

REPORT NUMBER KAR21003-10

**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**NISSAN MOTORS
2001 NISSAN PATHFINDER
4X4 SUV
NHTSA NUMBER: M15205**

**PREPARED BY:
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FEBRUARY 16, 2001

FINAL REPORT

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16. Abstract A 55/28 km/h 90 deg. Moving Deformable Barrier Side Impact NCAP Test was conducted on the subject 2001 Nissan Pathfinder 4x4 SUV in accordance with the specifications of the Office of Crash Worthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at KARCO Engineering laboratories in Adelanto, California, on February 1, 2001. The impact velocity of the Moving Deformable Barrier was 61.79 km/h, and the outside ambient temperature at the struck (driver's) side of the vehicle was 10.5 deg. C. The target vehicle's maximum post test static crush was 343 mm located at level 3 . The test vehicle's occupant performance is as follows: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 40%;">Measurement Description</th> <th style="width: 20%;">Driver SID</th> <th style="width: 20%;">Passenger SID</th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) G's</td> <td style="text-align: center;">29.4</td> <td style="text-align: center;">26.0</td> </tr> <tr> <td>Left Lower Rib (LLR) G's</td> <td style="text-align: center;">30.8</td> <td style="text-align: center;">24.8</td> </tr> <tr> <td>Lower Spine (T₁₂) G's</td> <td style="text-align: center;">49.1</td> <td style="text-align: center;">22.0</td> </tr> <tr> <td>Thoracic Trauma Index (TTI) G's</td> <td style="text-align: center;">40</td> <td style="text-align: center;">24</td> </tr> <tr> <td>Pelvis (PEV) G's</td> <td style="text-align: center;">52</td> <td style="text-align: center;">29</td> </tr> </tbody> </table>				Measurement Description	Driver SID	Passenger SID	Left Upper Rib (LUR) G's	29.4	26.0	Left Lower Rib (LLR) G's	30.8	24.8	Lower Spine (T ₁₂) G's	49.1	22.0	Thoracic Trauma Index (TTI) G's	40	24	Pelvis (PEV) G's	52	29
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SECTION 1

PURPOSE and TEST PROCEDURE

1.1 PURPOSE

This Side Impact NCAP test is conducted as part of the FY' 2001 test program sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract No. DTNH22-99-D-02041. The purpose of this test is to generate comparative side impact data on a 2001 Nissan Pathfinder 4x4 SUV manufactured by Nissan Motors.

1.2 TEST PROCEDURE

The side impact test was conducted in accordance with the current National Highway Traffic Safety Administration (NHTSA), Office of Crashworthiness Standards (OCS), laboratory test procedure NCAP Side Impact Testing, dated July 1997 and the corresponding KARCO Engineering Test Procedure KTP-214D, dated November 18, 1998. The procedures for receiving, inspection, testing, and reporting of test results are described in the test procedures and are not repeated in this report.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

2.1 SUMMARY OF SIDE IMPACT NCAP TEST

A model year 2001 Nissan Pathfinder 4x4 SUV was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 61.79 km/h. The specified impact velocity range is from 61.1 to 62.7 km/h. The test (target) vehicle was stationary and positioned 63° to the line of forward motion. The weight of the vehicle as tested was 2223 kg. and the test weight of the MDB was 1361 kg. The test was conducted at KARCO Engineering in Adelanto, California, on February 1, 2001.

One (1) real-time motion picture camera and ten (10) high-speed motion picture cameras were used to document the impact event. The pre-test and post-test conditions were recorded by one (1) real-time motion picture camera. Camera locations and pertinent camera information is documented in the data sheets. Pre- and post-test photographs of the vehicle and SID can be found in Appendix A. Two 50th percentile adult male Side Impact Dummy's (SID's) were placed in the driver's and left rear passenger designated seating positions according to the test procedure. Each SID is instrumented with contact switches on the pelvis and thorax, and eleven accelerometers in the following locations:

- Left Upper Rib (LUR) uni-axial accelerometer (Y-axis primary and redundant)
- Left Lower Rib (LLR) uni-axial accelerometer (Y-axis primary and redundant)
- Lower Thoracic Spine (T12) uni-axial accelerometer (Y-axis primary and redundant)
- Pelvic (PEV) section uni-axial accelerometer (Y-axis primary and redundant)
- Head Center of Gravity (CG) tri-axial accelerometers (X, Y, and Z axes)

The test vehicle was instrumented with twenty-five (25) structural accelerometers and the MDB was instrumented with five (5) accelerometers and a one (1) contact switch on the right bumper to compare left side to right side bumper impact timing. All data channels were recorded with a fully self contained on-board Test Data Acquisition System (TDAS). The data was digitally sampled at 10,000 samples per second and processed per Appendix V of the Test Procedure.

2.2 GENERAL COMMENTS

The test vehicle sustained a maximum static crush of 343 mm at level 3, 1350mm rearward of the left vertical impact point. The driver SID, Serial No. 275 and the passenger SID, Serial No. 274 were calibrated just prior to this test. The SID injury criteria is summarized as follows:

Measurement	Units	Driver	Passenger
Thoracic Trauma Index (TTI)	G's	40	24
Peak Pelvic G's (PEV)	G's	52	29

Tests summaries and post-test observations are presented in Section 3. The vehicle, camera, and occupant measurements are presented in Section 4. Appendix A contains the still photograph prints. Appendix B contains the driver and passenger SID's, vehicle, and MDB response data traces. Appendix C contains the SID's Configuration and performance verification data. Appendix D contains the test equipment information.

SECTION 3
SIDE IMPACT DUMMY (SID) AND VEHICLE TEST DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No. M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	Std Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	mile/h	km/h	1.609
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.573
Pressure	Tire Pressures	lbf/in ²	kPa	7.0
Volume	Liquid	gal	liter	3.785
Temperature	General Use	°F	°C	=(tf -32)/1.8
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf/ft	Nm	1.355

* Based on the Recommended Practice in SAE J916, May 85

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M15205
 Test Date: 02/01/01

TEST VEHICLE INFORMATION

Make	Nissan
Model	Pathfinder
Body Style	4x4 SUV
NHTSA No.	M15205
VIN	JN8DR07Y21W506905
Color	Black
Delivery Date	12/6/00
Odometer Reading (mile)	190
Dealer	Antelope Valley Nissan
Transmission	5-Speed Manual
Final Drive	4WD
Number of Cylinders	6
Engine Displacement (L)	3.5
Engine Placement	Longitudinal

TEST VEHICLE OPTIONS

Driver Airbag	Yes
Passenger Airbag	Yes
Power Windows	Yes
Power Steering	Yes
Power Door Locks	Yes
Tilt Wheel	Yes
Air Conditioning	Yes
Power Brakes	Yes
Disc Brakes, Front	Yes
Disc Brakes, Rear	No
Anti-lock Brakes	Yes
AM/FM/Cassette	Yes
Anti-Theft System	Yes
Cruise Control	Yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Nissan Motor Co., LTD.	GVWR (kg)	2404
Date of Manufacture	March-00	GAWR Front (kg)	1202
		GAWR Rear (kg)	1293

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	180	180
Cold Pressure (kPa)	180	180
Recommend Tire Size	P255/65/R16	P255/65/R16
Tire Size on Vehicle	P255/65/R16	P255/65/R16
Tire Manufacturer	Dunlop	Dunlop

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Split Bench	Bench	None	
Number of Occupants	2	3	N/A	5
Capacity Wt. (VCW) (kg)				475
Cargo Weight (RCLW) (kg)				134

DATA SHEET NO. 1...(continued)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M15205
 Test Date: 02/01/01

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	518	455		537	581	
Right	kg	512	444		538	567	
Ratio	%	53.4	46.6		48.4	51.6	
Totals	kg	1030	899	1929	1075	1148	2223

TARGET TEST WEIGHT CALCULATION*

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1929
Weight of 2 P572F Side Impact Dummies	kg	161.5
Rated Cargo/Luggage Weight (RCLW)	kg	134
Calculated Vehicle Target Weight (TVTW)	kg	2225

*Actual As Tested Weight (ATW) will be TVTW -5/-10 kg

TEST VEHICLE ATTITUDES AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	822	830	795	804	1258
As Tested	mm	813	818	746	757	1394
Fully Loaded	mm	815	828	742	757	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel base	mm	2700
Total Vehicle Length at Left Side	mm	3383
Total Vehicle Length at Centerline	mm	4700
Total Vehicle Length at Right Side	mm	3405
Weight of Ballast In Cargo Area	kg	149
Amount of Stoddard Solvent in Fuel Tank	Liters	73.5

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Test Vehicle Wheel base	mm	2700
Target Impact Point Aft of Front Axle	mm	446
Actual Impact Point Aft of Front Axle	mm	453

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No. M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

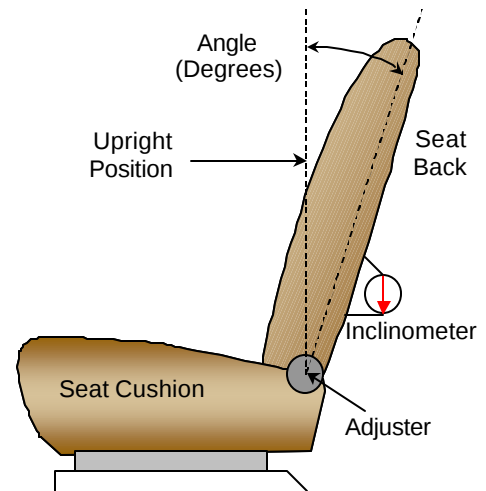
NOMINAL DESIGN RIDING POSITION

The driver's seat back is positioned to the manufacturers designated angle. The procedure for the seat is as follows:

A slit is cut into fabric of the seat at the outboard edge, approximately 10-13 inches above the pivot point to expose the frame of the seat. An inclinometer is firmly placed against the flat portion of the frame surface and the seat back is adjusted to the manufacturers designated angle.

Driver seat back angle: 17° with a seated dummy

Rear seat back angle: 24.7° with a seated dummy



FRONT SEAT ASSEMBLY

SEAT FORE/AFT POSITIONS

The driver's seat is adjustable. The fore/aft is set to the middle position.

Driver seat fore/aft total travel: 20 detents

Rear seat fore/aft total travel: None, fixed

Driver seat fore/aft position: Seat set at 11th detent

Rear seat fore/aft position: Seat is fixed

SEAT BELT UPPER ANCHORAGE

The driver's seat is equipped with an adjustable upper "D" ring anchorage; it is placed in the manufacture's nominal position. The rear seat-anchor is fixed; no adjustment is possible.

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No. M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

FUEL TANK CAPACITY DATA

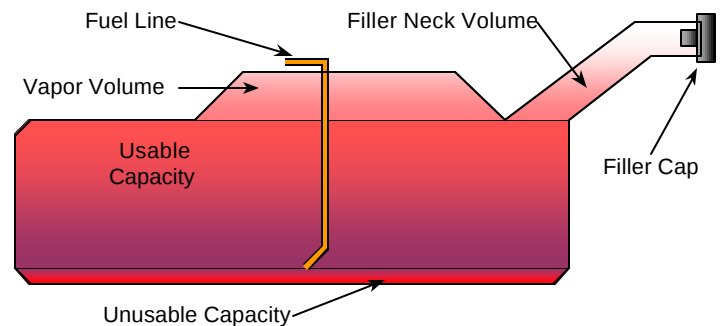
The "Usable Capacity" of the standard equipment fuel tank is: 79.1 liters

The "Usable Capacity" of any optional equipment fuel tank is: N/A liters

92-94% of "Usable Capacity" for certification to FMVSS 301 requirement: 72.7 to 74.3 liters

Actual amount of Stoddard solvent added to vehicle for certification test: 73.5 liters

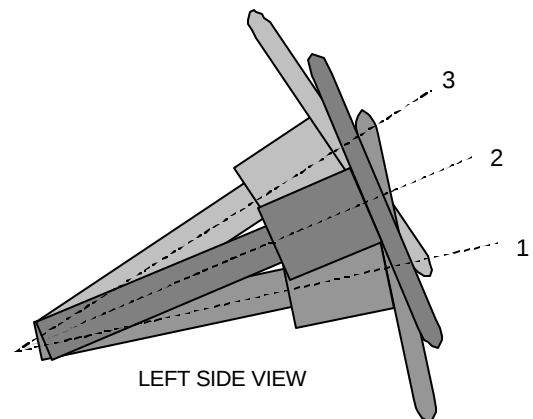
The test vehicle is equipped with an electric fuel pump. The fuel pump will operate for approximately three (3) seconds with the ignition in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender.



VEHICLE FUEL TANK ASSEMBLY

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes, when it is moved through its full range of motion. An aluminum plate is placed across the rim of the steering wheel, an inclinometer is placed onto the plate and the angle is measured. The tested vehicle has its steering column set at position 2 as indicated in the drawing at right and the angle below. The steering column is also equipped with telescoping adjustment set to the middle position of total travel.



STEERING COLUMN ASSEMBLY

Lowermost, position 1: 24°

Geometric center, position 2: 25.5°

Uppermost, position 3: 27°

DATA SHEET NO. 2
TEST VEHICLE SUMMARY OF RESULTS

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M15205
Test Date: 02/01/01

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	518	455		536	579	
Right	kg	512	444		537	566	
Weight Ratio	%	53.4	46.6		48.4	51.6	
Totals	kg	1030	899	1929	1073	1145	2218

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	316	381
Level 2	Occupant H-Point	mm	336	710
Level 3	Mid Door	mm	343	723
Level 4	Window Sill	mm	222	1026
Level 5	Window Top	mm	34	1572
N/A	Maximum Penetration	mm	343	

INSTRUMENTATION

Driver SID Accelerometers	11
Passenger SID Accelerometers	11
Vehicle Structure Accelerometers	25
MDB Accelerometers	5
Total	52

16mm MOVIE COVERAGE

High Speed, Vehicle On-Board	3
High Speed, Off-Board	5
High Speed, MDB On-Board	2
Real Time, Panning	1
Total	11

DATA SHEET NO. 3
MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M15205
 Test Date: 02/01/01

MDB SPECIFICATIONS (mm)

Measurement Description	Length
Overall Width of Framework Carriage	1252
Overall Length Including Honeycomb Face	4115
Wheel base of Framework Carriage	2590
C.G. Location aft of Front Axle	1127

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	384	308	
Right	kg	385	284	
Ratio	%	56.5	43.5	
Totals	kg	769	592	1361

SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	61.79
Trap No. 2 Velocity (Redn.)	km/h	61.1 to 62.7	62.2
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	89.5

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

Vertical Location			From Centerline		Max Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	800	Right	225
B	Top of Bumper	533	800	Right	157
C	Mid Level	686	800	Right	164
D	Top of Stack	813	800	Right	184

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	2
High Speed Cameras	2

**DATA SHEET NO. 4
POST TEST OBSERVATIONS**

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M15205
Test Date: 02/01/01

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat SID	Rear Seat SID
Dummy Type / Serial No.	P572F, SID / No. 275	P572F, SID / No. 274
Head Contact	No Contact	C-Pillar
Upper Torso Contact	Window/Panel	Door Panel
Lower Torso Contact	Door Panel	Seat/Door Panel
Left Knee Contact	Door Panel	Door Panel
Right Knee Contact	Knee	Knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	Remained closed inoperable	Remained closed inoperable
Right Side Door Opening	Remained closed operable	Remained closed operable
Seat Movement	None	None
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	Pillars pushed inward with no apparent failure
Sill Separation	No Apparent Visible Failure
Windshield Damage	Glazing Cracks on Struck Side Only
Window Damage	Both Left Side Windows Remained Intact
Other Notable Effects	No significant items to note.

AIR BAG DEPLOYMENT

	Driver	Front Passenger	Rear Passenger
Front	No	No	N/A
Side	N/A	N/A	N/A

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	7 (right)
Vertical Offset	mm	+/- 20	18 (below)

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5
SID INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

THORAX AND PELVIS PEAK ACCELERATIONS, PRIMARY (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	29.4	54.4	-5.8	93.9	26.0	71.2	-0.8	175.3
Lower Rib (LLR)	Y	G's	30.8	33.6	-5.5	93.1	24.8	61.5	-4.7	82.3
Lower Spine (T ₁₂)	Y	G's	49.1	35.5	-13.7	65.8	22.0	58.9	-14.1	79.4
Pelvis (PEV)	Y	G's	52.2	37.1	-9.9	65.9	29.4	43.3	-14.5	87.1

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, PRIMARY (FIR 100 Filtered)

Location	Driver				Passenger			
	LLR	T ₁₂	TTI(g)	PEV(g)	LUR	T ₁₂	TTI(g)	PEV(g)
Primary Rib, Spine, and Pelvis	30.801	49.144	40	52	26.029	22.023	24	29

THORAX AND PELVIS PEAK ACCELERATIONS, REDUNDANT (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	29.7	54.5	-6.0	94.2	25.5	71.5	-1.0	175.3
Lower Rib (LLR)	Y	G's	29.9	33.7	-5.7	93.3	24.6	61.9	-4.5	82.6
Lower Spine (T ₁₂)	Y	G's	49.4	35.5	-13.0	65.8	21.6	59.3	-13.9	79.4
Pelvis (PEV)	Y	G's	52.0	37.2	-9.9	65.6	29.6	43.5	-14.2	87.1

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, REDUNDANT (FIR 100 Filtered)

Location	Driver				Passenger			
	LLR	T ₁₂	TTI(g)	PEV(g)	LUR	T ₁₂	TTI(g)	PEV(g)
Redundant Rib, Spine, and Pelvis	29.918	49.381	40	52	25.542	21.639	24	30

HEAD CG PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	6.5	24.2	-16.9	96.6	4.4	103.3	-19.5	86.8
Head CG	Y	G's	10.2	93.8	-4.7	36.8	68.1	69.6	-10.2	57.8
Head CG	Z	G's	28.6	68.5	-6.2	30.6	44.8	66.2	-33.8	85.8
Head CG Resultant	N/A	G's	32.7	68.5			78.6	66.6		

HEAD INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG	63.3	62.0	97.9	19.9	284.5	65.1	72.6	67.5

Positive Acceleration Polarities: Longitudinal (X) = Forward
 (Conforms to SAE J211) Lateral (Y) = Right
 Vertical (Z) = Down

DATA SHEET NO. 6

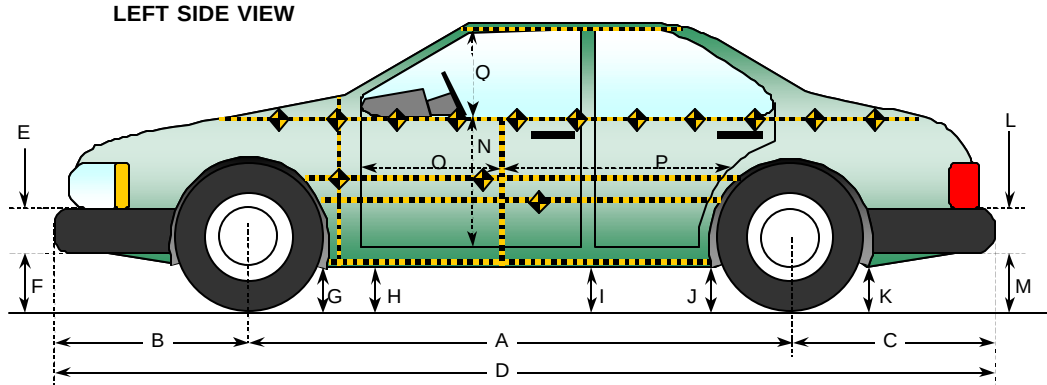
VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01



All Measurements in mm

Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2700	2693	7
B	Front Axle To FSOV	860	793	67
C	Rear Axle to RSOV	1139	1123	16
D	Total Length at Centerline	4700	4600	100
E	Front Bumper Thickness	372	372	0
F	Front Bumper Bottom to Ground	406	435	-29
G	Sill Height at Front Wheel Well	328	398	-70
H	Sill Height at Front Door Leading Edge	328	398	-70
I	Sill Height at "B" Pillar	302	357	-55
J1	Sill Height at Rear Wheel Well	303	366	-63
J2	Pinch Weld Height at Rear Wheel Well	320	369	-49
K	Sill Height aft of Rear Wheel Well	344	349	-5
L	Rear Bumper Thickness	225	225	0
M	Rear Bumper Bottom to Ground	405	396	9
N	Sill Height to Window Bottom Sill	650	644	6
O	Front Door Leading Edge to Impact CL	745	745	0
P	Rear Door Trailing Edge to Impact CL	1420	1395	25
Q	Front Window Opening	466	460	6
R	Right Side Length	3405	3428	-23
S	Left Side Length	3383	3340	43
T	Vehicle Width at "B" Post	1738	1543	195

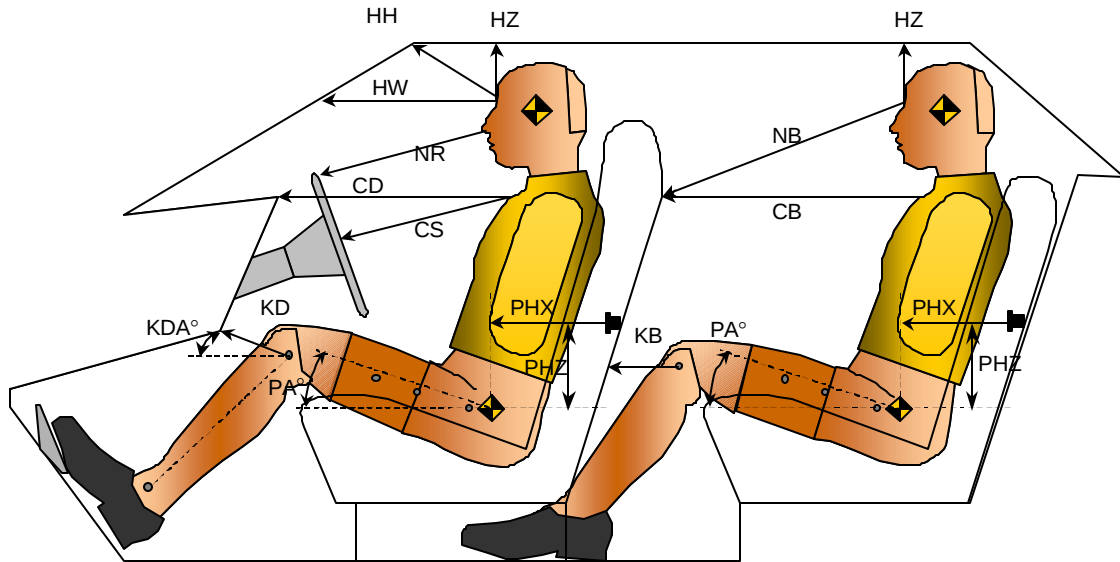
DATA SHEET NO. 7
SID LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

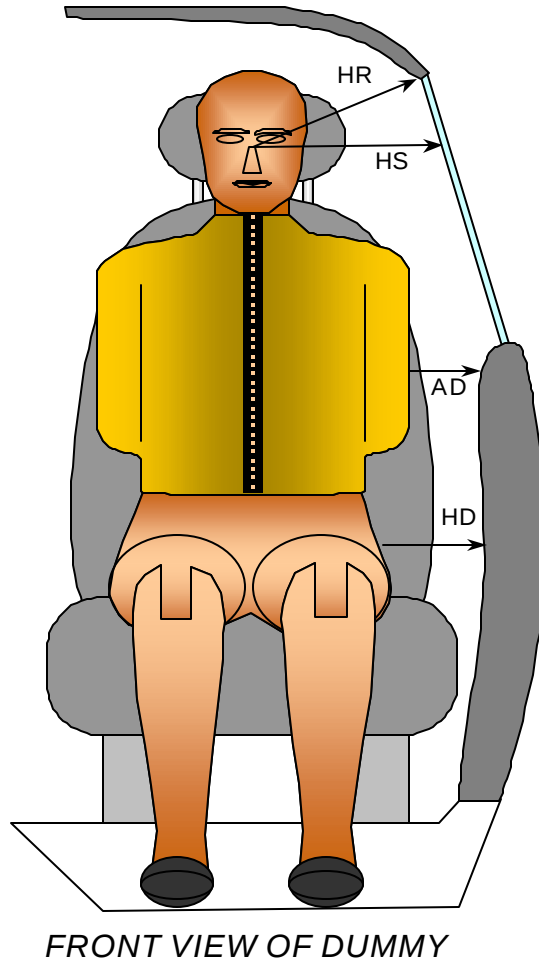


Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	432	14		
HW		Head to Windshield	605			
HZ	HZ	Head to Roof	160	90	80	90
NR	NB	Nose to Rim/Nose to Seatback	490	14	629	23
CD	CB	Chest to Dash or Seatback	560	2	554	4
CS		Chest to Steering Wheel	335	15		
KDL	KBL	Left Knee to Dash or Seatback	160	26	259	
KDR	KBR	Right Knee to Dash or Seatback	152		265	
PA	PA	Pelvic Angle		23.5		23
PHX	PHX	H-Point to Striker (X-Axis)	220		260	
PHZ	PHZ	H-Point to Striker (Z-Axis)	89		230	

DATA SHEET NO. 8
SID LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M15205
 Test Date: 02/01/01



Code	Measurement Description	Units	Driver	Passenger
HR	Head to Side Header	mm	212	254
HS	Head to Side Window	mm	305	356
AD	Arm to Door	mm	171	123
HD	H-Point to Door	mm	103	175

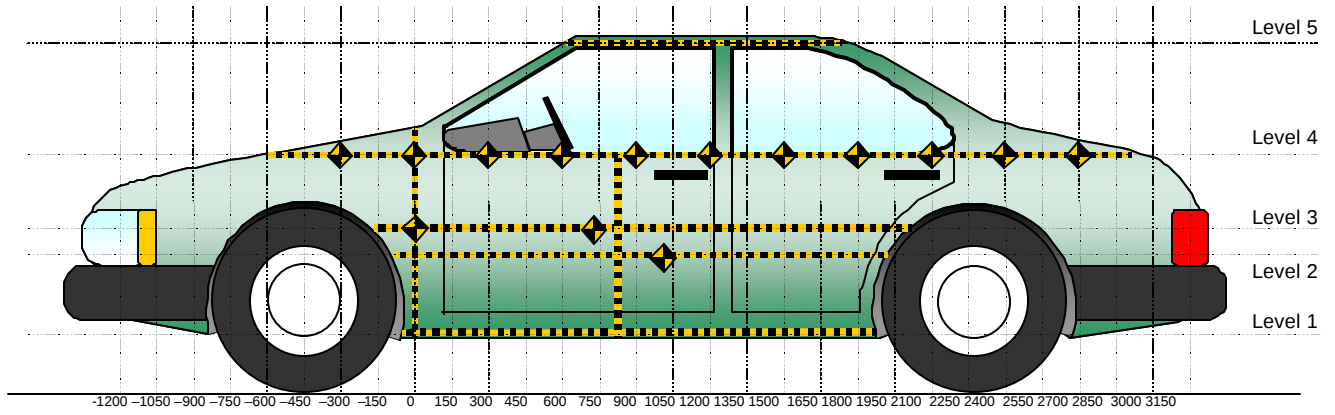
DATA SHEET NO. 9
VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01



All Measurements Shown in mm

LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.

Measurements taken 900mm right of impact reference.

All measurements below in mm.

Level	Measurement Description	Height Above Ground
5	Window Top	1572
4	Window Sill	1026
3	Mid Door	723
2	Occupant H-Point	710
1	Sill Top	381

DATA SHEET NO. 10 - VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

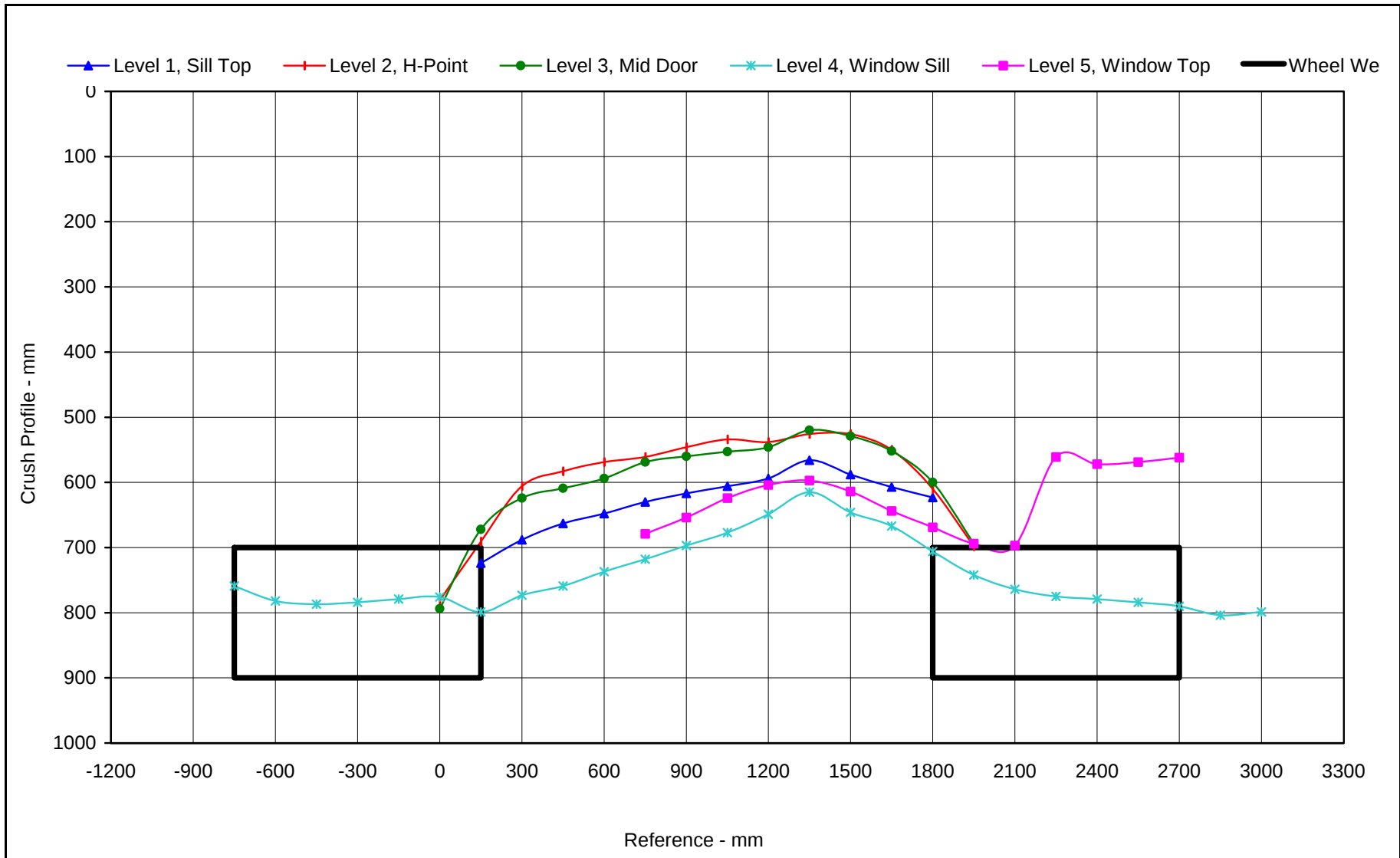
Test Date: 2/1/01

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750				784					759					25	
-600				808					782					26	
-450				814					787					27	
-300				819					784					35	
-150				824					779					45	
0		871	872	830			781	794	776			90	78	54	
150	888	864	865	832		724	691	672	799		164	173	193	33	
300	881	863	864	832		688	606	624	773		193	257	240	59	
450	881	863	864	833		663	583	609	759		218	280	255	74	
600	883	863	864	833		648	569	594	737		235	294	270	96	
750	883	864	865	834	596	630	561	569	718	679	253	303	296	116	-83
900	883	864	865	834	604	617	546	560	697	654	266	318	305	137	-50
1050	883	863	864	835	607	606	534	553	677	624	277	329	311	158	-17
1200	883	862	863	836	609	594	538	546	649	604	289	324	317	187	5
1350	882	862	863	837	606	566	526	520	615	597	316	336	343	222	9
1500	882	862	863	837	606	588	526	529	646	614	294	336	334	191	-8
1650	882	862	863	837	604	607	550	552	667	644	275	312	311	170	-40
1800	880	859	860	836	603	623	610	600	706	669	257	249	260	130	-66
1950		865	864	837	599		698	694	742	694		167	170	95	-95
2100				836	601				764	697				72	-96
2250				836	595				775	561				61	34
2400				834	594				779	572				55	22
2550				830	591				784	569				46	22
2700				829	588				790	562				39	26
2850				825	576				804	559				21	
3000				815					799					16	

Pre-Test and Post-Test dimensions are actual distance from centerline of test vehicle.

DATA SHEET NO. 10...(continued)

18



Maximum Crush, Level 1: 316 mm at 1350 mm
 Maximum Crush, Level 2: 336 mm at 1350 mm
 Maximum Crush, Level 3: 343 mm at 1350 mm
 Maximum Crush, Level 4: 222 mm at 1350 mm
 Maximum Crush, Level 5: 34 mm at 2250 mm

Test Program: 55/28 km/h 90° Side Impact NCAP No.: M15205
 Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
 Test Date: 02/01/01



KAR21003-10

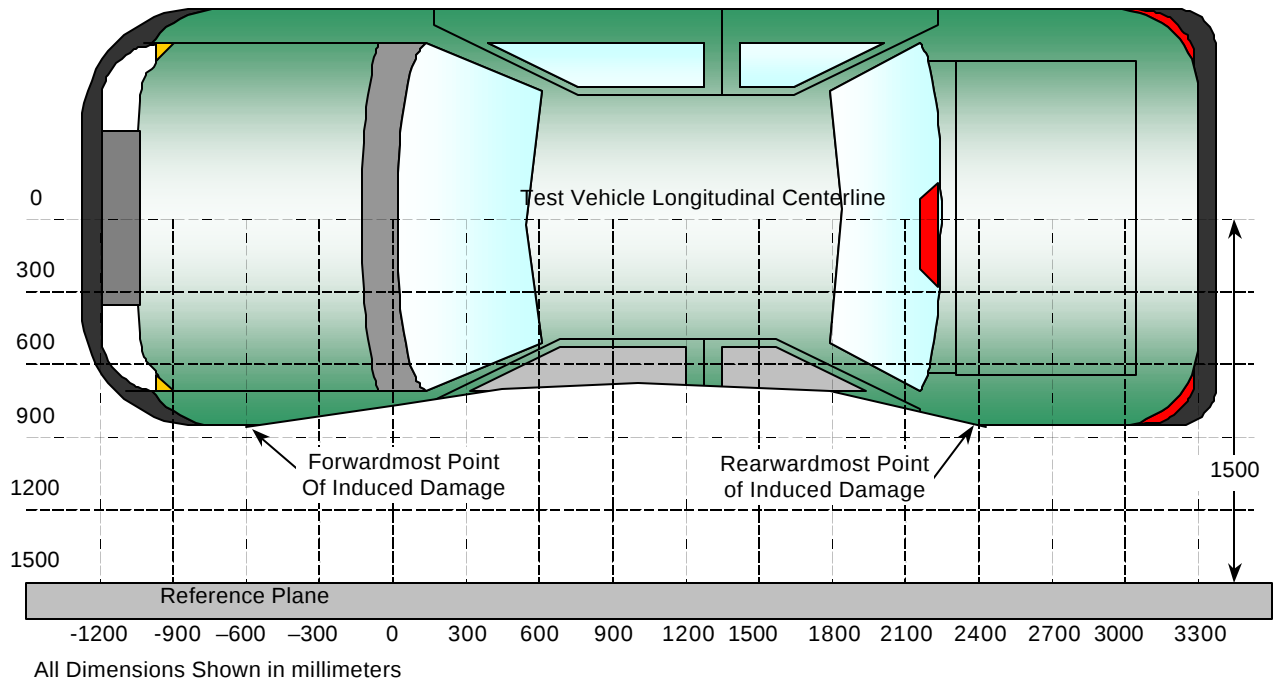
DATA SHEET NO. 11
VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01



TOP VIEW

Damage Profile Distances

DPD	Distance From Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	-750	4	784	759	25
2	0	2	871	781	90
3	750	2	864	561	303
4	1500	2	862	526	336
5	2250	4	836	775	61
6	3000	4	815	799	16

Pre-Test and Post-Test measurements are distance from vehicle centerline.

DATA SHEET NO. 12

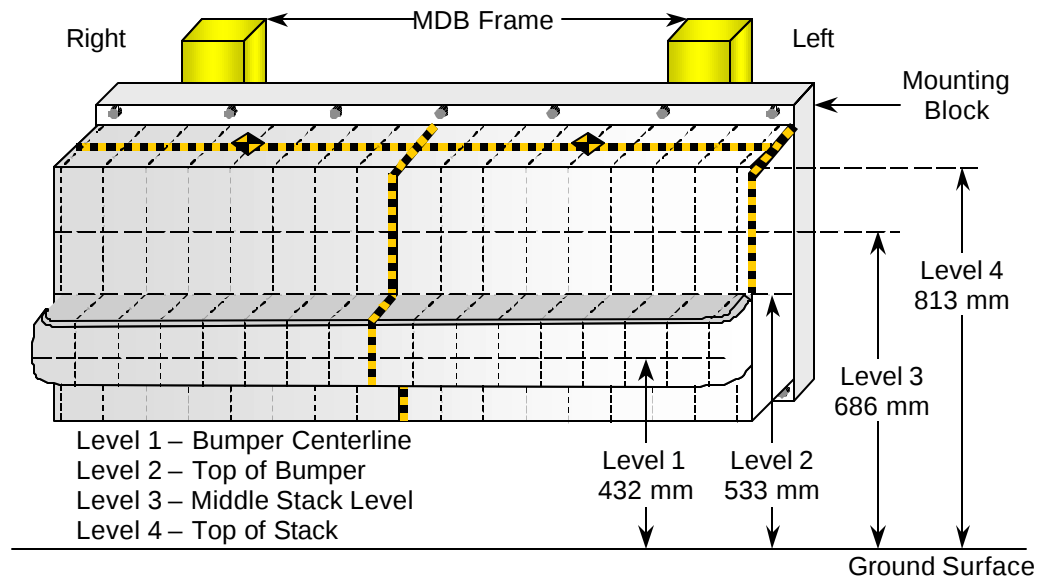
DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01



DEFORMABLE BARRIER STATIC CRUSH

Stack	Distance Right of Center								C _L	Distance Left of Center							
Level	800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800
1	170	146	123	101	90	91	99	12	111	116	124	131	139	148	164	188	225
2	135	112	87	57	59	67	70	73	80	88	95	102	108	116	124	139	157
3	114	89	64	40	34	39	40	32	30	34	42	49	54	61	78	97	164
4	134	102	77	59	48	39	34	39	49	60	73	87	103	122	142	162	184

All Dimensions in mm

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

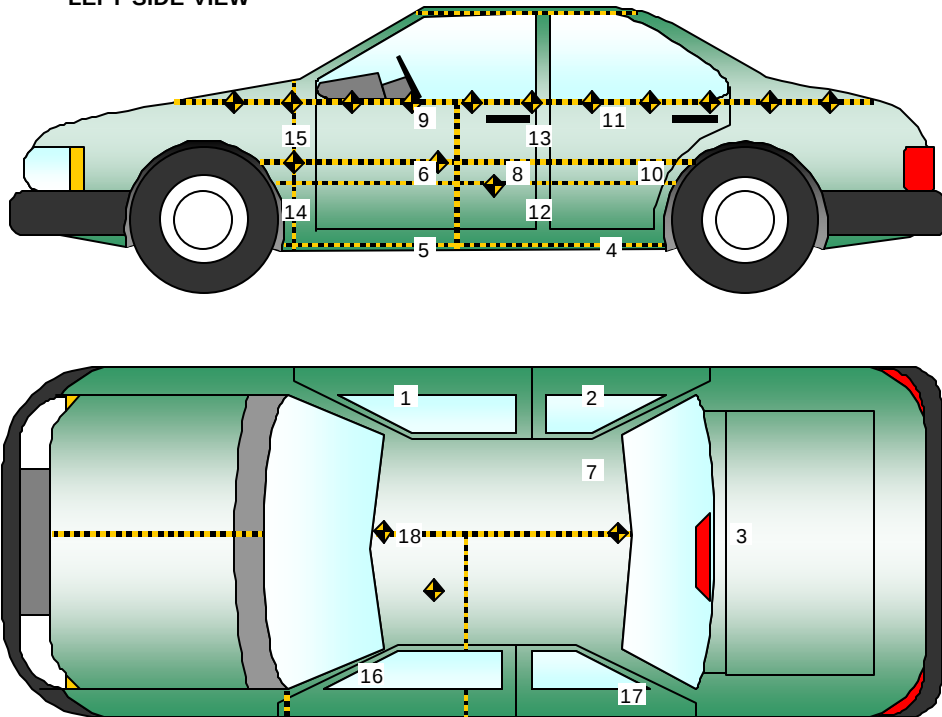
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

LEFT SIDE VIEW



No.	Location
1	Right Sill at Front Seat
2	Right Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Sill at Rear Door
5	Left Sill at Front Door
6	Left Front Door Centerline
7	Right Rear Occupant Compartment
8	Left Front Door Mid-Rear
9	Left Front Door Upper Centerline

No.	Location
10	Left Rear Door Mid-Rear
11	Left Rear Door Upper Centerline
12	Left Lower B-Post
13	Left Middle B-Post
14	Left Lower A-Post
15	Left Middle A-Post
16	Front Seat Track
17	Rear Seat Track or Structure
18	Vehicle CG

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	Right Sill at Front Seat	2955	685	430	X	1.9	71.8	-7.0	16.3
					Y	32.6	15.5	-2.7	101.7
					Z	3.8	102.7	-8.7	15.8
					RES	34.3	15.6		
2	Right Sill at Rear Seat	2055	685	410	X	2.5	70.6	-5.5	16.5
					Y	22.0	16.4	-3.6	75.3
					Z	4.4	112.2	-5.2	18.4
					RES	23.0	16.4		
3	Rear Floorpan Above Axle	950	-130	720	X	1.7	99.5	-4.1	21.7
					Y	16.1	29.9	-3.0	81.0
					Z	7.0	18.5	-5.2	71.4
					RES	16.3	29.3		
4	Left Sill at Rear Door	1755	-670	360	Y	101.3	14.8	-19.6	27.5
5	Left Sill at Front Door	2555	-670	390	Y	98.3	13.3	-42.3	25.0
6	Front Door Centerline	2915	755	790	Y	177.7	11.1	-71.1	24.8
7	Rear Occupant Compartment	2325	380	470	Y	26.1	15.9	-3.5	71.8
8	Front Door Mid-Rear	3385	-755	740	Y	218.8	10.0	-60.0	33.3
9	Front Door Upper Centerline	2705	-765	980	Y	118.2	16.0	-94.2	30.6
10	Rear Door Mid-Rear	1495	-735	900	Y	129.3	18.6	-65.4	33.0
11	Rear Door Upper Centerline	1665	-765	990	Y	111.9	19.0	-61.3	33.3
12	B-Post Lower	2205	-720	640	Y	212.4	9.9	-48.7	27.4
13	B-Post Middle	2205	-720	850	Y	178.6	10.3	-36.5	28.9
14	A-Post Lower	3995	-830	710	Y	49.4	4.9	-13.1	35.8
15	A-Post Middle	3995	-830	920	Y	29.6	9.8	-9.3	40.2
16	Front Seat Track	2755	-630	550	Y	62.3	14.6	-24.7	26.2
17	Rear Seat Structure				Y				
18	Vehicle CG	2105	0	570	X	9.7	17.1	-8.0	24.1
					Y	18.8	24.0	-1.7	178.6
					Z	13.6	65.2	-10.9	8.8
					RES	21.4	24.3		

**

** Not installed

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

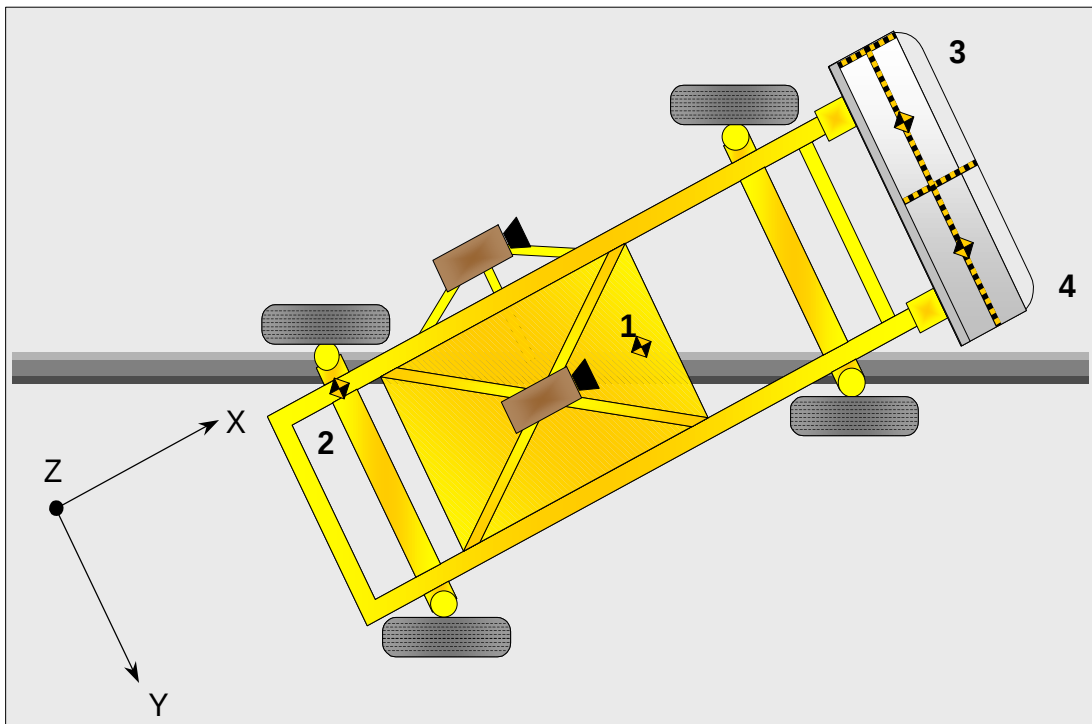
MDB ACCELEROMETER PEAK DATA AND LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	MDB CG	-1195	0	430	X	3.1	108.1	-23.0	41.8
					Y	5.2	176.9	-8.4	45.7
					Z	14.6	188.4	-17.1	149.7
					RES	24.8	41.6		
2	MDB Rear	-2642	-593	608	X	4.6	104.6	-24.2	41.3
					Y	5.3	107.0	-7.3	26.3

Reference Points X - MDB Front Axle Y - MDB Centerline Z - Ground Plane

MDB BUMPER CONTACT SWITCH DATA

Loc. No.	Contact Switch Location	Units	Peak and 50% Crossing Point			
			Max	Time	50%	Time
3	MDB Left Bumper (T=0)	% F.S	100.0	0.0	0.0	0.0
4	MDB Right Bumper	% F.S.	105.0	35.1	52.5	7.4



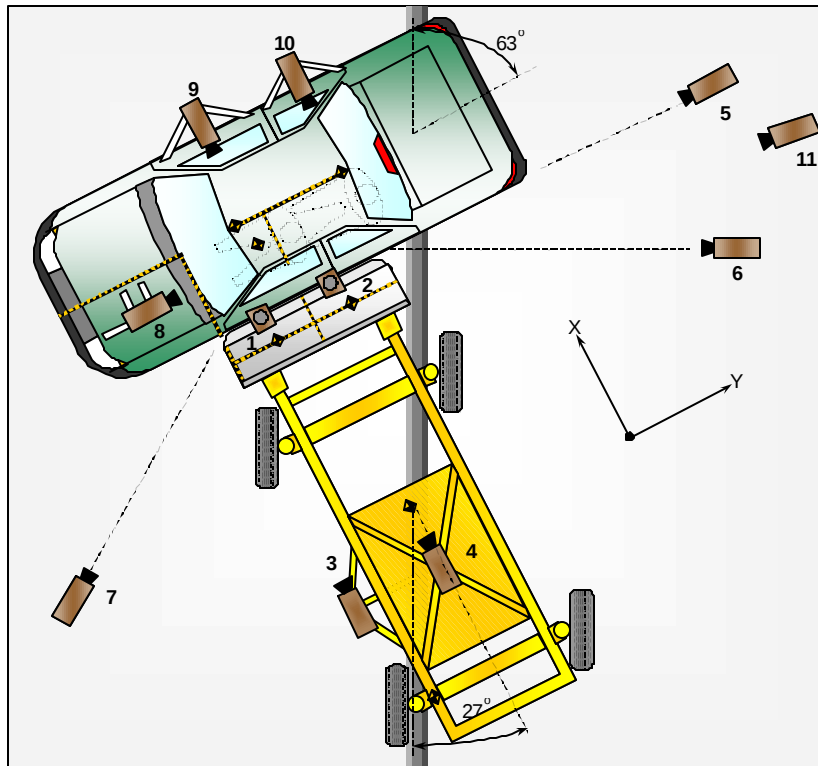
DATA SHEET NO. 15
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01



No.	Camera View	Location (mm)			Angle (deg.)	Lens (mm)	Film Speed (fr./sec.)
		X	Y	Z			
1	Overhead Overall	1652	-762	5486	-86	10	920
2	Overhead Close-up	-762	0	5791	-82	24	1020
3	MDB Onboard, Impact Point Close-Up	-2134	0	1143	-7	13	1140
4	MDB Onboard, Centerline of Impact	-3048	-1652	1829	-11	13	860
5	Right Side, Ground Level, Overall	9144	-18288	2210	-1	25	1010
6	Right Side, Ground Level, Close-up	0	-18898	1524	0	60	1000
7	Left Side, Ground Level, Close-up	Did Not Run					
8	Vehicle Onboard Front SID, Front	Did Not Run					
9	Vehicle Onboard Front SID, Side	1970	2010	1074	-5	10	1020
10	Vehicle Onboard Rear SID, Side	2176	-714	1125	-3	10	1010
11	Real Time Coverage	3072	19300	587	2	Zoom	16

DATA SHEET NO. 16

FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

NHTSA No.: M15205

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 02/01/01

Test Time: 11:52 AM Temperature at Time of Impact: 10.5 °C

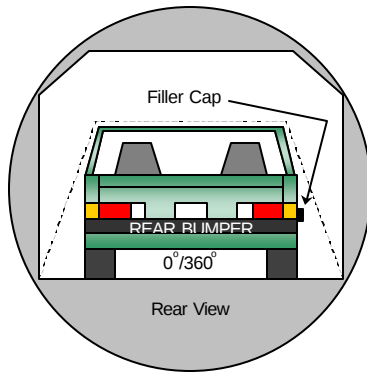
STODDARD SOLVENT SPILLAGE MEASUREMENTS

- A. From impact until vehicle motion ceases: 0.0 oz.
 (Maximum Allowable = 1 ounce)
- B. For the 5-minute period after motion ceases: 0.0 oz.
 (Maximum Allowable = 5 ounces)
- C. For the following 25 minutes: 0.0 oz.
 (Maximum Allowable = 1 oz./minute)
- D. Spillage Details: No leakage occurred

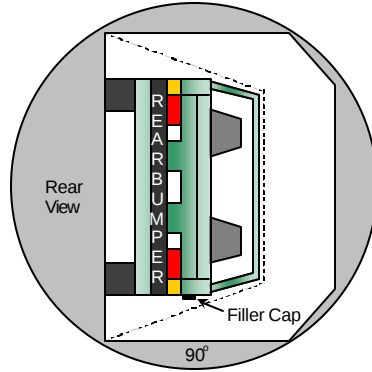
DATA SHEET NO. 17
FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV
 Test Program: 55/28 km/h 90° Side Impact NCAP

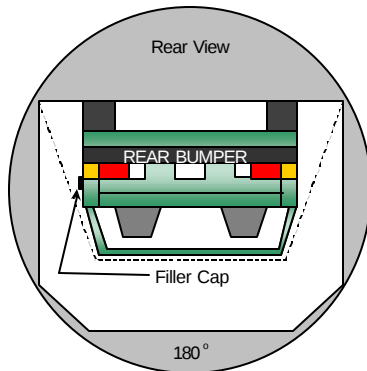
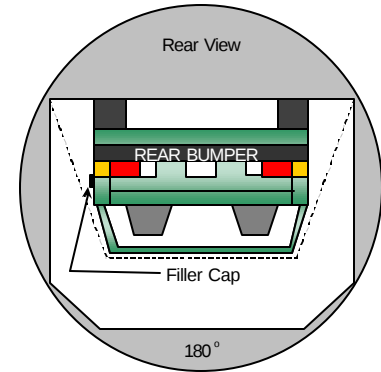
NHTSA No.: M15205
 Test Date: 02/01/01



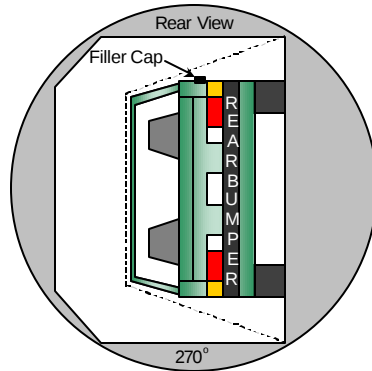
0° TO 90°



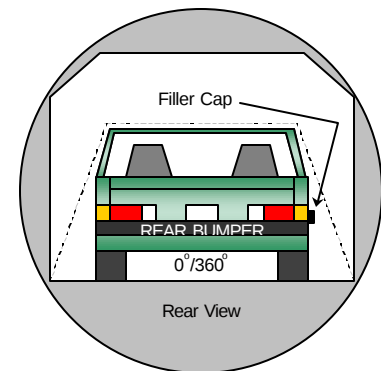
90° TO 180°



180° TO 270°



270° TO 360°



1. The specified fixture rollover rate for each 90° of rotation is 60 to 120 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations:

No solvent leakage occurred during static rollover testing.

Rollover Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (oz.)
0° TO 90°	83	300	0.0
90° TO 180°	82	300	0.0
180° TO 270°	79	300	0.0
270° TO 360°	82	300	0.0

APPENDIX A
PHOTOGRAPHS

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Figure A-1: Left Front, as Received



Figure A-2: Right Rear, as Received



Figure A-3: Vehicle Certification Label

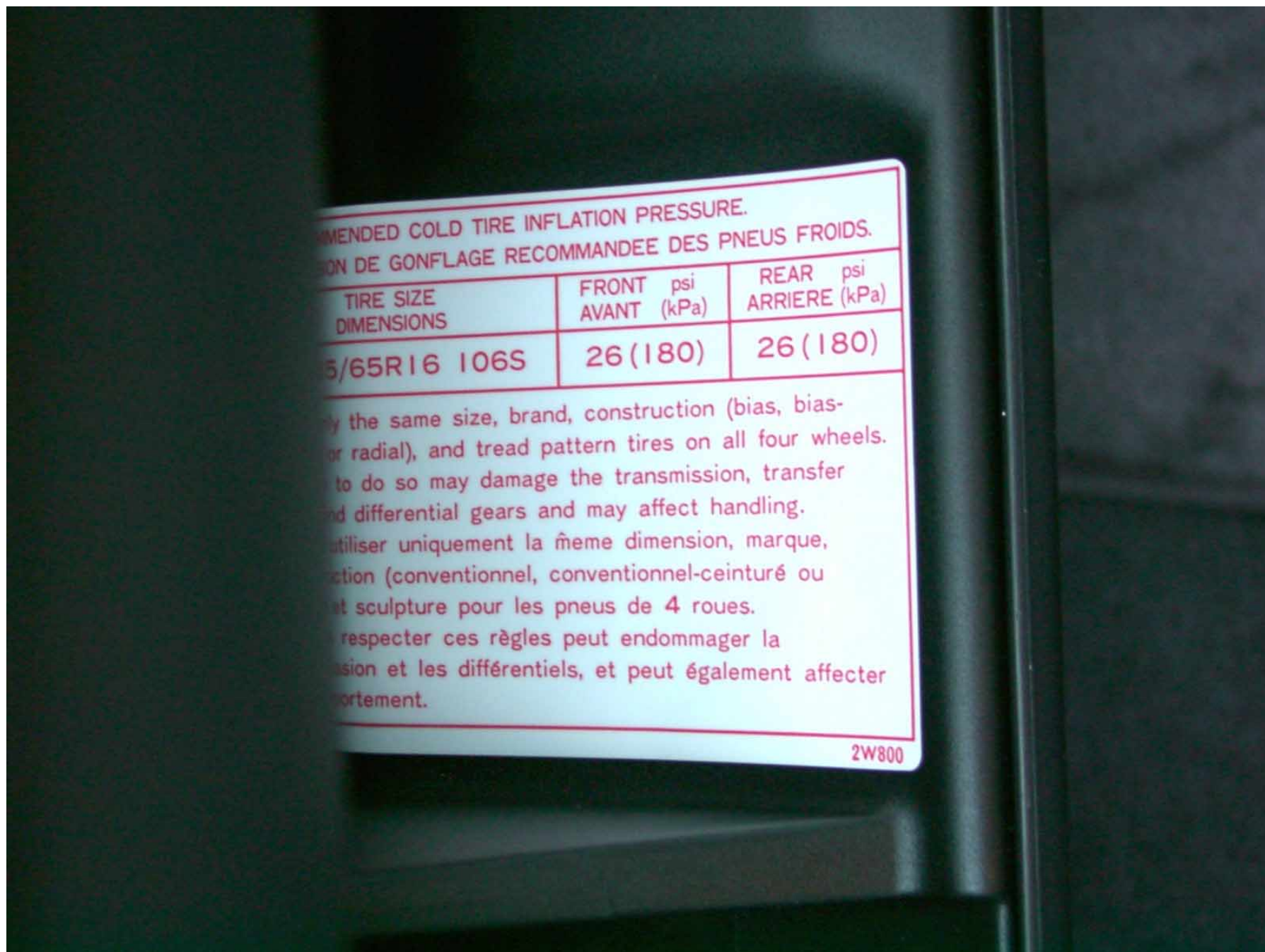


Figure A-4: Vehicle Tire Label



Figure A-5: Front View, Pre-Test



Figure A-6: Front View, Post-Test



Figure A-7: Rear View, Pre-Test



Figure A-8: Rear View, Post-Test



Figure A-9: Left (Impacted) Side View, Pre-Test



Figure A-10: Left (Impacted) Side View, Post-Test



Figure A-11: Overhead Close-up View at Impact Position, Pre-Test



Figure A-12: Overhead Overall View, Pre-Test



Figure A-13: Overhead Overall View, Post-Test



Figure A-14: MDB Left Side View at Impact Position, Pre-Test



Figure A-15: MDB Right Side View at Impact Position, Pre-Test



Figure A-16: Impact Point Target Close-up, Pre-Test



Figure A-17: Impact Point Target Close-up, Post-Test

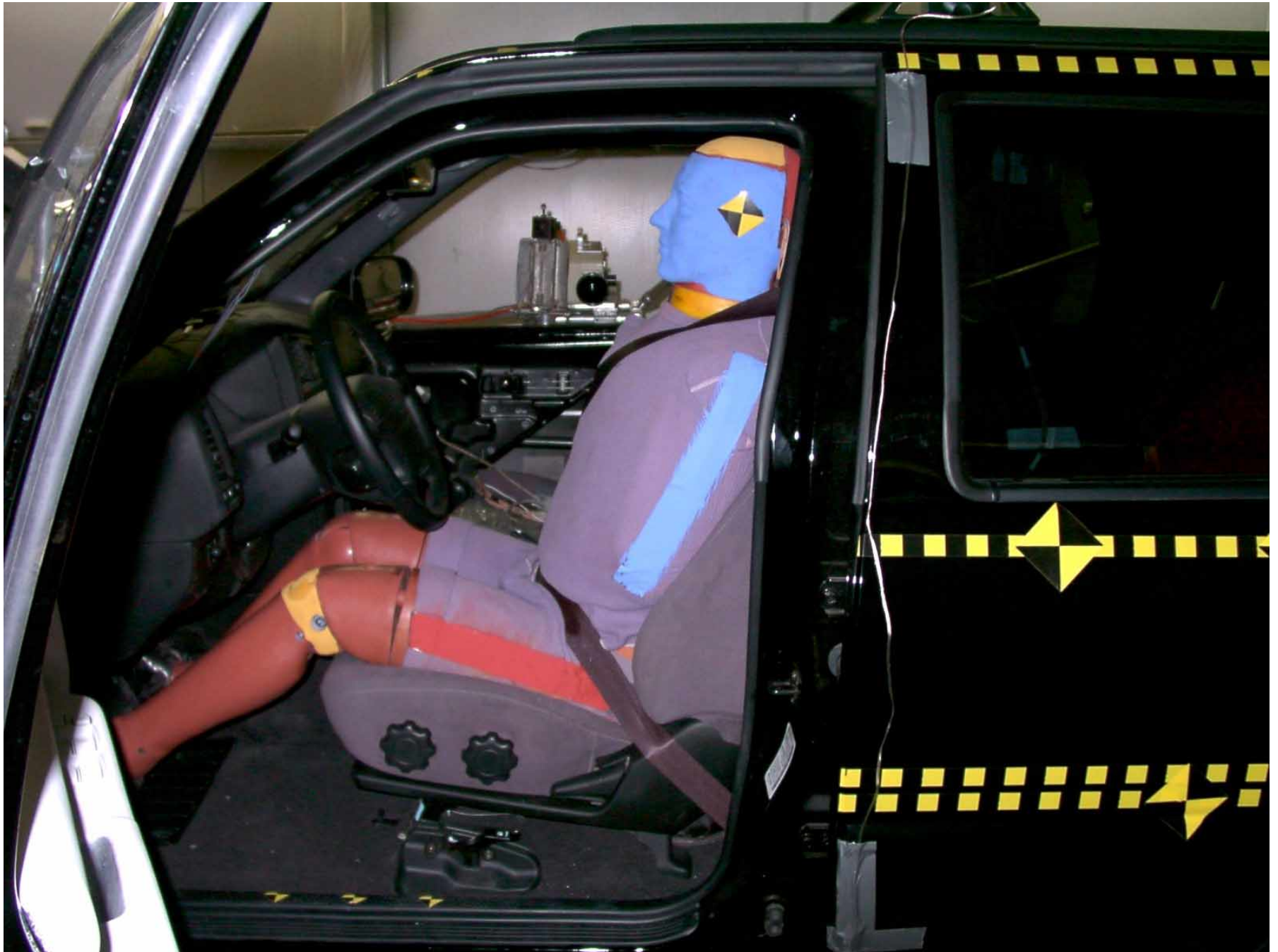


Figure A-18: Driver Dummy Left Side with Door Open, Pre-Test

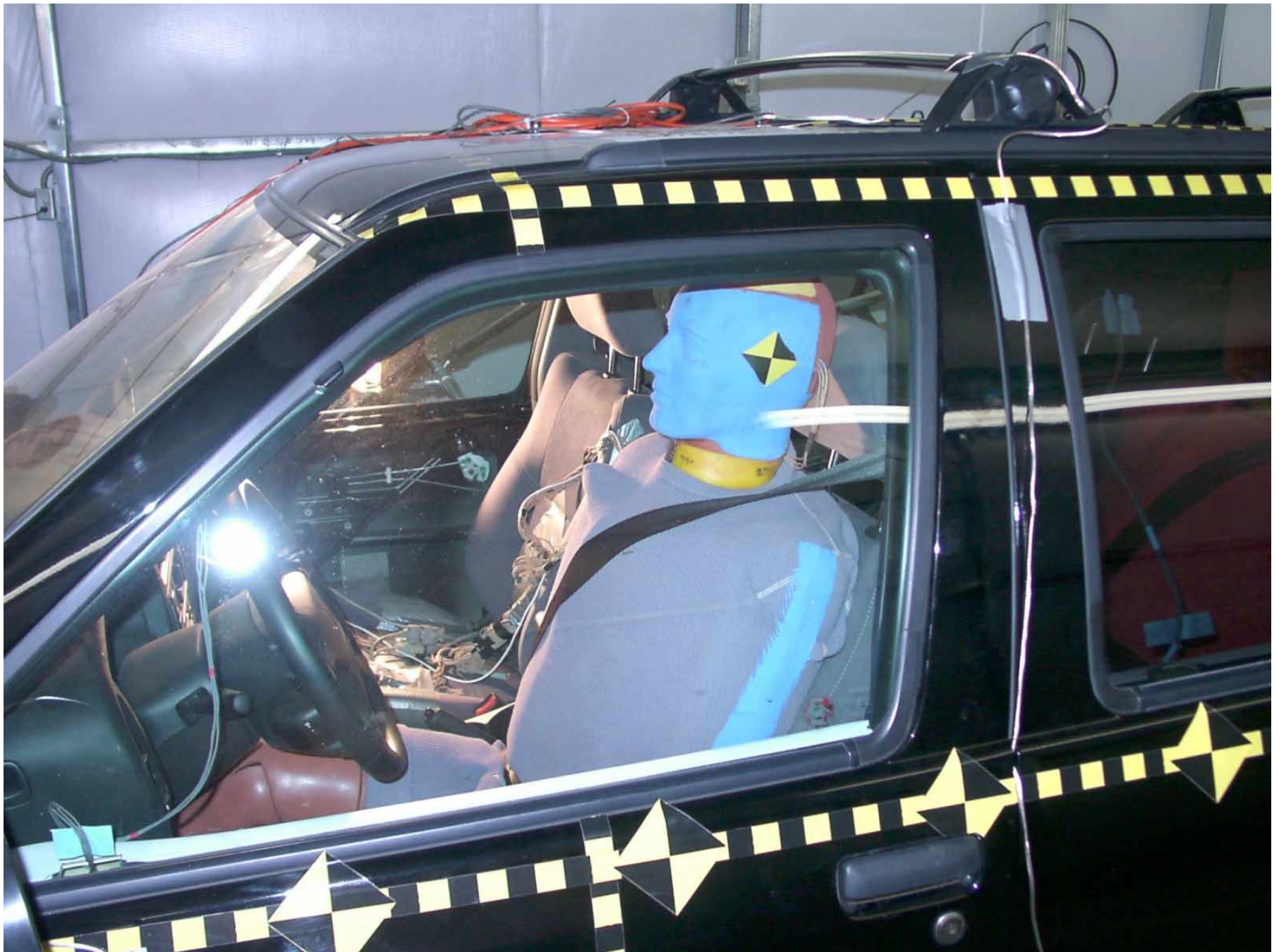


Figure A-19: Driver Dummy Left Side, Pre-test



Figure A-20: Driver Dummy Left Side, Post-Test



Figure A-21: Driver Dummy Clearance, Pre-Test



Figure A-22: Driver Dummy Clearance, Post-Test



Figure A-23: Driver Dummy Inside View, Pre-Test



Figure A-24: Driver Dummy Inside View, Post-Test



Figure A-25: Driver Door Inside View, Pre-Test



Figure A-26: Driver Dummy Contact Points Inside View, Post-Test



Figure A-27: Passenger Dummy Left Side with Door Open, Pre-Test



Figure A-28: Passenger Dummy Left Side, Pre-Test



Figure A-29: Passenger Dummy Left Side, Post-Test



Figure A-30: Passenger Dummy Clearance, Pre-Test



Figure A-31: Passenger Dummy Clearance, Post-Test



Figure A-32: Passenger Dummy Inside View, Pre-Test



Figure A-33: Passenger Dummy Inside View, Post-Test



Figure A-34: Passenger Door Inside View, Pre-Test



Figure A-35: Passenger Dummy Contact Points Inside View, Post-Test



Figure A-36: Front View of Deformable Barrier, Pre-Test



Figure A-37: Front View of Deformable Barrier, Post-Test



Figure A-38: Top View of Deformable Barrier, Pre-Test



Figure A-39: Top View of Deformable Barrier, Post-Test



Figure A-40: Right Side View of Deformable Barrier, Pre-Test



Figure A-41: Right Side View of Deformable Barrier, Post-Test



Figure A-42: Left Side View of Deformable Barrier, Pre-Test



Figure A-43: Left Side View of Deformable Barrier, Post-Test



Figure A-44: Vehicle on Rollover Device, Top View



Figure A-45: Vehicle During Impact

APPENDIX B
SID, VEHICLE, AND MDB RESPONSE DATA

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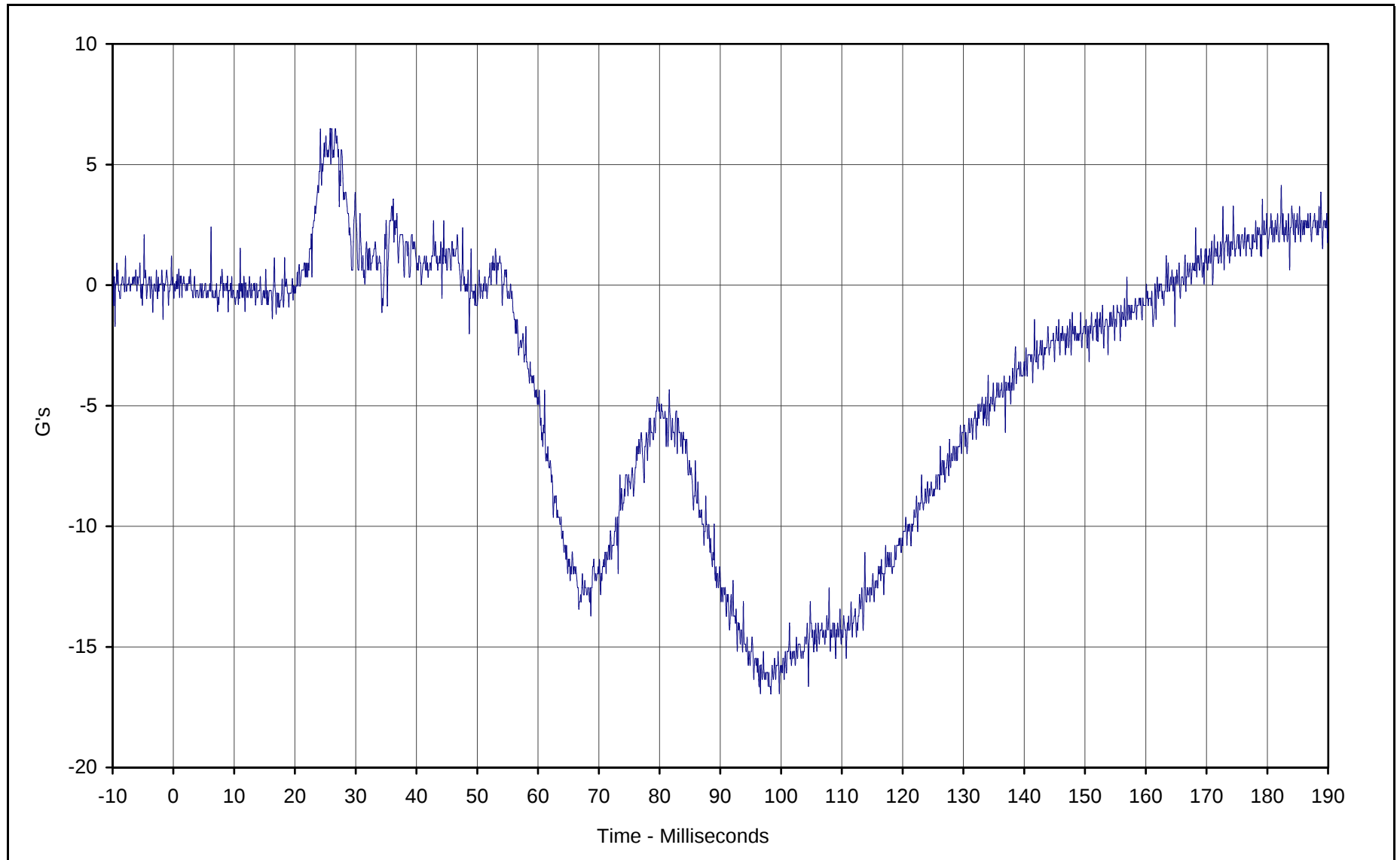
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Curve Description: Driver Head CG X

Maximum Value: 6.5 at 24.2 Milliseconds

Minimum Value: -16.9 at 96.6 Milliseconds

SAE Filter Class: 1000

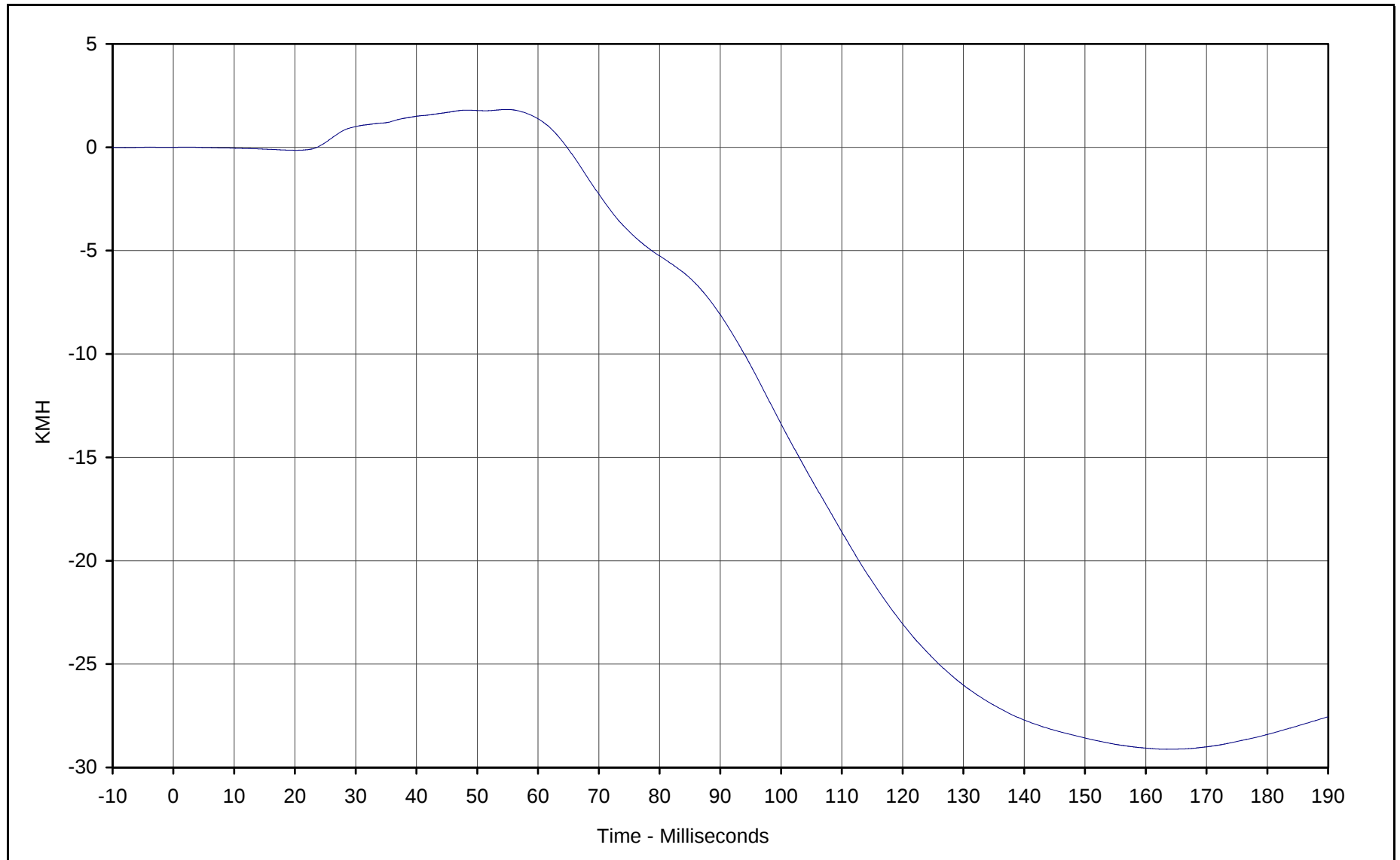
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Curve Number: FIL-001

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

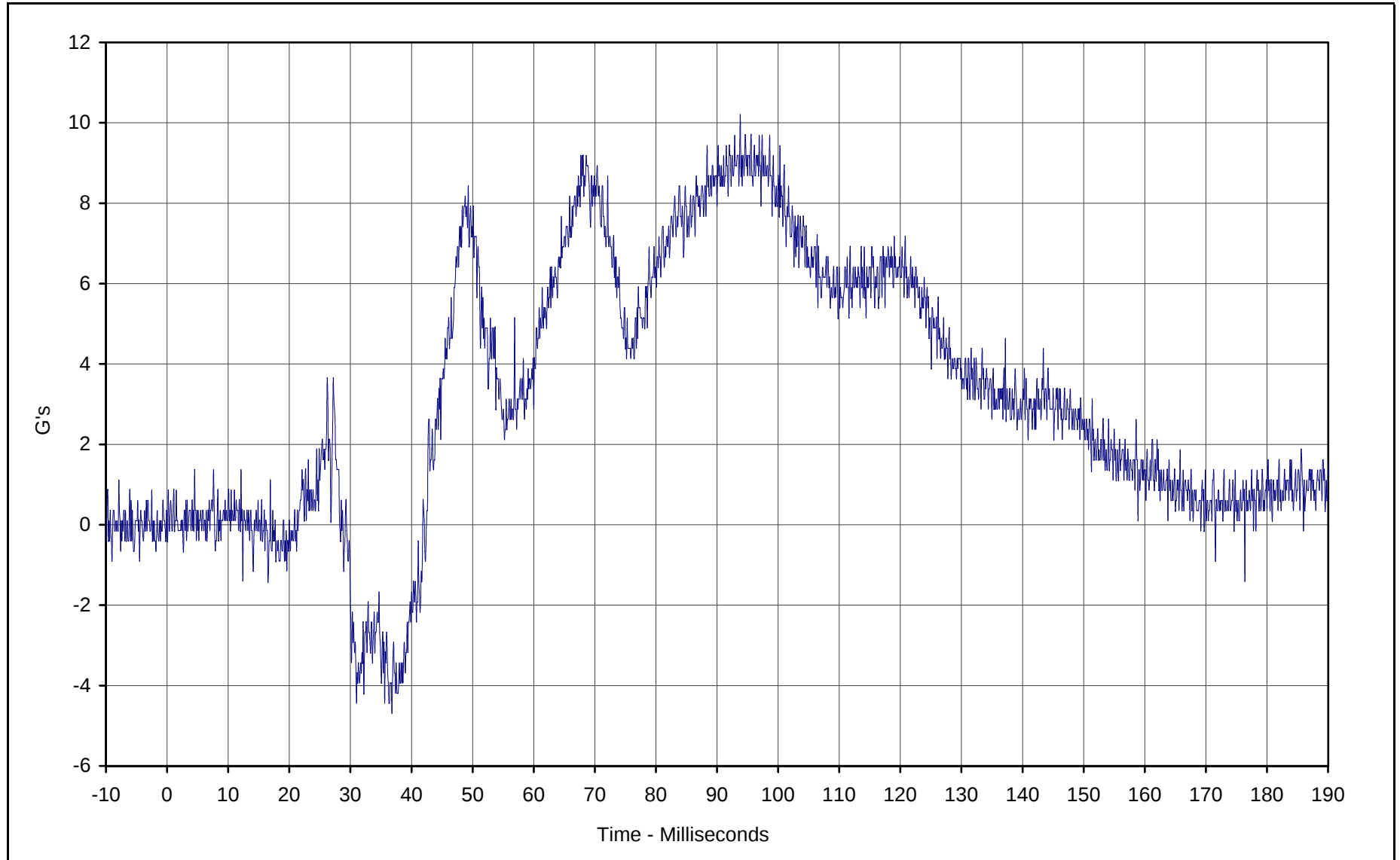




Curve Description: Driver Head CG X Velocity
Maximum Value: 1.8 at 54.9 Milliseconds
Minimum Value: -29.1 at 163.2 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-001

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Head CG Y

Maximum Value: 10.2 at 93.8 Milliseconds

Minimum Value: -4.7 at 36.8 Milliseconds

SAE Filter Class: 1000

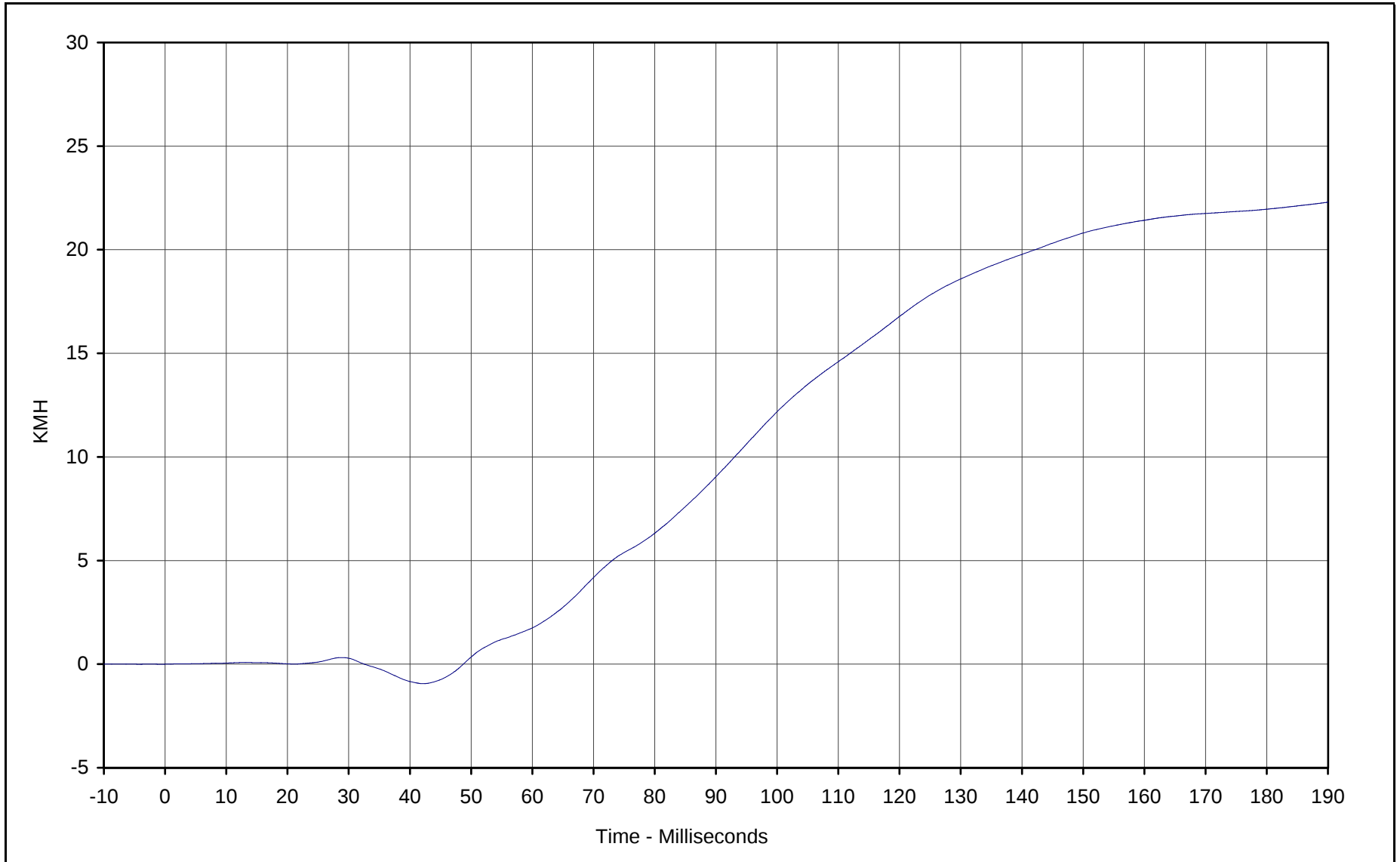
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Curve Number: FIL-002

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

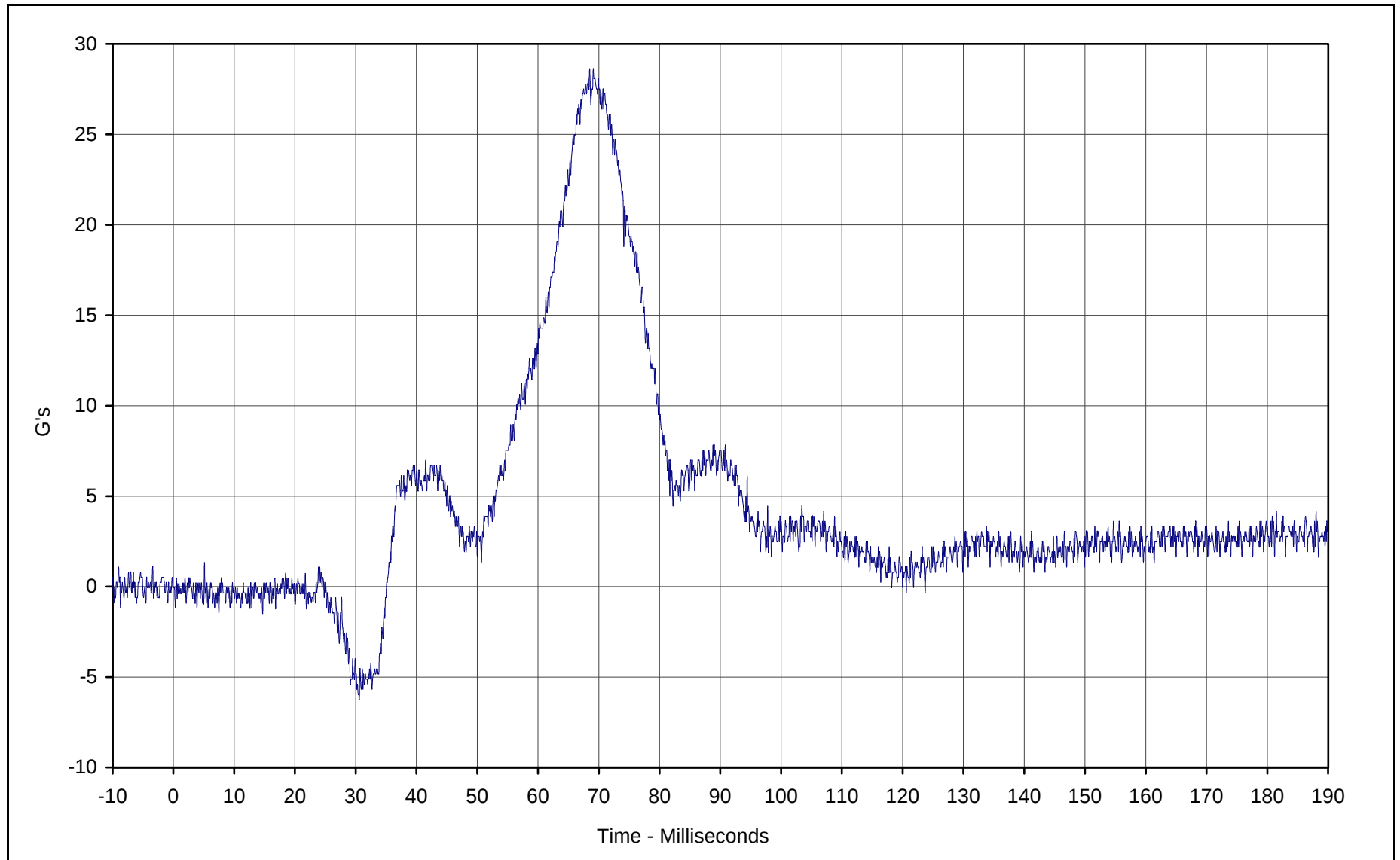




Curve Description: Driver Head CG Y Velocity
Maximum Value: 22.3 at 189.9 Milliseconds
Minimum Value: -0.9 at 42.2 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-002

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

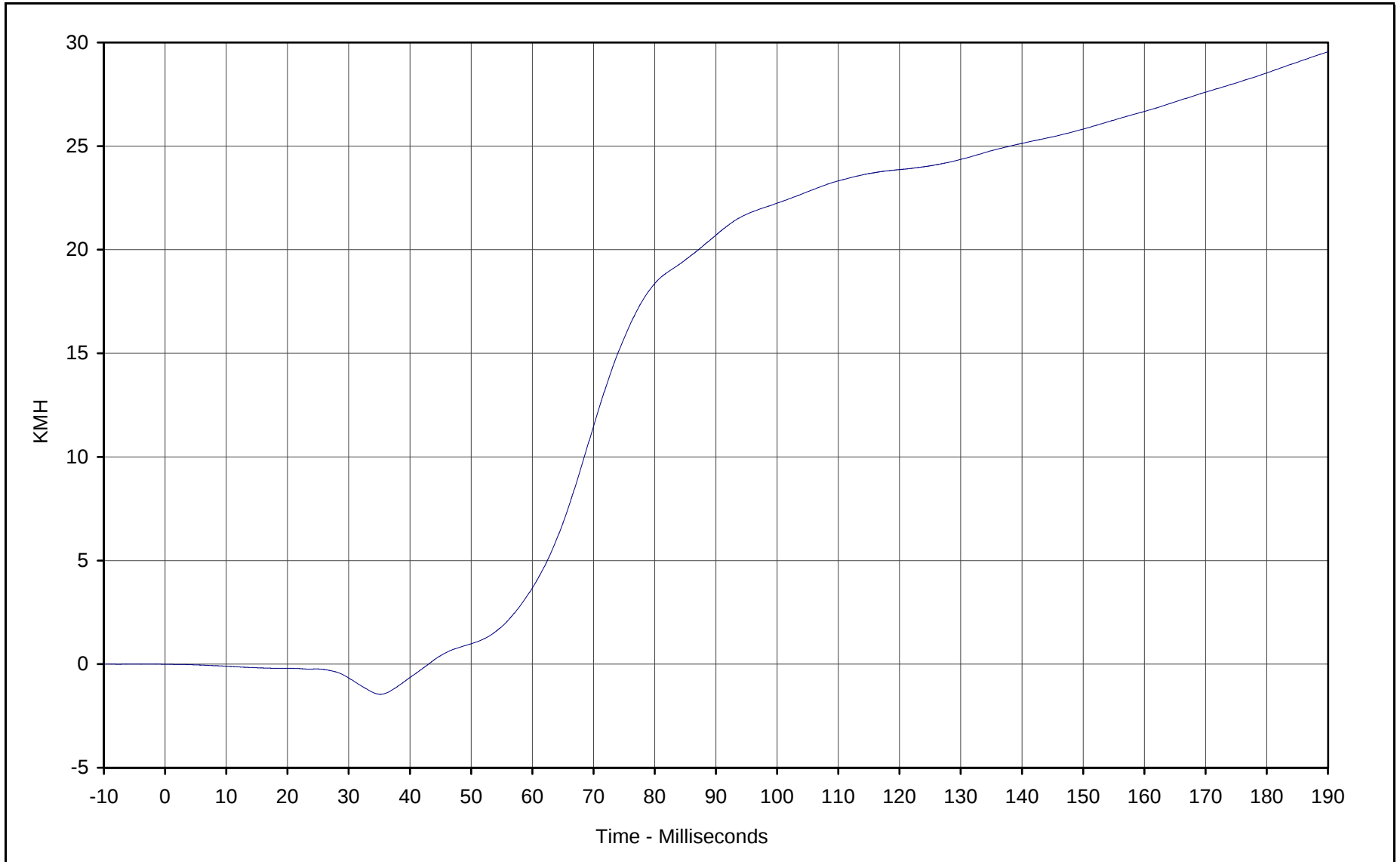




Curve Description: Driver Head CG Z
Maximum Value: 28.6 at 68.5 Milliseconds
Minimum Value: -6.2 at 30.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-003

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

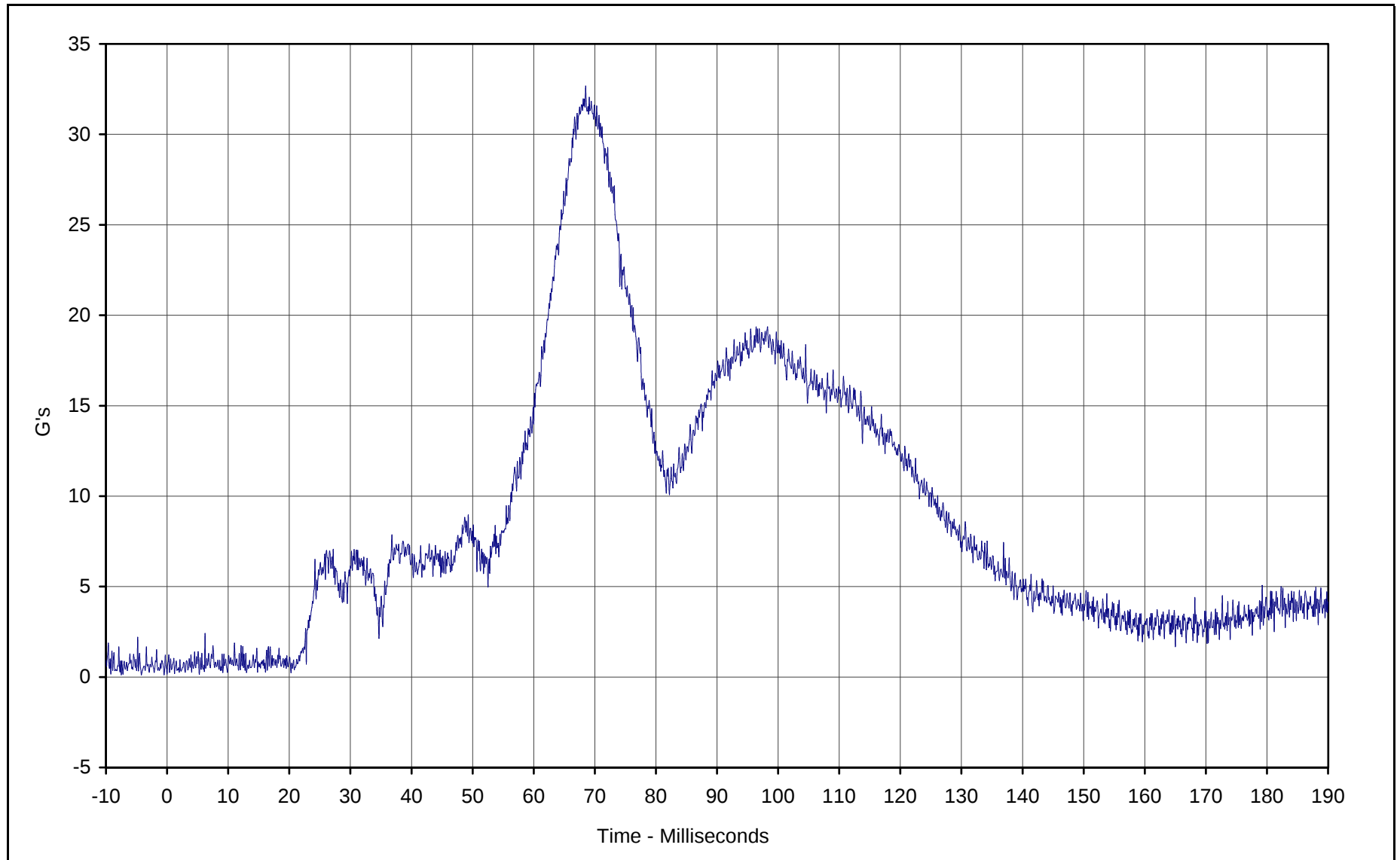




Curve Description: Driver Head CG Z Velocity
Maximum Value: 29.5 at 189.9 Milliseconds
Minimum Value: -1.5 at 35.2 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-003

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

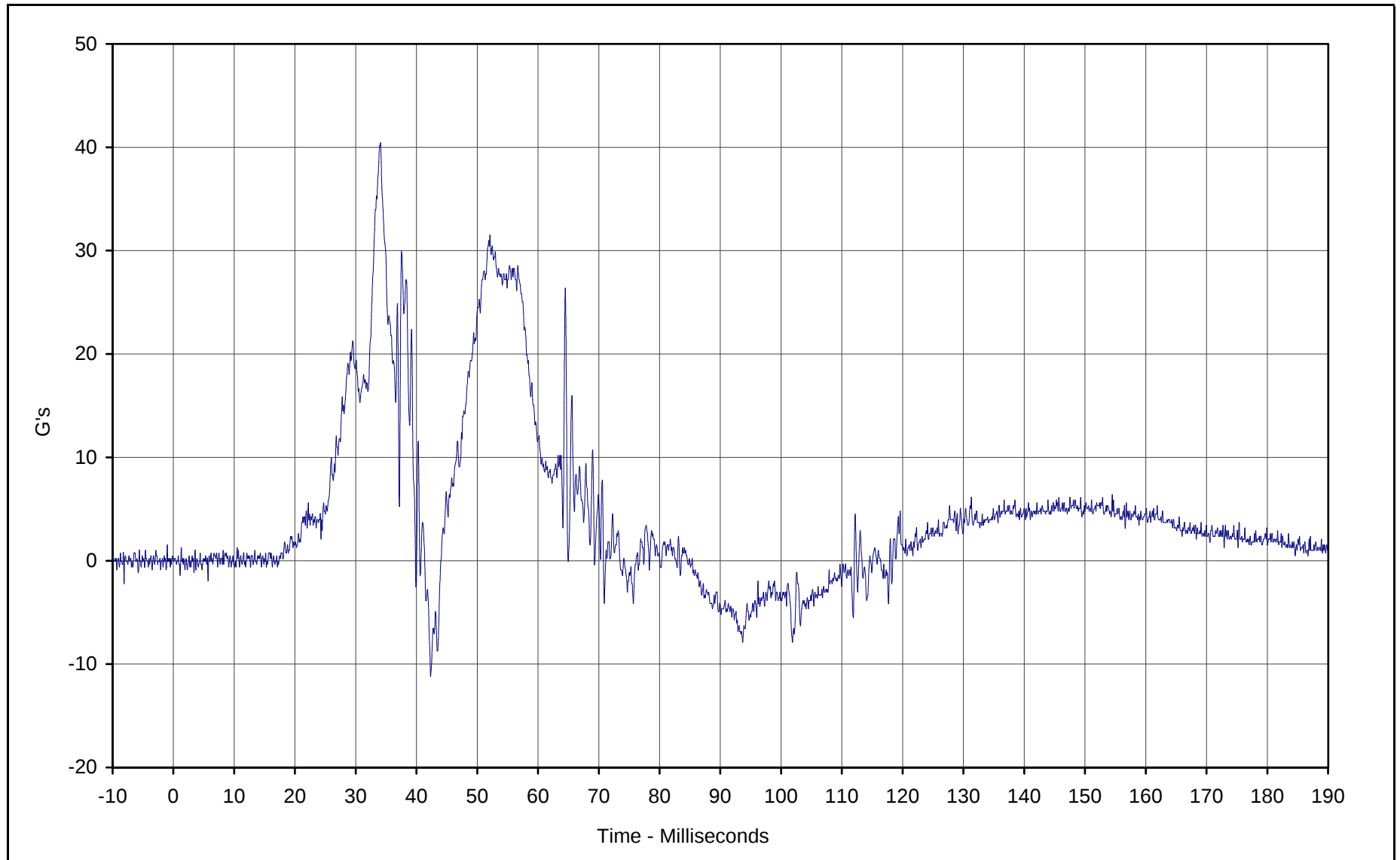




Curve Description: Driver Head CG Resultant
Maximum Value: 32.7 at 68.5 Milliseconds
Minimum Value: 0.1 at 5.3 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: RES-001

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

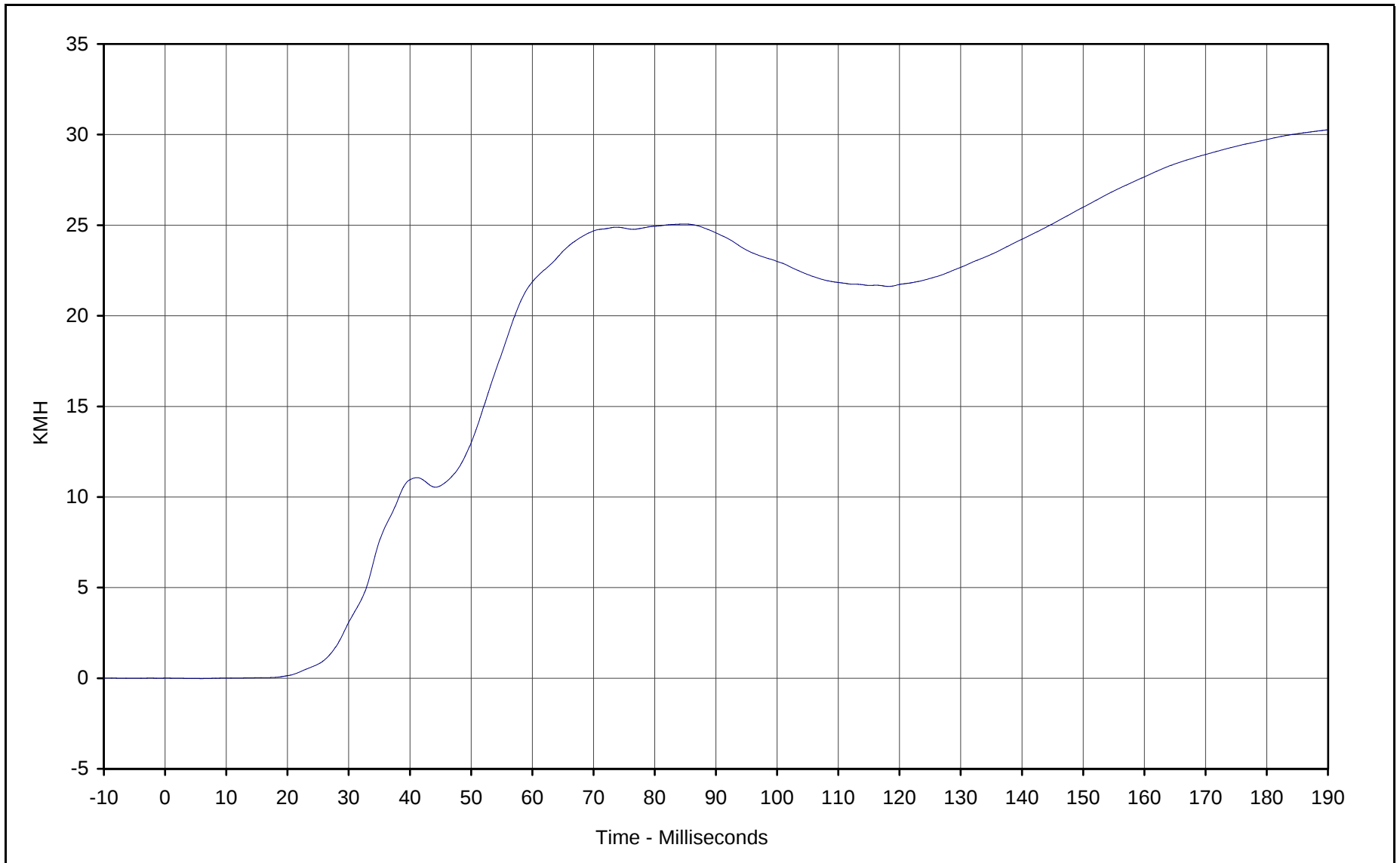




Curve Description: Driver Upper Rib Primary Y
Maximum Value: 40.4 at 34.1 Milliseconds
Minimum Value: -11.1 at 42.3 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-004

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Upper Rib Primary Y Velocity

Maximum Value: 30.3 at 189.9 Milliseconds

Minimum Value: 0.0 at 5.9 Milliseconds

SAE Filter Class: 180

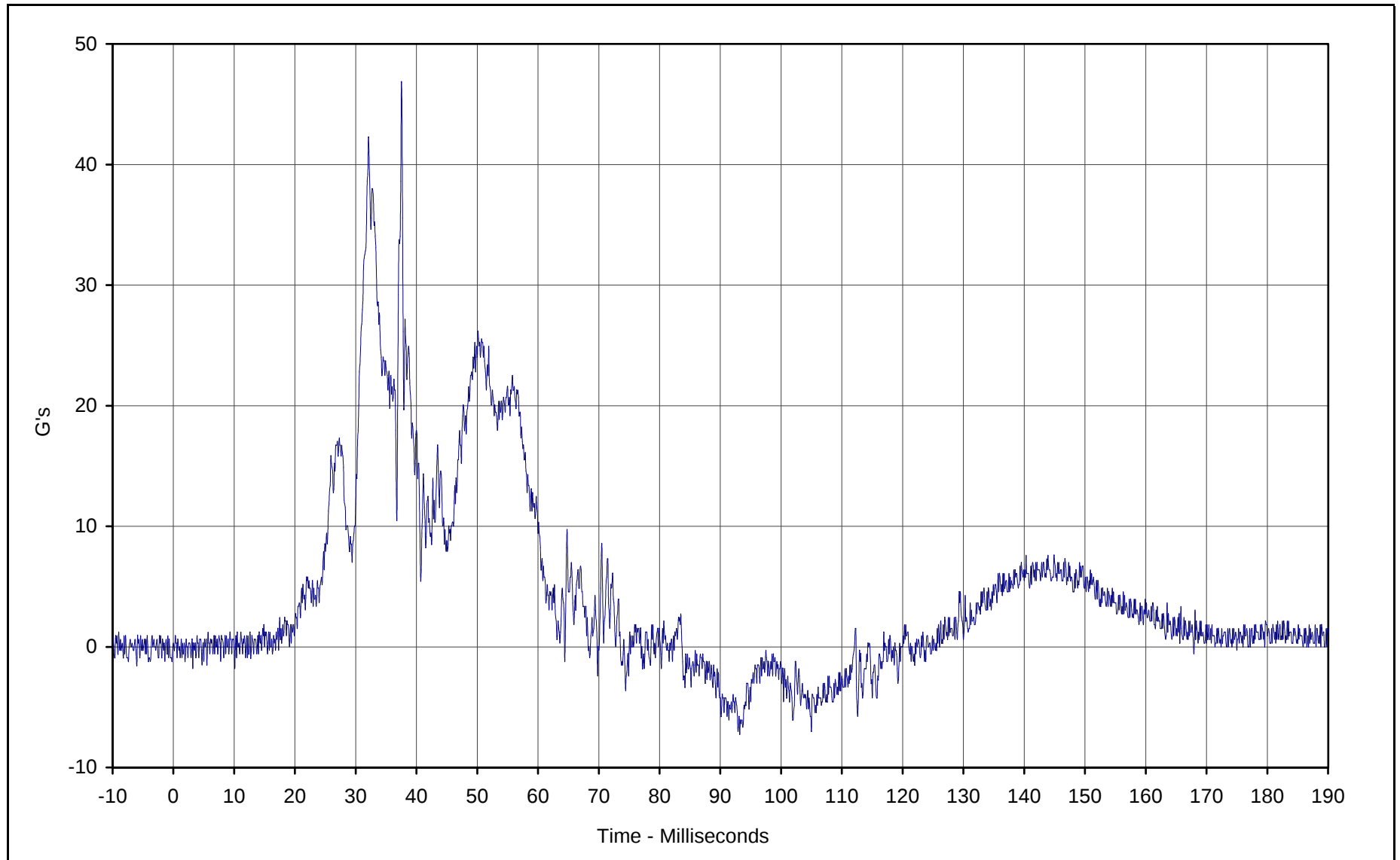
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Curve Number: IN1-004

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

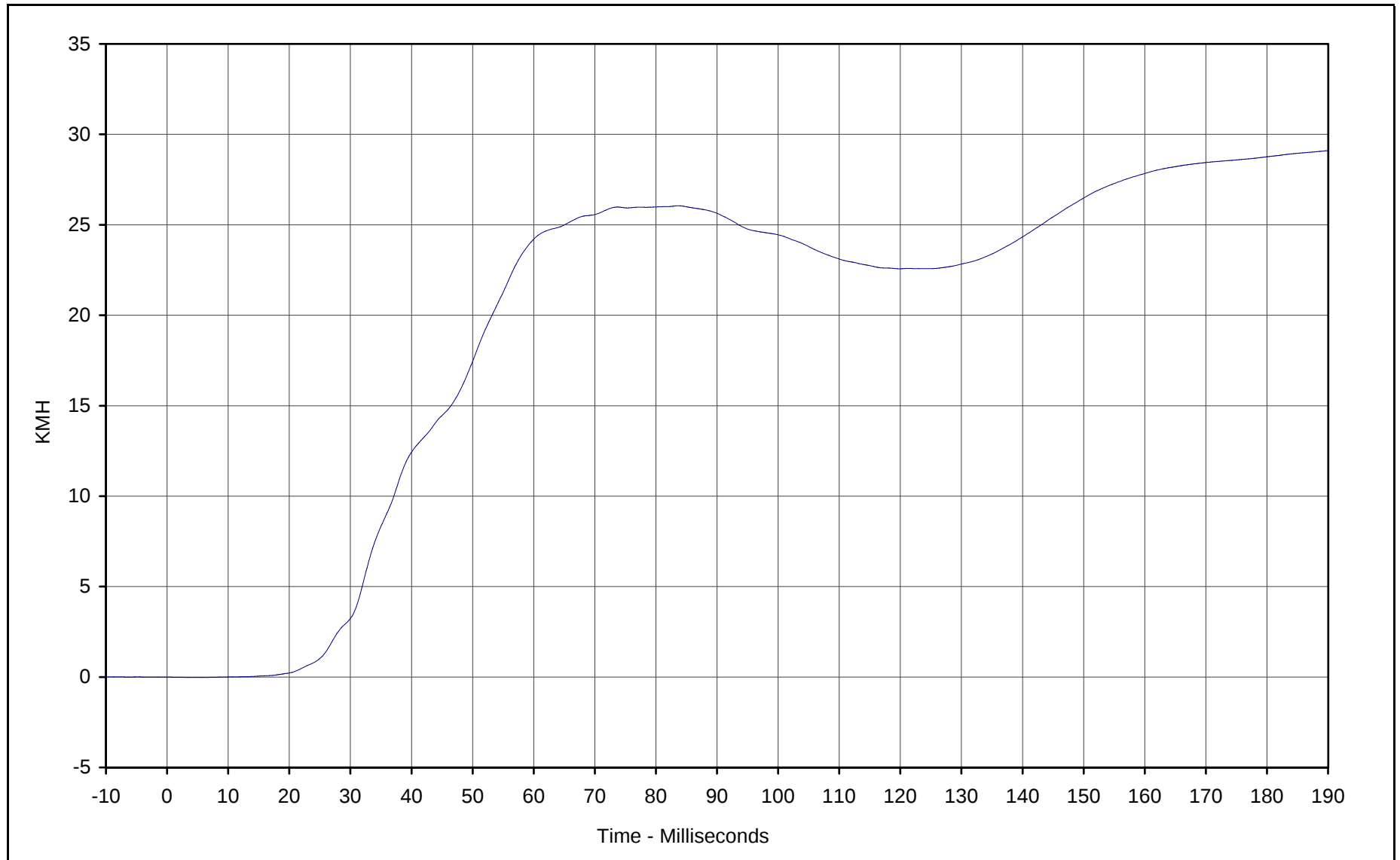




Curve Description: Driver Lower Rib Primary Y
Maximum Value: 46.8 at 37.5 Milliseconds
Minimum Value: -7.3 at 93.2 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-005

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Lower Rib Primary Y Velocity

Maximum Value: 29.1 at 189.9 Milliseconds

Minimum Value: 0.0 at 5.4 Milliseconds

SAE Filter Class: 180

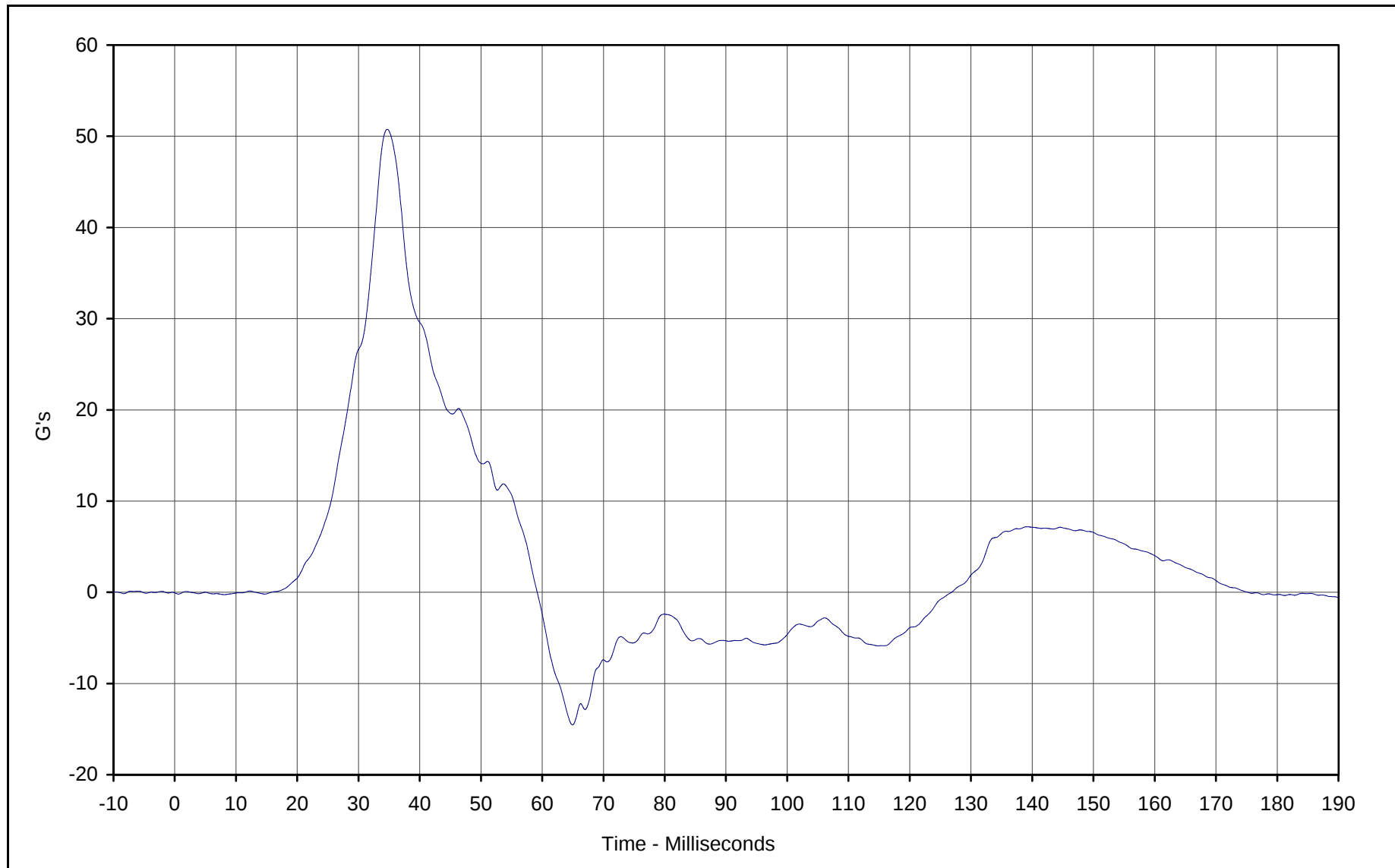
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Curve Number: IN1-005

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

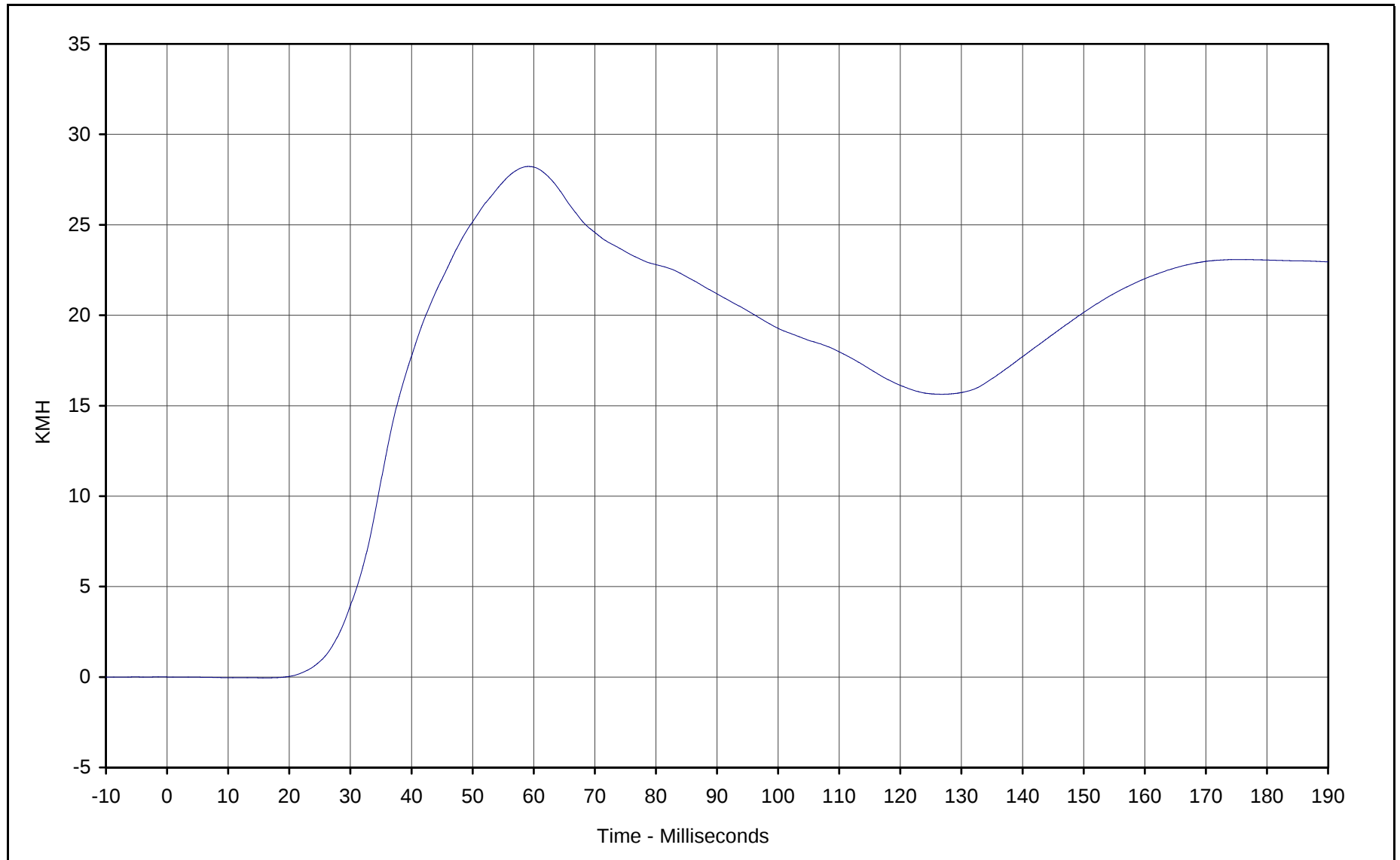




Curve Description: Driver Lower Spine Primary Y
Maximum Value: 50.8 at 34.7 Milliseconds
Minimum Value: -14.5 at 64.9 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: FIL-006

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Lower Spine Primary Y Velocity

Maximum Value: 28.2 at 59.2 Milliseconds

Minimum Value: 0.0 at 15.7 Milliseconds

SAE Filter Class: 180

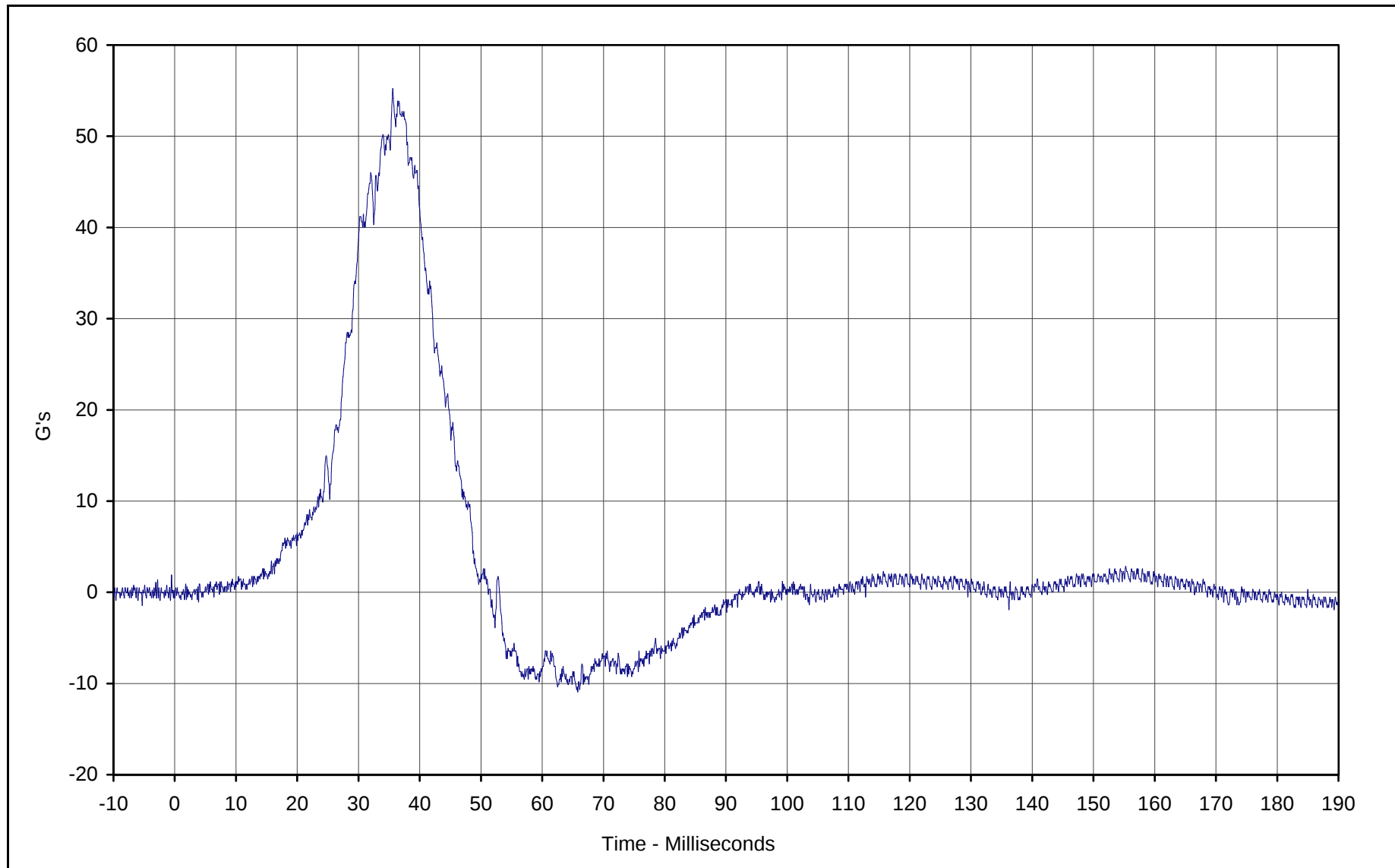
Date of Test: 02/01/01

Curve Number: IN1-006

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

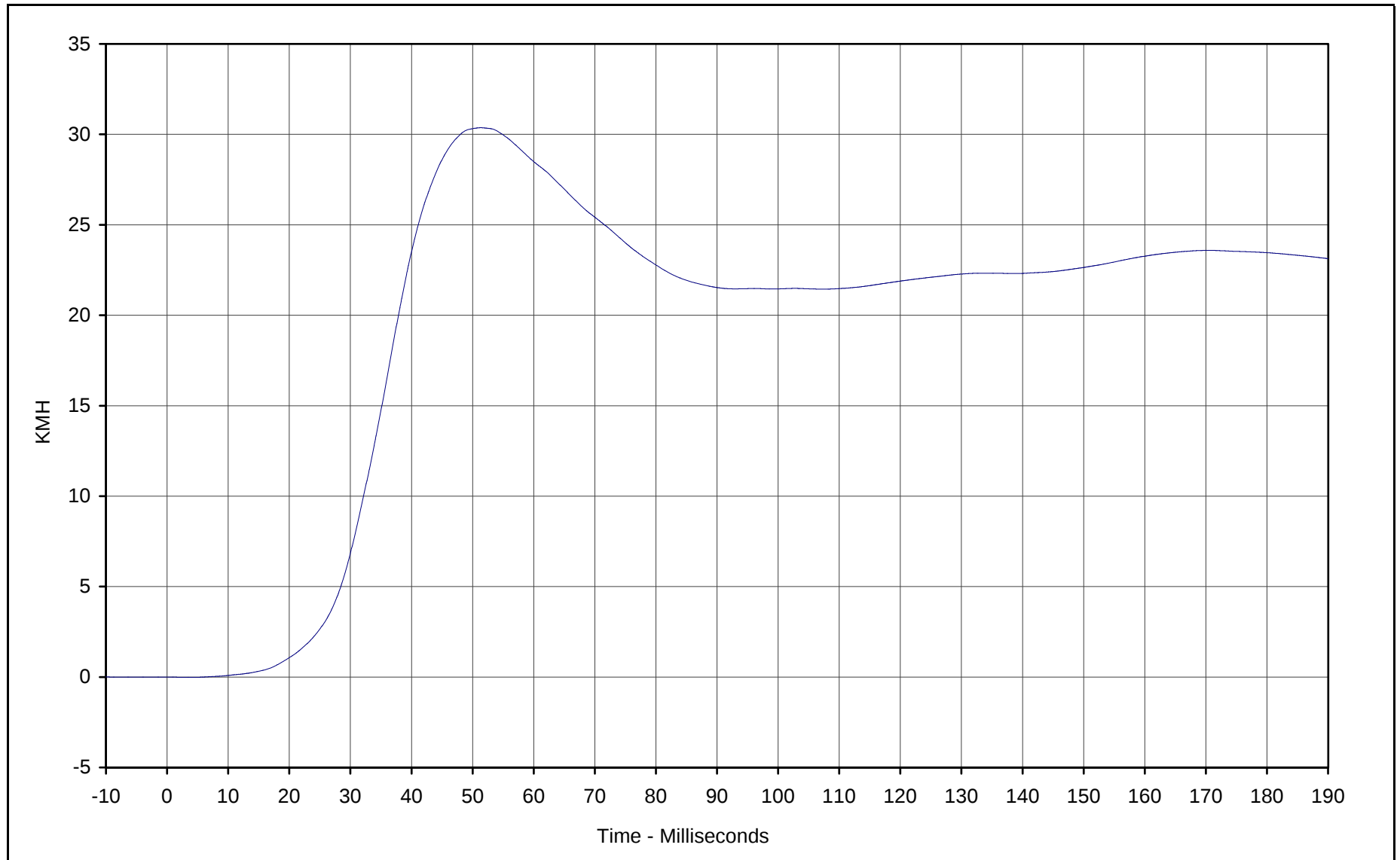




Curve Description: Driver Pelvis Primary Y
Maximum Value: 55.3 at 35.6 Milliseconds
Minimum Value: -10.9 at 65.8 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-007

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

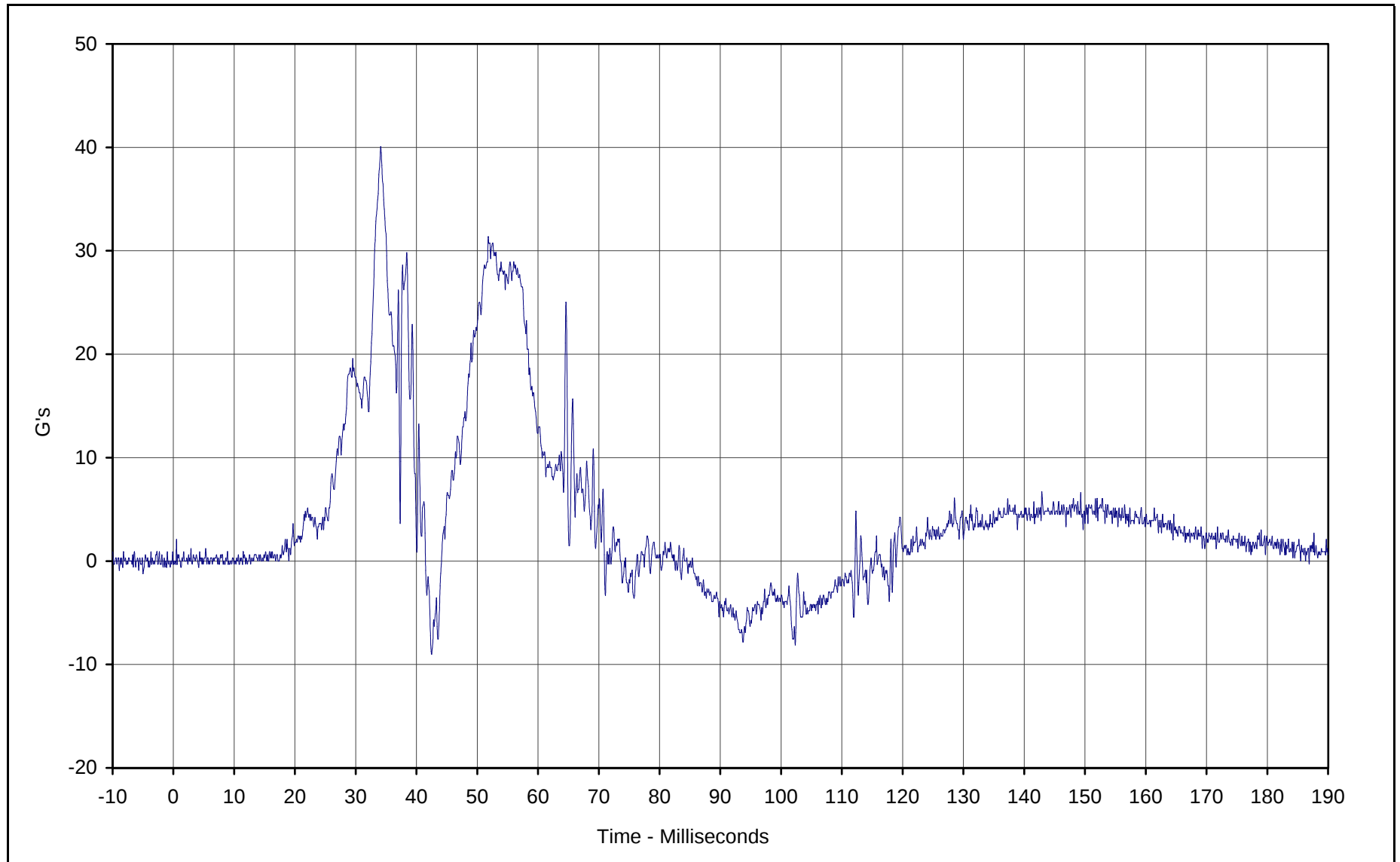




Curve Description: Driver Pelvis Primary Y Velocity
Maximum Value: 30.4 at 51.3 Milliseconds
Minimum Value: 0.0 at 3.6 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-007

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

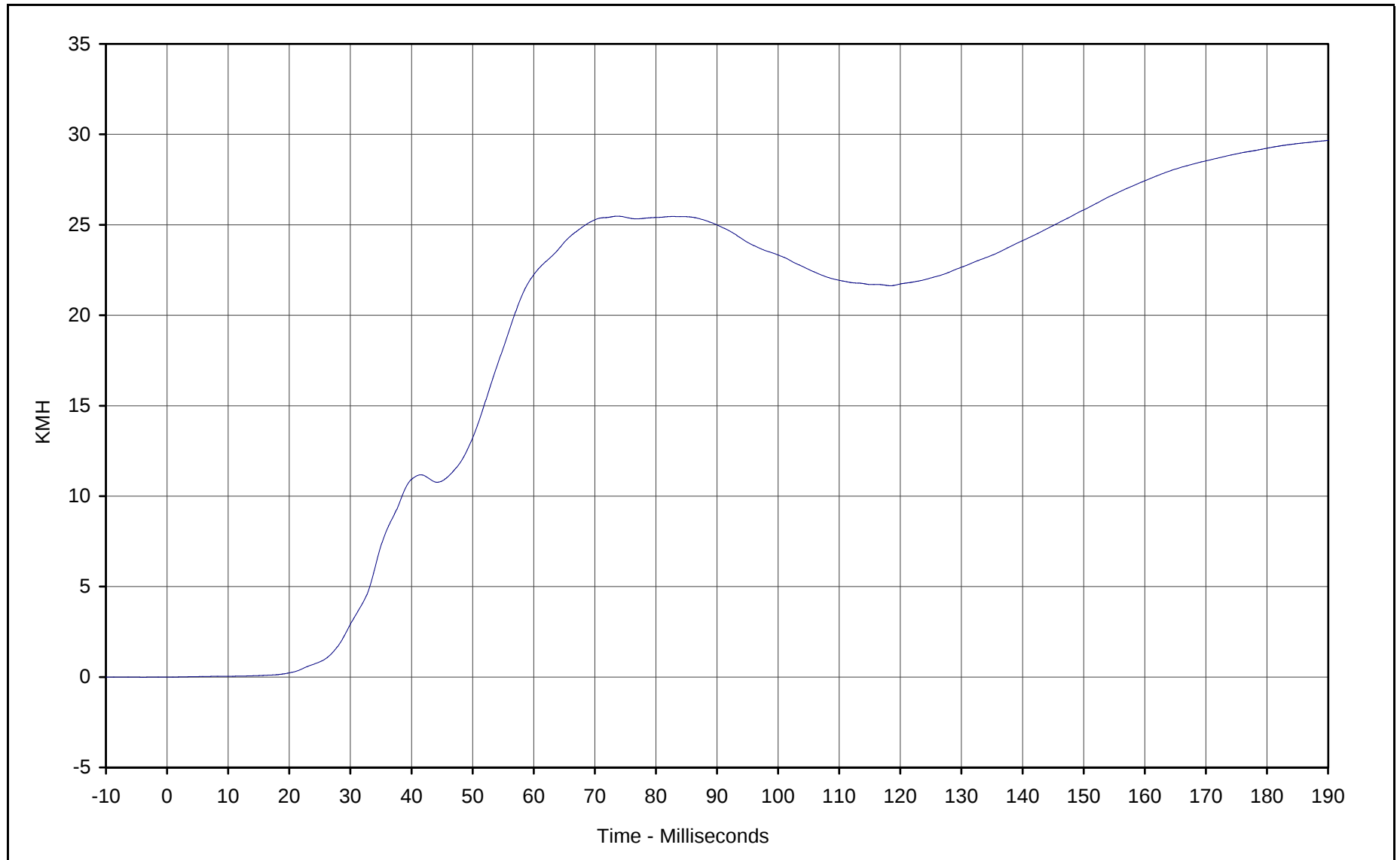




Curve Description: Driver Upper Rib Redundant Y
Maximum Value: 40.1 at 34.1 Milliseconds
Minimum Value: -9.0 at 42.5 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-008

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Upper Rib Redundant Y Velocity

Maximum Value: 29.7 at 189.9 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

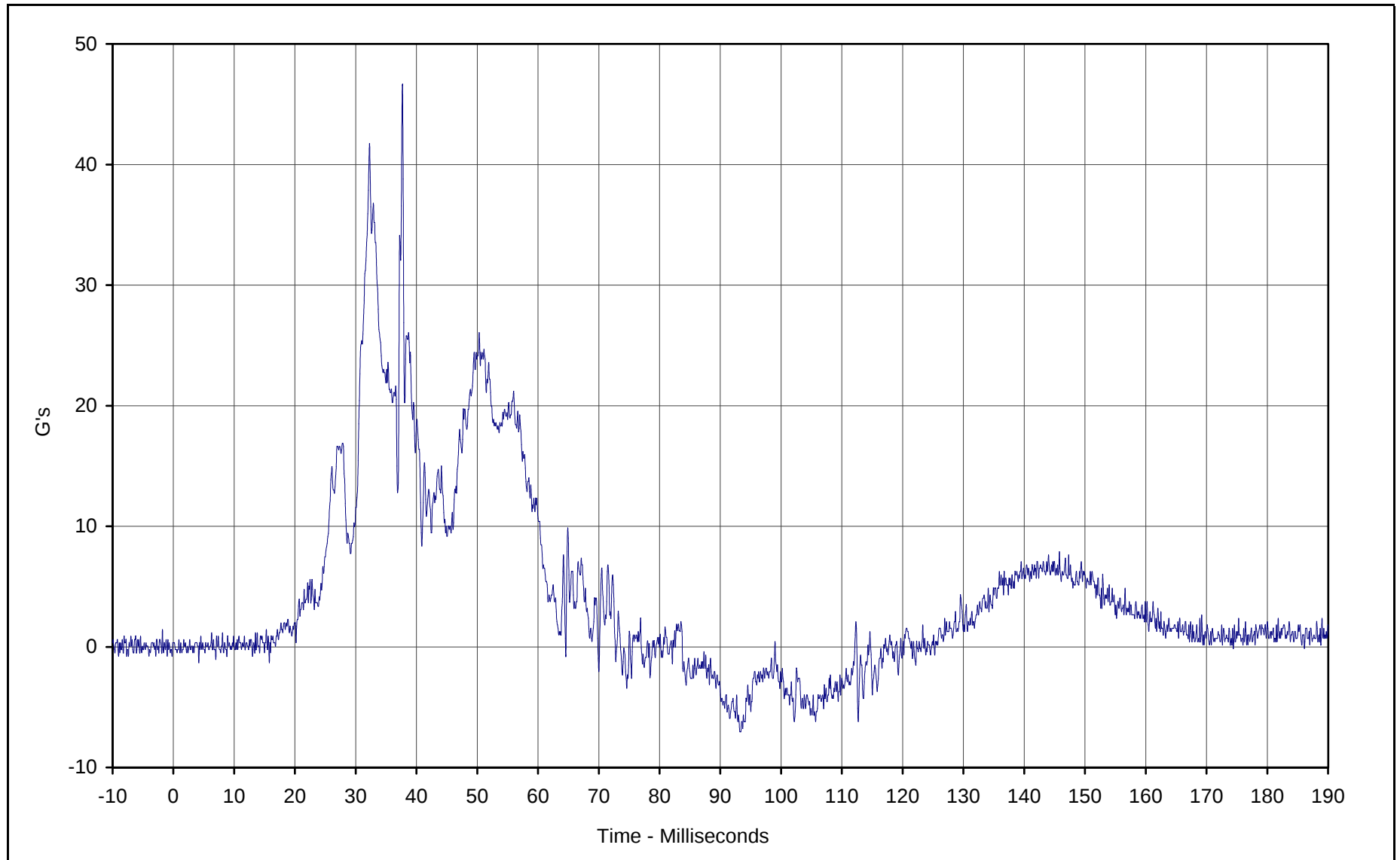
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Curve Number: IN1-008

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

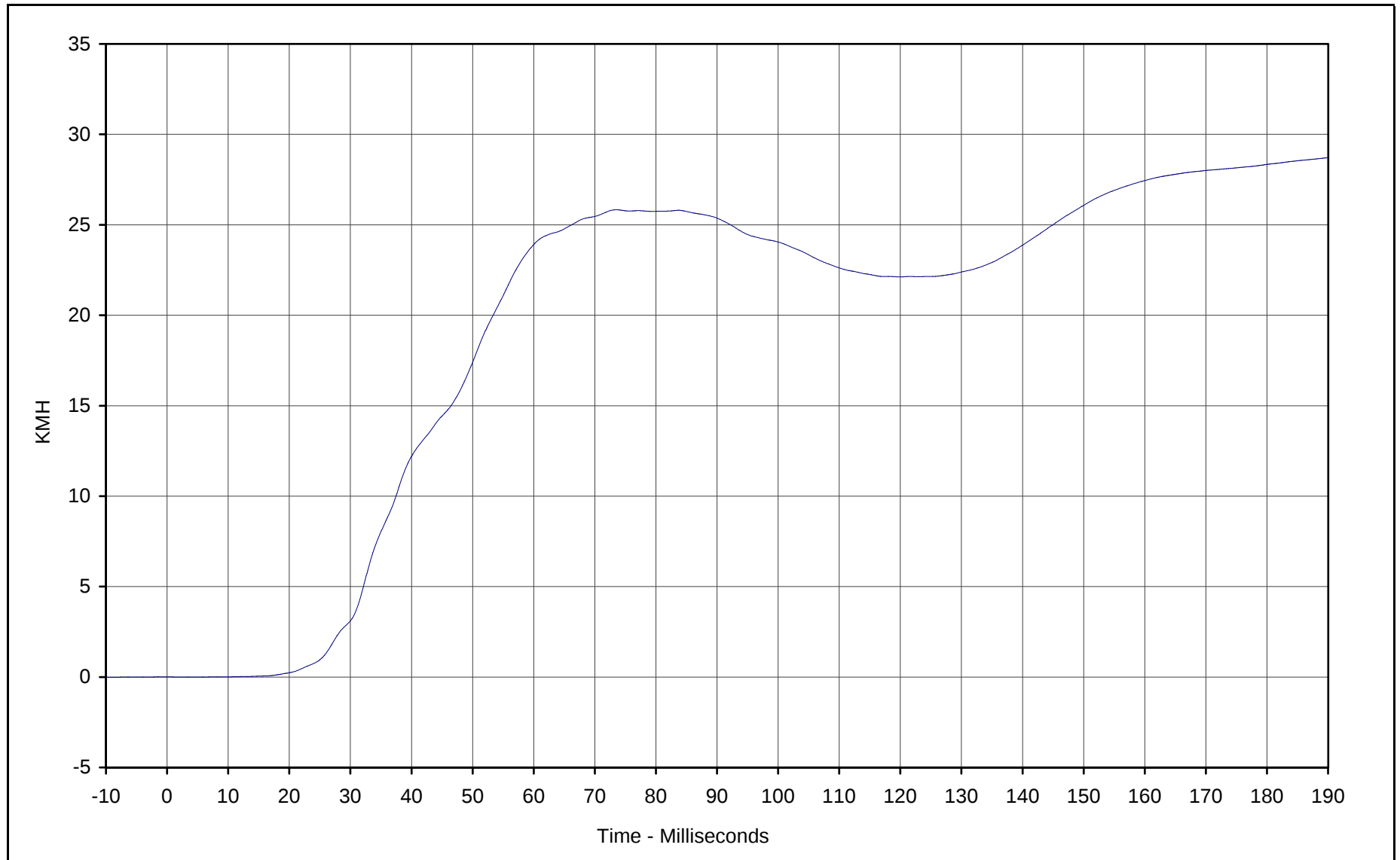




Curve Description: Driver Lower Rib Redundant Y
Maximum Value: 46.5 at 37.7 Milliseconds
Minimum Value: -7.0 at 93.2 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-009

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Lower Rib Redundant Y Velocity

Maximum Value: 28.7 at 189.9 Milliseconds

Minimum Value: 0.0 at 3.4 Milliseconds

SAE Filter Class: 180

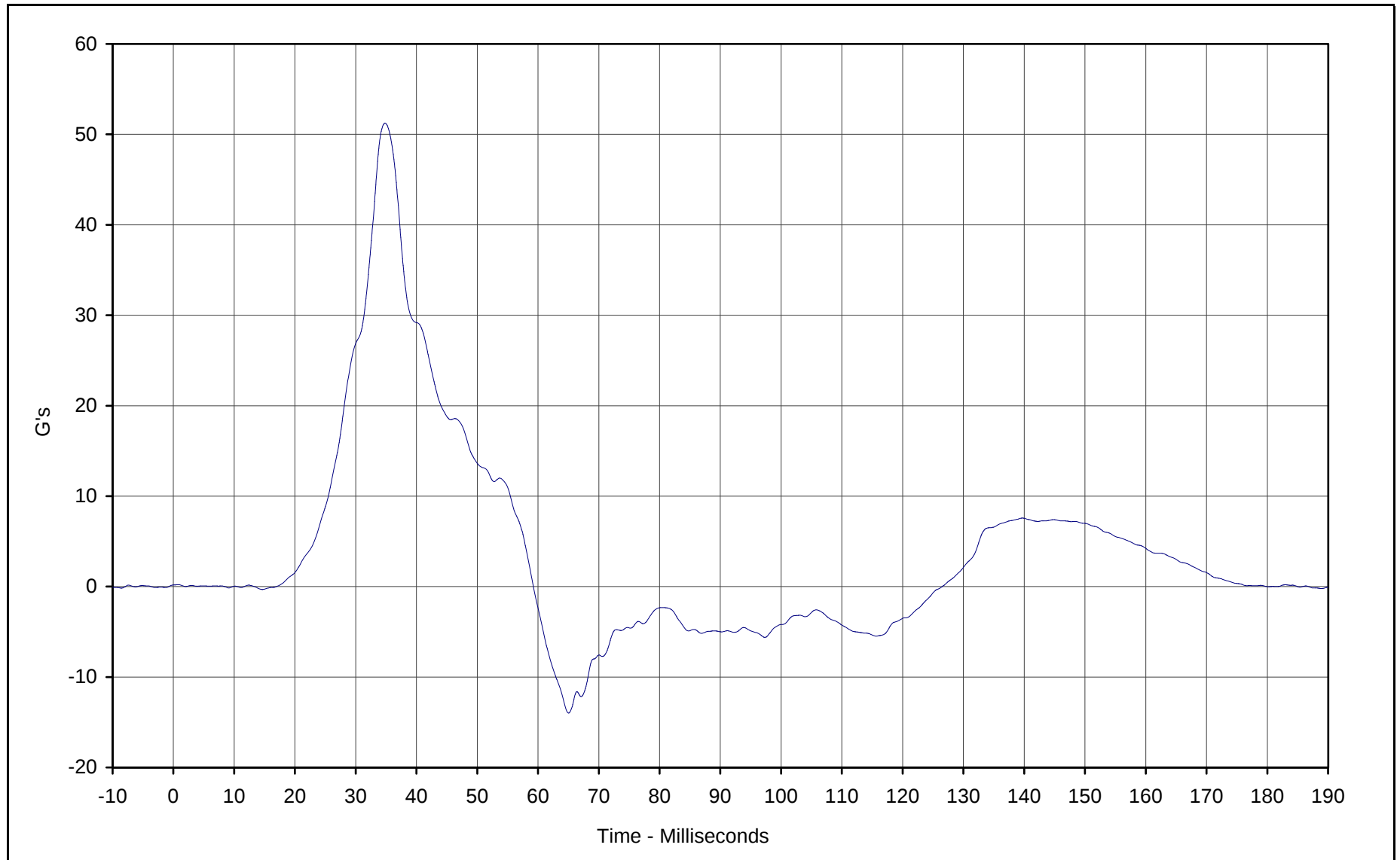
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Curve Number: IN1-009

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

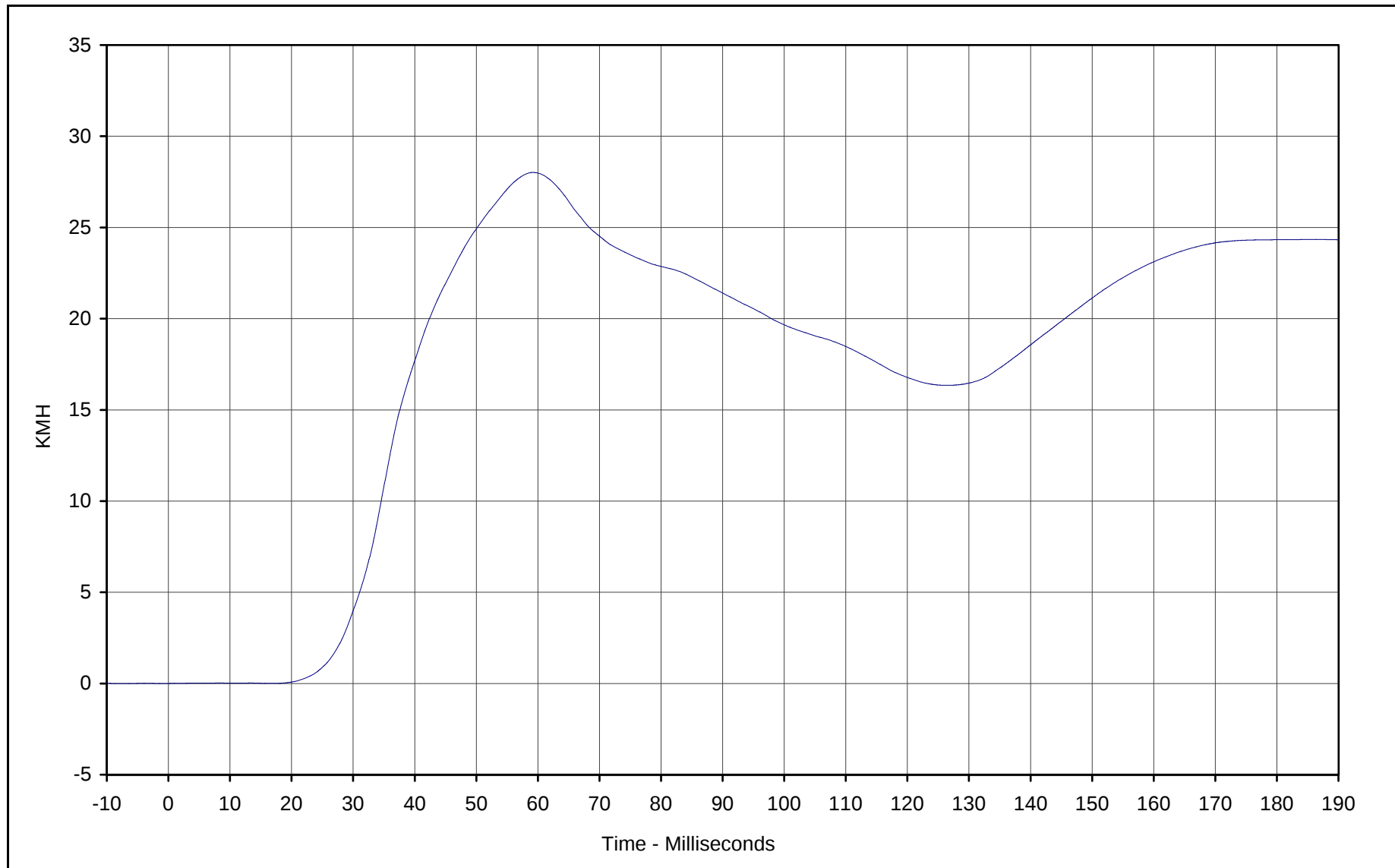




Curve Description: Driver Lower Spine Redundant Y
Maximum Value: 51.2 at 34.8 Milliseconds
Minimum Value: -14.0 at 65.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: FIL-010

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Driver Lower Spine Redundant Y Velocity

Maximum Value: 28.0 at 59.2 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

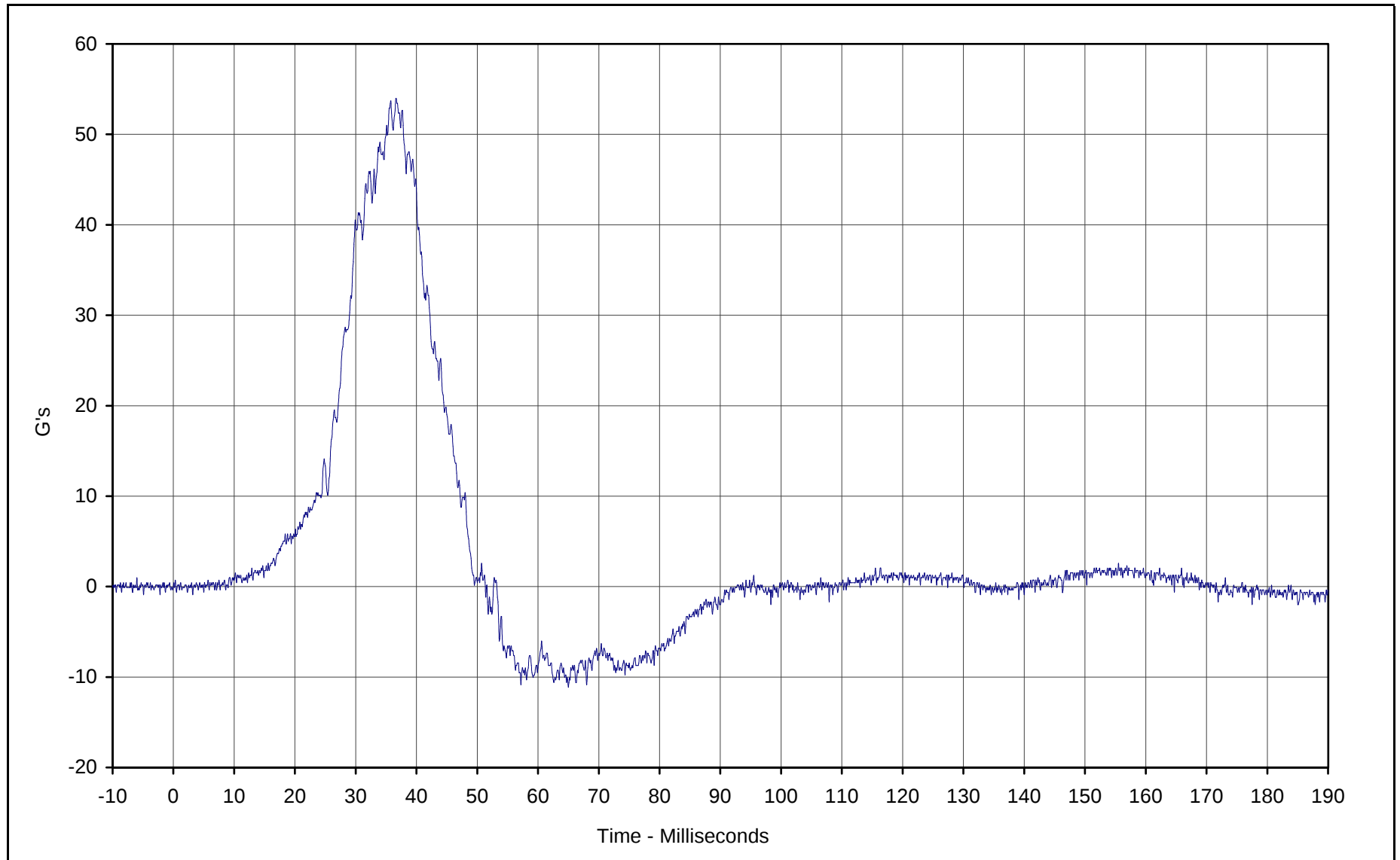
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Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

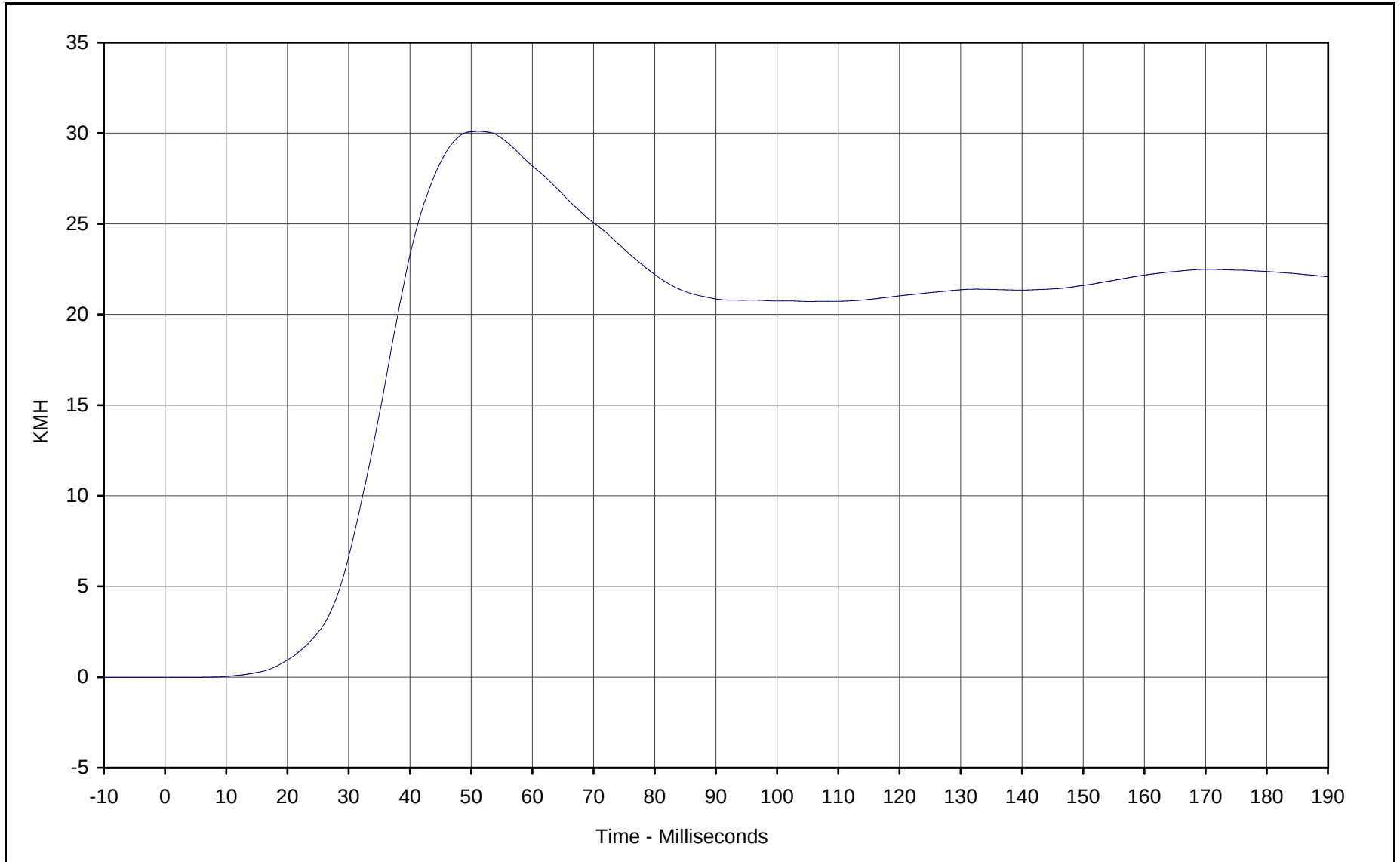




Curve Description: Driver Pelvis Redundant Y
Maximum Value: 54.0 at 36.6 Milliseconds
Minimum Value: -11.1 at 65.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-011

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

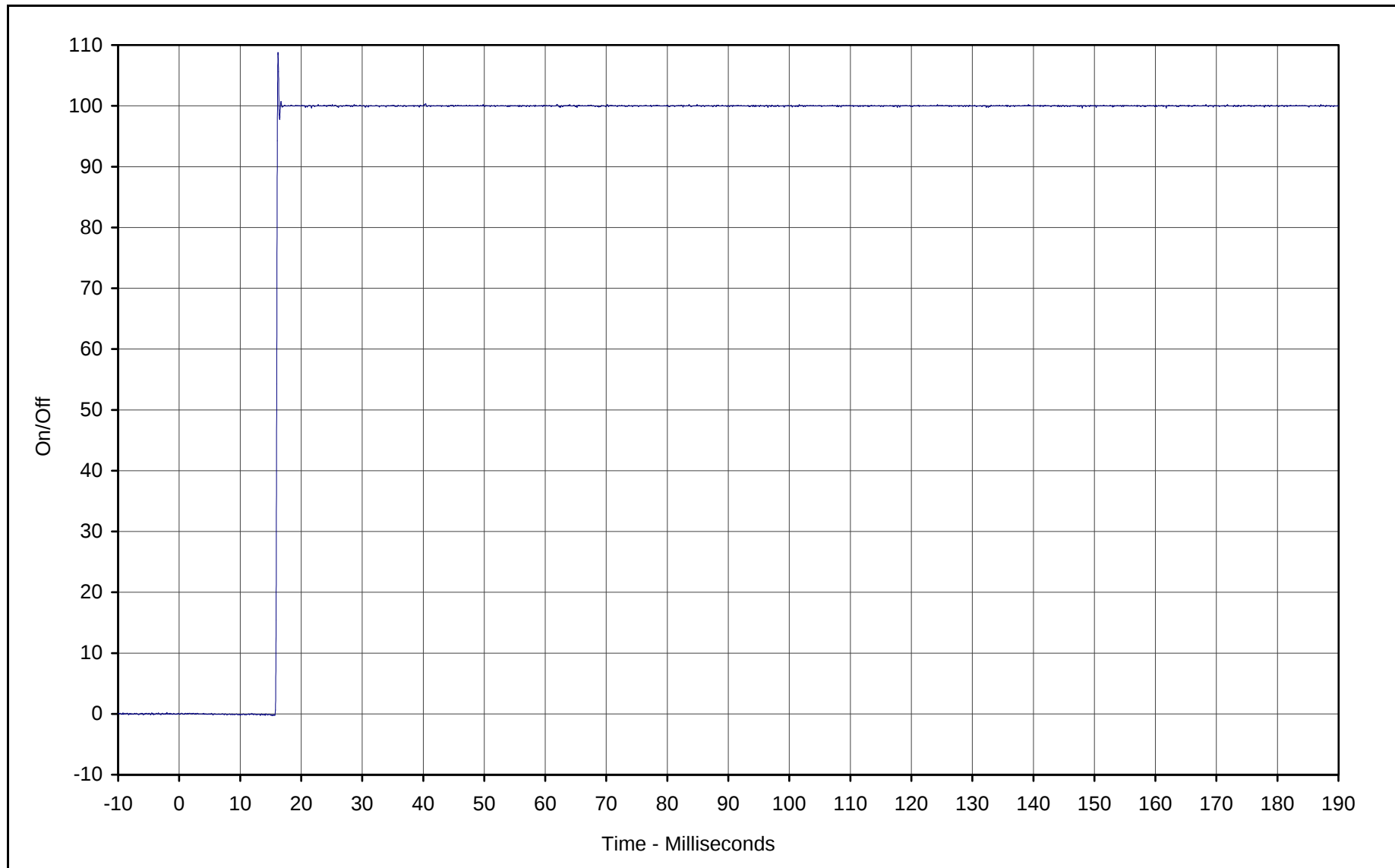




Curve Description: Driver Pelvis Redundant Y Velocity
Maximum Value: 30.1 at 51.3 Milliseconds
Minimum Value: 0.0 at 3.4 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-011

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

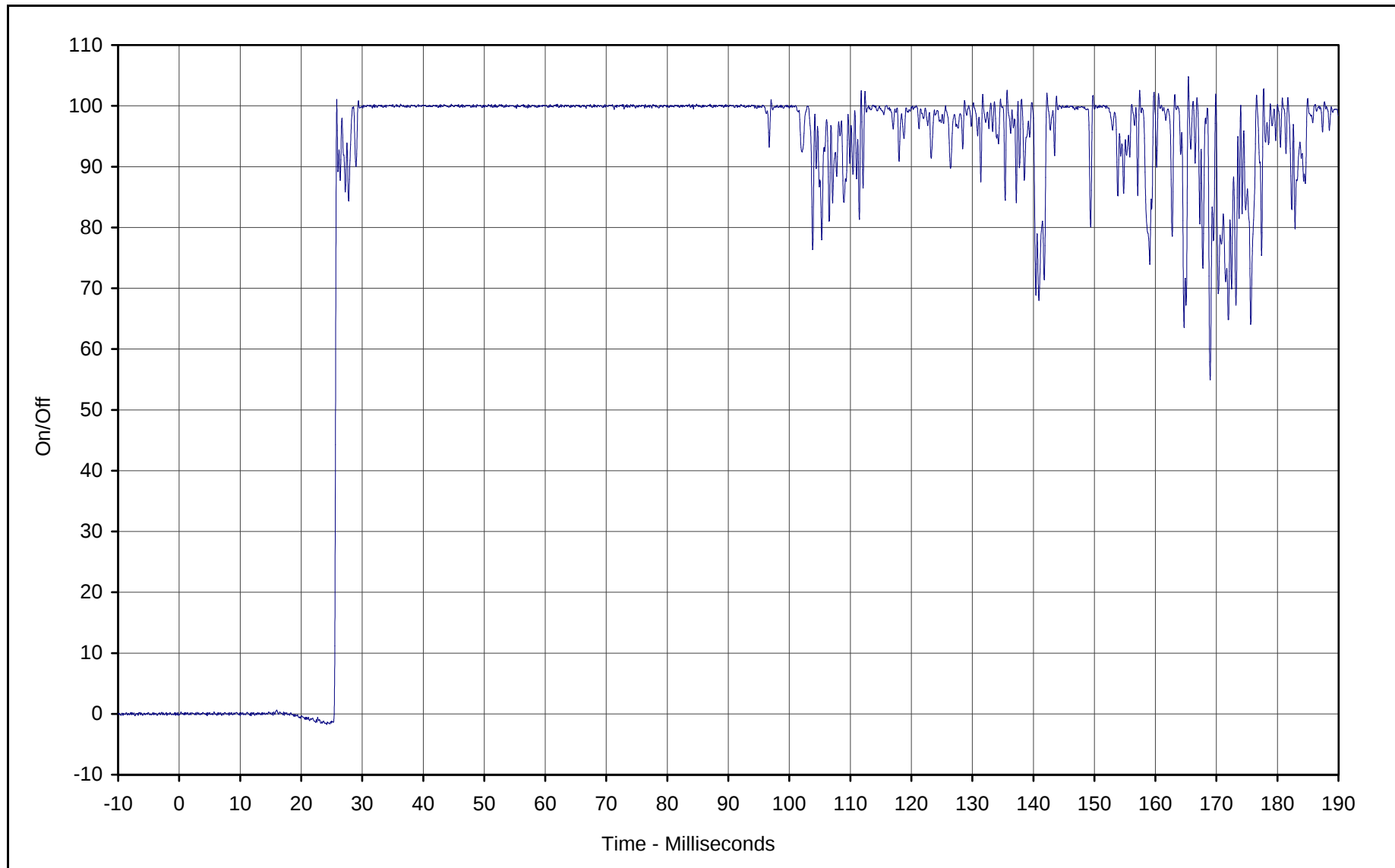




Curve Description: Driver Thorax Contact
Maximum Value: 108.4 at 16.2 Milliseconds
Crossing Point: 50% at 16.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-012

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

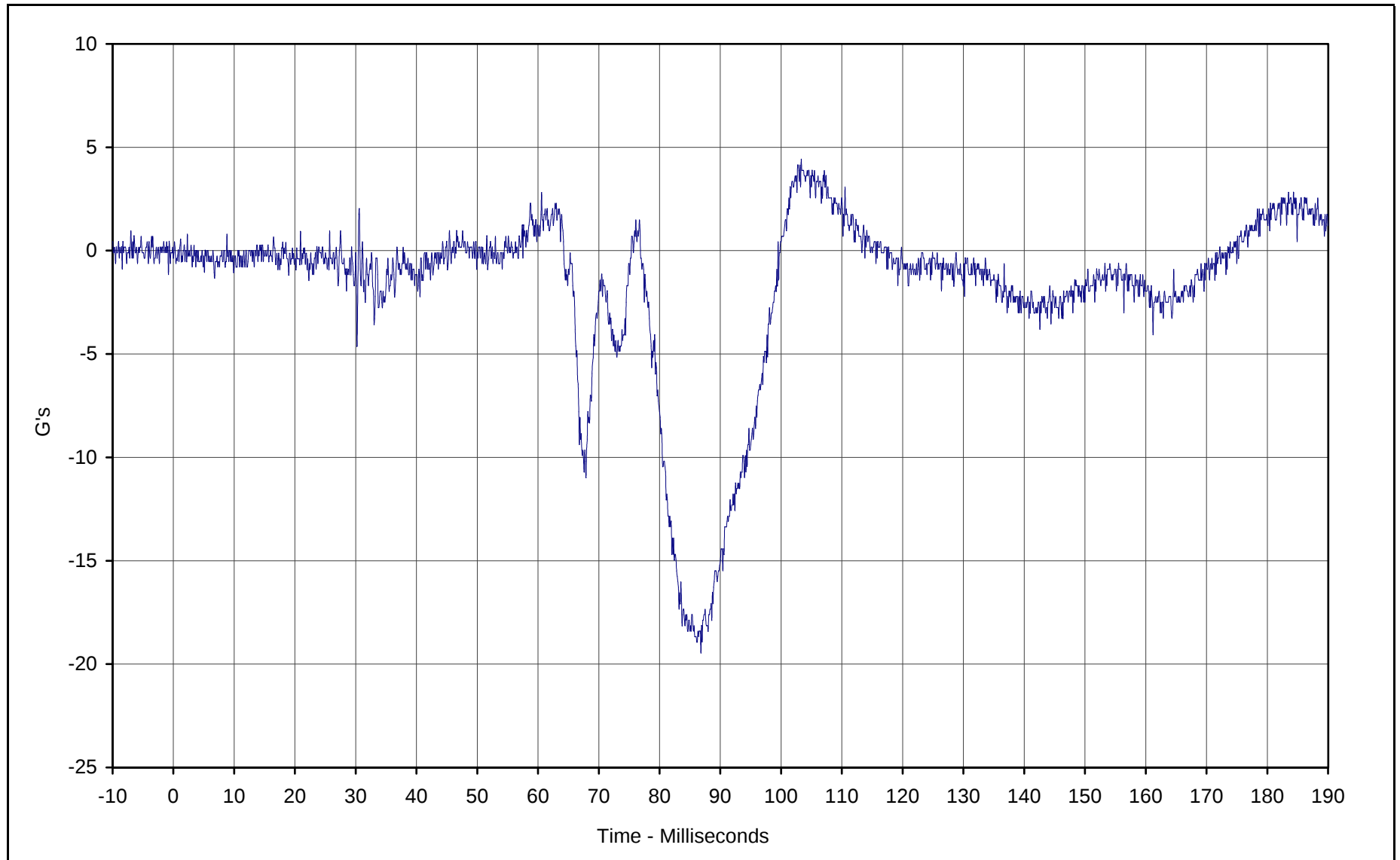




Curve Description: Driver Pelvis Contact
Maximum Value: 104.8 at 165.4 Milliseconds
Crossing Point: 50% at 25.7 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-013

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

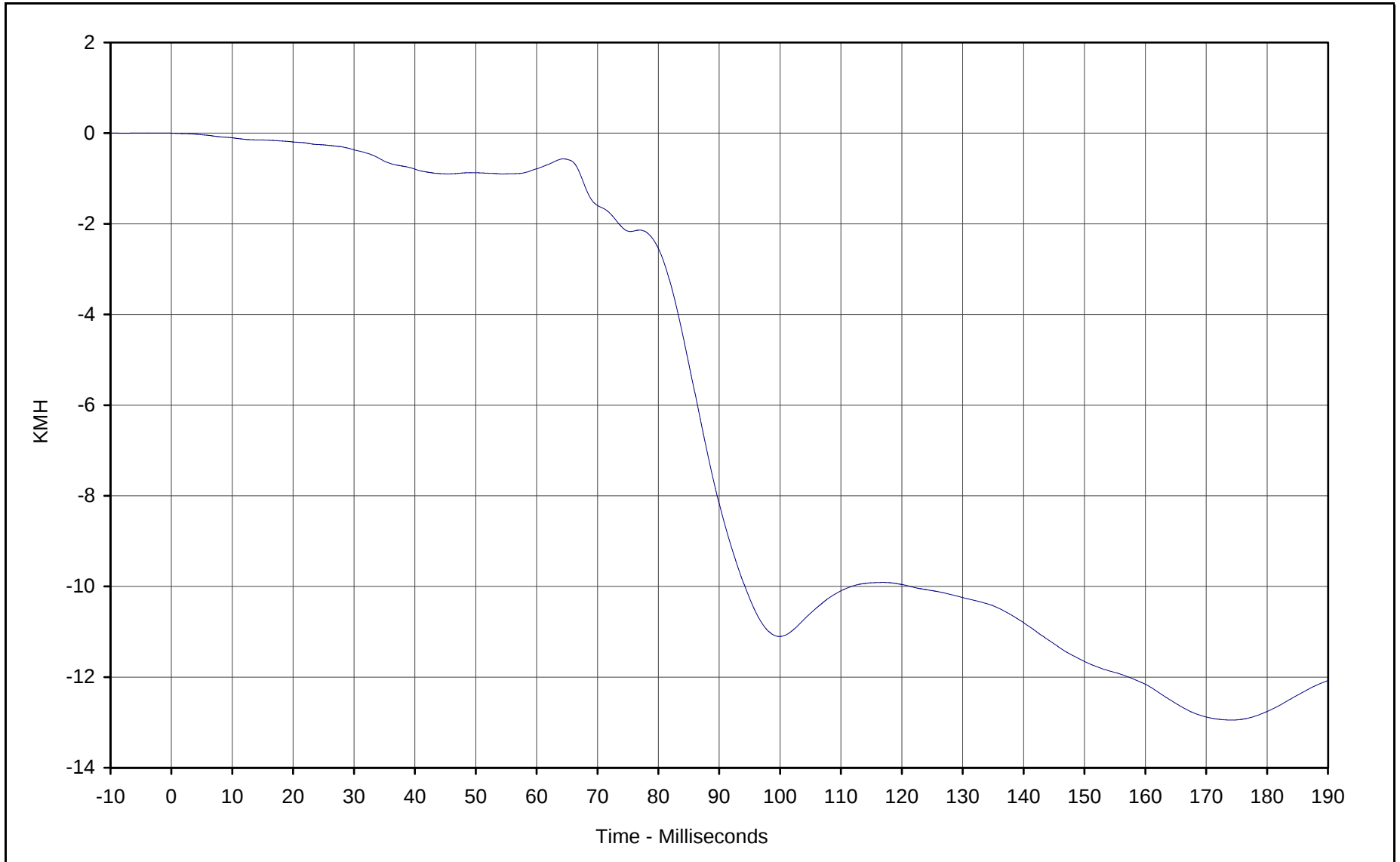




Curve Description: Pass. Head CG X
Maximum Value: 4.4 at 103.3 Milliseconds
Minimum Value: -19.5 at 86.8 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-014

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

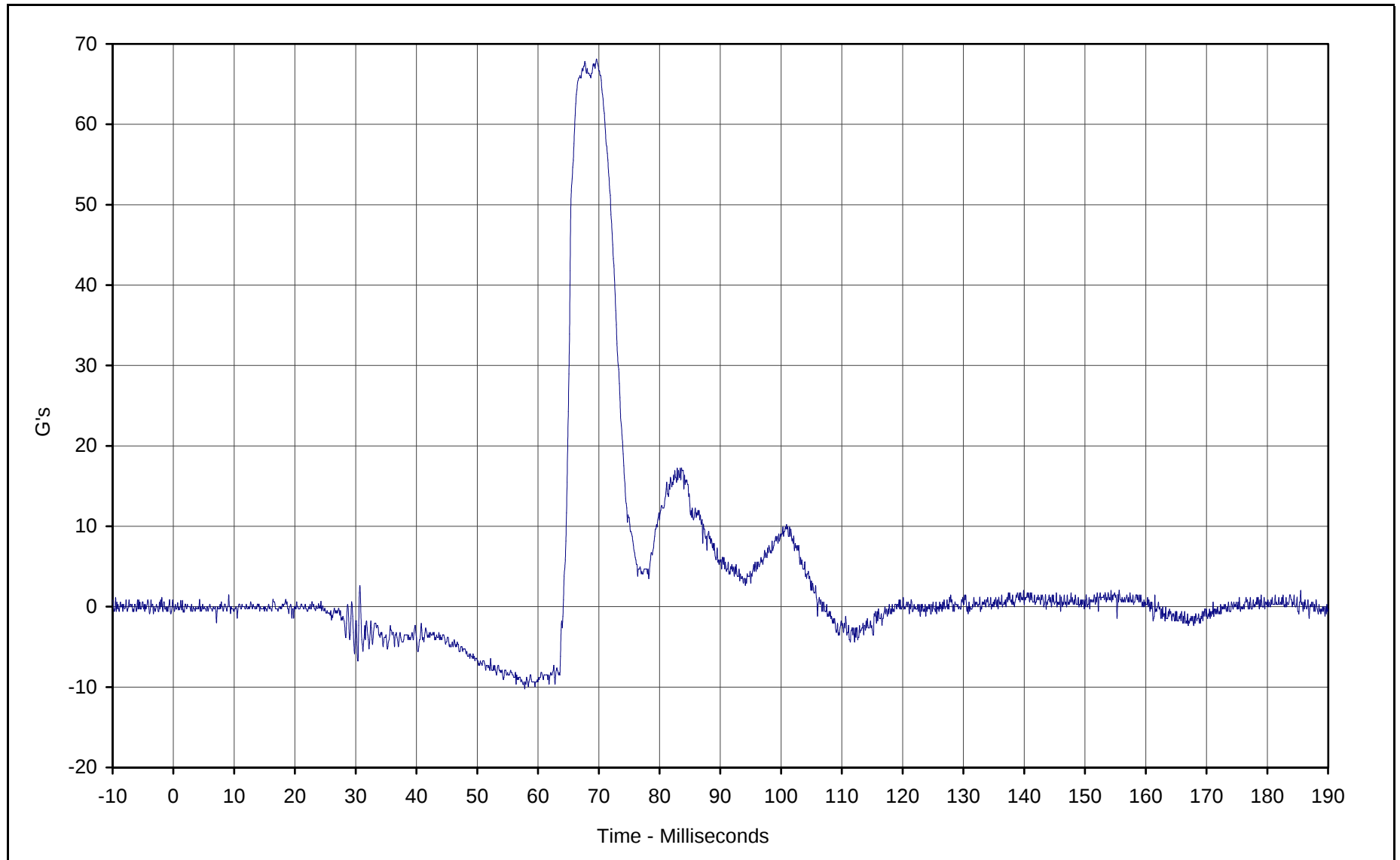




Curve Description: Pass. Head CG X Velocity
Maximum Value: 0.0 at 0.0 Milliseconds
Minimum Value: -12.9 at 174.1 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-014

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

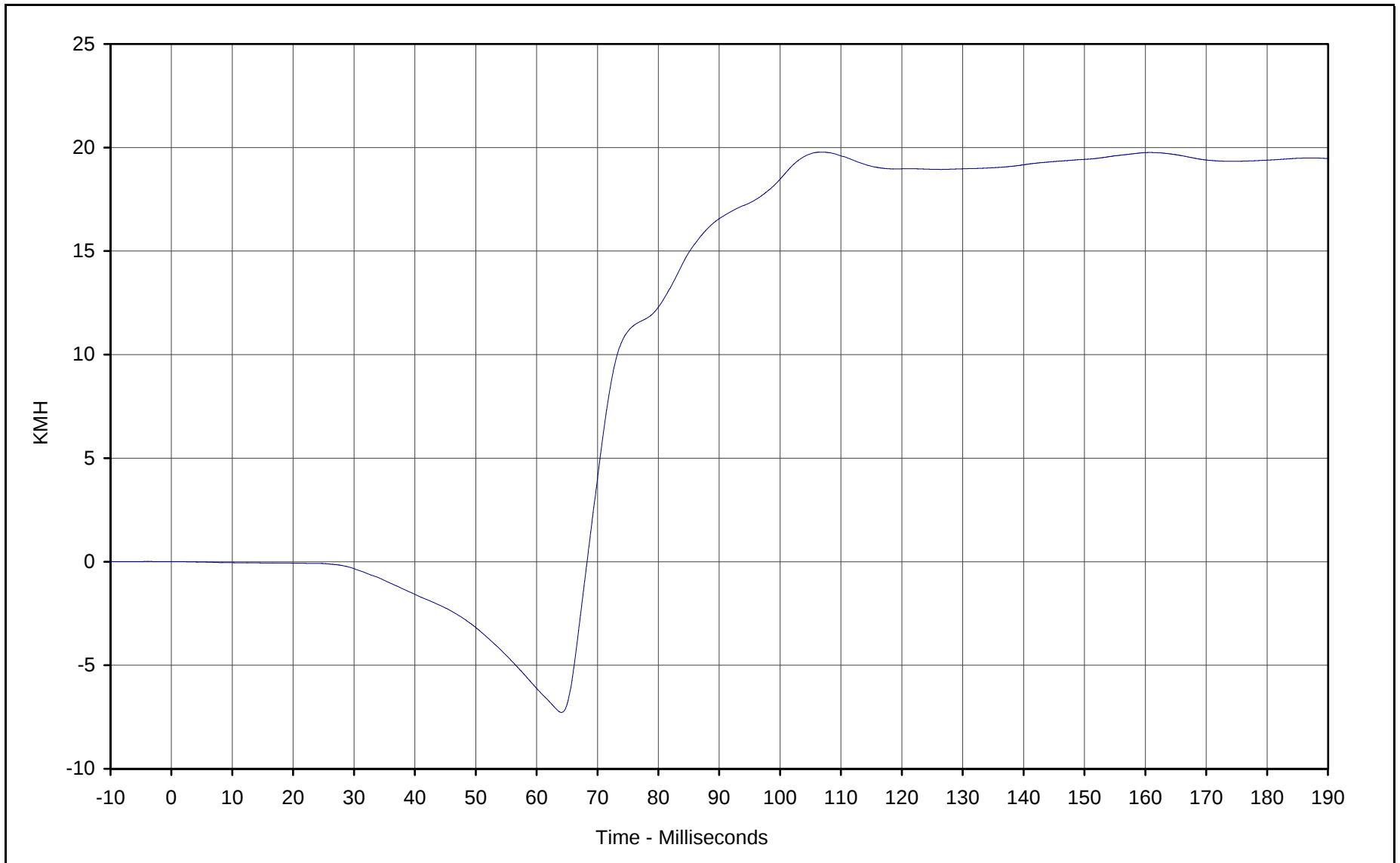




Curve Description: Pass. Head CG Y
Maximum Value: 68.1 at 69.6 Milliseconds
Minimum Value: -10.2 at 57.8 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-015

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

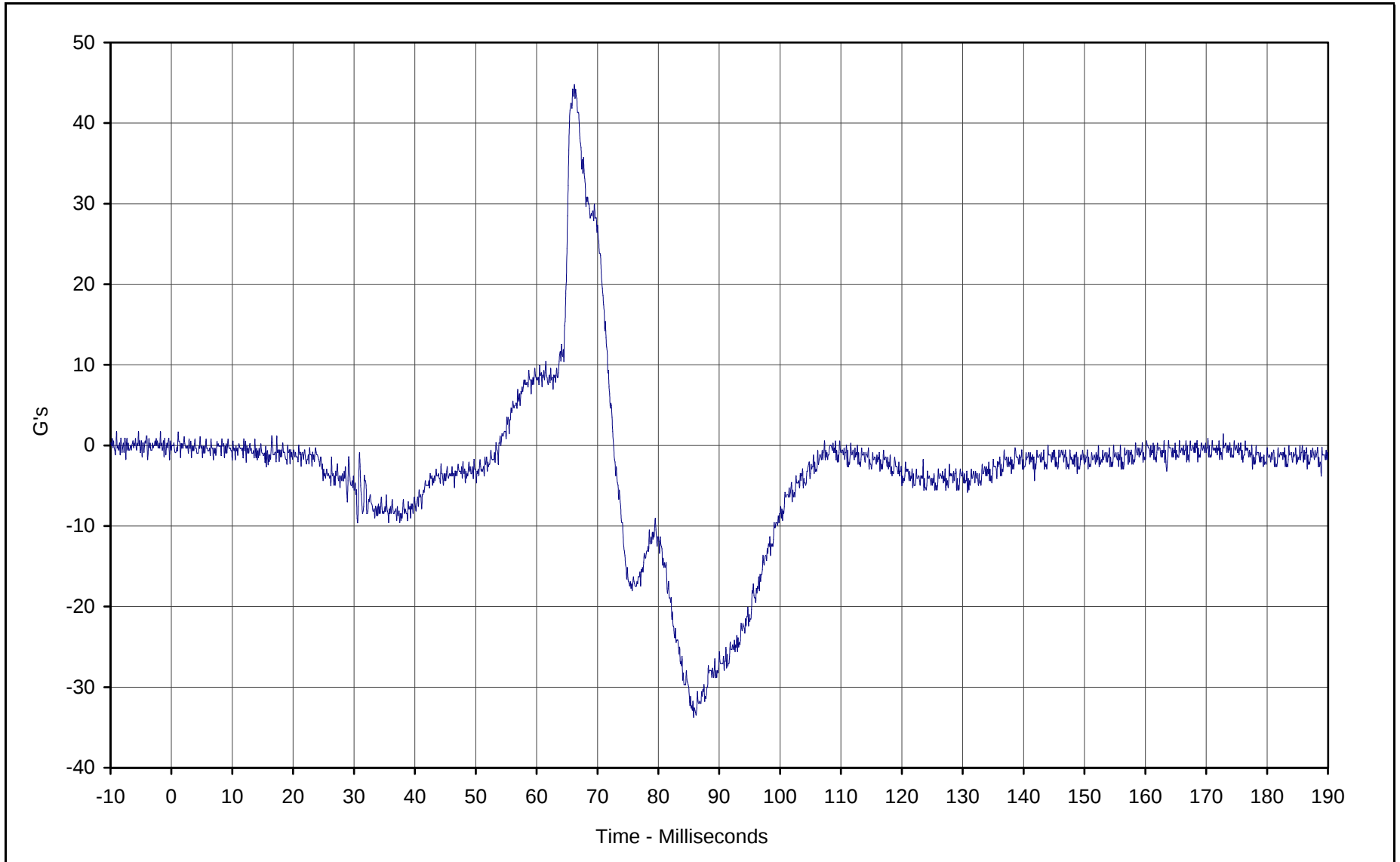




Curve Description: Pass. Head CG Y Velocity
Maximum Value: 19.8 at 106.9 Milliseconds
Minimum Value: -7.3 at 64.1 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-015

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

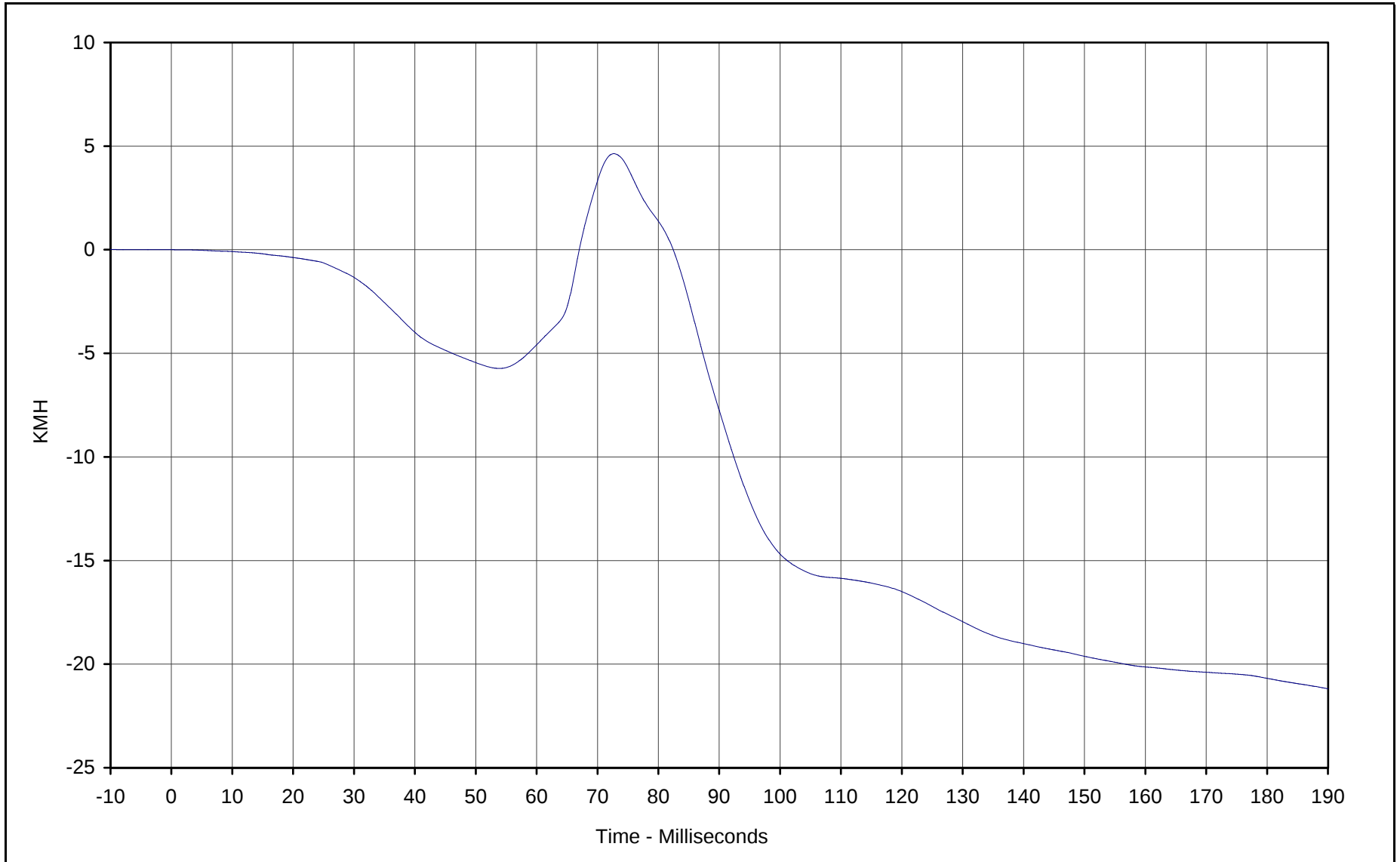




Curve Description: Pass. Head CG Z
Maximum Value: 44.8 at 66.2 Milliseconds
Minimum Value: -33.8 at 85.8 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-016

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

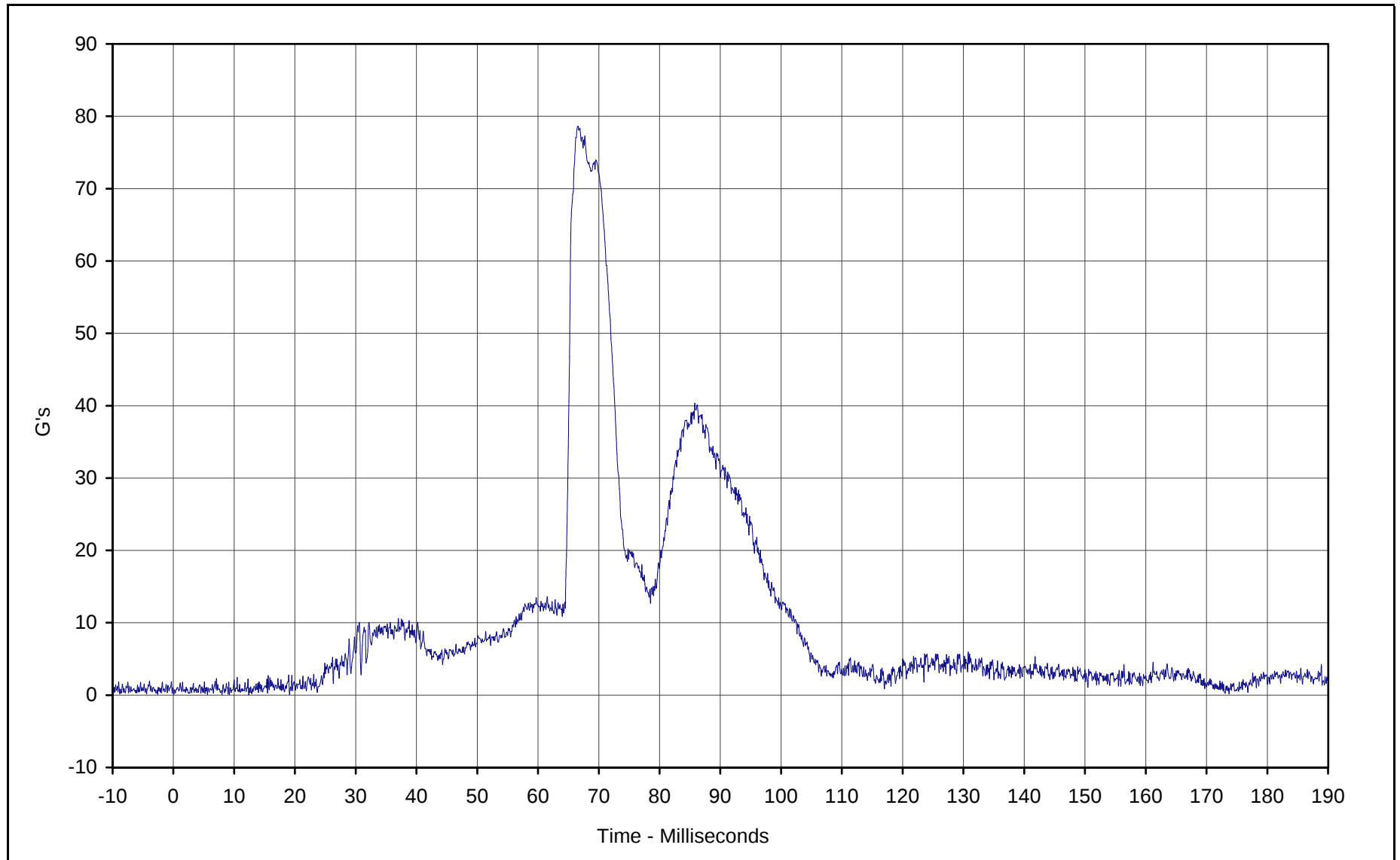




Curve Description: Pass. Head CG Z Velocity
Maximum Value: 4.6 at 72.7 Milliseconds
Minimum Value: -21.2 at 189.9 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-016

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

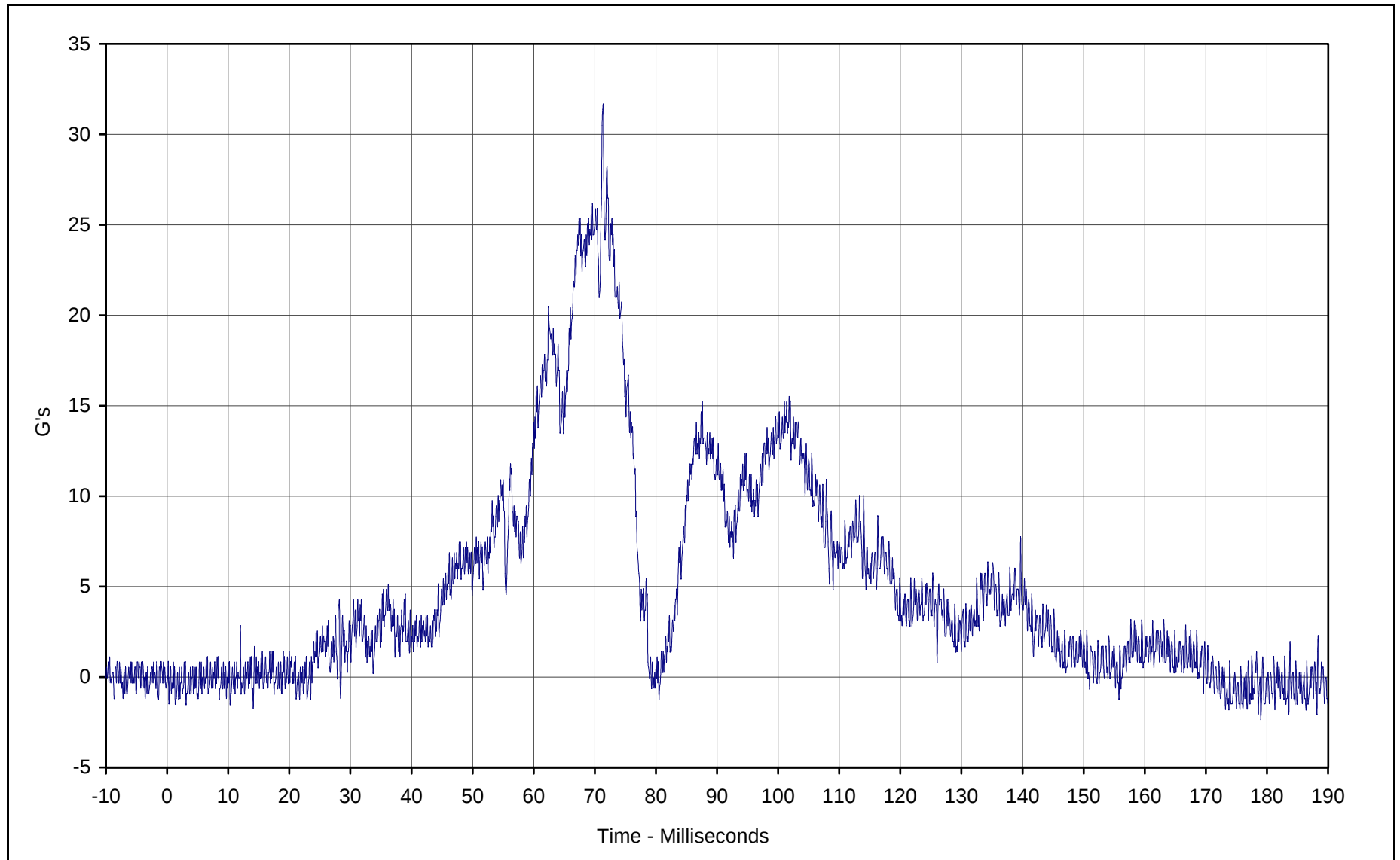




Curve Description: Pass. Head CG Resultant
Maximum Value: 78.6 at 66.6 Milliseconds
Minimum Value: 0.1 at 5.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: RES-014

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

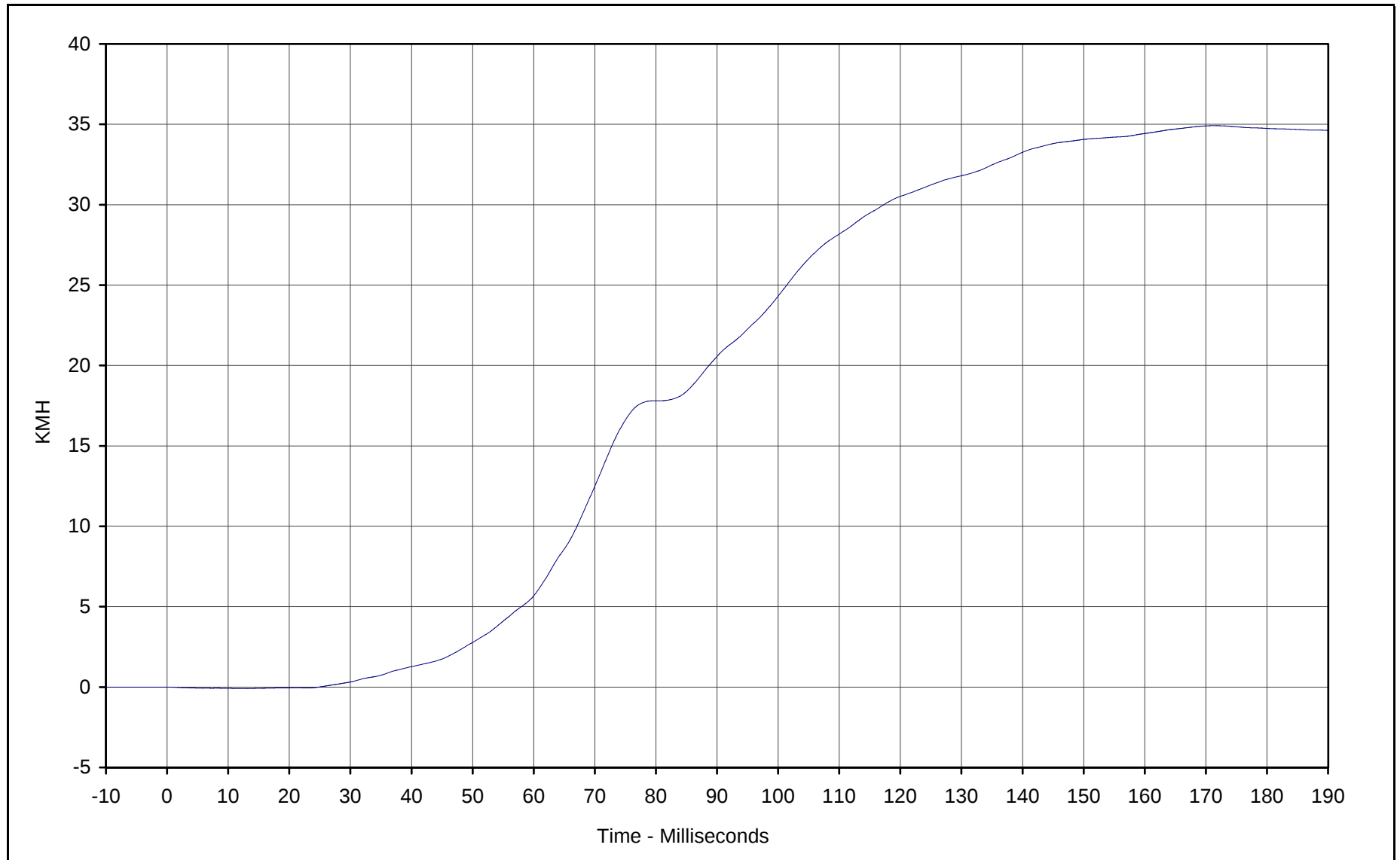




Curve Description: Pass. Upper Rib Primary Y
Maximum Value: 31.7 at 71.4 Milliseconds
Minimum Value: -2.3 at 179.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-017

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Upper Rib Primary Y Velocity

Maximum Value: 34.9 at 171.5 Milliseconds

Minimum Value: -0.1 at 11.4 Milliseconds

SAE Filter Class: 180

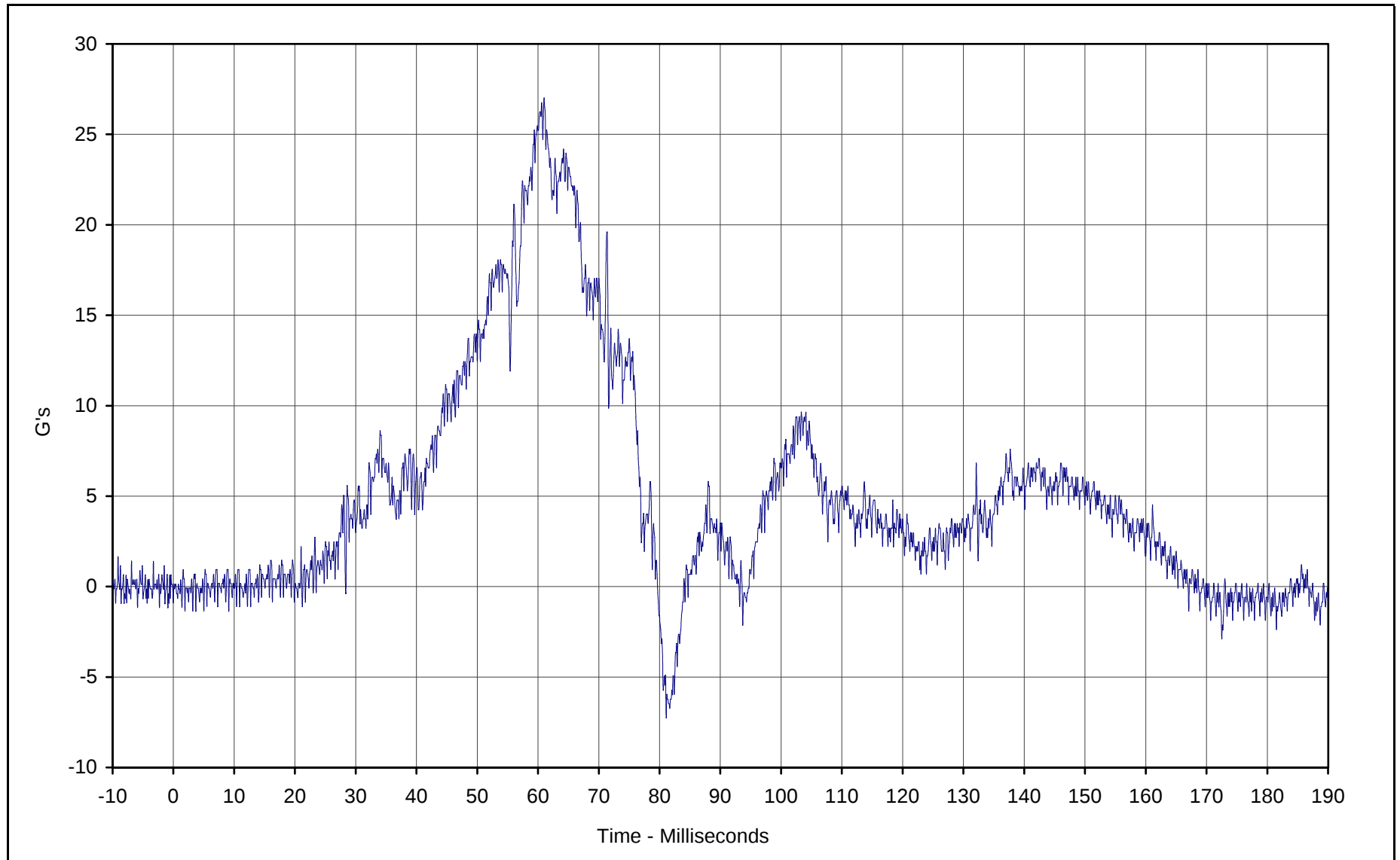
Date of Test: 02/01/01

Curve Number: IN1-017

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

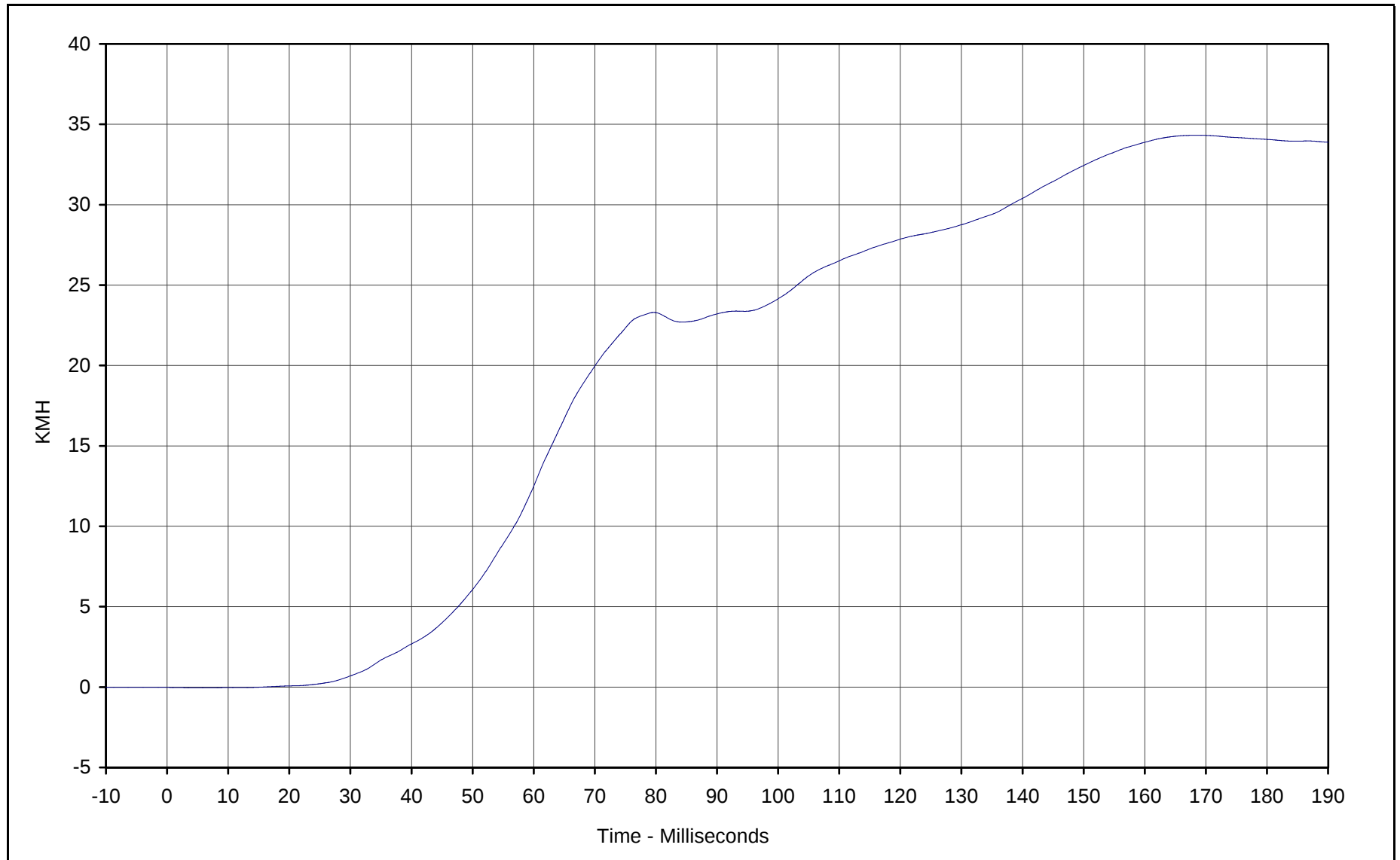




Curve Description: Pass. Lower Rib Primary Y
Maximum Value: 27.0 at 61.0 Milliseconds
Minimum Value: -7.2 at 81.1 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-018

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Lower Rib Primary Y Velocity

Maximum Value: 34.3 at 168.7 Milliseconds

Minimum Value: 0.0 at 6.1 Milliseconds

SAE Filter Class: 180

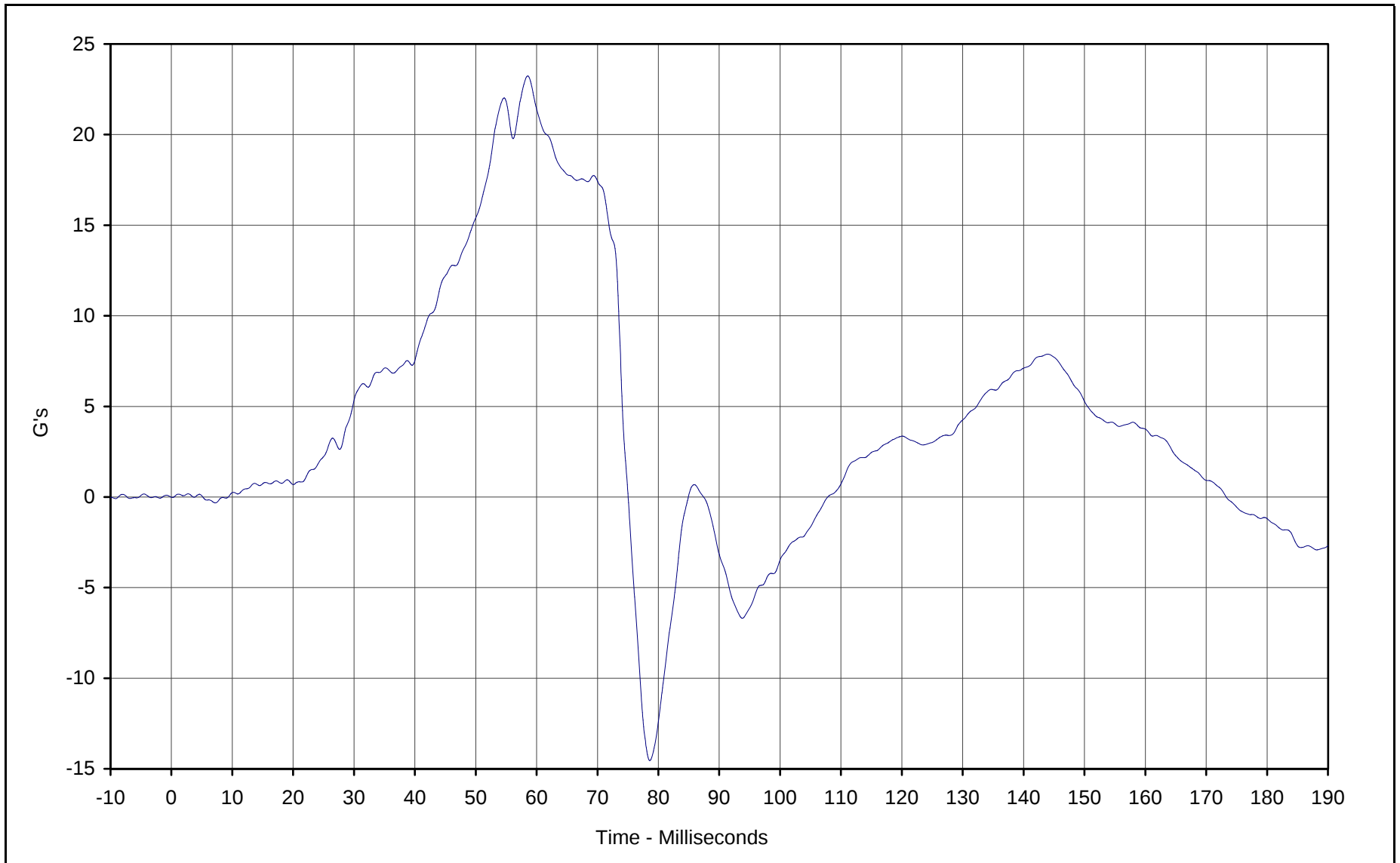
Date of Test: 02/01/01

Curve Number: IN1-018

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

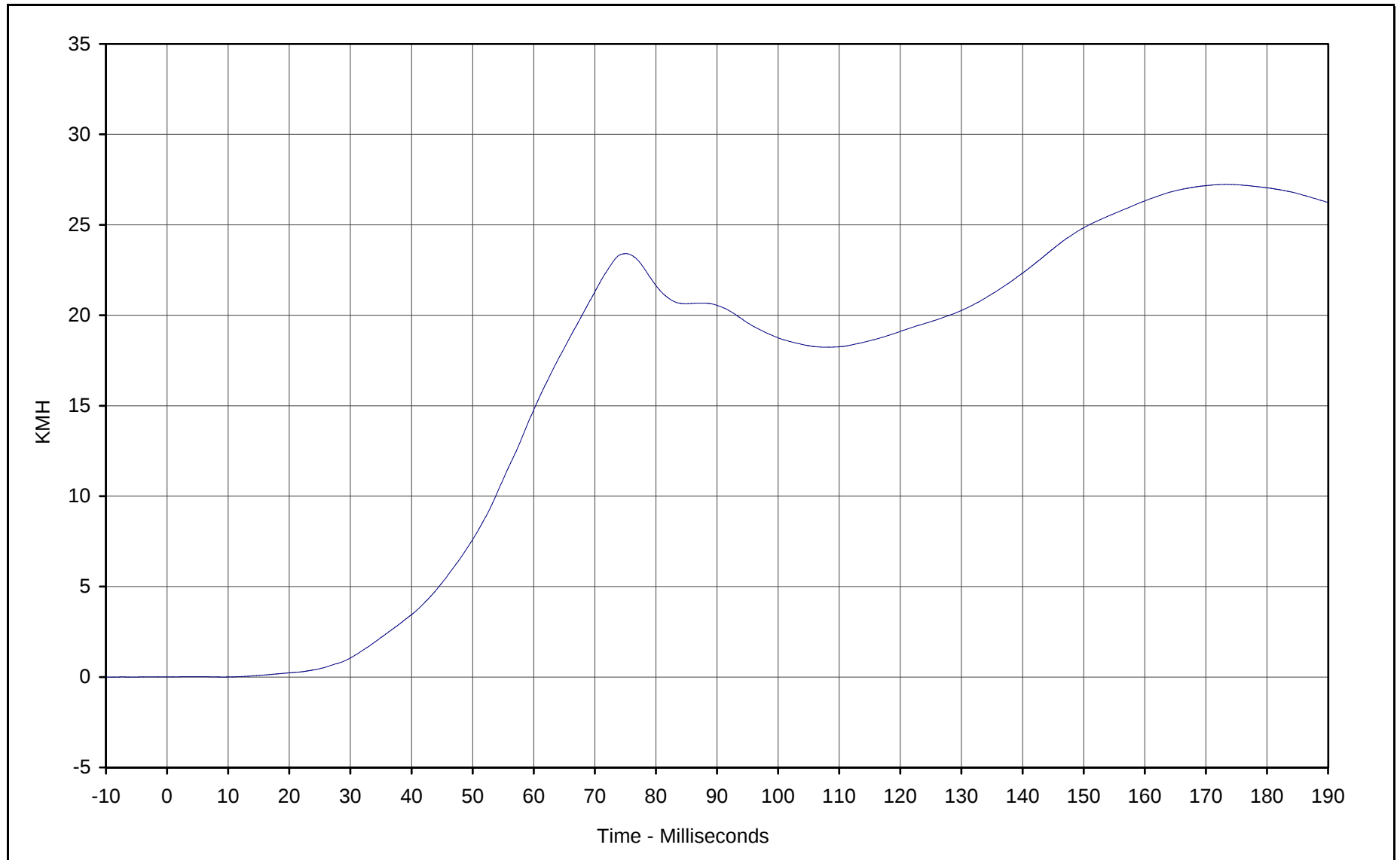




Curve Description: Pass. Lower Spine Primary Y
Maximum Value: 23.2 at 58.5 Milliseconds
Minimum Value: -14.5 at 78.6 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: FIL-019

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Lower Spine Primary Y Velocity

Maximum Value: 27.2 at 173.3 Milliseconds

Minimum Value: 0.0 at 9.3 Milliseconds

SAE Filter Class: 180

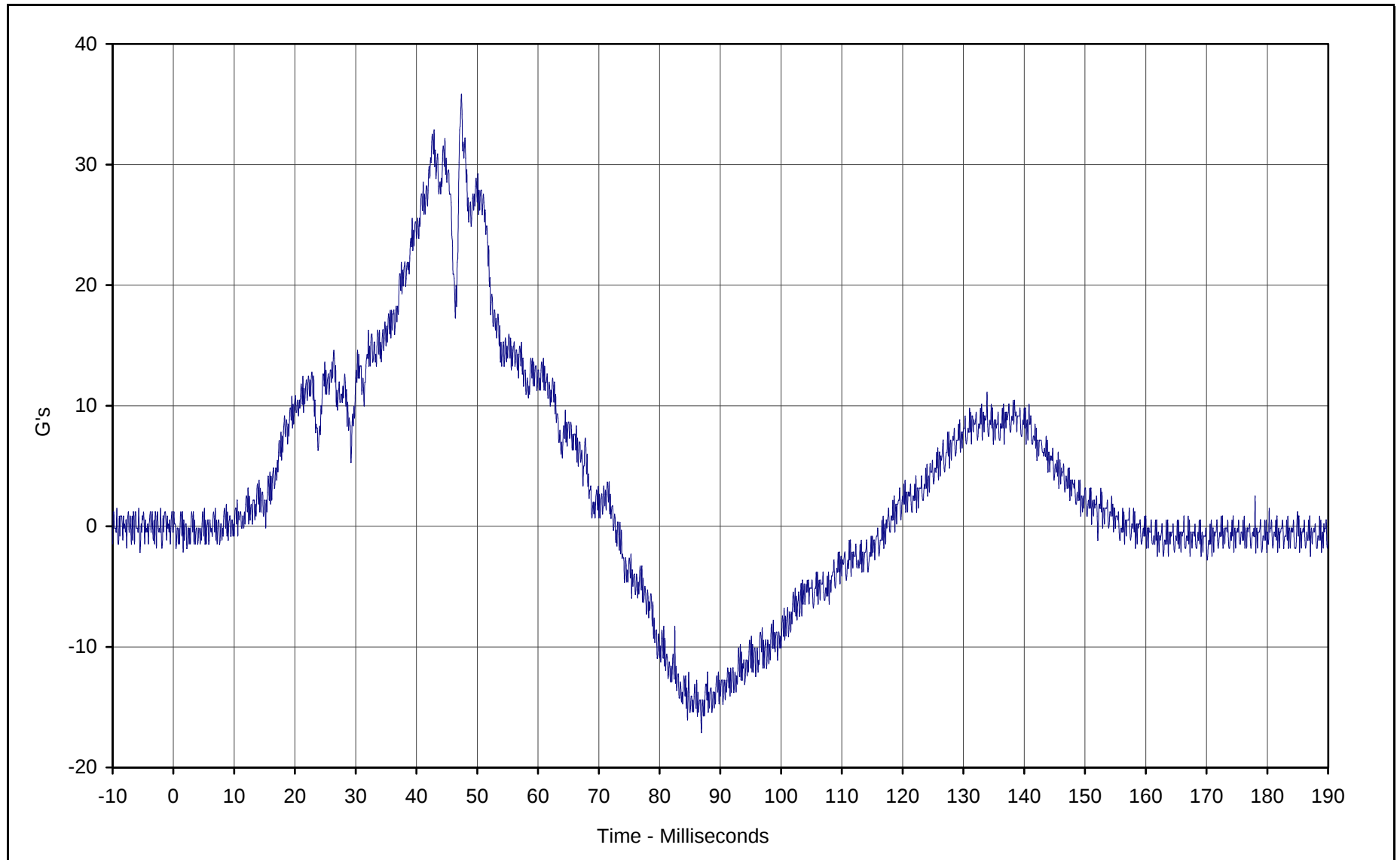
Date of Test: 02/01/01

Curve Number: IN1-019

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

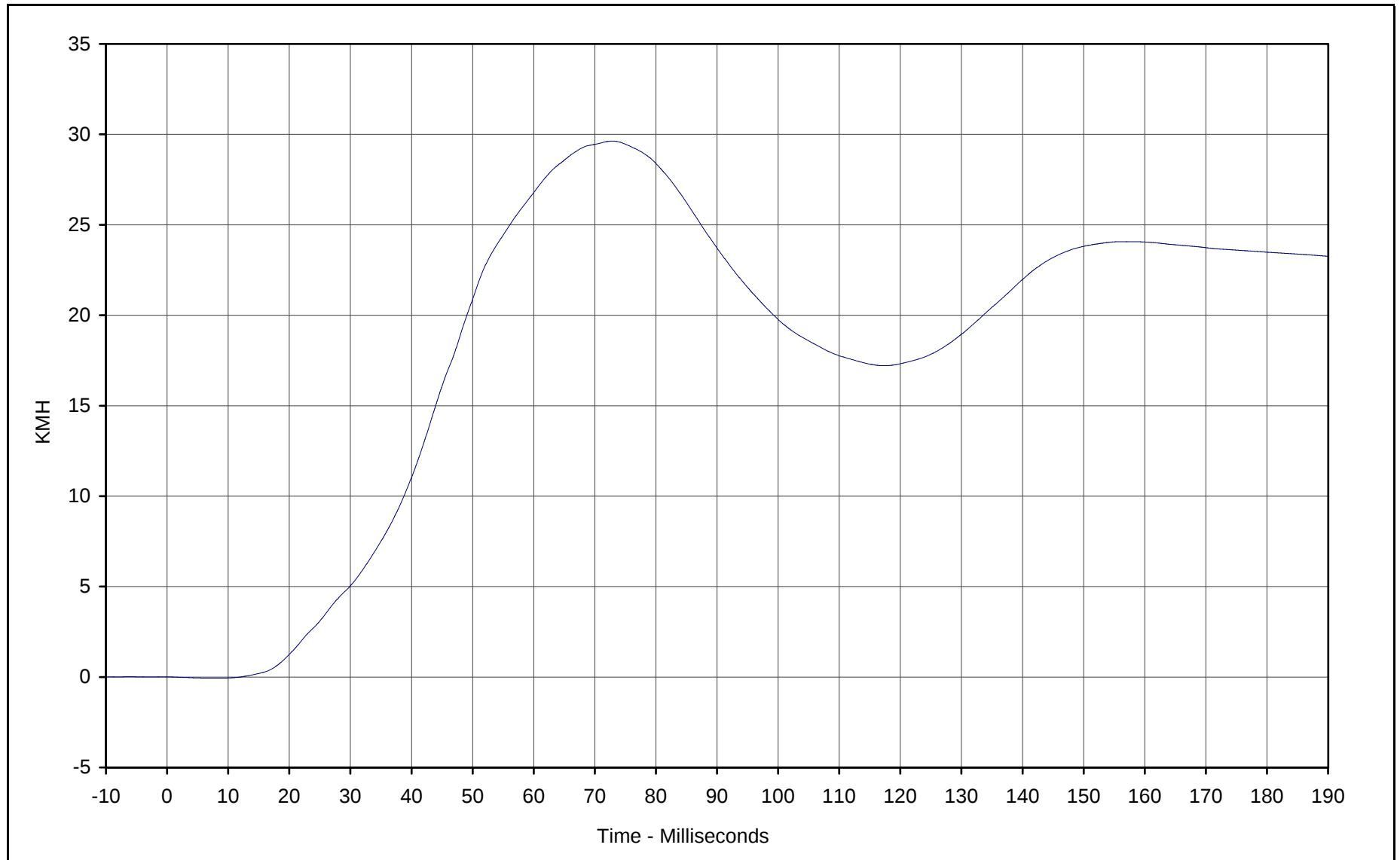




Curve Description: Pass. Pelvis Primary Y
Maximum Value: 35.8 at 47.4 Milliseconds
Minimum Value: -17.1 at 86.9 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-020

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

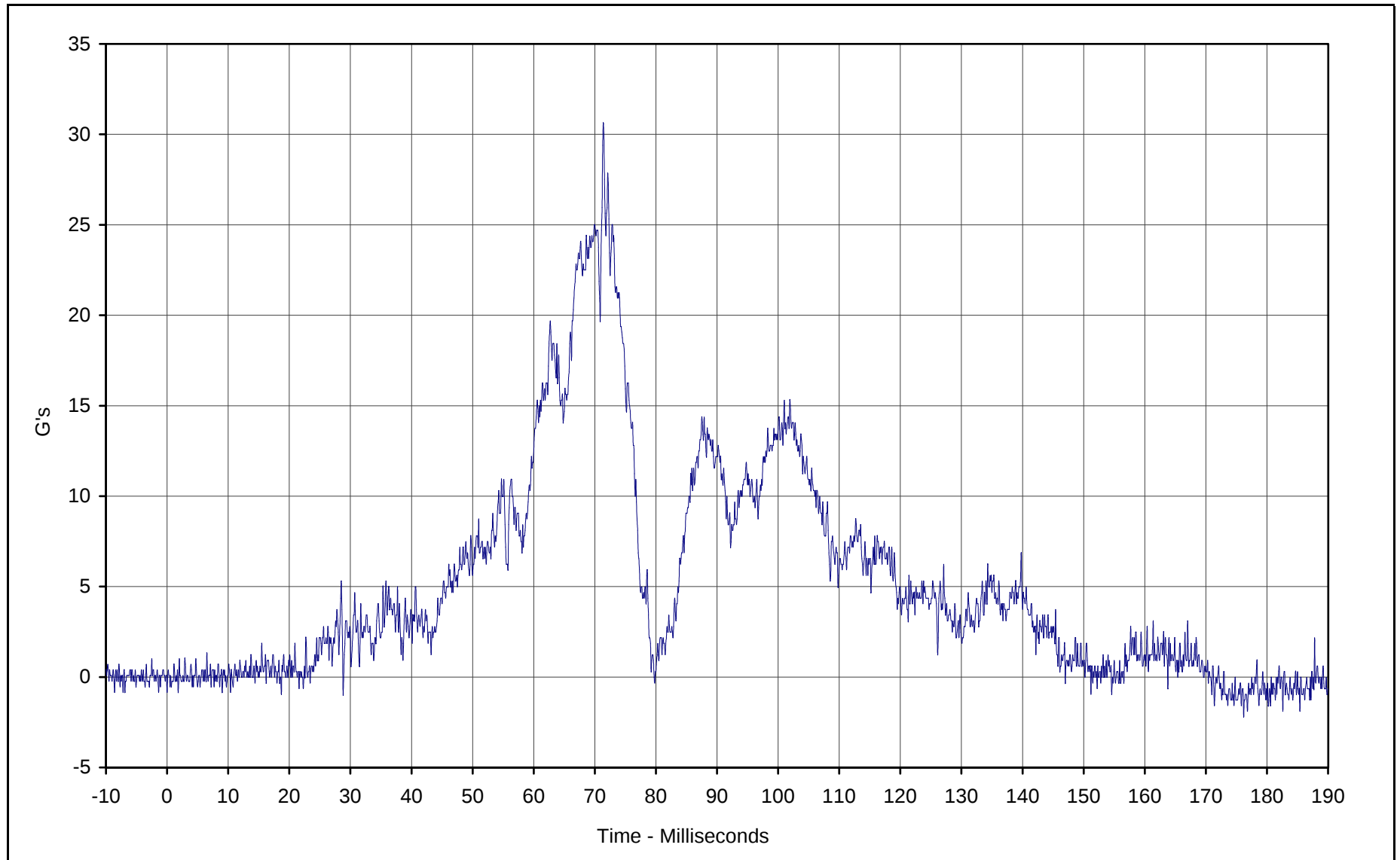




Curve Description: Pass. Pelvis Primary Y Velocity
Maximum Value: 29.6 at 72.8 Milliseconds
Minimum Value: -0.1 at 8.1 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-020

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

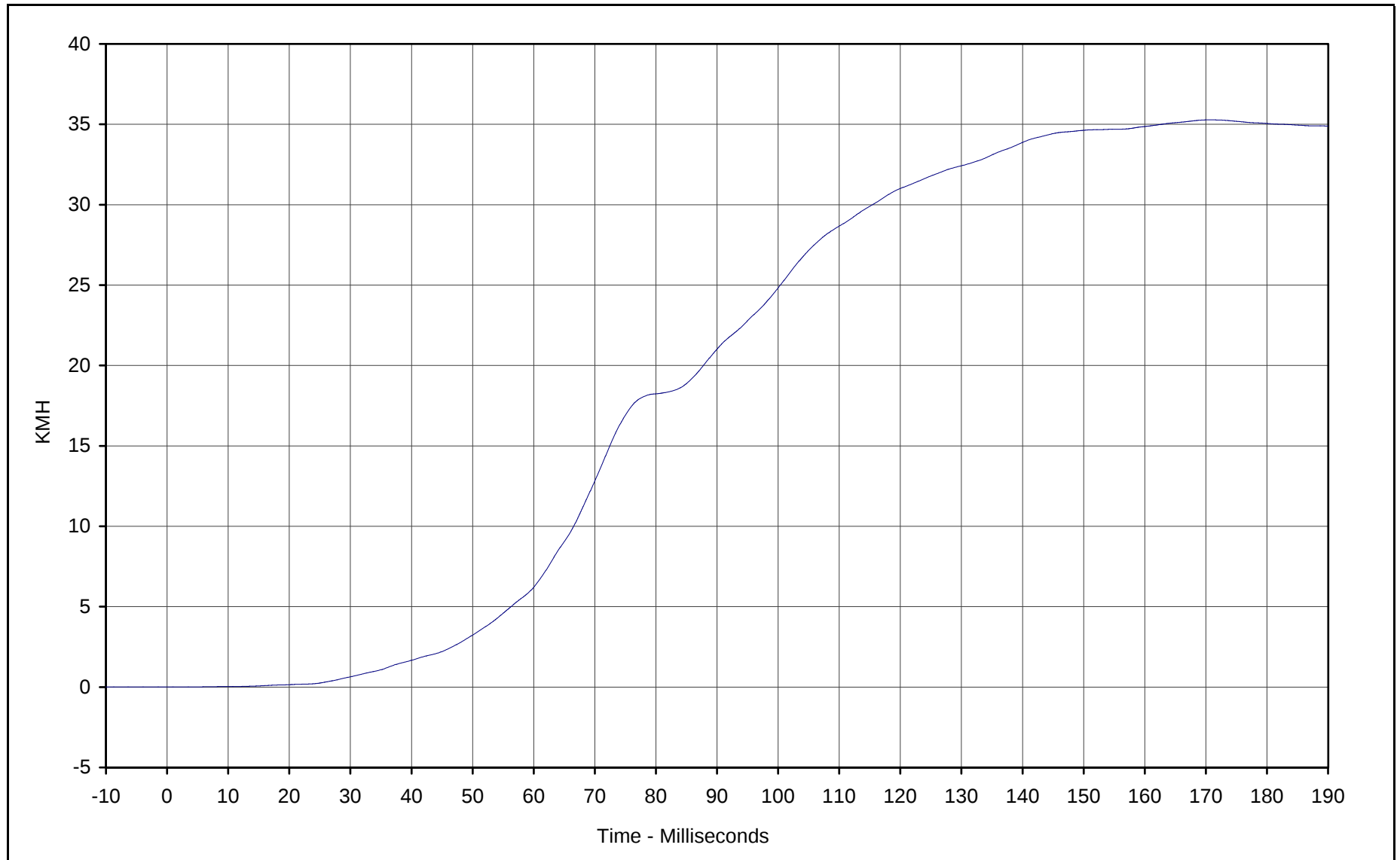




Curve Description: Pass. Upper Rib Redundant Y
Maximum Value: 30.6 at 71.4 Milliseconds
Minimum Value: -2.2 at 176.2 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-021

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Upper Rib Redundant Y Velocity

Maximum Value: 35.3 at 170.7 Milliseconds

Minimum Value: 0.0 at 1.9 Milliseconds

SAE Filter Class: 180

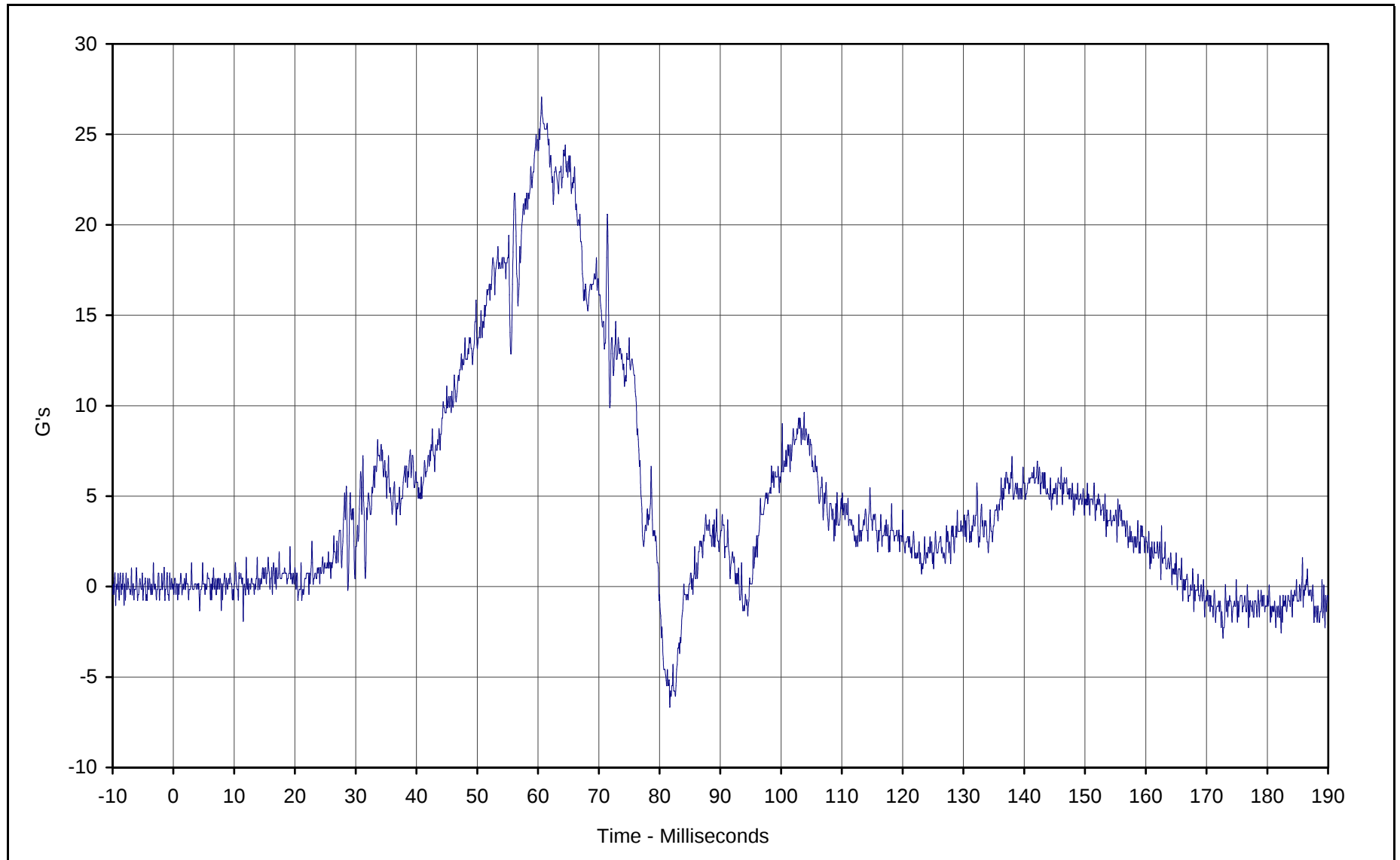
Date of Test: 02/01/01

Curve Number: IN1-021

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

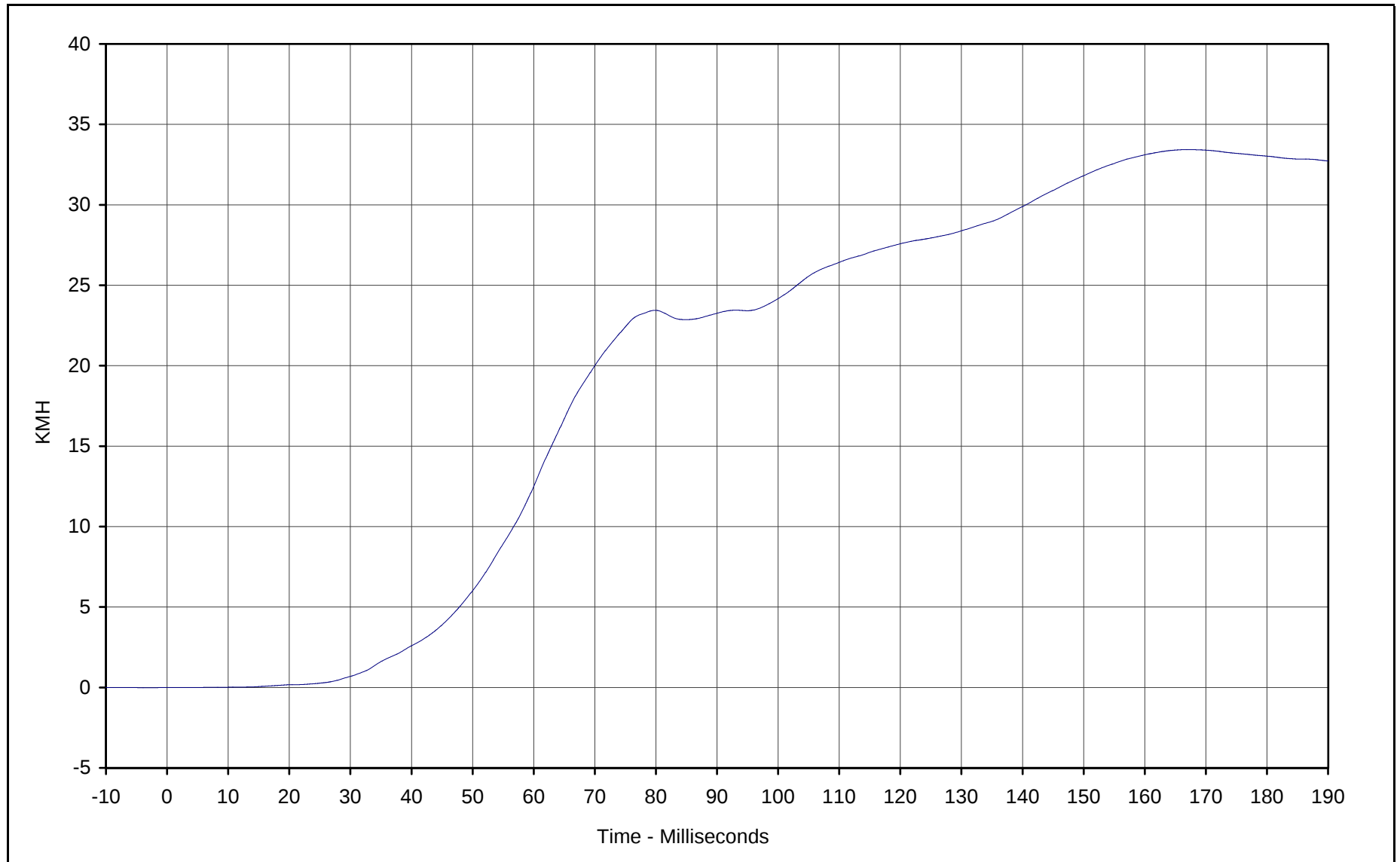




Curve Description: Pass. Lower Rib Redundant Y
Maximum Value: 27.1 at 60.6 Milliseconds
Minimum Value: -6.7 at 81.7 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-022

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Lower Rib Redundant Y Velocity

Maximum Value: 33.4 at 166.9 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

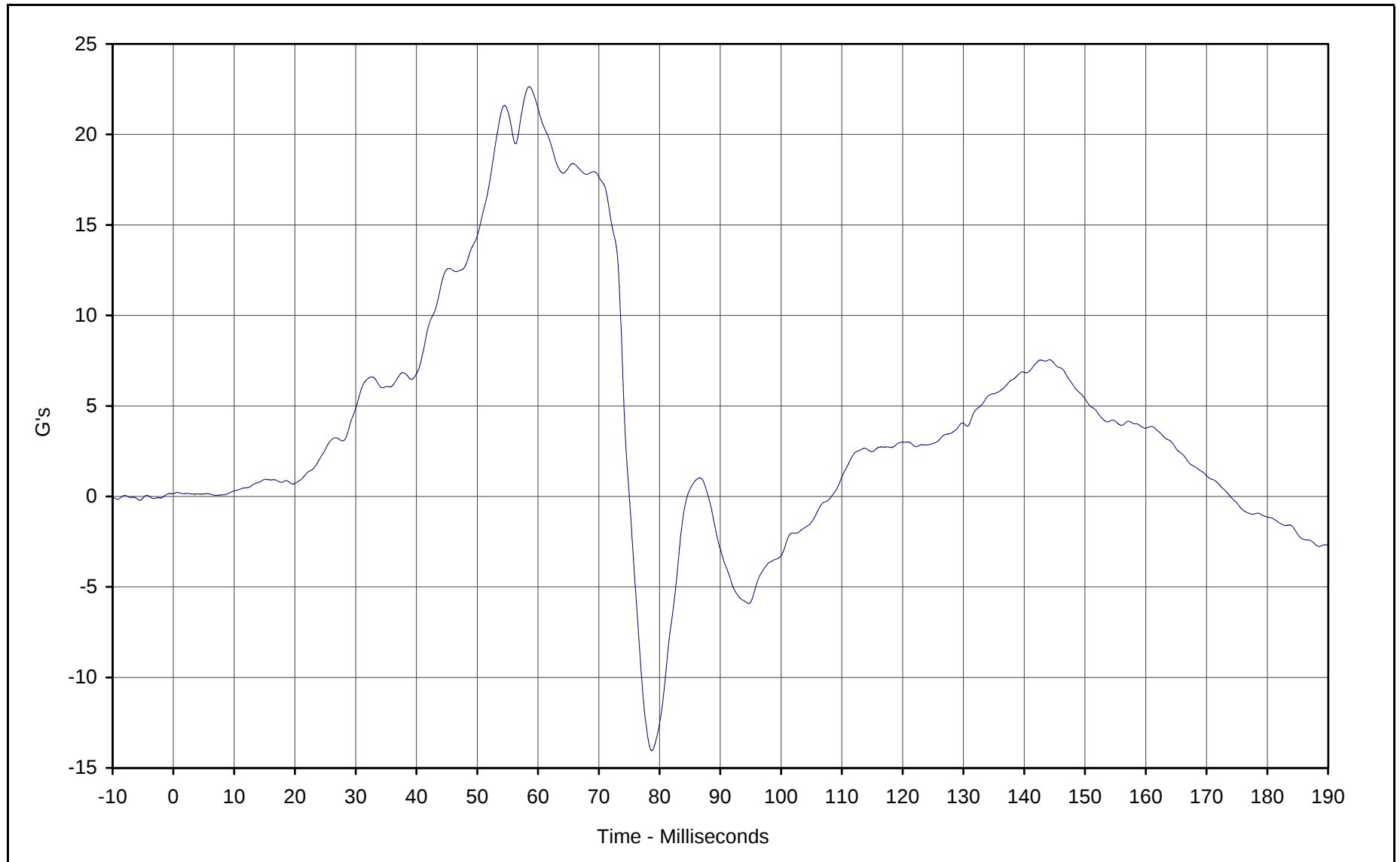
Date of Test: 02/01/01

Curve Number: IN1-022

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

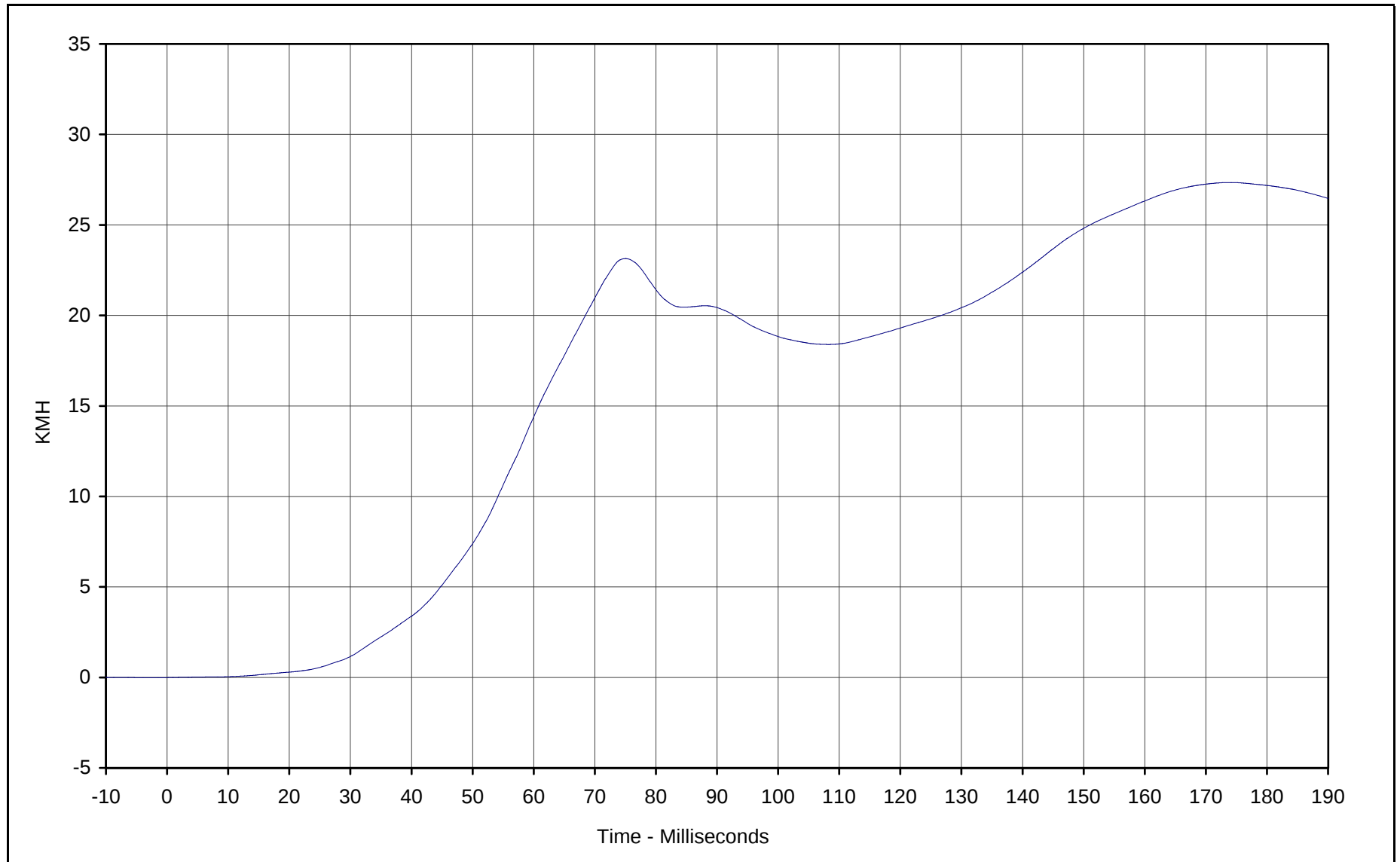




Curve Description: Pass. Lower Spine Redundant Y
Maximum Value: 22.6 at 58.5 Milliseconds
Minimum Value: -14.0 at 78.7 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: FIL-023

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Lower Spine Redundant Y Velocity

Maximum Value: 27.3 at 173.9 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

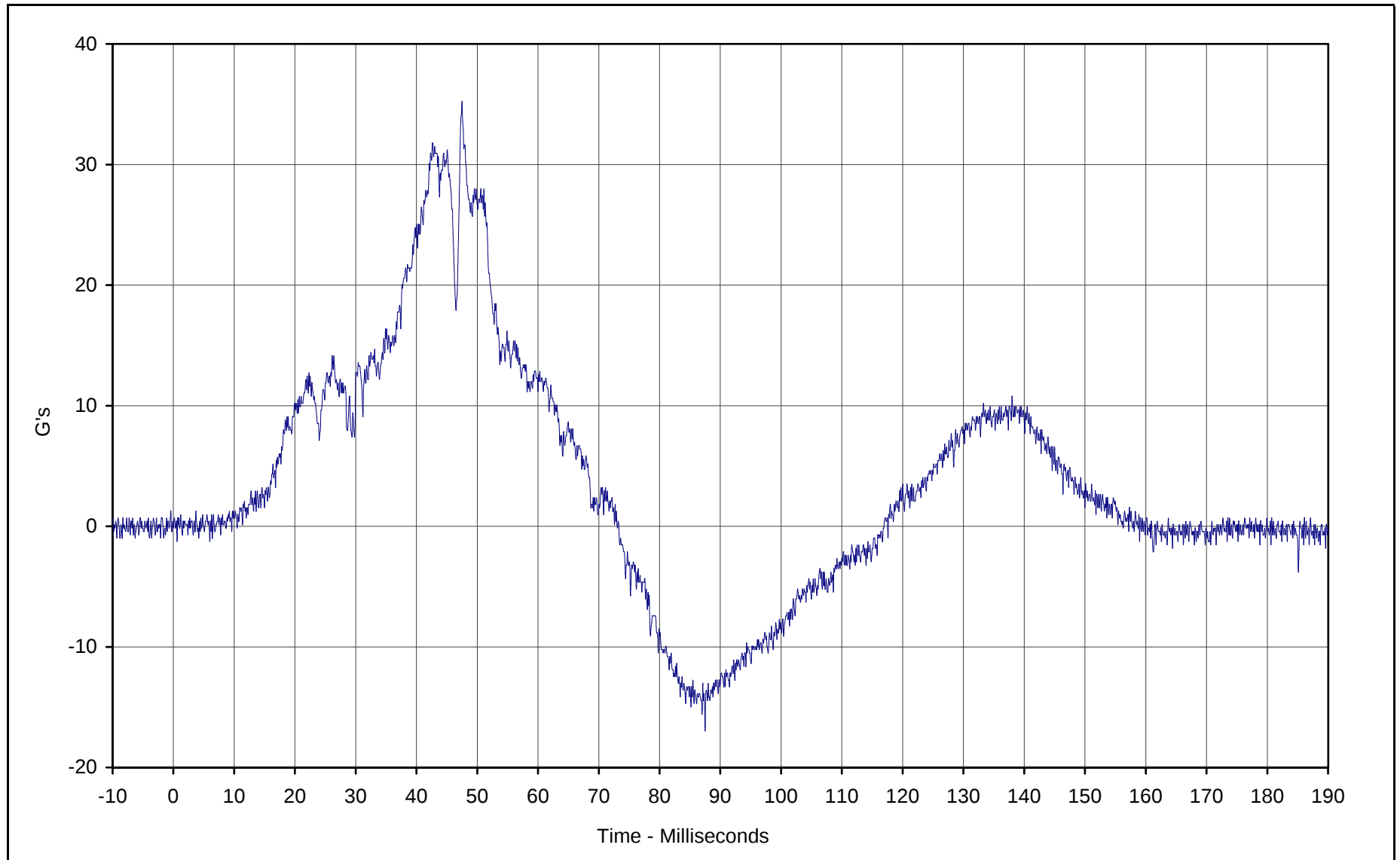
Date of Test: 02/01/01

Curve Number: IN1-023

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

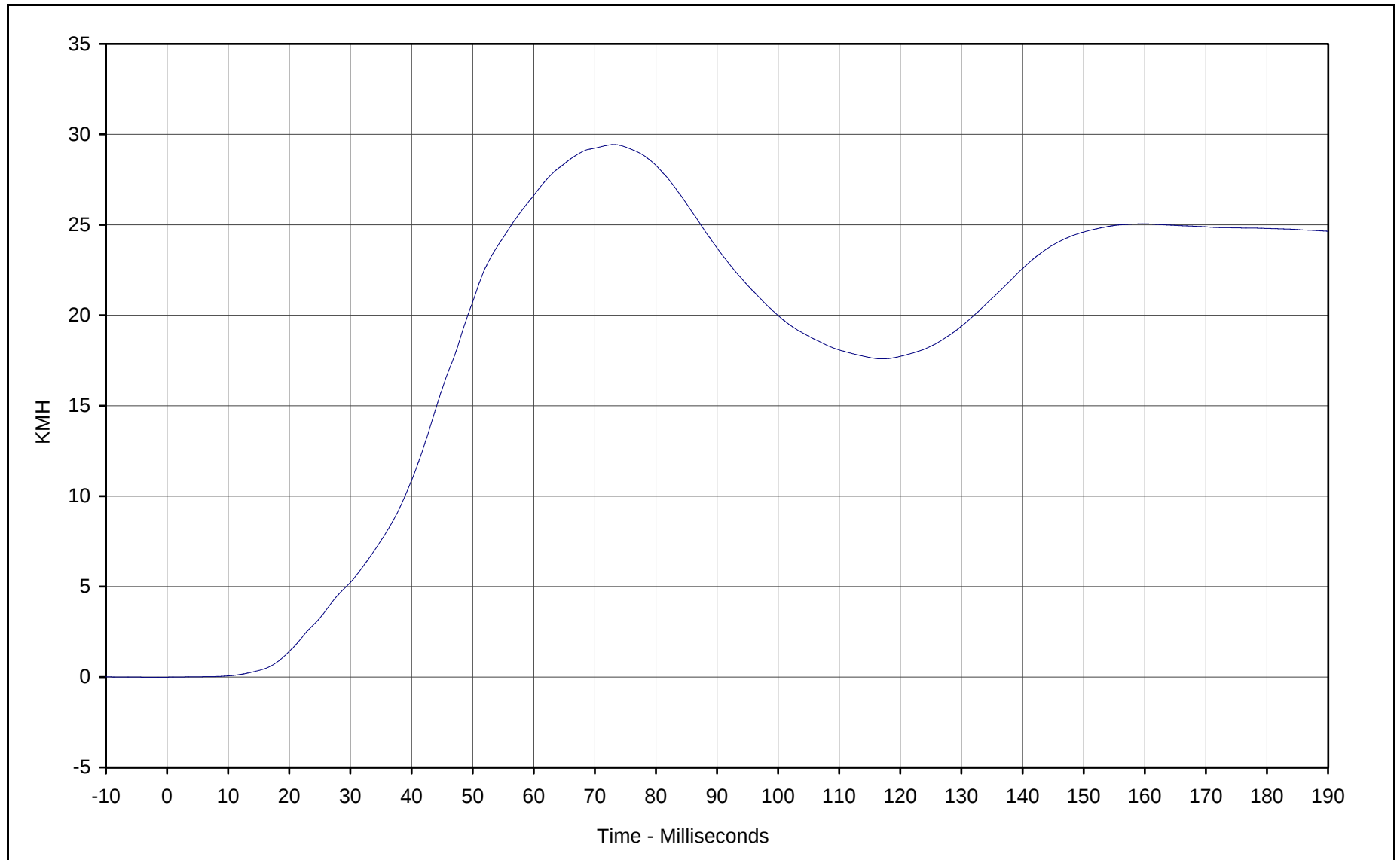




Curve Description: Pass. Pelvis Redundant Y
Maximum Value: 35.3 at 47.5 Milliseconds
Minimum Value: -17.0 at 87.5 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-024

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

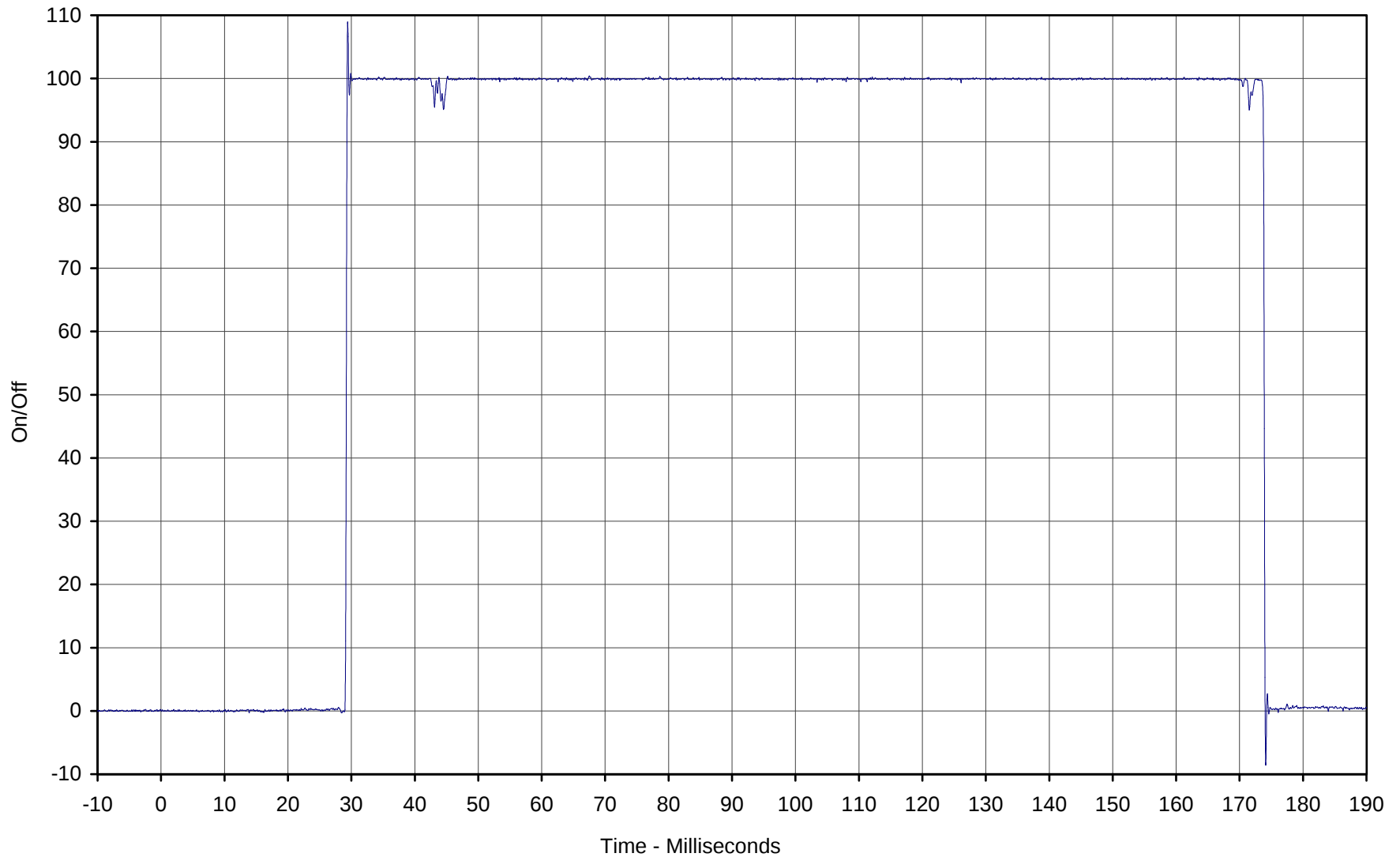




Curve Description: Pass. Pelvis Redundant Y Velocity
Maximum Value: 29.4 at 73.1 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-024

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

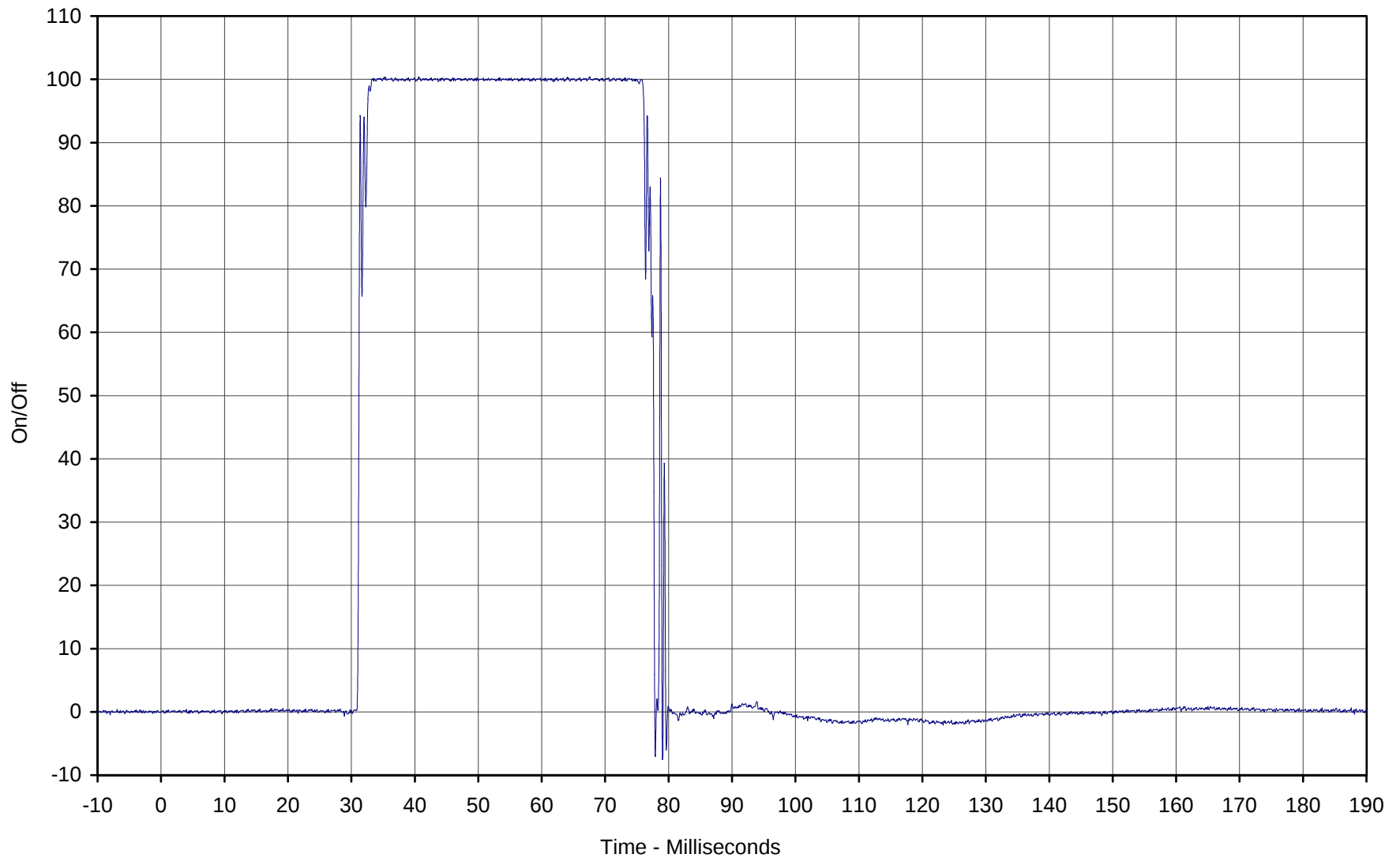




Curve Description: Pass. Thorax Contact
Maximum Value: 108.7 at 29.4 Milliseconds
Crossing Point: 50% at 29.3 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-025

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

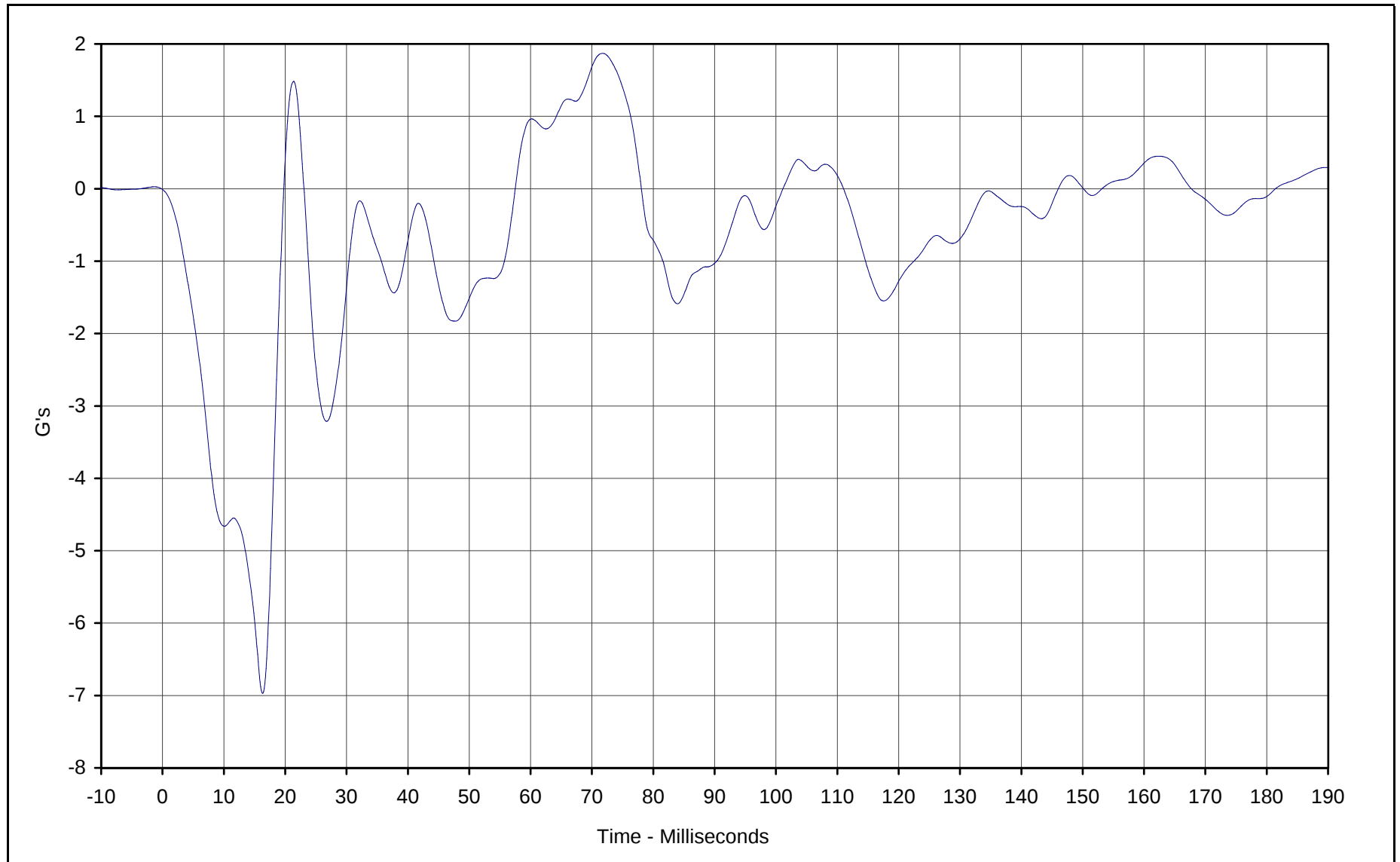




Curve Description: Pass. Pelvis Contact
Maximum Value: 100.4 at 40.6 Milliseconds
Crossing Point: 50% at 30.1 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-026

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

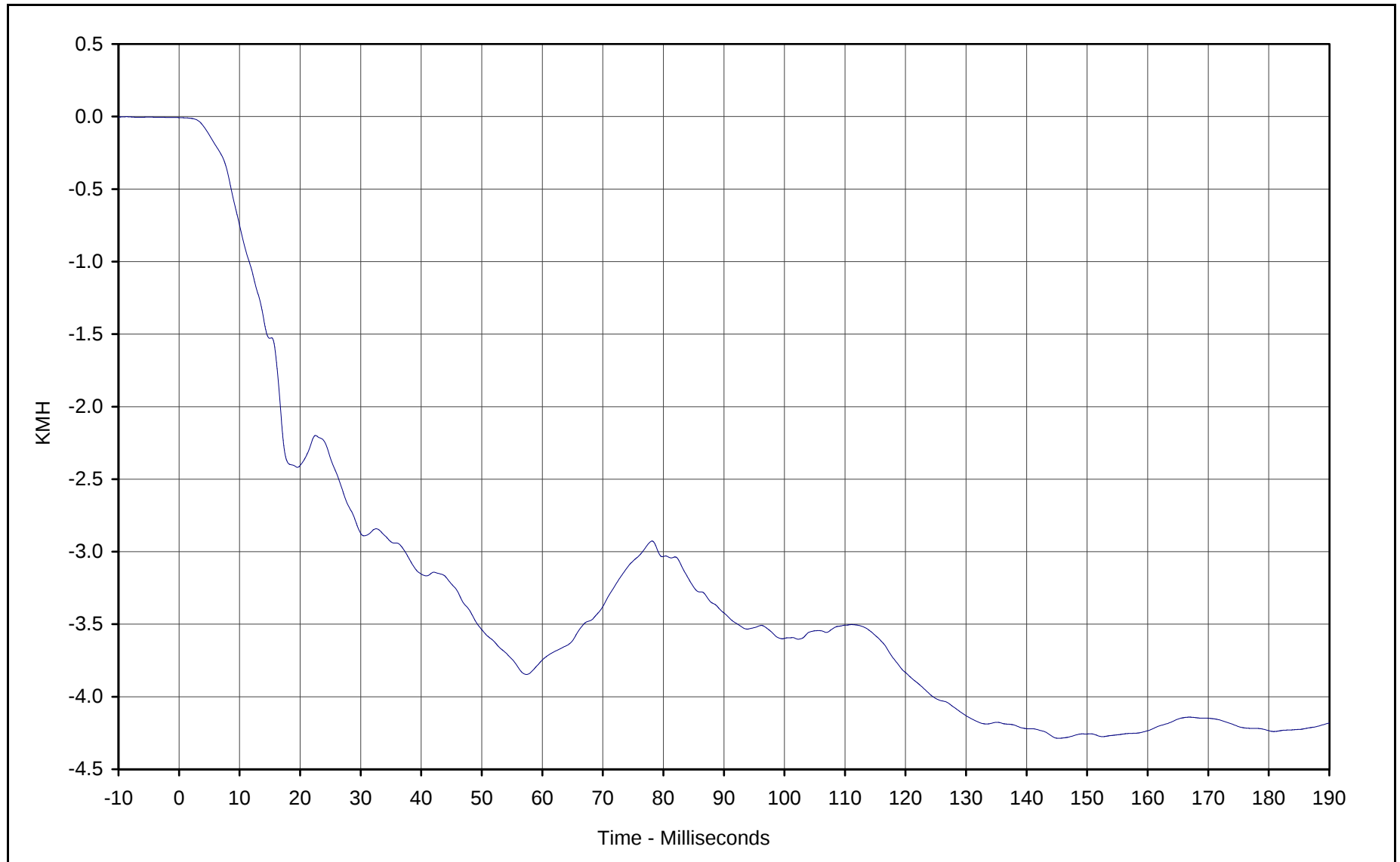




Curve Description: Right Sill at Front Seat X
Maximum Value: 1.9 at 71.8 Milliseconds
Minimum Value: -7.0 at 16.3 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-027

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

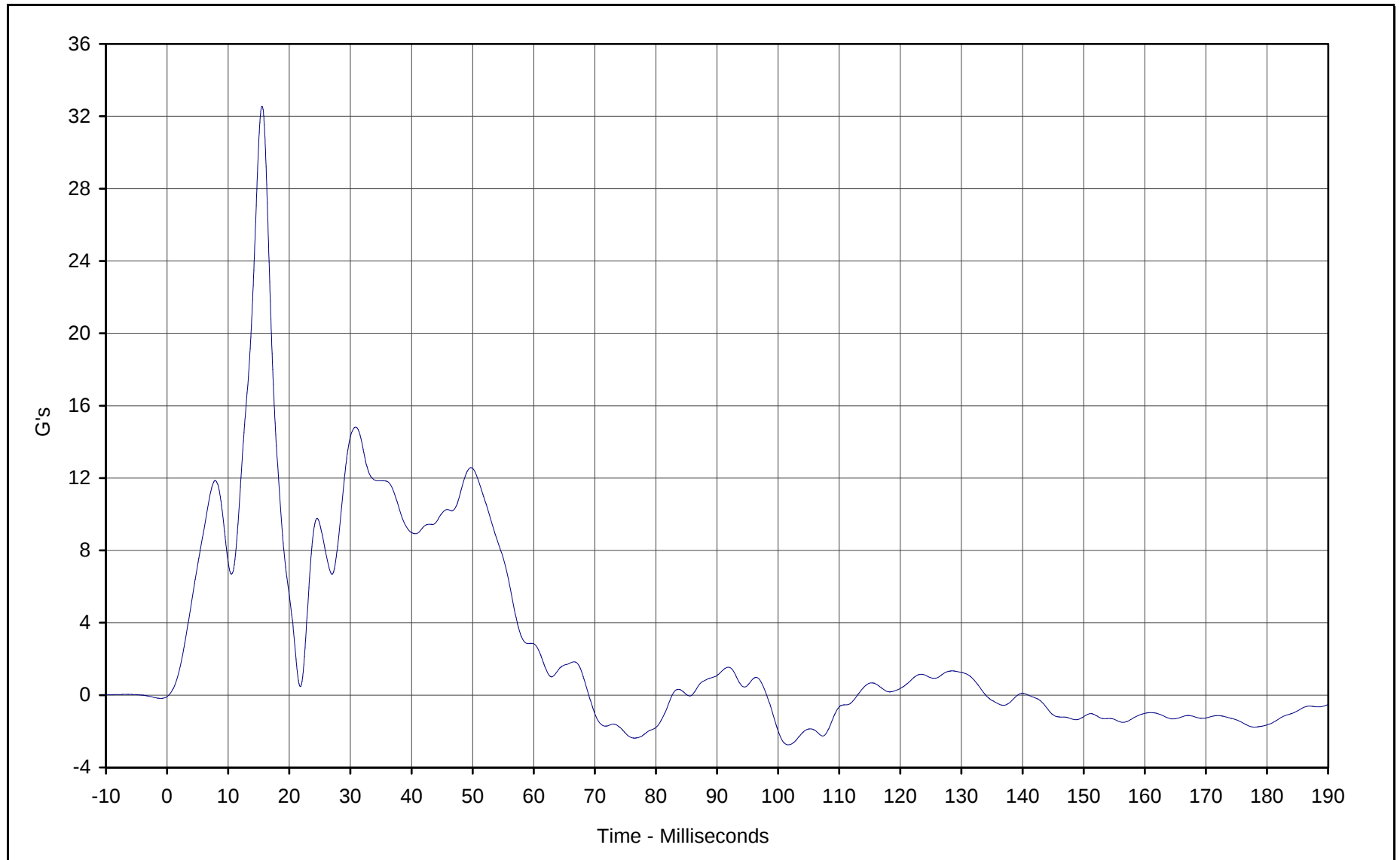




Curve Description: Right Sill at Front Seat X Velocity
Maximum Value: 0.0 at 0.0 Milliseconds
Minimum Value: -4.3 at 145.3 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-027

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

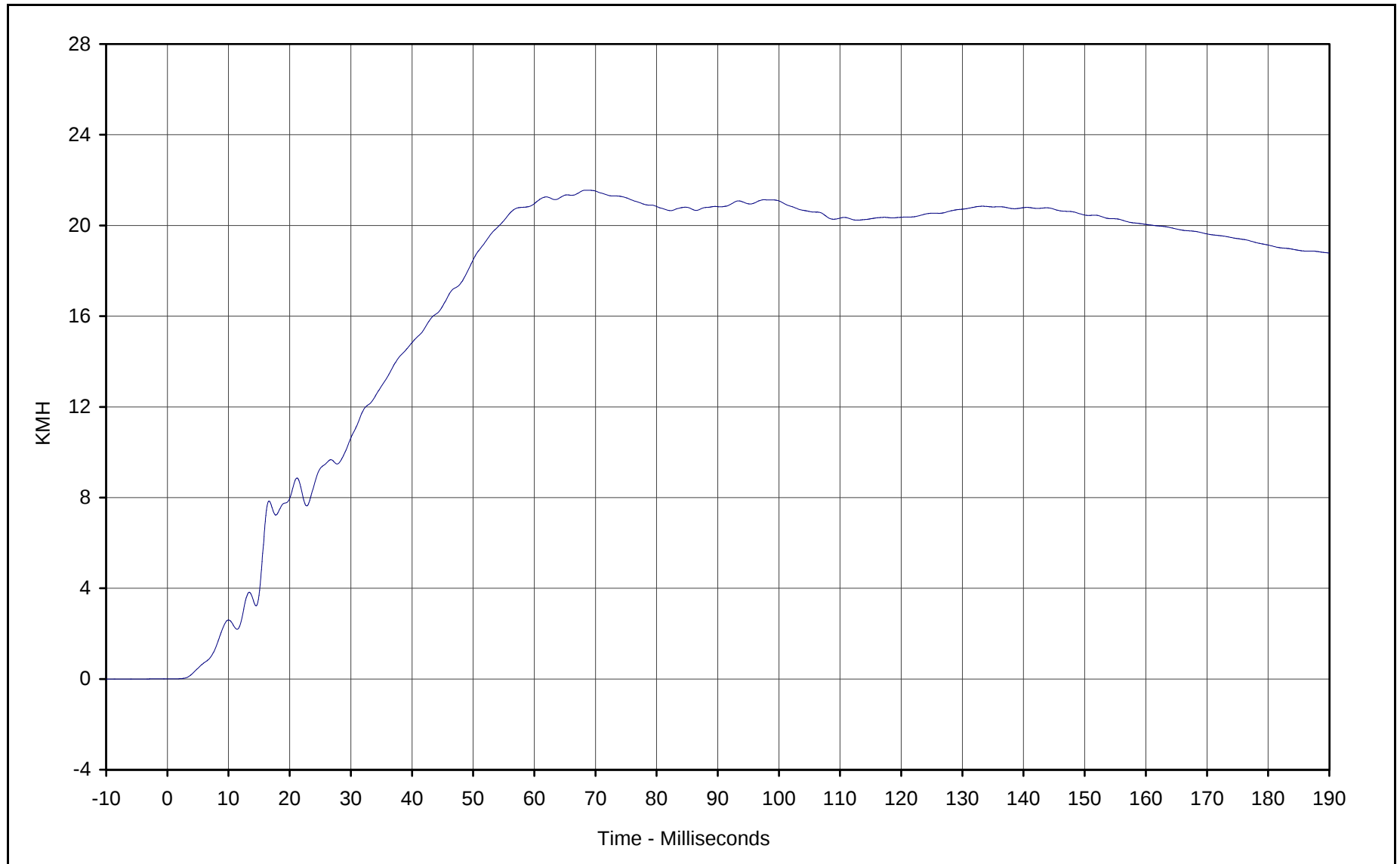




Curve Description: Right Sill at Front Seat Y
Maximum Value: 32.6 at 15.5 Milliseconds
Minimum Value: -2.7 at 101.7 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-028

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

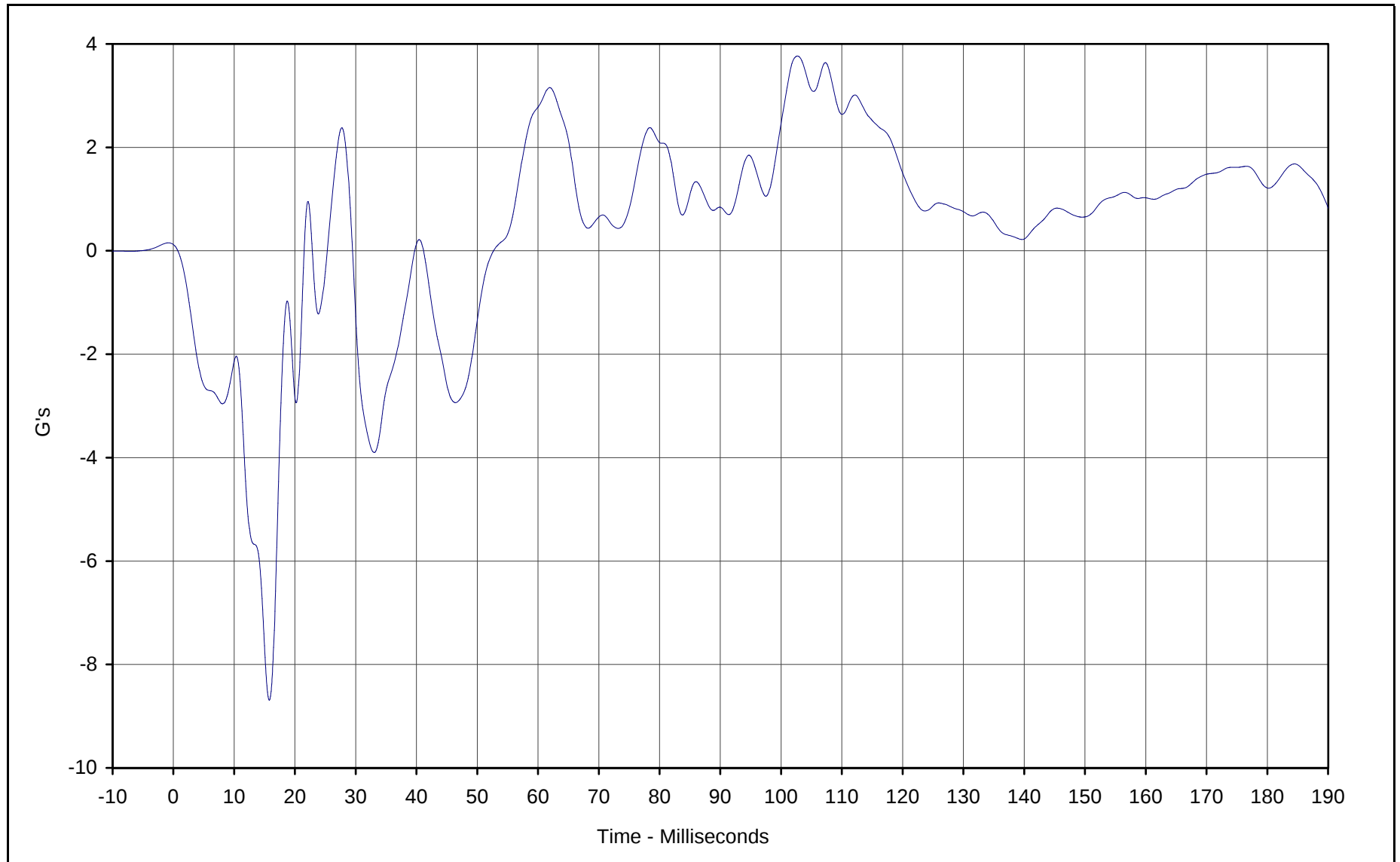




Curve Description: Right Sill at Front Seat Y Velocity
Maximum Value: 21.6 at 68.4 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-028

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

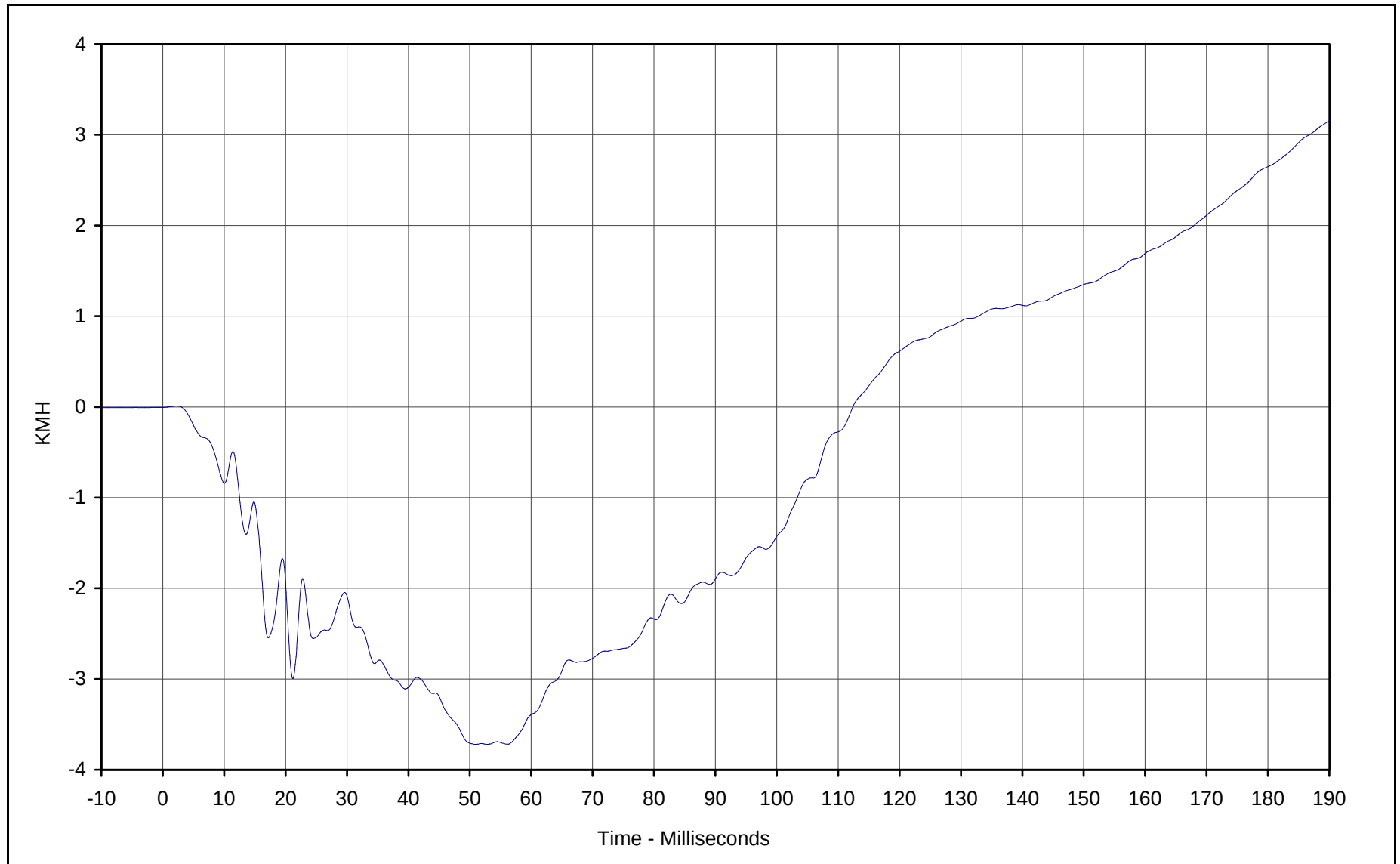




Curve Description: Right Sill at Front Seat Z
Maximum Value: 3.8 at 102.7 Milliseconds
Minimum Value: -8.7 at 15.8 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-029

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

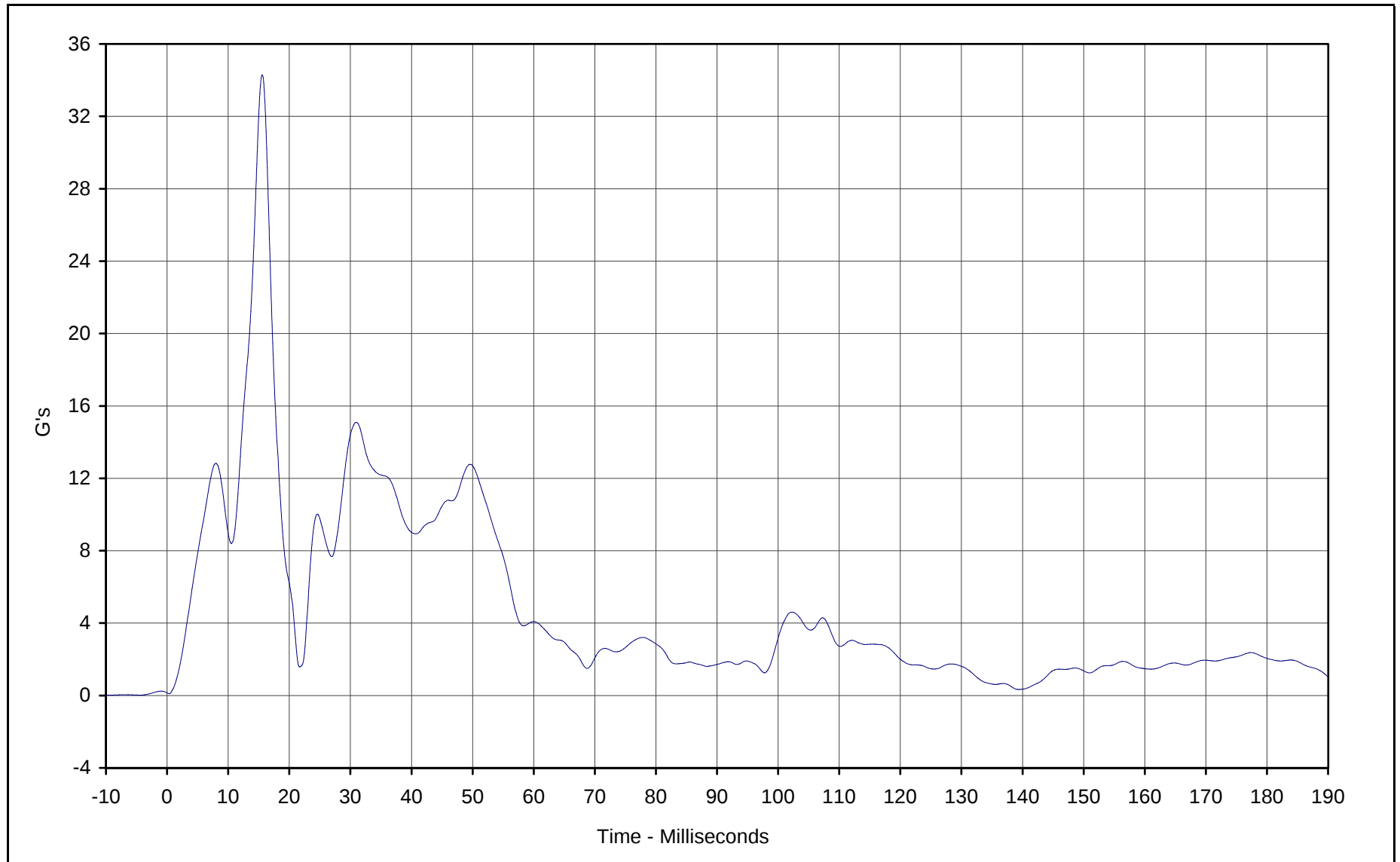




Curve Description: Right Sill at Front Seat Z Velocity
Maximum Value: 3.2 at 189.9 Milliseconds
Minimum Value: -3.7 at 51.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-029

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

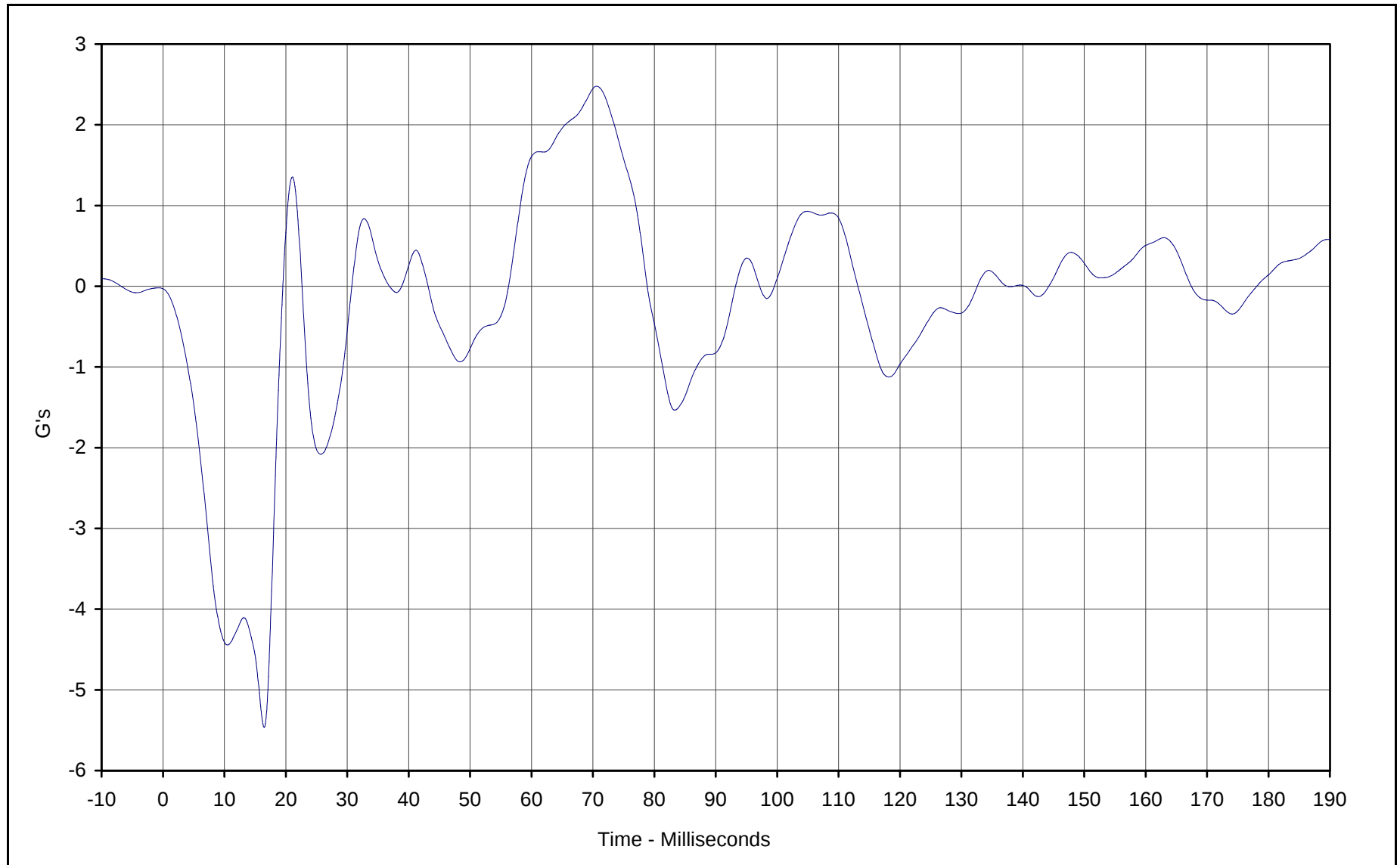




Curve Description: Right Sill at Front Seat Resultant
Maximum Value: 34.3 at 15.6 Milliseconds
Minimum Value: 0.1 at 0.4 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: RES-027

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

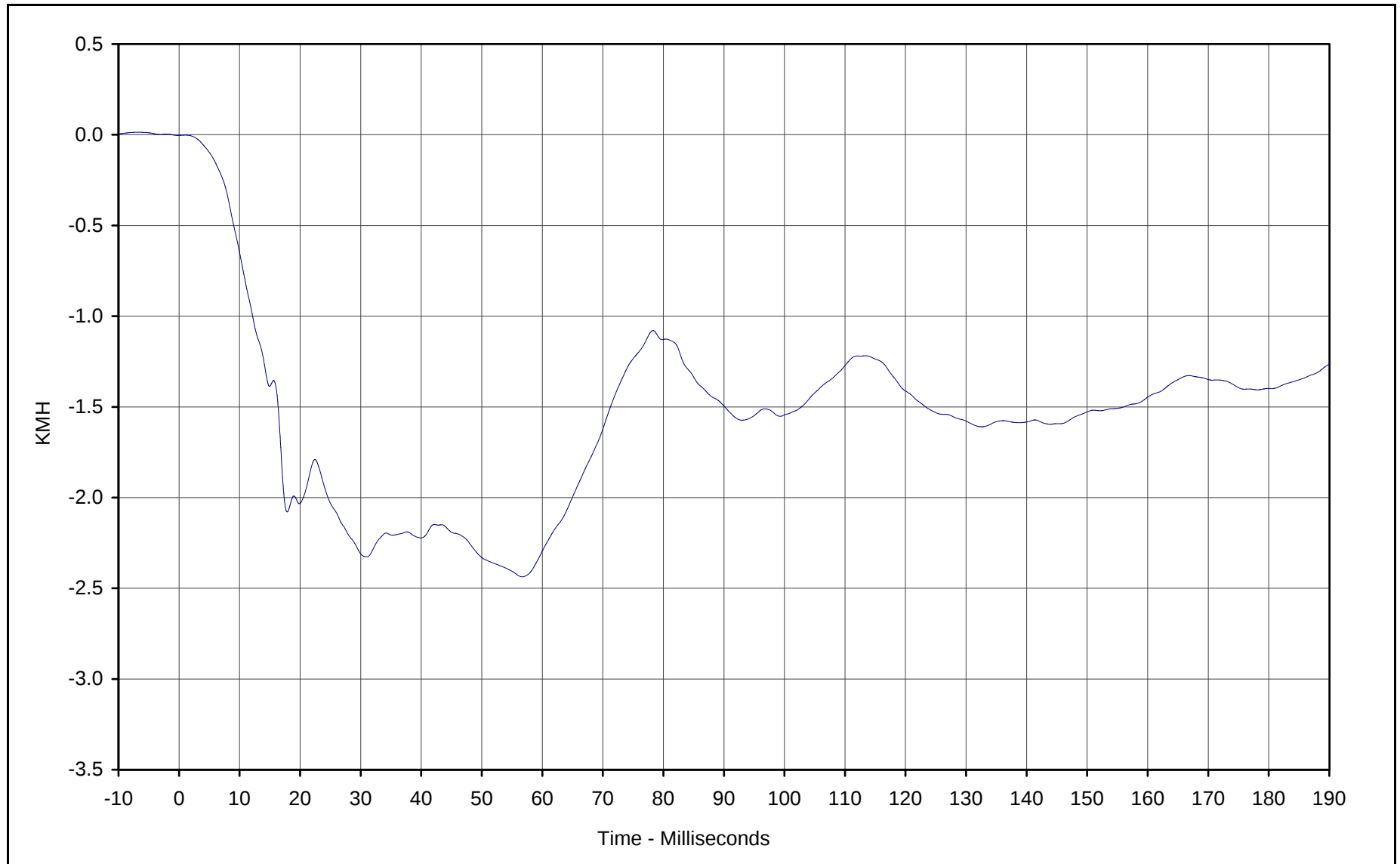




Curve Description: Right Sill at Rear Seat X
Maximum Value: 2.5 at 70.6 Milliseconds
Minimum Value: -5.5 at 16.5 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-030

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



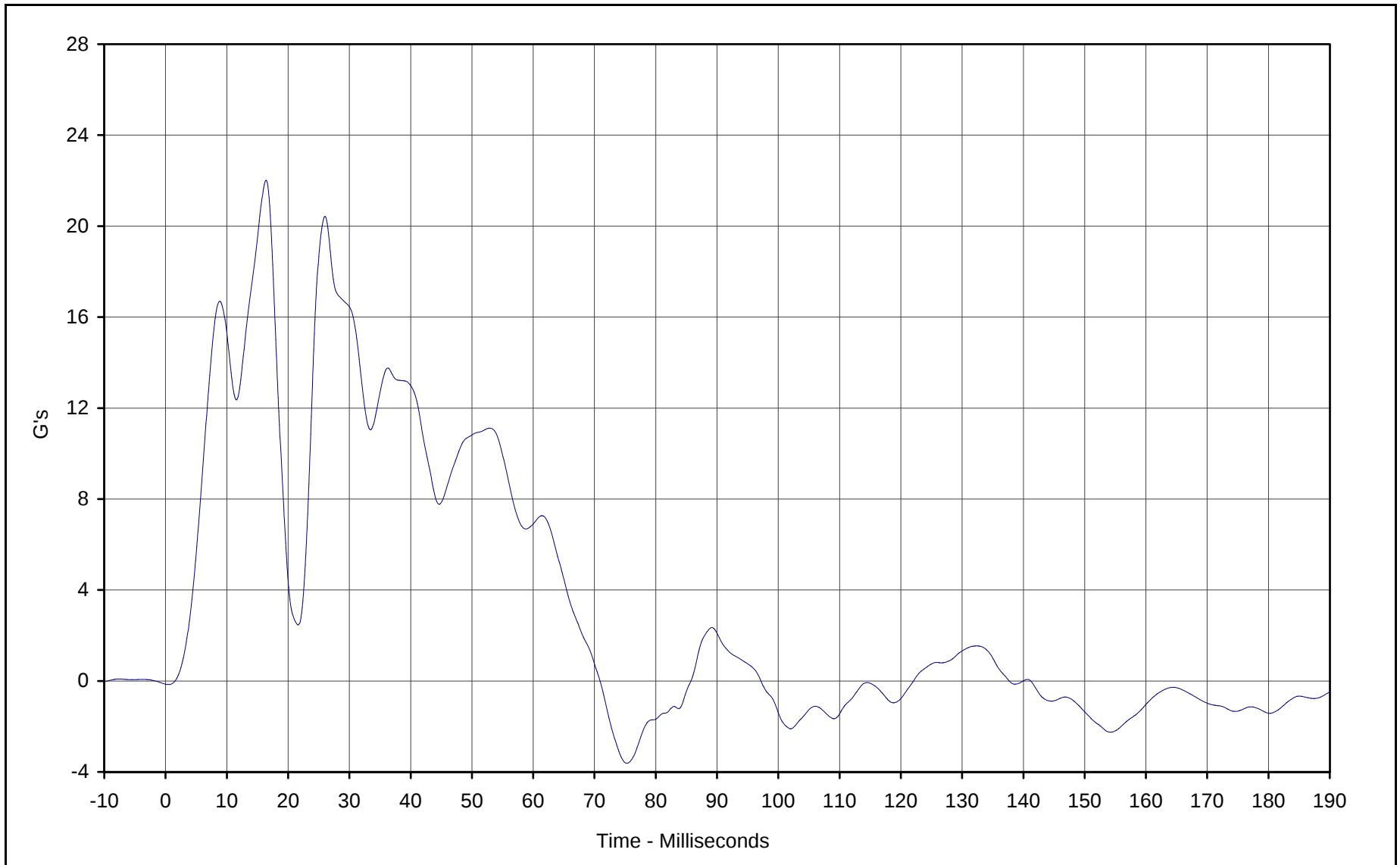


Curve Description: Right Sill at Rear Seat X Velocity
Maximum Value: 0.0 at 1.1 Milliseconds
Minimum Value: -2.4 at 56.7 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-030

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



B-60

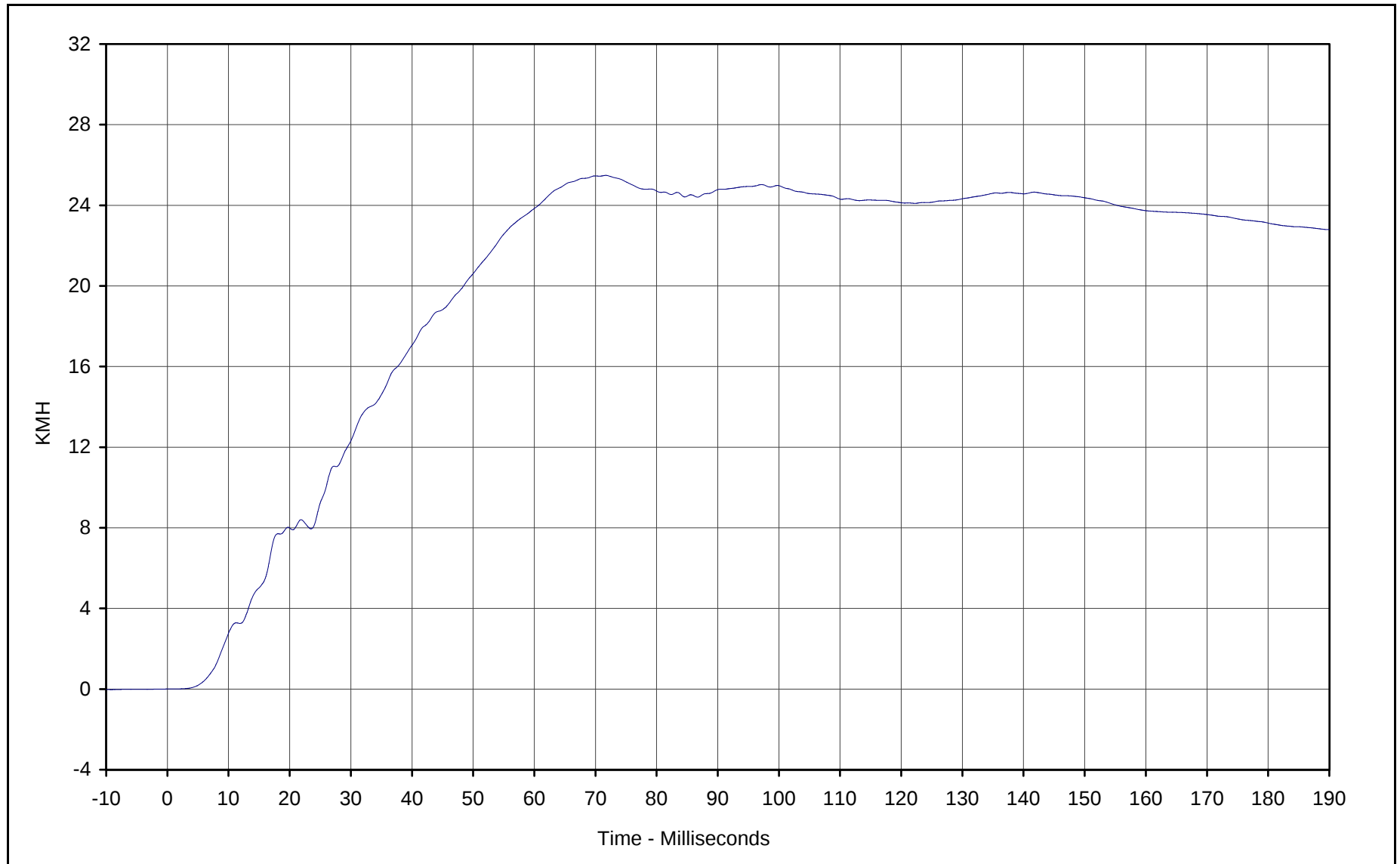


Curve Description: Right Sill at Rear Seat Y
Maximum Value: 22.0 at 16.4 Milliseconds
Minimum Value: -3.6 at 75.3 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-031

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



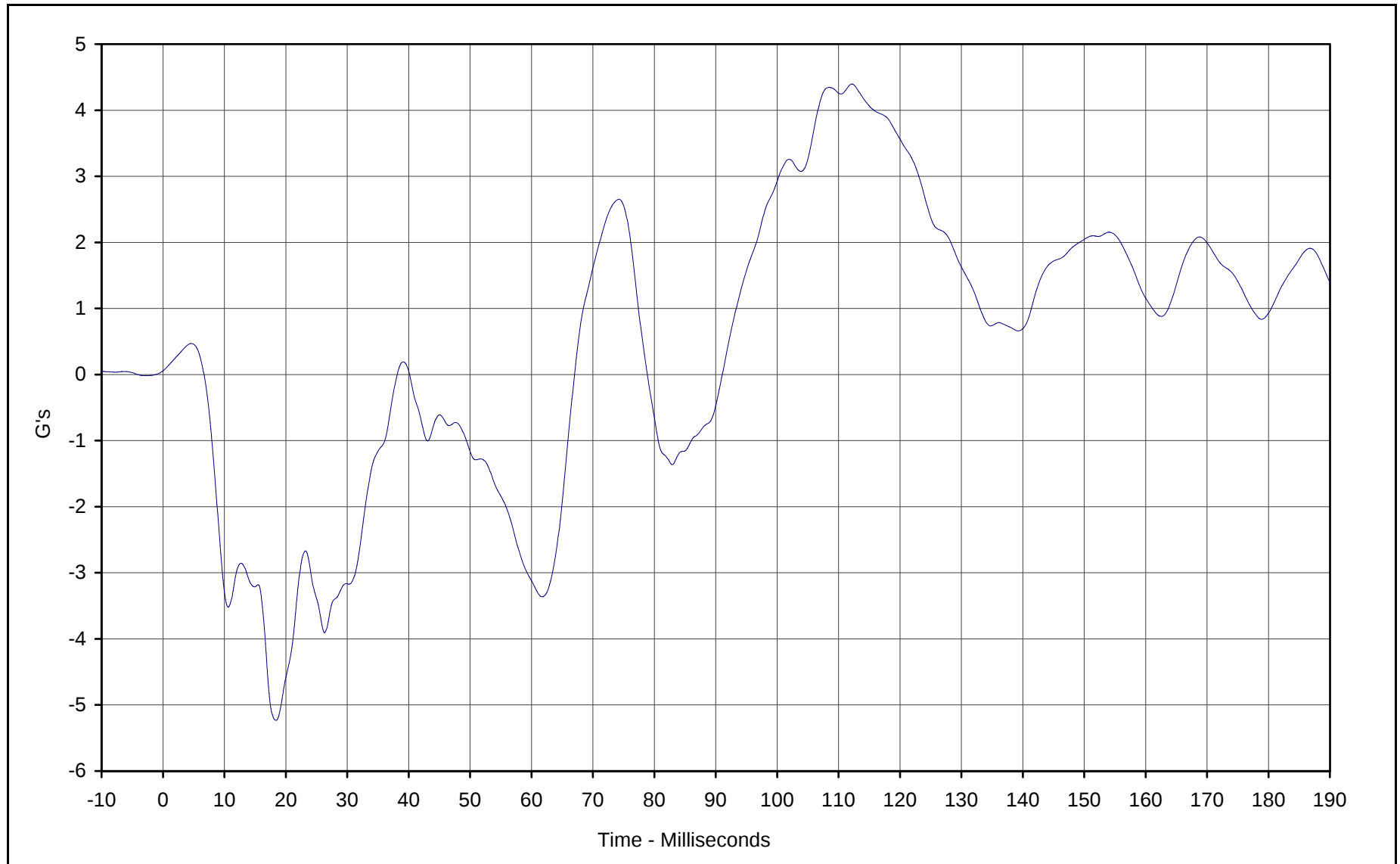
KAR21003-10



Curve Description: Right Sill at Rear Seat Y Velocity
Maximum Value: 25.5 at 71.7 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-031

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

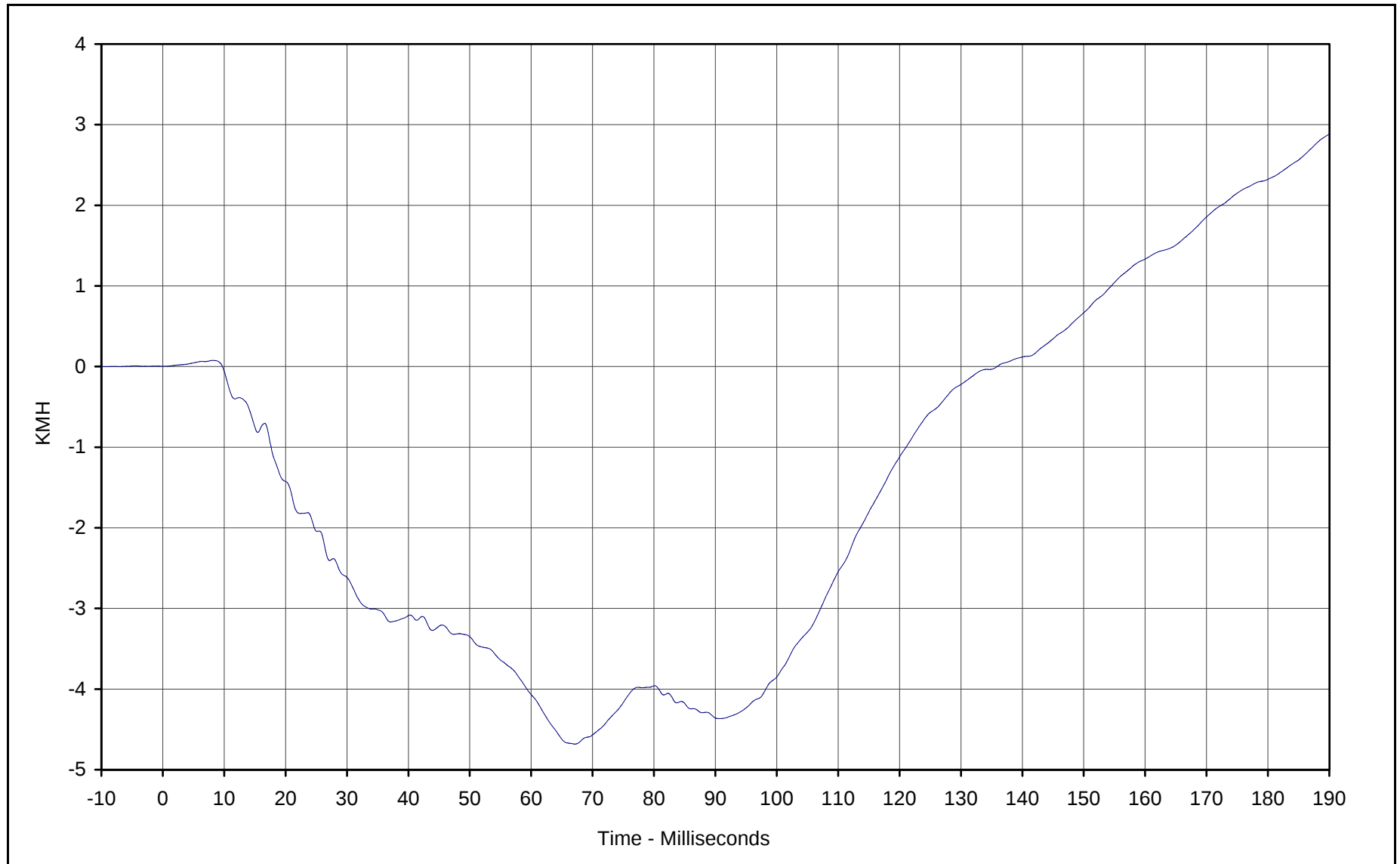




Curve Description: Right Sill at Rear Seat Z
Maximum Value: 4.4 at 112.2 Milliseconds
Minimum Value: -5.2 at 18.4 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-032

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

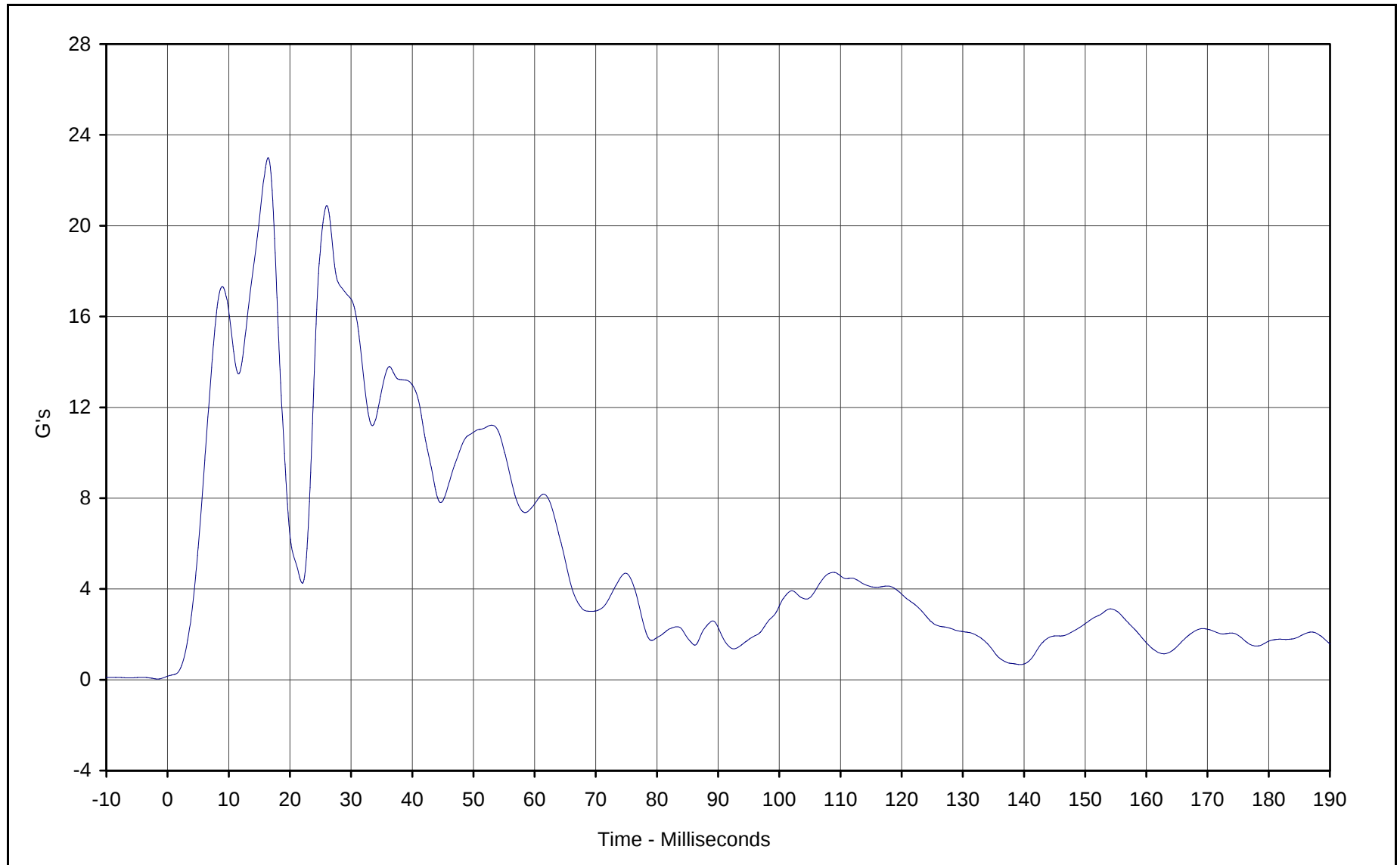




Curve Description: Right Sill at Rear Seat Z Velocity
Maximum Value: 2.9 at 189.9 Milliseconds
Minimum Value: -4.7 at 67.1 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-032

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

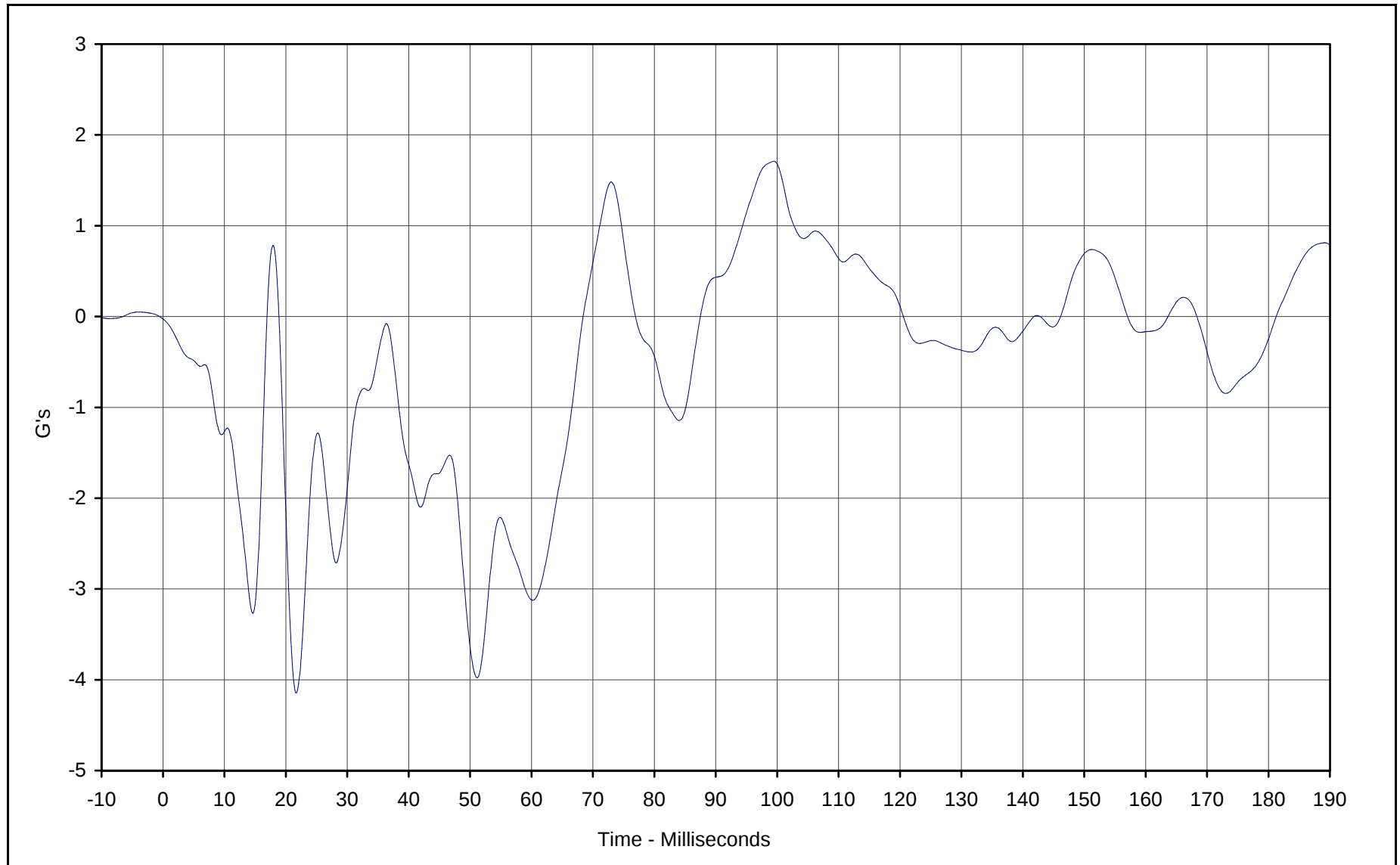




Curve Description: Right Sill at Rear Resultant
Maximum Value: 23.0 at 16.4 Milliseconds
Minimum Value: 0.2 at 0.0 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: RES-030

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

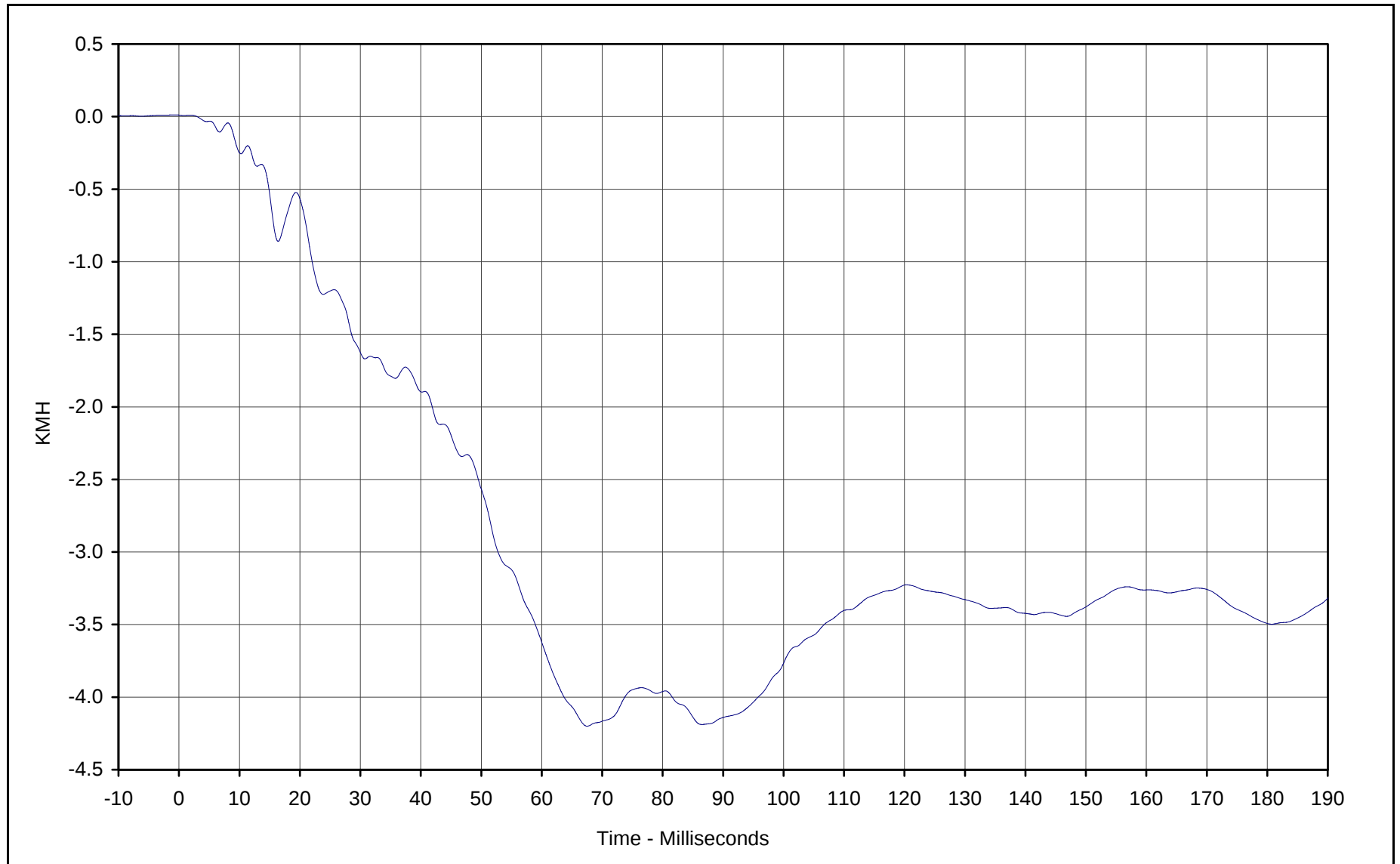




Curve Description: Rear Floor Above Axle X
Maximum Value: 1.7 at 99.5 Milliseconds
Minimum Value: -4.1 at 21.7 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-033

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

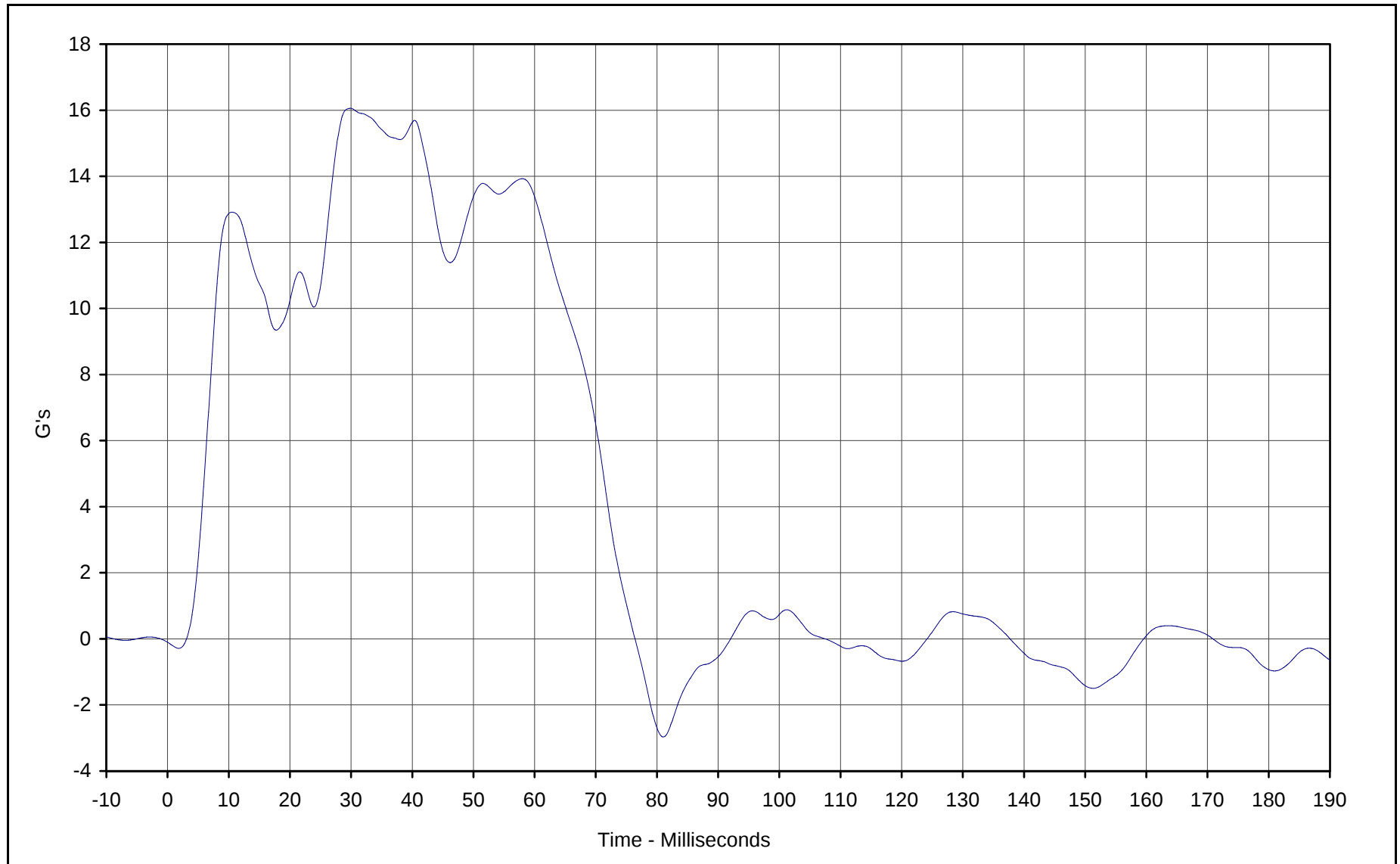




Curve Description: Rear Floor Above Axle X Velocity
Maximum Value: 0.0 at 0.0 Milliseconds
Minimum Value: -4.2 at 67.5 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-033

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

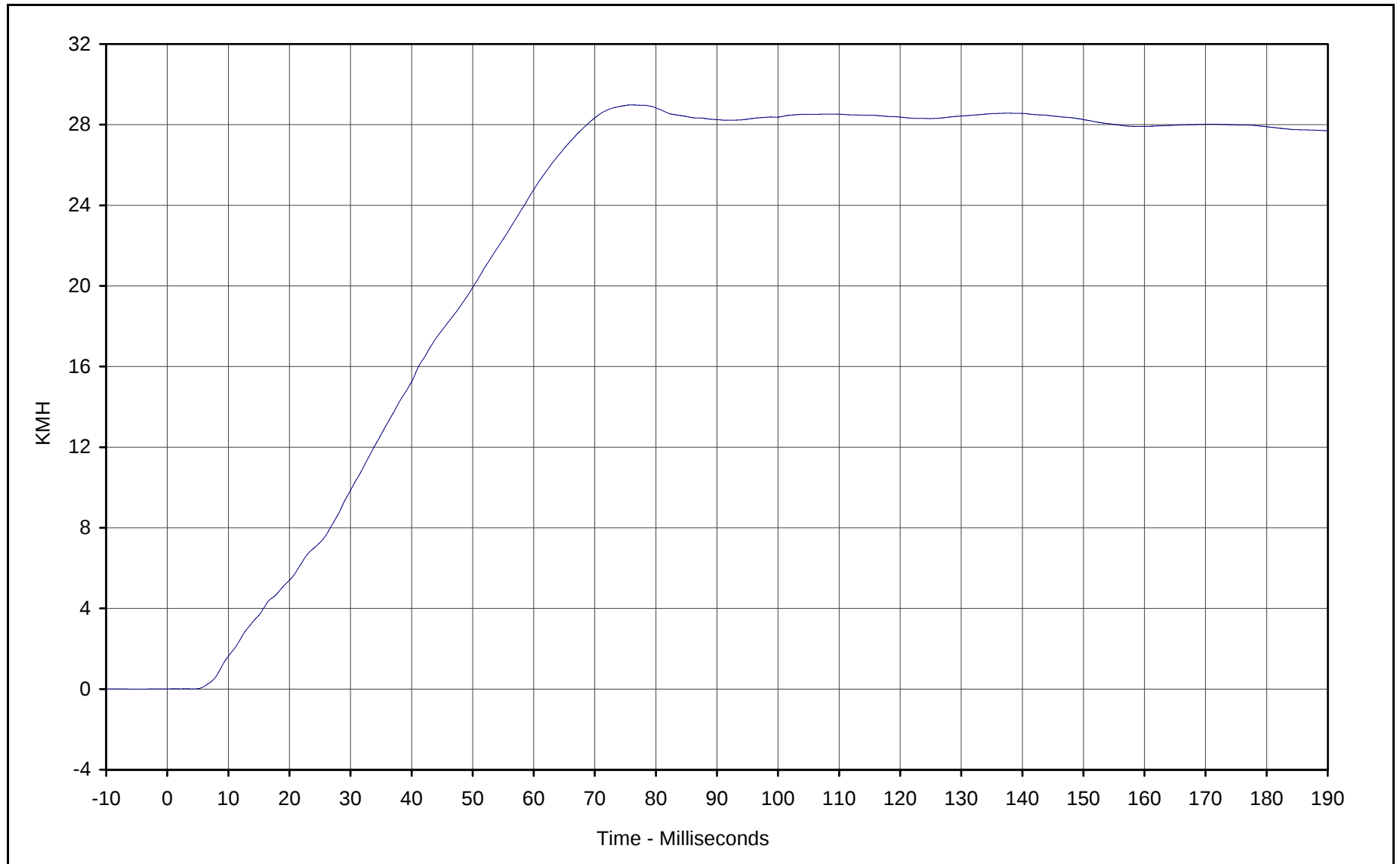




Curve Description: Rear Floor Above Axle Y
Maximum Value: 16.1 at 29.9 Milliseconds
Minimum Value: -3.0 at 81.0 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-034

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

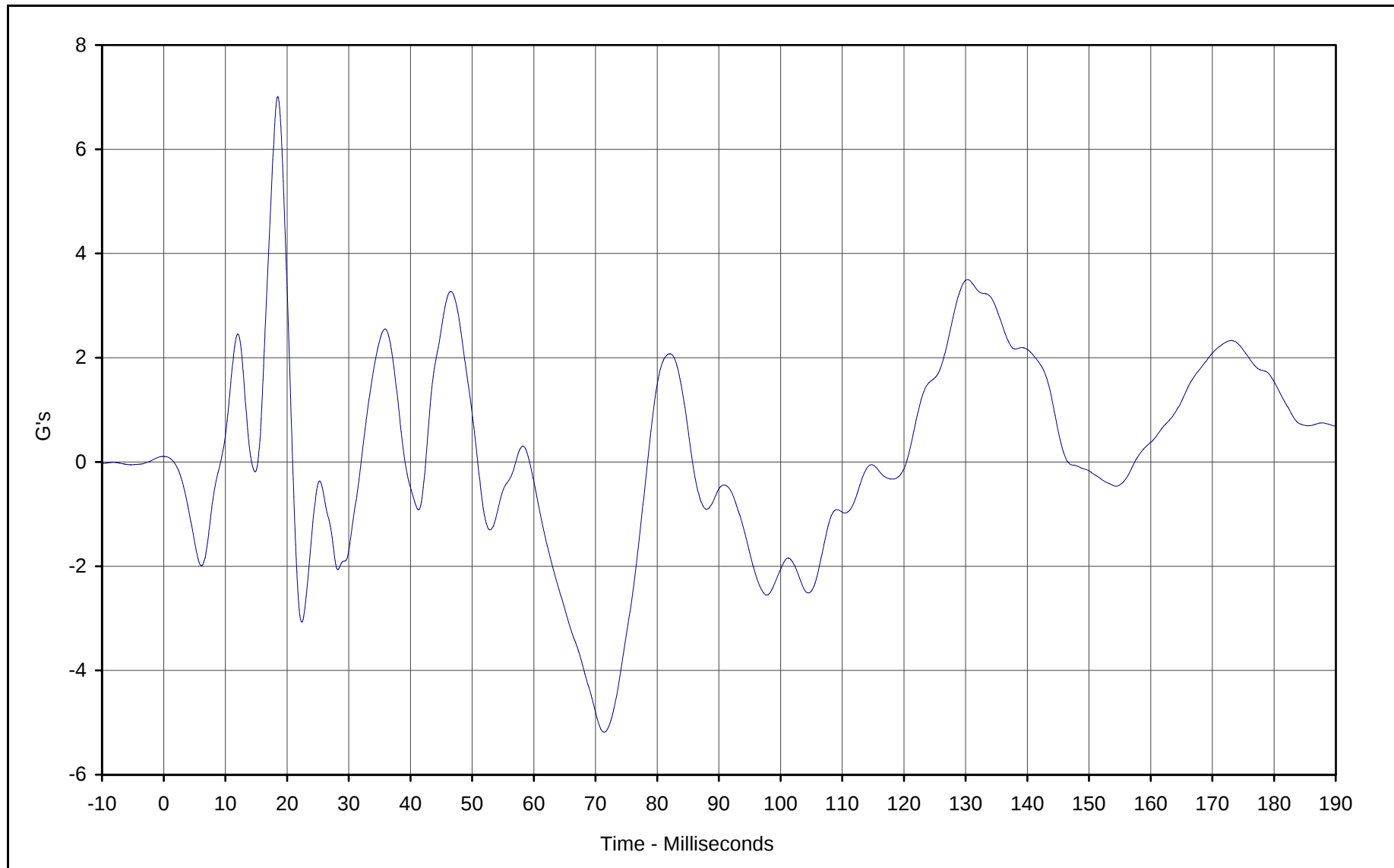




Curve Description: Rear Floor Above Axle Y Velocity
Maximum Value: 29.0 at 76.0 Milliseconds
Minimum Value: 0.0 at 4.3 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-034

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

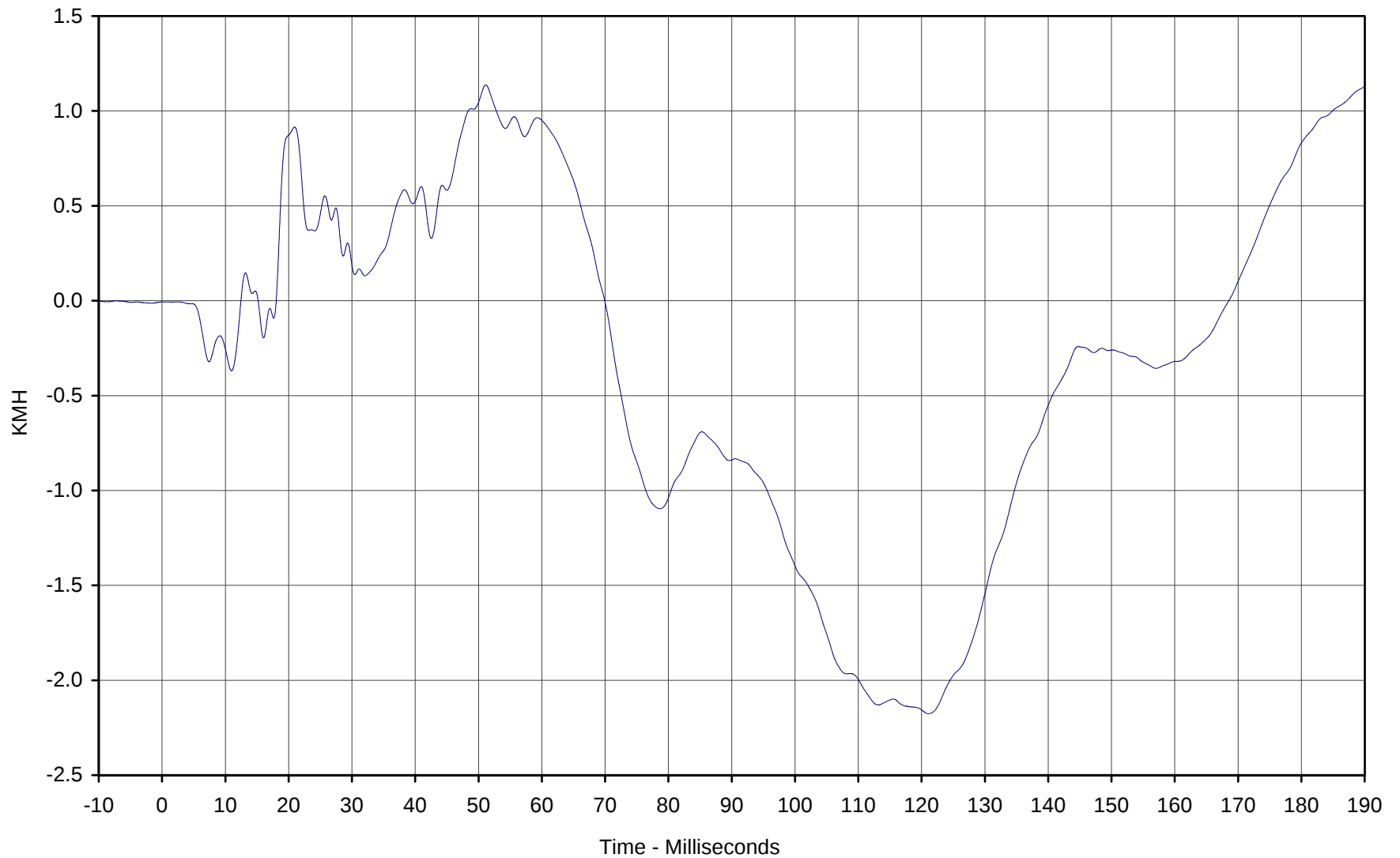




Curve Description: Rear Floor Above Axle Z
Maximum Value: 7.0 at 18.5 Milliseconds
Minimum Value: -5.2 at 71.4 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-035

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

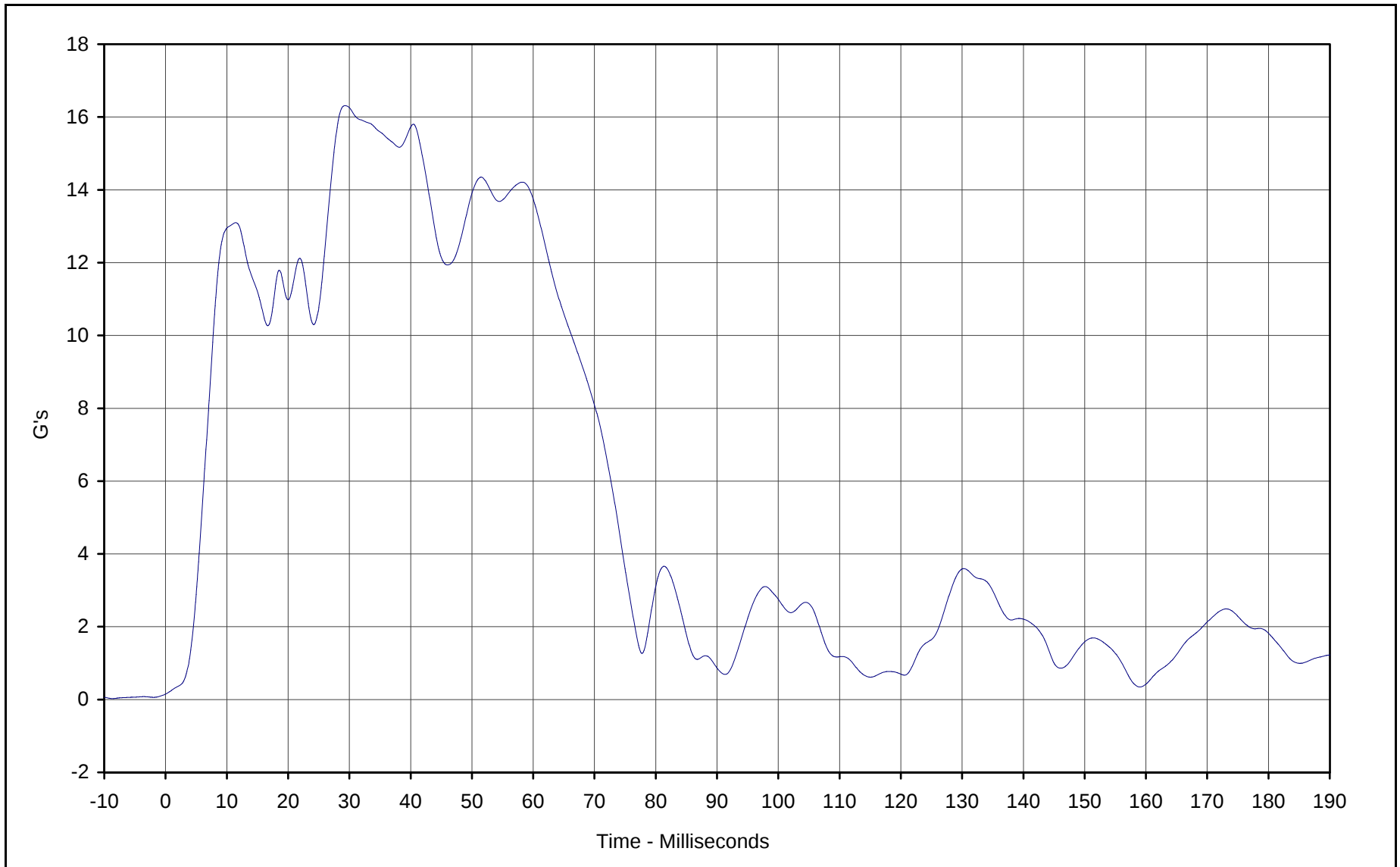




Curve Description: Rear Floor Above Axle Z Velocity
Maximum Value: 1.1 at 51.1 Milliseconds
Minimum Value: -2.2 at 121.1 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-035

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

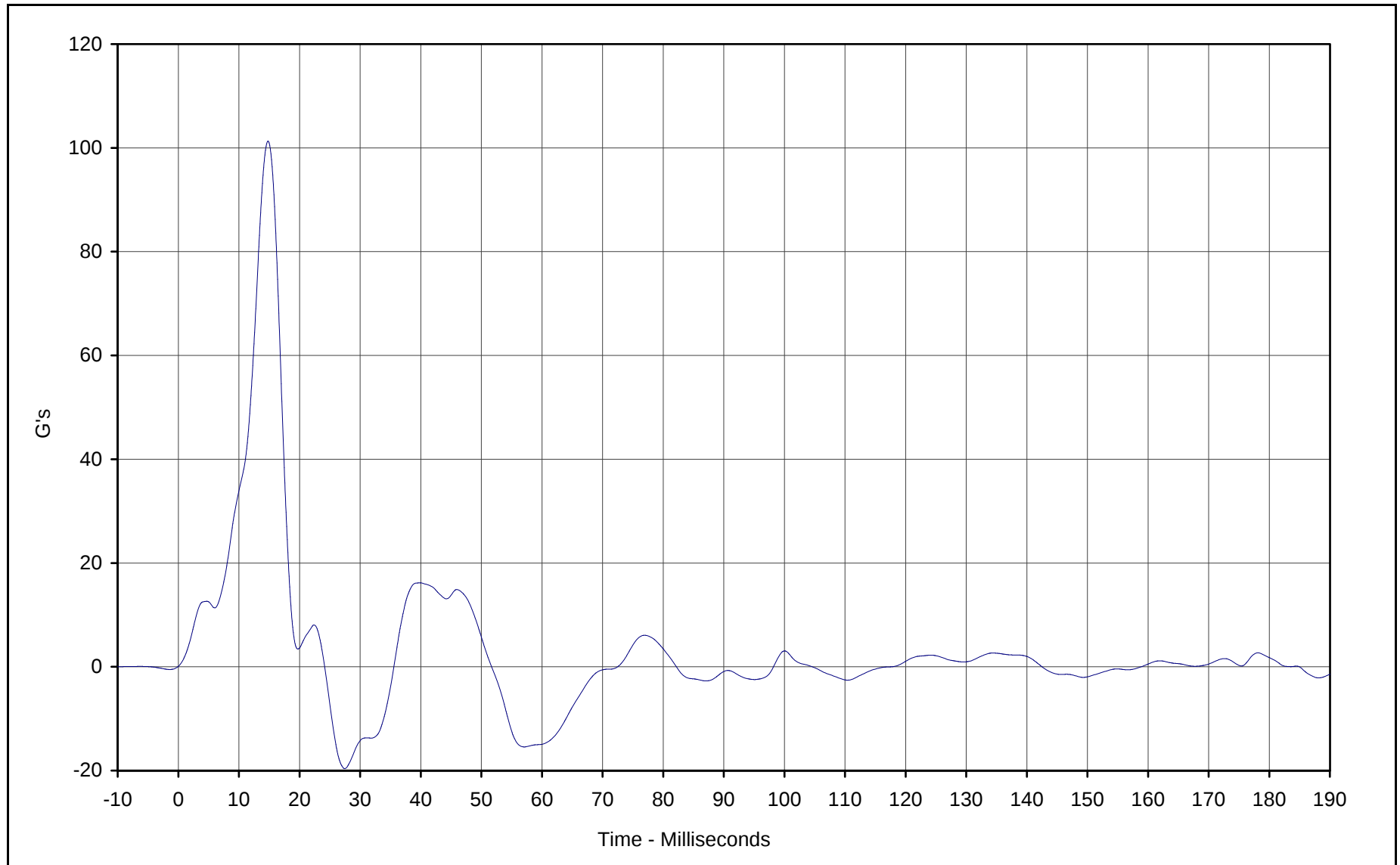




Curve Description: Rear Floor Above Axle Resultant
Maximum Value: 16.3 at 29.3 Milliseconds
Minimum Value: 0.1 at 0.0 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: RES-033

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

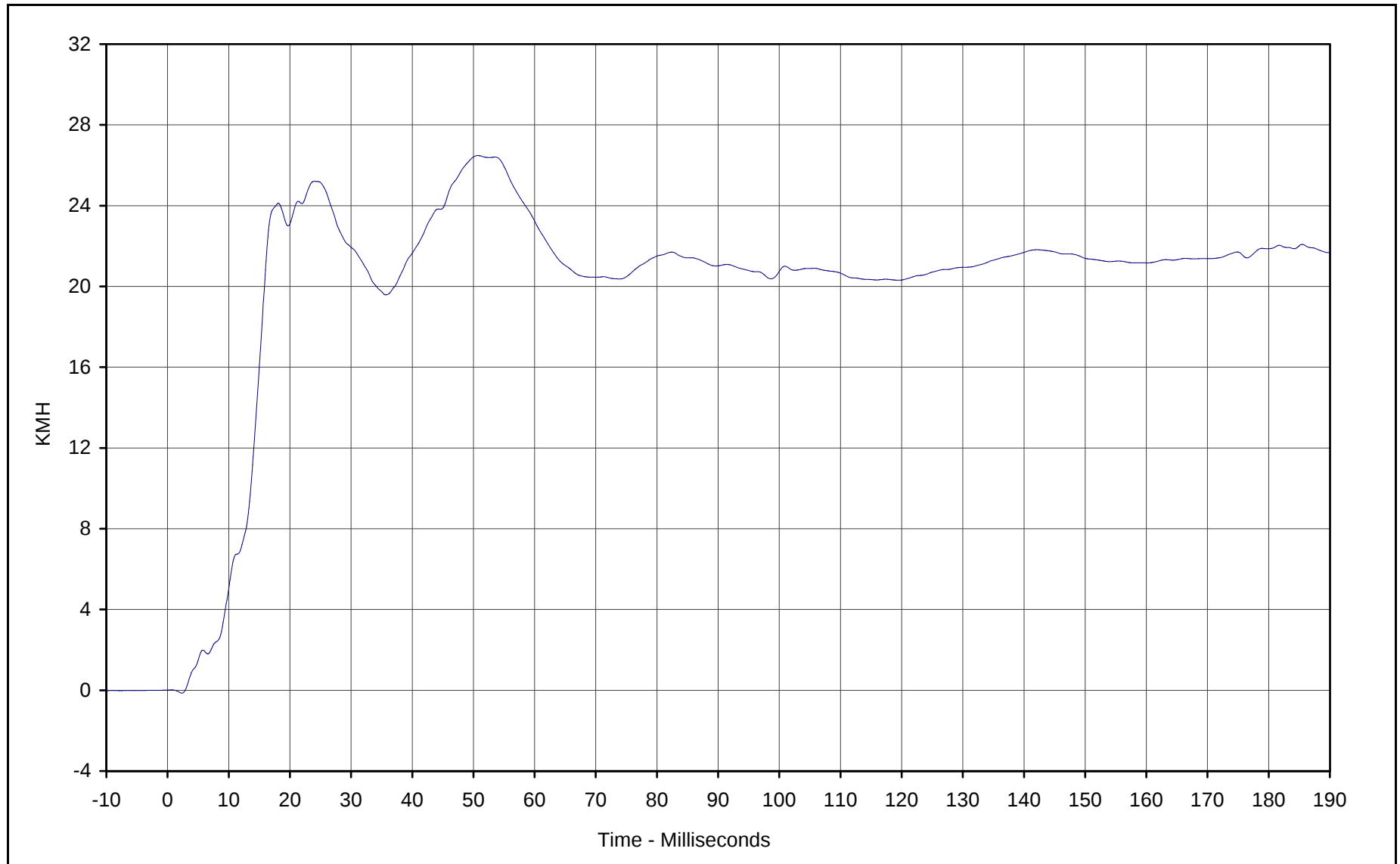




Curve Description: Left Sill at Rear Door Y
Maximum Value: 101.3 at 14.8 Milliseconds
Minimum Value: -19.6 at 27.5 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-036

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

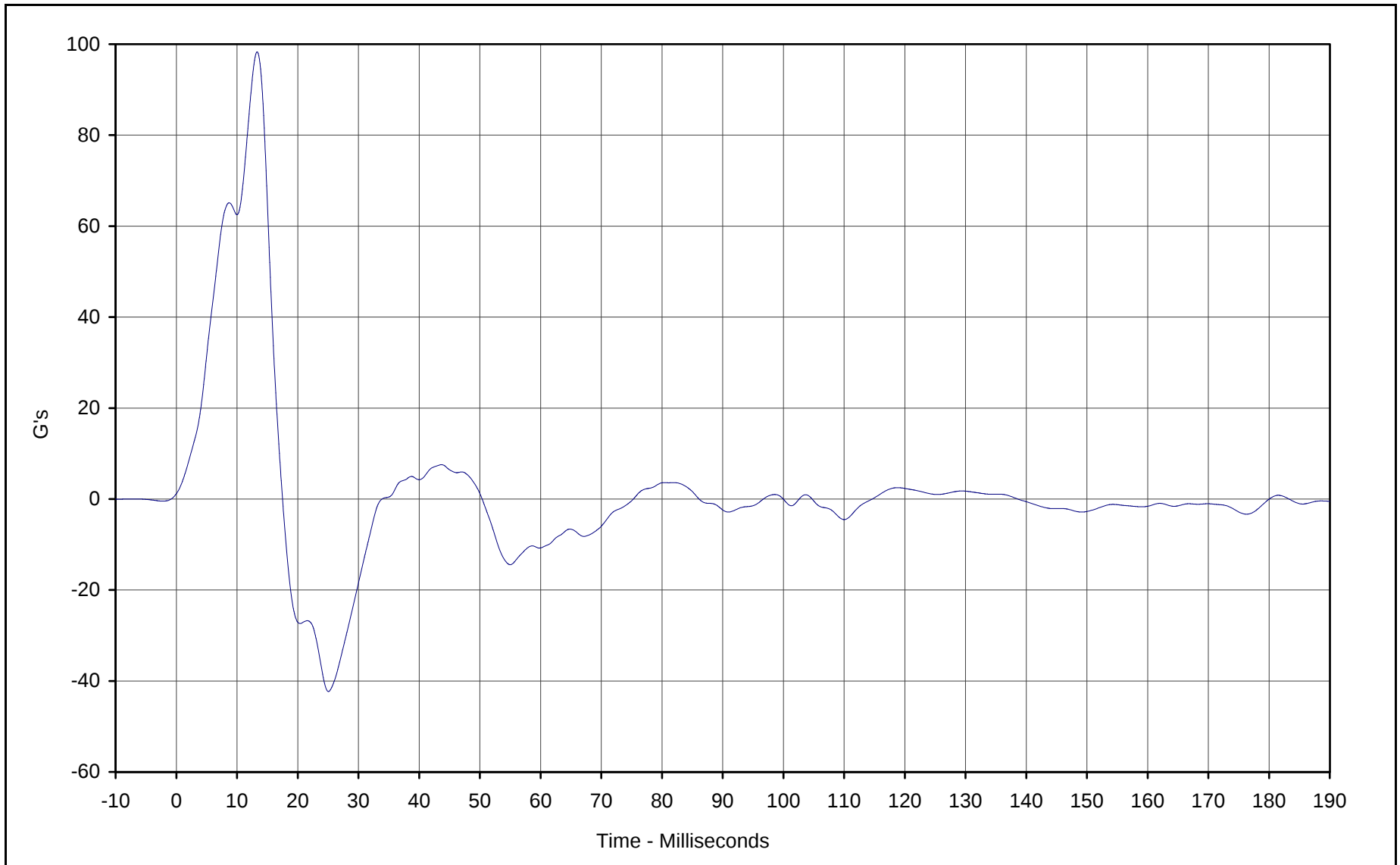




Curve Description: Left Sill at Rear Door Y Velocity
Maximum Value: 26.5 at 50.7 Milliseconds
Minimum Value: -0.1 at 2.3 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-036

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

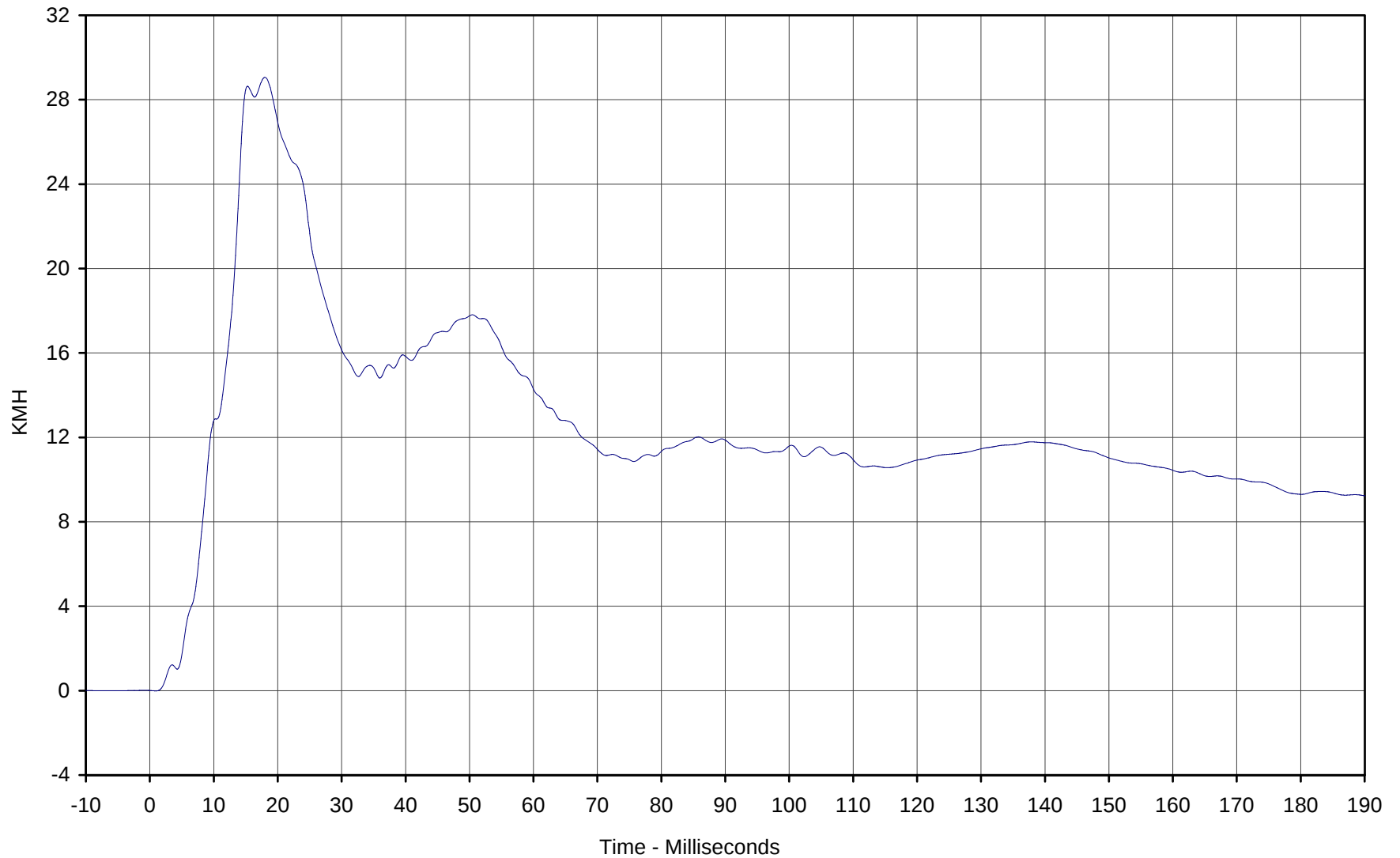




Curve Description: Left Sill at Front Door Y
Maximum Value: 98.3 at 13.3 Milliseconds
Minimum Value: -42.3 at 25.0 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-037

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

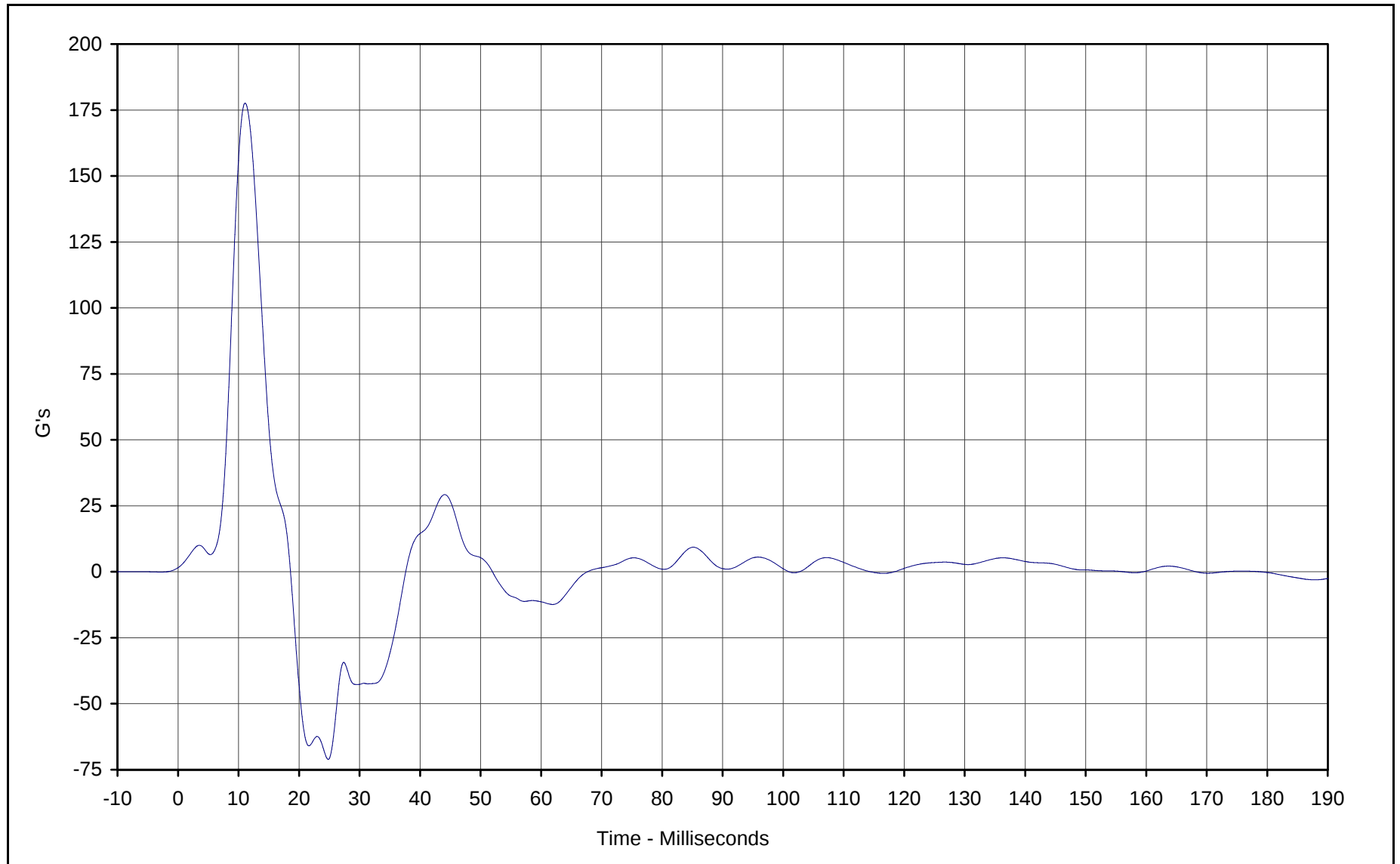




Curve Description: Left Sill at Front Door Y Velocity
Maximum Value: 29.1 at 18.0 Milliseconds
Minimum Value: 0.0 at 0.9 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-037

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

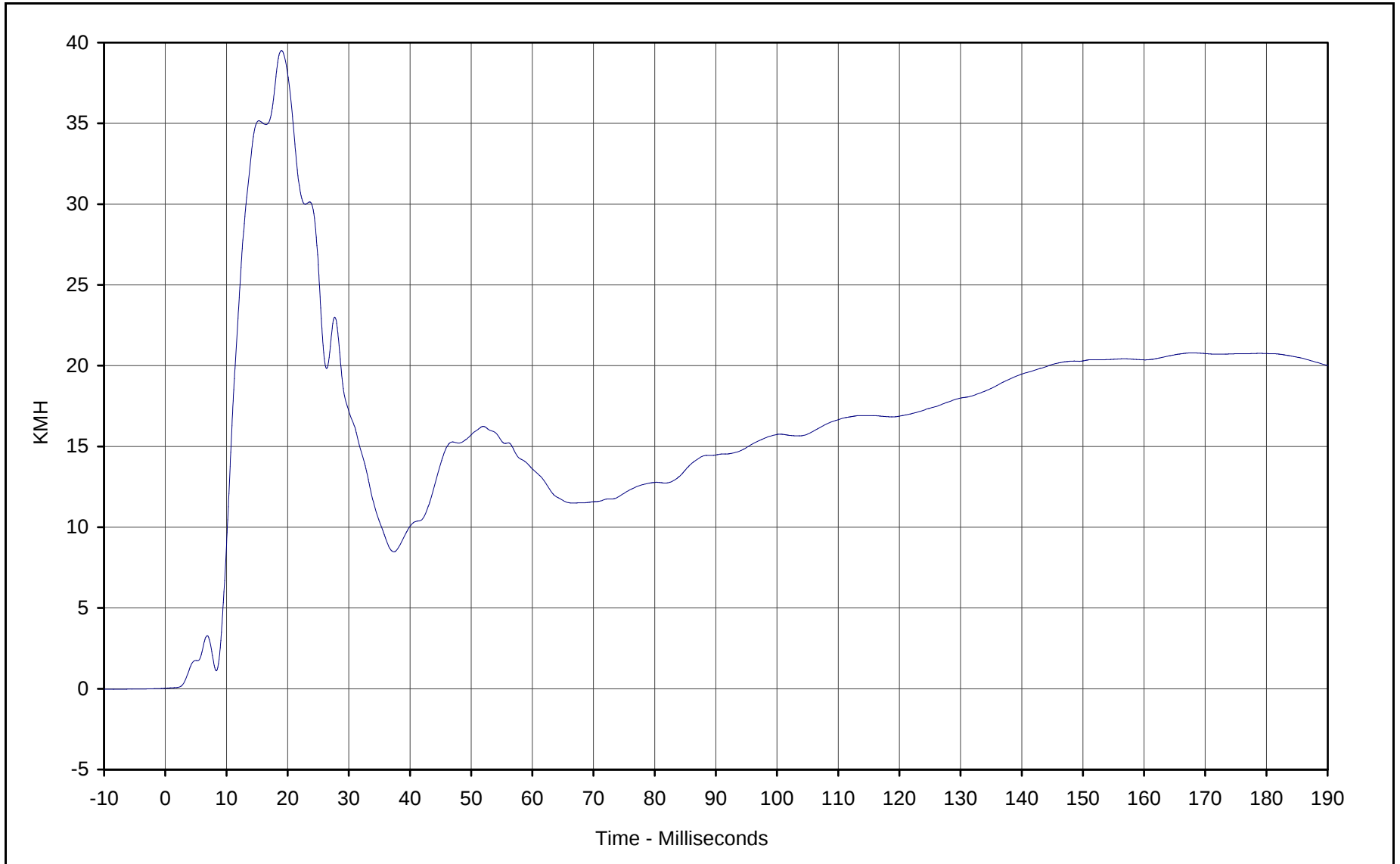




Curve Description: Left Front Door Centerline Y
Maximum Value: 177.7 at 11.1 Milliseconds
Minimum Value: -71.1 at 24.8 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-038

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

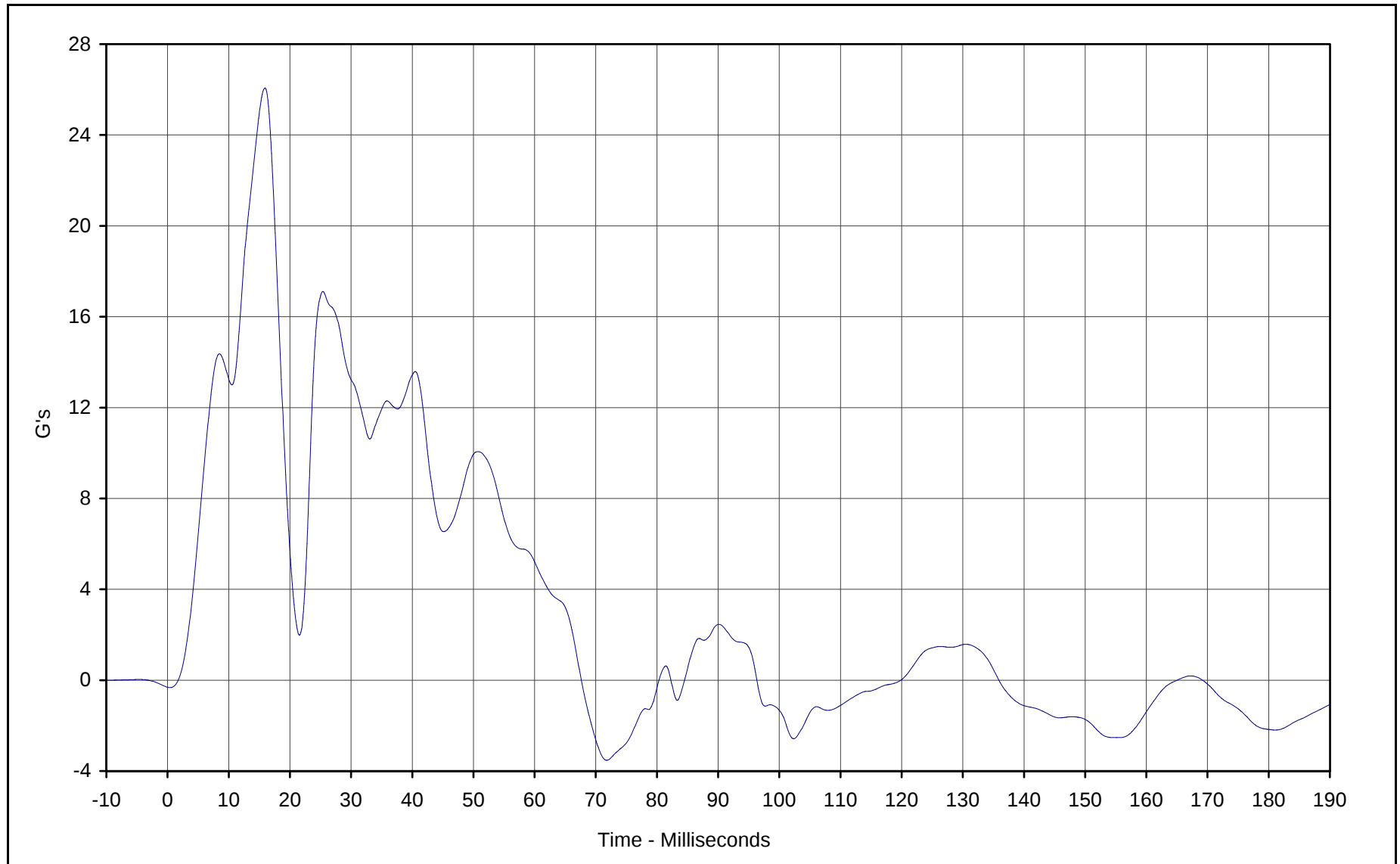




Curve Description: Left Front Door CL Y Velocity
Maximum Value: 39.5 at 19.0 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-038

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

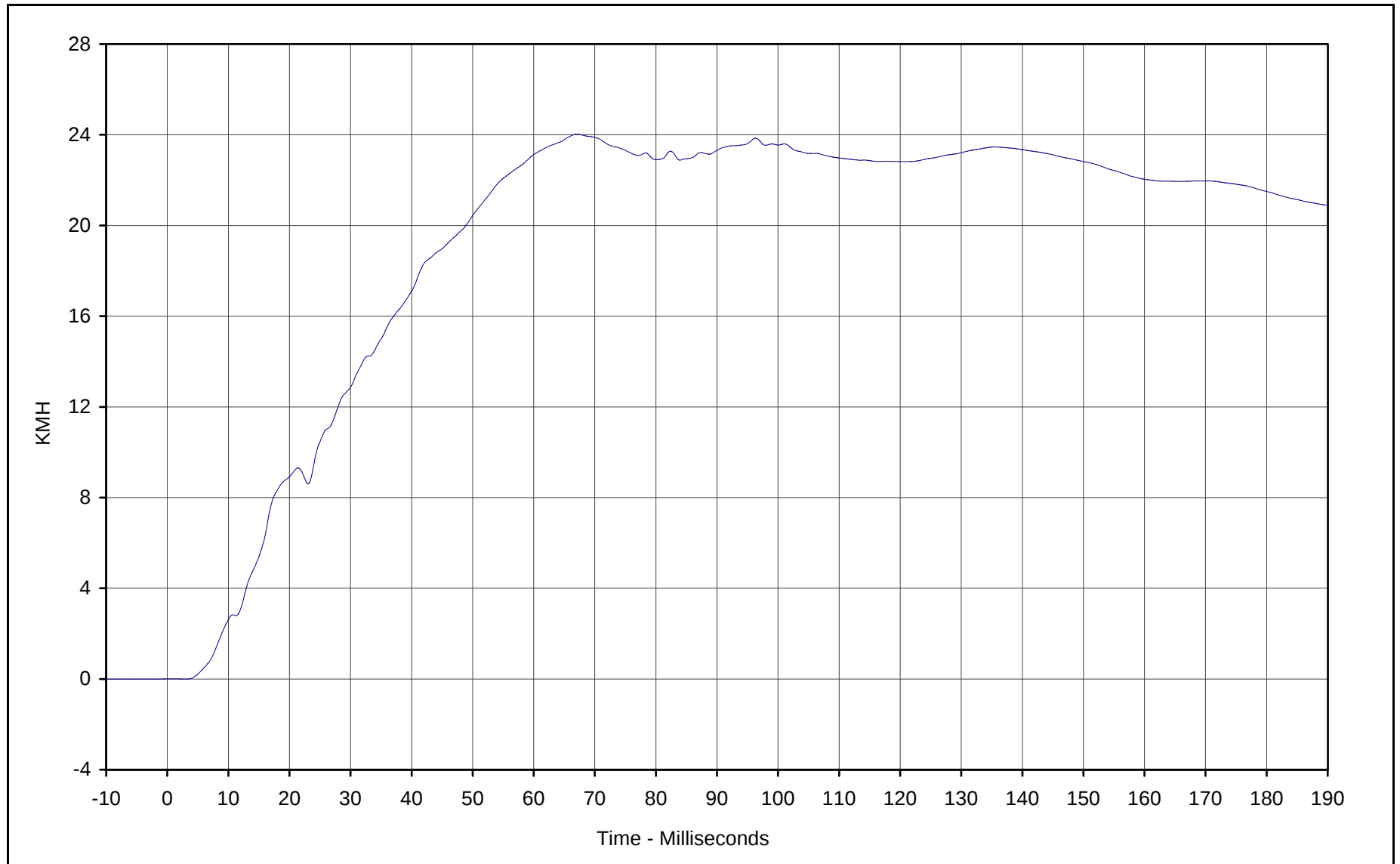




Curve Description: Right Rear Occ. Compartment Y
Maximum Value: 26.1 at 15.9 Milliseconds
Minimum Value: -3.5 at 71.8 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-039

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



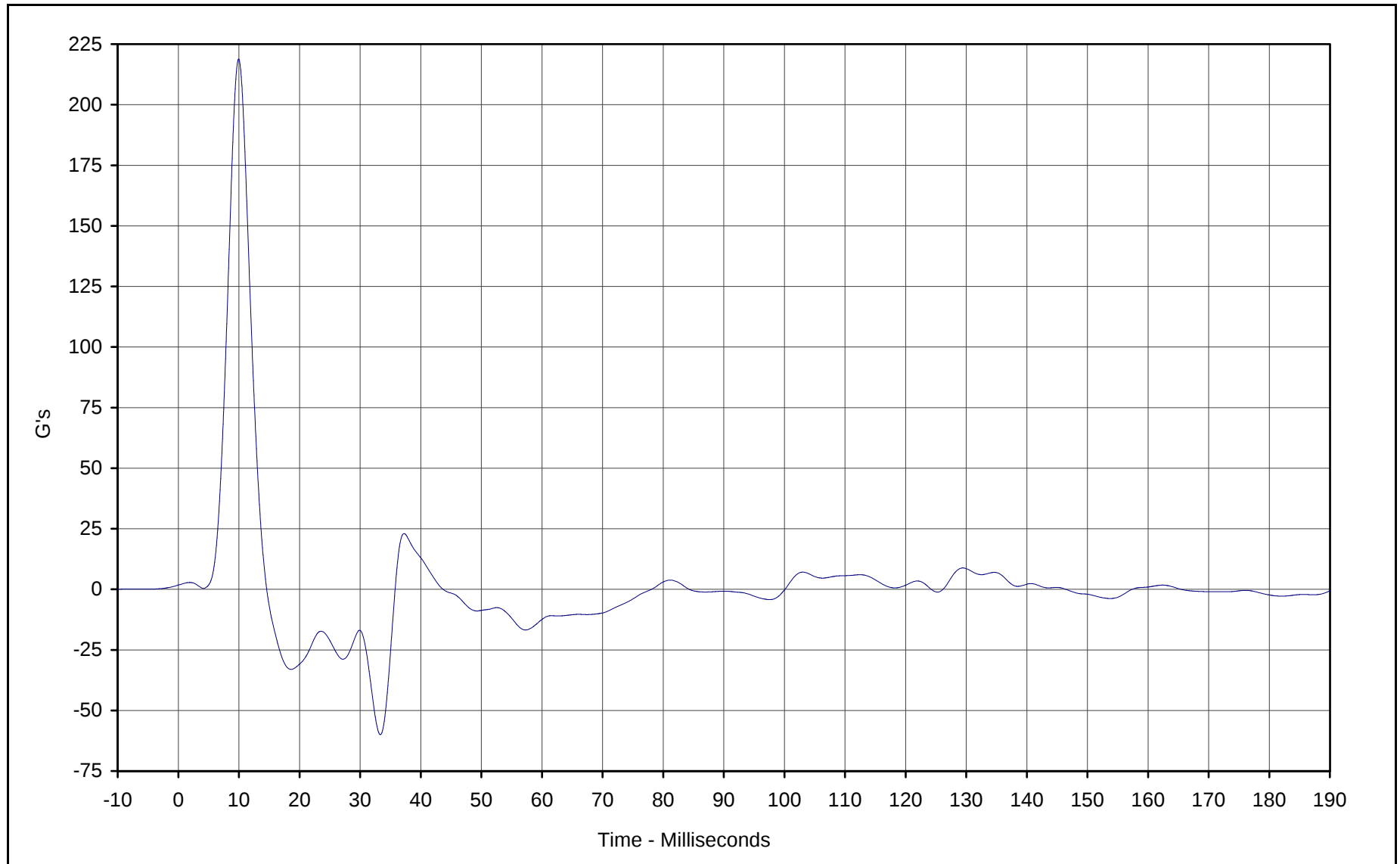


Curve Description: Right Rear Occ. Comp. Y Velocity
Maximum Value: 24.0 at 67.1 Milliseconds
Minimum Value: 0.0 at 3.1 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-039

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



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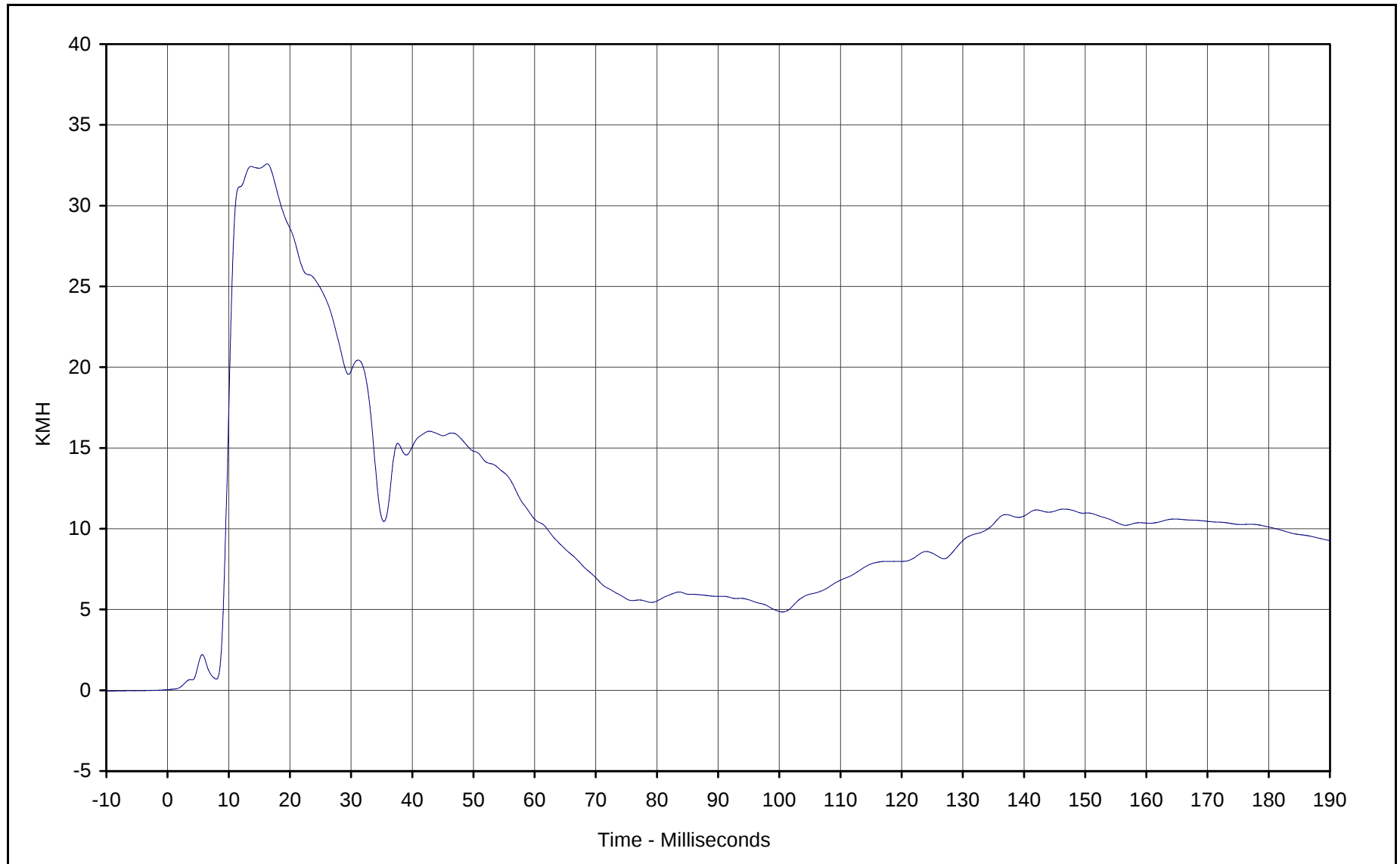


Curve Description: Left Front Door Mid Rear Y
Maximum Value: 218.8 at 10.0 Milliseconds
Minimum Value: -60.0 at 33.3 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-040

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



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Curve Description: Left Front Door Mid Rear Y Velocity

Maximum Value: 32.6 at 16.3 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

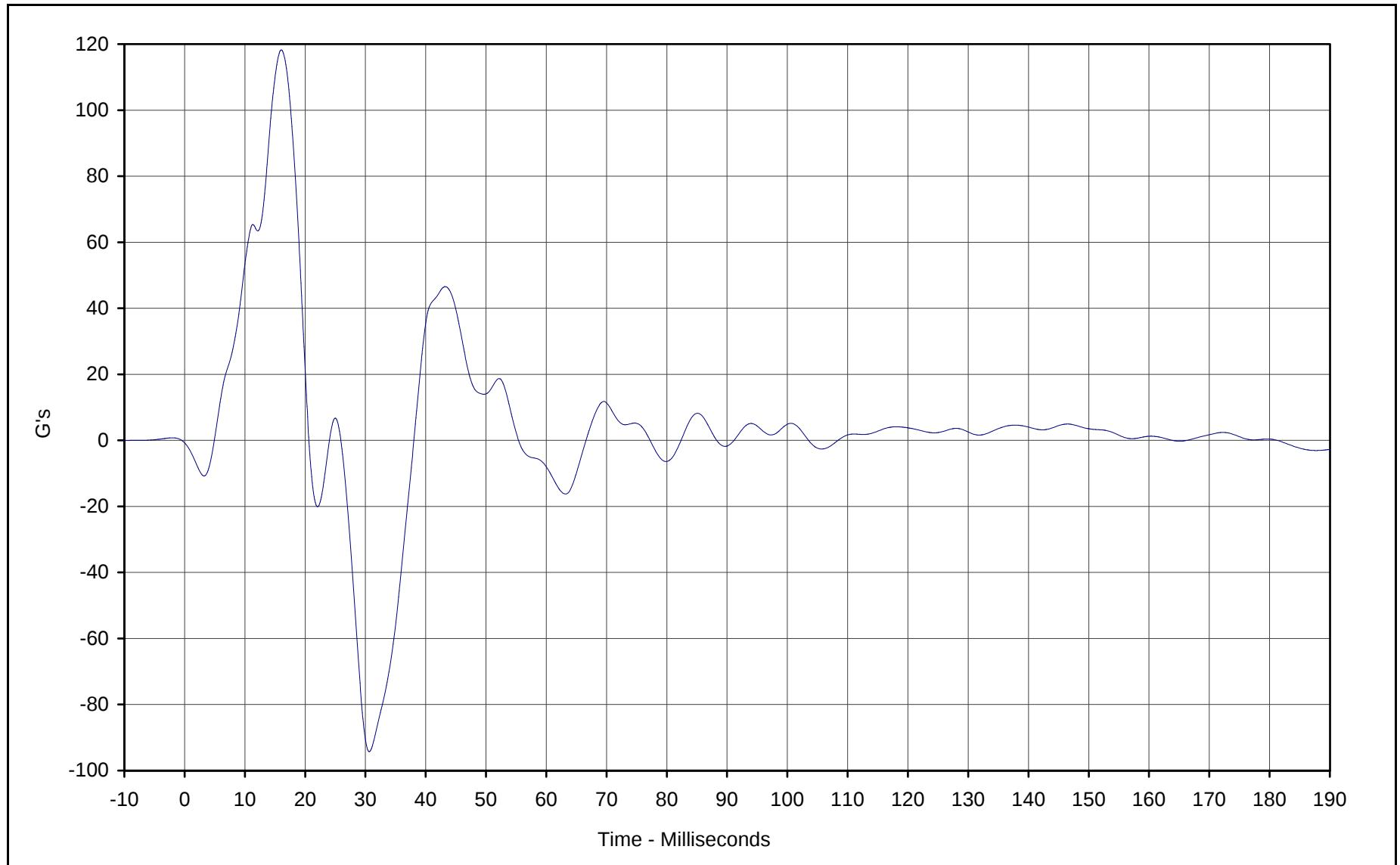
Date of Test: 02/01/01

Curve Number: IN1-040

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

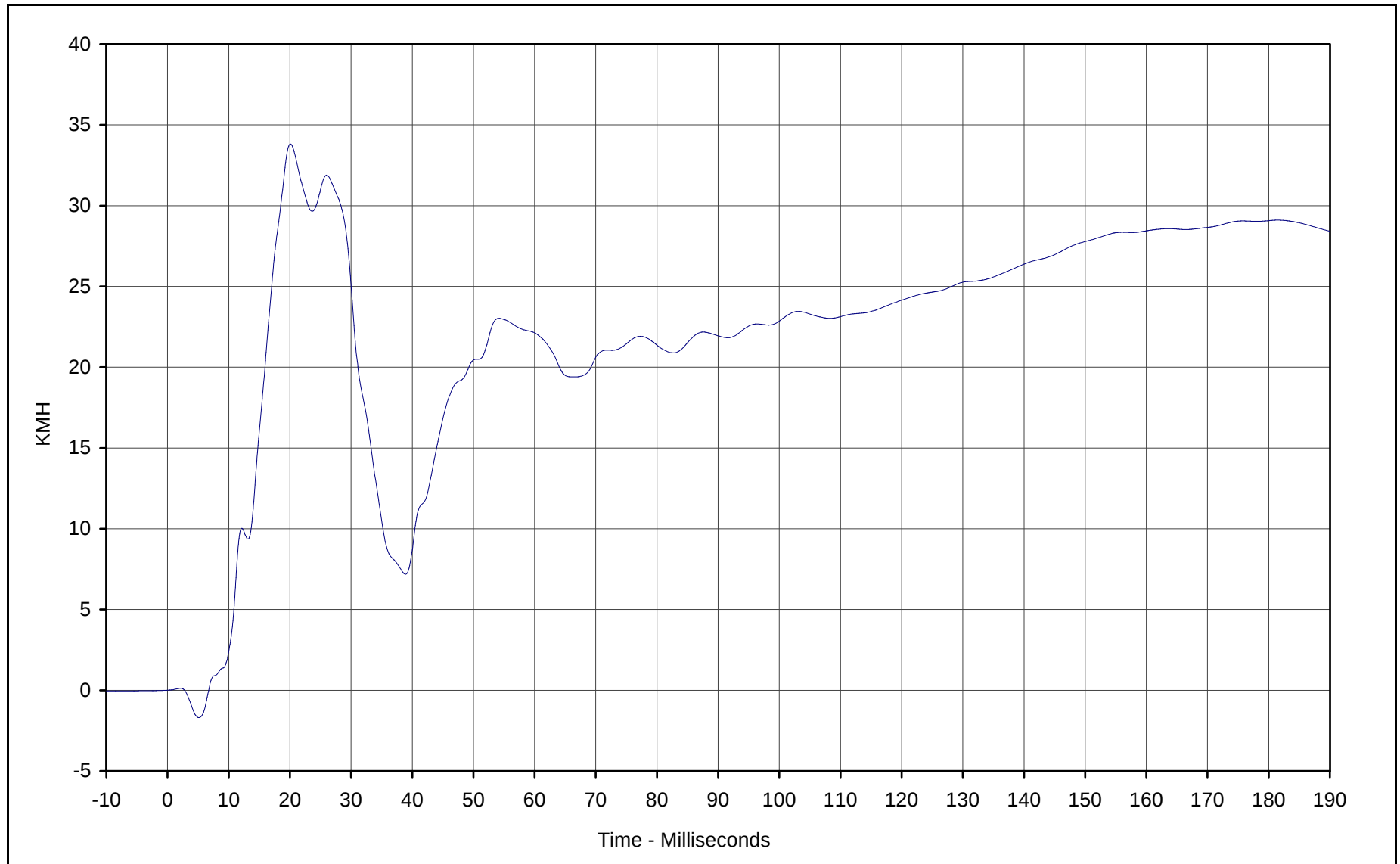




Curve Description: Left Front Door Upper CL Y
Maximum Value: 118.2 at 16.0 Milliseconds
Minimum Value: -94.2 at 30.6 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-041

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Left Front Door Upper CL Y Velocity

Maximum Value: 33.8 at 20.1 Milliseconds

Minimum Value: -1.7 at 5.1 Milliseconds

SAE Filter Class: 180

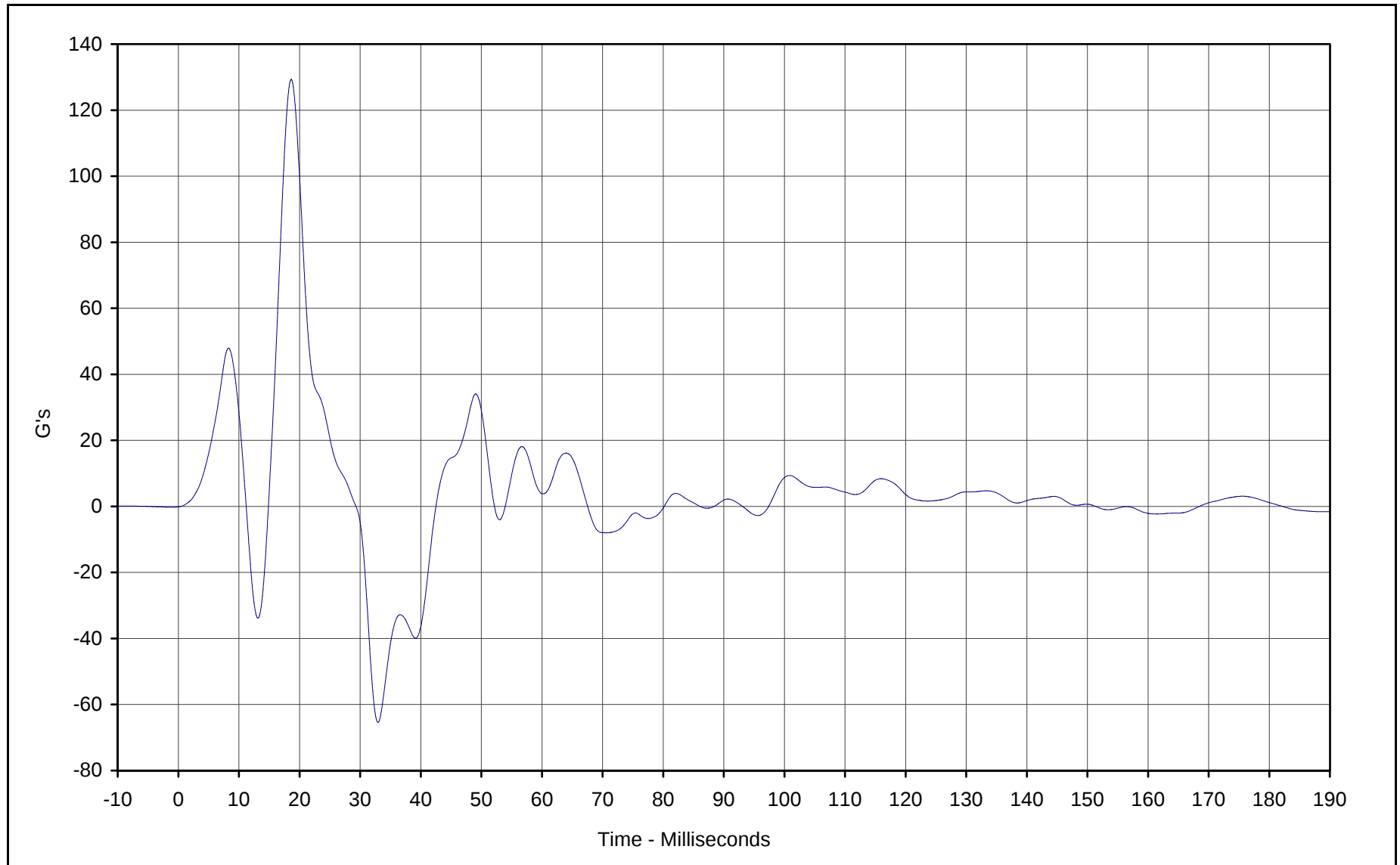
Date of Test: 02/01/01

Curve Number: IN1-041

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

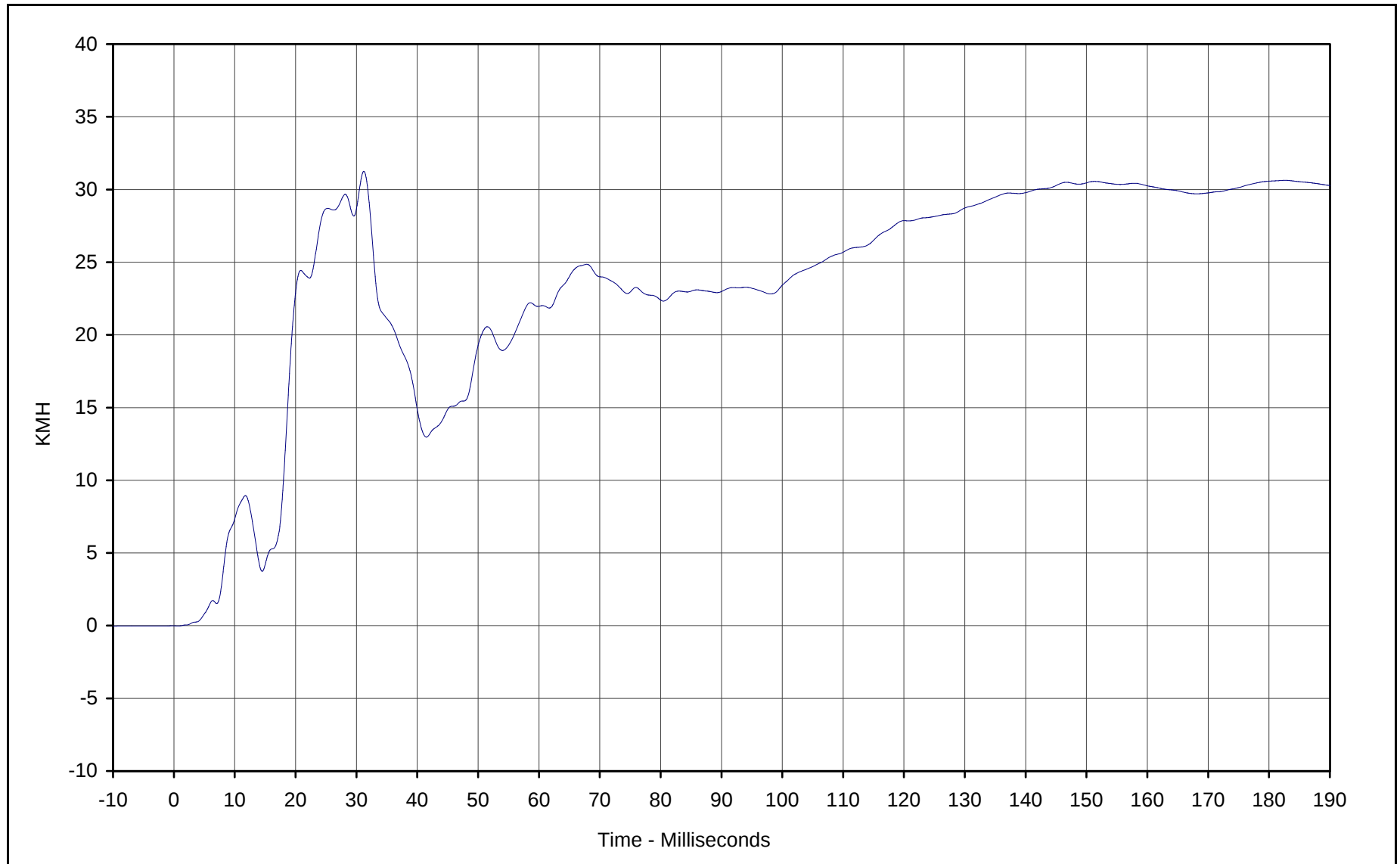




Curve Description: Left Rear Door Mid Rear Y
Maximum Value: 129.3 at 18.6 Milliseconds
Minimum Value: -65.4 at 33.0 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-042

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

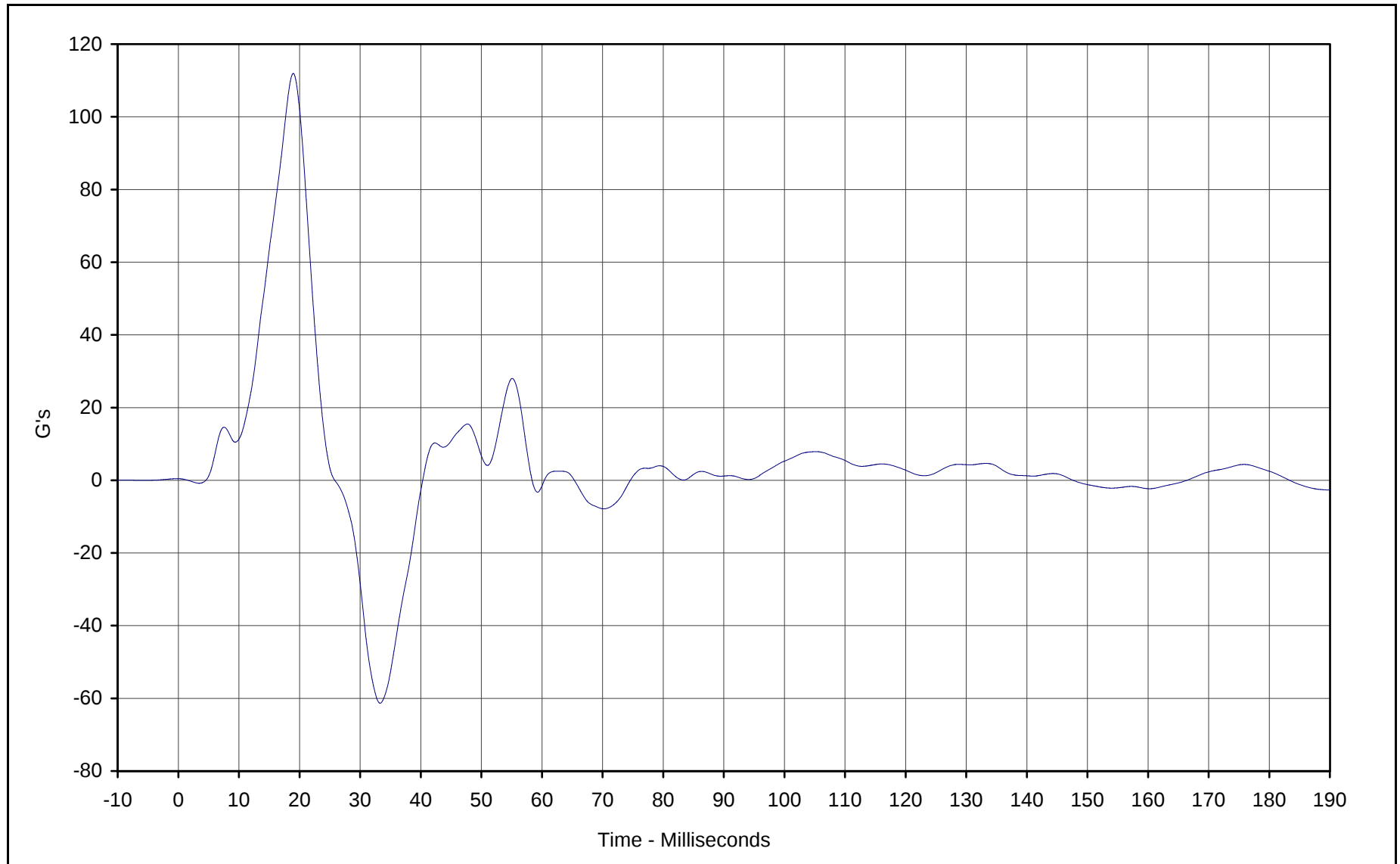




Curve Description: Left Rear Door Mid Rear Y Velocity
Maximum Value: 31.3 at 31.2 Milliseconds
Minimum Value: 0.0 at 0.7 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-042

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

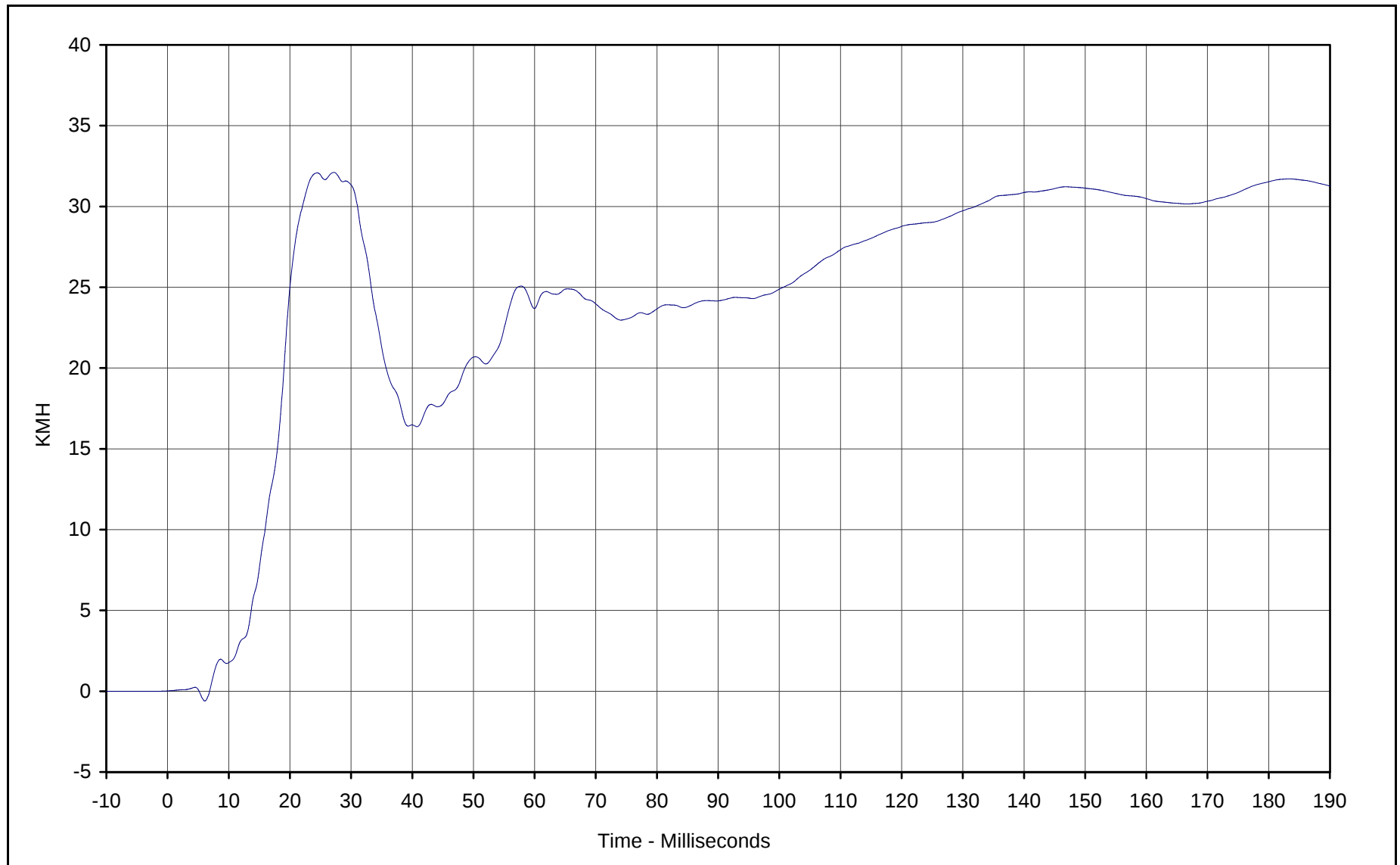




Curve Description: Left Rear Door Upper CL Y
Maximum Value: 111.9 at 19.0 Milliseconds
Minimum Value: -61.3 at 33.3 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-043

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Left Rear Door Upper CL Y Velocity

Maximum Value: 32.1 at 27.2 Milliseconds

Minimum Value: -0.6 at 6.1 Milliseconds

SAE Filter Class: 180

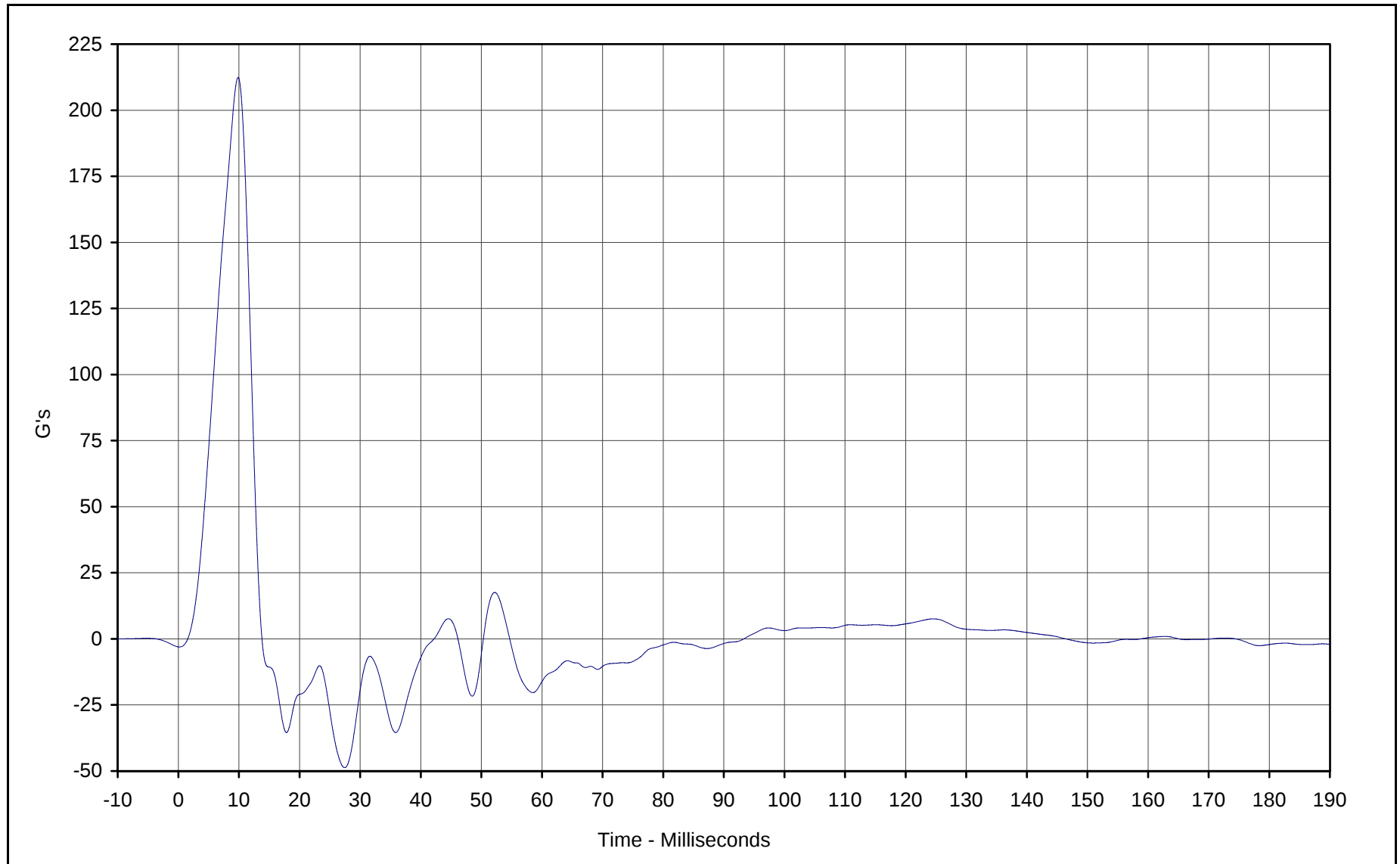
Date of Test: 02/01/01

Curve Number: IN1-043

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

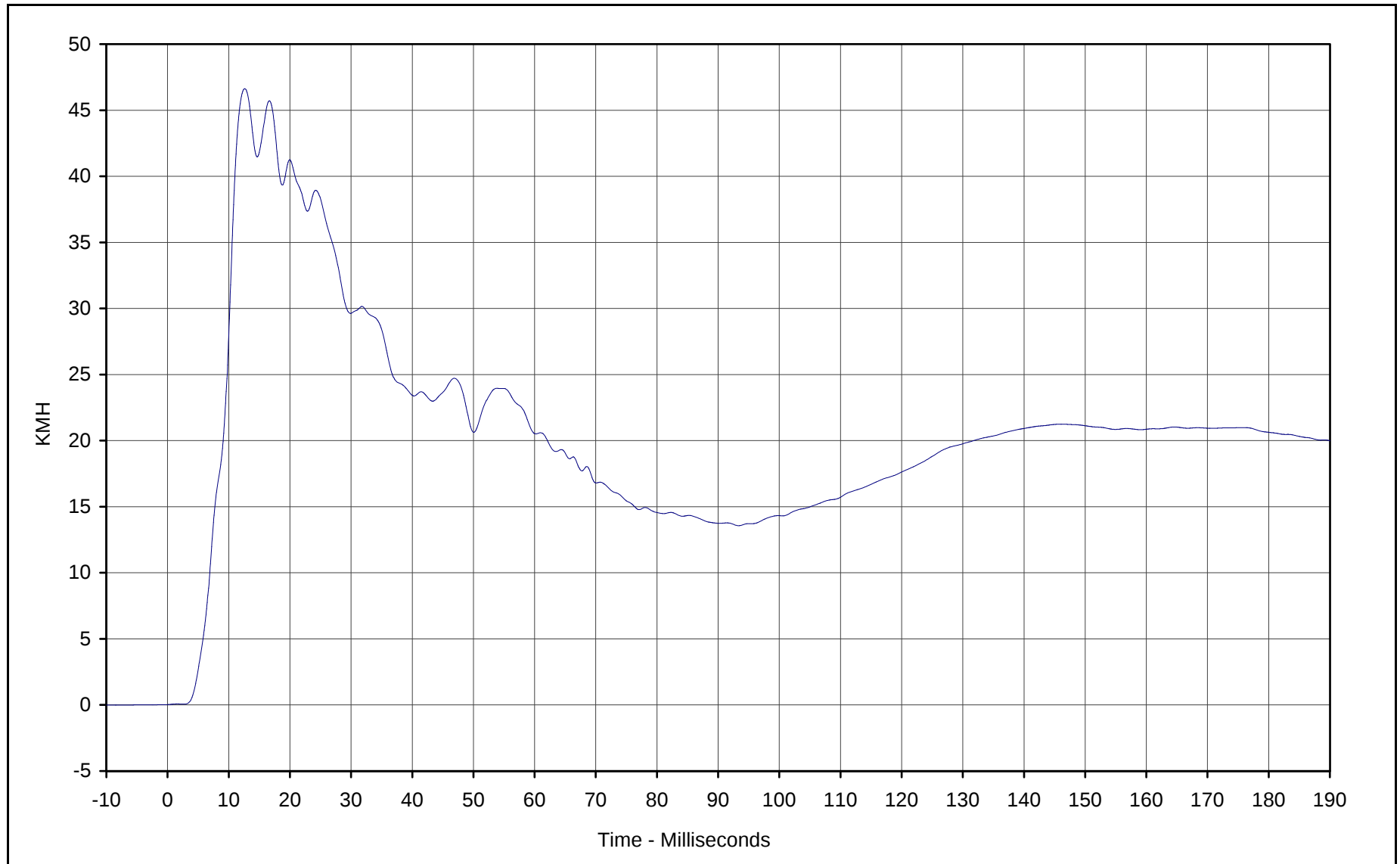




Curve Description: Left B-Post Lower Y
Maximum Value: 212.4 at 9.9 Milliseconds
Minimum Value: -48.7 at 27.4 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-044

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



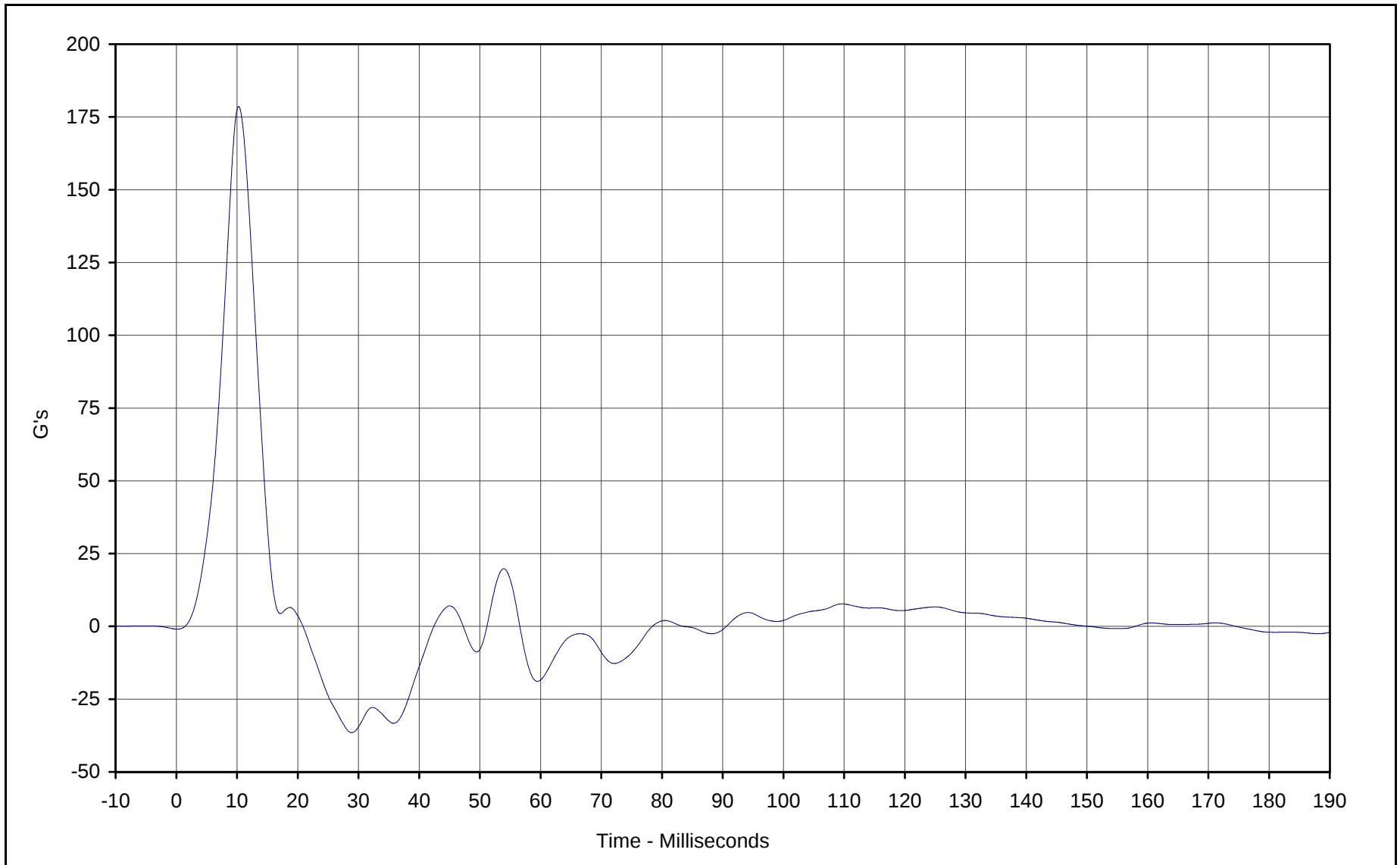


Curve Description: Left B-Post Lower Y Velocity
Maximum Value: 46.6 at 12.6 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-044

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



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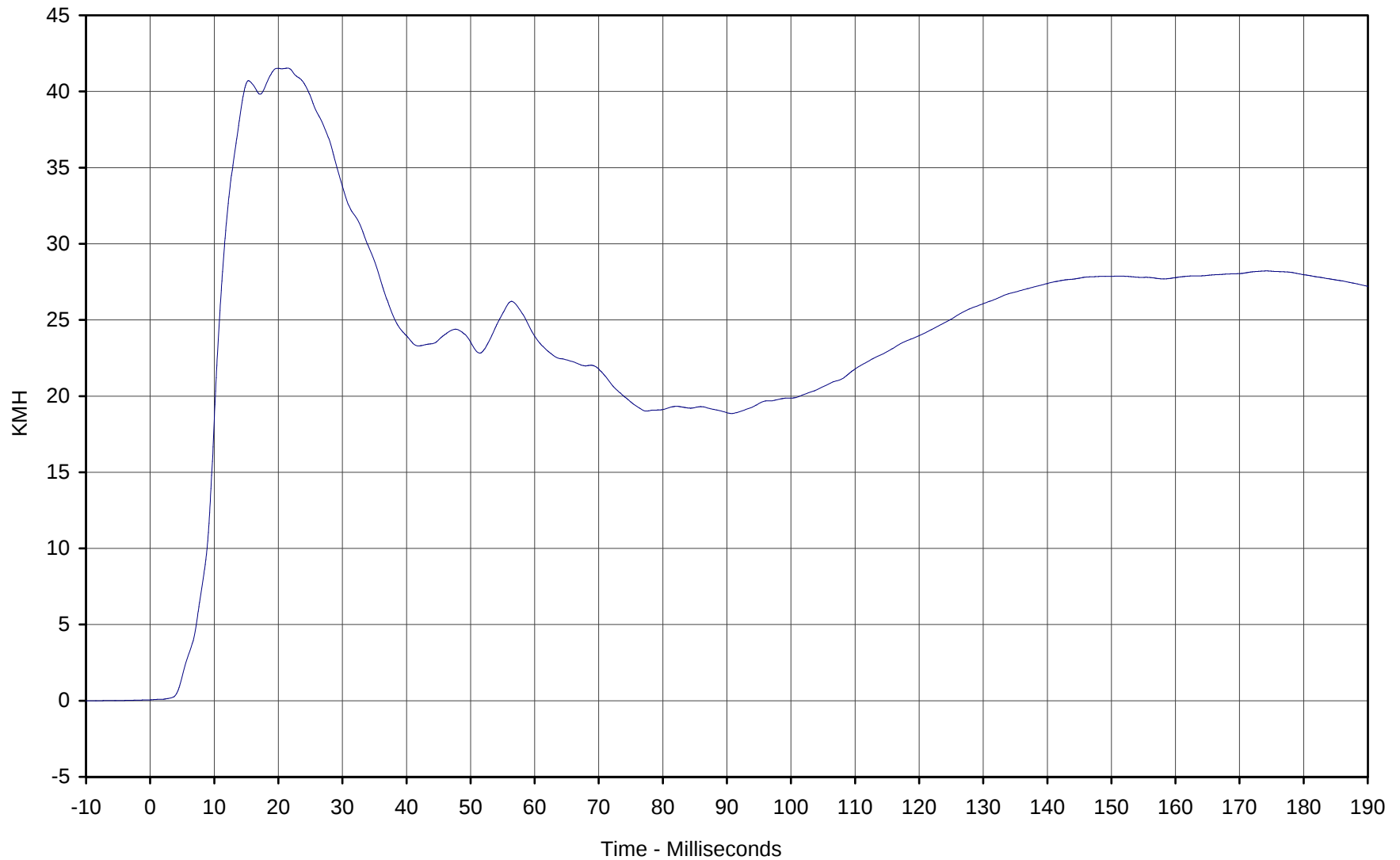
Curve Description: Left B-Post Middle Y
Maximum Value: 178.6 at 10.3 Milliseconds
Minimum Value: -36.5 at 28.9 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-045

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



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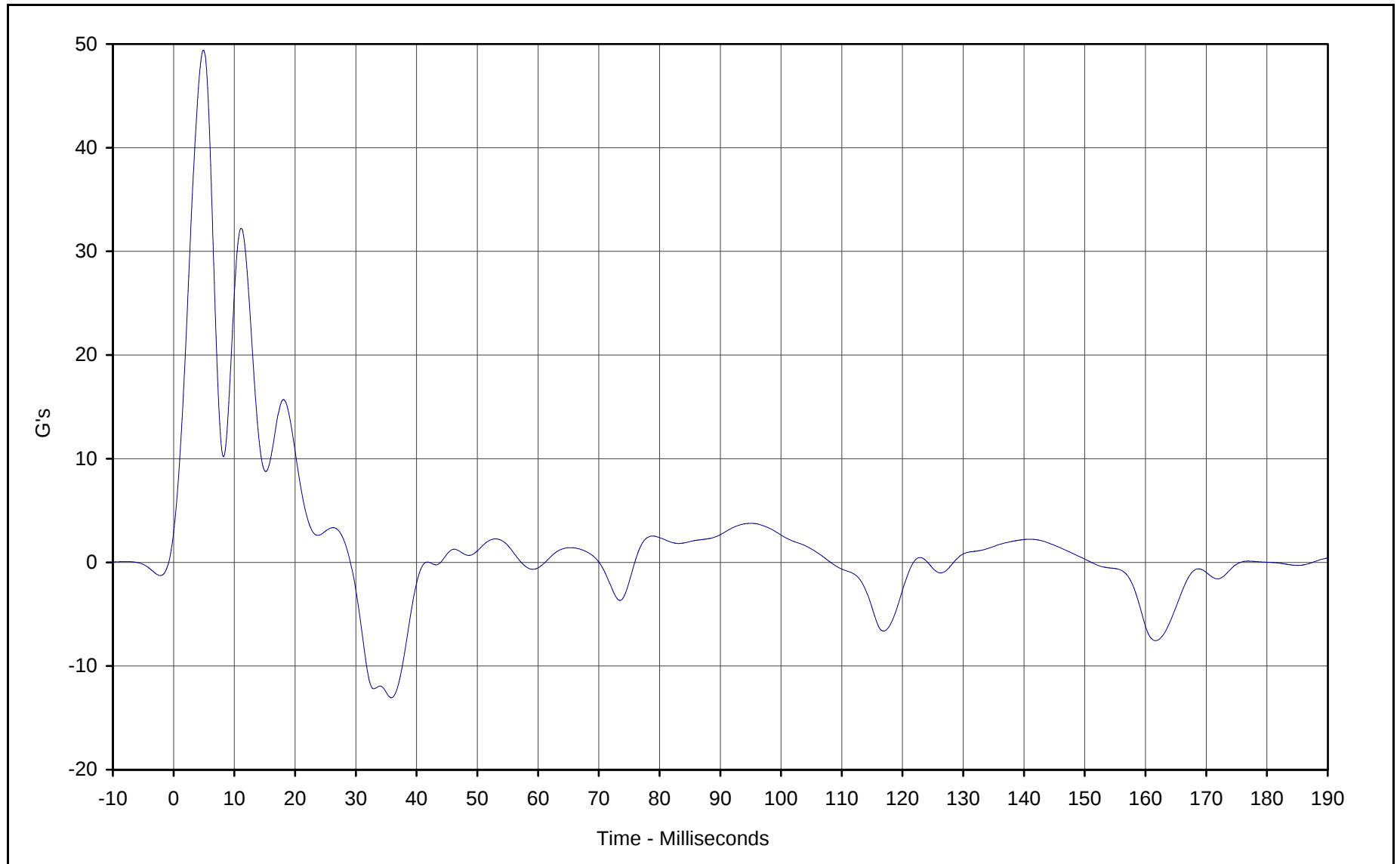


Curve Description: Left B-Post Middle Y Velocity
Maximum Value: 41.5 at 21.4 Milliseconds
Minimum Value: 0.1 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-045

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



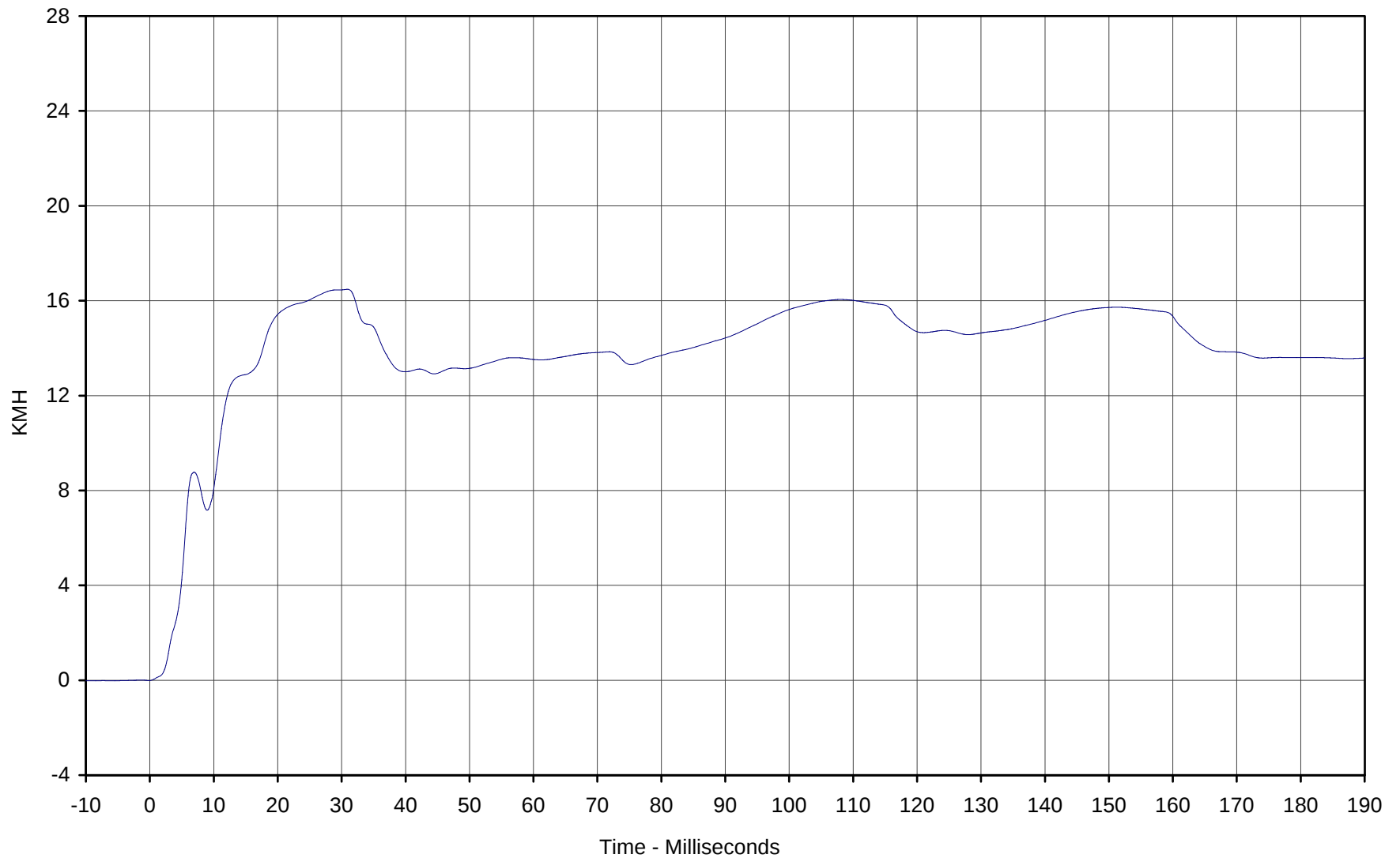
KAR21003-10



Curve Description: Left A-Post Lower Y
Maximum Value: 49.4 at 4.9 Milliseconds
Minimum Value: -13.1 at 35.8 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-046

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

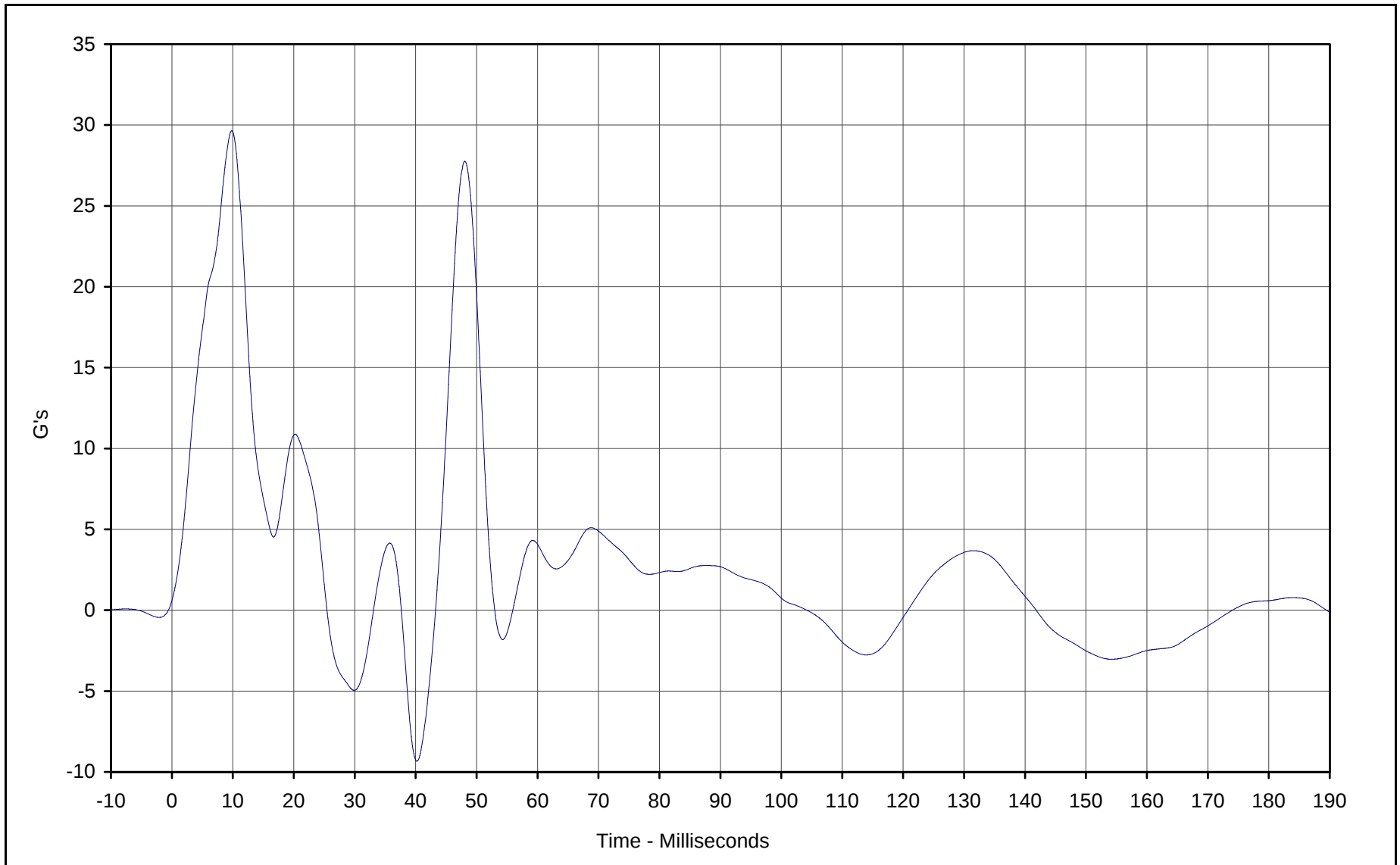




Curve Description: Left A-Post Lower Y Velocity
Maximum Value: 16.5 at 30.9 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-046

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

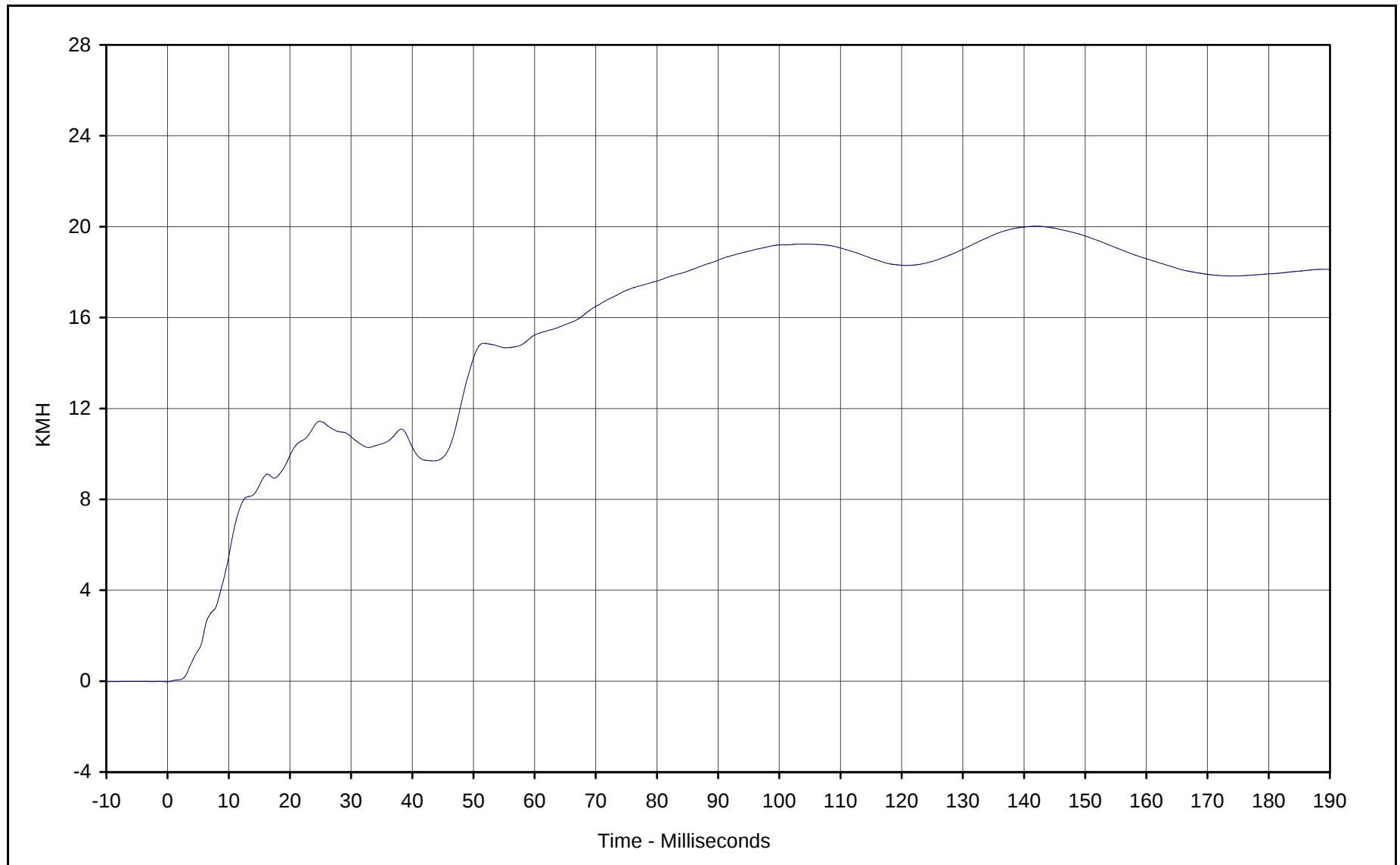




Curve Description: Left A-Post Middle Y
Maximum Value: 29.6 at 9.8 Milliseconds
Minimum Value: -9.3 at 40.2 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-047

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

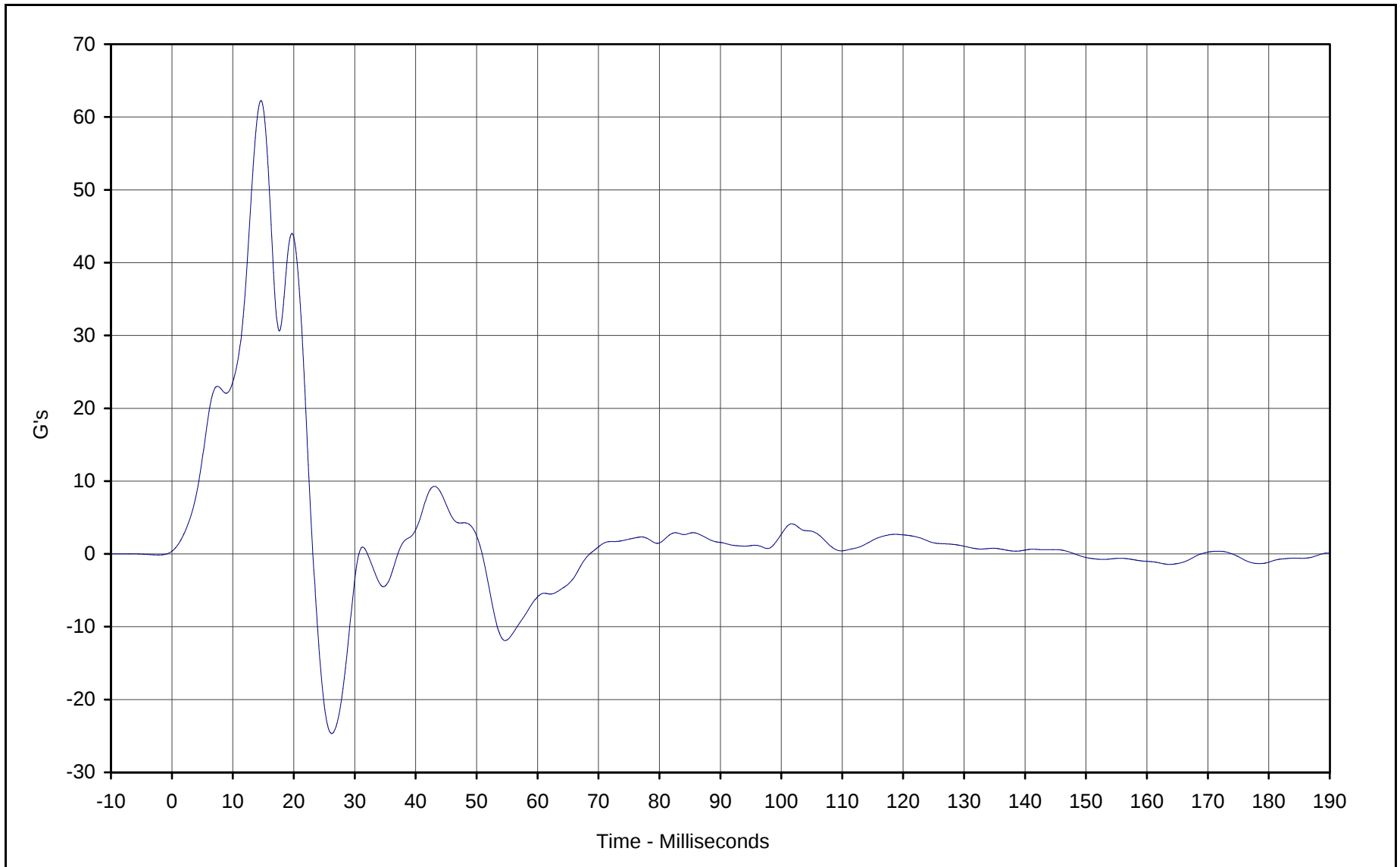




Curve Description: Left A-Post Middle Y Velocity
Maximum Value: 20.0 at 142.0 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-047

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

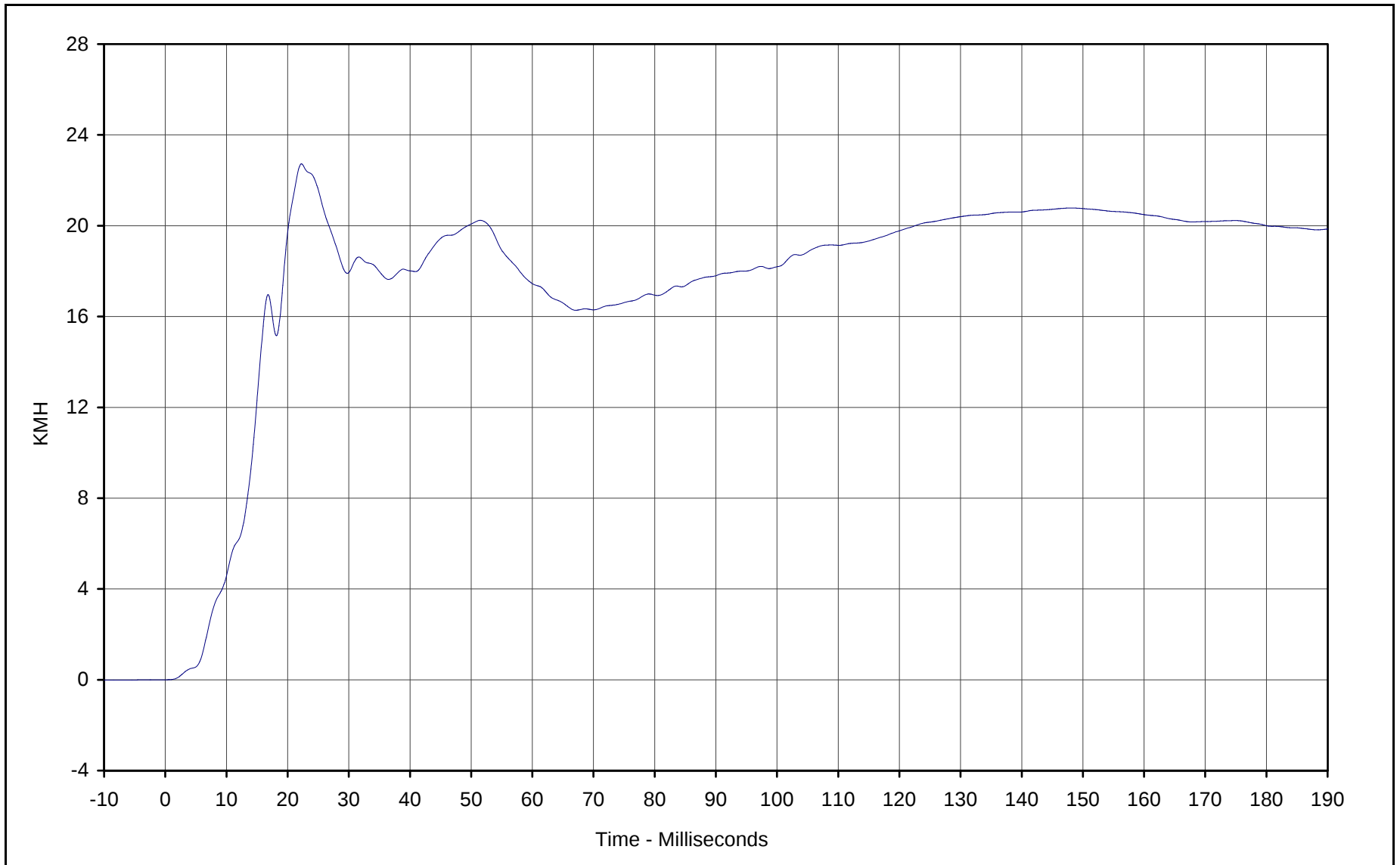




Curve Description: Left Front Seat Track Y
Maximum Value: 62.3 at 14.6 Milliseconds
Minimum Value: -24.7 at 26.2 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-048

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

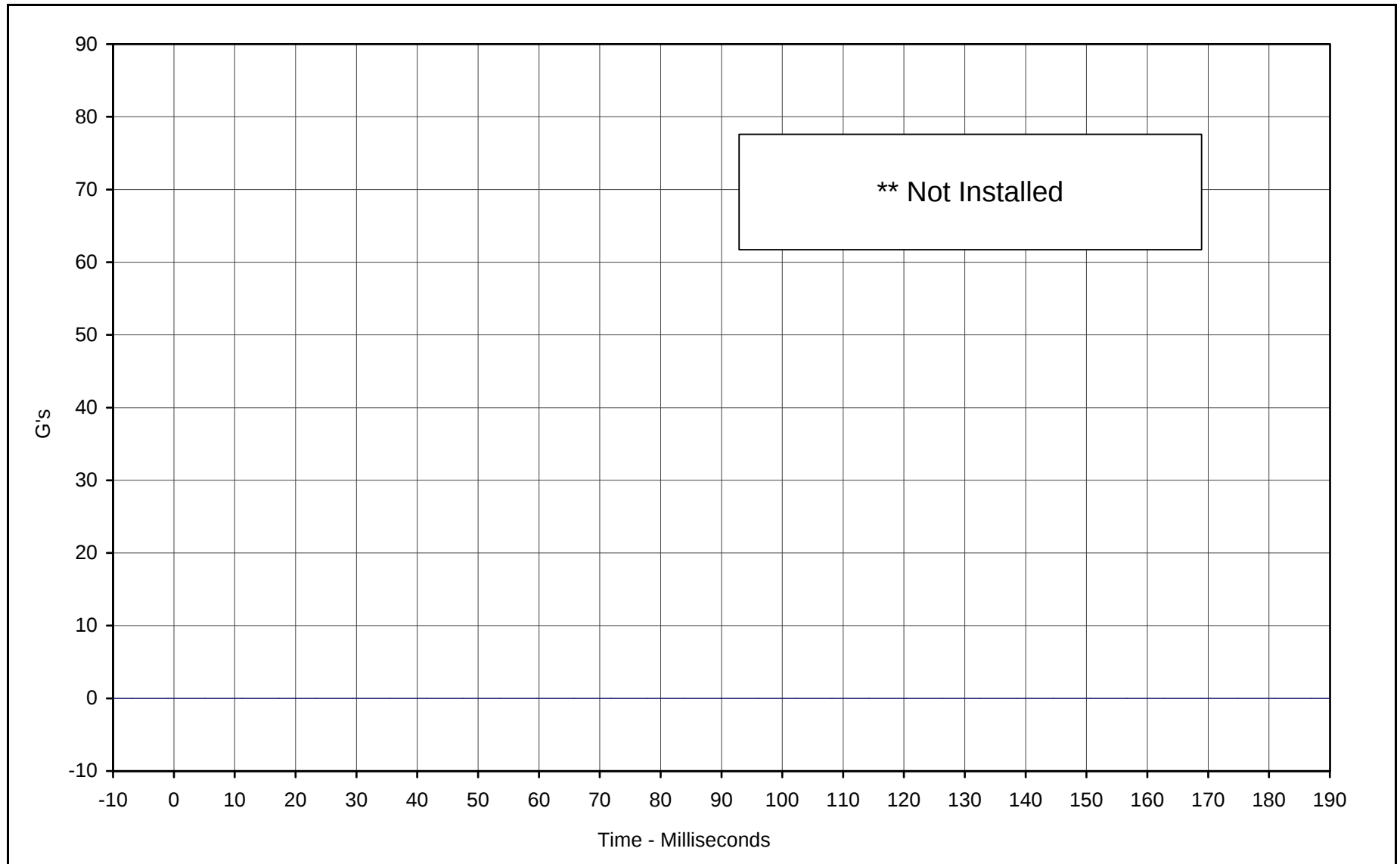




Curve Description: Left Front Seat Track Y Velocity
Maximum Value: 22.7 at 22.2 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-048

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Left Rear Seat Structure Y **

Maximum Value: 0.0 at 0.0 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 60

Date of Test: 02/01/01

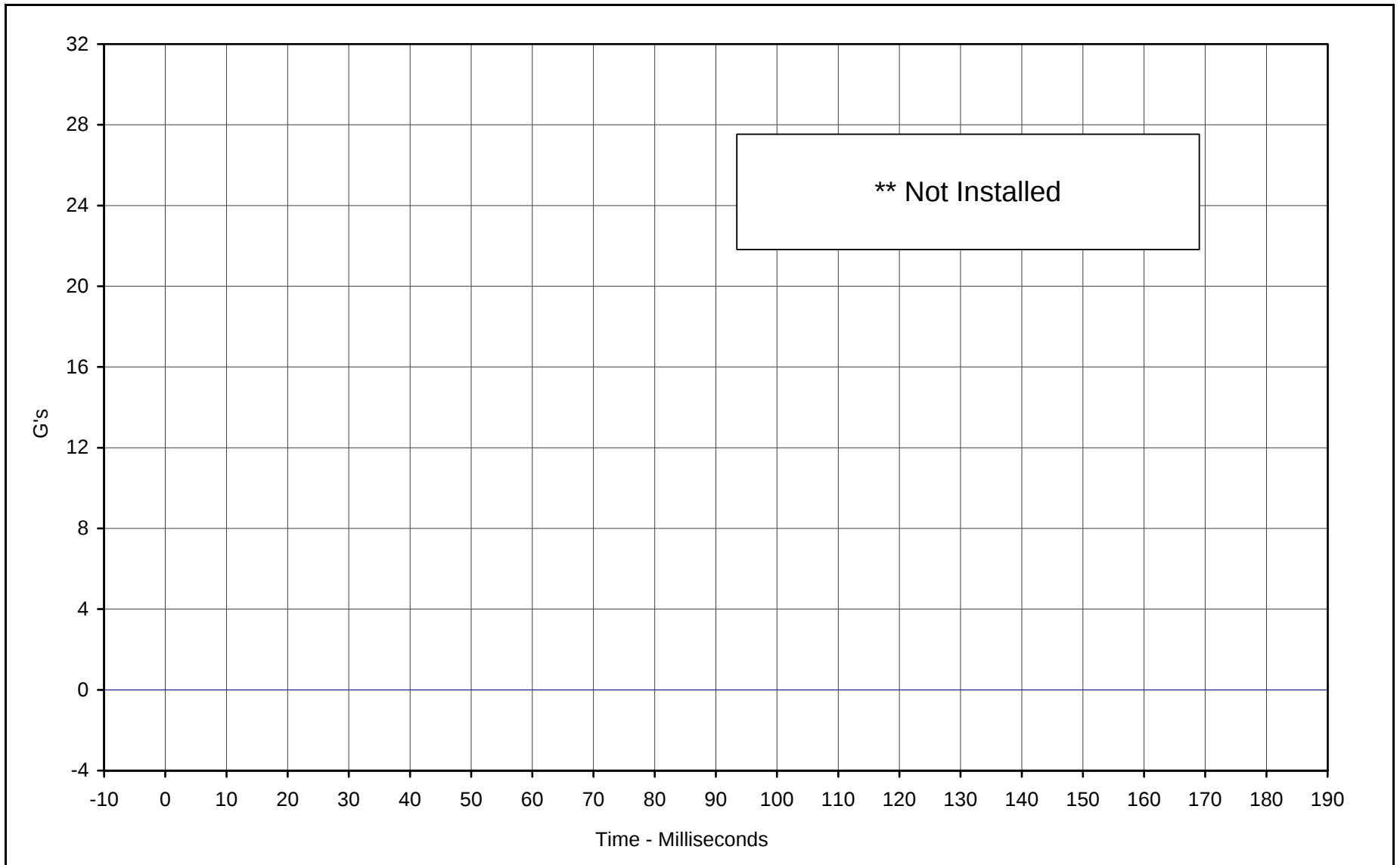
Curve Number: FIL-049

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

** Not Installed





Curve Description: Left Rear Seat Structure Y Velocity **

Maximum Value: 0.0 at 0.0 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

Date of Test: 02/01/01

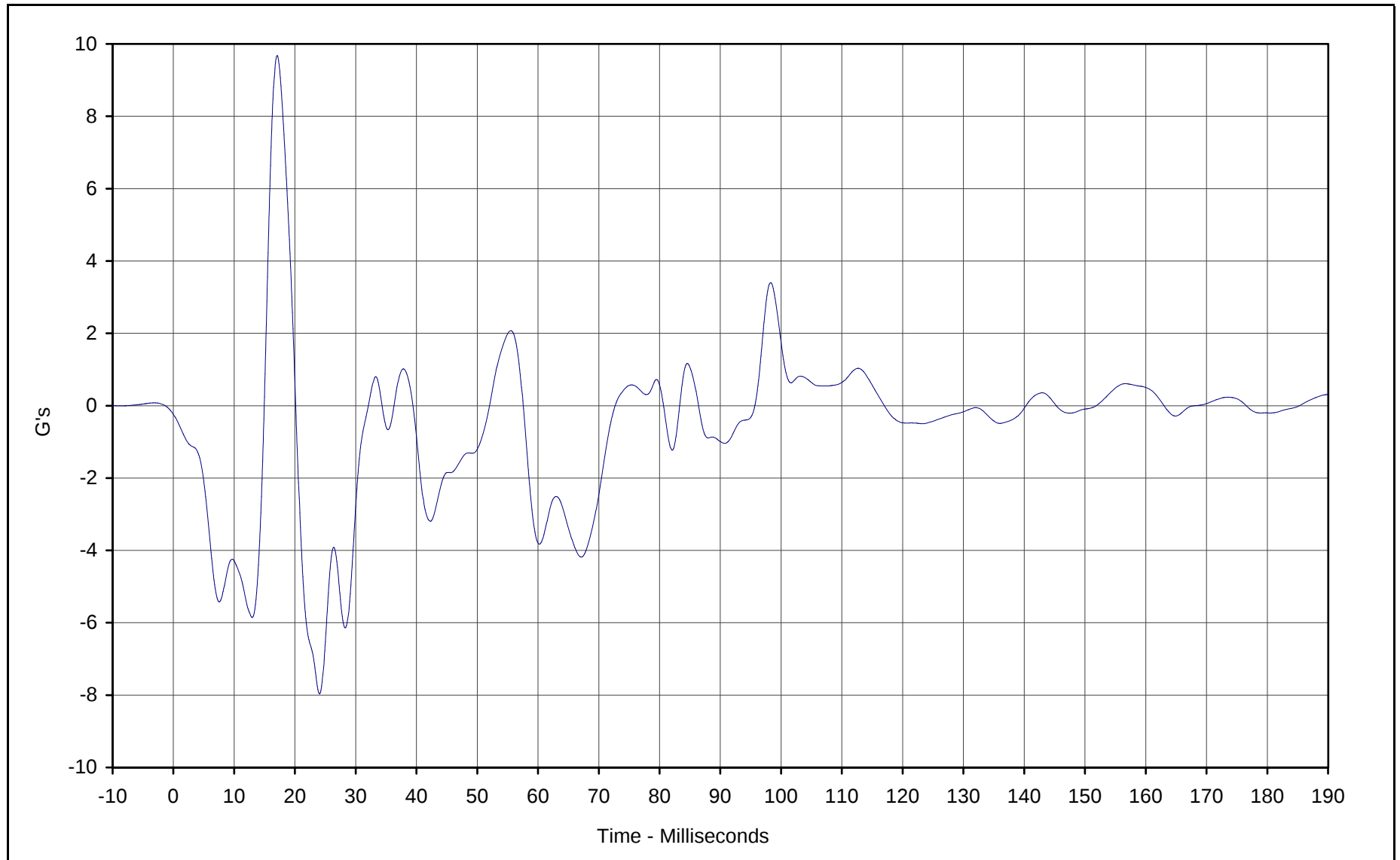
Curve Number: IN1-049

Test Program: 55/28 km/h Side Impact NCAP No.: M15205

Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

** Not Installed

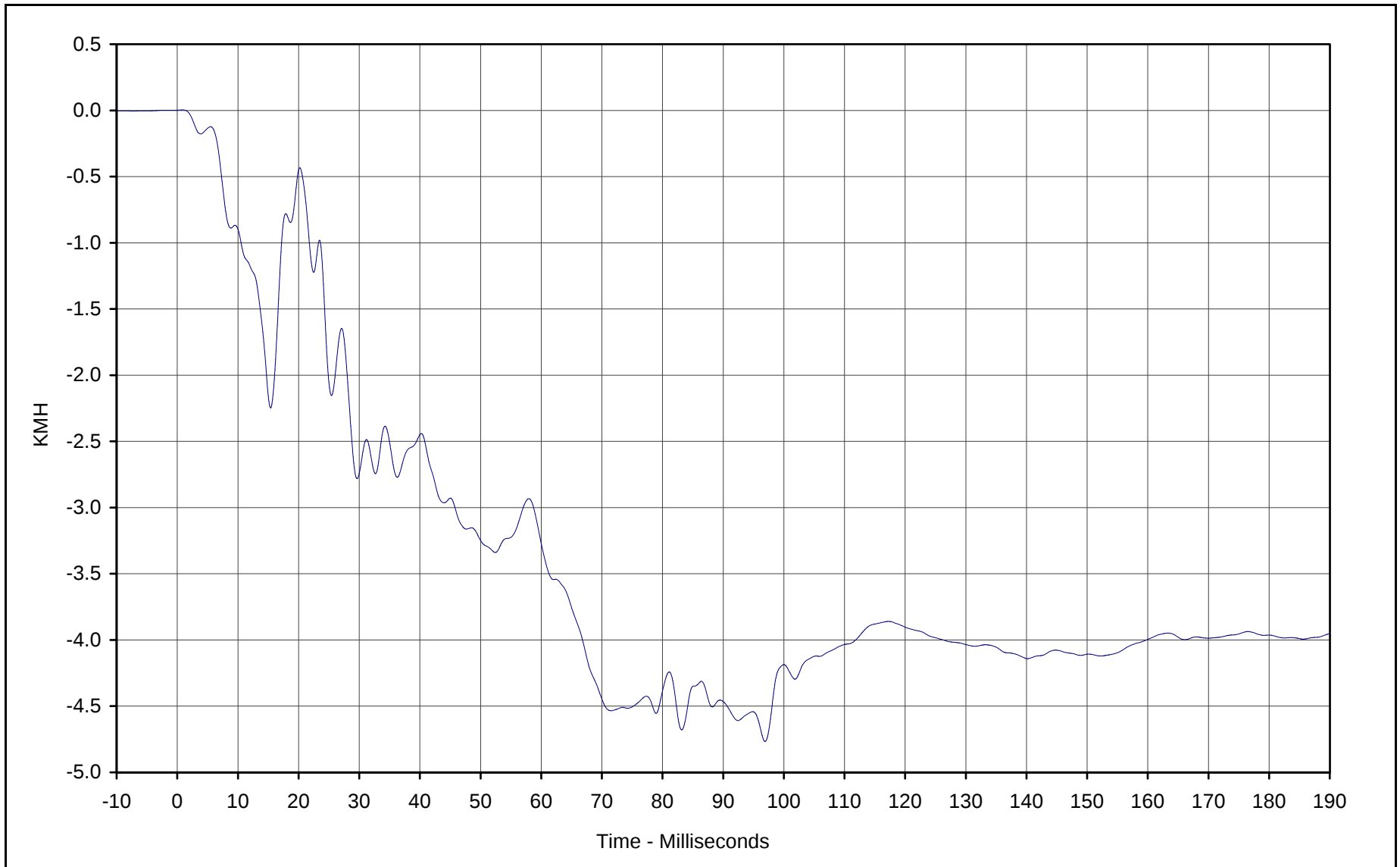




Curve Description: Vehicle CG X
Maximum Value: 9.7 at 17.1 Milliseconds
Minimum Value: -8.0 at 24.1 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-050

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

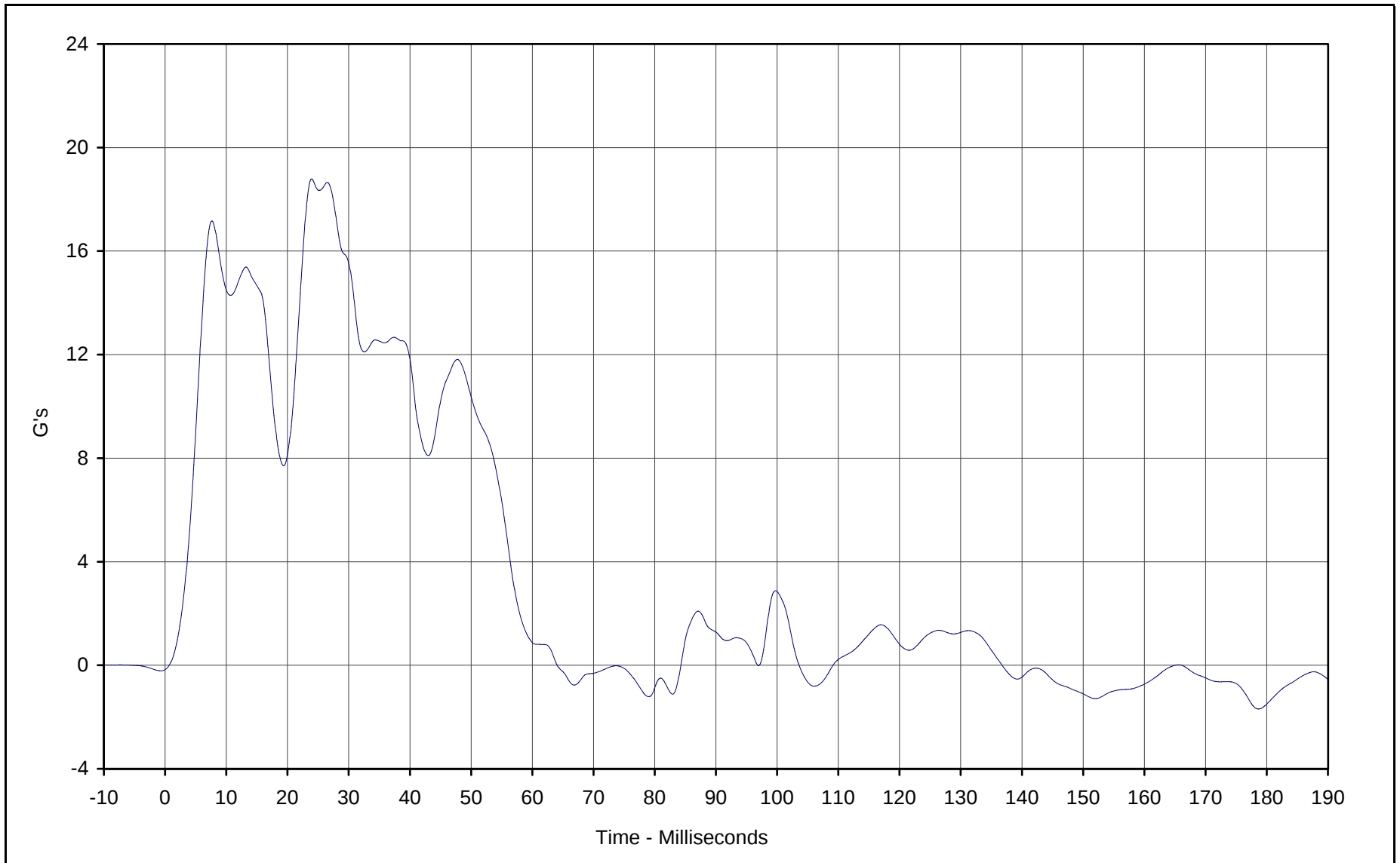




Curve Description: Vehicle CG X Velocity
Maximum Value: 0.0 at 0.9 Milliseconds
Minimum Value: -4.8 at 96.9 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-050

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

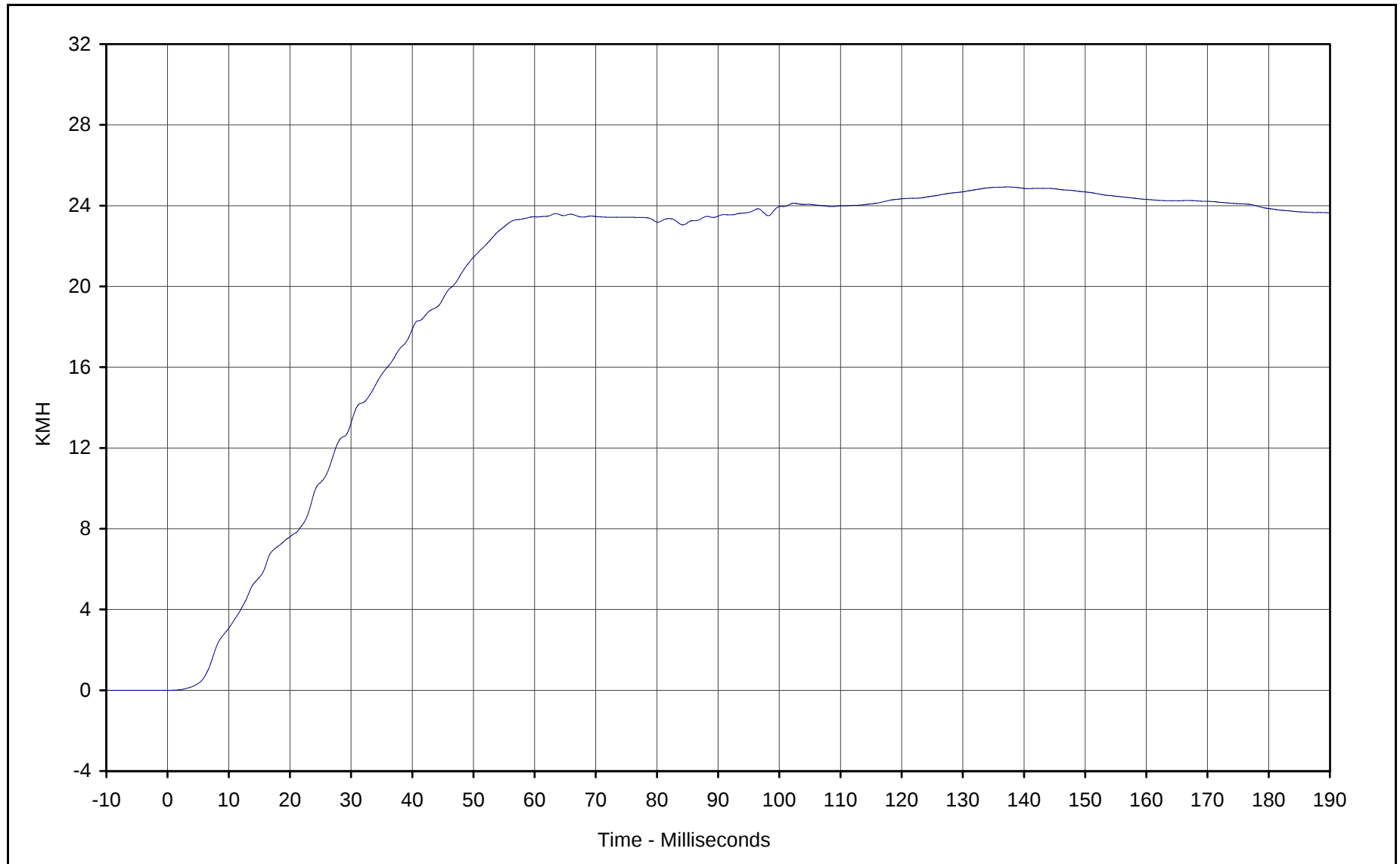




Curve Description: Vehicle CG Y
Maximum Value: 18.8 at 24.0 Milliseconds
Minimum Value: -1.7 at 178.6 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-051

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

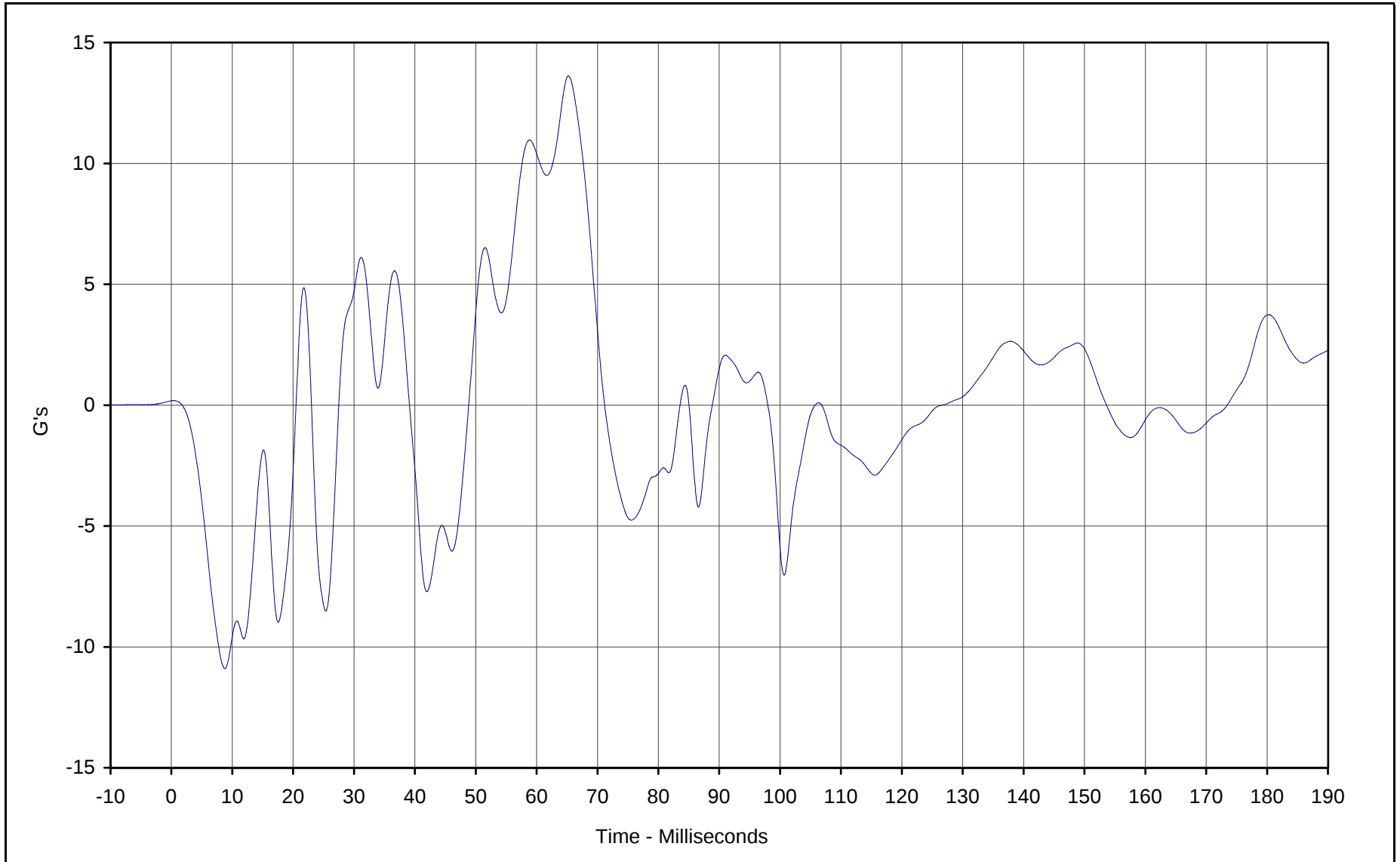




Curve Description: Vehicle CG Y Velocity
Maximum Value: 24.9 at 137.3 Milliseconds
Minimum Value: 0.0 at 0.5 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-051

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

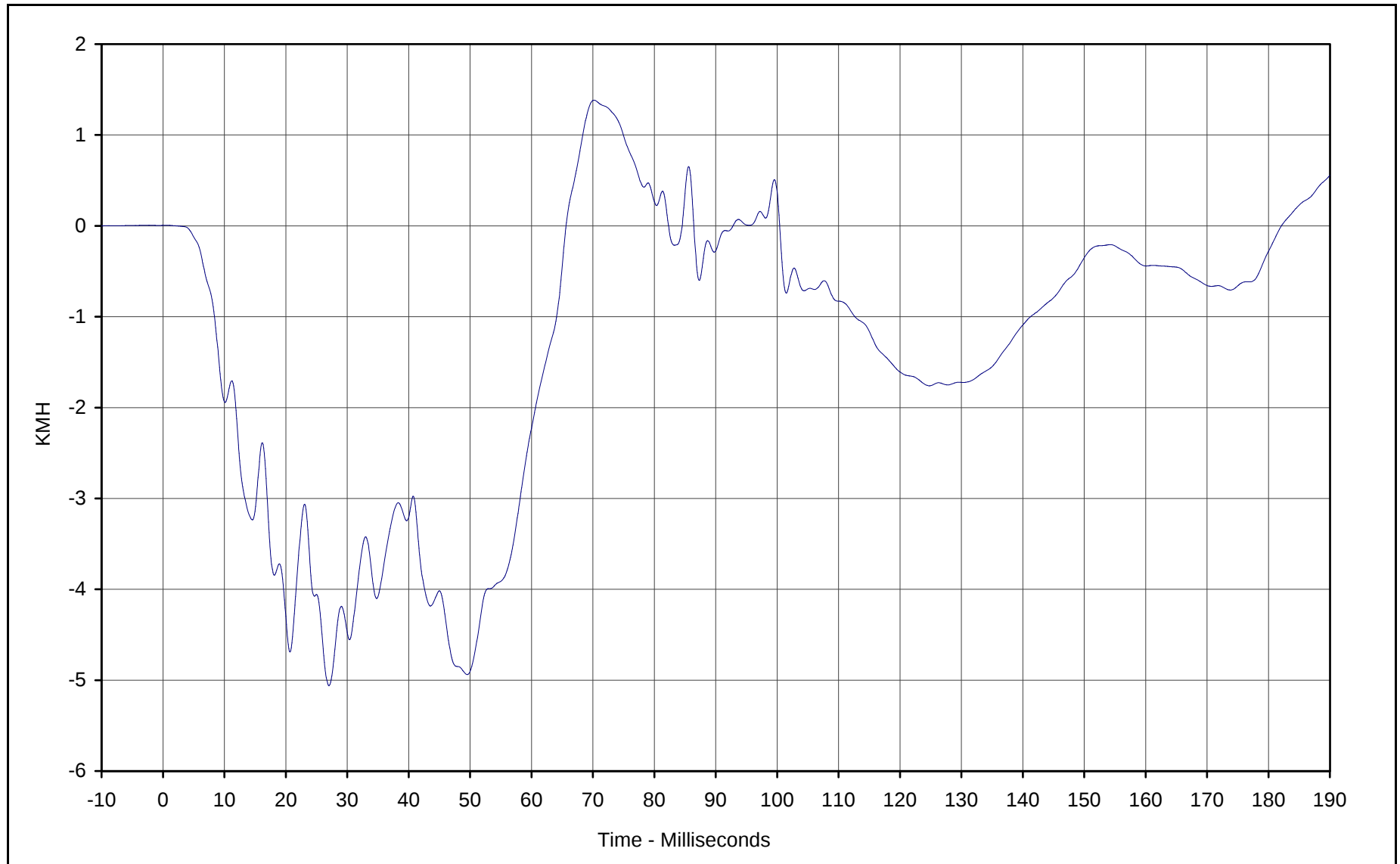




Curve Description: Vehicle CG Z
Maximum Value: 13.6 at 65.2 Milliseconds
Minimum Value: -10.9 at 8.8 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-052

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

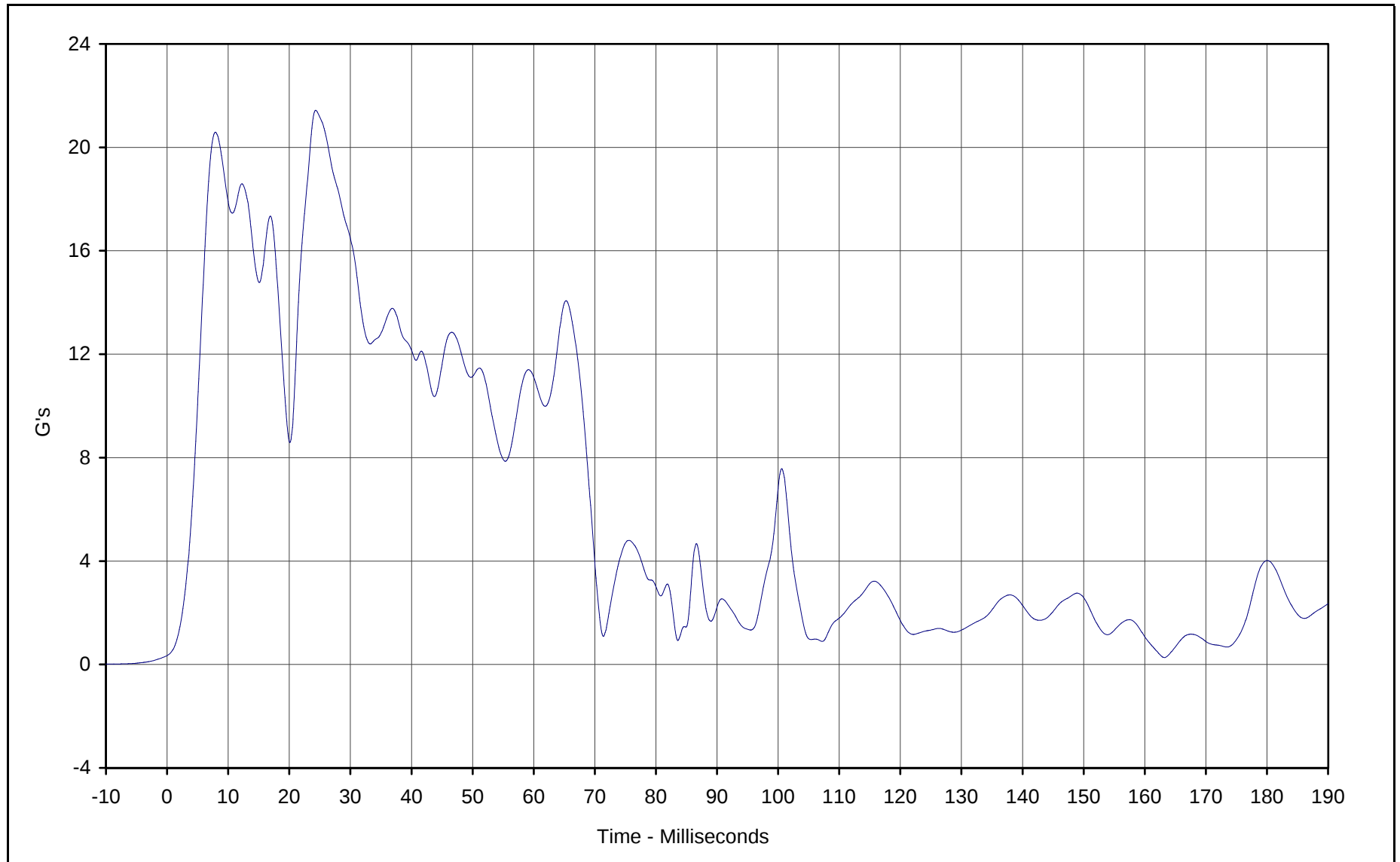




Curve Description: Vehicle CG Z Velocity
Maximum Value: 1.4 at 70.2 Milliseconds
Minimum Value: -5.1 at 27.0 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-052

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

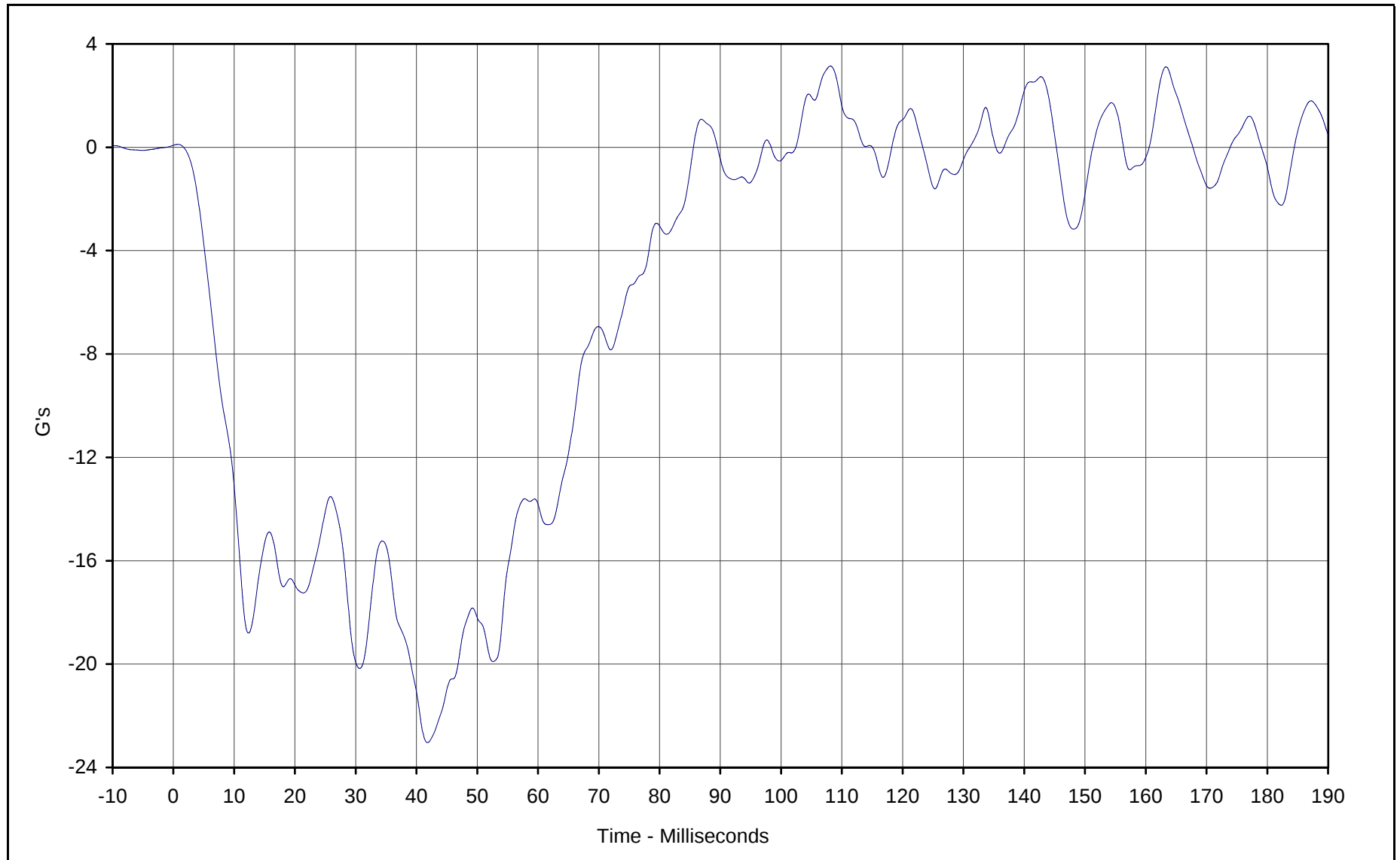




Curve Description: Vehicle CG Resultant
Maximum Value: 21.4 at 24.3 Milliseconds
Minimum Value: 0.3 at 163.2 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: RES-050

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

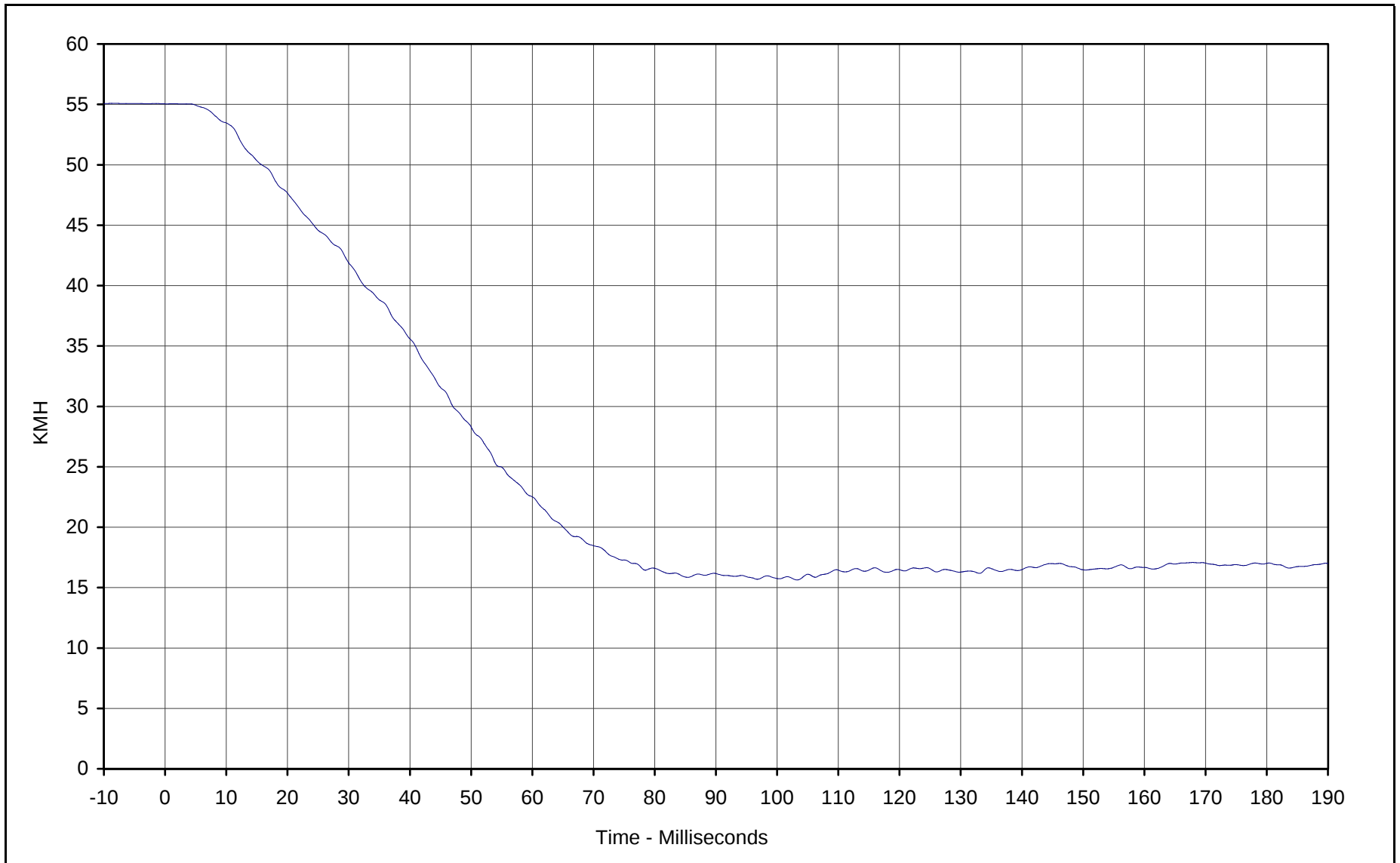




Curve Description: MDB CG X
Maximum Value: 3.1 at 108.1 Milliseconds
Minimum Value: -23.0 at 41.8 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-053

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

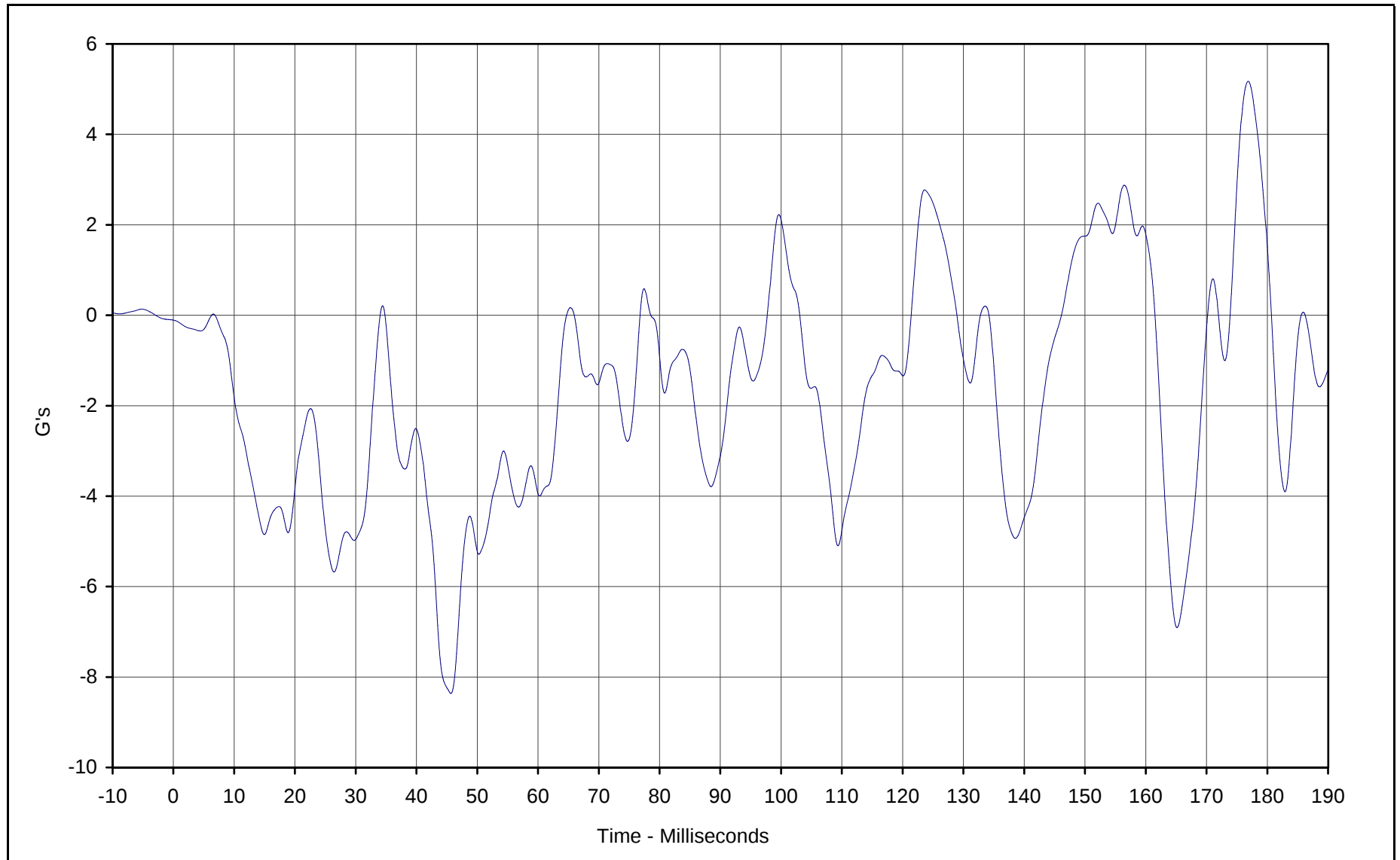




Curve Description: MDB CG X Velocity
Maximum Value: 55.1 at 1.5 Milliseconds
Minimum Value: 15.6 at 103.3 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-053

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

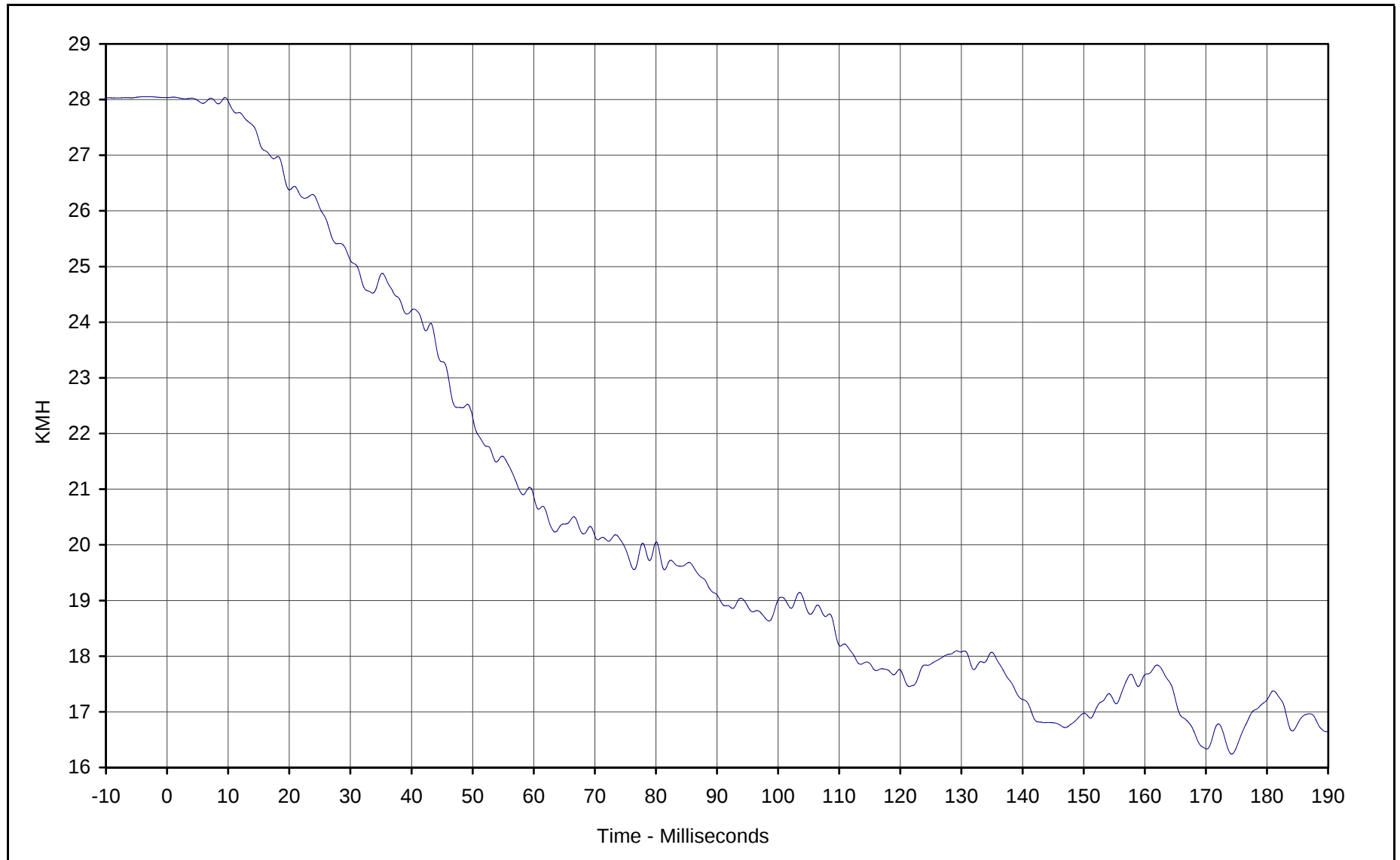




Curve Description: MDB CG Y
Maximum Value: 5.2 at 176.9 Milliseconds
Minimum Value: -8.4 at 45.7 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-054

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

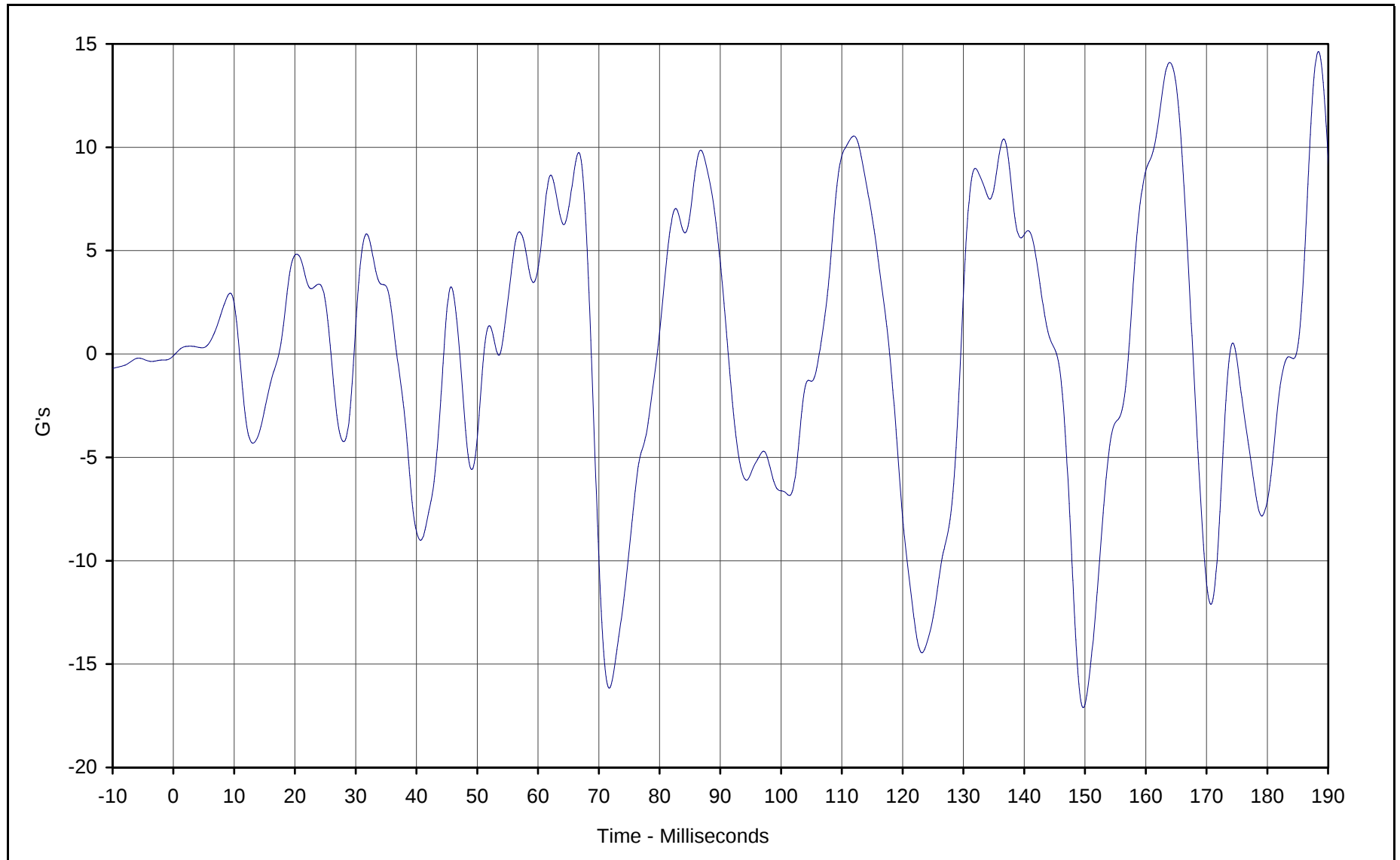




Curve Description: MDB CG Y Velocity
Maximum Value: 28.0 at 1.0 Milliseconds
Minimum Value: 16.2 at 174.2 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-054

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

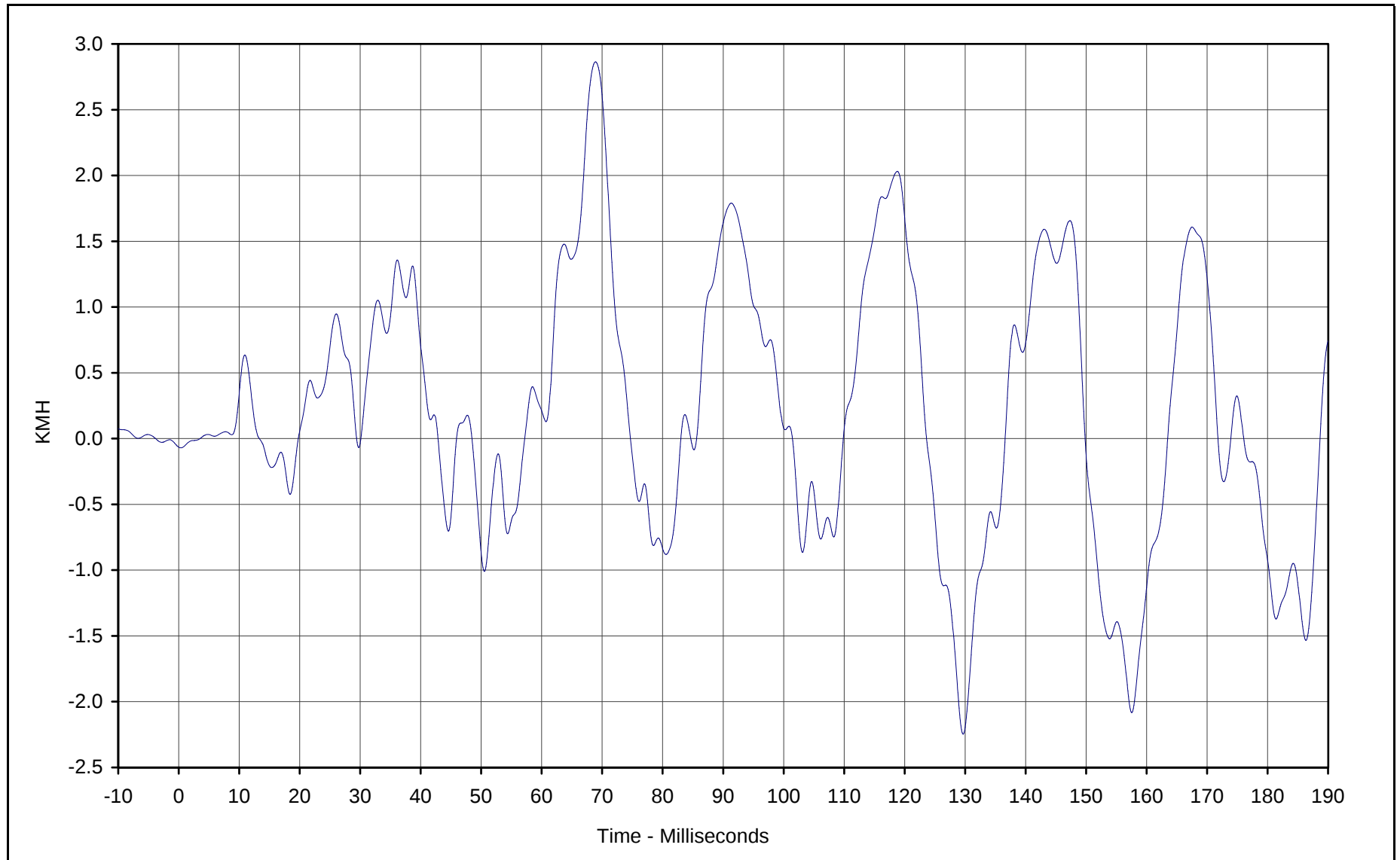




Curve Description: MDB CG Z
Maximum Value: 14.6 at 188.4 Milliseconds
Minimum Value: -17.1 at 149.7 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-055

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

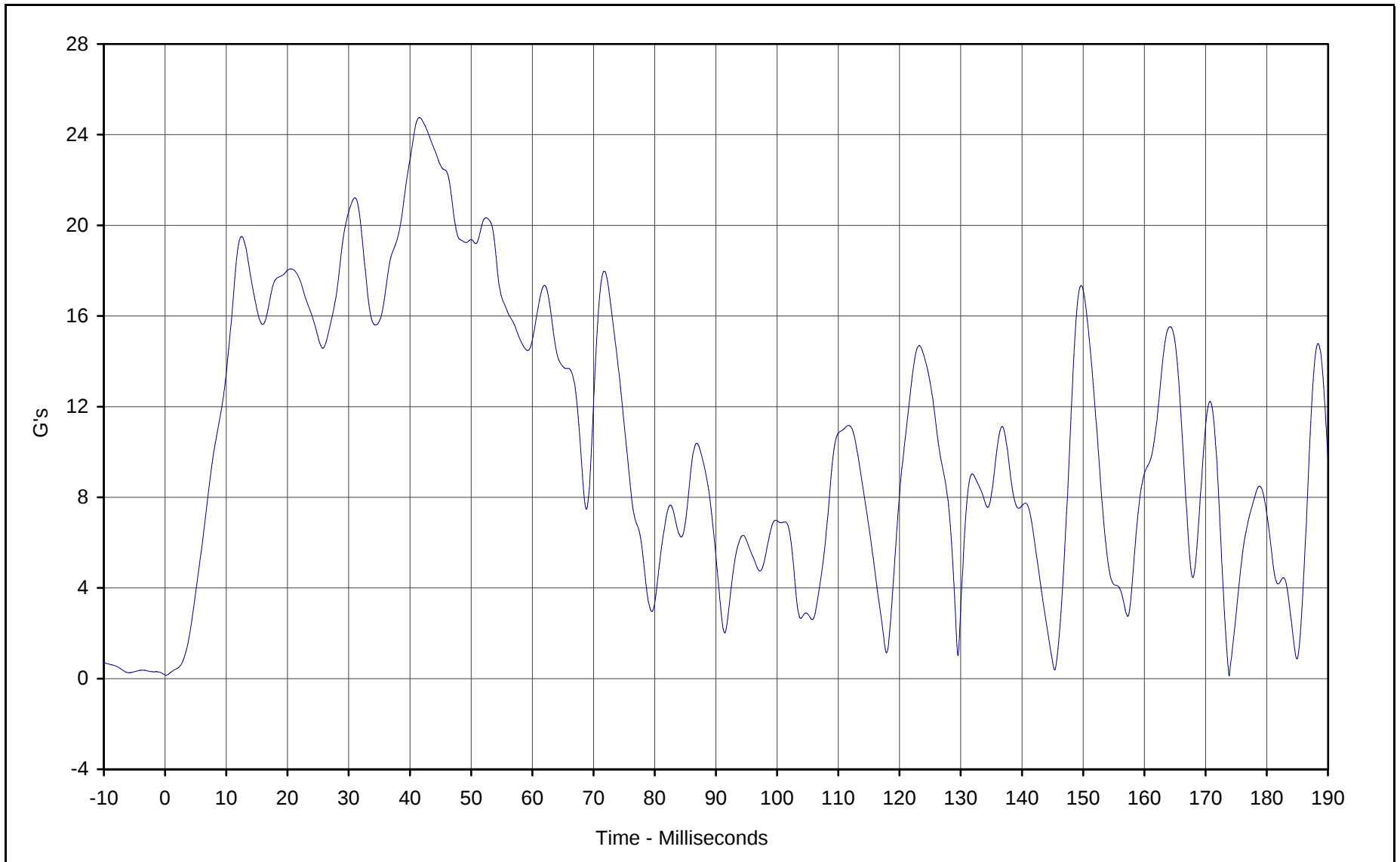




Curve Description: MDB CG Z Velocity
Maximum Value: 2.9 at 68.9 Milliseconds
Minimum Value: -2.2 at 129.7 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-055

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

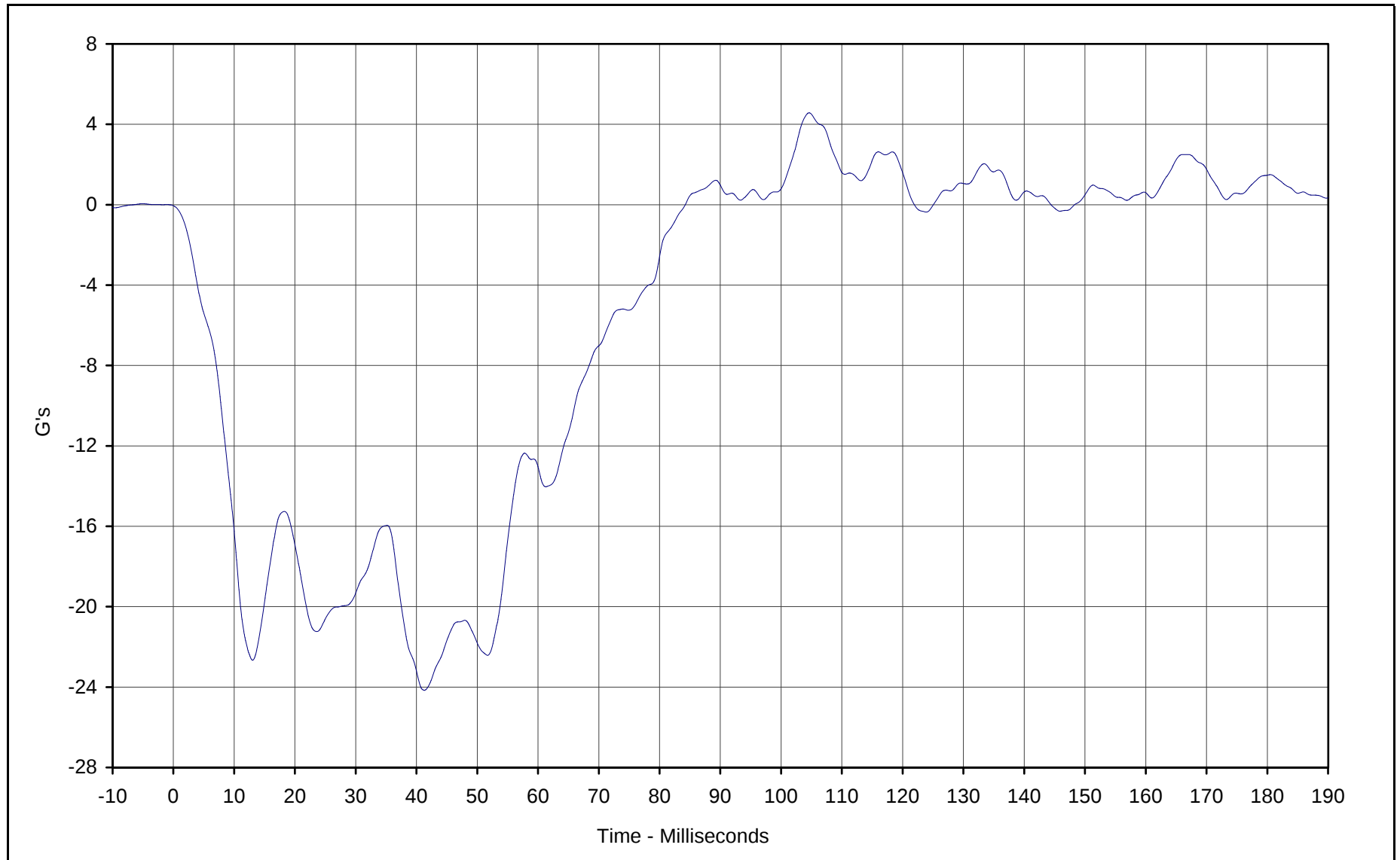




Curve Description: CG Resultant
Maximum Value: 24.8 at 41.6 Milliseconds
Minimum Value: 0.1 at 173.9 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: RES-053

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

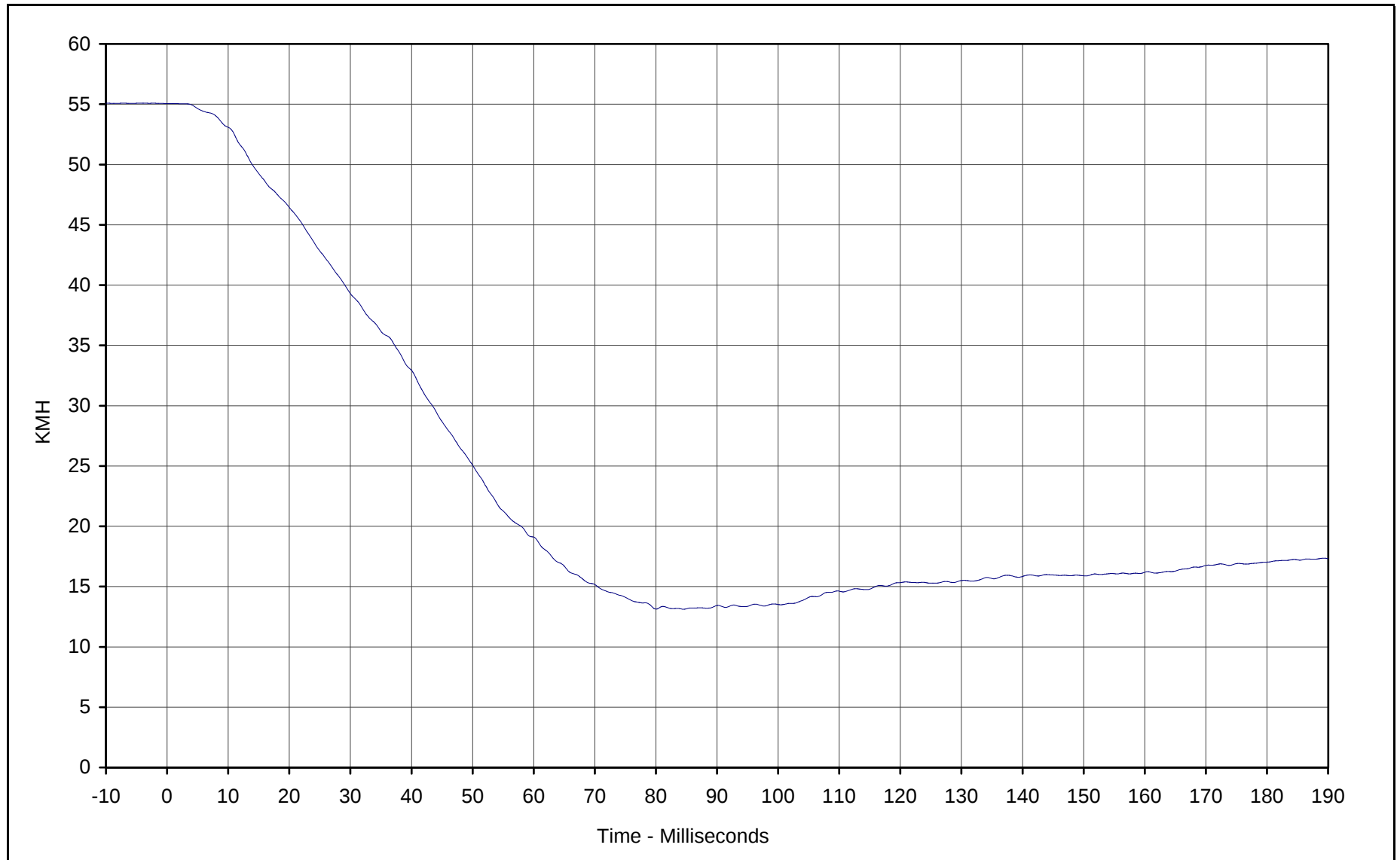




Curve Description: MDB Rear X
Maximum Value: 4.6 at 104.6 Milliseconds
Minimum Value: -24.2 at 41.3 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-056

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

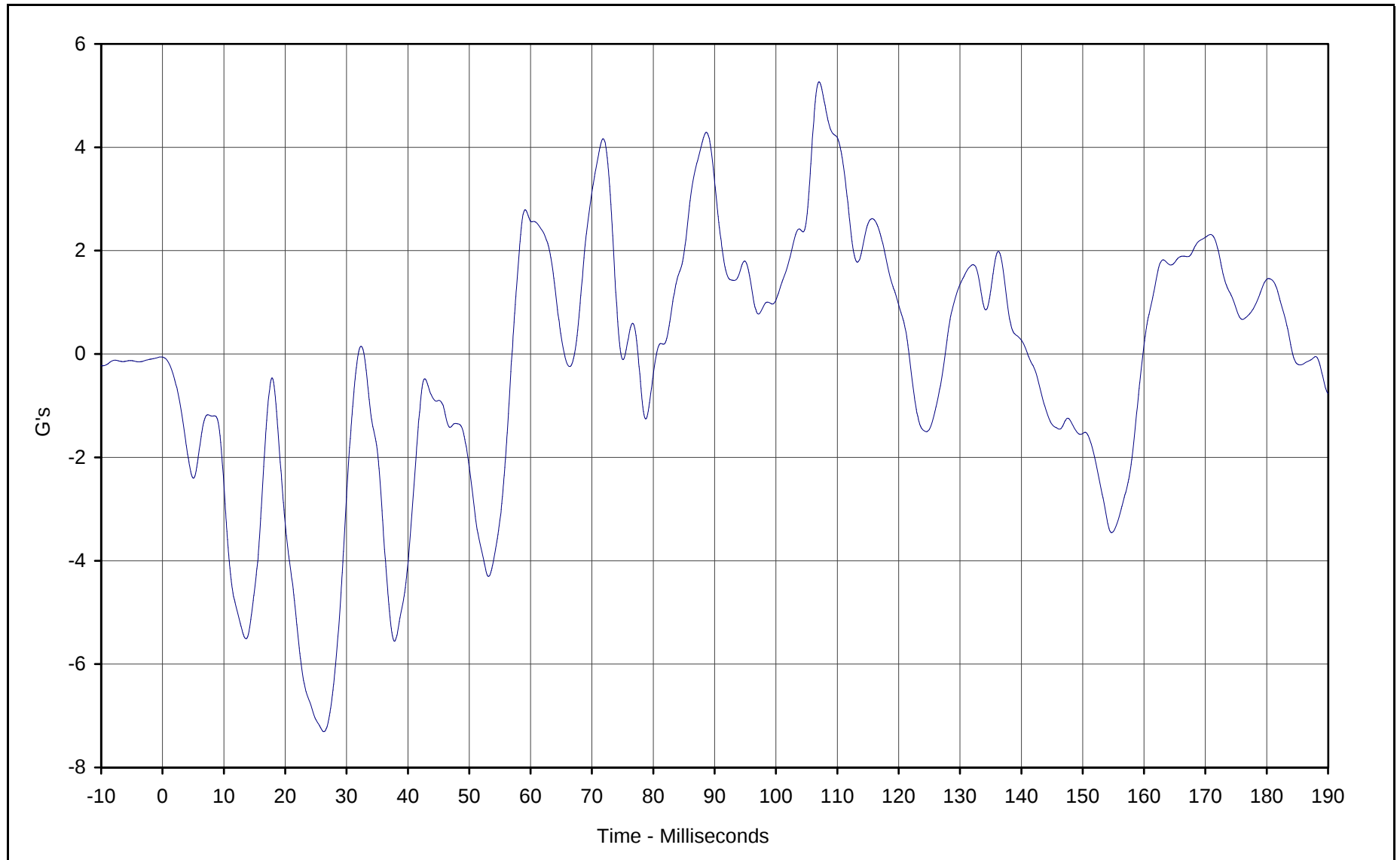




Curve Description: MDB Rear X Velocity
Maximum Value: 55.1 at 0.4 Milliseconds
Minimum Value: 13.1 at 84.5 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-056

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

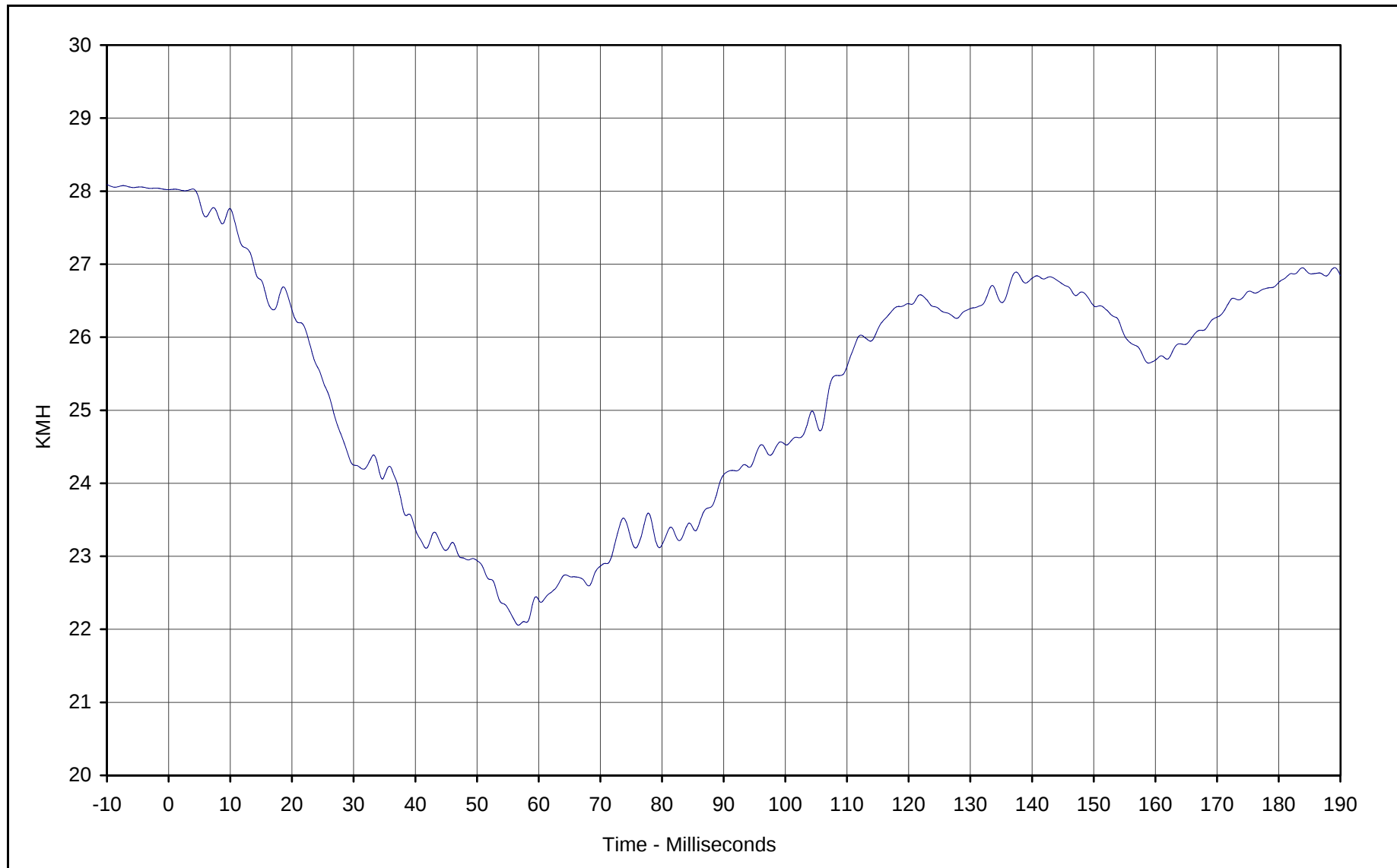




Curve Description: MDB Rear Y
Maximum Value: 5.3 at 107.0 Milliseconds
Minimum Value: -7.3 at 26.3 Milliseconds
SAE Filter Class: 60
Date of Test: 02/01/01
Curve Number: FIL-057

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

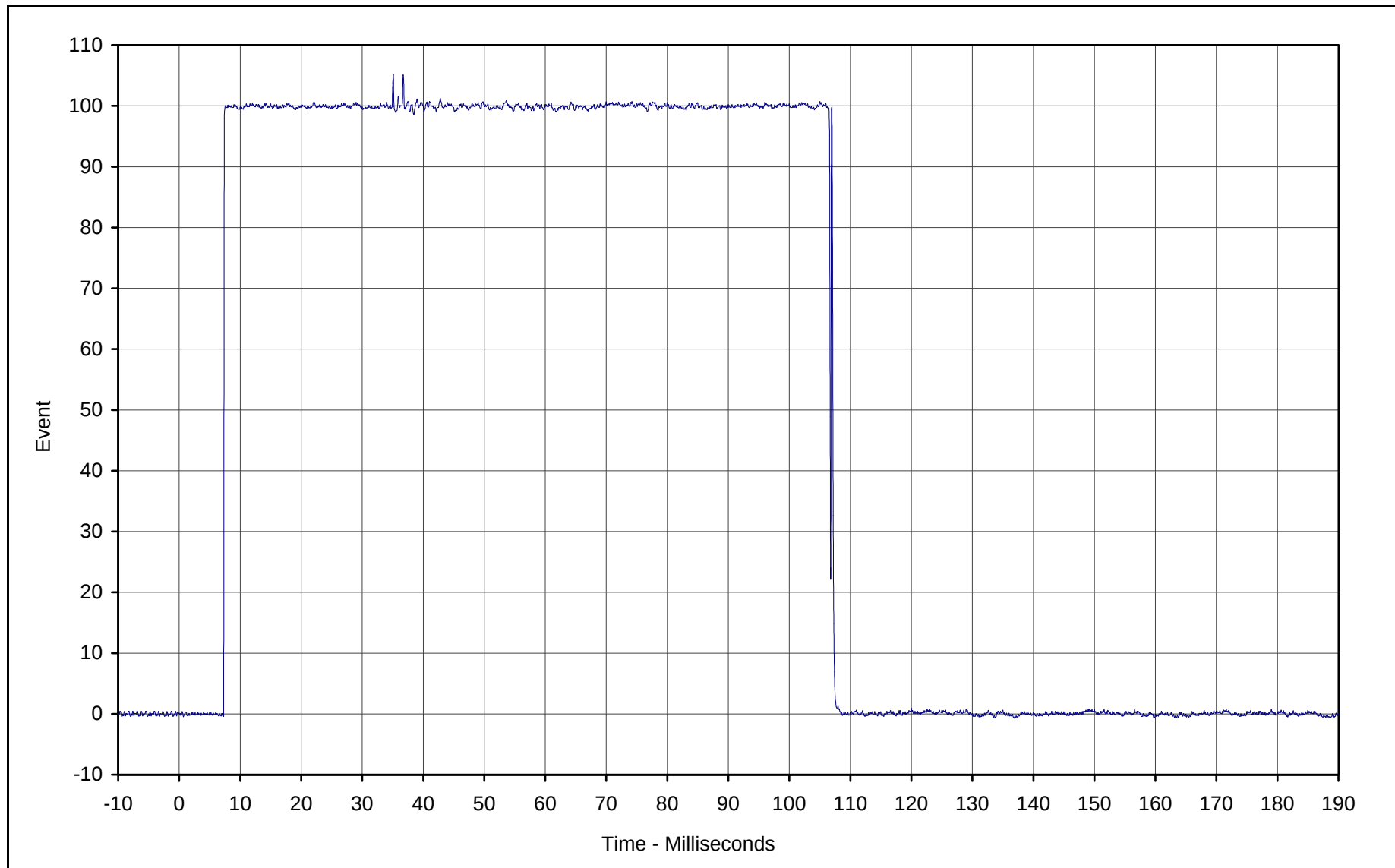




Curve Description: MDB Rear Y Velocity
Maximum Value: 28.0 at 3.9 Milliseconds
Minimum Value: 22.1 at 56.7 Milliseconds
SAE Filter Class: 180
Date of Test: 02/01/01
Curve Number: IN1-057

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

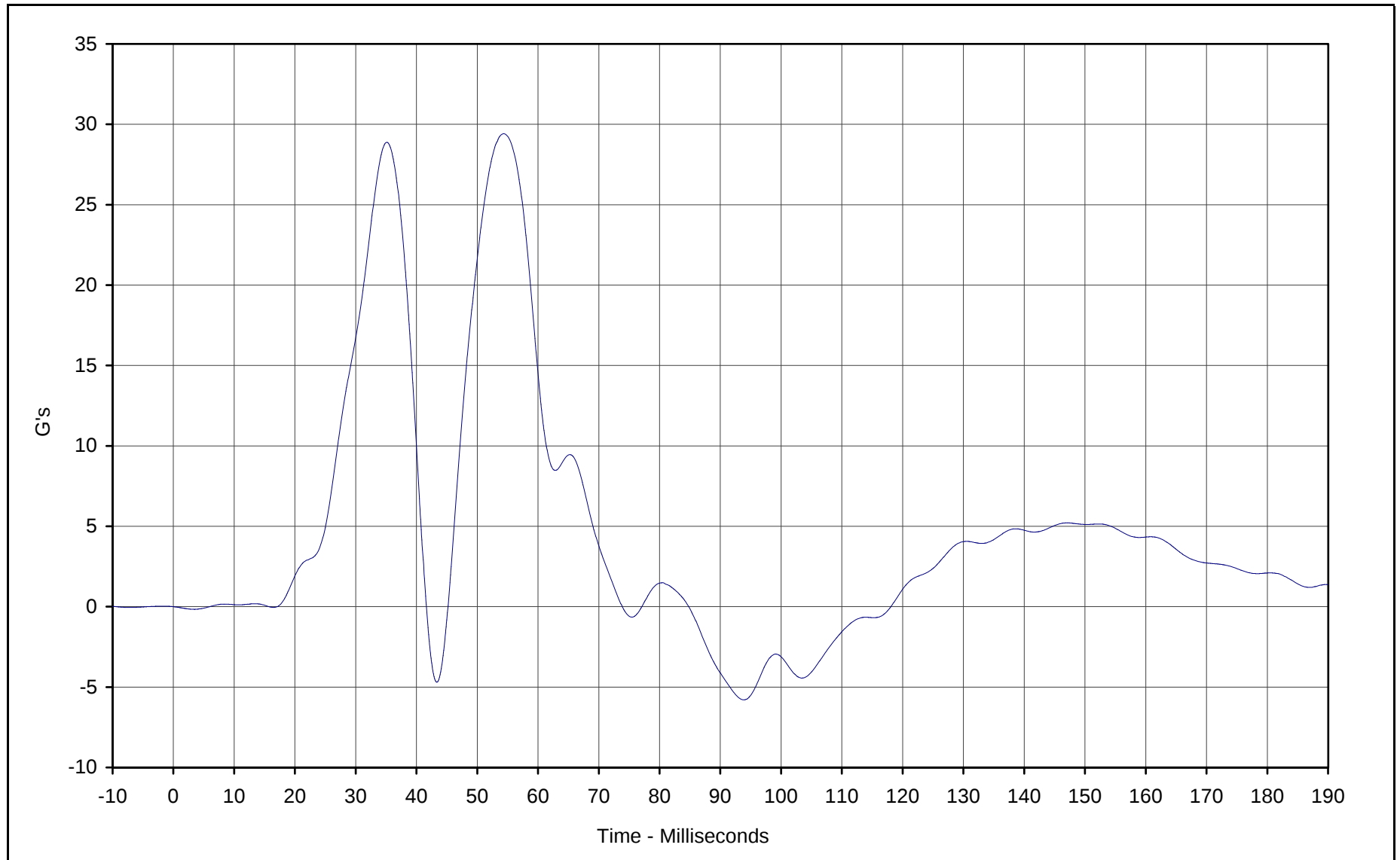




Curve Description: MDB Right Bumper Contact
Maximum Value: 105.0 at 35.1 Milliseconds
Crossing Point: 50% at 7.4 Milliseconds
SAE Filter Class: 1000
Date of Test: 02/01/01
Curve Number: FIL-058

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

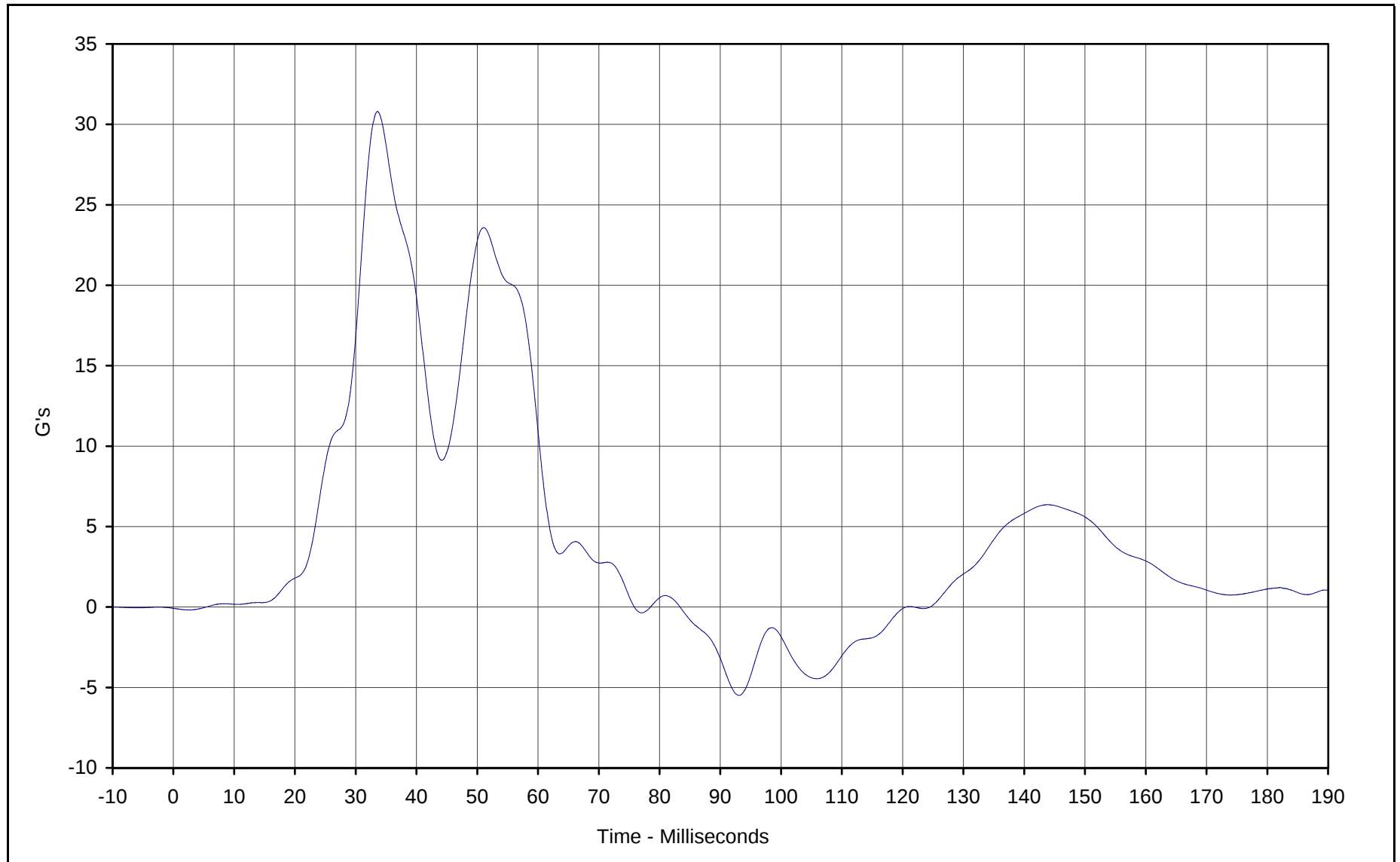




Curve Description: Driver Upper Rib Primary Y
Maximum Value: 29.4 at 54.4 Milliseconds
Minimum Value: -5.8 at 93.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-004

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

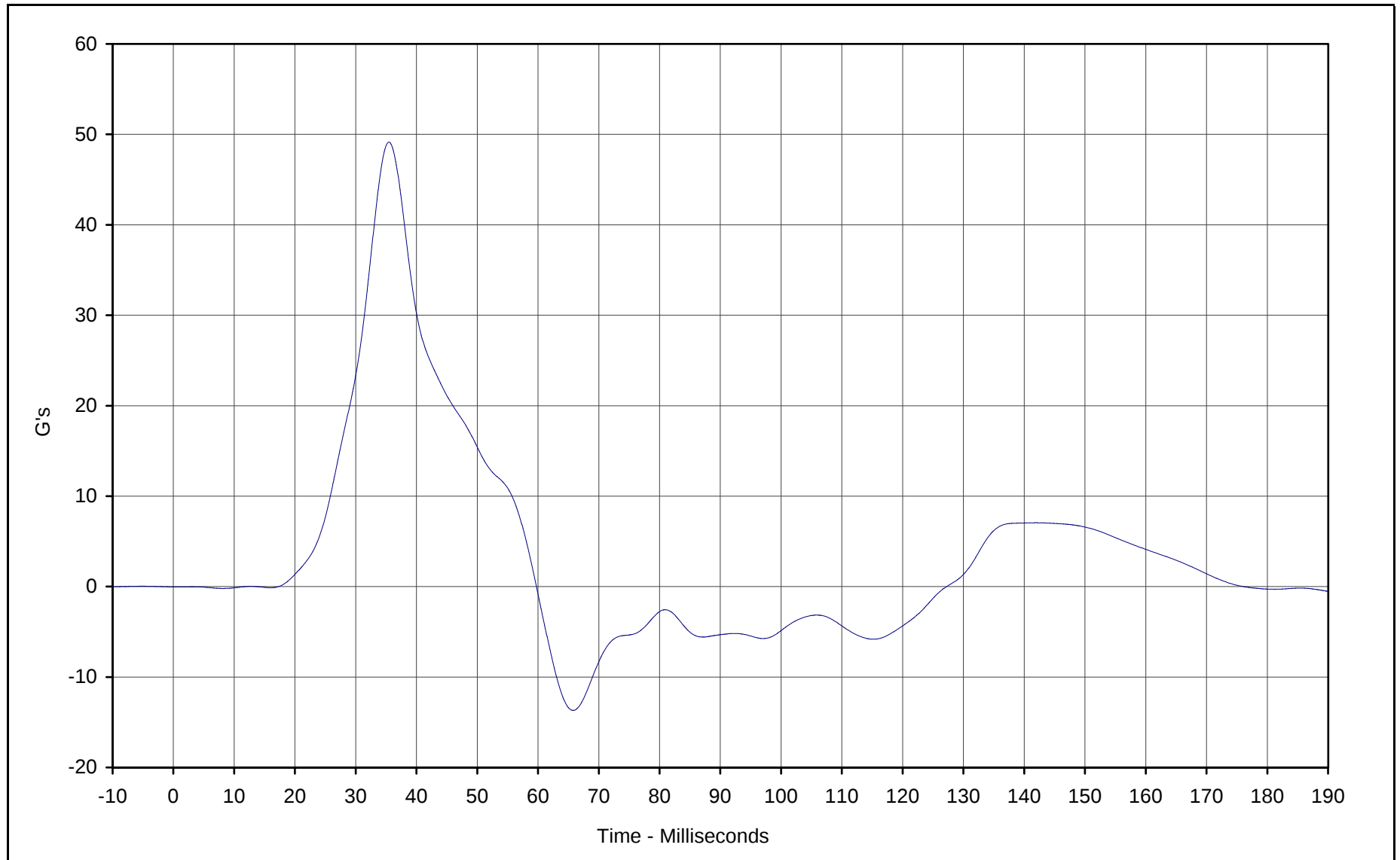




Curve Description: Driver Lower Rib Primary Y
Maximum Value: 30.8 at 33.6 Milliseconds
Minimum Value: -5.5 at 93.1 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-005

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

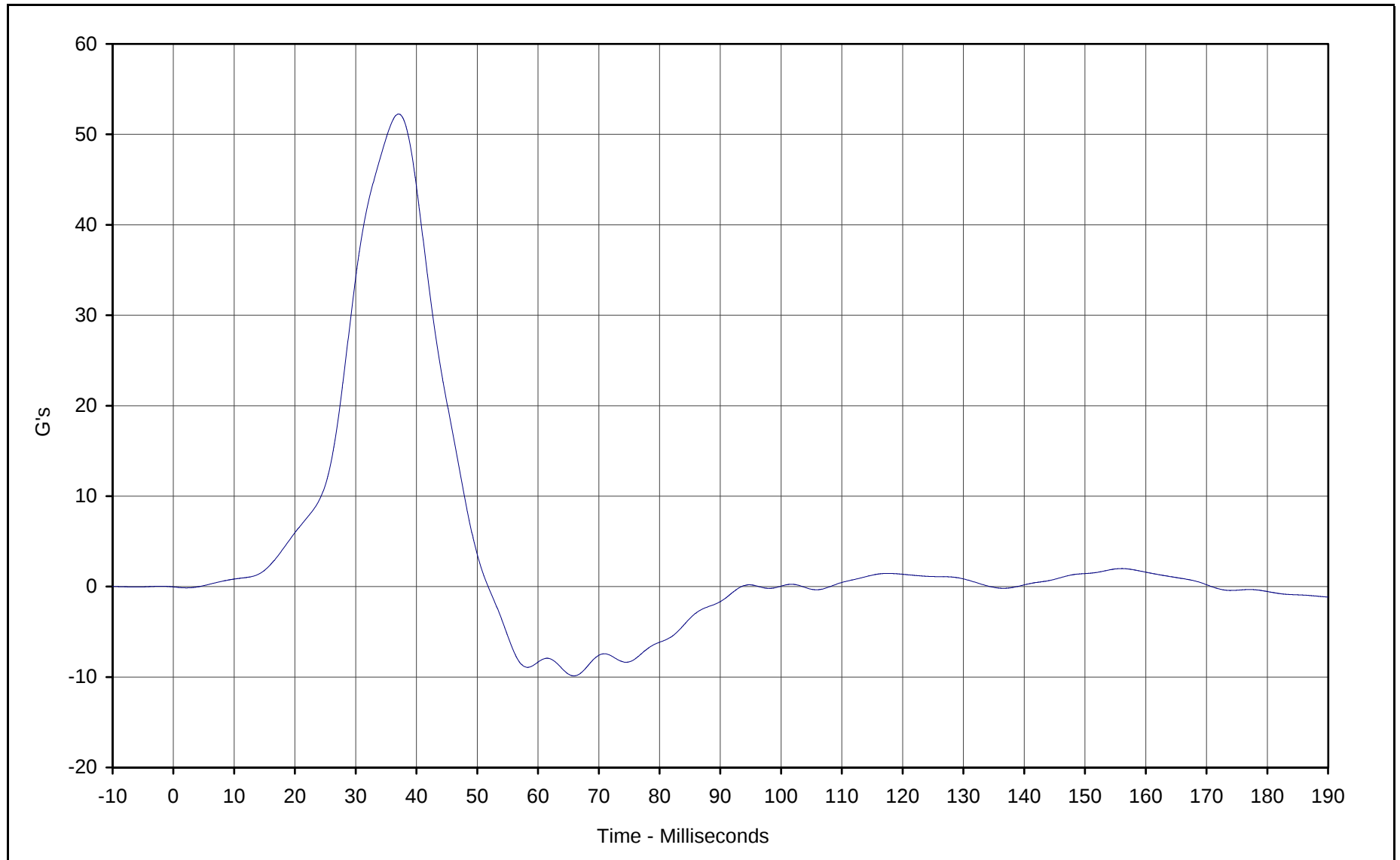




Curve Description: Driver Lower Spine Primary Y
Maximum Value: 49.1 at 35.5 Milliseconds
Minimum Value: -13.7 at 65.8 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-006

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

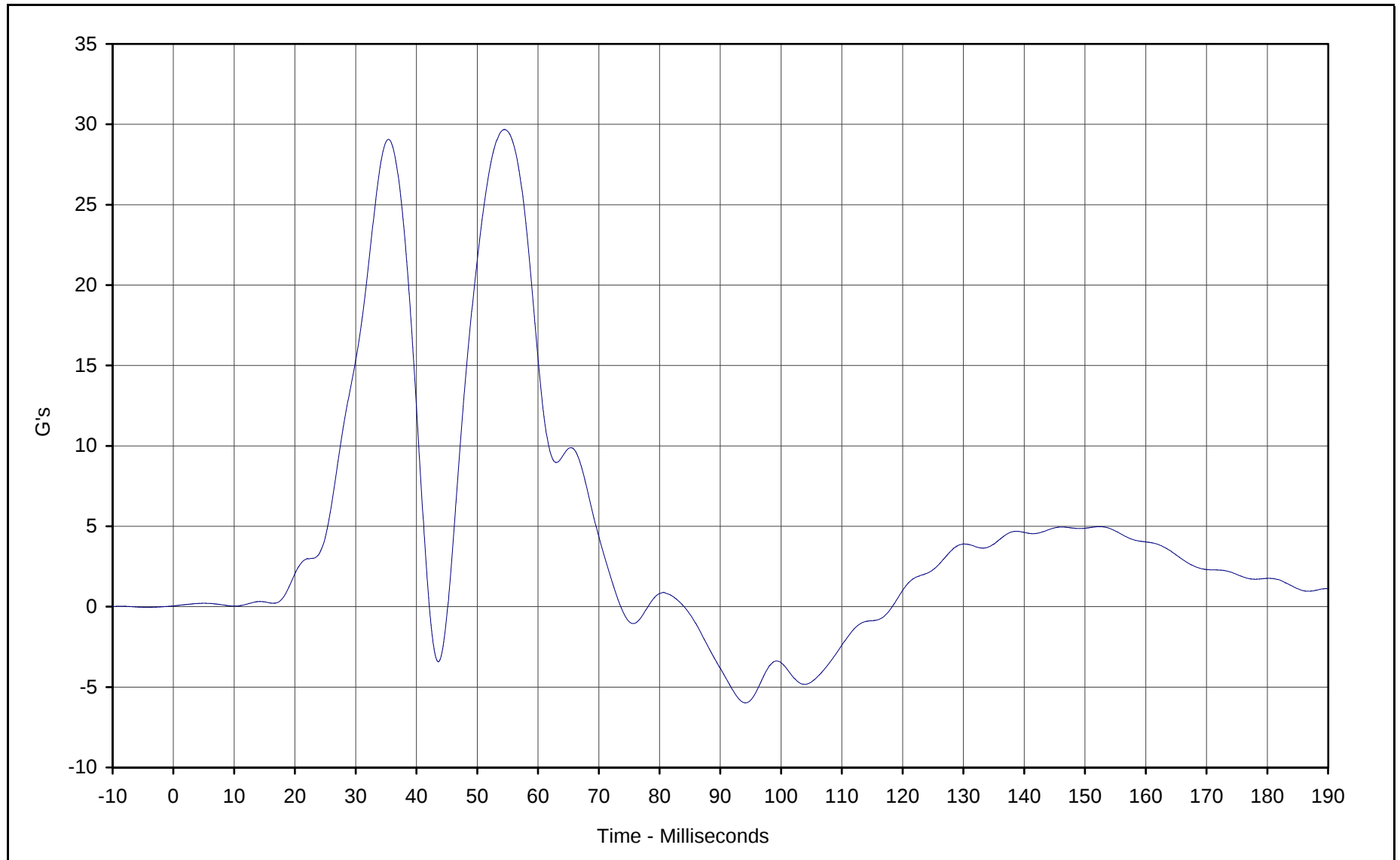




Curve Description: Driver Pelvis Primary Y
Maximum Value: 52.2 at 37.1 Milliseconds
Minimum Value: -9.9 at 65.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-007

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

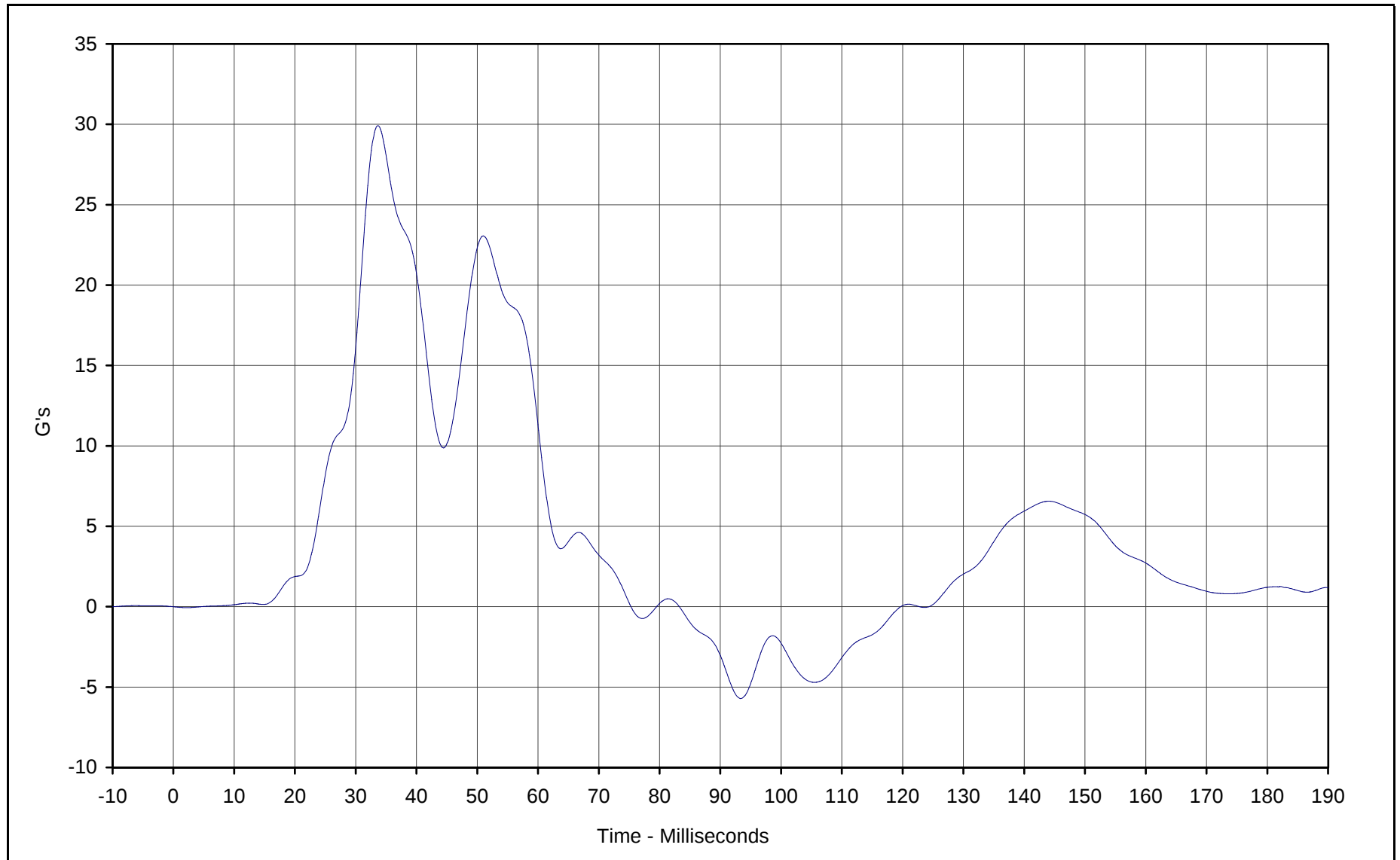




Curve Description: Driver Upper Rib Redundant Y
Maximum Value: 29.7 at 54.5 Milliseconds
Minimum Value: -6.0 at 94.2 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-008

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

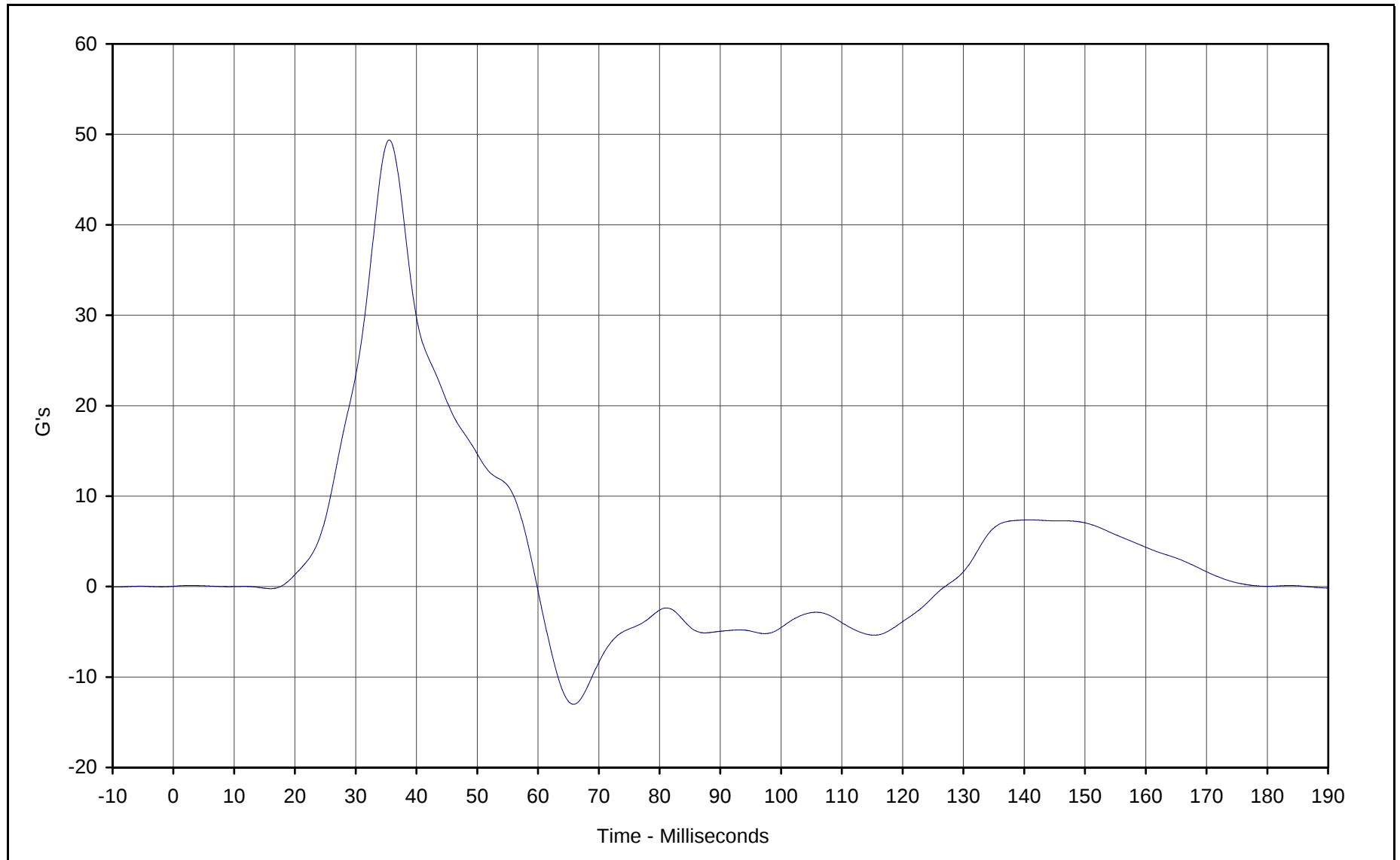




Curve Description: Driver Lower Rib Redundant Y
Maximum Value: 29.9 at 33.7 Milliseconds
Minimum Value: -5.7 at 93.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-009

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

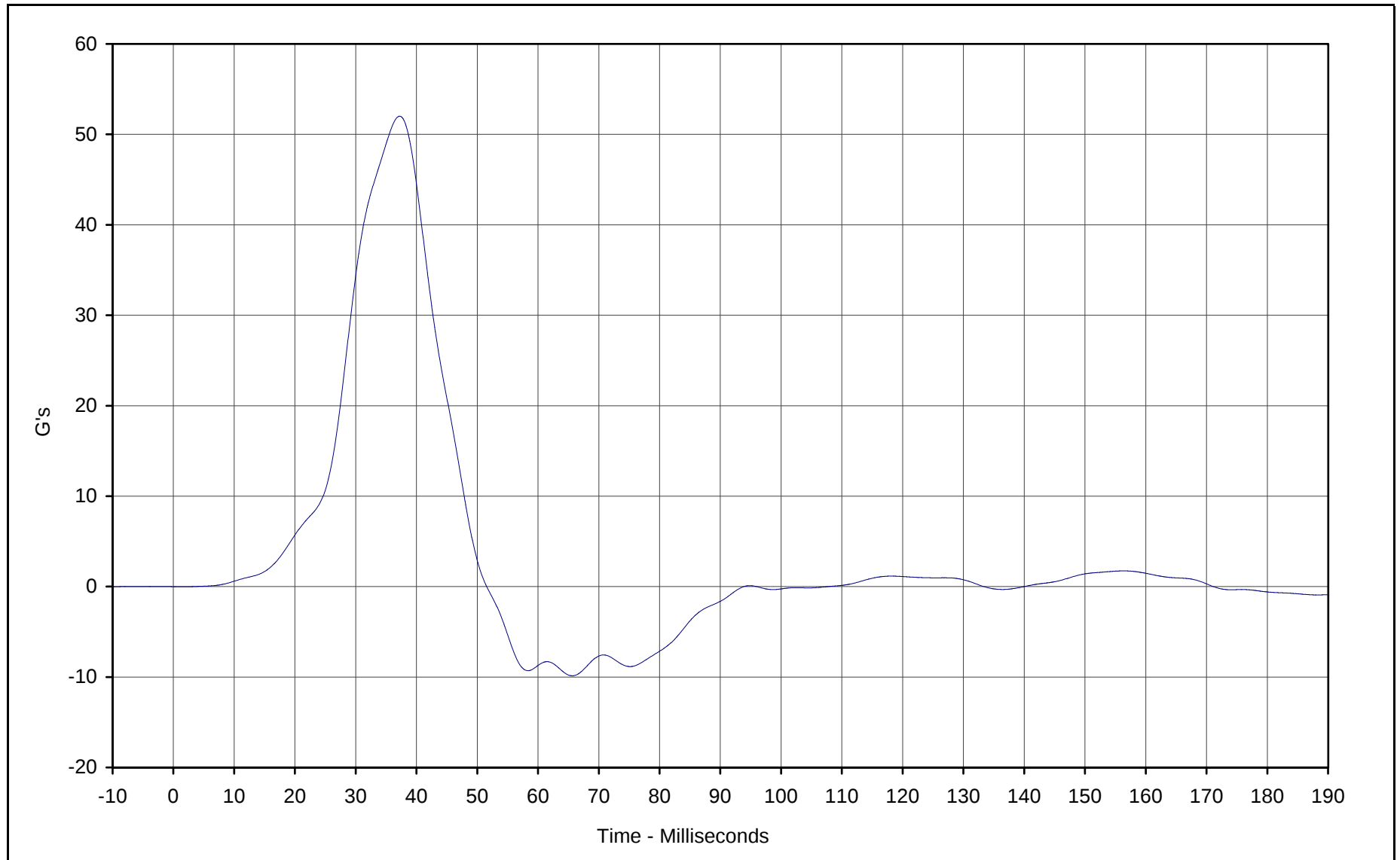




Curve Description: Driver Lower Spine Redundant Y
Maximum Value: 49.4 at 35.5 Milliseconds
Minimum Value: -13.0 at 65.8 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-010

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

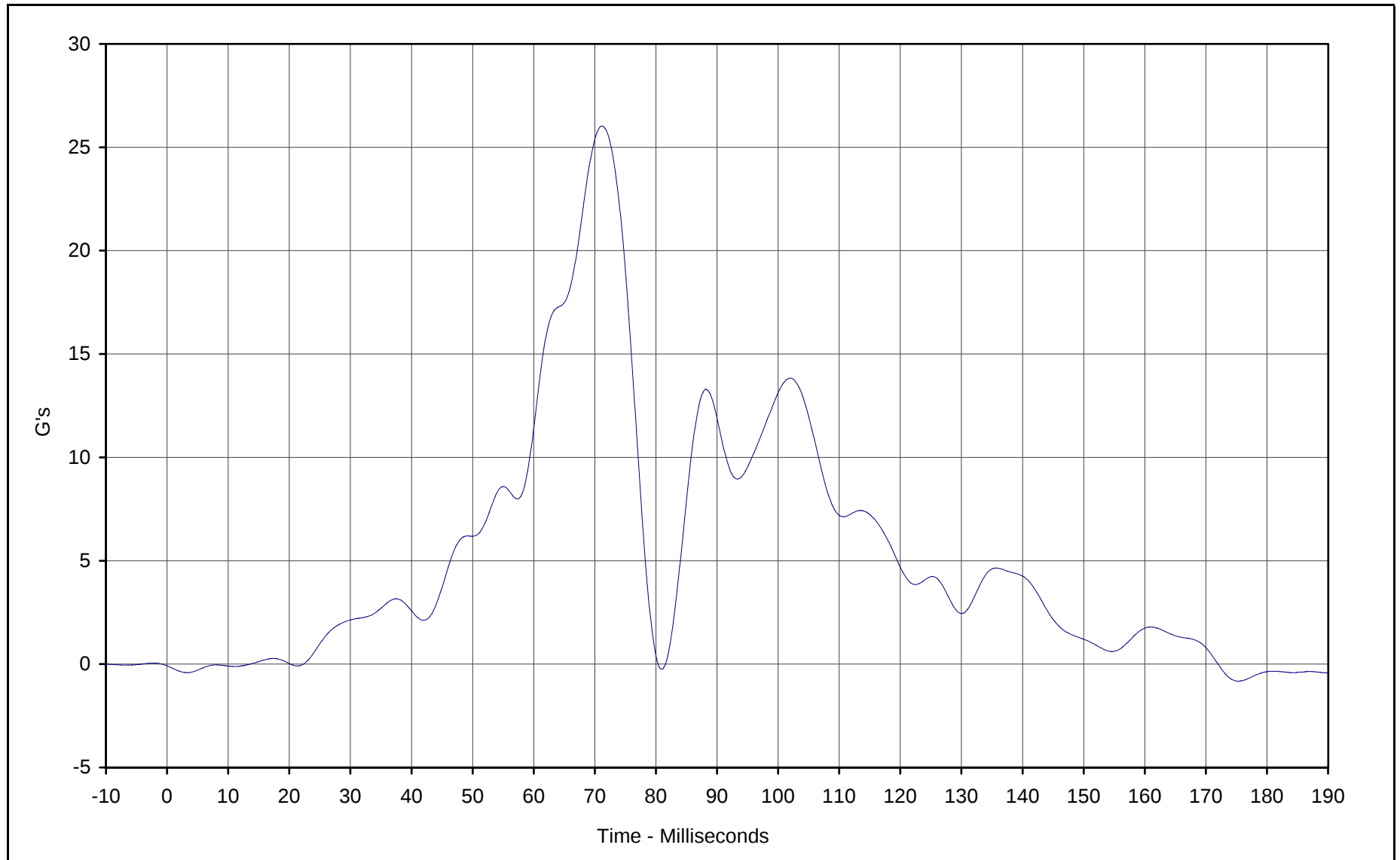




Curve Description: Driver Pelvis Redundant Y
Maximum Value: 52.0 at 37.2 Milliseconds
Minimum Value: -9.9 at 65.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-011

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

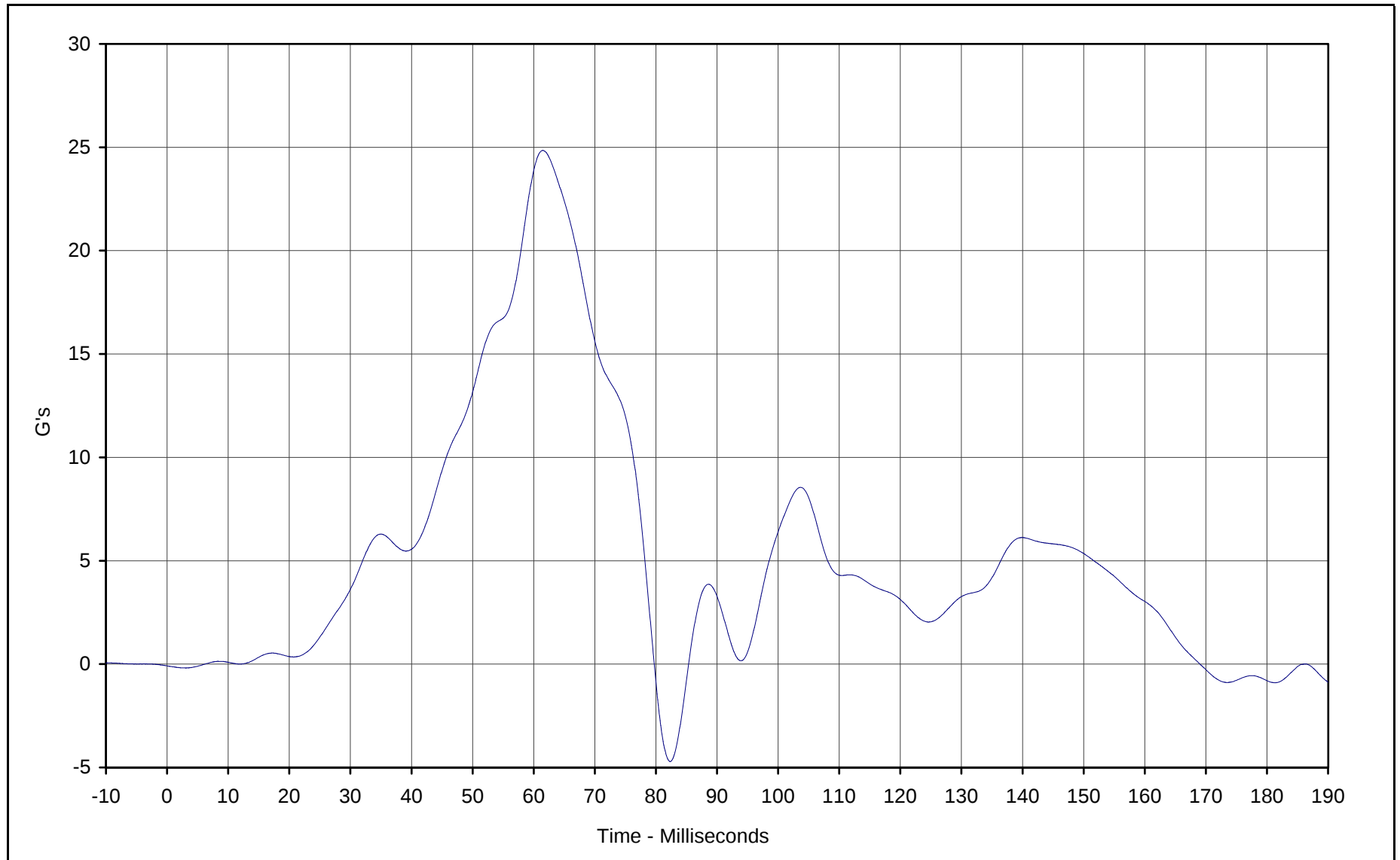




Curve Description: Pass. Upper Rib Primary Y
Maximum Value: 26.0 at 71.2 Milliseconds
Minimum Value: -0.8 at 175.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-017

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

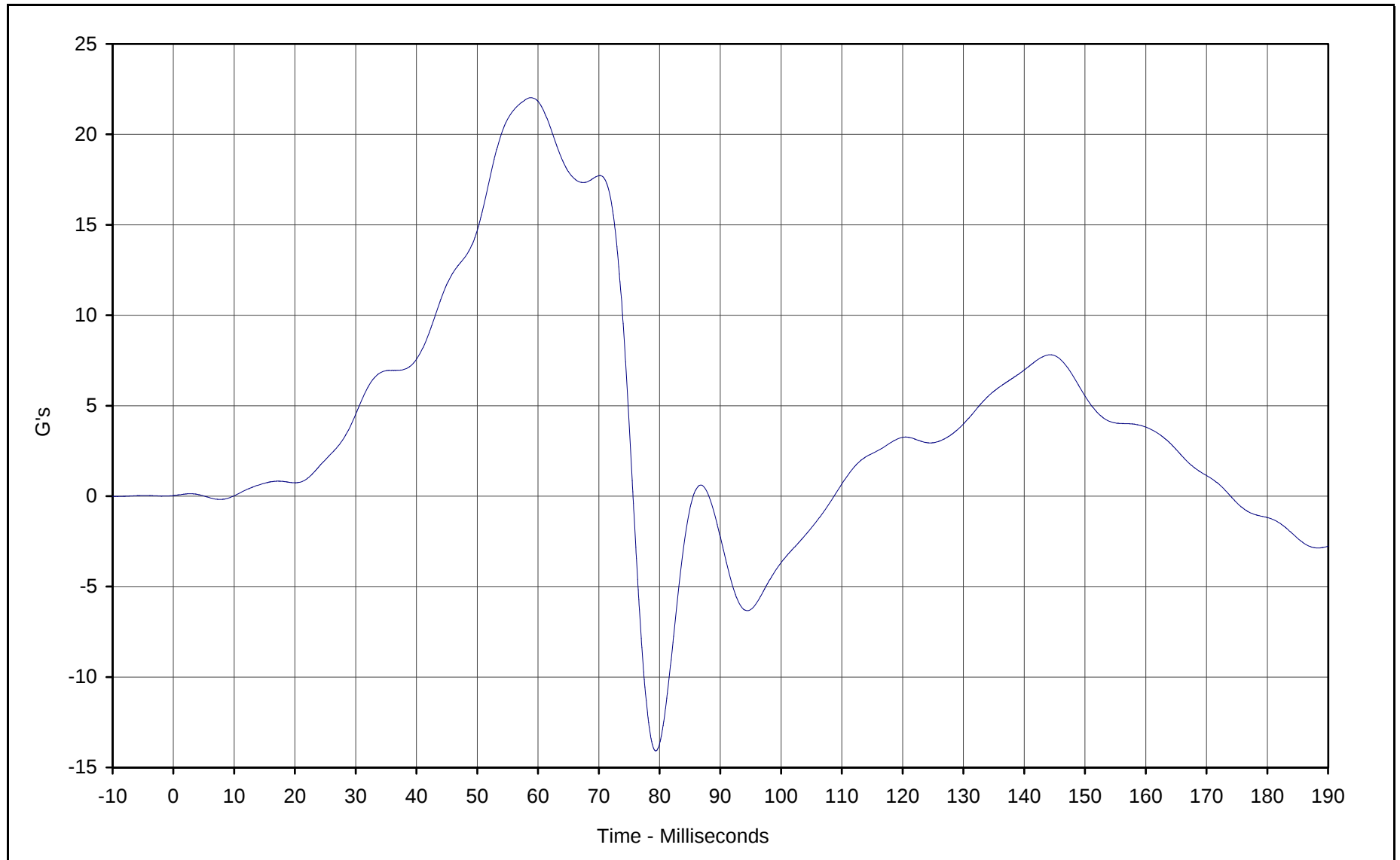




Curve Description: Pass. Lower Rib Primary Y
Maximum Value: 24.8 at 61.5 Milliseconds
Minimum Value: -4.7 at 82.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-018

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

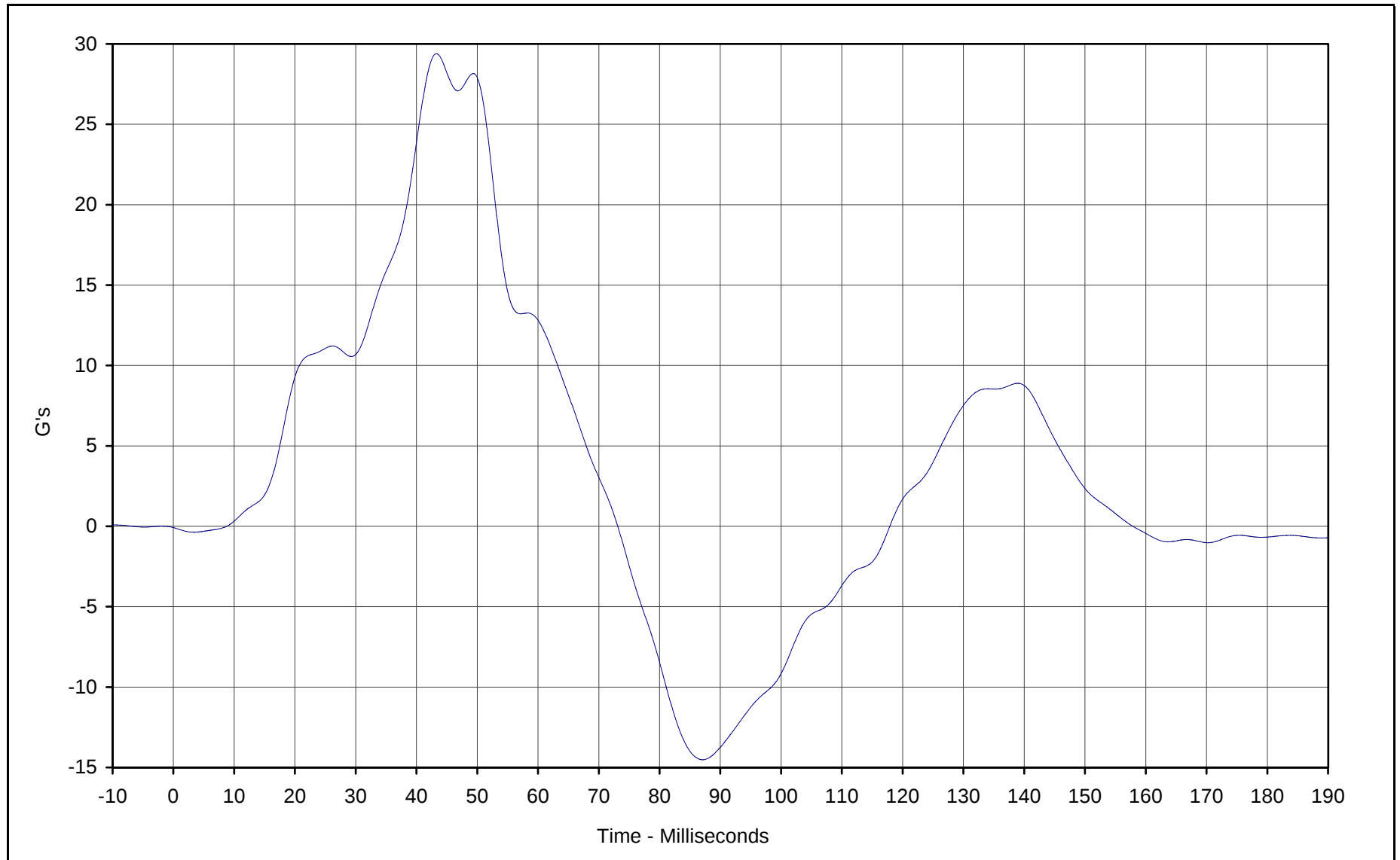




Curve Description: Pass. Lower Spine Primary Y
Maximum Value: 22.0 at 58.9 Milliseconds
Minimum Value: -14.1 at 79.4 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-019

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

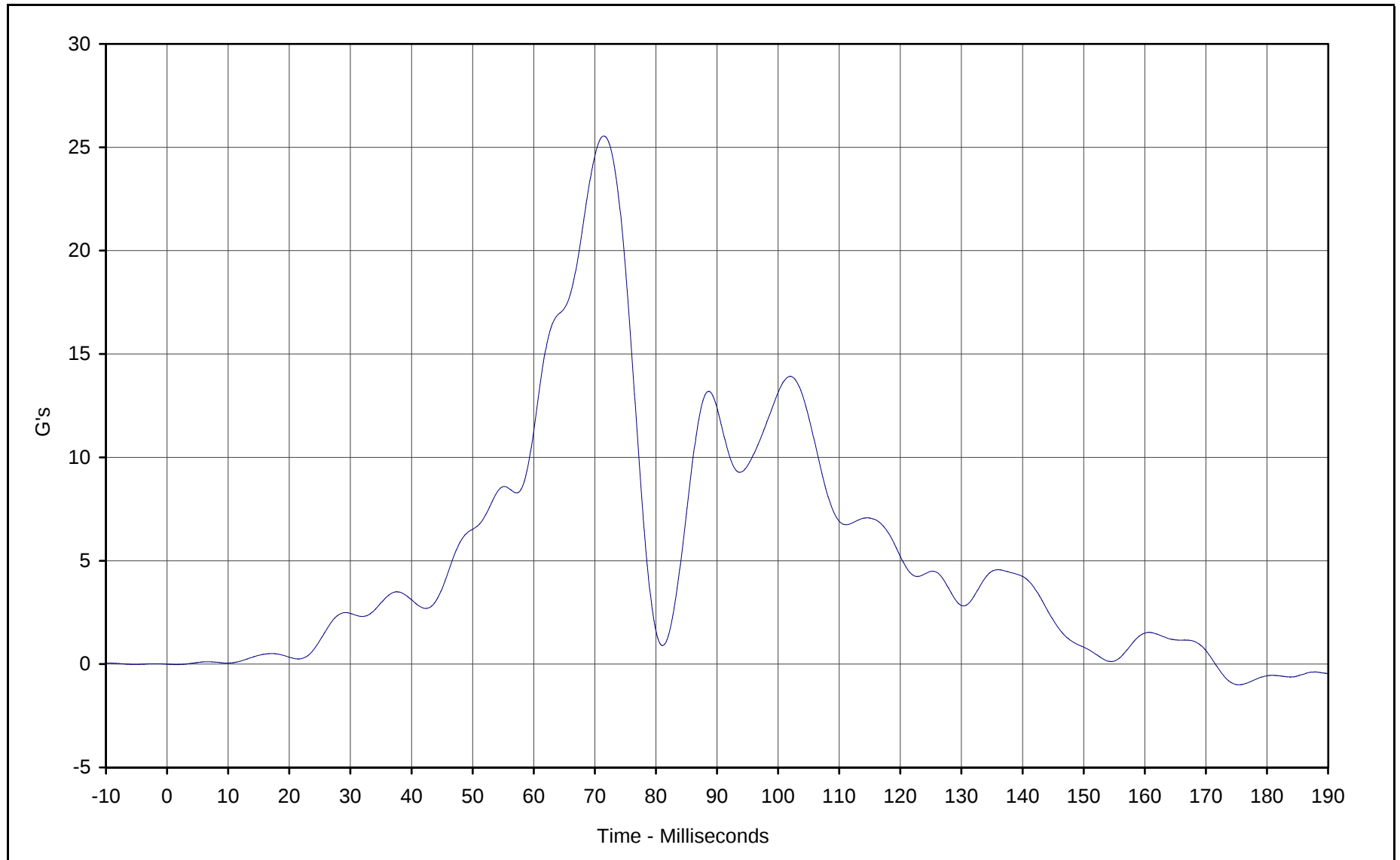




Curve Description: Pass. Pelvis Primary Y
Maximum Value: 29.4 at 43.3 Milliseconds
Minimum Value: -14.5 at 87.1 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-020

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

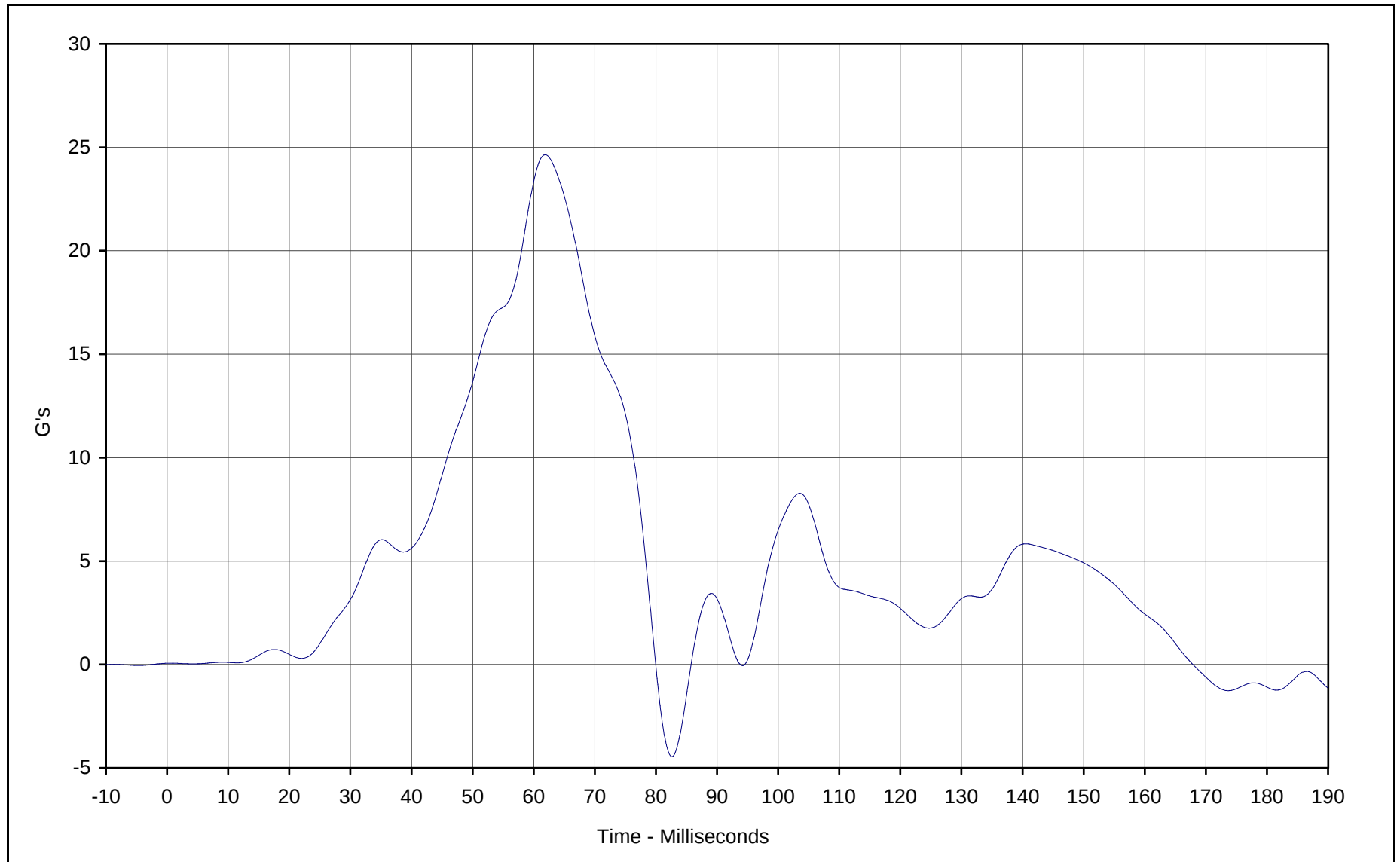




Curve Description: Pass. Upper Rib Redundant Y
Maximum Value: 25.5 at 71.5 Milliseconds
Minimum Value: -1.0 at 175.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-021

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

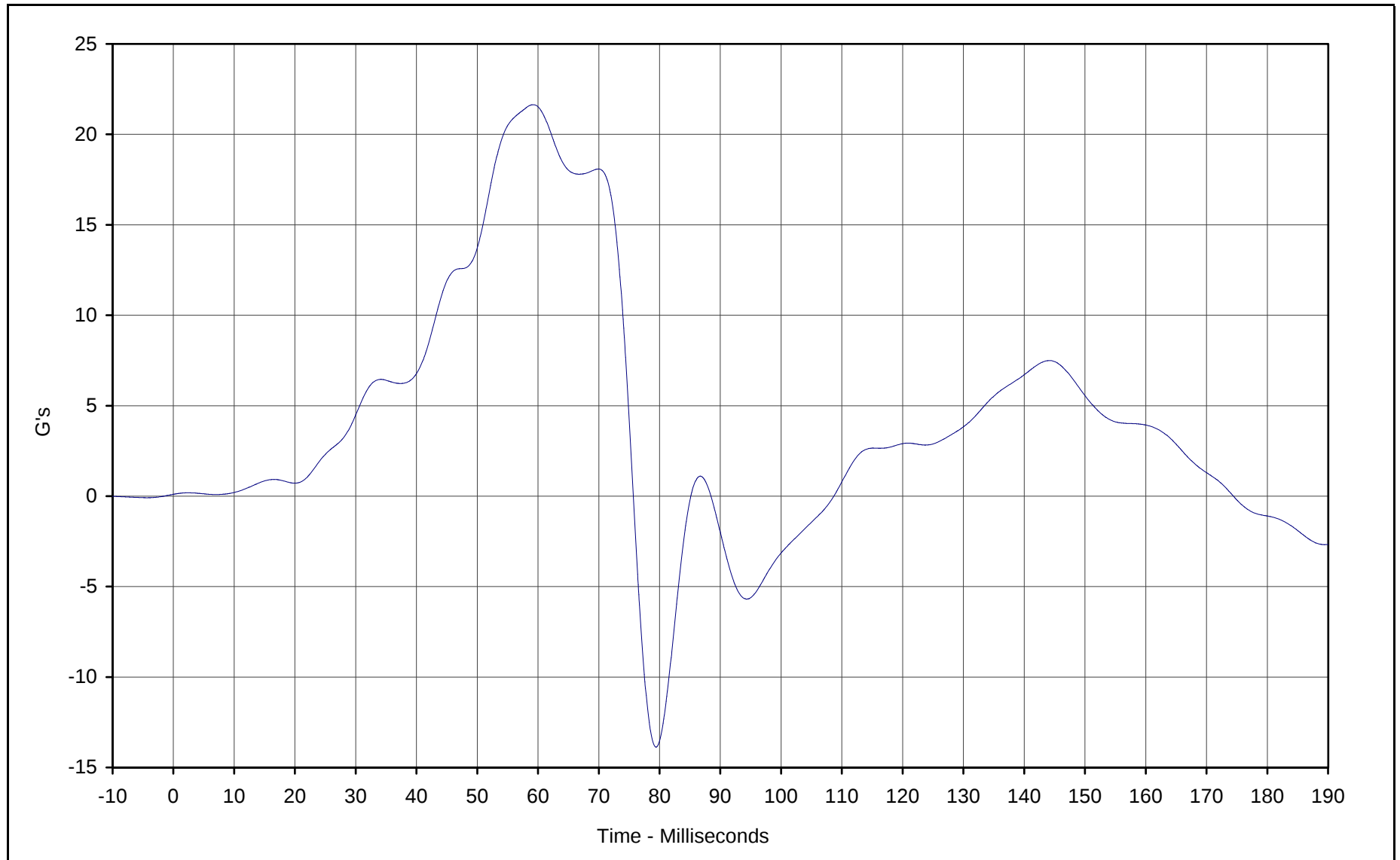




Curve Description: Pass. Lower Rib Redundant Y
Maximum Value: 24.6 at 61.9 Milliseconds
Minimum Value: -4.5 at 82.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-022

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV

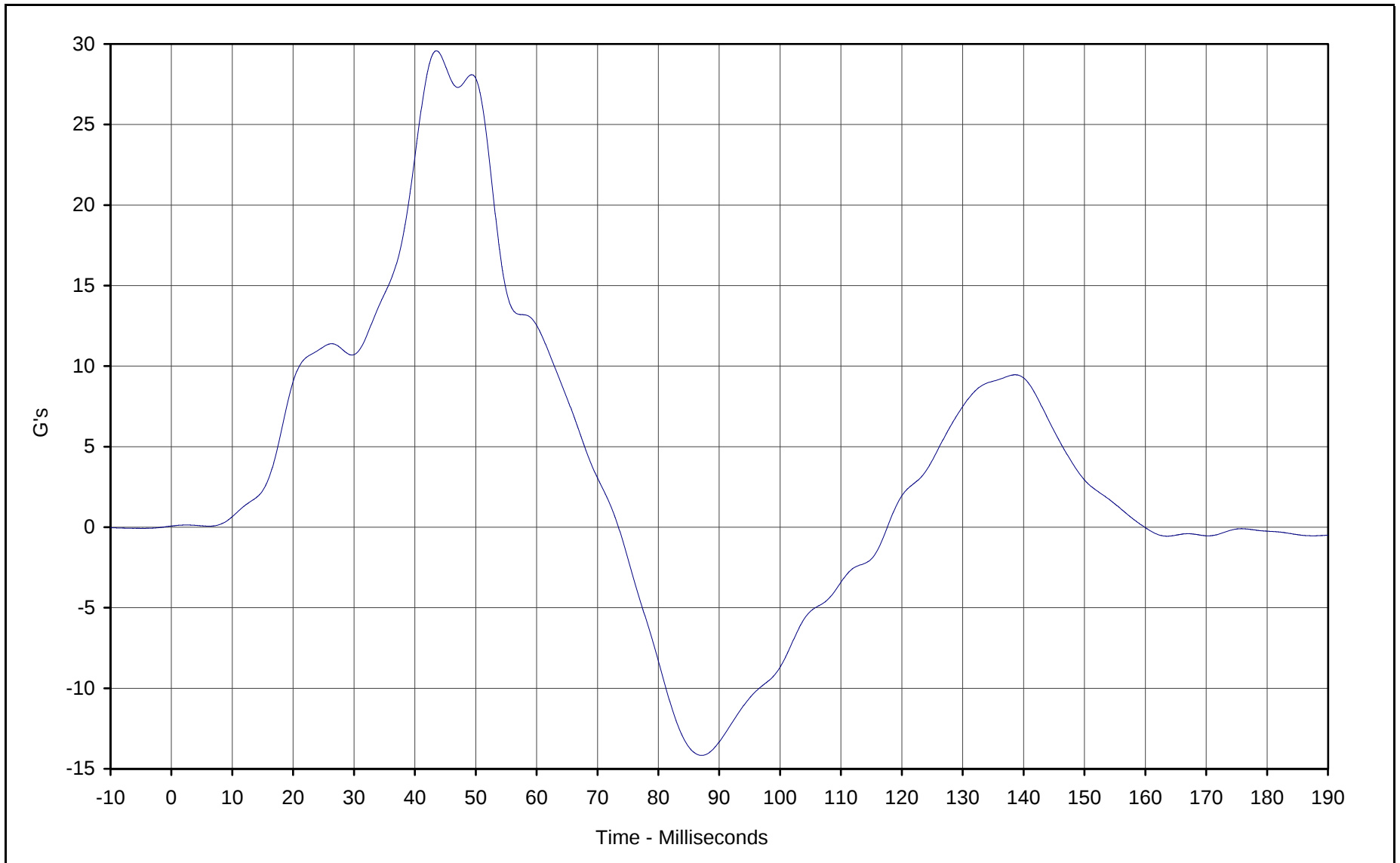




Curve Description: Pass. Lower Spine Redundant Y
Maximum Value: 21.6 at 59.3 Milliseconds
Minimum Value: -13.9 at 79.4 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-023

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV





Curve Description: Pass. Pelvis Redundant Y
Maximum Value: 29.6 at 43.5 Milliseconds
Minimum Value: -14.2 at 87.1 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 02/01/01
Curve Number: FIR-024

Test Program: 55/28 km/h Side Impact NCAP No.: M15205
Test Vehicle: 2001 Nissan Pathfinder 4x4 SUV



APPENDIX C
SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA

APPENDIX C
PRE-TEST SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	905	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	520	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	365	Pass
Overall Test Results				Pass

Laboratory Technician

January 19, 2001

Test Date

Approved By

Date



Performance Verification Data Side Impact Dummy (SID) Thorax Lateral Impact

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: TI12Z

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.28	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	42.2	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	42.5	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	22.0	Pass
Overall Test Results				Pass

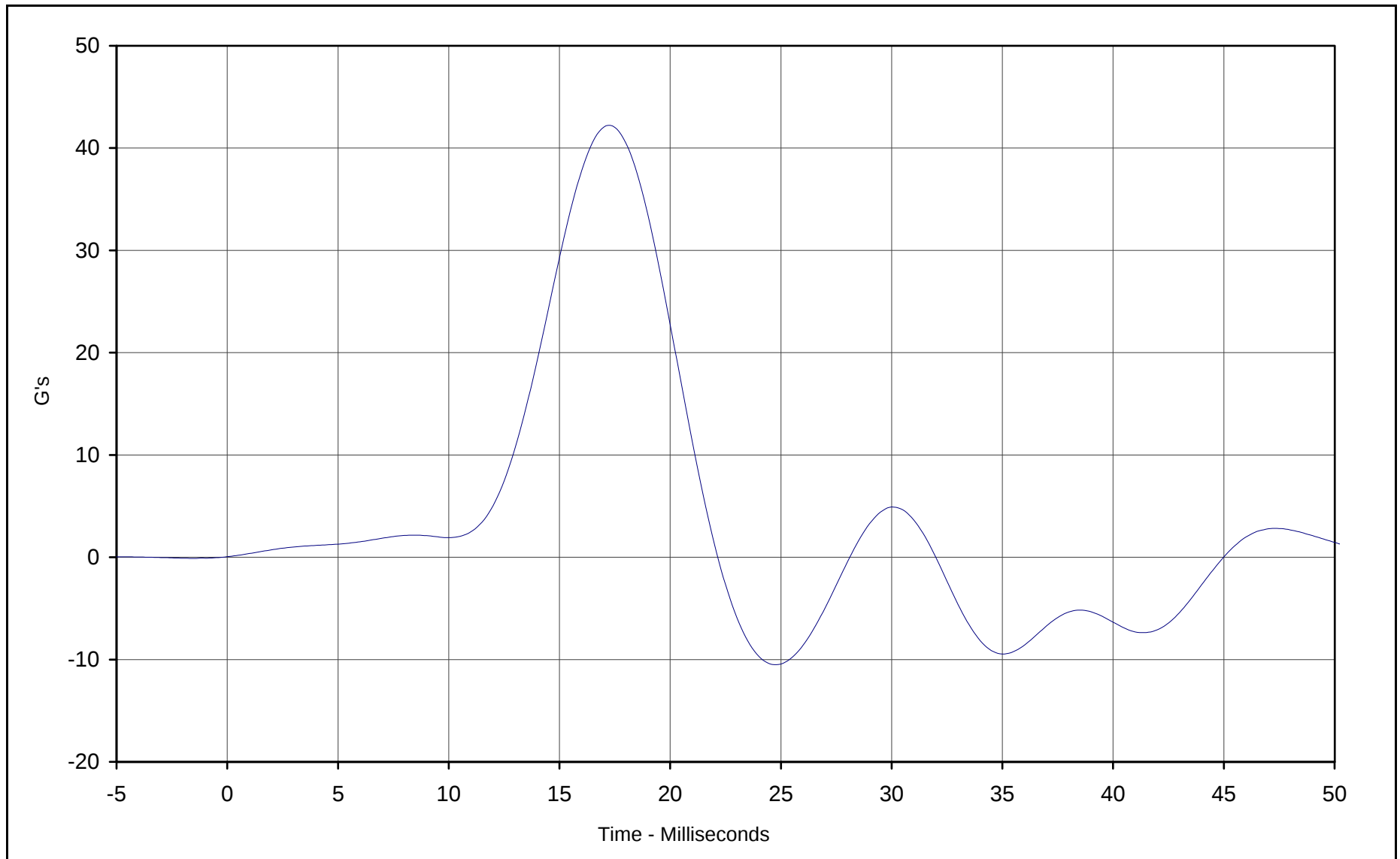
Laboratory Technician

January 18, 2001

Test Date

Approved By

Date

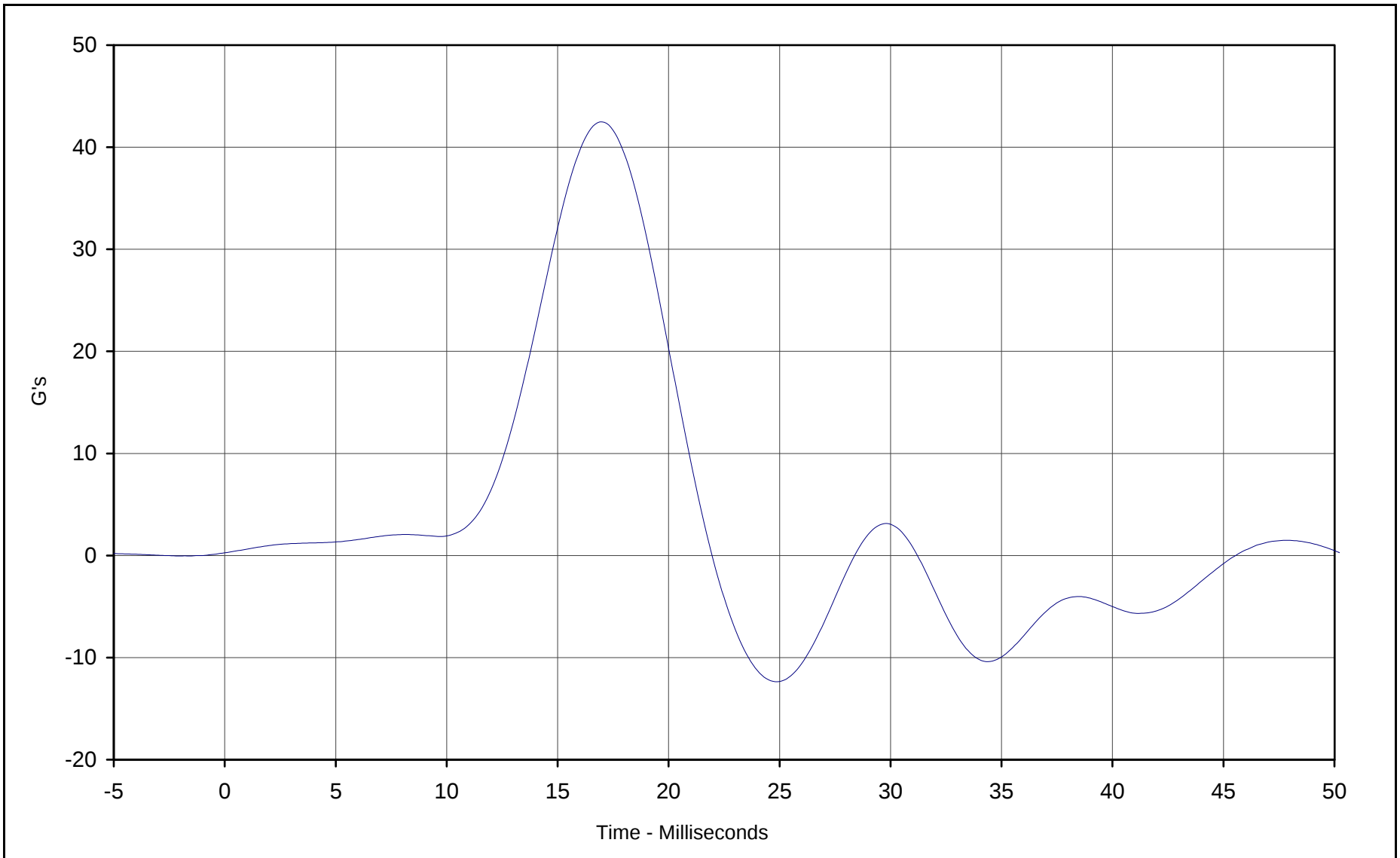


Curve Description: Left Upper Rib Y Acceleration
Maximum Value: 42.2 at 17.2 Milliseconds
Minimum Value: -10.5 at 24.8 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 1/18/01

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 274 Test I.D.: TI12Z



C-4



Curve Description: Left Lower Rib Y Acceleration

Maximum Value: 42.5 at 17.0 Milliseconds

Minimum Value: -12.4 at 24.9 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 1/18/01

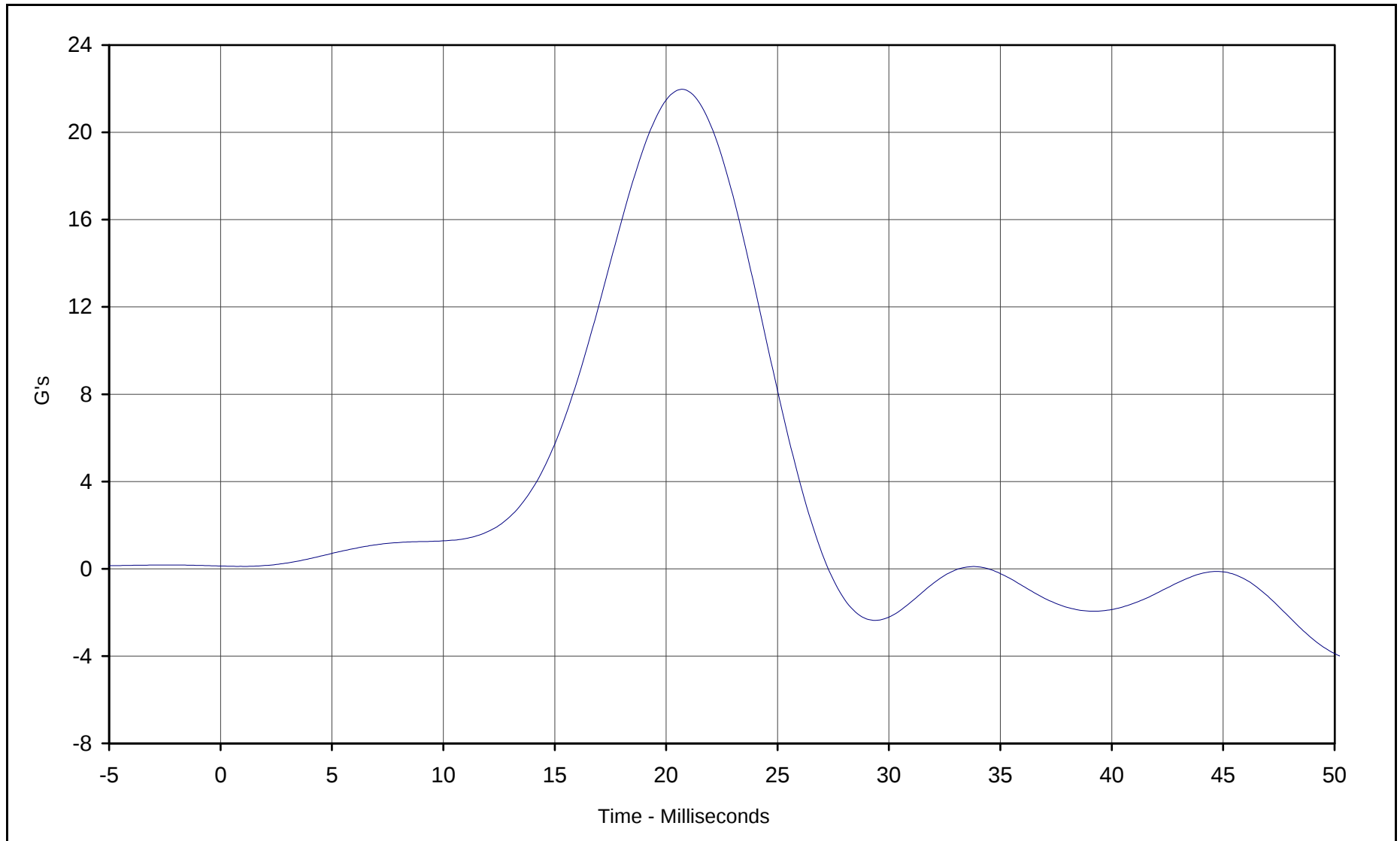
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: TI12Z



KAR21003-10

C-5



Curve Description: Lower Spine Y Acceleration
Maximum Value: 22.0 at 20.7 Milliseconds
Minimum Value: -4.2 at 51.4 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 1/18/01

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 274 Test I.D.: TI12Z



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Left Side Pelvis Lateral Impact

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: PI12Z

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.33	Pass
Pelvis Acceleration	G's	40.0 to 60.0	47.2	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	6.8	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

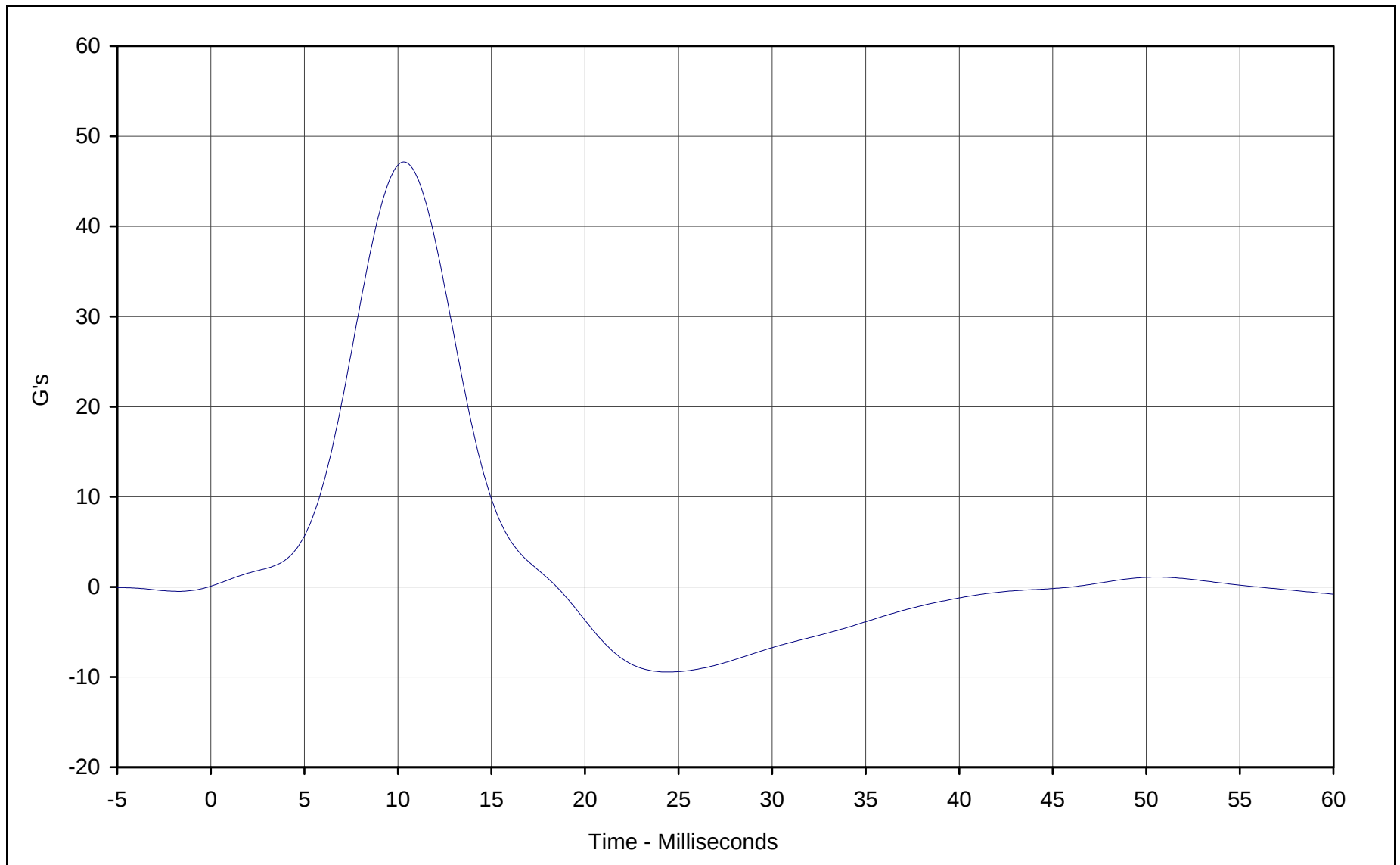
January 18, 2001

Test Date

Approved By

Date

C-7



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 47.2 at 10.3 Milliseconds
Minimum Value: -9.4 at 24.4 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 1/18/01

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 274 Test I.D.: PI12Z



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: AB01J

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	29.3	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	42.7	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	59.2	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	81.7	Pass
Overall Test Results				Pass

Laboratory Technician

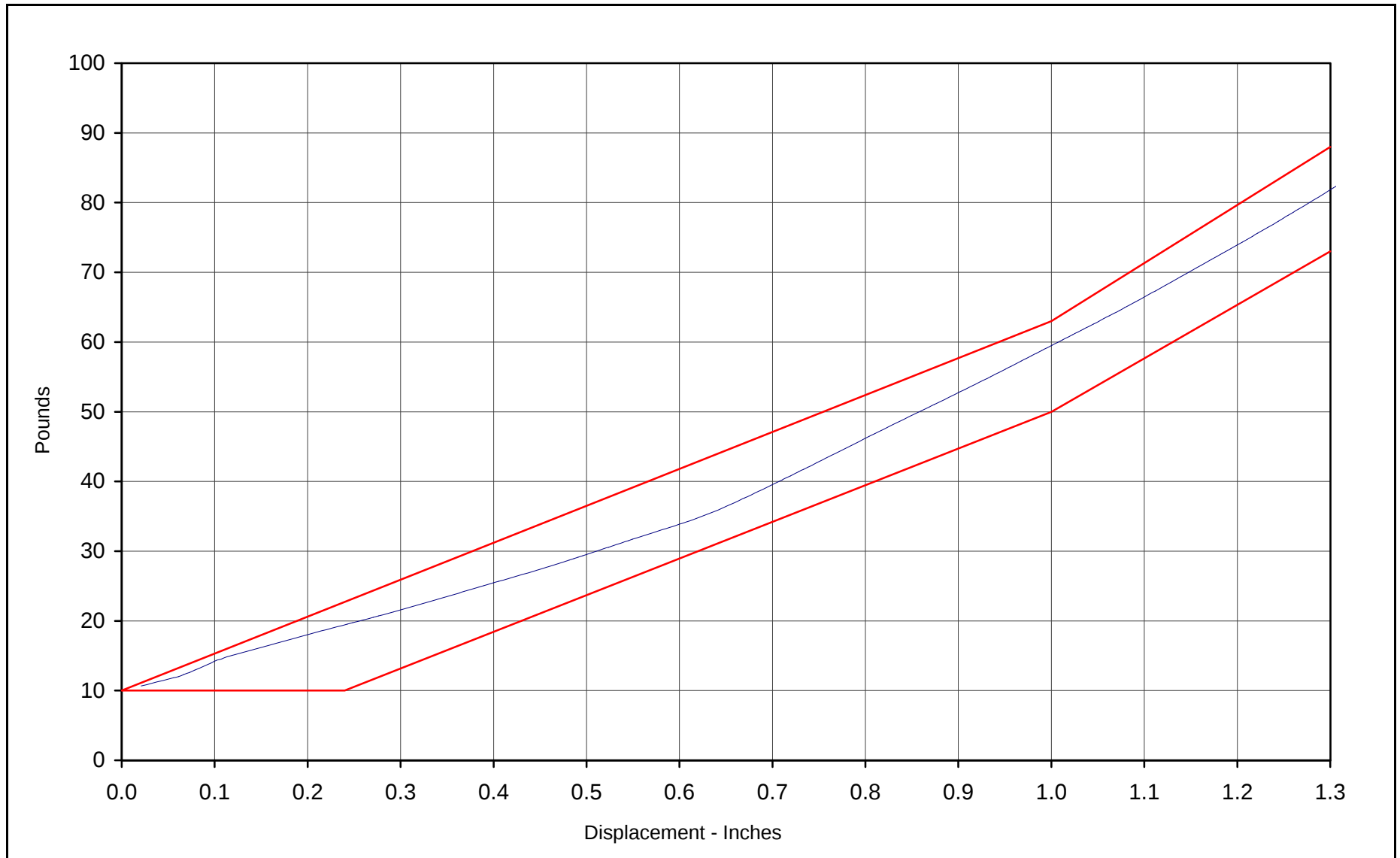
January 18, 2001

Test Date

Approved By

Date

C-9

Curve Description: Abdomen Force vs. DisplacementForce at 0.5 In.: 29.3 PoundsForce at 0.75 In.: 42.7 PoundsForce at 1.0 In.: 59.2 PoundsForce at 1.3 In.: 81.7 PoundsDate of Test: 1/18/01Test Program: SID Abdominal CompressionTest Information: SID S/N: 274 Test I.D.: AB01J

KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: HD01A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	245.5	Pass
Peak Lateral Acceleration	G's	≤10.0	7.6	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.1	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

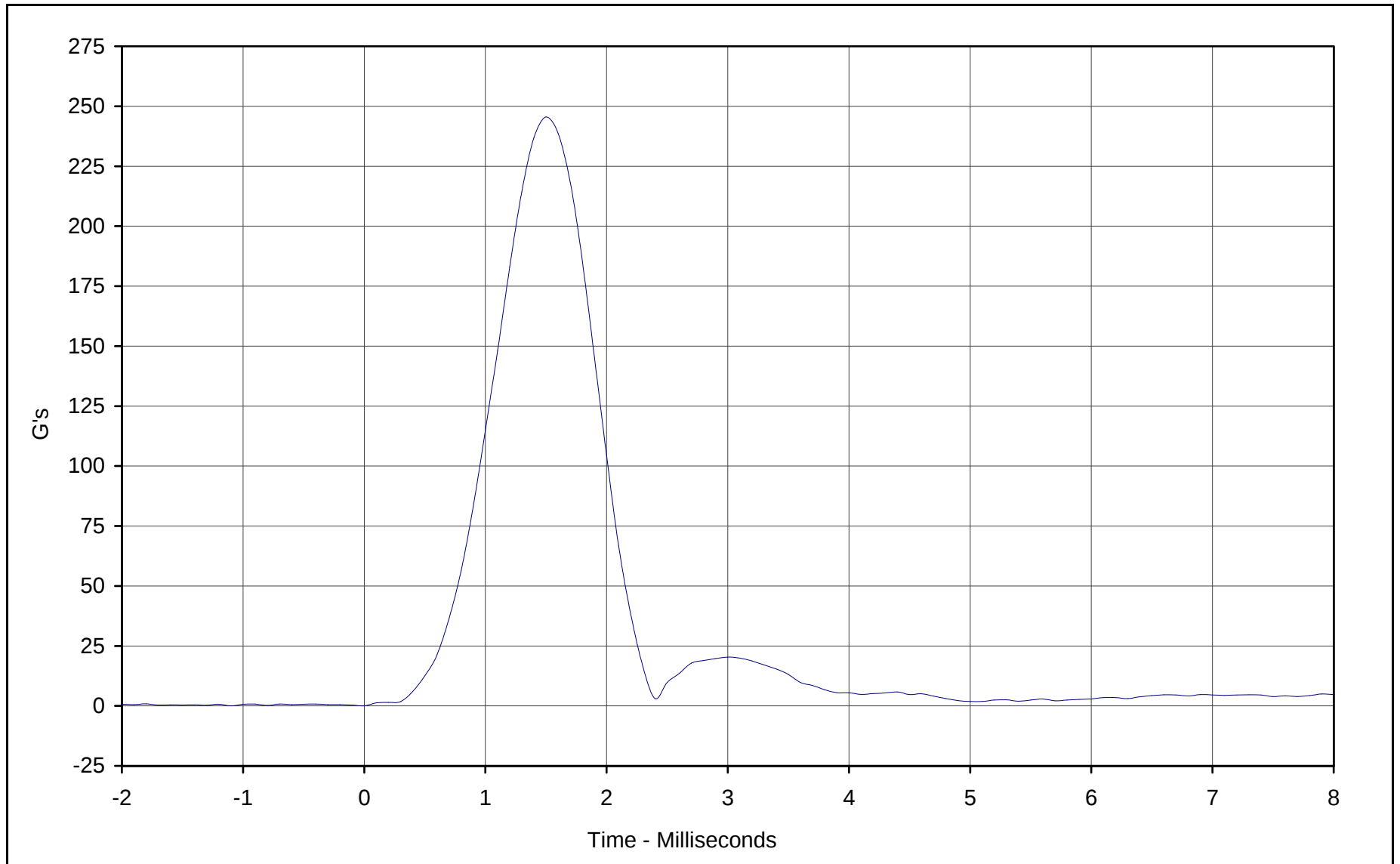
January 18, 2001

Test Date

Approved By

Date

C-11



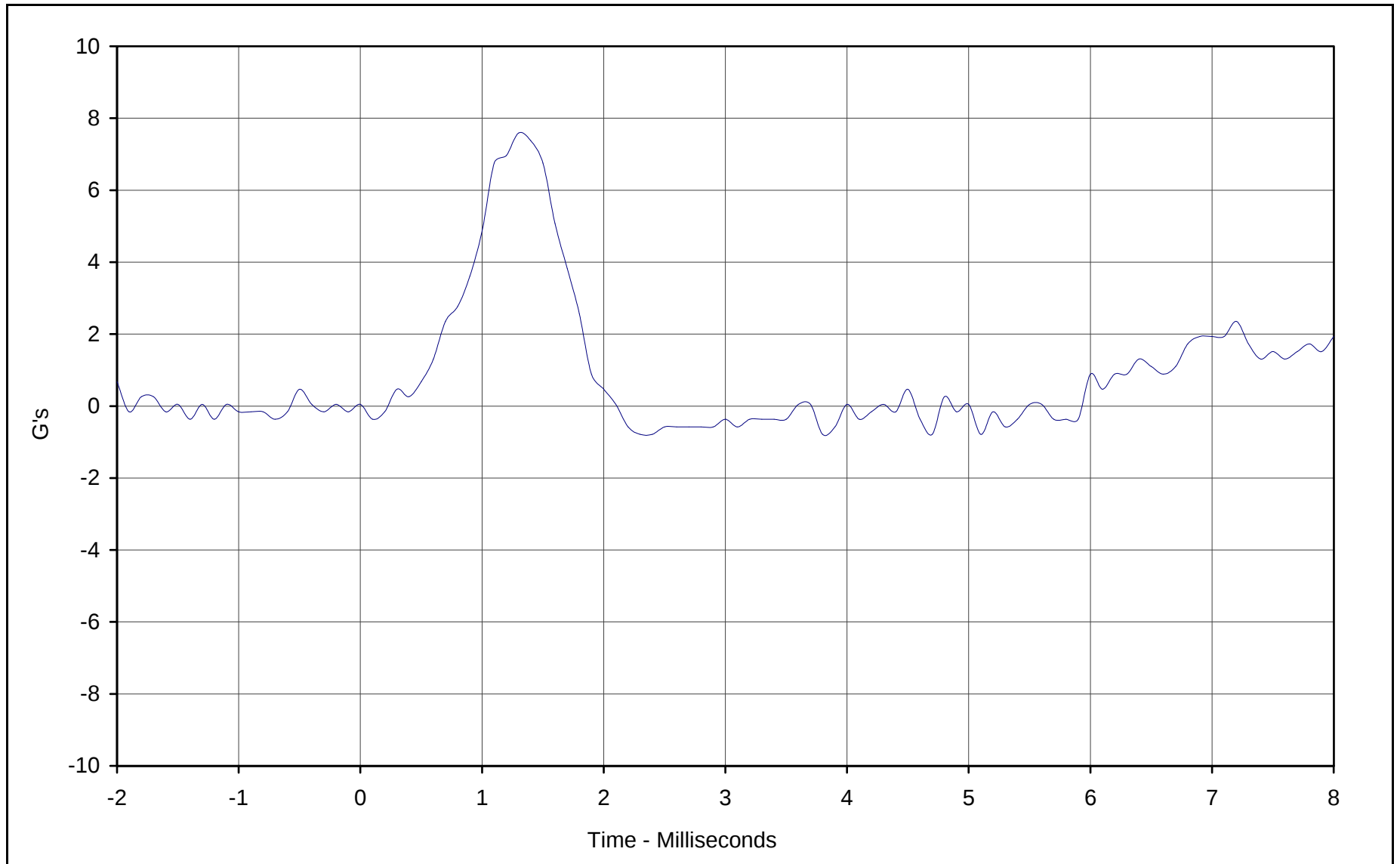
Curve Description: Head Resultant Acceleration
Maximum Value: 245.5 at 1.5 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 1/18/01

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: HD01A



KAR21003-10

C-12



Curve Description: Head Y Axis Acceleration

Maximum Value: 7.6 at 1.3 Milliseconds

Minimum Value: -0.8 at 2.3 Milliseconds

SAE Filter Class: 1000

Date of Test: 1/18/01

Test Program: SID Head Drop Calibration

Test Information: SID S/N: 274 Test I.D.: HD01A



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	907	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	510	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	515	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	365	Pass
Overall Test Results				Pass

Laboratory Technician

January 19, 2001

Test Date

Approved By

Date



Performance Verification Data Side Impact Dummy (SID) Thorax Lateral Impact

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: TI12X

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	41.7	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	39.3	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	17.6	Pass
Overall Test Results				Pass

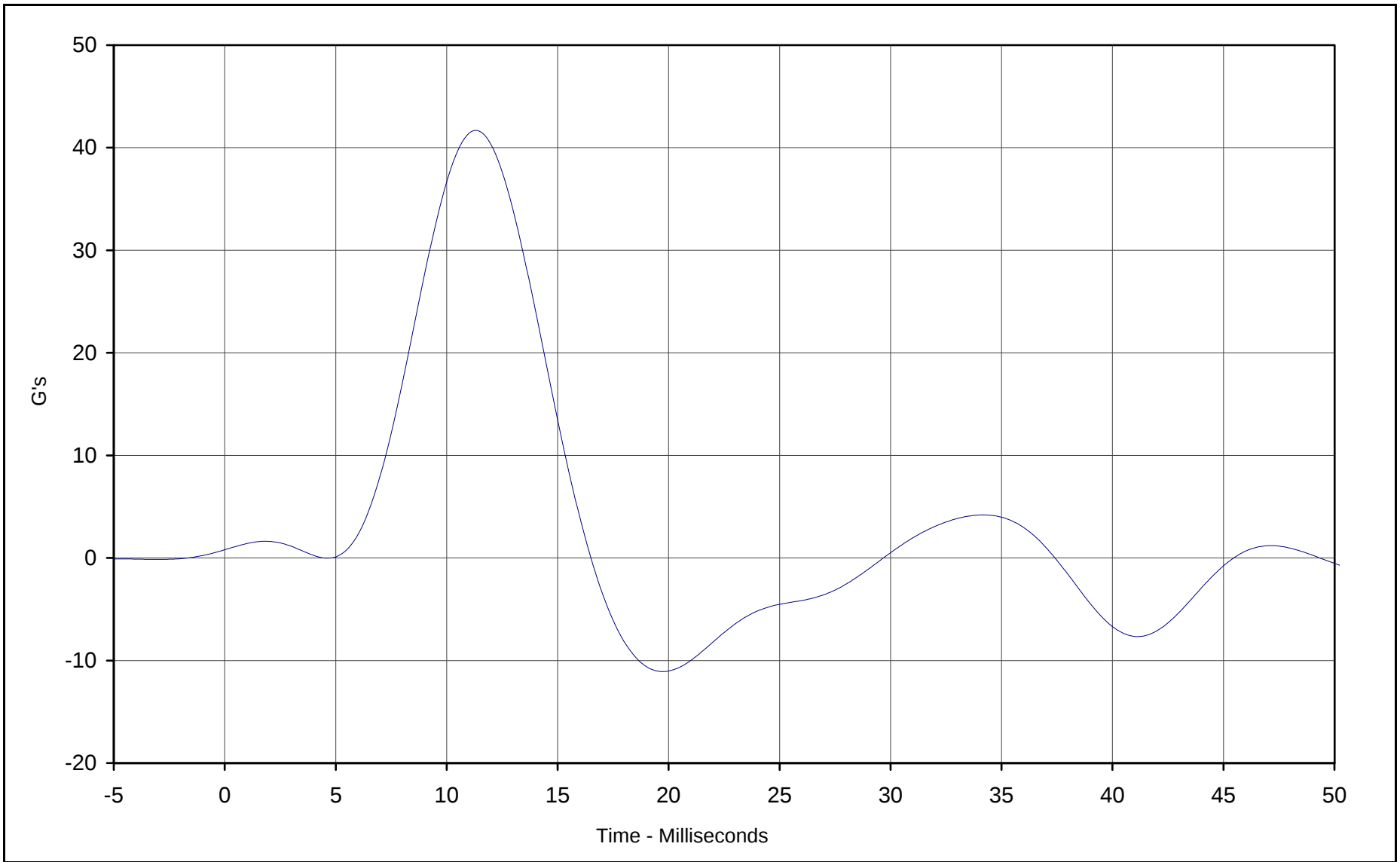
Laboratory Technician

January 18, 2001

Test Date

Approved By

Date



Curve Description: Left Upper Rib Y Acceleration

Maximum Value: 41.7 at 11.3 Milliseconds

Minimum Value: -11.1 at 19.7 Milliseconds

SAE Filter Class: FIR 100

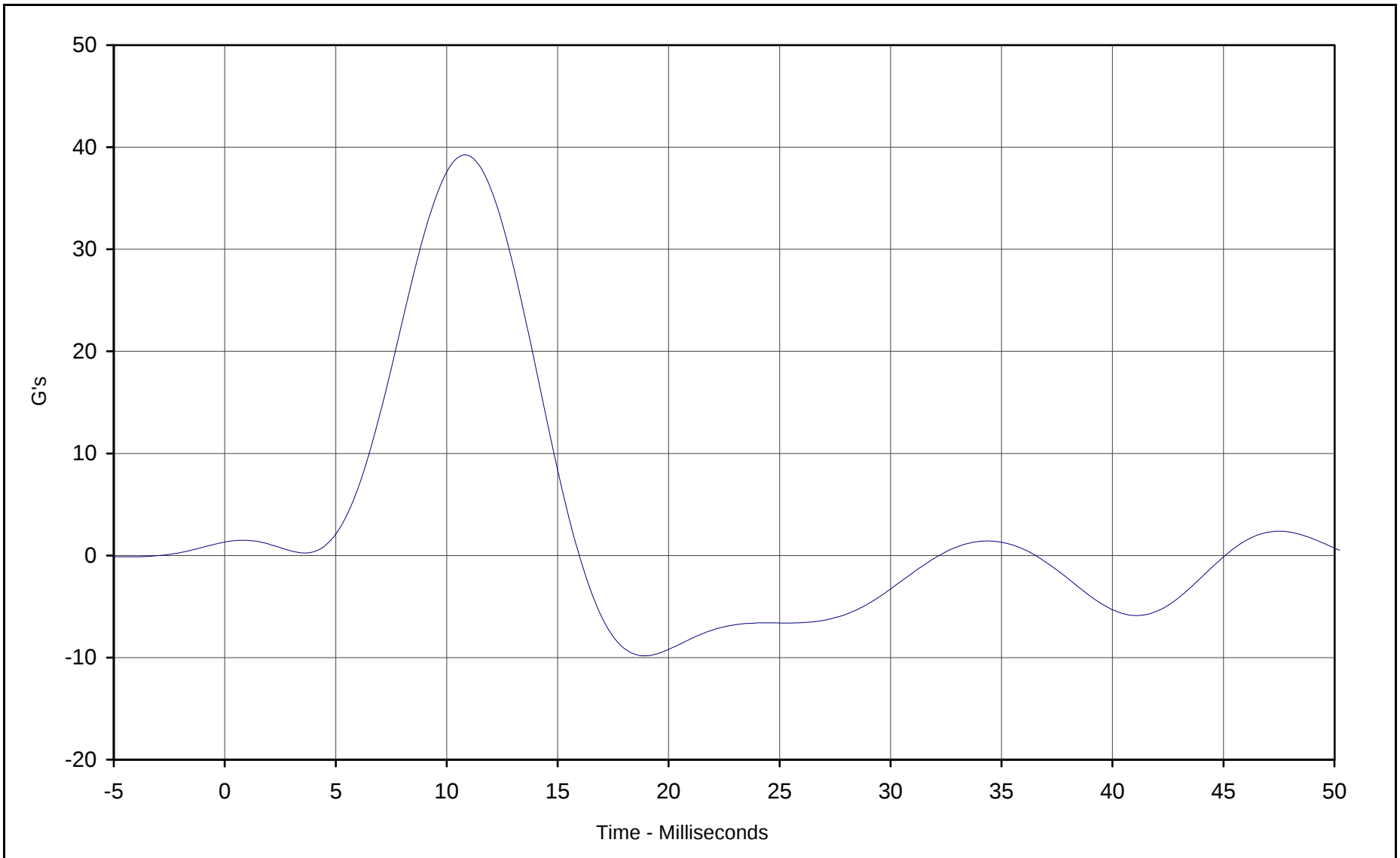
Date of Test: 1/18/01

Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 275 Test I.D.: TI12X



C-16



Curve Description: Left Lower Rib Y Acceleration

Maximum Value: 39.3 at 10.8 Milliseconds

Minimum Value: -9.8 at 18.9 Milliseconds

SAE Filter Class: FIR 100

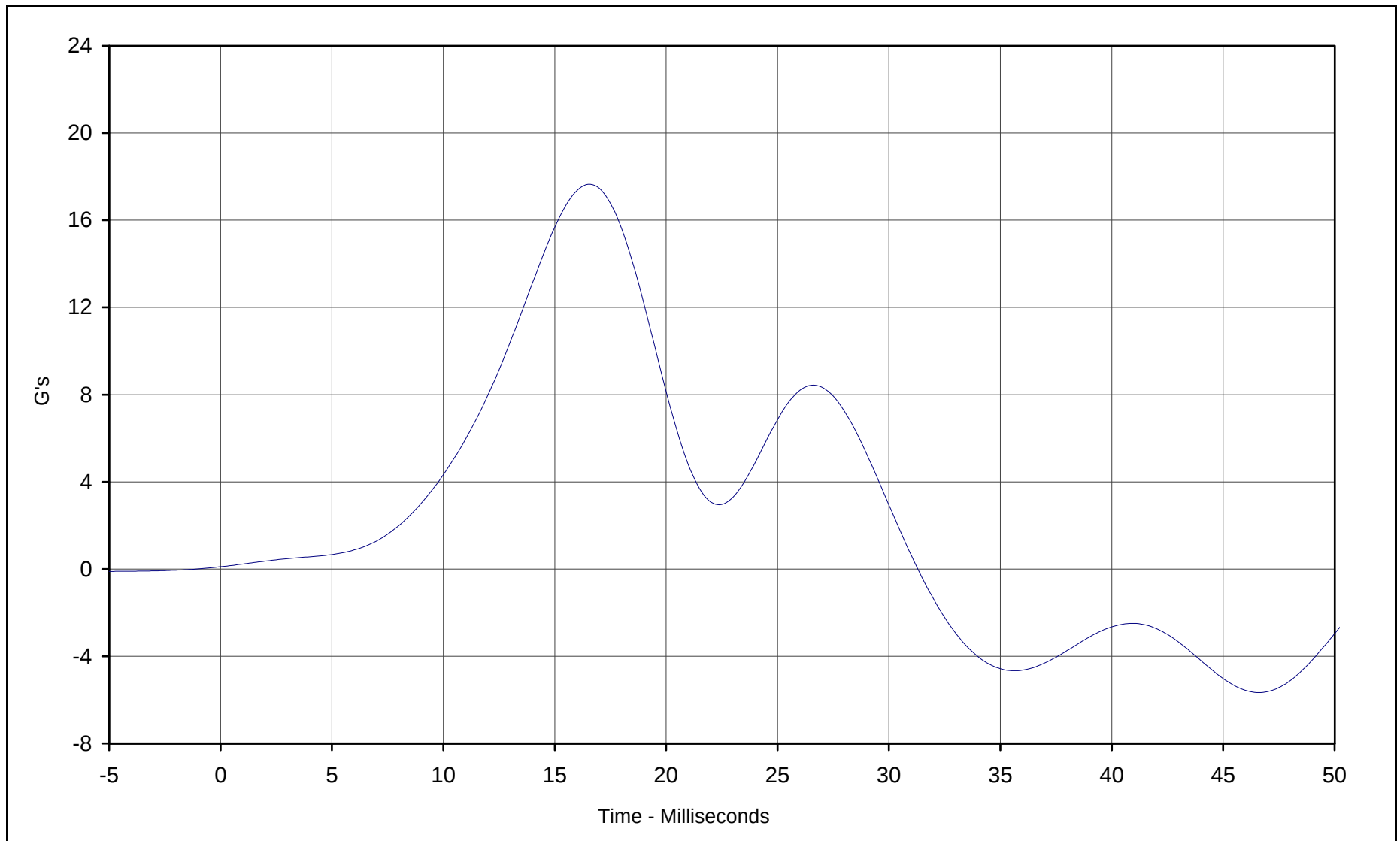
Date of Test: 1/18/01

Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 275 Test I.D.: TI12X



KAR21003-10



Curve Description: Lower Spine Y Acceleration
Maximum Value: 17.6 at 16.6 Milliseconds
Minimum Value: -5.7 at 46.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 1/18/01

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: TI12X





Performance Verification Data

Side Impact Dummy (SID)

Left Side Pelvis Lateral Impact

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: PI12X

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Pelvis Acceleration	G's	40.0 to 60.0	48.5	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	7.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

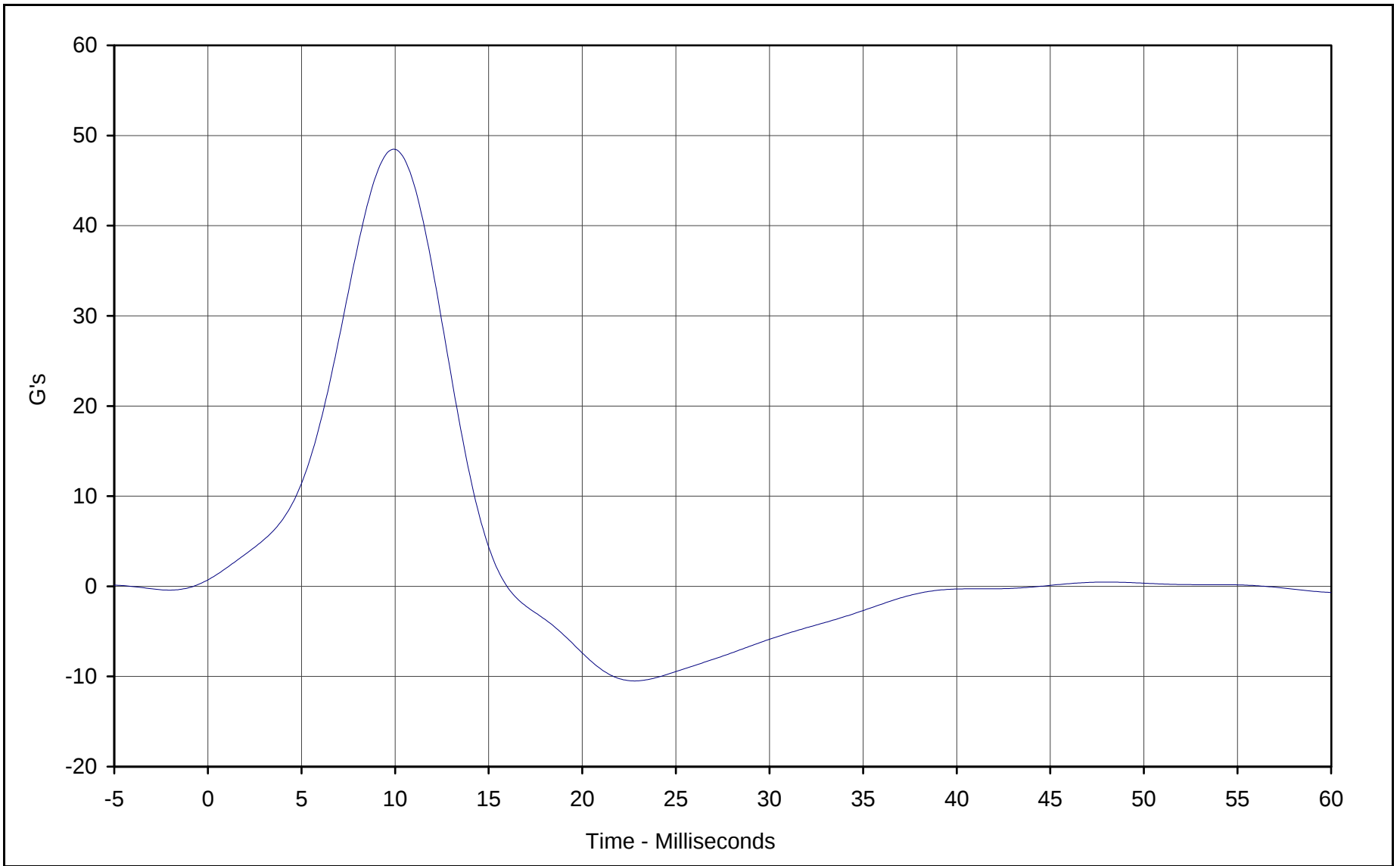
January 18, 2001

Test Date

Approved By

Date

C-19



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 48.5 at 9.9 Milliseconds
Minimum Value: -10.5 at 22.8 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 1/18/01

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 275 Test I.D.: PI12X



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: AB01I

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	29.2	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	42.9	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	59.5	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	82.5	Pass
Overall Test Results				Pass

Laboratory Technician

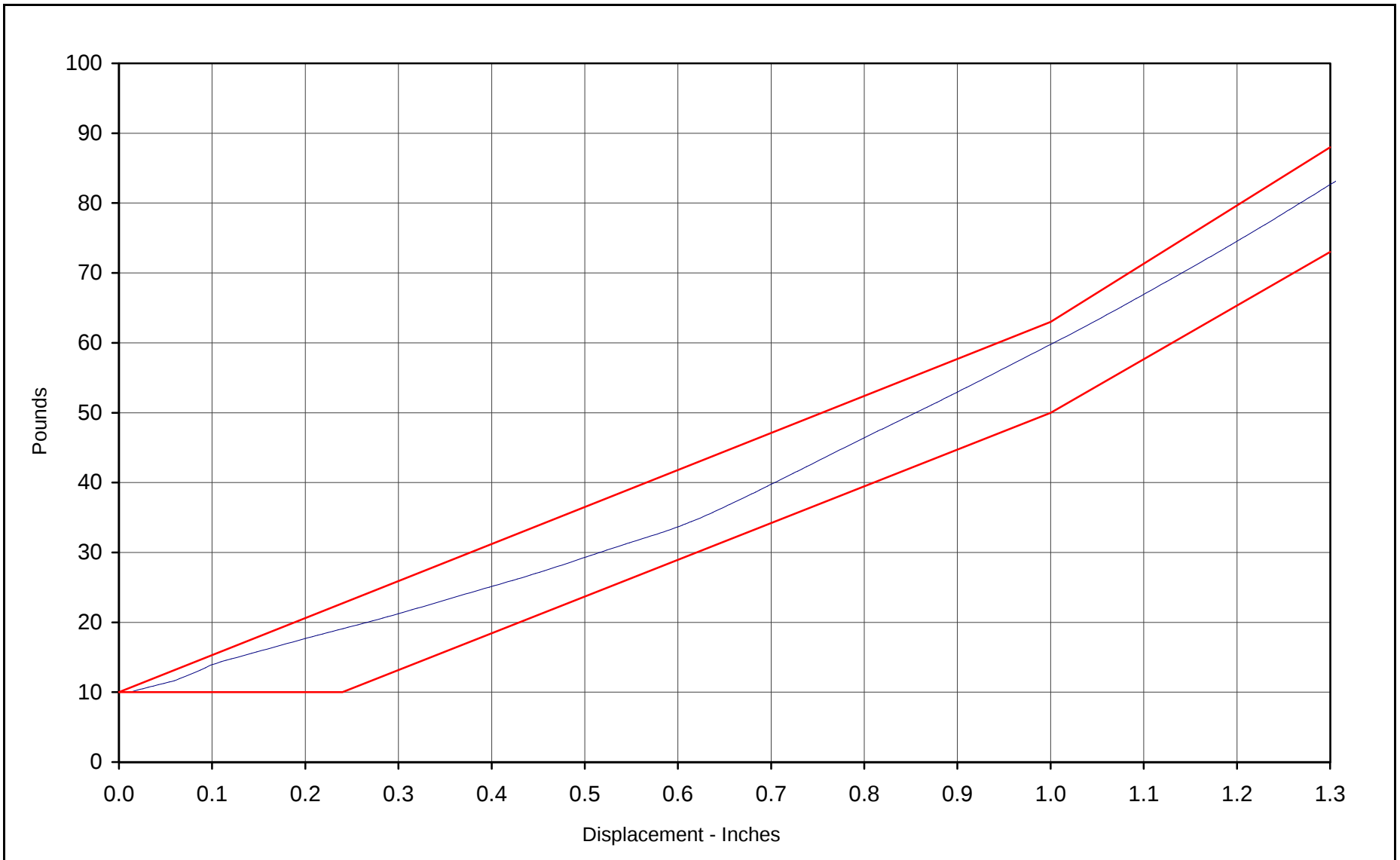
January 18, 2001

Test Date

Approved By

Date

C-21



Curve Description: Abdomen Force vs. Displacement

Force at 0.5 In.: 29.2 Pounds

Force at 0.75 In.: 42.9 Pounds

Force at 1.0 In.: 59.5 Pounds

Force at 1.3 In.: 82.5 Pounds

Date of Test: 1/18/01

Test Program: SID Abdominal Compression

Test Information: SID S/N: 275 Test I.D.: AB01I



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: HD01B

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	240.6	Pass
Peak Lateral Acceleration	G's	≤10.0	3.0	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.1	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

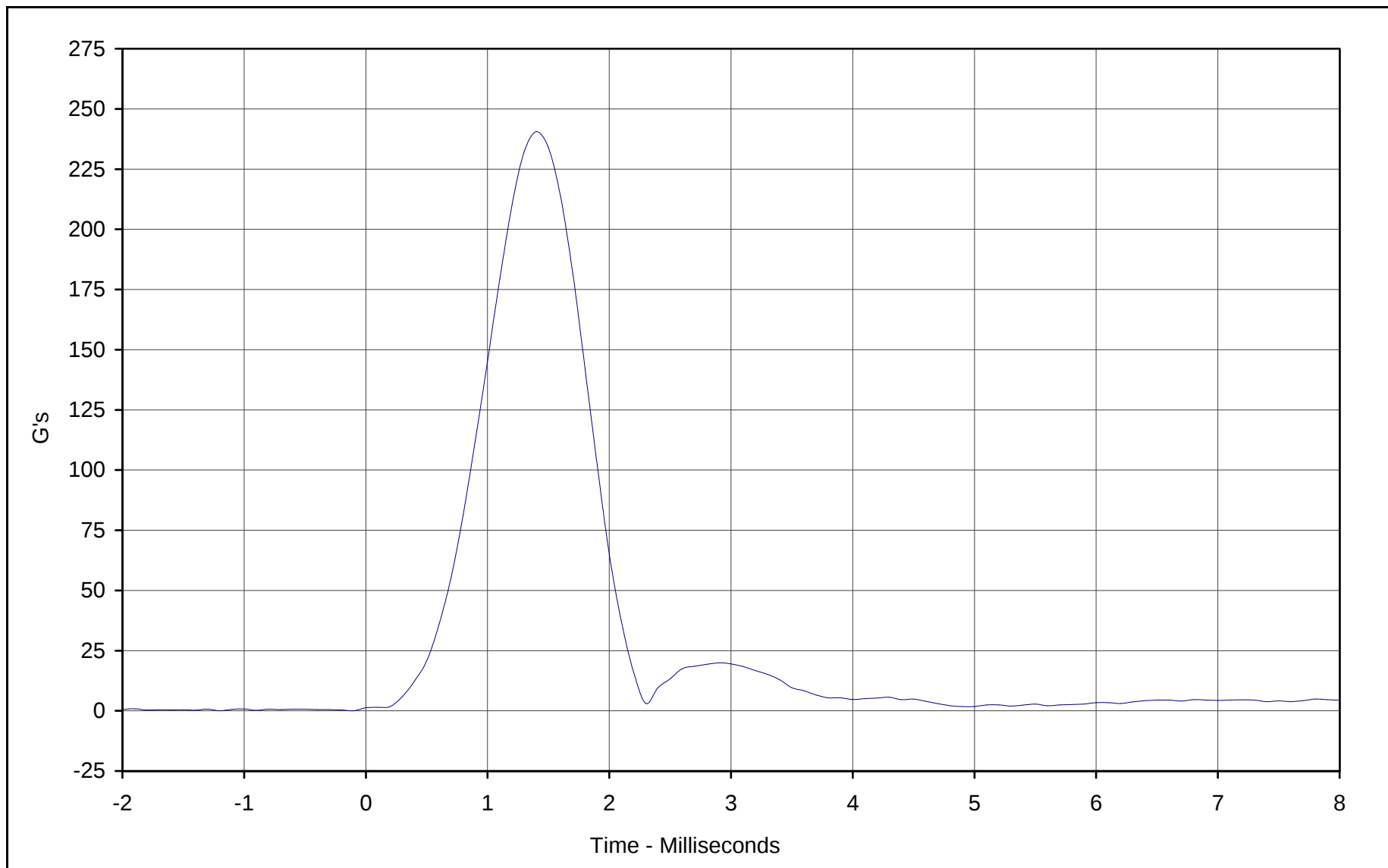
Laboratory Technician

January 18, 2001
Test Date

Approved By

Date

C-23



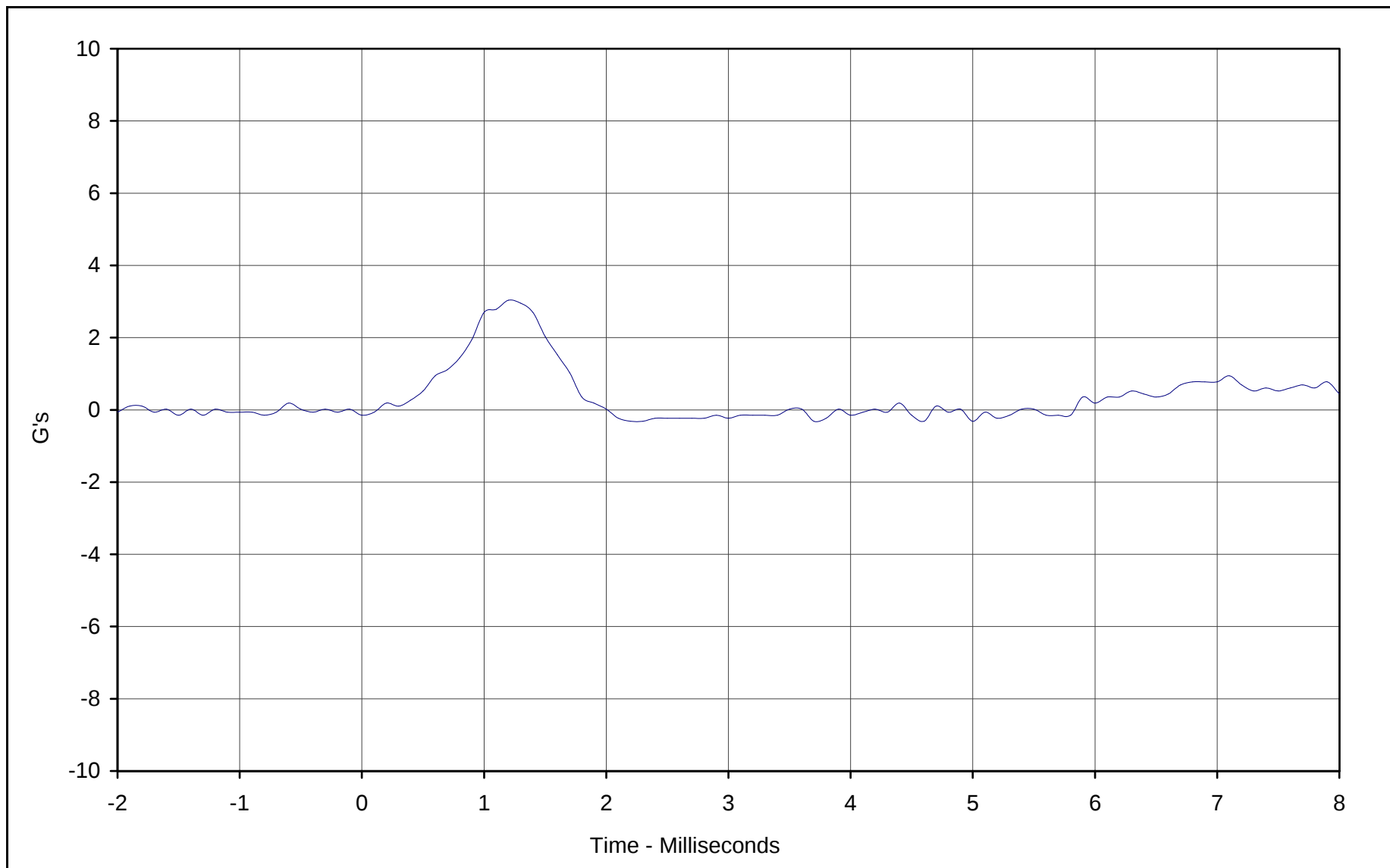
Curve Description: Head Resultant Acceleration
Maximum Value: 240.6 at 1.4 Milliseconds
Minimum Value: 1.3 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 1/18/01

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 275 Test I.D.: HD01B



KAR21003-10

C-24



Curve Description: Head Y Axis Acceleration

Maximum Value:	3.0	at	1.2	Milliseconds
Minimum Value:	-0.3	at	2.2	Milliseconds
SAE Filter Class:	1000			
Date of Test:	1/18/01			

Test Program: SID Head Drop Calibration

Test Information: SID S/N: 275 Test I.D.: HD01B



KAR21003-10

APPENDIX C
POST-TEST SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	907	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	510	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	515	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	360	Pass
Overall Test Results				Pass

Laboratory Technician

February 9, 2001

Test Date

Approved By

Date



Performance Verification Data Side Impact Dummy (SID) Thorax Lateral Impact

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: TI01D

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.30	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	41.4	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	42.4	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	19.9	Pass
Overall Test Results				Pass

Laboratory Technician

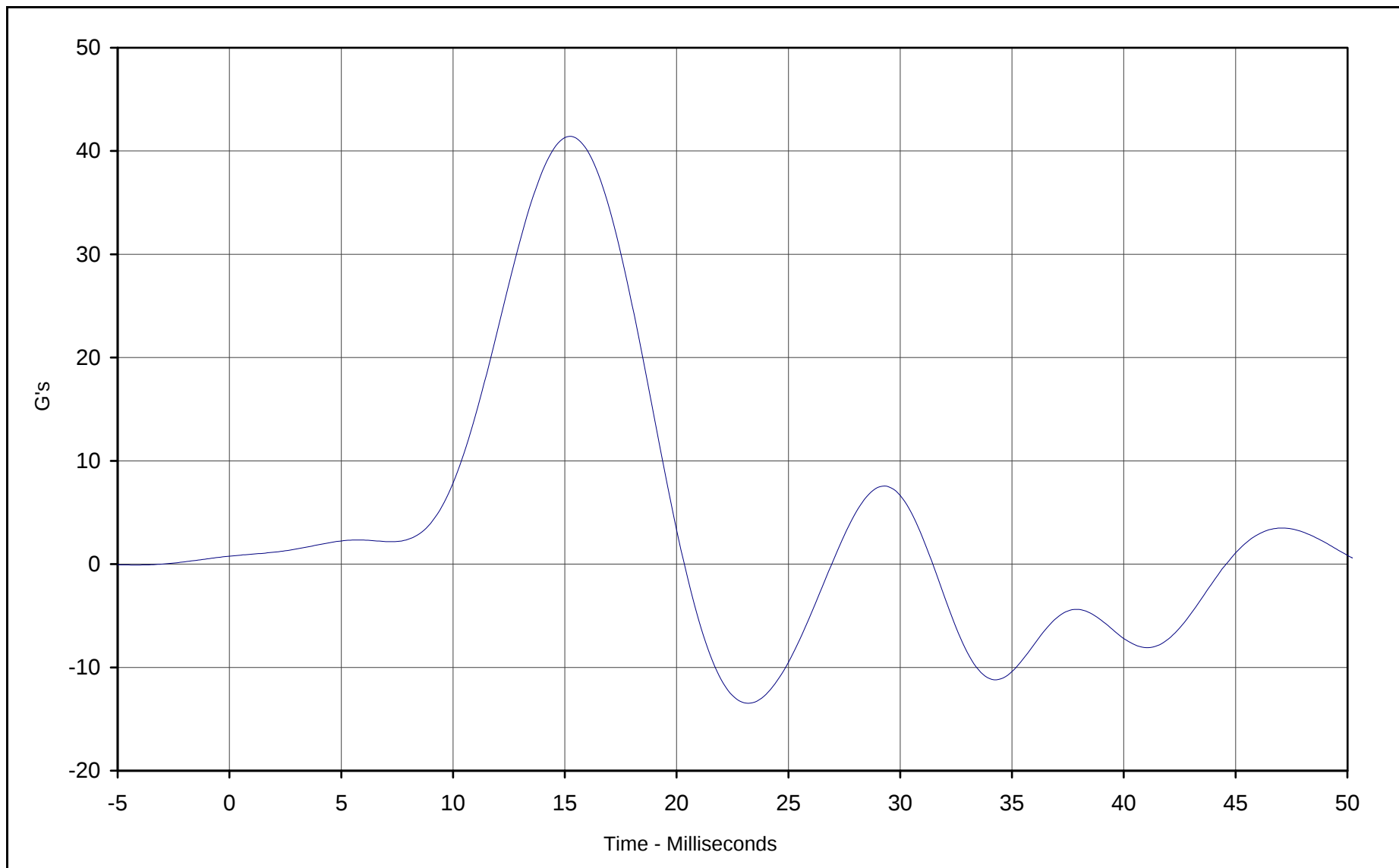
February 9, 2001

Test Date

Approved By

Date

C-27



Curve Description: Left Upper Rib Y Acceleration

Maximum Value: 41.4 at 15.2 Milliseconds

Minimum Value: -13.5 at 23.2 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 2/9/01

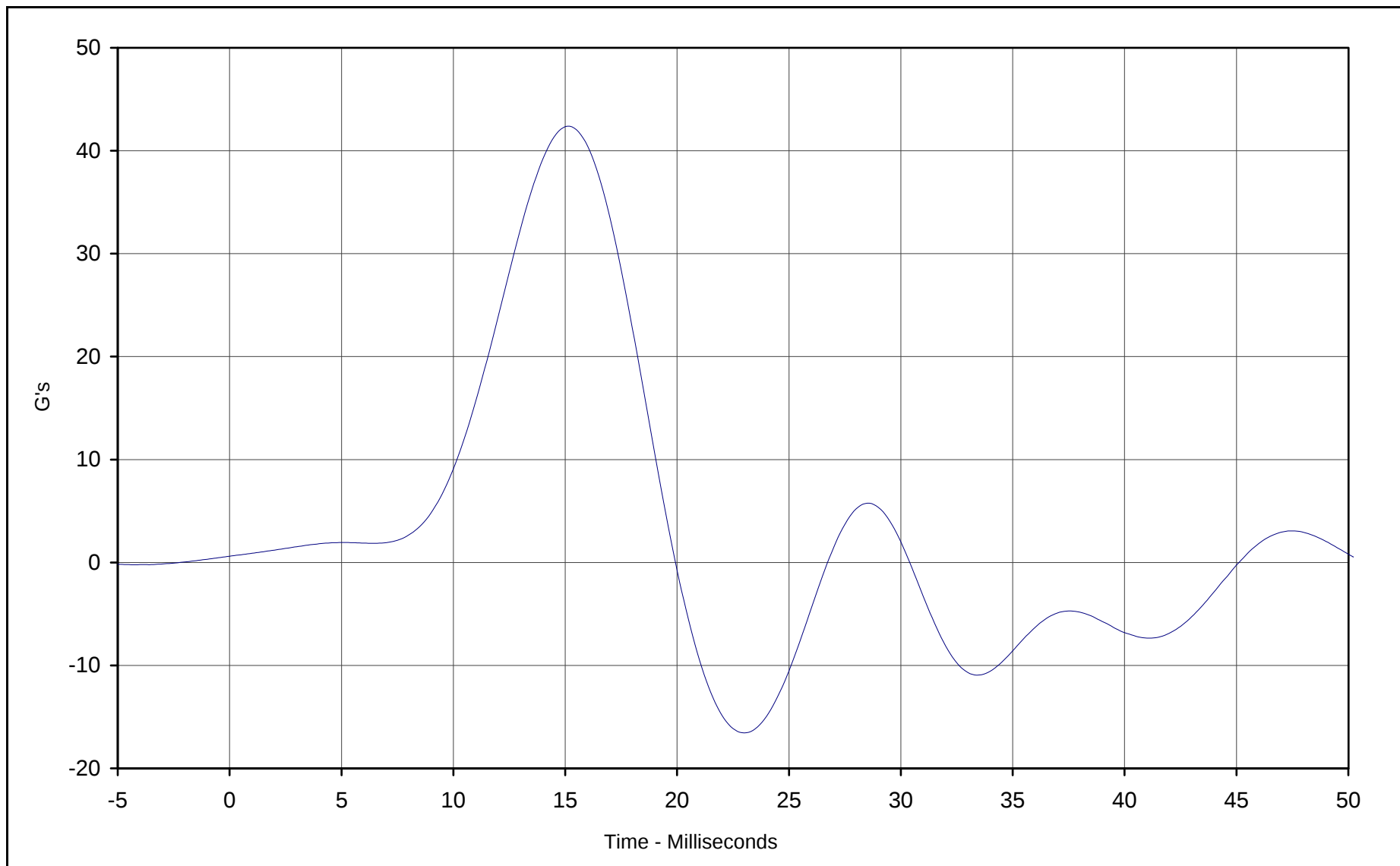
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: TI01D



KAR21003-10

C-28



Curve Description: Left Lower Rib Y Acceleration

Maximum Value: 42.4 at 15.1 Milliseconds

Minimum Value: -16.6 at 23.0 Milliseconds

SAE Filter Class: FIR 100

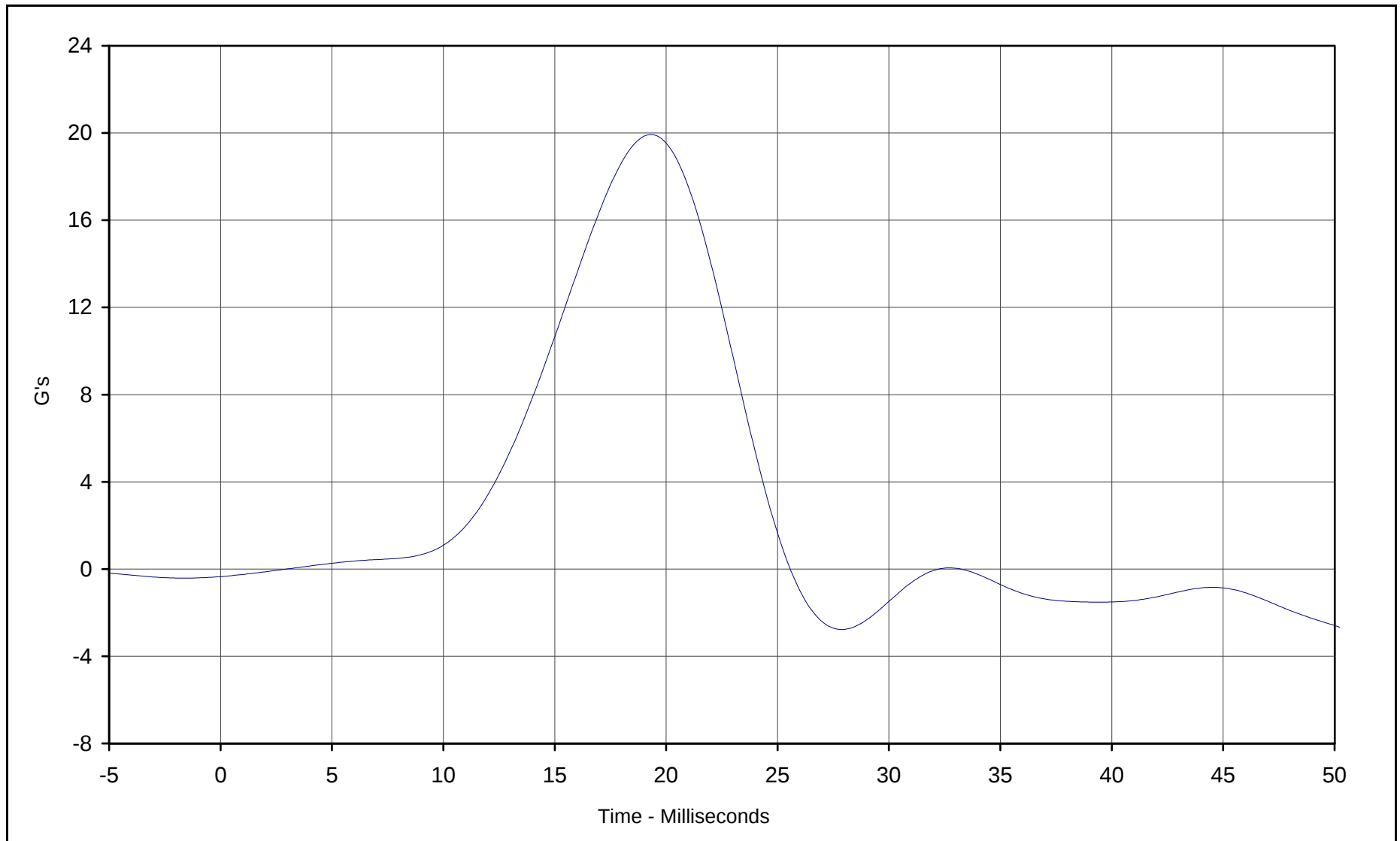
Date of Test: 2/9/01

Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: TI01D



KAR21003-10



Curve Description: Lower Spine Y Acceleration
Maximum Value: 19.9 at 19.3 Milliseconds
Minimum Value: -4.2 at 54.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 2/9/01

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 274 Test I.D.: TI01D





Performance Verification Data

Side Impact Dummy (SID)

Left Side Pelvis Lateral Impact

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: PI01D

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.28	Pass
Pelvis Acceleration	G's	40.0 to 60.0	42.1	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	6.4	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

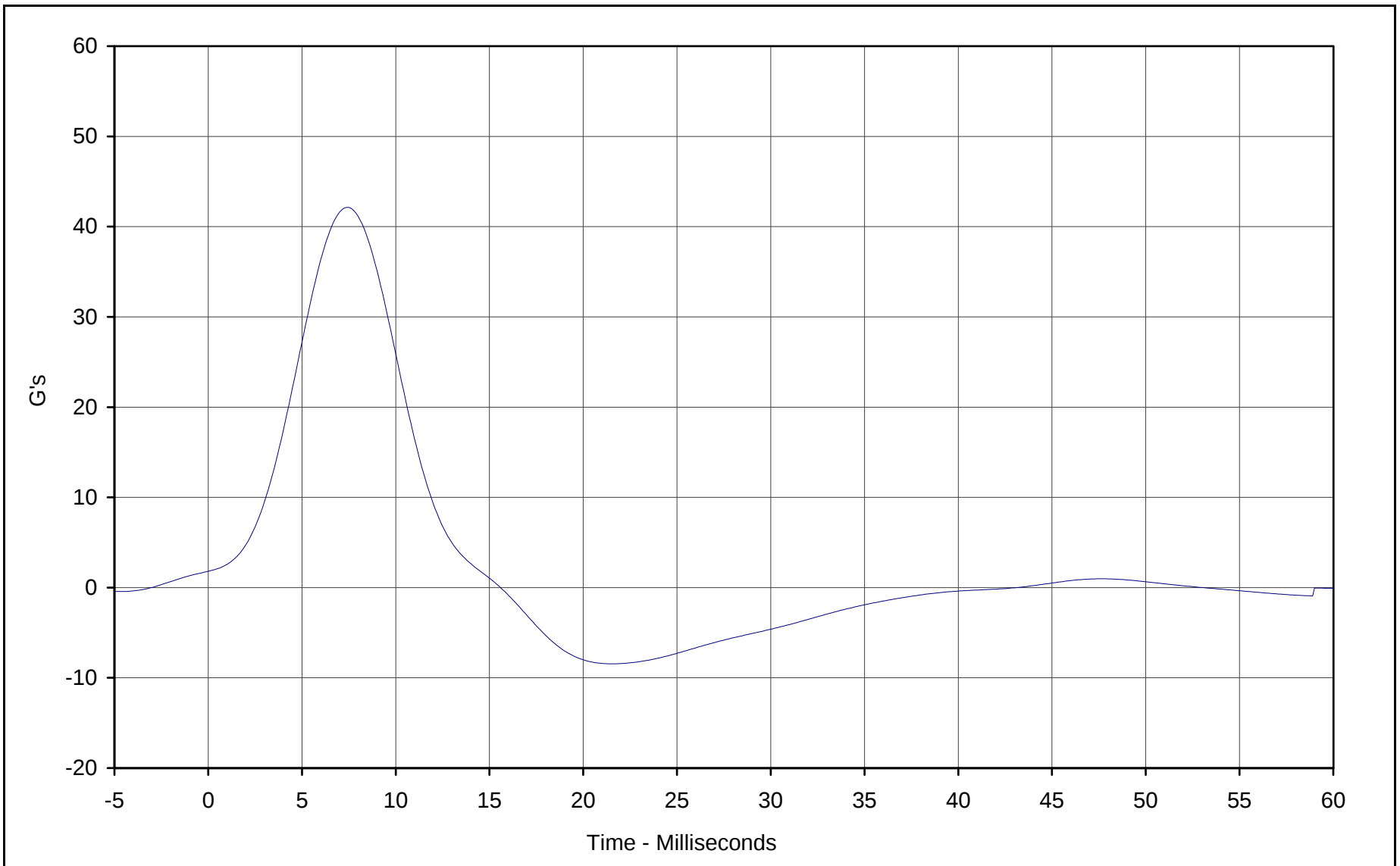
February 9, 2001

Test Date

Approved By

Date

C-31



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 42.1 at 7.4 Milliseconds
Minimum Value: -8.4 at 21.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 2/9/01

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 274 Test I.D.: PI01D



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: AB12Z

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	26.4	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	39.0	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	54.1	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	74.8	Pass
Overall Test Results				Pass

Laboratory Technician

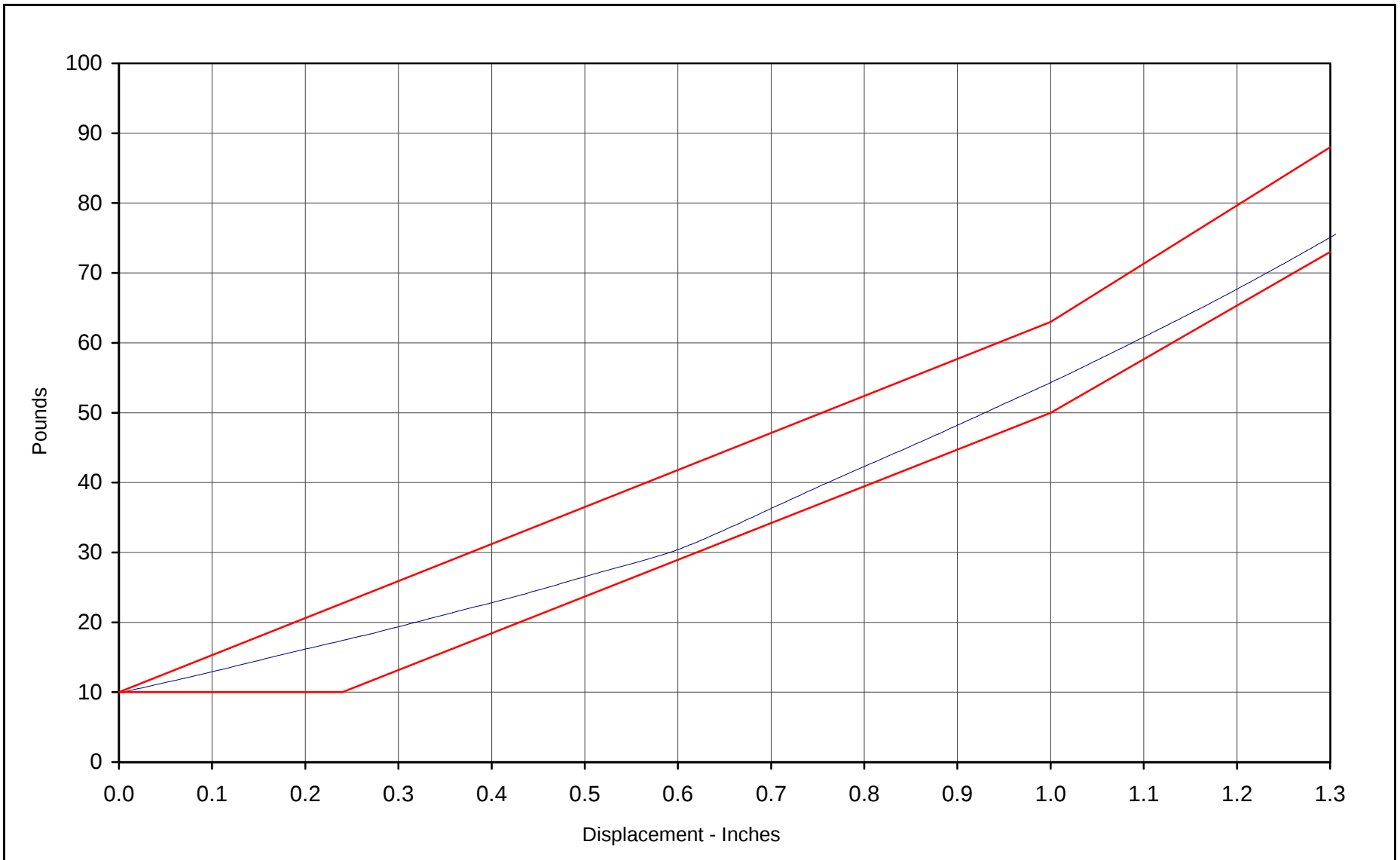
February 8, 2001

Test Date

Approved By

Date

C-33

Curve Description: Abdomen Force vs. DisplacementForce at 0.5 In.: 26.4 PoundsForce at 0.75 In.: 39.0 PoundsForce at 1.0 In.: 54.1 PoundsForce at 1.3 In.: 74.8 PoundsDate of Test: 2/8/01Test Program: SID Abdominal CompressionTest Information: SID S/N: 274 Test I.D.: AB12Z

KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: SH12F

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	257.9	Pass
Peak Lateral Acceleration	G's	≤10.0	6.4	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.1	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

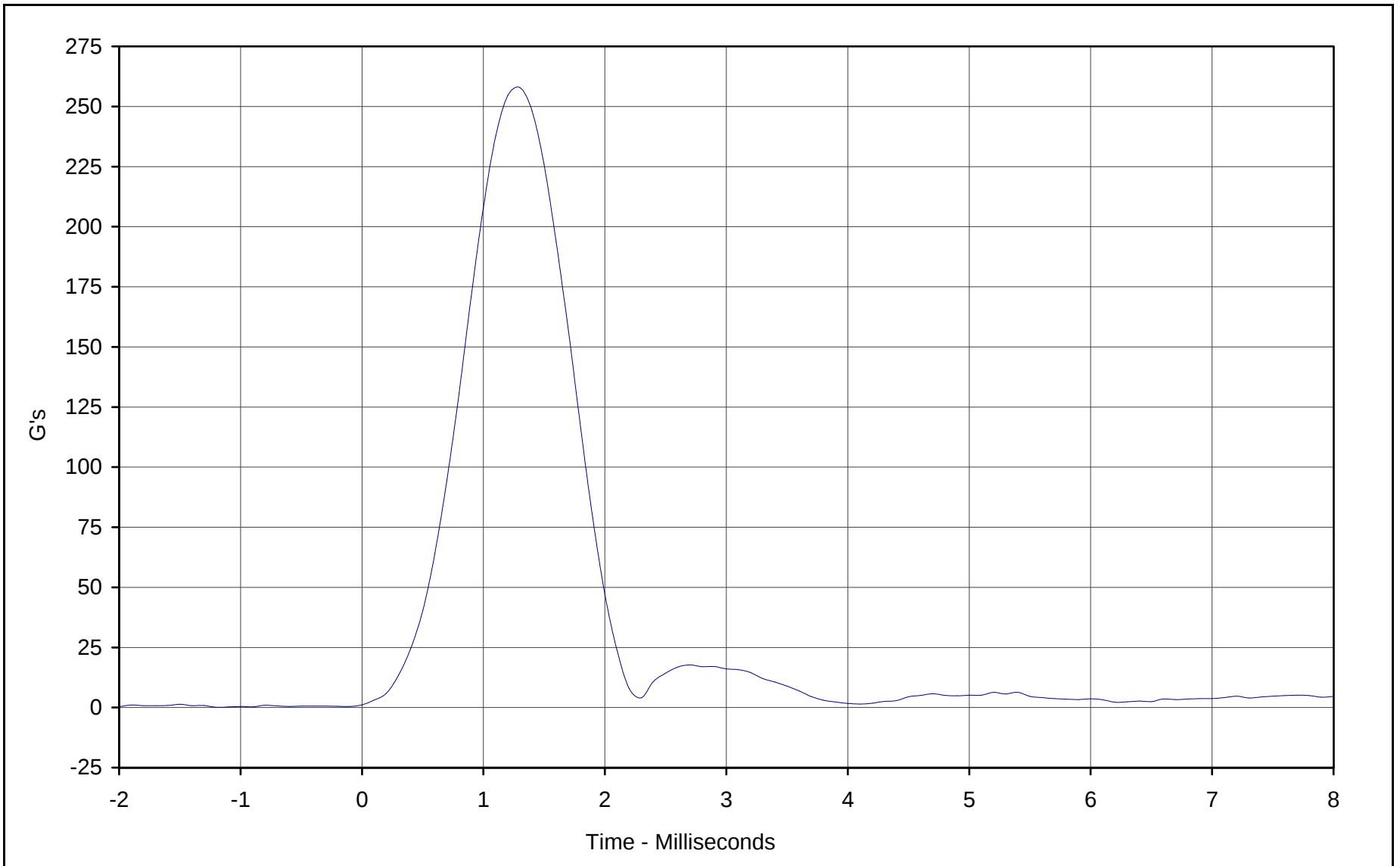
February 8, 2001

Test Date

Approved By

Date

C-35

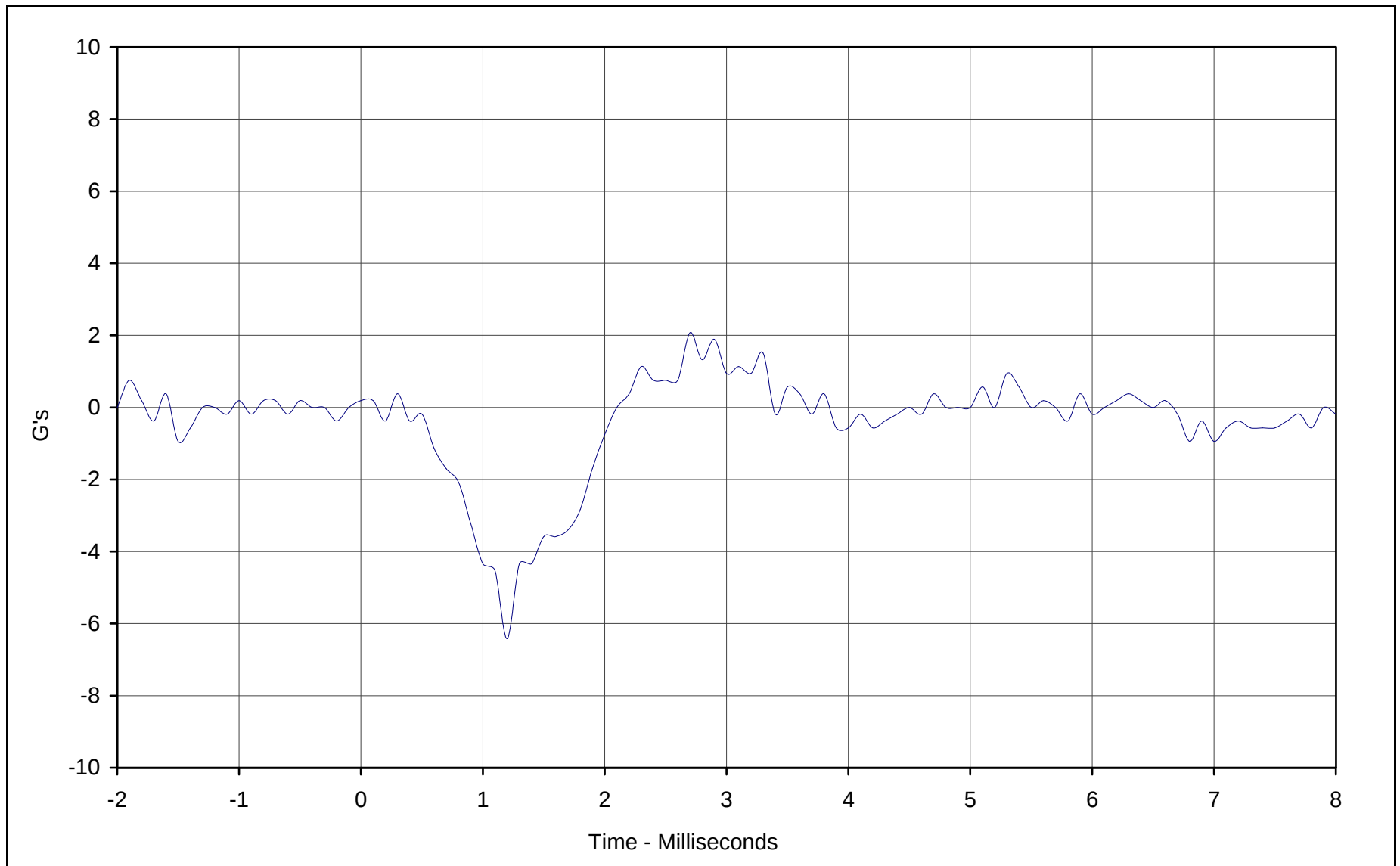


Curve Description: Head Resultant Acceleration
Maximum Value: 257.9 at 1.3 Milliseconds
Minimum Value: 1.1 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 2/8/01

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: SH12F



KAR21003-10



Curve Description: Head Y Axis Acceleration
Maximum Value: 2.1 at 2.7 Milliseconds
Minimum Value: -6.4 at 1.2 Milliseconds
SAE Filter Class: 1000
Date of Test: 2/8/01

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: SH12F





Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	905	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	520	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	360	Pass
Overall Test Results				Pass

Laboratory Technician

February 9, 2001

Test Date

Approved By

Date



Performance Verification Data Side Impact Dummy (SID) Thorax Lateral Impact

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: TI01E

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	42.6	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	42.9	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	21.3	Pass
Overall Test Results				Pass

Laboratory Technician

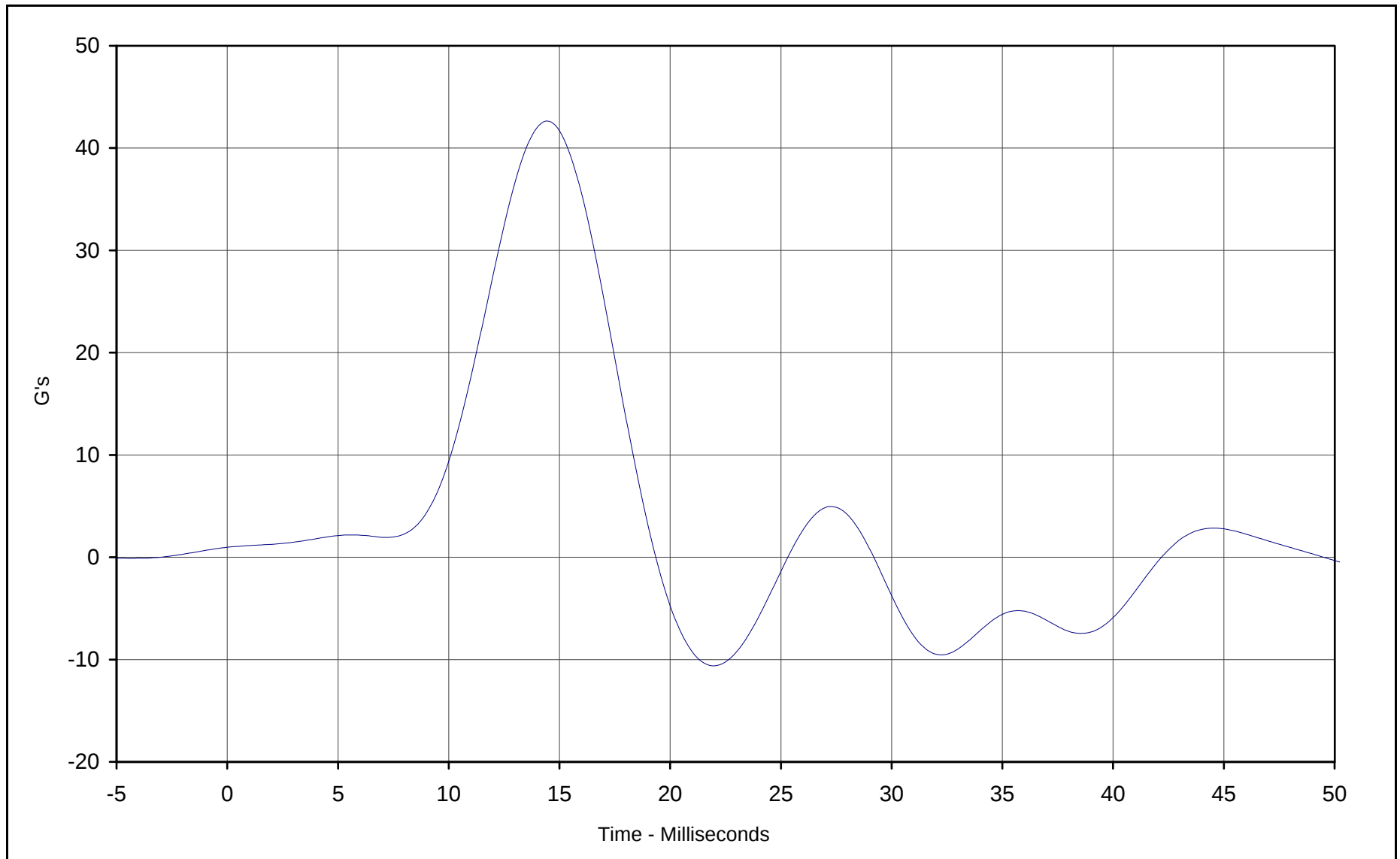
February 9, 2001

Test Date

Approved By

Date

C-39



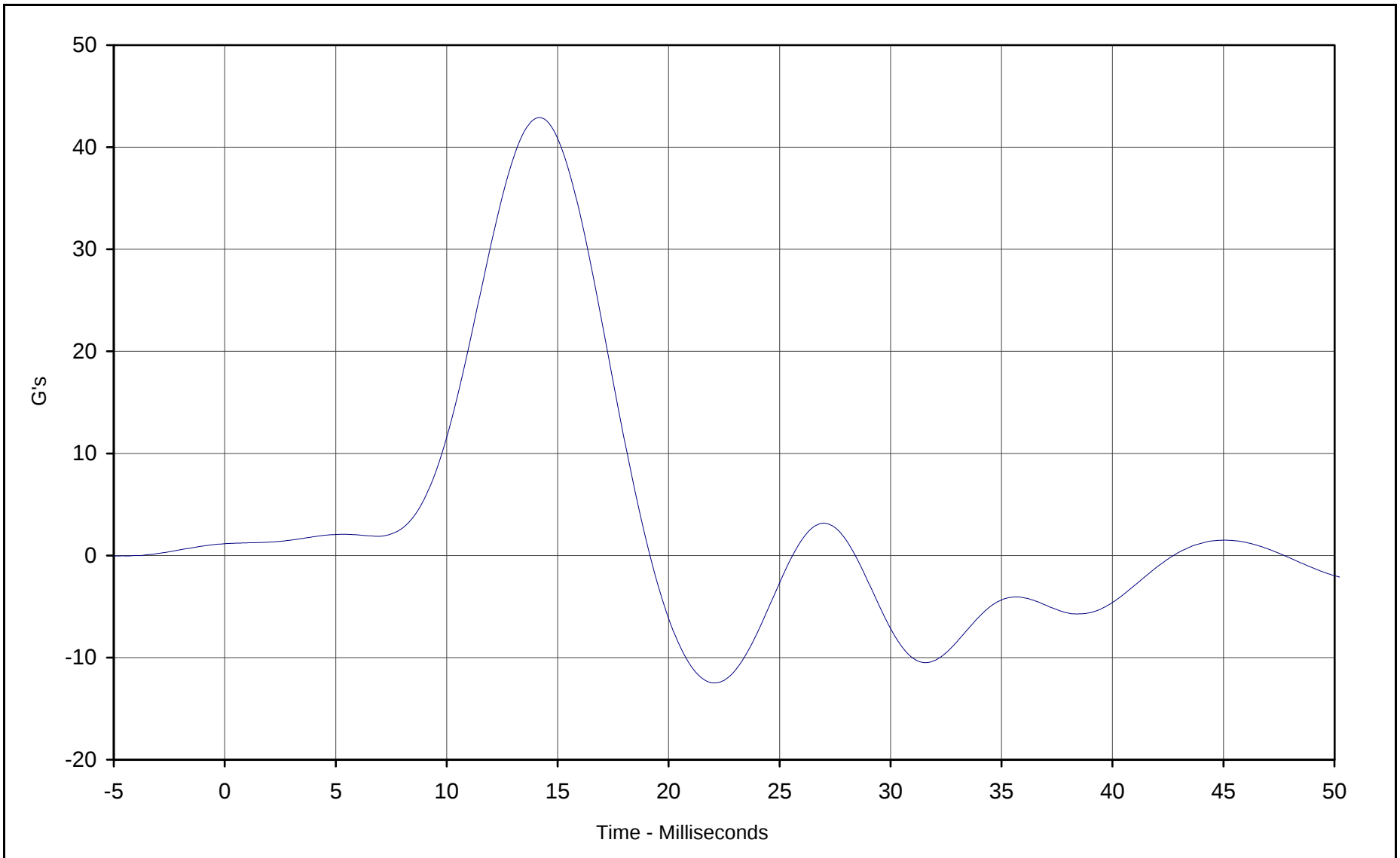
Curve Description: Left Upper Rib Y Acceleration
Maximum Value: 42.6 at 14.4 Milliseconds
Minimum Value: -10.6 at 22.0 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 2/9/01

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: TI01E



KAR21003-10

C-40



Curve Description: Left Lower Rib Y Acceleration

Maximum Value: 42.9 at 14.2 Milliseconds

Minimum Value: -12.5 at 22.1 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 2/9/01

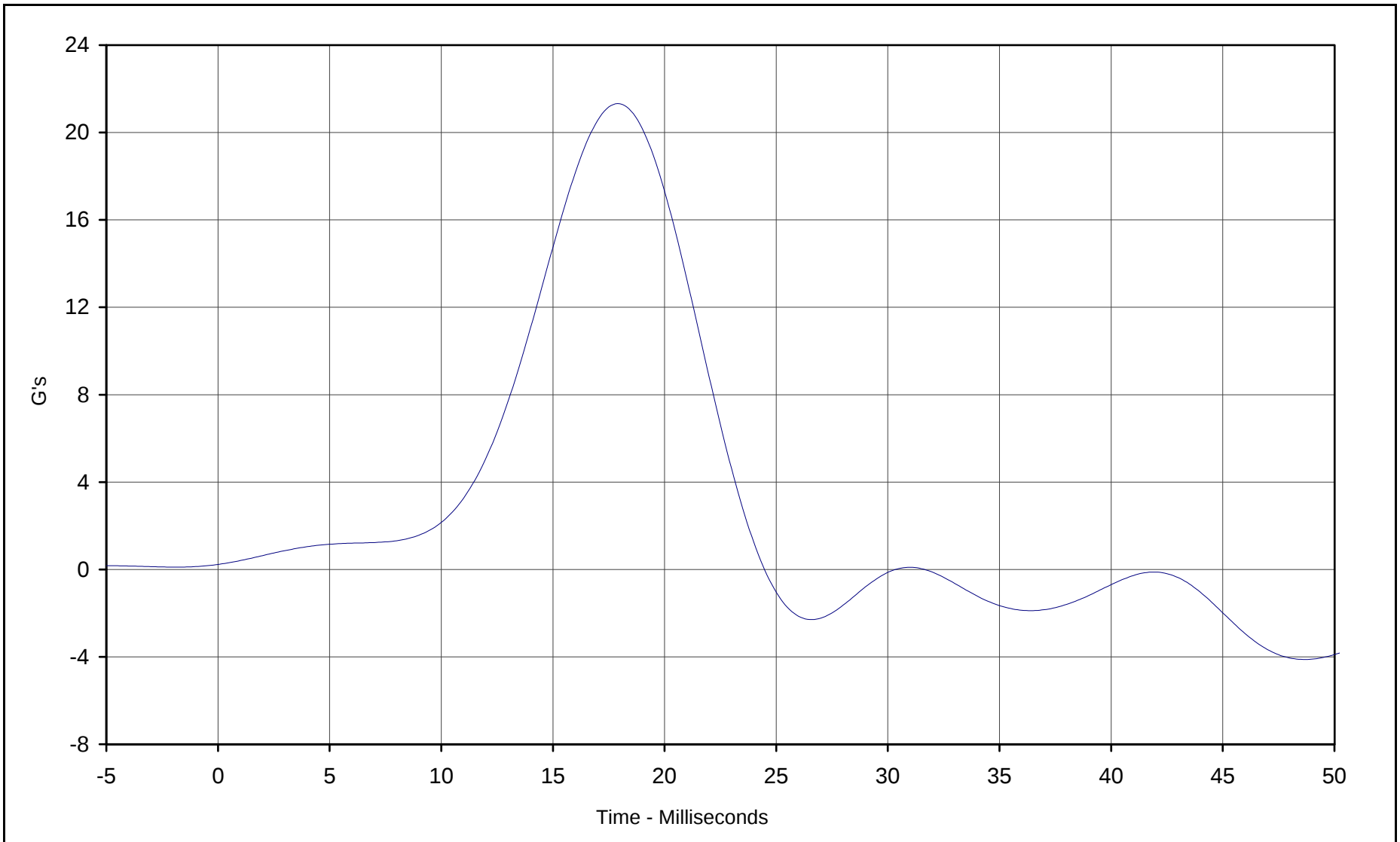
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 275 Test I.D.: TI01E



KAR21003-10

C-41



Curve Description: Lower Spine Y Acceleration
Maximum Value: 21.3 at 17.9 Milliseconds
Minimum Value: -4.1 at 48.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 2/9/01

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: TI01E



KAR21003-10



Performance Verification Data

Side Impact Dummy (SID)

Left Side Pelvis Lateral Impact

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: PI01E

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Pelvis Acceleration	G's	40.0 to 60.0	43.5	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	5.6	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

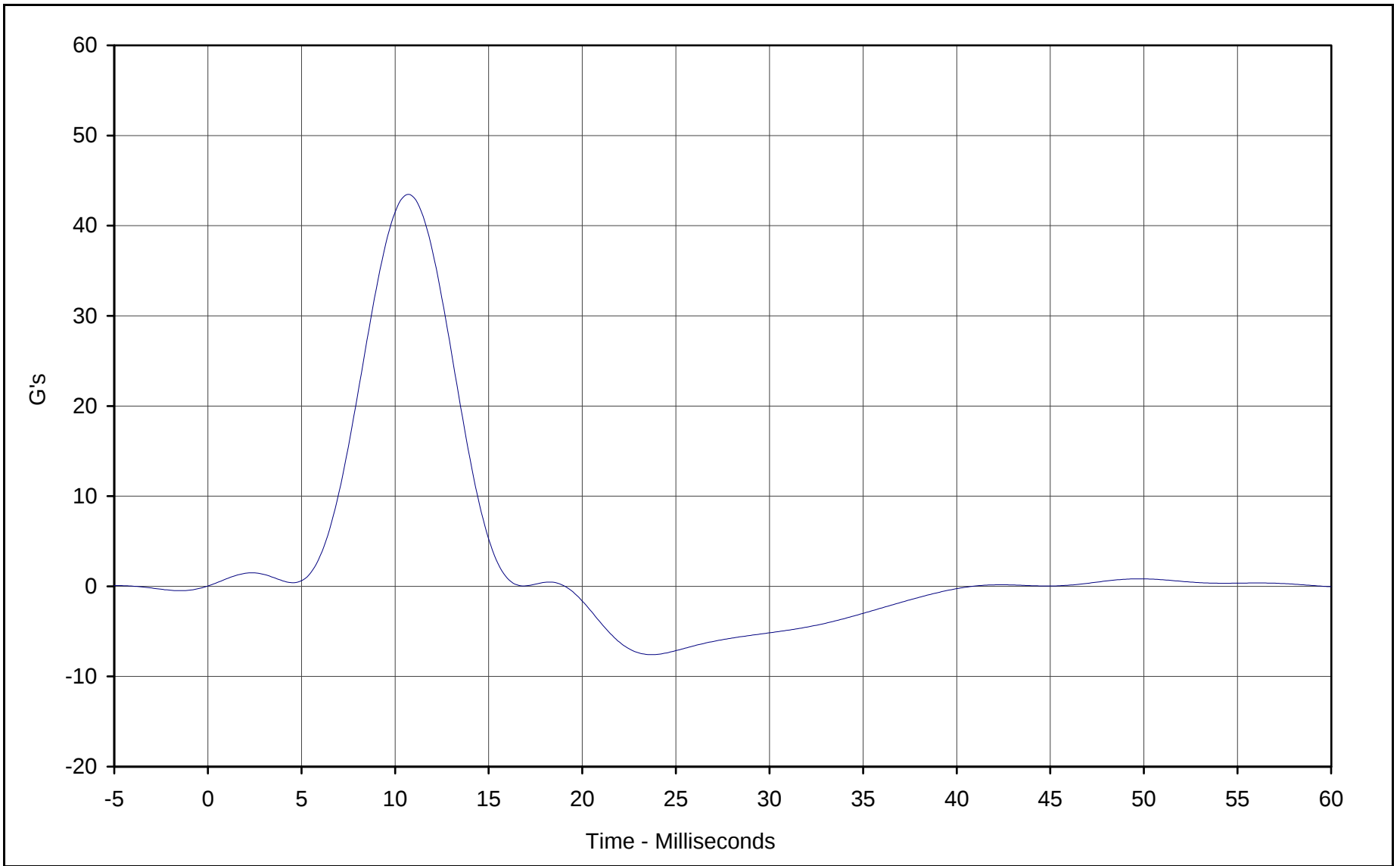
February 9, 2001

Test Date

Approved By

Date

C-43



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 43.5 at 10.7 Milliseconds
Minimum Value: -7.6 at 23.7 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 2/9/01

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 275 Test I.D.: PI01E



KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: AB12X

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	27.6	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	41.4	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	56.9	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	78.8	Pass
Overall Test Results				Pass

Laboratory Technician

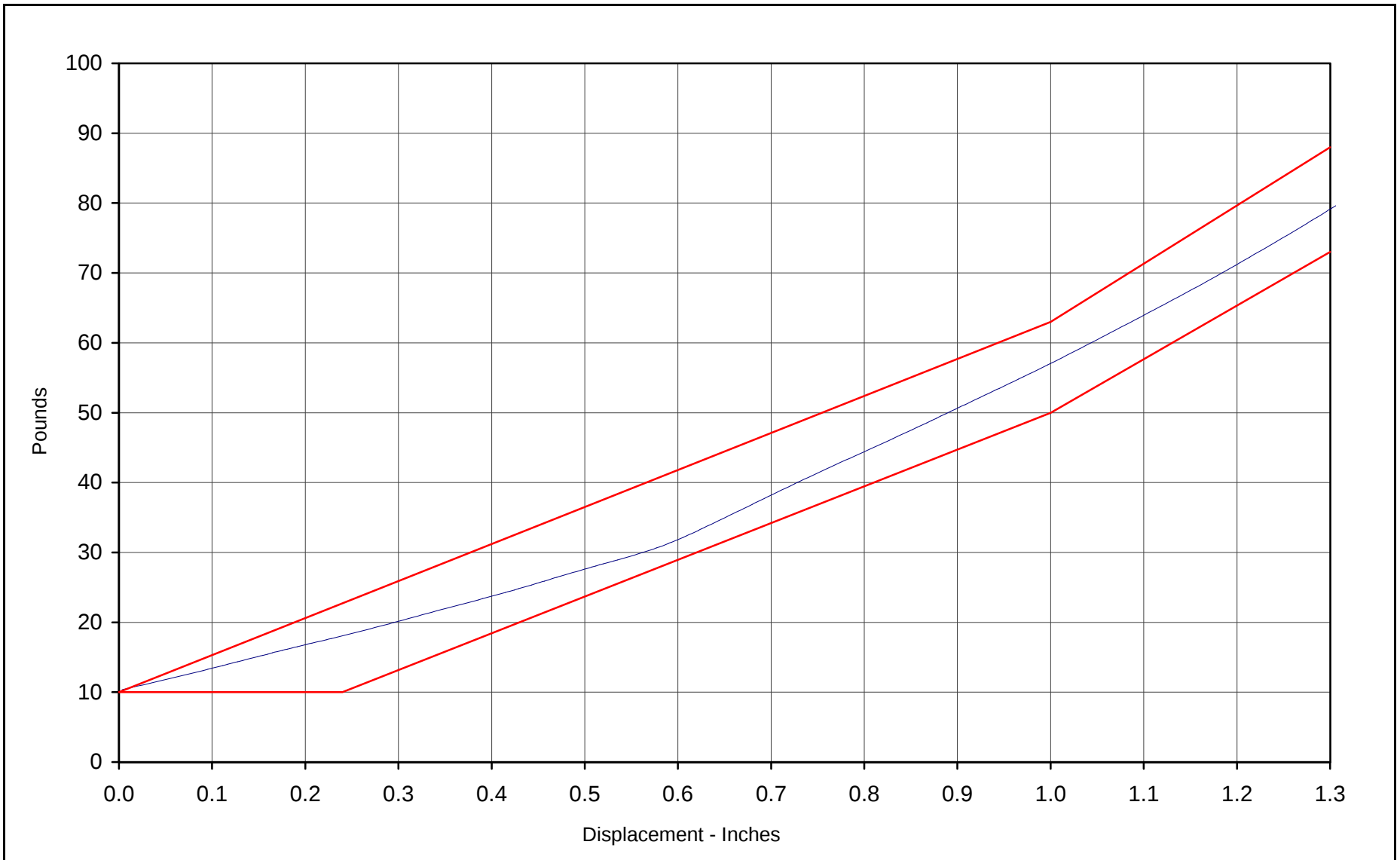
February 8, 2001

Test Date

Approved By

Date

C-45

Curve Description: Abdomen Force vs. DisplacementForce at 0.5 In.: 27.6 PoundsForce at 0.75 In.: 41.4 PoundsForce at 1.0 In.: 56.9 PoundsForce at 1.3 In.: 78.8 PoundsDate of Test: 2/8/01Test Program: SID Abdominal CompressionTest Information: SID S/N: 275 Test I.D.: AB12X

KAR21003-10



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: SH12H

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	247.7	Pass
Peak Lateral Acceleration	G's	≤10.0	3.4	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.1	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

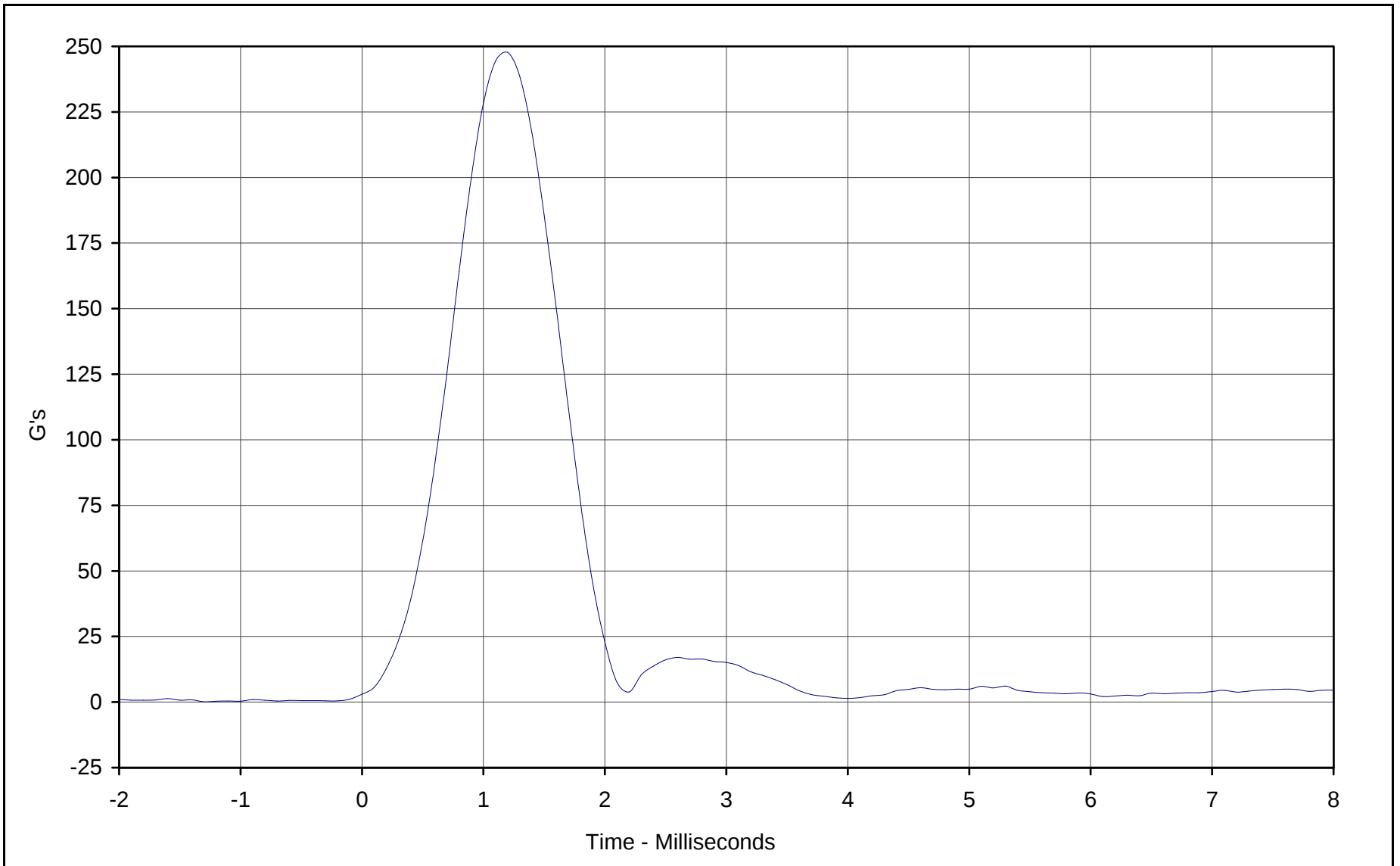
February 8, 2001

Test Date

Approved By

Date

C-47



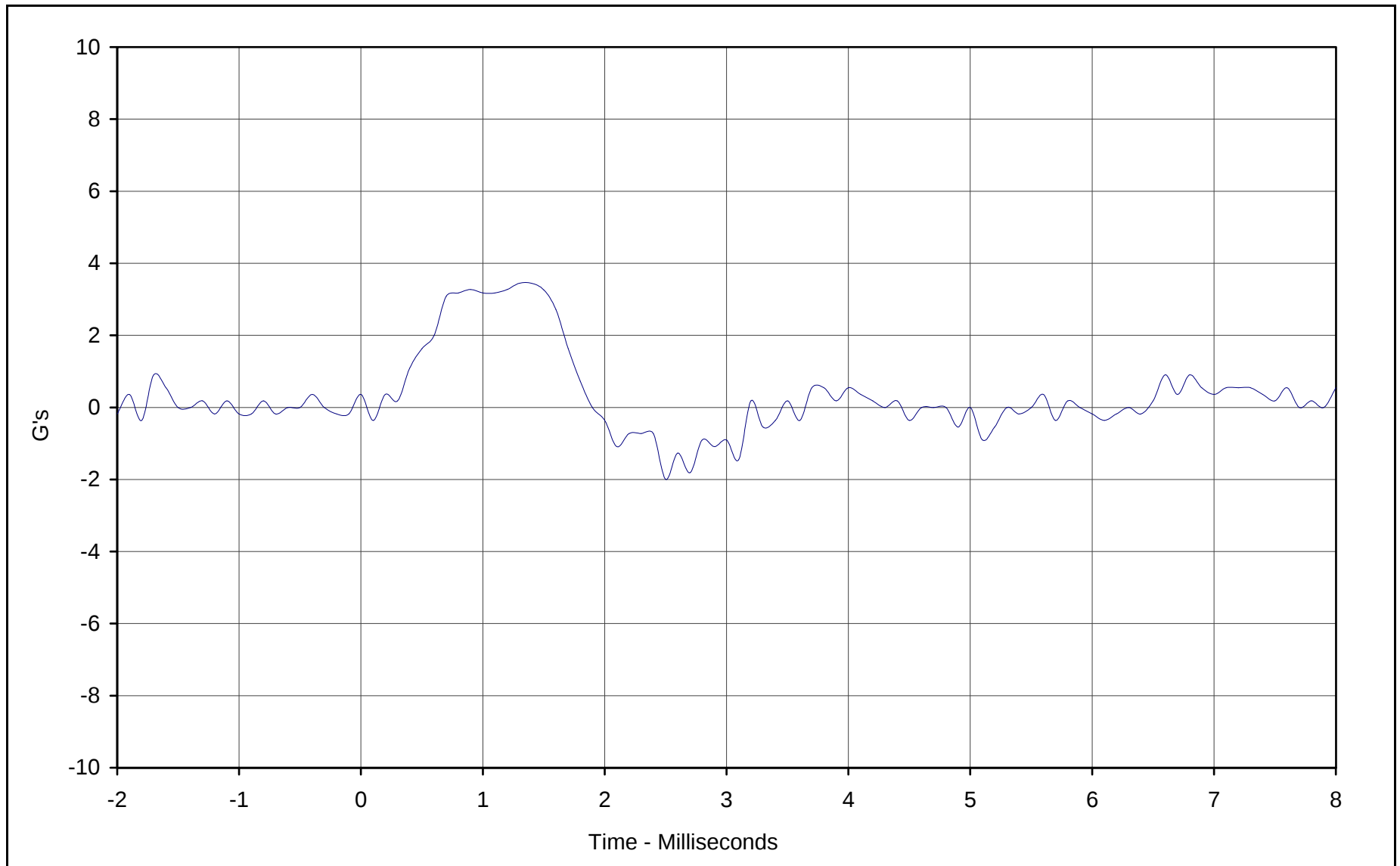
Curve Description: Head Resultant Acceleration
Maximum Value: 247.7 at 1.2 Milliseconds
Minimum Value: 1.4 at 4.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 2/8/01

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 275 Test I.D.: SH12H



KAR21003-10

C-48



Curve Description: Head Y Axis Acceleration

Maximum Value:	3.4	at	1.3	Milliseconds
Minimum Value:	-2.0	at	2.5	Milliseconds
SAE Filter Class:	1000			
Date of Test:	2/8/01			

Test Program: SID Head Drop Calibration

Test Information: SID S/N: 275 Test I.D.: SH12H



KAR21003-10

APPENDIX D
TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Driver S.I.D. Serial Number 275
02/01/01
2001 Nissan Pathfinder 4x4 SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
1	Head CG	X	KEAC069	Accel.,1/2 bridge	Endevco	7264-2000X	G
2	Head CG	Y	KEAC080	Accel.,1/2 bridge	Endevco	7264-2000Y	G
3	Head CG	Z	KEAC082	Accel.,1/2 bridge	Endevco	7264-2000Z	G
4	Upper Rib Primary	Y	KEAC066	Accel.,1/2 bridge	Endevco	7264-2000X	G
5	Lower Rib, Primary	Y	KEAC067	Accel.,1/2 bridge	Endevco	7264-2000Y	G
6	Lower Spine, Primary	Y	KEAC068	Accel.,1/2 bridge	Endevco	7264-2000Z	G
7	Pelvis, Primary	Y	KEAC079	Accel.,1/2 bridge	Endevco	7264-2000X	G
8	Upper Rib Redundant	Y	KEAC073	Accel.,1/2 bridge	Endevco	7264-2000X	G
9	Lower Rib, Redundant	Y	KEAC074	Accel.,1/2 bridge	Endevco	7264-2000Y	G
10	Lower Spine, Redundant	Y	KEAC075	Accel.,1/2 bridge	Endevco	7264-2000Z	G
11	Pelvis, Redundant	Y	KEAC081	Accel.,1/2 bridge	Endevco	7264-2000X	G
12	Thorax Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
13	Pelvis Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Passenger S.I.D. Serial Number 274
02/01/01
2001 Nissan Pathfinder 4x4 SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
14	Head CG	X	KEAC086	Accel.,1/2 bridge	Endevco	7264-2000X	G
15	Head CG	Y	KEAC087	Accel.,1/2 bridge	Endevco	7264-2000Y	G
16	Head CG	Z	KEAC088	Accel.,1/2 bridge	Endevco	7264-2000Z	G
17	Upper Rib Primary	Y	KEAC070	Accel.,1/2 bridge	Endevco	7264-2000X	G
18	Lower Rib, Primary	Y	KEAC071	Accel.,1/2 bridge	Endevco	7264-2000Y	G
19	Lower Spine, Primary	Y	KEAC072	Accel.,1/2 bridge	Endevco	7264-2000Z	G
20	Pelvis, Primary	Y	KEAC090	Accel.,Full bridge	Endevco	7264-2000X	G
21	Upper Rib Redundant	Y	KEAC076	Accel.,1/2 bridge	Endevco	7264-2000X	G
22	Lower Rib, Redundant	Y	KEAC077	Accel.,1/2 bridge	Endevco	7264-2000Y	G
23	Lower Spine, Redundant	Y	KEAC078	Accel.,1/2 bridge	Endevco	7264-2000Z	G
24	Pelvis, Redundant	Y	KEAC089	Accel.,1/2 bridge	Endevco	7264-2000X	G
25	Thorax Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
26	Pelvis Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers

02/01/01

2001 Nissan Pathfinder 4x4 SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
27	Right at Sill Front Seat	X	KETX2A	Accel., Triax	I.C. Sensor	3031-200	G
28	Right at Sill Front Seat	Y	KETX2B	Accel., Triax	I.C. Sensor	3031-200	G
29	Right at Sill Front Seat	Z	KETX2C	Accel., Triax	I.C. Sensor	3031-200	G
30	Right at Sill Rear Seat	X	KETX3A	Accel., Triax	I.C. Sensor	3031-500	G
31	Right at Sill Rear Seat	Y	KETX3B	Accel., Triax	I.C. Sensor	3031-500	G
32	Right at Sill Rear Seat	Z	KETX3C	Accel., Triax	I.C. Sensor	3031-500	G
33	Rear Floorpan Above Axle	X	KETX4A	Accel., Triax	I.C. Sensor	3031-500	G
34	Rear Floorpan Above Axle	Y	KETX4B	Accel., Triax	I.C. Sensor	3031-500	G
35	Rear Floorpan Above Axle	Z	KETX4C	Accel., Triax	I.C. Sensor	3031-500	G
36	Left Sill at Rear Door	Y	KEVA012	Accel., Vehicle block	I.C. Sensor	3031-500	G
37	Left Sill at Front Door	Y	KEVA001	Accel., Vehicle block	I.C. Sensor	3031-500	G
38	Left Front Door Centerline	Y	ICST004X	Accel., Triax	I.C. Sensor	3031-500	G
39	Rear Occupant Compartment	Y	KEVA006	Accel., Vehicle block	I.C. Sensor	3031-200	G
40	Left Front Door Mid-Rear	Y	ICST004Y	Accel., Triax	I.C. Sensor	3031-500	G
41	Left Front Door Upper Centerline	Y	ICST004Z	Accel., Triax	I.C. Sensor	3031-500	G
42	Rear Door Mid-Rear	Y	ICST005X	Accel., Triax	I.C. Sensor	3031-500	G
43	Rear Door Upper Centerline	Y	ICST005Y	Accel., Triax	I.C. Sensor	3031-500	G
44	B-Post Lower	Y	KEBX2A	Accel., Biax	I.C. Sensor	3031-500	G
45	B-Post Middle	Y	KEBX2B	Accel., Biax	I.C. Sensor	3031-500	G
46	A-Post Lower	Y	KEBX1A	Accel., Biax	I.C. Sensor	3031-200	G
47	A-Post Middle	Y	KEBX1B	Accel., Biax	I.C. Sensor	3031-500	G
48	Front Seat Track	Y	KEIC008Y	Single	I.C. Sensor	3031-500	G
49	Rear Seat Structure	Y	N/A	N/A	N/A	N/A	N/A
50	Vehicle CG	X	KETX2A	Accel., Triax	I.C. Sensor	3031-200	G
51	Vehicle CG	Y	KETX2B	Accel., Triax	I.C. Sensor	3031-200	G
52	Vehicle CG	Z	KETX2C	Accel., Triax	I.C. Sensor	3031-200	G

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Moving Deformable Barrier
02/01/01
2001 Nissan Pathfinder 4x4 SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
53	MDB CG	X	ICST001X	Accel., Triax	I.C. Sensor	3031-100	G
54	MDB CG	Y	ICST001Y	Accel., Triax	I.C. Sensor	3031-100	G
55	MDB CG	Z	ICST001Z	Accel., Triax	I.C. Sensor	3031-100	G
56	MDB Rear Centerline	X	ICST002X	Accel., Biax	I.C. Sensor	3031-100	G
57	MDB Rear Centerline	Y	ICST002Y	Accel., Biax	I.C. Sensor	3031-100	G
58	Right Bumper Contact	N/A	T0	Contact Switch	Tapeswitch	40 oz. Grey	%