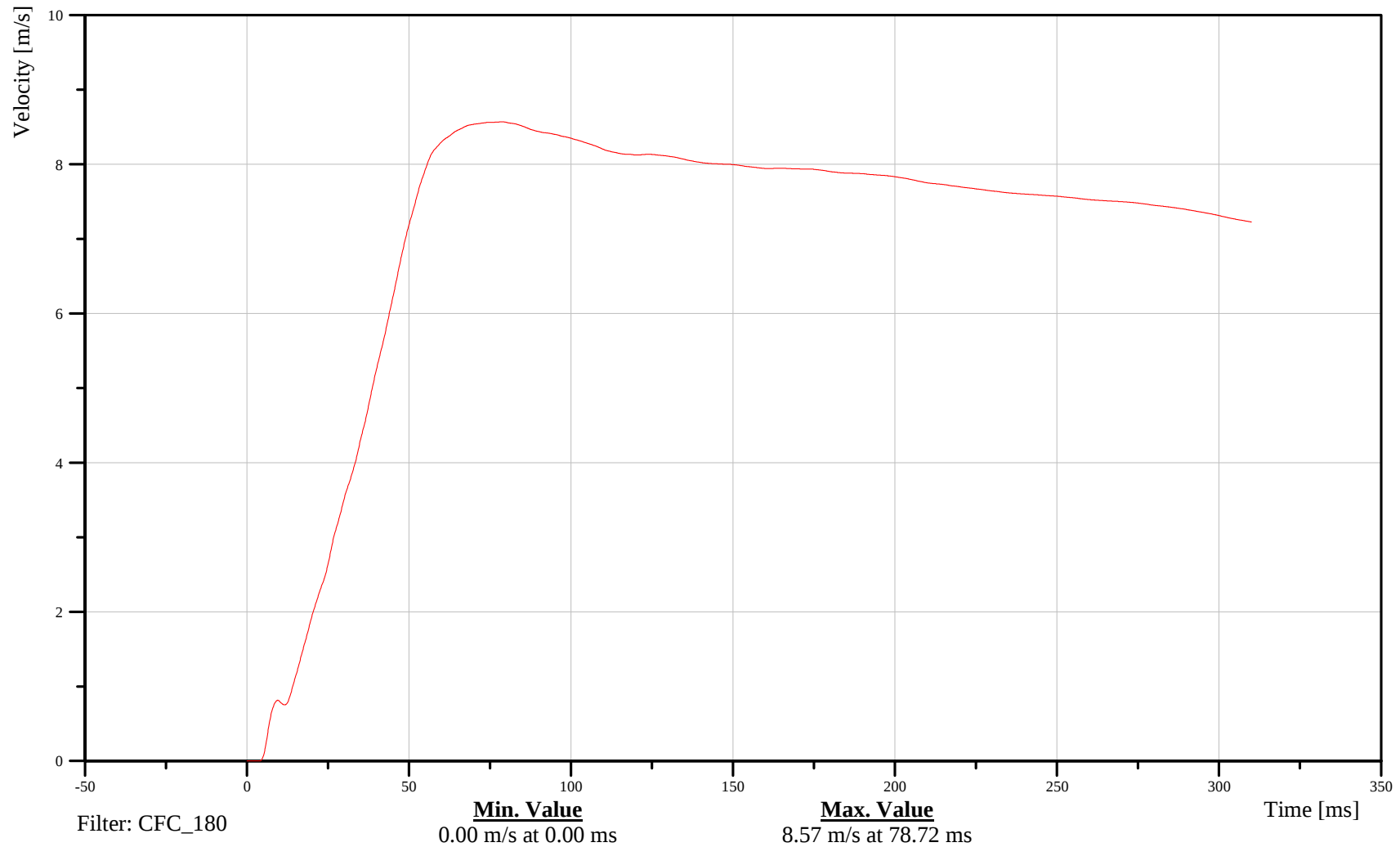
Date: 01/03/2007
Time: 15:44

REAR FLOORPAN ABOVE AXLE Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

18FORA000000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-99

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

REAR FLOORPAN ABOVE AXLE Z-AXIS ACCELERATION

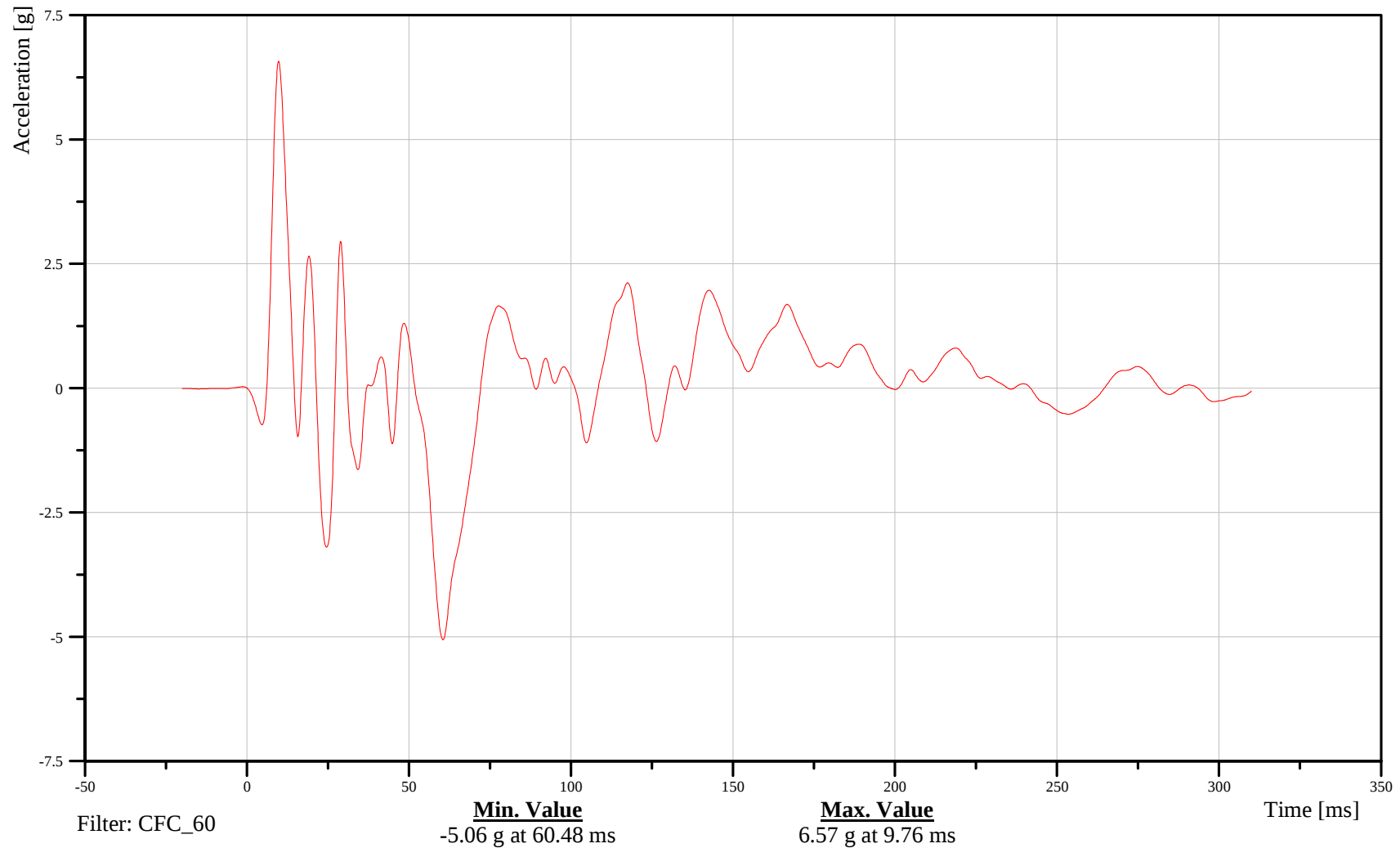
Customer: NHTSA

Test Number: C70202

18FORA000000ACZD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-100

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

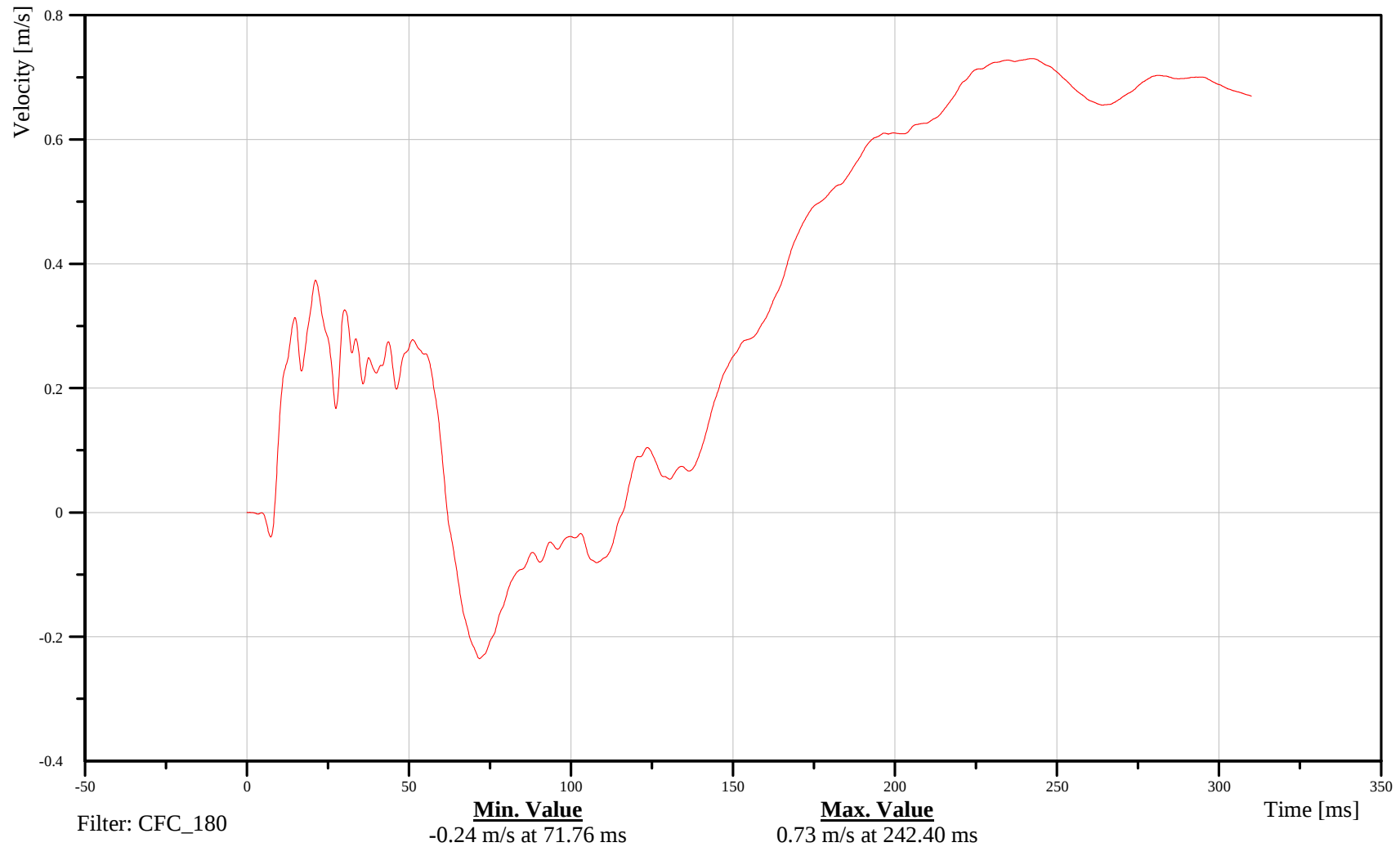
Date: 01/03/2007
Time: 15:44

REAR FLOORPAN ABOVE AXLE Z-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

18FORA000000VEZC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-101

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

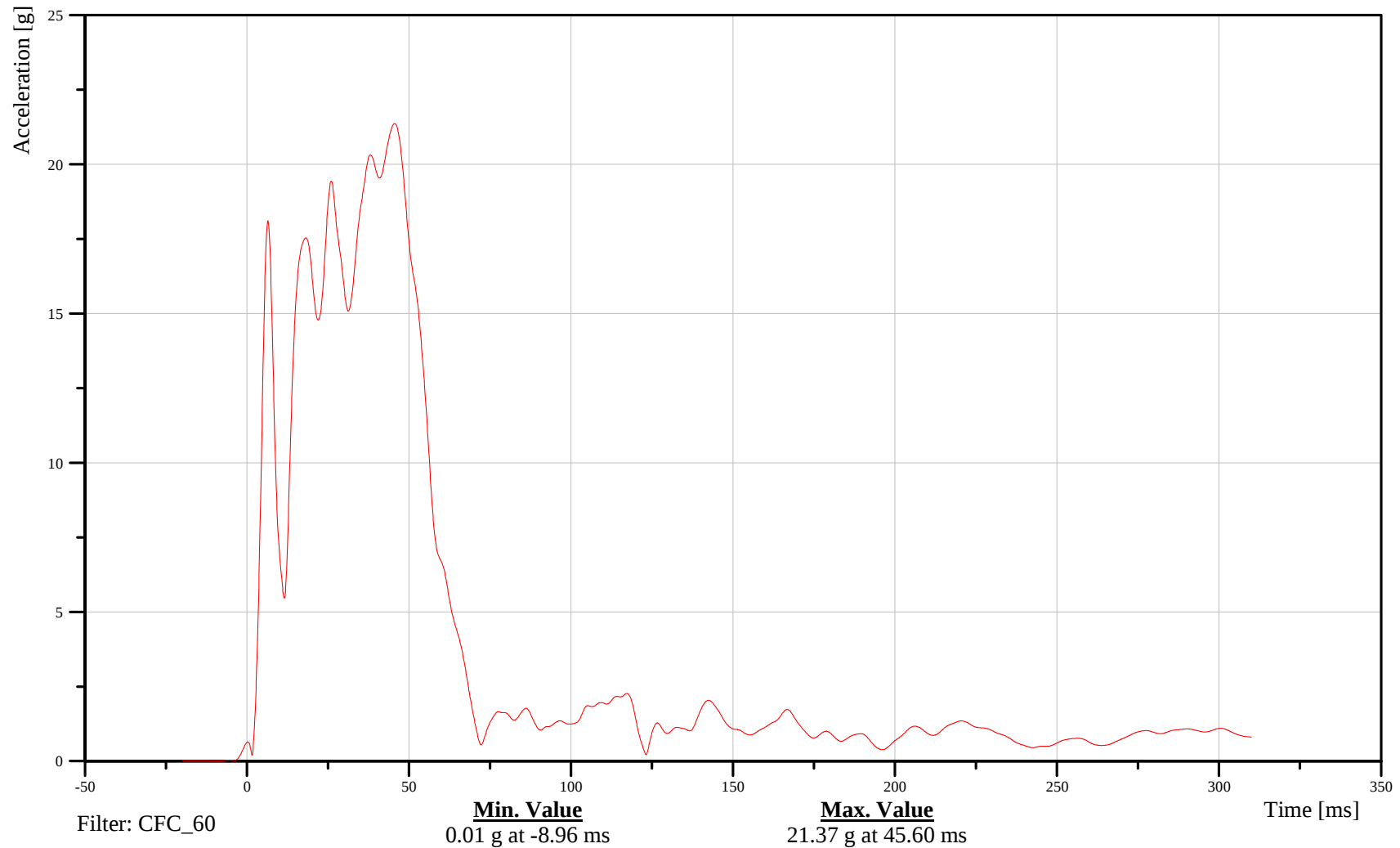
Date: 01/03/2007
Time: 15:44

REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

18FORA000000ACRD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-102

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION

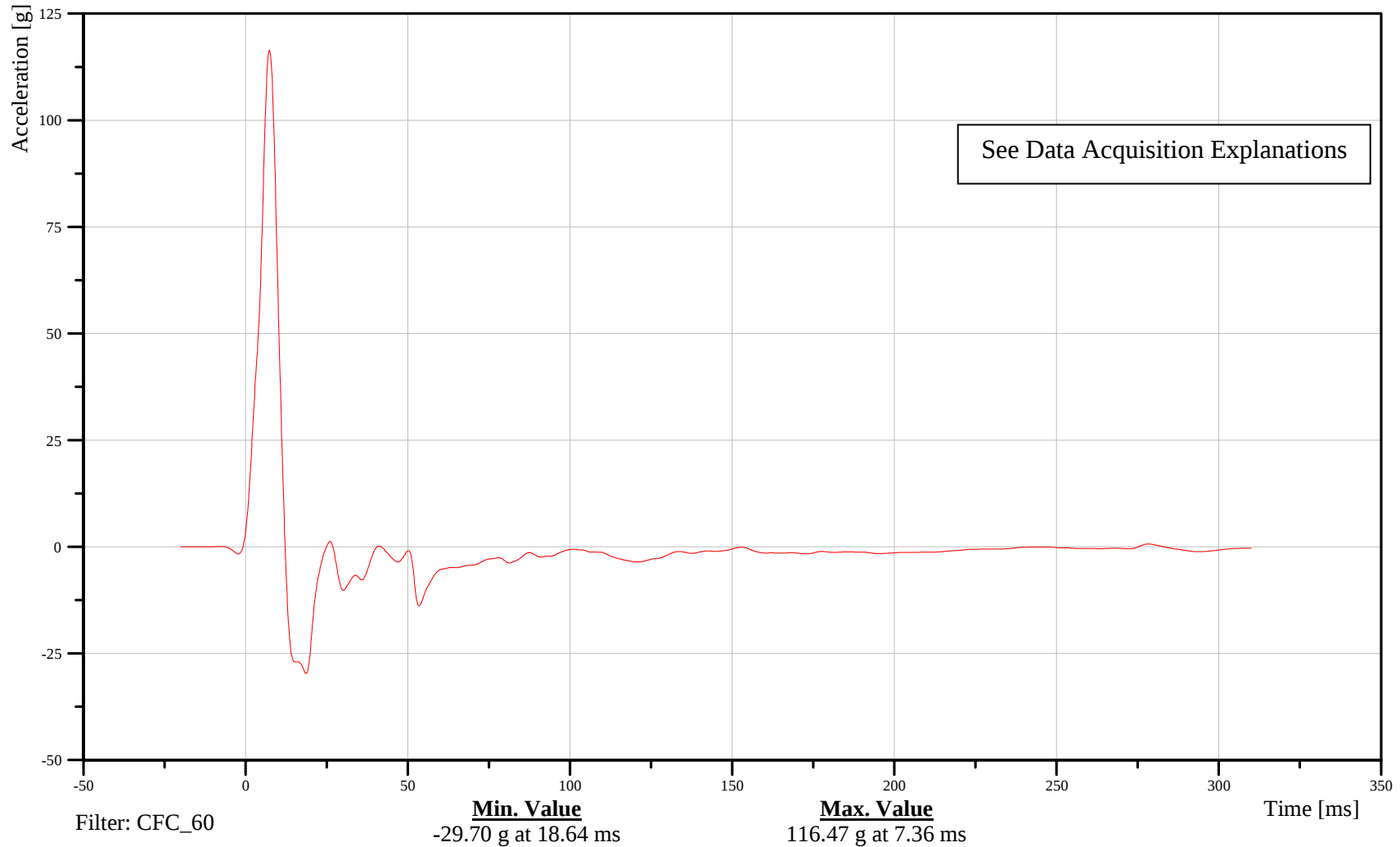
Customer: NHTSA

Test Number: C70202

14SILBFR0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-103

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

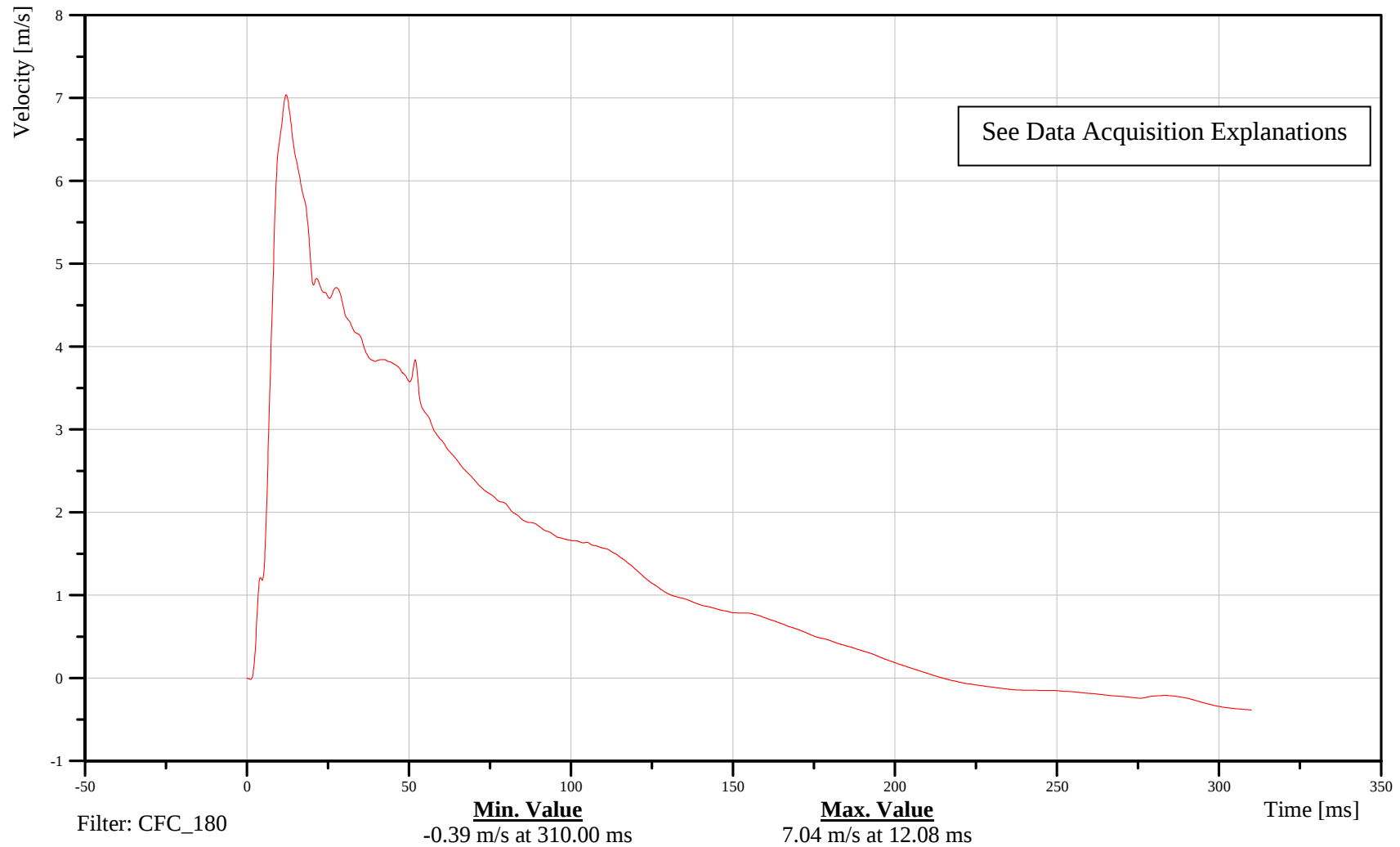
Date: 01/03/2007
Time: 15:44

LEFT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

14SILBFR0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-104

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT SIDE SILL AT FRONT SEAT Y-AXIS DISPLACEMENT

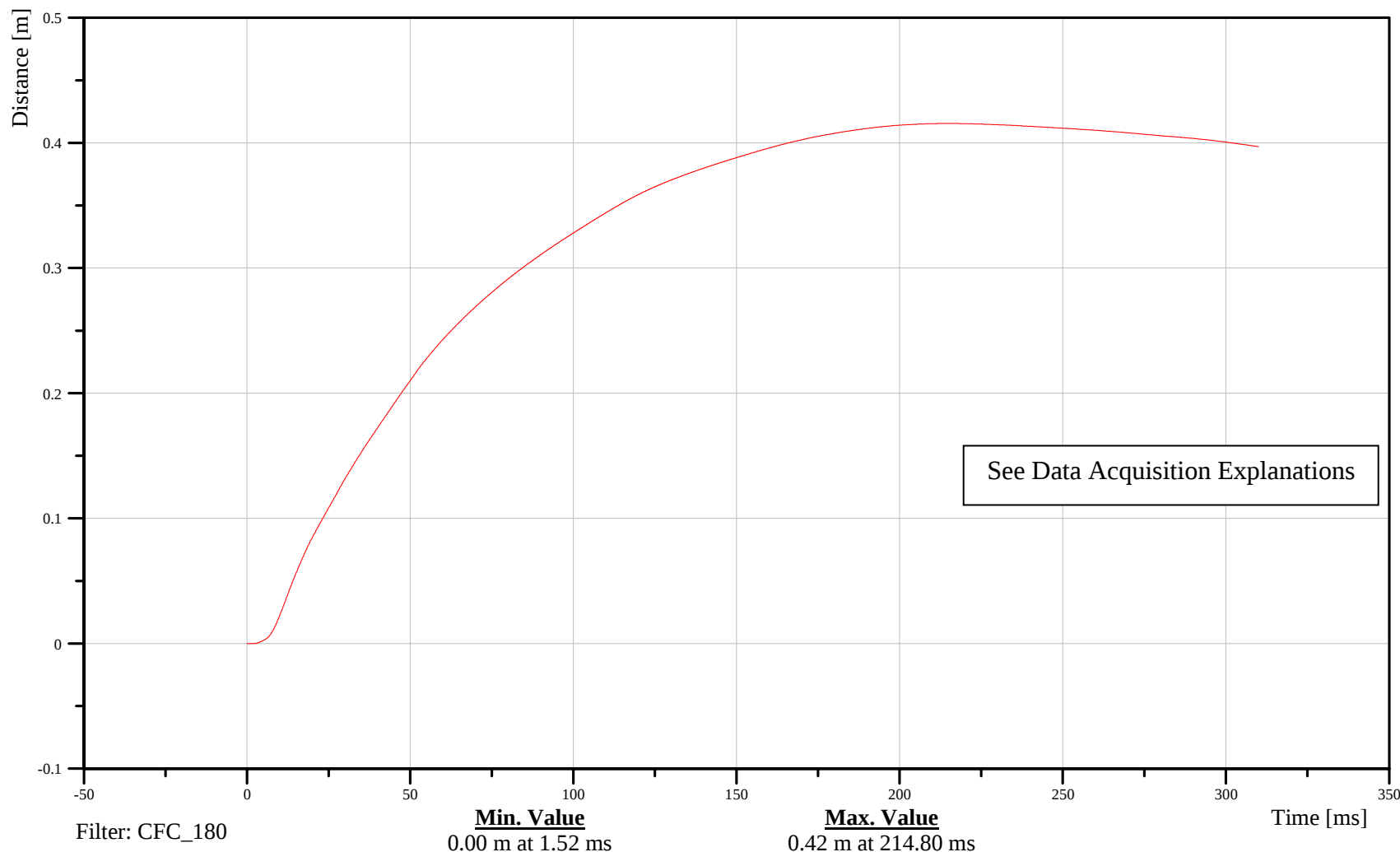
Customer: NHTSA

Test Number: C70202

14SILBFR0000DCYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-105

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT SIDE SILL AT REAR SEAT Y-AXIS ACCELERATION

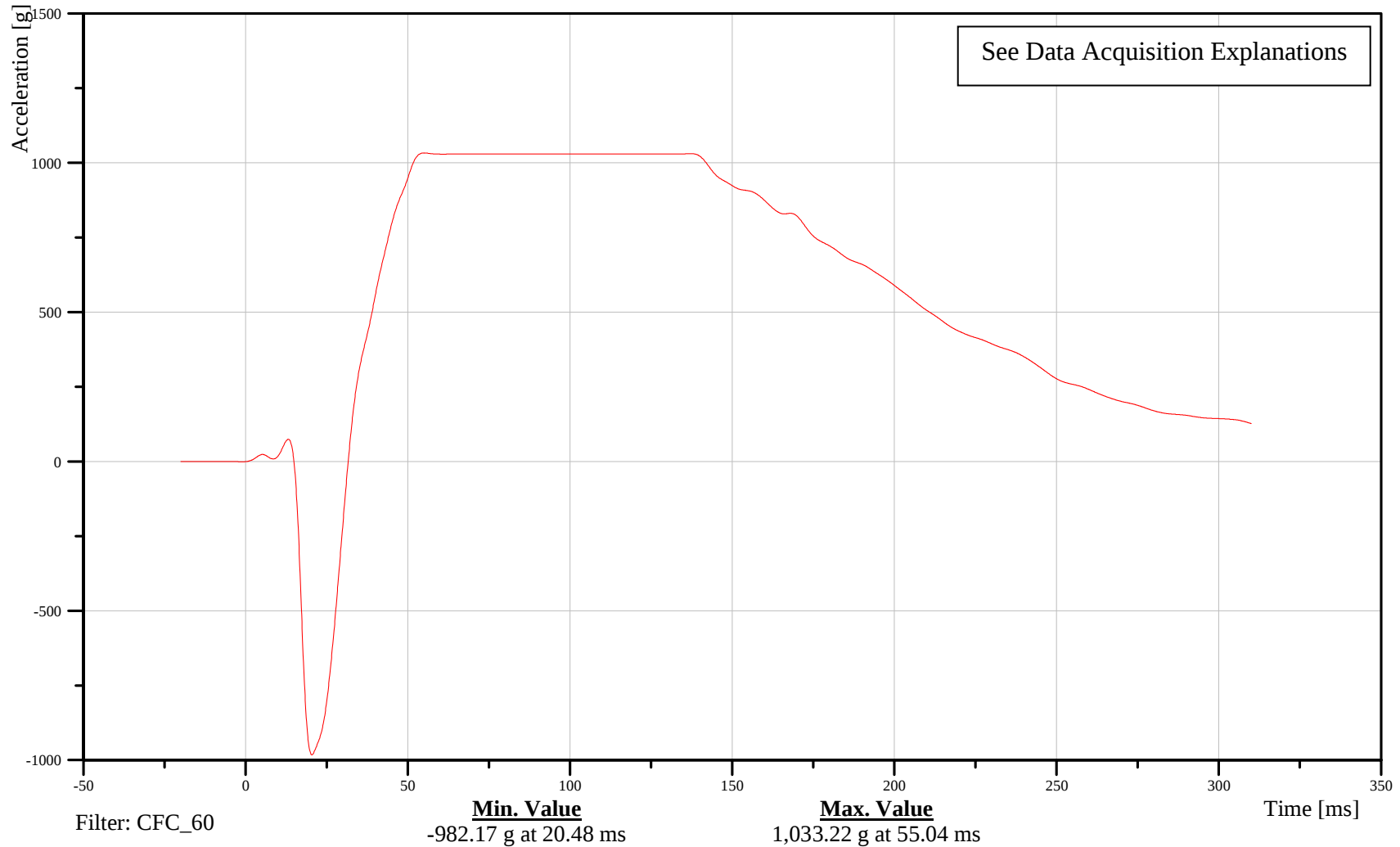
Customer: NHTSA

Test Number: C70202

14SILBRE0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-106

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

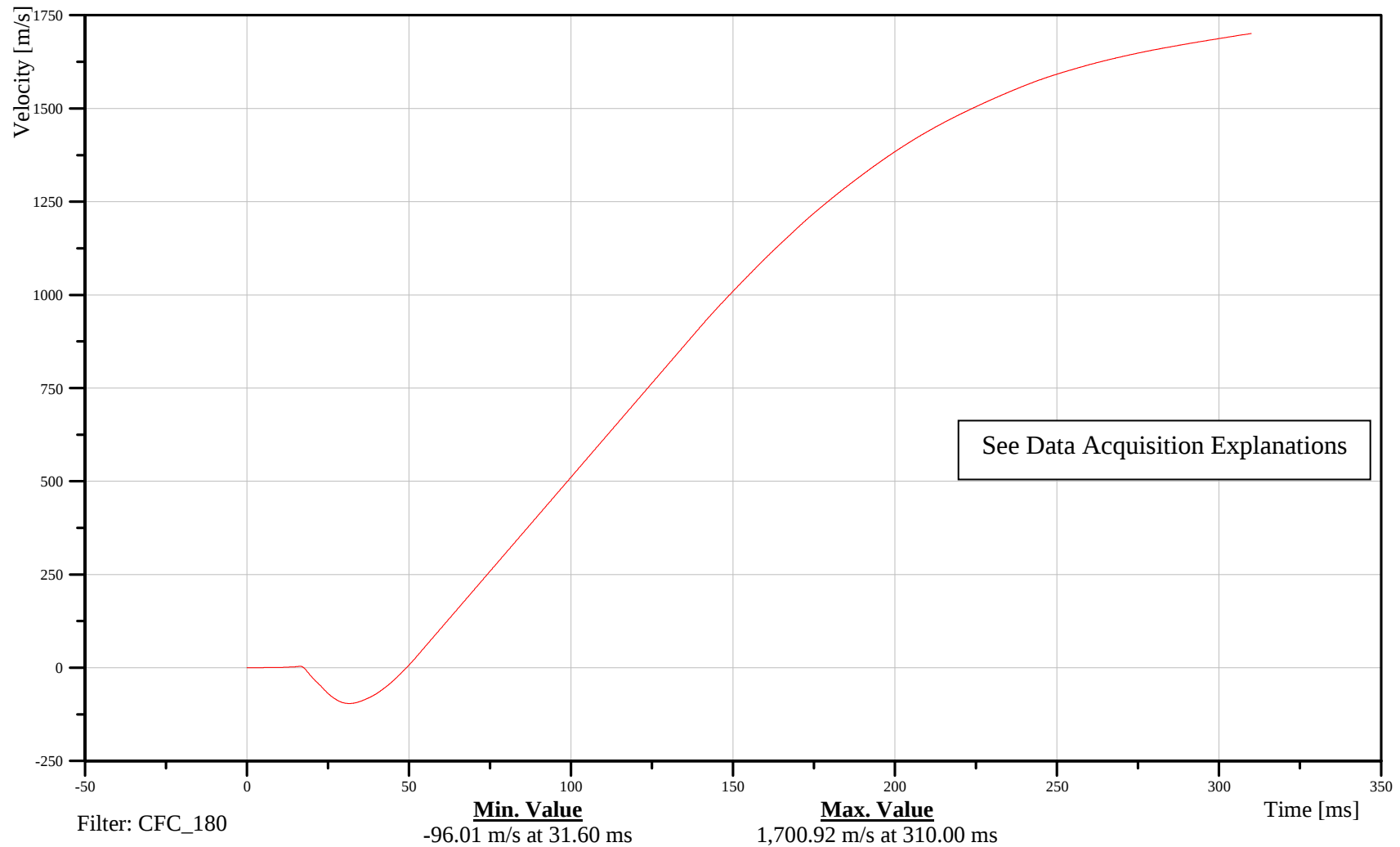
Date: 01/03/2007
Time: 15:44

LEFT SIDE SILL AT REAR SEAT Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

14SILBRE0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-107

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT SIDE SILL AT REAR SEAT Y-AXIS DISPLACEMENT

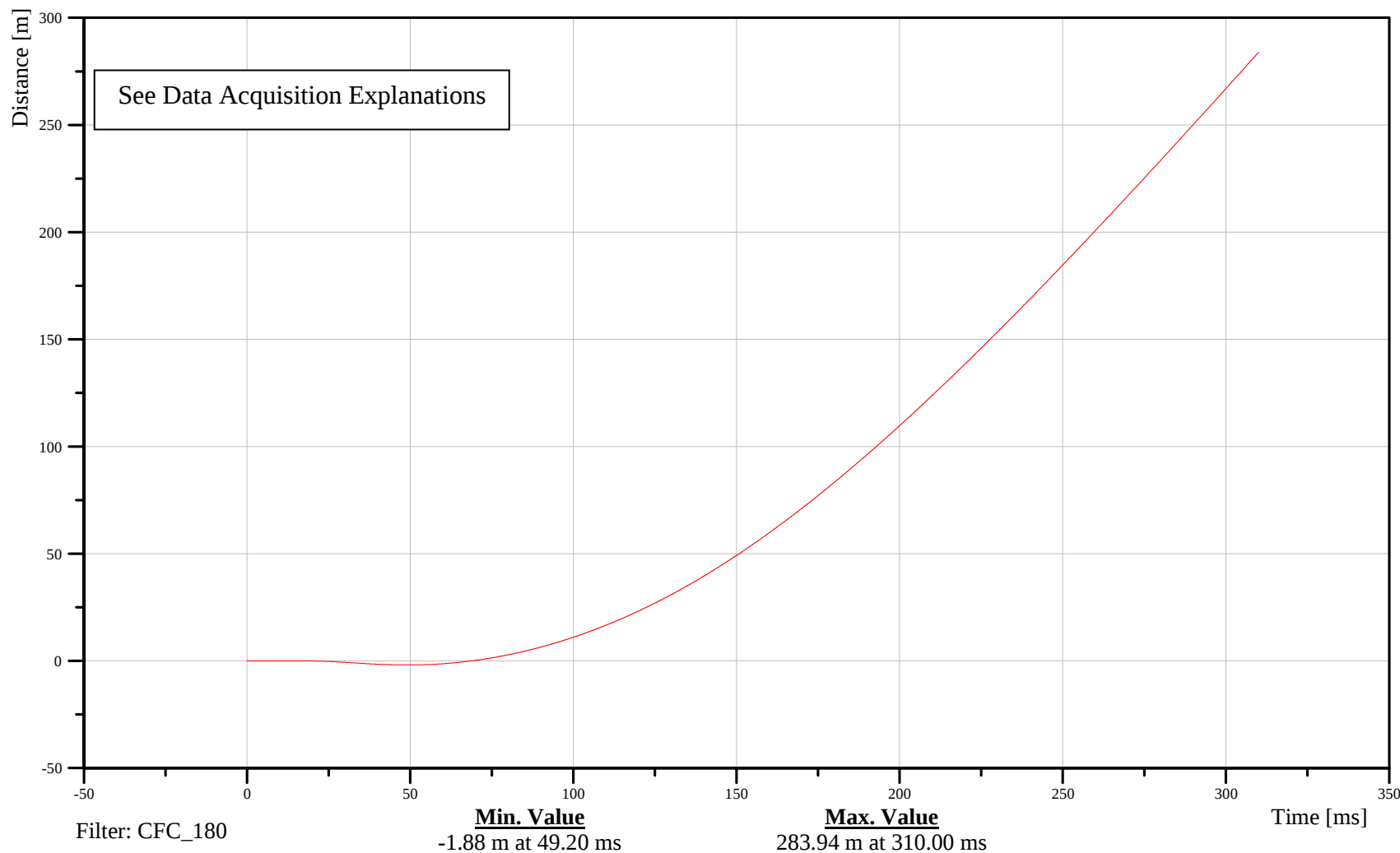
Customer: NHTSA

Test Number: C70202

14SILBRE0000DCYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-108

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

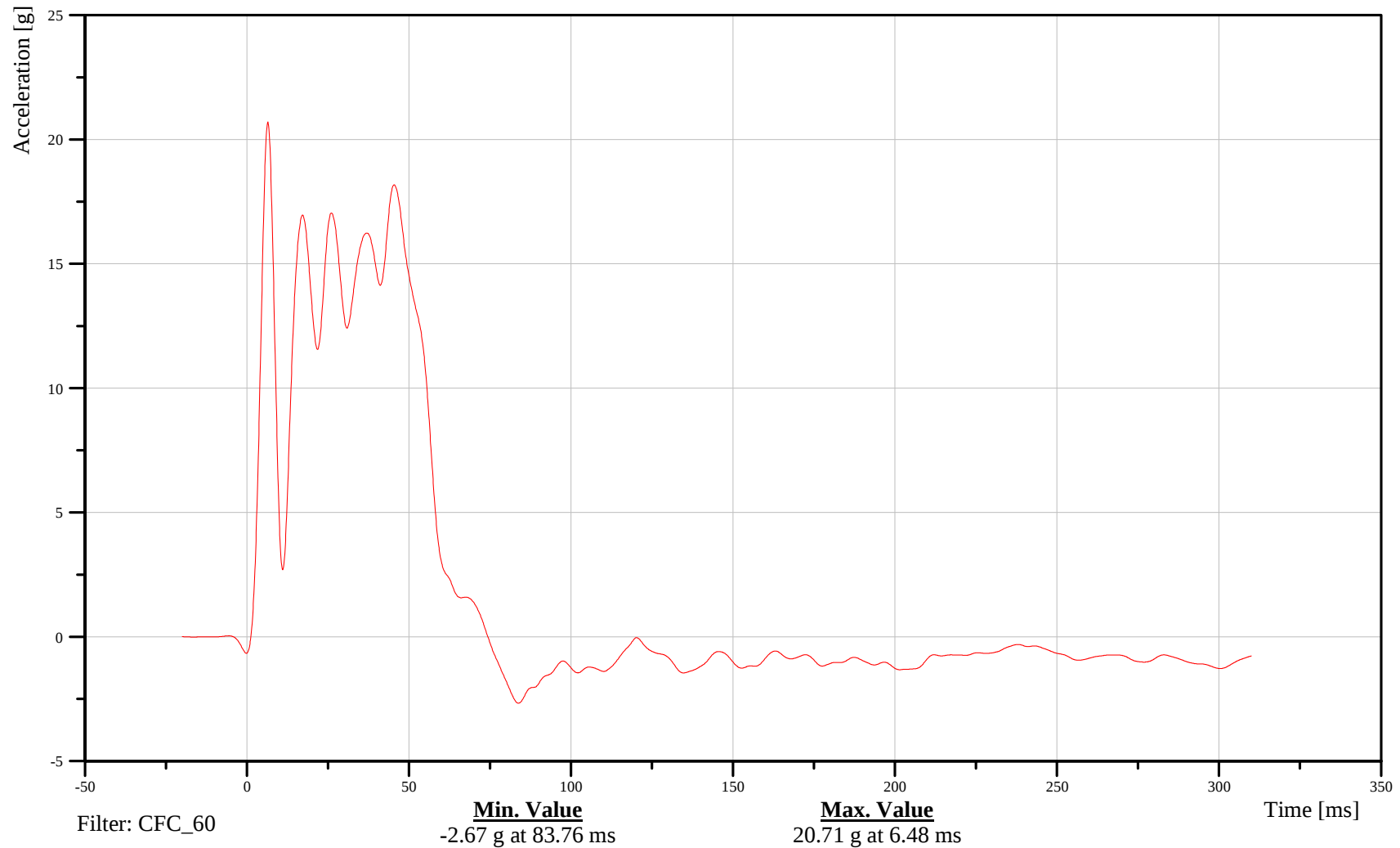
Date: 01/03/2007
Time: 15:44

RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

16VEHCRE0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-109

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS VELOCITY

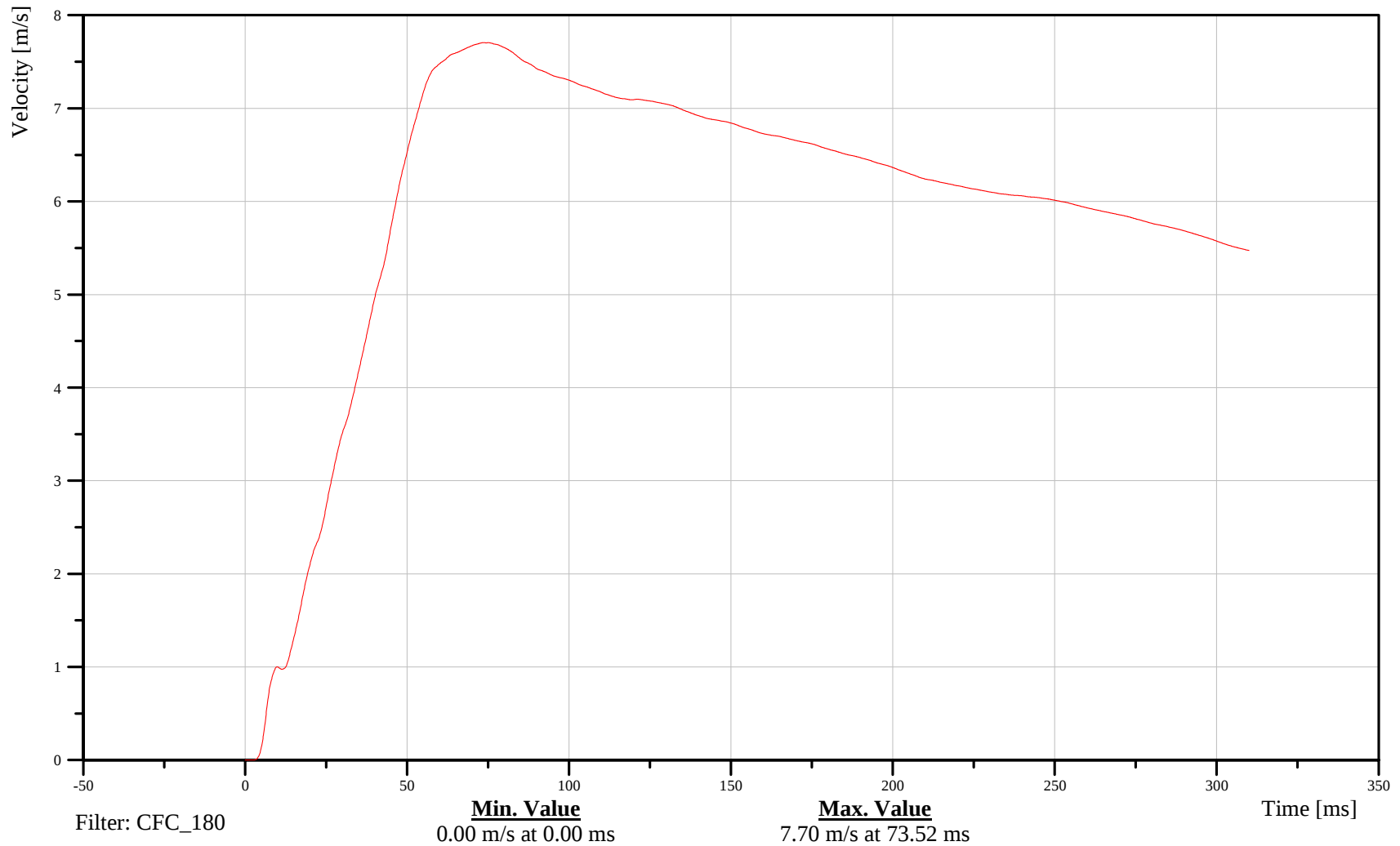
Customer: NHTSA

Test Number: C70202

16VEHCRE0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-110

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS DISPLACEMENT

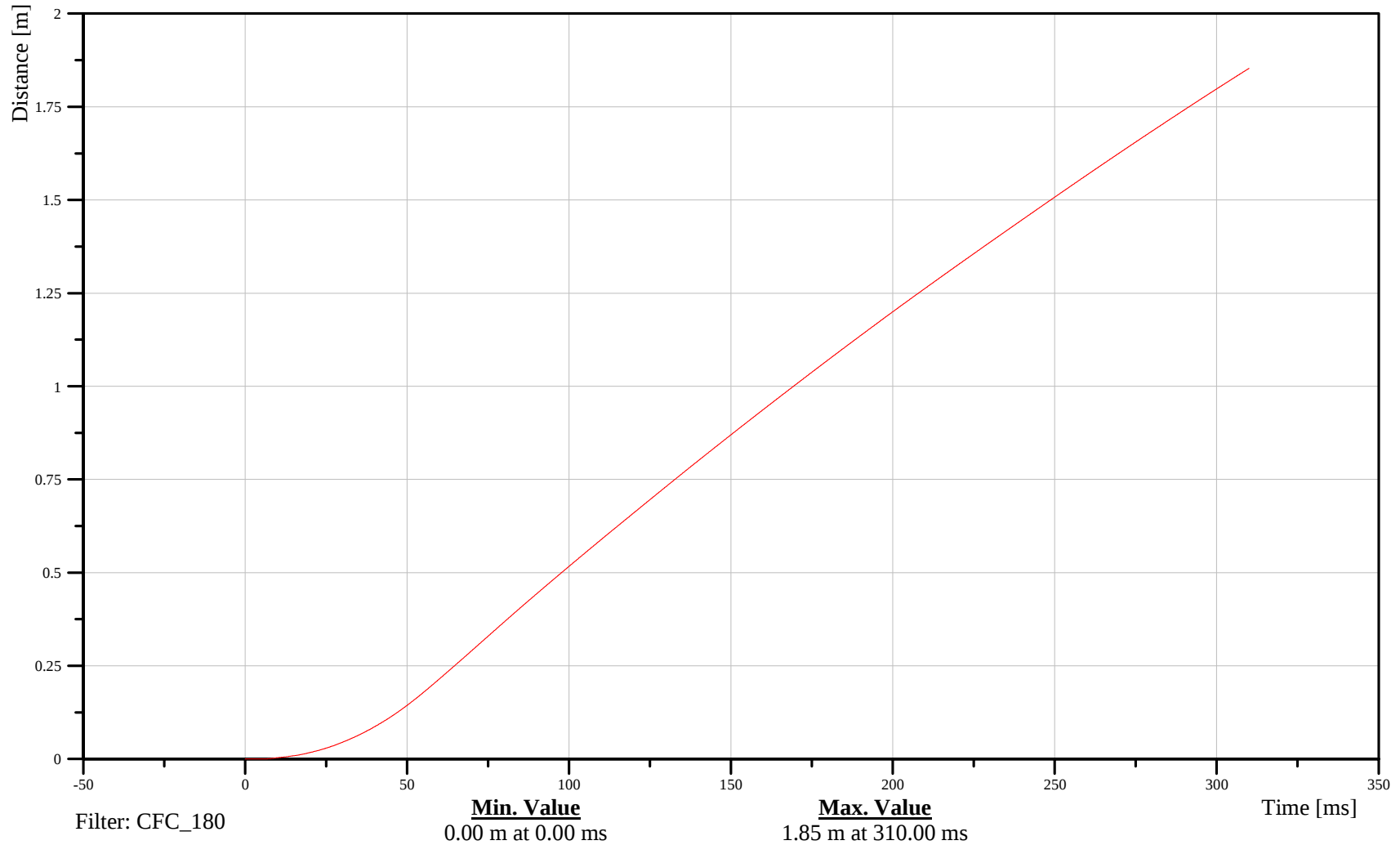
Customer: NHTSA

Test Number: C70202

16VEHCRE0000DCYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-111

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

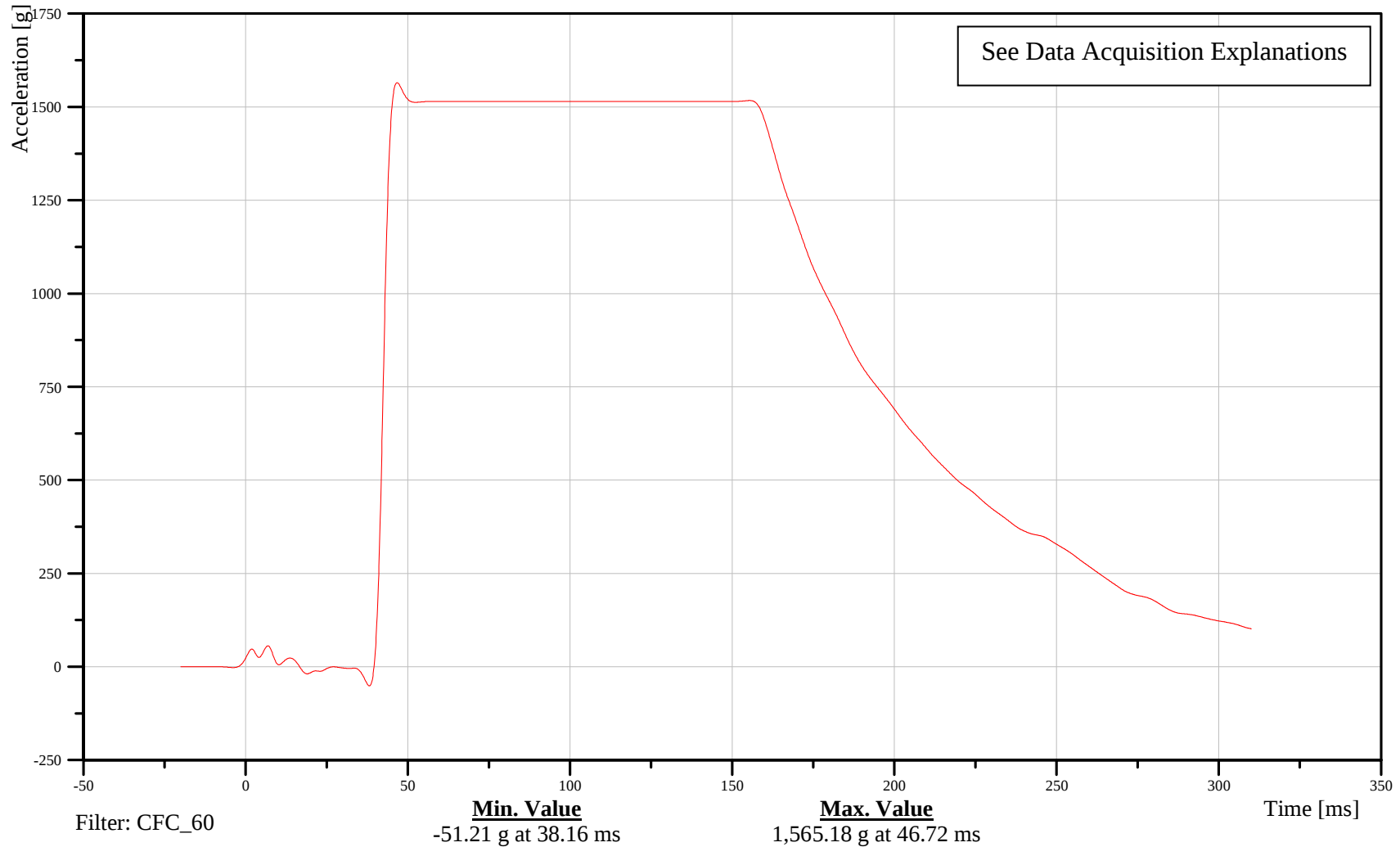
Date: 01/03/2007
Time: 15:44

LEFT LOWER A-POST Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11APILLO00000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-112

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

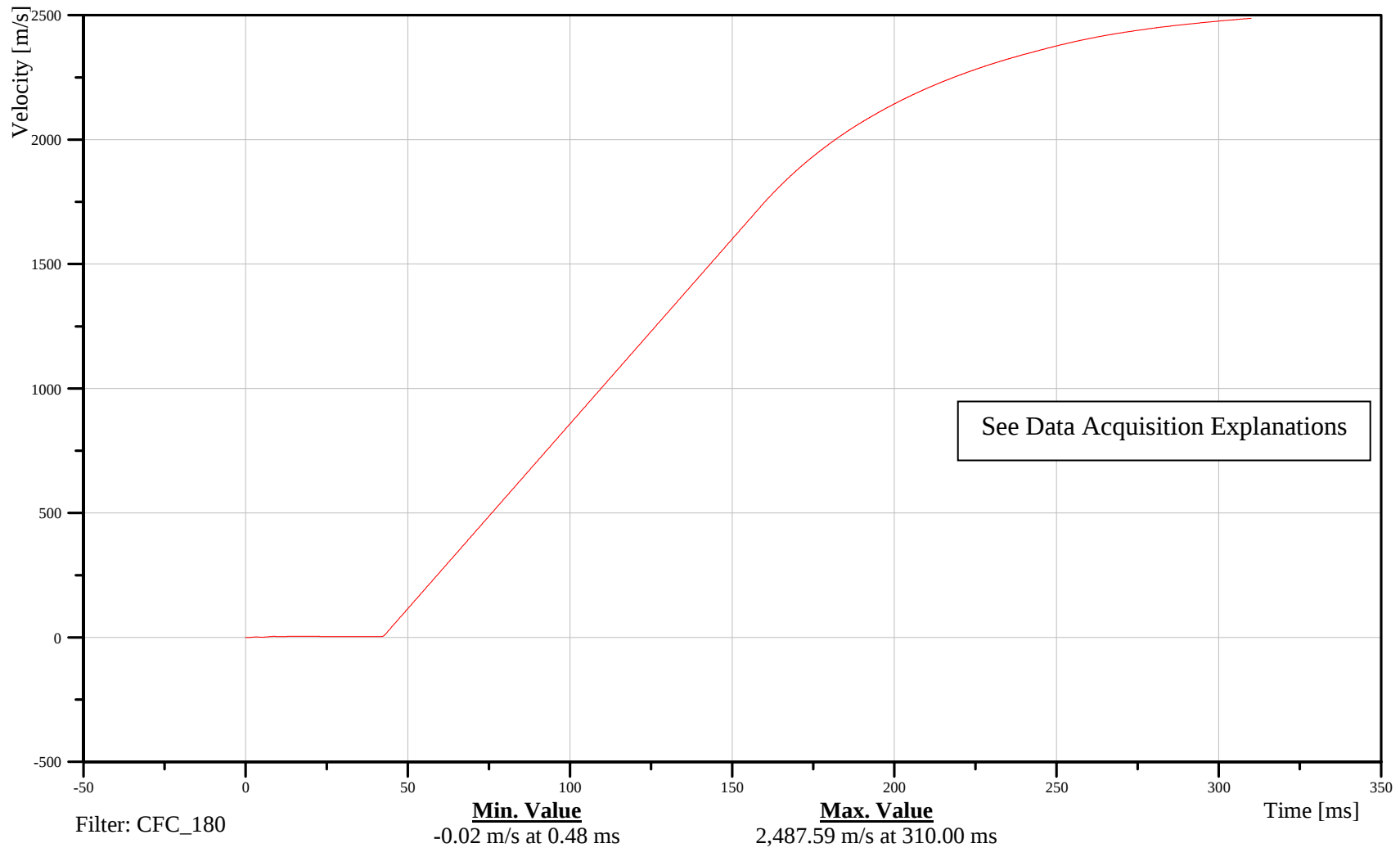
Date: 01/03/2007
Time: 15:44

LEFT LOWER A-POST Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11APILLO0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-113

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

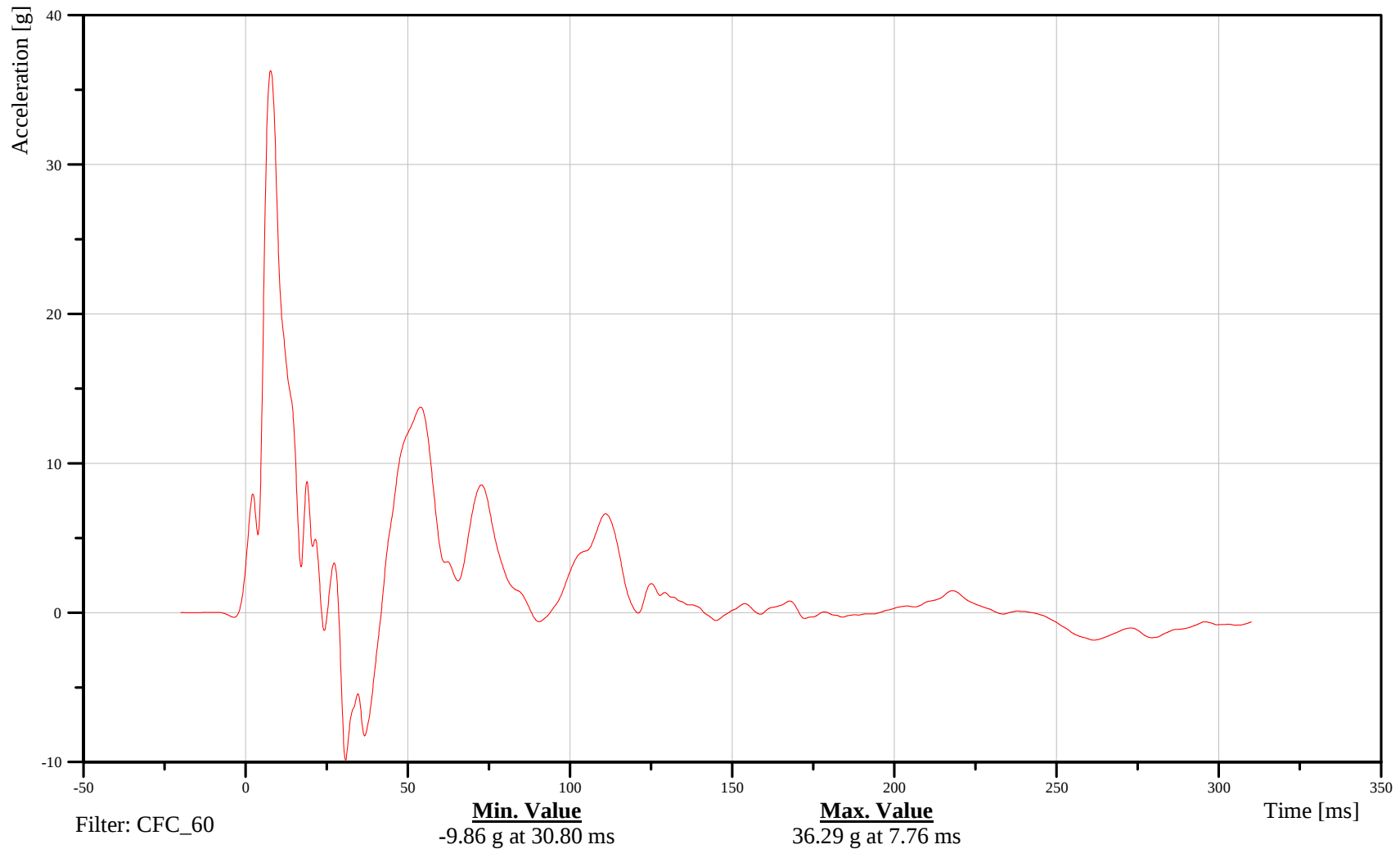
Date: 01/03/2007
Time: 15:44

LEFT MIDDLE A-POST Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11APILMI0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-114

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

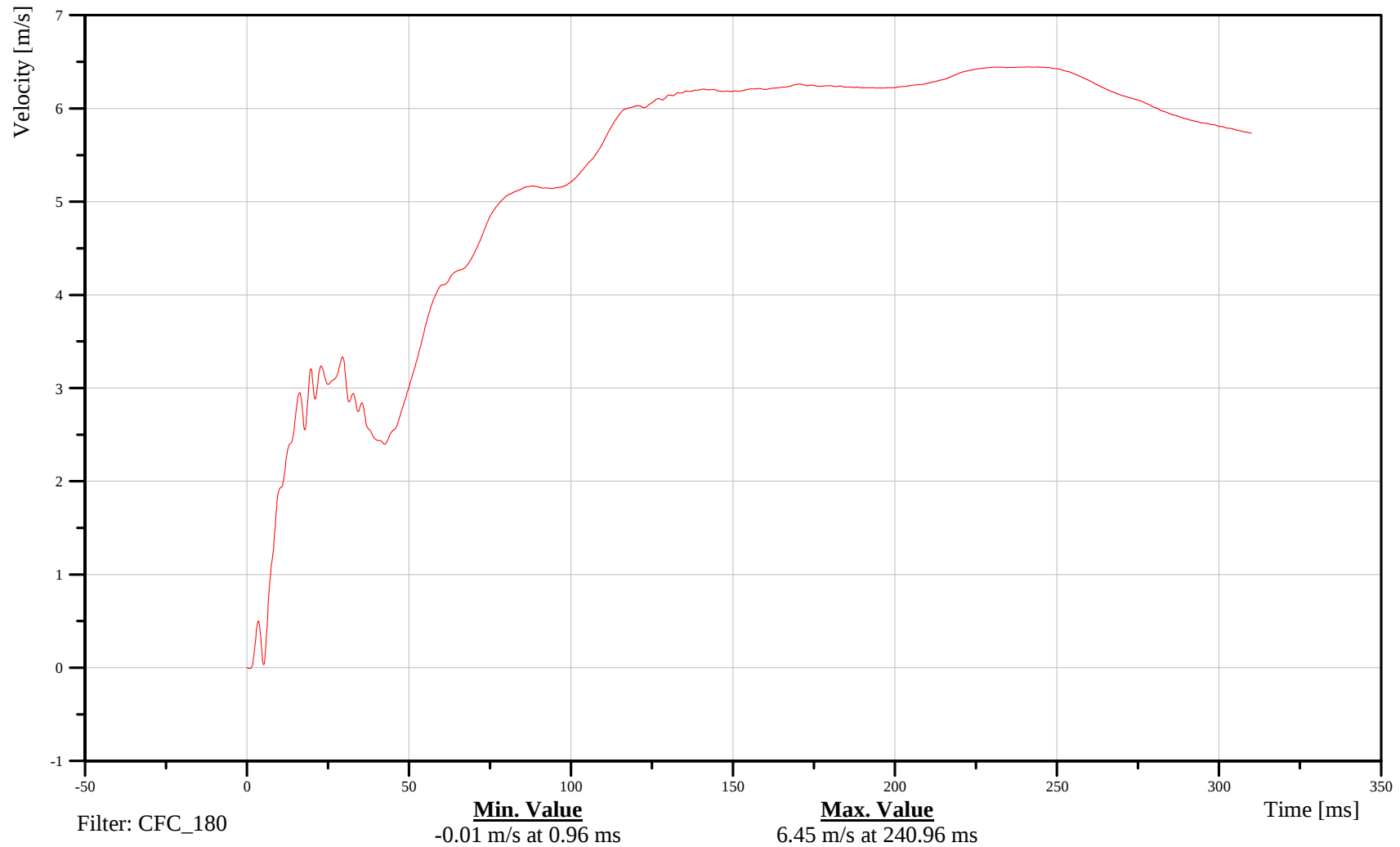
Date: 01/03/2007
Time: 15:44

LEFT MIDDLE A-POST Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11APILMI0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-115

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

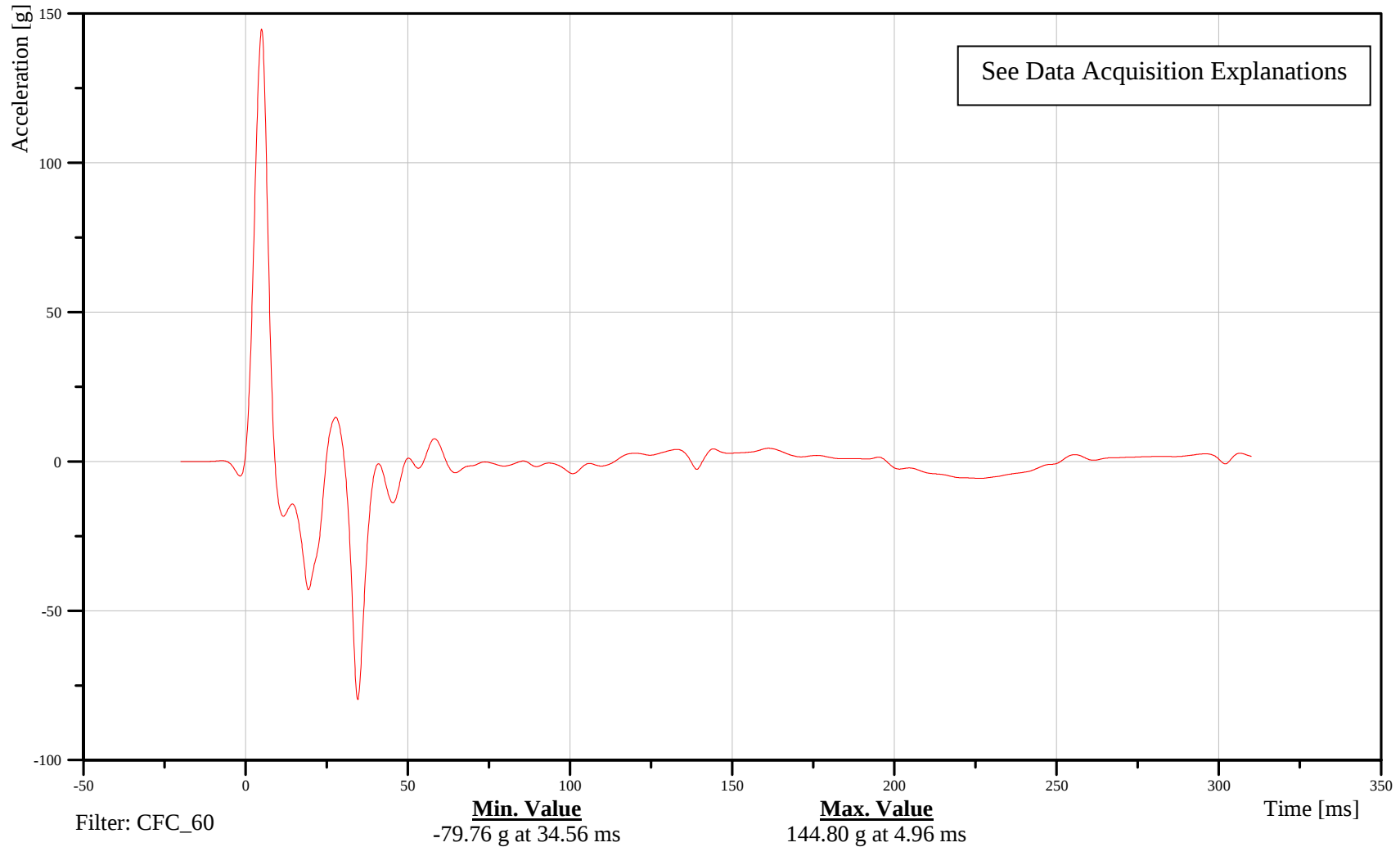
Date: 01/03/2007
Time: 15:44

LEFT LOWER B-POST Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14BPILLO0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-116

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

LEFT LOWER B-POST Y-AXIS VELOCITY

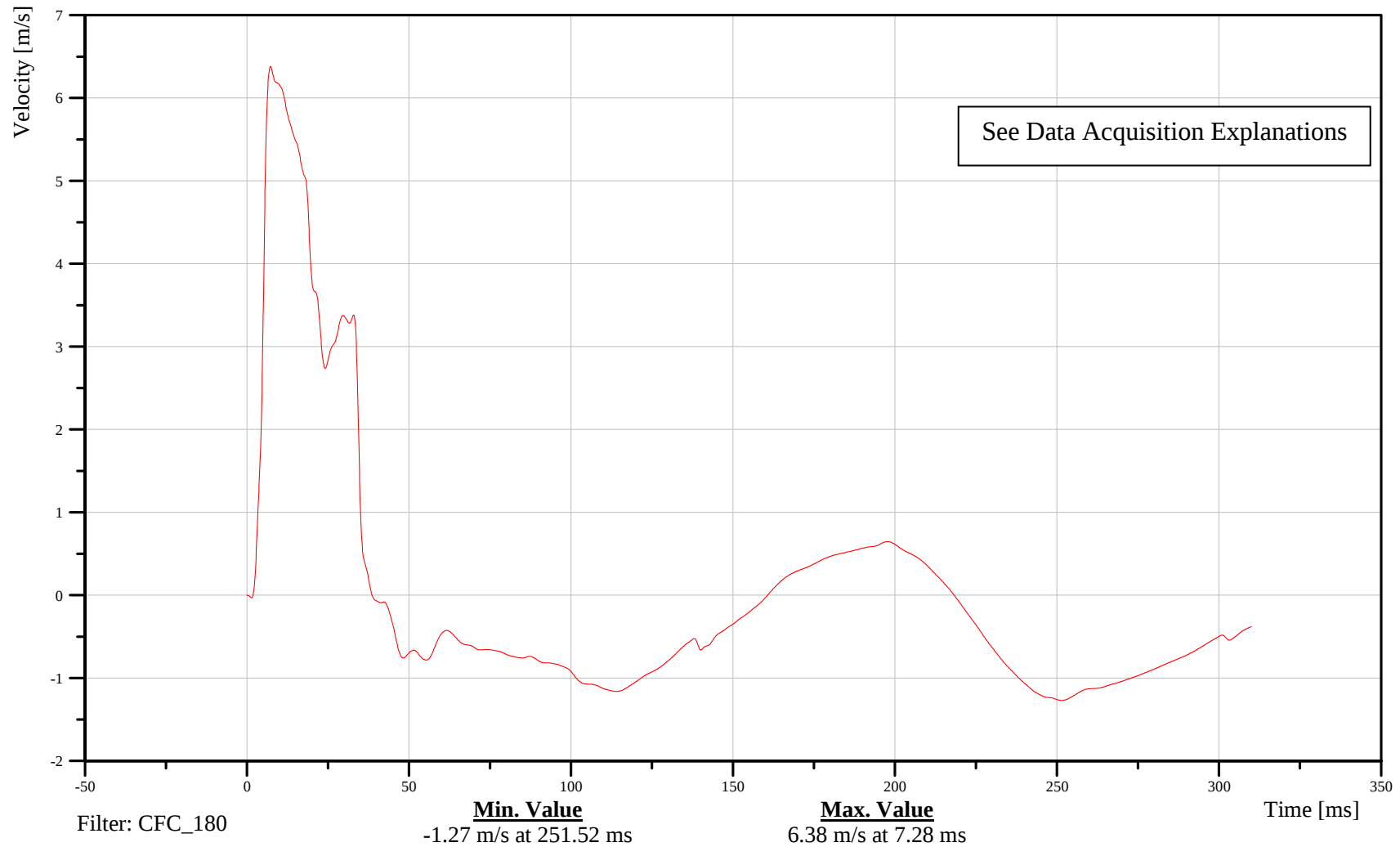
Customer: NHTSA

Test Number: C70202

14BPILLO0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-117

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

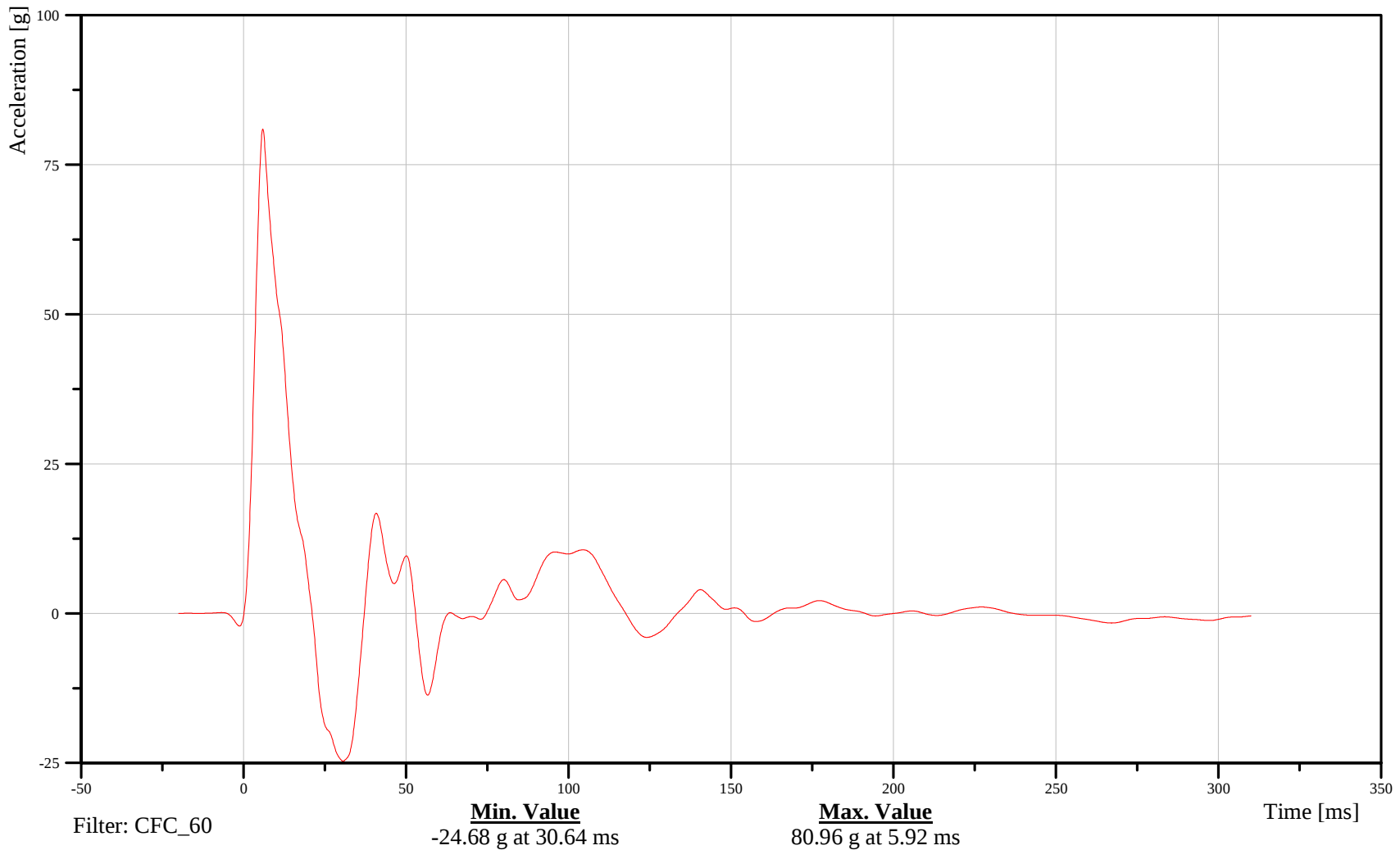
Date: 01/03/2007
Time: 15:44

LEFT MIDDLE B-POST Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14BPILMI0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-118

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

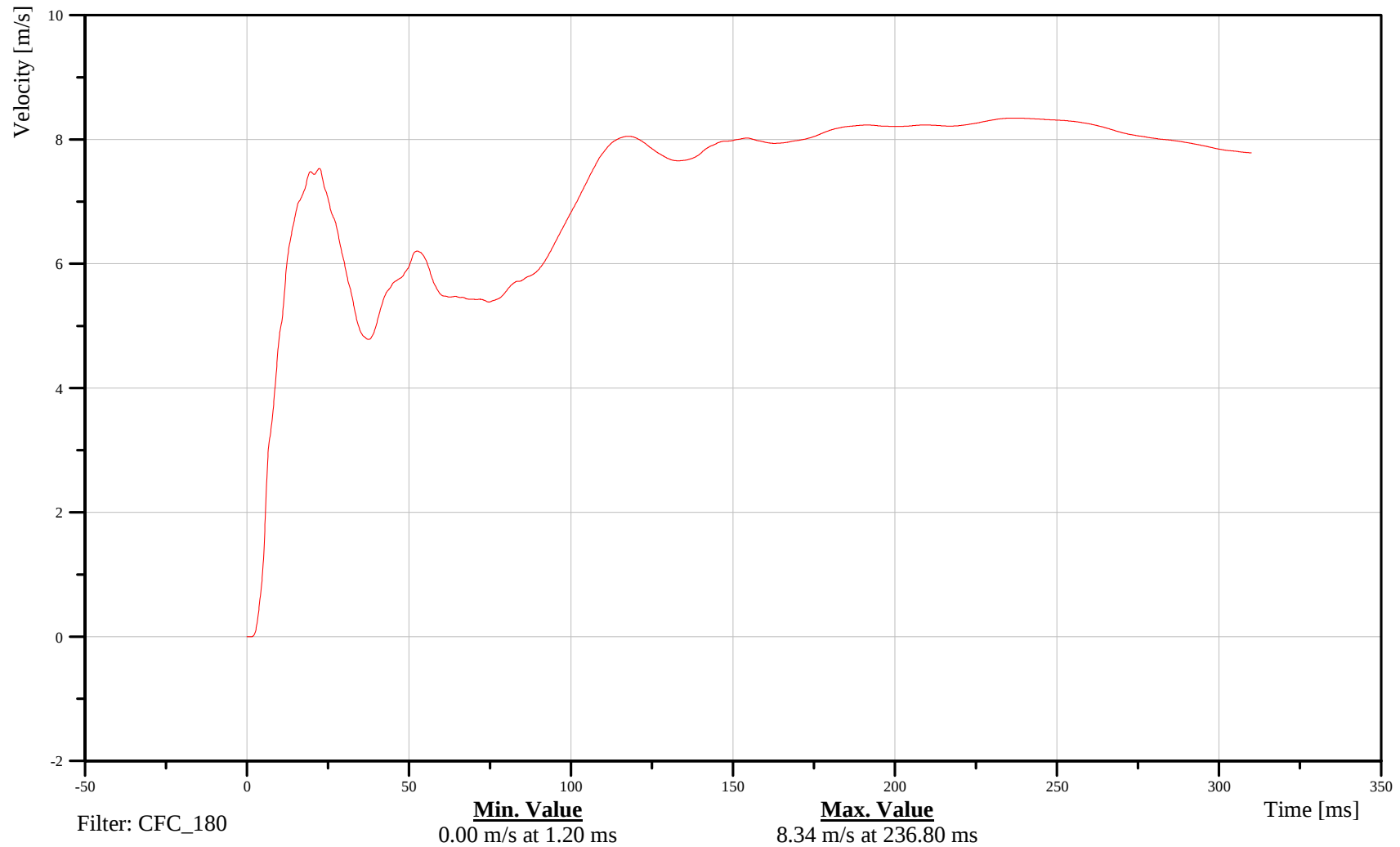
Date: 01/03/2007
Time: 15:44

LEFT MIDDLE B-POST Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

14BPILMI0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-119

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

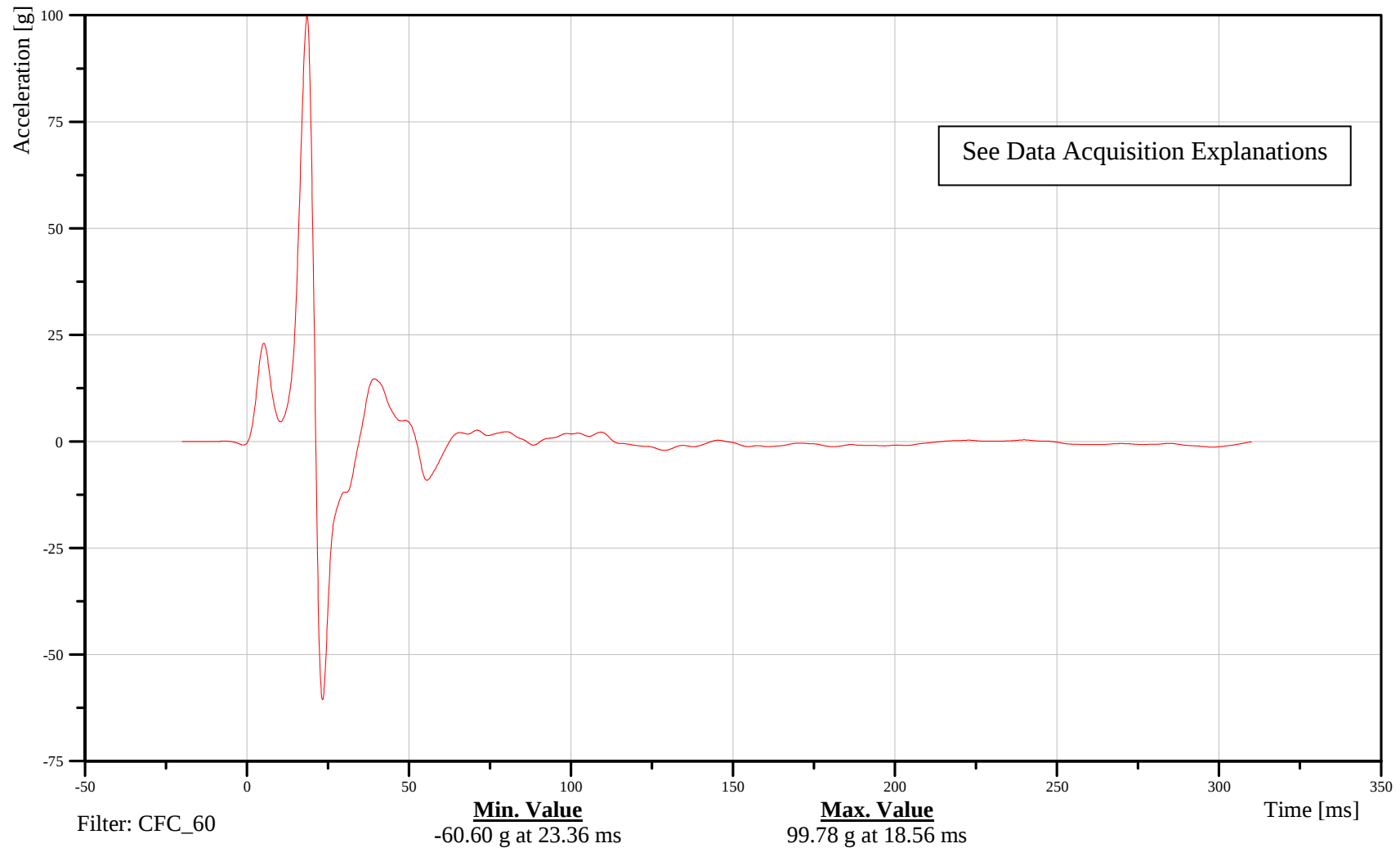
Date: 01/03/2007
Time: 15:44

LEFT FRONT SEAT TRACK Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11SETRFR0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-120

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

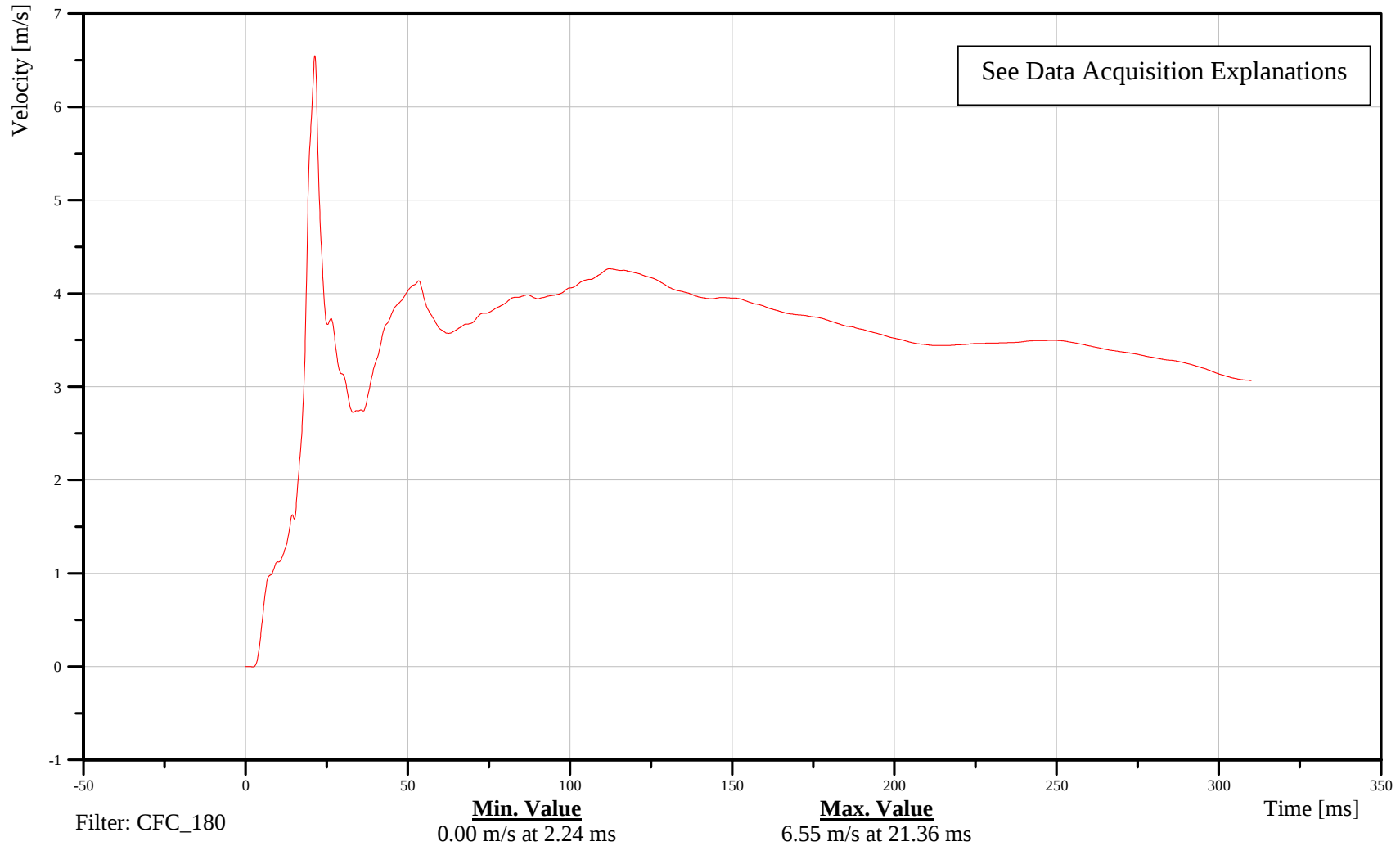
Date: 01/03/2007
Time: 15:44

LEFT FRONT SEAT TRACK Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

11SETRFR0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-121

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

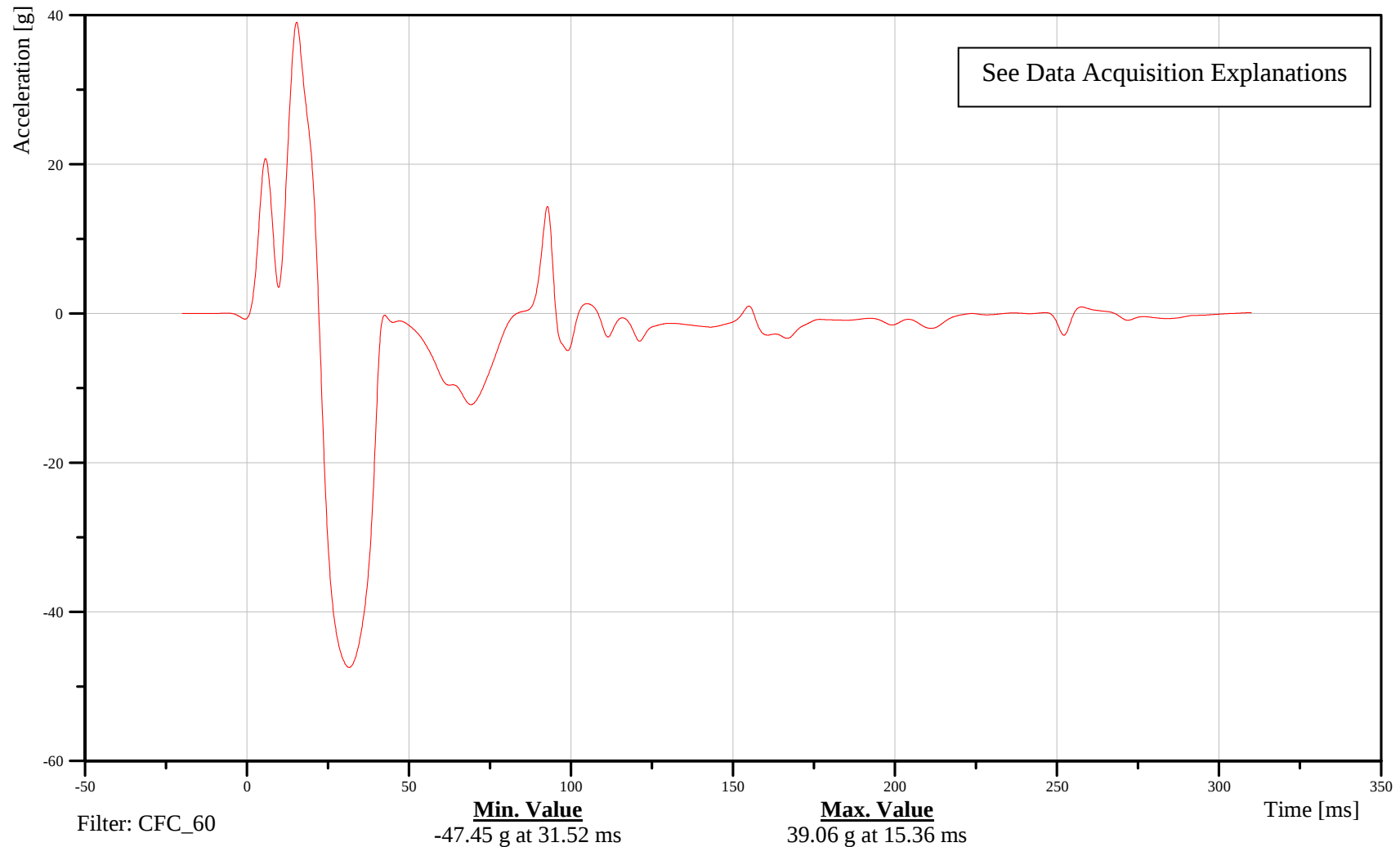
Date: 01/03/2007
Time: 15:44

LEFT REAR SEAT TRACK Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14SETRLERE00ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-122

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

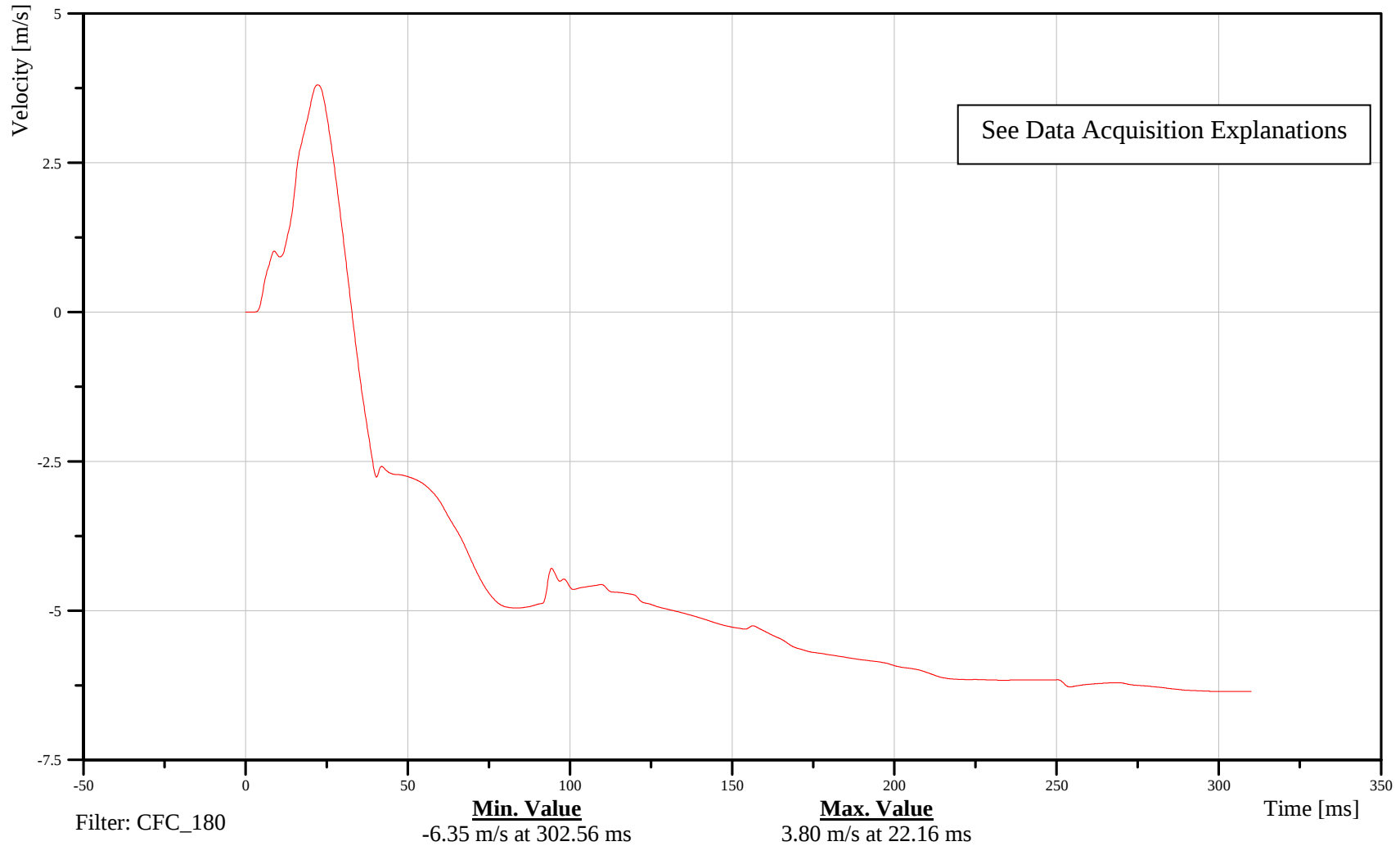
Date: 01/03/2007
Time: 15:44

LEFT REAR SEAT TRACK Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

14SETRLERE00VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-123

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

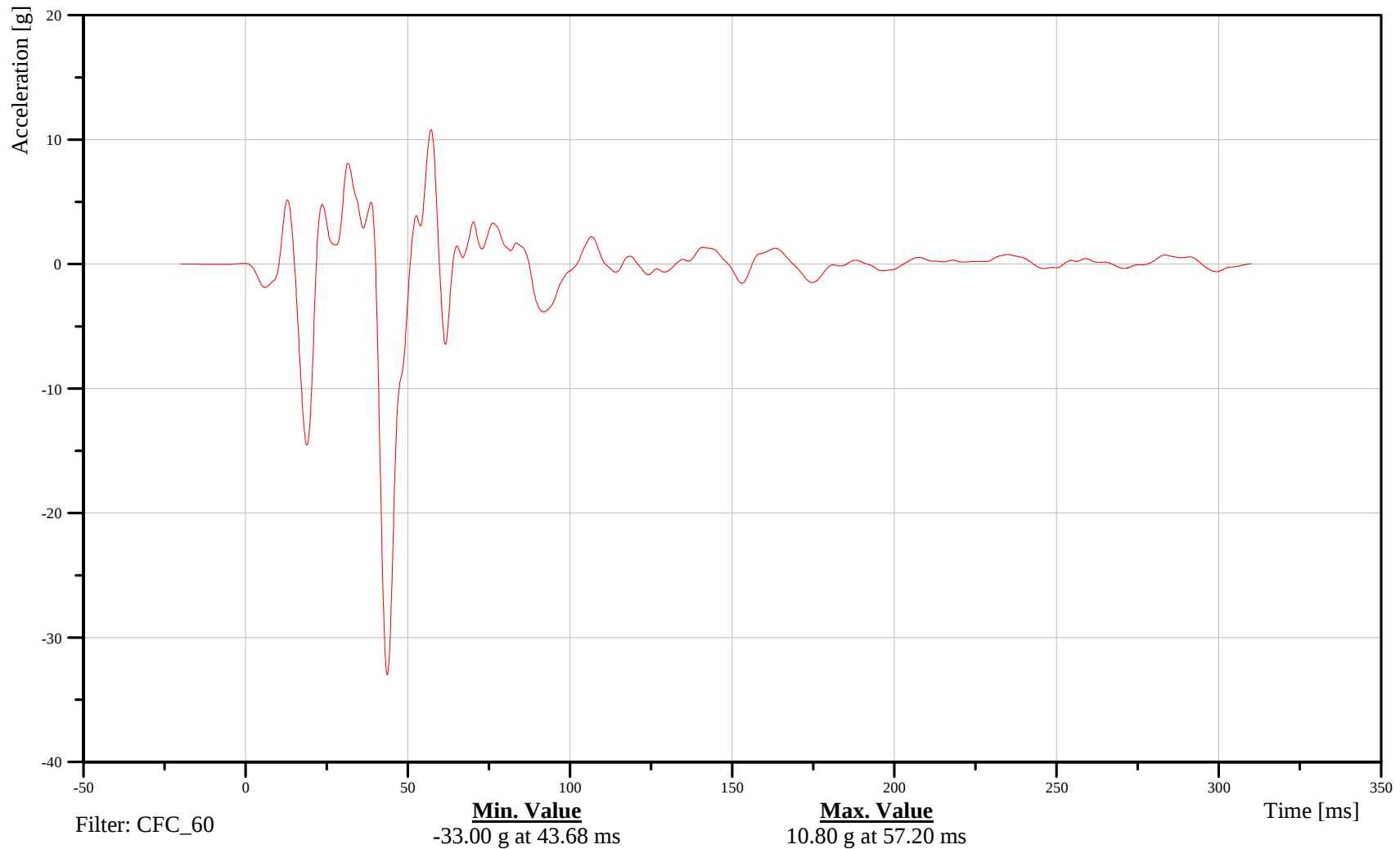
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY X-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

10VEHCCG0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-124

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

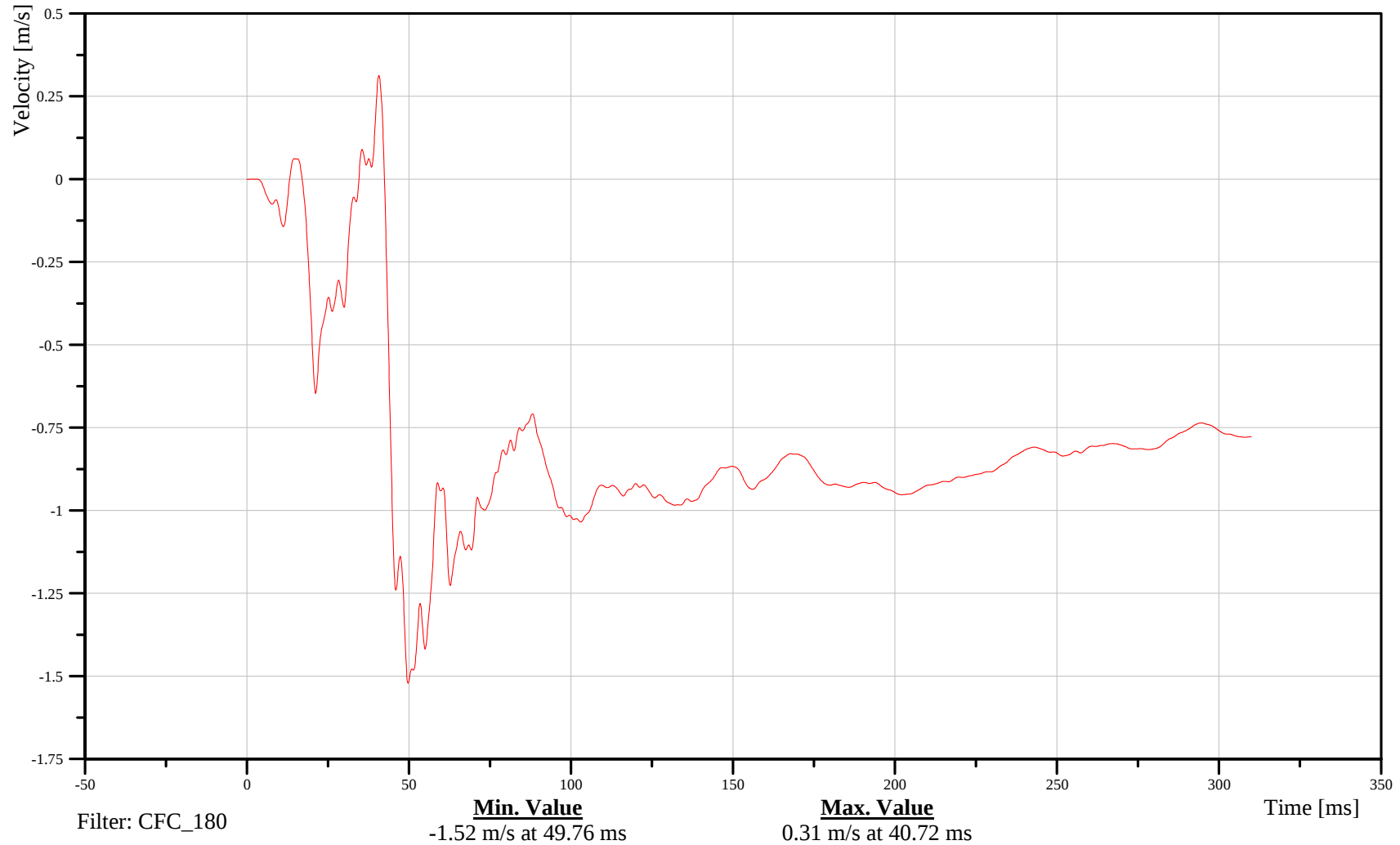
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY X-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

10VEHCCG0000VEXC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-125

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

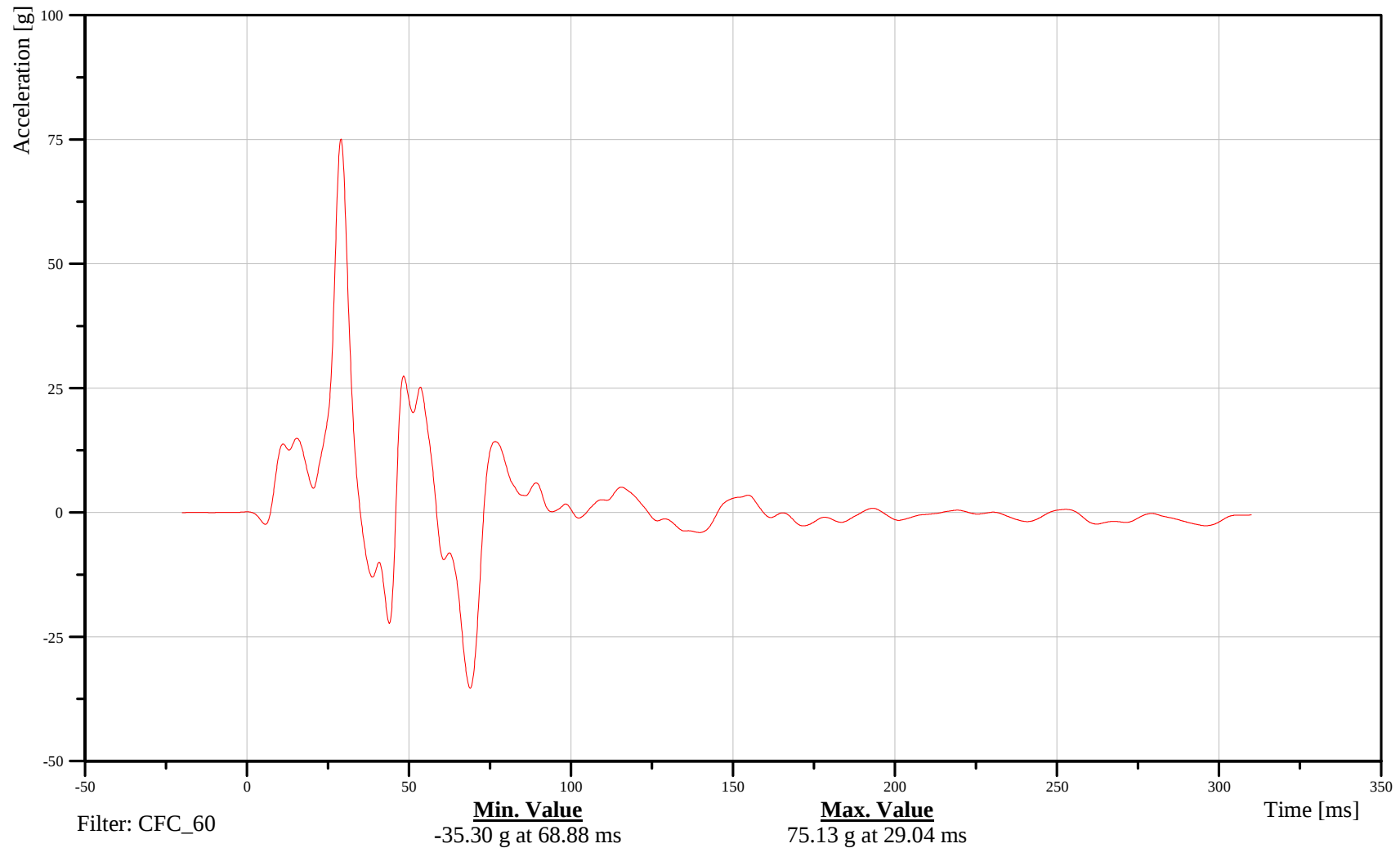
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

10VEHCCG0000ACVD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-126

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

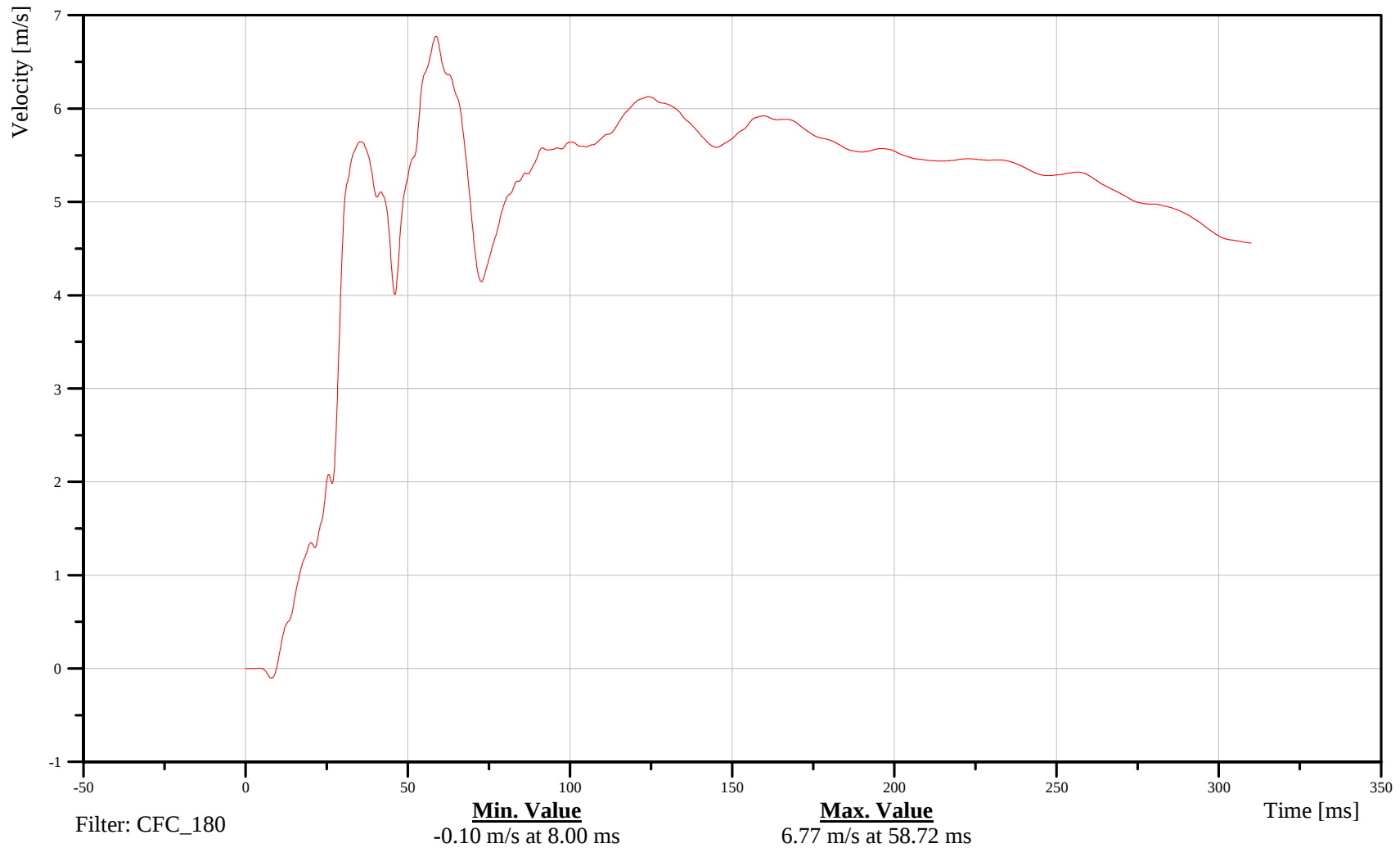
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

10VEHCCG0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-127

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

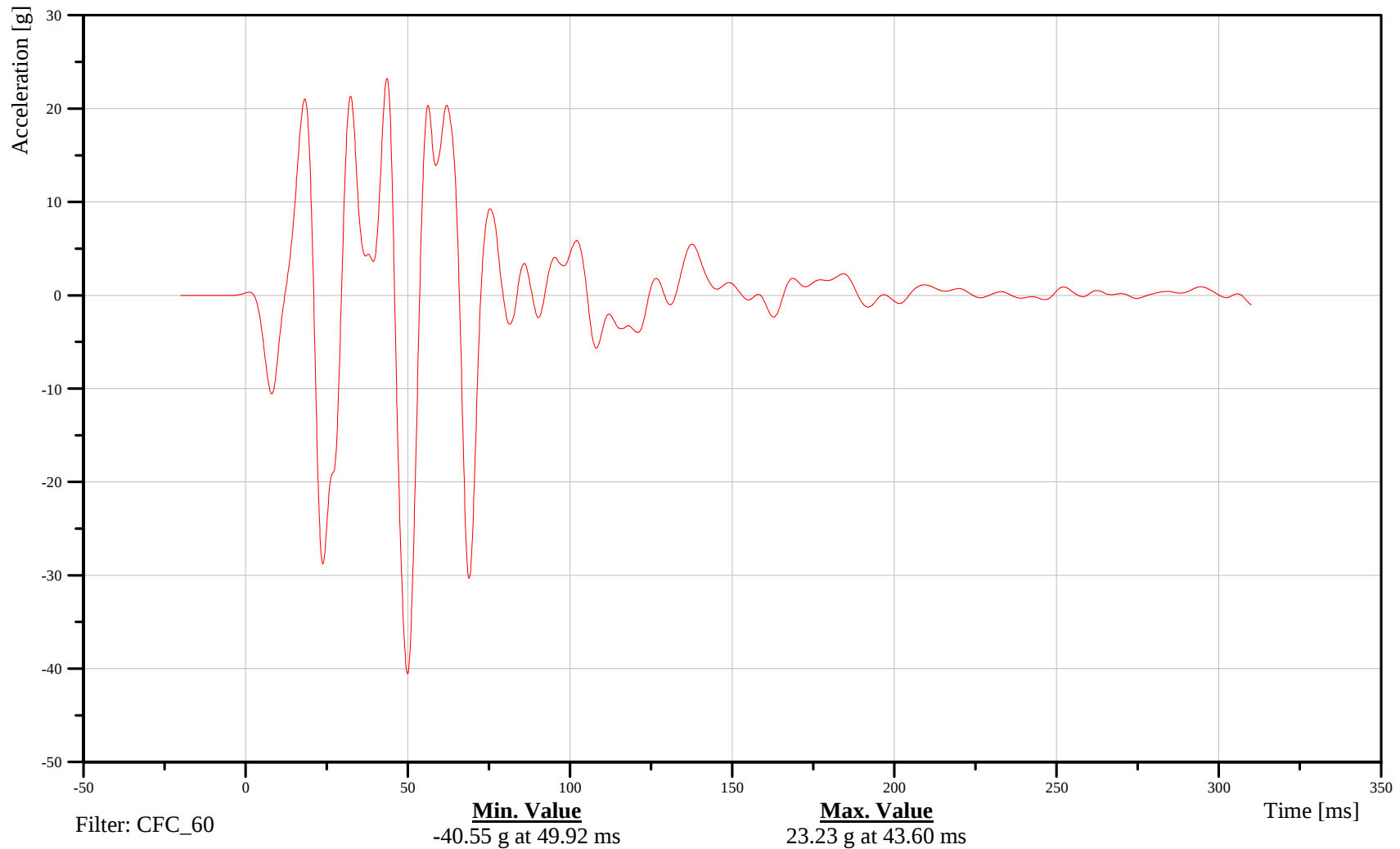
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY Z-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

10VEHCCG0000ACZD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-128

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

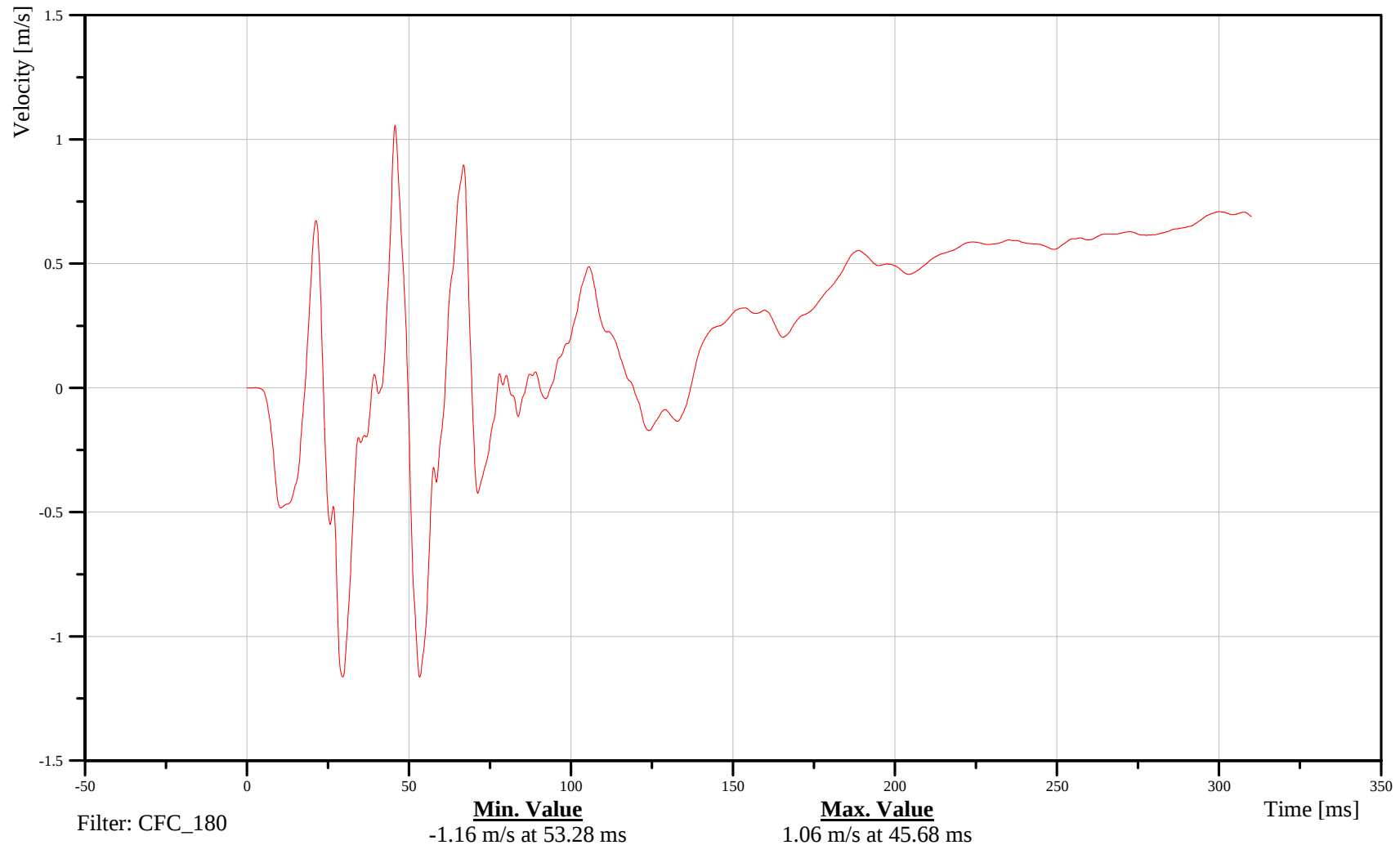
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY Z-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

10VEHCCG0000VEZC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-129

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

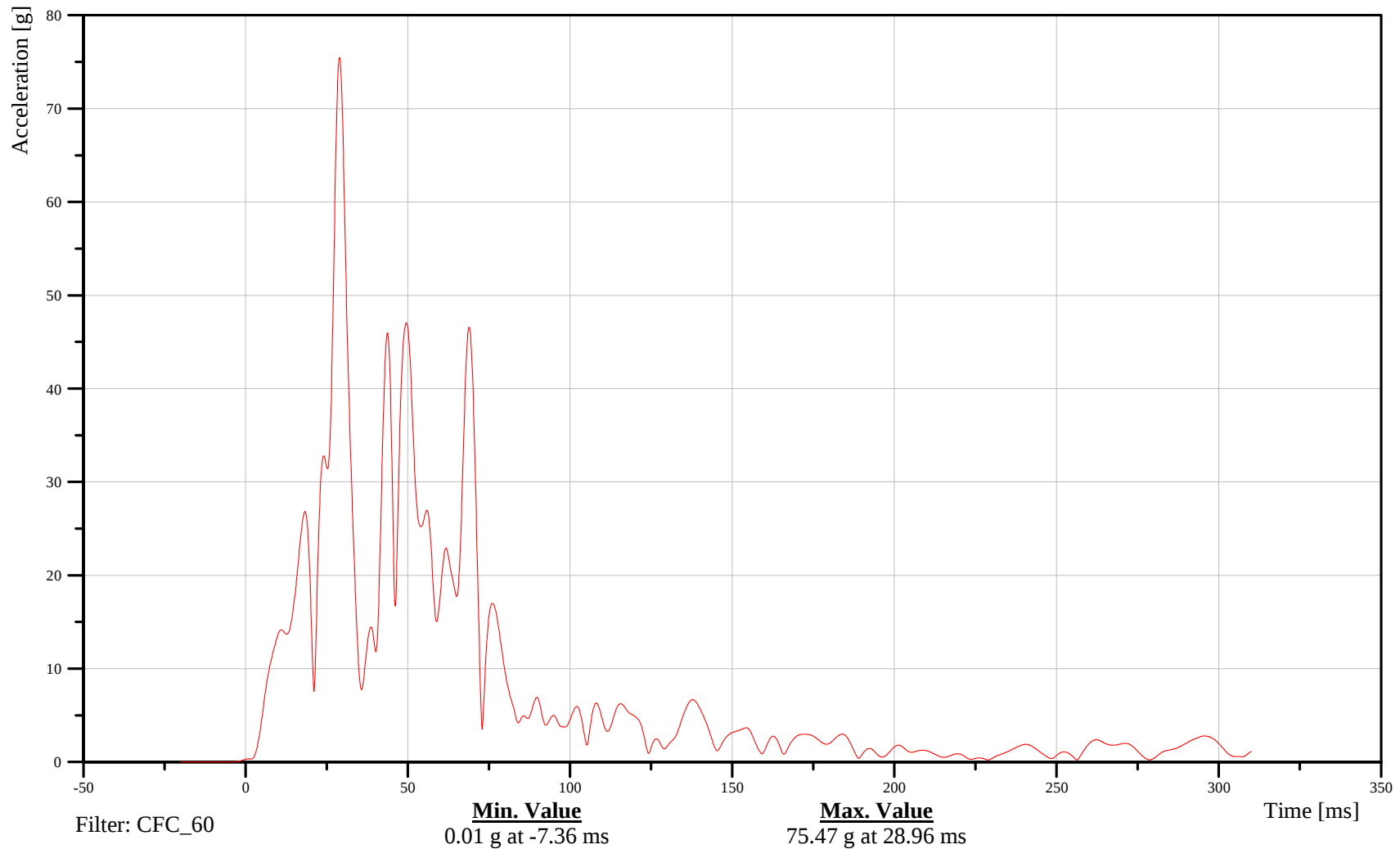
Date: 01/03/2007
Time: 15:44

VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION

Customer: NHTSA
Test Number: C70202

10VEHCCG0000ACRD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-130

070103

MDB Instrumentation Plots



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

MDB CENTER OF GRAVITY X-AXIS ACCELERATION

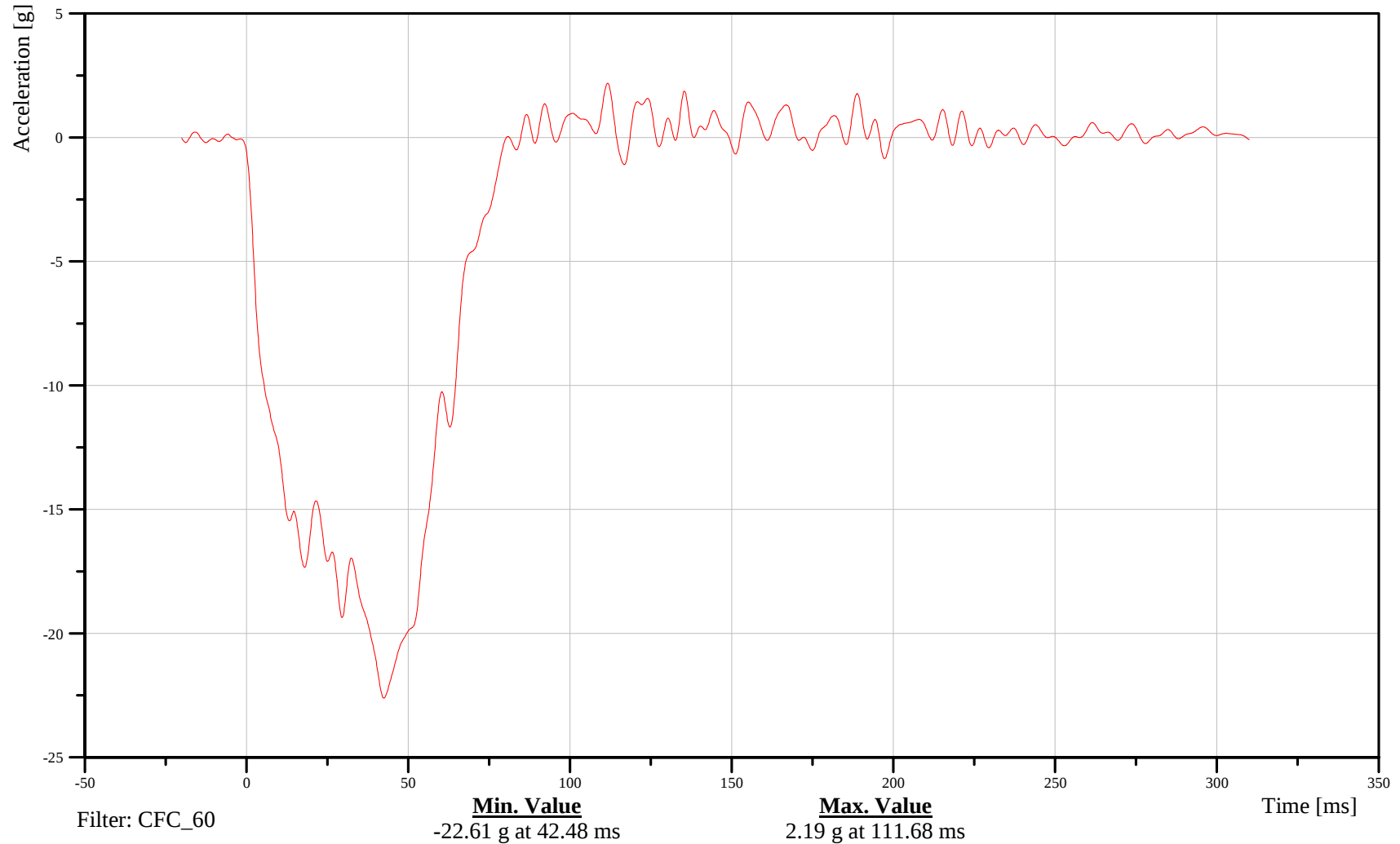
Customer: NHTSA

Test Number: C70202

M0VEHCCG0000ACXD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-132

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

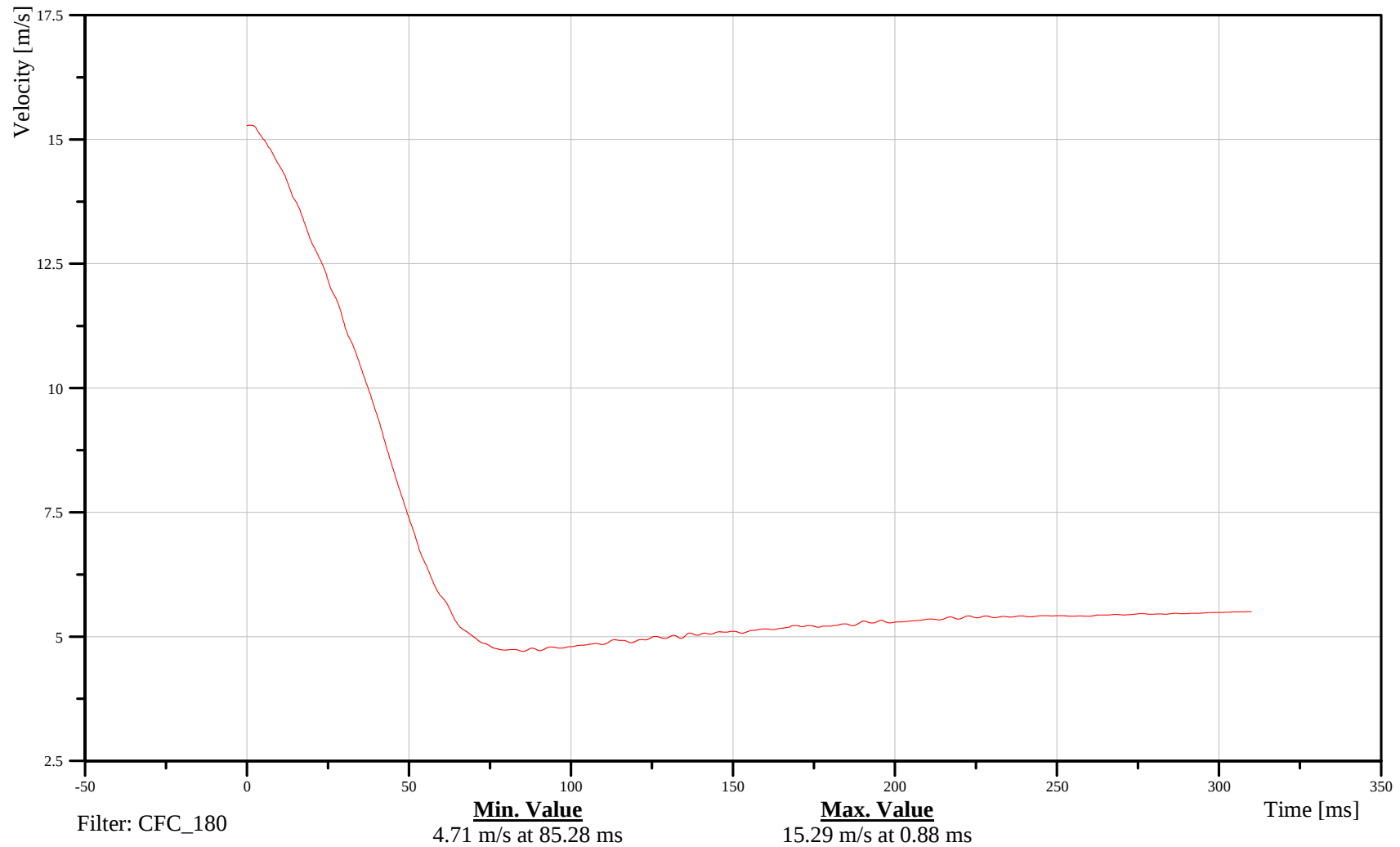
Date: 01/03/2007
Time: 15:44

MDB CENTER OF GRAVITY X-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

M0VEHCCG0000VEXC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-133

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

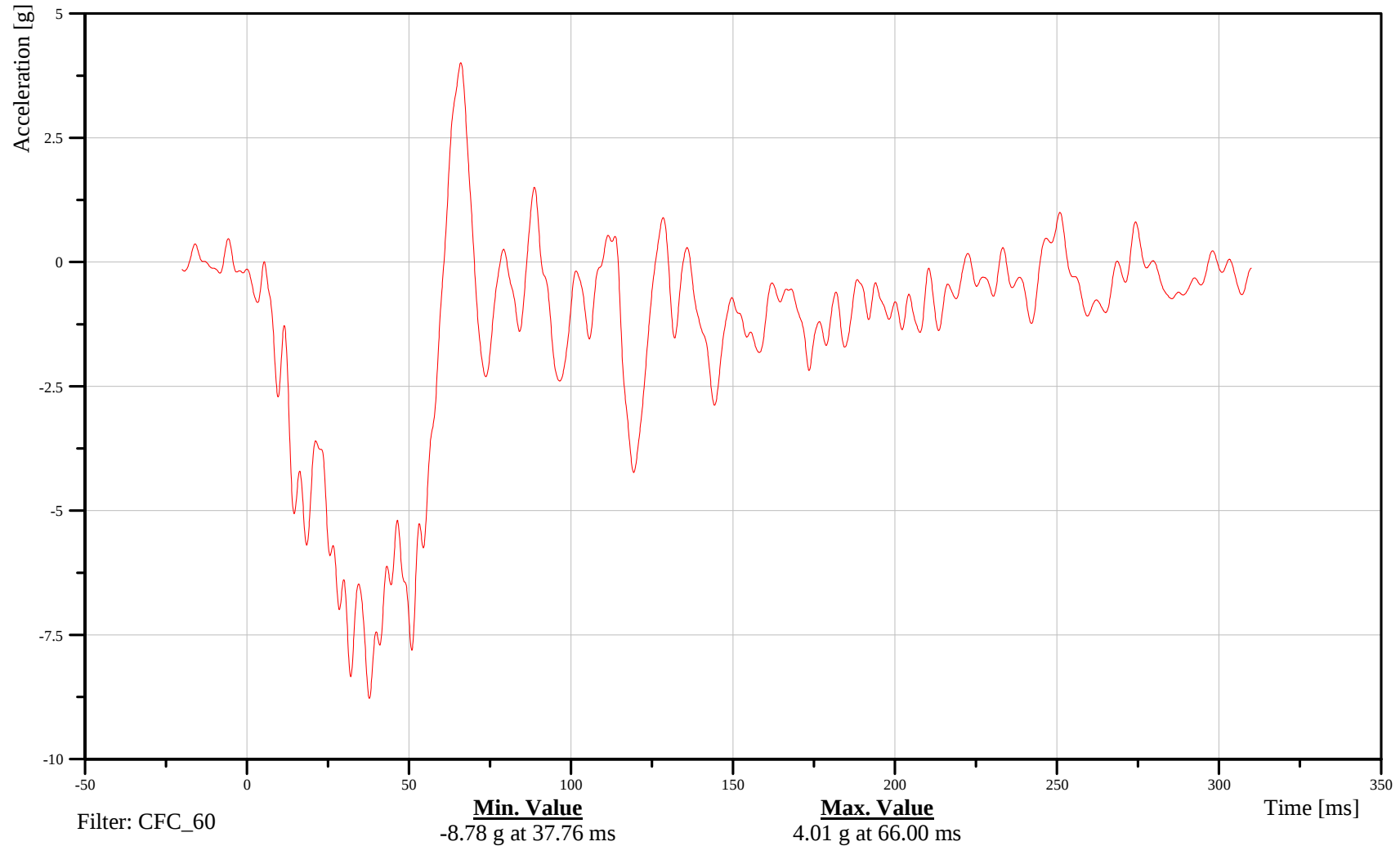
Date: 01/03/2007
Time: 15:44

MDB CENTER OF GRAVITY Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

M0VEHCCG0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-134

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

MDB CENTER OF GRAVITY Y-AXIS VELOCITY

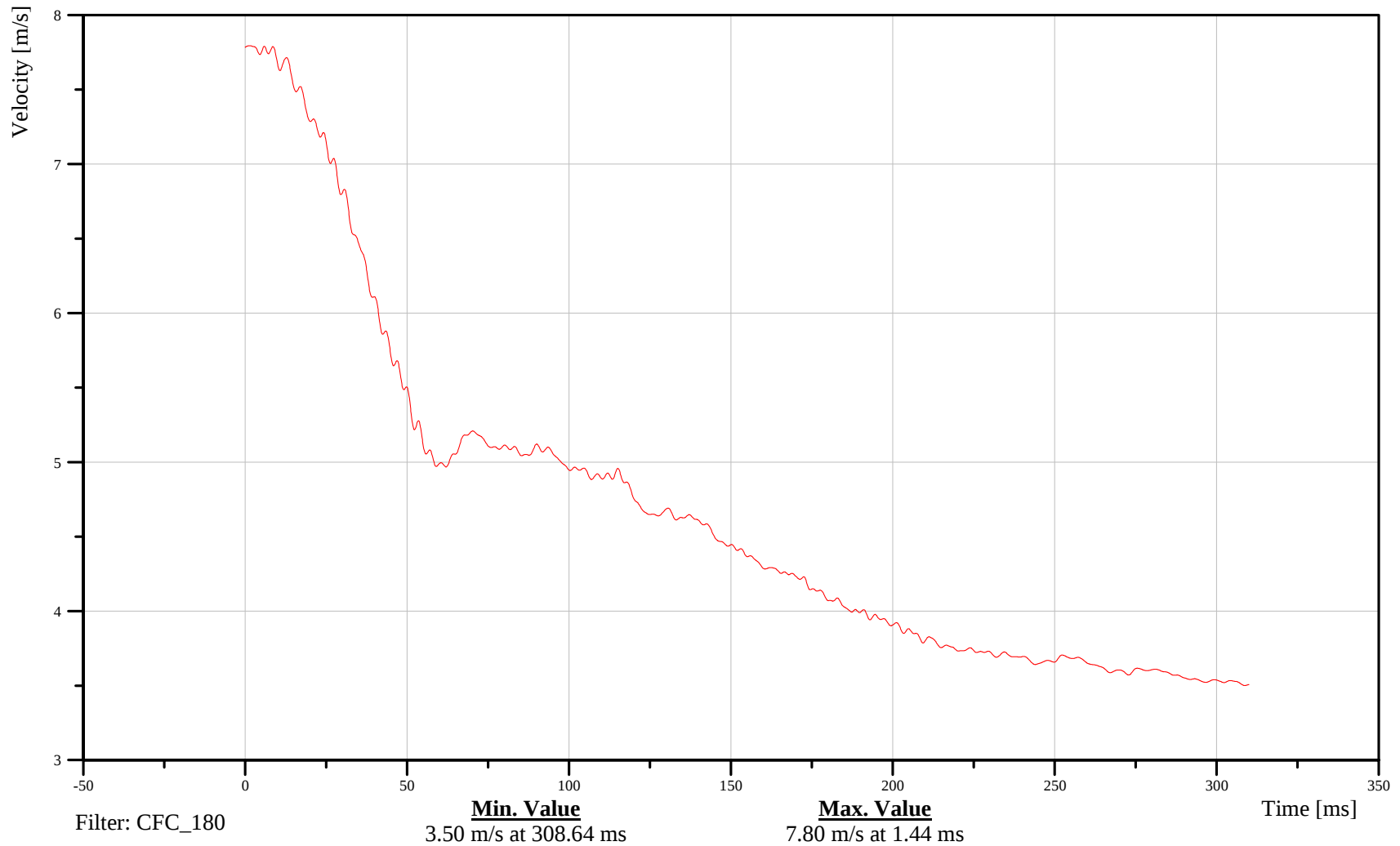
Customer: NHTSA

Test Number: C70202

M0VEHCCG0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-135

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

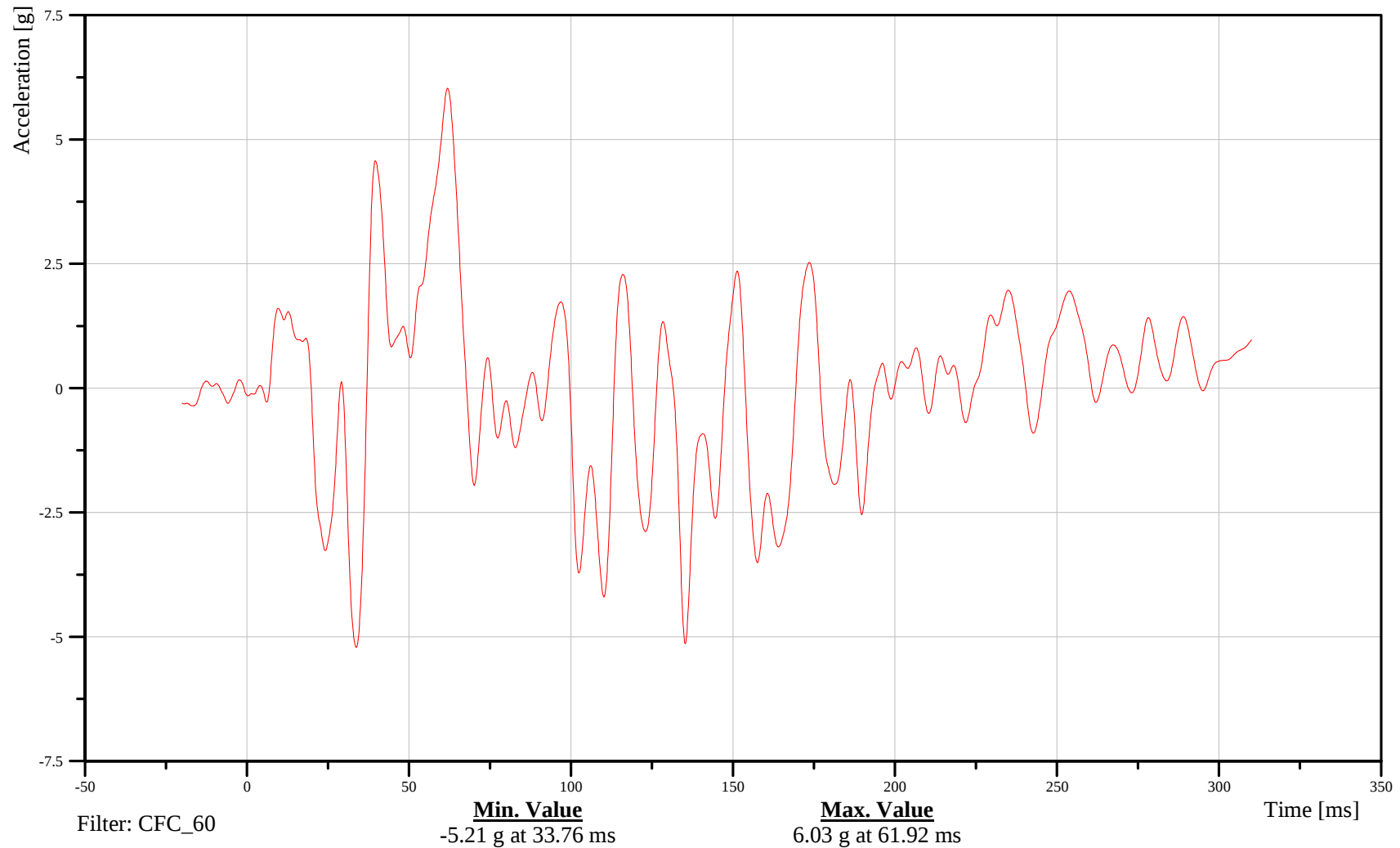
Date: 01/03/2007
Time: 15:44

MDB CENTER OF GRAVITY Z-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

M0VEHCCG0000ACZD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-136

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

MDB CENTER OF GRAVITY Z-AXIS VELOCITY

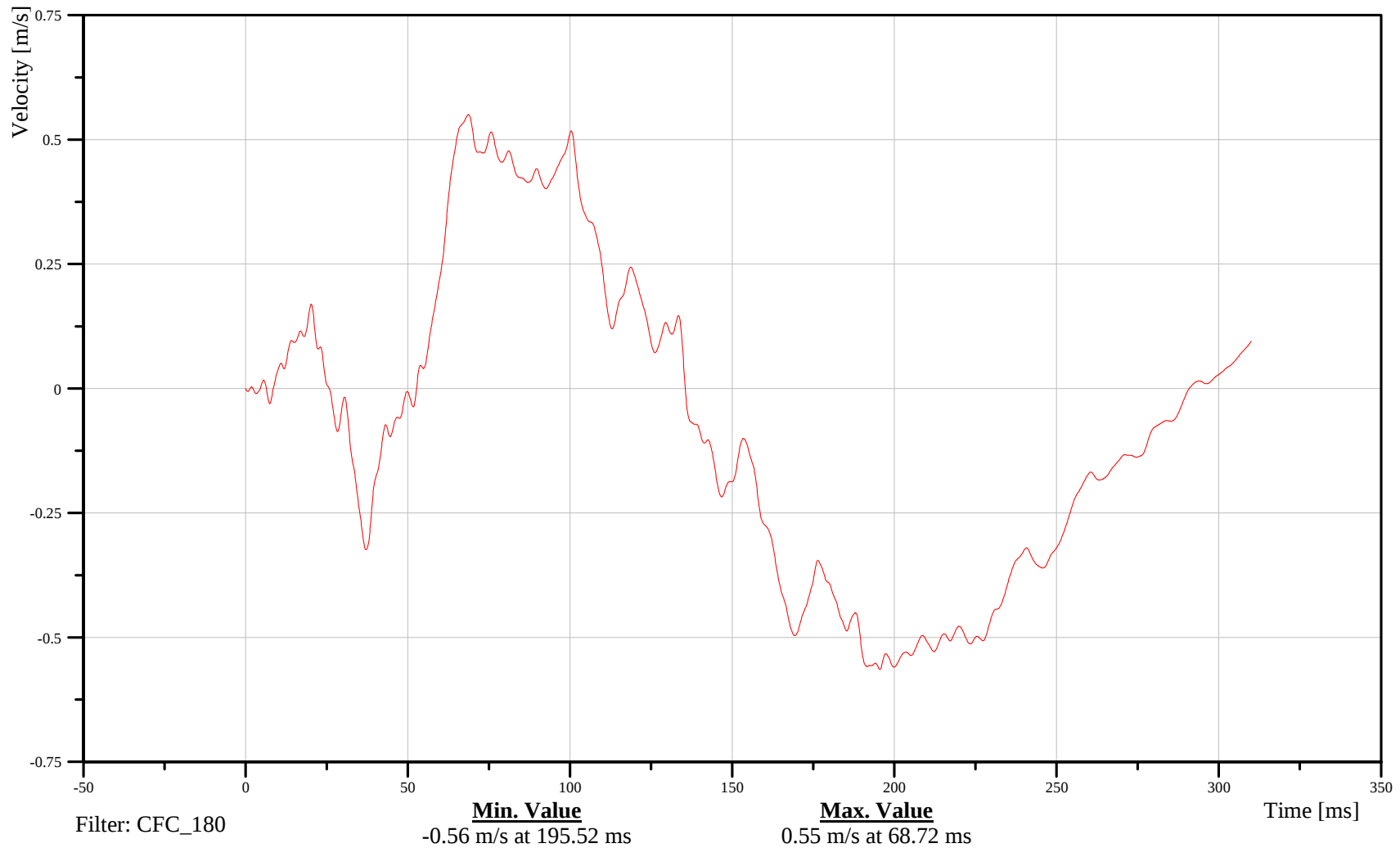
Customer: NHTSA

Test Number: C70202

M0VEHCCG0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 070103



B-137

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

MDB CENTER OF GRAVITY RESULTANT ACCELERATION

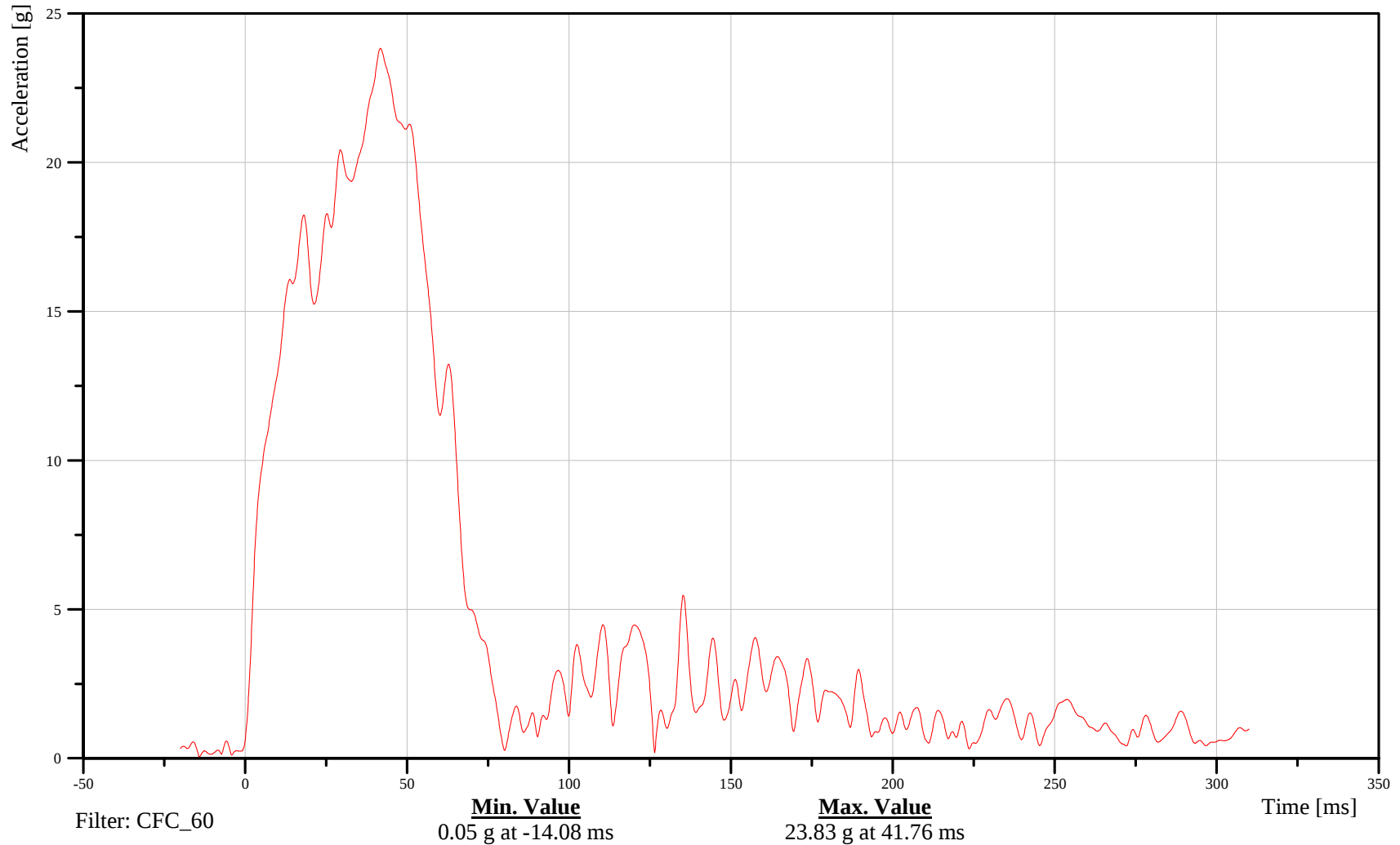
Customer: NHTSA

Test Number: C70202

M0VEHCCG0000ACRD

TRC Inc. Test Lab: CTF

Test Number: 070103



B-138

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

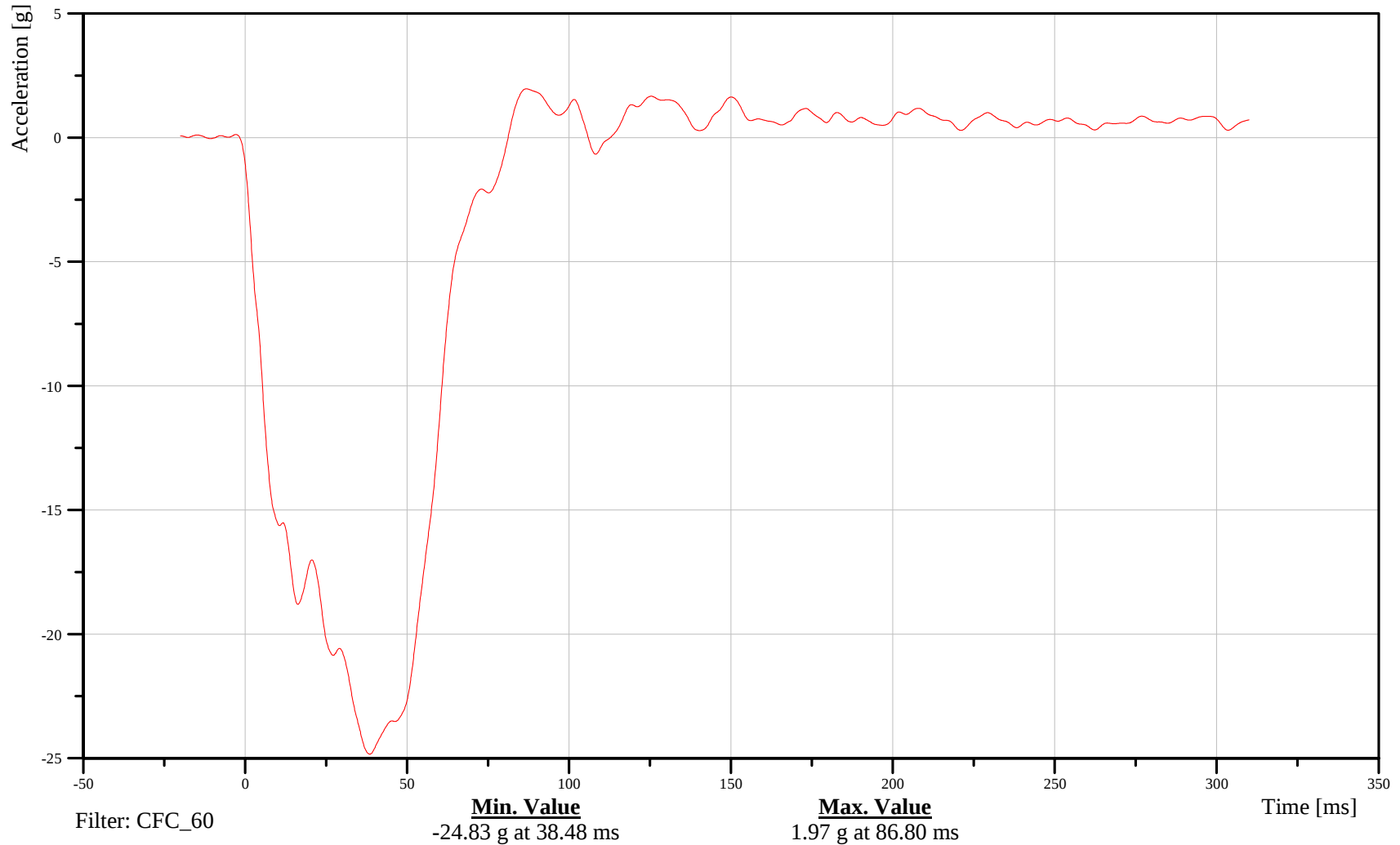
Date: 01/03/2007
Time: 15:44

MDB REAR X-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

M7FRAM000000ACXD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-139

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

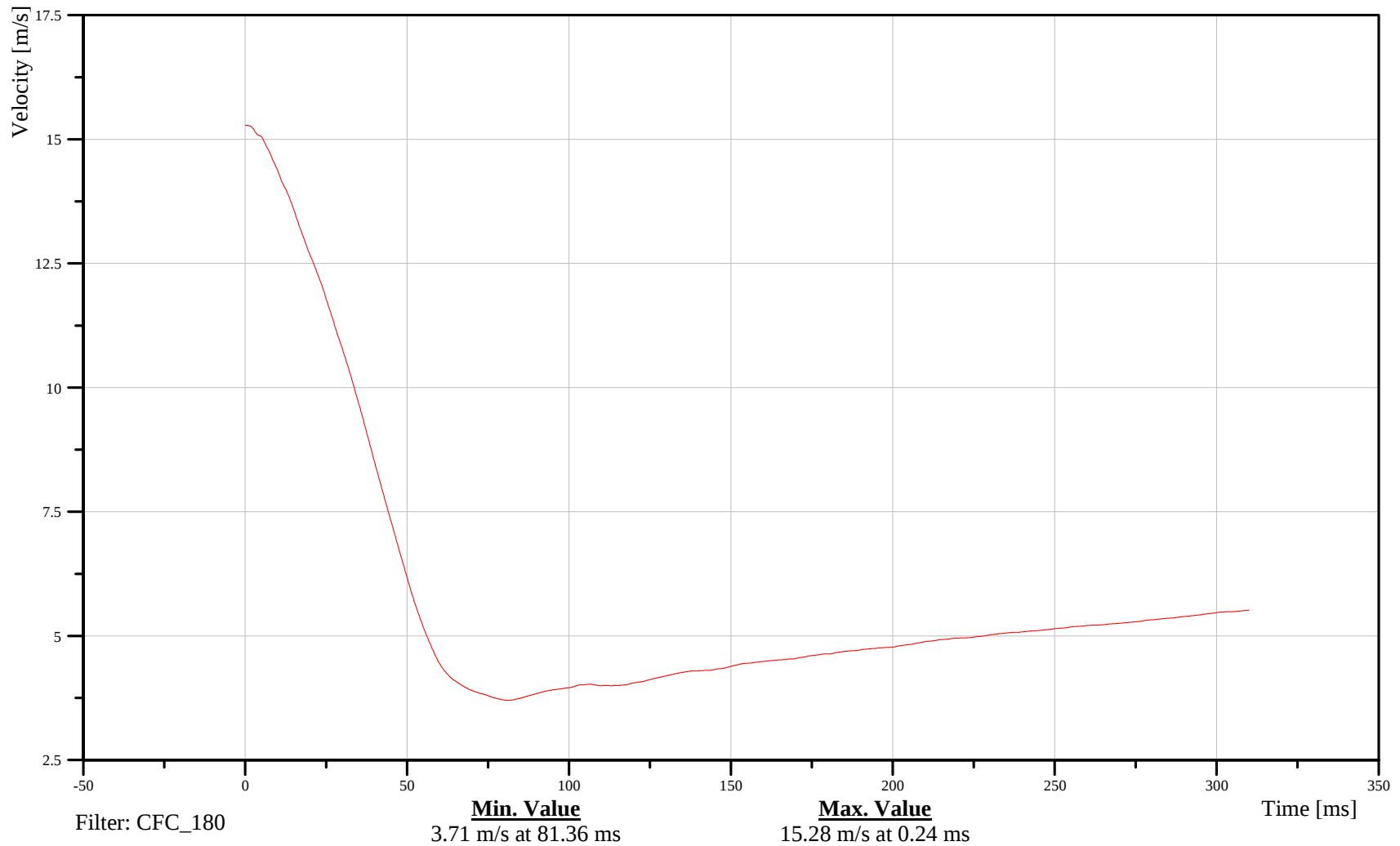
Date: 01/03/2007
Time: 15:44

MDB REAR X-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

M7FRAM000000VEXC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-140

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

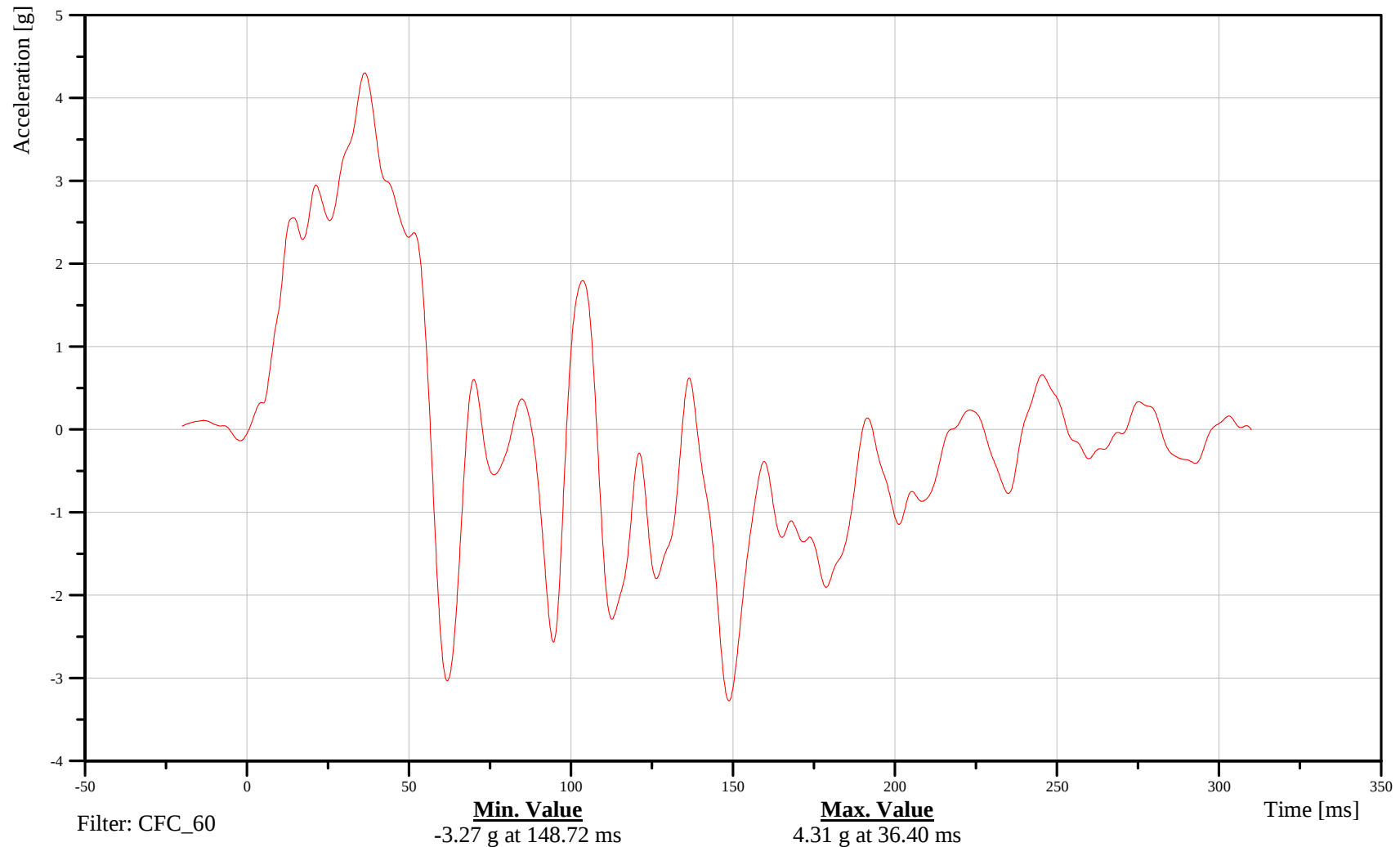
Date: 01/03/2007
Time: 15:44

MDB REAR Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

M7FRAM000000ACYD

TRC Inc. Test Lab: CTF
Test Number: 070103



B-141

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

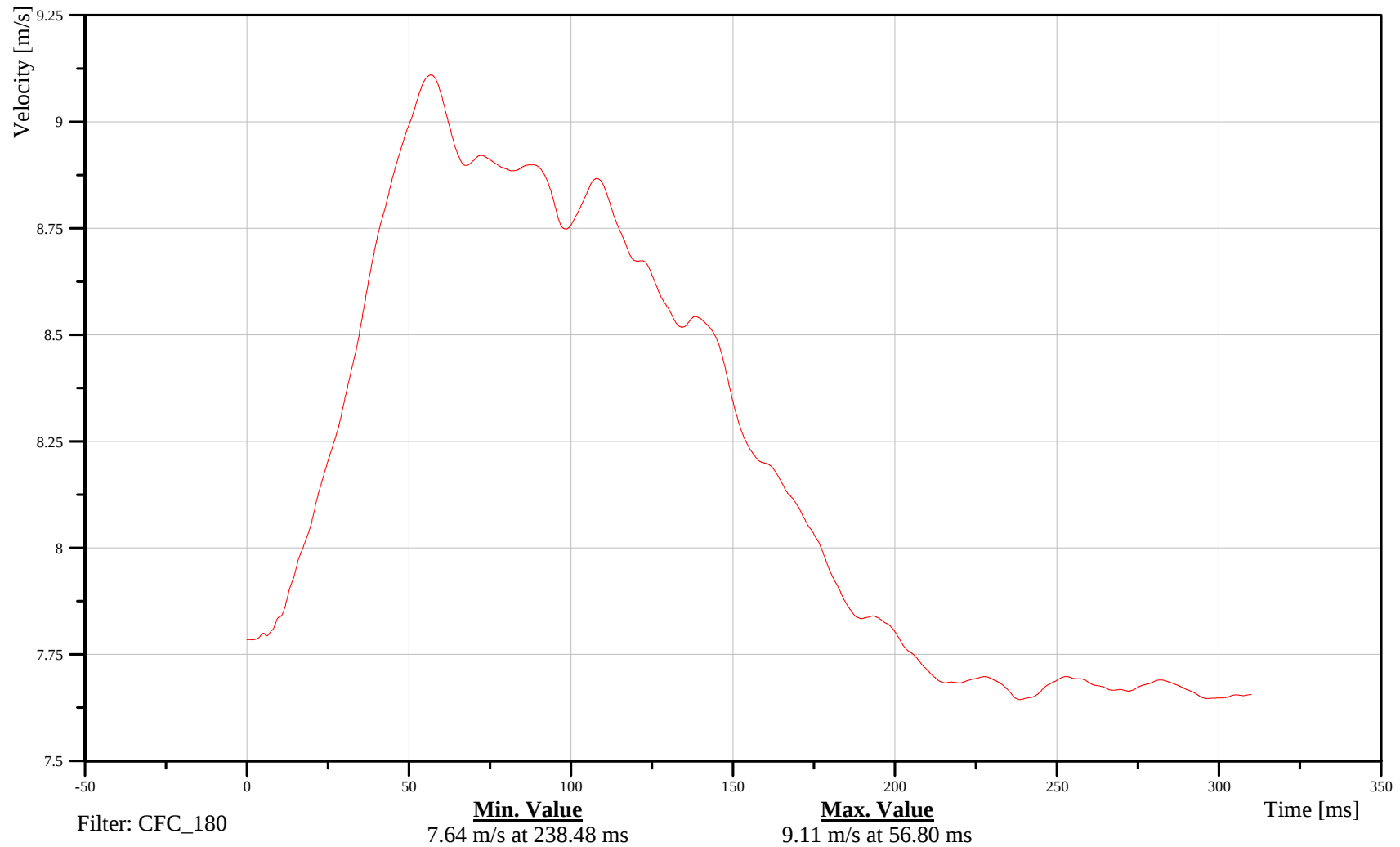
Date: 01/03/2007
Time: 15:44

MDB REAR Y-AXIS VELOCITY

Customer: NHTSA
Test Number: C70202

M7FRAM000000VEYC

TRC Inc. Test Lab: CTF
Test Number: 070103



B-142

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

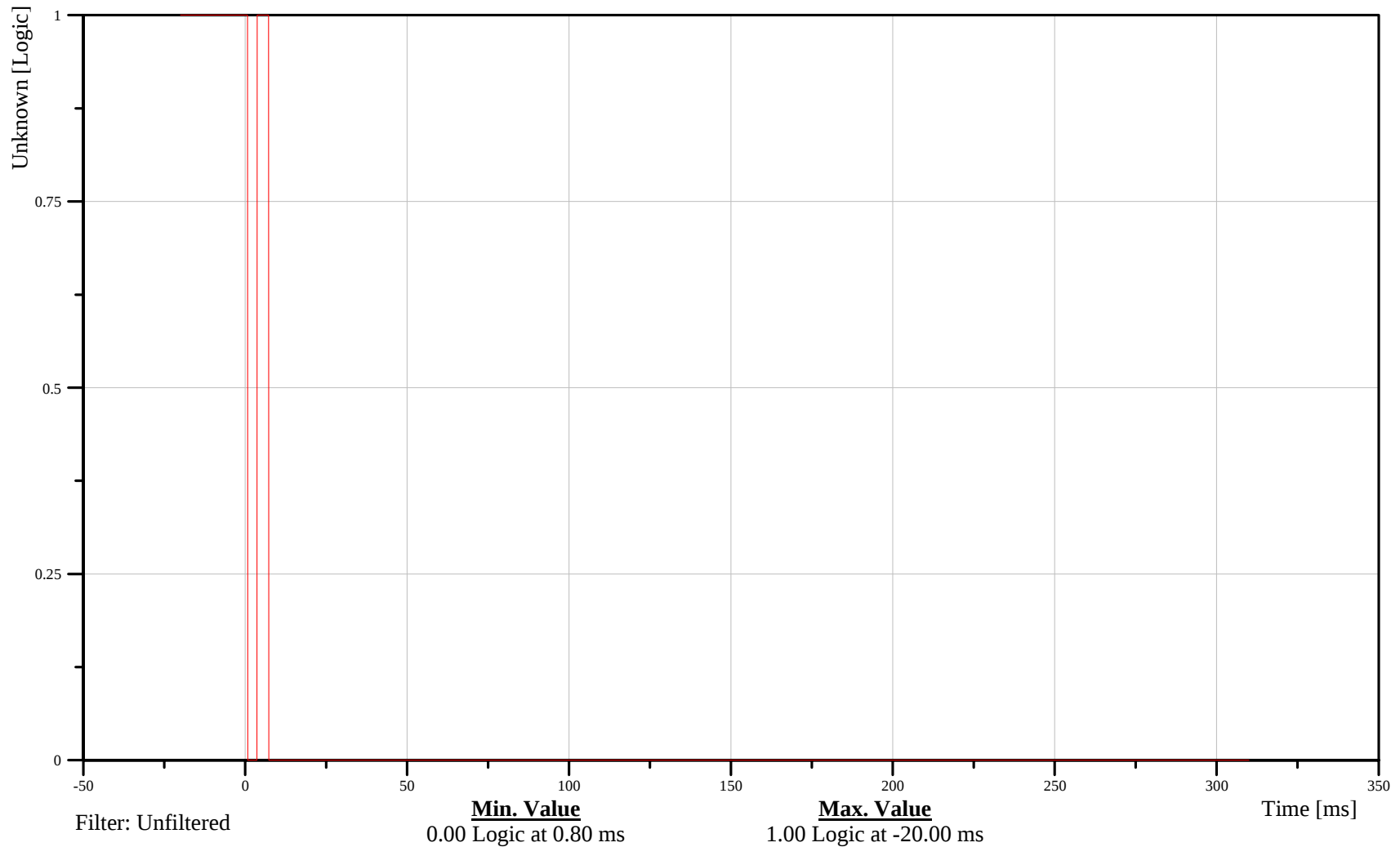
Date: 01/03/2007
Time: 15:44

MDB RIGHT CONTACT SWITCH

Customer: NHTSA
Test Number: C70202

M3CONT000000VO00

TRC Inc. Test Lab: CTF
Test Number: 070103



B-143

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

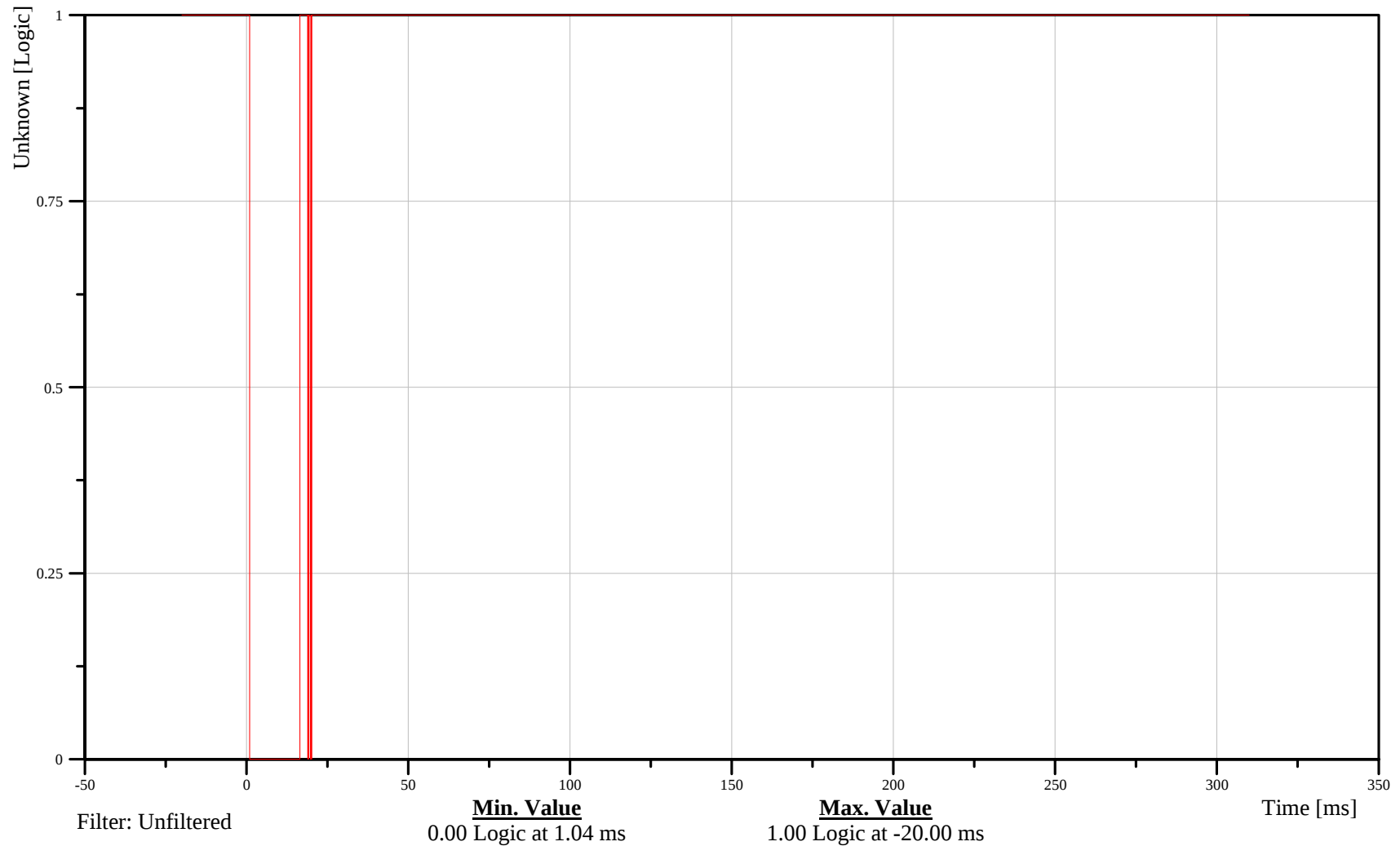
Date: 01/03/2007
Time: 15:44

MDB LEFT CONTACT SWITCH

Customer: NHTSA
Test Number: C70202

M1CONT000000VO00

TRC Inc. Test Lab: CTF
Test Number: 070103



B-144

070103

Driver and Passenger Dummy Instrumentation Plots



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

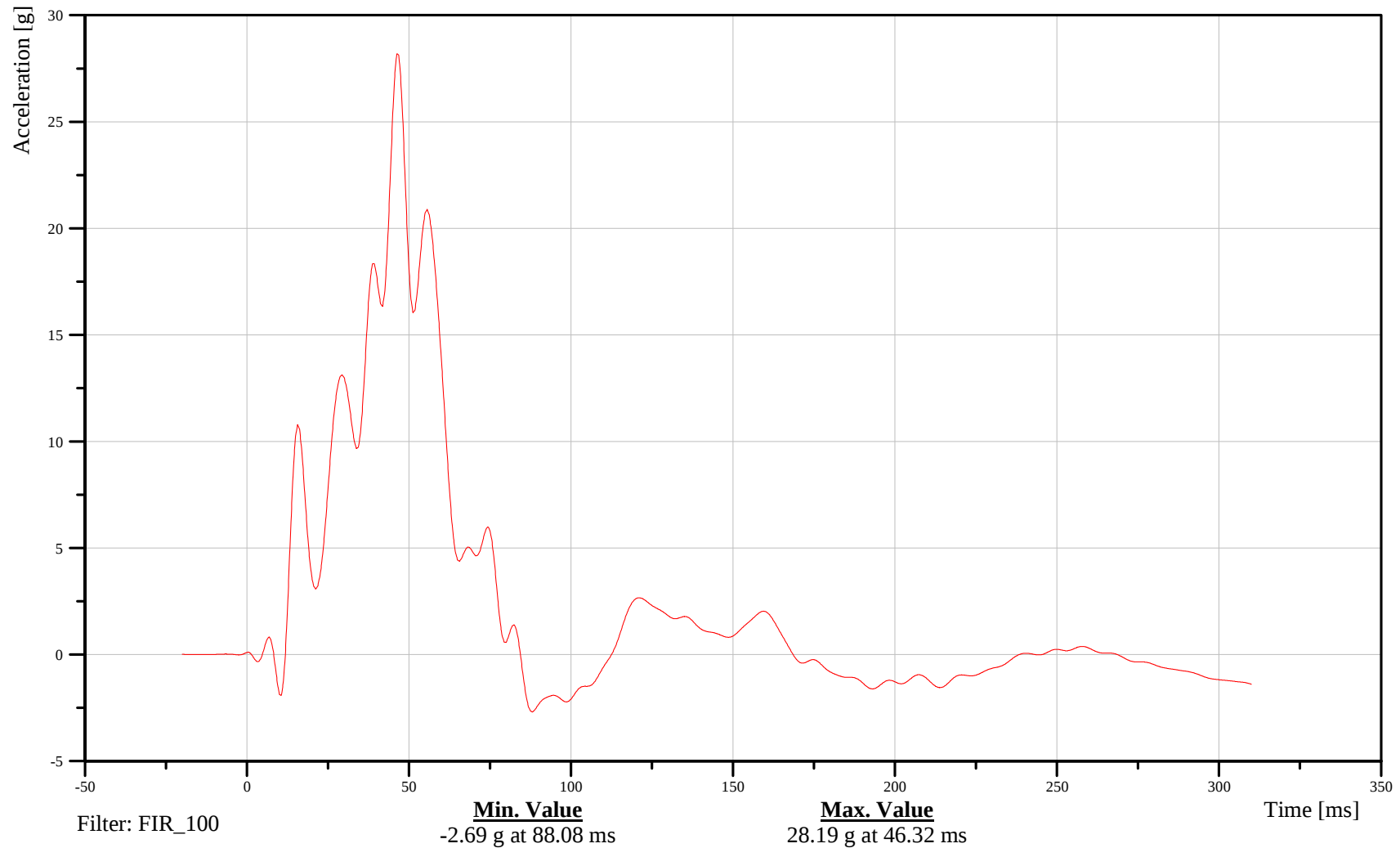
Date: 01/03/2007
Time: 15:44

DRIVER UPPER RIB Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSLU00SHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-146

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

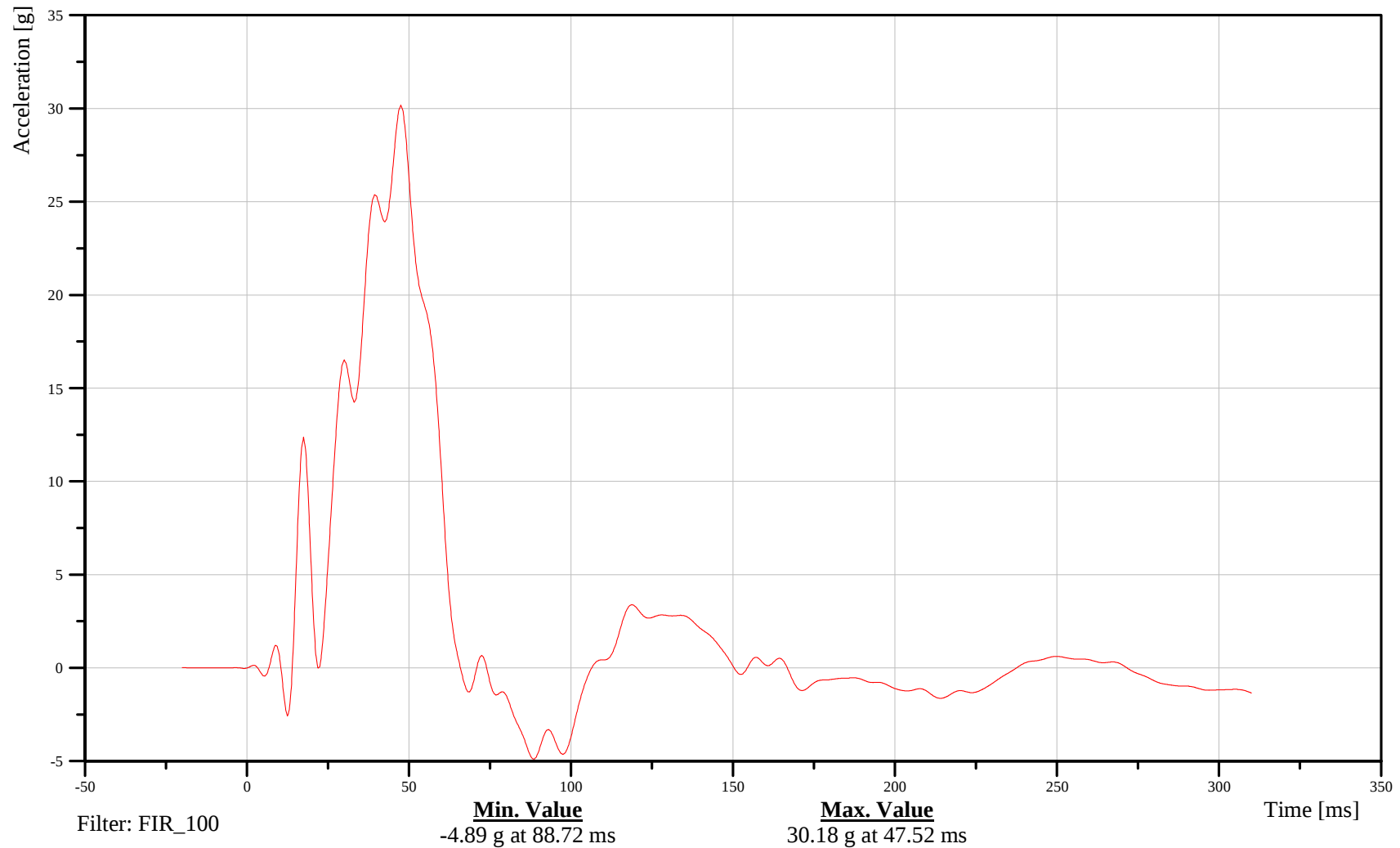
Date: 01/03/2007
Time: 15:44

DRIVER LOWER RIB Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSL00SHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-147

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

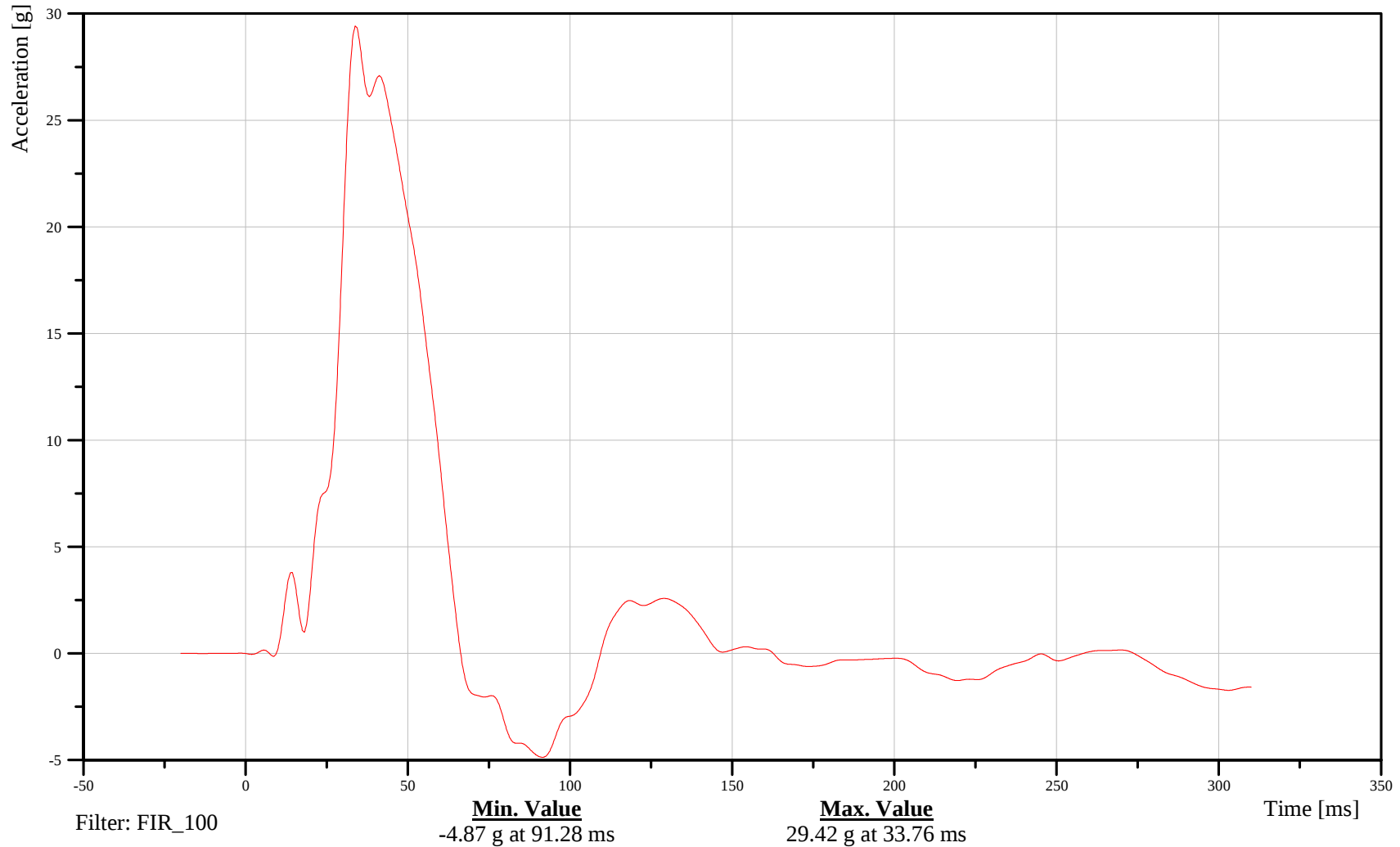
Date: 01/03/2007
Time: 15:44

DRIVER LOWER SPINE Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11SPIN1200SHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-148

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

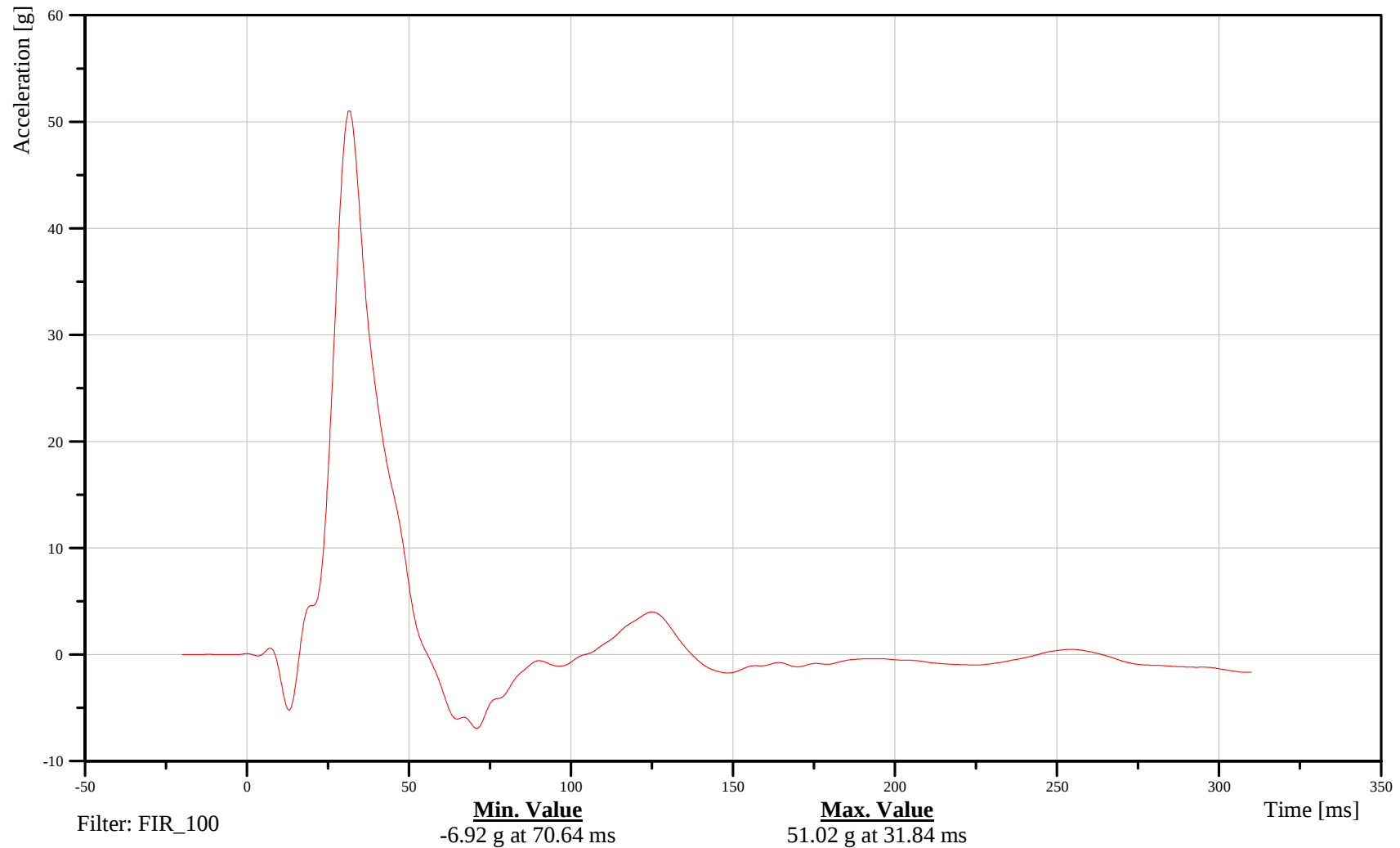
Date: 01/03/2007
Time: 15:44

DRIVER PELVIS Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

11PELVCG00SHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-149

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION

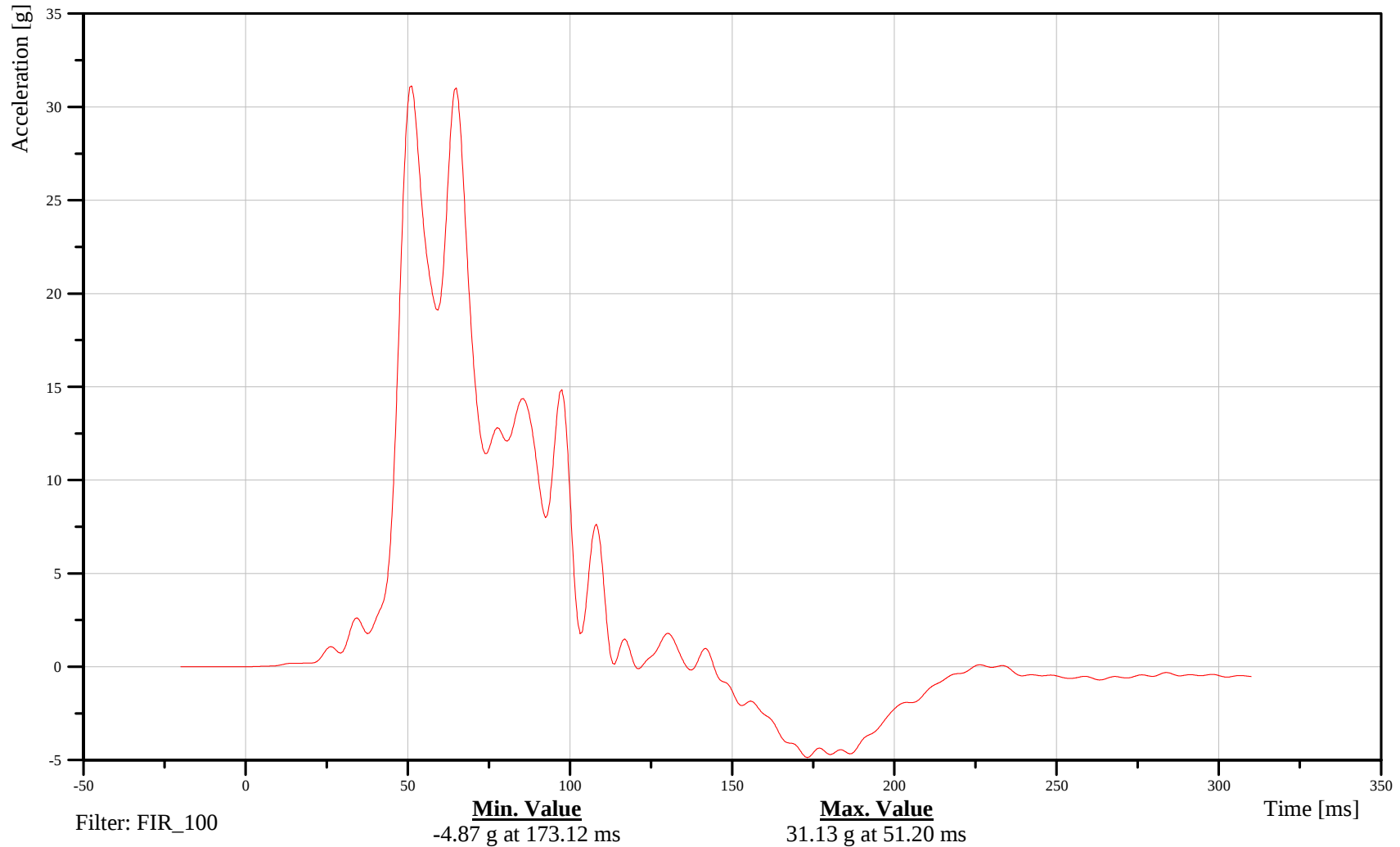
Customer: NHTSA

Test Number: C70202

14RIBSLU00SHACY1

TRC Inc. Test Lab: CTF

Test Number: 070103



B-150

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

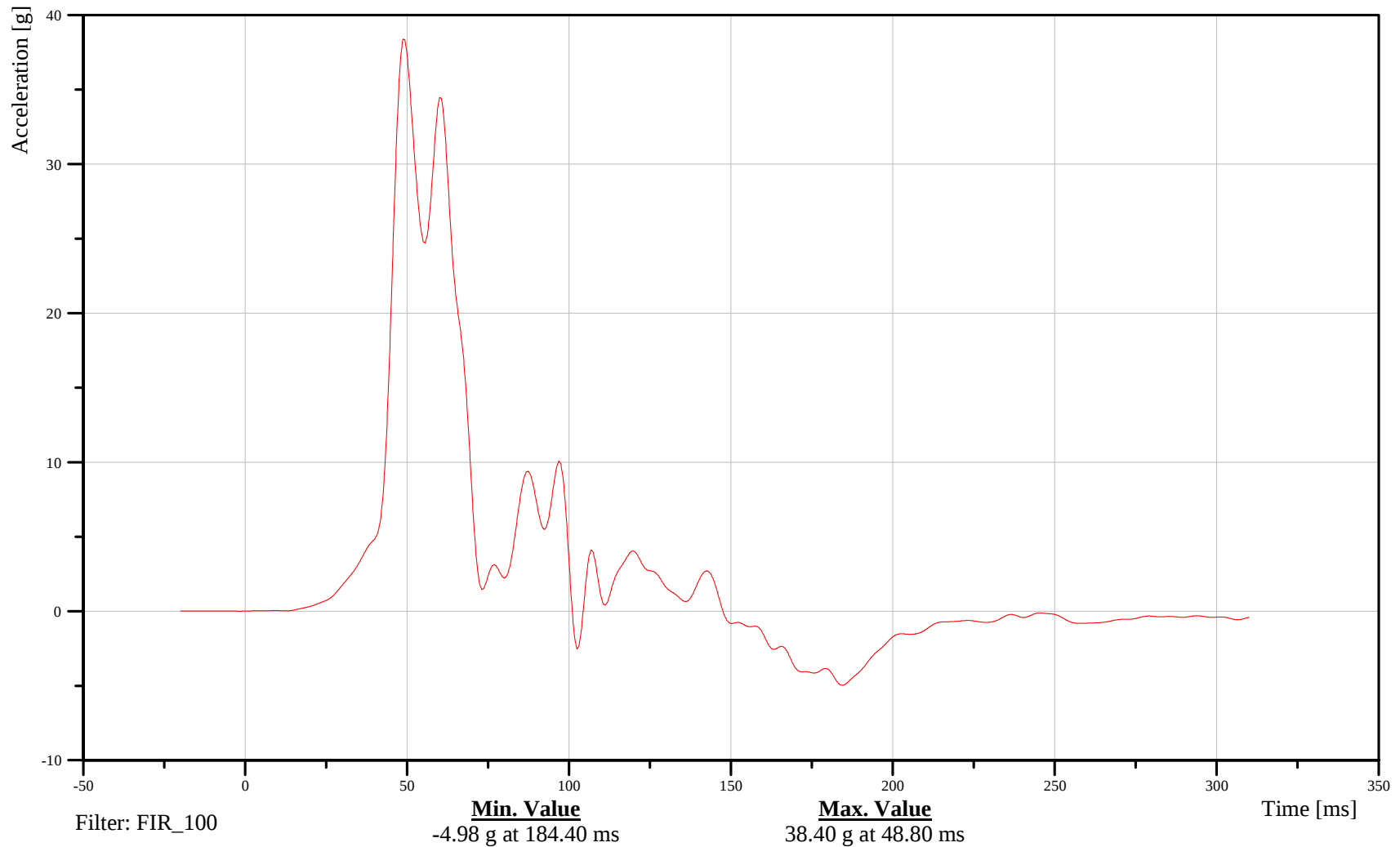
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14RIBSLL00SHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-151

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

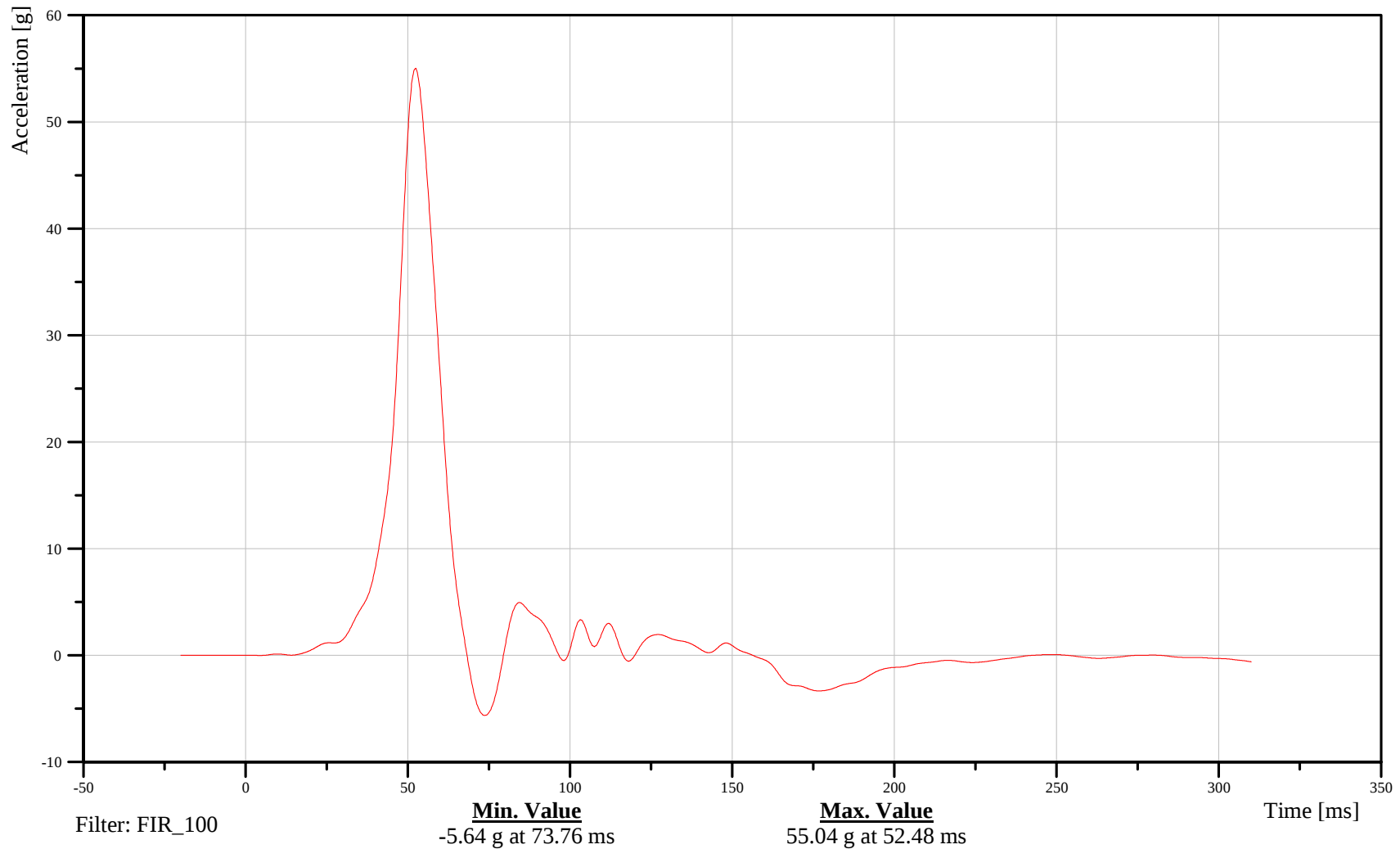
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION

Customer: NHTSA
Test Number: C70202

14SPIN1200SHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-152

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION

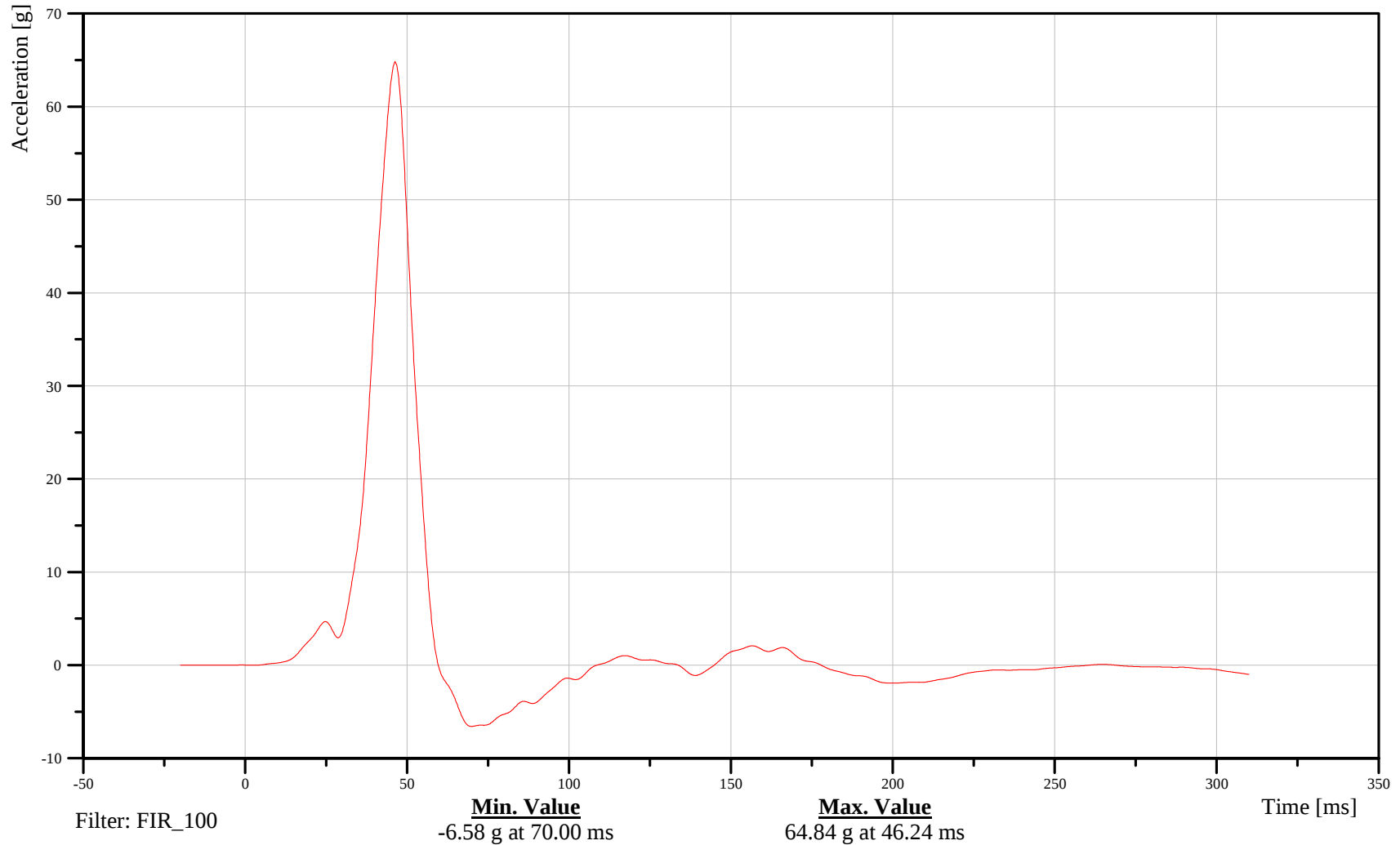
Customer: NHTSA

Test Number: C70202

14PELVCG00SHACY1

TRC Inc. Test Lab: CTF

Test Number: 070103



B-153

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007
Time: 15:44

DRIVER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

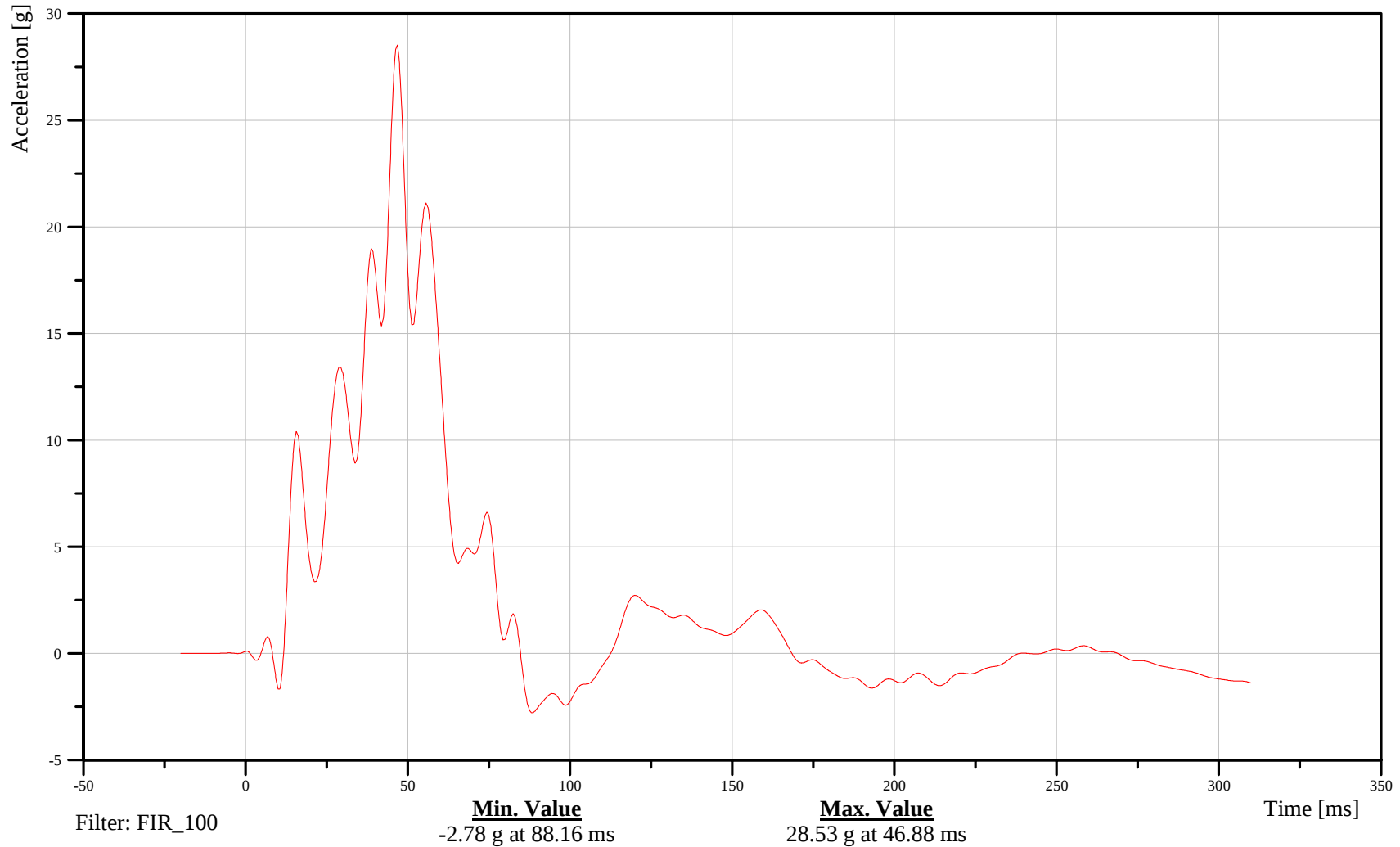
Customer: NHTSA

Test Number: C70202

11RIBSLURESHACY1

TRC Inc. Test Lab: CTF

Test Number: 070103



B-154

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

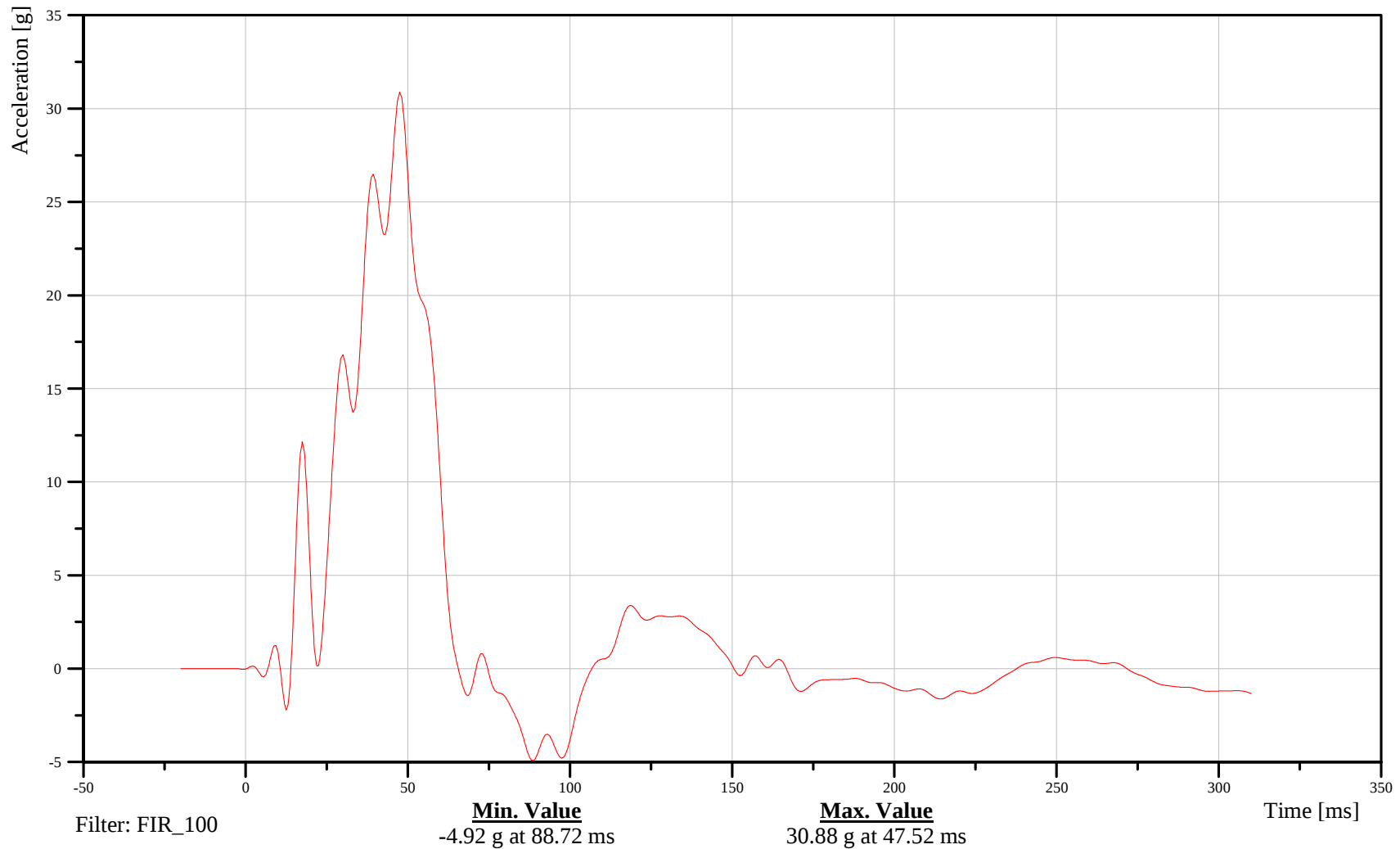
Date: 01/03/2007
Time: 15:44

DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

11RIBSLLRESHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-155

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

DRIVER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

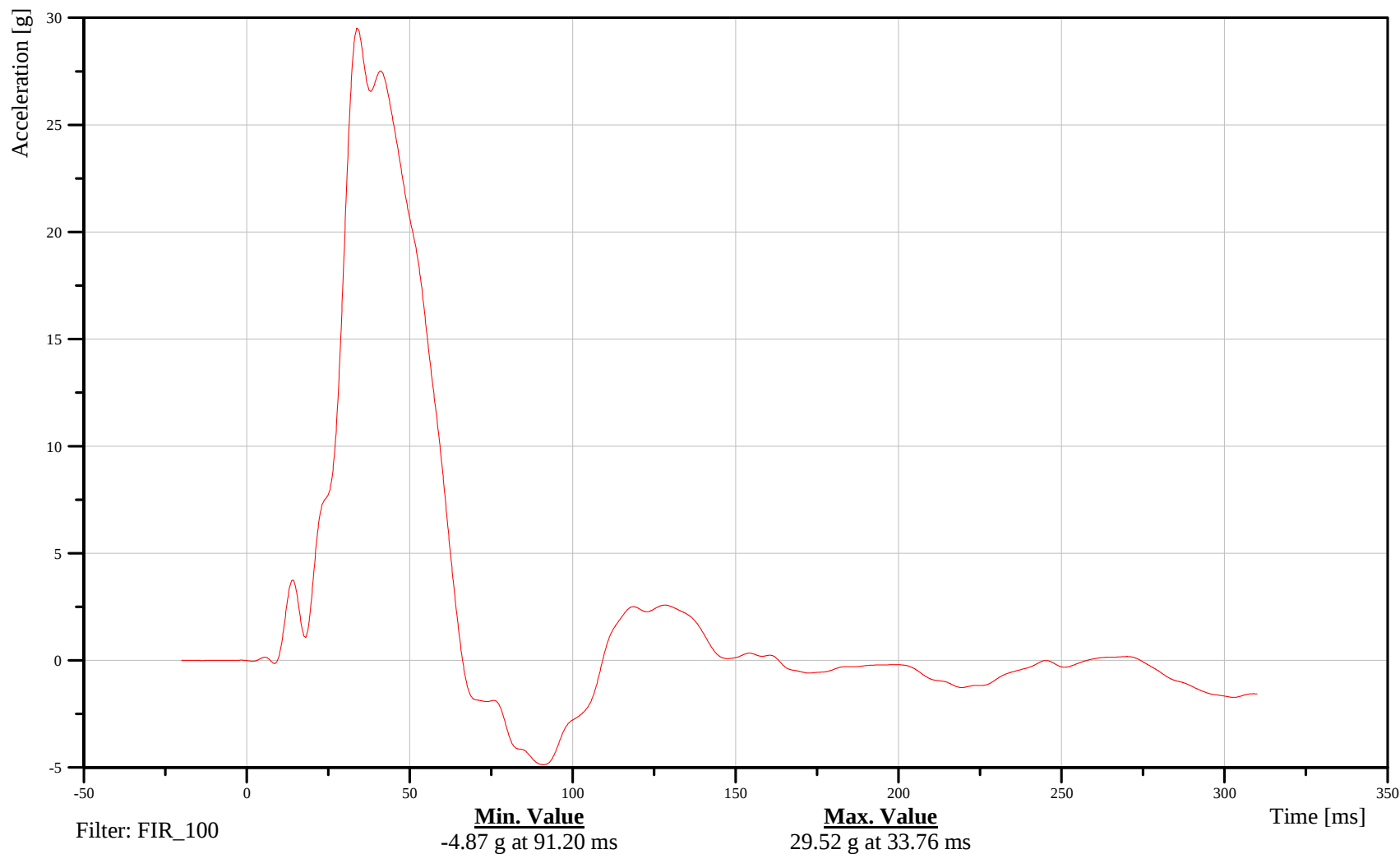
Customer: NHTSA

Test Number: C70202

11SPIN12RDSHACY1

TRC Inc. Test Lab: CTF

Test Number: 070103



B-156

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

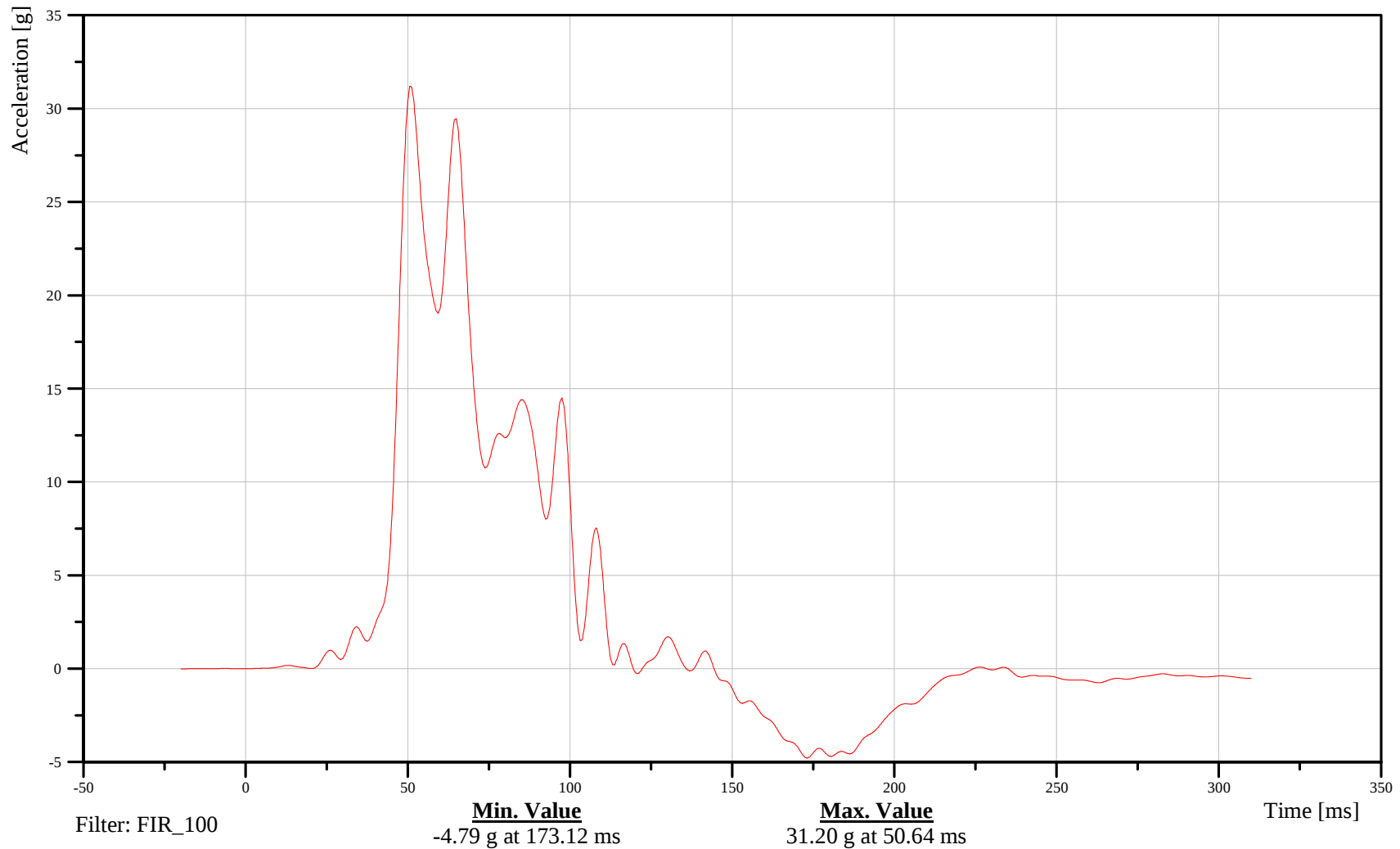
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

14RIBSLURESHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-157

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

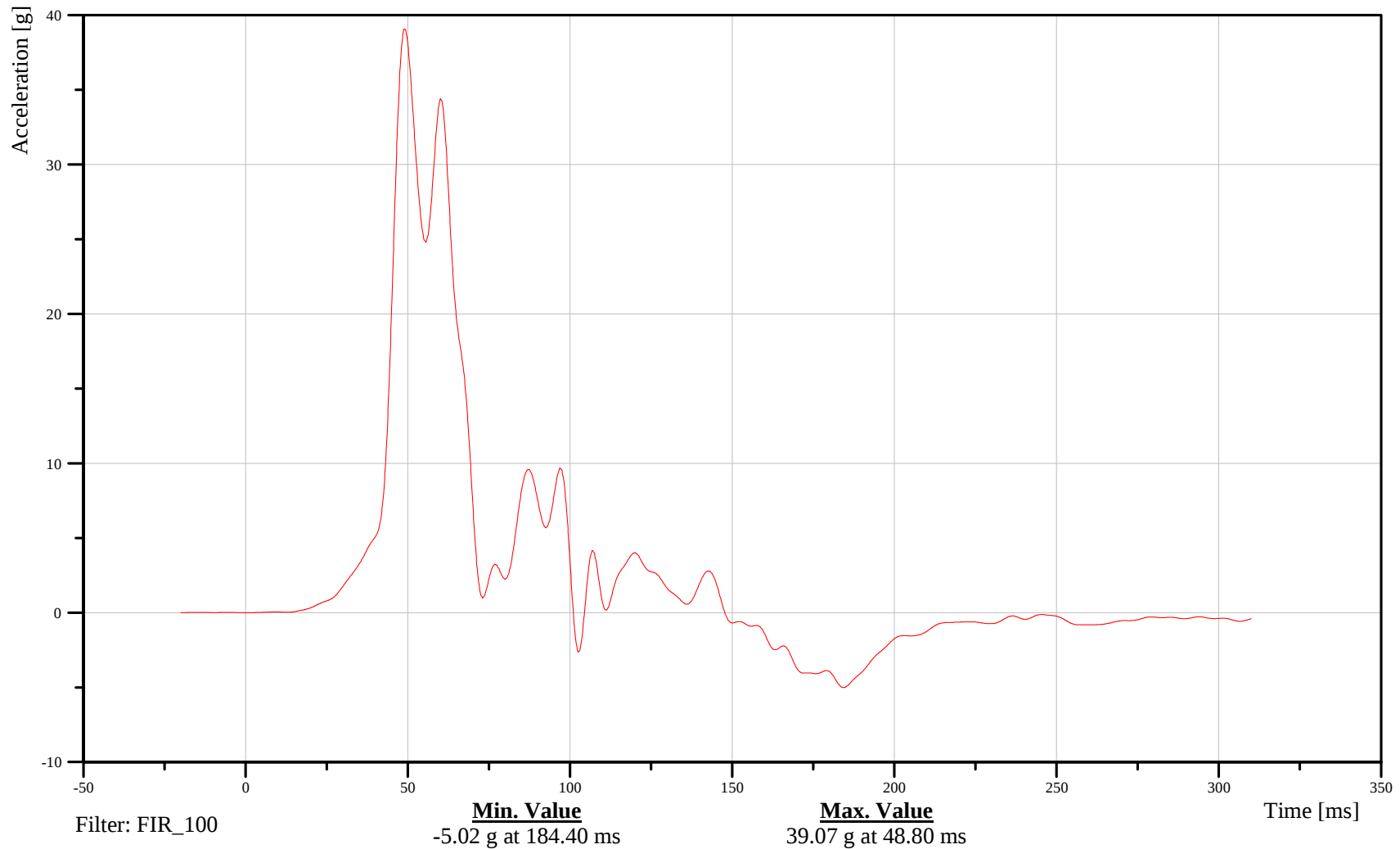
Date: 01/03/2007
Time: 15:44

LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

Customer: NHTSA
Test Number: C70202

14RIBSLLRESHACY1

TRC Inc. Test Lab: CTF
Test Number: 070103



B-158

070103



56/28 kph 90 Degree Side Impact (MDB) into Left Side of 2007 Ford Edge

Date: 01/03/2007

Time: 15:44

LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

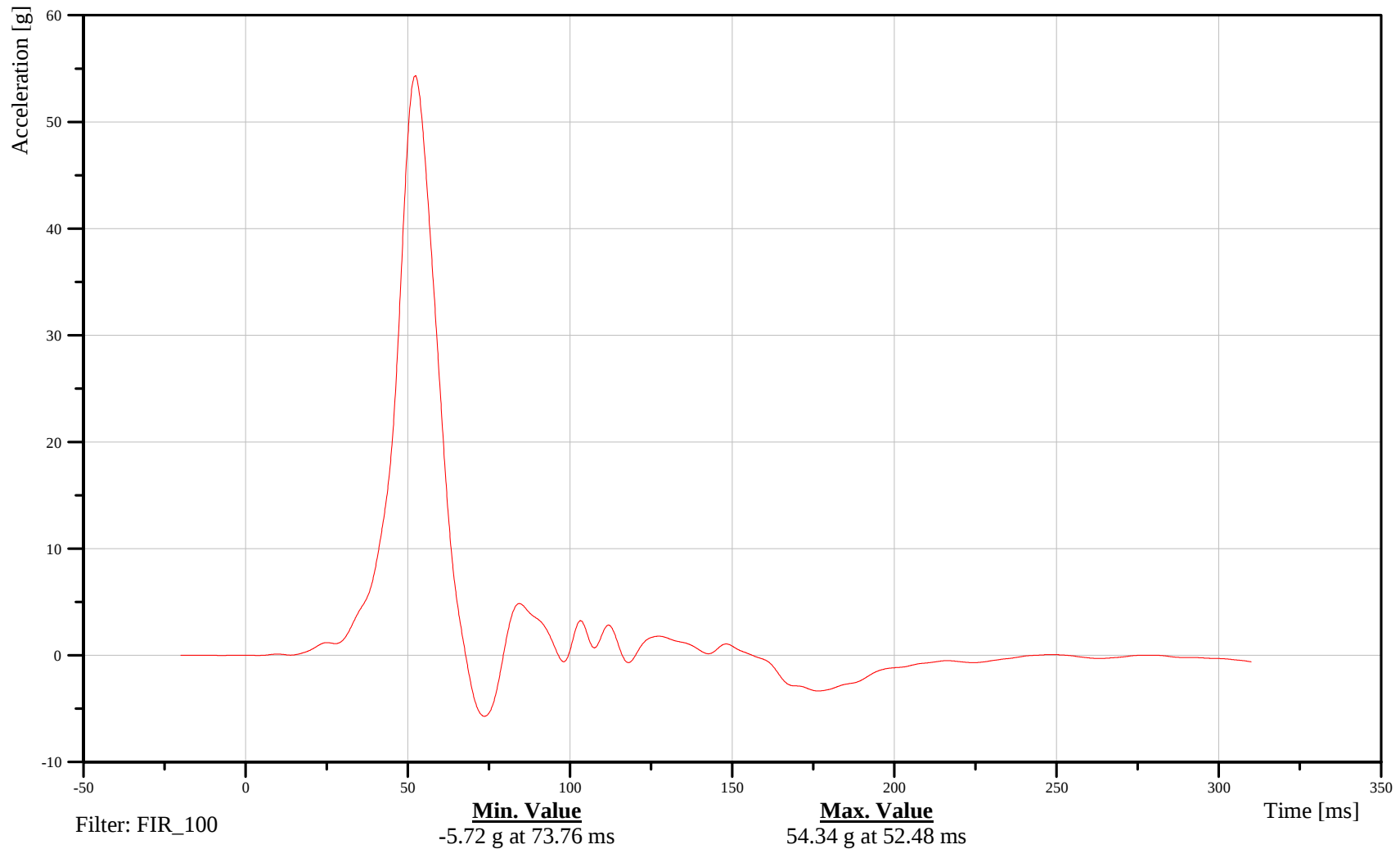
Customer: NHTSA

Test Number: C70202

14SPIN12RDSHACY1

TRC Inc. Test Lab: CTF

Test Number: 070103



B-159

070103

Appendix C

SID HIII Configuration and Performance Verification Data

Summary
 SID HIII Pre-Test and Post-Test Calibration
 Configured For Left Side Impact

Date: 12/04/06 TRC Inc. Test Number: S/N 059 & S/N 055
 Laboratory Technician: Charles Hall & Ronald Stoner

Test Parameter	Specification	SID HIII 059		SID HIII 055	
		Pre-Test	Post-Test	Pre-Test	Post-Test
SH - Seated Height (mm)	889-909	902	904	903	905
RH - Rib Height (mm)	502-520	512	513	505	510
HP - Hip Pivot Height (mm)	99 ref	99.1	99.1	99.1	99.1
KH - Knee Pivot from Back Line (mm)	511-526	520	518	521	518
KV - Knee Pivot to Floor (mm)	490-505	500	500	499	500
HW - Hip Width (mm)	356-391	363	366	359	370
Thorax Impacts					
Temperature (°C)	18.9-25.5	20.9	21.0	21.0	20.9
Relative Humidity (%)	10-70	28	34	26	34
Probe Speed (m/s)	4.27-4.33	4.288	4.291	4.287	4.297
Upper Rib (g's)	37-46	44.0	41.7	44.5	45.4
Lower Rib (g's)	37-46	41.9	40.6	43.5	44.9
Lower Spine (g's)	15-22	19.9	19.1	20.4	20.5
Pelvis Impacts					
Temperature (°C)	18.9-25.5	20.9	21.3	21.3	21.2
Relative Humidity (%)	10-70	27	33	26	33
Probe Speed (m/s)	4.27-4.33	4.293	4.294	4.315	4.299
Pelvis (g's)	40-60	43.9	46.0	55.8	46.4

Calibration Test Results

Pre-Test

SID HIII: 059

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was tested on October 20, 2006 for a previous calibration series.

Transportation Research Center Inc.
SID/HIII Dummy Post-Test
External Dimensions
Serial No. 059 Calibration No. 20

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	902 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	512 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	520 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	500 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	363 mm	Yes
Top Rib Width From C/L	RW-1	165.1 - 180.3 mm	172 mm	Yes
Bottom Rib Width From C/L	RW-2	165.1 - 180.3 mm	172 mm	Yes
Difference Between Top & Bottom Rib Width from C/L		<= 2.5 mm	0.0 mm	Yes

Technician

Charles Bell

Approved

Ron Stoner



Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 059 Certification No. 20-2

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	26 %	Yes
Peak Head Resultant Acceleration	120 - 150 g	144.4 g	Yes
Peak Head Longitudinal Acceleration	(-15) - 15 g	-5.7 g	Yes
Is Head Resultant Acceleration Curve Unimodal Within 15% of Peak?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Charles Bell

Approved

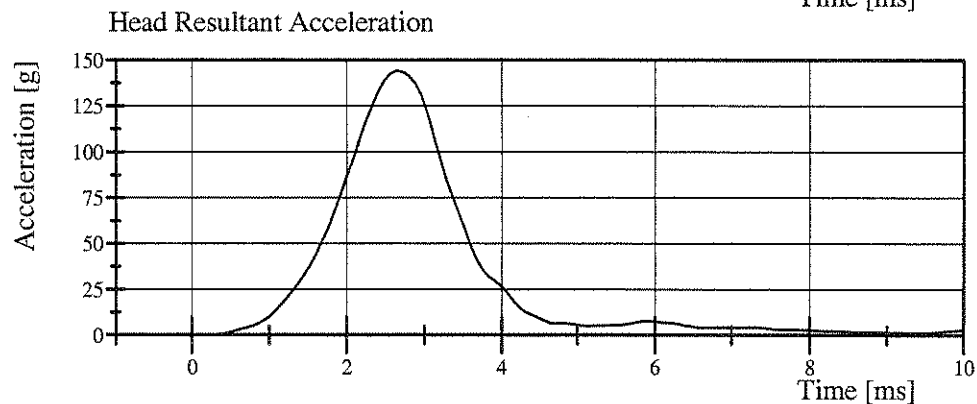
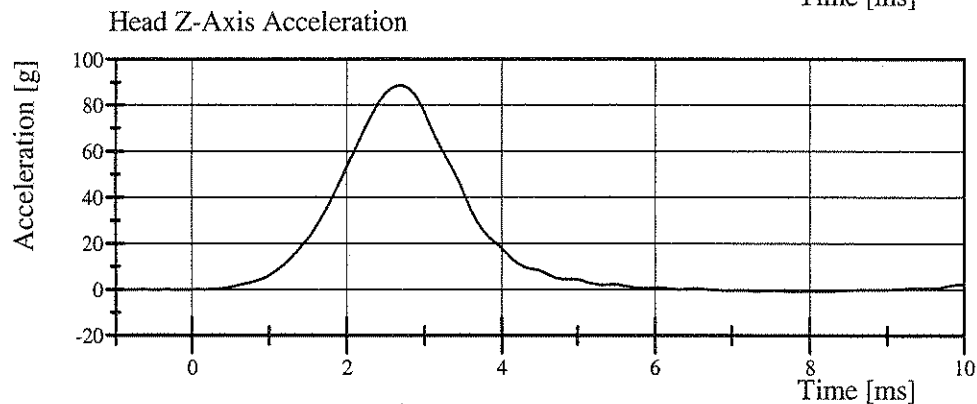
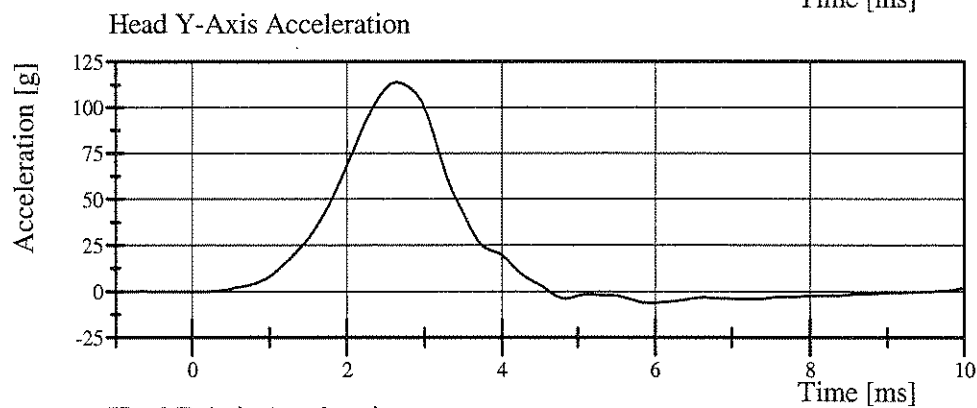
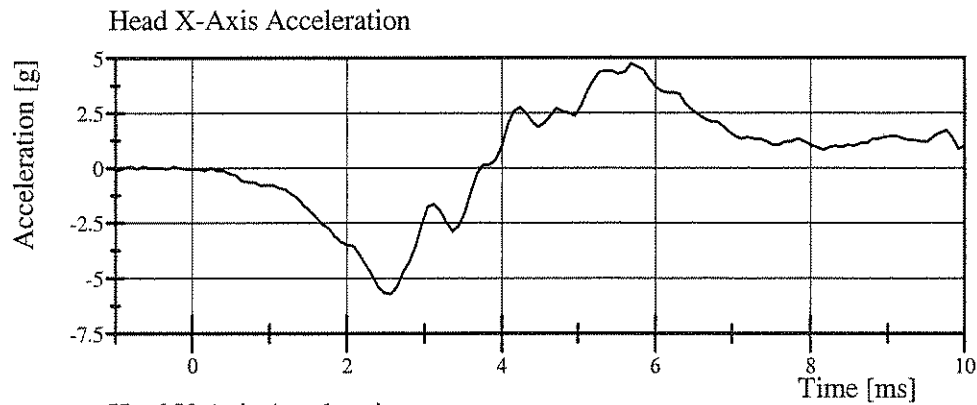
Ron Stoner

Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 059 Certification No. 20-2

Test Date: 12/5/2006



Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 20-1

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	25 %	Yes
Pendulum Velocity	(-6.89) - (-7.13) m/s	-7.096 m/s	Yes
Pendulum Integrated Velocity Change at 10 ms	1.96 - 2.55 m/s	2.368 m/s	Yes
Pendulum Integrated Velocity Change at 20 ms	4.12 - 5.10 m/s	4.719 m/s	Yes
Pendulum Integrated Velocity Change at 30 ms	5.73 - 7.01 m/s	6.663 m/s	Yes
Pendulum Integrated Velocity Change at 40 to 70 ms	6.27 - 7.64 m/s	7.196 m/s	Yes
Total Head D-Plane Rotation	(-66) - (-82) °	-69.6 °	Yes
Total Head D-Plane Rotation Time to 0° after Peak Rotation	58 - 67 ms	58.3 ms	Yes
Total Neck Occipital Condyle Moment	73 - 88 N·m	81.2 N·m	Yes
Total Neck Occipital Condyle Moment Time to 0 N·m after Peak Moment	49 - 64 ms	52.9 ms	Yes
Time from Peak Moment to Peak Rotation	2 - 16 ms	8.1 ms	Yes

Test meets specifications.

Comments:

Technician

Charles Hall

Approved

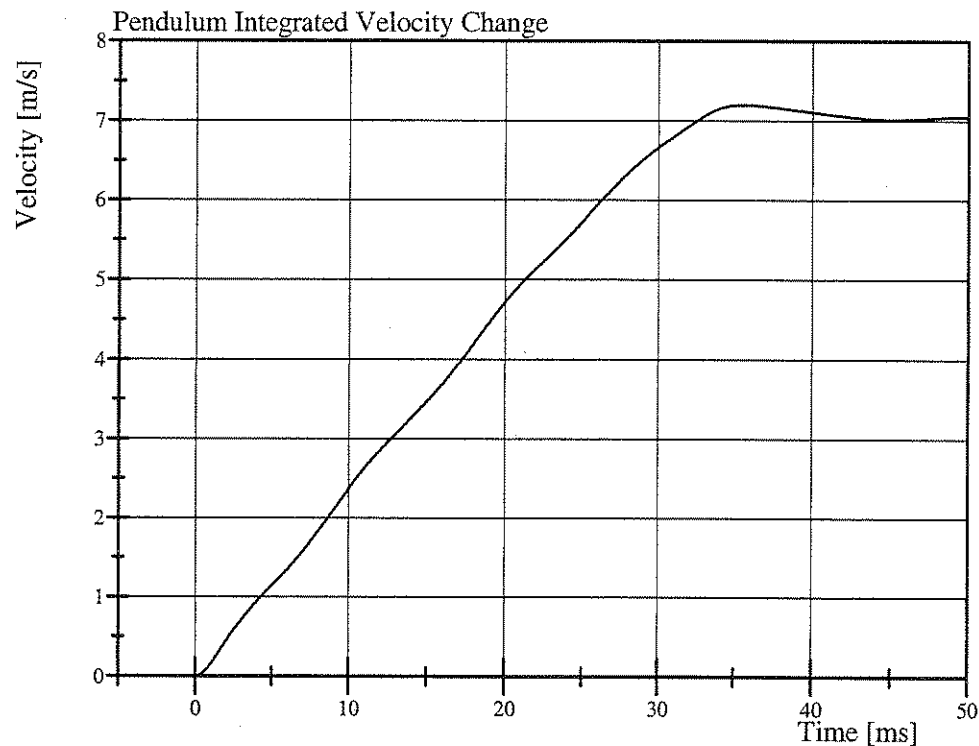
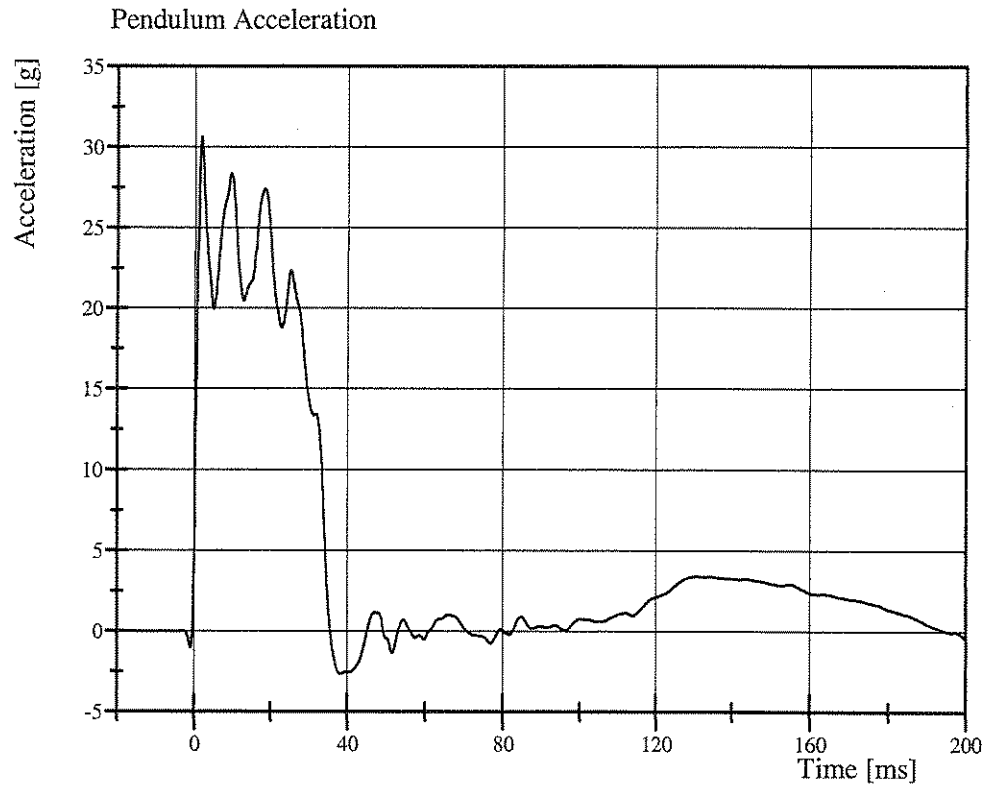
Ron Stoner

Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 20-1

Test Date: 12/5/2006



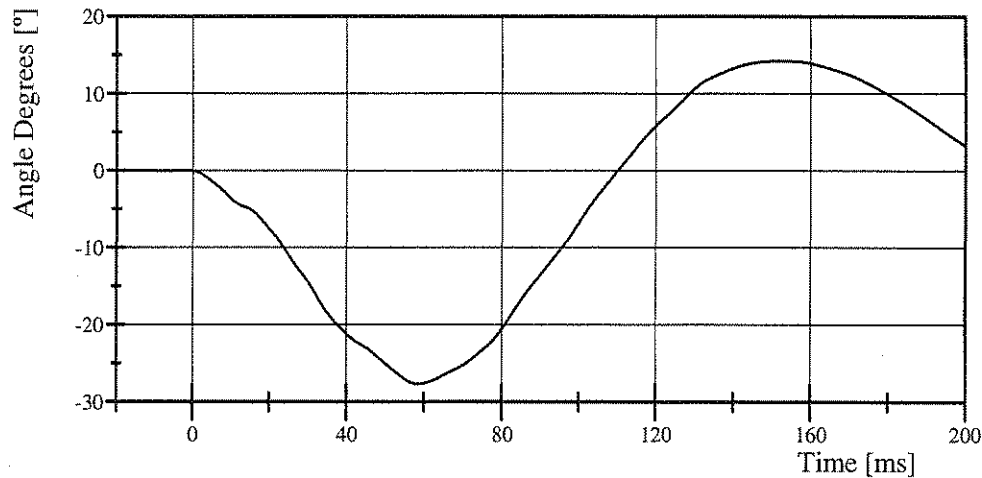
Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 20-1

Test Date: 12/5/2006

Pot Rotation at the Base of Neck

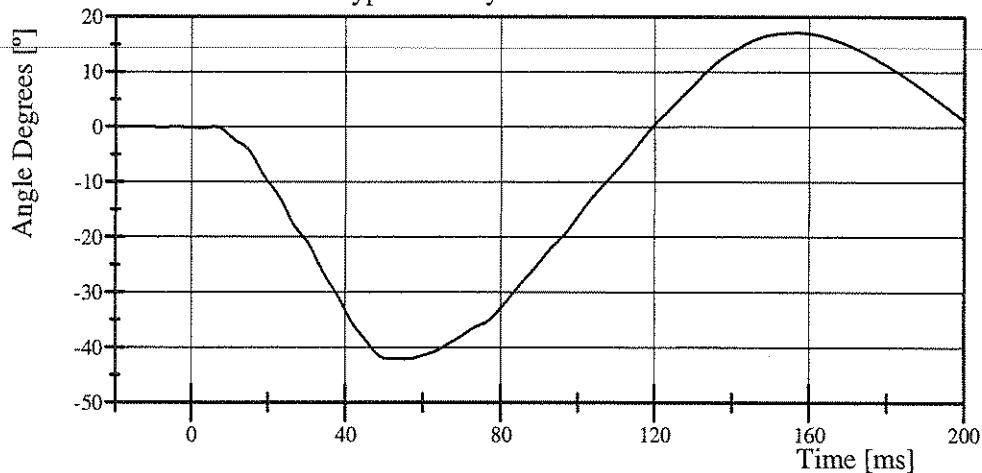


Filter Class: CFC_60

Max: 14.3 ° at 152.5 ms

Min: -27.7 ° at 58.6 ms

Head Rotation at Occypital Condyles

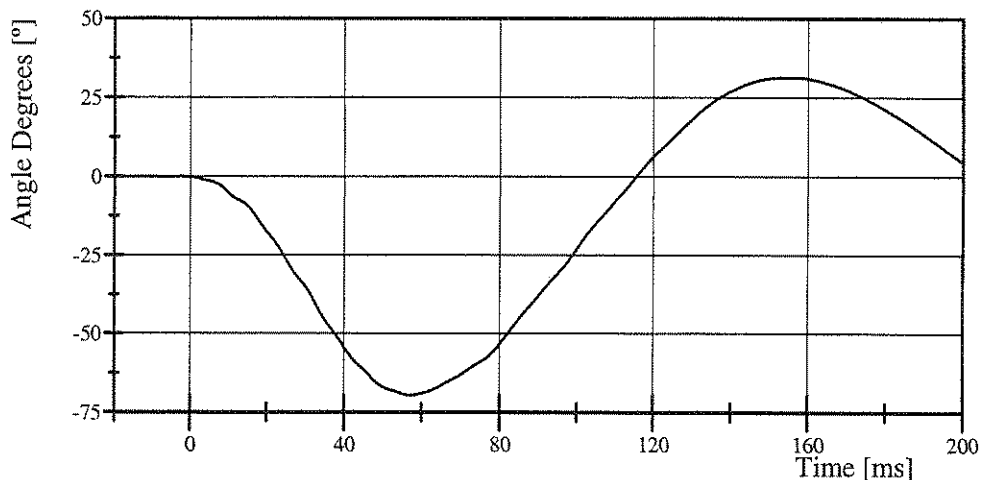


Filter Class: CFC_60

Max: 17.2 ° at 156.7 ms

Min: -42.1 ° at 56.0 ms

Total Head D-Plane Rotation



Filter Class: CFC_60

Max: 31.4 ° at 155.5 ms

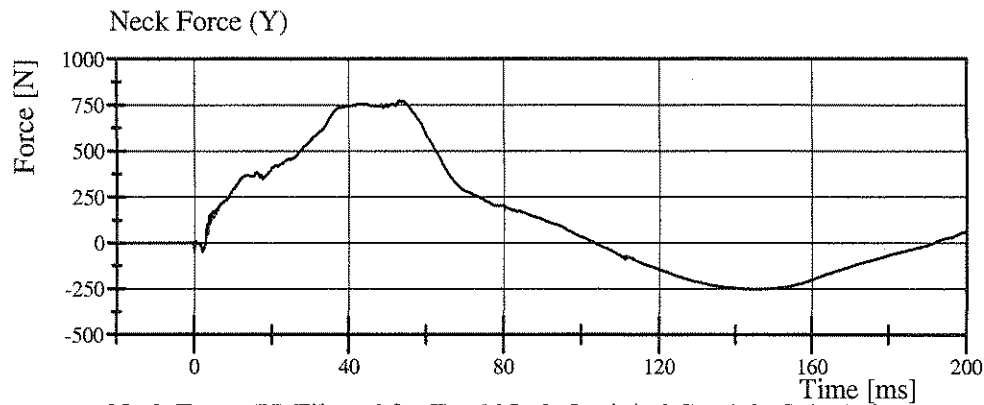
Min: -69.6 ° at 57.2 ms

Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 20-1

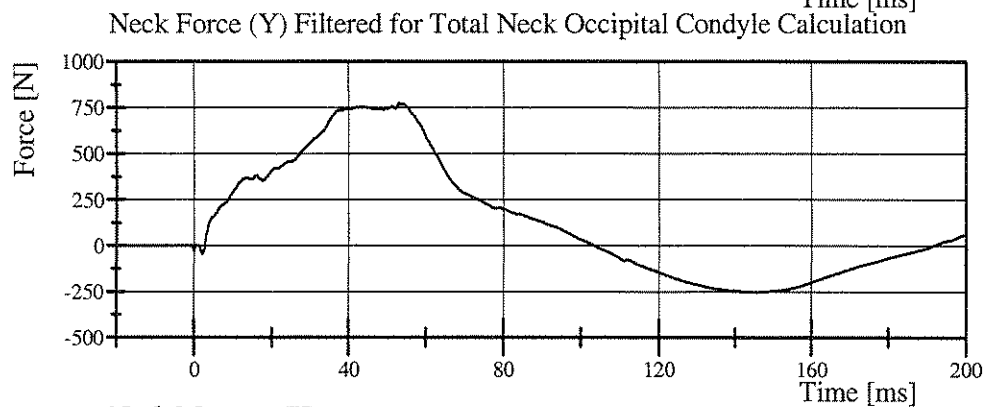
Test Date: 12/5/2006



Filter Class: CFC_1000

Max: 774.5 N at 53.1 ms

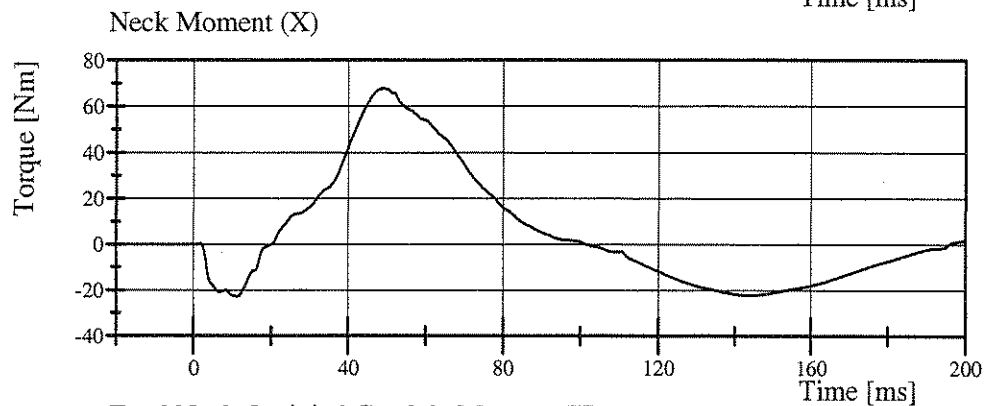
Min: -252.3 N at 144.8 ms



Filter Class: CFC_600

Max: 774.0 N at 53.0 ms

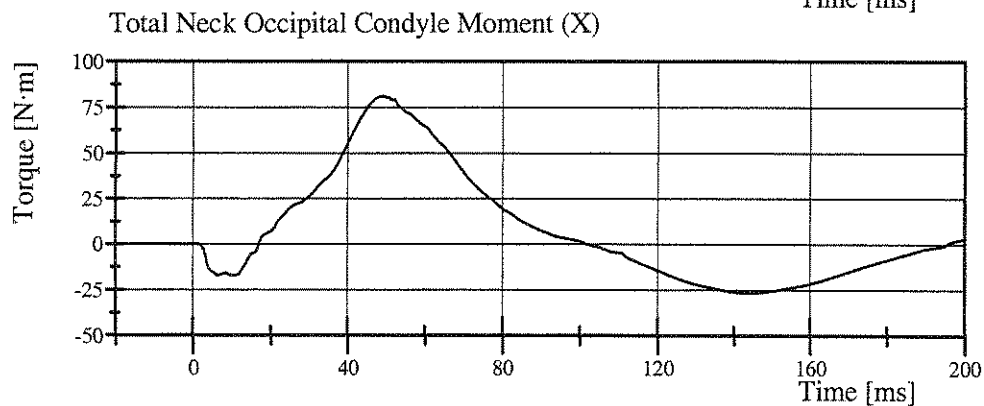
Min: -252.1 N at 144.9 ms



Filter Class: CFC_600

Max: 68.0 Nm at 49.0 ms

Min: -22.8 Nm at 11.3 ms



Filter Class: CFC_600

Max: 81.2 N·m at 49.1 ms

Min: -26.6 N·m at 144.2 ms

Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 059 Certification No. 20-3

Test Date: 12/6/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	20.9 °C	Yes
Relative Humidity	10 - 70 %	28 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.288 m/s	Yes
Upper Rib Lateral Acceleration	37 - 46 g	44.0 g	Yes
Lower Rib Lateral Acceleration	37 - 46 g	41.9 g	Yes
Lower Spine Lateral Acceleration	15 - 22 g	19.9 g	Yes

Test meets specifications.

Comments:

Technician

Charles Berl

Approved

Ron Stoner

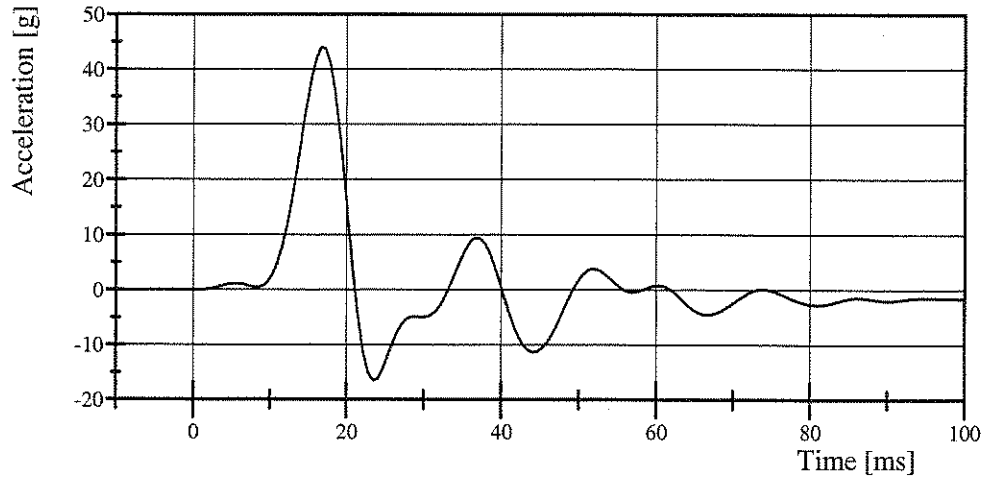
Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 059 Certification No. 20-3

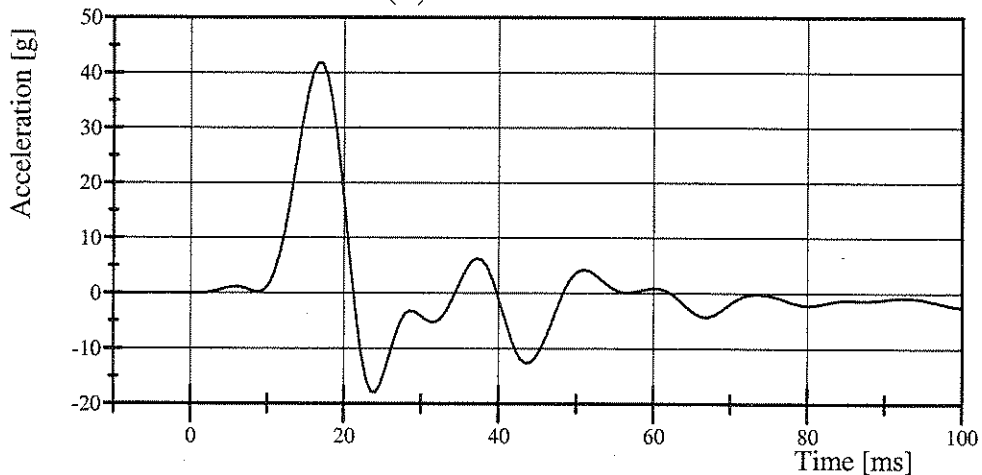
Test Date: 12/6/2006

Upper Rib Acceleration (Y)



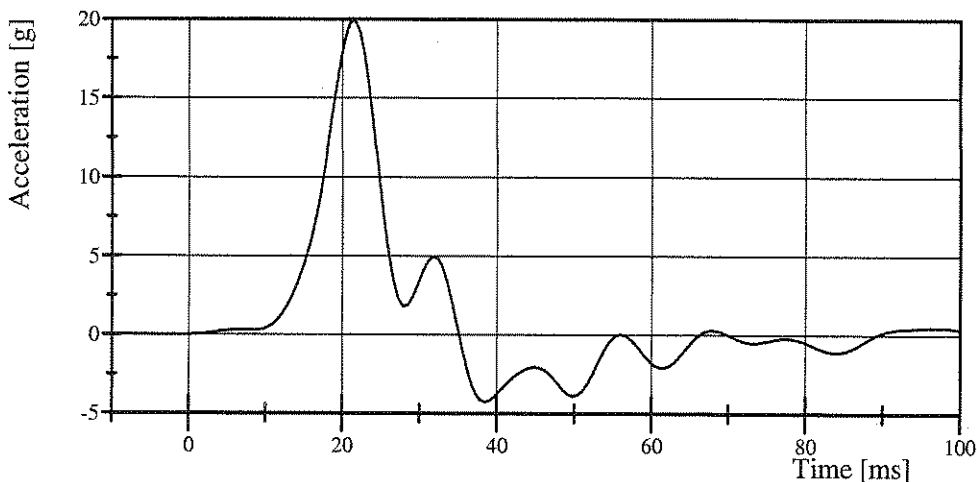
Filter Class: FIR_100
Max: 44.0 g at 16.6 ms
Min: -16.5 g at 23.5 ms

Lower Rib Acceleration (Y)



Filter Class: FIR_100
Max: 41.9 g at 16.6 ms
Min: -18.0 g at 24.1 ms

Lower Spine Acceleration (Y)



Filter Class: FIR_100
Max: 19.9 g at 21.6 ms
Min: -4.3 g at 38.5 ms

Transportation Research Center Inc.

3.05 m/s Thoracic Shock Absorber Compression
SID-HIII Serial No. 059 Certification No. 17-1
Test Date: 10/20/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	37 %	Yes
Maximum Force at Test Velocity	849 - 1,137 N	929.1 N	Yes
Maximum Displacement at Test Velocity	30.19 - 35.17 mm	30.962 mm	Yes

Test meets specifications.

Comments:

Actual Impactor Velocity (m/s): 3.064

Damper Setting: 5.5

Technician

Meghan Beusle

Approved

Don Storer



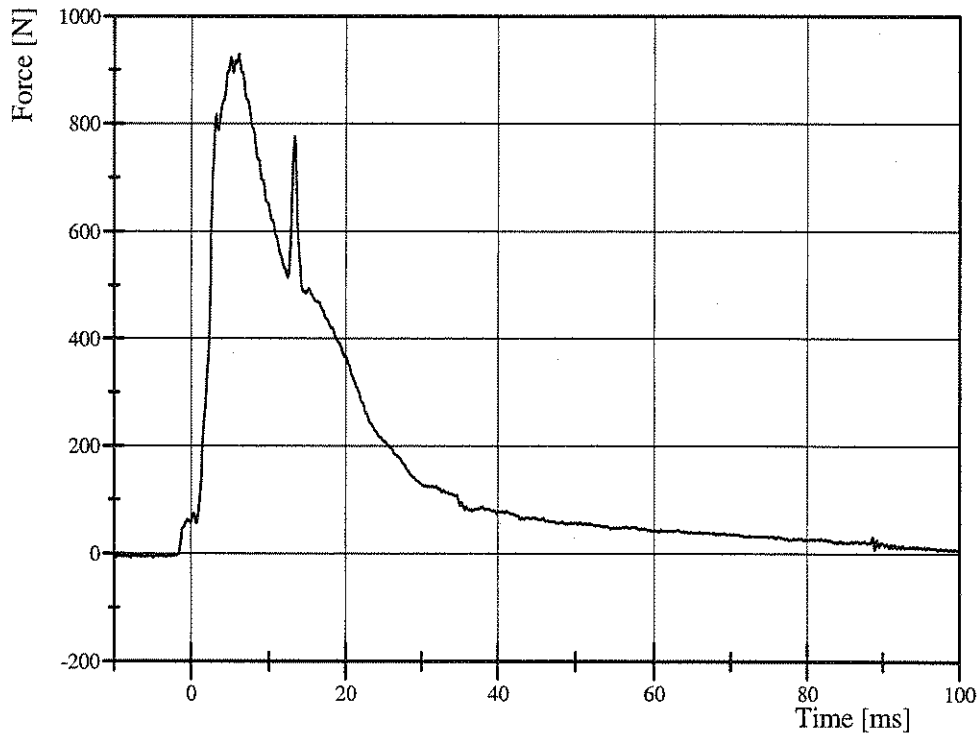
Transportation Research Center Inc.

3.05 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 059 Certification No. 17-1

Test Date: 10/20/2006

Shock Absorber Resistive Force

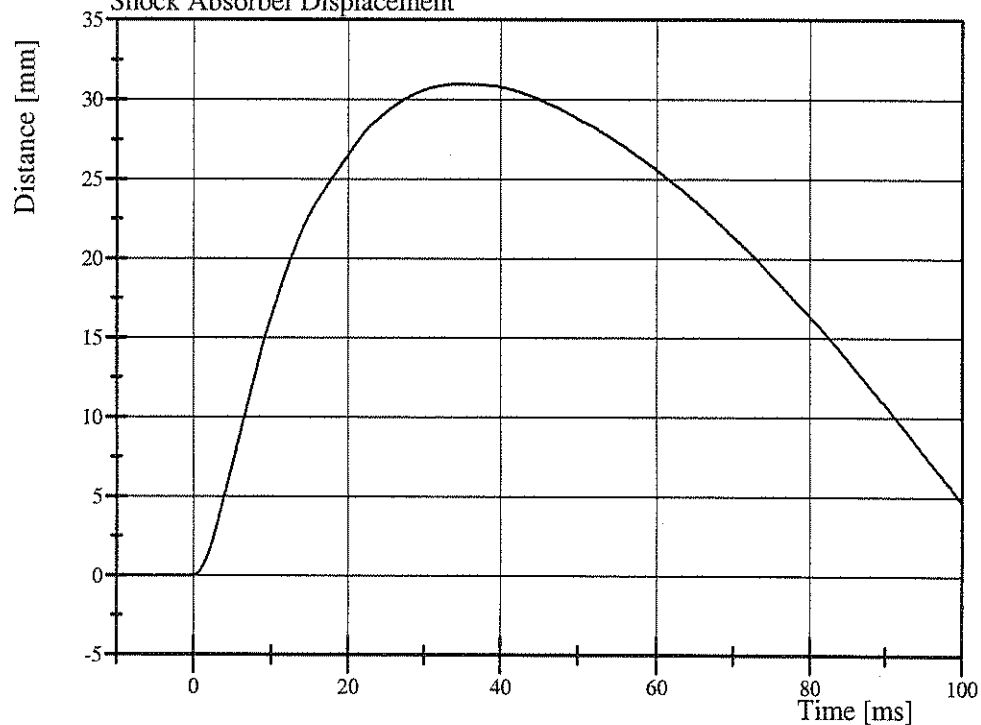


Filter Class: CFC_1000

Max: 929.1 N at 6.1 ms

Min: -8.2 N at -7.8 ms

Shock Absorber Displacement



Filter Class: CFC_1000

Max: 31.0 mm at 34.9 ms

Min: -0.0 mm at -9.7 ms

Transportation Research Center Inc.

4.27 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 059 Certification No. 17-1

Test Date: 10/20/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.0 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Maximum Force at Test Velocity	1,744 - 2,108 N	1,859.9 N	Yes
Maximum Displacement at Test Velocity	31.69 - 37.24 mm	33.640 mm	Yes

Test meets specifications.

Comments:

Actual Impactor Velocity (m/s): 4.278

Damper Setting: 5.5

Technician

Jaqueline Burske

Approved

Ron Stone

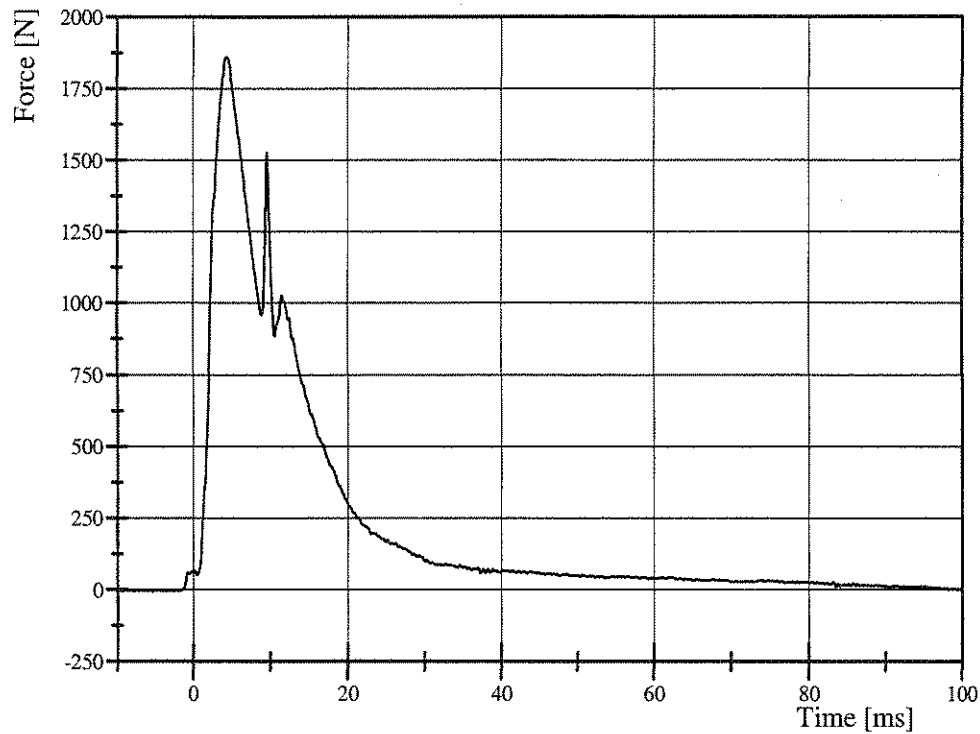
Transportation Research Center Inc.

4.27 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 059 Certification No. 17-1

Test Date: 10/20/2006

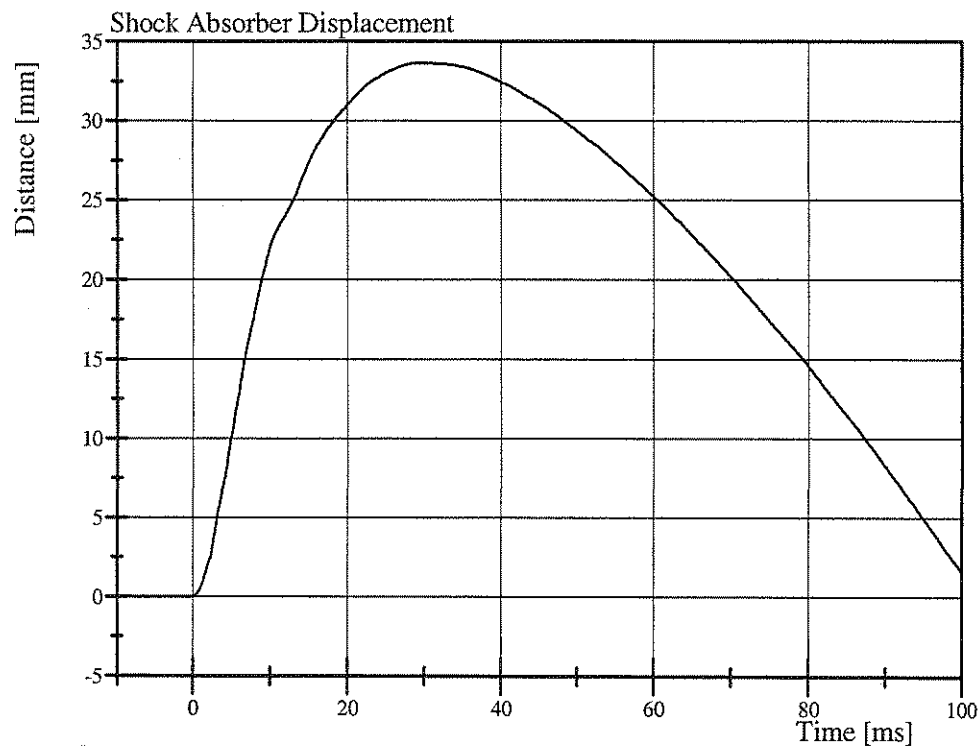
Shock Absorber Resistive Force



Filter Class: CFC_1000

Max: 1,859.9 N at 4.2 ms

Min: -6.4 N at -5.3 ms



Filter Class: CFC_1000

Max: 33.6 mm at 29.5 ms

Min: -0.0 mm at -8.6 ms

Transportation Research Center Inc.

6.10 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 059 Certification No. 17-1

Test Date: 10/20/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	36 %	Yes
Maximum Force at Test Velocity	3,732 - 4,424 N	4,229.0 N	Yes
Maximum Displacement at Test Velocity	33.36 - 39.56 mm	37.024 mm	Yes

Test meets specifications.

Comments:

Actual Impactor Velocity (m/s): 6.086

Damper Setting: 5.5

Technician

Joseph Burster

Approved

Ron Stomus

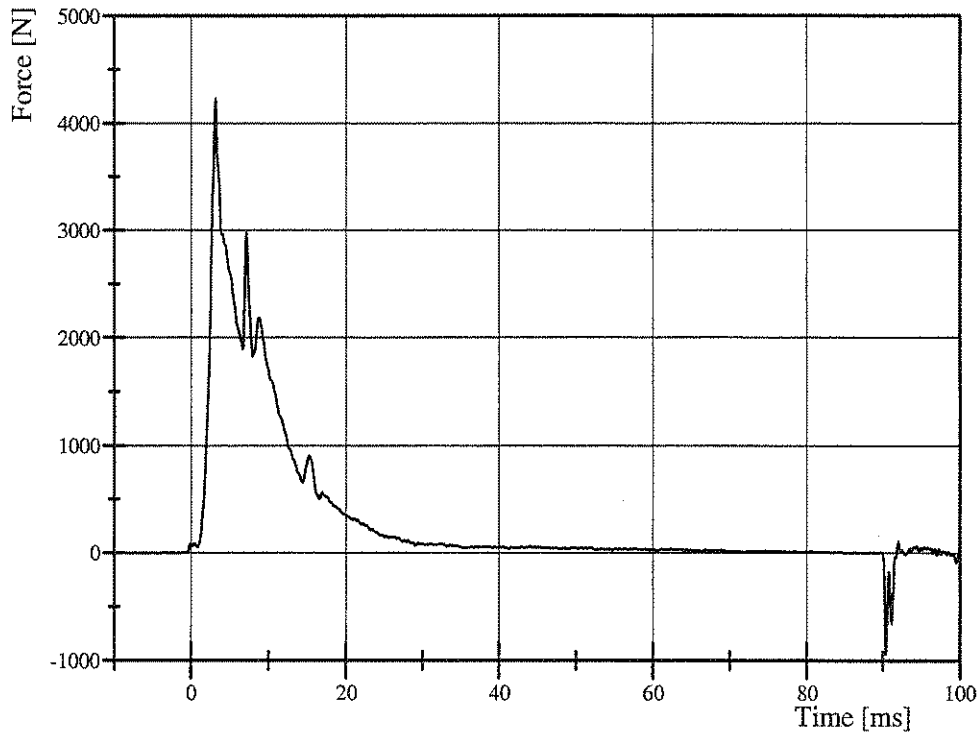
Transportation Research Center Inc.

6.10 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 059 Certification No. 17-1

Test Date: 10/20/2006

Shock Absorber Resistive Force



Filter Class: CFC_1000

Max: 4,229.0 N at 3.1 ms

Min: -939.9 N at 90.4 ms

Shock Absorber Displacement



Filter Class: CFC_1000

Max: 37.0 mm at 28.1 ms

Min: -0.2 mm at 91.2 ms

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 059 Certification No. 20-1

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	20.9 °C	Yes
Relative Humidity	10 - 70 %	27 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.293 m/s	Yes
Pelvis Lateral Acceleration Duration above 20g	3 - 7 ms	6.6 ms	Yes
Pelvis Lateral Acceleration	40 - 60 g	43.9 g	Yes
Is Acceleration Curve Unimodal Above 20g?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Charles Bell

Approved

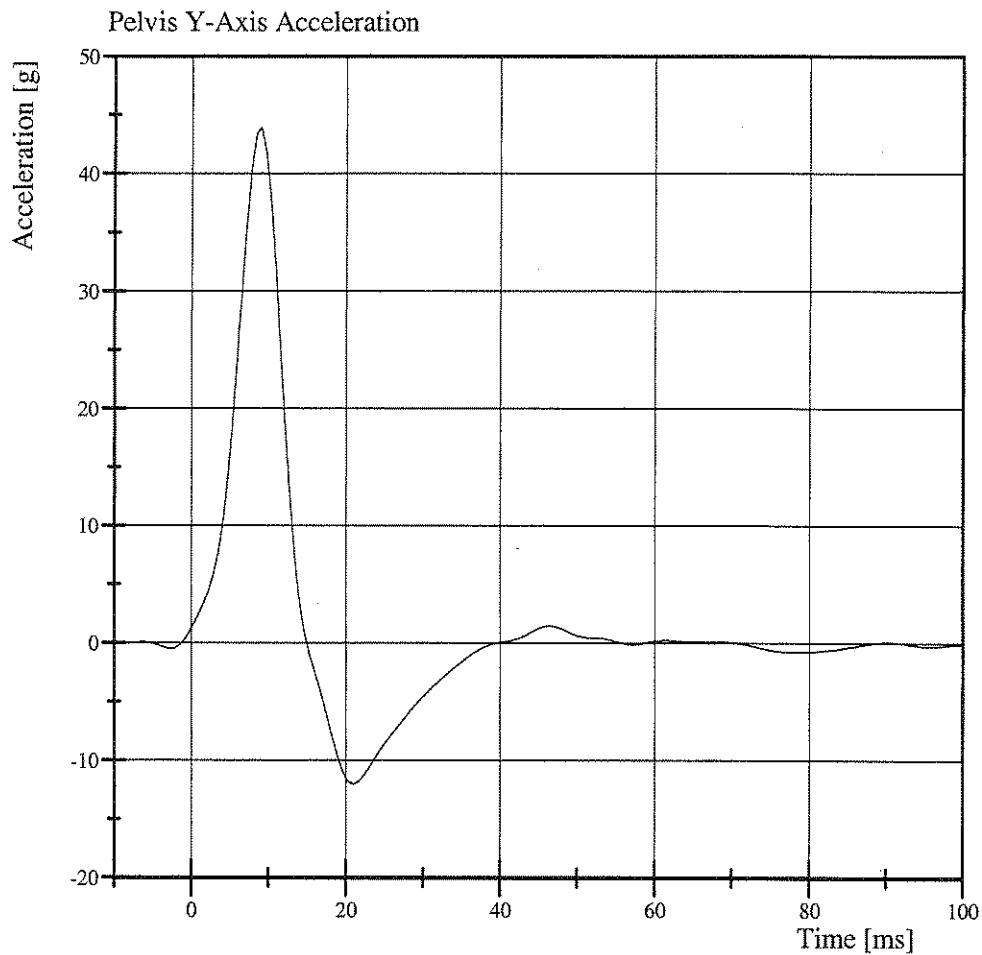
Ron Stoner

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 059 Certification No. 20-1

Test Date: 12/5/2006



Filter Class: FIR_100
Max: 43.9 g at 9.0 ms
Min: -12.0 g at 20.9 ms

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 059 Certification No. 20-6

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.0 °C	Yes
Relative Humidity	10 - 70 %	26 %	Yes
Probe Force within Corridor	Yes	Yes	Yes
Probe Velocity	6.35 - 8.89 mm/s	8.066 mm/s	Yes

Test meets specifications.

Comments:

Technician

Charles Bell

Approved

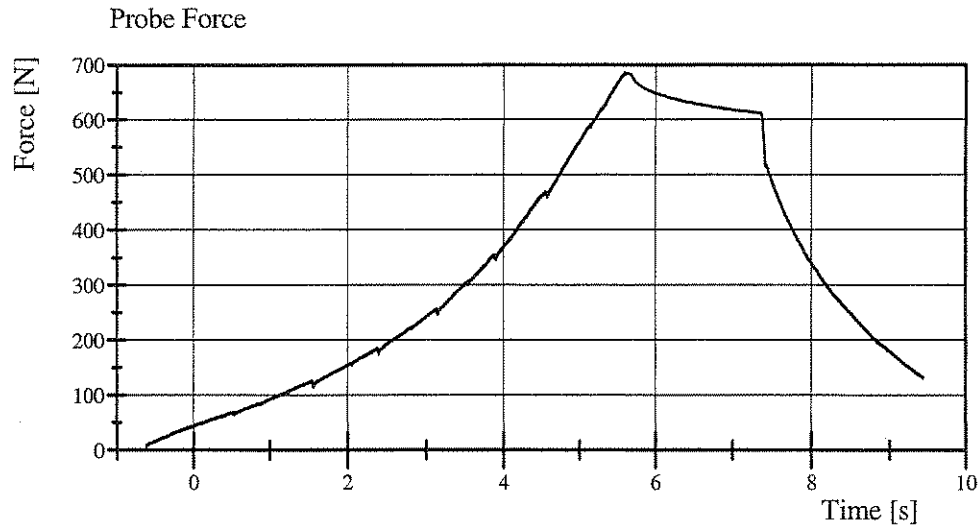
Ron Stoner

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 059 Certification No. 20-6

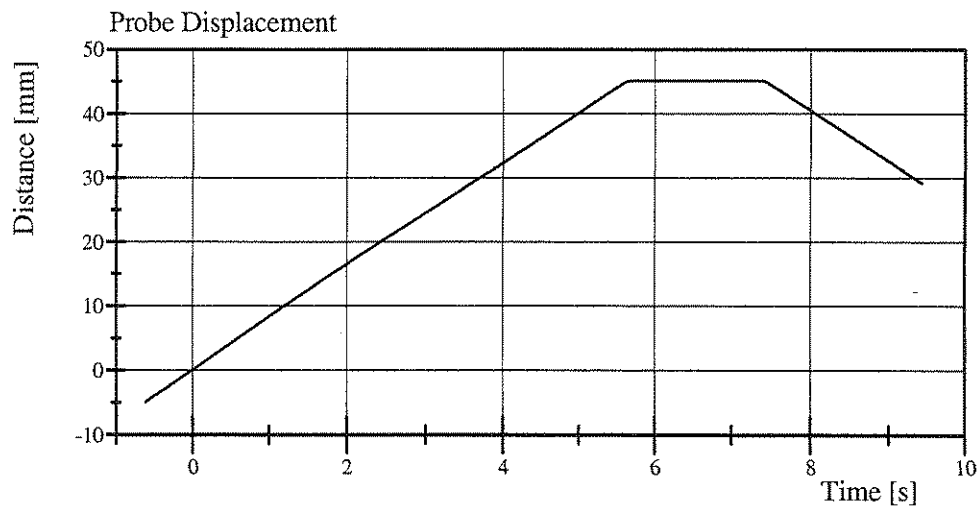
Test Date: 12/5/2006



Filter Class: CFC_600

Max: 685.3 N at 5.6 s

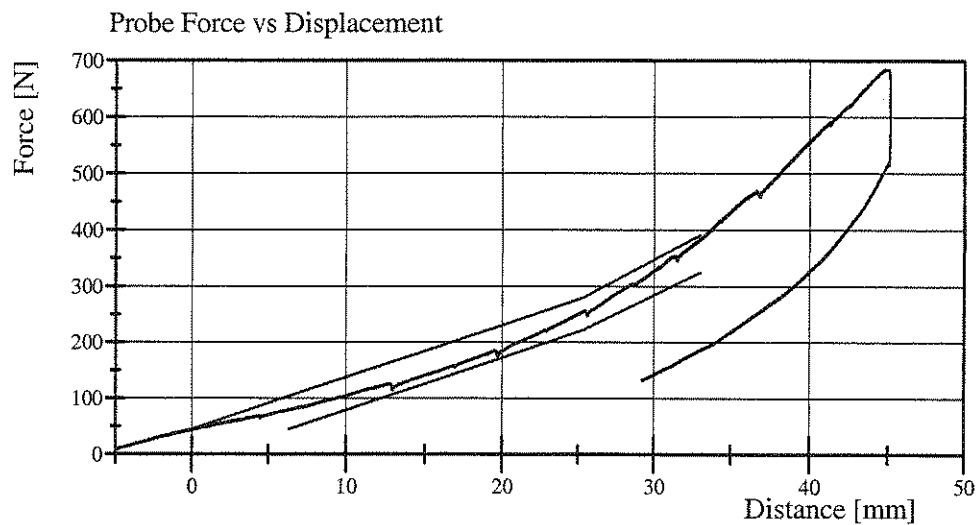
Min: 6.6 N at -0.6 s



Filter Class: CFC_180

Max: 45.2 mm at 7.3 s

Min: -4.9 mm at -0.6 s



Filter Class: CFC_600

Max: 685.3 N at 44.8 mm

Min: 6.6 N at -4.9 mm

TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 05-Dec-06

TRC, INC.

TEST NO: LUFL-01

572B SN 059 TORSO FLEX CAL 20

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 – 25.6° C	21.3 C
RELATIVE HUMIDITY	10 – 70 %	26 %
FORCE AT 0 DEG. FLEXION	-27 – 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 – 151 N	128 N
FORCE AT 30 DEG OF FLEXION	151 – 205 N	182 N
FORCE AT 40 DEG OF FLEXION	205 – 258 N	257 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	6.0 °

TEST MEETS SPECIFICATIONS

TECHNICIAN

Charles Bell

Calibration Test Results

Pre-Test

SID HIII: 055

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was tested on October 20, 2006 for a previous calibration series.

Transportation Research Center Inc.
SID/HIII Dummy
External Dimensions
Serial No. 055 Calibration No. 25

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	903 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	505 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	521 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	499 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	359 mm	Yes
Top Rib Width From CVL	RW-1	165.1 - 180.3 mm	167.5 mm	Yes
Bottom Rib Width From CVL	RW-2	165.1 - 180.3 mm	168 mm	Yes
Difference Between Top & Bottom Rib Width from CVL		<= 2.5 mm	0.5 mm	Yes

Technician

Laquisha Bush

Approved

Ron Stoner



Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/4/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	24 %	Yes
Peak Head Resultant Acceleration	120 - 150 g	133.3 g	Yes
Peak Head Longitudinal Acceleration	(-15) - 15 g	-5.8 g	Yes
Is Head Resultant Acceleration Curve Unimodal Within 15% of Peak?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Rout Baran

Approved

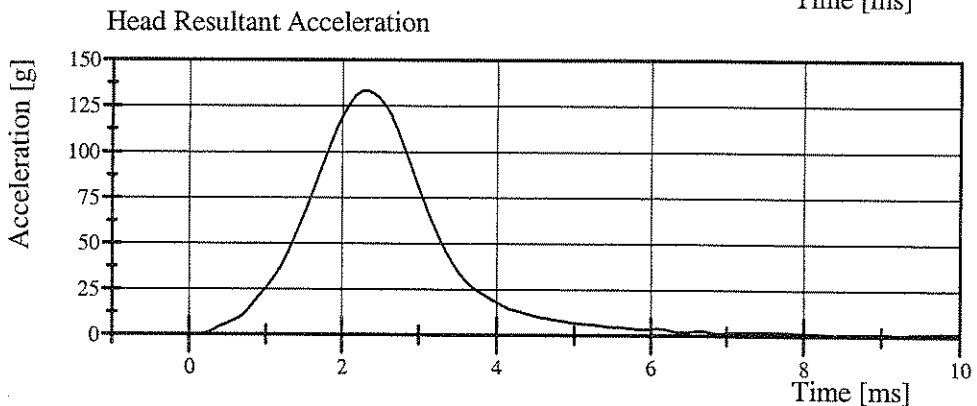
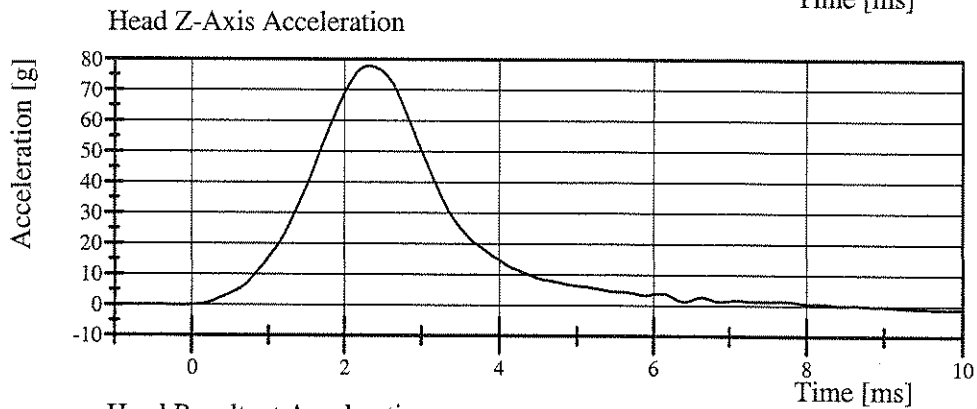
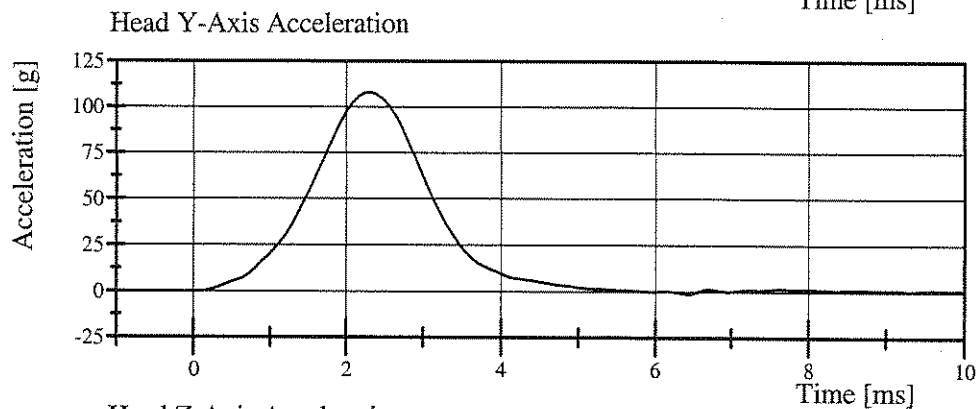
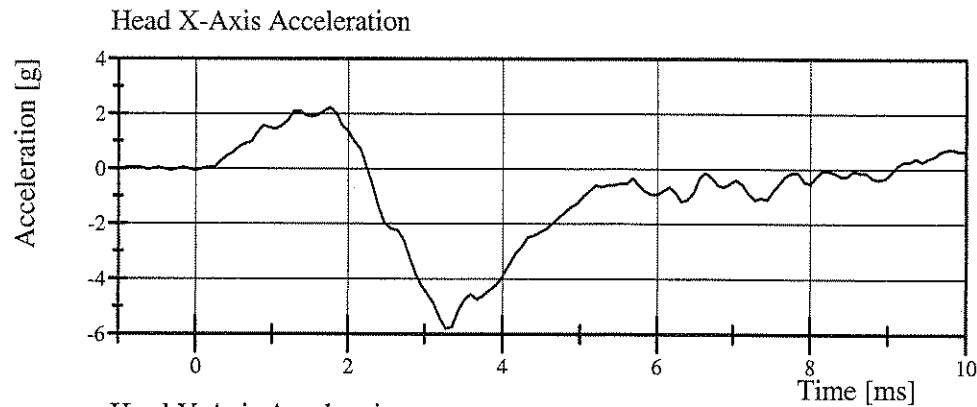
Ron Stoner

Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/4/2006



Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	25 %	Yes
Pendulum Velocity	(-6.89) - (-7.13) m/s	-7.087 m/s	Yes
Pendulum Integrated Velocity Change at 10 ms	1.96 - 2.55 m/s	2.371 m/s	Yes
Pendulum Integrated Velocity Change at 20 ms	4.12 - 5.10 m/s	4.759 m/s	Yes
Pendulum Integrated Velocity Change at 30 ms	5.73 - 7.01 m/s	6.688 m/s	Yes
Pendulum Integrated Velocity Change at 40 to 70 ms	6.27 - 7.64 m/s	7.188 m/s	Yes
Total Head D-Plane Rotation	(-66) - (-82) °	-70.6 °	Yes
Total Head D-Plane Rotation Time to 0° after Peak Rotation	58 - 67 ms	59.4 ms	Yes
Total Neck Occipital Condyle Moment	73 - 88 N·m	83.4 N·m	Yes
Total Neck Occipital Condyle Moment Time to 0 N·m after Peak Moment	49 - 64 ms	53.7 ms	Yes
Time from Peak Moment to Peak Rotation	2 - 16 ms	9.4 ms	Yes

Test meets specifications.

Comments:

Technician



Approved

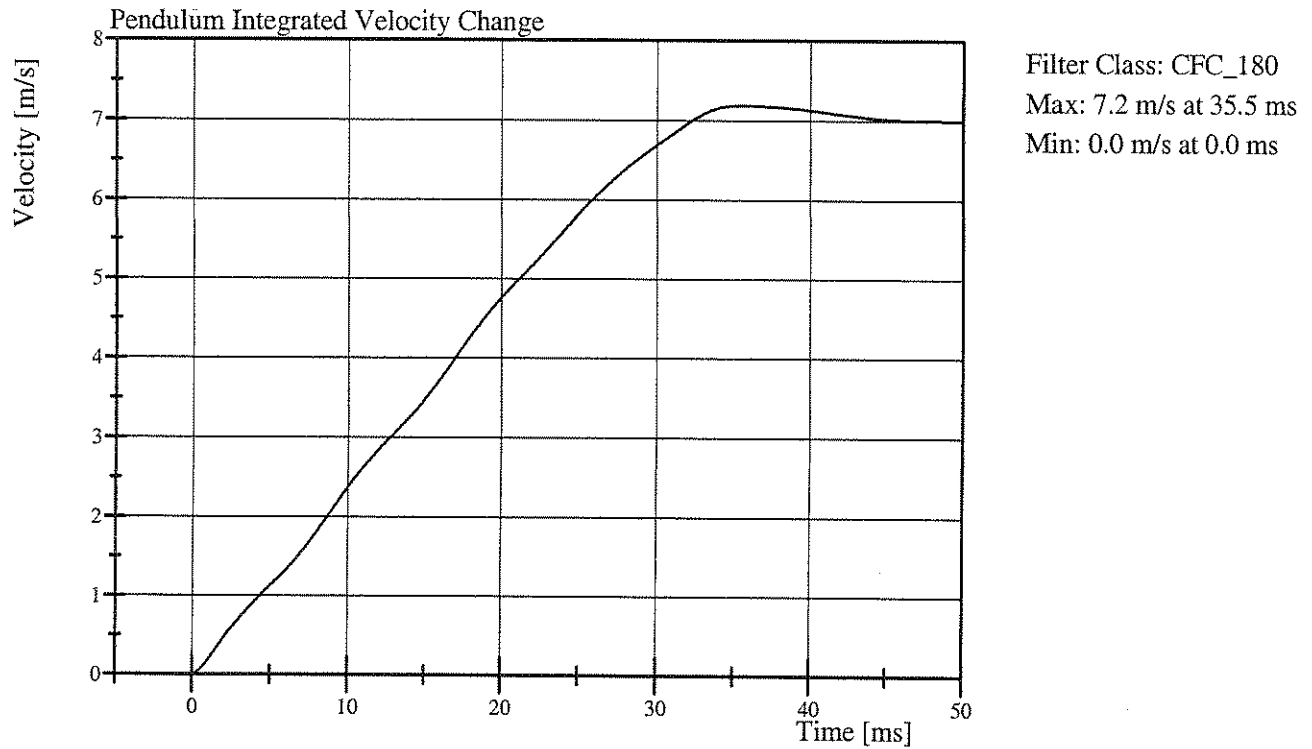
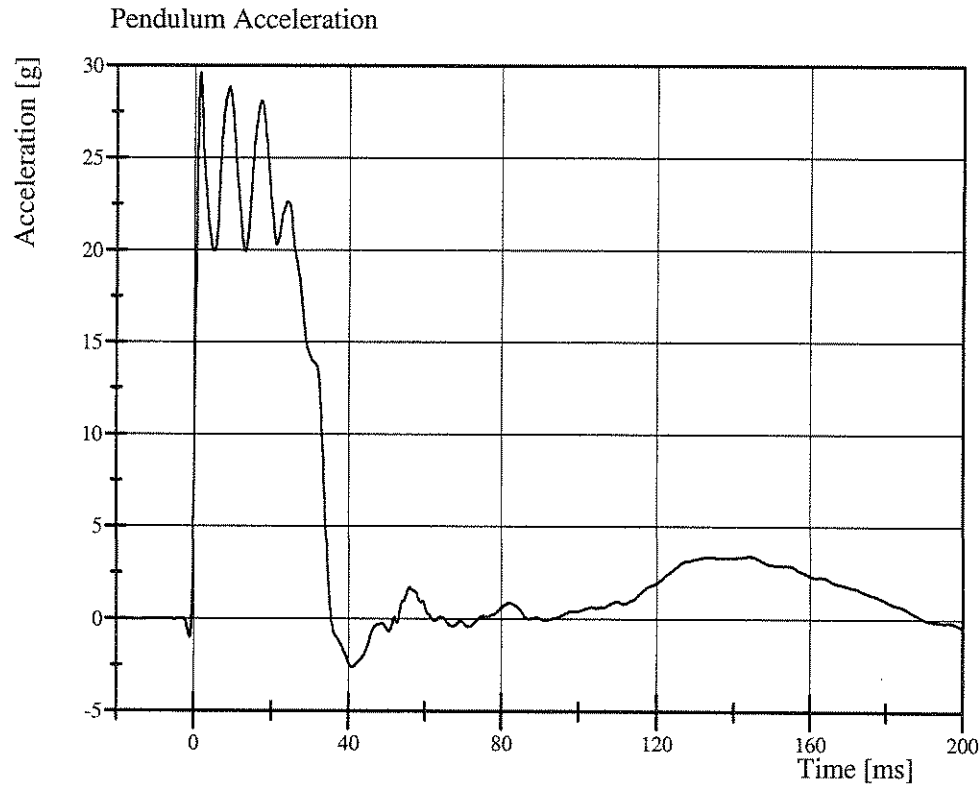


Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/5/2006



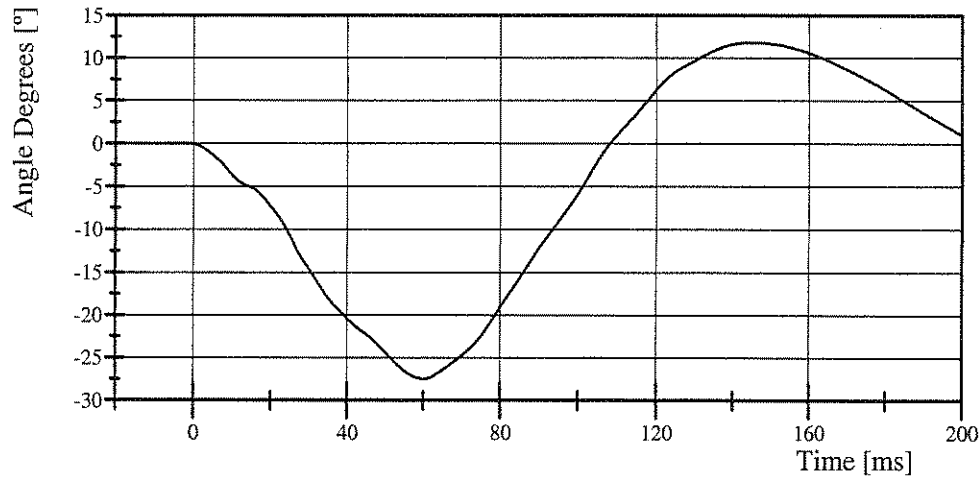
Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/5/2006

Pot Rotation at the Base of Neck

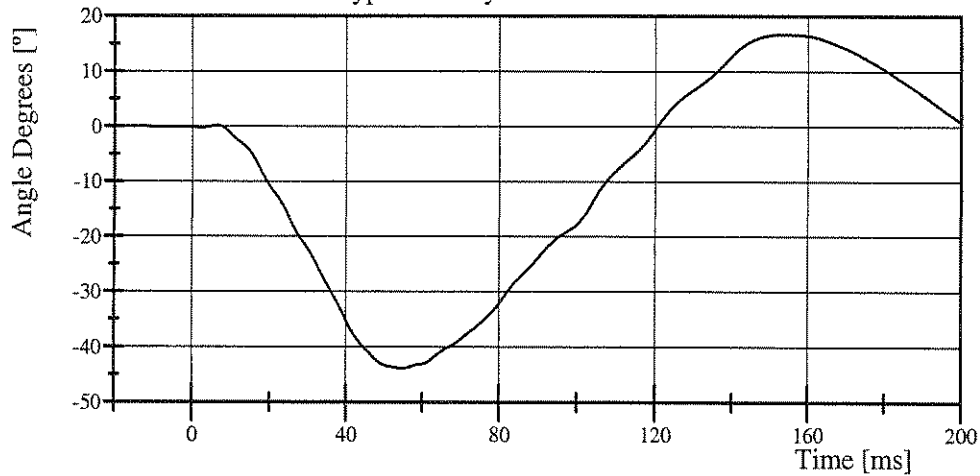


Filter Class: CFC_60

Max: 11.8 ° at 144.8 ms

Min: -27.5 ° at 60.2 ms

Head Rotation at Occypital Condyles

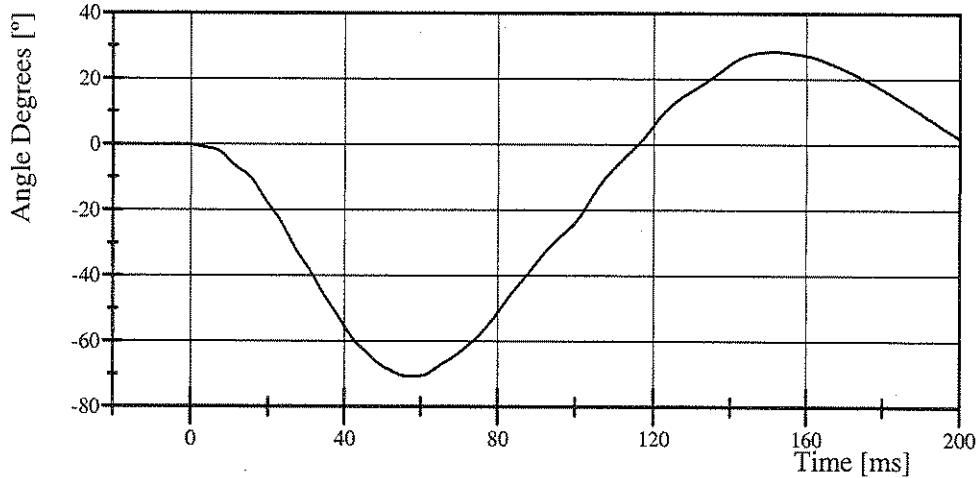


Filter Class: CFC_60

Max: 16.8 ° at 153.4 ms

Min: -43.9 ° at 55.0 ms

Total Head D-Plane Rotation



Filter Class: CFC_60

Max: 28.3 ° at 151.4 ms

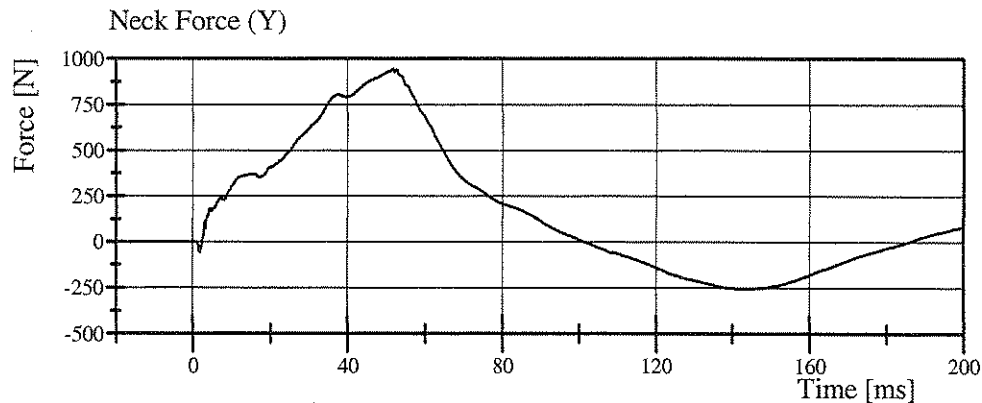
Min: -70.6 ° at 56.6 ms

Transportation Research Center Inc.

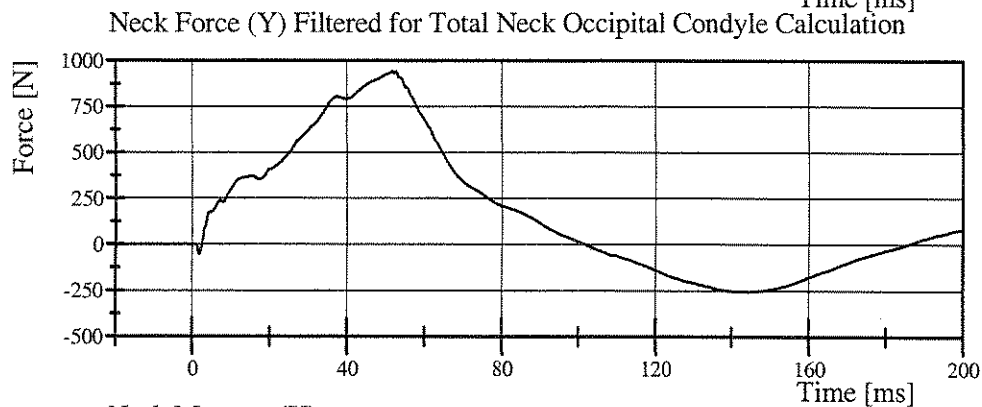
Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 25-1

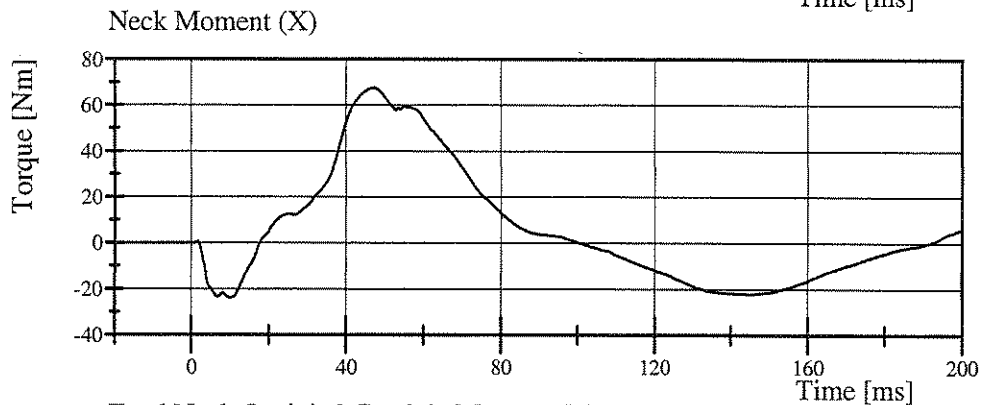
Test Date: 12/5/2006



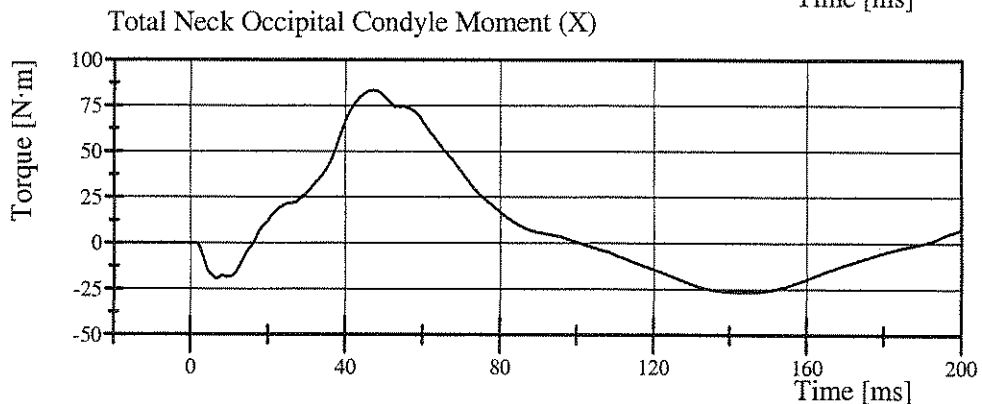
Filter Class: CFC_1000
Max: 945.1 N at 51.7 ms
Min: -255.7 N at 143.6 ms



Filter Class: CFC_600
Max: 942.5 N at 51.7 ms
Min: -255.4 N at 142.6 ms



Filter Class: CFC_600
Max: 67.5 Nm at 47.1 ms
Min: -23.8 Nm at 10.1 ms



Filter Class: CFC_600
Max: 83.4 N·m at 47.2 ms
Min: -26.6 N·m at 144.5 ms

Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.0 °C	Yes
Relative Humidity	10 - 70 %	26 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.287 m/s	Yes
Upper Rib Lateral Acceleration	37 - 46 g	44.5 g	Yes
Lower Rib Lateral Acceleration	37 - 46 g	43.5 g	Yes
Lower Spine Lateral Acceleration	15 - 22 g	20.4 g	Yes

Test meets specifications.

Comments:

Technician

Rand Baran

Approved

Ron Stoner

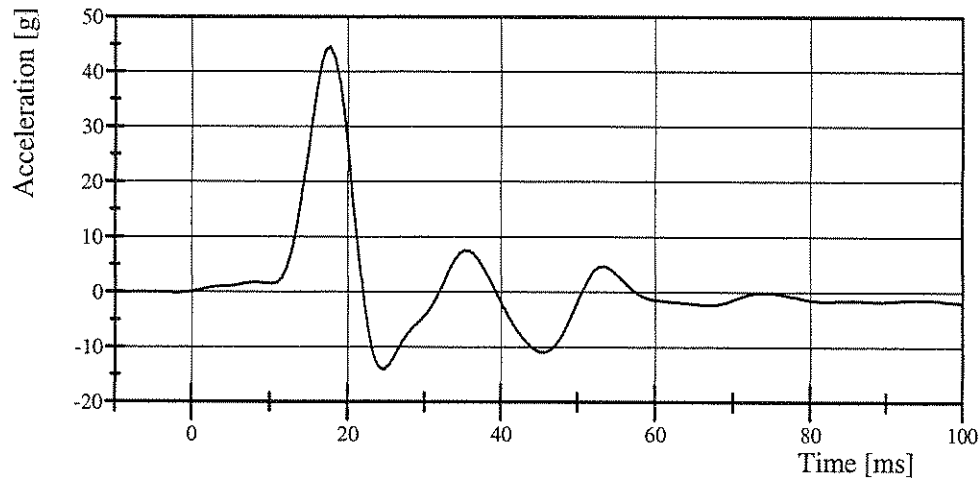
Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 055 Certification No. 25-1

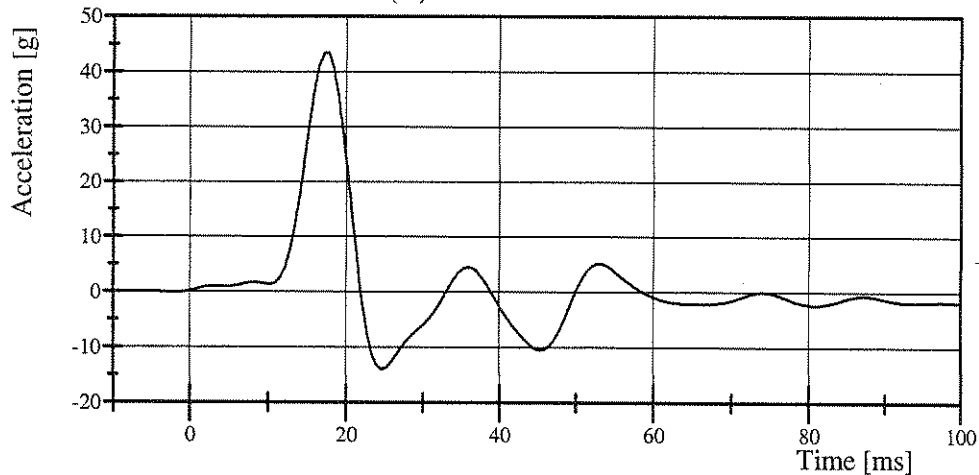
Test Date: 12/5/2006

Upper Rib Acceleration (Y)



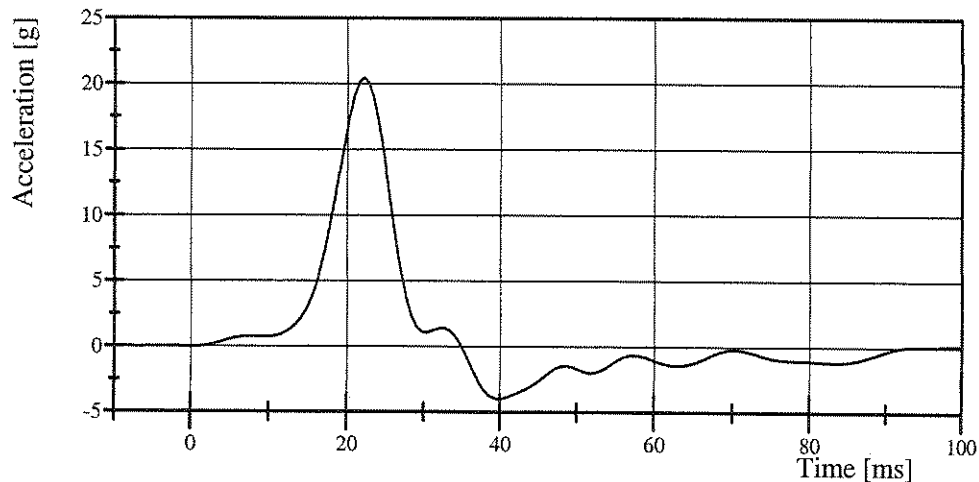
Filter Class: FIR_100
Max: 44.5 g at 17.8 ms
Min: -14.1 g at 24.6 ms

Lower Rib Acceleration (Y)



Filter Class: FIR_100
Max: 43.5 g at 17.2 ms
Min: -14.0 g at 24.6 ms

Lower Spine Acceleration (Y)



Filter Class: FIR_100
Max: 20.4 g at 22.2 ms
Min: -4.0 g at 39.7 ms

Transportation Research Center Inc.

3.05 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 055 Certification No. 22-1

Test Date: 10/20/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.5 °C	Yes
Relative Humidity	10 - 70 %	35 %	Yes
Maximum Force at Test Velocity	849 - 1,137 N	927.2 N	Yes
Maximum Displacement at Test Velocity	30.19 - 35.17 mm	32.106 mm	Yes

Test meets specifications.

Comments:

Actual Impactor Velocity (m/s): 3.064

Damper Setting: 9.0

Technician

Jaqueline Bousle

Approved

Ron Storer



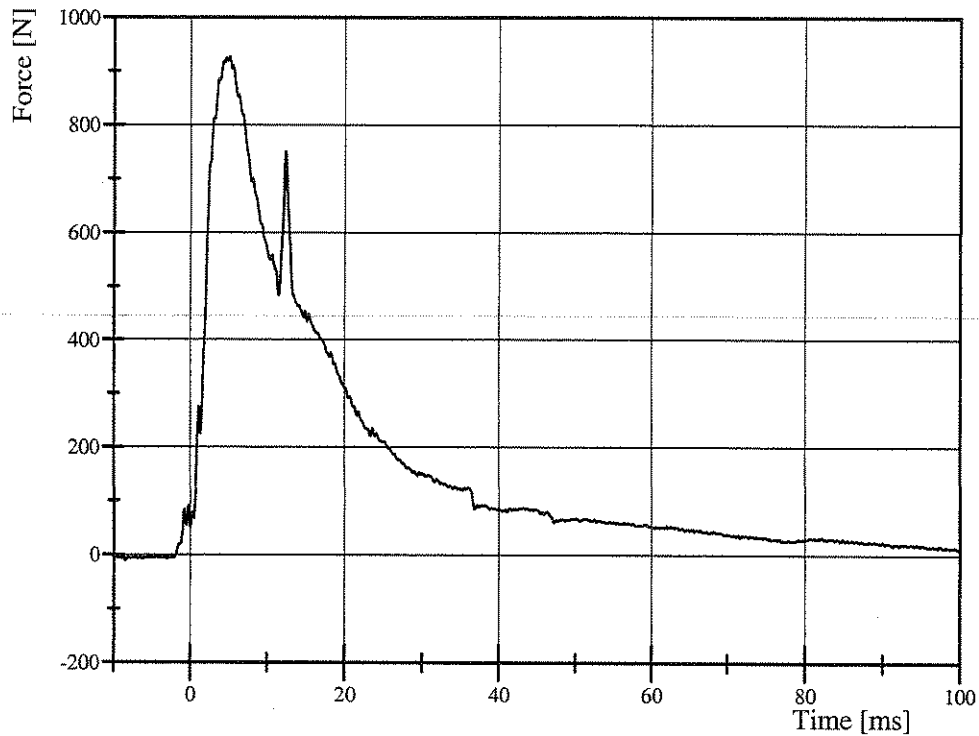
Transportation Research Center Inc.

3.05 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 055 Certification No. 22-1

Test Date: 10/20/2006

Shock Absorber Resistive Force

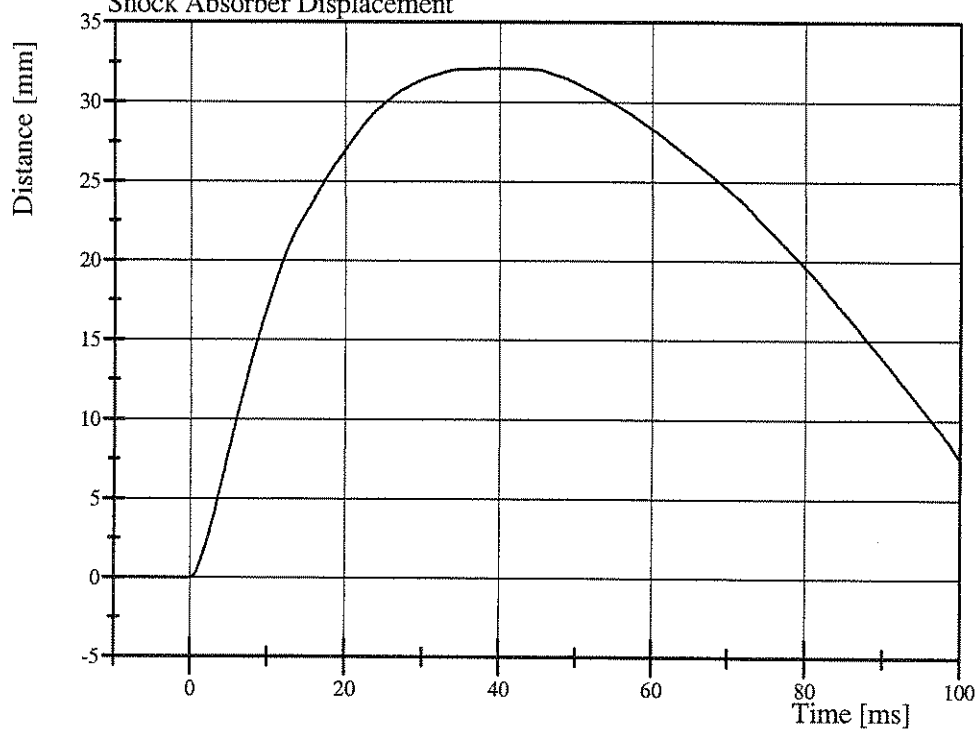


Filter Class: CFC_1000

Max: 927.2 N at 5.1 ms

Min: -10.9 N at -8.4 ms

Shock Absorber Displacement



Filter Class: CFC_1000

Max: 32.1 mm at 39.8 ms

Min: -0.0 mm at -4.9 ms

Transportation Research Center Inc.

4.27 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 055 Certification No. 22-1

Test Date: 10/20/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	20.9 °C	Yes
Relative Humidity	10 - 70 %	37 %	Yes
Maximum Force at Test Velocity	1,744 - 2,108 N	1,858.3 N	Yes
Maximum Displacement at Test Velocity	31.69 - 37.24 mm	34.677 mm	Yes

Test meets specifications.

Comments:

Actual Impactor Velocity (m/s): 4.278

Damper Setting: 9.0

Technician

Gregory Brewster

Approved

Jon Storer

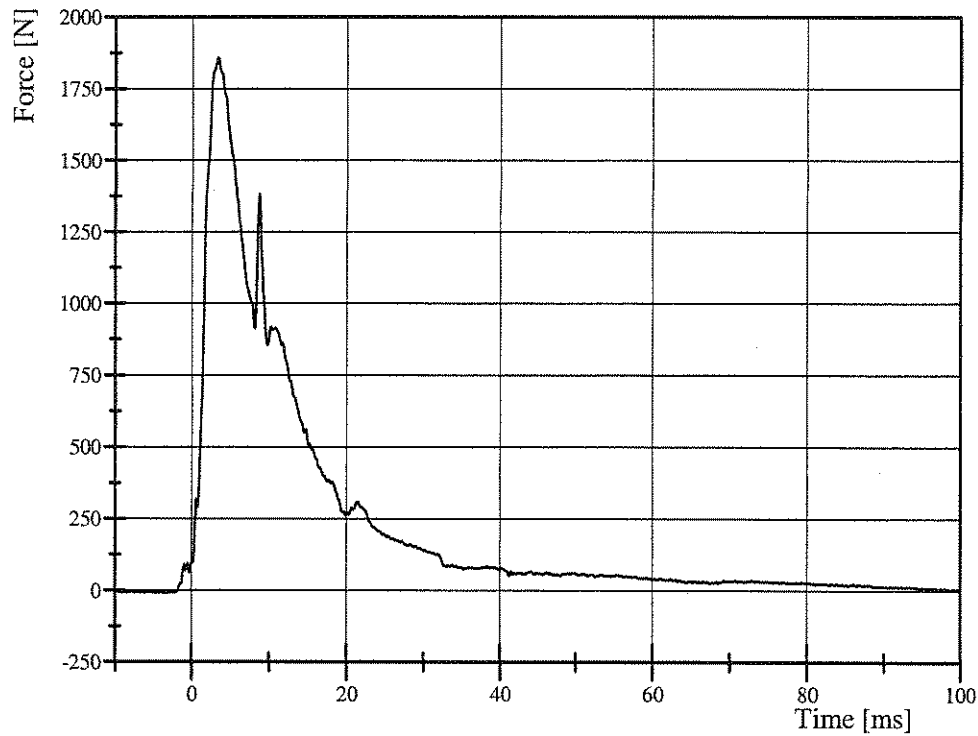
Transportation Research Center Inc.

4.27 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 055 Certification No. 22-1

Test Date: 10/20/2006

Shock Absorber Resistive Force

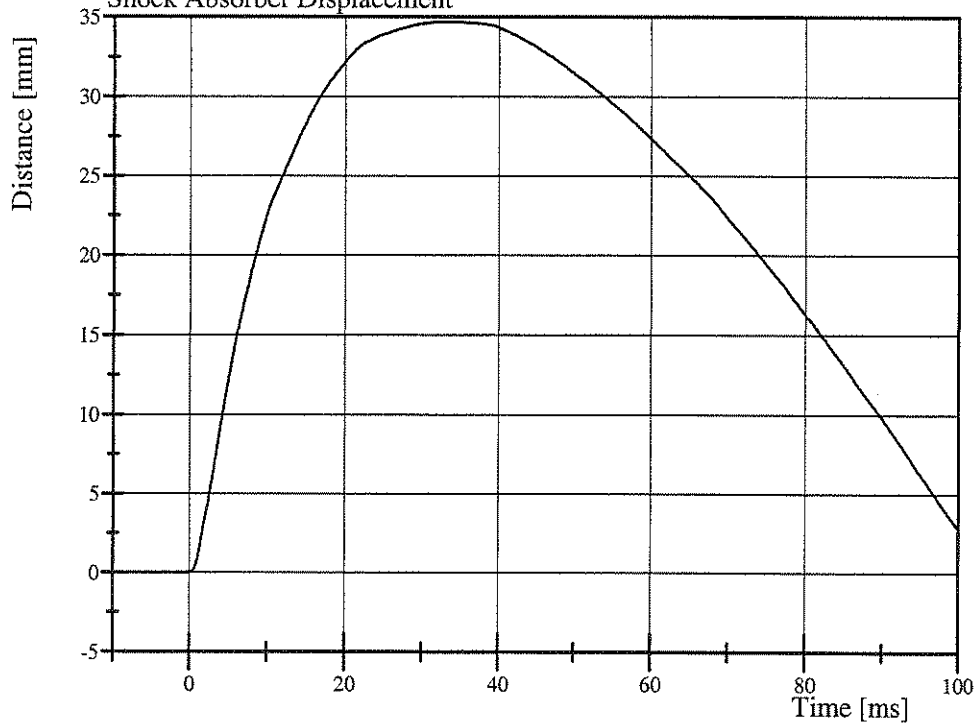


Filter Class: CFC_1000

Max: 1,858.3 N at 3.4 ms

Min: -8.9 N at -6.1 ms

Shock Absorber Displacement



Filter Class: CFC_1000

Max: 34.7 mm at 32.6 ms

Min: -0.0 mm at -9.9 ms

Transportation Research Center Inc.

6.10 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 055 Certification No. 22-2

Test Date: 10/20/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.0 °C	Yes
Relative Humidity	10 - 70 %	37 %	Yes
Maximum Force at Test Velocity	3,732 - 4,424 N	4,361.1 N	Yes
Maximum Displacement at Test Velocity	33.36 - 39.56 mm	36.298 mm	Yes

Test meets specifications.

Comments:

Actual Impactor Velocity (m/s): 6.086

Damper Setting: 9.0

Technician

Jaqueline Burski

Approved

Ron Stoner

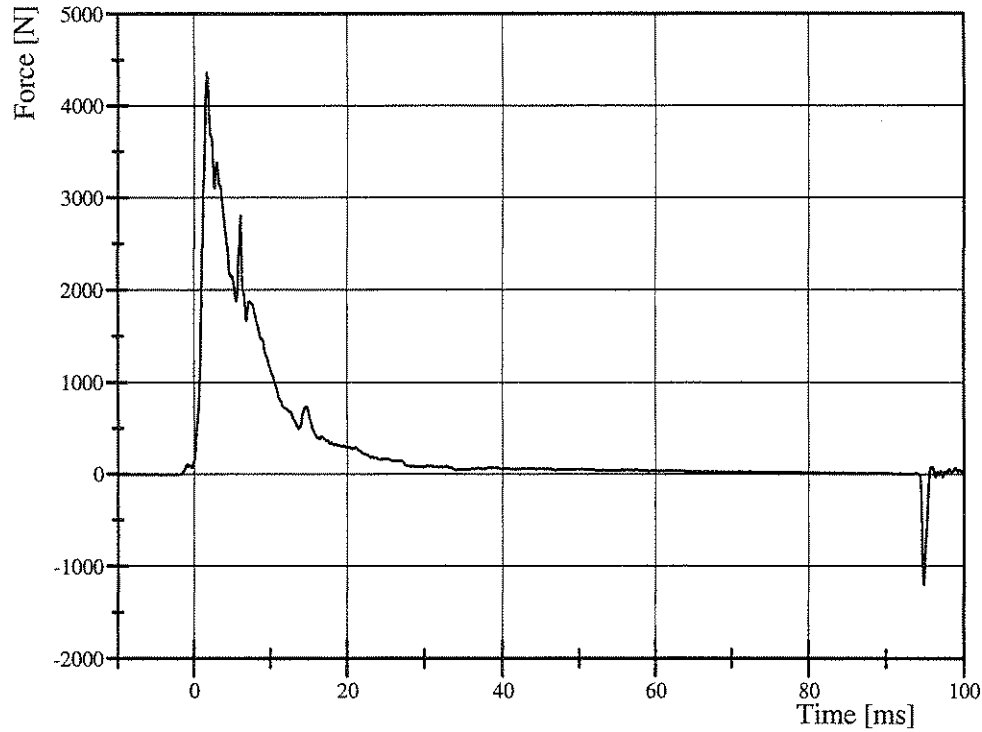
Transportation Research Center Inc.

6.10 m/s Thoracic Shock Absorber Compression

SID-HIII Serial No. 055 Certification No. 22-2

Test Date: 10/20/2006

Shock Absorber Resistive Force

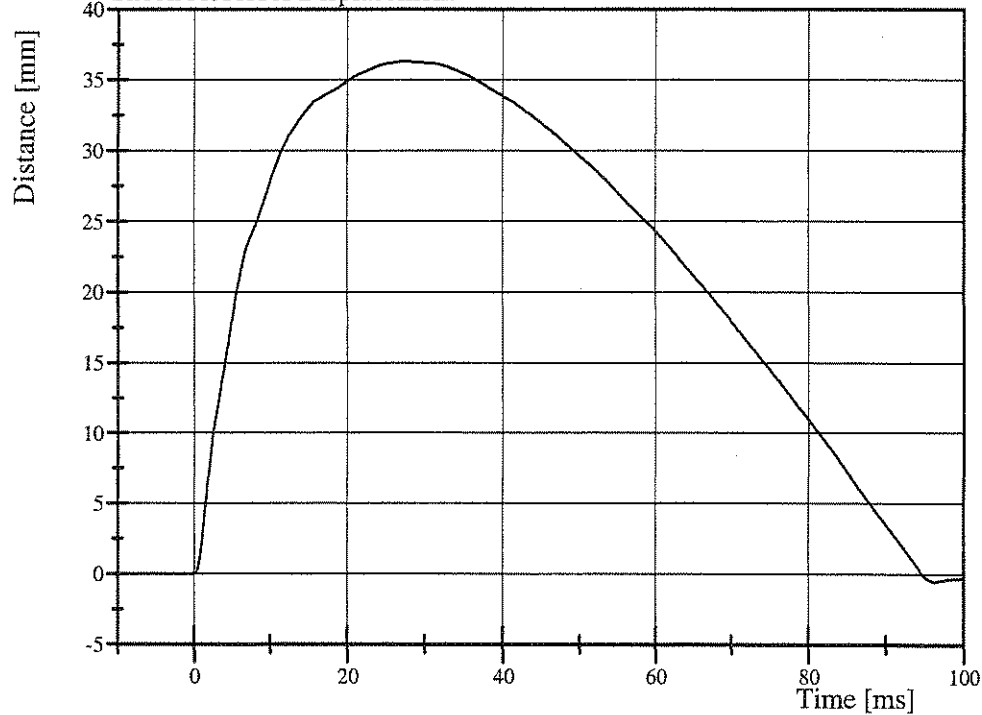


Filter Class: CFC_1000

Max: 4,361.1 N at 1.7 ms

Min: -1,203.7 N at 94.9 ms

Shock Absorber Displacement



Filter Class: CFC_1000

Max: 36.3 mm at 27.3 ms

Min: -0.6 mm at 96.3 ms

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	26 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.315 m/s	Yes
Pelvis Lateral Acceleration Duration above 20g	3 - 7 ms	5.6 ms	Yes
Pelvis Lateral Acceleration	40 - 60 g	55.8 g	Yes
Is Acceleration Curve Unimodal Above 20g?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Rand Boran

Approved

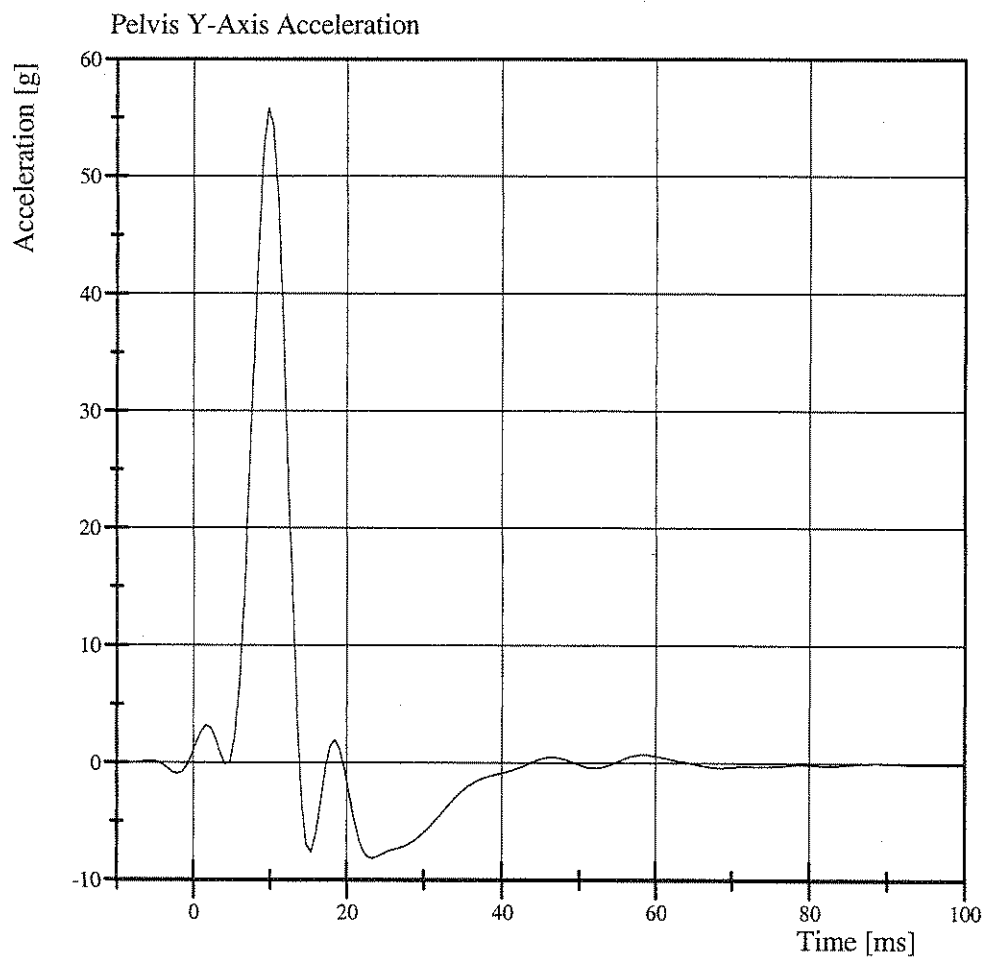
Ron Stoner

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 055 Certification No. 25-1

Test Date: 12/5/2006



Filter Class: FIR_100

Max: 55.8 g at 9.8 ms

Min: -8.1 g at 23.4 ms

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 055 Certification No. 25-2

Test Date: 12/5/2006

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	20.9 °C	Yes
Relative Humidity	10 - 70 %	26 %	Yes
Probe Force within Corridor	Yes	Yes	Yes
Probe Velocity	6.35 - 8.89 mm/s	8.003 mm/s	Yes

Test meets specifications.

Comments:

Technician

Raul Baranda

Approved

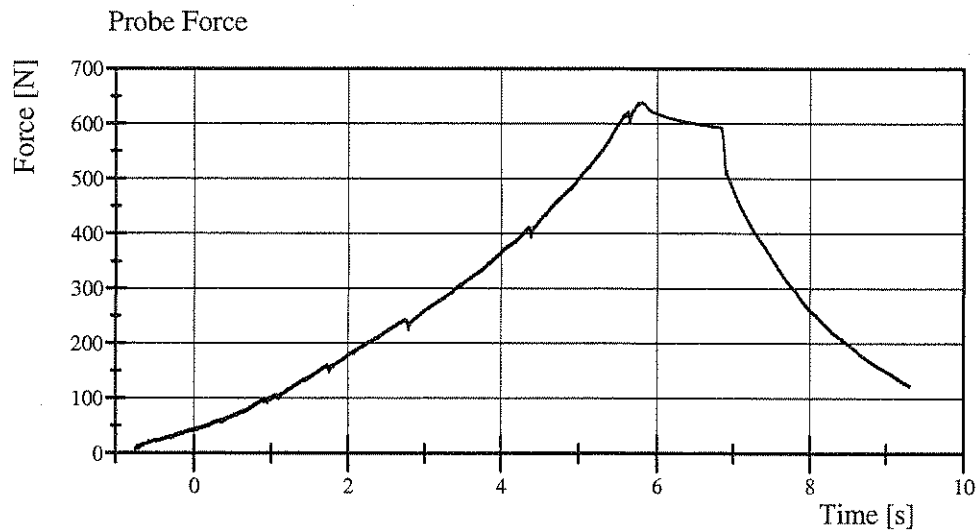
Ron Stoner

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 055 Certification No. 25-2

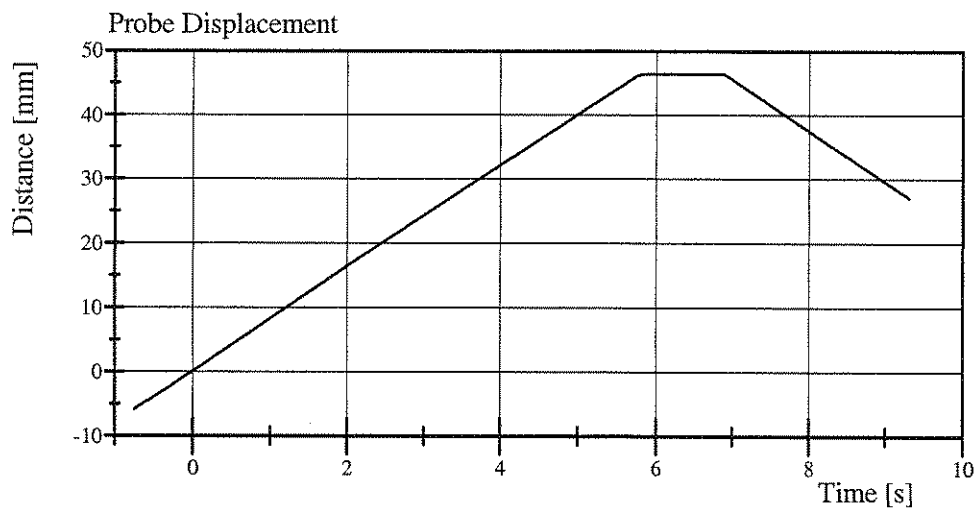
Test Date: 12/5/2006



Filter Class: CFC_600

Max: 637.9 N at 5.8 s

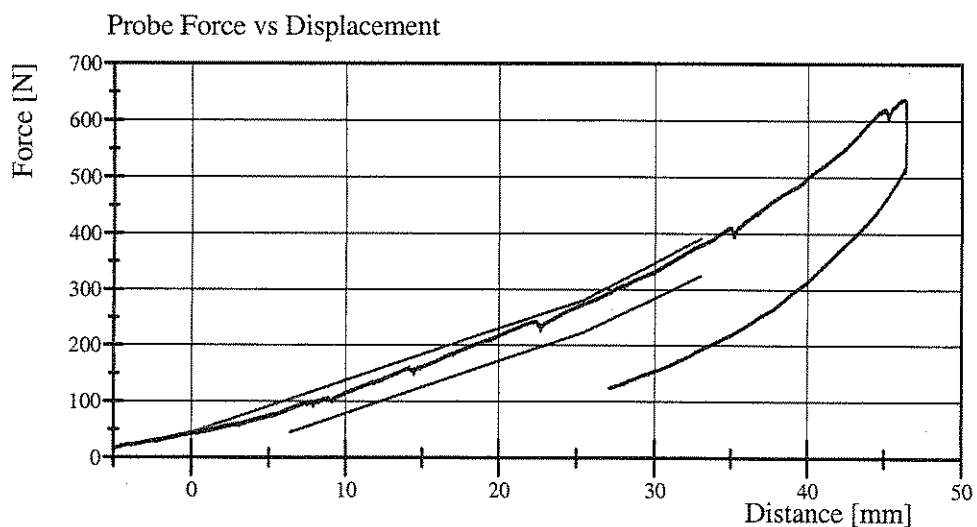
Min: 5.2 N at -0.7 s



Filter Class: CFC_180

Max: 46.4 mm at 6.7 s

Min: -5.9 mm at -0.7 s



Filter Class: CFC_600

Max: 637.9 N at 46.3 mm

Min: 5.2 N at -5.9 mm

TRANSPORTATION RESEARCH CENTER INC.

PART 572B LUMBAR FLEXION TEST

SID/HIII

CAL DATE: 05-Dec-06

TRC, INC.

TEST NO: LUFL-01

572M SN 055 TORSO FLEX CAL 25

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 – 25.6° C	21.2°C
RELATIVE HUMIDITY	10 – 70 %	27 %
FORCE AT 0 DEG. FLEXION	-27 – 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 – 151 N	133 N
FORCE AT 30 DEG OF FLEXION	151 – 205 N	204 N
FORCE AT 40 DEG OF FLEXION	205 – 258 N	244 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	5.0 °

TEST MEETS SPECIFICATIONS

TECHNICIAN Rand Beran

Calibration Test Results

Post-Test

SID HIII: 059

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time.

Transportation Research Center Inc.
SID/HIII Dummy Post-Test
External Dimensions
Serial No. 059 Calibration No. 21

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	904 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	513 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	518 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	500 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	366 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	172 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	172 mm	Yes
Difference Between Top & Bottom Rib Width from CL		<= 2.5 mm	0.0 mm	Yes

Technician

Approved

Charles Bell

Ron Stoner



Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	35 %	Yes
Peak Head Resultant Acceleration	120 - 150 g	143.9 g	Yes
Peak Head Longitudinal Acceleration	(-15) - 15 g	4.8 g	Yes
Is Head Resultant Acceleration Curve Unimodal Within 15% of Peak?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Rant Barales

Approved

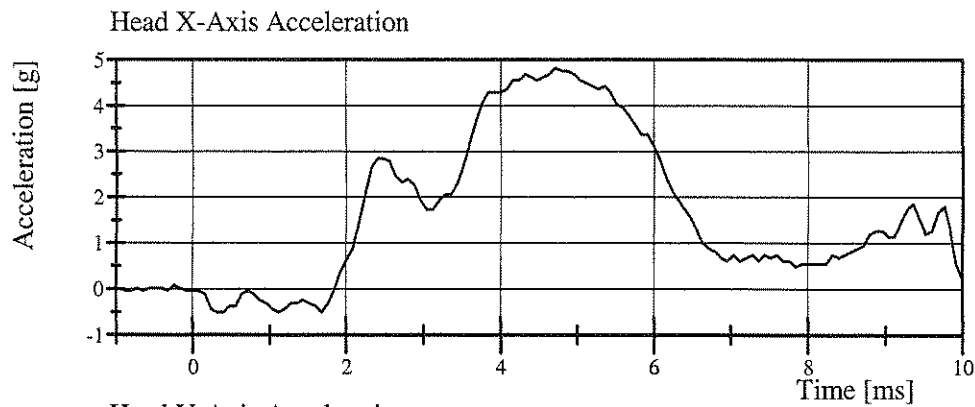
Ron Stoner

Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 059 Certification No. 21-1

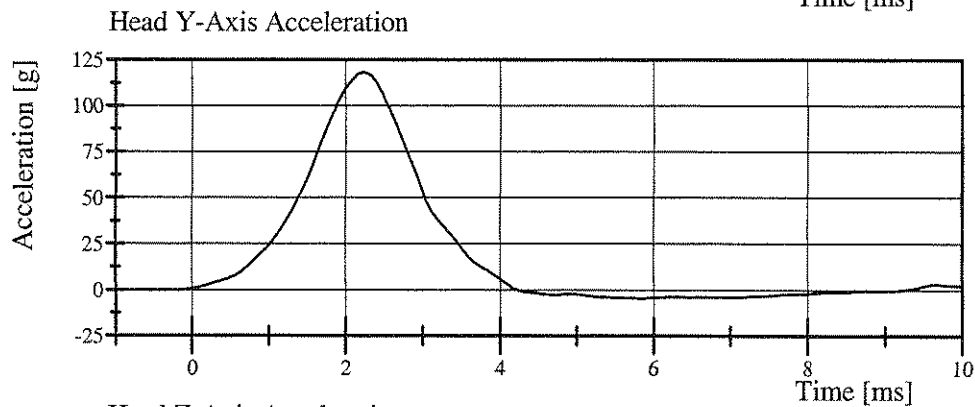
Test Date: 1/4/2007



Filter Class: CFC_1000

Max: 4.8 g at 4.7 ms

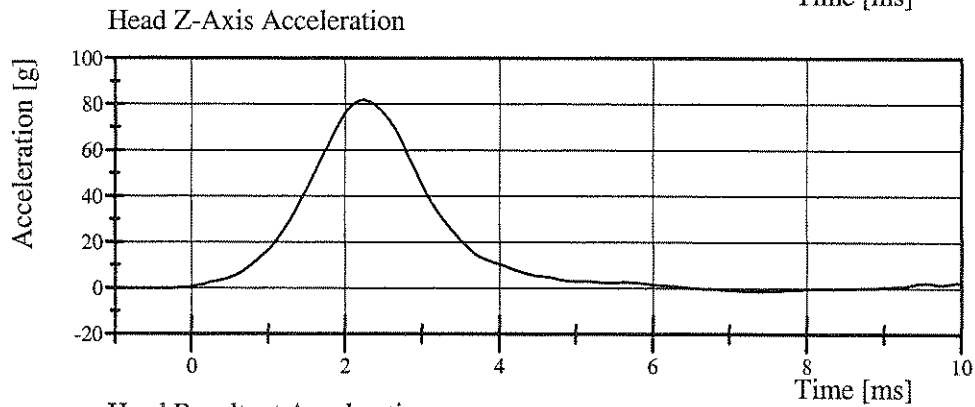
Min: -0.5 g at 0.3 ms



Filter Class: CFC_1000

Max: 118.3 g at 2.2 ms

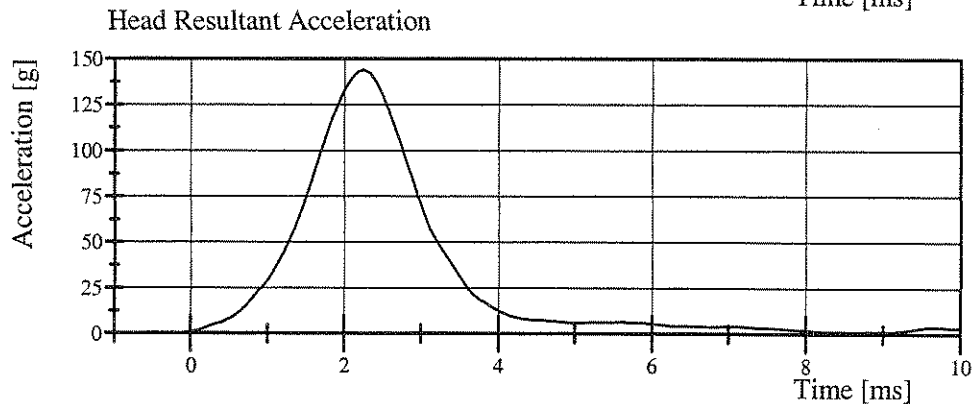
Min: -4.7 g at 5.8 ms



Filter Class: CFC_1000

Max: 81.9 g at 2.2 ms

Min: -1.2 g at 7.4 ms



Filter Class: CFC_1000

Max: 143.9 g at 2.2 ms

Min: 0.0 g at -0.6 ms

Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	36 %	Yes
Pendulum Velocity	(-6.89) - (-7.13) m/s	-7.051 m/s	Yes
Pendulum Integrated Velocity Change at 10 ms	1.96 - 2.55 m/s	2.146 m/s	Yes
Pendulum Integrated Velocity Change at 20 ms	4.12 - 5.10 m/s	4.398 m/s	Yes
Pendulum Integrated Velocity Change at 30 ms	5.73 - 7.01 m/s	6.339 m/s	Yes
Pendulum Integrated Velocity Change at 40 to 70 ms	6.27 - 7.64 m/s	7.132 m/s	Yes
Total Head D-Plane Rotation	(-66) - (-82) °	-70.8 °	Yes
Total Head D-Plane Rotation Time to 0° after Peak Rotation	58 - 67 ms	59.6 ms	Yes
Total Neck Occipital Condyle Moment	73 - 88 N·m	80.5 N·m	Yes
Total Neck Occipital Condyle Moment Time to 0 N·m after Peak Moment	49 - 64 ms	54.5 ms	Yes
Time from Peak Moment to Peak Rotation	2 - 16 ms	7.7 ms	Yes

Test meets specifications.

Comments:

Technician

Rand Brander

Approved

Ron Stoner

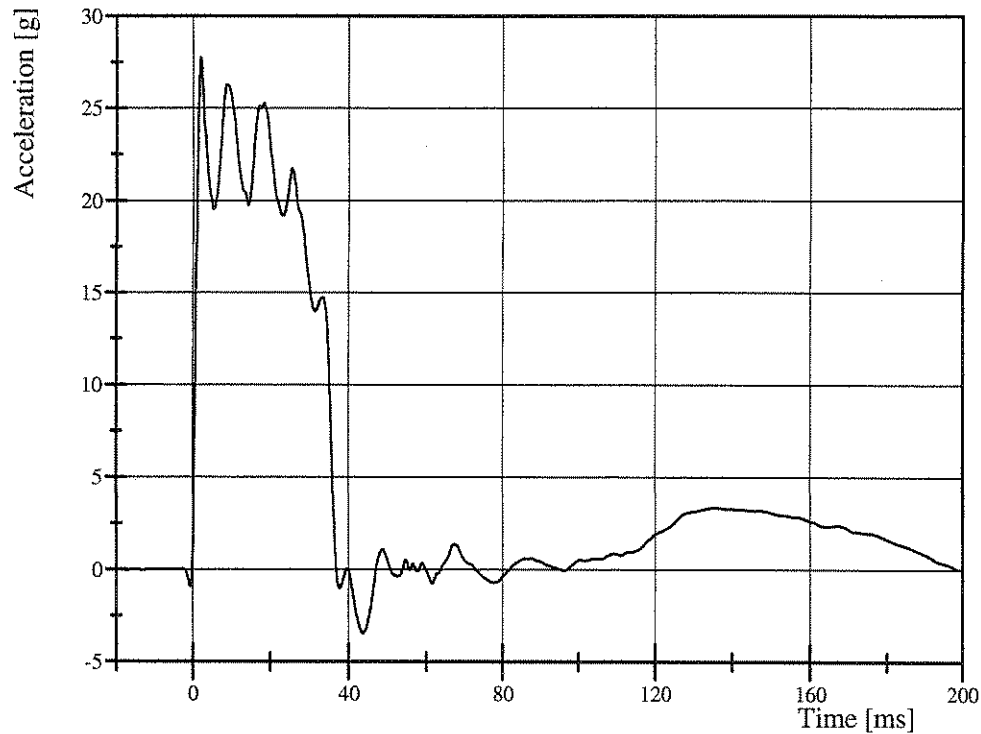
Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007

Pendulum Acceleration

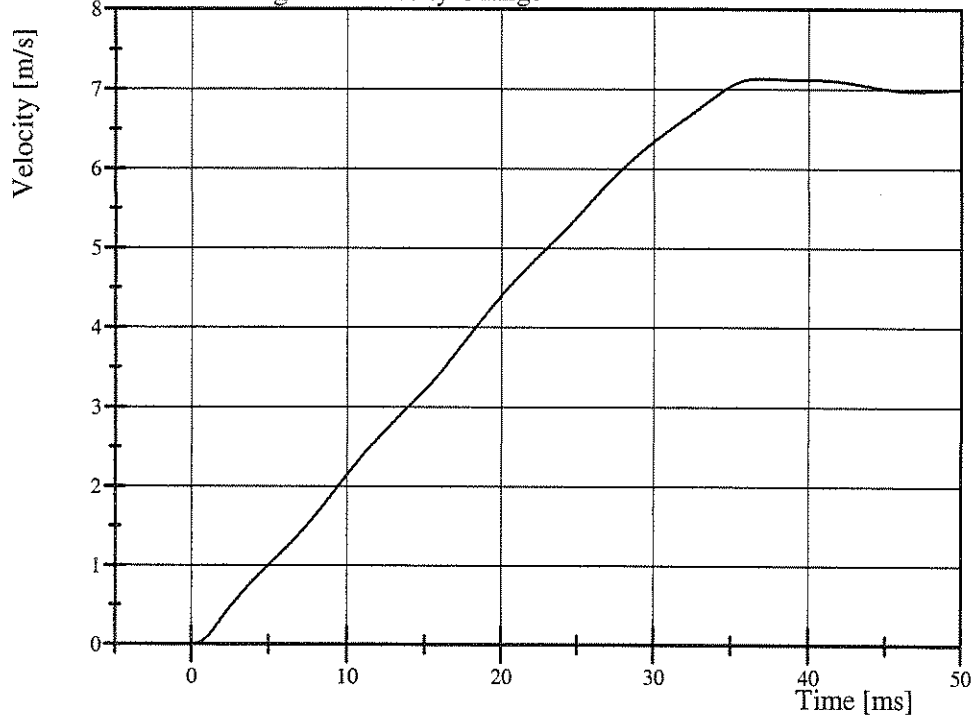


Filter Class: CFC_180

Max: 27.7 g at 2.0 ms

Min: -3.4 g at 43.7 ms

Pendulum Integrated Velocity Change



Filter Class: CFC_180

Max: 7.1 m/s at 37.0 ms

Min: 0.0 m/s at 0.0 ms

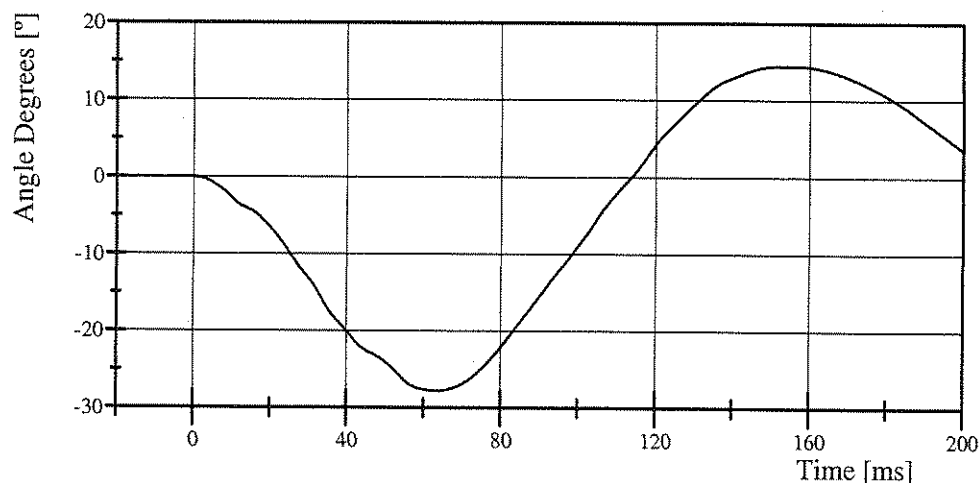
Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007

Pot Rotation at the Base of Neck

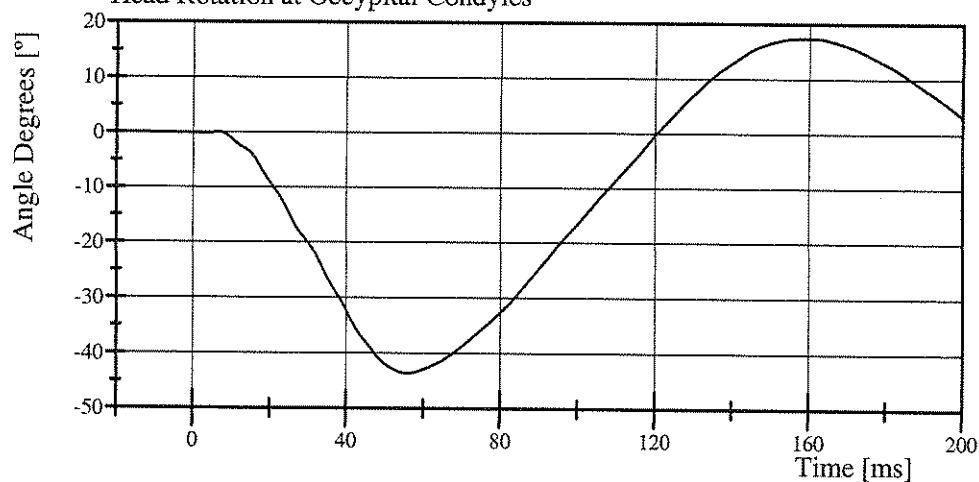


Filter Class: CFC_60

Max: 14.5 ° at 153.4 ms

Min: -27.8 ° at 63.5 ms

Head Rotation at Occypital Condyles

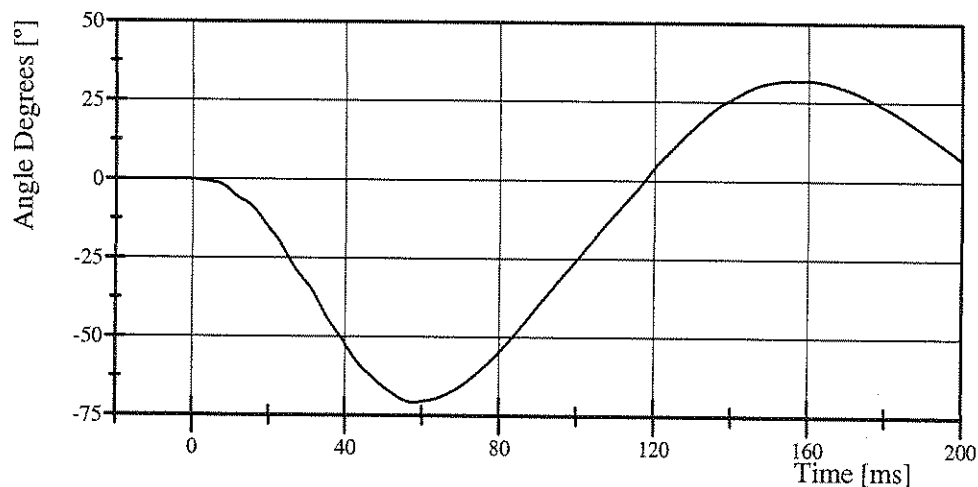


Filter Class: CFC_60

Max: 17.5 ° at 159.5 ms

Min: -43.6 ° at 55.9 ms

Total Head D-Plane Rotation



Filter Class: CFC_60

Max: 31.9 ° at 157.3 ms

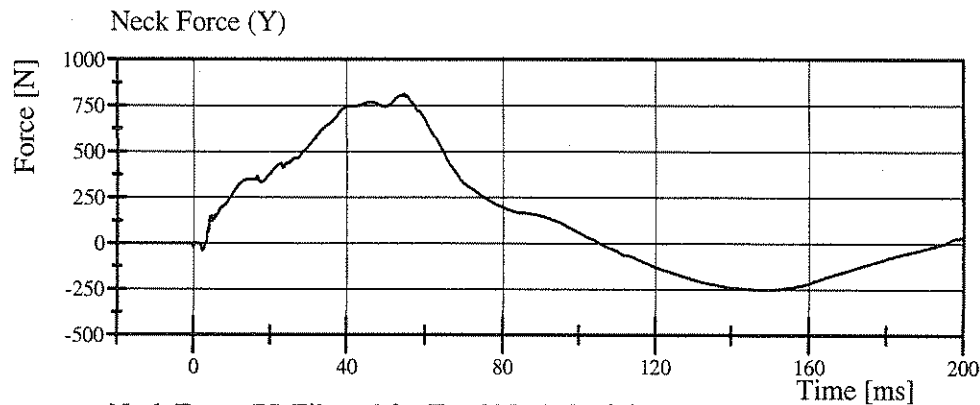
Min: -70.8 ° at 57.8 ms

Transportation Research Center Inc.

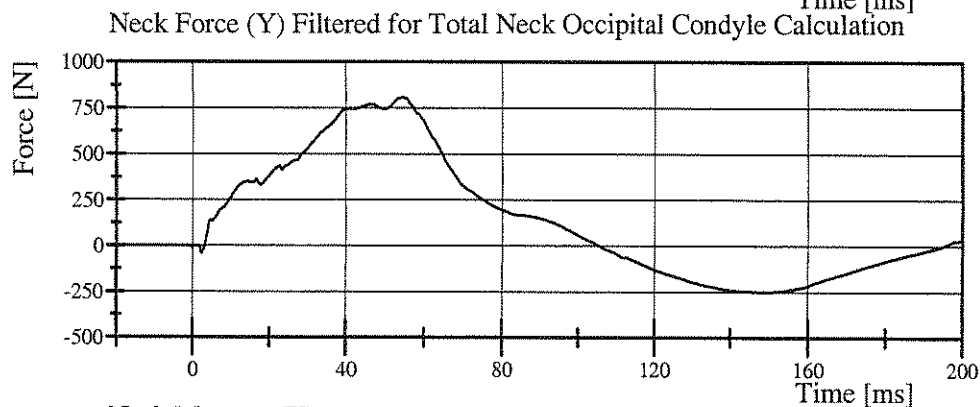
Left Lateral Neck

SID-HIII Serial No. 059 Certification No. 21-1

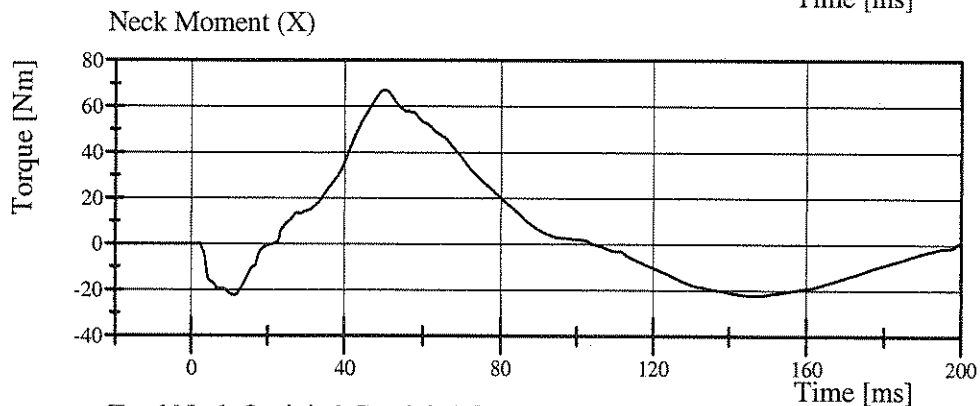
Test Date: 1/4/2007



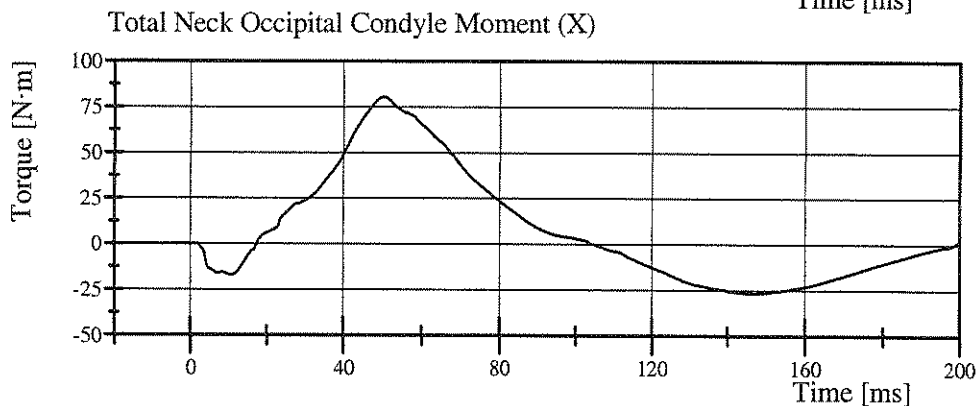
Filter Class: CFC_1000
Max: 812.5 N at 54.6 ms
Min: -250.4 N at 149.0 ms



Filter Class: CFC_600
Max: 811.2 N at 54.5 ms
Min: -250.2 N at 149.3 ms



Filter Class: CFC_600
Max: 67.2 Nm at 50.1 ms
Min: -22.2 Nm at 146.7 ms



Filter Class: CFC_600
Max: 80.5 N·m at 50.2 ms
Min: -26.7 N·m at 147.1 ms

Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.0 °C	Yes
Relative Humidity	10 - 70 %	34 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.291 m/s	Yes
Upper Rib Lateral Acceleration	37 - 46 g	41.7 g	Yes
Lower Rib Lateral Acceleration	37 - 46 g	40.6 g	Yes
Lower Spine Lateral Acceleration	15 - 22 g	19.1 g	Yes

Test meets specifications.

Comments:

Technician

Rant Barab

Approved

Ron Stoner

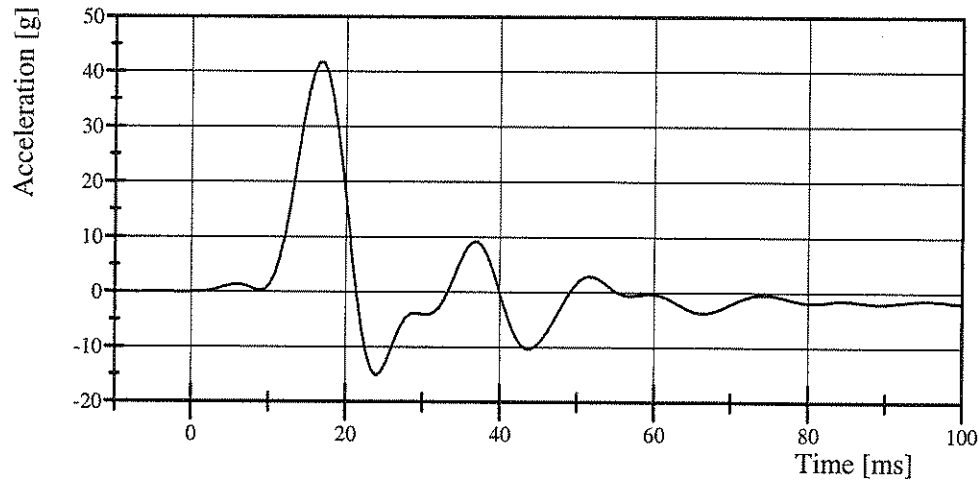
Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 059 Certification No. 21-1

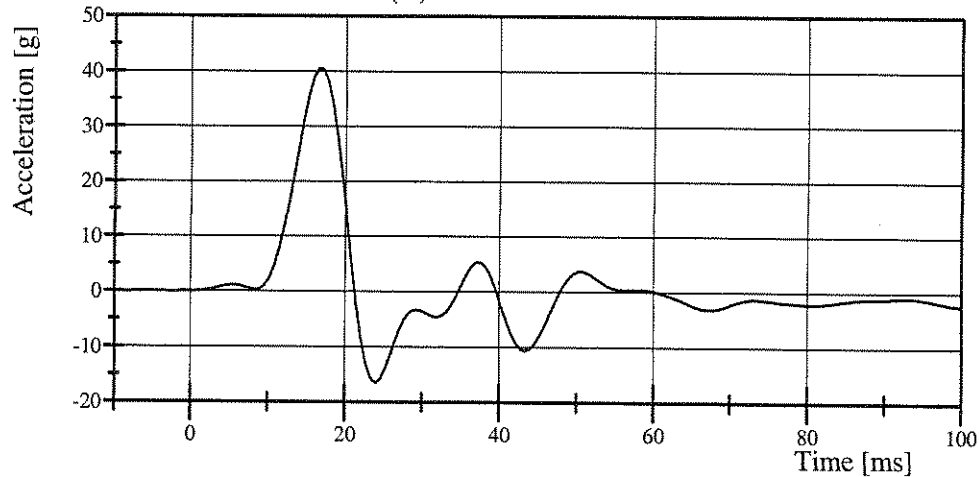
Test Date: 1/4/2007

Upper Rib Acceleration (Y)



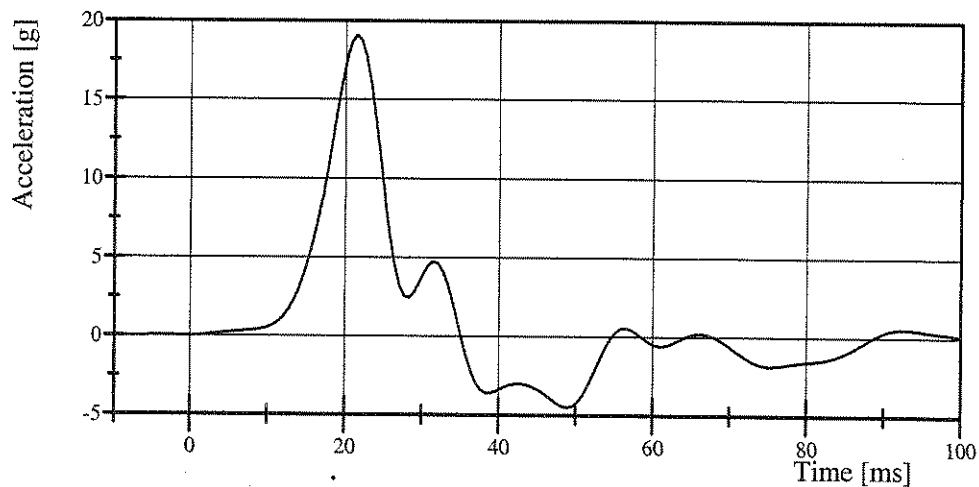
Filter Class: FIR_100
Max: 41.7 g at 17.0 ms
Min: -15.1 g at 24.0 ms

Lower Rib Acceleration (Y)



Filter Class: FIR_100
Max: 40.6 g at 16.5 ms
Min: -16.5 g at 23.9 ms

Lower Spine Acceleration (Y)



Filter Class: FIR_100
Max: 19.1 g at 21.4 ms
Min: -4.5 g at 49.0 ms

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 059 Certification No. 21-33

Test Date: 1/9/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	21 %	Yes
Probe Force within Corridor	Yes	Yes	Yes
Probe Velocity	6.35 - 8.89 mm/s	7.965 mm/s	Yes

Test meets specifications.

Comments:

Technician



Approved

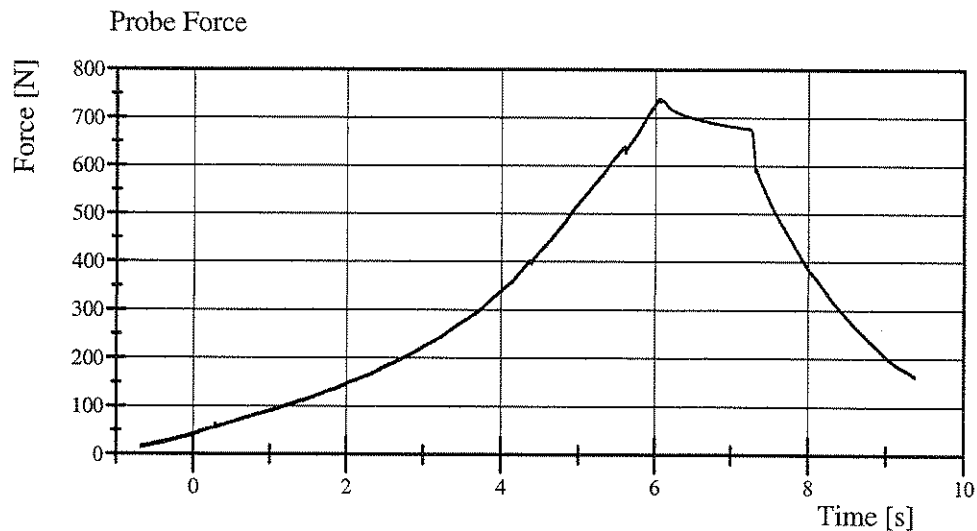


Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 059 Certification No. 21-33

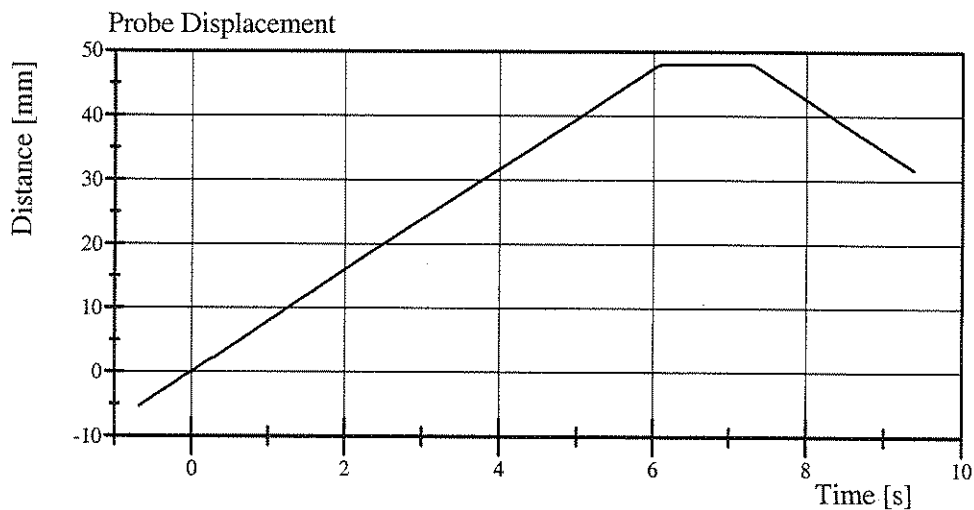
Test Date: 1/9/2007



Filter Class: CFC_600

Max: 739.8 N at 6.1 s

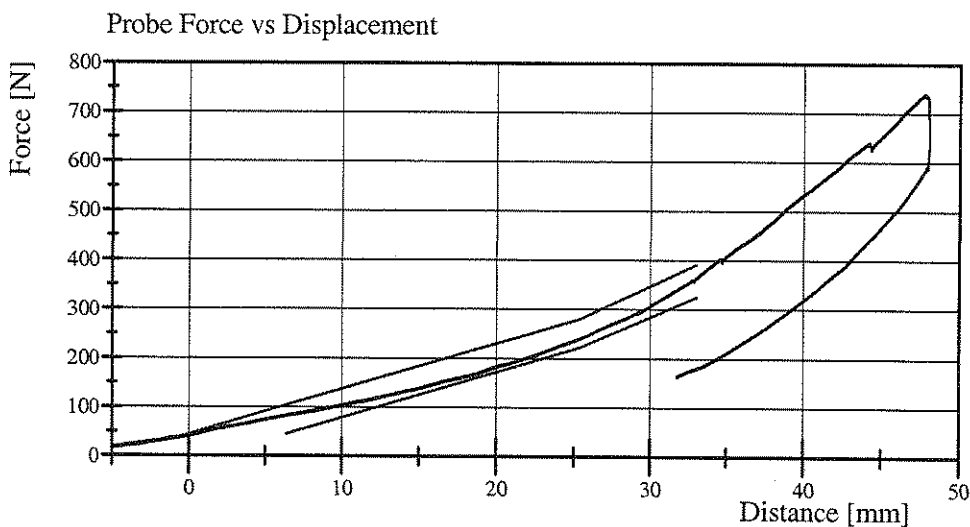
Min: 13.3 N at -0.7 s



Filter Class: CFC_180

Max: 48.0 mm at 7.1 s

Min: -5.4 mm at -0.7 s



Filter Class: CFC_600

Max: 739.8 N at 47.7 mm

Min: 13.3 N at -5.4 mm

TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 09-Jan-07

TRC, INC. TEST NO: LUFL-01 572B SN 059 TORSO FLEX CAL 21

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 – 25.6° C	20.8 C
RELATIVE HUMIDITY	10 – 70 %	20 %
FORCE AT 0 DEG. FLEXION	-27 – 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 – 151 N	120 N
FORCE AT 30 DEG OF FLEXION	151 – 205 N	169 N
FORCE AT 40 DEG OF FLEXION	205 – 258 N	209 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	5.5 °

TEST MEETS SPECIFICATIONS

TECHNICIAN Charles Kelly

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	33 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.294 m/s	Yes
Pelvis Lateral Acceleration Duration above 20g	3 - 7 ms	6.5 ms	Yes
Pelvis Lateral Acceleration	40 - 60 g	46.0 g	Yes
Is Acceleration Curve Unimodal Above 20g?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Rant Baur

Approved

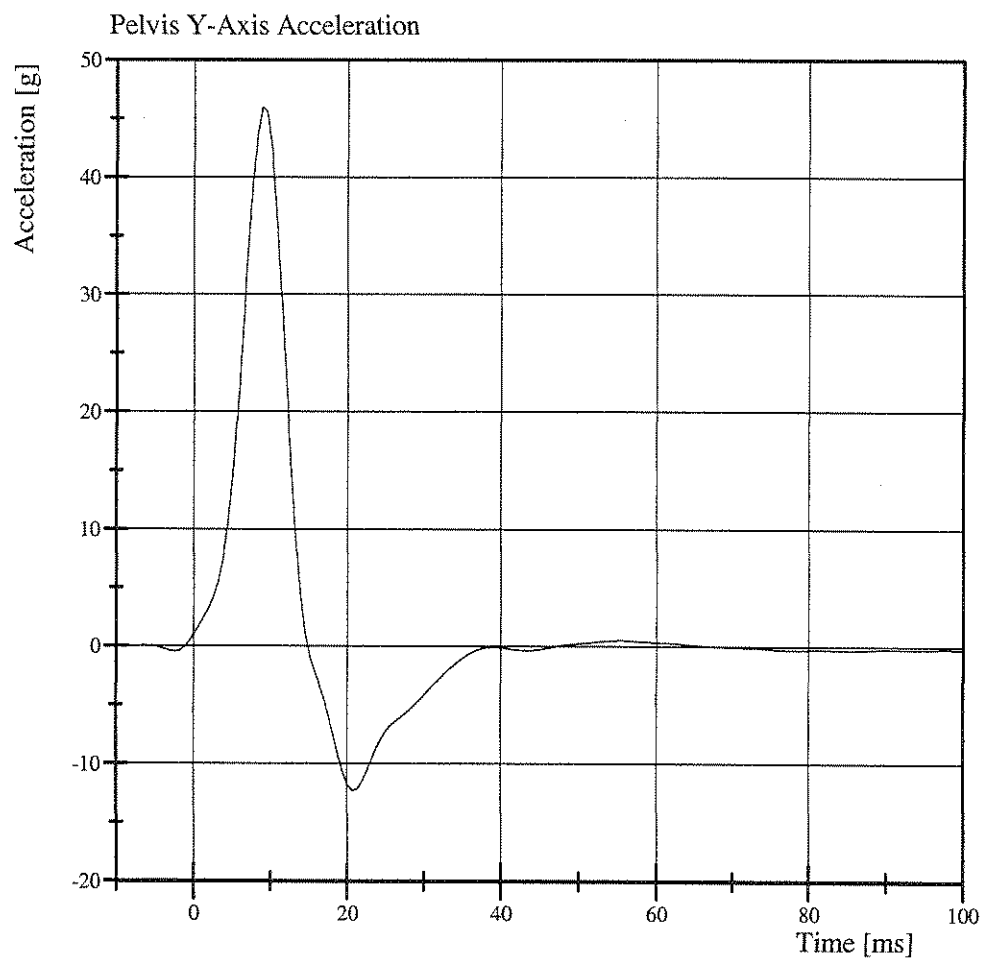
Ron Stoner

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 059 Certification No. 21-1

Test Date: 1/4/2007



Filter Class: FIR_100

Max: 46.0 g at 8.9 ms

Min: -12.3 g at 20.7 ms

Calibration Test Results

Post-Test

SID HIII: 055

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time.

Transportation Research Center Inc.
SID/HII Dummy
External Dimensions
Serial No. 055 Calibration No. 26

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	905 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	510 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	518 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	500 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	370 mm	Yes
Top Rib Width From C/L	RW-1	165.1 - 180.3 mm	168 mm	Yes
Bottom Rib Width From C/L	RW-2	165.1 - 180.3 mm	169 mm	Yes
Difference Between Top & Bottom Rib Width from C/L		<= 2.5 mm	1.0 mm	Yes

Technician

Charles Bell

Approved

Ron Storer



Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	35 %	Yes
Peak Head Resultant Acceleration	120 - 150 g	141.6 g	Yes
Peak Head Longitudinal Acceleration	(-15) - 15 g	-6.8 g	Yes
Is Head Resultant Acceleration Curve Unimodal Within 15% of Peak?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Rent Barab

Approved

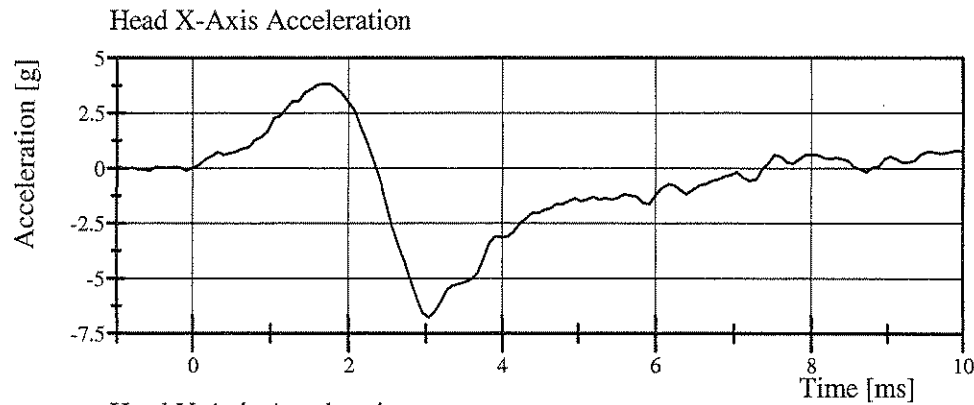
Ron Stoner

Transportation Research Center Inc.

Left Lateral Head Drop

SID-HIII Serial No. 055 Certification No. 26-1

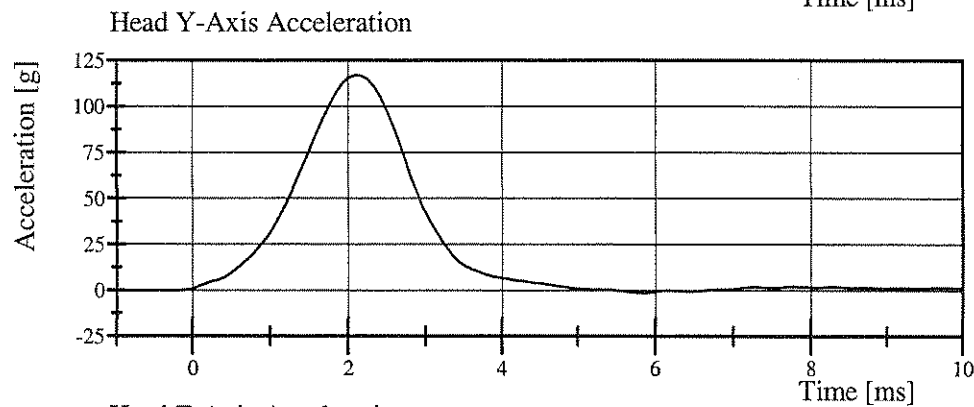
Test Date: 1/4/2007



Filter Class: CFC_1000

Max: 3.8 g at 1.7 ms

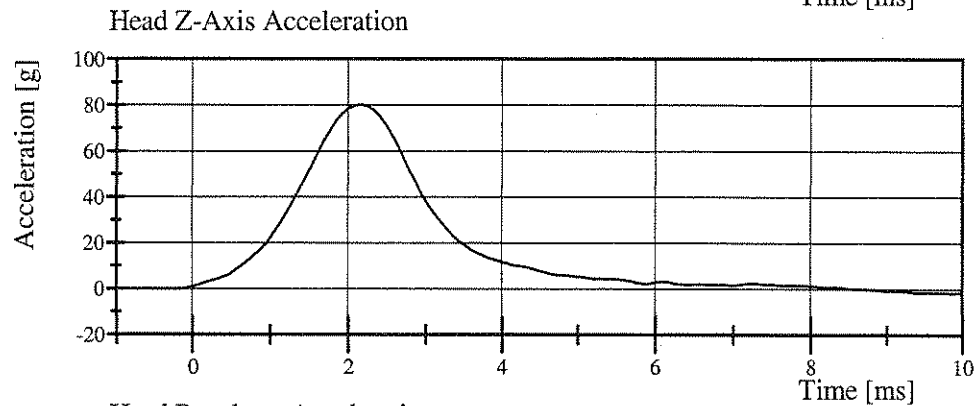
Min: -6.8 g at 3.0 ms



Filter Class: CFC_1000

Max: 116.9 g at 2.1 ms

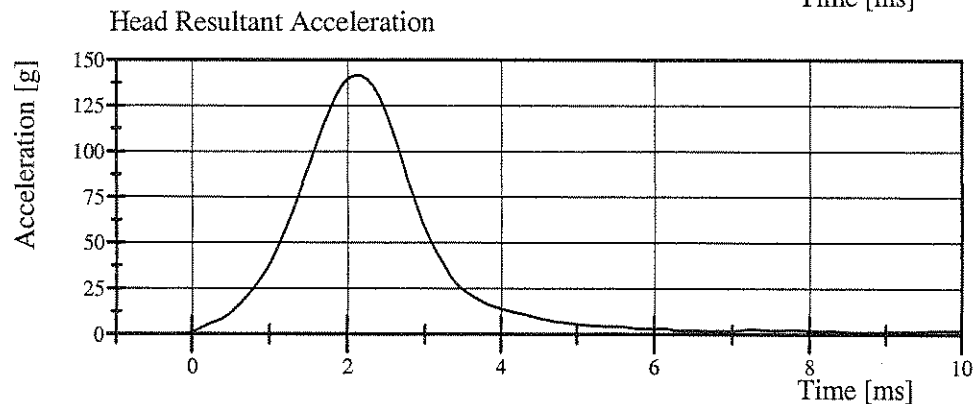
Min: -1.5 g at 5.8 ms



Filter Class: CFC_1000

Max: 80.1 g at 2.2 ms

Min: -1.7 g at 9.8 ms



Filter Class: CFC_1000

Max: 141.6 g at 2.1 ms

Min: 0.0 g at -0.2 ms



Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/5/2007

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.0 °C	Yes
Relative Humidity	10 - 70 %	58 %	Yes
Pendulum Velocity	(-6.89) - (-7.13) m/s	-7.071 m/s	Yes
Pendulum Integrated Velocity Change at 10 ms	1.96 - 2.55 m/s	2.281 m/s	Yes
Pendulum Integrated Velocity Change at 20 ms	4.12 - 5.10 m/s	4.602 m/s	Yes
Pendulum Integrated Velocity Change at 30 ms	5.73 - 7.01 m/s	6.575 m/s	Yes
Pendulum Integrated Velocity Change at 40 to 70 ms	6.27 - 7.64 m/s	7.210 m/s	Yes
Total Head D-Plane Rotation	(-66) - (-82) °	-69.8 °	Yes
Total Head D-Plane Rotation Time to 0° after Peak Rotation	58 - 67 ms	60.7 ms	Yes
Total Neck Occipital Condyle Moment	73 - 88 N·m	83.2 N·m	Yes
Total Neck Occipital Condyle Moment Time to 0 N·m after Peak Moment	49 - 64 ms	54.2 ms	Yes
Time from Peak Moment to Peak Rotation	2 - 16 ms	8.6 ms	Yes

Test meets specifications.

Comments:

Technician

Ronald Benavides

Approved

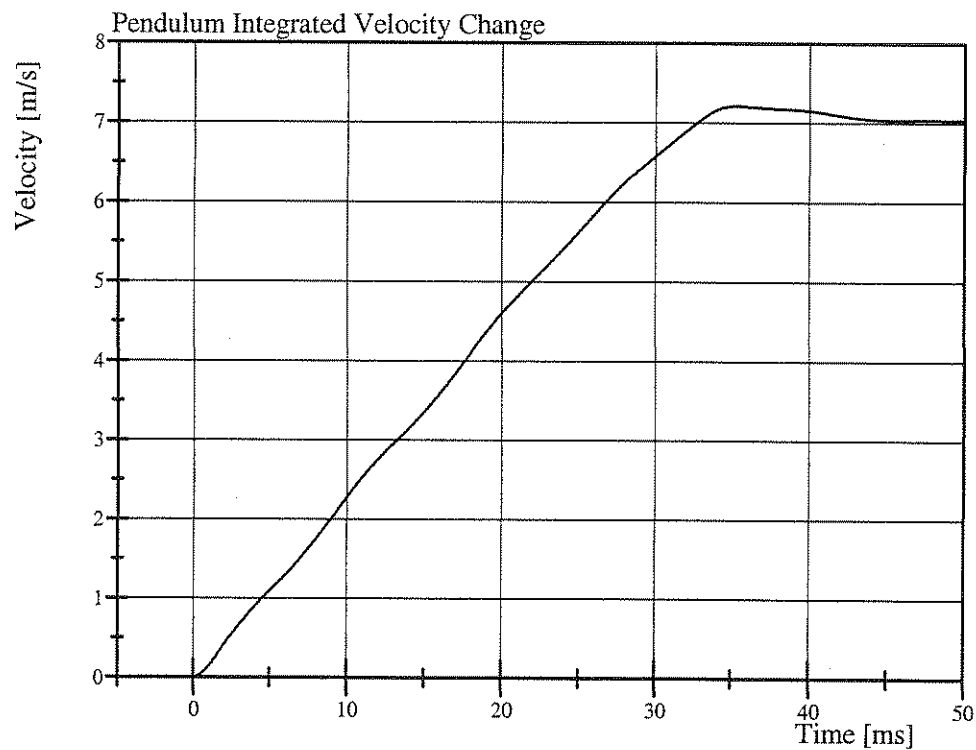
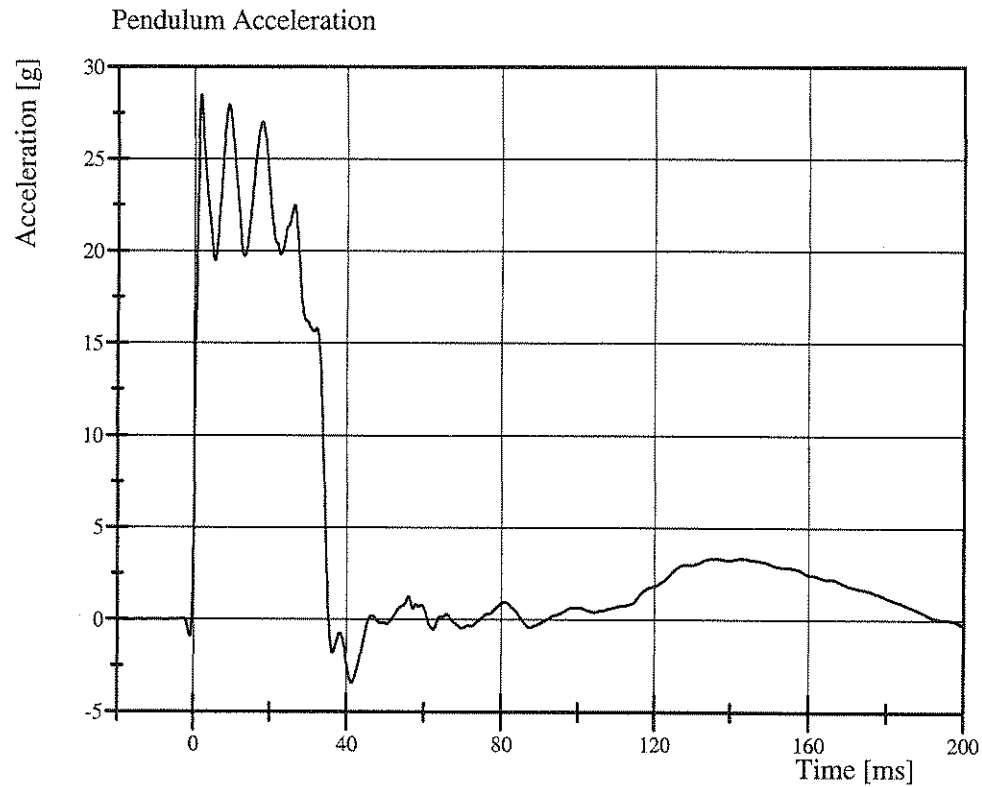
Ron Stoner

Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/5/2007



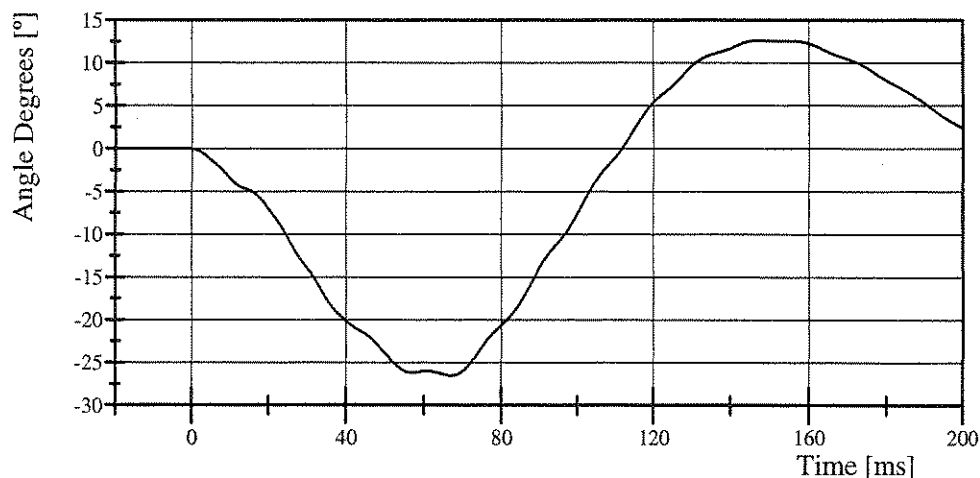
Transportation Research Center Inc.

Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/5/2007

Pot Rotation at the Base of Neck

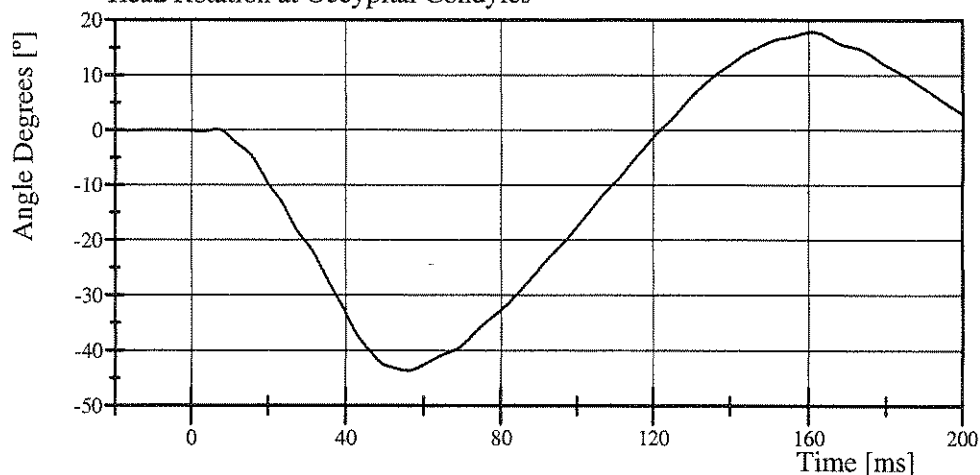


Filter Class: CFC_60

Max: 12.6 ° at 147.3 ms

Min: -26.5 ° at 67.2 ms

Head Rotation at Occypital Condyles

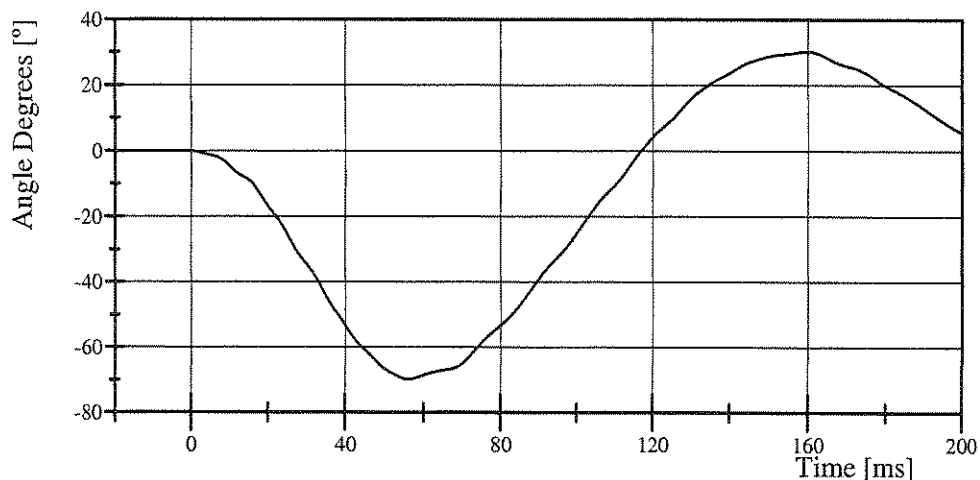


Filter Class: CFC_60

Max: 17.9 ° at 161.0 ms

Min: -43.6 ° at 55.8 ms

Total Head D-Plane Rotation



Filter Class: CFC_60

Max: 30.2 ° at 159.8 ms

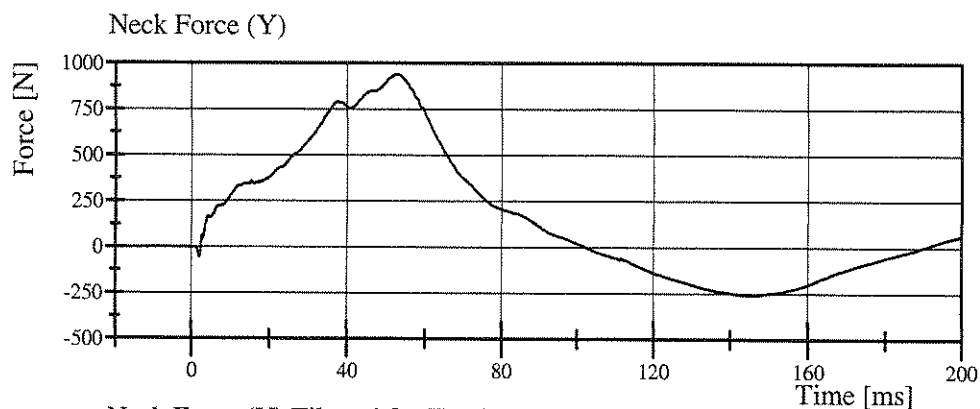
Min: -69.8 ° at 56.2 ms

Transportation Research Center Inc.

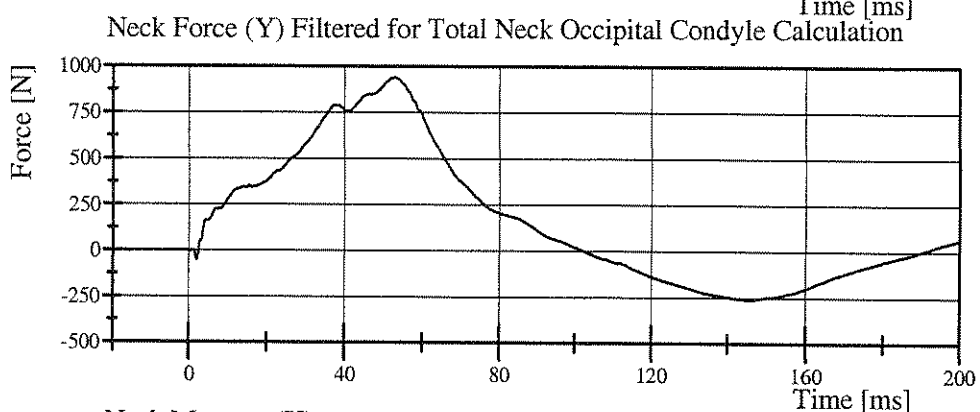
Left Lateral Neck

SID-HIII Serial No. 055 Certification No. 26-1

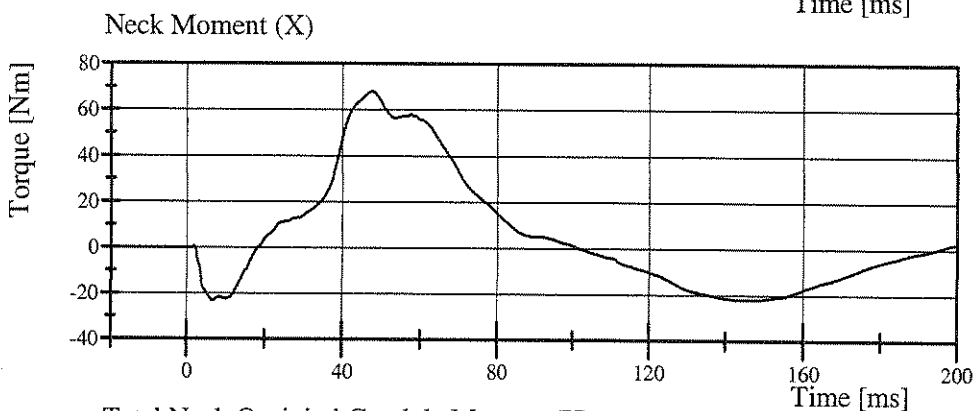
Test Date: 1/5/2007



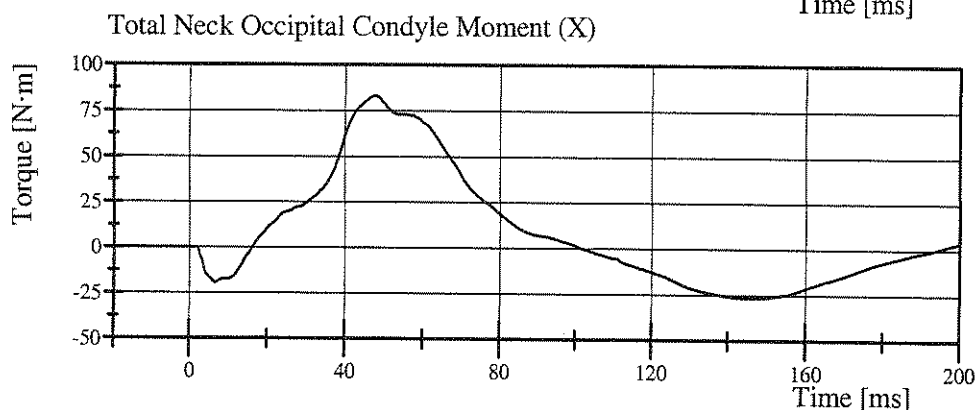
Filter Class: CFC_1000
Max: 940.8 N at 52.7 ms
Min: -259.7 N at 144.9 ms



Filter Class: CFC_600
Max: 940.4 N at 52.8 ms
Min: -259.1 N at 144.8 ms



Filter Class: CFC_600
Max: 68.0 Nm at 47.5 ms
Min: -23.3 Nm at 6.7 ms



Filter Class: CFC_600
Max: 83.2 N·m at 47.6 ms
Min: -26.6 N·m at 145.0 ms

Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	20.9 °C	Yes
Relative Humidity	10 - 70 %	34 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.297 m/s	Yes
Upper Rib Lateral Acceleration	37 - 46 g	45.4 g	Yes
Lower Rib Lateral Acceleration	37 - 46 g	44.9 g	Yes
Lower Spine Lateral Acceleration	15 - 22 g	20.5 g	Yes

Test meets specifications.

Comments:

Technician

Rand Barab

Approved

Ron Stoner

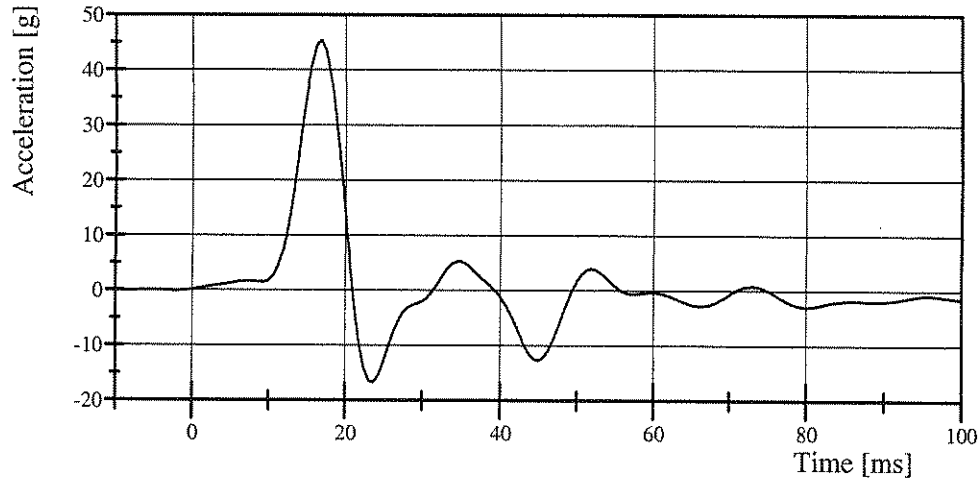
Transportation Research Center Inc.

Left Lateral Thorax

SID-HIII Serial No. 055 Certification No. 26-1

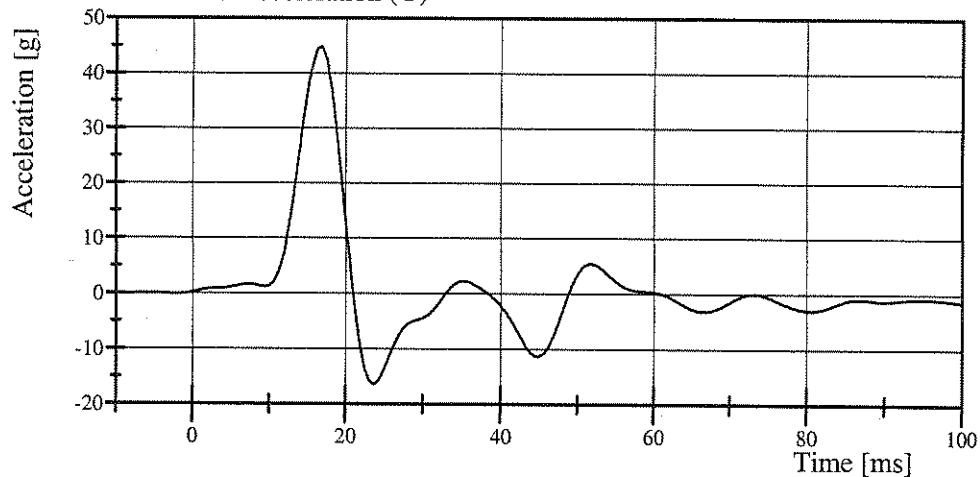
Test Date: 1/4/2007

Upper Rib Acceleration (Y)



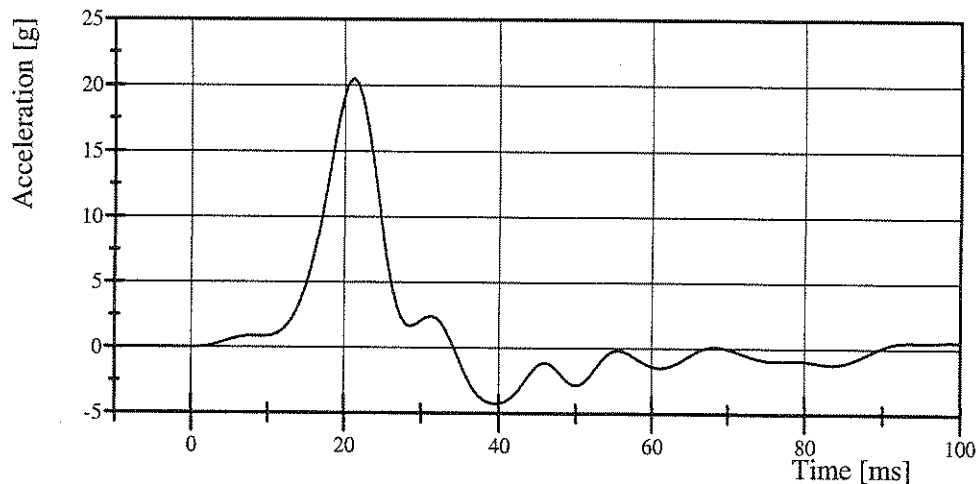
Filter Class: FIR_100
Max: 45.4 g at 16.8 ms
Min: -16.7 g at 23.7 ms

Lower Rib Acceleration (Y)



Filter Class: FIR_100
Max: 44.9 g at 16.8 ms
Min: -16.4 g at 23.7 ms

Lower Spine Acceleration (Y)



Filter Class: FIR_100
Max: 20.5 g at 21.2 ms
Min: -4.3 g at 39.4 ms

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 055 Certification No. 26-8

Test Date: 1/8/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	30 %	Yes
Probe Force within Corridor	Yes	Yes	Yes
Probe Velocity	6.35 - 8.89 mm/s	7.974 mm/s	Yes

Test meets specifications.

Comments:

Technician

Ronald Berand

Approved

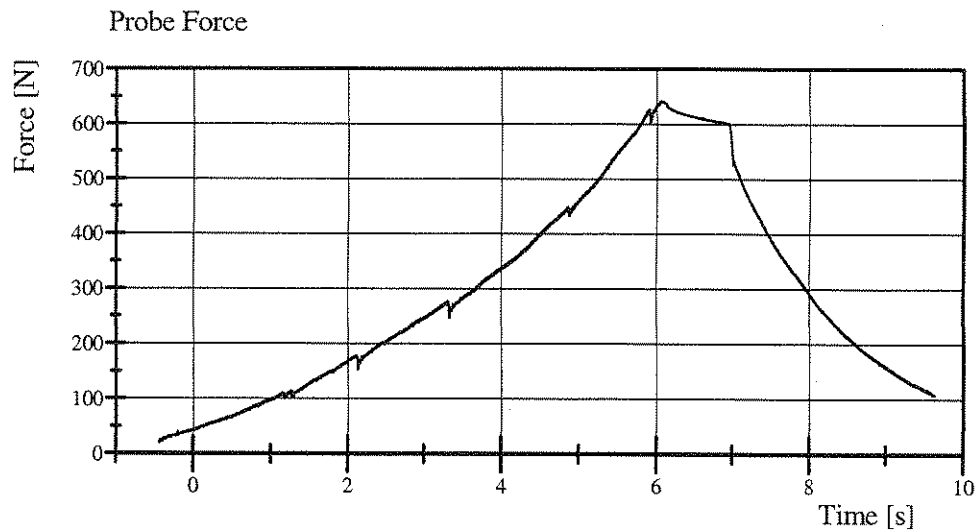
Ron Stoner

Transportation Research Center Inc.

Abdomen Compression

SID-HIII Serial No. 055 Certification No. 26-8

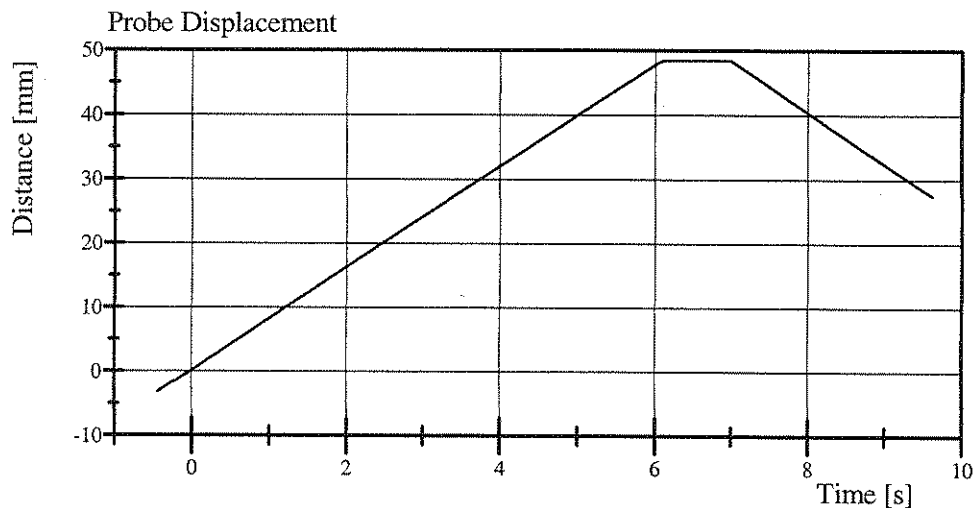
Test Date: 1/8/2007



Filter Class: CFC_600

Max: 641.2 N at 6.1 s

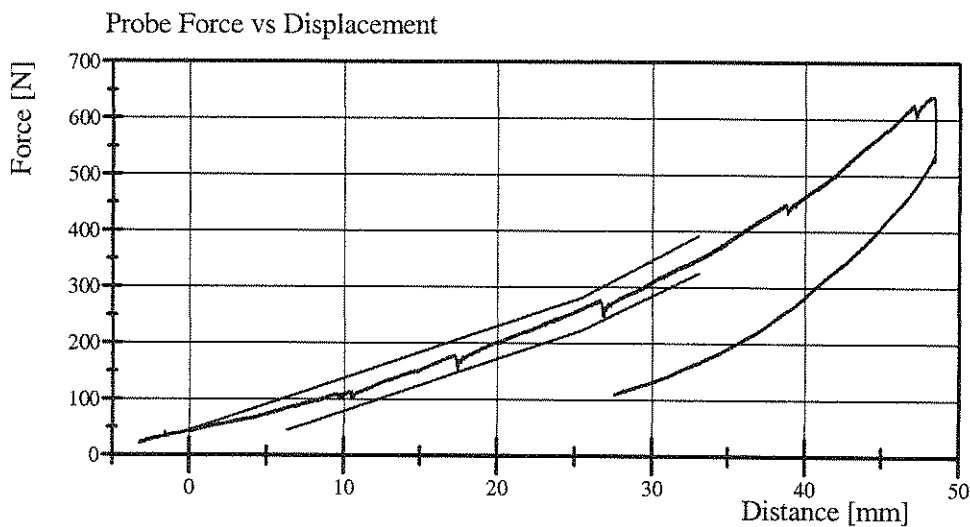
Min: 19.8 N at -0.4 s



Filter Class: CFC_180

Max: 48.4 mm at 7.0 s

Min: -3.2 mm at -0.4 s



Filter Class: CFC_600

Max: 641.2 N at 48.2 mm

Min: 19.8 N at -3.2 mm

TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 09-Jan-07

TRC, INC.

TEST NO: LUFL-01

572B SN 055 TORSO FLEX CAL 26

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 – 25.6° C	21.3 C
RELATIVE HUMIDITY	10 – 70 %	24 %
FORCE AT 0 DEG. FLEXION	-27 – 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 – 151 N	120 N
FORCE AT 30 DEG OF FLEXION	151 – 205 N	160 N
FORCE AT 40 DEG OF FLEXION	205 – 258 N	209 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	7.5 °

TEST MEETS SPECIFICATIONS

TECHNICIAN

Rand Brand

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/4/2007

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	33 %	Yes
Impactor Velocity	4.27 - 4.33 m/s	4.299 m/s	Yes
Pelvis Lateral Acceleration Duration above 20g	3 - 7 ms	5.8 ms	Yes
Pelvis Lateral Acceleration	40 - 60 g	46.4 g	Yes
Is Acceleration Curve Unimodal Above 20g?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Ronit Baran

Approved

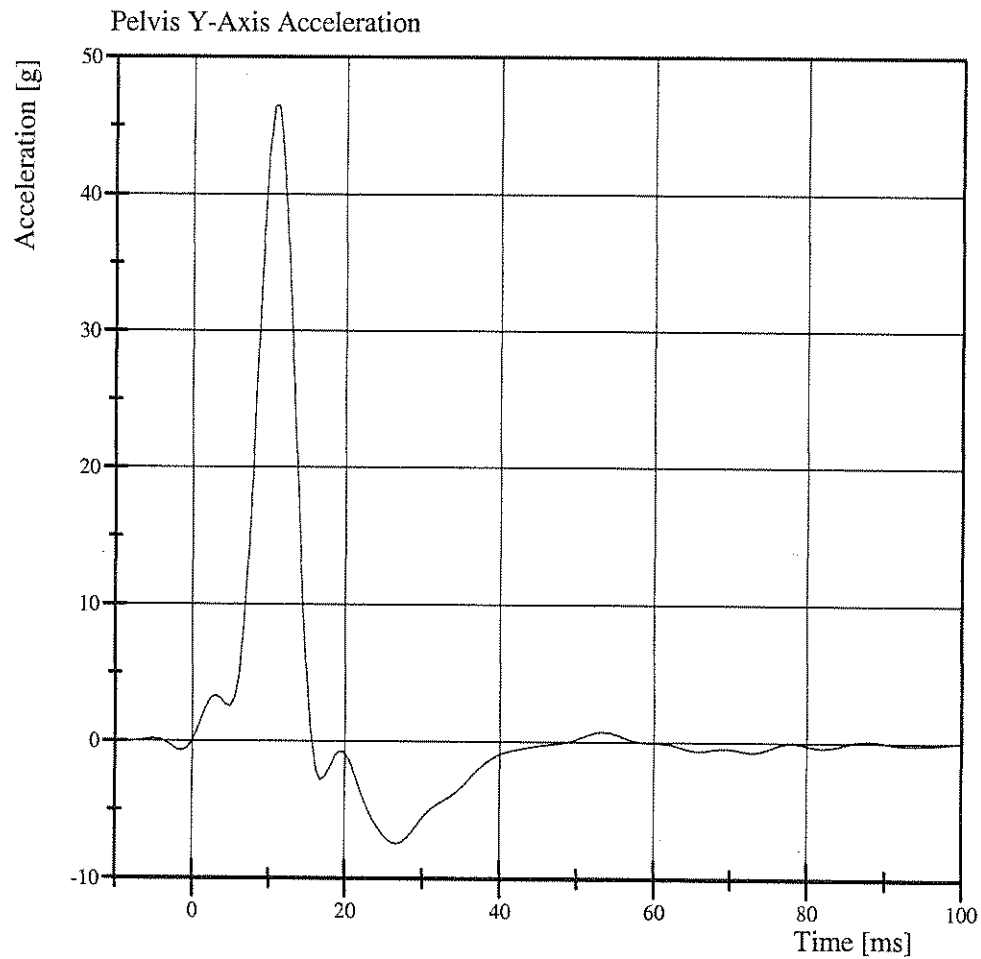
Ron Stoner

Transportation Research Center Inc.

Left Lateral Pelvis

SID-HIII Serial No. 055 Certification No. 26-1

Test Date: 1/4/2007



Filter Class: FIR_100
Max: 46.4 g at 11.1 ms
Min: -7.5 g at 26.7 ms

TRANSPORTATION RESEARCH
CENTER INC.



SID or SID/HIII

Test Date: 01/03/07

Type: 50% S/N: 059 Mfg.: ASTC

Proj./Seg. No.: 20020455/ 3070 Test Eng: Walter D. Dudek

ITEM	PRE-USE	POST-USE
HEAD:		
Skull Cap Bolts: tight and no wires pinched	X	
Head Skin Condition	X	X
* Neck Load Cell Cables: secure, taped, and with strain relief	X	
Accel. Cable Exit (left or right)	N/A	
NECK:		
Rubber Condition and Separation From End Caps	X	X
NECK – SID/HIII only:		
Condyle Pin, Set Screws	X	
* Neck Cable Torque (10-14 in lb) Actual: <u>12</u>	X	
* Nodding Blocks Condition and Position (Post-test Joint Function)	X	X
THORAX:		
Jacket & Abdomen Condition	X	X
Stacked Shoulder Foams and Bolts	X	X
Rib Wrap Condition	X	X
Rib Cage Spring and Support Assembly	X	X
Rib Cage Bolts	X	X
Damper Rear Attachment Ring, Pivot Pins, and Bracket	N/A	N/A
Location and Adjustment of Chest Pot Bracket and Collars	N/A	N/A
Chest Pot Rod End Nuts and Eyebolt	N/A	
Arm Foam Orientation/Condition	X	X
Thorax/Lumbar Spine Bolts / Condition and Separation from End Caps	X	X
Adjust rib cage position to full extension	X	
PELVIS:		
Iliac Crest Bone	X	X
Flesh Condition	X	X
Tightness and Alignment of H-Point Tool Insert	X	
Hips Range of Motion and 1-2g Adjustment (before calibration only)	X	
Upper Femur Bolt Adjustment and Position	X	
LEGS AND FEET:		
Knee Skins and Castings Condition	X	X
Femur Load Cell Bolts	X	
Breakaway Femur Bolts - function	X	
Knee Joint Function and Range of Motion	X	X
Leg Skin Condition and Position	X	X
Ankle Range of Motion	X	X
Foot Condition	X	X
OTHER:		
Cleanliness	X	
Target Position	X	
Clothes and Shoes PINK	X	
One G Joint Adjustments	X	
Verify channel s against assembly and Check connectors (intact & labeled)	X	
ATTACH TEMPERATURE LOGGER TO DUMMY / DOWNLOAD	X	X

* Items checked during calibration; these items need checked when the dummy is used without recalibration

Pre Test Inspection Completed By: J. Clarridge Date: 12/22/06

Post Test Inspection Completed By: J. Clarridge Date: 01/04/07

TRANSPORTATION RESEARCH
CENTER INC.



SID or SID/HIII

Test Date: 01/03/07

Type: 50% S/N: 055 Mfg.: ASTC

Proj./Seg. No.: 20020455/ 3070 Test Eng: Walter D. Dudek

ITEM	PRE-USE	POST-USE
HEAD:		
Skull Cap Bolts: tight and no wires pinched	X	
Head Skin Condition	X	X
* Neck Load Cell Cables: secure, taped, and with strain relief	X	
Accel. Cable Exit (left or right)	N/A	
NECK:		
Rubber Condition and Separation From End Caps	X	X
NECK – SID/HIII only:		
Condyle Pin, Set Screws	X	
* Neck Cable Torque (10-14 in lb) Actual: <u>12</u>	X	
* Nodding Blocks Condition and Position (Post-test Joint Function)	X	X
THORAX:		
Jacket & Abdomen Condition	X	X
Stacked Shoulder Foams and Bolts	X	X
Rib Wrap Condition	X	X
Rib Cage Spring and Support Assembly	X	X
Rib Cage Bolts	X	X
Damper Rear Attachment Ring, Pivot Pins, and Bracket	N/A	X
Location and Adjustment of Chest Pot Bracket and Collars	N/A	X
Chest Pot Rod End Nuts and Eyebolt	N/A	
Arm Foam Orientation/Condition	X	X
Thorax/Lumbar Spine Bolts / Condition and Separation from End Caps	X	X
Adjust rib cage position to full extension	X	
PELVIS:		
Iliac Crest Bone	X	X
Flesh Condition	X	X
Tightness and Alignment of H-Point Tool Insert	X	
Hips Range of Motion and 1-2g Adjustment (before calibration only)	X	
Upper Femur Bolt Adjustment and Position	X	
LEGS AND FEET:		
Knee Skins and Castings Condition	X	X
Femur Load Cell Bolts	X	
Breakaway Femur Bolts - function	X	
Knee Joint Function and Range of Motion	X	X
Leg Skin Condition and Position	X	X
Ankle Range of Motion	X	X
Foot Condition	X	X
OTHER:		
Cleanliness	X	
Target Position	X	
Clothes and Shoes BLUE	X	
One G Joint Adjustments	X	
Verify channel s against assembly and Check connectors (intact & labeled)	X	
ATTACH TEMPERATURE LOGGER TO DUMMY / DOWNLOAD	X	X

* Items checked during calibration; these items need checked when the dummy is used without recalibration

Pre Test Inspection Completed By: J. Clarridge Date: 12/22/06

Post Test Inspection Completed By: J. Clarridge Date: 01/04/07

Appendix D

Test Equipment List and Calibration Information

Sign Convention
SAE J211 MAR95

Accelerometers:

+X: Forward
+Y: Rightward
+Z: Downward

Potentiometers:

+Chest longitudinal deflection: Outward
+Chest lateral deflection: Rightward
+Seat belt displacement: Outward
+Seat belt extension: Elongation
+Knee slider displacement: Distance between femur and tibia increased (in relation to a seated dummy)

Rotation potentiometers:

+About the X-axis: Left foot-eversion
Right foot-inversion
+About the Y-axis: Left/right foot-dorsiflexion
+About the Z-axis: Left foot-internal
Right foot-external

Load cells:

+Femur force: Tension
+Seat belt force: Tension
+Barrier force: Tension

Neck load cells:

+X force: Head pushed rearward
+Y force: Head pushed leftward
+Z force: Head pulled upward (tension on neck)
+X moment: Left ear rotating toward left shoulder
+Y moment: Chin rotating toward chest
+Z moment: Chin rotating toward left shoulder

Tibia load cells:

+X force: Ankle forward, knee rearward
+Y force: Ankle rightward, knee leftward
+Z force: Tension
+X moment: Bottom of tibia moving leftward
+Y moment: Bottom of tibia moving rearward

Sign Convention (Continued)
SAE J211 MAR95

<u>Lumbar load cells:</u>	+X force:	Chest rearward, pelvis forward
	+Y force:	Chest leftward, pelvis rightward
	+Z force:	Chest upward, pelvis downward
	+X moment:	Left shoulder toward left hip
	+Y moment:	Sternum toward front of legs
	+Z moment:	Right shoulder forward, left shoulder rearward

Frequency Response Classes
SAE J211 MAR95

<u>Typical Test Measurements</u>	<u>Channel Class</u>
Vehicle Structural Accelerations for use in:	
Total vehicle comparison	60
Collision simulation input	60
Component analysis	600
Integration for velocity or displacement	180
Barrier Face Forces	60
Belt Restraint System Loads	60
Anthropomorphic Test Device	
Head accelerations (linear and angular)	1000
Neck	
Forces	1000
Moments	600
Thorax	
Spine accelerations	180
Rib accelerations	1000
Sternum accelerations	1000
Deflections	600
Lumbar	
Forces	1000
Moments	1000
Pelvis	
Accelerations	1000
Forces	1000
Moments	1000
Femur/Knee/Tibia/Ankle	
Forces	600
Moments	600
Displacements	180
Sled Accelerations	60
Steering Column Loads	600
Head Form Accelerations	1000

The direction column on the following sheets describes the transducer output as mounted and wired in the test location. The polarity column indicates whether a polarity change occurred during data acquisition to conform to J211 MAR95. See Report Sign Convention sheet for description of data output as presented in the report: occasionally channels have been adjusted in post-acquisition processing to conform to J211 MAR95.

Channel Report Test Number 070103

Ref	Transducer ID	ISO Signal Identifier	Description	FScale	Units	DAS		Assembly
						Flip	Positive Polarity	
1	Trig D1	10ZERO000000VO0A	EVENT		1 Logic	+	Bipolar	
2	P46512	11HEADCG00SHACXA	Head Accel X	1000	g	+	Forward	1-059 SID/HIII ASTC.001
3	P49052	11HEADCG00SHACYA	Head Accel Y	1000	g	+	Rightward	1-059 SID/HIII ASTC.002
4	P49038	11HEADCG00SHACZA	Head Accel Z	1000	g	-	Upward	1-059 SID/HIII ASTC.003
5	P49030	11HEADCGRDSHACXA	Head Accel X Red	1000	g	+	Forward	1-059 SID/HIII ASTC.004
6	P49043	11HEADCGRDSHACYA	Head Accel Y Red	1000	g	+	Rightward	1-059 SID/HIII ASTC.005
7	P49039	11HEADCGRDSHACZA	Head Accel Z Red	1000	g	-	Upward	1-059 SID/HIII ASTC.006
8	1716A-1624-FX	11NECKUP00SHFOXA	Neck Force X	8896	N	-	Head forward, chest rearward	1-059 SID/HIII ASTC.007
9	1716A-1624-FY	11NECKUP00SHFOYA	Neck Force Y	8896	N	+	Head leftward, chest rightward	1-059 SID/HIII ASTC.008
10	1716A-1624-FZ	11NECKUP00SHFOZA	Neck Force Z	13344	N	+	Head upward, chest downward	1-059 SID/HIII ASTC.009
11	1716A-1624-MX	11NECKUP00SHMOXA	Neck Moment X	282	Nm	-	Right ear toward right shoulder	1-059 SID/HIII ASTC.010
12	1716A-1624-MY	11NECKUP00SHMOYA	Neck Moment Y	282	Nm	+	Chin toward sternum	1-059 SID/HIII ASTC.011
13	1716A-1624-MZ	11NECKUP00SHMOZA	Neck Moment Z	282	Nm	+	Chin toward left shoulder	1-059 SID/HIII ASTC.012
14	P44972	11RIBSLU00SHACYA	Left Upper Rib Y	800	g	+	Rightward	1-059 SID/HIII ASTC.013
15	P46514	11RIBSLURESHACYA	Left Upper Rid Red Y	800	g	+	Rightward	1-059 SID/HIII ASTC.014
16	p54294	11RIBSLL00SHACYA	Left Lower Rib Y	800	g	+	Rightward	1-059 SID/HIII ASTC.015
17	P44985	11RIBSLLRESHACYA	Left Lower Rib Red Y	800	g	+	Rightward	1-059 SID/HIII ASTC.016
18	P49055	11SPIN1200SHACYA	Lower Spine Y	400	g	-	Leftward	1-059 SID/HIII ASTC.017
19	P49046	11SPIN12RDSHACYA	Lower Spine Red Y	400	g	-	Leftward	1-059 SID/HIII ASTC.018
20	P49047	11PELVCG00SHACYA	Pelvis Accel Y	400	g	-	Leftward	1-059 SID/HIII ASTC.019
21	P45023	11PELVCGRDSHACYA	Pelvis Accel Red Y	400	g	-	Leftward	1-059 SID/HIII ASTC.020
22	P49045	14HEADCG00SHACXA	Head Accel X	1000	g	+	Forward	4-055 SID/HIII ASTC.001
23	P49057	14HEADCG00SHACYA	Head Accel Y	1000	g	+	Rightward	4-055 SID/HIII ASTC.002
24	P49037	14HEADCG00SHACZA	Head Accel Z	1000	g	-	Upward	4-055 SID/HIII ASTC.003
25	P49050	14HEADCGRDSHACXA	Head Accel X Red	1000	g	+	Forward	4-055 SID/HIII ASTC.004
26	P46511	14HEADCGRDSHACYA	Head Accel Y Red	1000	g	+	Rightward	4-055 SID/HIII ASTC.005
27	P49021	14HEADCGRDSHACZA	Head Accel Z Red	1000	g	-	Upward	4-055 SID/HIII ASTC.006
28	1716A-1634-FX	14NECKUP00SHFOXA	Neck Force X	8896	N	-	Head forward, chest rearward	4-055 SID/HIII ASTC.007
29	1716A-1634-FY	14NECKUP00SHFOYA	Neck Force Y	8896	N	+	Head leftward, chest rightward	4-055 SID/HIII ASTC.008
30	1716A-1634-FZ	14NECKUP00SHFOZA	Neck Force Z	13344	N	+	Head upward, chest downward	4-055 SID/HIII ASTC.009
31	1716A-1634-MX	14NECKUP00SHMOXA	Neck Moment X	282	Nm	-	Right ear toward right shoulder	4-055 SID/HIII ASTC.010
32	1716A-1634-MY	14NECKUP00SHMOYA	Neck Moment Y	282	Nm	+	Chin toward sternum	4-055 SID/HIII ASTC.011
33	1716A-1634-MZ	14NECKUP00SHMOZA	Neck Moment Z	282	Nm	+	Chin toward left shoulder	4-055 SID/HIII ASTC.012
34	P54124	14RIBSLU00SHACYA	Left Upper Rib Y	800	g	+	Rightward	4-055 SID/HIII ASTC.013

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070103

Channel Report Test Number 070103

Ref	Transducer ID	ISO Signal Identifier	Description	FScale	Units	DAS		Assembly
						Flip	Positive Polarity	
35	P54146	14RIBSLURESHACYA	Left Upper Rid Red Y	800	g	+	Rightward	4-055 SID/HIII ASTC.014
36	P54115	14RIBSLL00SHACYA	Left Lower Rib Y	800	g	+	Rightward	4-055 SID/HIII ASTC.015
37	P54155	14RIBSLLRESHACYA	Left Lower Rib Red Y	800	g	+	Rightward	4-055 SID/HIII ASTC.016
38	P54148	14SPIN1200SHACYA	Lower Spine Y	400	g	-	Leftward	4-055 SID/HIII ASTC.017
39	P54150	14SPIN12RDSHACYA	Lower Spine Red Y	400	g	-	Leftward	4-055 SID/HIII ASTC.018
40	P54198	14PELVCG00SHACYA	Pelvis Accel Y	400	g	-	Leftward	4-055 SID/HIII ASTC.019
41	P54147	14PELVCGRDSHACYA	Pelvis Accel Red Y	400	g	-	Leftward	4-055 SID/HIII ASTC.020
42	P46904	16SILBFR0000ACXA	RIGHT SIDE SILL AT FRONT SEAT (X) ACCELERATION VS TIME (#1)	400	g	+	Forward	
43	P49561	16SILBFR0000ACYA	RIGHT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME (#1)	1000	g	-	Leftward	
44	P48543	16SILBFR0000ACZA	RIGHT SIDE SILL AT FRONT SEAT (Z) ACCELERATION VS TIME (#1)	400	g	-	Upward	
45	P54192	16SILBRE0000ACXA	RIGHT SIDE SILL AT REAR SEAT (X) ACCELERATION VS TIME (#2)	400	g	+	Forward	
46	P54220	16SILBRE0000ACYA	RIGHT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME (#2)	1000	g	-	Leftward	
47	P46610	16SILBRE0000ACZA	RIGHT SIDE SILL AT REAR SEAT (Z) ACCELERATION VS TIME (#2)	400	g	-	Upward	
48	P50283	18FORA000000ACXA	REAR FLOORPAN ABOVE AXLE (X) ACCELERATION VS TIME (#3)	1000	g	+	Forward	
49	P50476	18FORA000000ACYA	REAR FLOORPAN ABOVE AXLE (Y) ACCELERATION VS TIME (#3)	1000	g	-	Leftward	
50	P50853	18FORA000000ACZA	REAR FLOORPAN ABOVE AXLE (Z) ACCELERATION VS TIME (#3)	1000	g	-	Upward	
51	P54333	14SILBFR0000ACYA	LEFT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME (#5)	1000	g	+	Rightward	
52	P50844	14SILBRE0000ACYA	LEFT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	1000	g	-	Leftward	
53	P50319	16VEHCRE0000ACYA	RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME (#7)	1500	g	-	Leftward	
54	p54288	11APILLO0000ACYA	LEFT LOWER A-POST (Y) ACCELERATION VS TIME (#14)	1500	g	-	Leftward	
55	P48628	11APILMI0000ACYA	LEFT MID A-POST (Y) ACCELERATION VS TIME (#15)	1500	g	-	Leftward	
56	P49699	14BPILLO0000ACYA	LEFT LOWER B-POST (Y) ACCELERATION VS TIME (#12)	1500	g	-	Leftward	
57	P50861	14BPILMI0000ACYA	LEFT MID B-POST (Y) ACCELERATION VS TIME (#13)	1500	g	-	Leftward	
58	p47394	11SETRFR0000ACYA	LEFT FRONT SEAT TRACK (Y) ACCELERATION VS TIME (#16)	1500	g	-	Leftward	
59	p48632	14SETRLERE00ACYA	LEFT REAR SEAT TRACK (Y) ACCELERATION VS TIME	1500	g	+	Rightward	
60	P54236	10VEHCCG0000ACXA	VEHICLE CENTER OF GRAVITY (X) ACCELERATION VS TIME (#18)	1000	g	+	Forward	
61	P46607	10VEHCCG0000ACYA	VEHICLE CENTER OF GRAVITY (Y) ACCELERATION VS TIME (#18)	1000	g	-	Leftward	
62	P54223	10VEHCCG0000ACZA	VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS TIME (#18)	1000	g	-	Upward	

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Ref	Transducer ID	ISO Signal Identifier	Description	FScale	Units	DAS	
						Flip	Positive Polarity
1	P50963	M0VEHCCG0000ACXA	MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME (#1)	600	g	+	Forward
2	P50843	M0VEHCCG0000ACYA	MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME(#1)	600	g	+	Righward
3	P48540	M0VEHCCG0000ACZA	MDB CENTER OF GRAVITY (Z) ACCELERATION VS TIME(#1)	600	g	-	Upward
4	p54295	M7FRAM000000ACXA	MDB REAR (X) ACCELERATION VS TIME (#2)	600	g	+	Forward
5	p54285	M7FRAM000000ACYA	MDB REAR (Y) ACCELERATION VS TIME (#2)	600	g	-	Leftward
6	Bit.00	M3CONT000000VO00	MDB RIGHT CONTACT SWITCH	1	Logic	+	Bipolar
7	Bit.01	M1CONT000000VO00	MDB LEFT CONTACT SWITCH	1	Logic	+	Bipolar

Command File Test Number 070103

Channel	ISO Mnemonic	Channel Title	Filter Class	Flip	Zero	Full Scale
1	11HEADCG00SHACXA	DRIVER HEAD X-AXIS ACCELERATION	1000	+	yes	1000
1A	11HEADCG00SHVEXA	DRIVER HEAD X-AXIS VELOCITY	180			
2	11HEADCG00SHACYA	DRIVER HEAD Y-AXIS ACCELERATION	1000	+	yes	1000
2A	11HEADCG00SHVEYA	DRIVER HEAD Y-AXIS VELOCITY	180			
3	11HEADCG00SHACZA	DRIVER HEAD Z-AXIS ACCELERATION	1000	+	yes	1000
3A	11HEADCG00SHVEZA	DRIVER HEAD Z-AXIS VELOCITY	180			
3B	11HEADCG00SHACRA	DRIVER HEAD RESULTANT ACCELERATION	1000			
4	11NECKUP00SHFOXA	DRIVER NECK X-AXIS SHEAR FORCE	1000	+	yes	8896
5	11NECKUP00SHFOYA	DRIVER NECK Y-AXIS SHEAR FORCE	1000	+	yes	8896
6	11NECKUP00SHFOZA	DRIVER NECK Z-AXIS AXIAL FORCE	1000	+	yes	13344
7	11NECKUP00SHMOXA	DRIVER NECK MOMENT ABOUT X AXIS	600	+	yes	282
8	11NECKUP00SHMOYA	DRIVER NECK MOMENT ABOUT Y AXIS	600	+	yes	282
9	11NECKUP00SHMOZA	DRIVER NECK MOMENT ABOUT Z AXIS	600	+	yes	282
10	11RIBSLU00SHACYA	DRIVER UPPER RIB Y-AXIS ACCELERATION	1000	+	yes	800
10A	11RIBSLU00SHVEYA	DRIVER UPPER RIB Y-AXIS VELOCITY	180			
11	11RIBSLL00SHACYA	DRIVER LOWER RIB Y-AXIS ACCELERATION	1000	+	yes	800
11A	11RIBSLL00SHVEYA	DRIVER LOWER RIB Y-AXIS VELOCITY	180			
12	11SPIN1200SHACYA	DRIVER LOWER SPINE Y-AXIS ACCELERATION	1000	+	yes	400
12A	11SPIN1200SHVEYA	DRIVER LOWER SPINE Y-AXIS VELOCITY	180			
13	11PELVCG00SHACYA	DRIVER PELVIS Y-AXIS ACCELERATION	1000	+	yes	400
13A	11PELVCG00SHVEYA	DRIVER PELVIS Y-AXIS VELOCITY	180			
14	14HEADCG00SHACXA	LEFT REAR PASSENGER HEAD X-AXIS ACCELERATION	1000	+	yes	1000
14A	14HEADCG00SHVEXA	LEFT REAR PASSENGER HEAD X-AXIS VELOCITY	180			
15	14HEADCG00SHACYA	LEFT REAR PASSENGER HEAD Y-AXIS ACCELERATION	1000	+	yes	1000
15A	14HEADCG00SHVEYA	LEFT REAR PASSENGER HEAD Y-AXIS VELOCITY	180			
16	14HEADCG00SHACZA	LEFT REAR PASSENGER HEAD Z-AXIS ACCELERATION	1000	+	yes	1000
16A	14HEADCG00SHVEZA	LEFT REAR PASSENGER HEAD Z-AXIS VELOCITY	180			
16B	14HEADCG00SHACRA	LEFT REAR PASSENGER HEAD RESULTANT ACCELERATION	1000			
17	14NECKUP00SHFOXA	LEFT REAR PASSENGER NECK X-AXIS SHEAR FORCE	1000	+	yes	8896
18	14NECKUP00SHFOYA	LEFT REAR PASSENGER NECK Y-AXIS SHEAR FORCE	1000	+	yes	8896
19	14NECKUP00SHFOZA	LEFT REAR PASSENGER NECK Z-AXIS AXIAL FORCE	1000	+	yes	13344
20	14NECKUP00SHMOXA	LEFT REAR PASSENGER NECK MOMENT ABOUT X AXIS	600	+	yes	282
21	14NECKUP00SHMOYA	LEFT REAR PASSENGER NECK MOMENT ABOUT Y AXIS	600	+	yes	282
22	14NECKUP00SHMOZA	LEFT REAR PASSENGER NECK MOMENT ABOUT Z AXIS	600	+	yes	282

Command File Test Number 070103

Channel	ISO Mnemonic	Channel Title	Filter Class	Flip	Zero	Full Scale
23	14RIBSLU00SHACYA	LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION	1000	+	yes	800
23A	14RIBSLU00SHVEYA	LEFT REAR PASSENGER UPPER RIB Y-AXIS VELOCITY	180			
24	14RIBSLL00SHACYA	LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION	1000	+	yes	800
24A	14RIBSLL00SHVEYA	LEFT REAR PASSENGER LOWER RIB Y-AXIS VELOCITY	180			
25	14SPIN1200SHACYA	LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION	1000	+	yes	400
25A	14SPIN1200SHVEYA	LEFT REAR PASSENGER LOWER SPINE Y-AXIS VELOCITY	180			
26	14PELVCG00SHACYA	LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION	1000	+	yes	400
26A	14PELVCG00SHVEYA	LEFT REAR PASSENGER PELVIS Y-AXIS VELOCITY	180			
27	11HEADCGRDSHACXA	DRIVER HEAD X-AXIS REDUNDANT ACCELERATION	1000	+	yes	1000
27A	11HEADCGRDSHVEXA	DRIVER HEAD X-AXIS REDUNDANT VELOCITY	180			
28	11HEADCGRDSHACYA	DRIVER HEAD Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	1000
28A	11HEADCGRDSHVEYA	DRIVER HEAD Y-AXIS REDUNDANT VELOCITY	180			
29	11HEADCGRDSHACZA	DRIVER HEAD Z-AXIS REDUNDANT ACCELERATION	1000	+	yes	1000
29A	11HEADCGRDSHVEZA	DRIVER HEAD Z-AXIS REDUNDANT VELOCITY	180			
29B	11HEADCGRDSHACRA	DRIVER HEAD RESULTANT REDUNDANT ACCELERATION	1000			
30	11RIBSLURESHACYA	DRIVER UPPER RIB Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	800
30A	11RIBSLURESHVEYA	DRIVER UPPER RIB Y-AXIS REDUNDANT VELOCITY	180			
31	11RIBSLLRESHACYA	DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	800
31A	11RIBSLLRESHVEYA	DRIVER LOWER RIB Y-AXIS REDUNDANT VELOCITY	180			
32	11SPIN12RDSHACYA	DRIVER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	400
32A	11SPIN12RDSHVEYA	DRIVER LOWER SPINE Y-AXIS REDUNDANT VELOCITY	180			
33	14HEADCGRDSHACXA	LEFT REAR PASSENGER HEAD X-AXIS REDUNDANT ACCELERATION	1000	+	yes	1000
33A	14HEADCGRDSHVEXA	LEFT REAR PASSENGER HEAD X-AXIS REDUNDANT VELOCITY	180			
34	14HEADCGRDSHACYA	LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	1000
34A	14HEADCGRDSHVEYA	LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT VELOCITY	180			
35	14HEADCGRDSHACZA	LEFT REAR PASSENGER HEAD Z-AXIS REDUNDANT ACCELERATION	1000	+	yes	1000
35A	14HEADCGRDSHVEZA	LEFT REAR PASSENGER HEAD Z-AXIS REDUNDANT VELOCITY	180			
35B	14HEADCGRDSHACRA	LEFT REAR PASSENGER HEAD RESULTANT ACCELERATION	1000			
36	14RIBSLURESHACYA	LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	800
36A	14RIBSLURESHVEYA	LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT VELOCITY	180			
37	14RIBSLLRESHACYA	LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	800
37A	14RIBSLLRESHVEYA	LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT VELOCITY	180			
38	14SPIN12RDSHACYA	LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION	1000	+	yes	400
38A	14SPIN12RDSHVEYA	LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT VELOCITY	180			

Command File Test Number 070103

Channel	ISO Mnemonic	Channel Title	Filter Class	Flip	Zero	Full Scale
39	16SILBFR0000ACXA	RIGHT SIDE SILL AT FRONT SEAT X-AXIS ACCELERATION	60	+	yes	400
39A	16SILBFR0000VEXA	RIGHT SIDE SILL AT FRONT SEAT X-AXIS VELOCITY	180			
40	16SILBFR0000ACYA	RIGHT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION	60	+	yes	1000
40A	16SILBFR0000VEYA	RIGHT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY	180			
41	16SILBFR0000ACZA	RIGHT SIDE SILL AT FRONT SEAT Z-AXIS ACCELERATION	60	+	yes	400
41A	16SILBFR0000VEZA	RIGHT SIDE SILL AT FRONT SEAT Z-AXIS VELOCITY	180			
41B	16SILBFR0000ACRA	RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION	60			
42	16SILBRE0000ACXA	RIGHT SIDE SILL AT REAR SEAT X-AXIS ACCELERATION	60	+	yes	400
42A	16SILBRE0000VEXA	RIGHT SIDE SILL AT REAR SEAT X-AXIS VELOCITY	180			
43	16SILBRE0000ACYA	RIGHT SIDE SILL AT REAR SEAT Y-AXIS ACCELERATION	60	+	yes	1000
43A	16SILBRE0000VEYA	RIGHT SIDE SILL AT REAR SEAT Y-AXIS VELOCITY	180			
44	16SILBRE0000ACZA	RIGHT SIDE SILL AT REAR SEAT Z-AXIS ACCELERATION	60	+	yes	400
44A	16SILBRE0000VEZA	RIGHT SIDE SILL AT REAR SEAT Z-AXIS VELOCITY	180			
44B	16SILBRE0000ACRA	RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION	60			
45	18FORA000000ACXA	REAR FLOORPAN ABOVE AXLE X-AXIS ACCELERATION	60	+	yes	1000
45A	18FORA000000VEXA	REAR FLOORPAN ABOVE AXLE X-AXIS VELOCITY	180			
46	18FORA000000ACYA	REAR FLOORPAN ABOVE AXLE Y-AXIS ACCELERATION	60	+	yes	1000
46A	18FORA000000VEYA	REAR FLOORPAN ABOVE AXLE Y-AXIS VELOCITY	180			
47	18FORA000000ACZA	REAR FLOORPAN ABOVE AXLE Z-AXIS ACCELERATION	60	+	yes	1000
47A	18FORA000000VEZA	REAR FLOORPAN ABOVE AXLE Z-AXIS VELOCITY	180			
47B	18FORA000000ACRA	REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION	60			
48	14SILBFR0000ACYA	LEFT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION	60	+	yes	1000
48A	14SILBFR0000VEYA	LEFT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY	180			
48B	14SILBFR0000DCYA	LEFT SIDE SILL AT FRONT SEAT Y-AXIS DISPLACEMENT	180			
49	14SILBRE0000ACYA	LEFT SIDE SILL AT REAR SEAT Y-AXIS ACCELERATION	60	+	yes	1000
49A	14SILBRE0000VEYA	LEFT SIDE SILL AT REAR SEAT Y-AXIS VELOCITY	180			
49B	14SILBRE0000DCYA	LEFT SIDE SILL AT REAR SEAT Y-AXIS DISPLACEMENT	180			
50	16VEHCRE0000ACYA	RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS ACCELERATION	60	+	yes	1500
50A	16VEHCRE0000VEYA	RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS VELOCITY	180			
50B	16VEHCRE0000DCYA	RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS DISPLACEMENT	180			
51	11APILO0000ACYA	LEFT LOWER A-POST Y-AXIS ACCELERATION	60	+	yes	1500
51A	11APILO0000VEYA	LEFT LOWER A-POST Y-AXIS VELOCITY	180			
52	11APILMI0000ACYA	LEFT MIDDLE A-POST Y-AXIS ACCELERATION	60	+	yes	1500
52A	11APILMI0000VEYA	LEFT MIDDLE A-POST Y-AXIS VELOCITY	180			

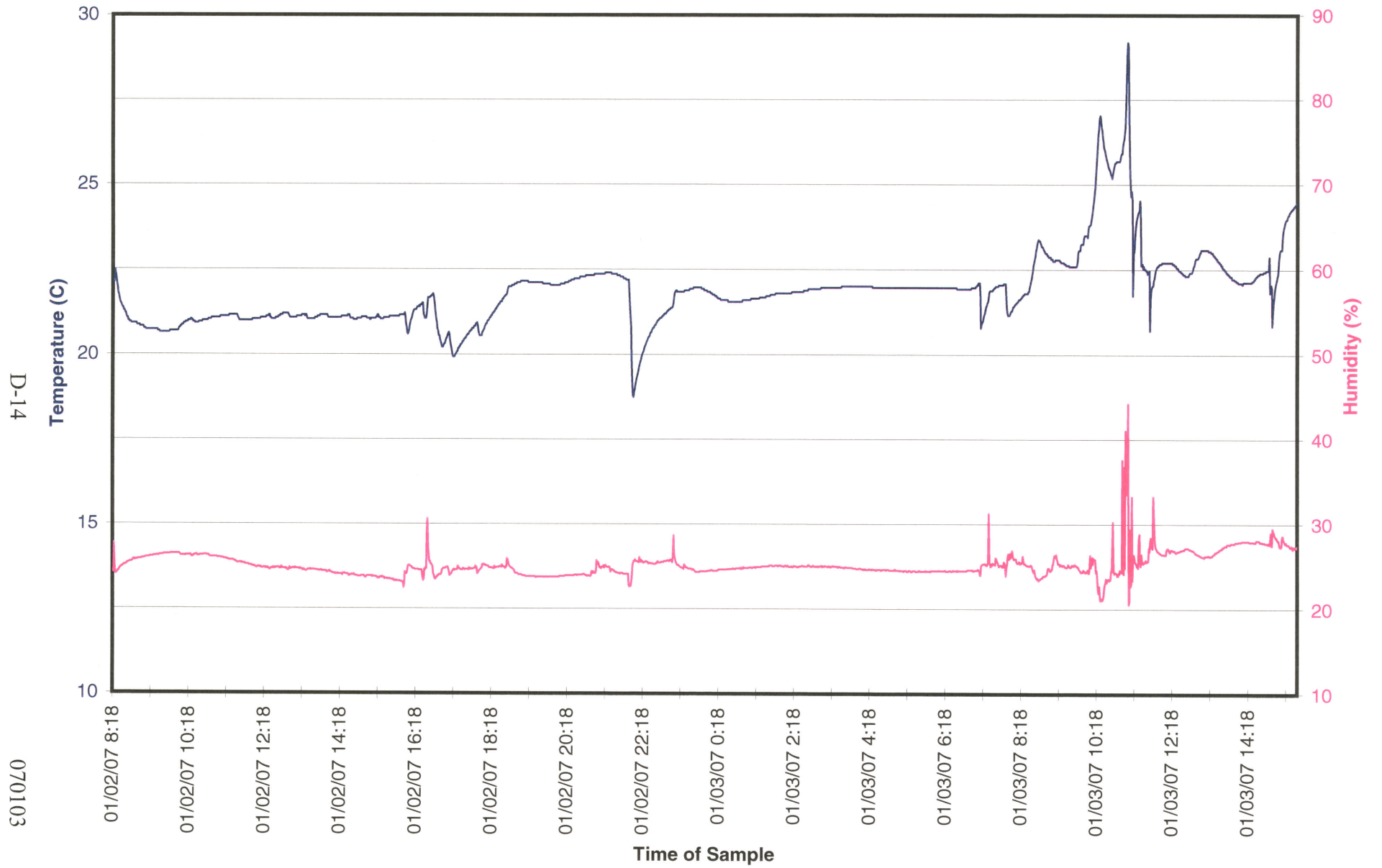
Command File Test Number 070103

Channel	ISO Mnemonic	Channel Title	Filter Class	Flip	Zero	Full Scale
53	14BPILLO0000ACYA	LEFT LOWER B-POST Y-AXIS ACCELERATION	60	+	yes	1500
53A	14BPILLO0000VEYA	LEFT LOWER B-POST Y-AXIS VELOCITY	180			
54	14BPILMI0000ACYA	LEFT MIDDLE B-POST Y-AXIS ACCELERATION	60	+	yes	1500
54A	14BPILMI0000VEYA	LEFT MIDDLE B-POST Y-AXIS VELOCITY	180			
55	11SETRFR0000ACYA	LEFT FRONT SEAT TRACK Y-AXIS ACCELERATION	60	+	yes	1500
55A	11SETRFR0000VEYA	LEFT FRONT SEAT TRACK Y-AXIS VELOCITY	180			
56	14SETRLERE00ACYA	LEFT REAR SEAT TRACK Y-AXIS ACCELERATION	60	+	yes	1500
56A	14SETRLERE00VEYA	LEFT REAR SEAT TRACK Y-AXIS VELOCITY	180			
57	10VEHCCG0000ACXA	VEHICLE CENTER OF GRAVITY X-AXIS ACCELERATION	60	+	yes	1000
57A	10VEHCCG0000VEXA	VEHICLE CENTER OF GRAVITY X-AXIS VELOCITY	180			
58	10VEHCCG0000ACYA	VEHICLE CENTER OF GRAVITY Y-AXIS ACCELERATION	60	+	yes	1000
58A	10VEHCCG0000VEYA	VEHICLE CENTER OF GRAVITY Y-AXIS VELOCITY	180			
59	10VEHCCG0000ACZA	VEHICLE CENTER OF GRAVITY Z-AXIS ACCELERATION	60	+	yes	1000
59A	10VEHCCG0000VEZA	VEHICLE CENTER OF GRAVITY Z-AXIS VELOCITY	180			
59B	10VEHCCG0000ACRA	VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION	60			
60	M0VEHCCG0000ACXA	MDB CENTER OF GRAVITY X-AXIS ACCELERATION	60	+	yes	600
60A	M0VEHCCG0000VEXA	MDB CENTER OF GRAVITY X-AXIS VELOCITY	180			
61	M0VEHCCG0000ACYA	MDB CENTER OF GRAVITY Y-AXIS ACCELERATION	60	+	yes	600
61A	M0VEHCCG0000VEYA	MDB CENTER OF GRAVITY Y-AXIS VELOCITY	180			
62	M0VEHCCG0000ACZA	MDB CENTER OF GRAVITY Z-AXIS ACCELERATION	60	+	yes	600
62A	M0VEHCCG0000VEZA	MDB CENTER OF GRAVITY Z-AXIS VELOCITY	180			
62B	M0VEHCCG0000ACRA	MDB CENTER OF GRAVITY RESULTANT ACCELERATION	60			
63	M7FRAM000000ACXA	MDB REAR X-AXIS ACCELERATION	60	+	yes	600
63A	M7FRAM000000VEXA	MDB REAR X-AXIS VELOCITY	180			
64	M7FRAM000000ACYA	MDB REAR Y-AXIS ACCELERATION	60	+	yes	600
64A	M7FRAM000000VEYA	MDB REAR Y-AXIS VELOCITY	180			
65	M3CONT000000VO00	MDB RIGHT CONTACT SWITCH	0	+	no	1
66	M1CONT000000VO00	MDB LEFT CONTACT SWITCH	0	+	no	1
66A	11RIBSLU00SHACYA	DRIVER UPPER RIB Y-AXIS ACCELERATION	100	+	yes	800
66B	11RIBSLL00SHACYA	DRIVER LOWER RIB Y-AXIS ACCELERATION	100	+	yes	800
66C	11SPIN1200SHACYA	DRIVER LOWER SPINE Y-AXIS ACCELERATION	100	+	yes	400
66D	11PELVCG00SHACYA	DRIVER PELVIS Y-AXIS ACCELERATION	100	+	yes	400
66E	14RIBSLU00SHACYA	LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION	100	+	yes	800
66F	14RIBSLL00SHACYA	LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION	100	+	yes	800

Command File Test Number 070103

Channel	ISO Mnemonic	Channel Title	Filter	Class	Flip	Zero	Full Scale
66G	14SPIN1200SHACYA	LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION	100	+	yes		400
66H	14PELVCG00SHACYA	LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION	100	+	yes		400
66I	11RIBSLURESHACYA	DRIVER UPPER RIB Y-AXIS REDUNDANT ACCELERATION	100	+	yes		800
66J	11RIBSLLRESHACYA	DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION	100	+	yes		800
66K	11SPIN12RDSHACYA	DRIVER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION	100	+	yes		400
66L	14RIBSLURESHACYA	LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION	100	+	yes		800
66M	14RIBSLLRESHACYA	LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION	100	+	yes		800
66N	14SPIN12RDSHACYA	LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION	100	+	yes		400

C70202





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VEHICLE DESCRIPTION

EDGE

2007 FORD EDGE-SEL FWD
5-PASSENGER
3.5L V6 ENGINE
AUTOMATIC OVERDRIVE TRANS

VIN 2FMDK38C67B

A33861

EXTERIOR
REDFIRE CLEARCOAT METALLIC
INTERIOR
CAMEL CLOTH

STANDARD EQUIPMENT INCLUDED AT NO EXTRA CHARGE

EXTERIOR

- 17" PAINTED ALUMINUM WHLS
- DUAL CHROMED EXHAUST TIPS
- DUAL POWER MIRRORS
- FOG LAMPS
- REAR SPOILER, BODY COLOR
- SEL BADGE

INTERIOR

- ACCESSORY TURN-OFF DELAY
- AIR CONDITIONING - MANUAL
- AM/FM IN-DASH CD6/MP3/4SPK
- AUXILIARY AUDIO INPUT JACK
- CNTR CONSOLE W/GEAR SHIFT
- MESSAGE CENTER
- PREM CLTH BUCKET FRNT STS
- 6-WAY POWER DRIVER'S SEAT
- PREM CLTH 60/40 REAR BENCH
- FOLD FLAT W/MAN RECLINE
- STEER WHL W/SPD & AUD CTRL
- TELESCOPE STEERING COLUMN

FUNCTIONAL

- 19.0 GALLON FUEL TANK
- CONVENIENCE GROUP
- POWER POINTS (4)
- POWER STEERING

SAFETY/SECURITY

- ADVANCETRAC W/RSC
- ANTI-LOCK BRAKING SYSTEM
- CHILD SEAT TETHER ANCHOR
- OCCUPANT CLASSIFICATION SYS
- PERSONAL SAFETY SYSTEM
- SAFETY CANOPY
- SECURILOCK/PASS ANTITHEFT
- SIDE AIRBAGS
- SIDE IMPACT DOOR BEAMS
- TIRE PRESSURE MONITOR SYS

WARRANTY

- 3YR/36,000 BUMPER / BUMPER
- 5YR/60,000 POWERTRAIN
- 5YR/60,000 ROADSIDE ASSIST

PRICE INFORMATION

Manufacturer's
Suggested Retail Price

STANDARD VEHICLE PRICE **\$27,315.00**

INCLUDED ON THIS VEHICLE

- REDUNDANT AUDIO CONTROLS
- AUTOLAMPS W/WIPER ACTIVATION
- ENTRY KEYPAD
- AUTODIM RR VIEW MIRROR

OPTIONAL EQUIPMENT

P245/60R18 BSW A/S TIRES	NO CHARGE
ALL WEATHER RUBBER MATS	55.00
CALIFORNIA/GREEN STATES EMISS	NO CHARGE
18" PAINTED ALUMINUM WHEELS	395.00
ROOF RAILS-BLACK	95.00
REVERSE SENSING SYSTEM	245.00
FRONT LICENSE PLATE BRACKET	NO CHARGE

TOTAL VEHICLE & OPTIONS **28,105.00**
DESTINATION & DELIVERY **675.00**

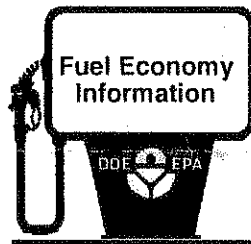
Compare this vehicle to others in the **FREE FUEL ECONOMY GUIDE** available at the dealer.

CITY MPG

18

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results reported to EPA indicate that the majority of vehicles with these estimates will achieve between 15 and 21 mpg in the city and between 21 and 29 mpg on the highway.

Fuel Economy
Information



For more information see
WWW.FUELECONOMY.GOV

2007 EDGE FWD,
3.5 LITER ENGINE,
4V DOHC V6, FUEL INJECTION,
CATALYST,
6-SPEED AUTOMATIC
TRANSMISSION

Estimated Annual Fuel Cost: \$1892

HIGHWAY MPG

25

For Comparison Shopping
all vehicles classified as
SPECIAL PURPOSE
have been issued mileage ratings
ranging from 09 to 36 mpg city
and 13 to 32 mpg highway.



This vehicle qualifies for auto insurance discounts, call 1-866-367-3131 or visit www.fordautoinsurance.com for availability in your state.

TROPHY CASE

-Best-in-Class horsepower and torque - 265 HP & 250 Ft. Lbs of torque (1)

-Class Exclusive Standard Audio Input Jack

-Most Flexible Center Console in class

"The all-new Ford Edge... hits the bull's-eye for the crossover market"
The Toronto Star, 2006

Mark Phelan (Detroit Free Press) named the Edge as one of five "hits" at the 2006 North American International Auto Show

(1) Class is Medium Crossover Vehicles with 6 cylinder engines standard

TOTAL MSRP

\$28,780.00

2FMDK38C67BA33861



Ford Extended Service Plan is the ONLY service contract backed by Ford Motor Company and



CERTIFICATE OF CONFORMITY

Certificate No. **29536**
Serial No. **GJ321**

Cellbond Composites Ltd
5 Stukeley Business Centre
Blackstone Road
Huntingdon
Cambridgeshire
PE29 6EF
United Kingdom

Product Description	FMVSS 214 - 1750x740x550mm Spec with 1.6 3/8 5052 Painted Grey
Cellbond Part No.	70NHTSASIUS G

telephone
+44 (0) 1480 435302
telefax
+44 (0) 1480 450181
email
sales@cellbond.com
website
www.cellbond.com

	Test Results	GR No.	Blk No.
1	19909-8	CHC13030076GI	N/A
2	19948-8	CHC0509013GC	N/A

Declaration.

The above moving deformable barrier has been manufactured in accordance with the provisions of FMVSS 214.

Additional Information...

company registration
England 1944904

registered office
5 Stukeley Business Centre
Blackstone Road
Huntingdon
Cambridgeshire
PE29 6EF

Cellbond Offices
United Kingdom
United States of America





NHTSA / IIHS DEFORMABLE SIDE IMPACT BARRIER
ALUMINIUM HONEYCOMB CERTIFICATION
STATIC TEST RESULTS

MAIN BLOCK
Core: 1.6 3/8 5052

Required Crush Strength
42.5 PSI to 47.5 PSI

Test No: 19909-8

GR No: CHC13030076GI
Block No: N/A

	Crush Strength (PSI)			RESULT
	0.25 to 0.38 inch	0.38 to 0.52 inch	0.52 to 0.65 inch	
Sample* 1	44.996	46.165	46.309	PASS
Sample 2	46.633	46.753	47.365	PASS
Sample 3	45.109	45.366	44.764	PASS
Sample 4	43.393	42.744	42.737	PASS
Sample 5	44.128	43.322	43.578	PASS
Sample 6	44.757	44.989	45.135	PASS
Sample 7	44.386	44.127	44.597	PASS
Sample 8	44.783	45.514	45.161	PASS

Seven out of the eight samples must fulfil the crush strength
requirement in order to pass the block certification

*Sample size and location as per R94.

RESULT: PASSED

NHTSA / IIHS DEFORMABLE SIDE IMPACT BARRIER
MAIN BLOCK

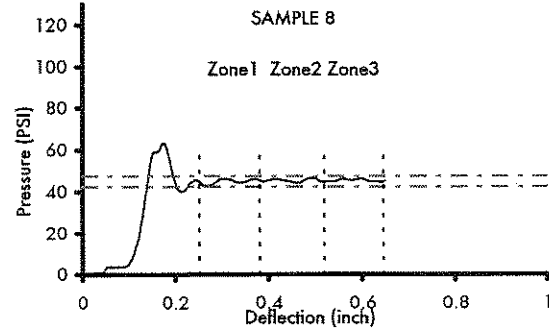
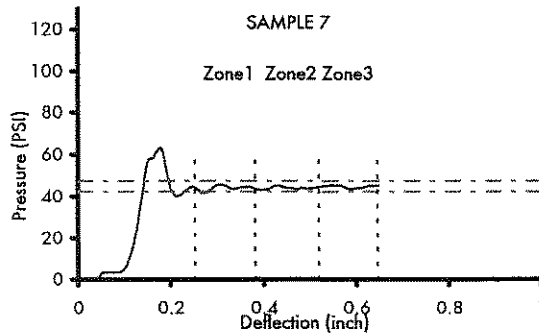
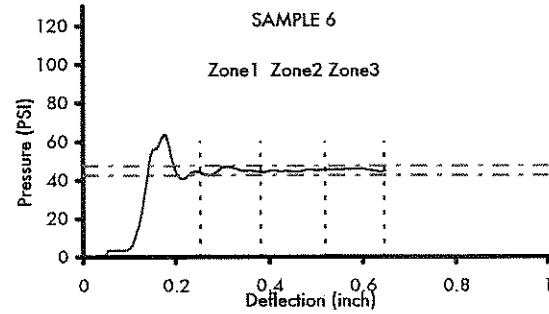
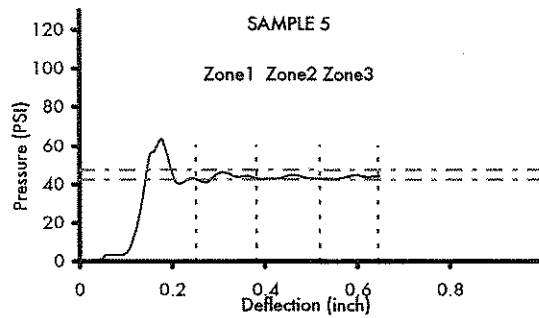
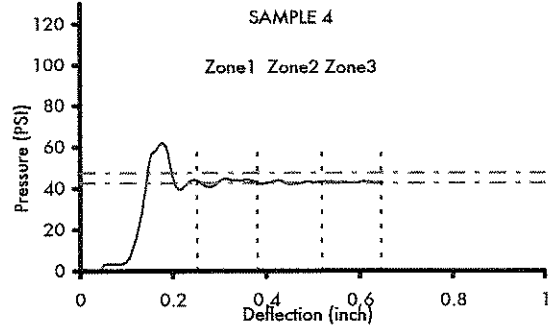
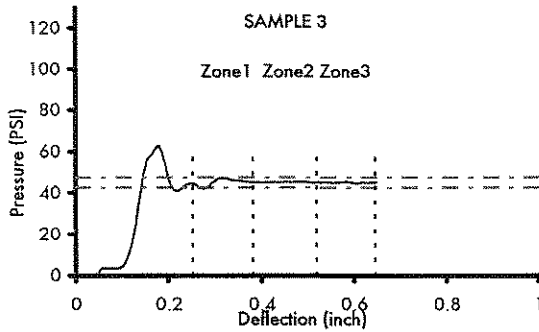
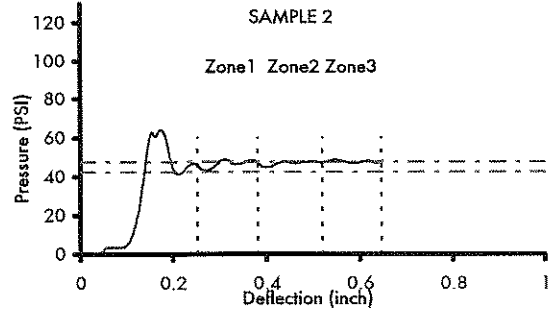
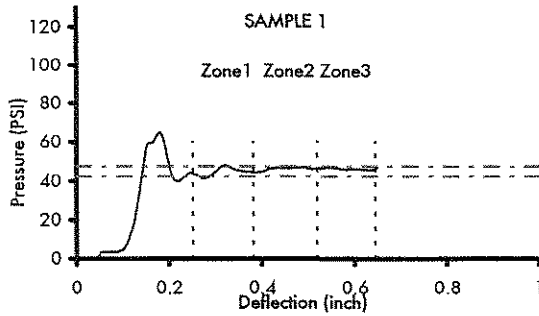
Honeycomb Type: 1.6 3/8 5052
Higher Acceptable Crush Strength Limit: 47.5 PSI
Lower Acceptable Crush Strength Limit: 42.5 PSI

Section 1: 0.25 - 0.38 inch
Section 2: 0.38 - 0.52 inch
Section 3: 0.52 - 0.65 inch
Speed: 0.25 inch/min

Test No: 19909-8

GR No: CHC13030076GI

Block No: N/A





NHTSA / IIHS DEFORMABLE SIDE IMPACT BARRIER
ALUMINIUM HONEYCOMB CERTIFICATION
STATIC TEST RESULTS

BUMPER

Core: 5.2 1/4 3003

Required Crush Strength
230 PSI to 260 PSI

Test No: 19948-8

GR No: CHC0509013GC

Block No: N/A

	Crush Strength (PSI)			RESULT
	0.25 to 0.38	0.38 to 0.52	0.52 to 0.65	
Sample* 1	245.89	245.38	240.73	PASS
Sample 2	242.66	241.62	233.67	PASS
Sample 3	238.02	235.74	232.87	PASS
Sample 4	251.63	247.22	248.33	PASS
Sample 5	252.68	251.12	248.94	PASS
Sample 6	244.70	244.90	241.09	PASS
Sample 7	246.81	243.04	239.05	PASS
Sample 8	230.86	230.64	225.64	FAIL

Seven out of the eight samples must fulfil the crush strength
requirement in order to pass the block certification

*Sample size and location as per R94.

RESULT: PASSED

NHTSA / IIHS DEFORMABLE SIDE IMPACT BARRIER BUMPER

Honeycomb Type: 5.2 1/4 3003
Higher Acceptable Crush Strength Limit: 260 PSI
Lower Acceptable Crush Strength Limit: 230 PSI

Section 1: 0.25 - 0.38 inch
Section 2: 0.38 - 0.52 inch
Section 3: 0.52 - 0.65 inch
Speed: 0.25 inch/min

Test No: 19948-8

GR No: CHC0509013GC

Block No: N/A

