

**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**Mitsubishi Motor Corporation
2001 Mitsubishi Eclipse 3 door
NHTSA No.: MI0001**

**PREPARED BY:
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July 19, 2001

FINAL REPORT

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16. Abstract A 55/28 km/h 90° Moving Deformable Barrier NCAP side impact was conducted on the subject 2001 Mitsubishi Eclipse 3 door to obtain new car assessment and research data indicant of FMVSS No. 214D performance. The test was conducted at MGA Research Corporation, in Burlington, Wisconsin, on July 19, 2001. The impact velocity of the Moving Deformable Barrier (MDB) was 62.1kph, and the ambient temperature at the struck side (driver's) of the vehicle was 21°C. The target vehicle's maximum post test static crush was 270 mm at level 2 ½. The test vehicle's occupant performance is as follows: <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>DRIVER</u></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) Accel., g</td> <td style="text-align: center;">52.3</td> </tr> <tr> <td>Left Lower Rib (LLR) Accel., g</td> <td style="text-align: center;">51.5</td> </tr> <tr> <td>Lower Spine (T₁₂) Accel., g</td> <td style="text-align: center;">60.4</td> </tr> <tr> <td>Thoracic Trauma Index (TTI)</td> <td style="text-align: center;">56</td> </tr> <tr> <td>Pelvis (PEV) Accel., g</td> <td style="text-align: center;">70.7</td> </tr> <tr> <td>HIC</td> <td style="text-align: center;">426</td> </tr> </tbody> </table> The doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.							<u>DRIVER</u>	Left Upper Rib (LUR) Accel., g	52.3	Left Lower Rib (LLR) Accel., g	51.5	Lower Spine (T ₁₂) Accel., g	60.4	Thoracic Trauma Index (TTI)	56	Pelvis (PEV) Accel., g	70.7	HIC	426
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SECTION 1
PURPOSE AND TEST PROCEDURE

1.1 PURPOSE

This side impact test is conducted as part of the FY' 2001 NCAP Side Impact program sponsored by the National Highway Traffic Safety Administration (NHTSA). The purpose of this test was to evaluate side impact protection in a 2001 Mitsubishi Eclipse 2 door manufactured by Mitsubishi Motor Corporation.

1.2 TEST PROCEDURE

The side impact test was conducted in accordance with the New Car Assessment Program Side Impact Testing Procedure dated October 1996 and the corresponding MGA Research Corporation Test Procedure MGA-NHTSA5. The procedures for receiving, inspection, testing, and reporting of test results are described in the test procedures and are not repeated in this report.

MGA does not endorse or certify products. The manufacturer's name appears solely for identification purposes.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

2.1 SUMMARY OF SIDE IMPACT TEST

A model year 2001 Mitsubishi Eclipse 3 door 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 62.1 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 1636 kg and the test weight of the MDB was 1362 kg. The test was conducted at MGA Research Corporation in Burlington, Wisconsin, on July 19, 2001.

One (1) real-time motion picture camera and nine (9) high-speed motion picture cameras were used to document the impact event. Camera locations and pertinent camera information are documented in the data sheets. Pre- and post-test photographs of the vehicle and Side Impact Dummies (SID's) can be found in Appendix A. Two 50th percentile adult male SID's were placed in the driver and left rear passenger designated seating positions according to instructions specified in the OVSC Side Impact Laboratory Test Procedure dated August 2, 1999. Each SID was instrumented with 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)
- Driver Head Center of Gravity (CG) tri-axial accelerometers (X, Y, and Z axes)
- Passenger Head was removed for Dummy Positioning

The test vehicle was instrumented with twenty (20) structural accelerometers and the MDB was instrumented with five (5) accelerometers and two (2) contact switches on the bumper to compare left side to right side bumper impact timing. All data channels were recorded with a fully self contained on-board EME Data Acquisition System. 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 270 mm at level 2 ½, 1470 mm rearward of the left vertical impact point. The driver and passenger SID's, Serial Nos. 269 and 270 respectively, were calibrated just prior to this test. The SID's injury criteria is summarized as follows:

Measurements	Units	Driver
Thoracic Trauma Index (TTI)	G's	56
Peak Pelvic G's (PEV)	G's	70.7
Head Injury Criteria (HIC)	none	426

Test 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.

TEST NOTES

The Rear Seat Track accelerometer was not used for this test:

The rear hatch opened during the impact event. In a subsequent investigation, the test engineers decided the rear hatch was shut on the secondary latch and not on the primary latch.

The data from the left rear dummy is for informational purposes only.
The dummy was not able to achieve the proper positioning, and
the head was removed to place it in the vehicle.

SECTION 3

SIDE IMPACT DUMMY (SID) AND VEHICLE TEST DATA

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	English 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 Pressure	lbf/in ²	kPa	7.0
Volume	Liquid	gal	liter	3.785
Temperature	General Use	°F	°C	$=(\text{tf} - 32)/1.8$
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/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

TEST VEHICLE INFORMATION

Make	Mitsubishi
Model	Eclipse
Body Style	2 door coupe
NHTSA No.	N/A
VIN	4A3AC54H81E180287
Color	Patriot Red Pearl
Odometer Reading (mile)	110
Transmission	5 speed Manual
Final Drive	front
Number of Cylinders	6
Engine Displacement (L)	3.0
Engine Placement	lateral

TEST VEHICLE OPTIONS

Front Airbags	yes
Side Airbags	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	yes
Anti-lock Brakes	no
AM/FM/Cassette	yes
Anti-theft System	no
Cruise Control	yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Mitsubishi Motor Corp.
Date of Manufacture	3/01

GVWR (kg)	1810
GAWR Front (kg)	1065
GAWR Rear (kg)	795

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Cold Pressure (kPa)	220	200
Recommend Tire Size	P215/50R17-90V	P215/50R17-90V
Tire Size on Vehicle	P215/50R17-90V	P215/50R17-90V
Tire Manufacturer	Goodyear	Goodyear

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bench	N/A	
Number of Occupants	2	2	N/A	4
Capacity Wt. (VCW) (kg)				300
Cargo Weight (RCLW) (kg)				28

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

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door
 Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	452.7	270.3		500.8	334.8	
Right	kg	465.8	266.7		488.1	312.5	
Ratio	%	63.1	36.9		60.4	39.6	
Totals	kg	918.5	537.0	1455.5	988.9	647.3	1636.2

TARGET TEST WEIGHT CALCULATION*

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1455.5
Weight of 2 P572F Side Impact Dummies	kg	161.5
Rated Cargo/Luggage Weight (RCLW)	kg	28.0
Calculated Vehicle Target Weight (TVTW)	kg	1645.0

*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	700	704	717	725	948
As Tested	mm	688	696	694	703	1017
Fully Loaded	mm	688	699	687	703	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2570
Total Vehicle Length at Left Side	mm	3797
Total Vehicle Length at Centerline	mm	4433
Total Vehicle Length at Right Side	mm	3797
Total Vehicle Width	mm	1756
Weight of Ballast in Cargo Area	kg	0
Amount of Stoddard Solvent in Fuel Tank	liters	57

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Target Impact Point Aft of Front Axle	mm	345
Actual Impact Point Aft of Front Axle	mm	321

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

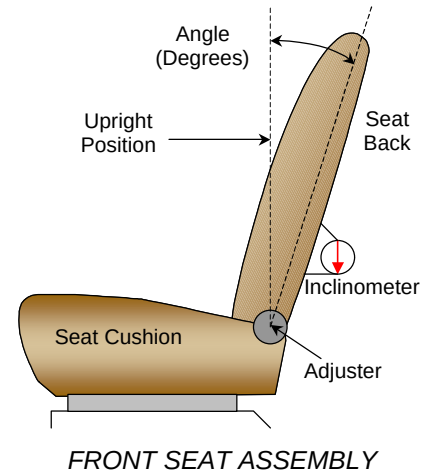
Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

NORMAL DESIGN RIDING POSITION

The driver's seat back is positioned to the manufacturer's designated angle. The procedure for the seat is as follows: remove the seat back to expose the frame of the seat at the outboard edge, approximately 305 mm above the pivot point, the inclinometer is firmly placed against the flat portion of the frame surface and the seat back is adjusted to the manufacturer's designated angle. The rear passenger seat is fixed; no adjustments can be made.



Driver seat back angle: 34.8

Passenger seat back angle: Non-adjustable

SEAT FORE/AFT POSITIONS

The driver's seat is electronically operated and the rear passenger seat has no adjustments. The fore/aft is set to the middle position for the driver's seat. The first detent is numbered "1".

Driver seat fore/aft total travel: 222 mm

Rear passenger seat fore/aft total travel: Non-adjustable

Driver seat fore/aft position: 111 mm

Rear passenger seat fore/aft position: Non-adjustable

SEAT BELT UPPER ANCHORAGE

The test vehicle is equipped with adjustable "D" ring anchorage for the driver's seat position. There are 5 positions or detents, with the uppermost position numbered "1". The driver's "D" ring anchorage is placed in position 4.

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

FUEL TANK CAPACITY DATA

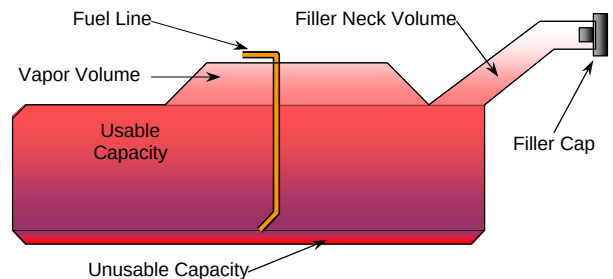
The "Usable Capacity" of the standard equipment fuel tank is: 62 liters

The "Usable Capacity" of any optional equipment fuel tank is: 0 liters

92-94% of "Usable Capacity" for certification to FMVSS 301 requirement: 57 to 58 liters

Actual amount of Stoddard solvent added to vehicle for certification test: 57 liters

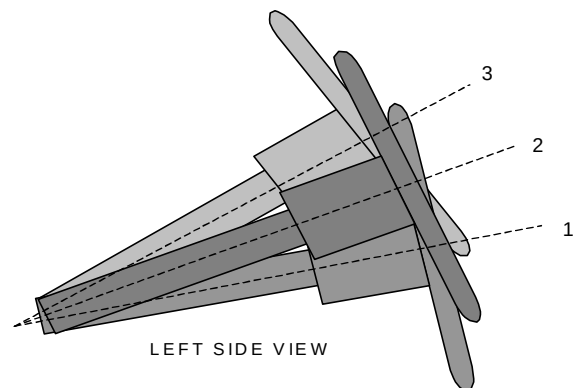
The test vehicle is equipped with an electric fuel pump.
The fuel pump will operate only if the engine remains running. The fuel pump turns off when the engine stops.
The fuel filler door is located on the right rear fender.



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. A square is placed across the rim of the steering wheel, and inclinometer is placed onto the square and the angle is measured. The tested vehicle has a fixed steering column, no adjustment can be made.



STEERING COLUMN ASSEMBLY

Lowermost, position 1: 11.9°

Geometric center, position 2: 17.9°

Uppermost, position 3: 23.9°

DATA SHEET NO. 2**TEST VEHICLE SUMMARY OF RESULTS**Test Vehicle: 2001/Mitsubishi/Eclipse/3 doorTest Program: Optional NCAP Side ImpactTest Date: July 19, 2001**TEST VEHICLE WEIGHTS**

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	452.7	270.3		500.8	334.8	
Right	kg	465.8	266.7		488.1	312.5	
Weight Ratio	%	0.554817	0.445183		0.604388	0.395612	
Totals	kg	918.5	737	1655.5	988.9	647.3	1636.2

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	140	291
Level 2	Occupant H-Point	mm	226	391
Level 3	Mid Door	mm	264	567
Level 4	Window Sill	mm	232	854
Level 5	Window Top	mm	66	1023
N/A	Maximum Penetration	mm	270	479

INSTRUMENTATION

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

DATA SHEET NO. 3**MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS**Test Vehicle: 2001/Mitsubishi/Eclipse/3 doorTest Program: Optional NCAP Side ImpactTest Date: July 19, 2001**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	395.1	293.8	
Right	kg	385.7	287.4	
Ratio	%	57.3	42.7	
Totals	kg	780.8	581.2	1362.0

SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	62.1
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	61.8
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	89.7

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

Vertical Location			From Centerline		Max. Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	700	Left	208
B	Top of Bumper	533	800	Left	203
C	Mid Level	686	800	Left	198
D	Top of Stack	813	800	Left	195

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	2
High Speed Cameras	2

DATA SHEET NO. 4**POST TEST OBSERVATIONS**Test Vehicle: 2001/Mitsubishi/Eclipse/3 doorTest Program: Optional NCAP Side ImpactTest Date: July 19, 2001**TEST DUMMY INFORMATION AND CONTACT POINTS**

Description	Front Seat SID	Rear Seat SID
Dummy Type / Serial No.	SID/269	SID/270
Head Contact	window	N/A
Upper Torso Contact	window sill / air bag	side interior panel
Lower Torso Contact	air bag	side arm rest
Left Knee Contact	mid door	b-post trim
Right Knee Contact	left knee	left knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	remained closed	N/A
Right Side Door Opening	remained closed	N/A
Seat Movement	none	none
Seat Back Failure	none	none

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	no separation
Sill Separation	no separation
Windshield Damage	none
Window Damage	left front and left rear
Other Notable Effects	rear hatch opened during impact

AIRBAG DEPLOYMENT

	Driver	Front Passenger	Rear Passenger
Front	no	no	none
Side	yes	no	none

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	24 forward
Vertical Offset	mm	+/-20	0

Note: Hatchback door opened during impact. See page 3 for details.

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5

SID INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

THORAX AND PELVIS PEAK ACCELERATIONS (FIR 100 Filtered)

Location	Axis	Units	Driver				Rear Passenger*			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	52.3	28	12.7	75	59.4	46	8.6	97
Upper Rib (LUR) (R)	Y	G's	50.8	28	13.9	75	59.6	46	8.8	97
Lower Rib (LLR)	Y	G's	51.5	30	10.4	15	76.9	47	13.4	97
Lower Rib (LLR) (R)	Y	G's	50.4	30	9.7	87	77.0	47	15.5	97
Lower Spine (T ₁₂)	Y	G's	60.4	34	14.4	67	80.8	51	7.5	111
Lower Spine (T ₁₂) (R)	Y	G's	59.3	34	15.8	66	79.8	51	7.4	110
Pelvis (PEV)	Y	G's	70.7	26	13.8	56	66.7	47	4.7	141
Pelvis (PEV) (R)	Y	G's	70.4	26	13.3	53	65.1	46	4.5	141

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

Location	Driver				Rear Passenger*			
	LUR	T ₁₂	TTI(g)	PEV(g)	LLR	T ₁₂	TTI(g)	PEV(g)
Rib, Spine, and Pelvis	52.3	60.4	56.4	70.7	76.9	80.8	78.4	66.7
Rib, Spine, and Pelvis (R)	50.8	59.3	55.1	70.4	77.0	79.8	78.4	65.1

HEAD CG PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	3.2	158	25.0	67	N/A	N/A	N/A	N/A
Head CG	Y	G's	65.7	66	5.9	154	N/A	N/A	N/A	N/A
Head CG	Z	G's	52.4	54	6.9	44	N/A	N/A	N/A	N/A
Head CG Resultant		G's	70.8	66			N/A	N/A		

HEAD INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Rear Passenger			
	HIC	T ¹	T ²	Avg G's	HIC	T ¹	T ²	Avg G's
Head CG	426	41.2	74.0	44.2	N/A	N/A	N/A	N/A

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

* The data from the left rear dummy is for informational purposes only. The dummy was not able to achieve the proper positioning and the head was removed to place it in the vehicle.

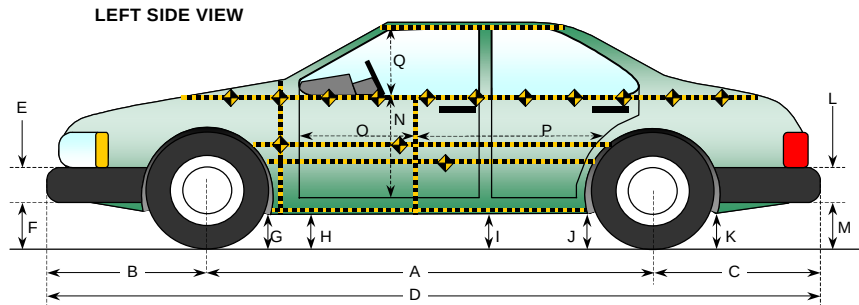
DATA SHEET NO. 6

VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



All Measurements in mm

Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2570	2525	45
B	Front Axle to FSOV	925	925	0
C	Rear Axle to RSOV	938	940	2
D	Total Length at Centerline	4433	4390	43
E	Front Bumper Thickness	129	129	0
F	Front Bumper Bottom to Ground	380	393	13
G	Sill Height at Front Wheel Well	154	161	7
H	Sill Height at Front Door Leading Edge	157	159	2
I	Sill Height at "B" Pillar	150	130	20
J1	Sill Height at Rear Wheel Well	155	144	11
J2	Pinch Weld Height at Rear Wheel Well	155	142	13
K	Sill Height Aft of Rear Wheel Well	205	200	5
L	Rear Bumper Thickness	123	123	0
M	Rear Bumper Bottom to Ground	377	385	8
N	Sill Height to Window Bottom Sill	615	562	53
O	Front Door Leading Edge to Impact CL	693	684	9
P	Rear Door Trailing Edge to Impact CL	631	634	3
Q	Front Window Opening	373	375	2
R	Right Side Length	3797	3804	7
S	Left Side Length	3797	3737	60
T	Vehicle Width at "B" Post	1756	1534	222

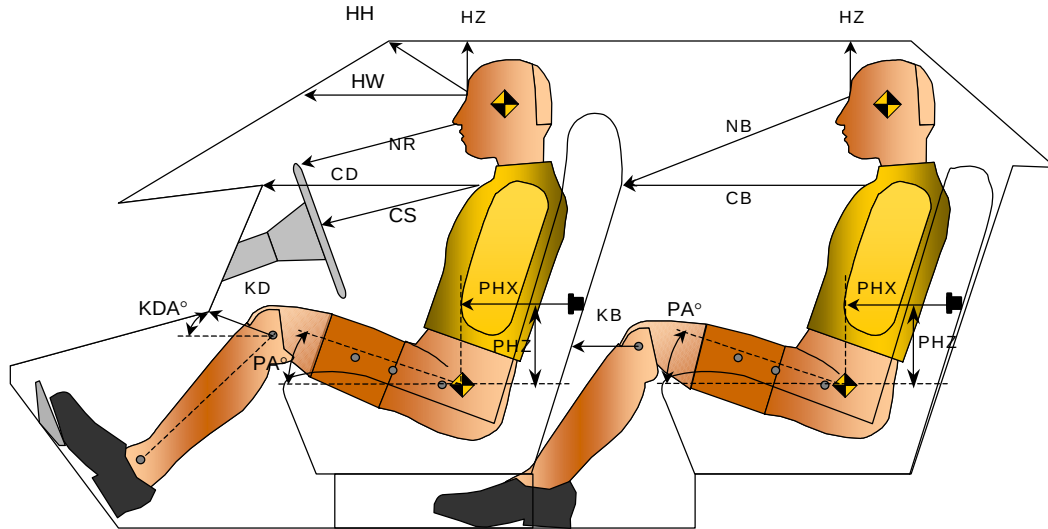
DATA SHEET NO. 7

SID LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



Driver Code	Pass. Code	Measurement Description	Driver 269		Passenger 270	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	449			
HW		Head to Windshield	713			
HZ	HZ	Head to Roof	128		* N/A	
NR	NB	Nose to Rim/Nose to Seatback	419		**547	
CD	CB	Chest to Dash or Seatback	580		376	
CS		Chest to Steering Wheel	310			
KDL	KBL	Left Knee to Dash or Seatback	219	0	98	0
KDR	KBR	Right Knee to Dash or Seatback	205	0	100	0
PA	PA	Pelvic Angle		23.2		24.8
PHX	PHX	H-Point to Striker (X-Axis)	403		451	
PHZ	PHZ	H-Point to Striker (Z-Axis)	254		215	

*Note: Rear passenger head removed for test.

**Center of neck at head attachment point.

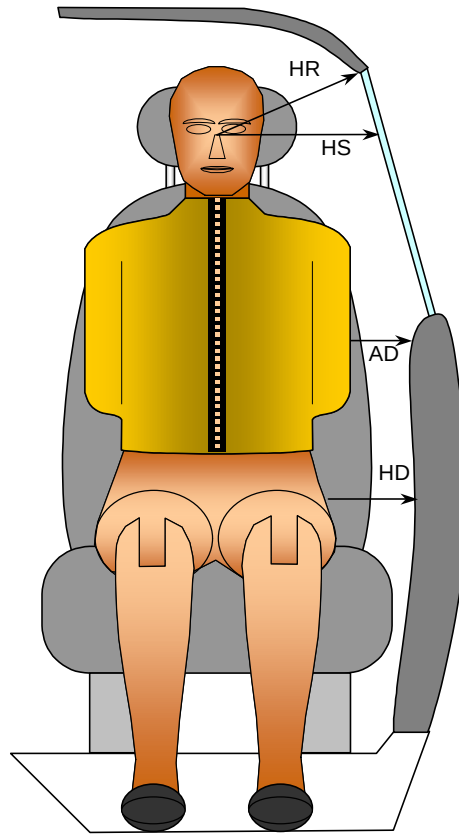
DATA SHEET NO. 8

SID LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



FRONT VIEW OF DUMMY

Code	Measurement Description	Units	Driver 269	Passenger 270
HR	Head to Side Header	mm	229	*N/A
HS	Head to Side Window	mm	306	**246
AD	Arm to Door	mm	80	79
HD	H-Point to Door	mm	118	110

*Note: Rear passenger head removed for test.

**Center of neck at head attachment point.

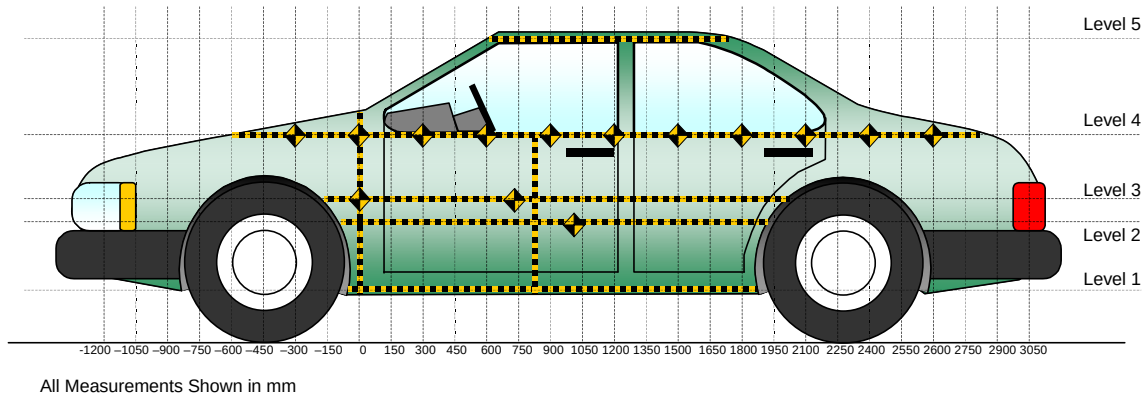
DATA SHEET NO. 9

VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.

Measurements along the vertical 800 mm.

All measurements below in mm.

Level	Measurement Description	Height Above Ground
5	Window	1023
4	Window Sill	854
3	Mid Door	567
2	Occupant H-Point	391
1	Sill Top	291

DATA SHEET NO. 10

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900			435					446					11		
-750			398	460				413	481				15	21	
-600				440					461					21	
-450				419					450					31	
-300				415					451					36	
-150				425					468					43	
0			375	432				497	488				122	56	
150	412	392	375	434		479	514	515	500		67	122	140	66	
300	410	390	374	432		510	552	546	532		100	162	172	100	
450	409	390	373	435		513	585	578	555		104	195	205	120	
600	408	388	371	436		523	591	595	578		115	203	224	142	
750	406	387	371	440	670	535	602	608	590	712	129	215	237	150	42
900	404	387	370	441	672	541	607	615	607	715	137	220	245	166	43
1050	404	386	370	444	672	538	610	610	622	725	134	224	240	178	53
1200	403	385	370	446	674	543	611	608	640	735	140	226	238	194	61
1350	384	385	370	450	676	446	611	610	655	742	62	226	240	205	66
1500	381	380	369	456	678	438	603	626	688	726	57	223	257	232	48
1650	379	380	369	467	675	427	591	633	656	702	48	211	264	189	27
1800	375	381	369	470		417	513	588	615		42	132	219	145	
1950			369	480				478	570				109	90	
2100				490					533					43	
2250				502					529					27	
2400				520					542					22	
2550				543					560					17	
2700				562					579					17	
2850				590					603					13	
3000															

Reference plane is parallel to test vehicle longitudinal centerline

Given dimensions = Reference plane to car body

DATA SHEET NO. 10...(continued)

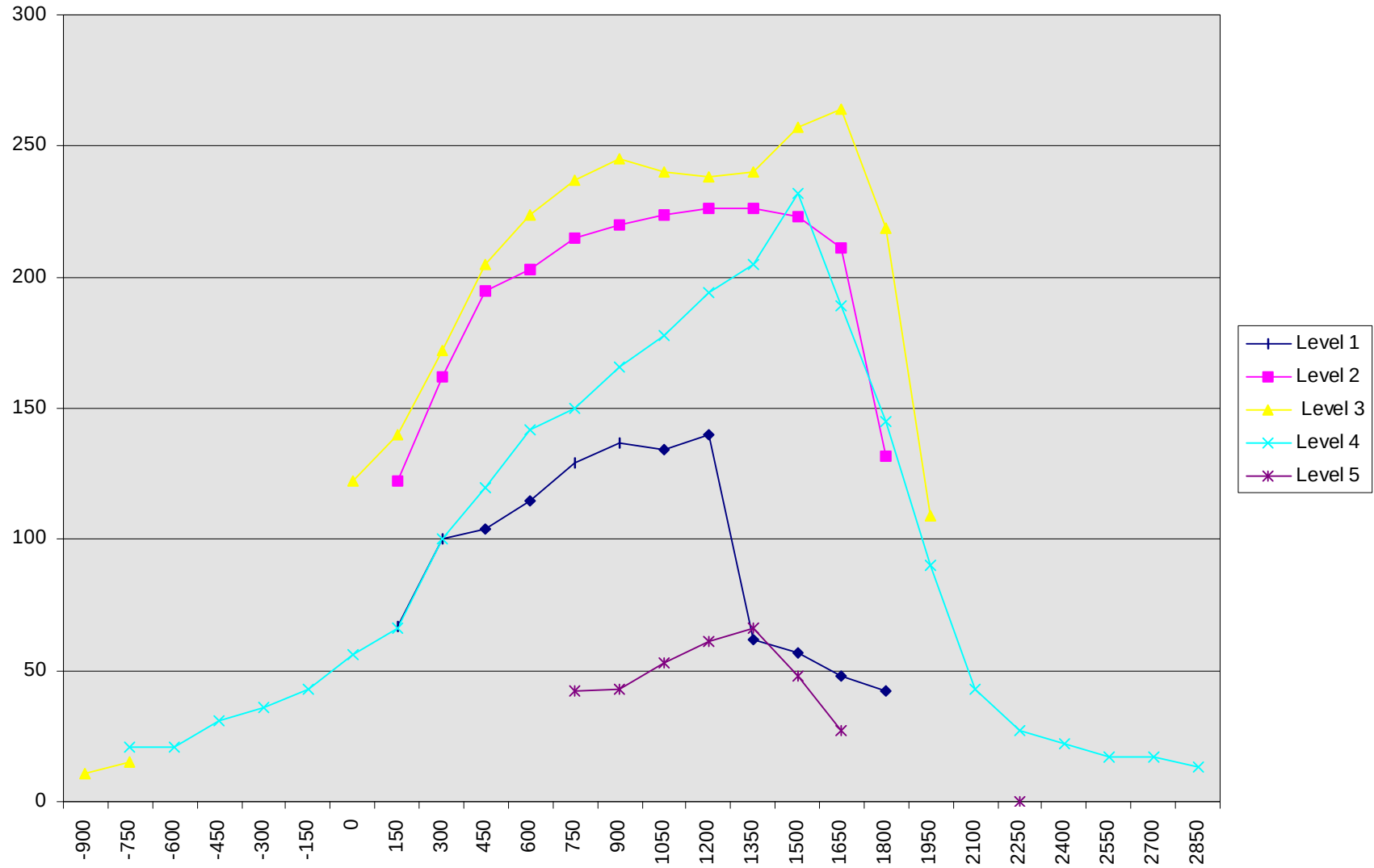
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

6T



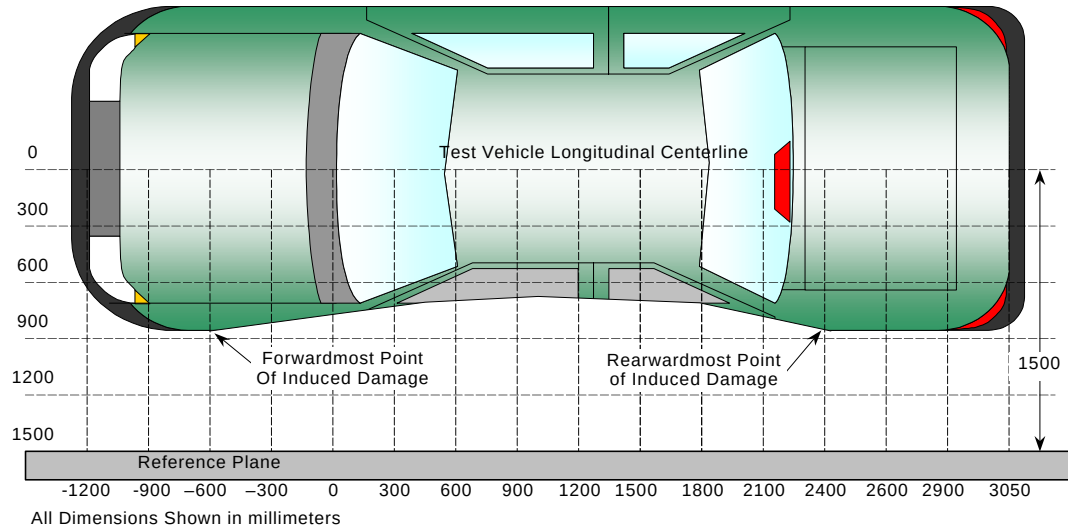
DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



Damage Profile Distances

DPD	Distance from Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	-750 mm	4	460	481	21
2	-330 mm	3 ½	375	482	107
3	90 mm	2 ½	375	633	258
4	1360 mm	2 ½	385	655	270
5	2142 mm	4	485	526	41
6	2850 mm	4	590	603	13

Reference plane is parallel to test vehicle longitudinal centerline
 Given dimensions = Reference plane to car body

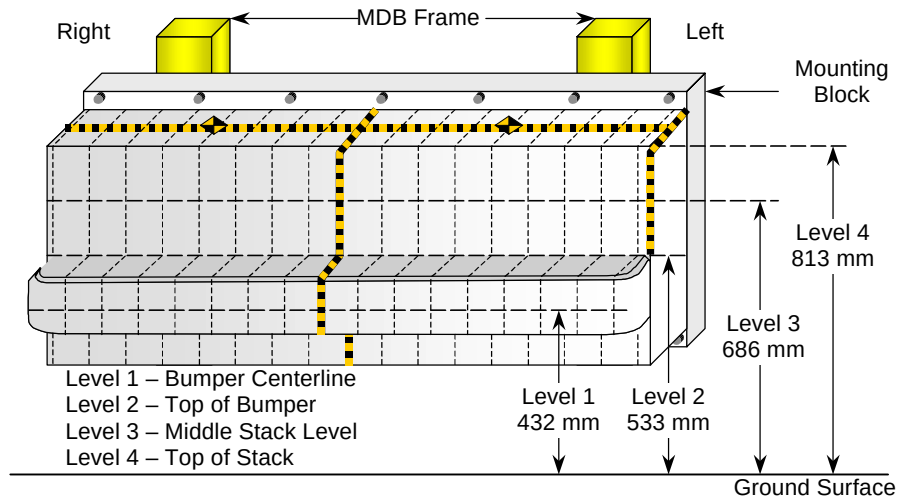
DATA SHEET NO. 12

DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



DEFORMABLE BARRIER STATIC CRUSH

Stack Level	Distance Right of Center								C _L	Distance Left of Center							
	800	700	600	500	400	300	200	100		100	200	300	400	500	600	700	800
1	173	165	160	155	152	145	138	136	134	139	140	146	154	167	183	208	201
2	91	87	83	84	79	72	71	76	78	83	87	95	106	126	149	176	203
3	47	35	45	36	23	19	22	24	27	36	50	72	96	123	153	187	198
4	48	14	4	14	11	13	18	24	33	43	56	71	89	112	141	175	195

All Dimensions in mm

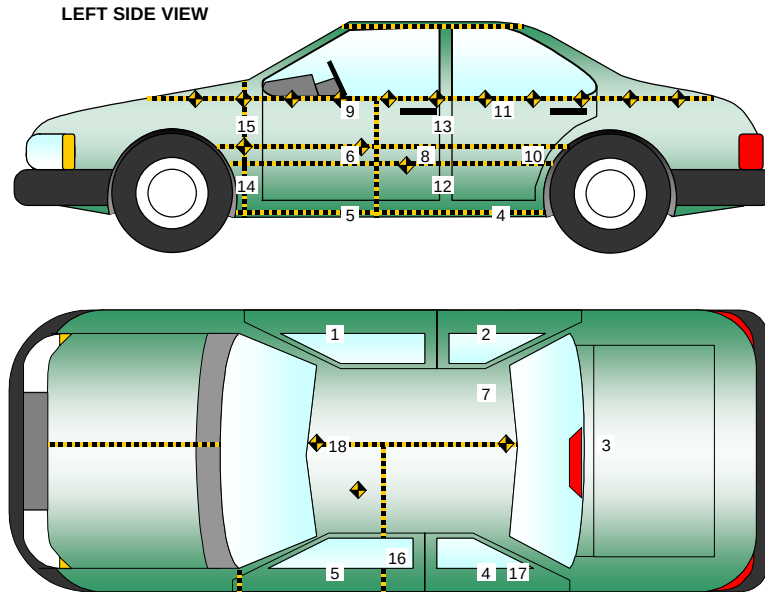
DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



No.	Location
1	Right Sill at Front Seat
2	Right Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Sill at Rear Seat
5	Left Sill at Front Seat
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	Left Front Seat Track
17	Rear Seat Track or Structure
18	Vehicle CG

DATA SHEET NO. 13...(continued)
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

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	2408	670	180	X	8.6	31	4.3	18
					Y	22.4	9	2.2	90
					Z	8.1	35	6.1	21
					RES	22.8	9		
2	Right Sill at Rear Seat	1730	670	192	X	10.8	35	4.5	8
					Y	21.4	37	3.2	90
					Z	8.3	31	5.1	18
					RES	23.6	36		
3	Rear Floorpan Above Axle	918	0	598	X	3.2	33	5.9	15
					Y	26.2	38	3.8	89
					Z	7.4	63	6.8	24
					RES	26.4	38		
4	Left Sill at Rear Seat	1770	-670	180	Y	39.6	14	4.3	8
5	Left Sill at Front Seat	2399	-670	190	Y	42.8	14	5.8	9
6	Left Front Door on Centerline	2287	741	580	Y	232.0	6	89.9	11
7	Rear Occupant Compartment	1625	-308	295	Y	23.5	37	3.2	89
8	Midrear of Left Front Door	1763	-749	644	Y	167.7	3	62.9	27
9	Left Front Door Upper Centerline	2288	-720	835	Y	240.8	16	141.0	24
10	Midrear of Left Rear Door	1395	-712	790	Y	41.2	9	28.5	42
11	Left Rear Door Upper Centerline	1130	-702	922	Y	76.3	17	47.1	40
12	Left B-Post Lower	1750	-727	402	Y	107.1	4	13.7	24
13	Left B-Post Middle	1690	-718	765	Y	178.3	5	48.7	26
14	Left A-Post Lower	2891	-708	308	Y	25.3	7	2.0	142
15	Left A-Post Middle	2932	-787	810	Y	42.3	10	6.9	16
16	Left Front Seat Track	1965	-595	262	Y	38.4	14	6.3	23
17	Vehicle CG	2170	-10	415	X	3.4	4	8.9	10
					Y	20.5	17	2.5	90
					Z	9.6	10	5.7	23
					RES	21.9	20		

Reference Points X - Rear of Vehicle
 Y - Vehicle Centerline
 Z - Ground Plane

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

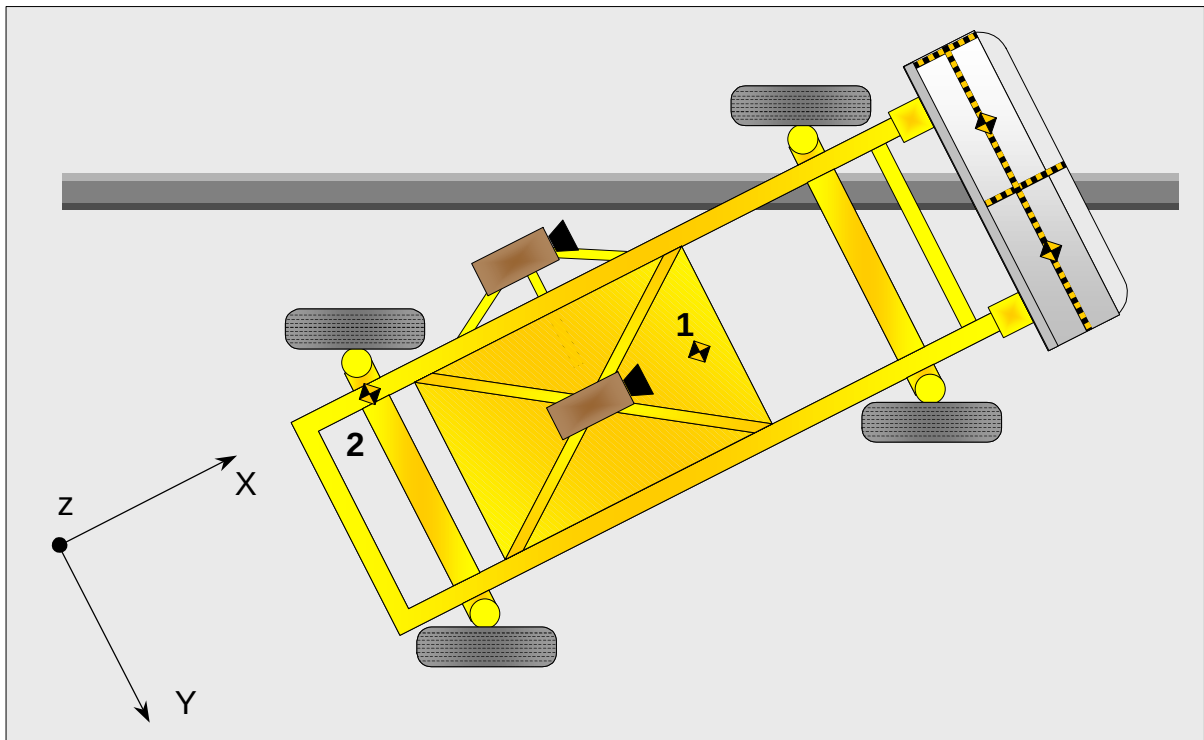
Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

MDB ACCELEROMETER PEAK DATA AND LOCATIONS

Loc. No.	Accelerometer Location	Measurement (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	MDB CG	-1092	0	483	X	1.5	87	21.8	31
					Y	1.1	66	5.0	26
					Z	26.7	56	21.7	61
					RES	30.6	45		
2	MDB Rear	-2591	-625	622	X	2.3	93	24.5	32
					Y	4.0	26	1.6	133

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

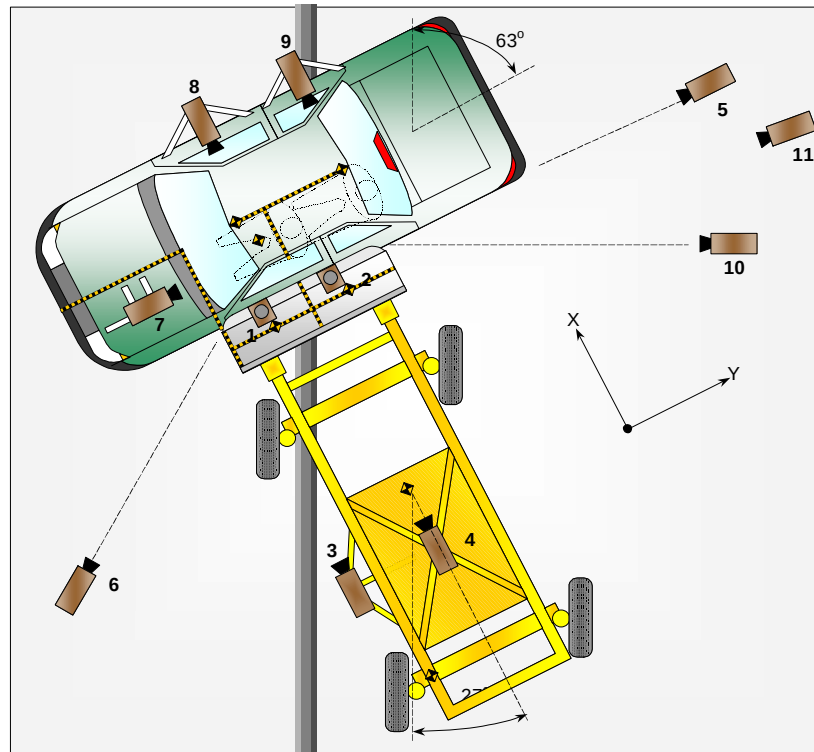


DATA SHEET NO. 15
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



No.	Camera View	Location (mm)			Lens (mm)	Film Speed (fps)
		X	Y	Z		
1	Overhead Overall	0	1470	5000	8	800
2	Overhead Close-up	-140	-90	5000	5	943
3	MDB Onboard, Impact Point Close-up				13	294
4	MDB Onboard, Centerline of Impact				13	690
5	Right Side, Ground Level, Overall	-200	10770	1620	15	847
6	Left Side, Ground Level, Overall	-1260	-2350	1770	25	971
7	Vehicle Onboard Front SID, Front				13	512
8	Vehicle Onboard Front SID, Side				8	505
9	Vehicle Onboard Rear SID, Side				8	518
10	Real Time Coverage				17	

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

DATA SHEET NO. 16

FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001

Test Time: 11:07 AM

Temperature at Time of Impact: 20.6 °C

Stoddard Solvent Spillage Measurements

- A. From impact until vehicle motion ceases: 0 oz.
(Maximum Allowable = 1 ounce)
- B. For the 5 minute period after motion ceases: 0 oz.
(Maximum Allowable = 5 ounces)
- C. For the following 25 minutes: 0 oz.
(Maximum Allowable = 1 oz./minute)
- D. Spillage Details: None

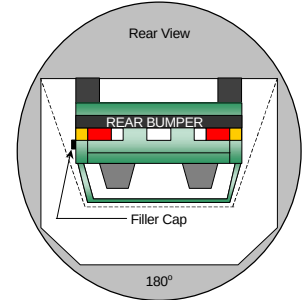
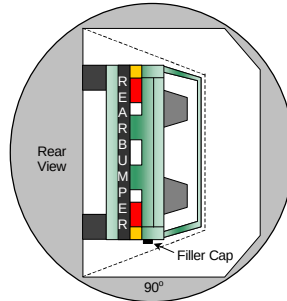
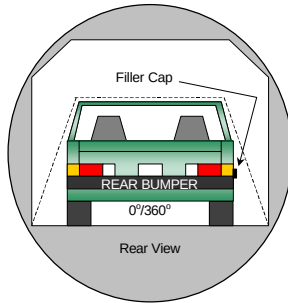
DATA SHEET NO. 17

FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2001/Mitsubishi/Eclipse/3 door

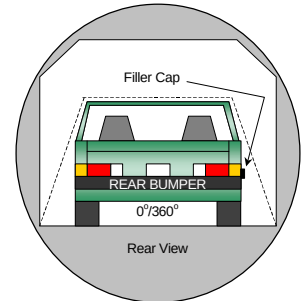
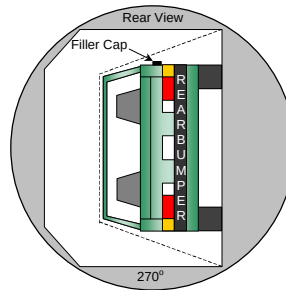
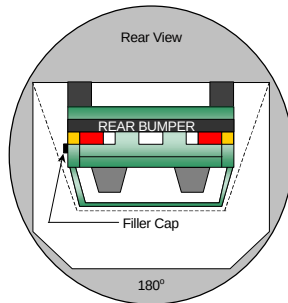
Test Program: Optional NCAP Side Impact

Test Date: July 19, 2001



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 180 seconds.
2. The position hold time at each position is 300 seconds (minimum)
3. Details of Stoddard Solvent spillage locations:

Rollover Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (oz.)
0° TO 90°	159	300	0
90° TO 180°	151	300	0
180° TO 270°	136	300	0
270° TO 360°	160	300	0

APPENDIX A

PHOTOGRAPHS

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Photo No. A-1 - Pre-Test Front View of Test Vehicle



Photo No. A-2 - Post-Test Front View of Test Vehicle



Photo No. A-3 - Pre-Test Rear View of Test Vehicle



Photo No. A-4 - Post-Test Rear View of Test Vehicle

A-5



Photo No. A-5 - Pre-Test Left Side View of Test Vehicle

A-6



Photo No. A-6 - Post-Test Left Side View of Test Vehicle



Photo No. A-7 - Pre-Test MDB Positioned Against Vehicle (left side)



Photo No. A-8 - Pre-Test MDB Positioned Against Vehicle (right side)



Photo No. A-9 - Pre-Test MDB Positioned Against Vehicle Overhead View



Photo No. A-10 - Post-Test MDB and Vehicle (left side)



Photo No. A-11 - Post-Test MDB and Vehicle (right side)



Photo No. A-12 - Pre-Test MDB Top View

A-13



Photo No. A-13 - Post-Test MDB Top View

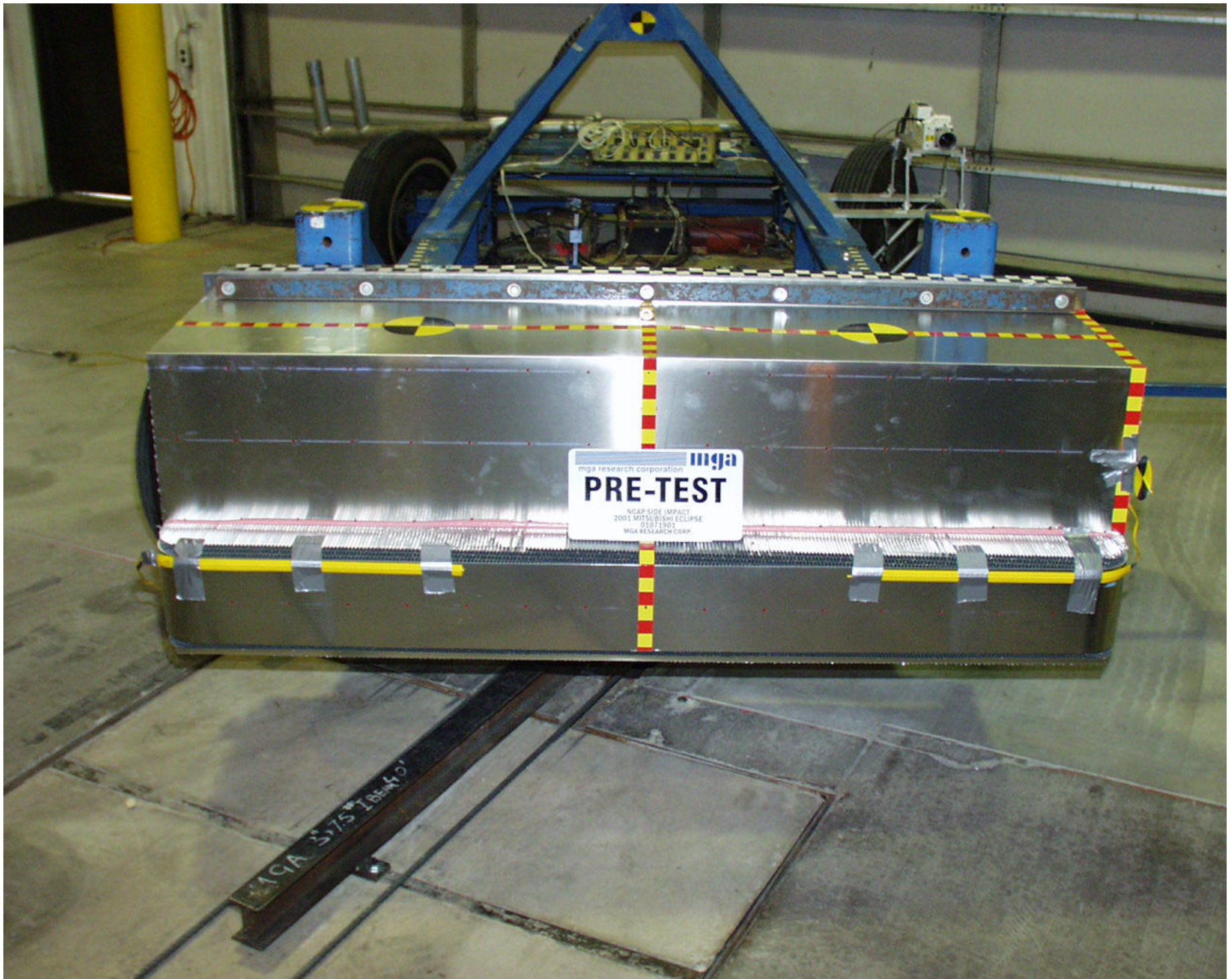


Photo No. A-14 - Pre-Test MDB Front View

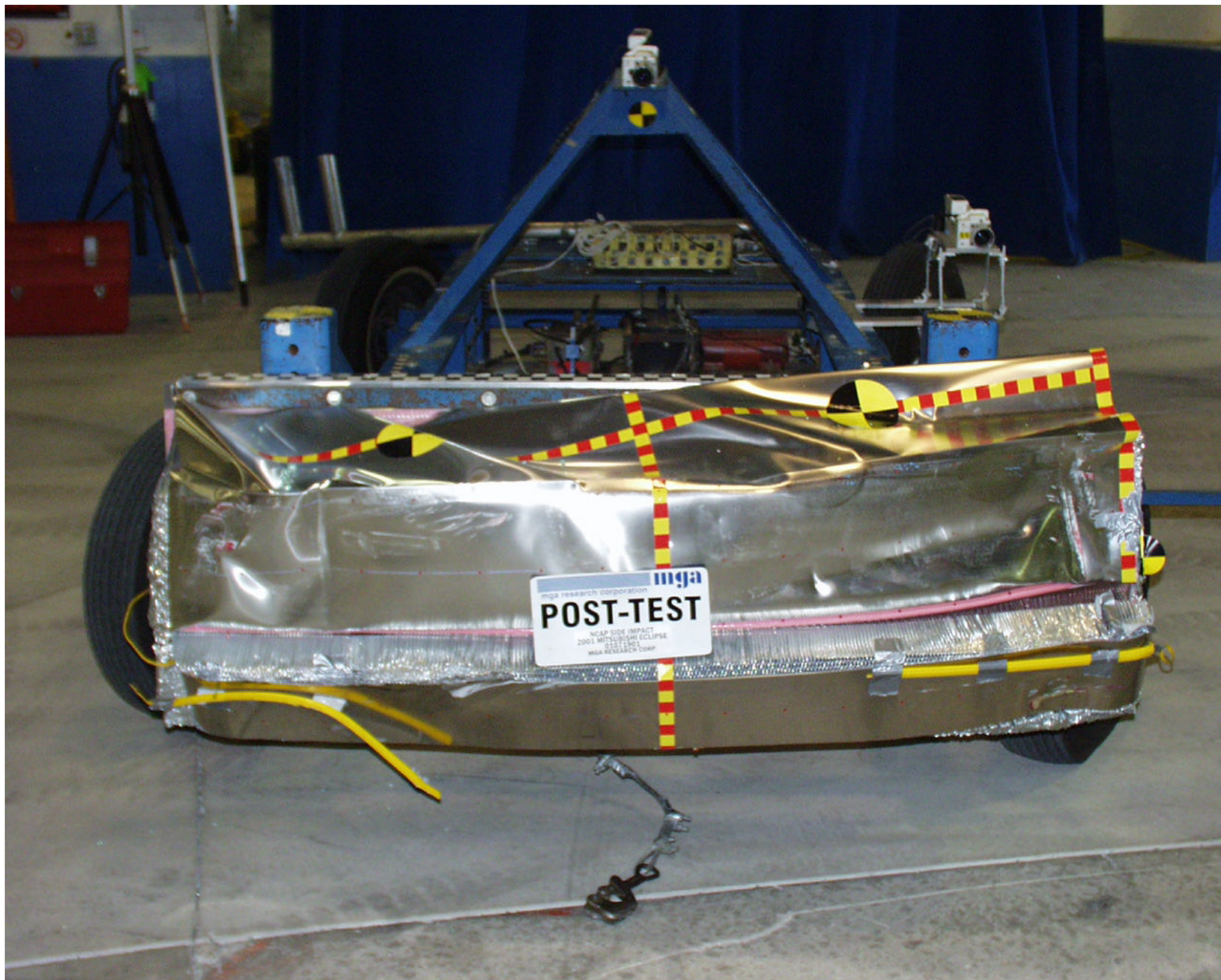


Photo No. A-15 - Post-Test MDB Front View



Photo No. A-16 - Pre-Test MDB Right Side View

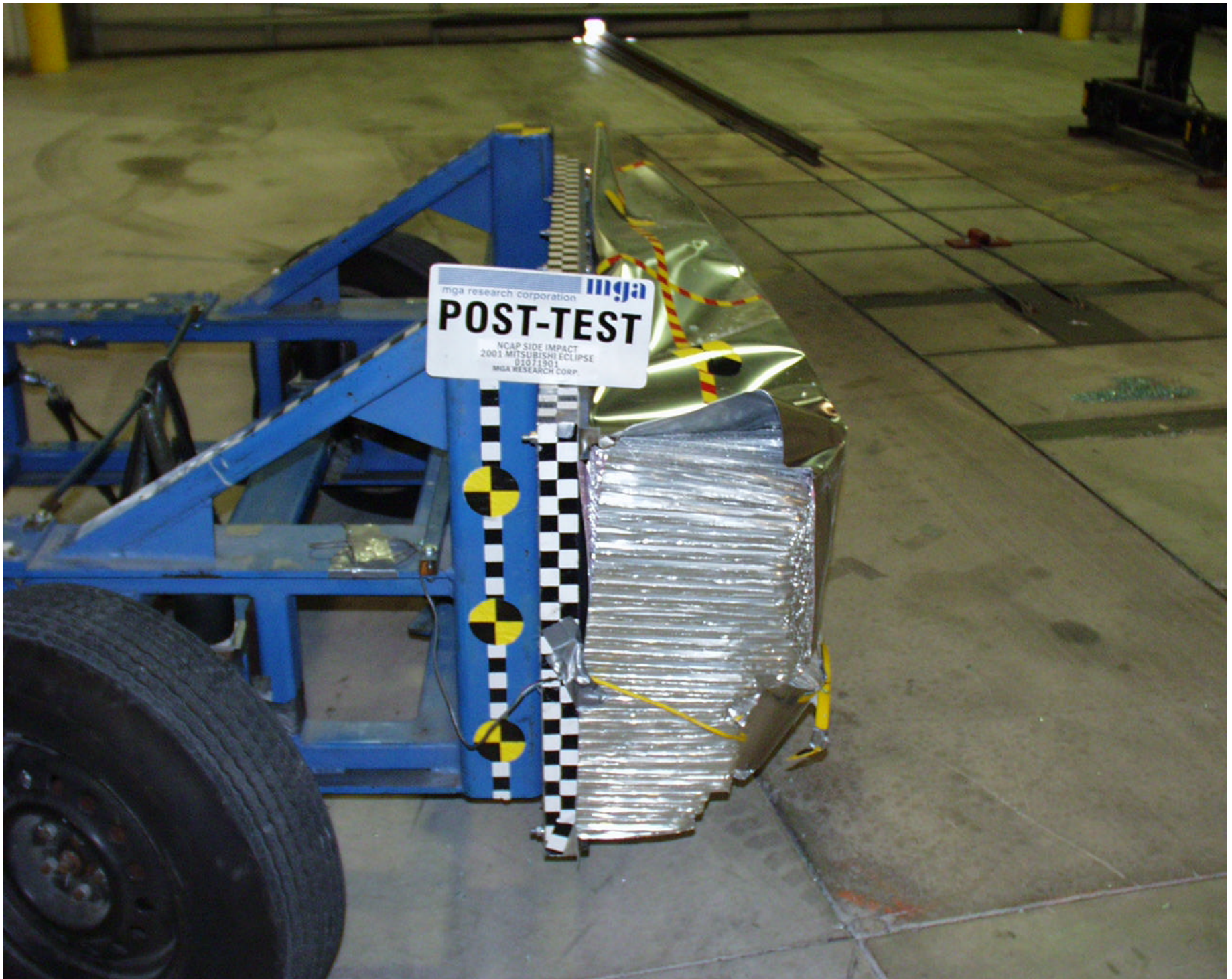


Photo No. A-17 - Post-Test MDB Right Side View



Photo No. A-18 - Pre-Test MDB Left Side View



Photo No. A-19 - Post-Test MDB Left Side View

A-20



Photo No. A-20 - Pre-Test Driver Dummy Right Side View



Photo No. A-21 - Post-Test Driver Dummy Right Side View

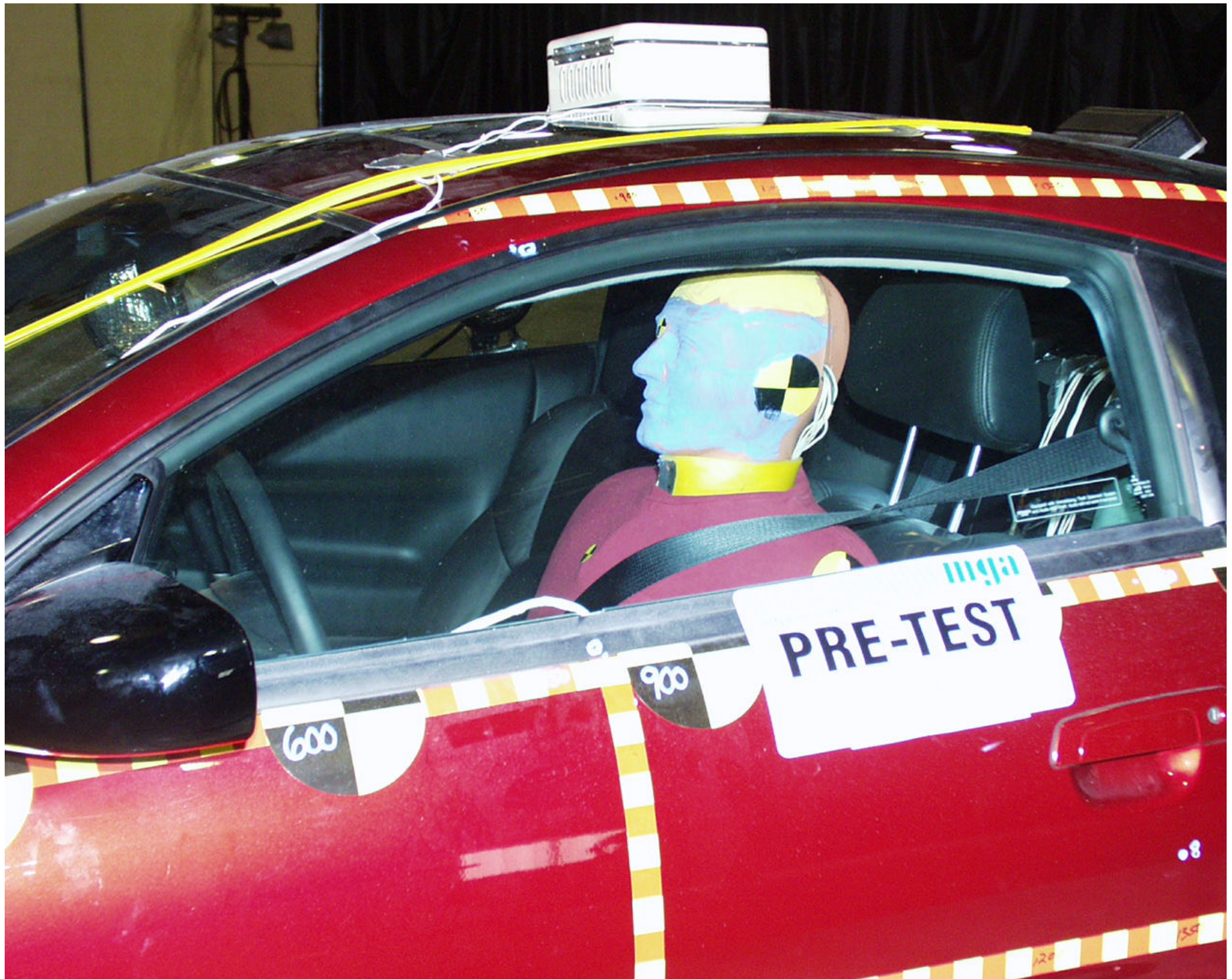


Photo No. A-22 - Pre-Test Driver Dummy Left Side View



Photo No. A-23 - Post-Test Driver Dummy Left Side View



Photo No. A-24 - Pre-Test Driver Dummy Left Side View (Door Open)



Photo No. A-25 - Pre-Test Driver Dummy Shoulder and Door Top View



Photo No. A-26 - Post-Test Driver Dummy Shoulder and Door Top View

A-27



Photo No. A-27 - Post-Test Driver Dummy Contact



Photo No. A-28 - Pre-Test Passenger Dummy Right Side View

A-29



Photo No. A-29 - Post-Test Passenger Dummy Right Side View

A-30



Photo No. A-30 - Pre-Test Passenger Dummy Shoulder and Door Top View



Photo No. A-31 - Post-Test Passenger Dummy Shoulder and Door Top View

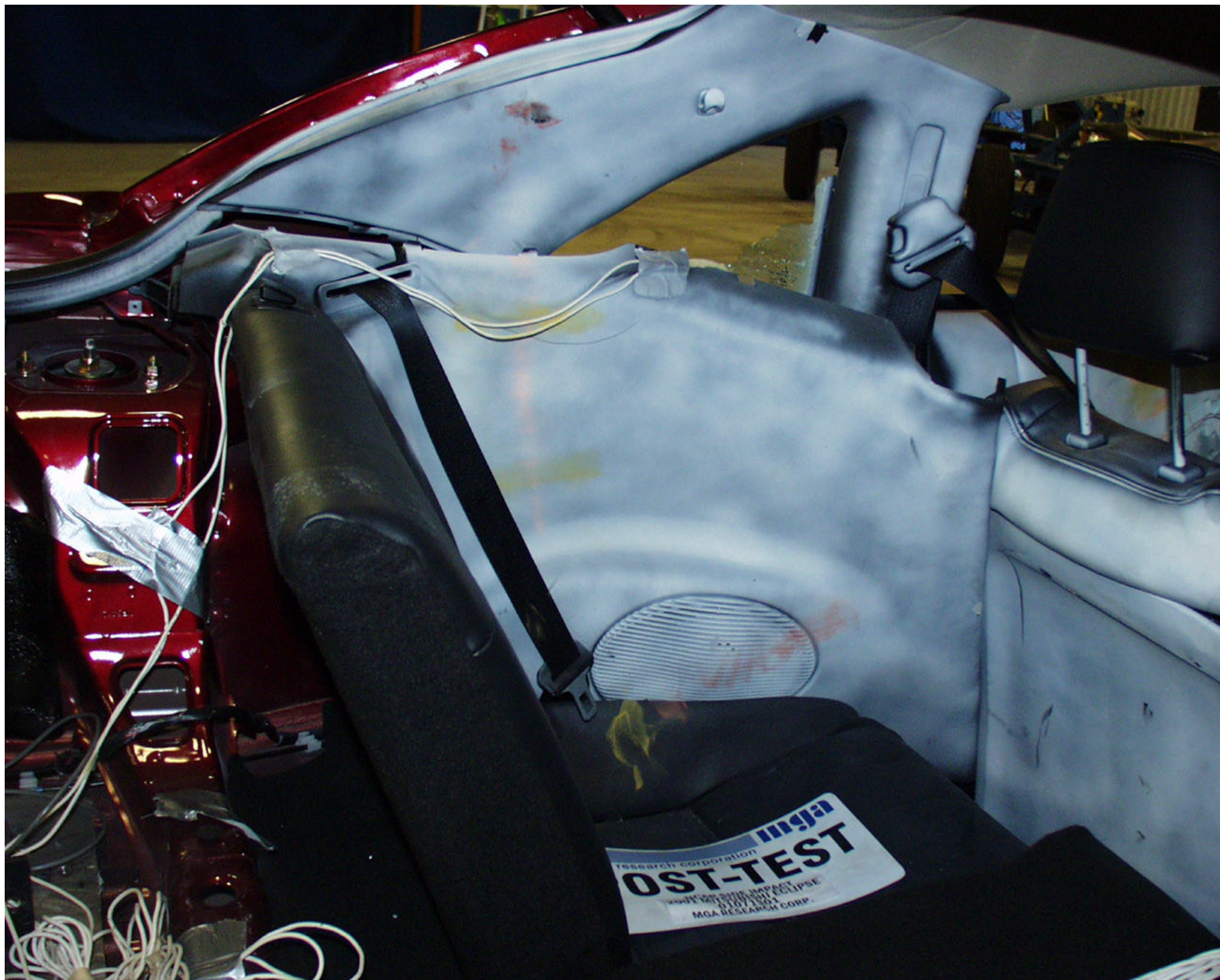


Photo No. A-32 - Post-Test Passenger Dummy Contact



Photo No. A-33 - Pre-Test Left Front Impact Point on Vehicle



Photo No. A-34 - Post-Test Left Front Impact Point on Vehicle



Photo No. A-35 – Impact

MADE IN U.S.A. DATE MAR. 2001
MFD BY MITSUBISHI MOTOR MFG. OF AMERICA, INC.

GVWR 3991 LBS GAWR 2348 LBS GAWR 1753 LBS
1810 KG FR. 1065 KG RR. 795 KG

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

4 A 3 A C 5 4 H 8 1 E 1 8 0 2 8 7



MDH 032322

VEHICLE TYPE: PASSENGER CAR MU900269

Photo No. A-36 - Vehicle Certification Label

TIRE INFLATION PRESSURE (COLD)	
STANDARD INFLATION PRESSURE FOR ALL LOAD	
1ST SEAT	2 PASS.
2ND SEAT	2 PASS.
TOTAL	4 PASS.
LUGGAGE	28 kg (62 lbs)
TOTAL WEIGHT	300 kg (661 lbs)
TIRE SIZE	P215/50R17 90V
FRONT	REAR
220 kPa (32psi)	200 kPa (29psi)
TIRE SIZE T125/70D16 TEMPORARY USE ONLY	
420 kPa	(60 psi)
PART NO.	MR369736

Photo No. A-37 - Tire Placard

A-38

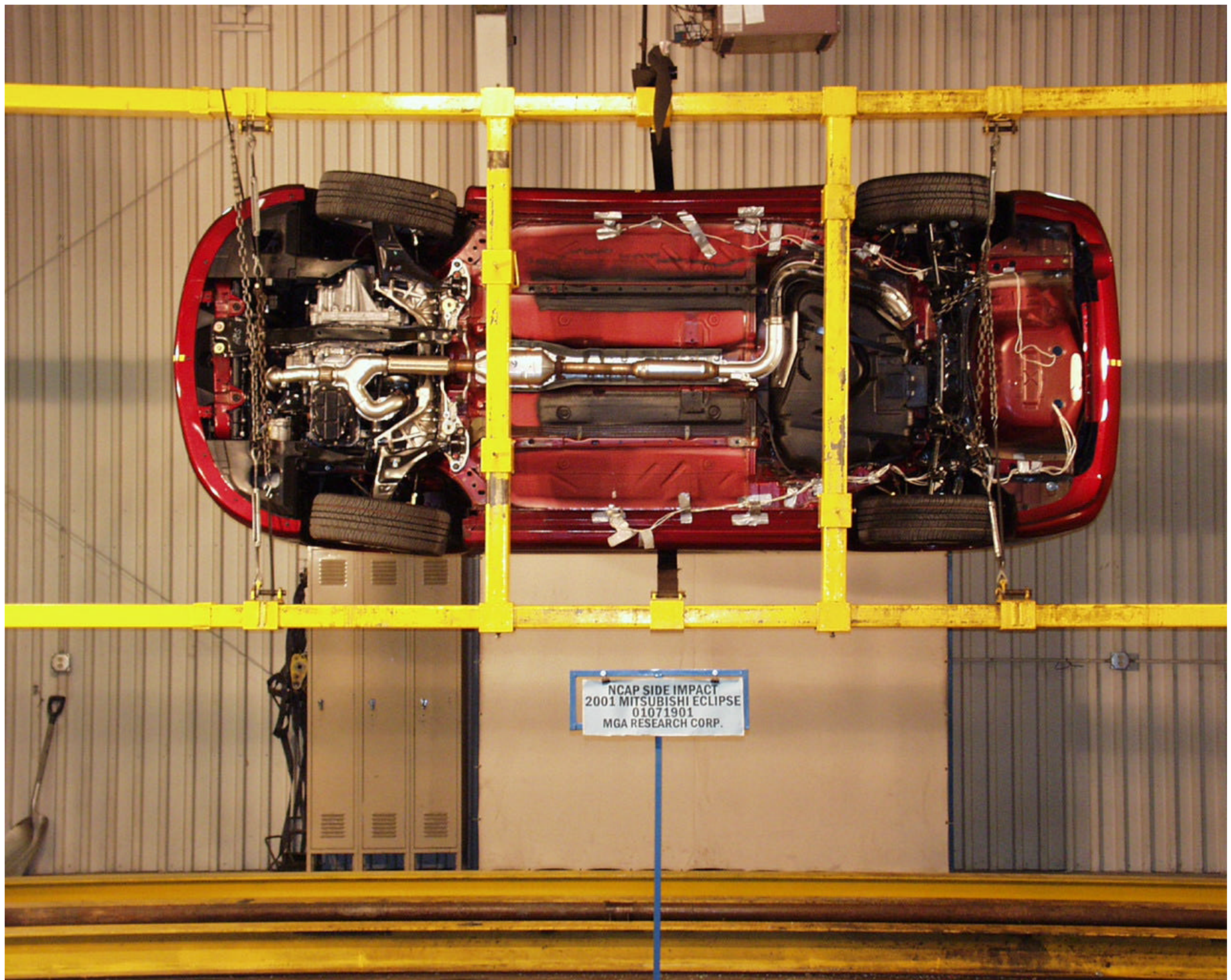


Photo No. A-38 - Rollover 90°



Photo No. A-39 - Rollover 180°



Photo No. A-40 - Rollover 270°



Photo No. A-41 - Rollover 360°

A-42

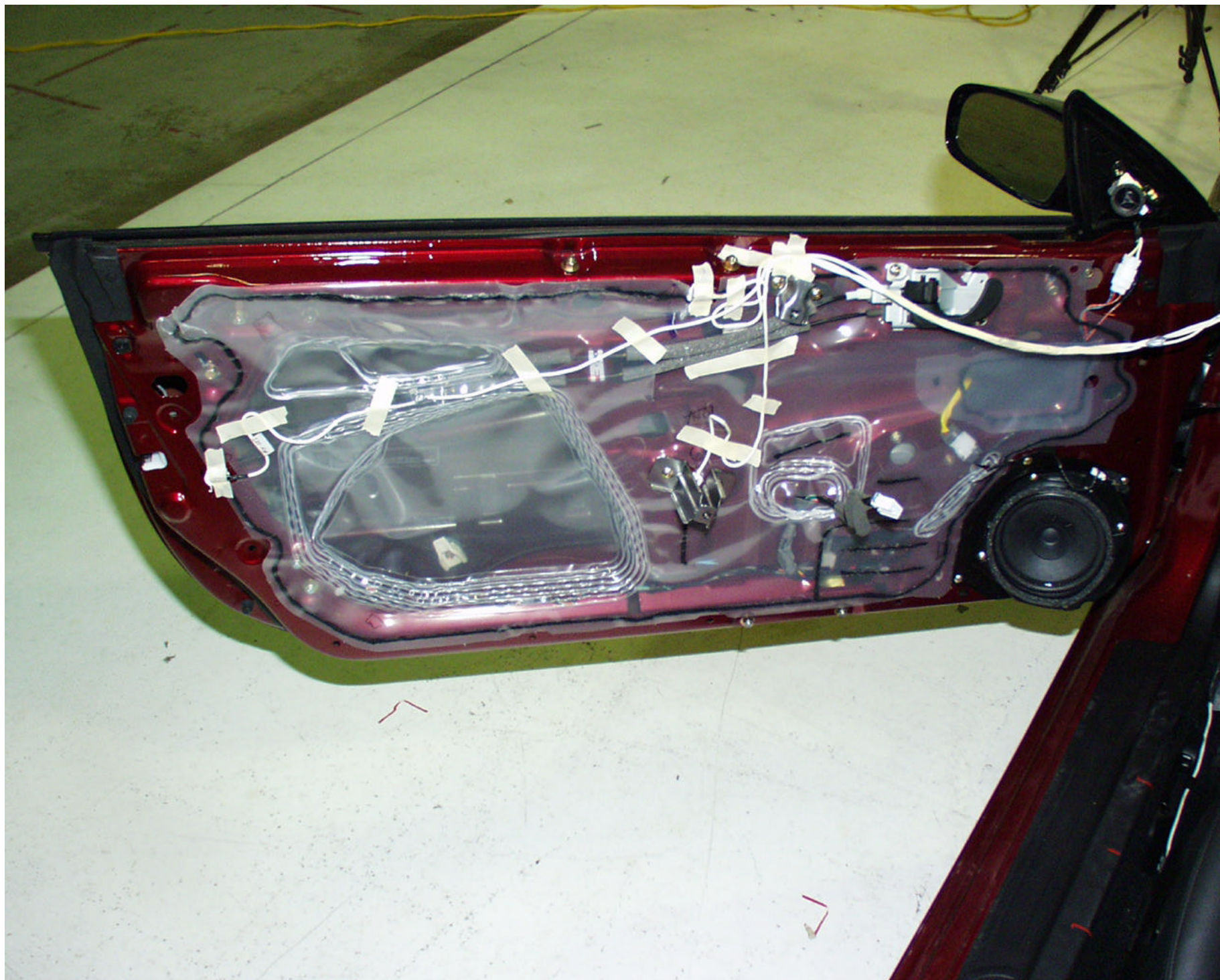


Photo No. A-42 - Driver's Door Instrumentation

A-43

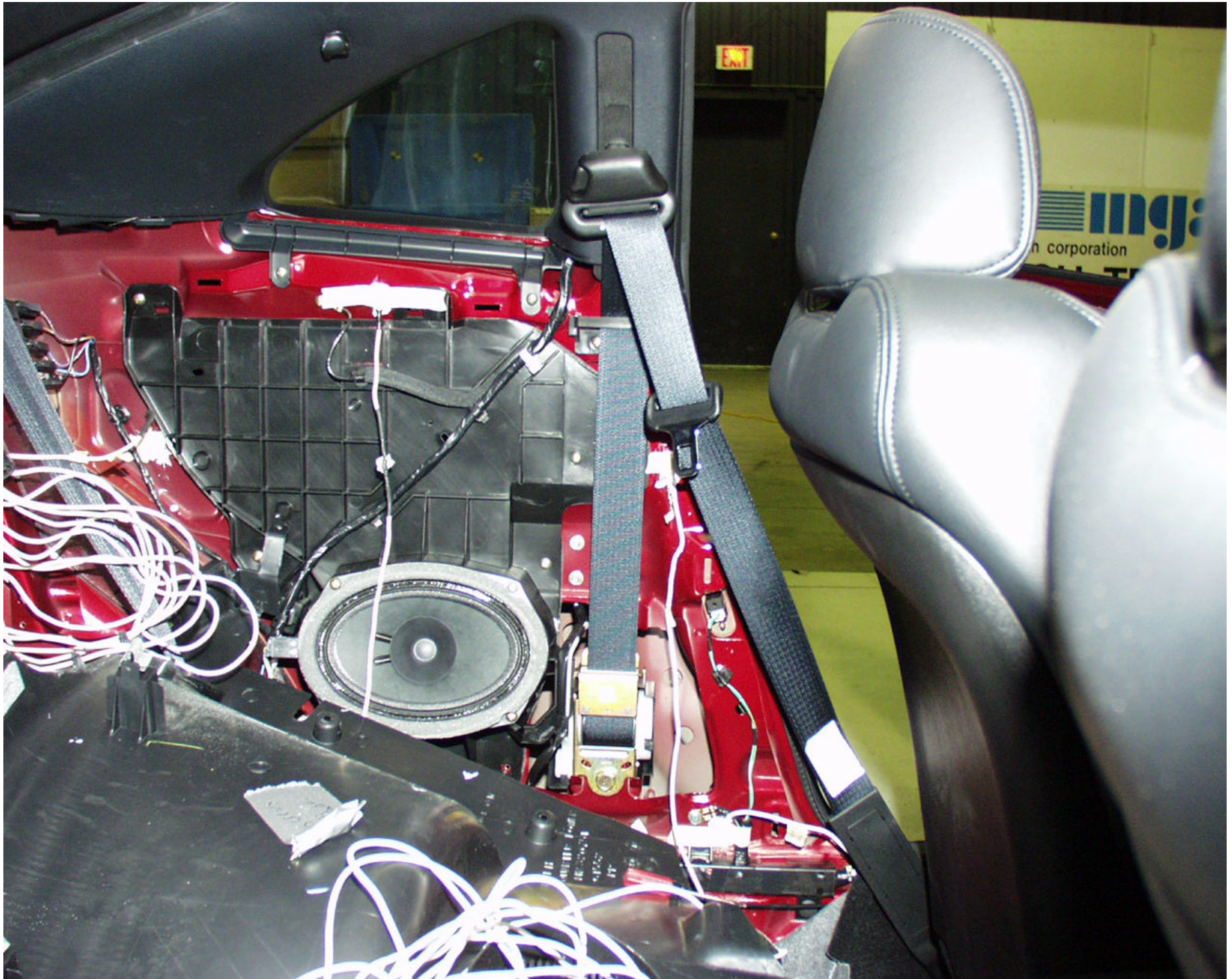


Photo No. A-43 - Rear Side Instrumentation

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APPENDIX B

SID, VEHICLE, AND MDB RESPONSE DATA

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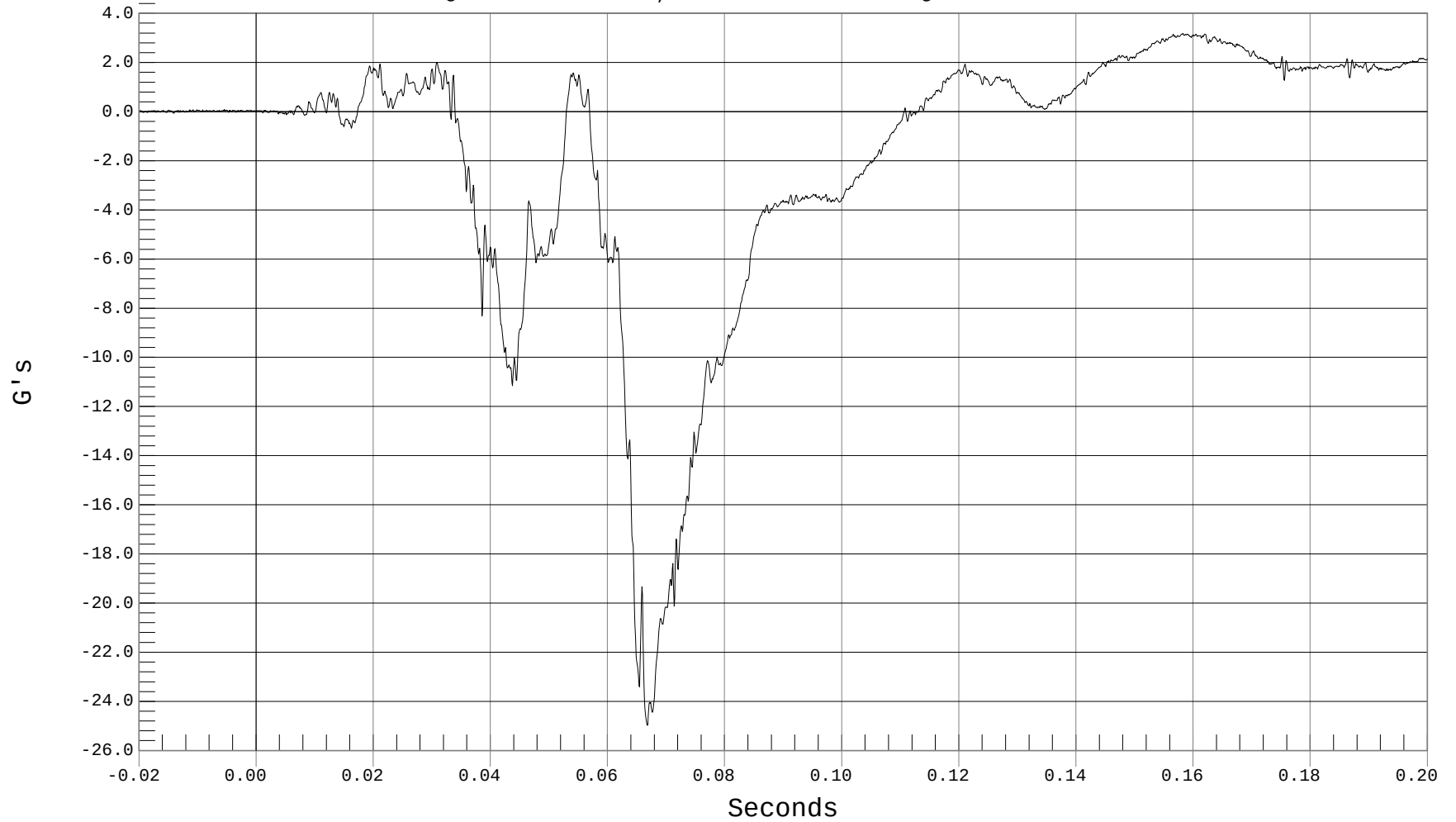
DRIVER HEAD X ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD X, B01079AT.A01

Ymin = -24.97 G's @ 0.0667 Seconds, Ymax = 3.18 G's @ 0.1582 Seconds





DRIVER HEAD X VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

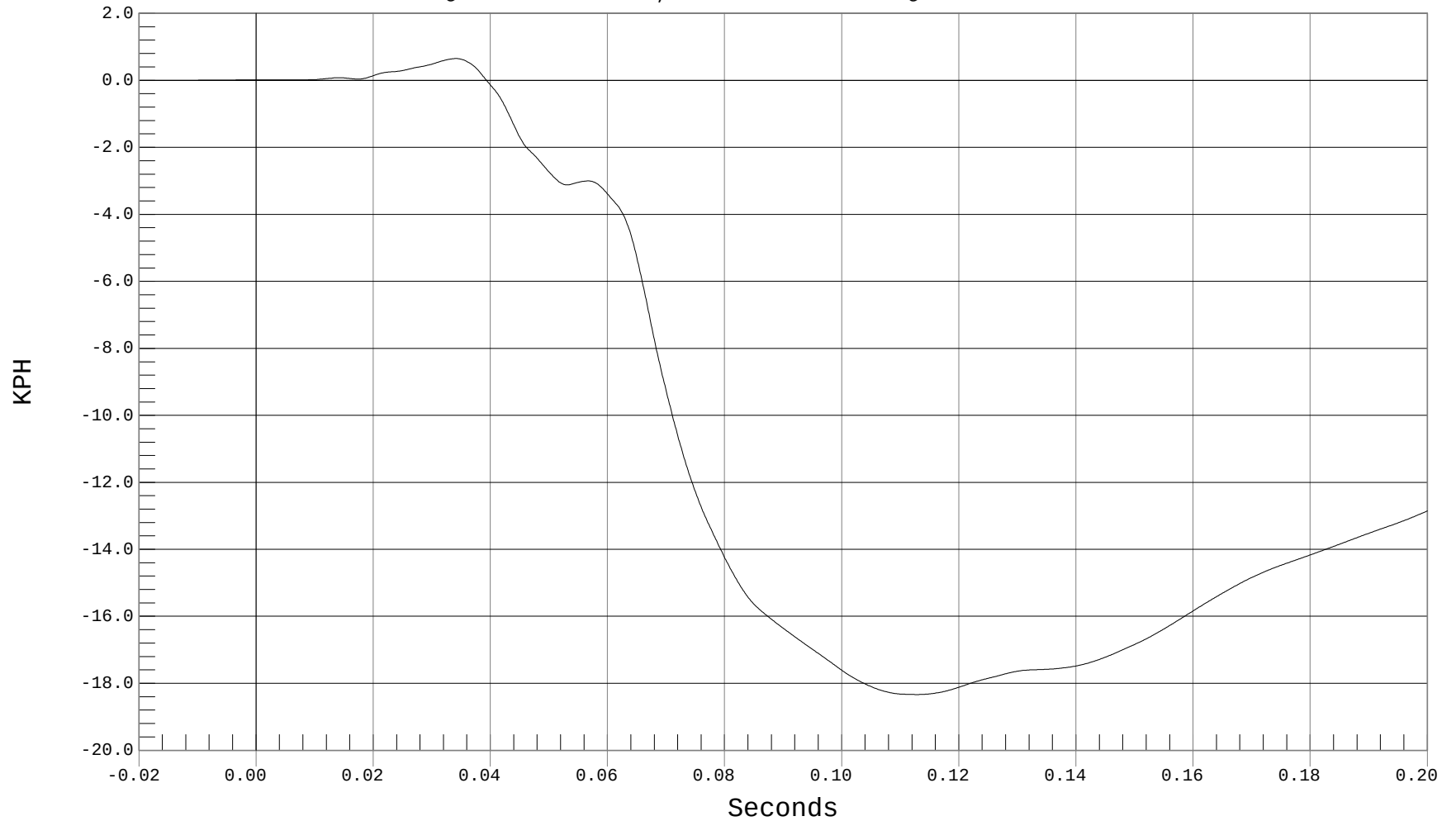
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER HEAD X VELOCITY, B01079AI.V01

Ymin = -18.33 KPH @ 0.1128 Seconds, Ymax = .65 KPH @ 0.0340 Seconds





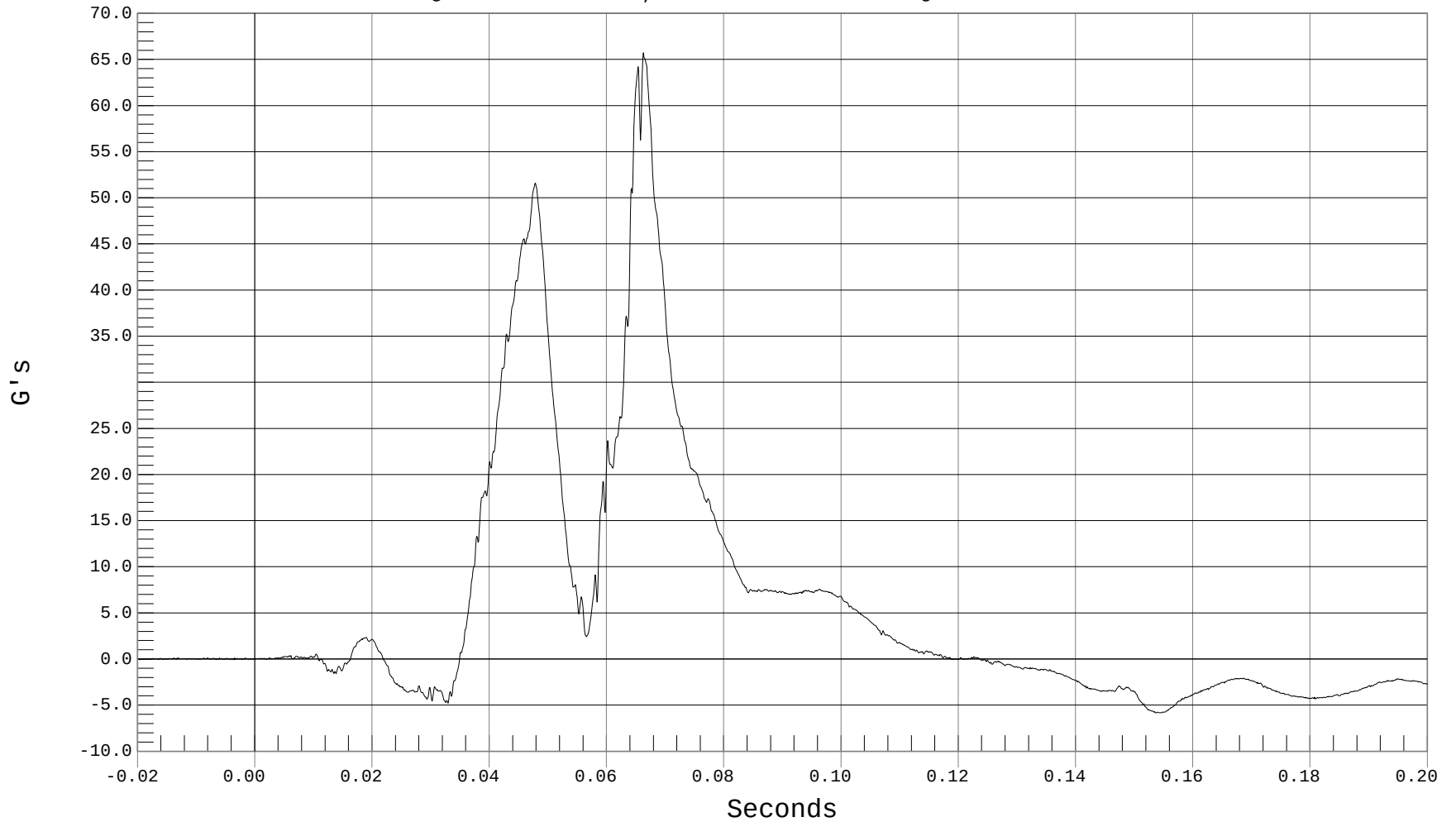
DRIVER HEAD Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD Y, B01079AT.A02

Ymin = -5.85 G's @ 0.1536 Seconds, Ymax = 65.74 G's @ 0.0662 Seconds





DRIVER HEAD Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

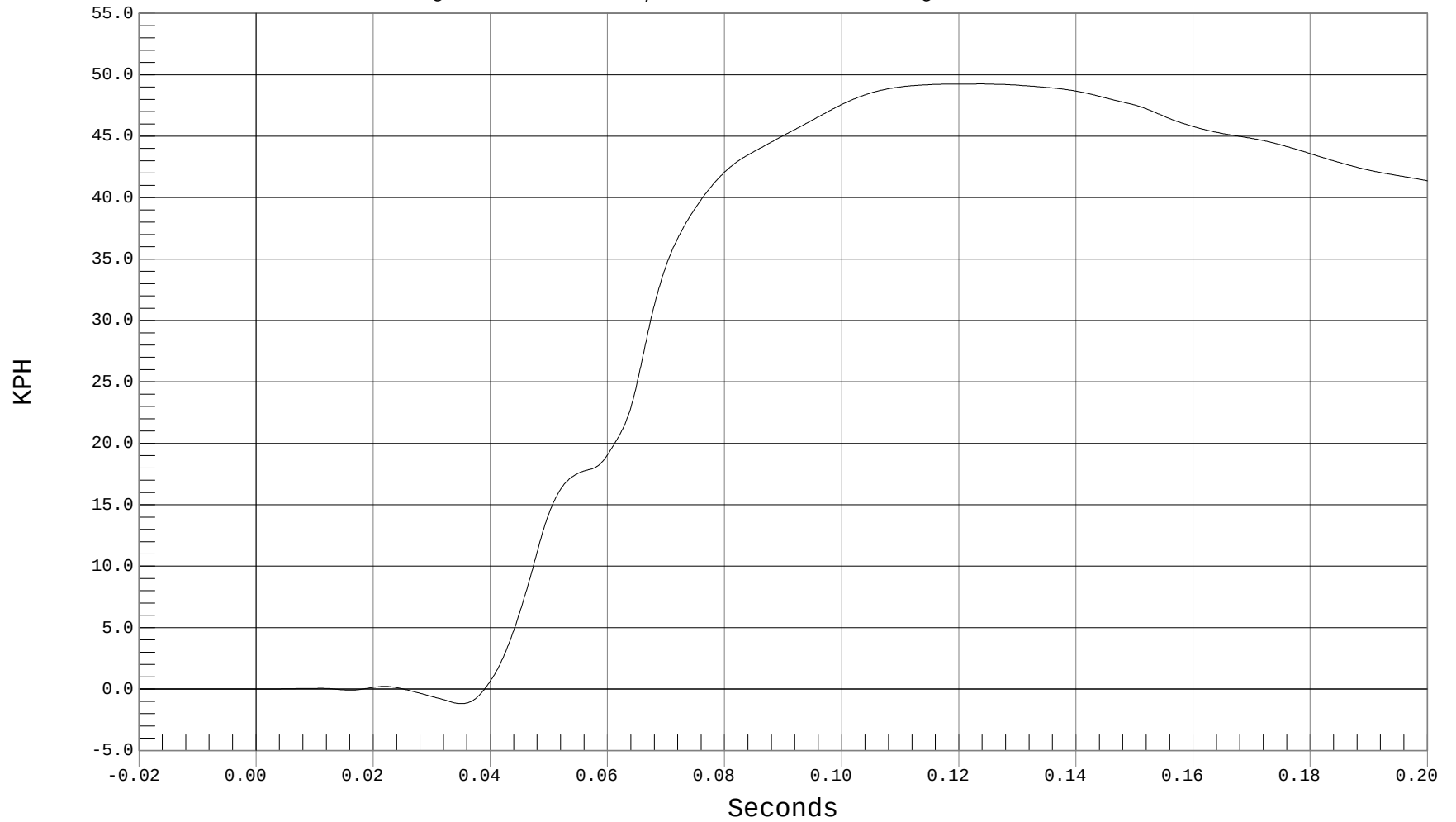
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER HEAD Y VELOCITY, B01079AI.V02

Ymin = -1.19 KPH @ 0.0349 Seconds, Ymax = 49.25 KPH @ 0.1237 Seconds





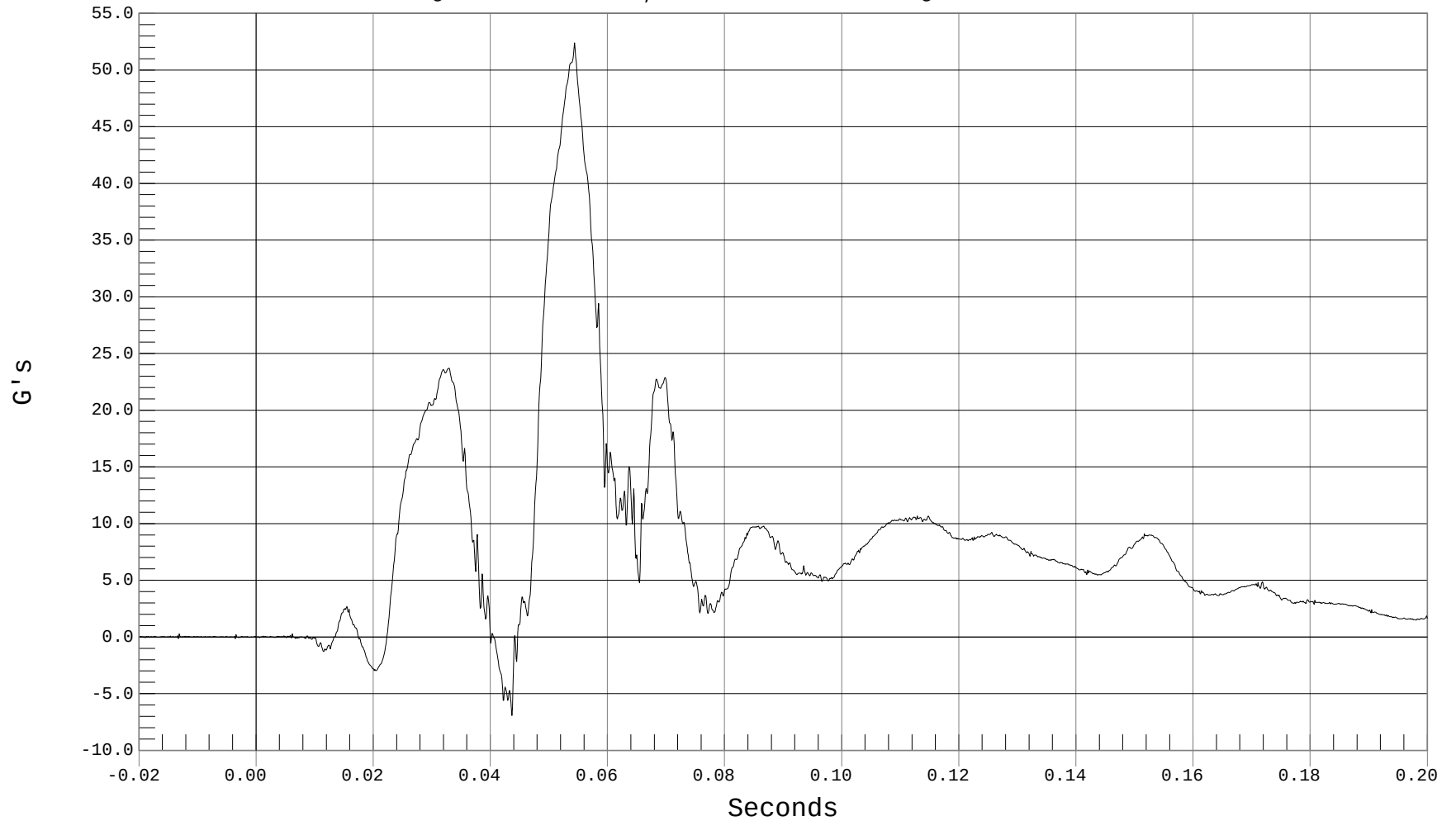
DRIVER HEAD Z ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD Z, B01079AT.A03

Ymin = -6.94 G's @ 0.0436 Seconds, Ymax = 52.39 G's @ 0.0543 Seconds





DRIVER HEAD Z VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

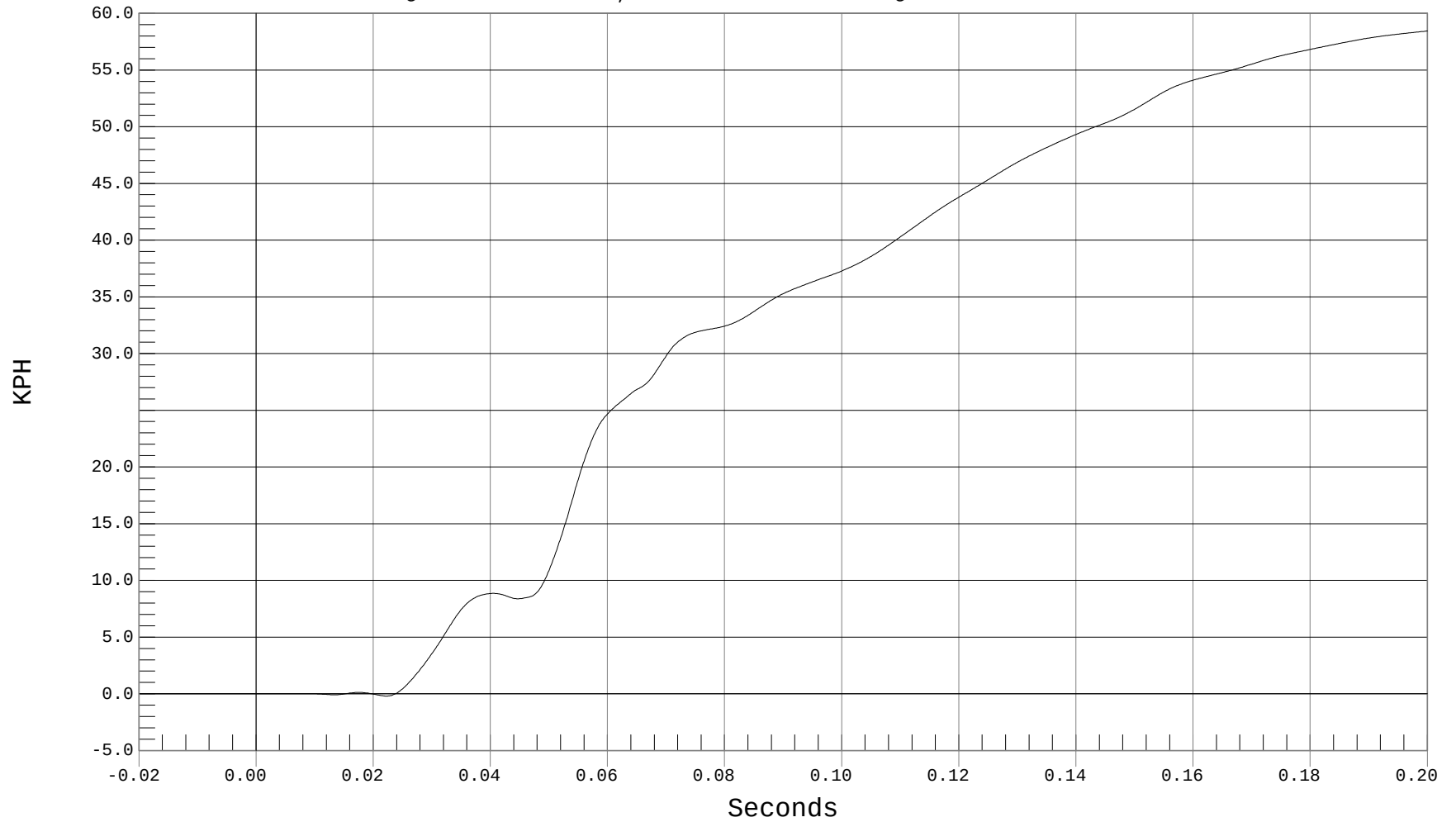
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER HEAD Z VELOCITY, B01079AI.V03

Ymin = -.2 KPH @ 0.0222 Seconds, Ymax = 58.45 KPH @ 0.2000 Seconds





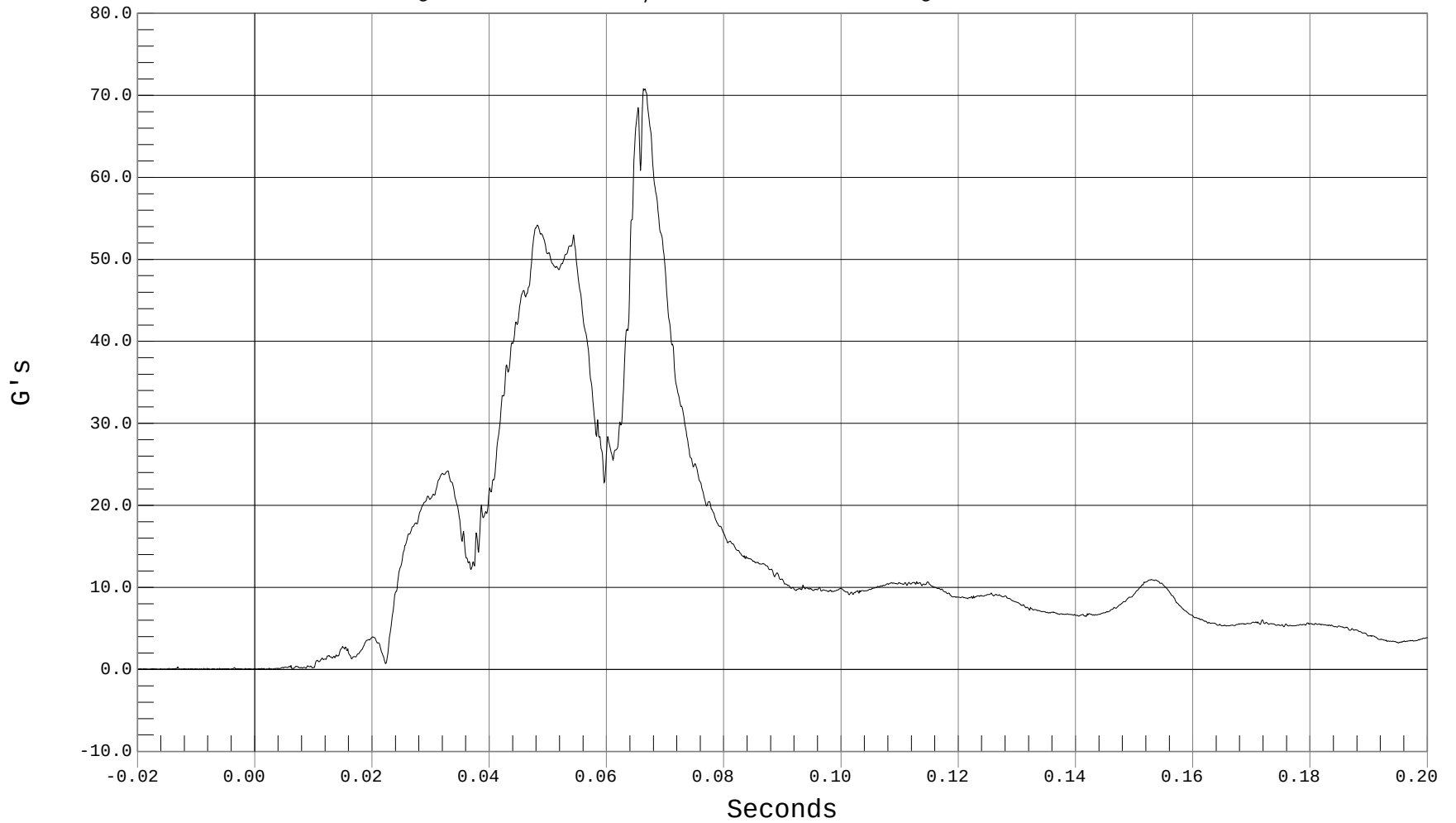
DRIVER HEAD RESULTANT ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER HEAD RESULTANT, B01079AV.A01

Ymin = .01 G's @ -0.0148 Seconds, Ymax = 70.82 G's @ 0.0662 Seconds





DRIVER UPPER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

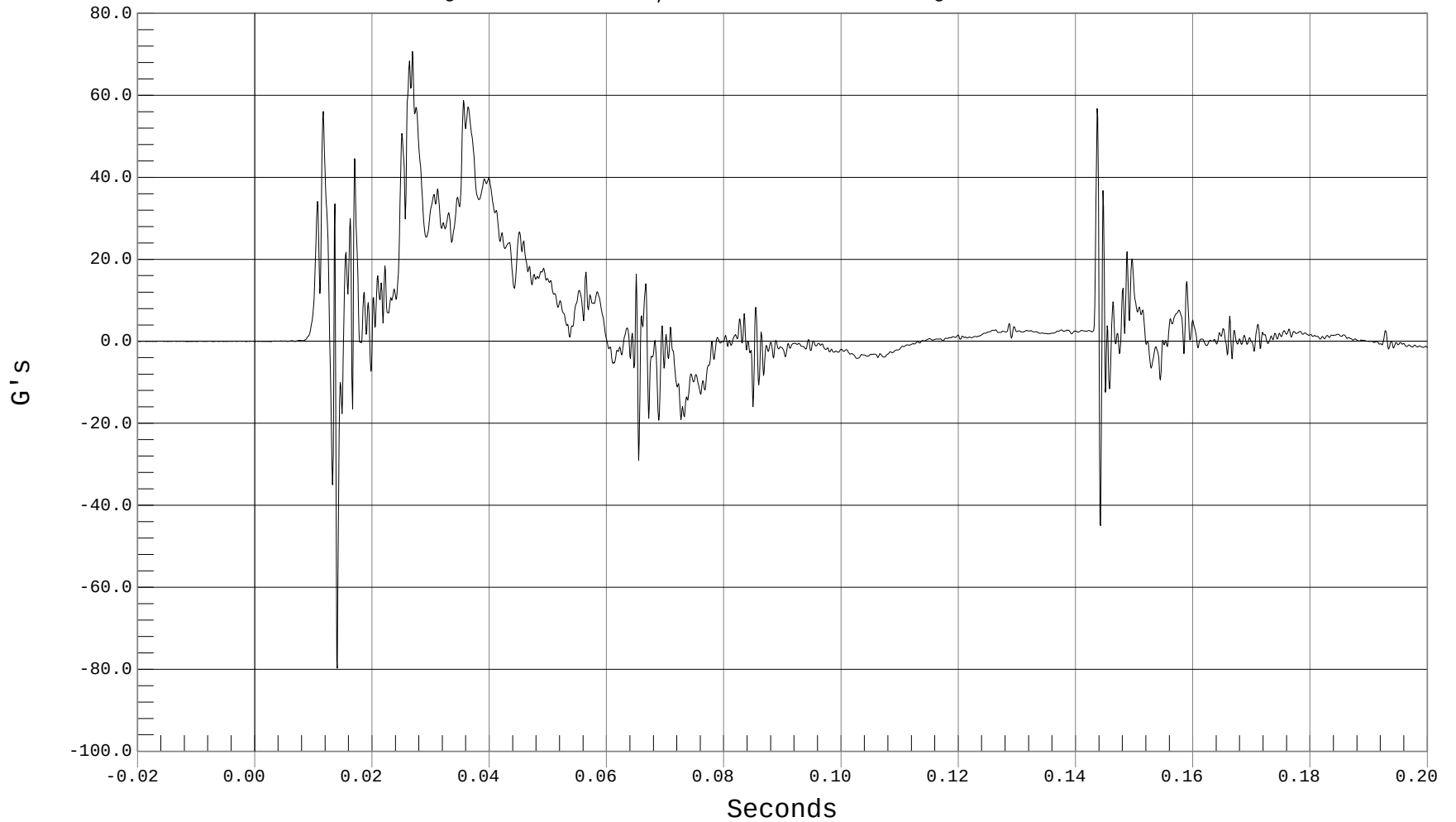
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 DRIVER UPPER RIB Y, B01079AT.A04

Ymin = -79.78 G's @ 0.0140 Seconds, Ymax = 70.69 G's @ 0.0268 Seconds





DRIVER UPPER RIB Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

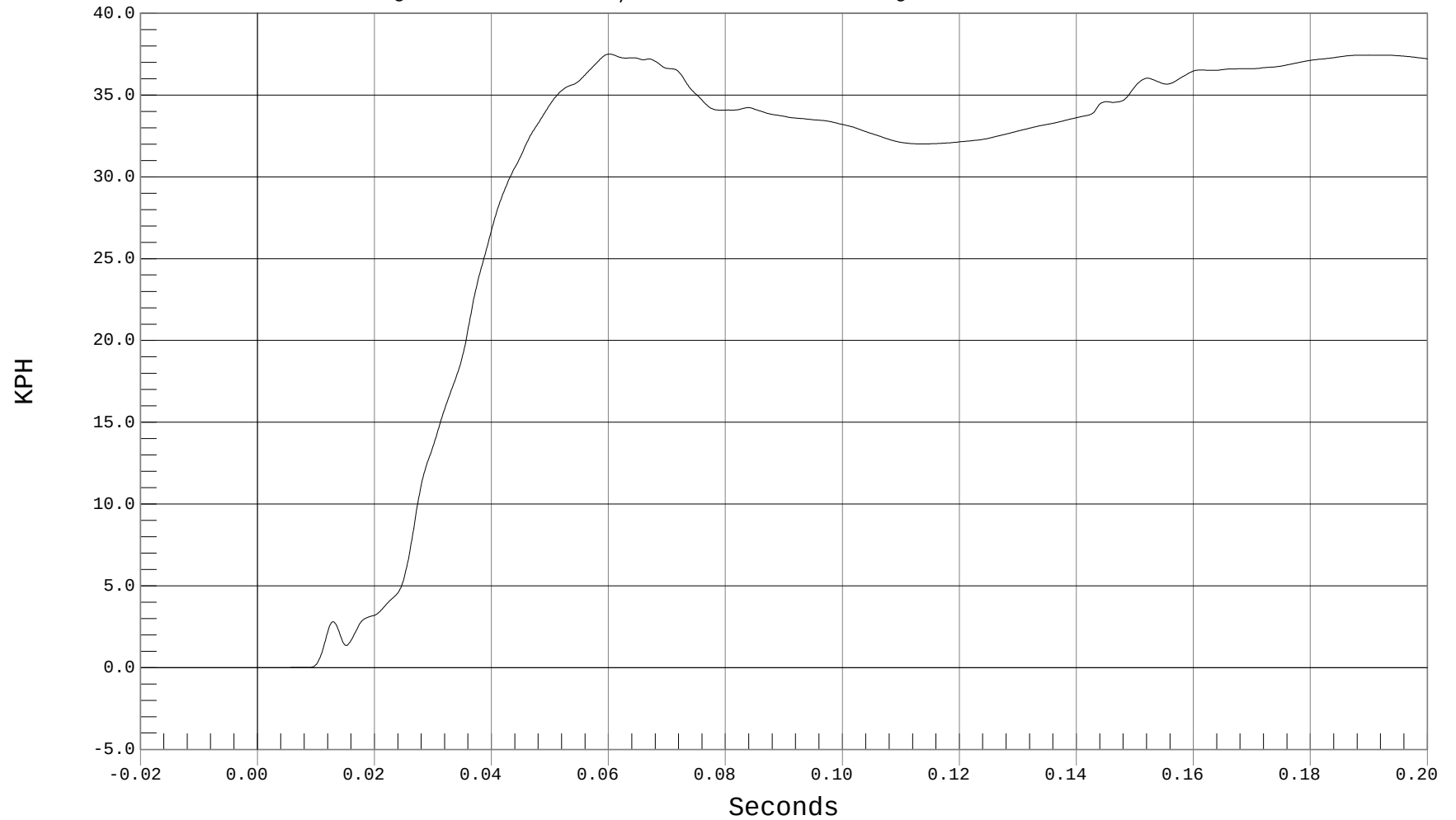
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER UPPER RIB Y VELOCITY, B01079AI.V04

Ymin = 0 KPH @ -0.0197 Seconds, Ymax = 37.51 KPH @ 0.0601 Seconds





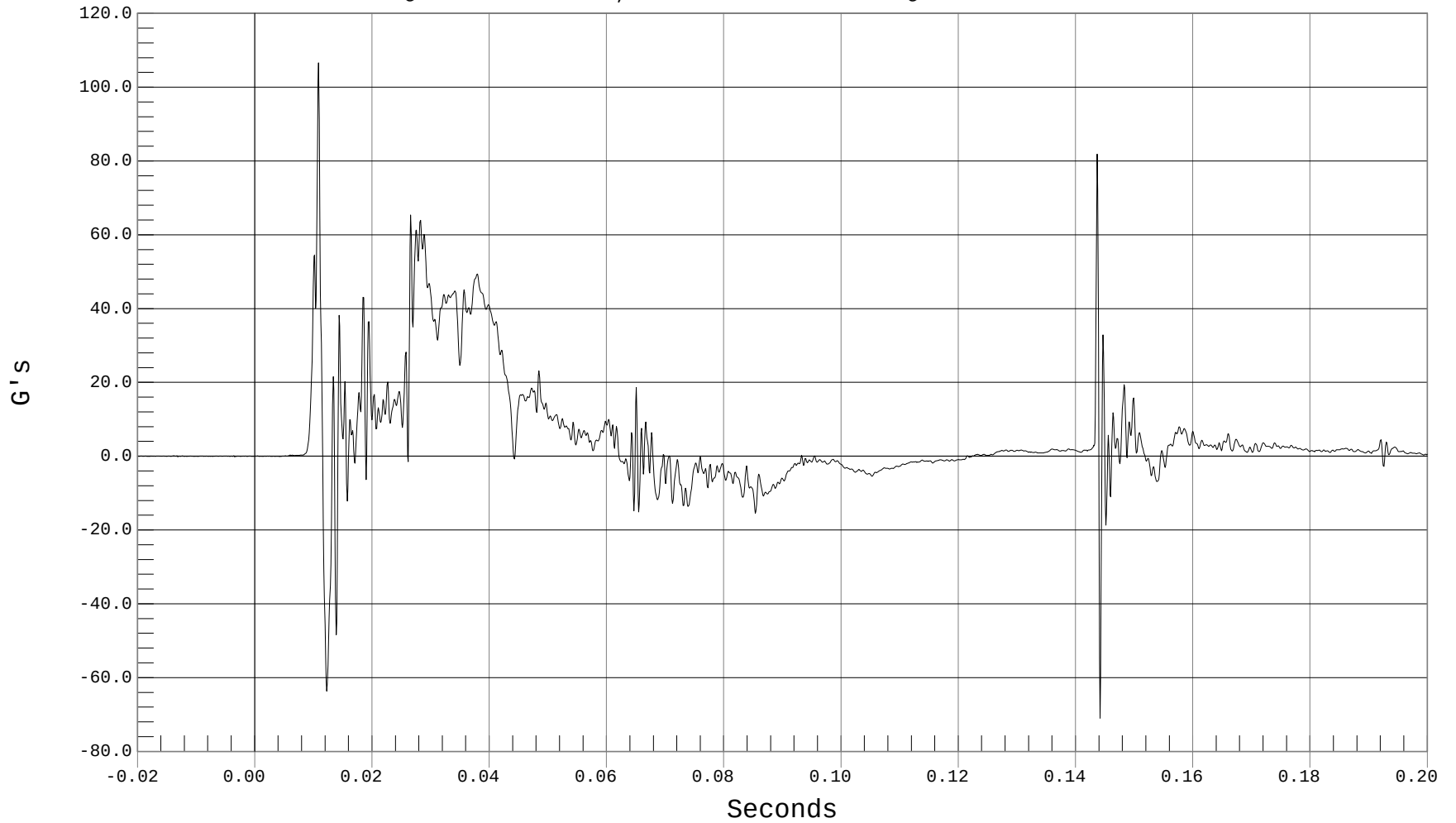
DRIVER LOWER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER LOWER RIB Y, B01079AT.A05

Ymin = -71 G's @ 0.1441 Seconds, Ymax = 106.62 G's @ 0.0108 Seconds





DRIVER LOWER RIB Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

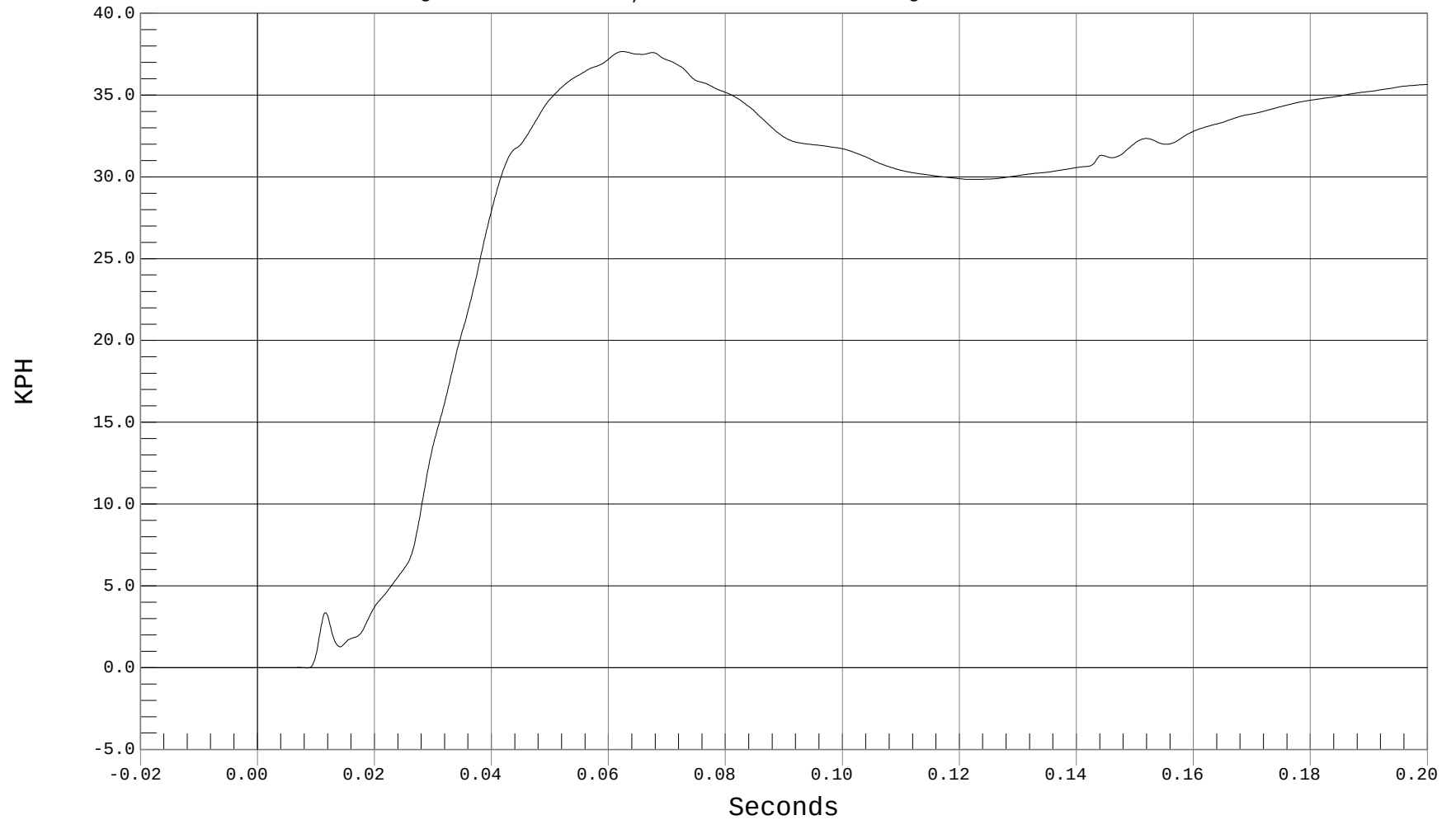
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER LOWER RIB Y VELOCITY, B01079AI.V05

Ymin = -.02 KPH @ 0.0085 Seconds, Ymax = 37.67 KPH @ 0.0623 Seconds





DRIVER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

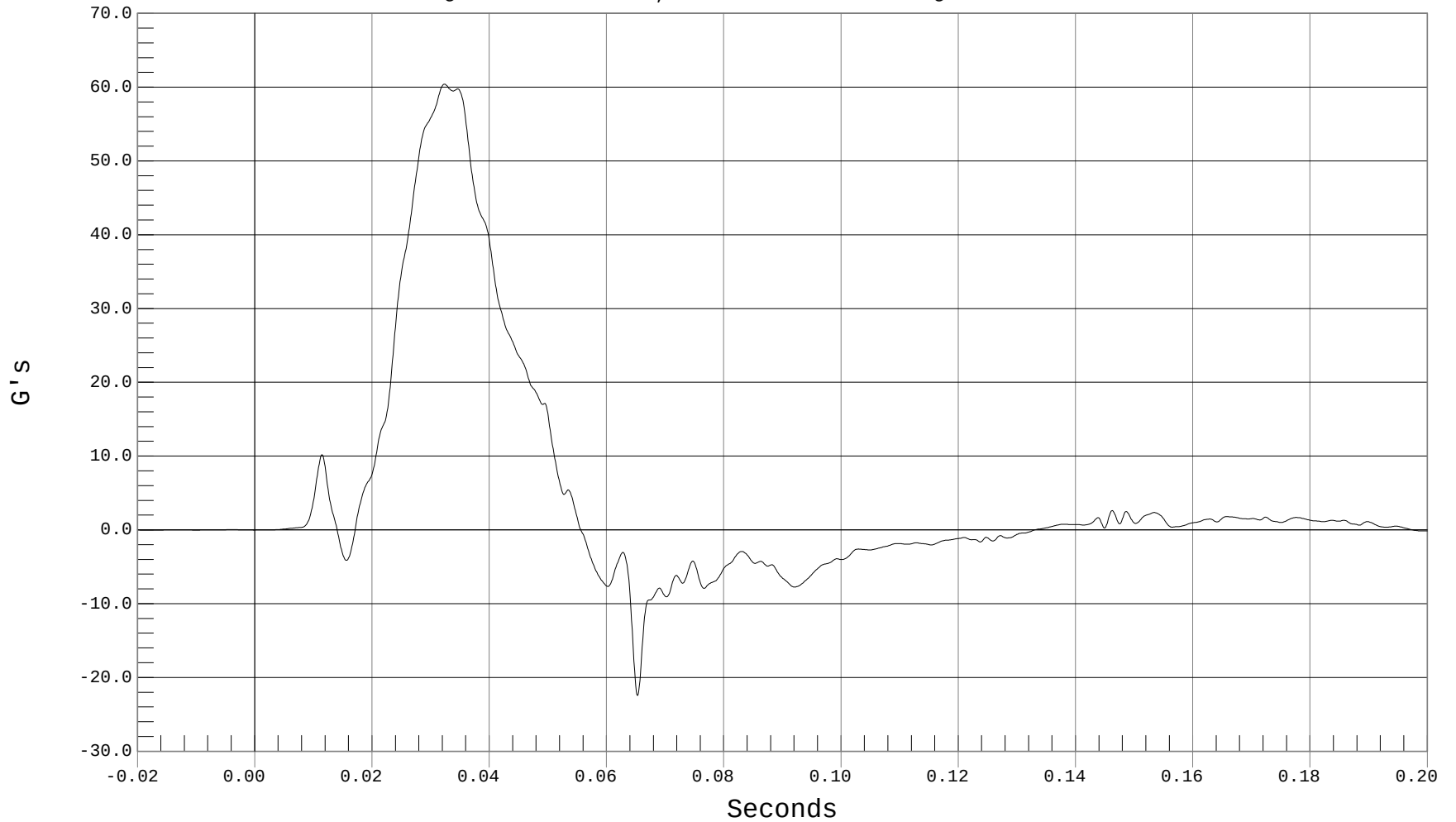
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER LOWER SPINE Y, B01079AF.A06

Ymin = -22.45 G's @ 0.0652 Seconds, Ymax = 60.41 G's @ 0.0323 Seconds





DRIVER LOWER SPINE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

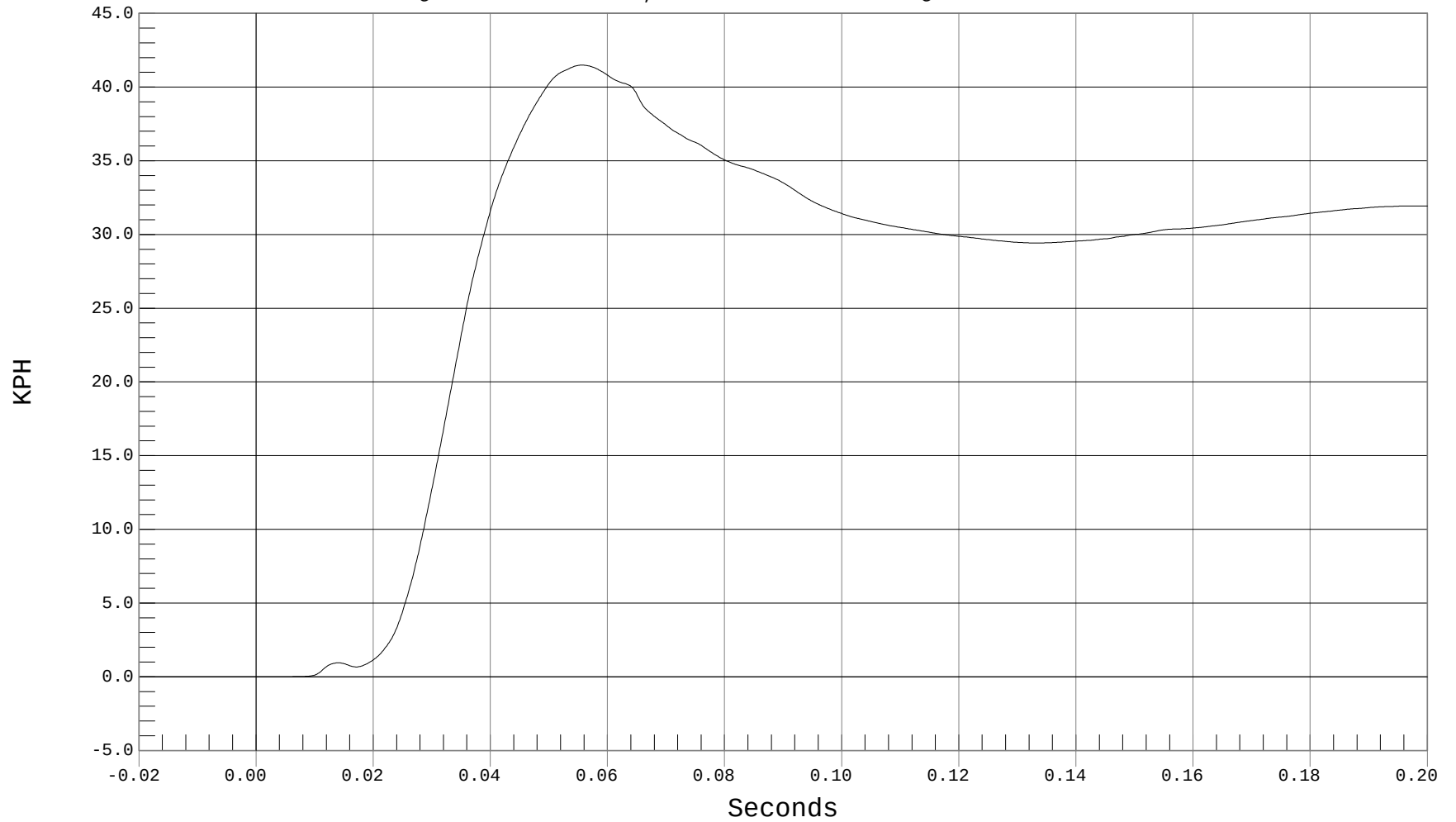
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER LOWER SPINE Y VELOCITY, B01079AI.V06

Ymin = -.01 KPH @ -0.0062 Seconds, Ymax = 41.48 KPH @ 0.0555 Seconds





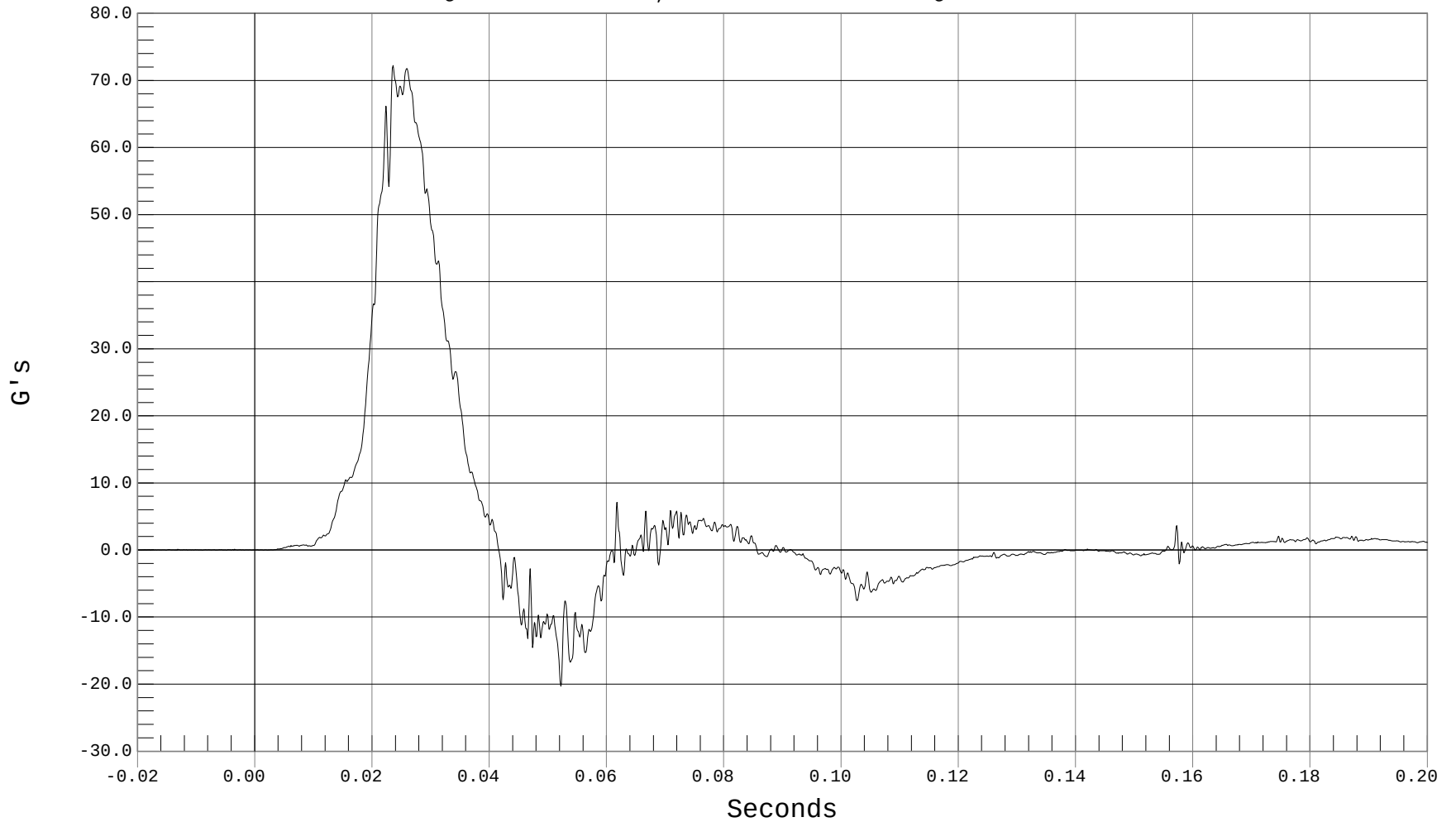
DRIVER PELVIS Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER PELVIS Y, B01079AT.A07

Ymin = -20.31 G's @ 0.0521 Seconds, Ymax = 72.24 G's @ 0.0235 Seconds





DRIVER PELVIS Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

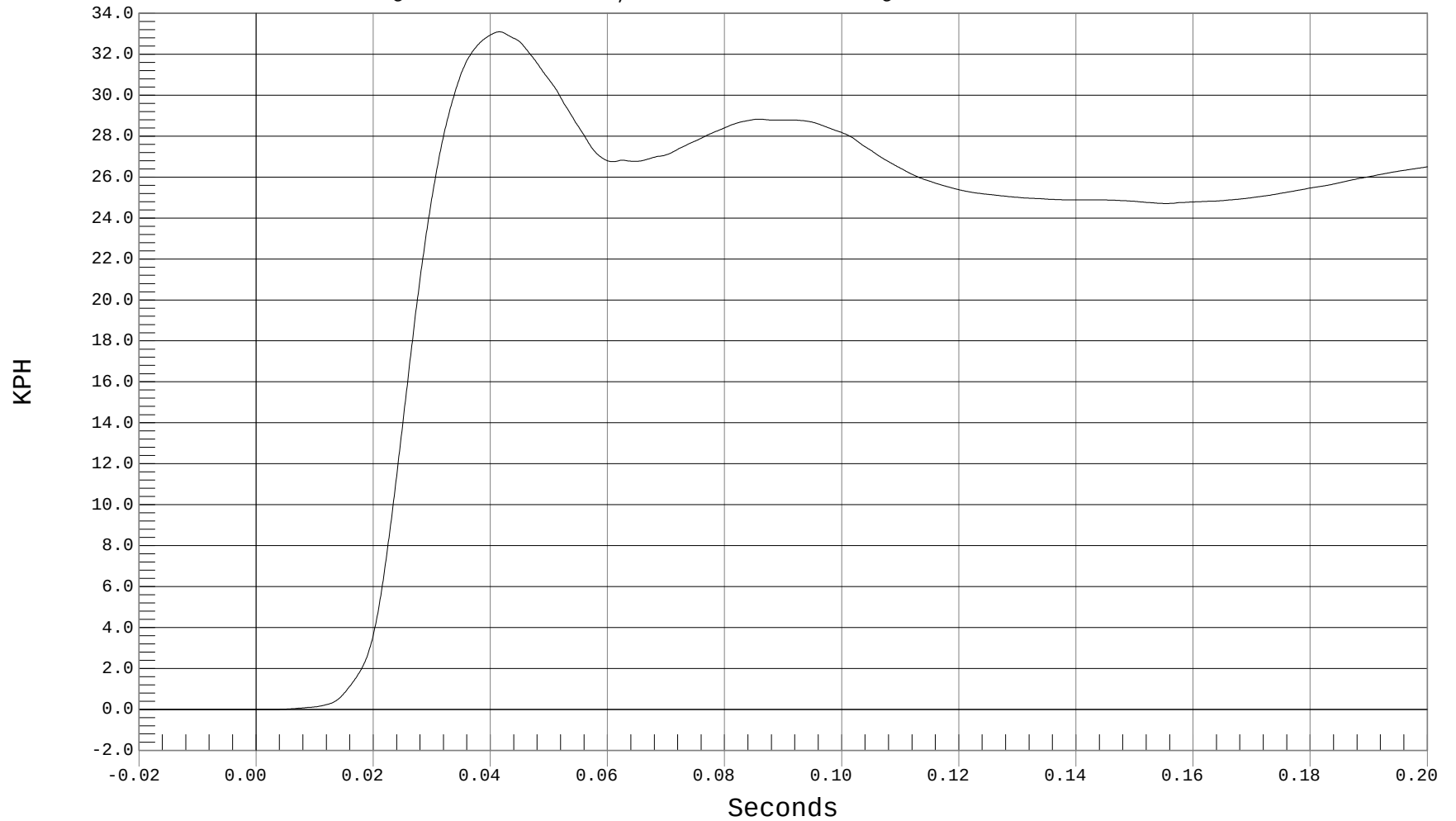
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER PELVIS Y VELOCITY, B01079AI.V07

Ymin = 0 KPH @ -0.0186 Seconds, Ymax = 33.1 KPH @ 0.0414 Seconds





REAR PASSENGER UPPER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

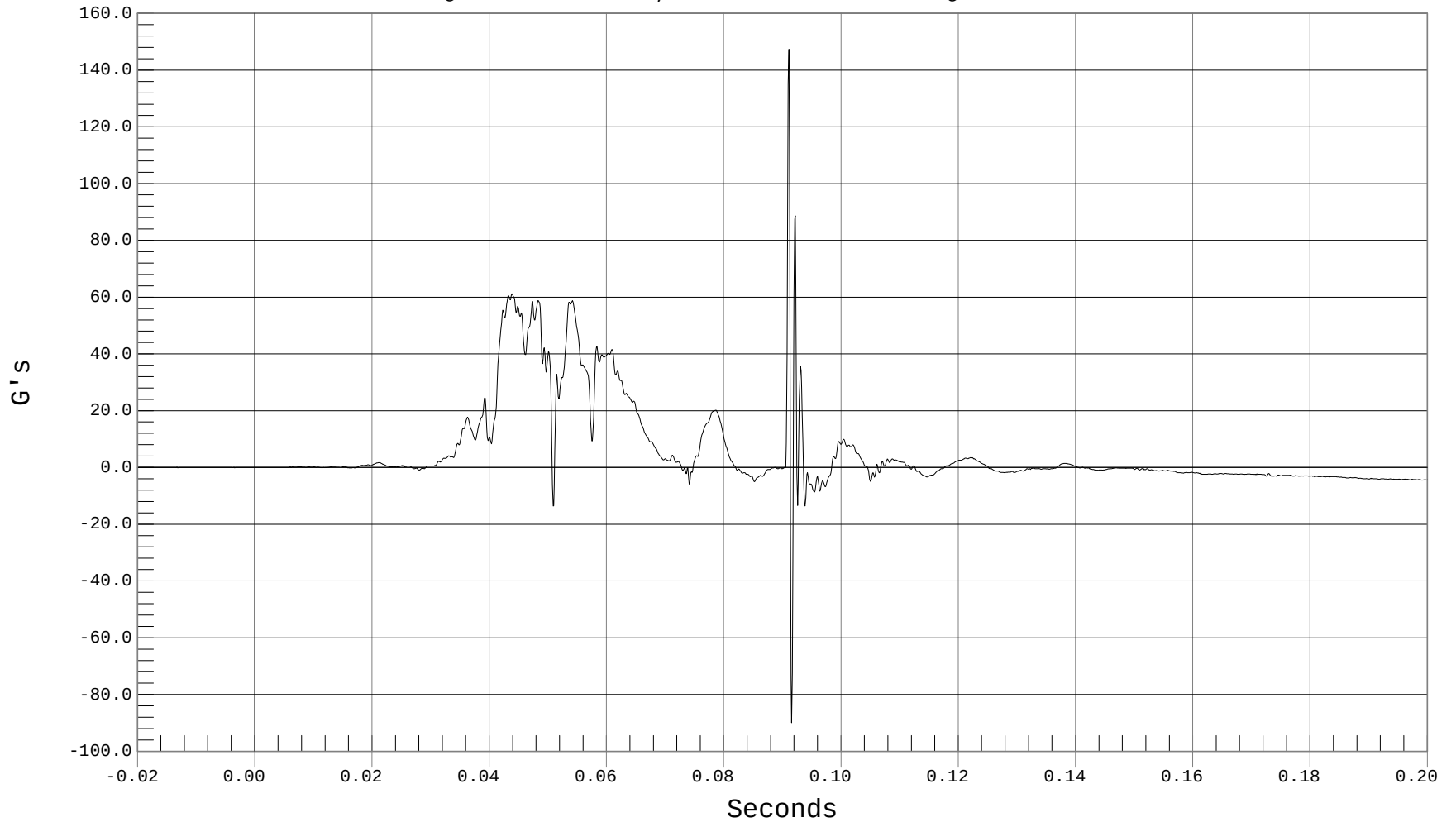
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 PASSENGER UPPER RIB Y, B01079AT.A11

Ymin = -89.92 G's @ 0.0915 Seconds, Ymax = 147.35 G's @ 0.0910 Seconds





REAR PASSENGER UPPER RIB Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

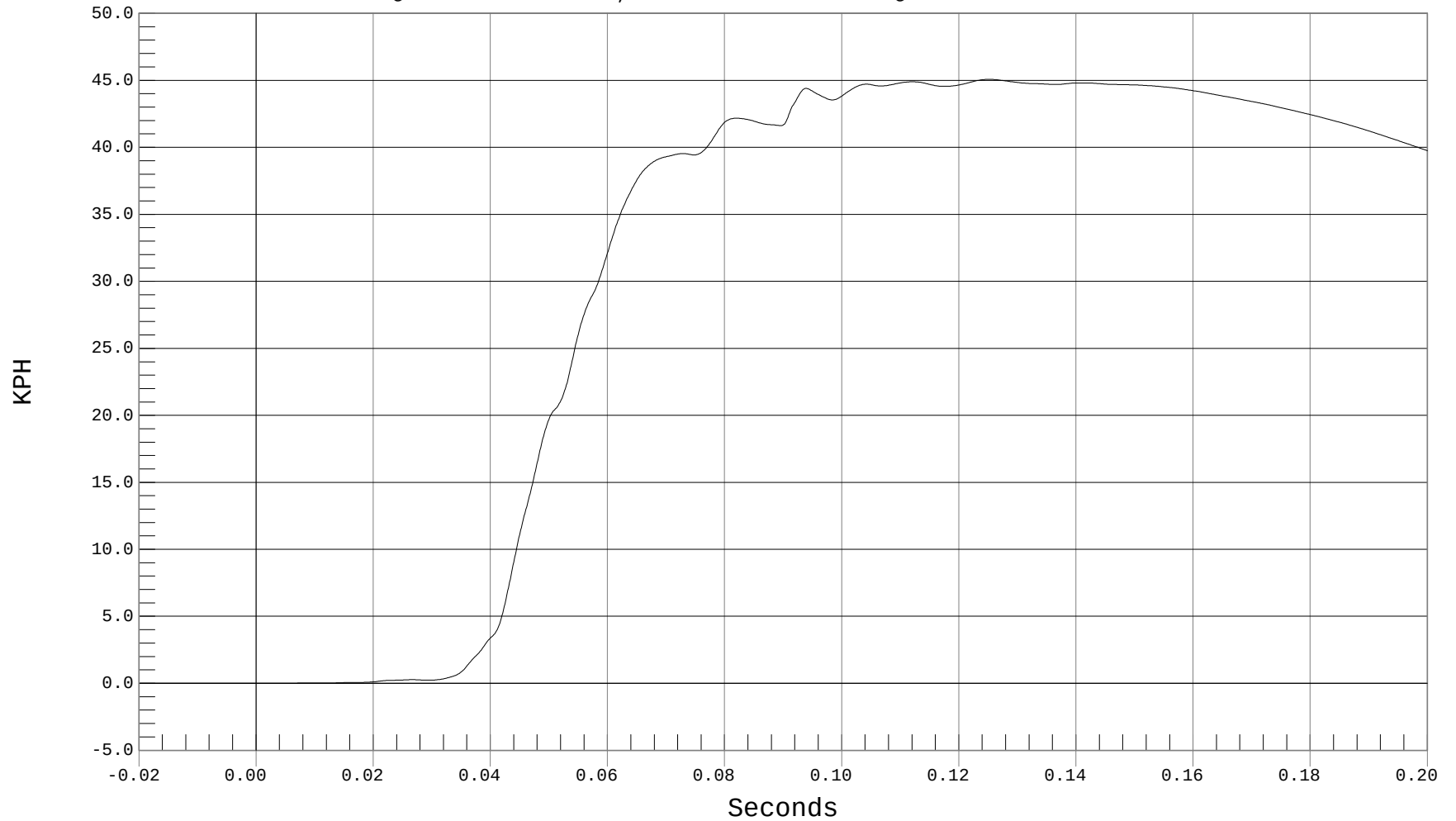
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER UPPER RIB Y VELOCITY, B01079AI.V11

Ymin = 0 KPH @ -0.0189 Seconds, Ymax = 45.08 KPH @ 0.1251 Seconds





REAR PASSENGER LOWER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

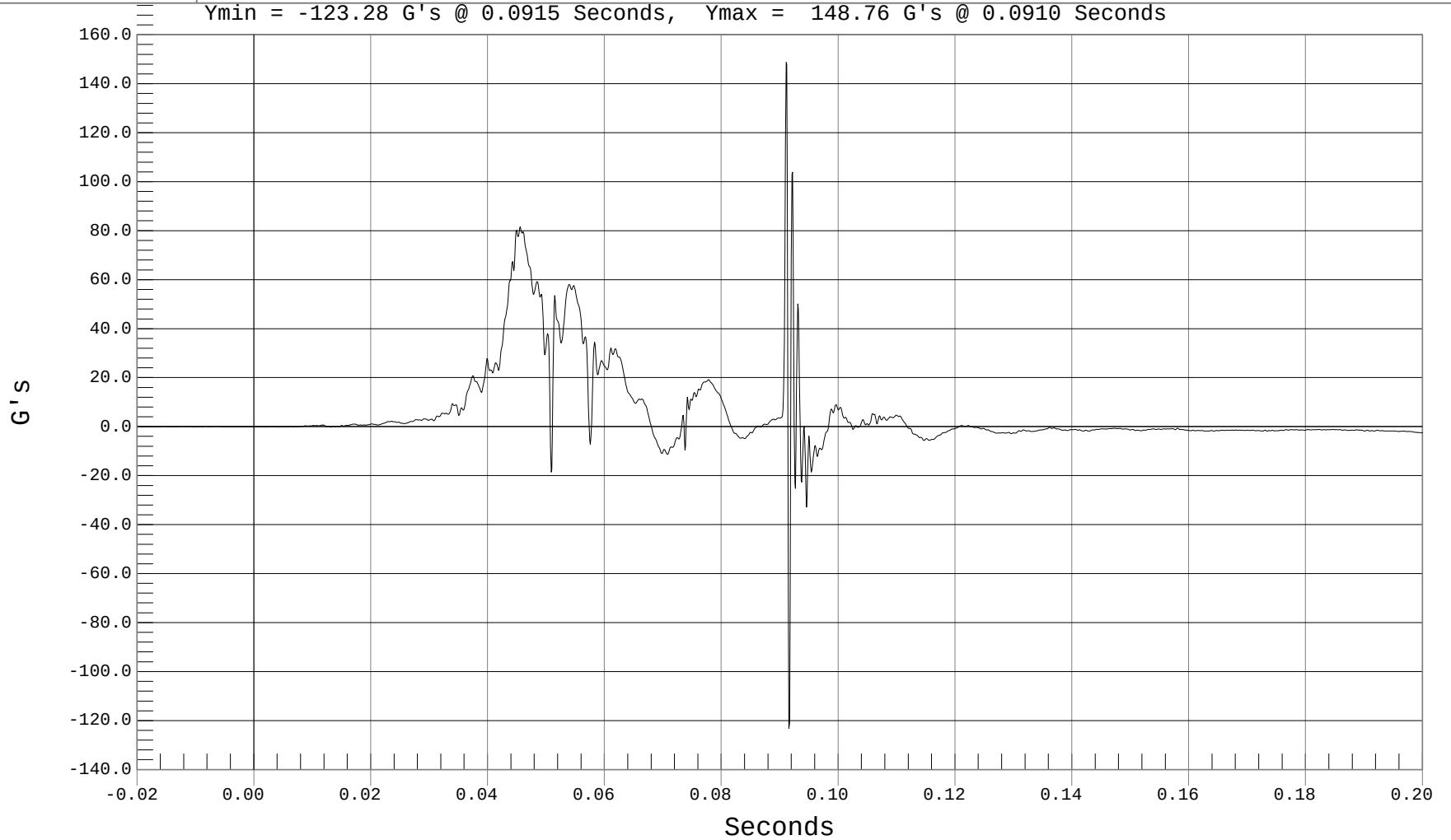
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 PASSENGER LOWER RIB Y, B01079AT.A12

Ymin = -123.28 G's @ 0.0915 Seconds, Ymax = 148.76 G's @ 0.0910 Seconds





REAR PASSENGER LOWER RIB Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

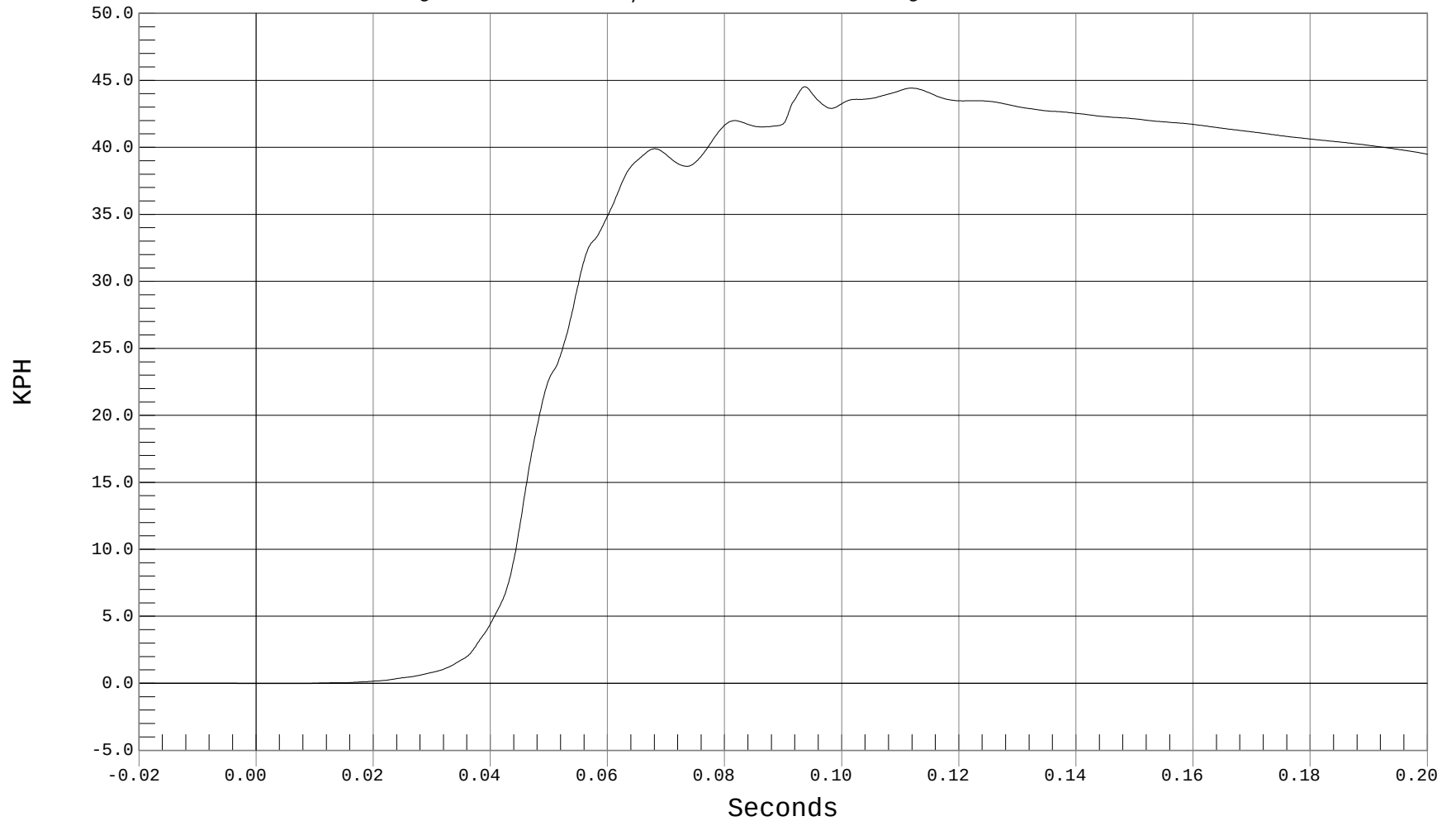
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER LOWER RIB Y VELOCITY, B01079AI.V12

Ymin = -.02 KPH @ 0.0074 Seconds, Ymax = 44.53 KPH @ 0.0936 Seconds





REAR PASSENGER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

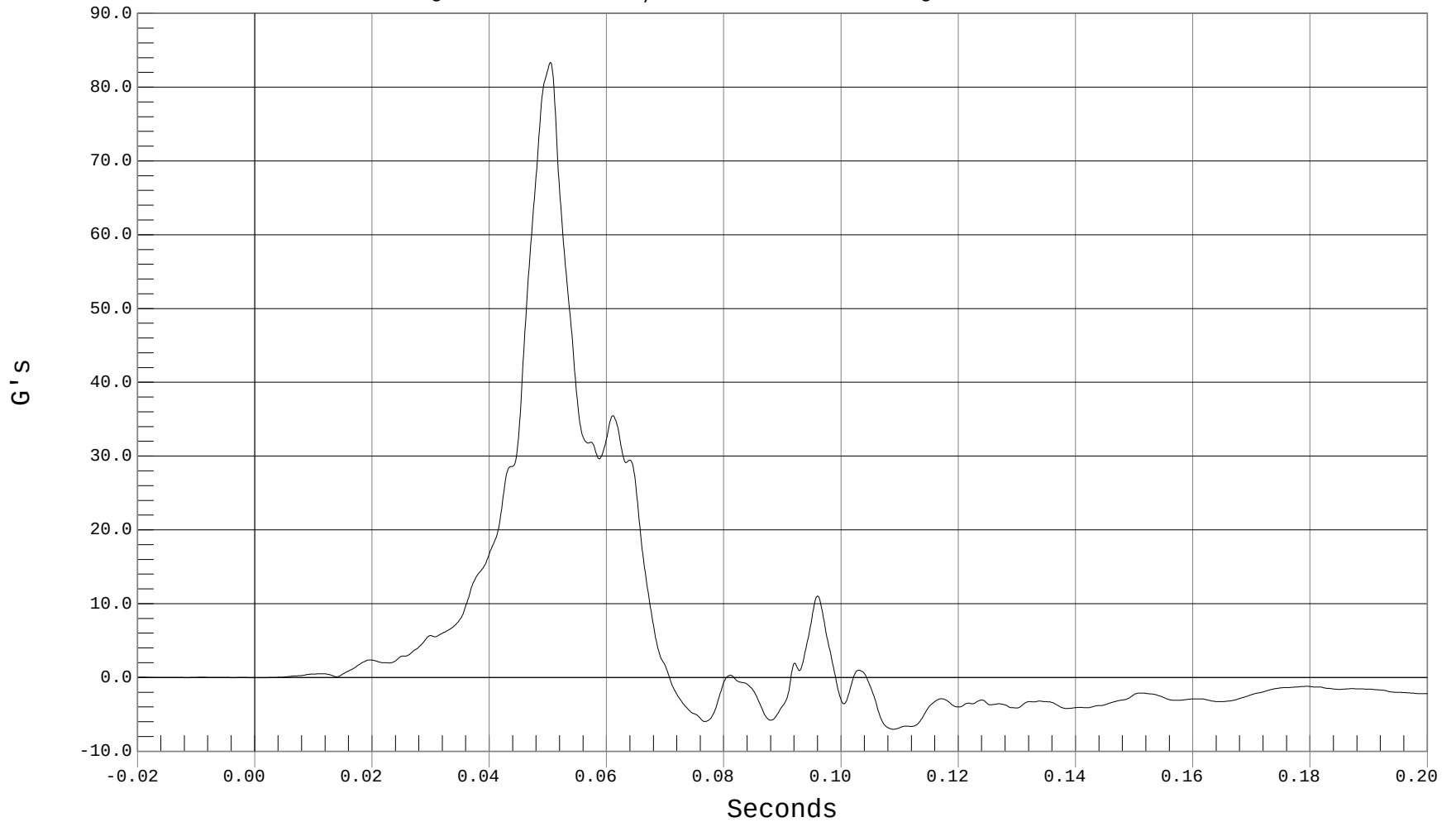
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 PASSENGER LOWER SPINE Y, B01079AF.A13

Ymin = -7.02 G's @ 0.1088 Seconds, Ymax = 83.36 G's @ 0.0504 Seconds





REAR PASSENGER LOWER SPINE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

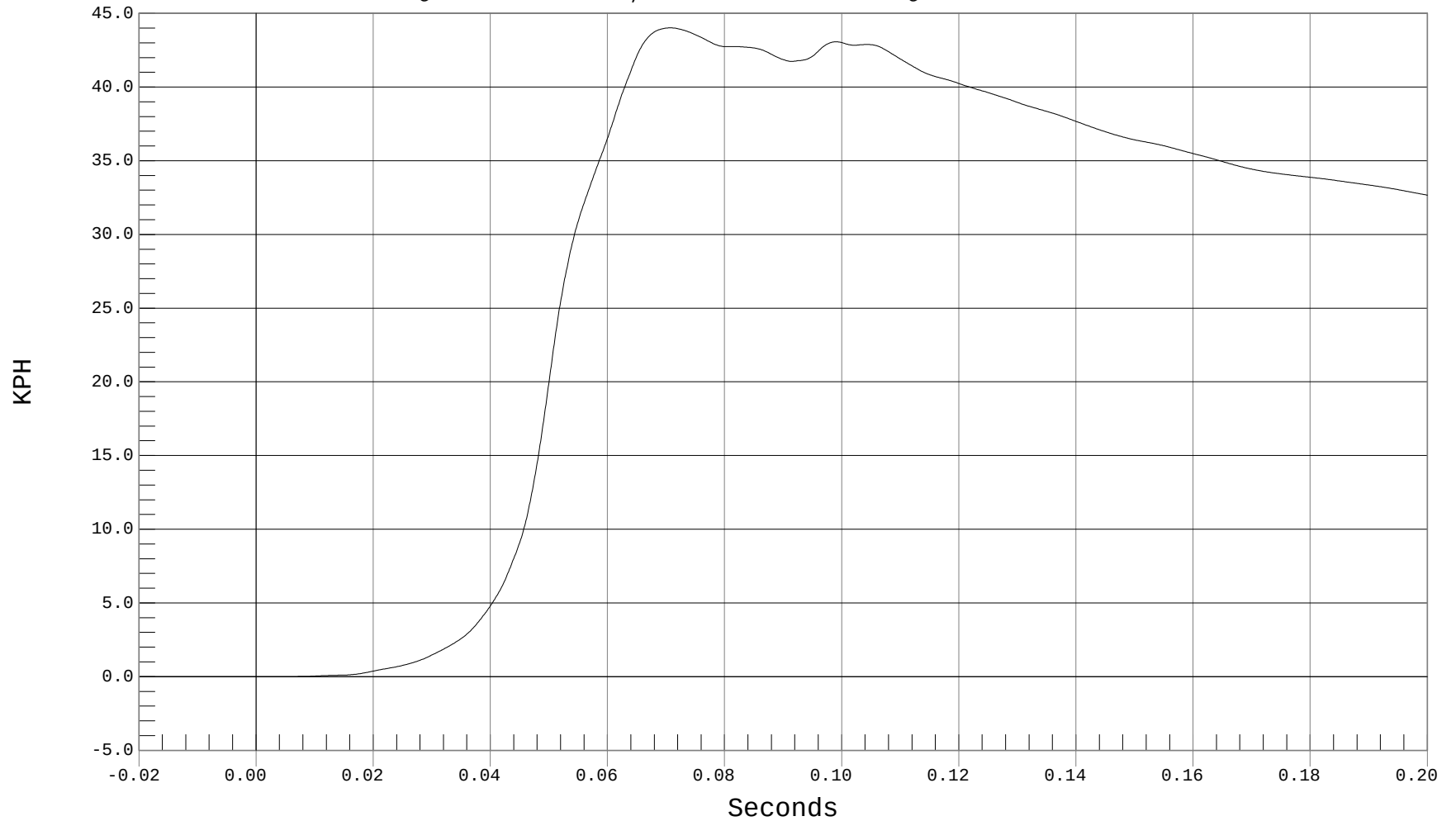
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER LOWER SPINE Y VELOCITY, B01079AI.V13

Ymin = -.01 KPH @ 0.0035 Seconds, Ymax = 44.02 KPH @ 0.0706 Seconds





REAR PASSENGER PELVIS Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

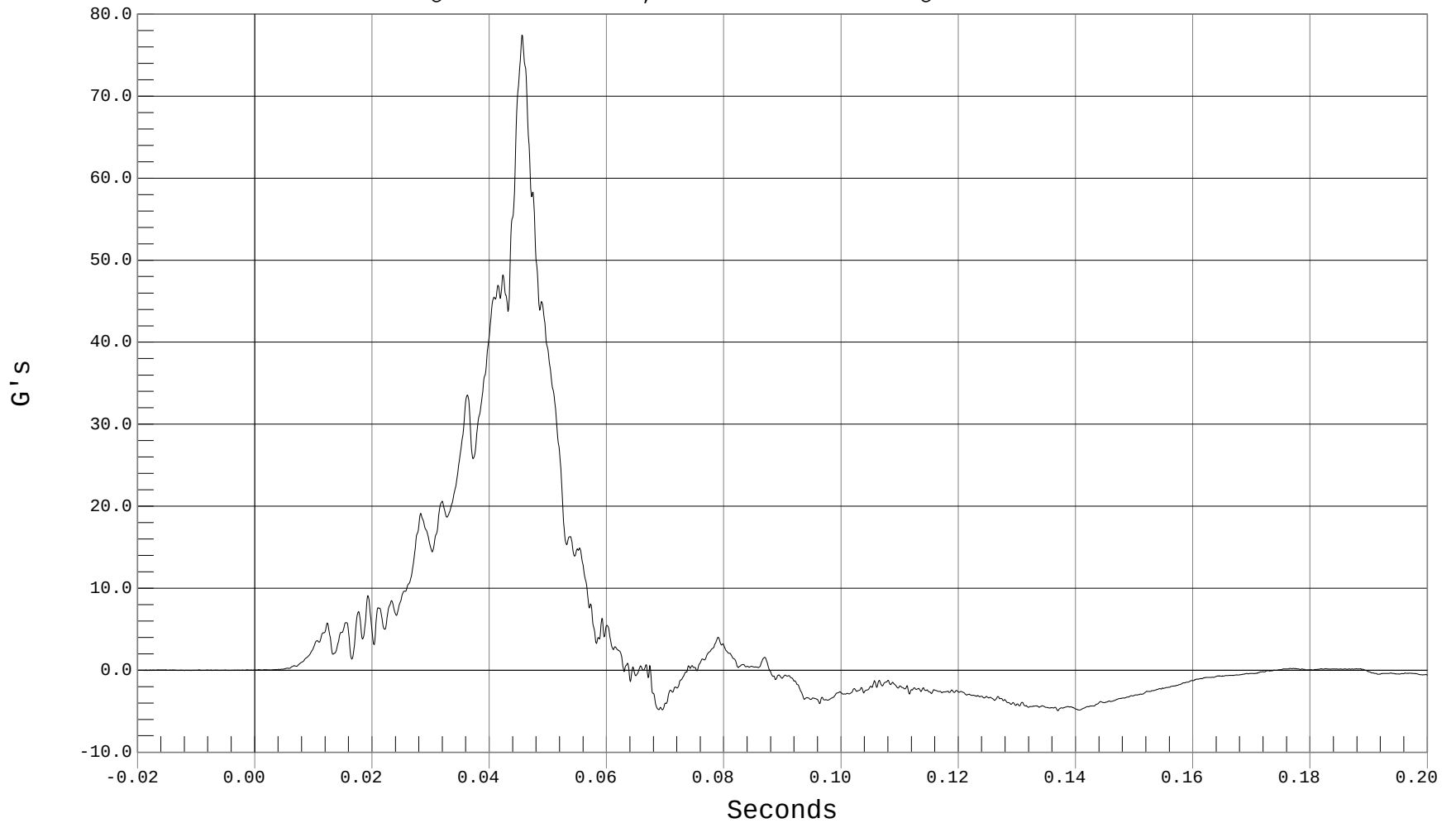
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 PASSENGER PELVIS Y, B01079AT.A14

Ymin = -4.95 G's @ 0.1369 Seconds, Ymax = 77.46 G's @ 0.0455 Seconds





REAR PASSENGER PELVIS Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

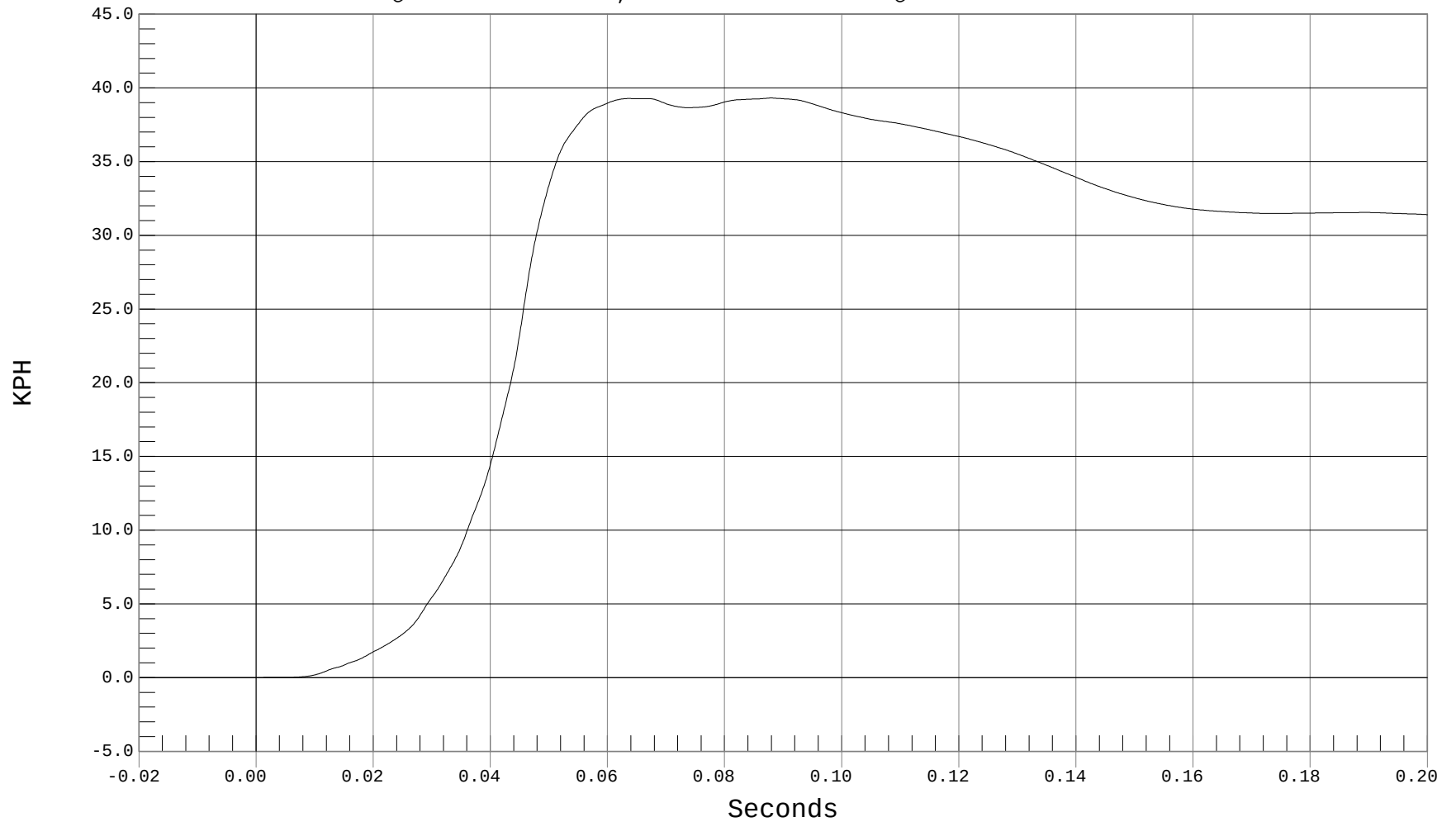
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER PELVIS Y VELOCITY, B01079AI.V14

Ymin = 0 KPH @ -0.0176 Seconds, Ymax = 39.31 KPH @ 0.0878 Seconds





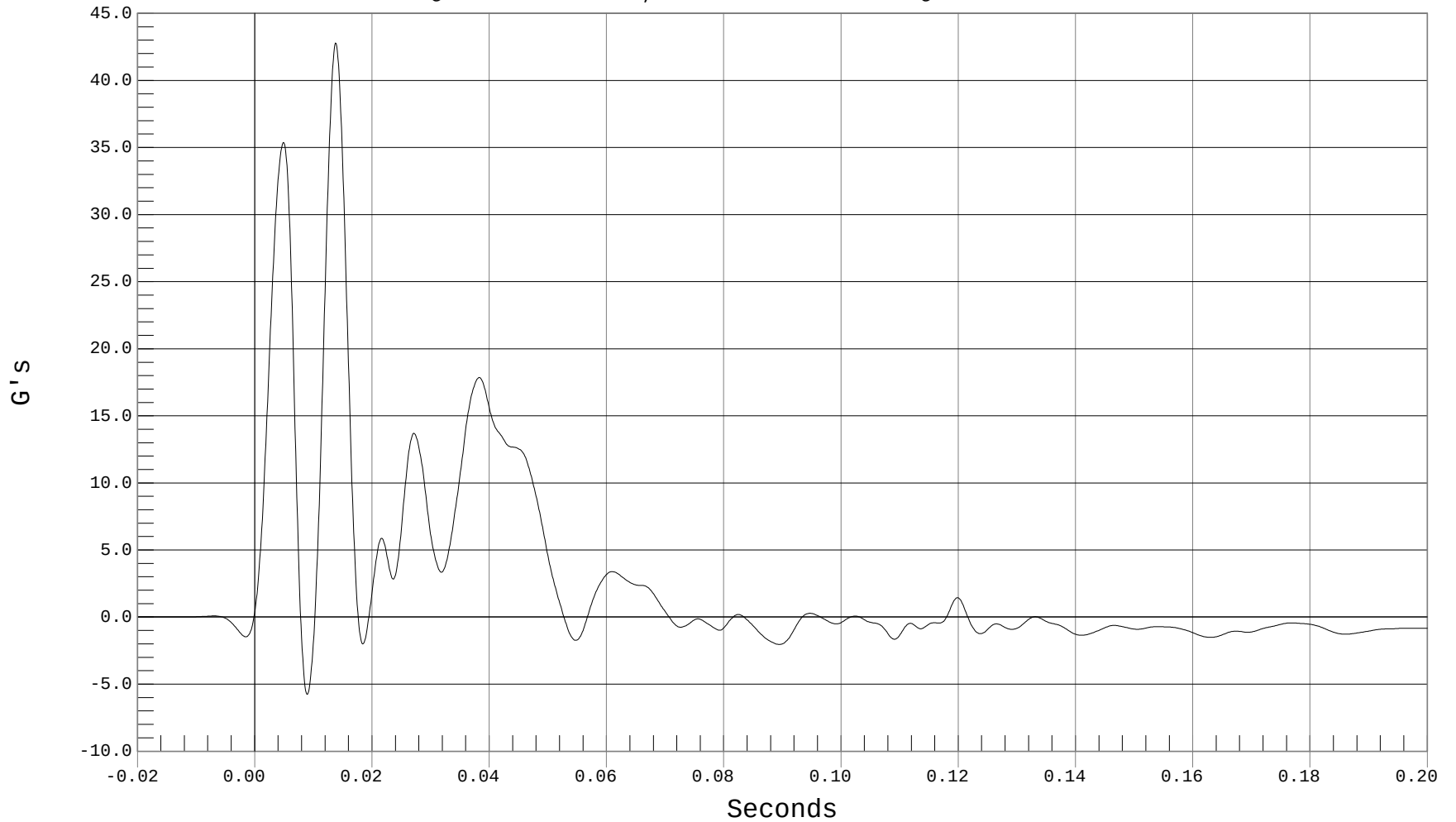
LEFT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT FRONT SILL Y, B01079AF.A21

Ymin = -5.76 G's @ 0.0089 Seconds, Ymax = 42.79 G's @ 0.0137 Seconds





LEFT SIDE SILL AT FRONT SEAT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

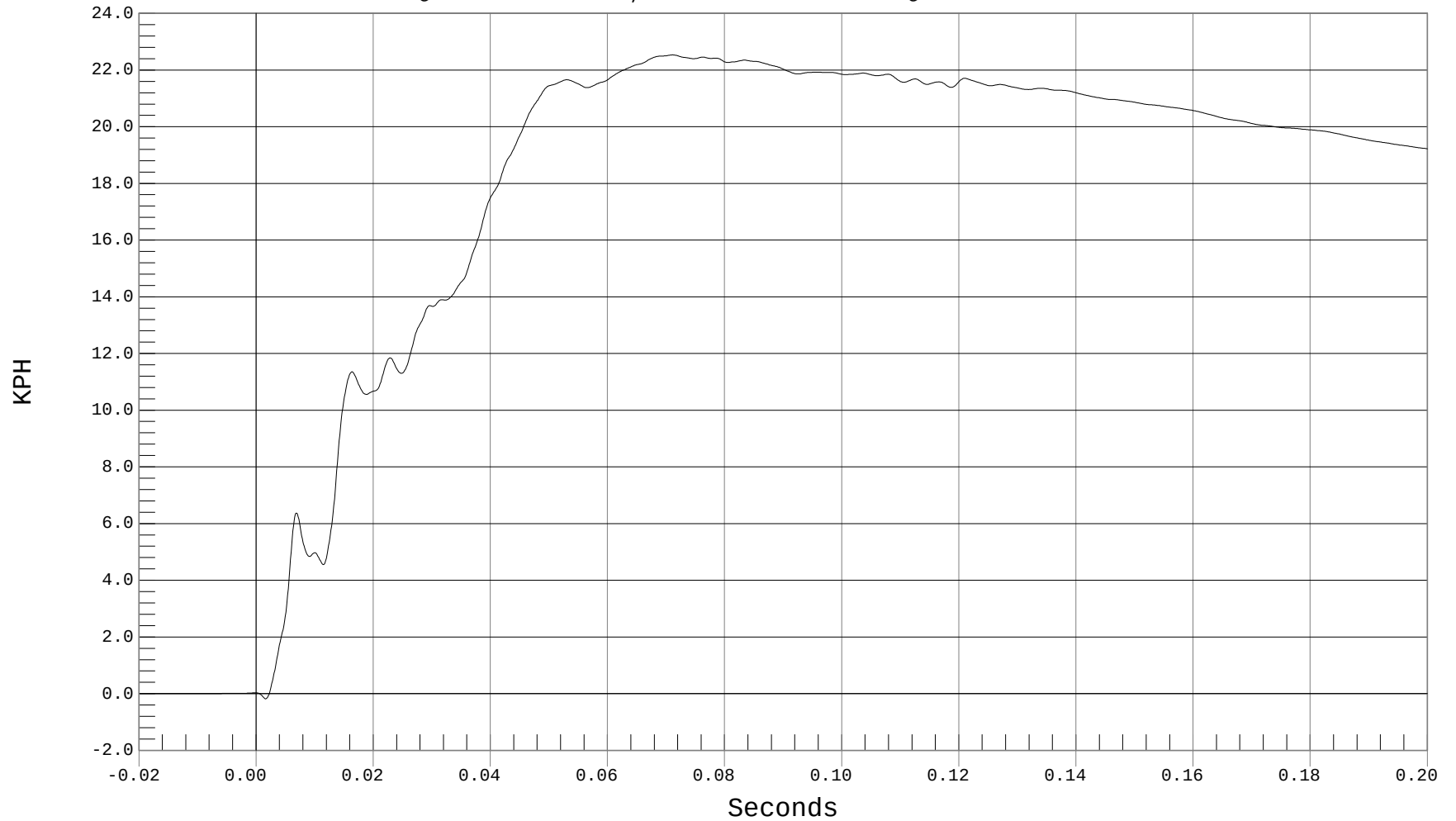
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT SIDE SILL AT FRONT SEAT Y VELOCITY, B01079AI.V21

Ymin = -.18 KPH @ 0.0016 Seconds, Ymax = 22.53 KPH @ 0.0710 Seconds





LEFT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

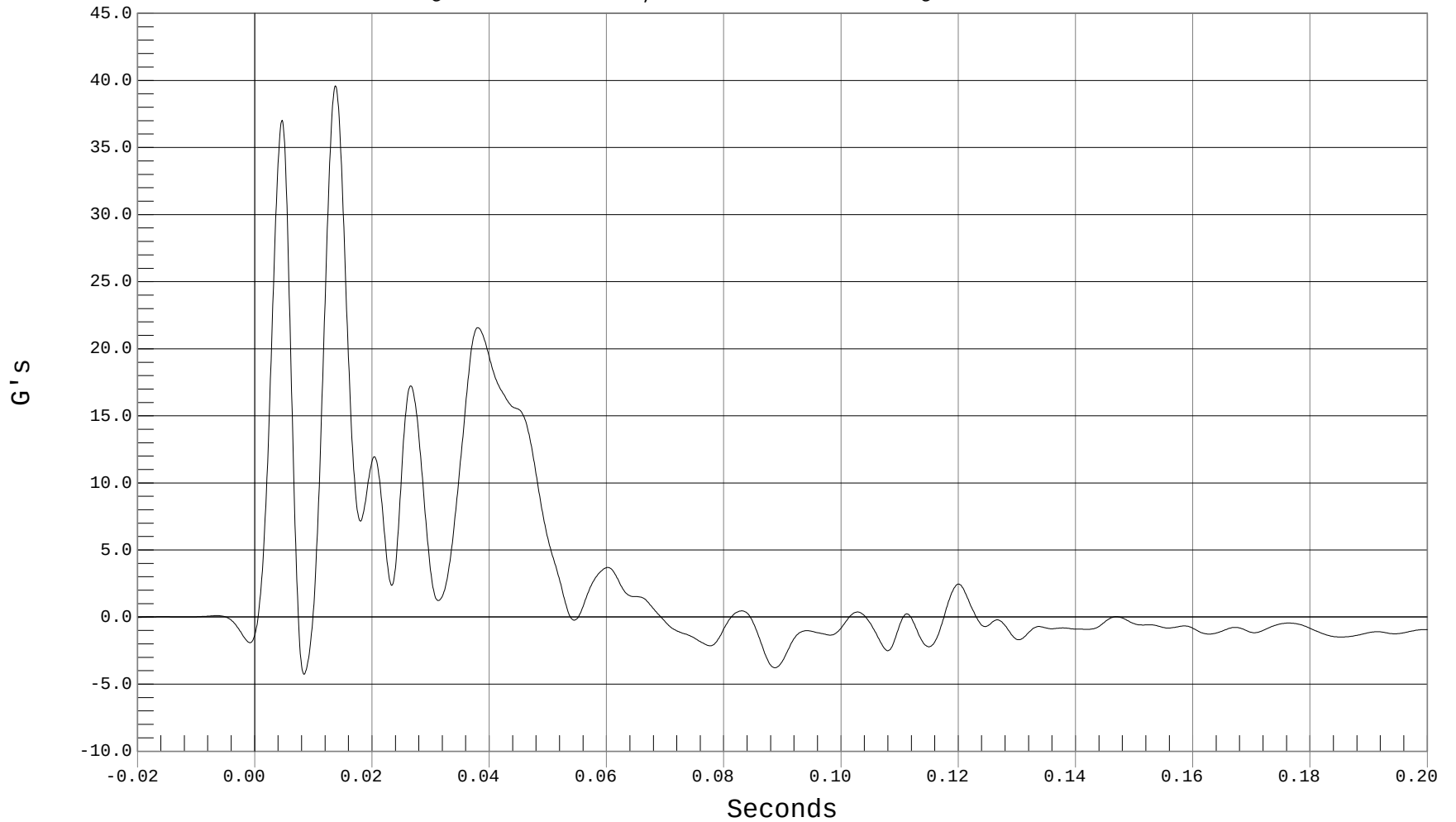
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 LEFT REAR SILL Y, B01079AF.A22

Ymin = -4.27 G's @ 0.0083 Seconds, Ymax = 39.59 G's @ 0.0137 Seconds





LEFT SIDE SILL AT REAR SEAT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

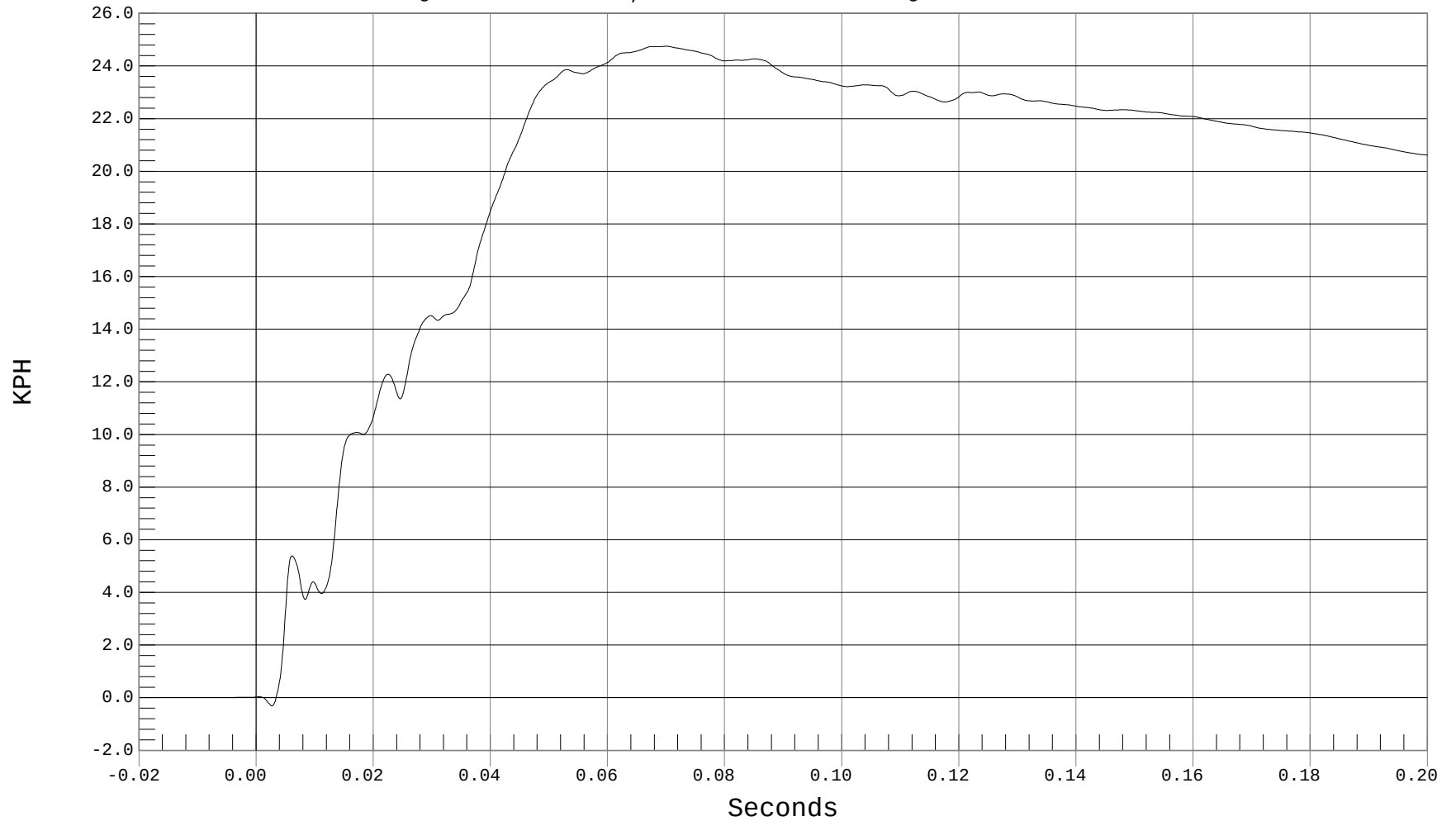
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT SIDE SILL AT REAR SEAT Y VELOCITY, B01079AI.V22

Ymin = -.31 KPH @ 0.0026 Seconds, Ymax = 24.75 KPH @ 0.0700 Seconds





RIGHT SIDE SILL AT FRONT SEAT X ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

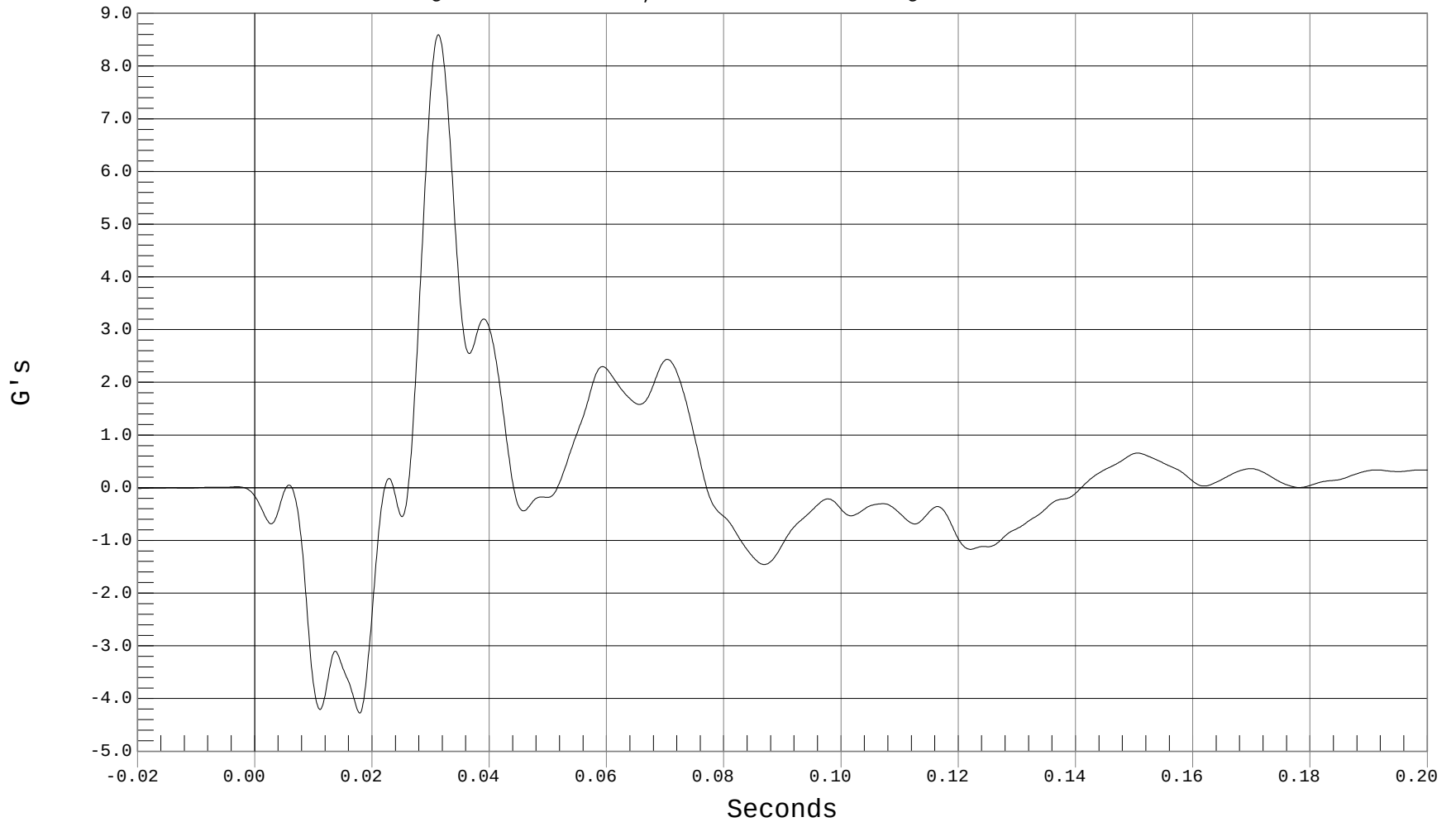
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT FRONT SILL X, B01079AF.A15

Ymin = -4.27 G's @ 0.0178 Seconds, Ymax = 8.59 G's @ 0.0312 Seconds





RIGHT SIDE SILL AT FRONT SEAT X VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

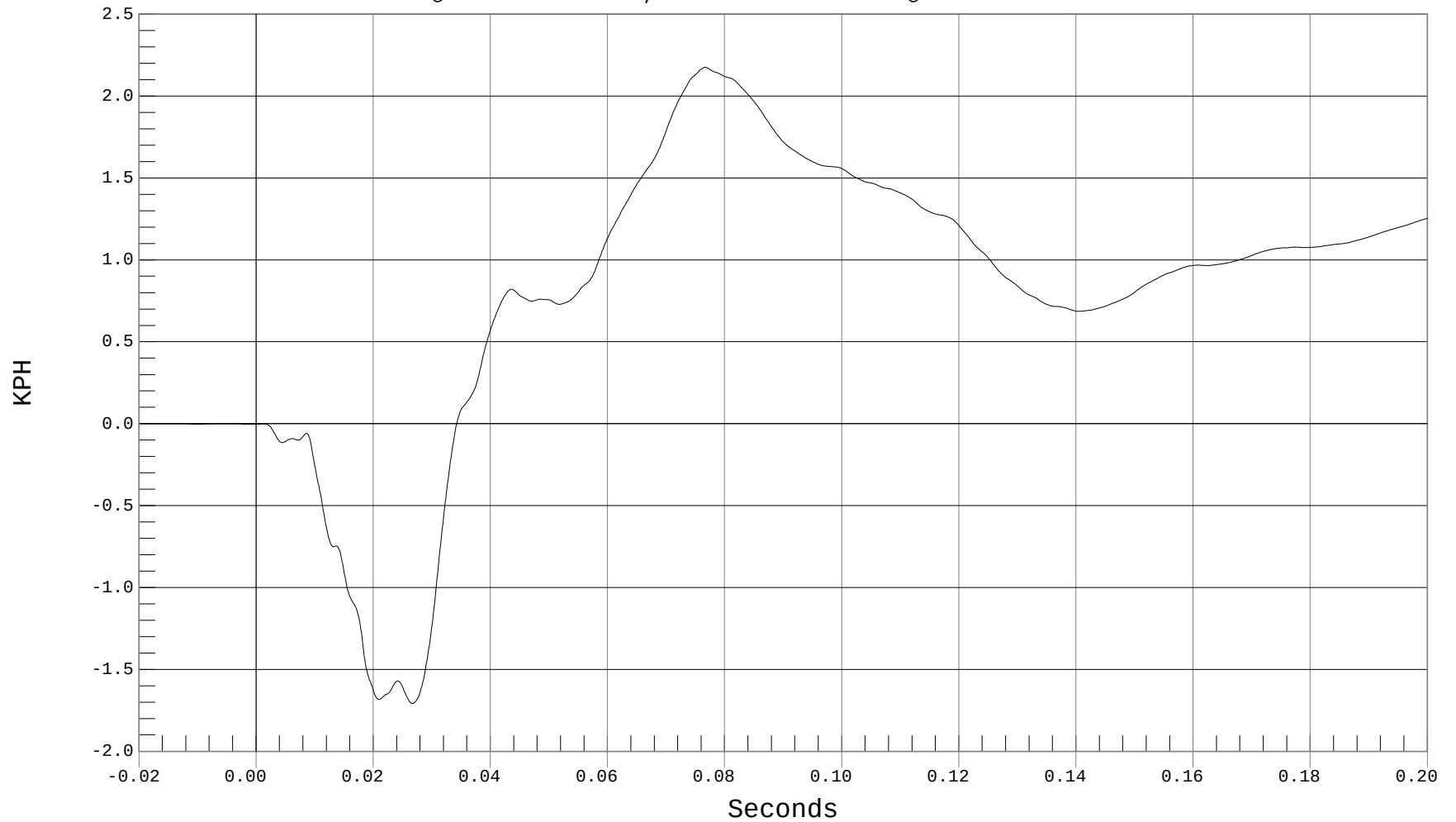
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT SIDE SILL AT FRONT SEAT X VELOCITY, B01079AI.V15

Ymin = -1.71 KPH @ 0.0266 Seconds, Ymax = 2.18 KPH @ 0.0766 Seconds





RIGHT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

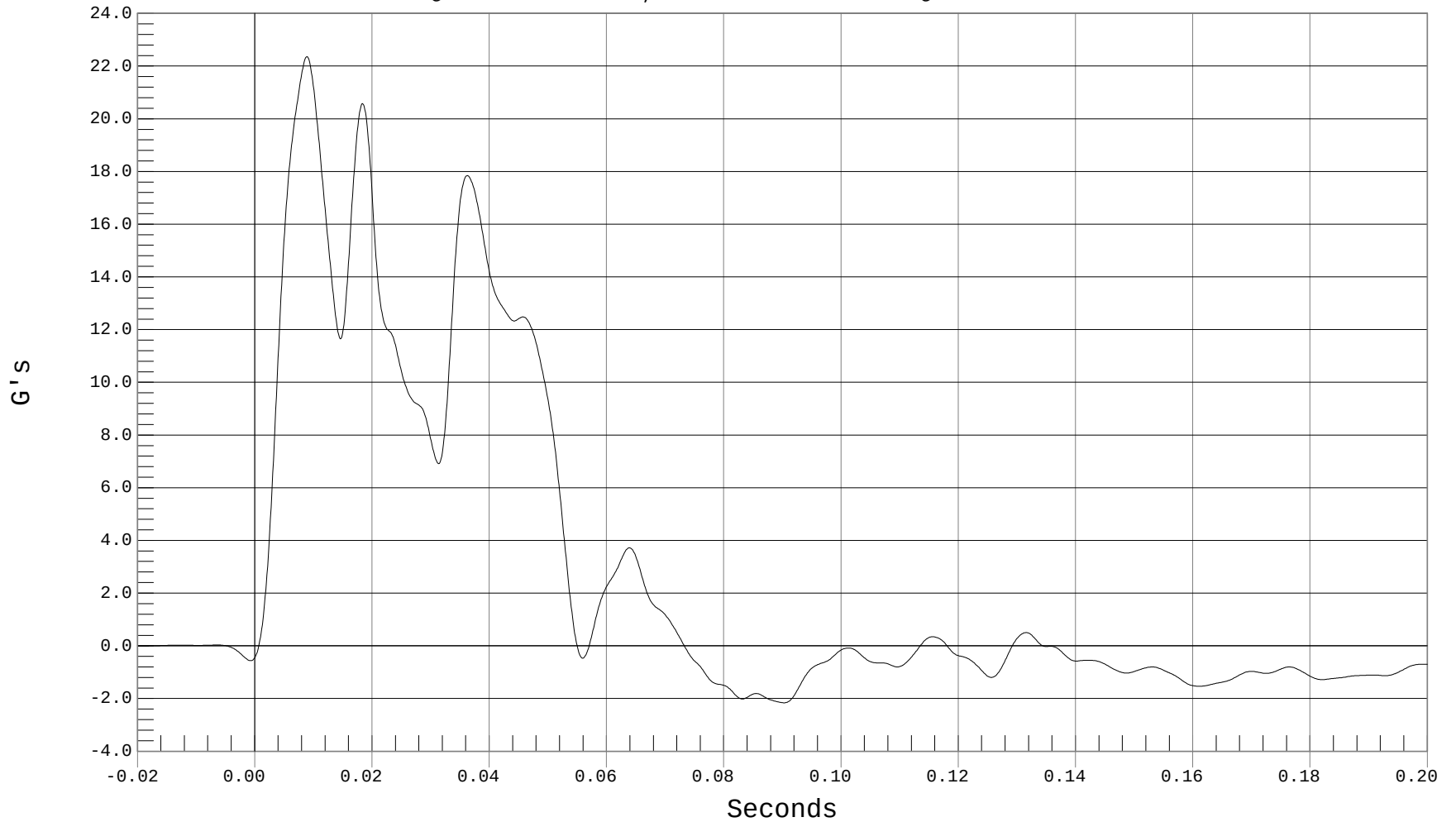
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT FRONT SILL Y, B01079AF.A16

Ymin = -2.16 G's @ 0.0902 Seconds, Ymax = 22.36 G's @ 0.0088 Seconds





RIGHT SIDE SILL AT FRONT SEAT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

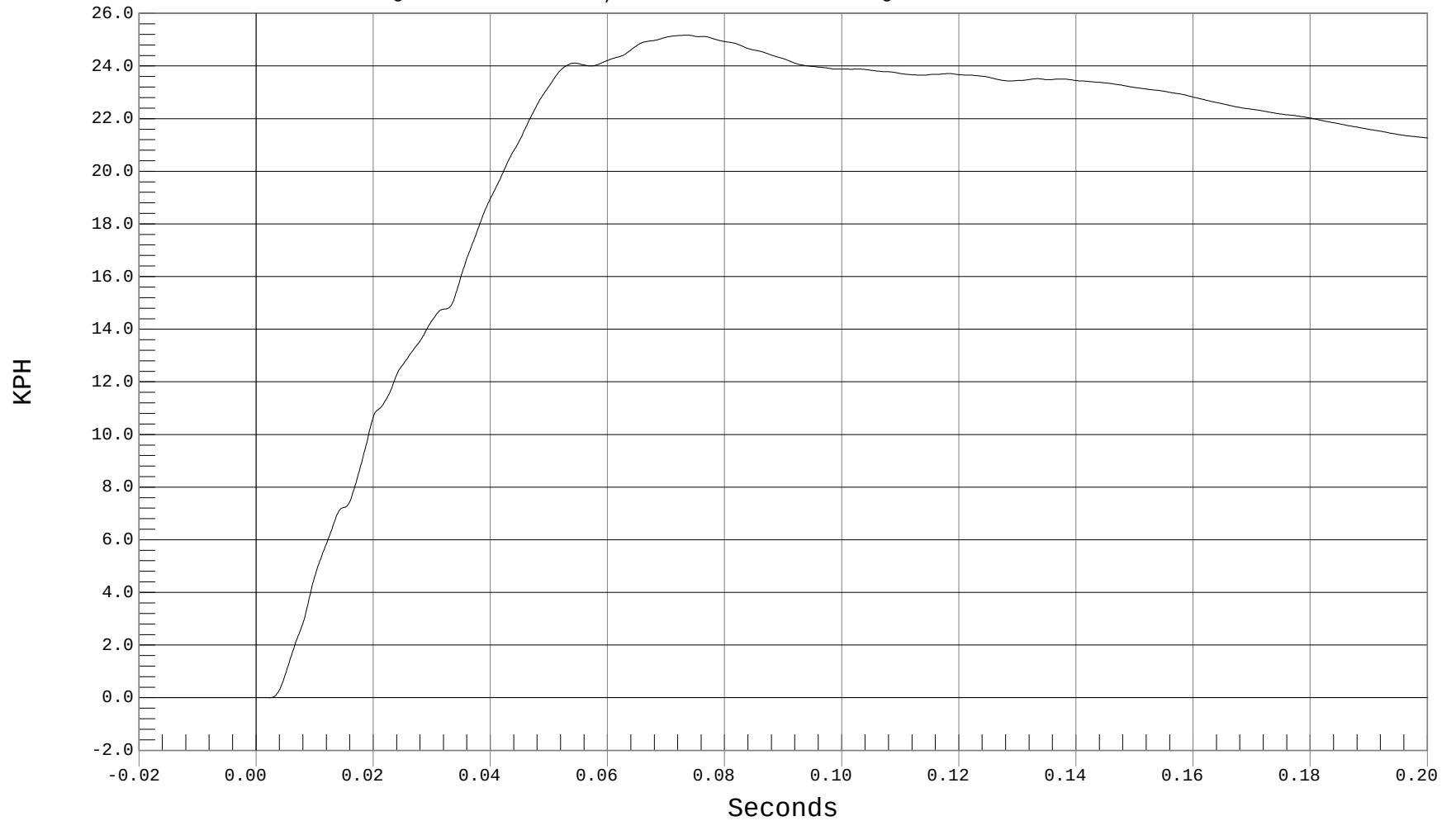
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT SIDE SILL AT FRONT SEAT Y VELOCITY, B01079AI.V16

Ymin = 0 KPH @ 0.0022 Seconds, Ymax = 25.17 KPH @ 0.0735 Seconds





RIGHT SIDE SILL AT FRONT SEAT Z ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

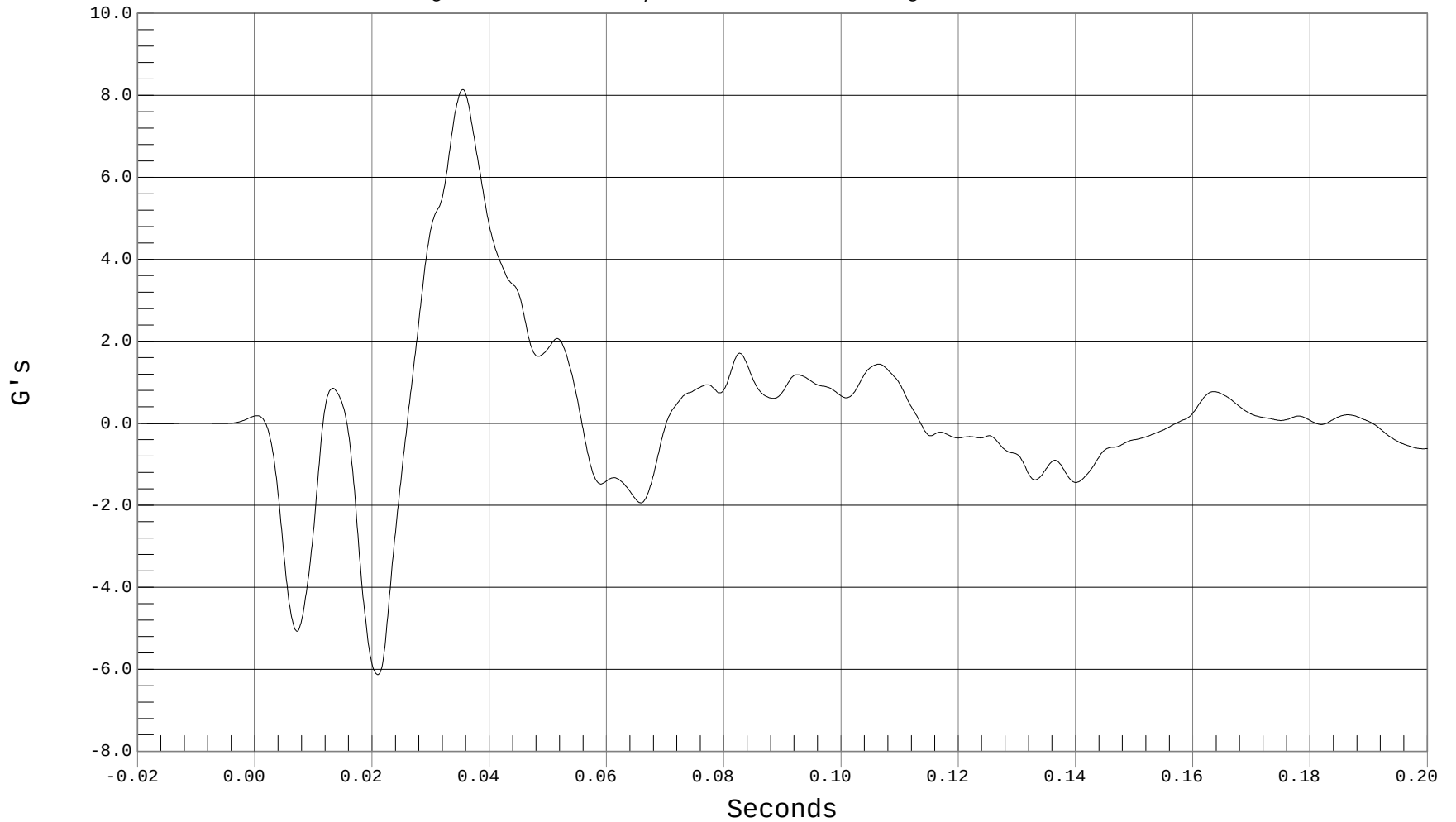
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT FRONT SILL Z, B01079AF.A17

Ymin = -6.13 G's @ 0.0209 Seconds, Ymax = 8.14 G's @ 0.0354 Seconds





RIGHT SIDE SILL AT FRONT SEAT Z VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

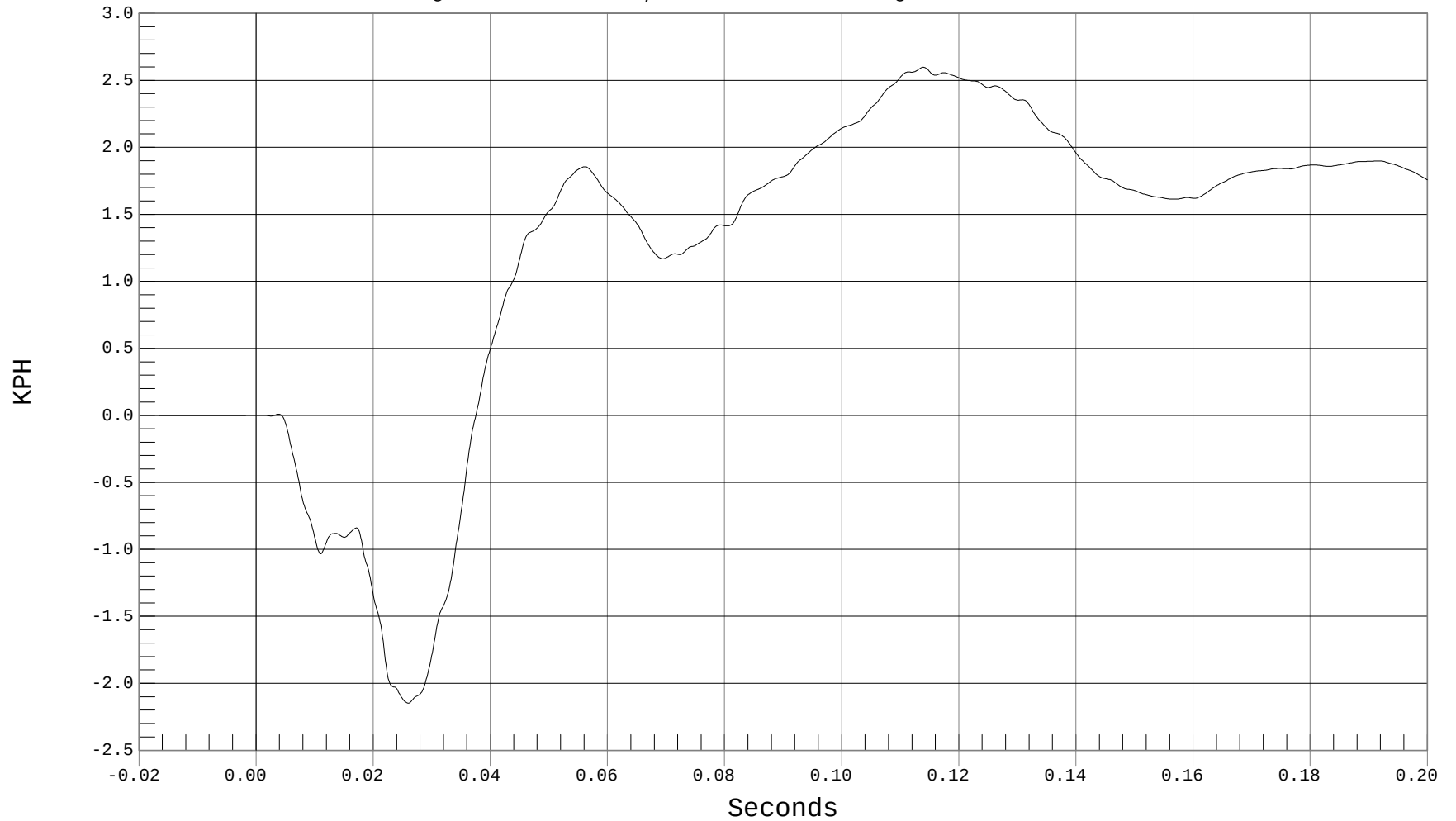
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT SIDE SILL AT FRONT SEAT Z VELOCITY, B01079AI.V17

Ymin = -2.15 KPH @ 0.0259 Seconds, Ymax = 2.6 KPH @ 0.1138 Seconds





RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

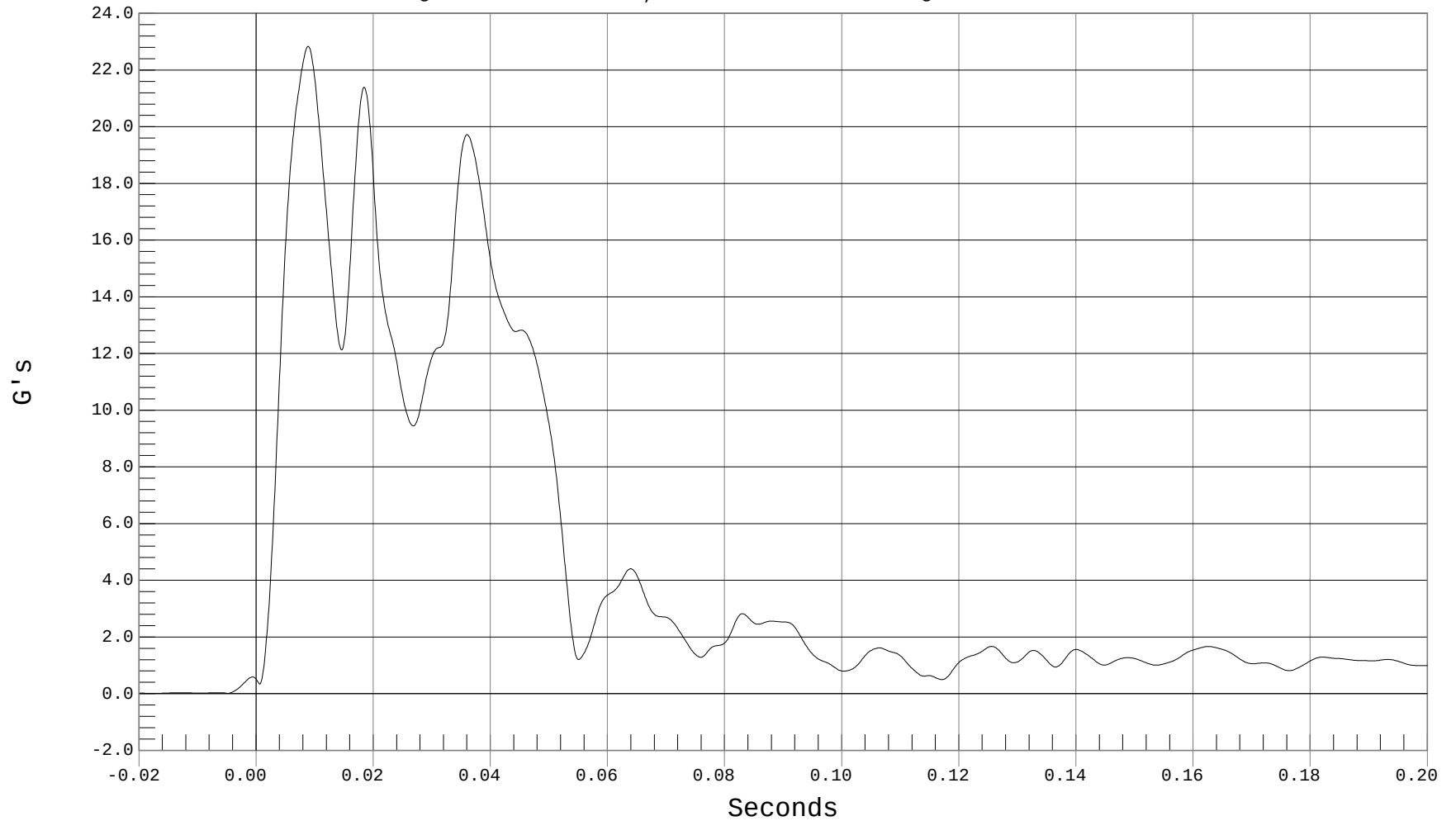
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION, B01079AV.A15

Ymin = .01 G's @ -0.0049 Seconds, Ymax = 22.83 G's @ 0.0088 Seconds





RIGHT SIDE SILL AT REAR SEAT X ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

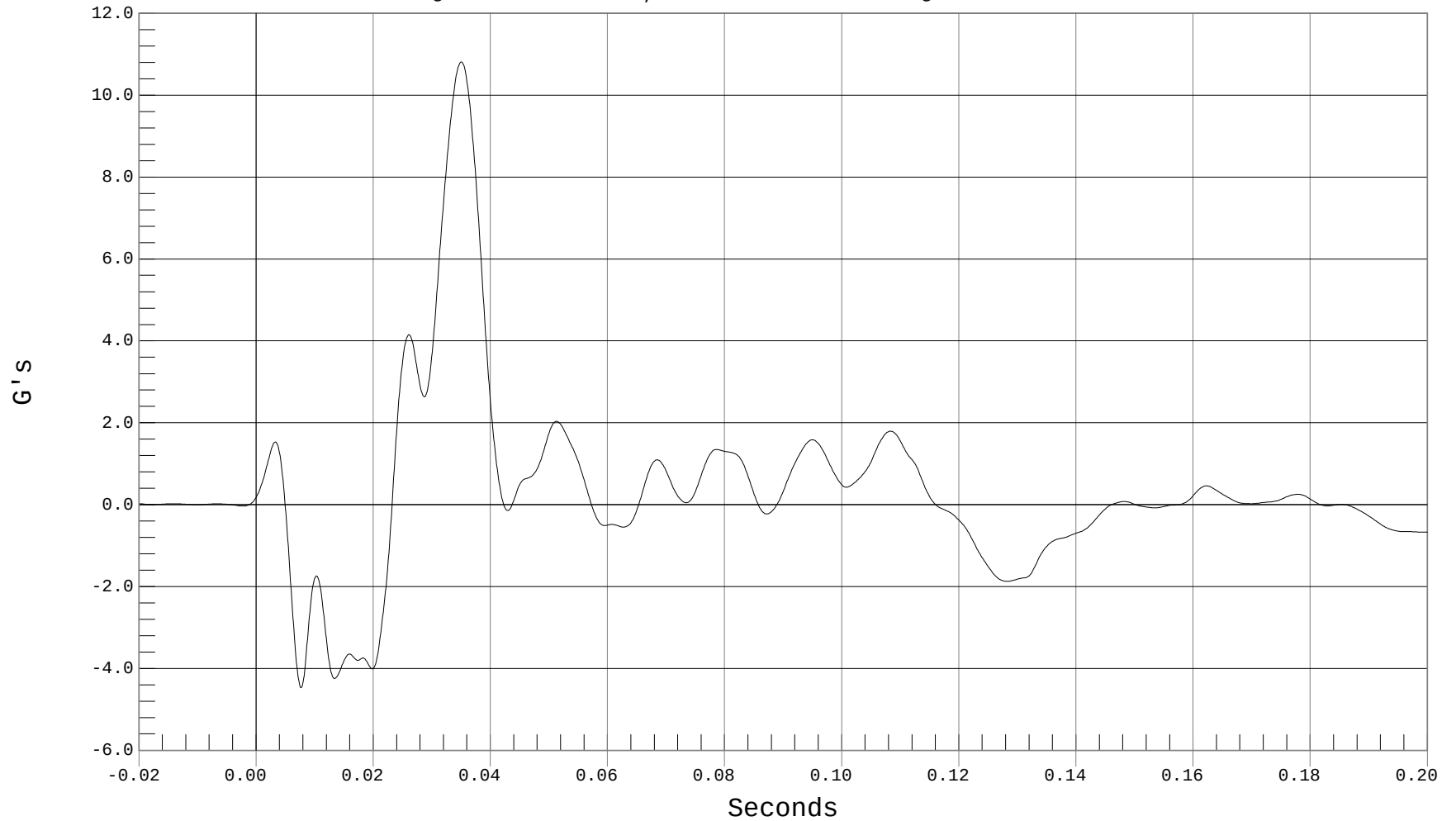
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT REAR SILL X, B01079AF.A18

Ymin = -4.47 G's @ 0.0076 Seconds, Ymax = 10.81 G's @ 0.0349 Seconds





RIGHT SIDE SILL AT REAR SEAT X VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

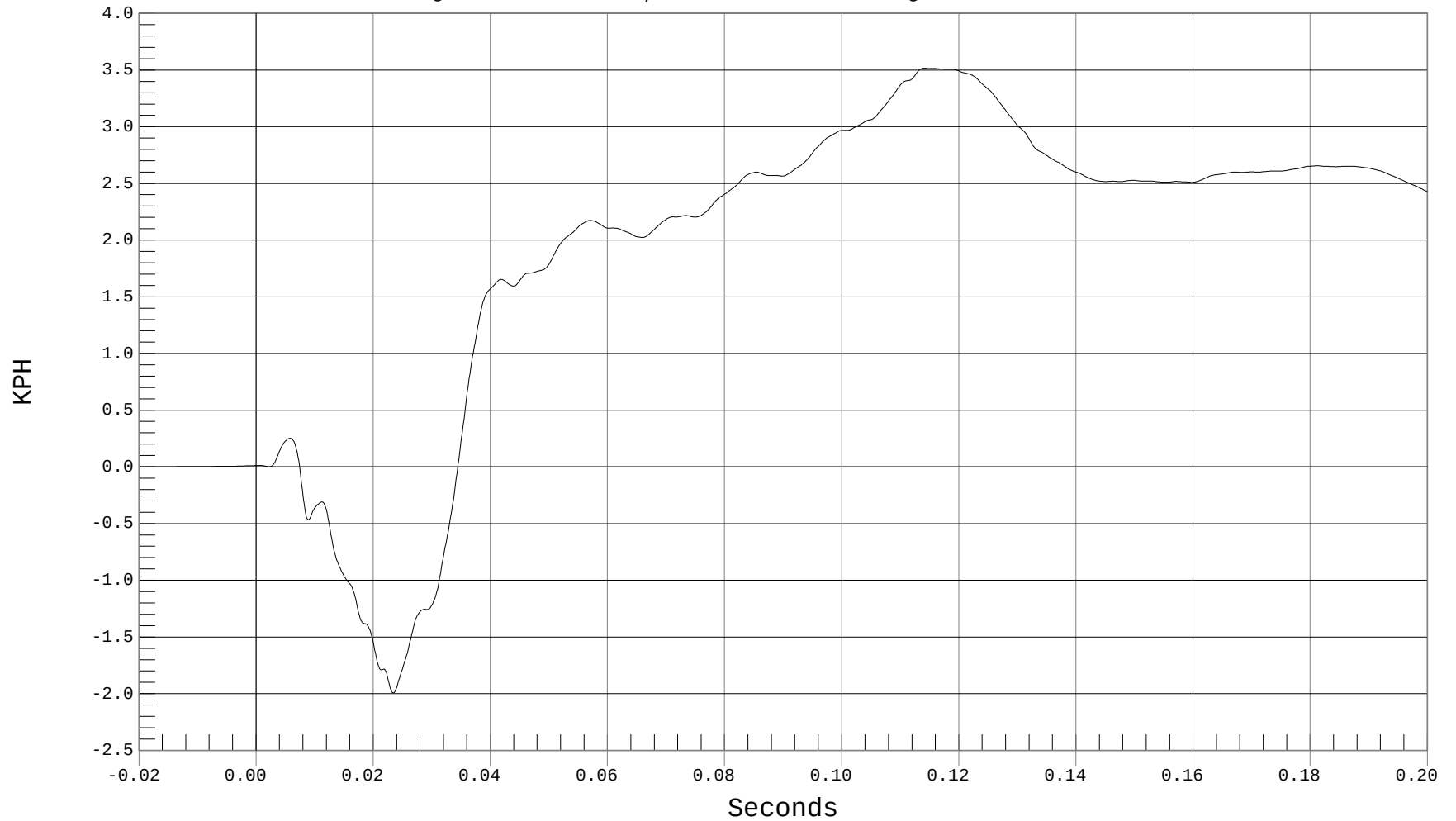
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT SIDE SILL AT REAR SEAT X VELOCITY, B01079AI.V18

Ymin = -1.99 KPH @ 0.0233 Seconds, Ymax = 3.52 KPH @ 0.1141 Seconds





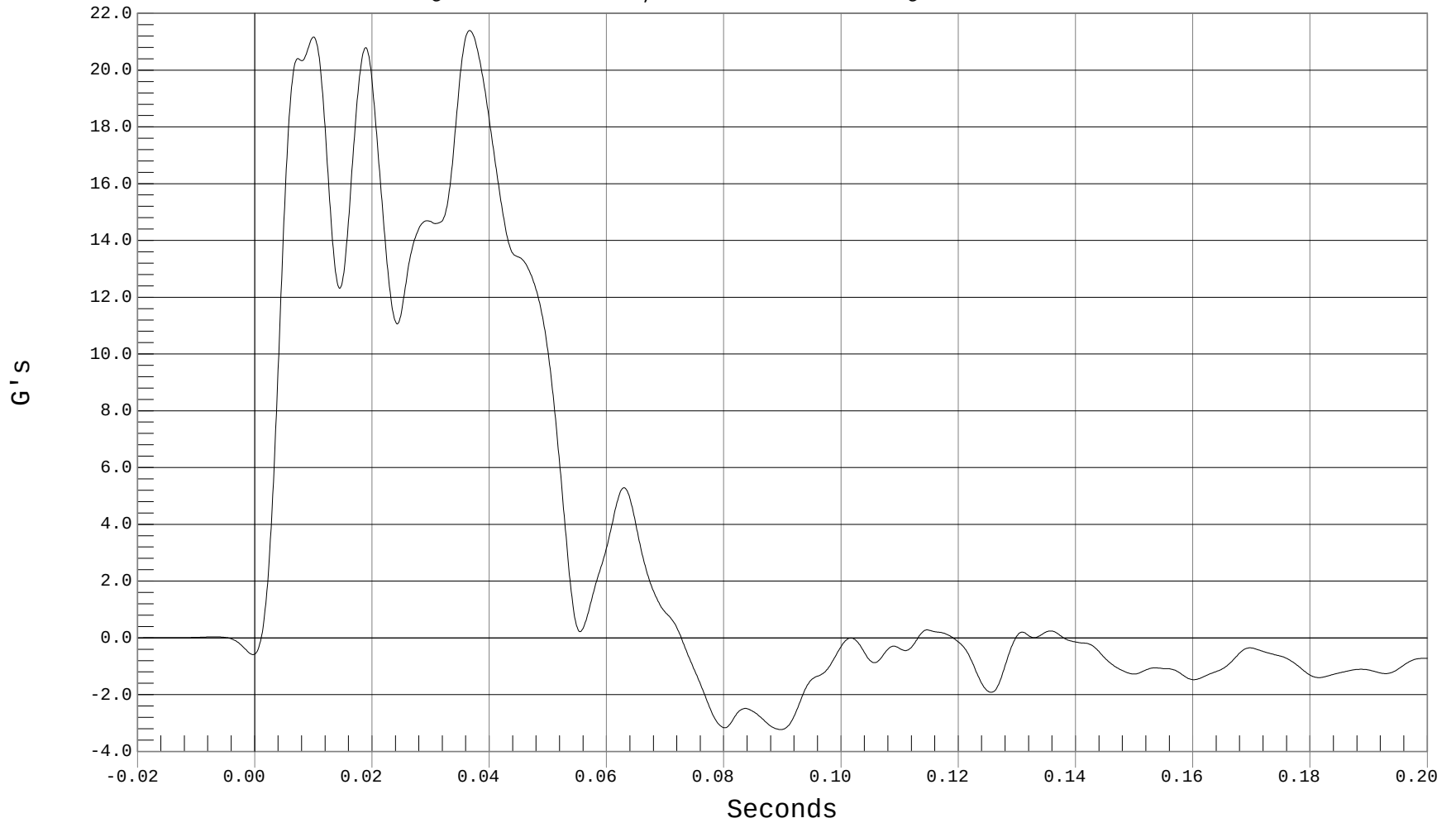
RIGHT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR SILL Y, B01079AF.A19

Ymin = -3.23 G's @ 0.0896 Seconds, Ymax = 21.4 G's @ 0.0366 Seconds





RIGHT SIDE SILL AT REAR SEAT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

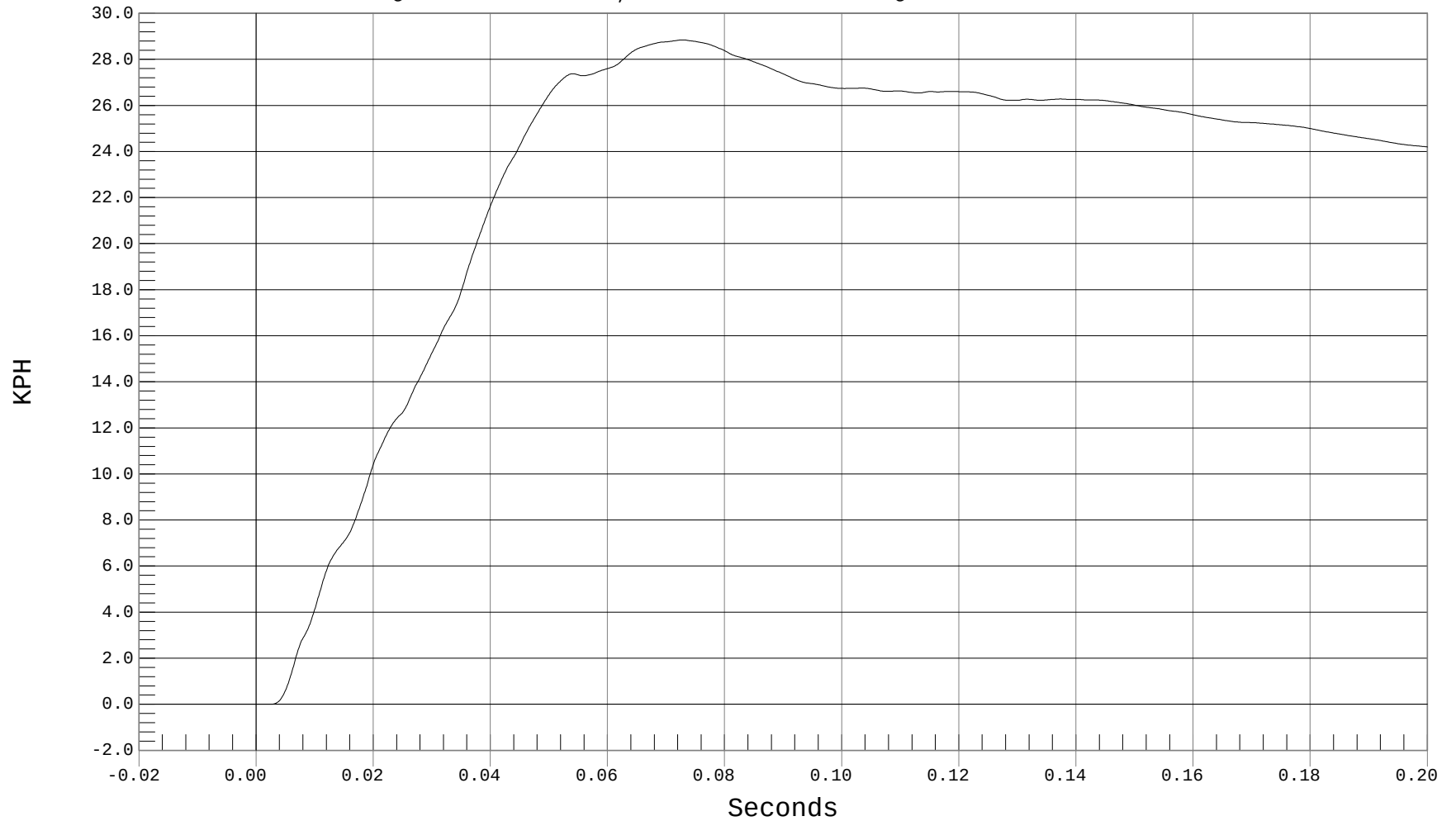
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT SIDE SILL AT REAR SEAT Y VELOCITY, B01079AI.V19

Ymin = 0 KPH @ -0.0189 Seconds, Ymax = 28.85 KPH @ 0.0727 Seconds





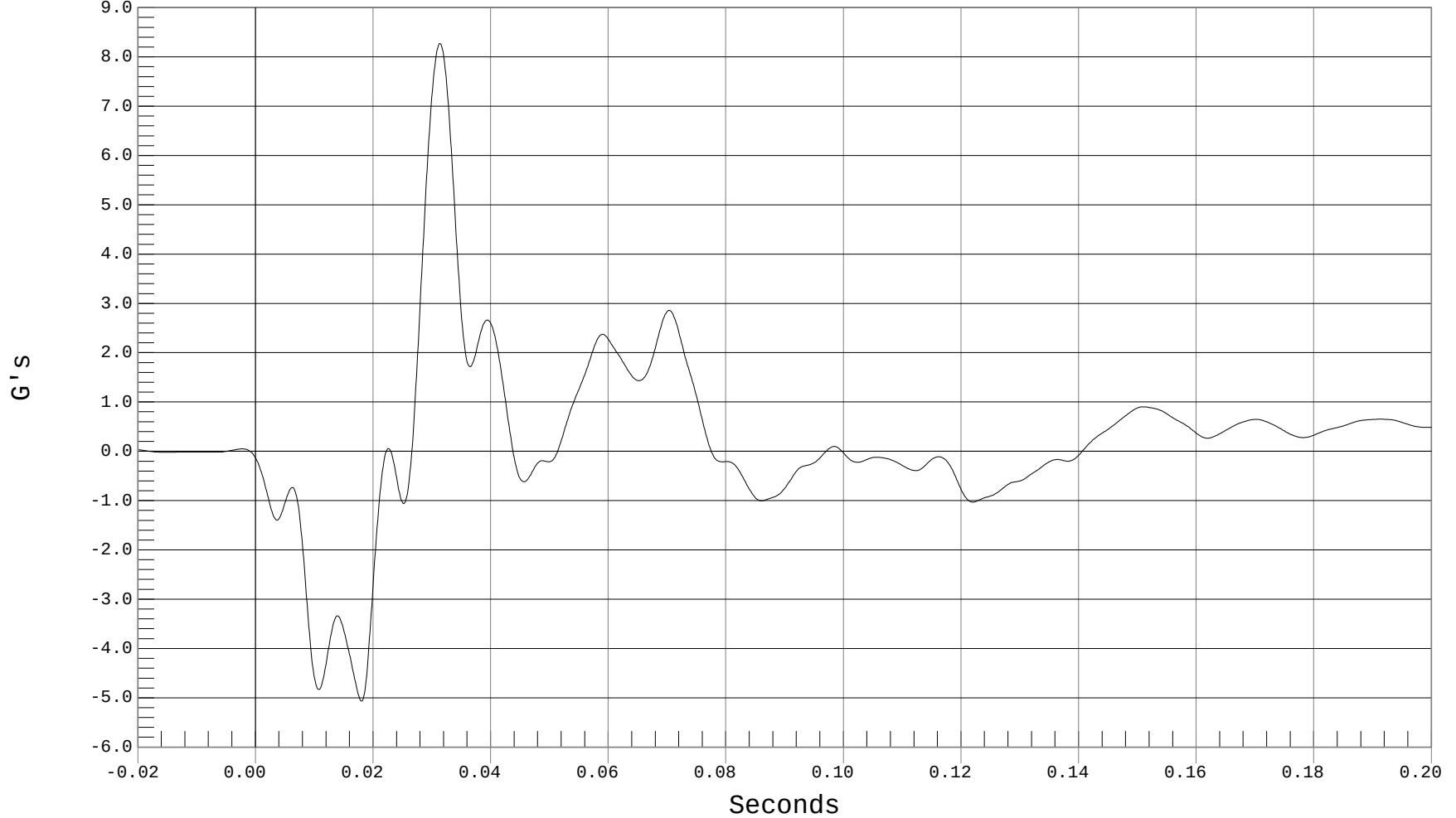
RIGHT SIDE SILL AT REAR SEAT Z ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 RIGHT REAR SILL Z, B01079AF.A20

Ymin = -5.07 G's @ 0.0180 Seconds, Ymax = 8.27 G's @ 0.0313 Seconds





RIGHT SIDE SILL AT REAR SEAT Z VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

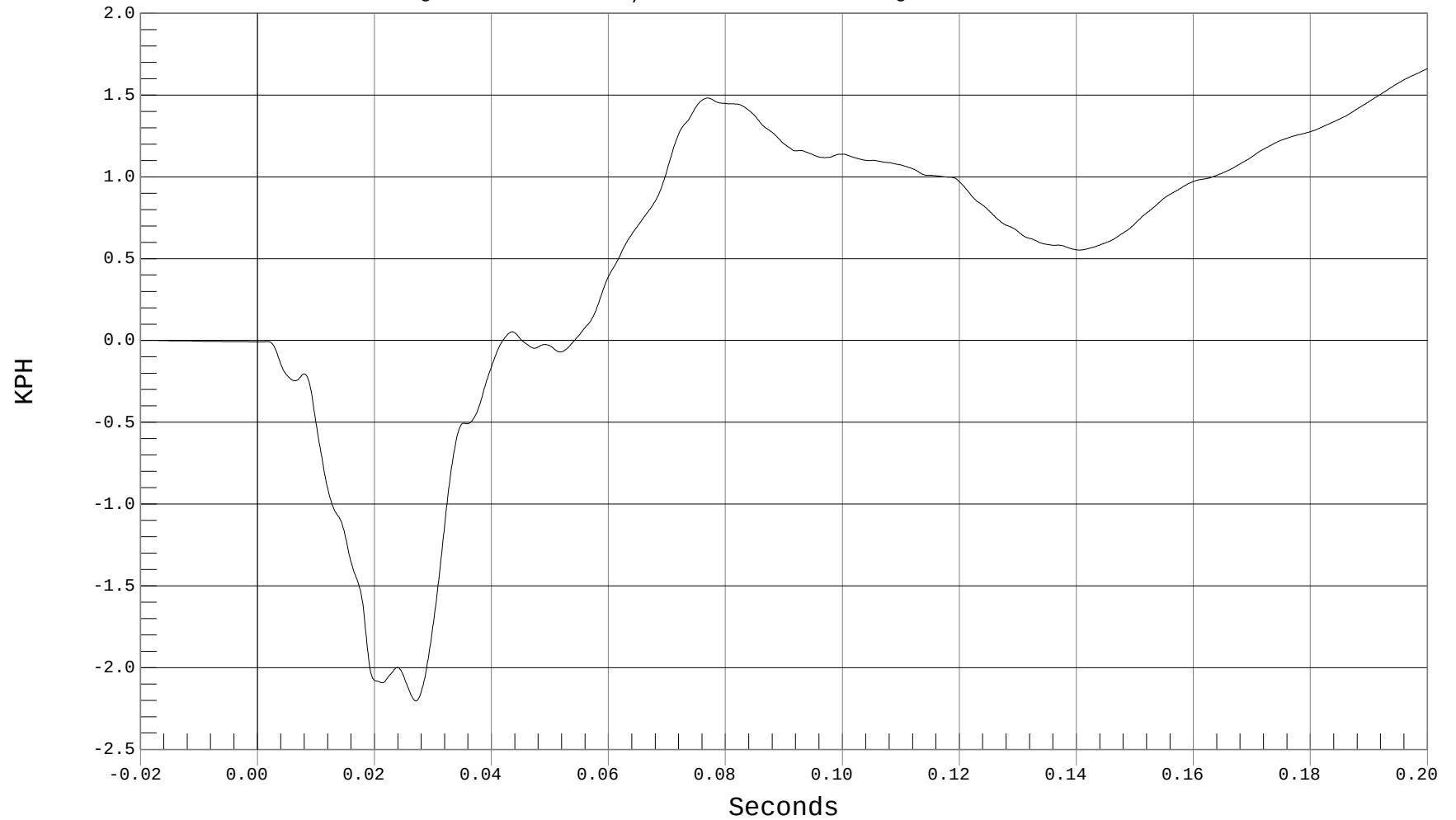
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT SIDE SILL AT REAR SEAT Z VELOCITY, B01079AI.V20

Ymin = -2.2 KPH @ 0.0270 Seconds, Ymax = 1.66 KPH @ 0.2000 Seconds





RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

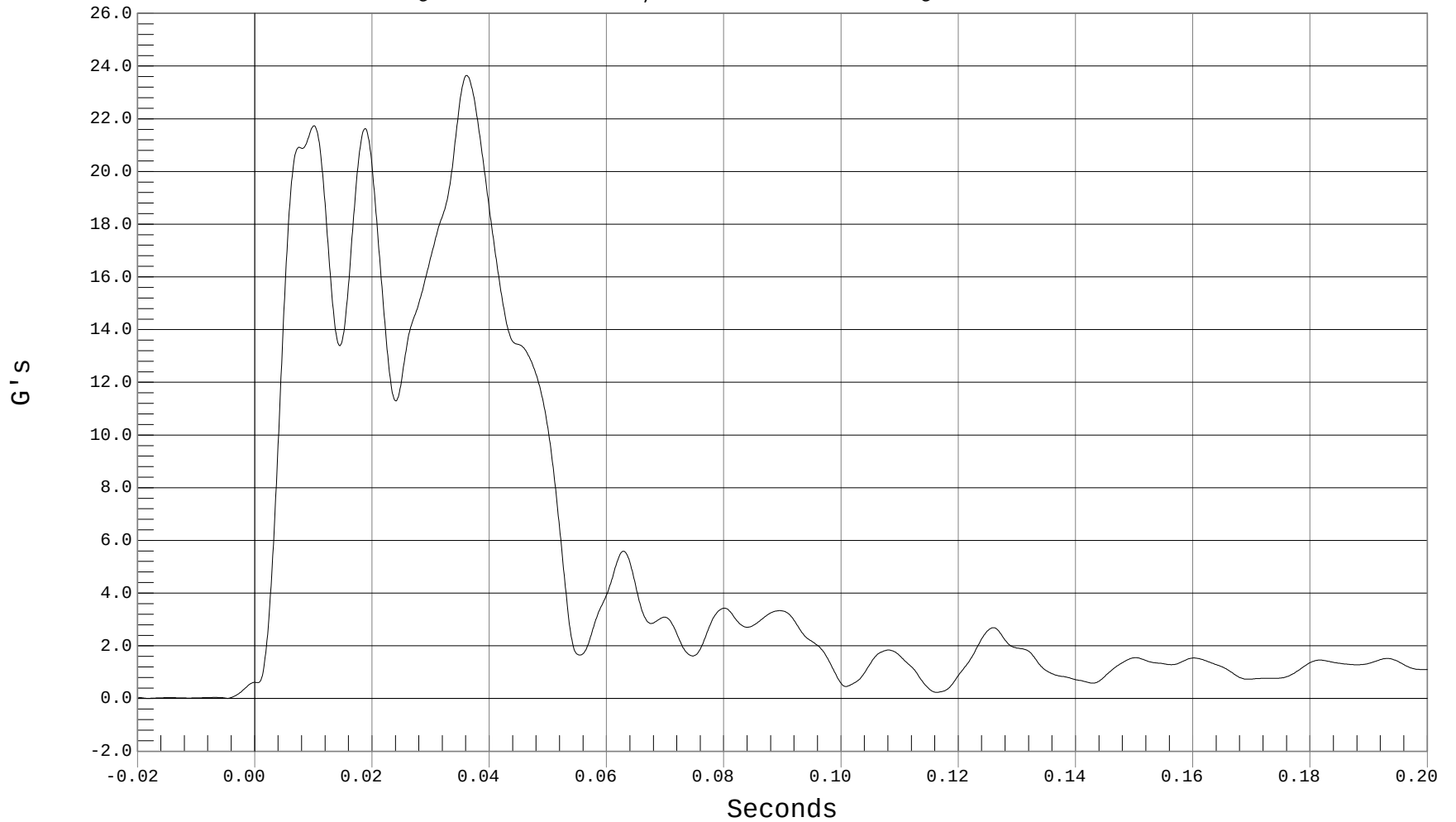
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION, B01079AV.A18

Ymin = .01 G's @ -0.0047 Seconds, Ymax = 23.64 G's @ 0.0361 Seconds





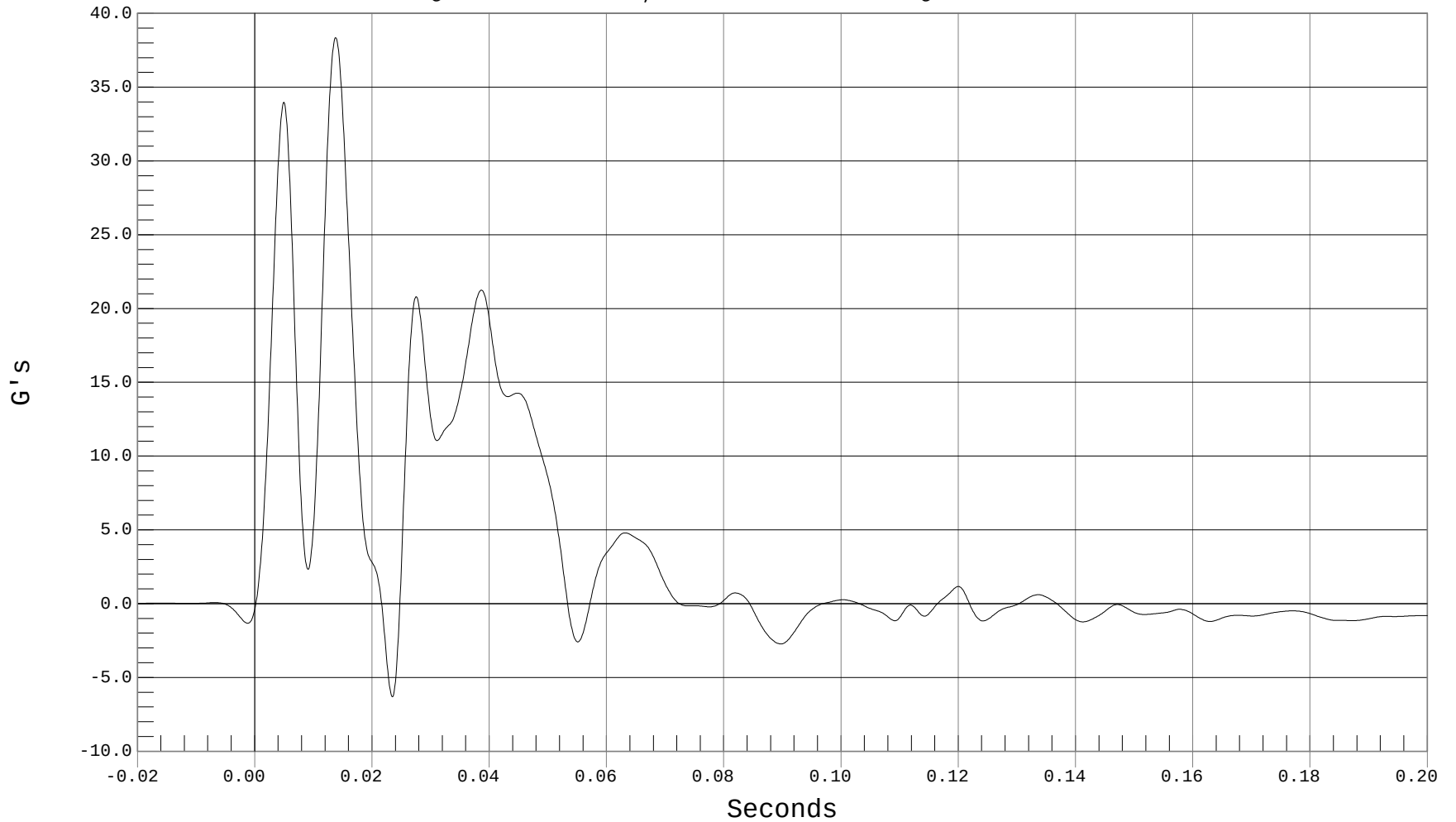
LEFT DRIVER SEAT TRACK Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 DRIVER SEAT TRACK Y, B01079AF.A30

Ymin = -6.31 G's @ 0.0234 Seconds, Ymax = 38.36 G's @ 0.0137 Seconds





LEFT DRIVER SEAT TRACK Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

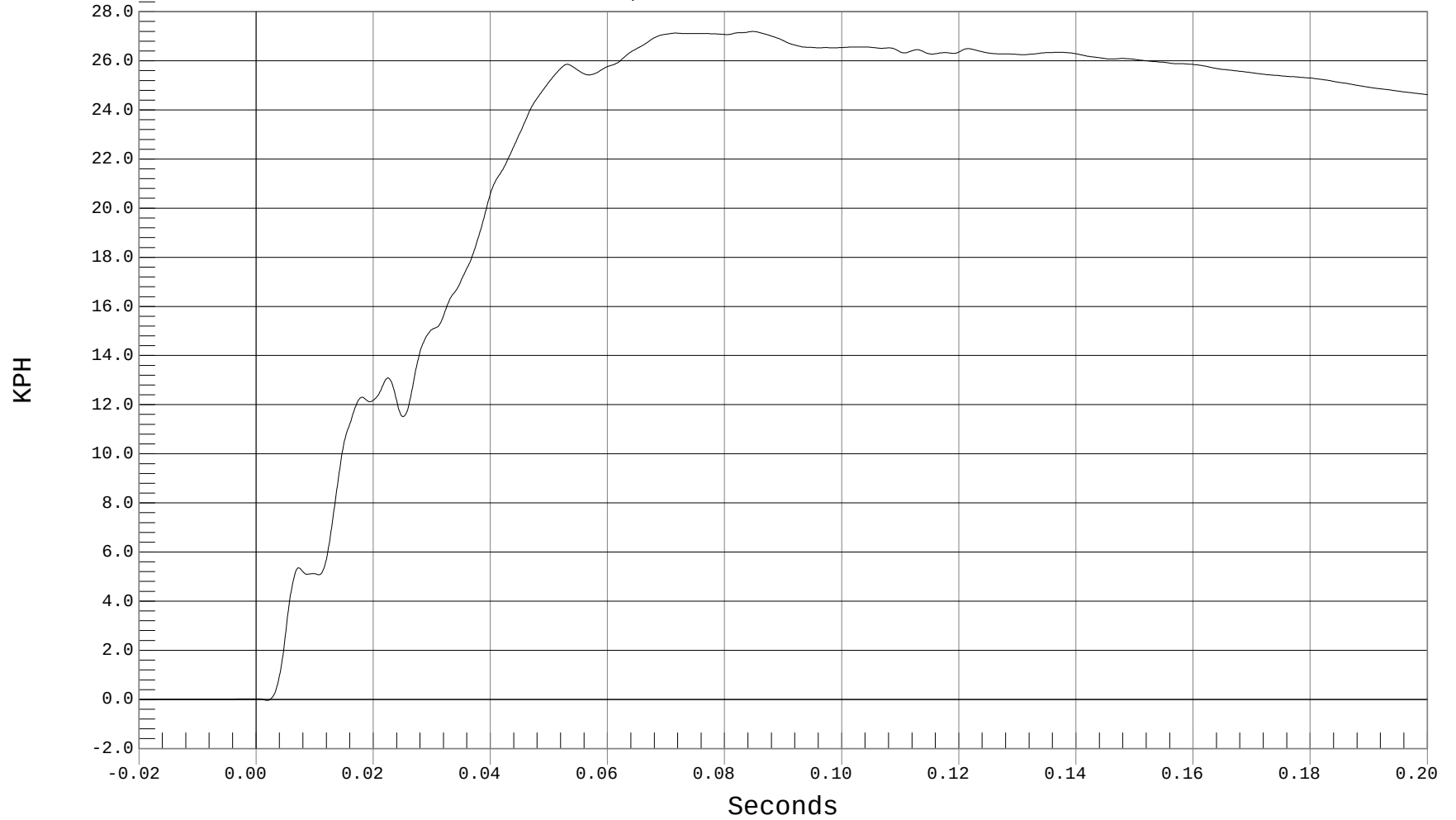
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER SEAT TRACK Y VELOCITY, B01079AI.V30

Ymin = -.04 KPH @ 0.0018 Seconds, Ymax = 27.2 KPH @ 0.0848 Seconds





REAR FLOORPAN ABOVE AXLE X ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

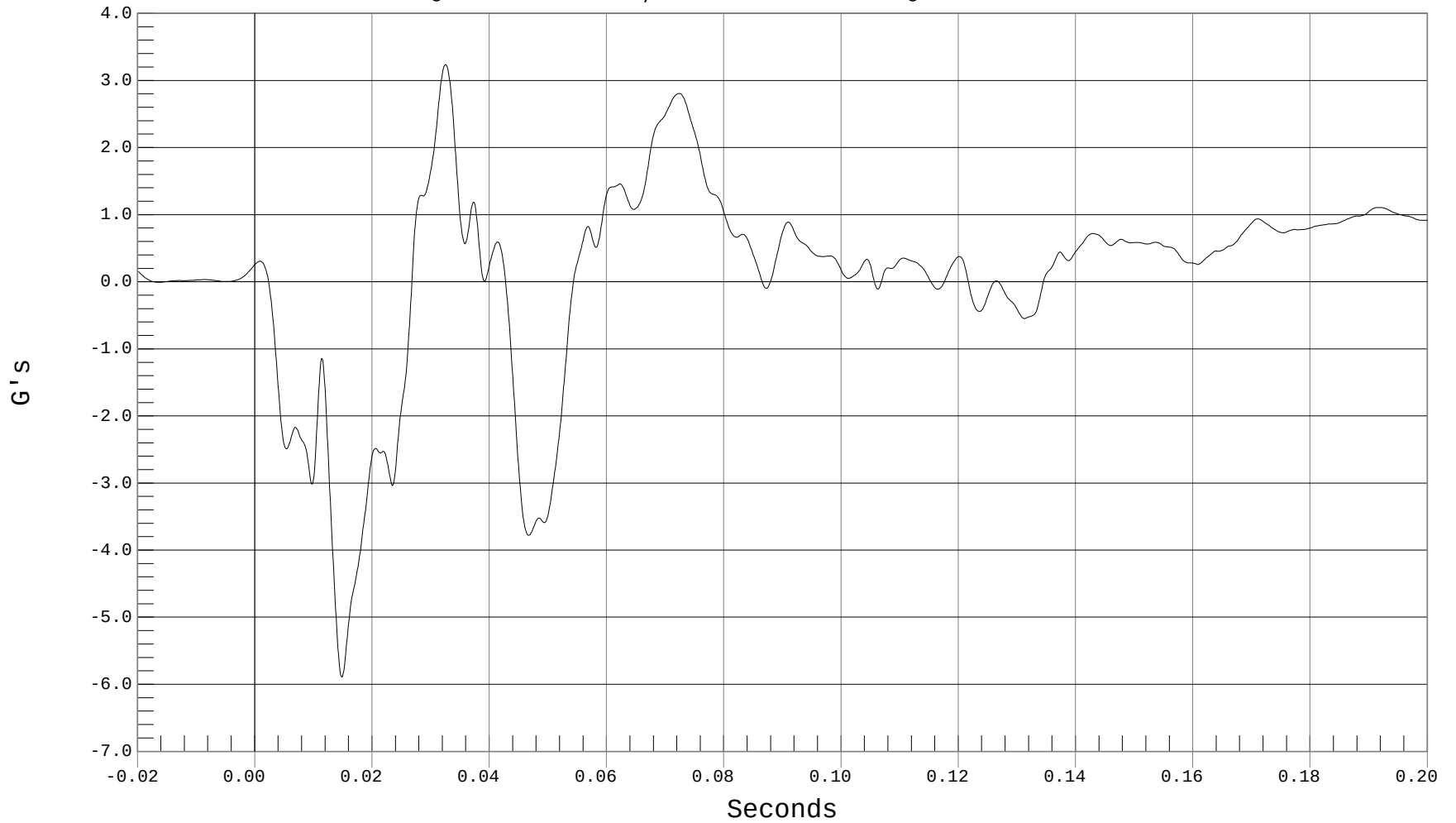
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 FLOORPAN @ REAR AXLE X, B01079AF.A23

Ymin = -5.89 G's @ 0.0148 Seconds, Ymax = 3.24 G's @ 0.0325 Seconds





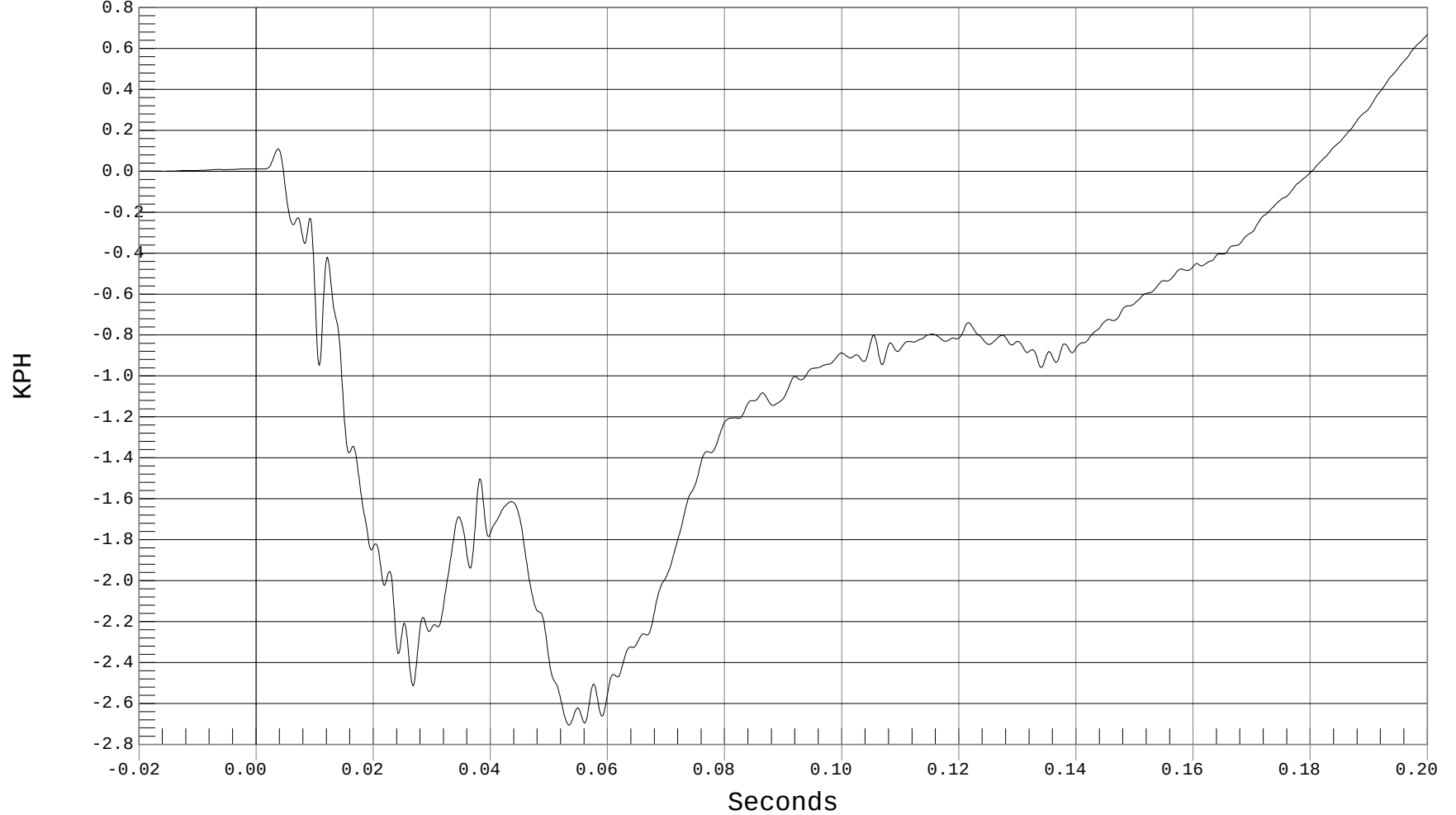
REAR FLOORPAN ABOVE AXLE X VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR FLOORPAN ABOVE AXLE X VELOCITY, B01079AI.V23

Ymin = -2.71 KPH @ 0.0533 Seconds, Ymax = .67 KPH @ 0.2000 Seconds





REAR FLOORPAN ABOVE AXLE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

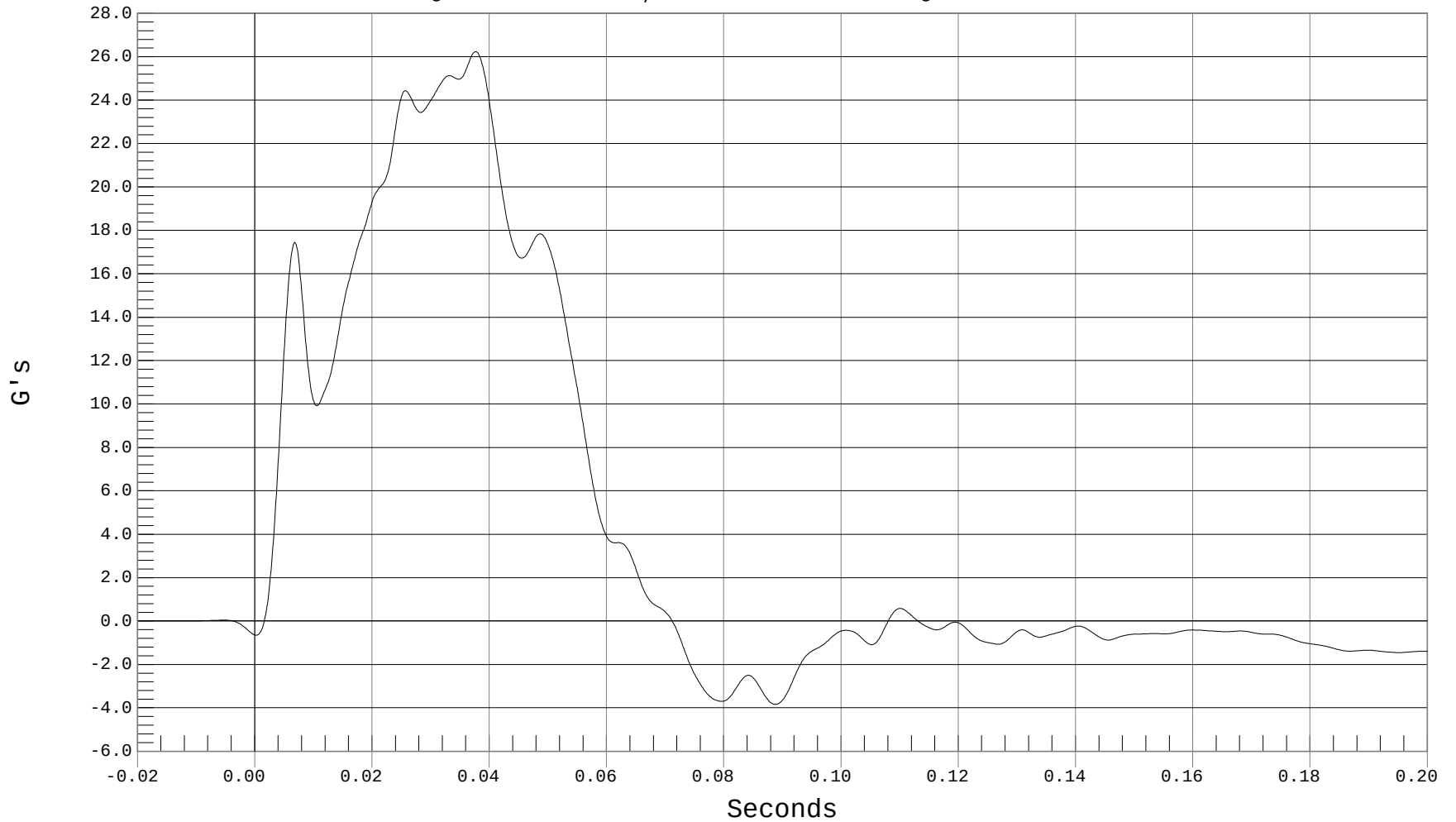
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 FLOORPAN @ REAR AXLE Y, B01079AF.A24

Ymin = -3.84 G's @ 0.0887 Seconds, Ymax = 26.24 G's @ 0.0376 Seconds





REAR FLOORPAN ABOVE AXLE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

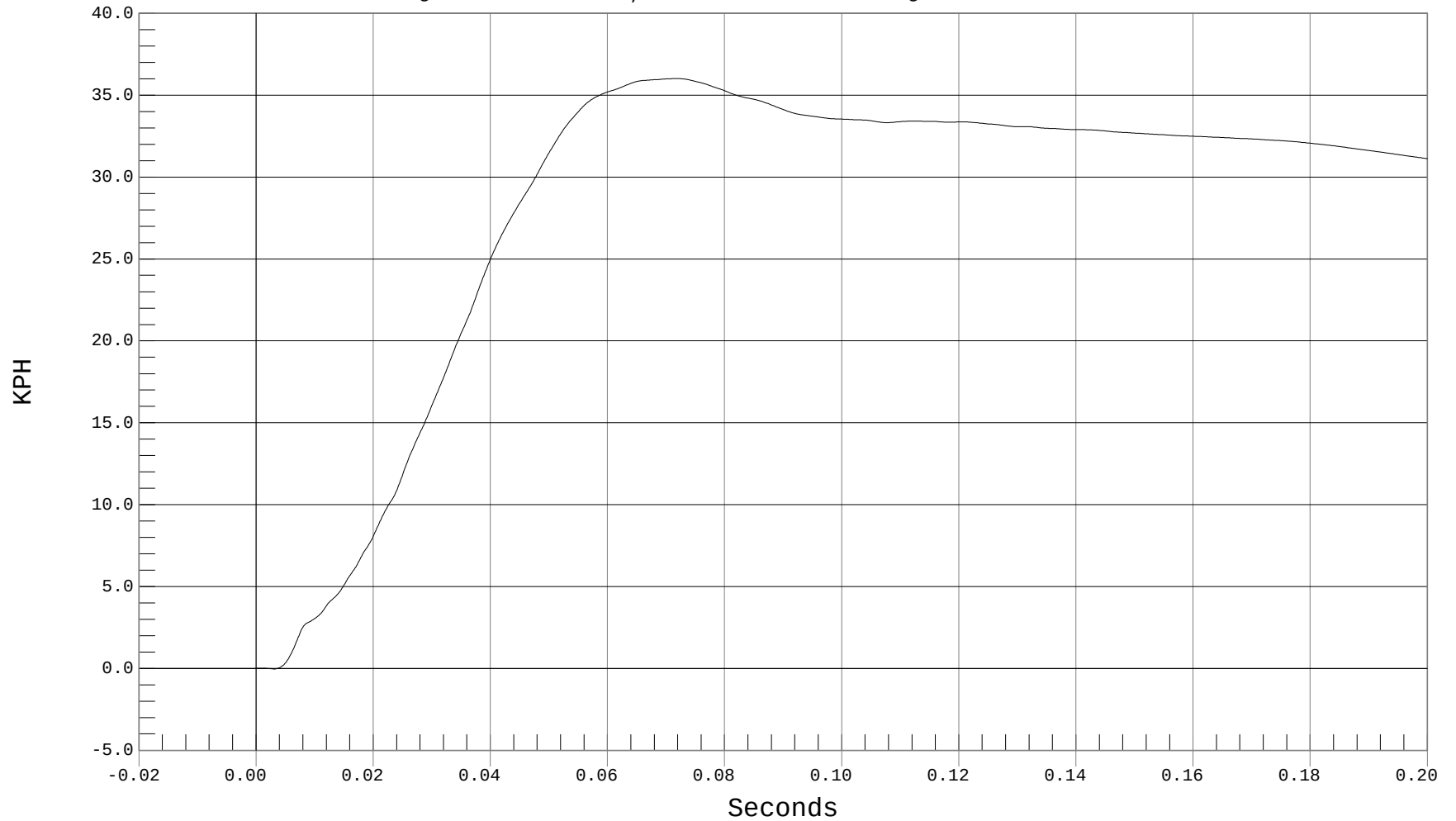
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR FLOORPAN ABOVE AXLE Y VELOCITY, B01079AI.V24

Ymin = -.03 KPH @ 0.0030 Seconds, Ymax = 36.02 KPH @ 0.0718 Seconds





REAR FLOORPAN ABOVE AXLE Z ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

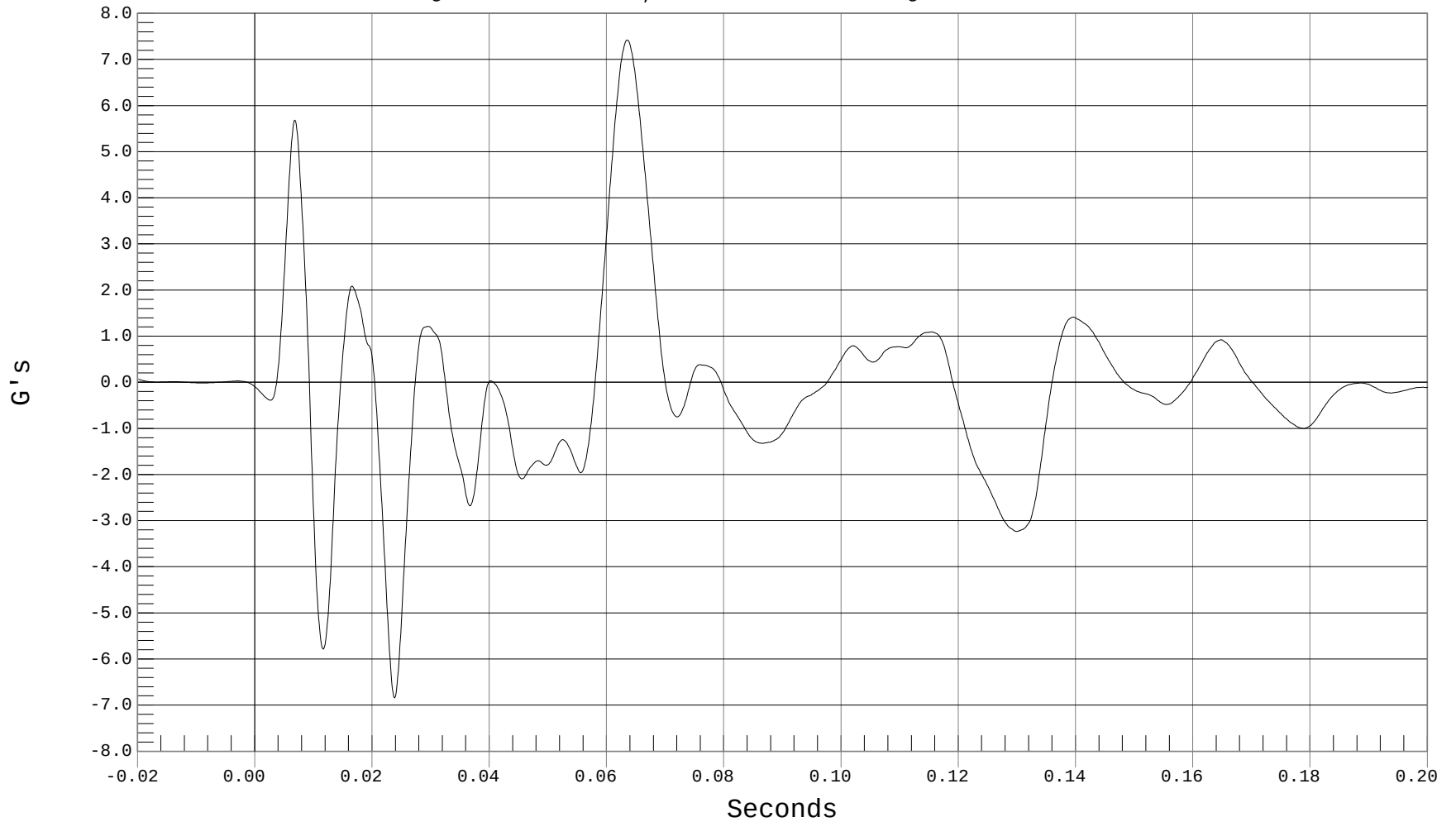
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 FLOORPAN @ REAR AXLE Z, B01079AF.A25

Ymin = -6.84 G's @ 0.0238 Seconds, Ymax = 7.42 G's @ 0.0634 Seconds





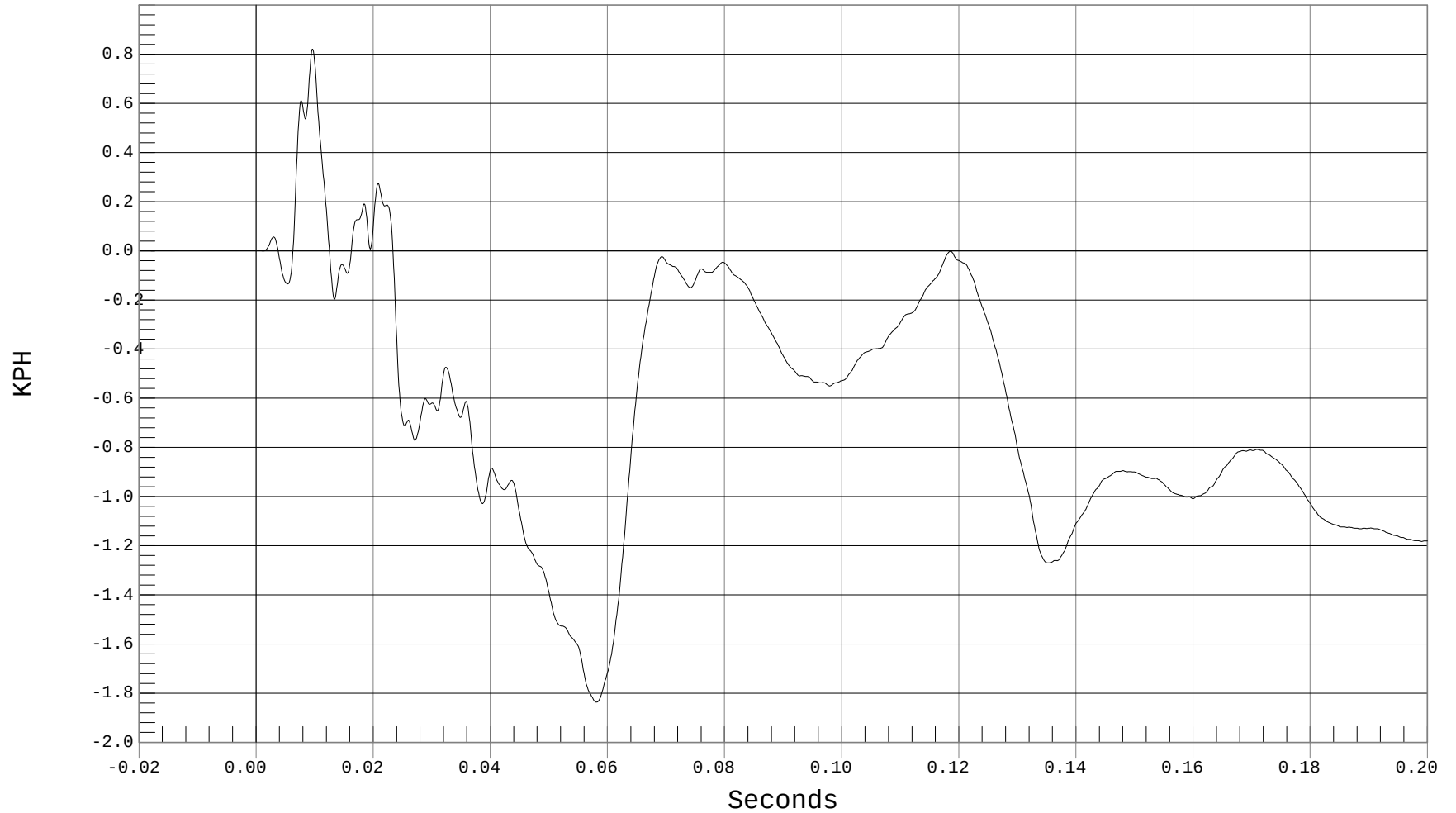
REAR FLOORPAN ABOVE AXLE Z VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 REAR FLOORPAN ABOVE AXLE Z VELOCITY, B01079AI.V25

Ymin = -1.84 KPH @ 0.0580 Seconds, Ymax = .82 KPH @ 0.0096 Seconds





REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

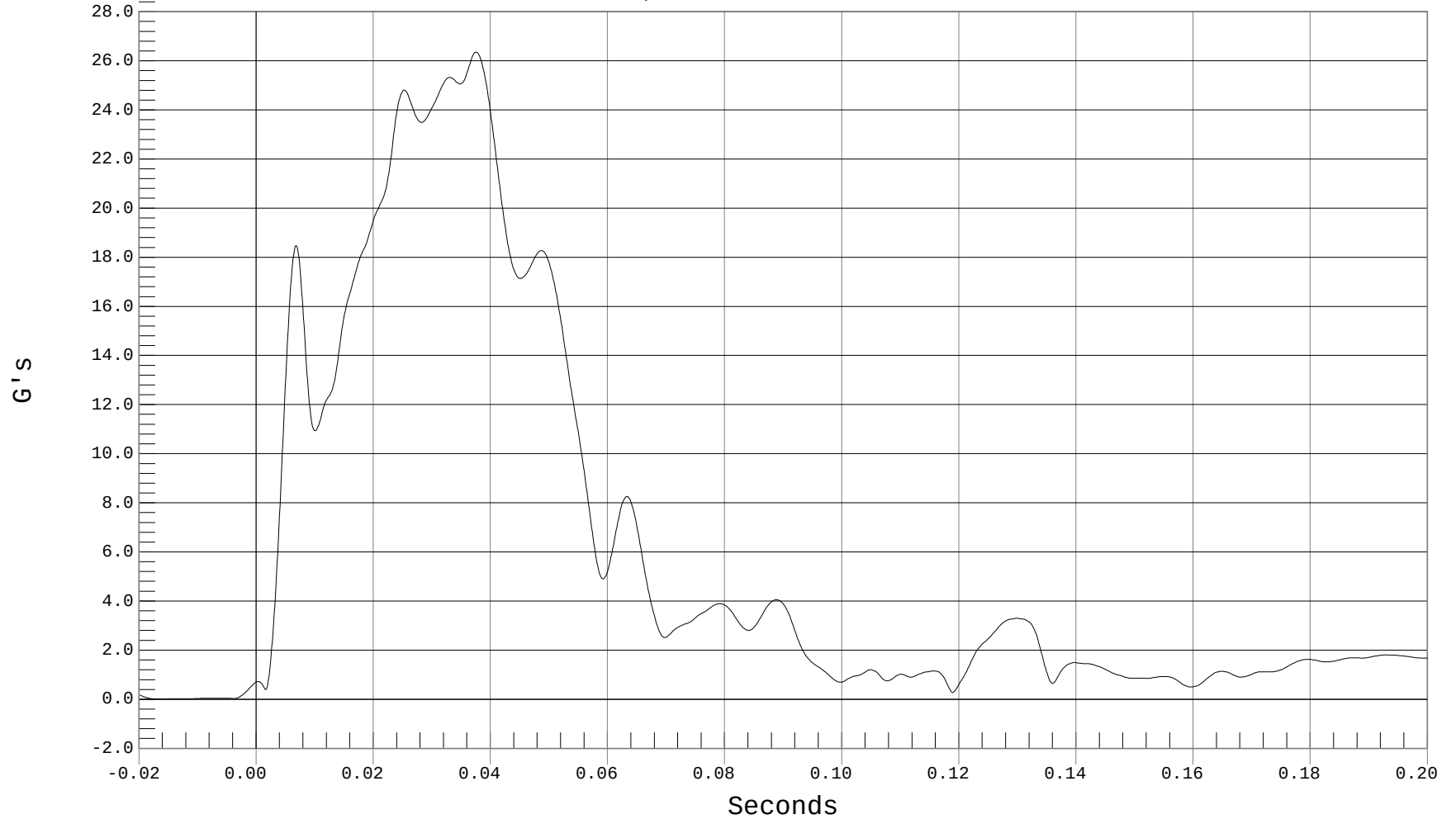
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

1 REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION, B01079AV.A23

Ymin = .01 G's @ -0.0155 Seconds, Ymax = 26.35 G's @ 0.0375 Seconds





RIGHT REAR OCCUPANT COMPARTMENT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

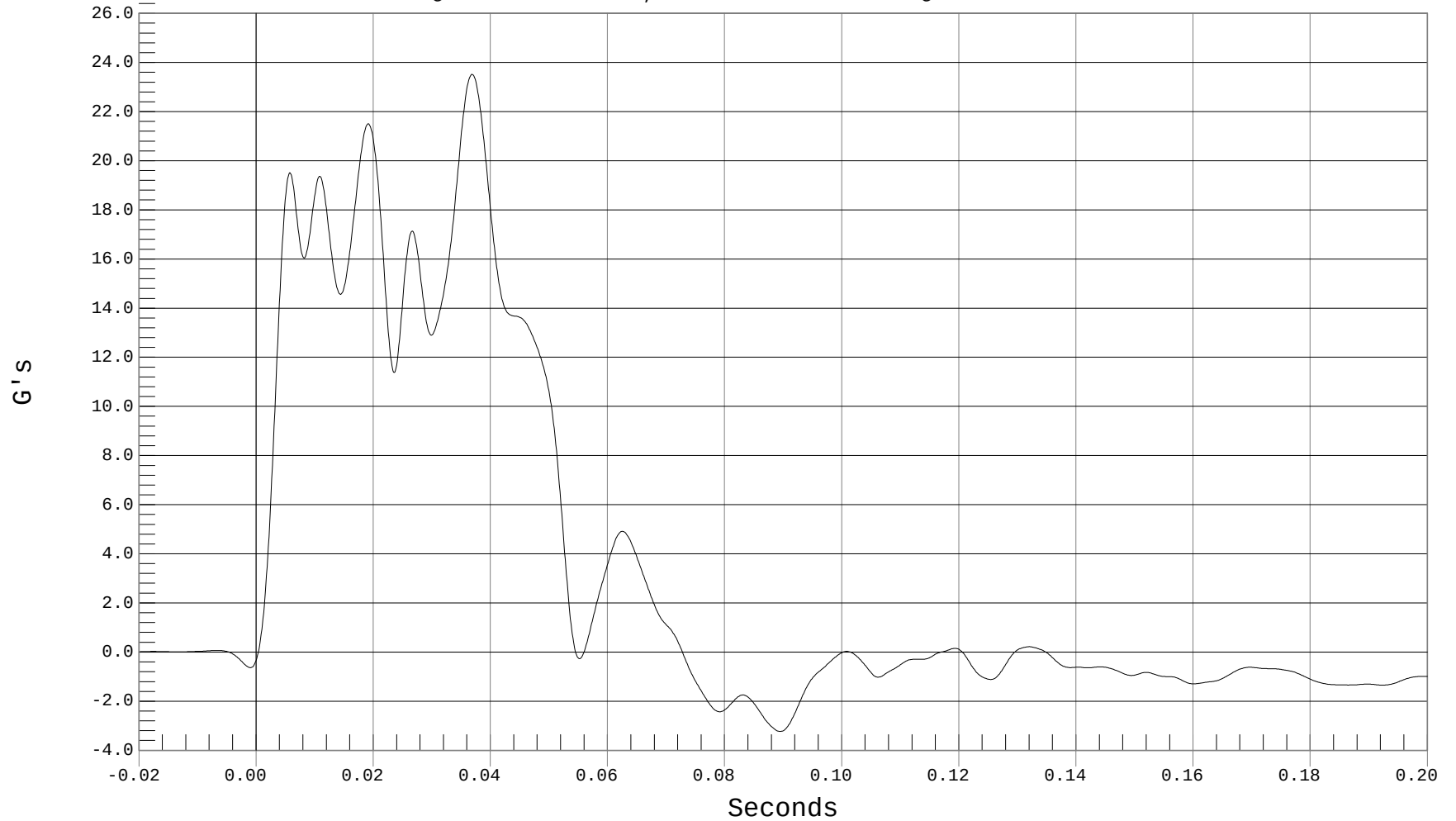
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 RIGHT REAR OCCUPANT COMPARTMENT Y, B01079AF.A31

Ymin = -3.23 G's @ 0.0894 Seconds, Ymax = 23.52 G's @ 0.0368 Seconds





RIGHT REAR OCCUPANT COMPARTMENT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

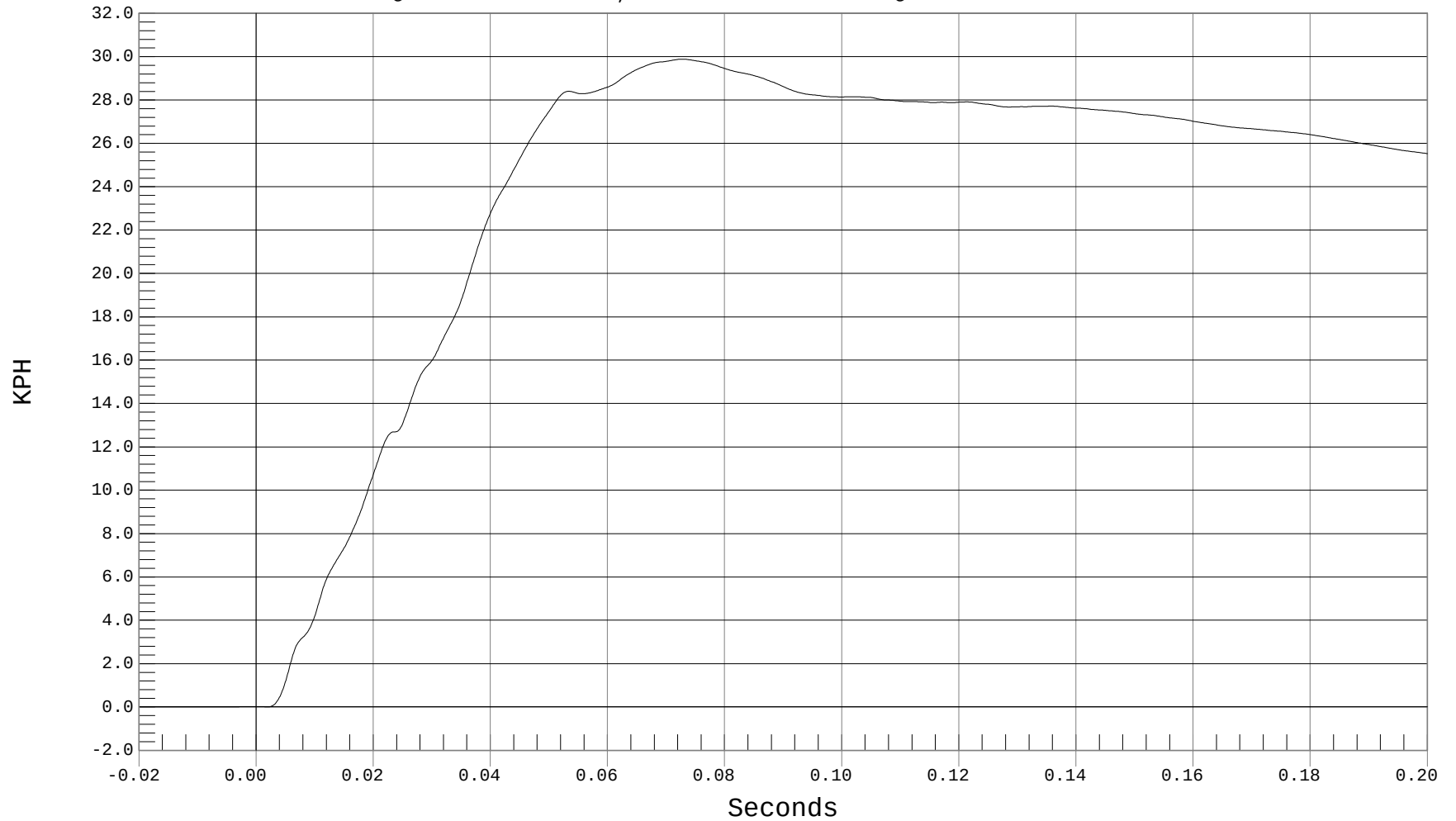
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 RIGHT REAR OCCUPANT COMPARTMENT Y VELOCITY, B01079AI.V31

Ymin = 0 KPH @ -0.0199 Seconds, Ymax = 29.88 KPH @ 0.0727 Seconds





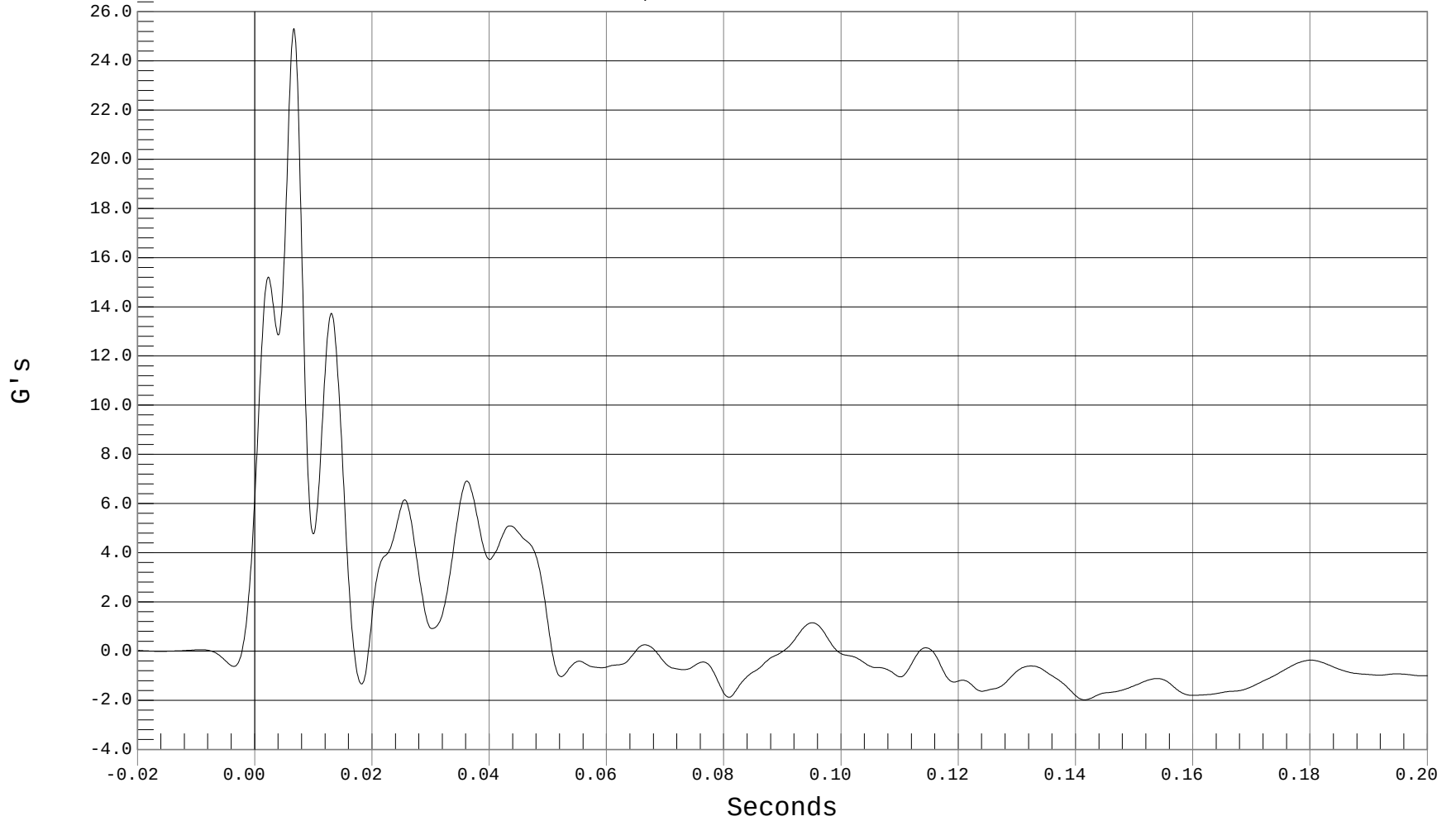
LEFT LOWER A-POST Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT LOWER A-POST Y, B01079AF.A27

Ymin = -1.98 G's @ 0.1415 Seconds, Ymax = 25.32 G's @ 0.0066 Seconds





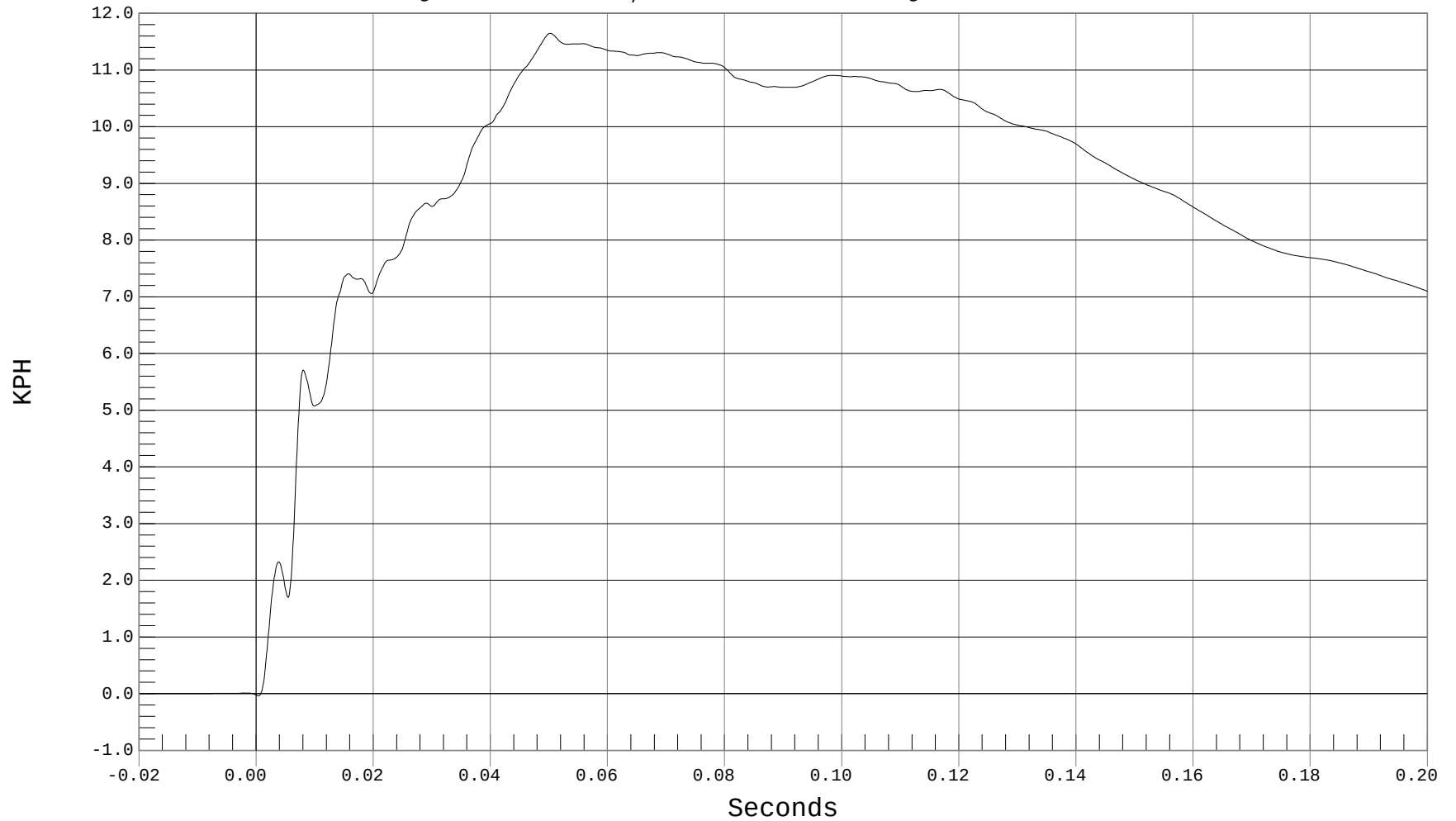
LEFT LOWER A-POST Y VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 LEFT LOWER A-POST Y VELOCITY, B01079AI.V27

Ymin = -.04 KPH @ 0.0003 Seconds, Ymax = 11.65 KPH @ 0.0501 Seconds





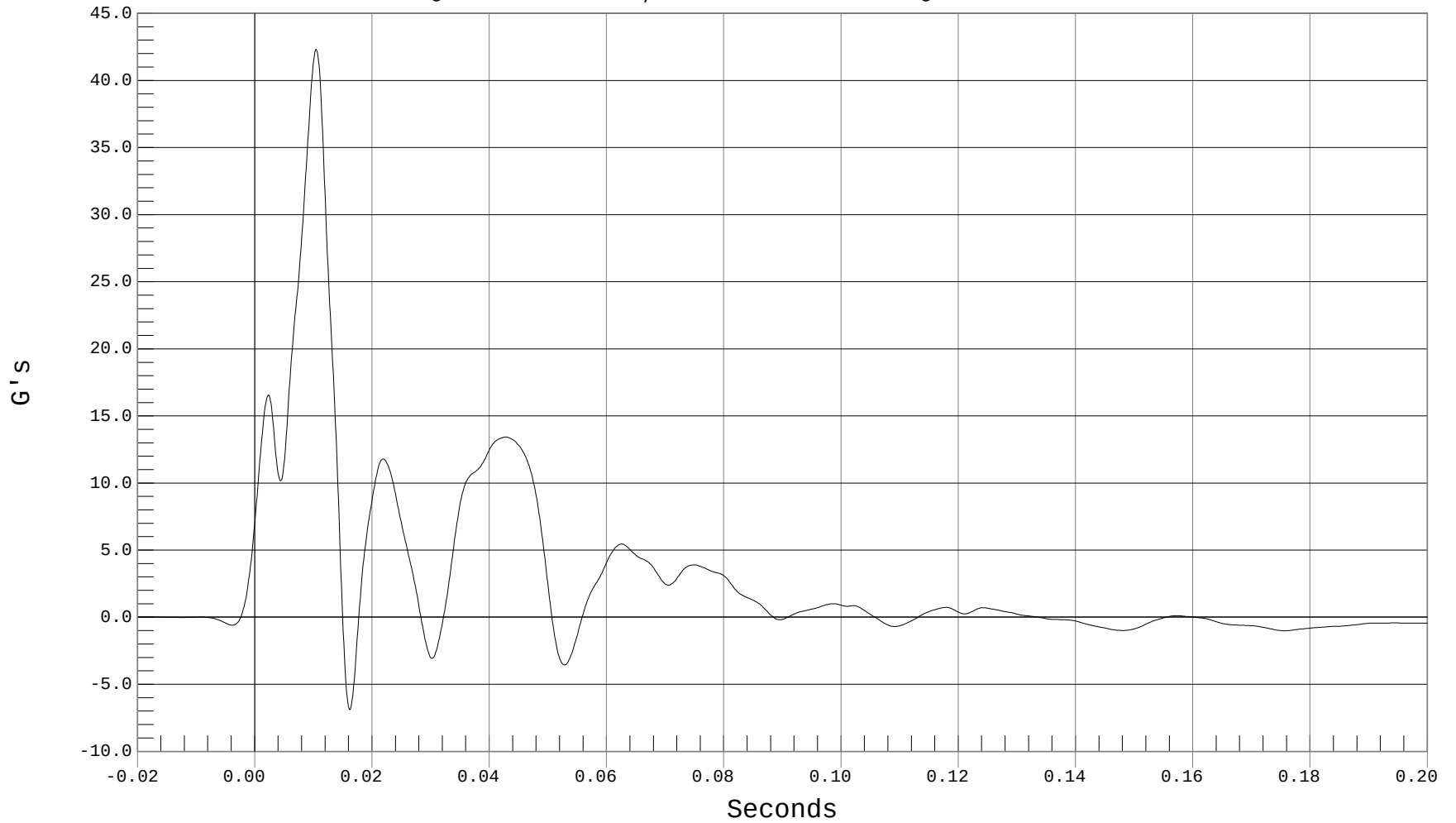
LEFT MID A-POST Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT MID A-POST Y, B01079AF.A26

Ymin = -6.89 G's @ 0.0161 Seconds, Ymax = 42.32 G's @ 0.0104 Seconds





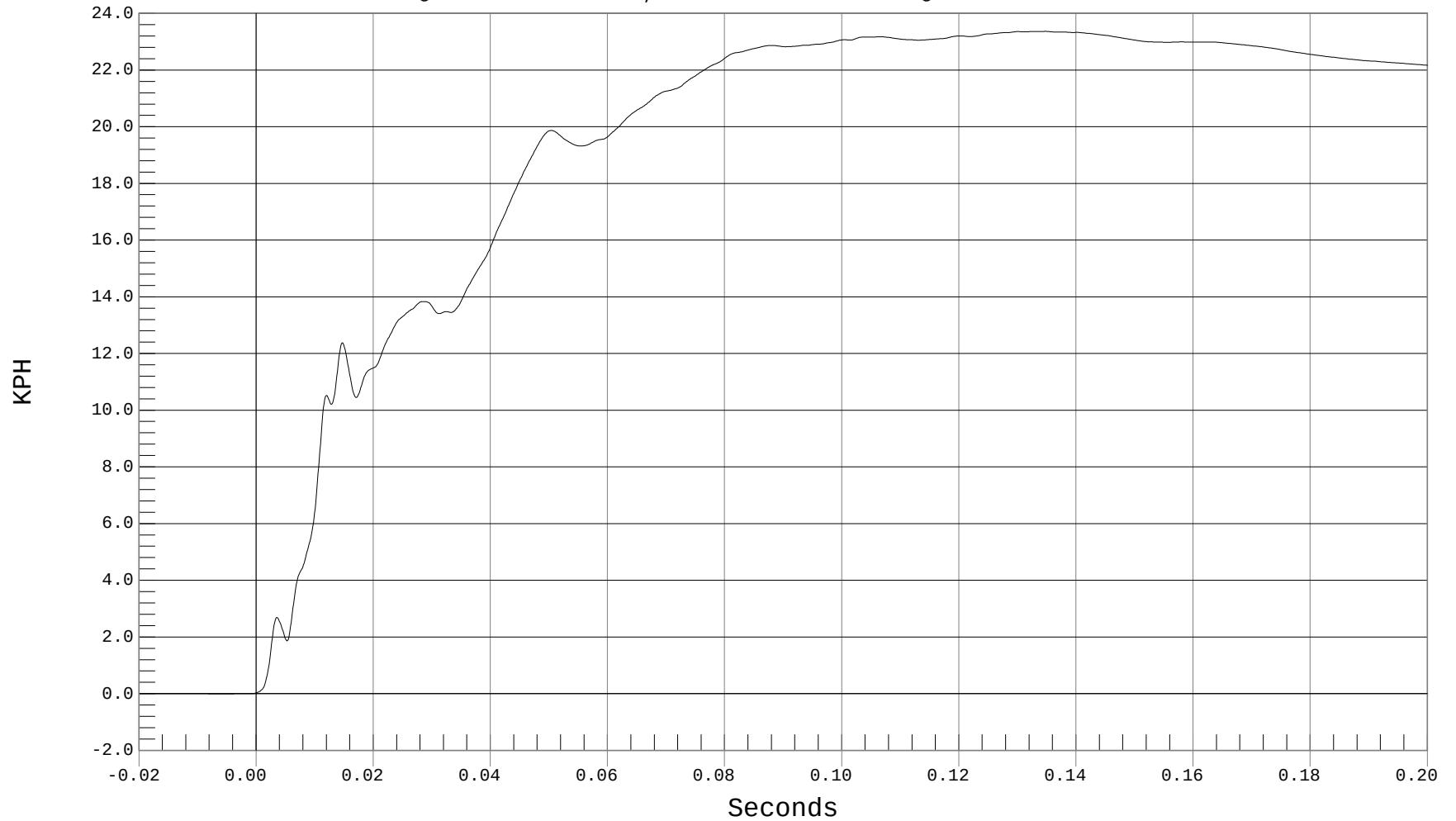
LEFT MID A-POST Y VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 LEFT MID A-POST Y VELOCITY, B01079AI.V26

Ymin = -.01 KPH @ -0.0049 Seconds, Ymax = 23.37 KPH @ 0.1347 Seconds





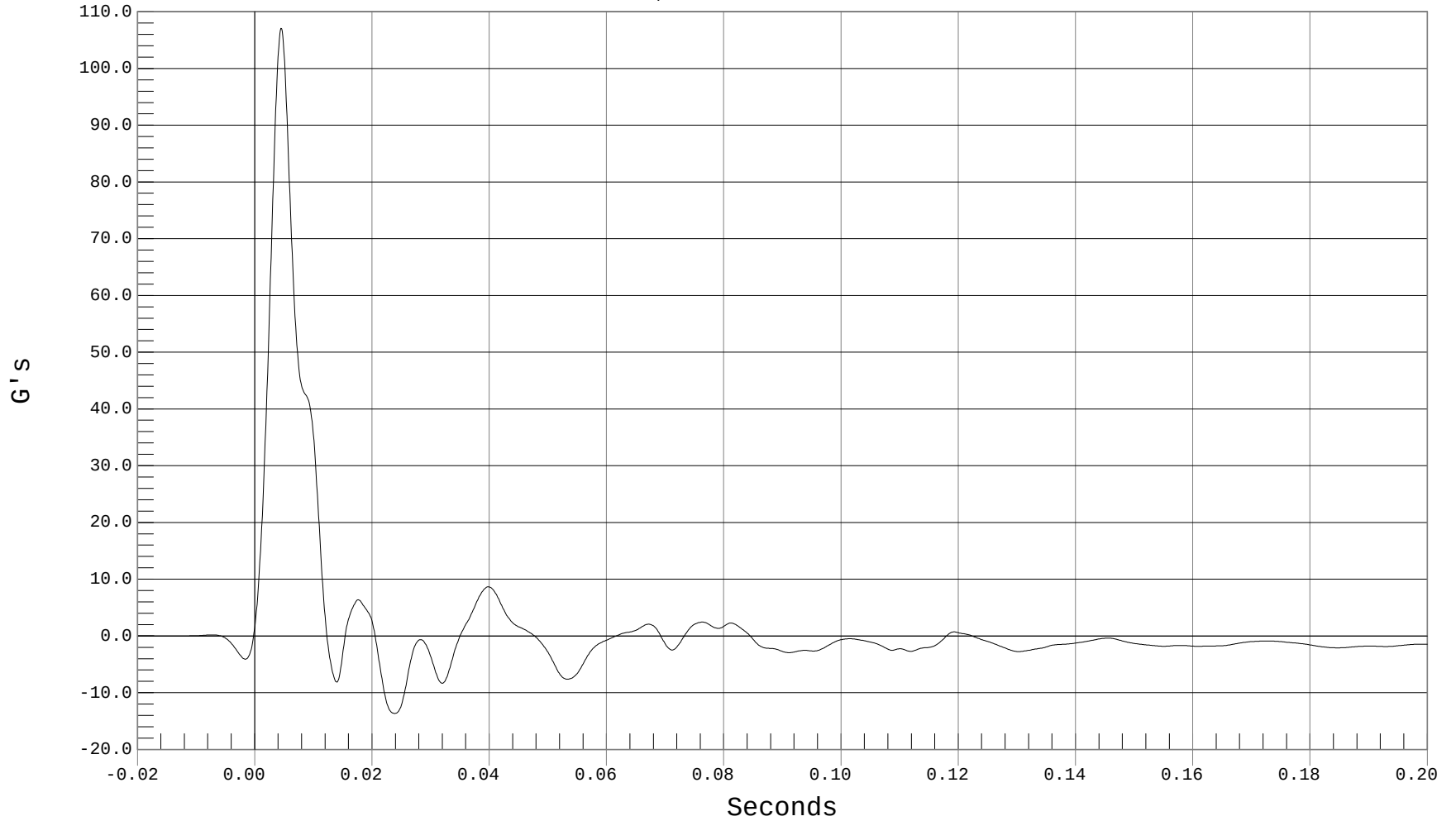
LEFT LOWER B-POST Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT LOWER B-POST, B01079AF.A29

Ymin = -13.66 G's @ 0.0238 Seconds, Ymax = 107.08 G's @ 0.0044 Seconds





LEFT LOWER B-POST Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

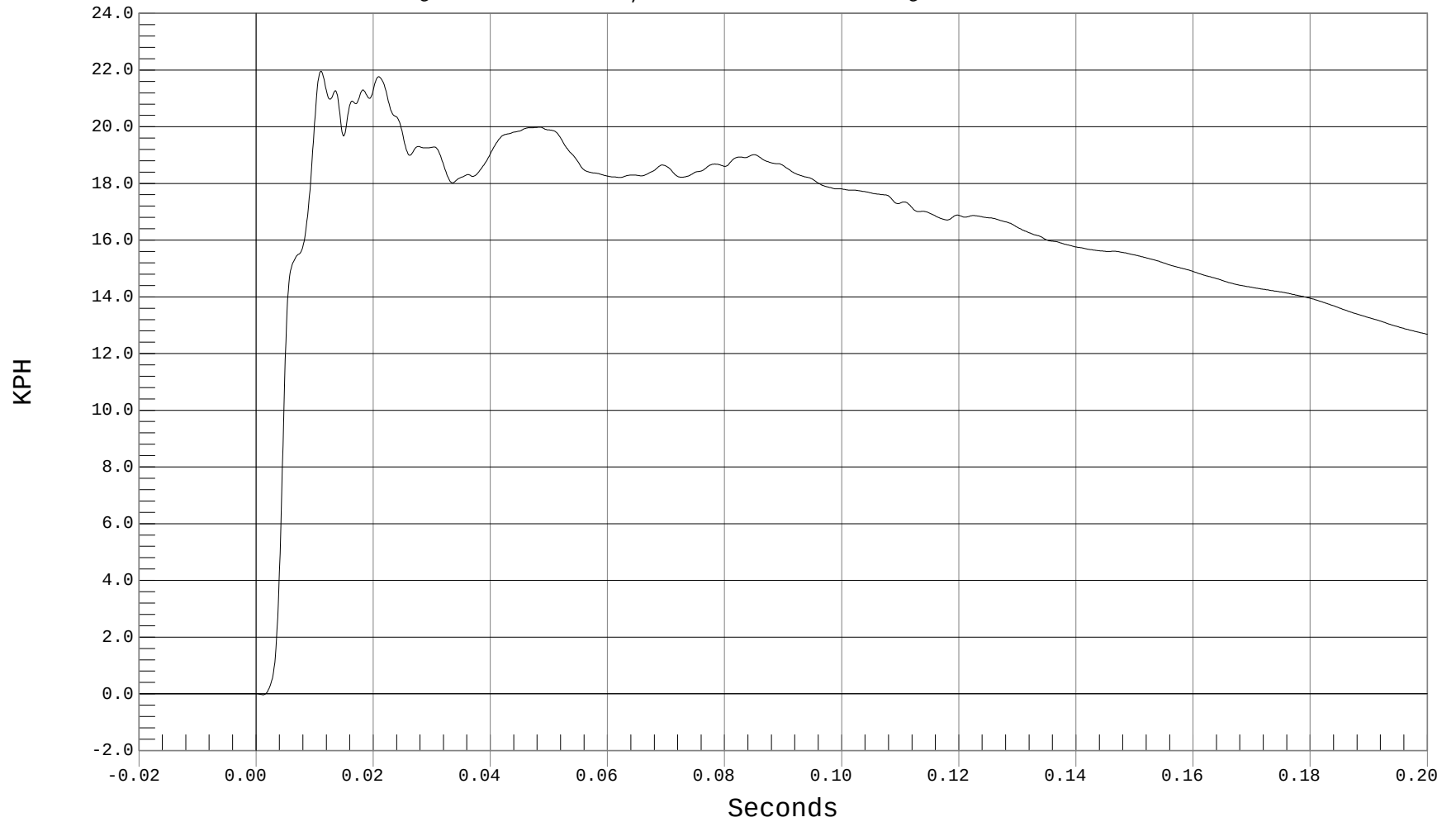
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT LOWER B-POST Y VELOCITY, B01079AI.V29

Ymin = -.03 KPH @ 0.0011 Seconds, Ymax = 21.96 KPH @ 0.0110 Seconds





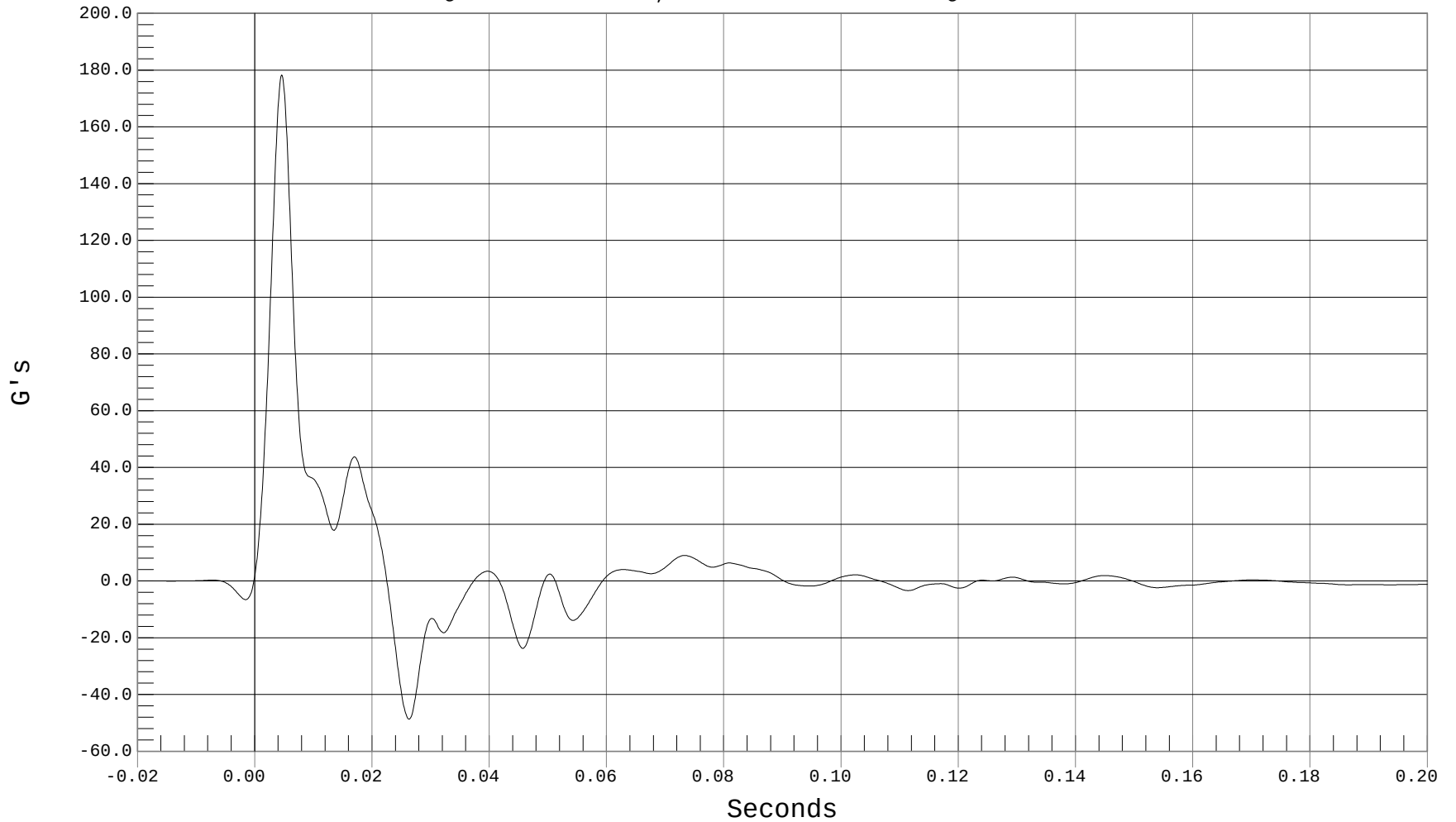
LEFT MID B-POST Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 LEFT MID B-POST, B01079AF.A28

Ymin = -48.68 G's @ 0.0262 Seconds, Ymax = 178.27 G's @ 0.0045 Seconds





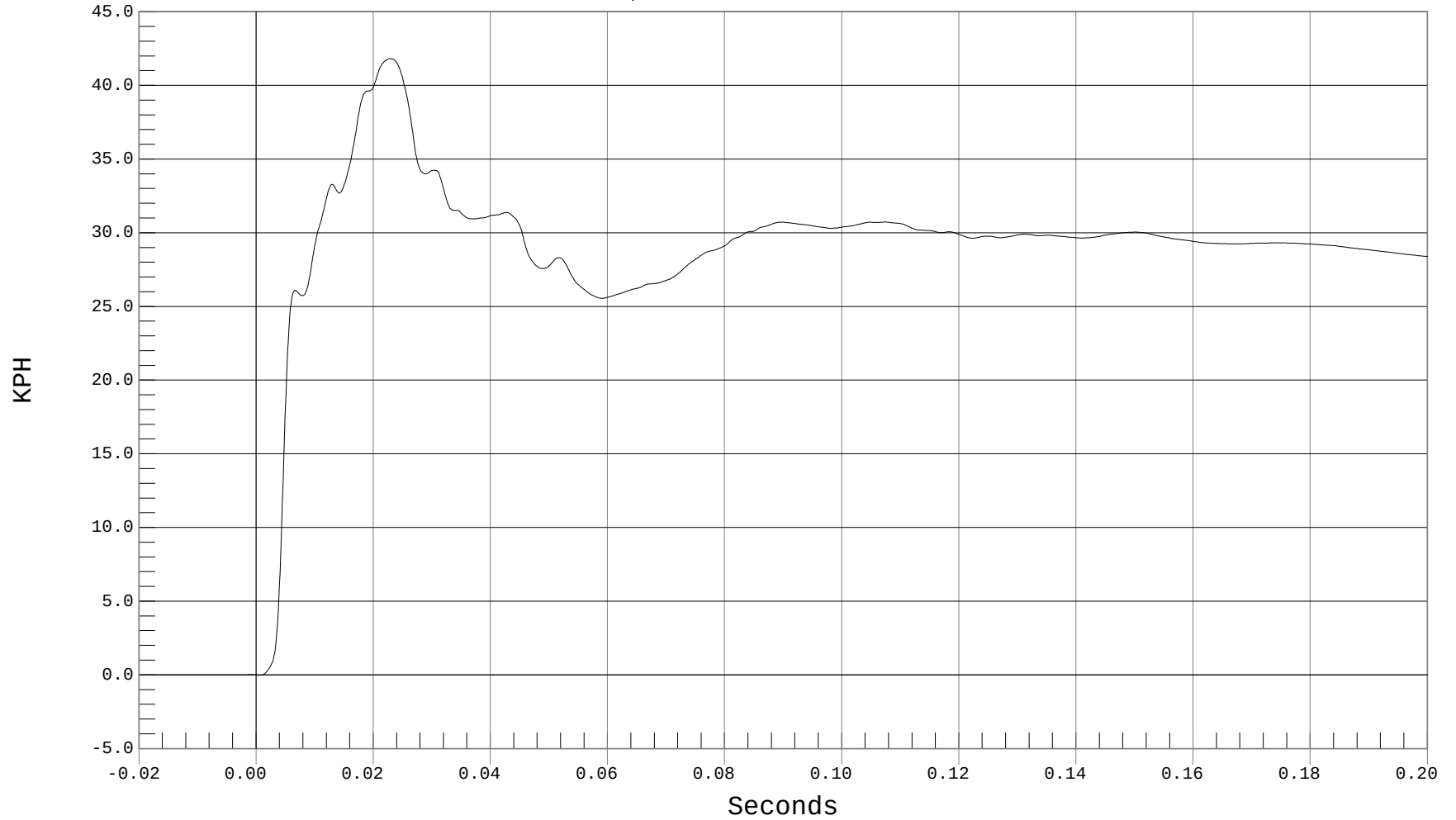
LEFT MID B-POST Y VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 LEFT MID B-POST Y VELOCITY, B01079AI.V28

Ymin = -.02 KPH @ 0.0006 Seconds, Ymax = 41.82 KPH @ 0.0228 Seconds





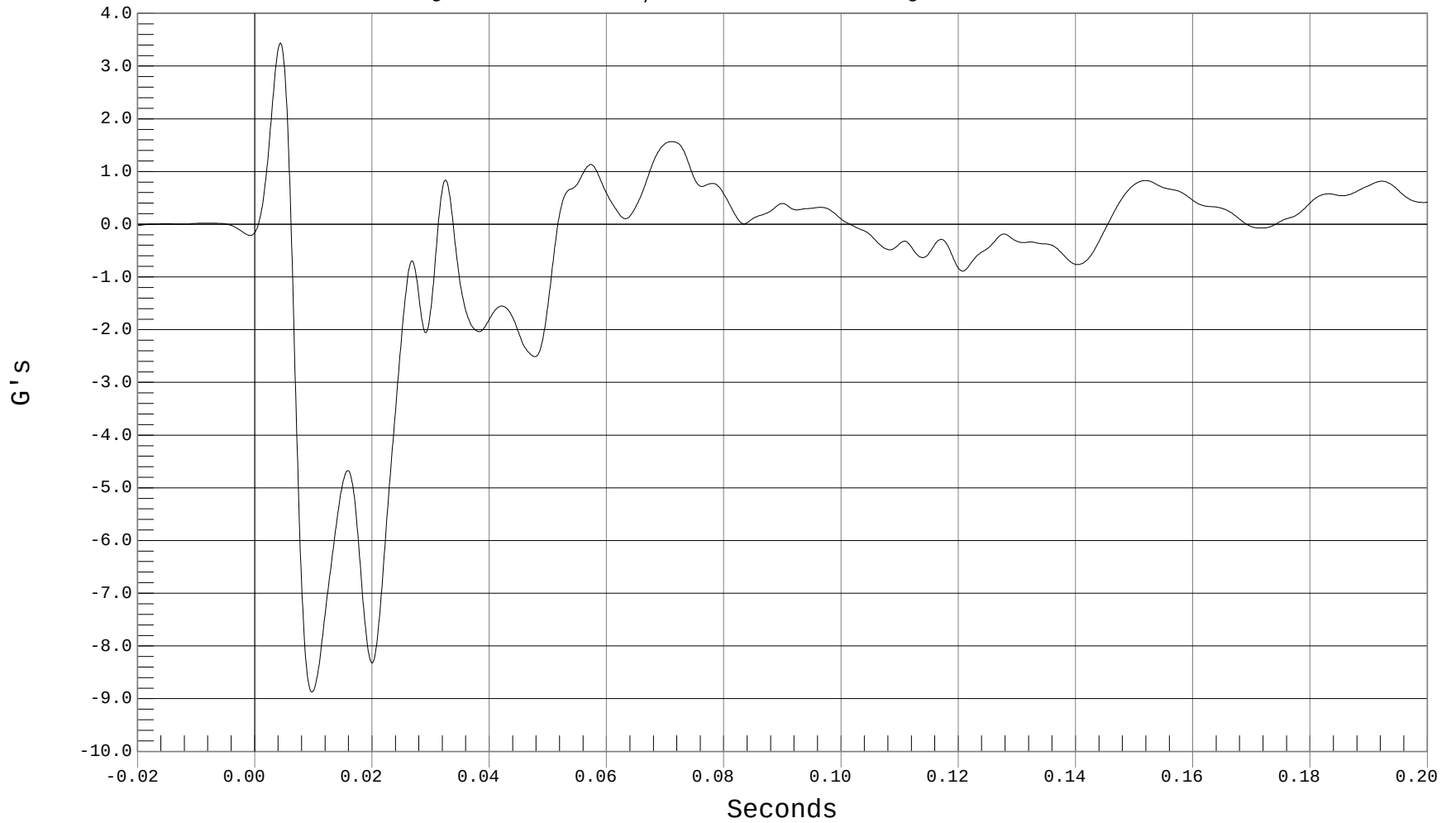
VEHICLE CG X ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG X, B01079AF.A33

Ymin = -8.87 G's @ 0.0097 Seconds, Ymax = 3.44 G's @ 0.0043 Seconds





VEHICLE CG X VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

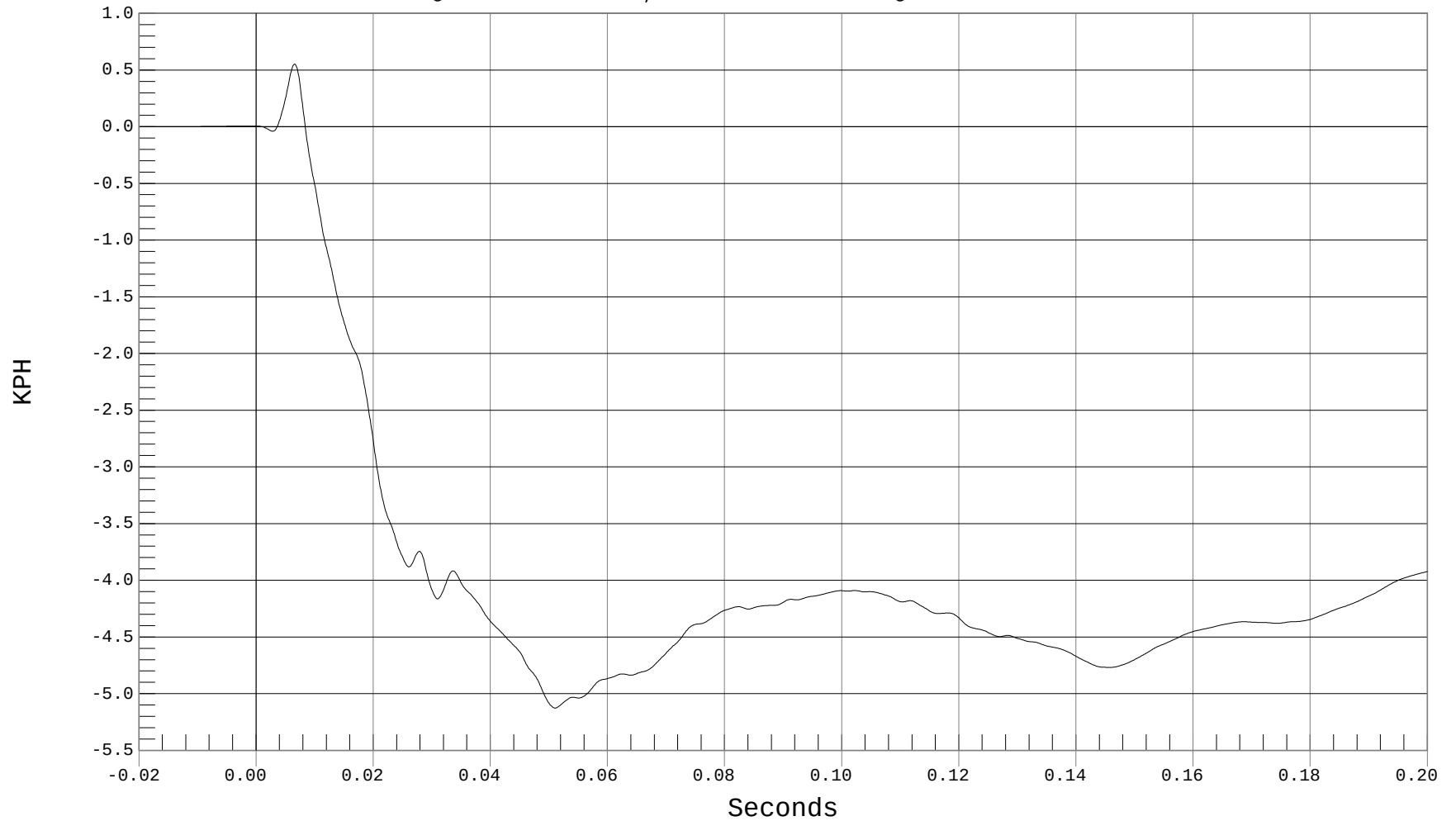
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 VEHICLE CG X VELOCITY, B01079AI.V33

Ymin = -5.13 KPH @ 0.0510 Seconds, Ymax = .55 KPH @ 0.0065 Seconds





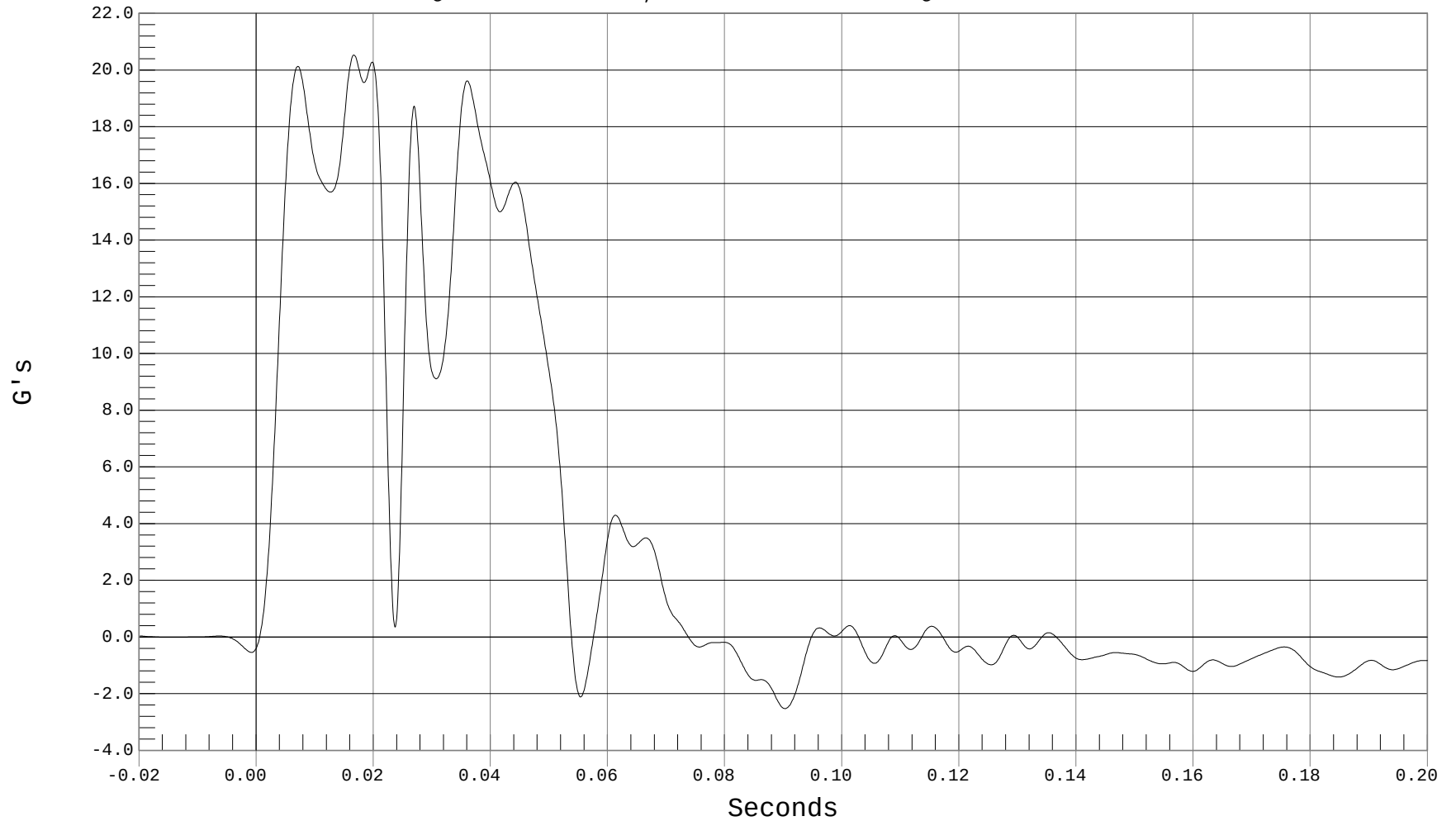
VEHICLE CG Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG Y, B01079AF.A34

Ymin = -2.53 G's @ 0.0902 Seconds, Ymax = 20.53 G's @ 0.0166 Seconds





VEHICLE CG Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

Test Date: 07-19-01

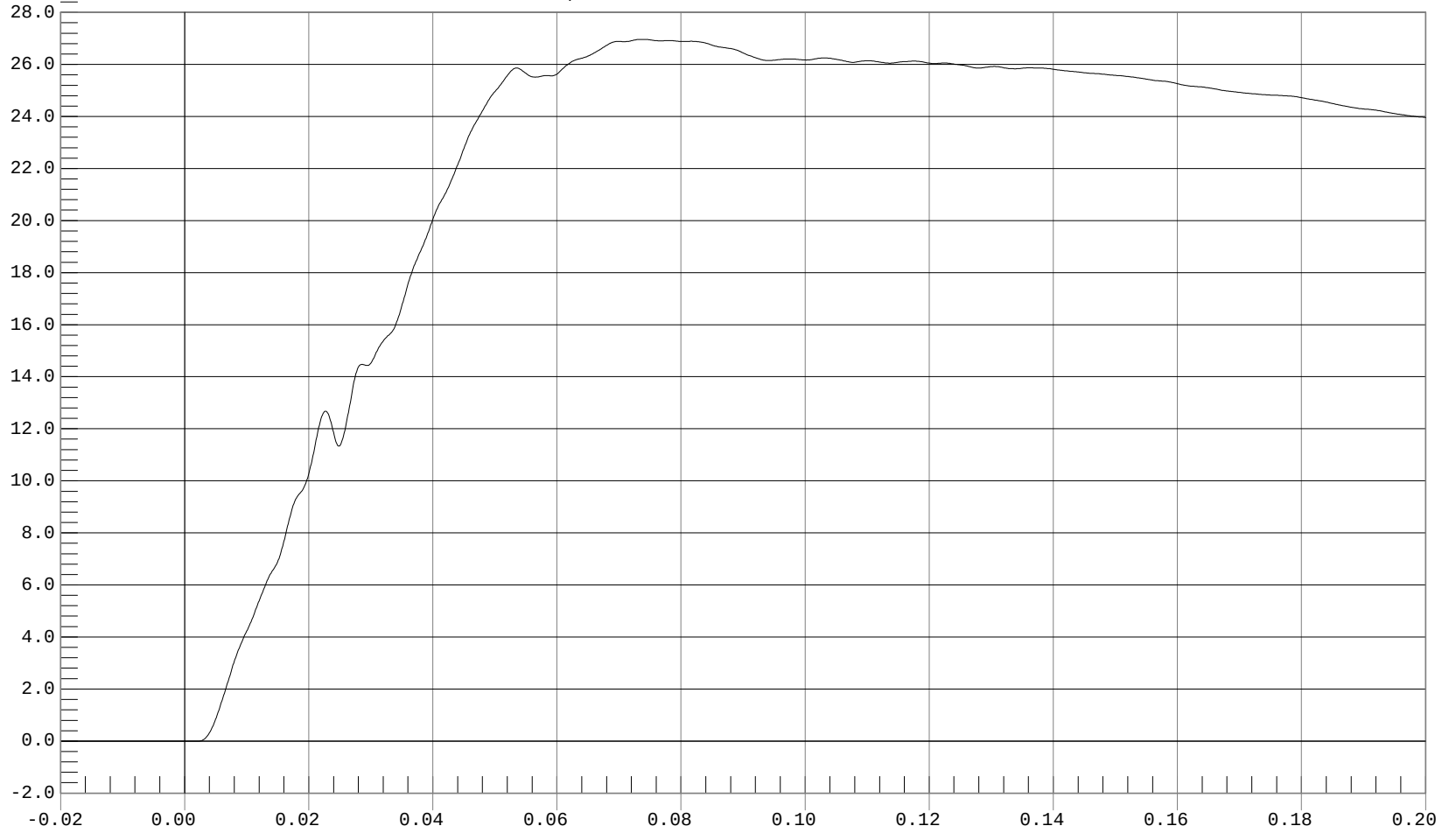
Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 VEHICLE CG Y VELOCITY, B01079AI.V34

Ymin = 0 KPH @ -0.0081 Seconds, Ymax = 26.96 KPH @ 0.0738 Seconds

KPH



Seconds



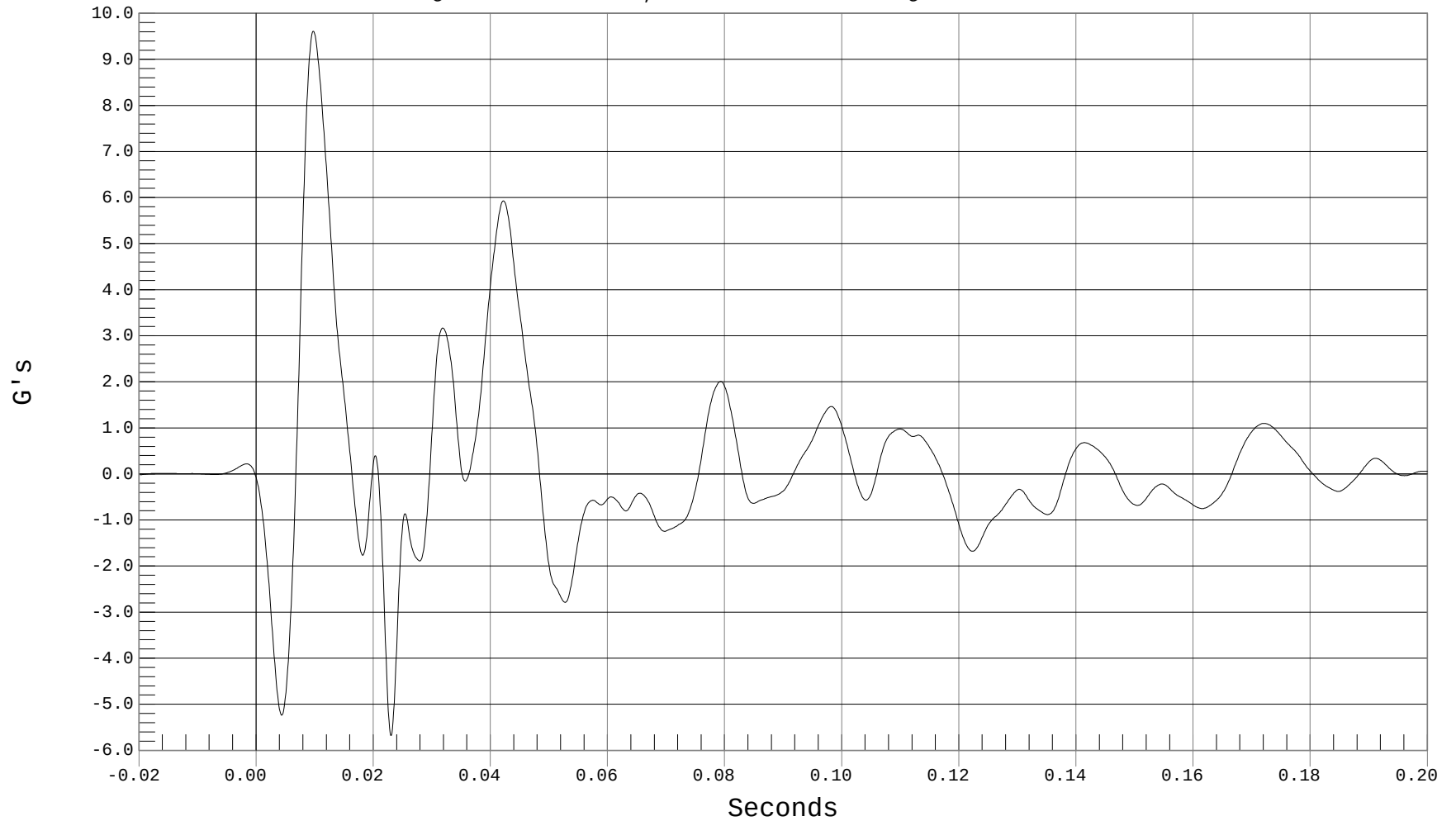
VEHICLE CG Z ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 VEHICLE CG Z, B01079AF.A35

Ymin = -5.68 G's @ 0.0230 Seconds, Ymax = 9.61 G's @ 0.0097 Seconds





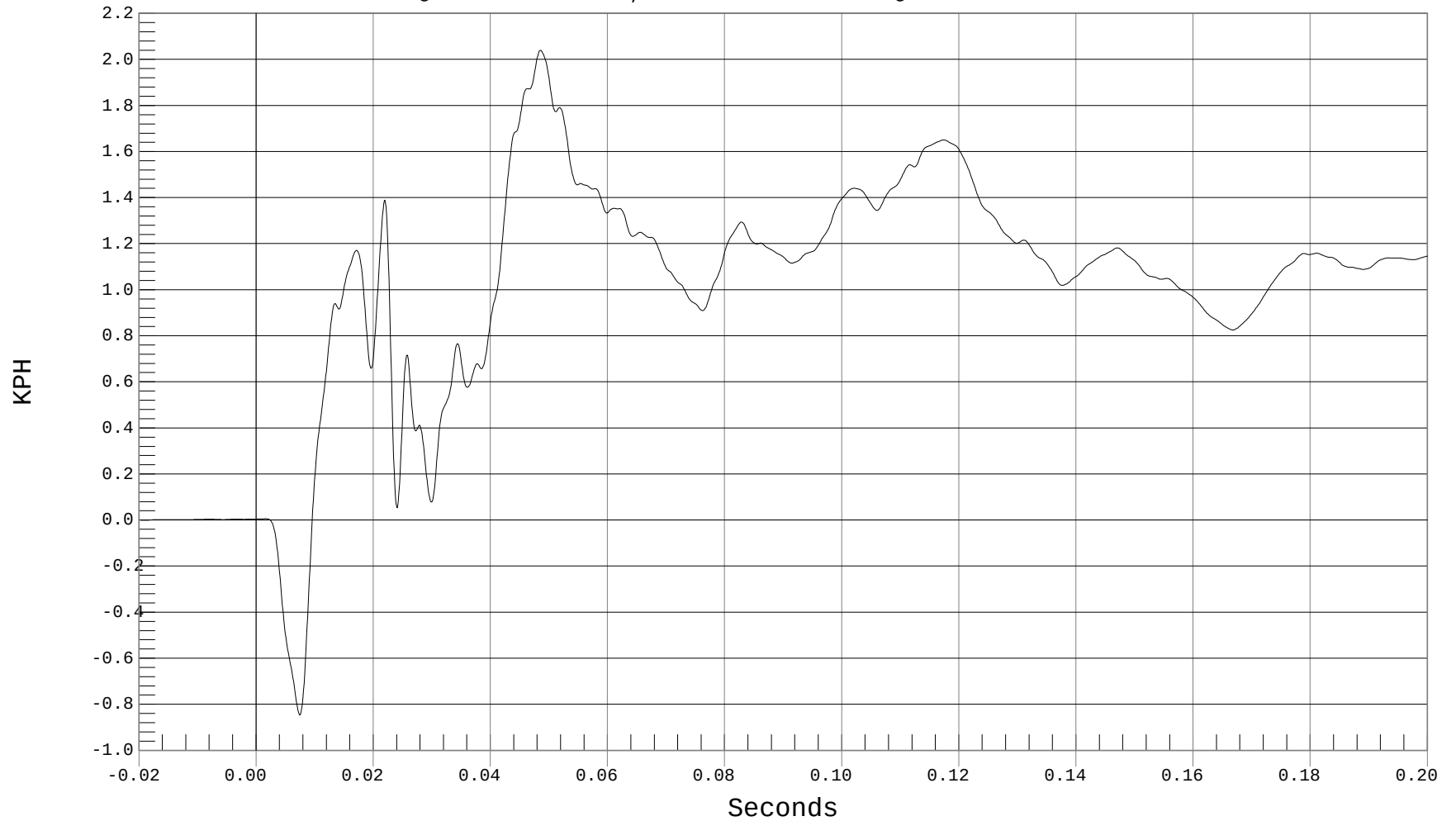
VEHICLE CG Z VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 VEHICLE CG Z VELOCITY, B01079AI.V35

Ymin = -.85 KPH @ 0.0074 Seconds, Ymax = 2.04 KPH @ 0.0485 Seconds





VEHICLE CG RESULTANT ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

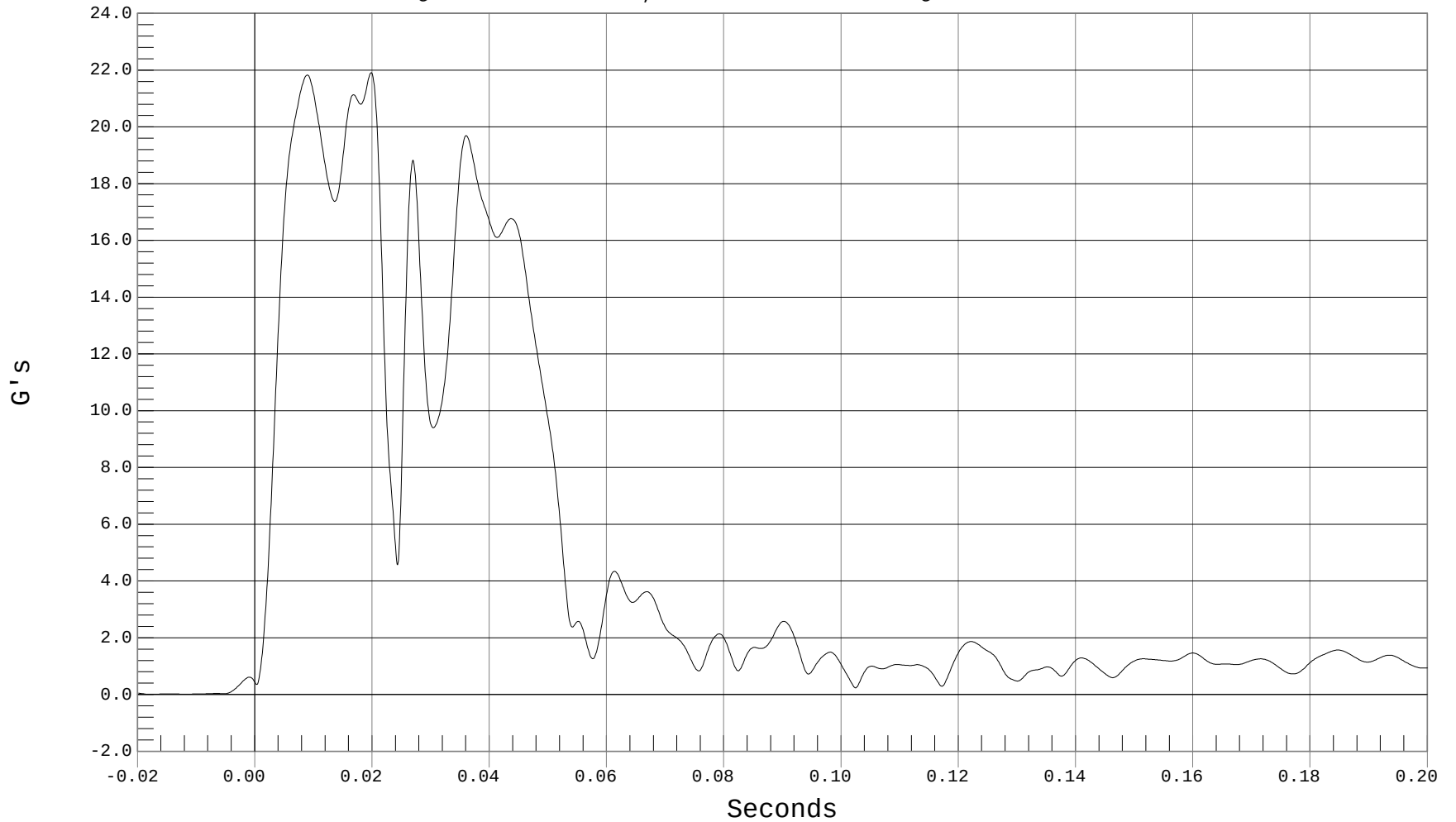
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 VEHICLE CG RESULTANT ACCELERATION, B01079AV.A33

Ymin = .01 G's @ -0.0181 Seconds, Ymax = 21.91 G's @ 0.0198 Seconds





LEFT FRONT DOOR MIDREAR Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

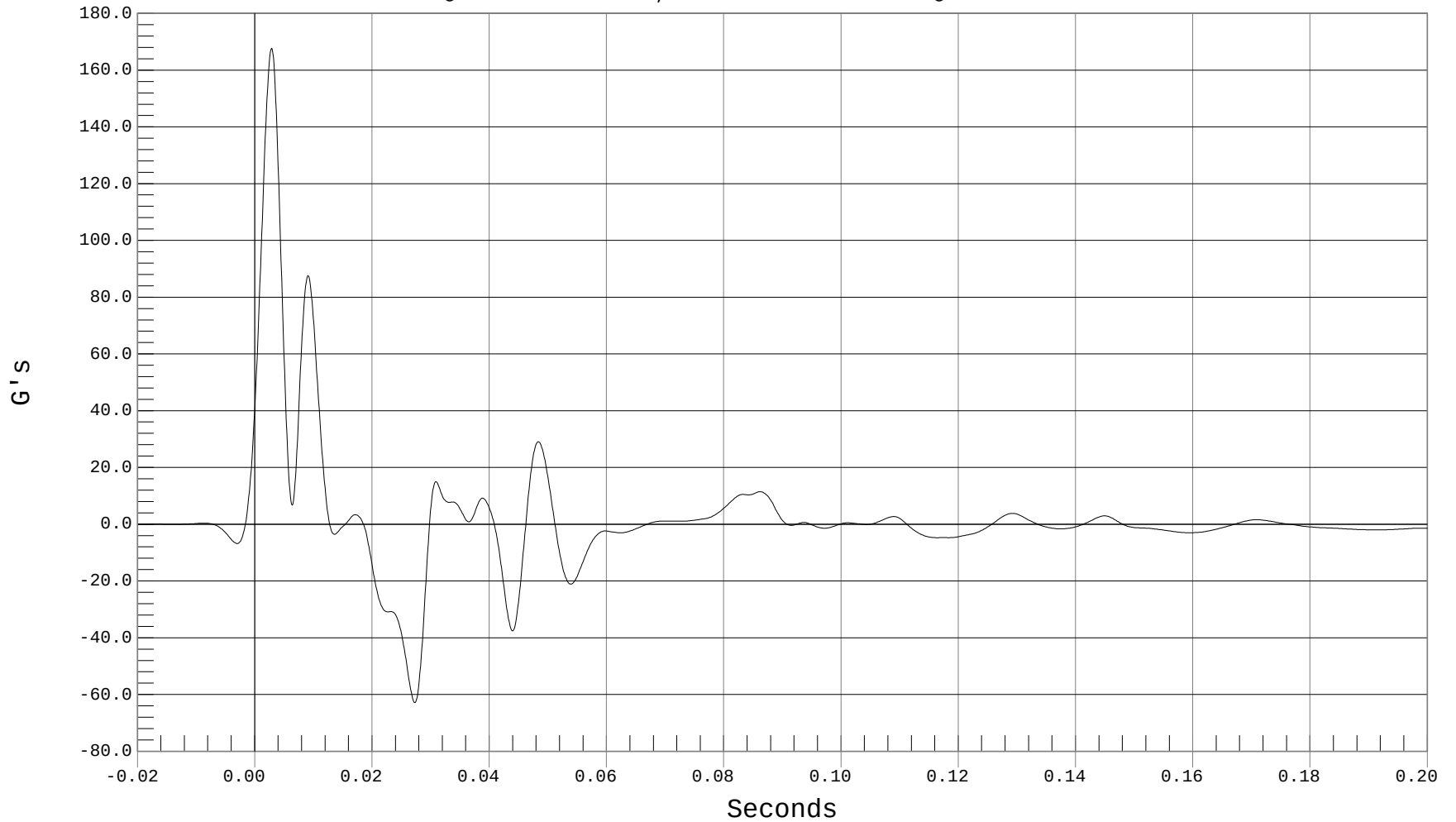
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 MIDREAR OF LEFT FRT.DOOR, B01079AF.A37

Ymin = -62.85 G's @ 0.0272 Seconds, Ymax = 167.7 G's @ 0.0028 Seconds





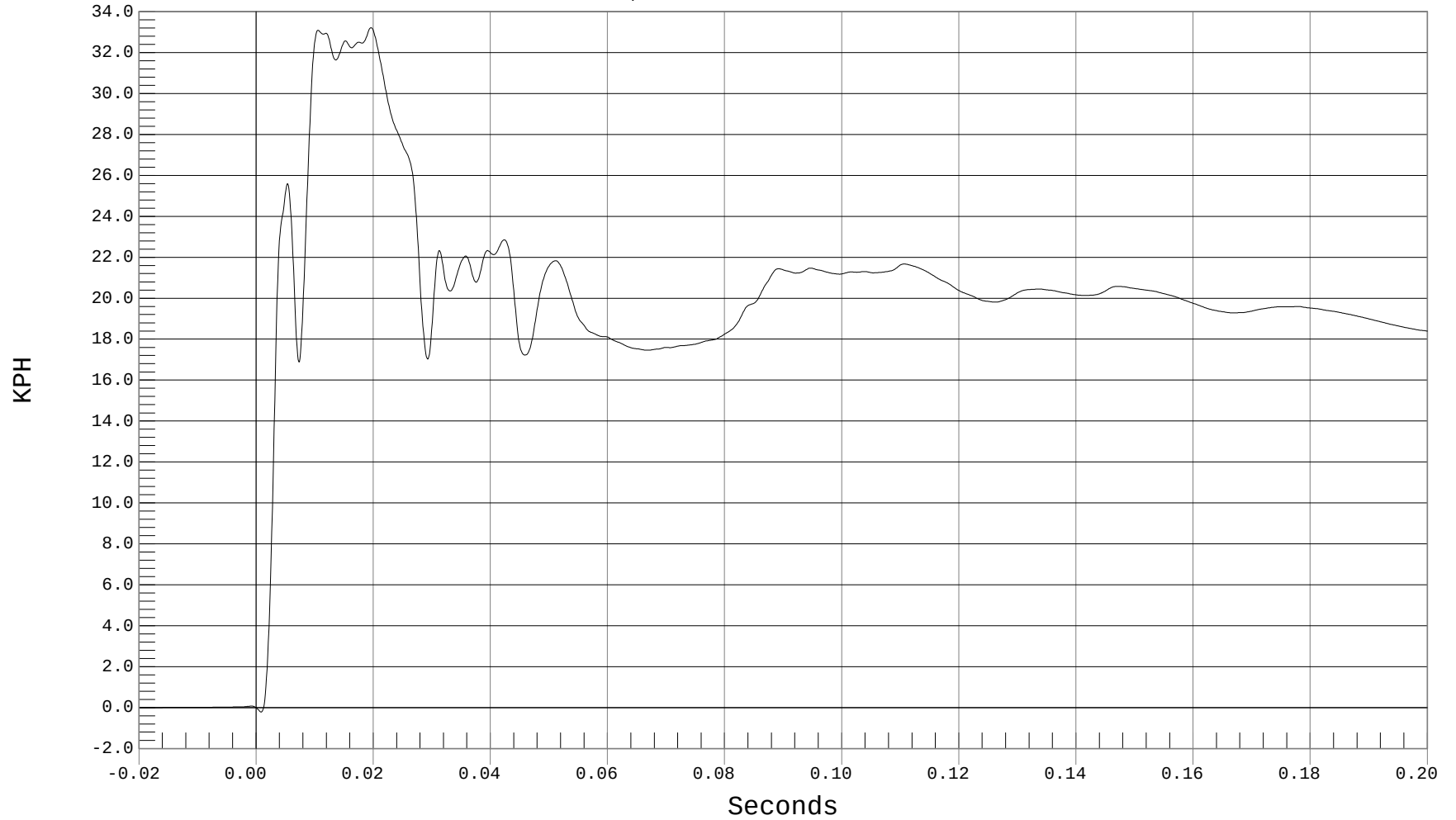
LEFT FRONT DOOR MIDREAR Y VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 LEFT FRONT DOOR MIDREAR Y VELOCITY, B01079AI.V37

Ymin = -.22 KPH @ 0.0008 Seconds, Ymax = 33.22 KPH @ 0.0195 Seconds





LEFT FRONT DOOR CENTERLINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

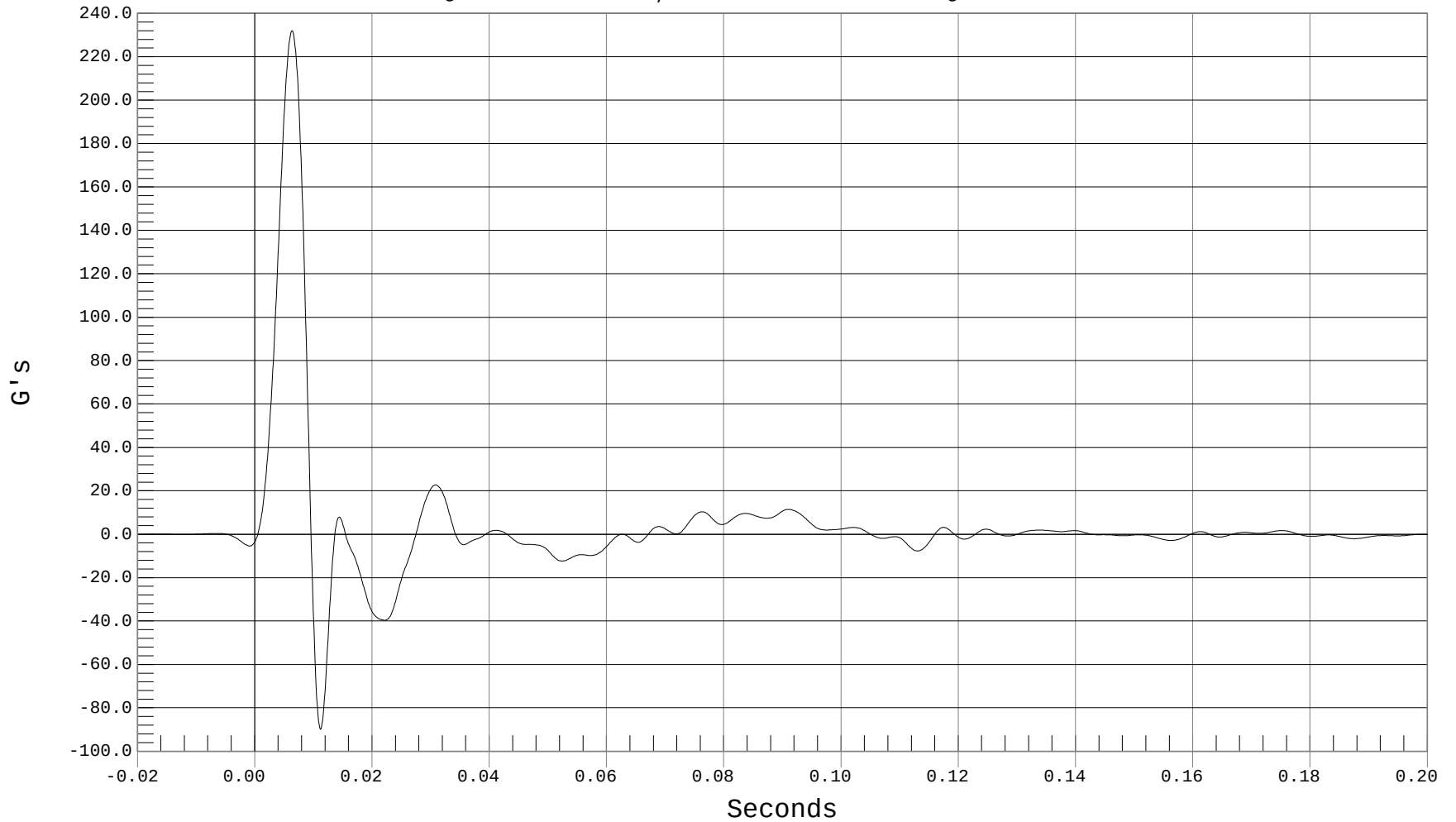
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 LEFT FRONT DOOR ON CENTERLINE, B01079AF.A36

Ymin = -89.88 G's @ 0.0111 Seconds, Ymax = 231.95 G's @ 0.0063 Seconds





LEFT FRONT DOOR CENTERLINE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

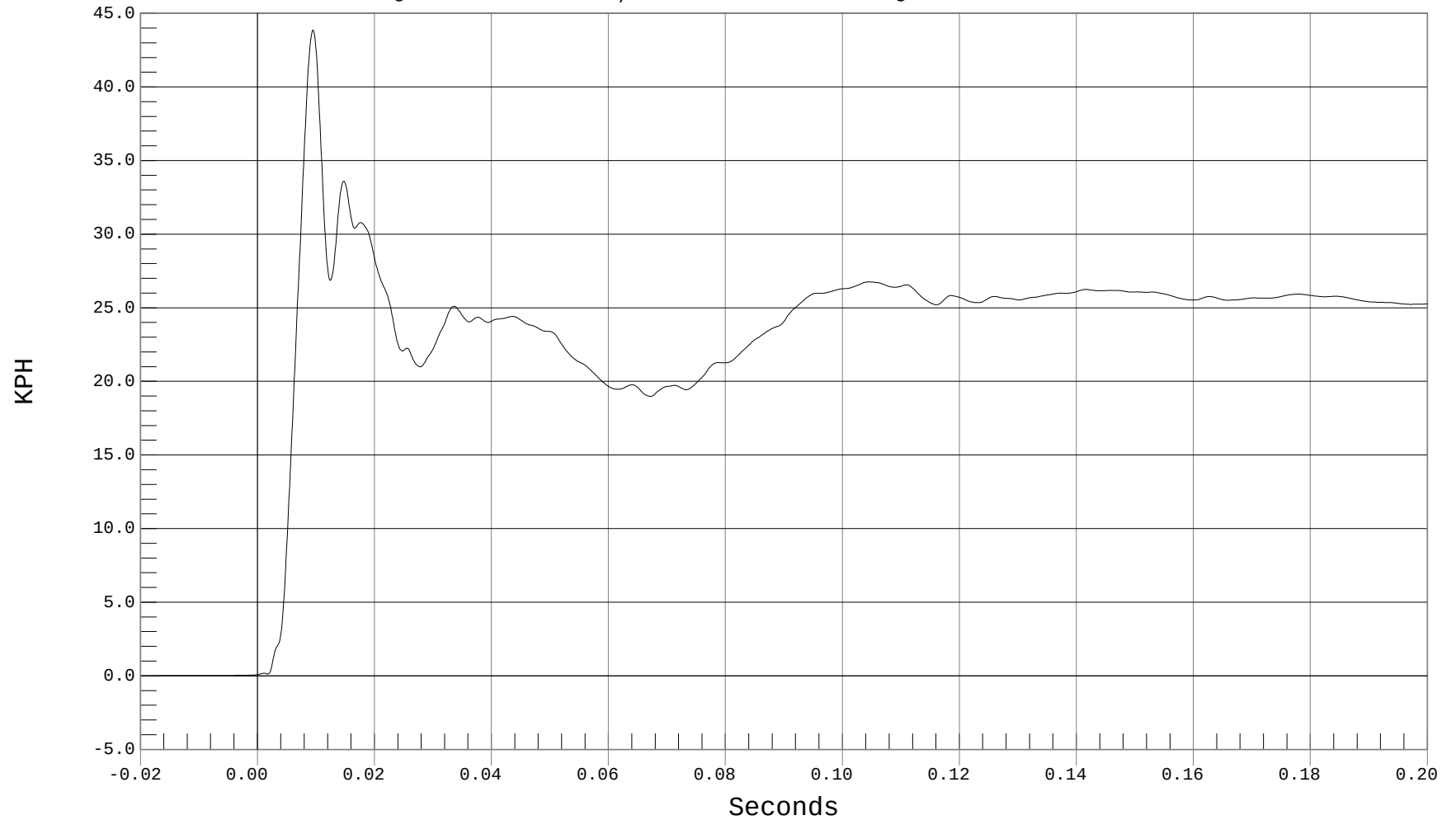
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT FRONT DOOR CENTERLINE Y VELOCITY, B01079AI.V36

Ymin = 0 KPH @ -0.0193 Seconds, Ymax = 43.87 KPH @ 0.0094 Seconds





LEFT FRONT DOOR UPPER CENTERLINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

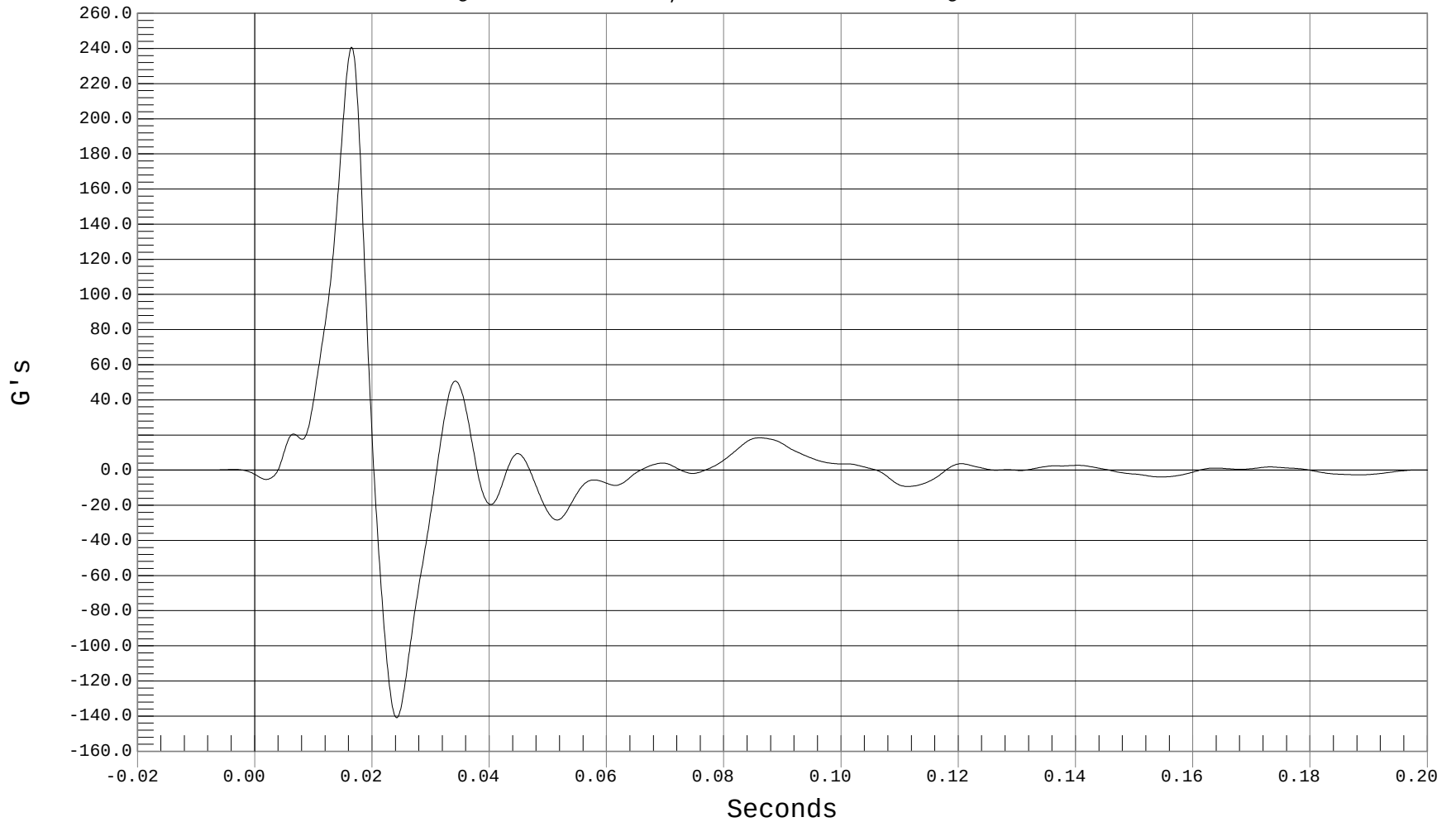
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 LEFT FRONT DOOR UPPER CENTERLINE, B01079AF.A38

Ymin = -140.96 G's @ 0.0241 Seconds, Ymax = 240.8 G's @ 0.0164 Seconds





LEFT FRONT DOOR UPPER CENTERLINE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

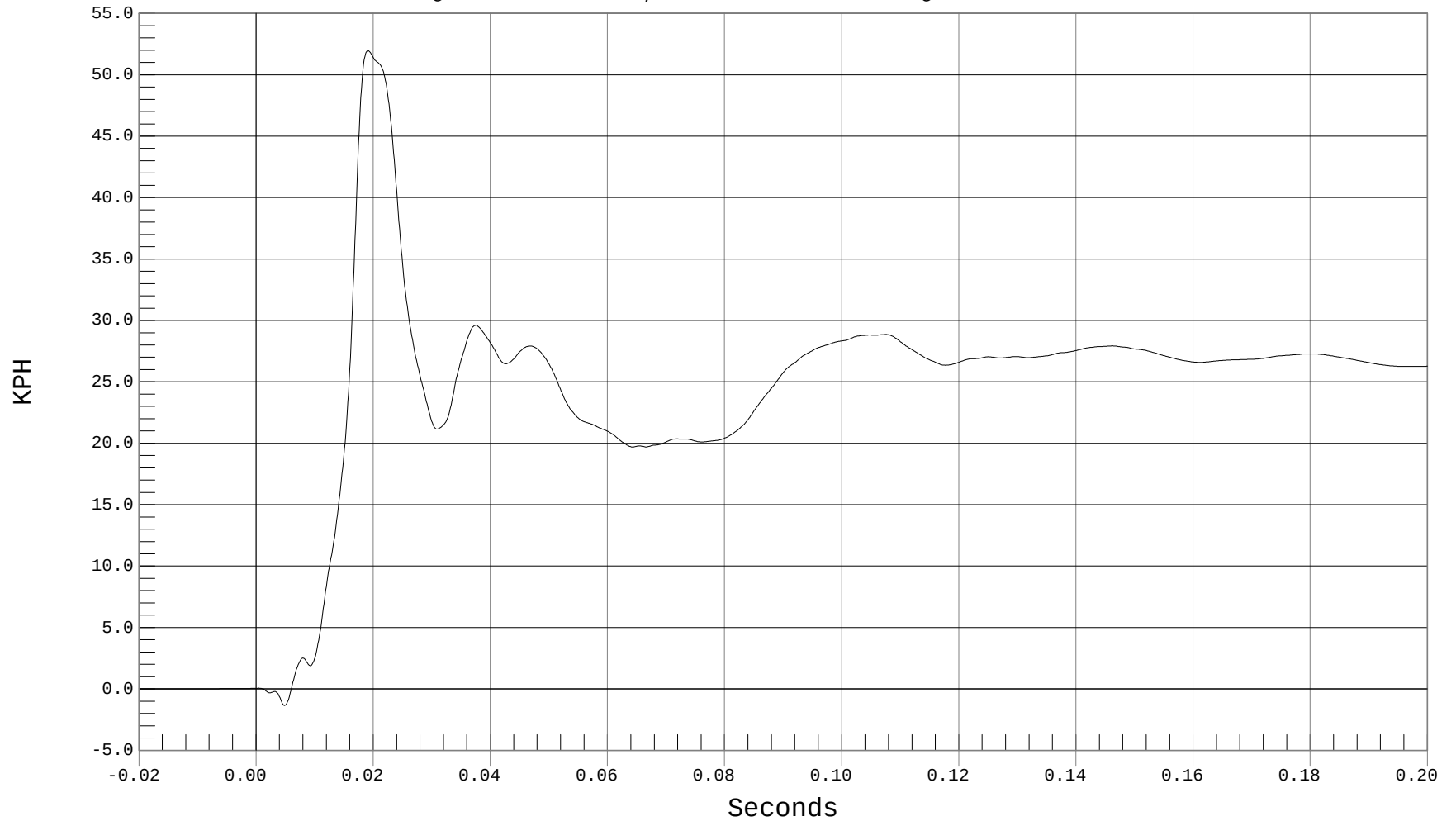
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT FRONT DOOR UPPER CENTERLINE Y VELOCITY, B01079AI.V38

Ymin = -1.34 KPH @ 0.0048 Seconds, Ymax = 51.97 KPH @ 0.0190 Seconds





LEFT REAR DOOR MIDREAR Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

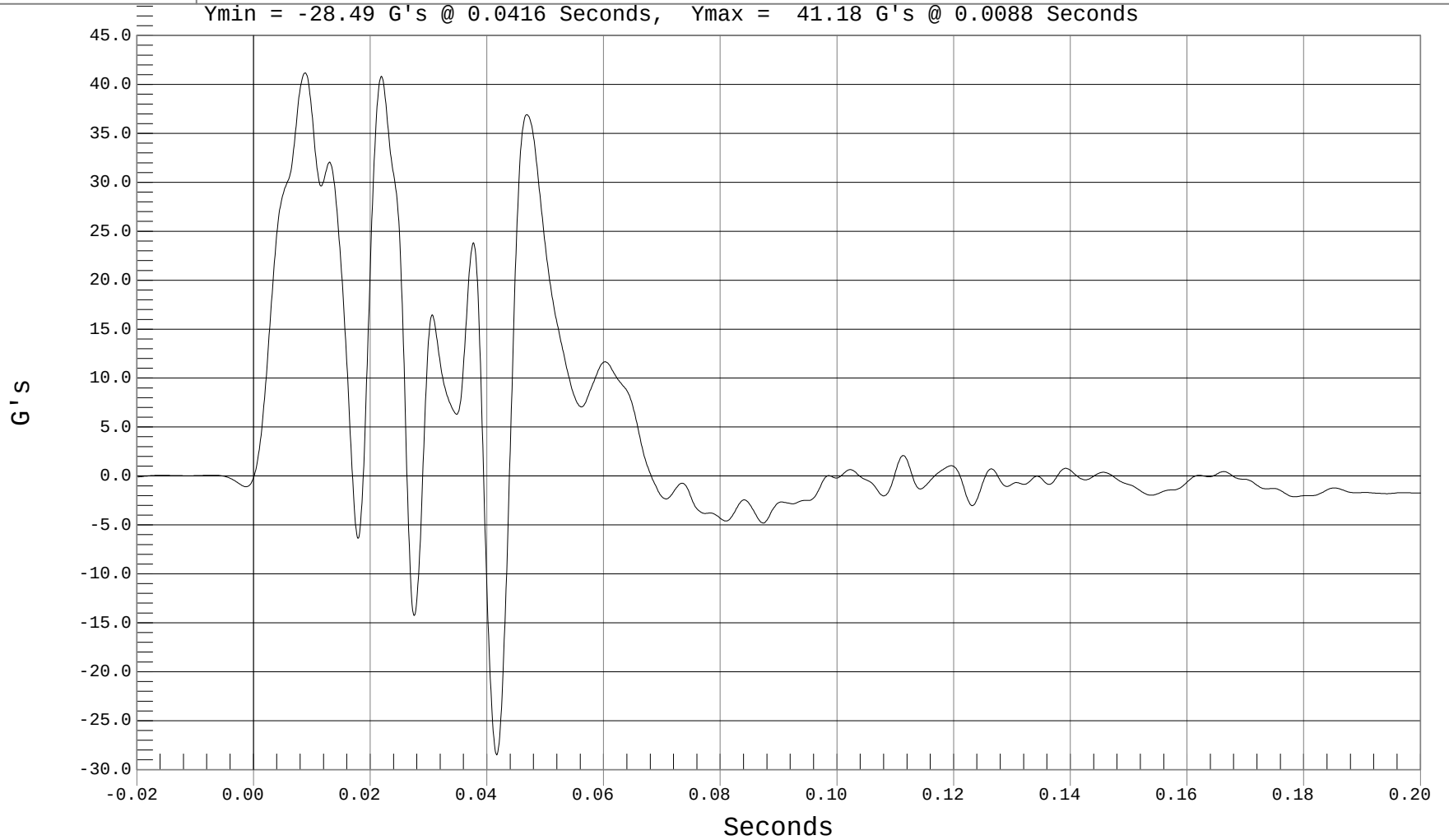
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 MIDREAR OF LEFT REAR DOOR, B01079AF.A39

Ymin = -28.49 G's @ 0.0416 Seconds, Ymax = 41.18 G's @ 0.0088 Seconds





LEFT REAR DOOR MIDREAR Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

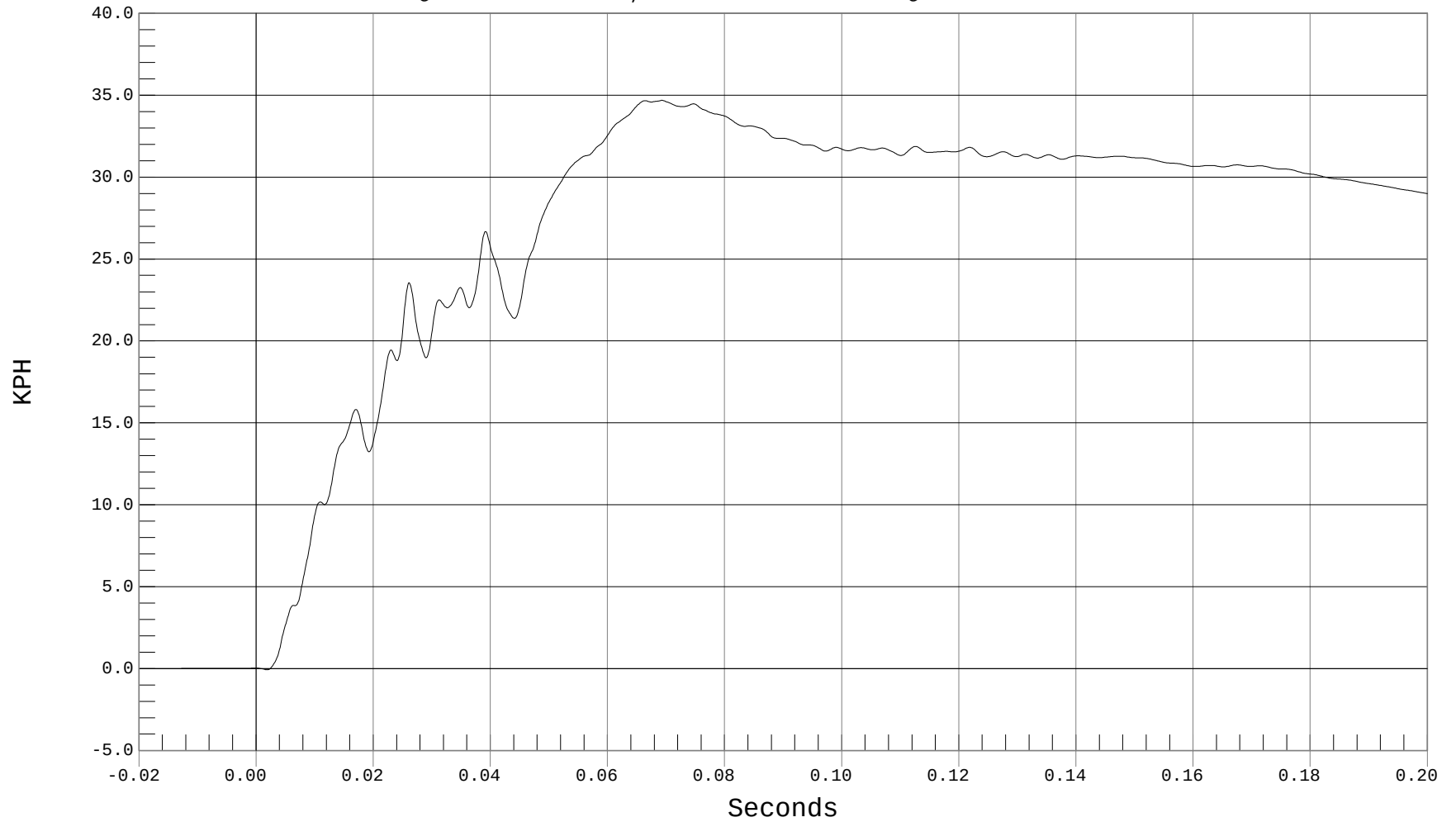
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT REAR DOOR MIDREAR Y VELOCITY, B01079AI.V39

Ymin = -.07 KPH @ 0.0018 Seconds, Ymax = 34.69 KPH @ 0.0692 Seconds





LEFT REAR DOOR UPPER CENTERLINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

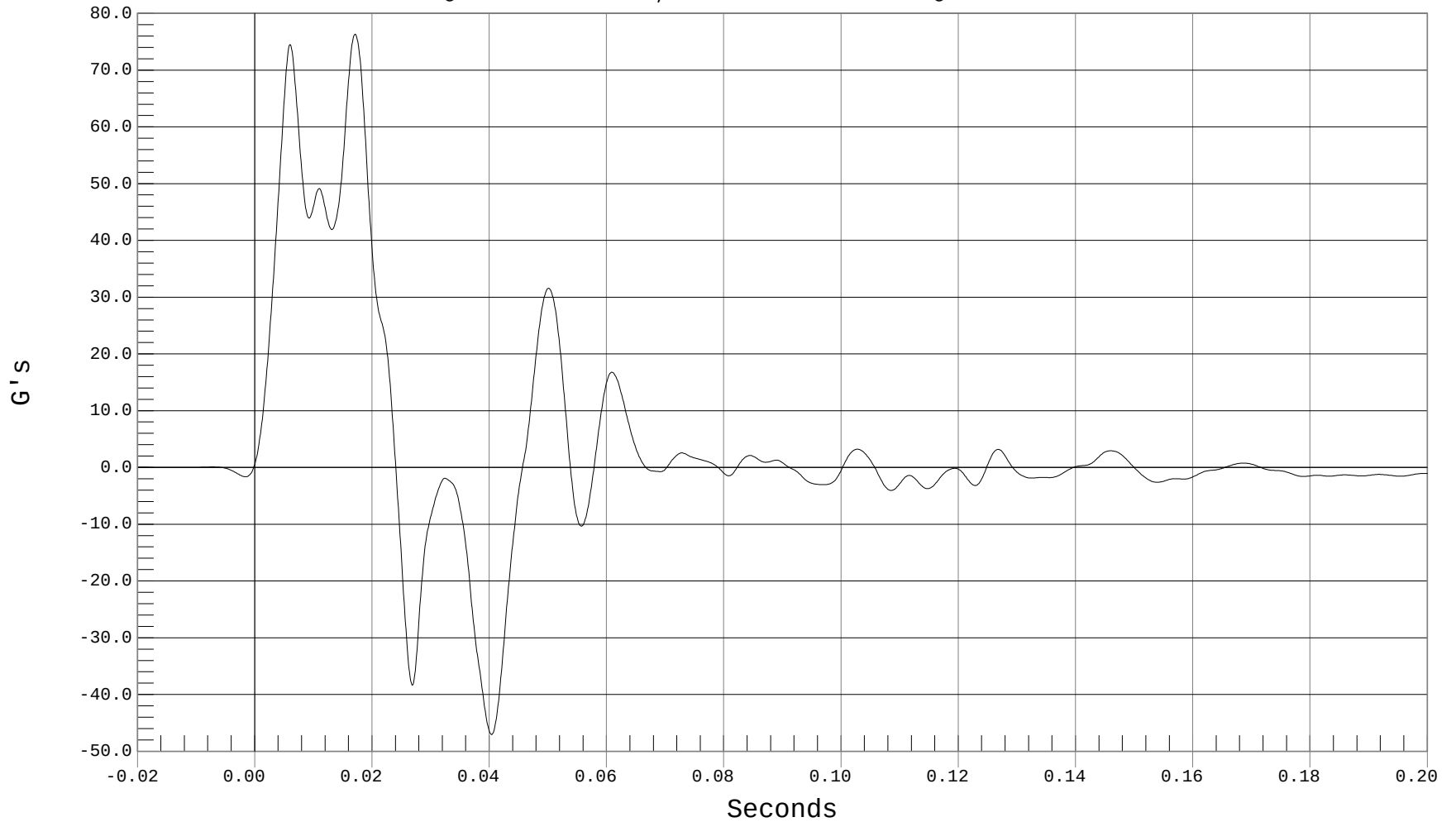
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 60

— 1 LEFT REAR DOOR UPPER CENTERLINE, B01079AF.A40

Ymin = -47.06 G's @ 0.0403 Seconds, Ymax = 76.34 G's @ 0.0170 Seconds





LEFT REAR DOOR UPPER CENTERLINE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

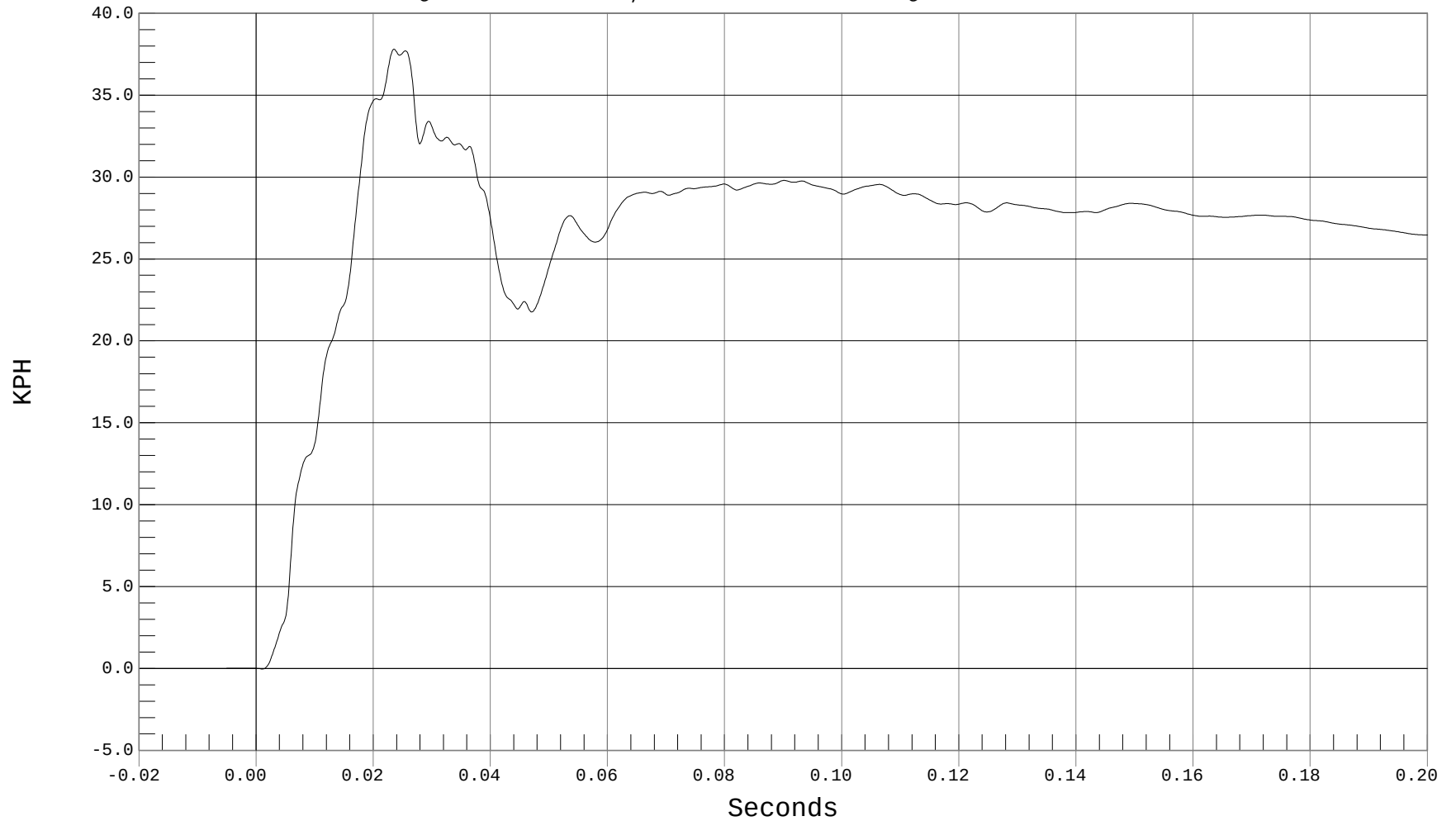
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 LEFT REAR DOOR UPPER CENTERLINE Y VELOCITY, B01079AI.V40

Ymin = -.03 KPH @ 0.0010 Seconds, Ymax = 37.81 KPH @ 0.0235 Seconds





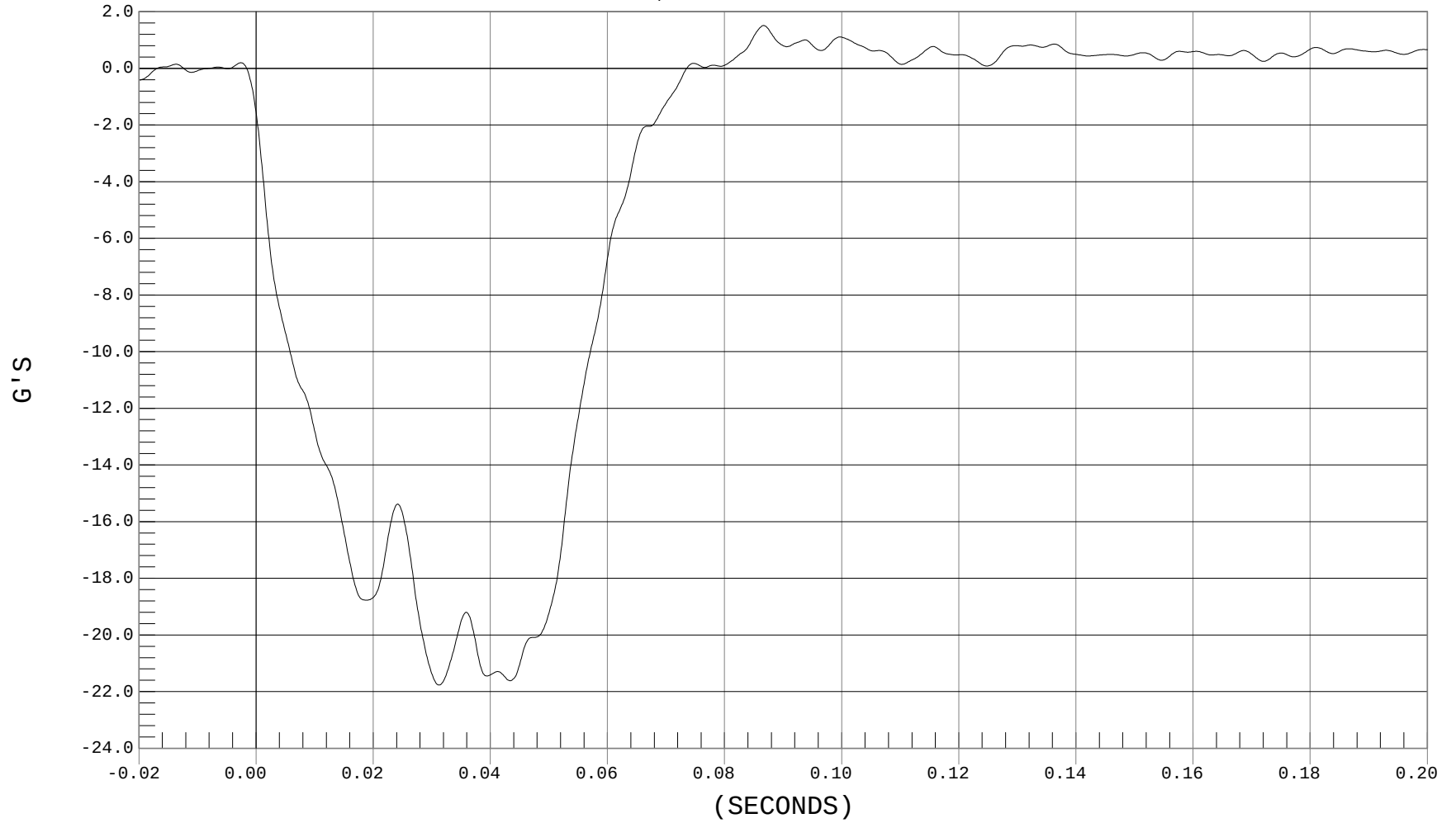
MOVING BARRIER CG X ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART CG X, B01079AF.A07

Ymin = -21.77 G'S @ 0.0311 SECONDS, Ymax = 1.51 G'S @ 0.0866 SECONDS





MOVING BARRIER CG X VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

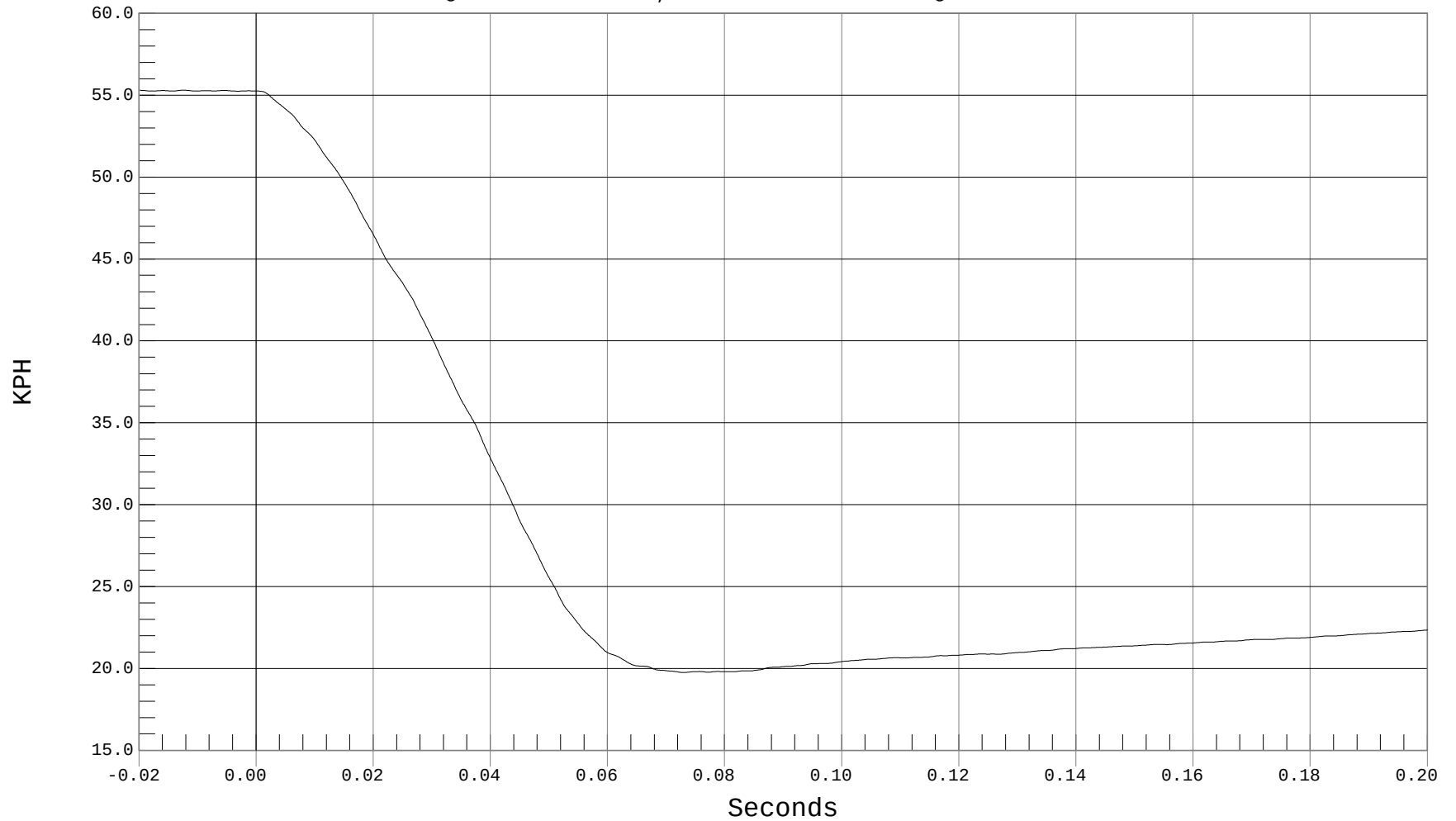
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 MOVING BARRIER CG X VELOCITY, B01079AI.V07

Ymin = 19.76 KPH @ 0.0729 Seconds, Ymax = 55.31 KPH @ -0.0125 Seconds





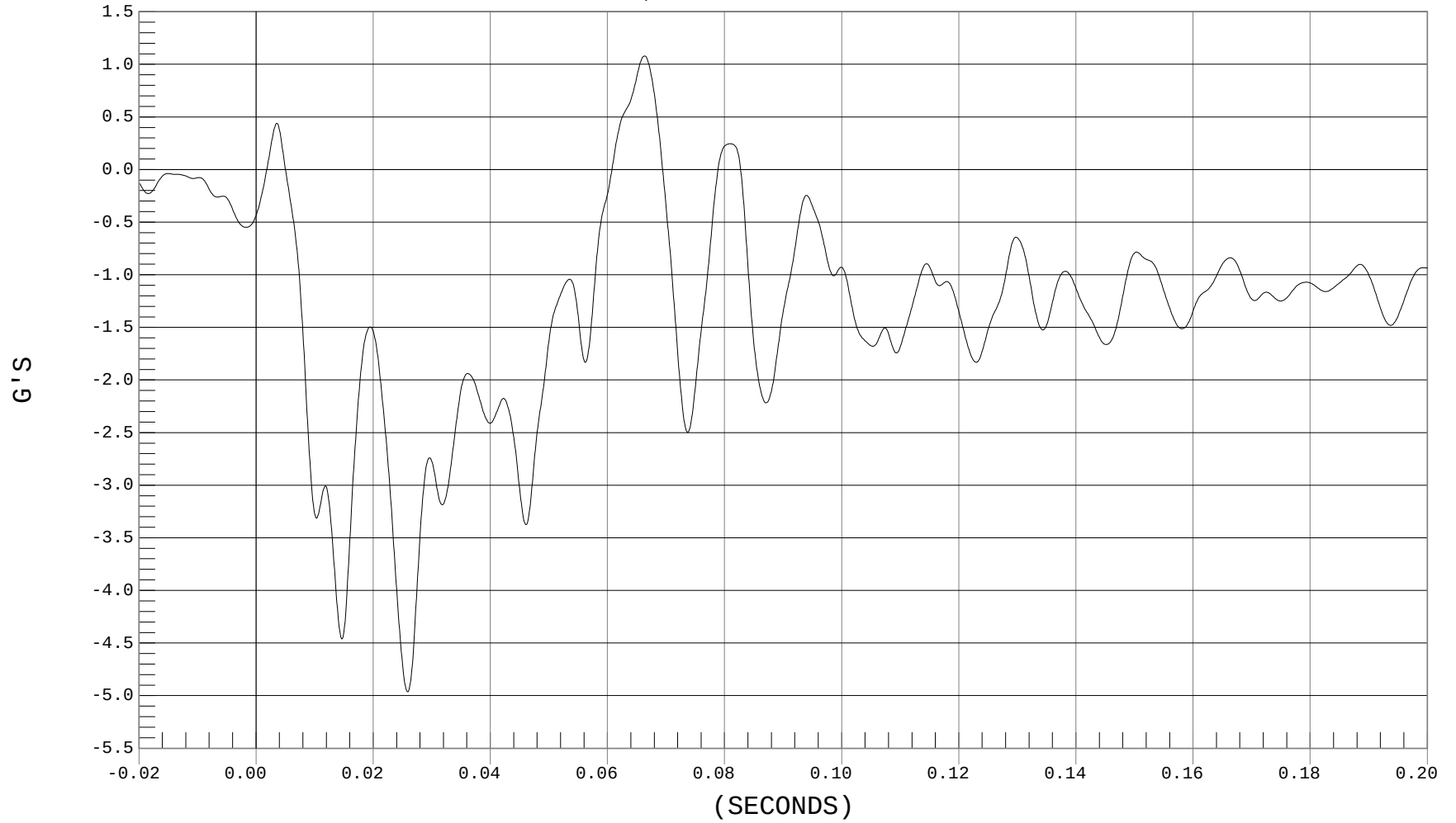
MOVING BARRIER CG Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART CG Y, B01079AF.A03

Ymin = -4.96 G'S @ 0.0258 SECONDS, Ymax = 1.08 G'S @ 0.0662 SECONDS





MOVING BARRIER CG Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

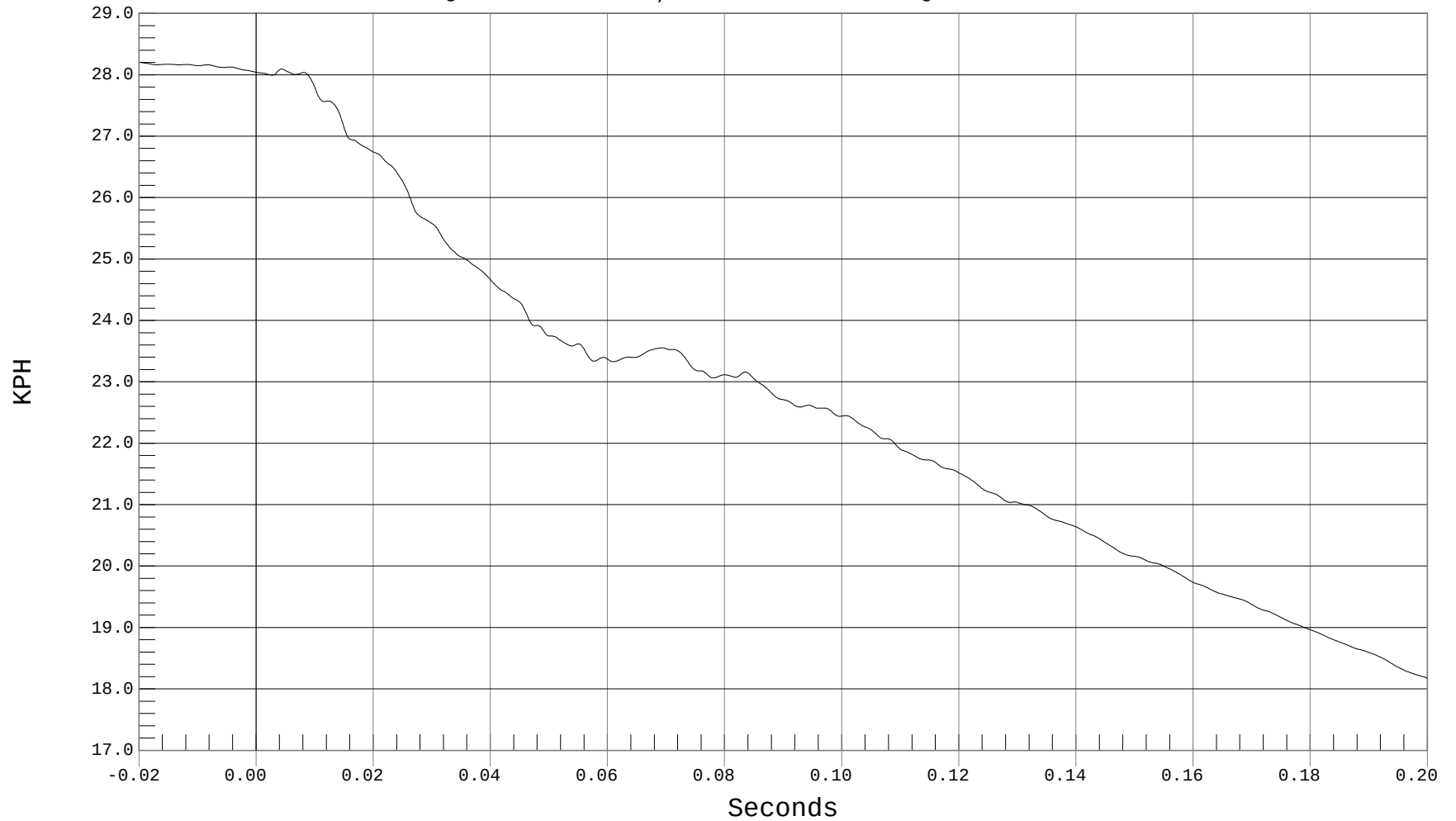
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 MOVING BARRIER CG Y VELOCITY, B01079AI.V03

Ymin = 18.17 KPH @ 0.2000 Seconds, Ymax = 28.2 KPH @ -0.0199 Seconds





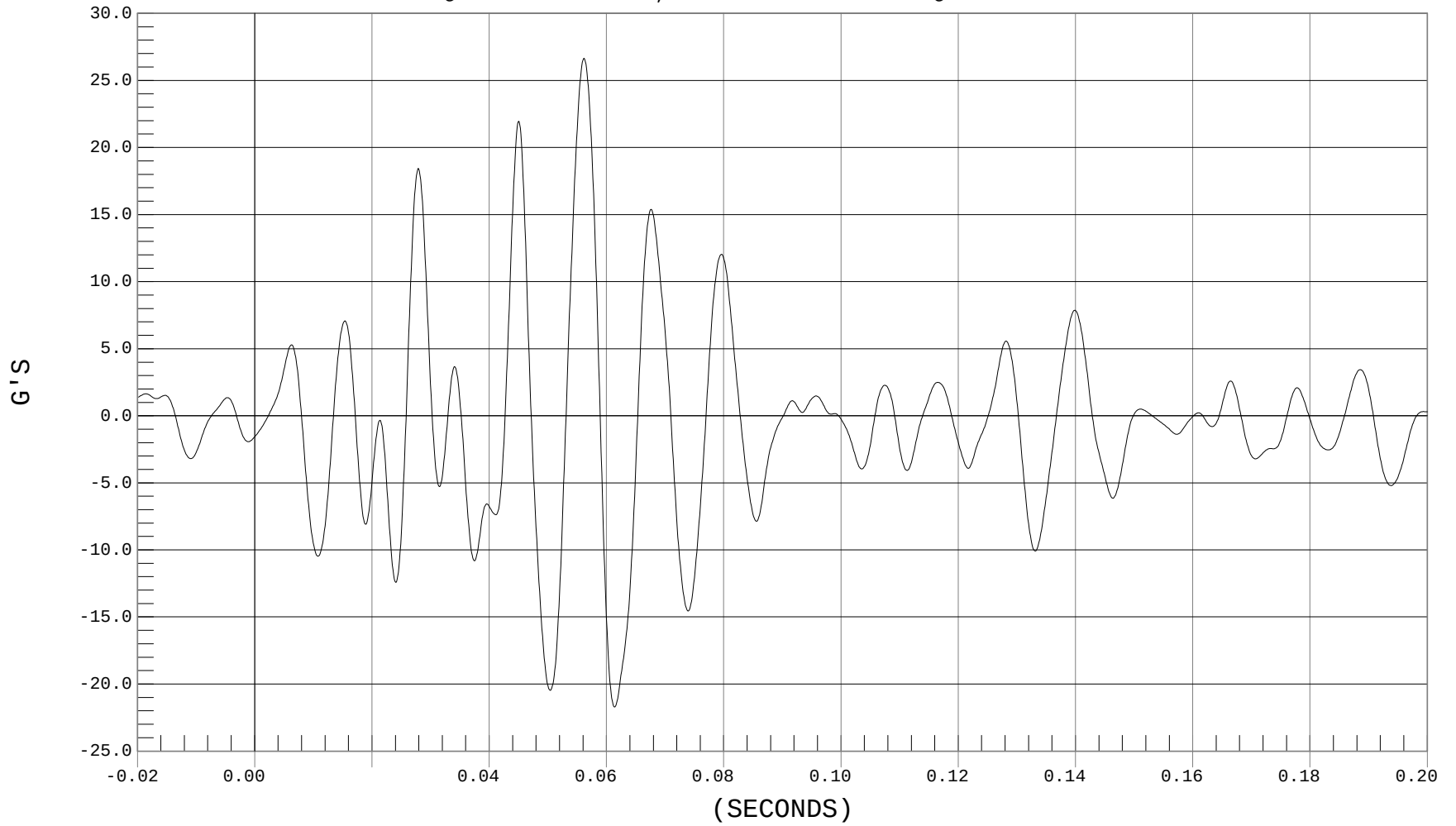
MOVING BARRIER CG Z ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART CG Z, B01079AF.A04

Ymin = -21.72 G'S @ 0.0613 SECONDS, Ymax = 26.65 G'S @ 0.0561 SECONDS





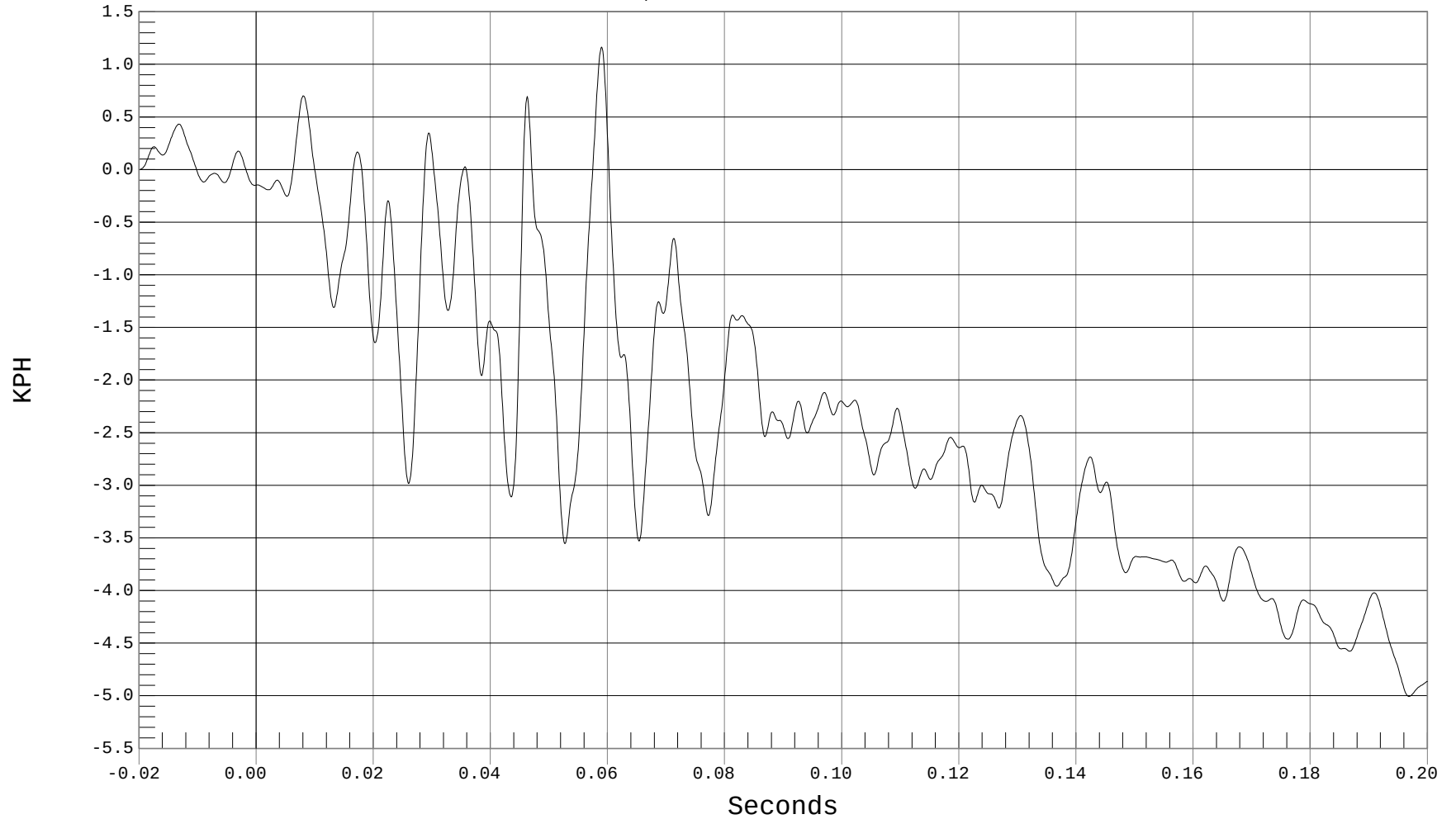
MOVING BARRIER CG Z VELOCITY

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 180

— 1 MOVING BARRIER CG Z VELOCITY, B01079AI.V04

Ymin = -5.01 KPH @ 0.1968 Seconds, Ymax = 1.16 KPH @ 0.0589 Seconds





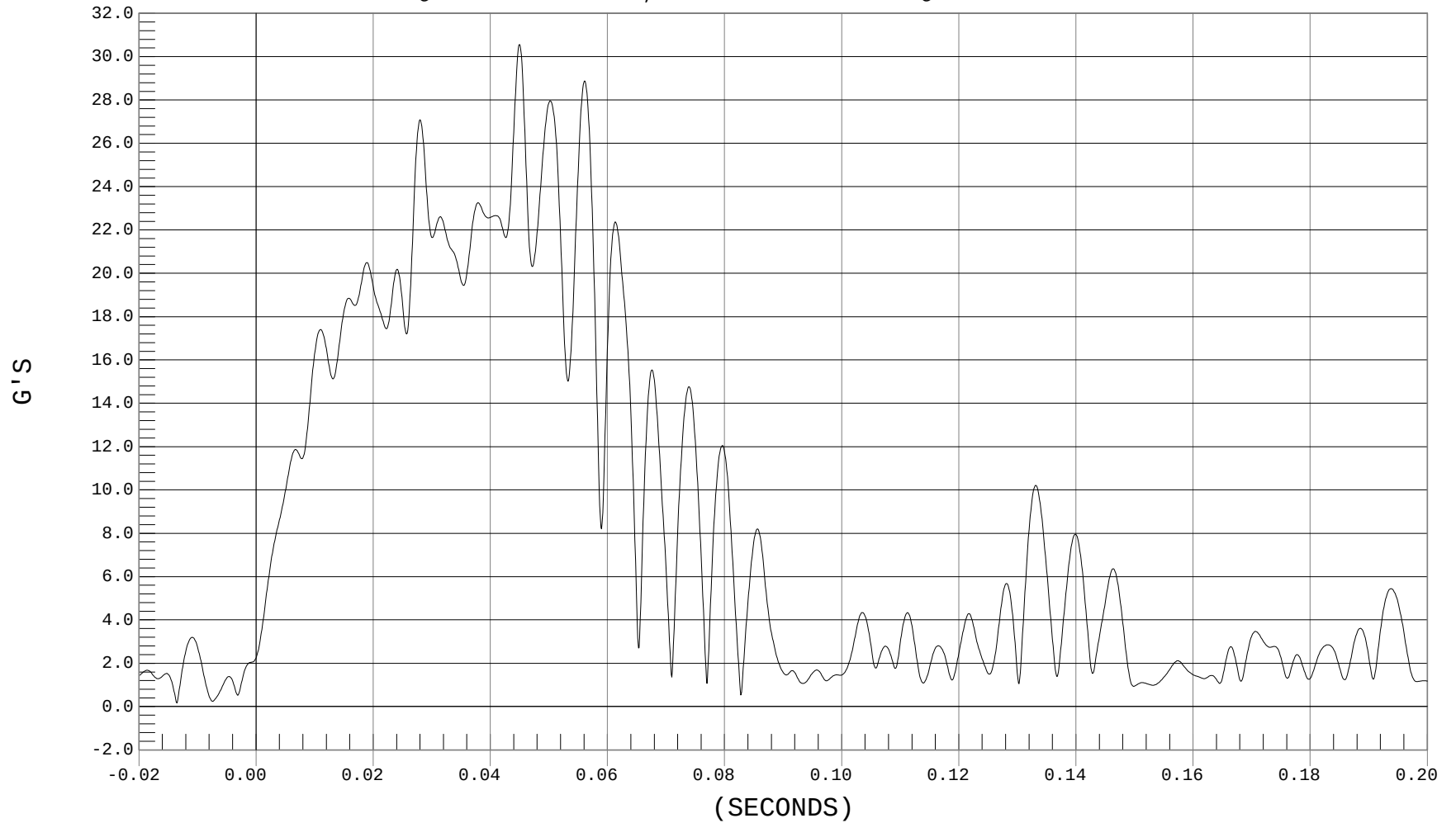
MOVING BARRIER CG RESULTANT ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 MOVING BARRIER CG RESULTANT ACCELERATION, B01079AV.A03

Ymin = .16 G'S @ -0.0136 SECONDS, Ymax = 30.57 G'S @ 0.0449 SECONDS





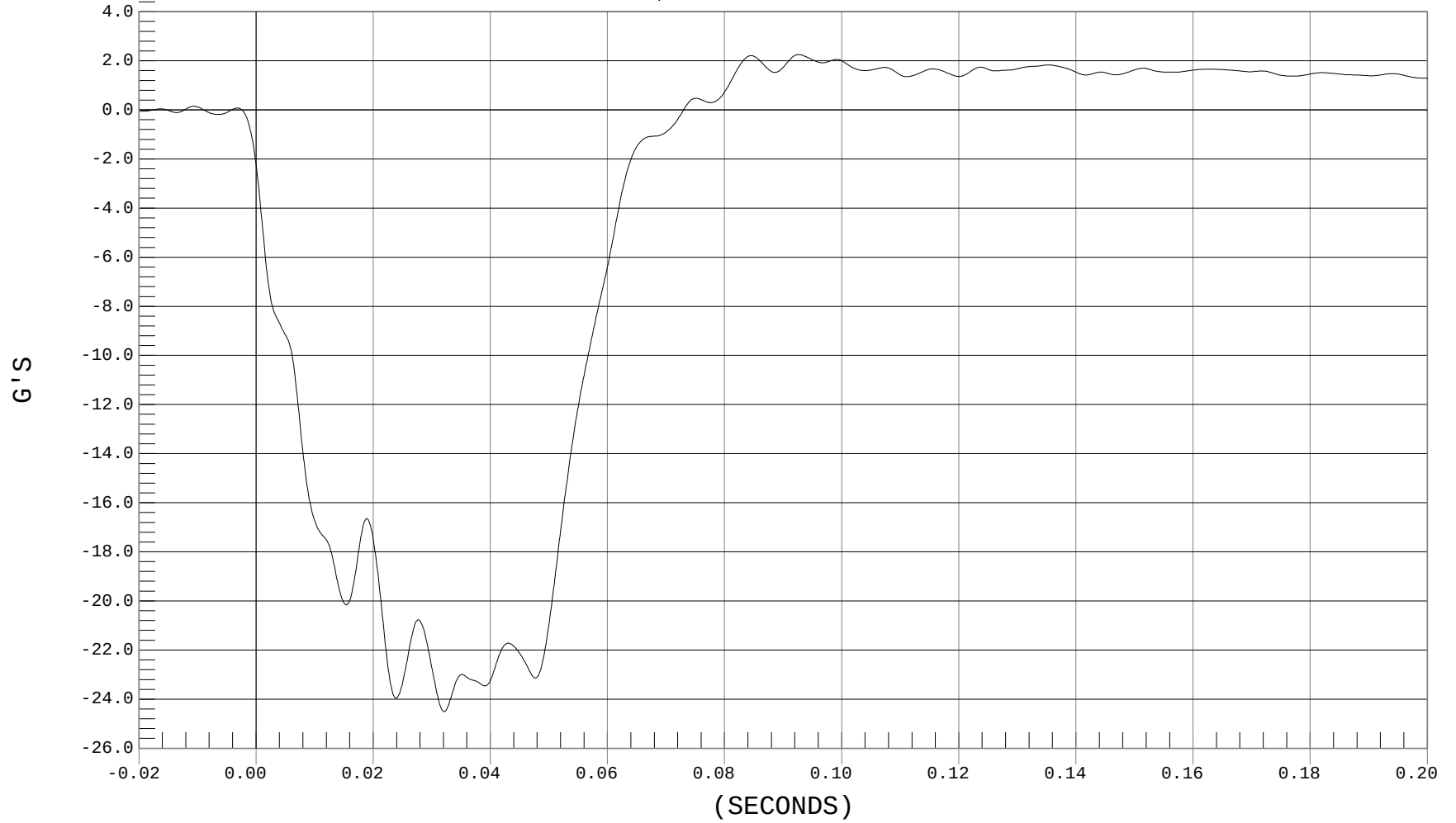
MOVING BARRIER REAR AXLE X ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART REAR X, B01079AF.A05

Ymin = -24.51 G'S @ 0.0320 SECONDS, Ymax = 2.25 G'S @ 0.0926 SECONDS





MOVING BARRIER REAR AXLE X VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

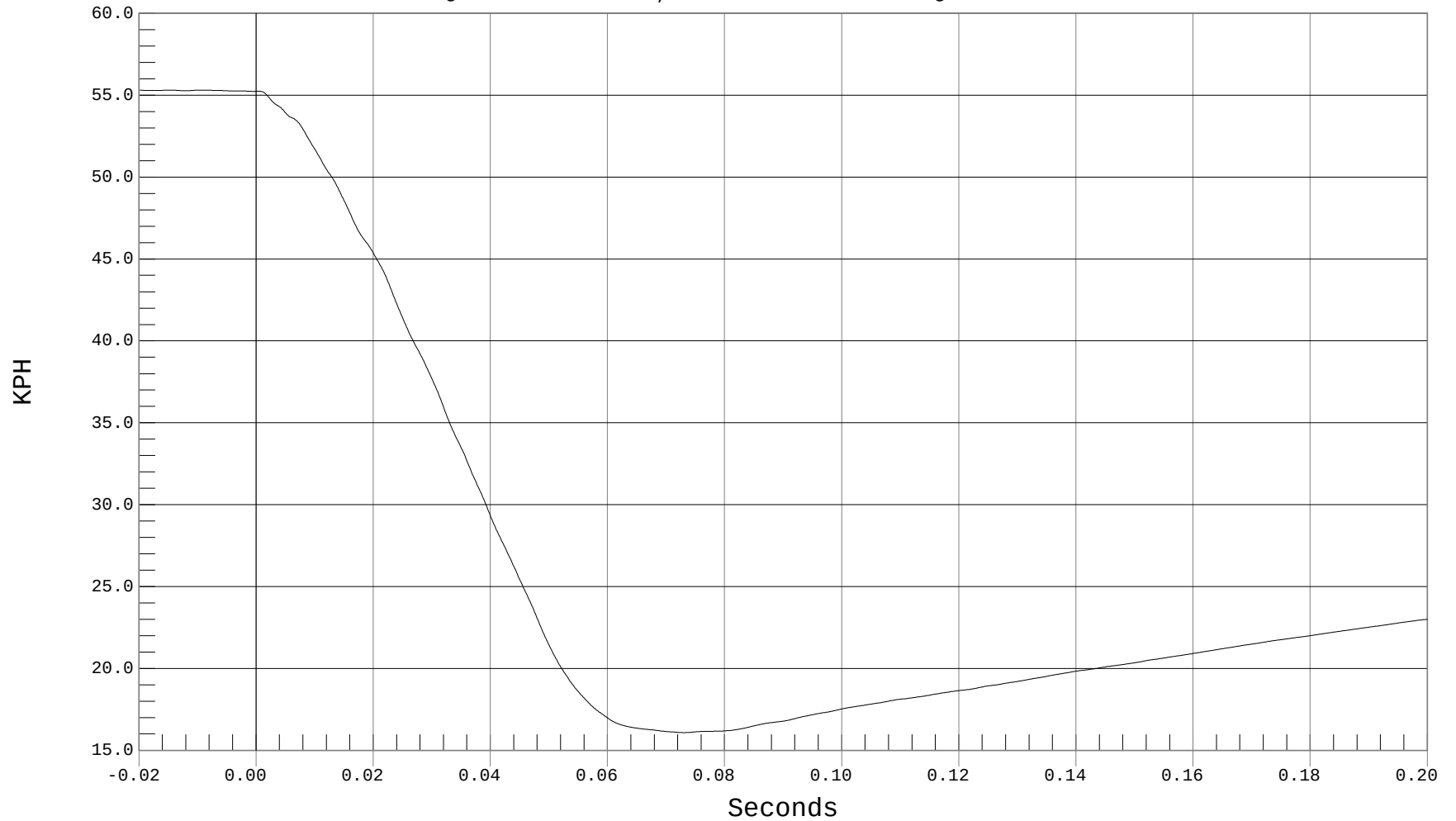
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 MOVING BARRIER REAR AXLE X VELOCITY, B01079AI.V05

Ymin = 16.08 KPH @ 0.0730 Seconds, Ymax = 55.31 KPH @ -0.0095 Seconds





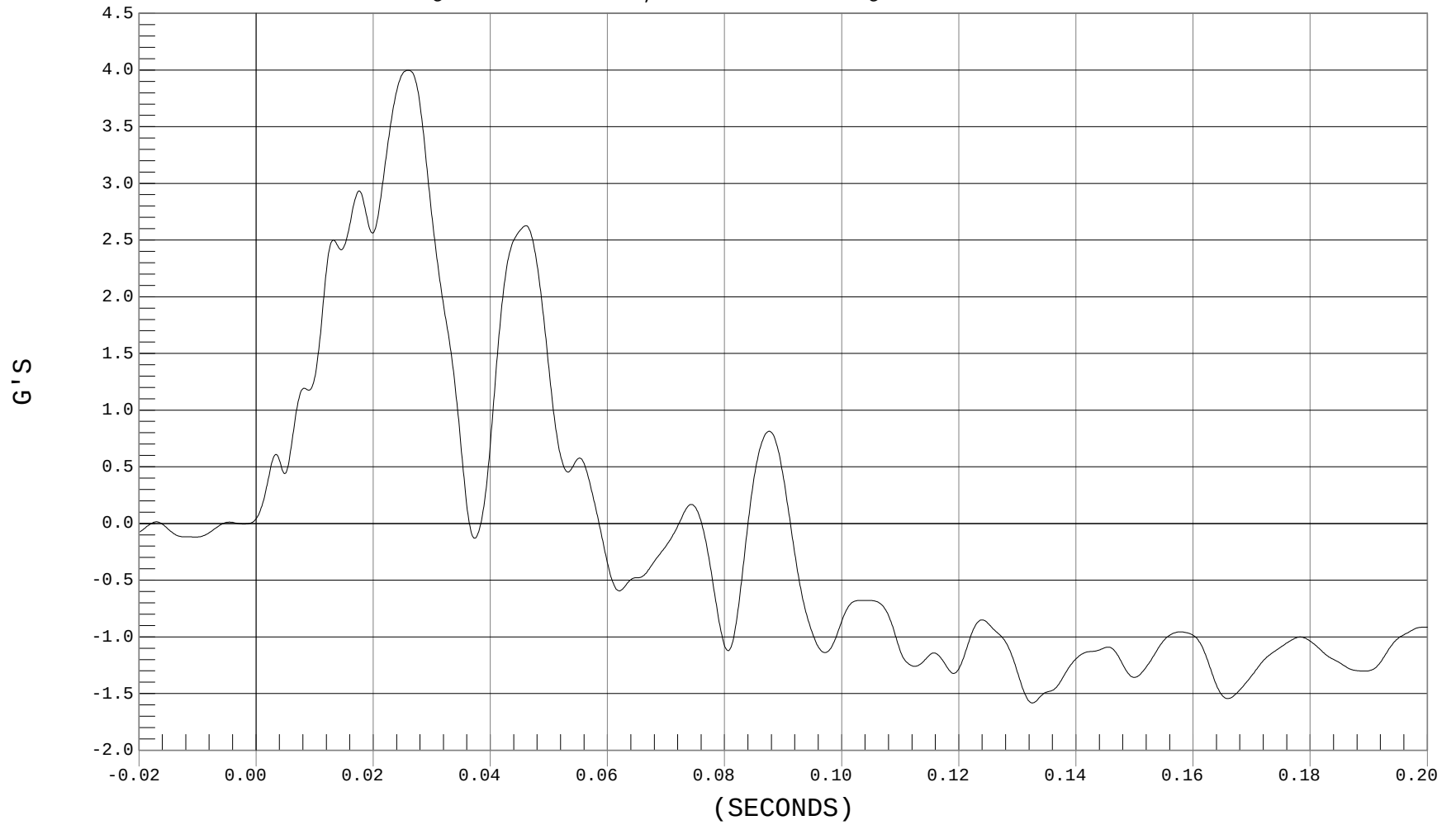
MOVING BARRIER REAR AXLE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 60

— 1 CART REAR Y, B01079AF.A06

Ymin = -1.58 G'S @ 0.1325 SECONDS, Ymax = 4 G'S @ 0.0259 SECONDS





MOVING BARRIER REAR AXLE Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

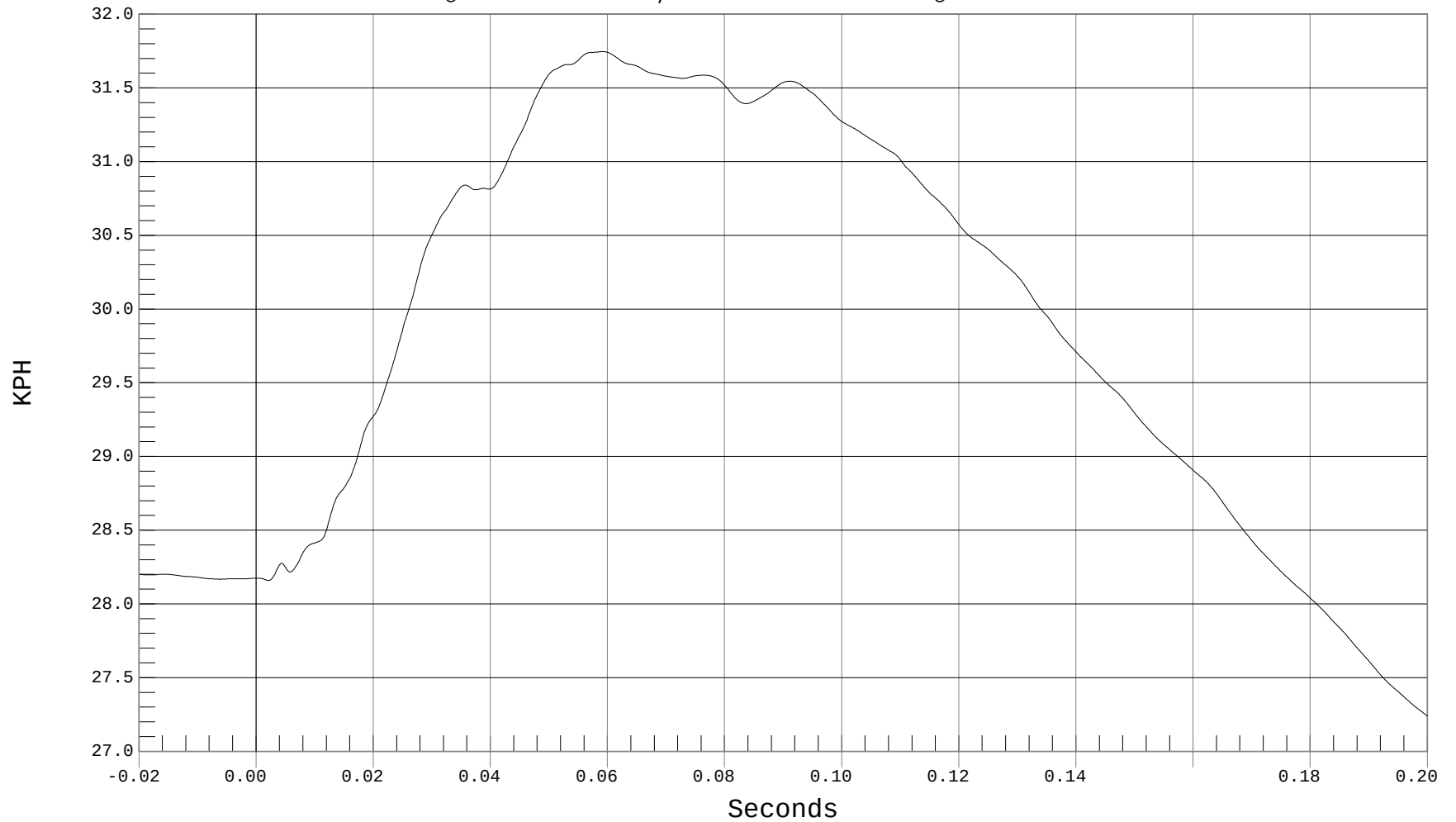
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 MOVING BARRIER REAR AXLE Y VELOCITY, B01079AI.V06

Ymin = 27.24 KPH @ 0.2000 Seconds, Ymax = 31.75 KPH @ 0.0590 Seconds





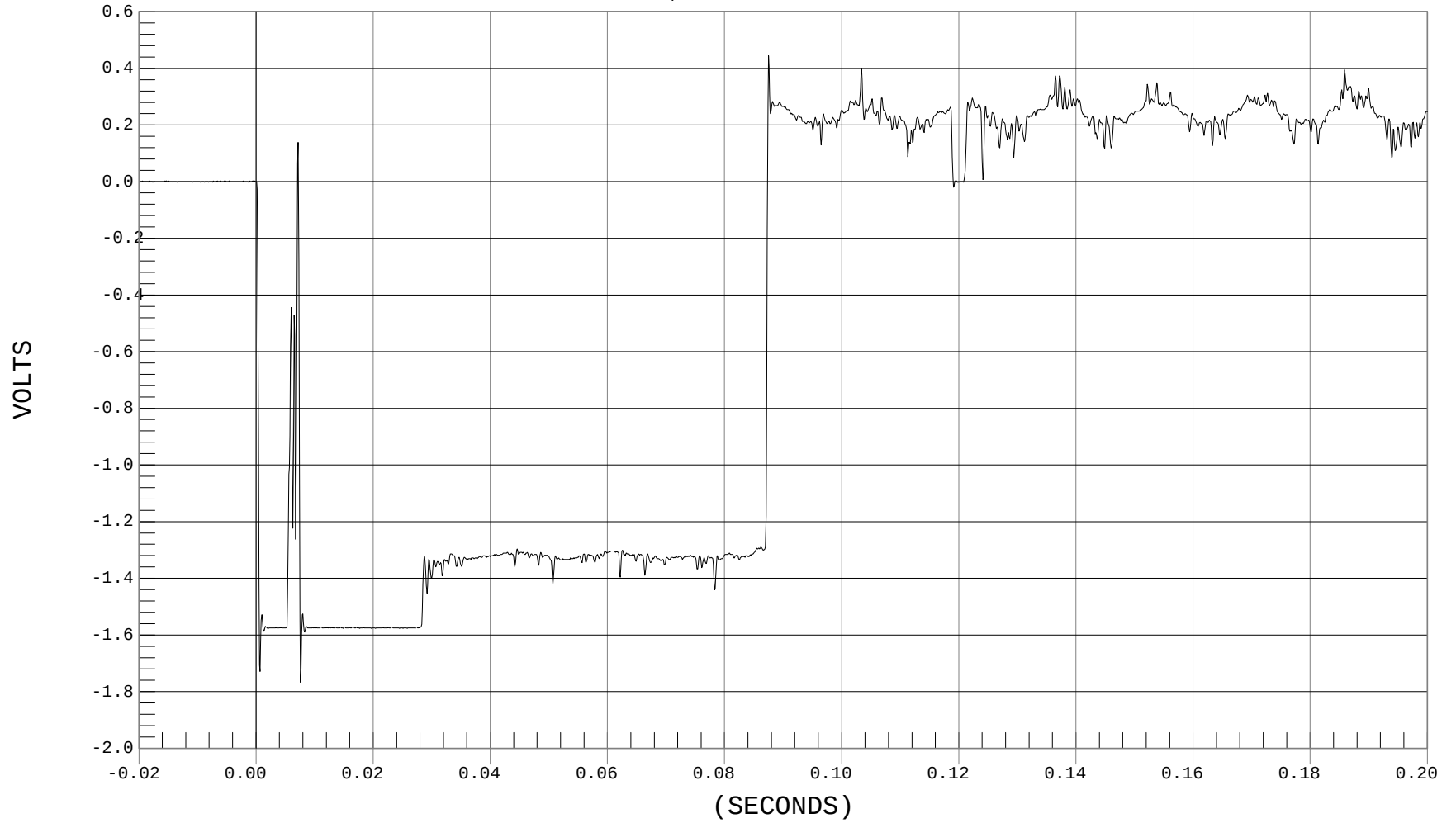
LEFT BARRIER CONTACT

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 LEFT BARRIER CONTACT, B010790T.009

Ymin = -1.77 VOLTS @ 0.0075 SECONDS, Ymax = .44 VOLTS @ 0.0874 SECONDS





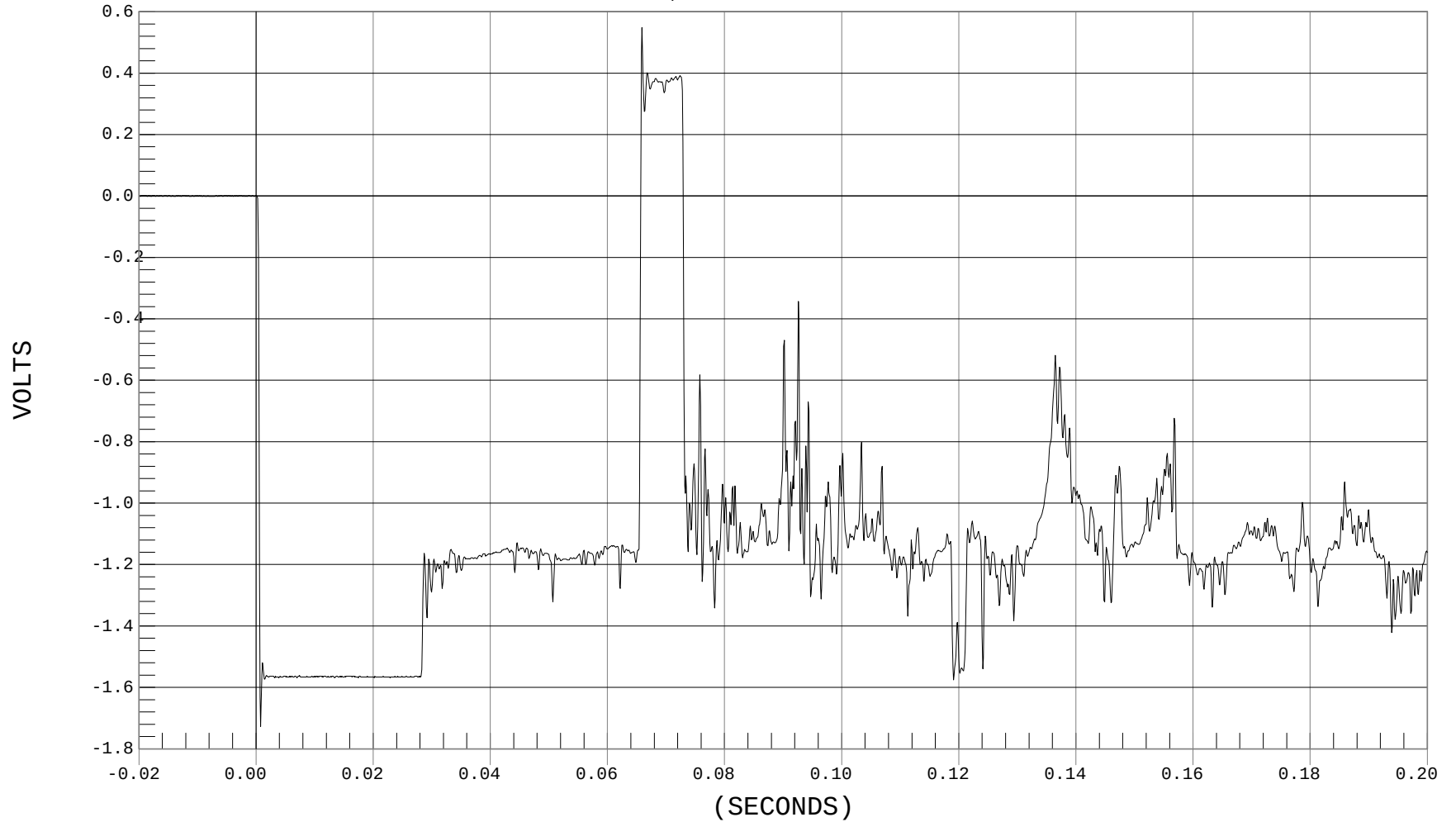
RIGHT BARRIER CONTACT

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 RIGHT BARRIER CONTACT, B010790T.010

Ymin = -1.73 VOLTS @ 0.0007 SECONDS, Ymax = .55 VOLTS @ 0.0658 SECONDS





DRIVER UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

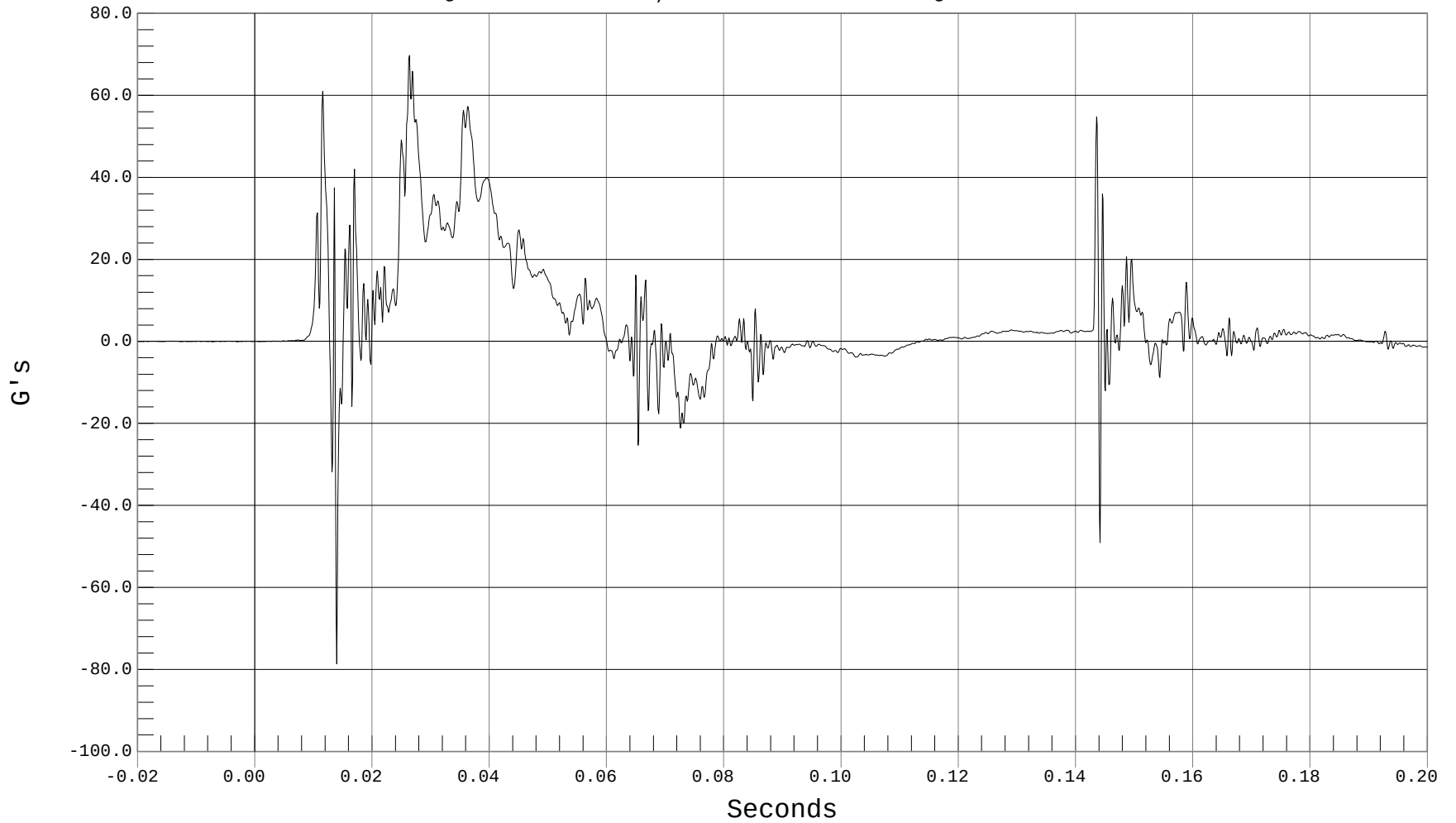
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 DRIVER UPPER RIB Yr, B01079AT.A41

Ymin = -78.65 G's @ 0.0139 Seconds, Ymax = 69.77 G's @ 0.0263 Seconds





DRIVER UPPER RIB REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

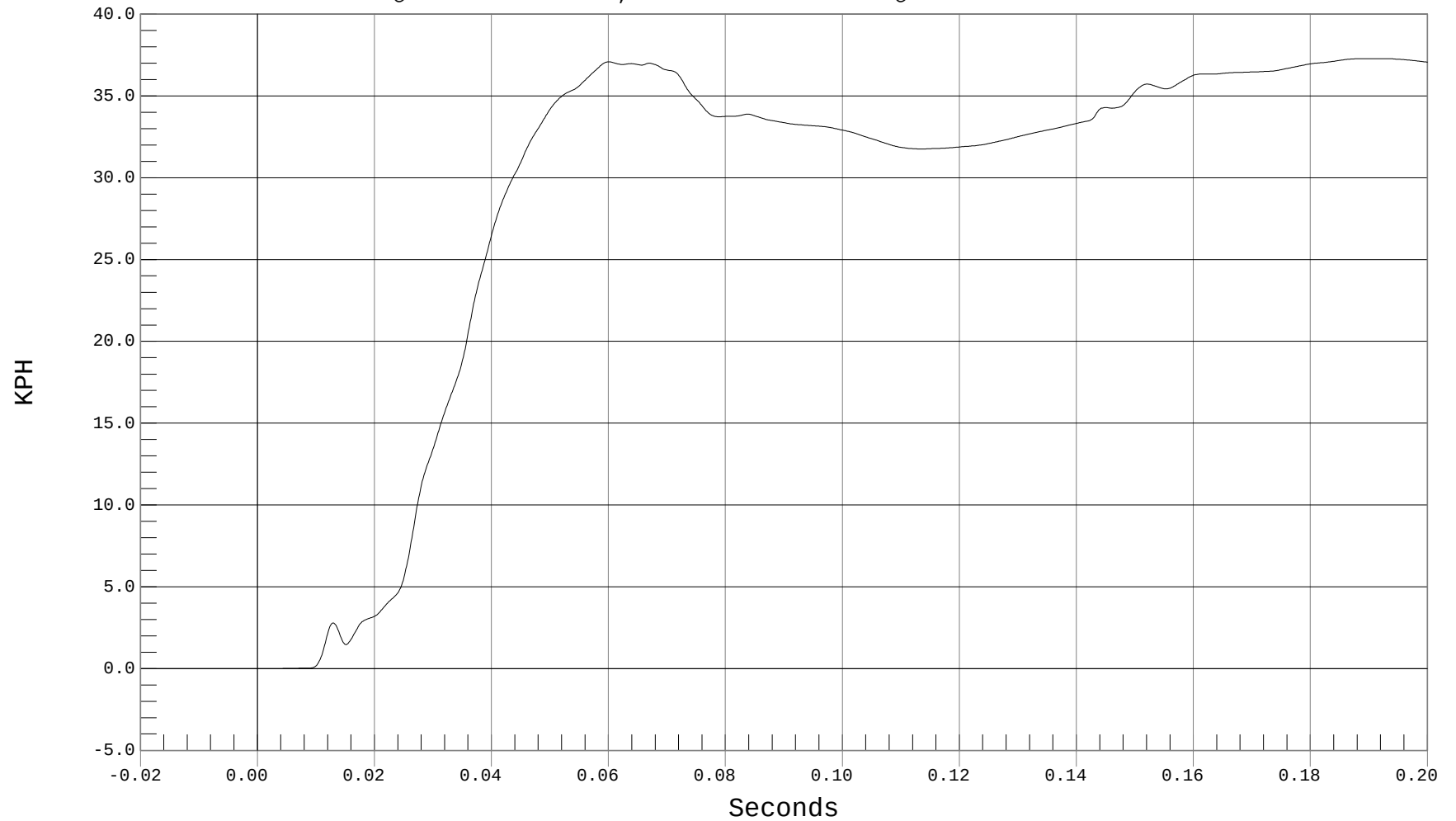
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER UPPER RIB Y REDUNDANT VELOCITY, B01079AI.V41

Ymin = 0 KPH @ -0.0189 Seconds, Ymax = 37.28 KPH @ 0.1931 Seconds





DRIVER LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

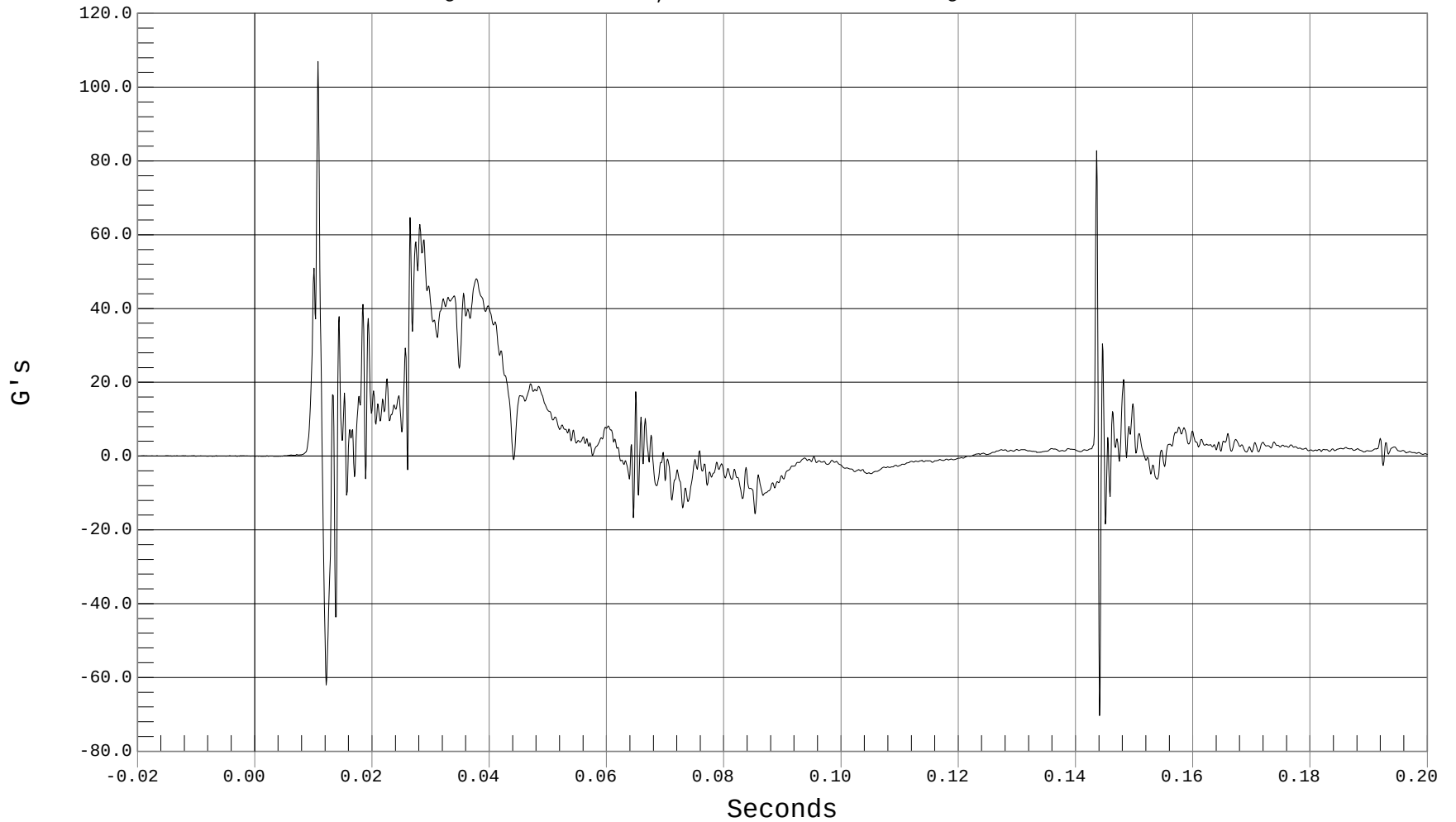
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 DRIVER LOWER RIB Yr, B01079AT.A42

Ymin = -70.31 G's @ 0.1440 Seconds, Ymax = 106.98 G's @ 0.0107 Seconds





DRIVER LOWER RIB REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

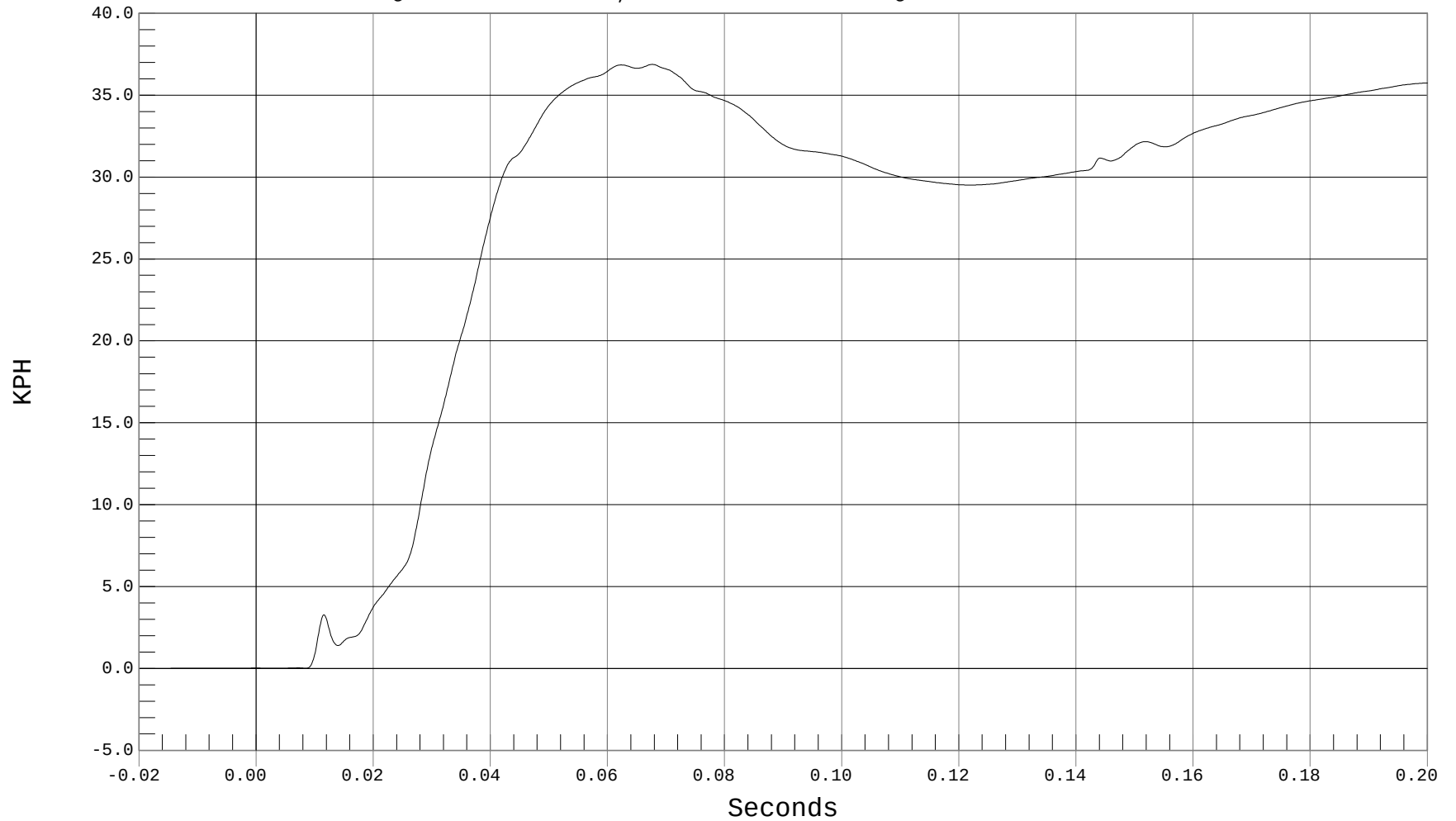
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER LOWER RIB Y REDUNDANT VELOCITY, B01079AI.V42

Ymin = 0 KPH @ -0.0199 Seconds, Ymax = 36.88 KPH @ 0.0676 Seconds





DRIVER LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

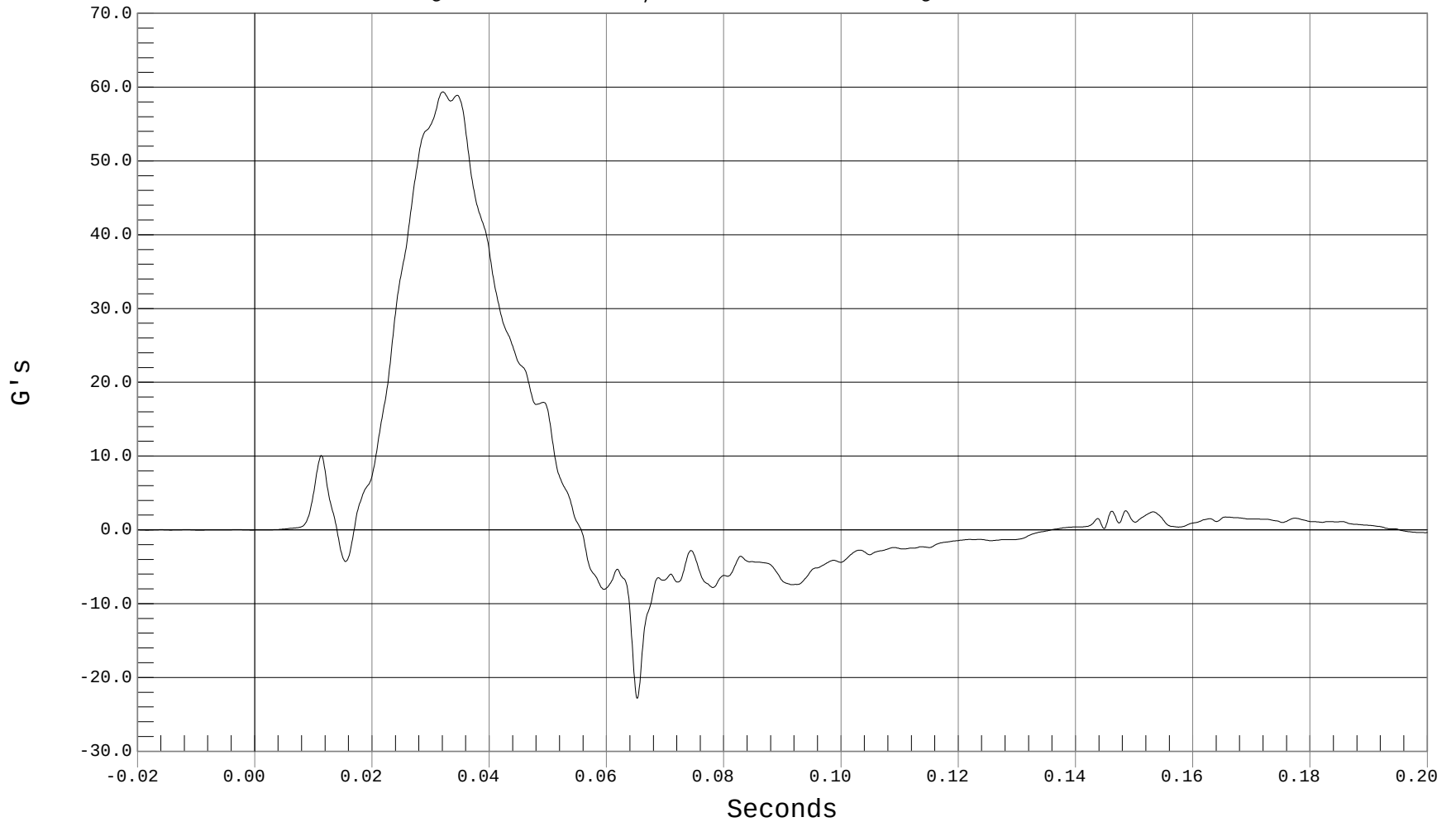
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER LOWER SPINE Yr, B01079AF.A43

Ymin = -22.8 G's @ 0.0652 Seconds, Ymax = 59.37 G's @ 0.0320 Seconds





DRIVER LOWER SPINE REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

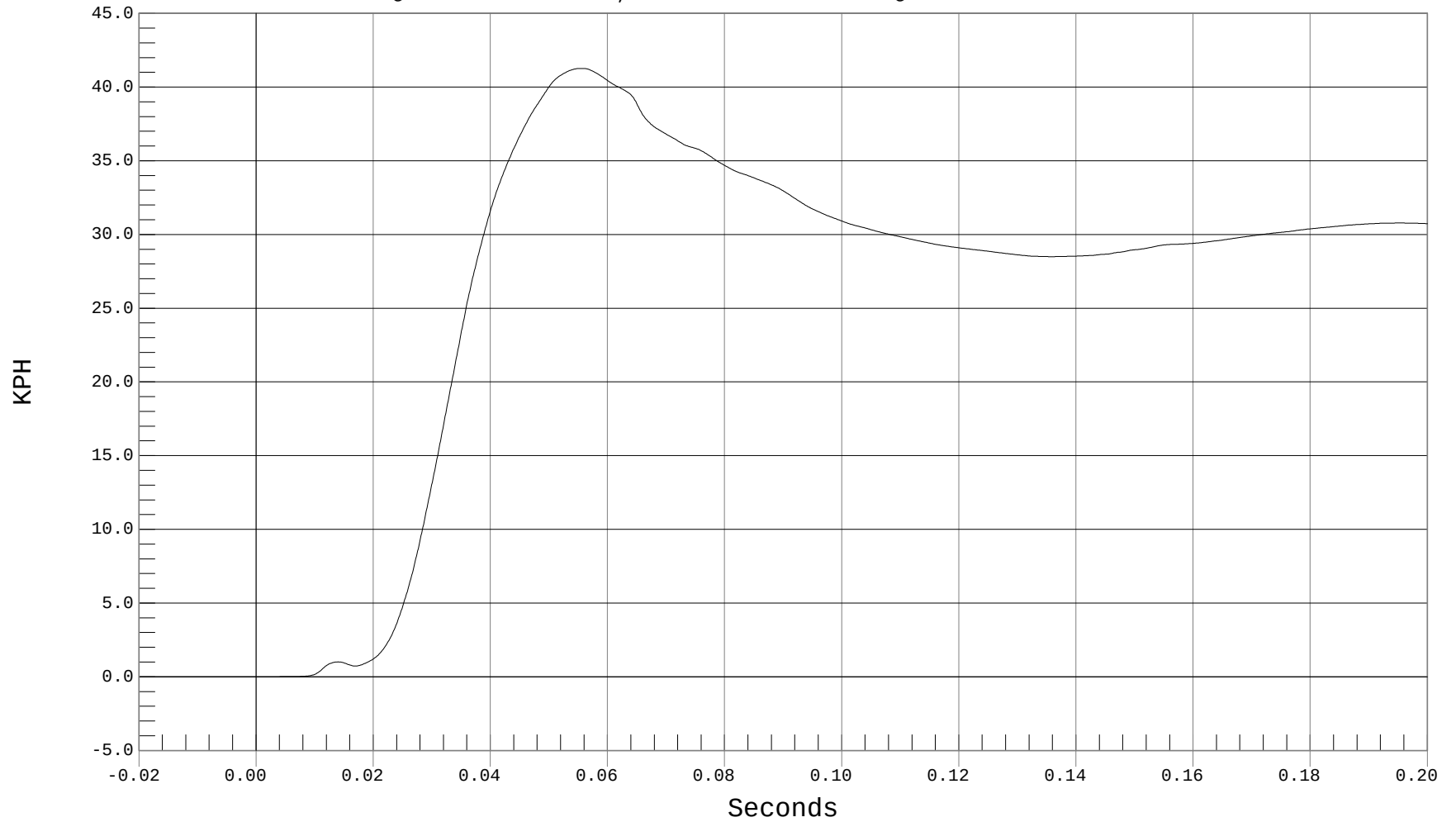
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER LOWER SPINE Y REDUNDANT VELOCITY, B01079AI.V43

Ymin = 0 KPH @ -0.0173 Seconds, Ymax = 41.27 KPH @ 0.0556 Seconds





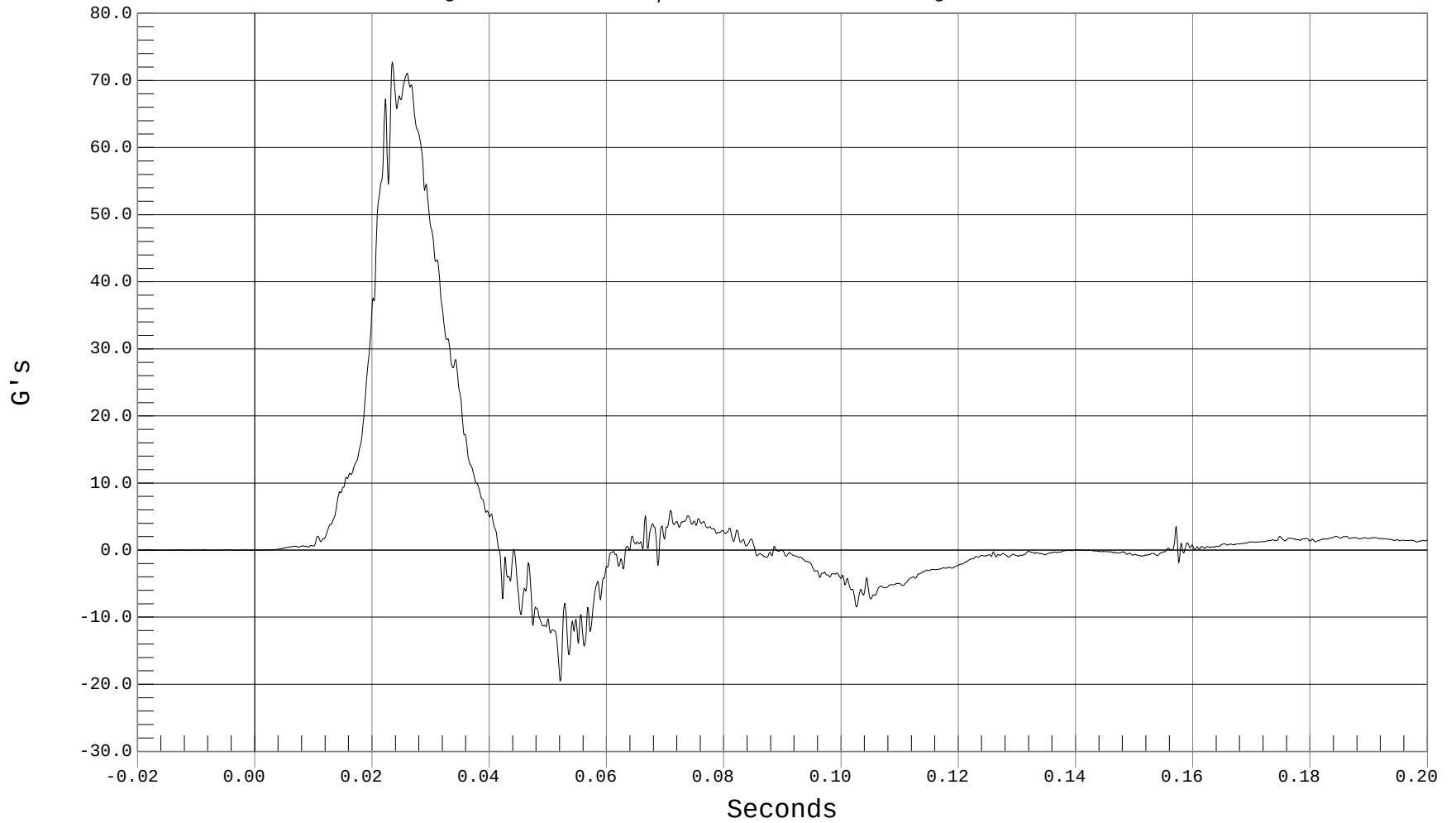
DRIVER PELVIS REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Filter Class: 1000

— 1 DRIVER PELVIS Yr, B01079AT.A44

Ymin = -19.54 G's @ 0.0520 Seconds, Ymax = 72.74 G's @ 0.0234 Seconds





DRIVER PELVIS REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

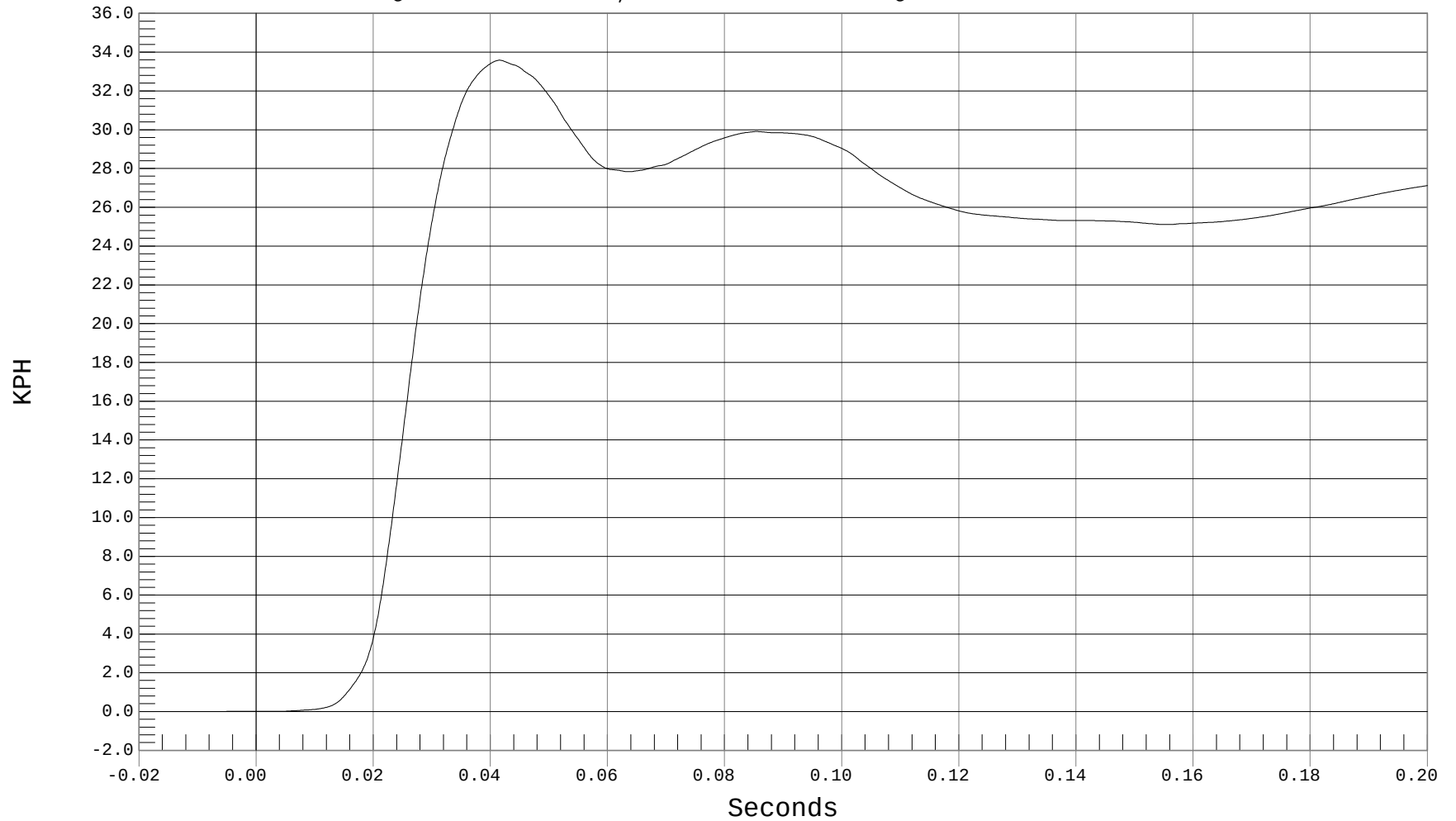
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 DRIVER PELVIS Y REDUNDANT VELOCITY, B01079AI.V44

Ymin = 0 KPH @ -0.0193 Seconds, Ymax = 33.59 KPH @ 0.0415 Seconds





REAR PASSENGER UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

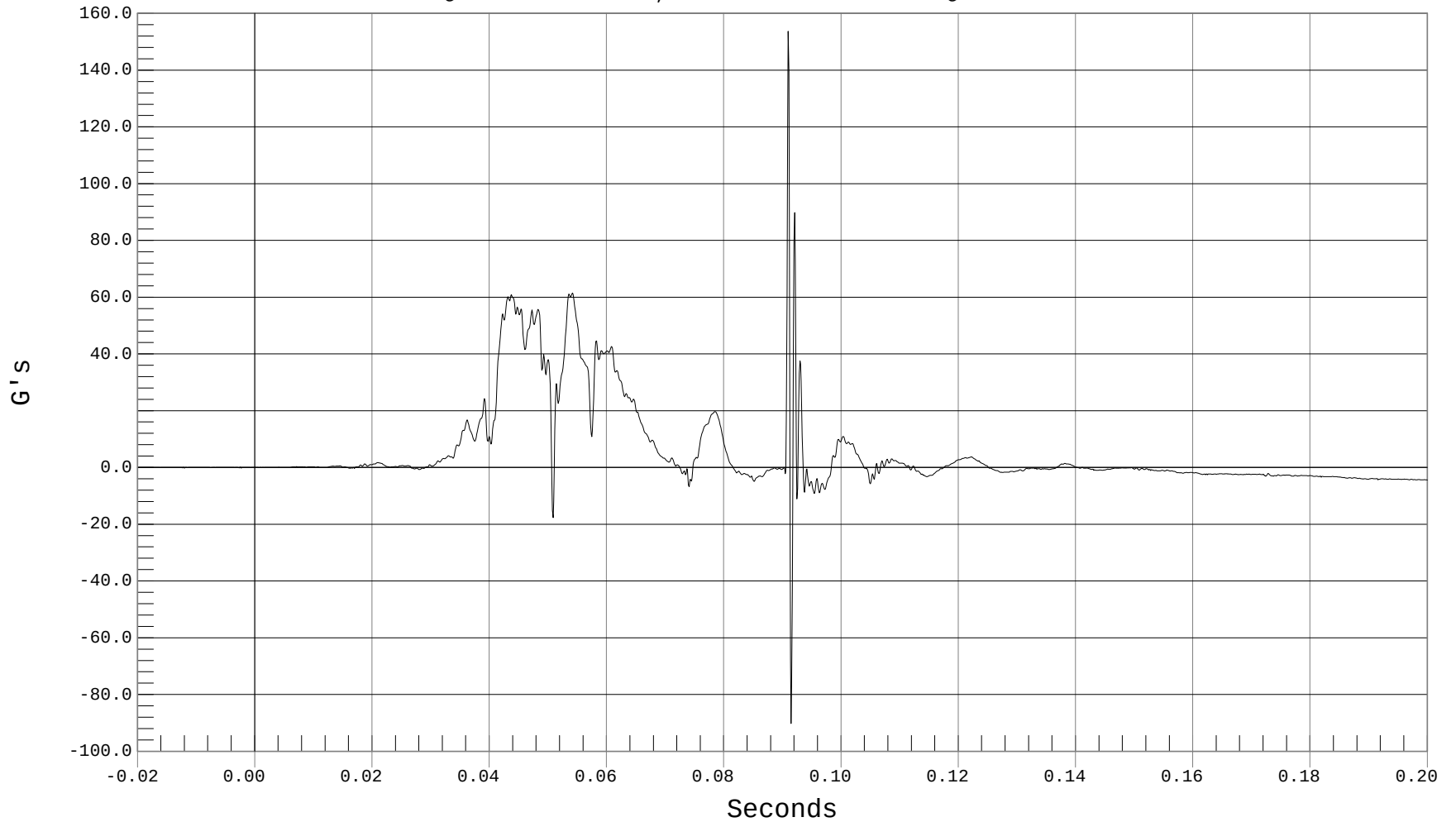
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 PASSENGER UPPER RIB Yr, B01079AT.A45

Ymin = -90.26 G's @ 0.0914 Seconds, Ymax = 153.65 G's @ 0.0909 Seconds





REAR PASSENGER UPPER RIB REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

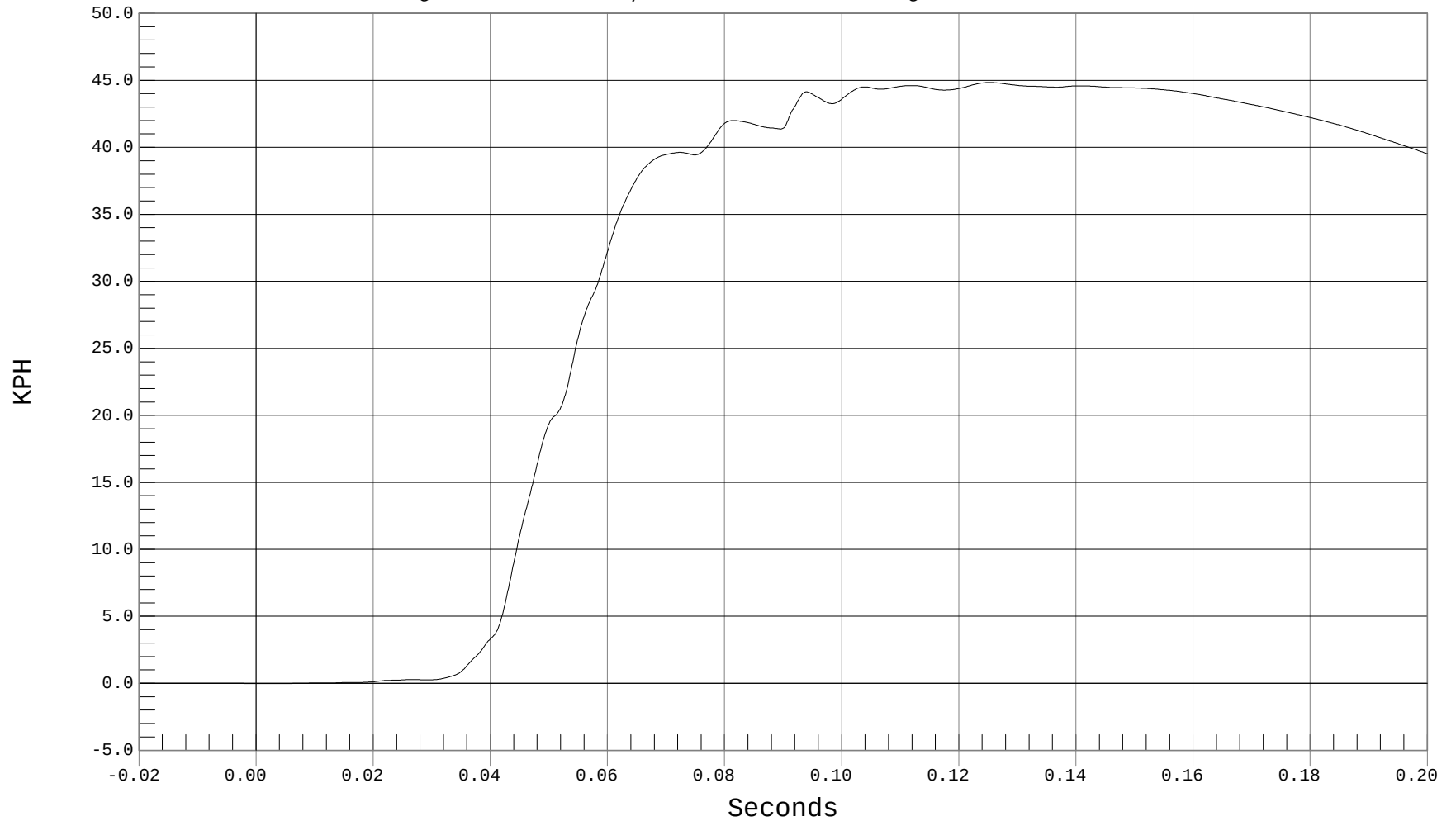
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER UPPER RIB Y REDUNDANT VELOCITY, B01079AI.V45

Ymin = -.01 KPH @ 0.0030 Seconds, Ymax = 44.84 KPH @ 0.1252 Seconds





REAR PASSENGER LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

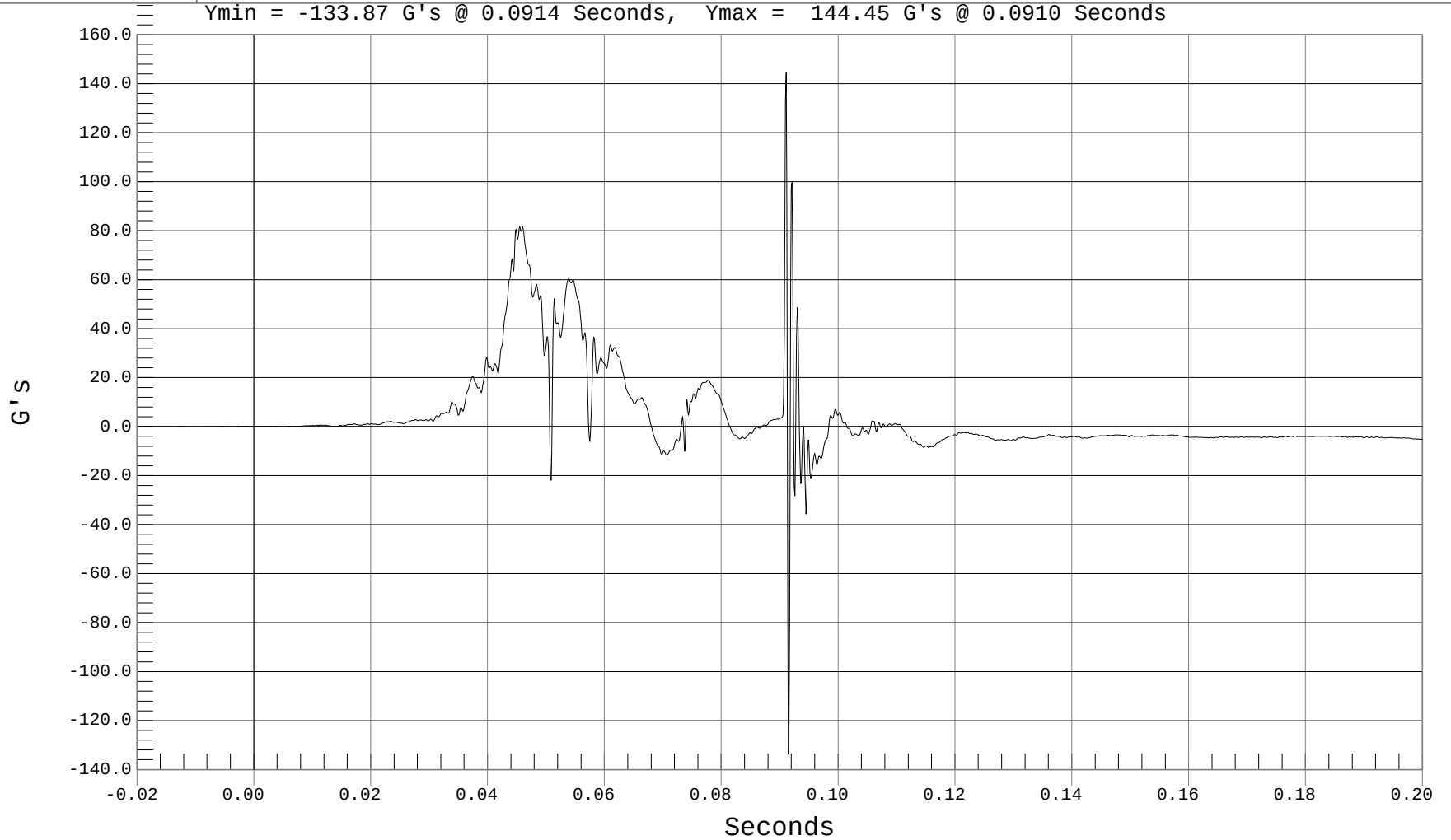
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 PASSENGER LOWER RIB Yr, B01079AT.A46

Ymin = -133.87 G's @ 0.0914 Seconds, Ymax = 144.45 G's @ 0.0910 Seconds



B-101



REAR PASSENGER LOWER RIB REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

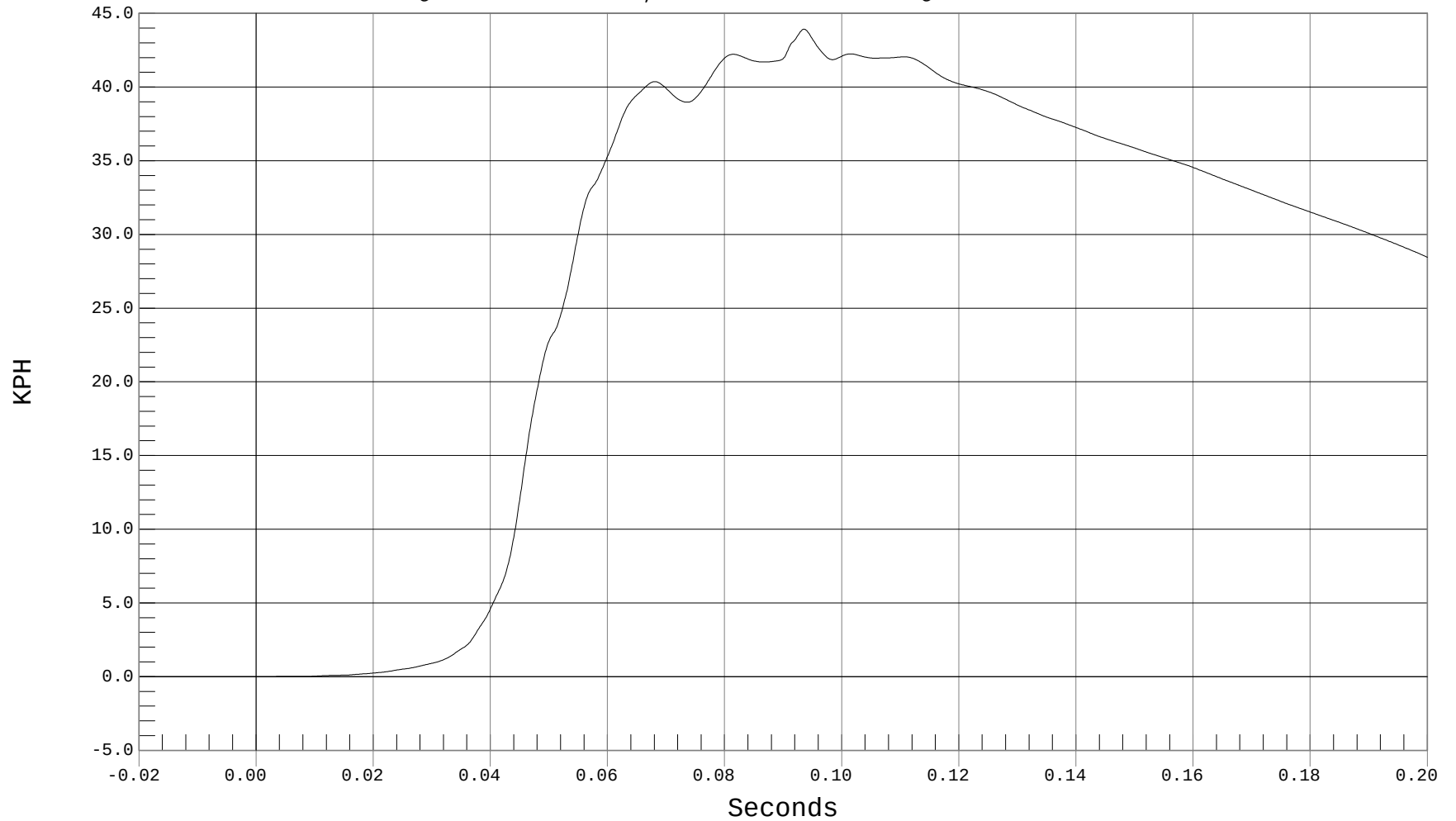
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER LOWER RIB Y REDUNDANT VELOCITY, B01079AI.V46

Ymin = -.01 KPH @ -0.0066 Seconds, Ymax = 43.93 KPH @ 0.0935 Seconds



REAR PASSENGER LOWER SPINE REDUNDANT Y ACCELERATION



t Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

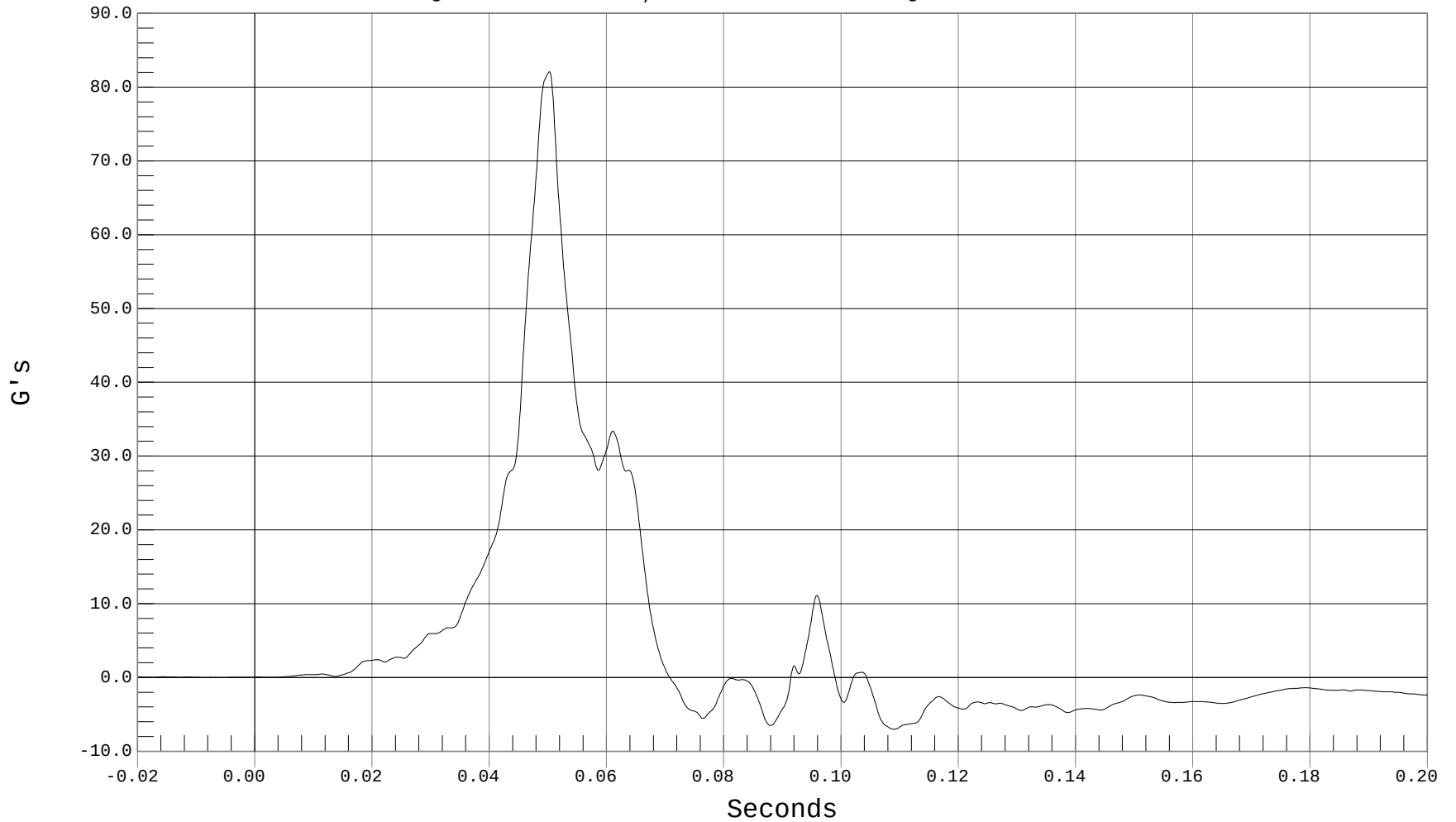
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 PASSENGER LOWER SPINE Yr, B01079AF.A47

Ymin = -7.02 G's @ 0.1089 Seconds, Ymax = 82.1 G's @ 0.0502 Seconds





REAR PASSENGER LOWER SPINE REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

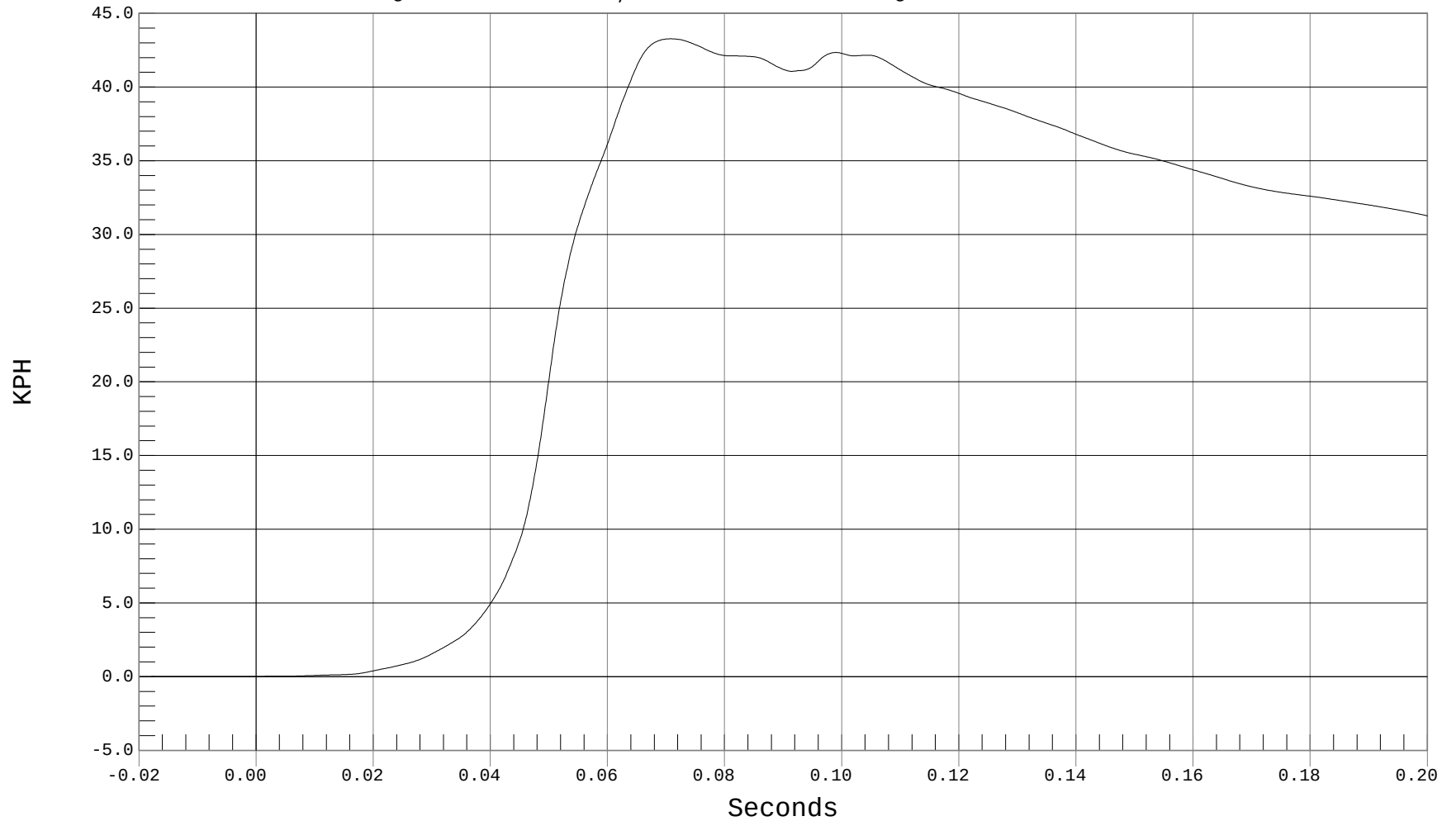
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER LOWER SPINE Y REDUNDANT VELOCITY, B01079AI.V47

Ymin = 0 KPH @ -0.0199 Seconds, Ymax = 43.27 KPH @ 0.0707 Seconds





REAR PASSENGER PELVIS REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

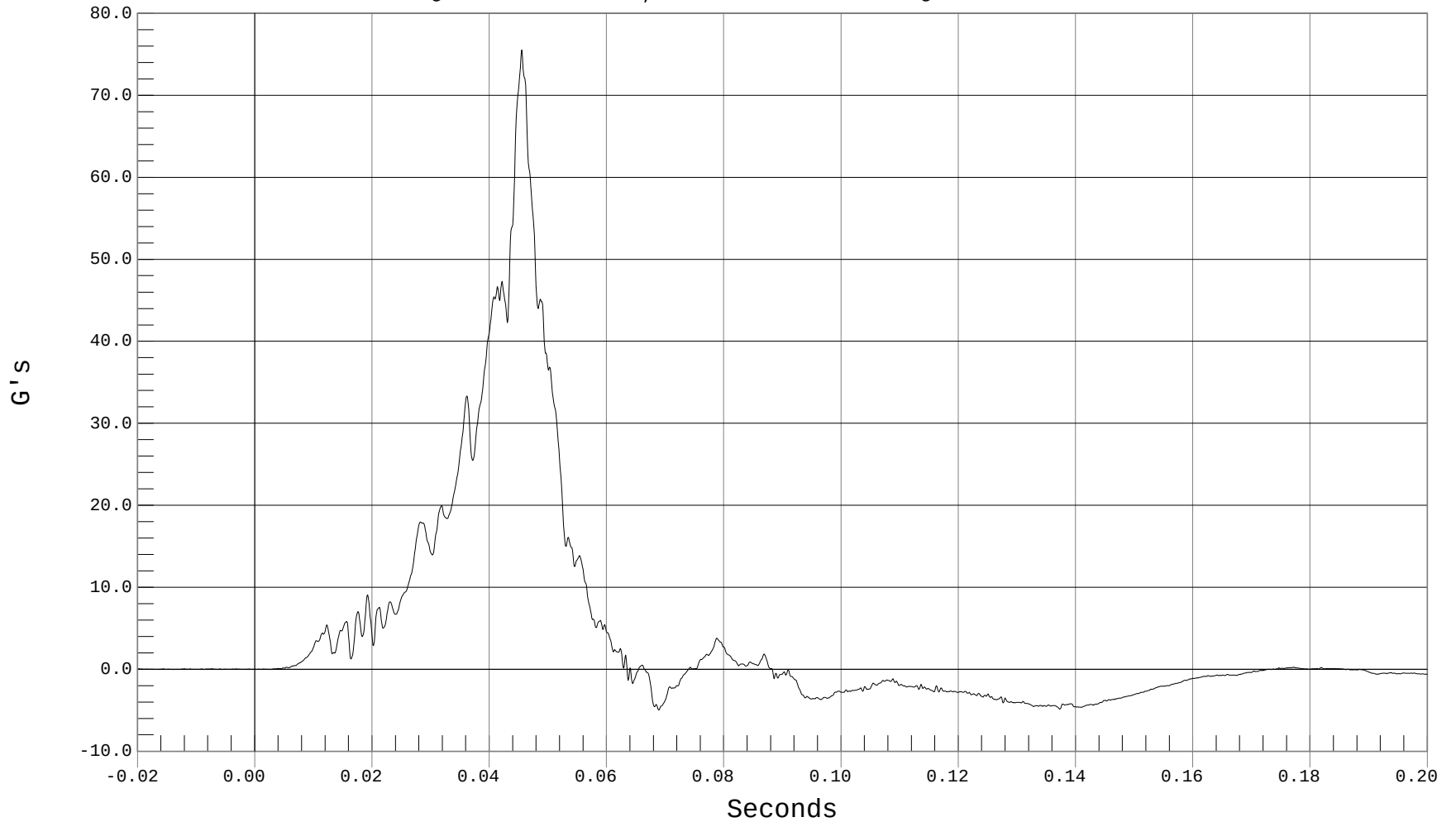
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 1000

— 1 PASSENGER PELVIS Yr, B01079AT.A48

Ymin = -4.98 G's @ 0.0688 Seconds, Ymax = 75.51 G's @ 0.0455 Seconds





REAR PASSENGER PELVIS REDUNDANT Y VELOCITY

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

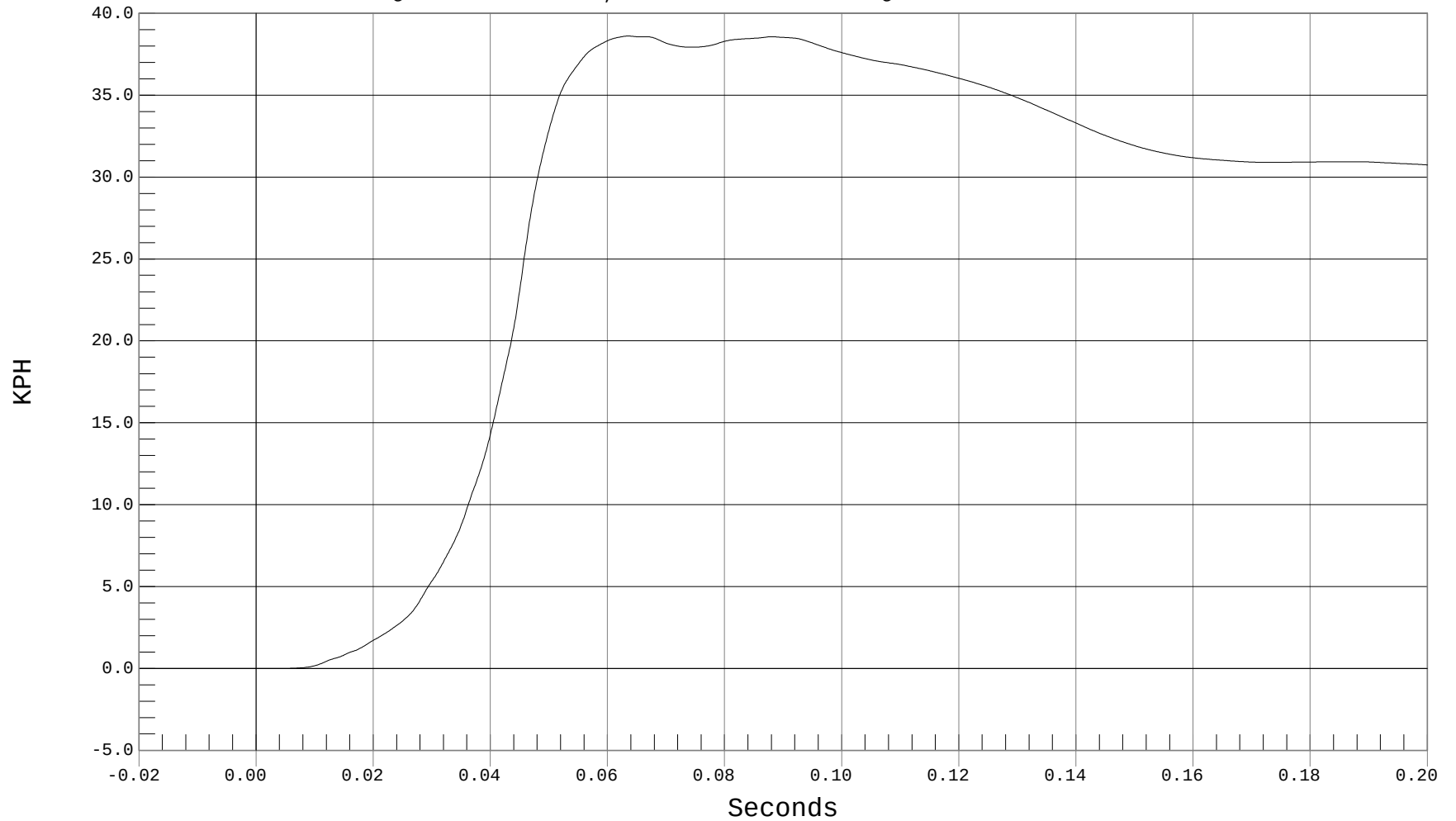
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Filter Class: 180

— 1 REAR PASSENGER PELVIS Y REDUNDANT VELOCITY, B01079AI.V48

Ymin = 0 KPH @ 0.0027 Seconds, Ymax = 38.61 KPH @ 0.0635 Seconds





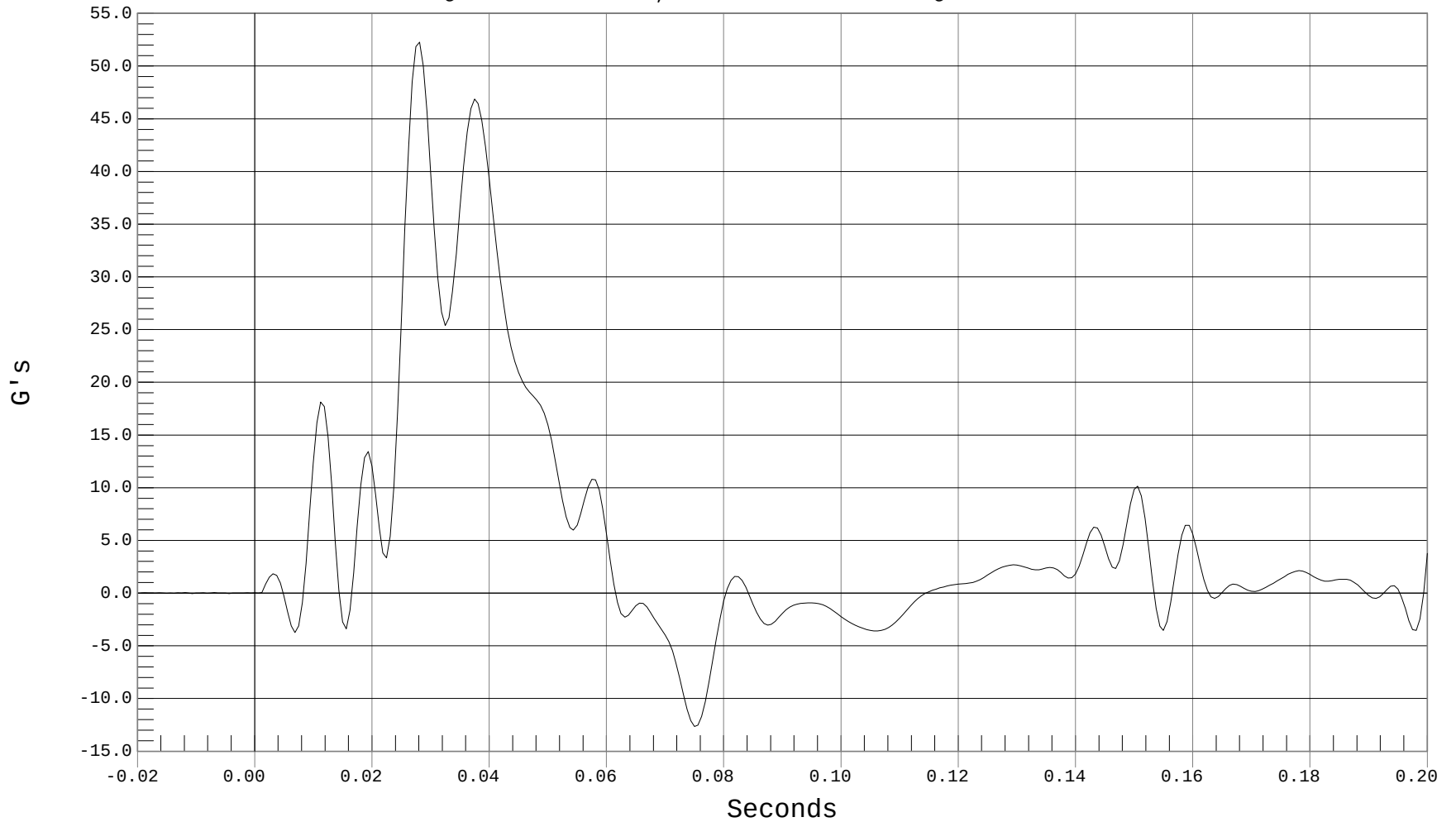
DRIVER UPPER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER UPPER RIB Y, B01079FI.R04

Ymin = -12.65 G's @ 0.0749 Seconds, Ymax = 52.27 G's @ 0.0280 Seconds





DRIVER UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

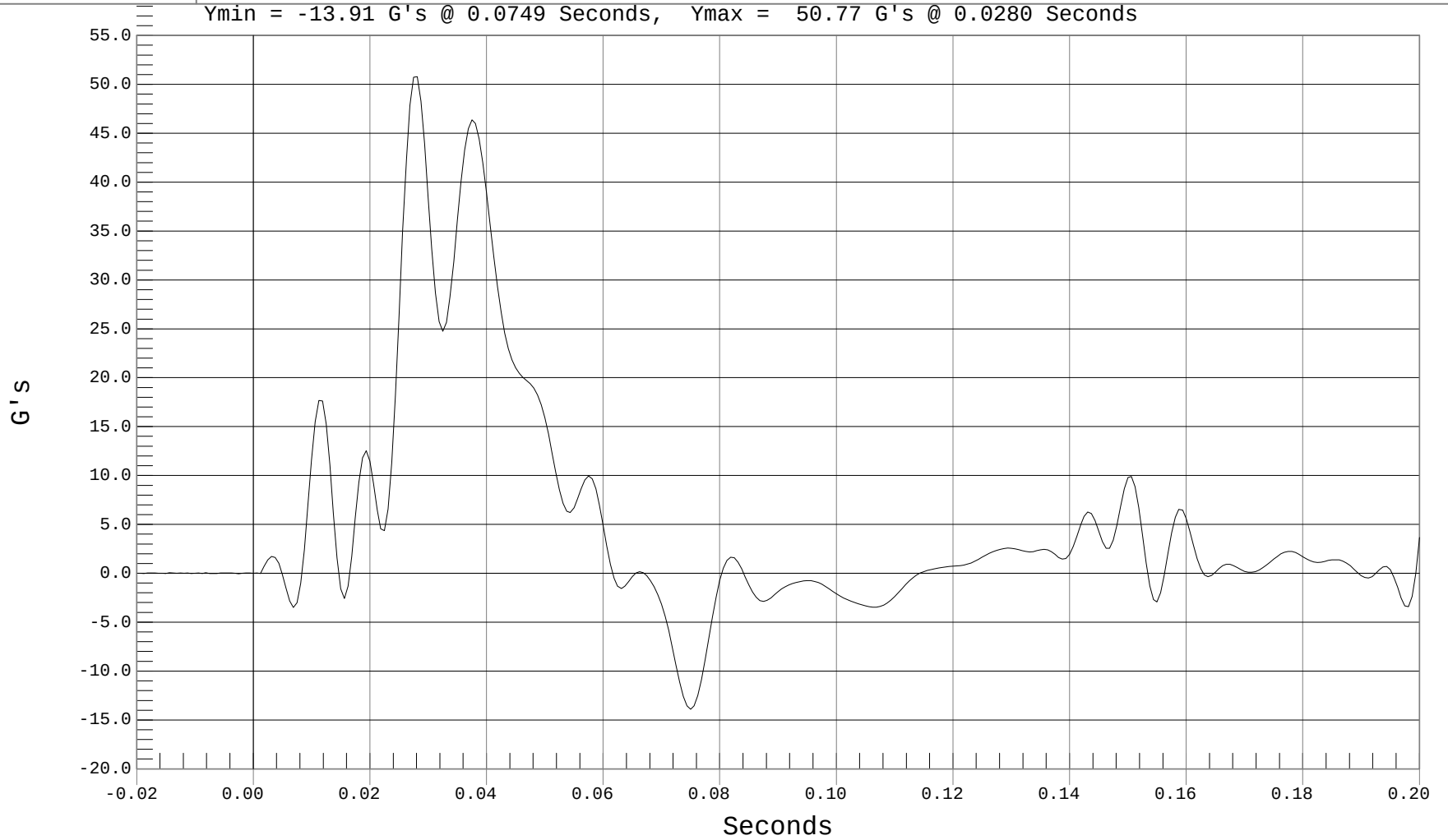
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 DRIVER UPPER RIB Yr, B01079FI.R41

Ymin = -13.91 G's @ 0.0749 Seconds, Ymax = 50.77 G's @ 0.0280 Seconds





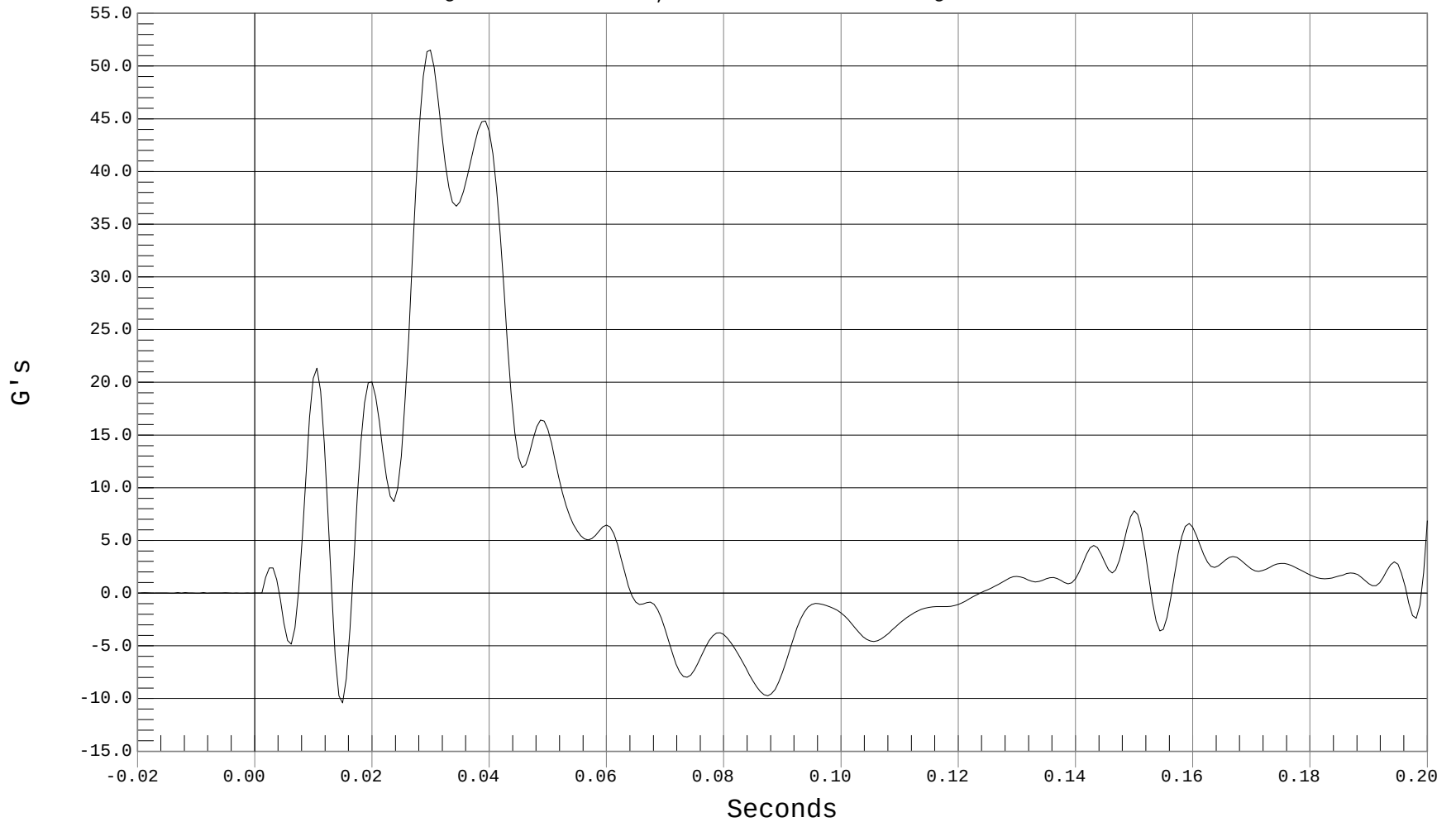
DRIVER LOWER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER LOWER RIB Y, B01079FI.R05

Ymin = -10.43 G's @ 0.0149 Seconds, Ymax = 51.53 G's @ 0.0299 Seconds





DRIVER LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

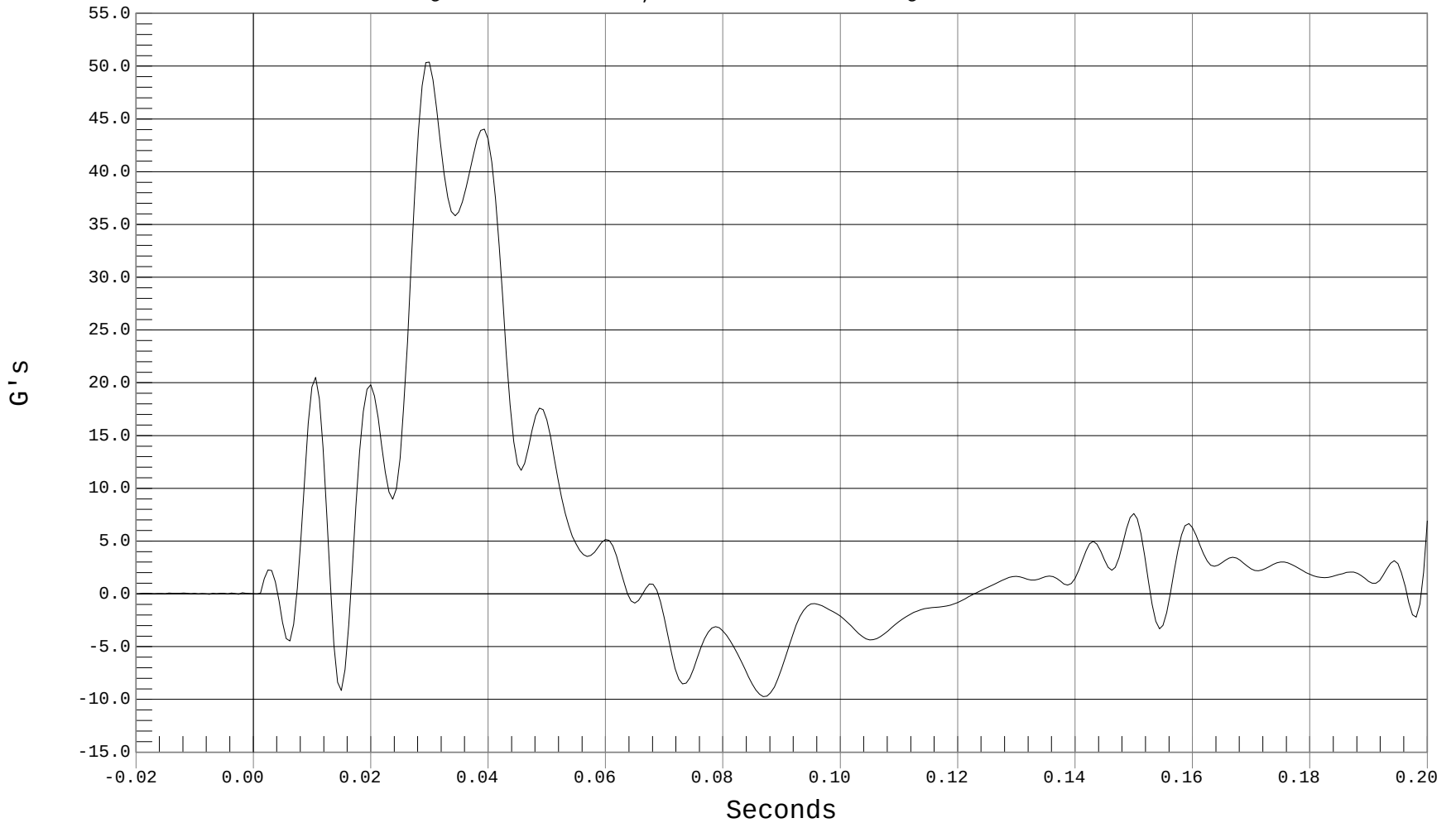
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 DRIVER LOWER RIB Yr, B01079FI.R42

Ymin = -9.73 G's @ 0.0868 Seconds, Ymax = 50.4 G's @ 0.0299 Seconds





DRIVER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

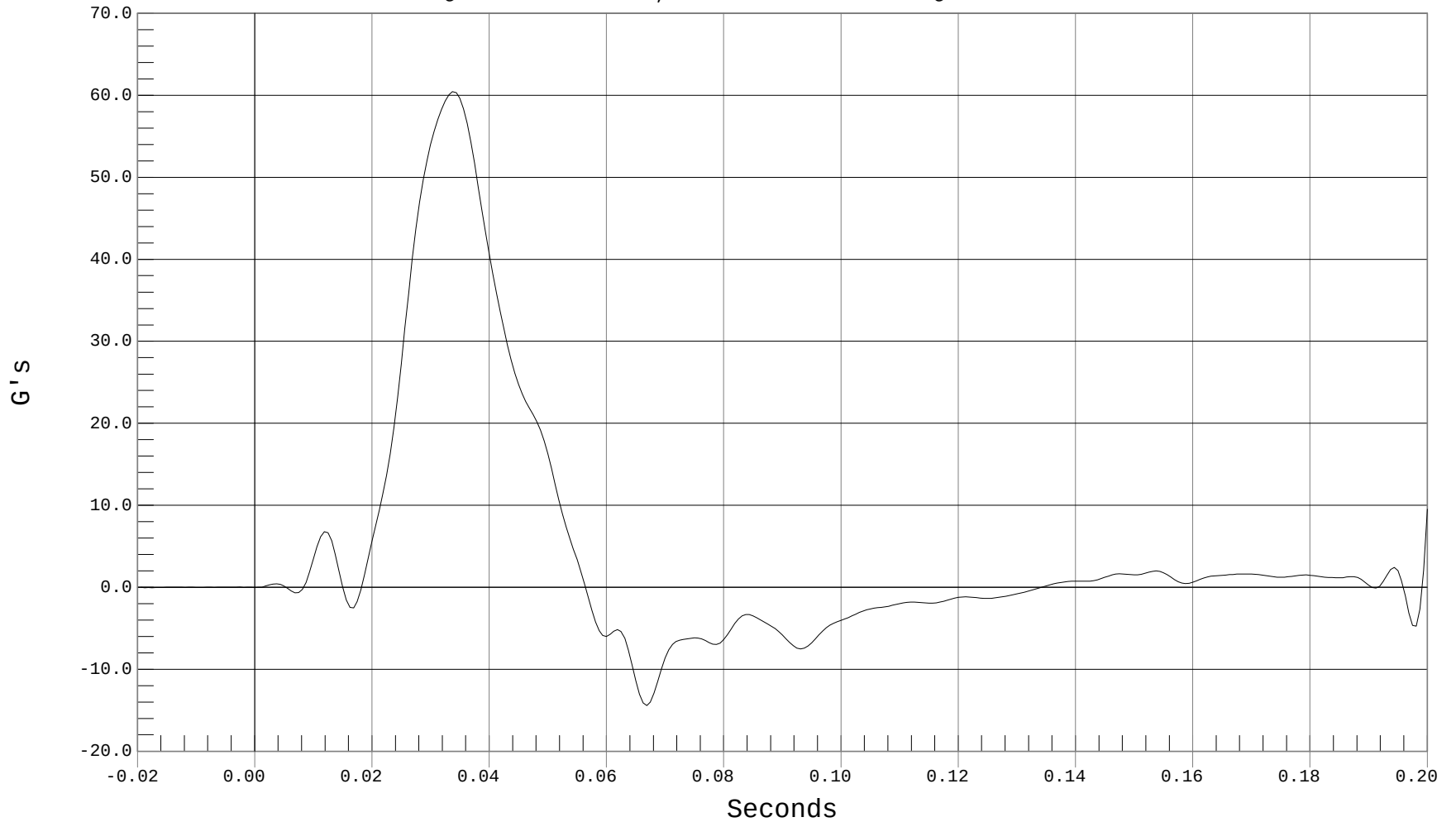
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 DRIVER LOWER SPINE Y, B01079FI.R06

Ymin = -14.44 G's @ 0.0668 Seconds, Ymax = 60.44 G's @ 0.0337 Seconds





DRIVER LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

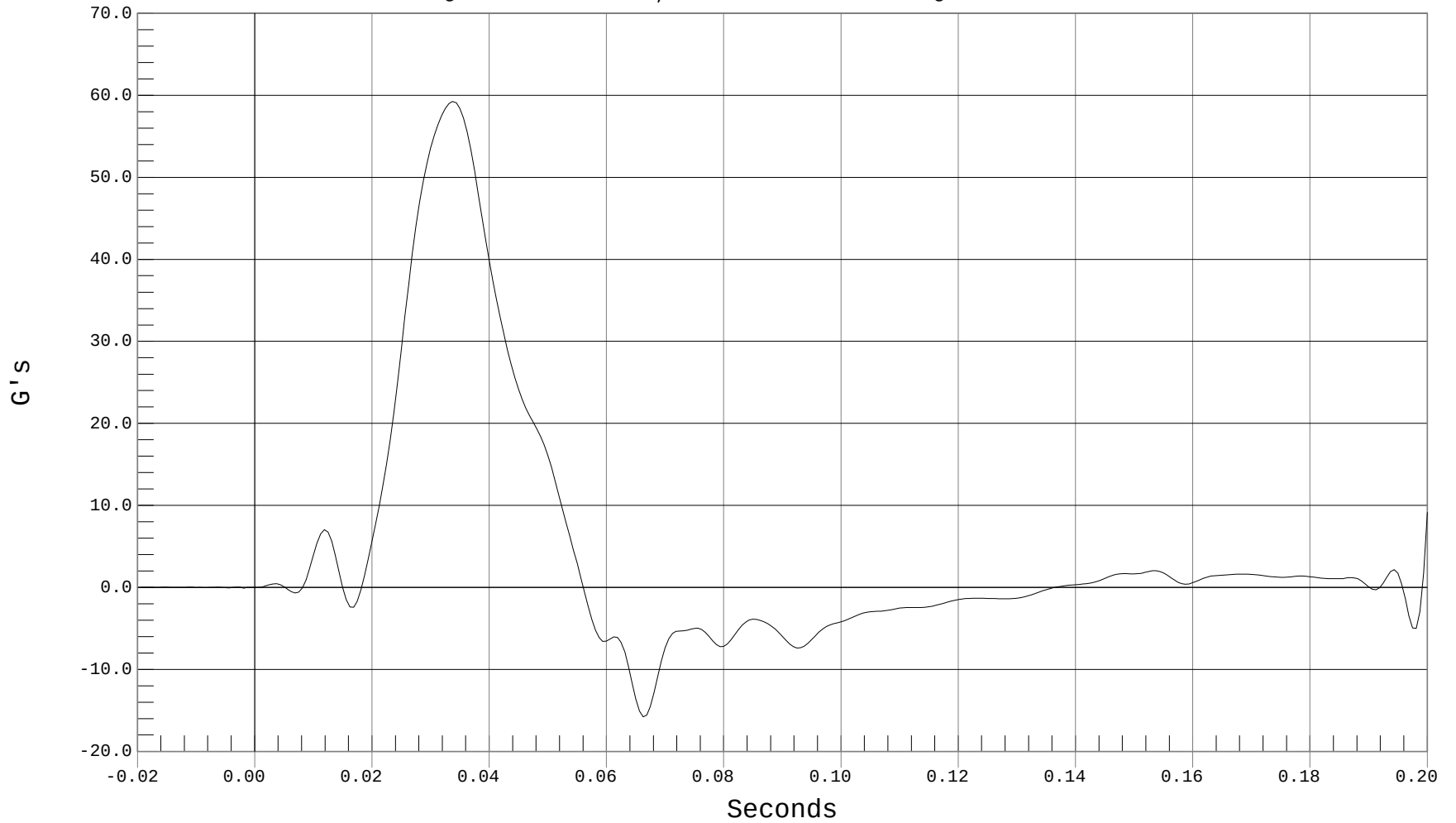
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 DRIVER LOWER SPINE Yr, B01079FI.R43

Ymin = -15.78 G's @ 0.0662 Seconds, Ymax = 59.26 G's @ 0.0337 Seconds





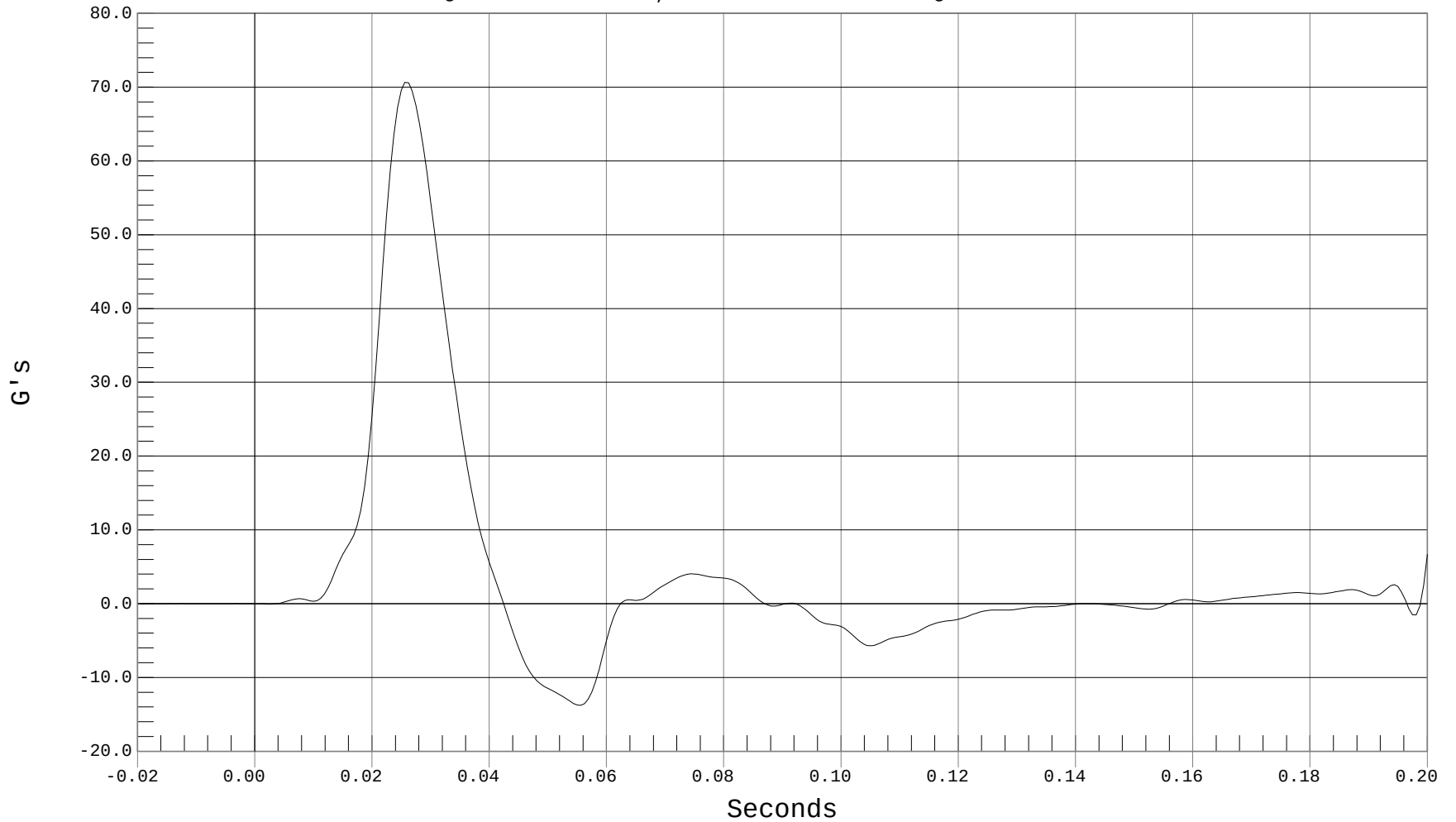
DRIVER PELVIS Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER PELVIS Y, B01079FI.R07

Ymin = -13.78 G's @ 0.0555 Seconds, Ymax = 70.66 G's @ 0.0255 Seconds





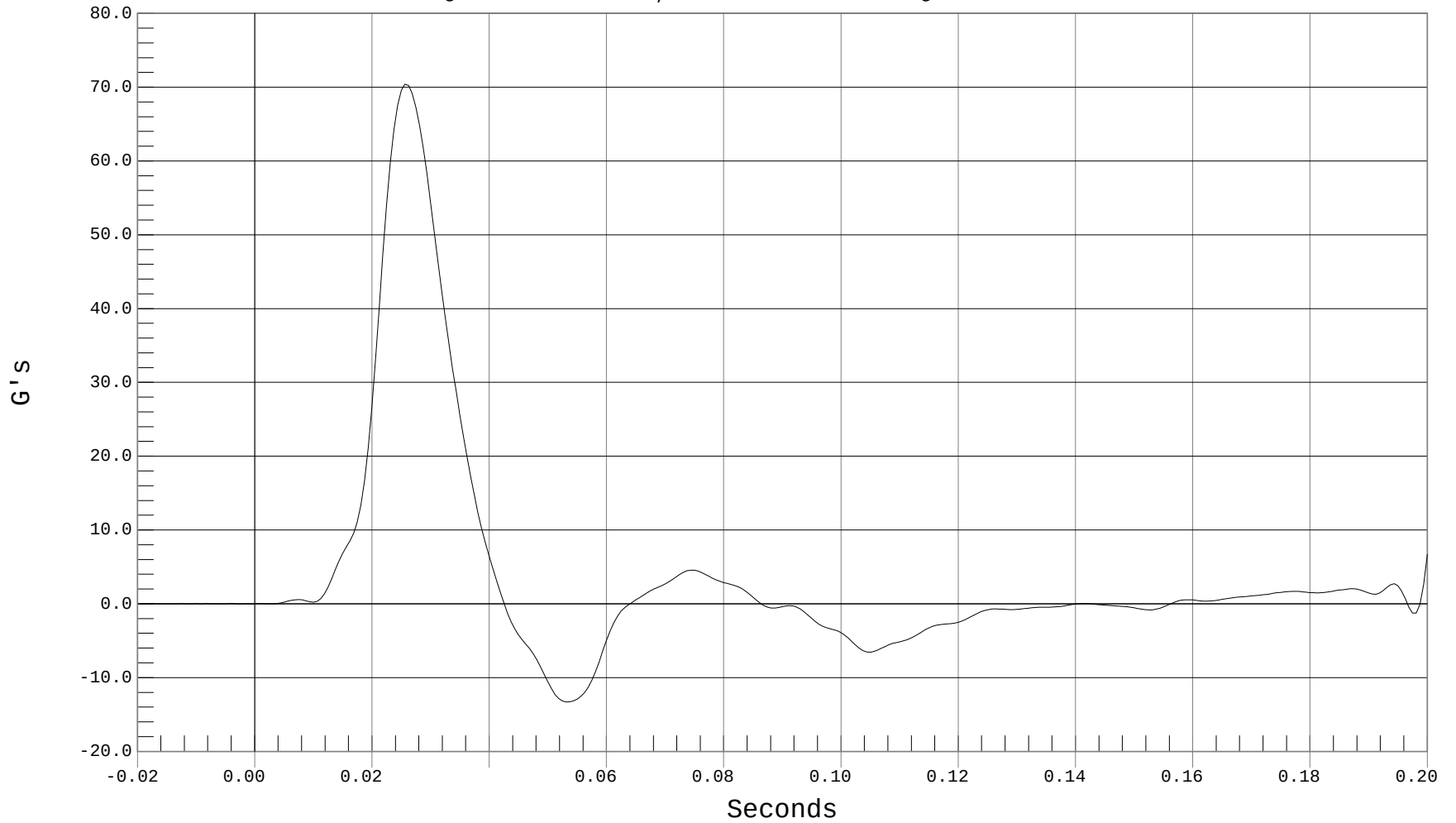
DRIVER PELVIS REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT
Component: 2001 MITSUBISHI ECLIPSE GT
Other Info:

Test Date: 07-19-01
Speed: 38.6 MPH, 62.1 KPH
Fir Filtered

— 1 DRIVER PELVIS Yr, B01079FI.R44

Ymin = -13.31 G's @ 0.0530 Seconds, Ymax = 70.4 G's @ 0.0255 Seconds





REAR PASSENGER UPPER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

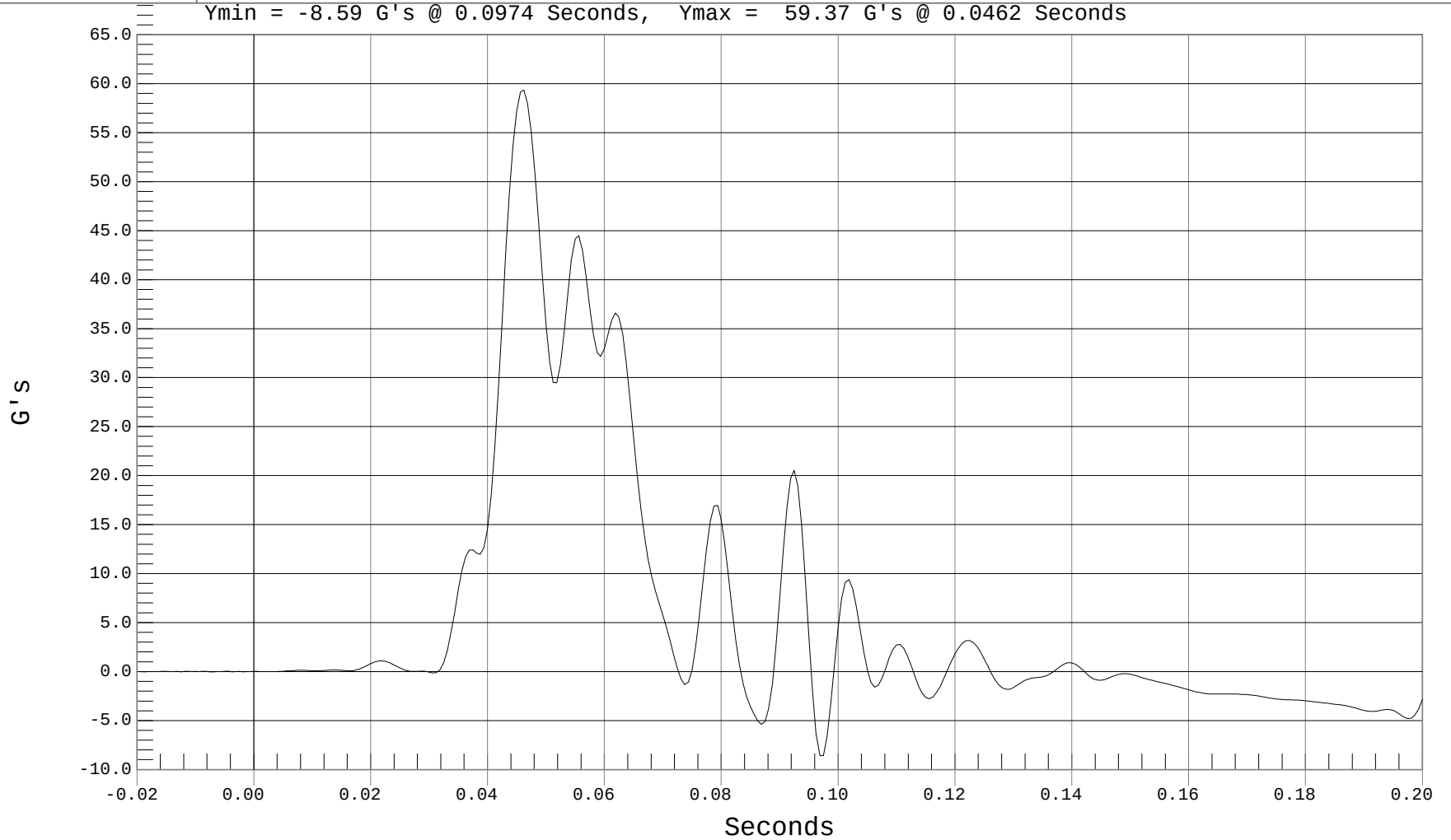
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER UPPER RIB Y, B01079FI.R11

Ymin = -8.59 G's @ 0.0974 Seconds, Ymax = 59.37 G's @ 0.0462 Seconds





REAR PASSENGER UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

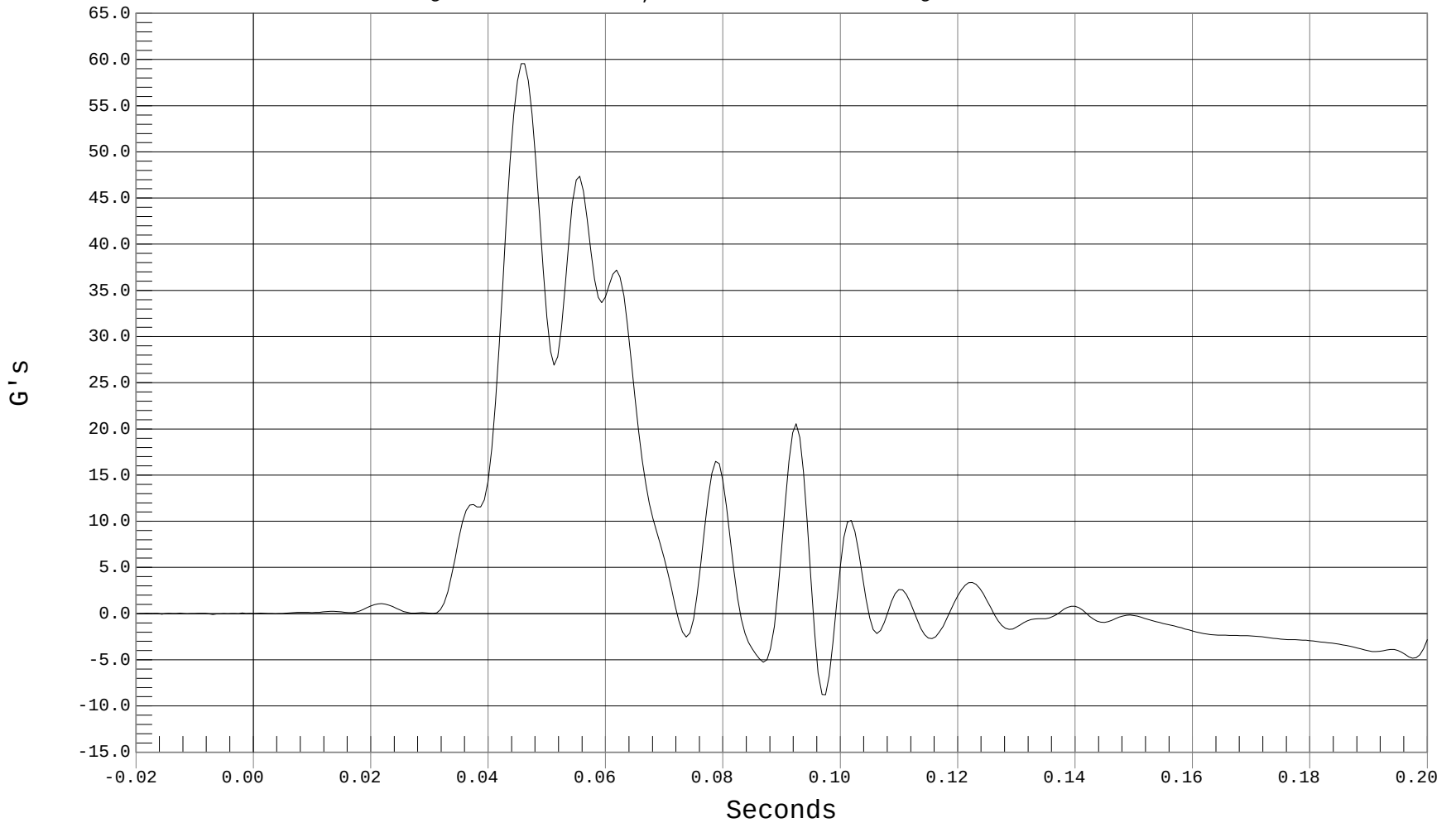
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER UPPER RIB Yr, B01079FI.R45

Ymin = -8.79 G's @ 0.0974 Seconds, Ymax = 59.56 G's @ 0.0455 Seconds





REAR PASSENGER LOWER RIB Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

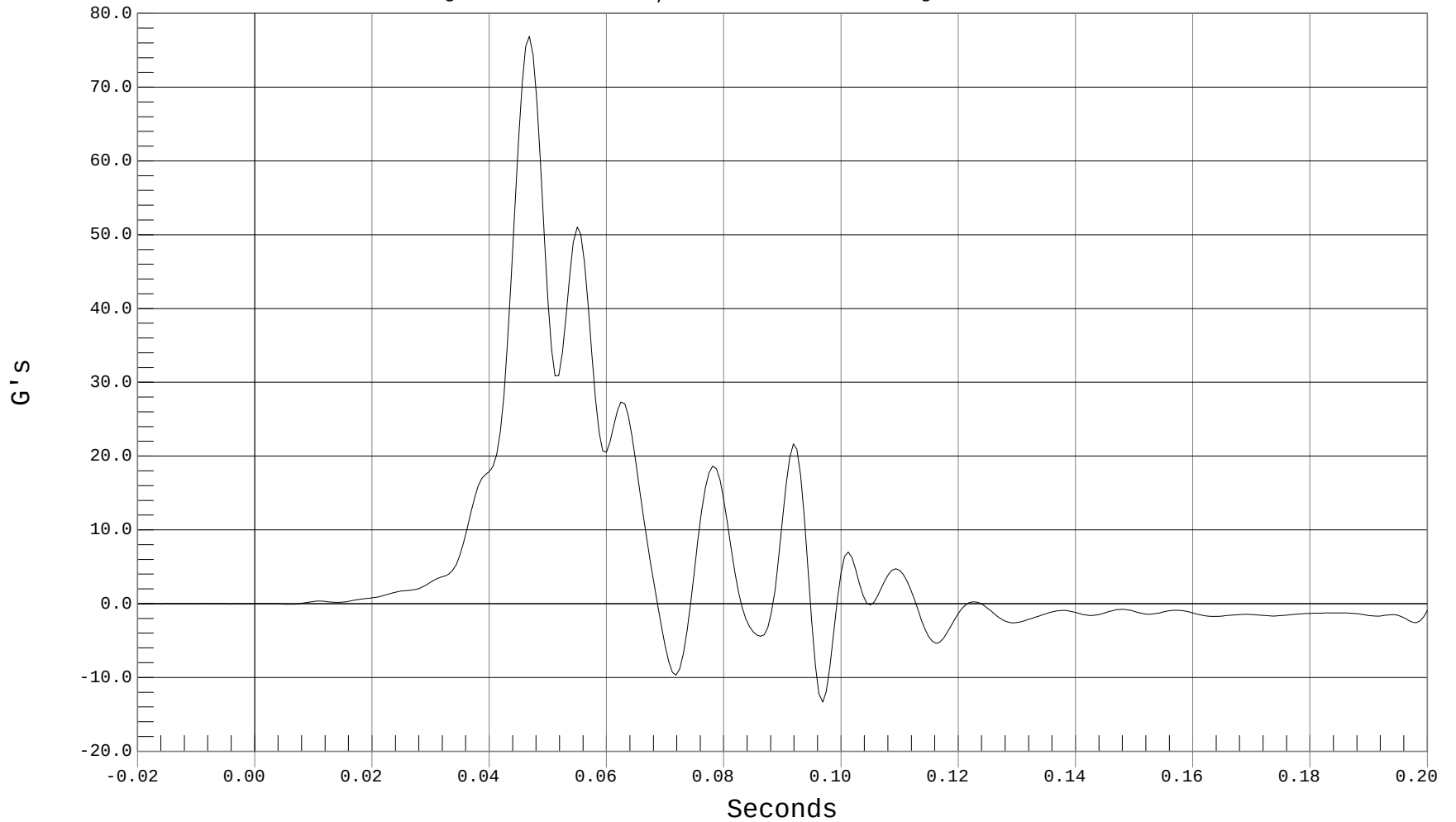
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER LOWER RIB Y, B01079FI.R12

Ymin = -13.35 G's @ 0.0968 Seconds, Ymax = 76.9 G's @ 0.0468 Seconds





REAR PASSENGER LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

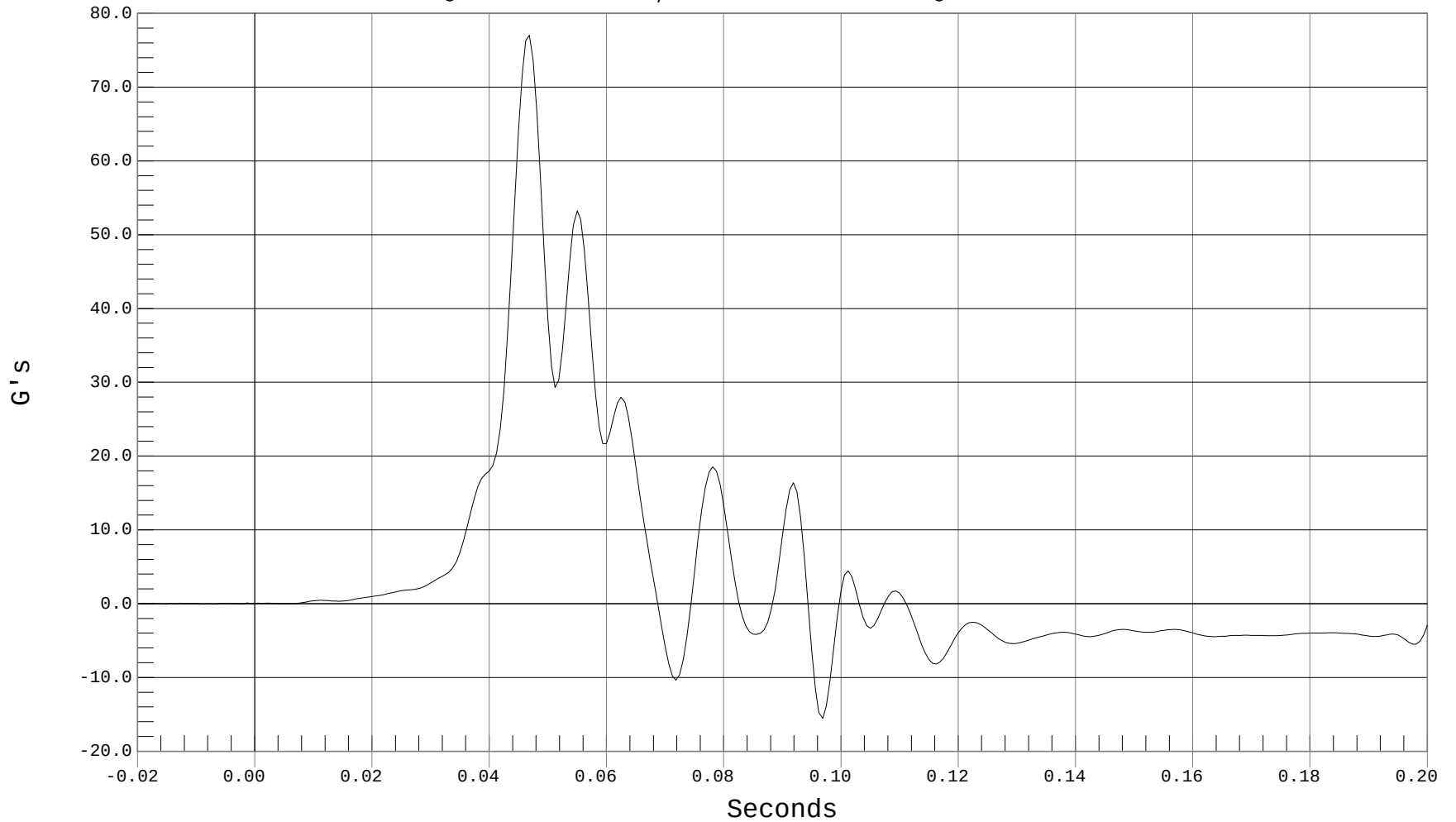
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER LOWER RIB Yr, B01079FI.R46

Ymin = -15.54 G's @ 0.0968 Seconds, Ymax = 77.04 G's @ 0.0468 Seconds





REAR PASSENGER LOWER SPINE Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

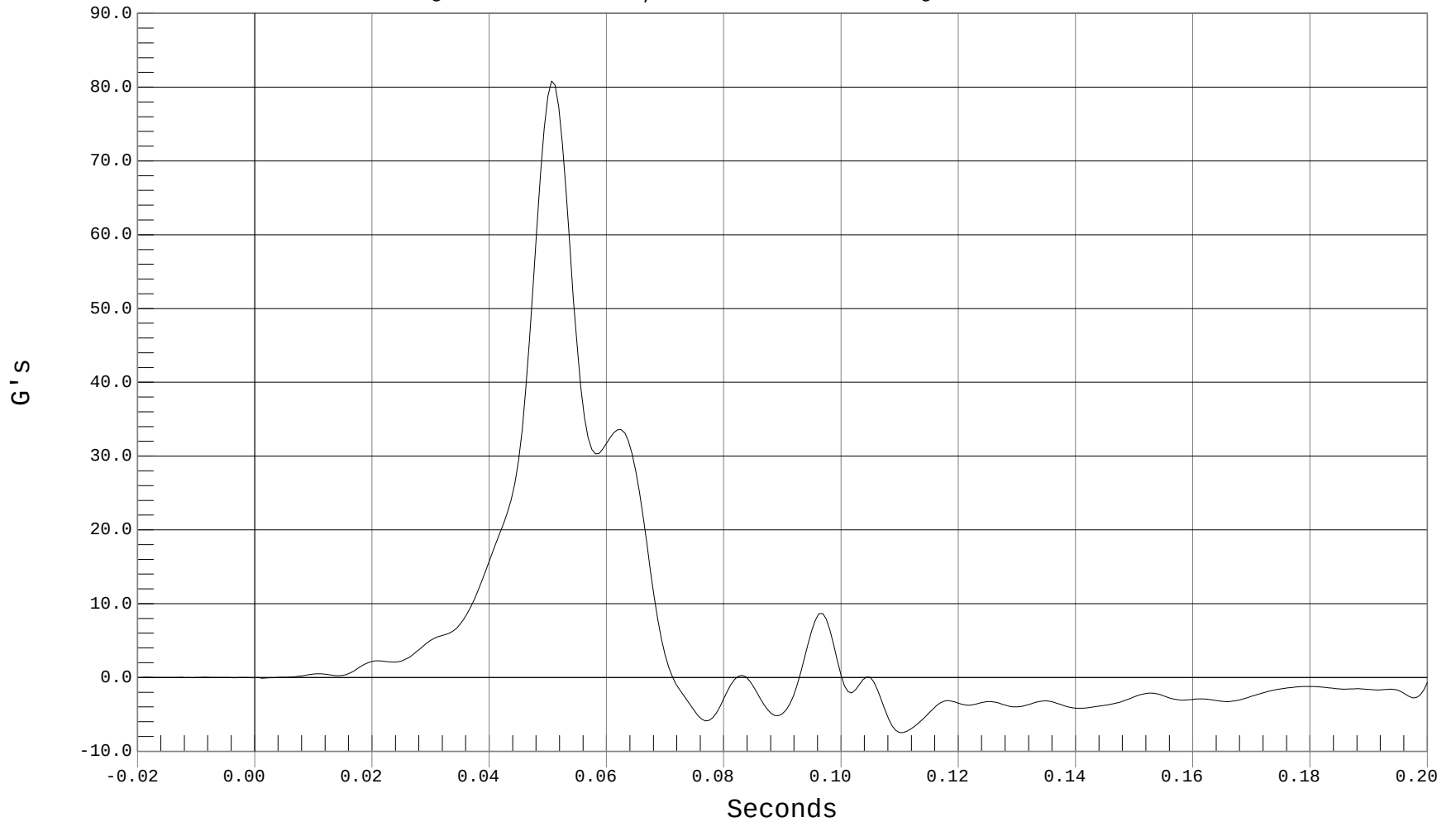
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER LOWER SPINE Y, B01079FI.R13

Ymin = -7.46 G's @ 0.1105 Seconds, Ymax = 80.83 G's @ 0.0505 Seconds





REAR PASSENGER LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

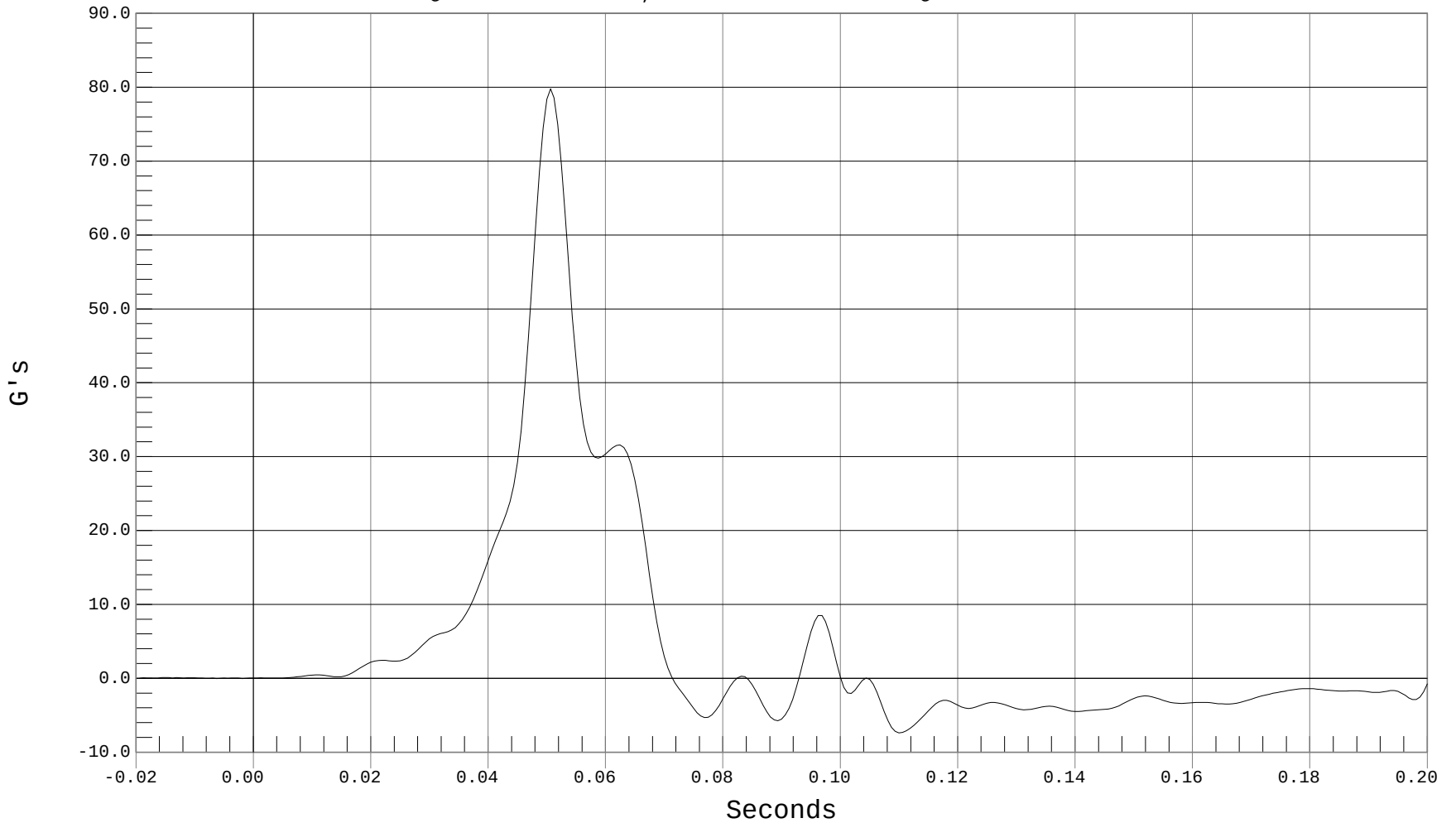
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER LOWER SPINE Yr, B01079FI.R47

Ymin = -7.39 G's @ 0.1099 Seconds, Ymax = 79.78 G's @ 0.0505 Seconds





REAR PASSENGER PELVIS Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

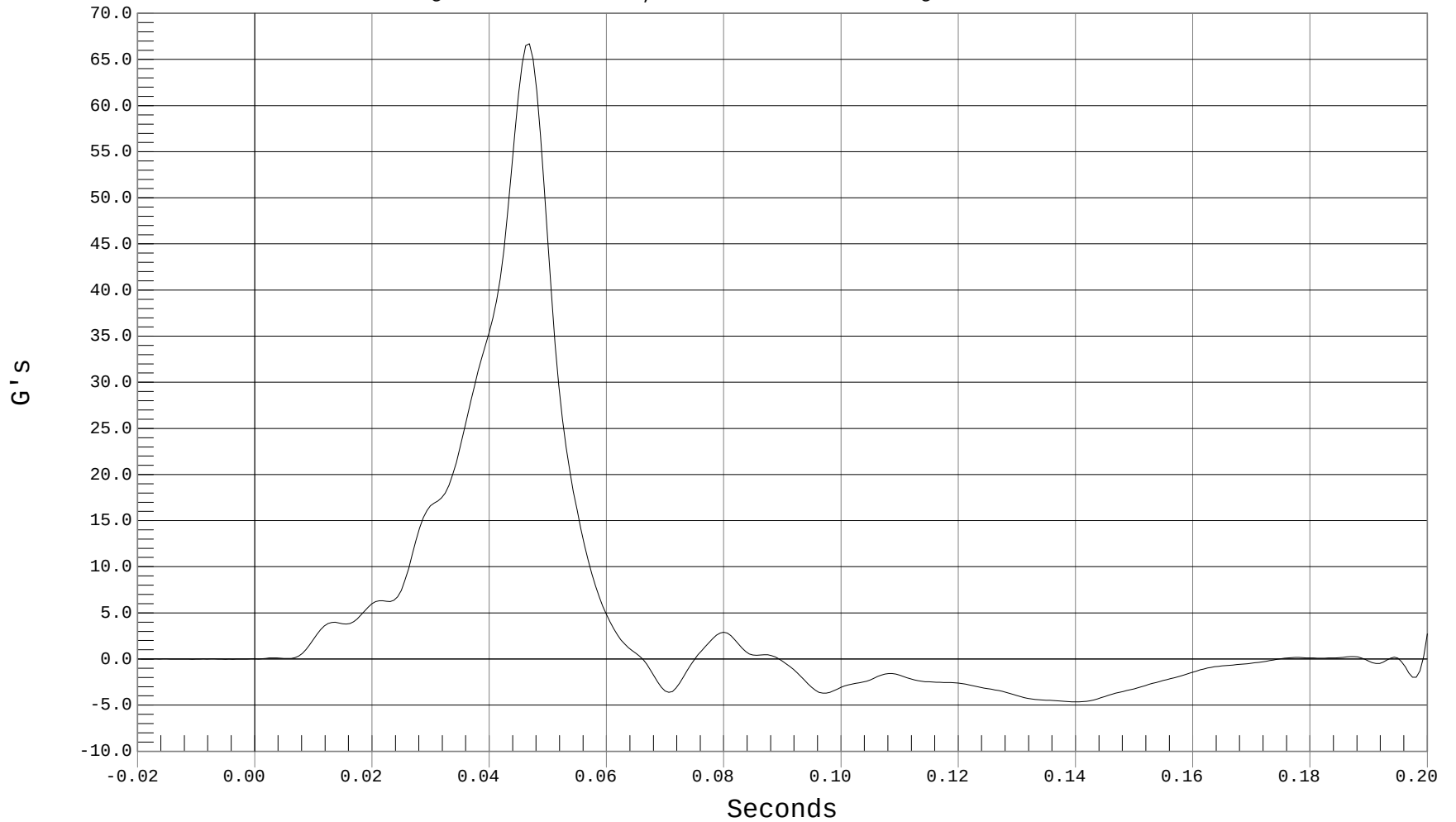
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER PELVIS Y, B01079FI.R14

Ymin = -4.65 G's @ 0.1405 Seconds, Ymax = 66.71 G's @ 0.0468 Seconds





REAR PASSENGER PELVIS REDUNDANT Y ACCELERATION

Test Desc.: NCAP SIDE IMPACT

Component: 2001 MITSUBISHI ECLIPSE GT

Other Info:

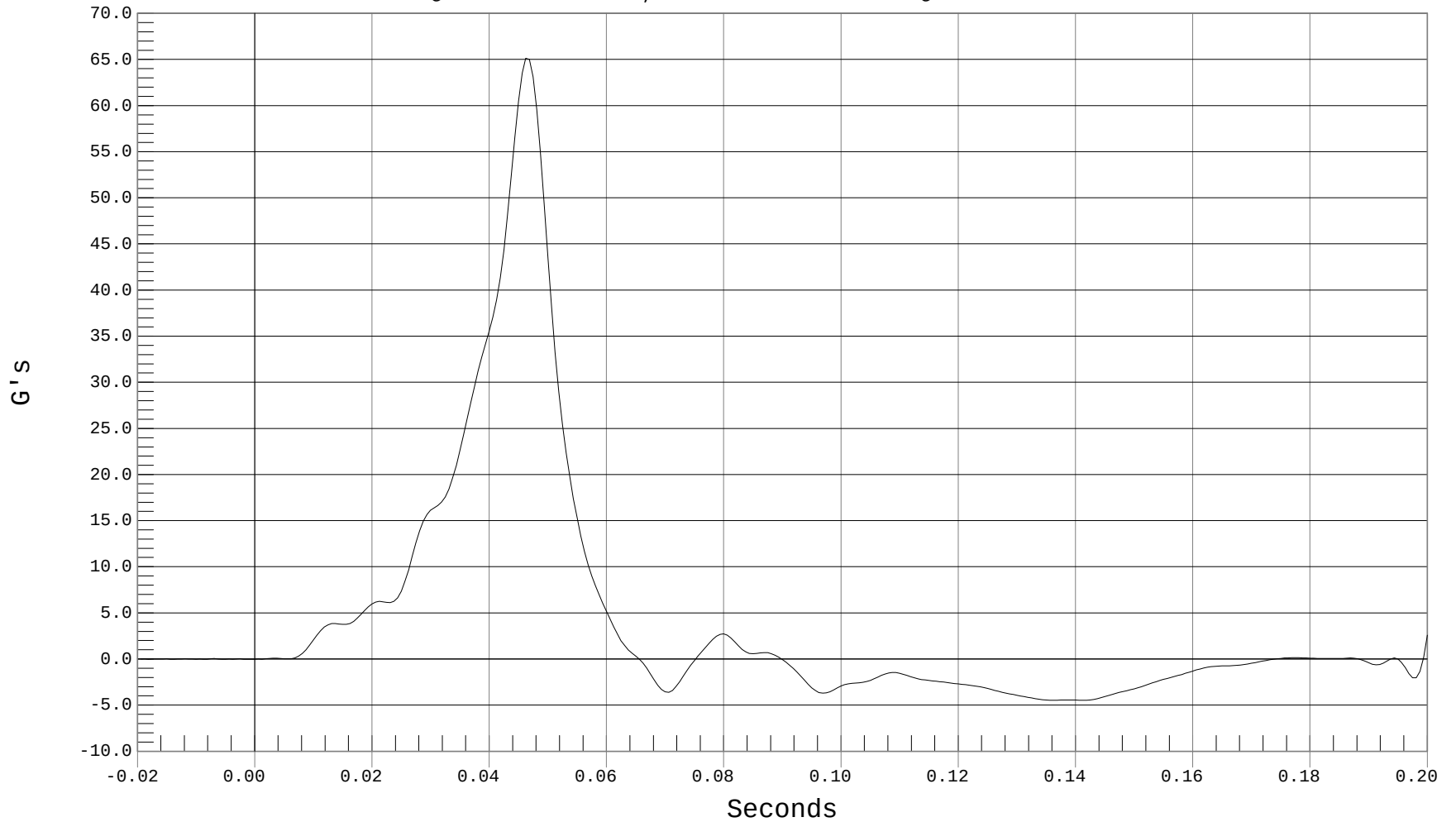
Test Date: 07-19-01

Speed: 38.6 MPH, 62.1 KPH

Fir Filtered

— 1 PASSENGER PELVIS Yr, B01079FI.R48

Ymin = -4.48 G's @ 0.1412 Seconds, Ymax = 65.13 G's @ 0.0462 Seconds



APPENDIX C

SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SID Calibration Data Sheet
Side Impact Dummy
External Measurements

ATD Serial No.: 269

Test Number: D01103

Tested Parameter	Units	Specification	Result	Pass/Fail
SH – Seated Height	mm	889 - 909	896	Pass
RH – Rib Height	mm	501 – 521	513	Pass
HP – Hip Pivot Height	mm	99 ref.	99	Pass
RD-Rib from Back Line	mm	229 – 241	236	Pass
KV – Knee Pivot from Back Line	mm	511 – 526	519	Pass
SW – Knee Pivot to Floor	mm	490 – 505	496	Pass
HW – Hip Width	mm	356 – 391	378	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
Head Drop Calibration

ATD Serial No.: 269

Test I.D.: D011031

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	20.8	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Peak Resultant Acceleration	G's	210 to 260	225	Pass
Peak Lateral Acceleration	G's	< 10	-6	Pass
Time Above 100 G	msec	0.9 – 1.5	1.2	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By



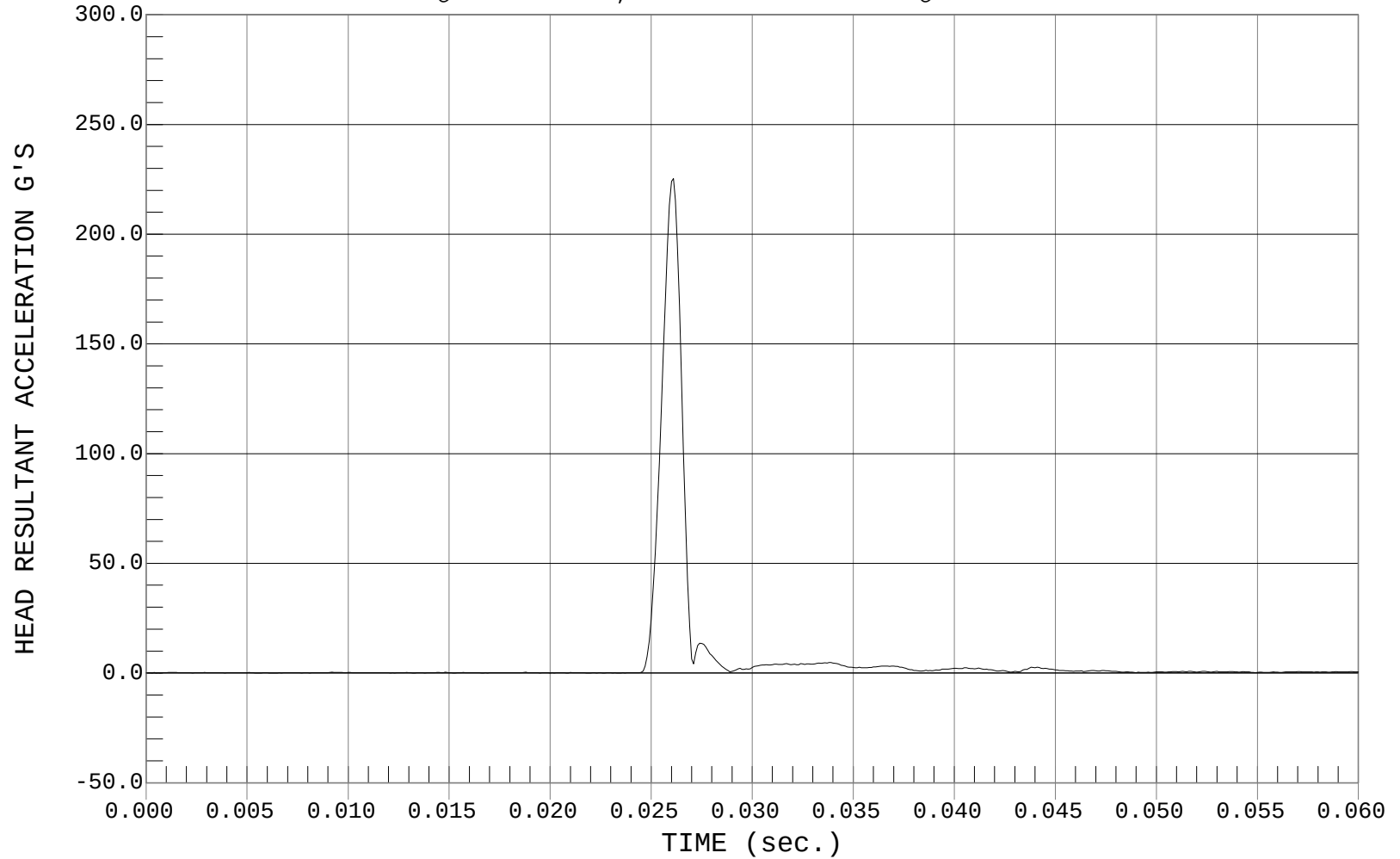
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #269

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01031av.a01

Ymin = .06 G'S @ 0.0003 sec., Ymax = 225.36 G'S @ 0.0261 sec.





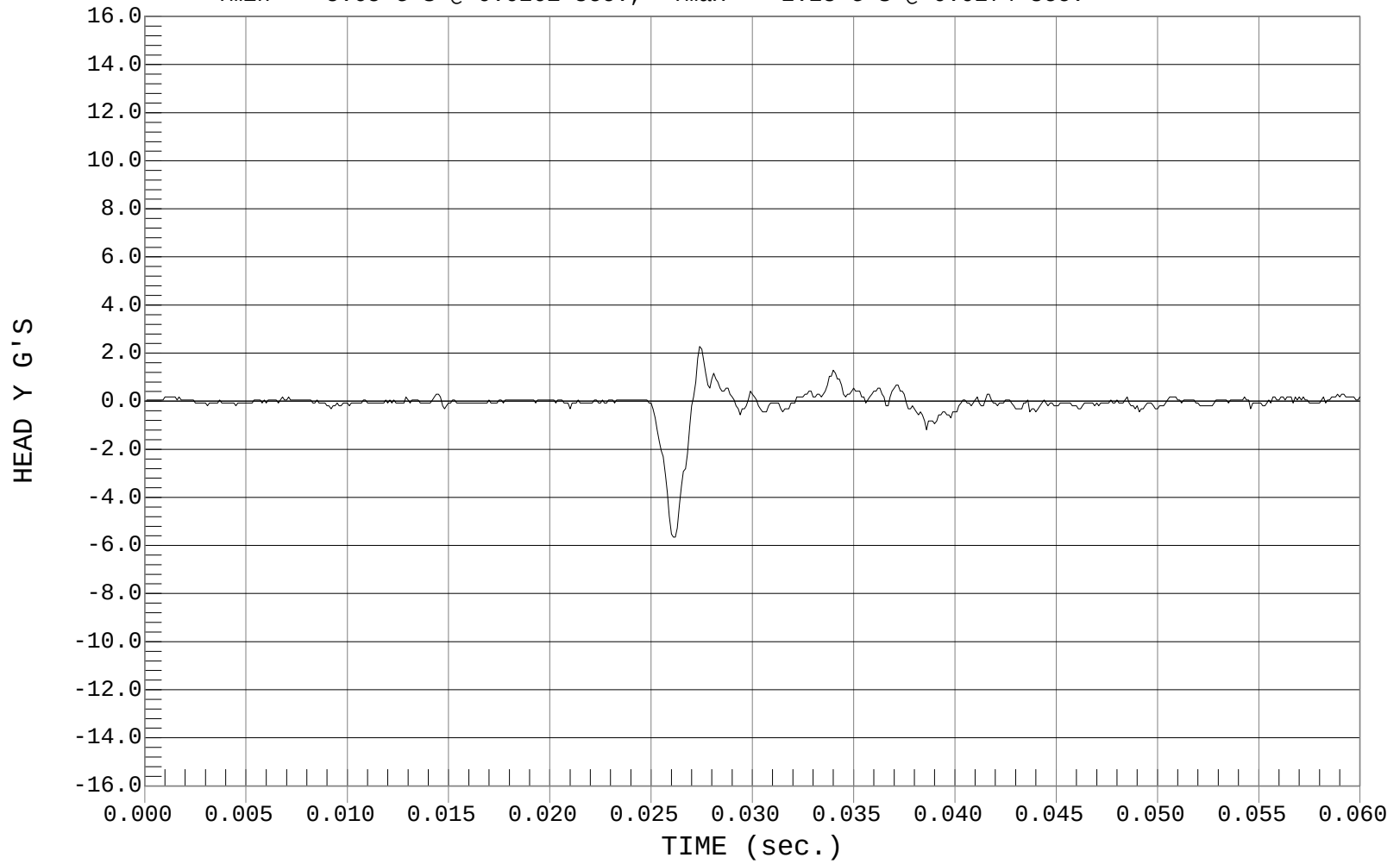
PEAK LATERAL ACCELARATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #269

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD Y, D01031AR.A02

Ymin = -5.65 G'S @ 0.0261 sec., Ymax = 2.28 G'S @ 0.0274 sec.



SID Calibration Data Sheet
Side Impact Dummy
Thorax Impact Calibration

ATD Serial No.: 269

Test I.D.: D011032

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.9	Pass
Laboratory Relative Humidity	%	10 to 70	47	Pass
Probe Velocity	m/s	4.27 – 4.33	4.29	Pass
Upper Rib	G's	37 – 46	38	Pass
Lower Rib	G's	37 – 46	37	Pass
Lower Spine	G's	15 - 22	19	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By



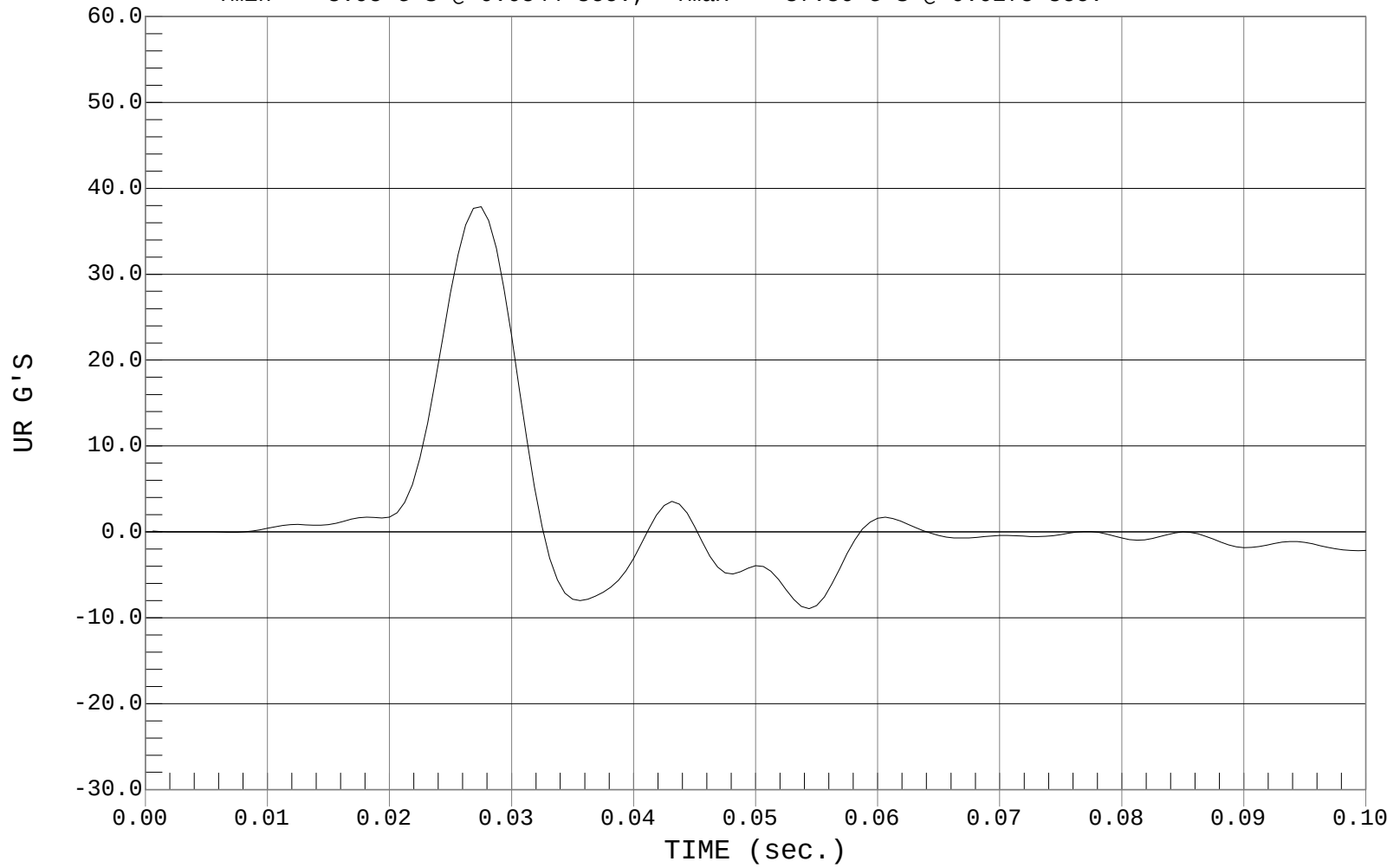
UPPER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #269

Test Date: 07-16-01
Speed: 14.08 FT/SEC, 4.29 M/SEC

— 1 UR, D01032FI.R08

Ymin = -8.95 G'S @ 0.0544 sec., Ymax = 37.86 G'S @ 0.0275 sec.





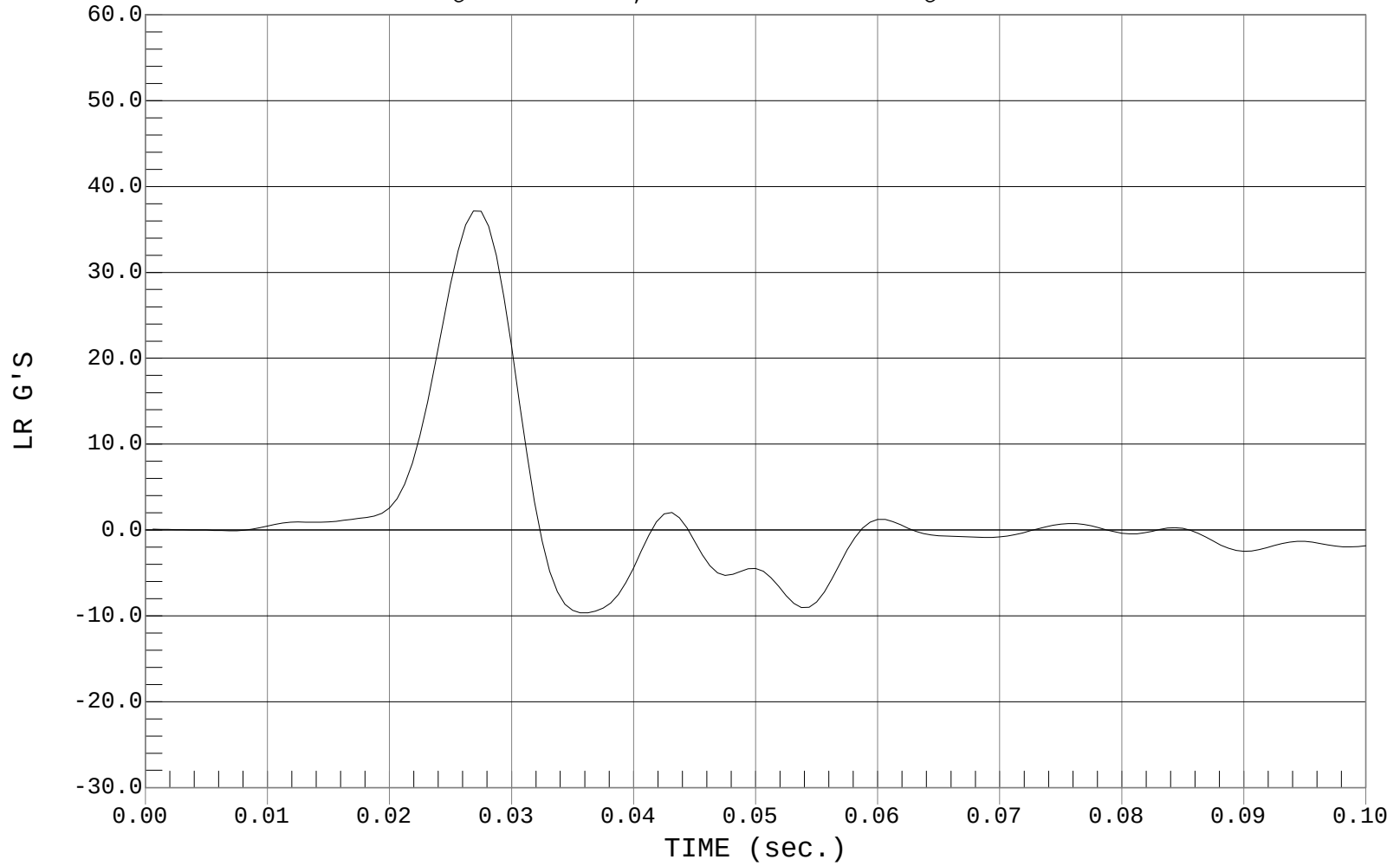
LOWER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #269

Test Date: 07-16-01
Speed: 14.08 FT/SEC, 4.29 M/SEC

— 1 LR, D01032FI.R09

Ymin = -9.64 G'S @ 0.0356 sec., Ymax = 37.16 G'S @ 0.0269 sec.





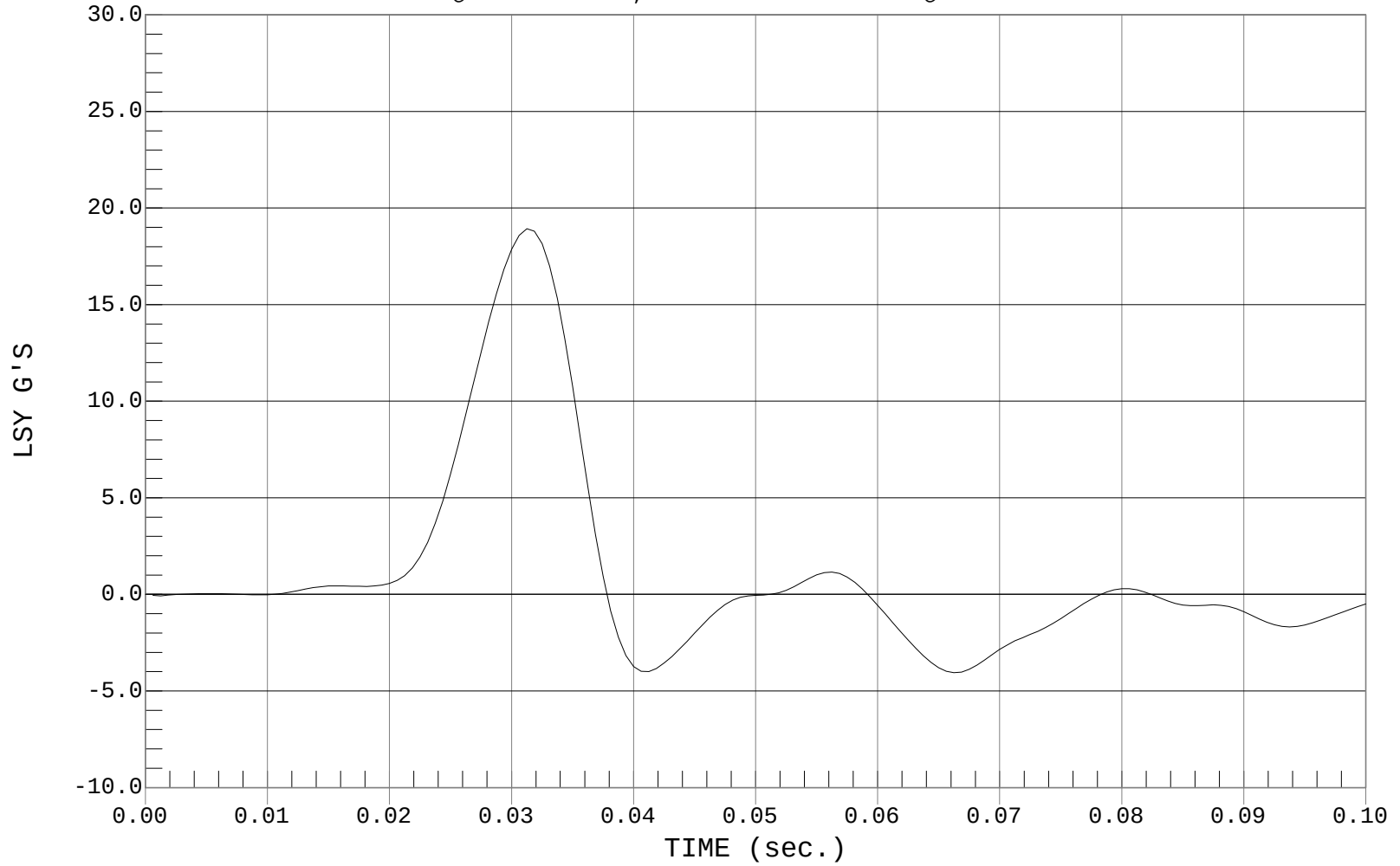
LOWER SPINE ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #269

Test Date: 07-16-01
Speed: 14.08 FT/SEC, 4.29 M/SEC

— 1 LSY, D01032FI.R10

Ymin = -4.06 G'S @ 0.0663 sec., Ymax = 18.93 G'S @ 0.0313 sec.



SID Calibration Data Sheet
Side Impact Dummy
Pelvis Impact Calibration

ATD Serial No.: 269

Test I.D.: D011033

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.9	Pass
Laboratory Relative Humidity	%	10 to 70	47	Pass
Probe Speed	m/s	4.27 – 4.33	4.30	Pass
Pelvis Acceleration	G's	40 - 60	44	Pass
Overall Test Results			Pass	

Laboratory Technician

7/16/01

Test Date

Approved By



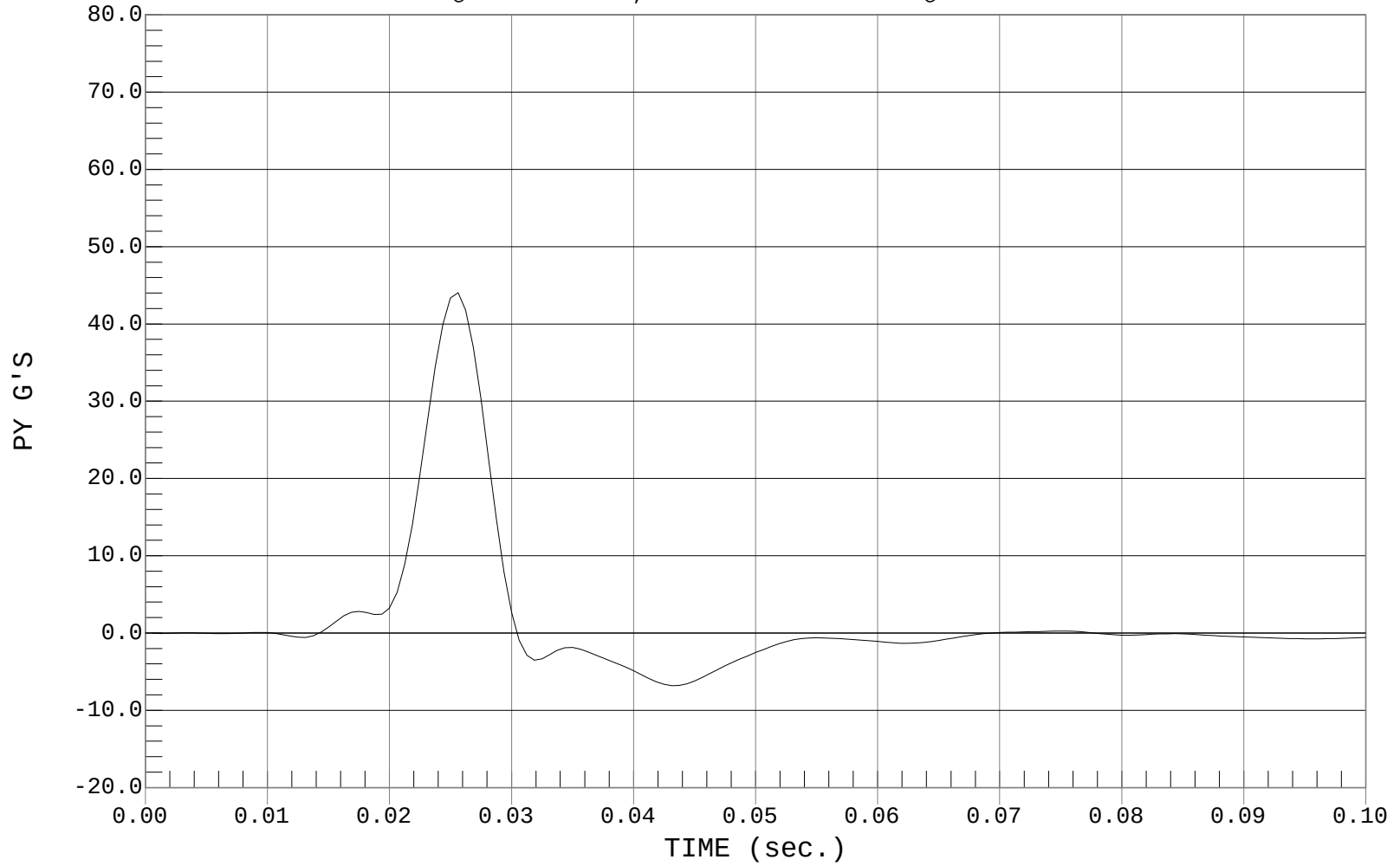
PELVIS ACCELERATION

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #269

Test Date: 07-16-01
Speed: 14.10 FT/SEC, 4.30 M/SEC

— 1 PY, D01033FI.R11

Ymin = -6.82 G'S @ 0.0431 sec., Ymax = 44.03 G'S @ 0.0256 sec.



SID Calibration Data Sheet
Side Impact Dummy
Abdominal Compression Calibration (Preload = 10 lbs)

ATD Serial No.: 269

Test I.D.: D011034

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.6	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Force @ 12.7	mm	104 – 162	136	Pass
Force @ 19	mm	163 – 222	186	Pass
Force @ 25.4	mm	222 – 280	248	Pass
Force @ 33	mm	325 - 391	339	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01
Test Date

Approved By



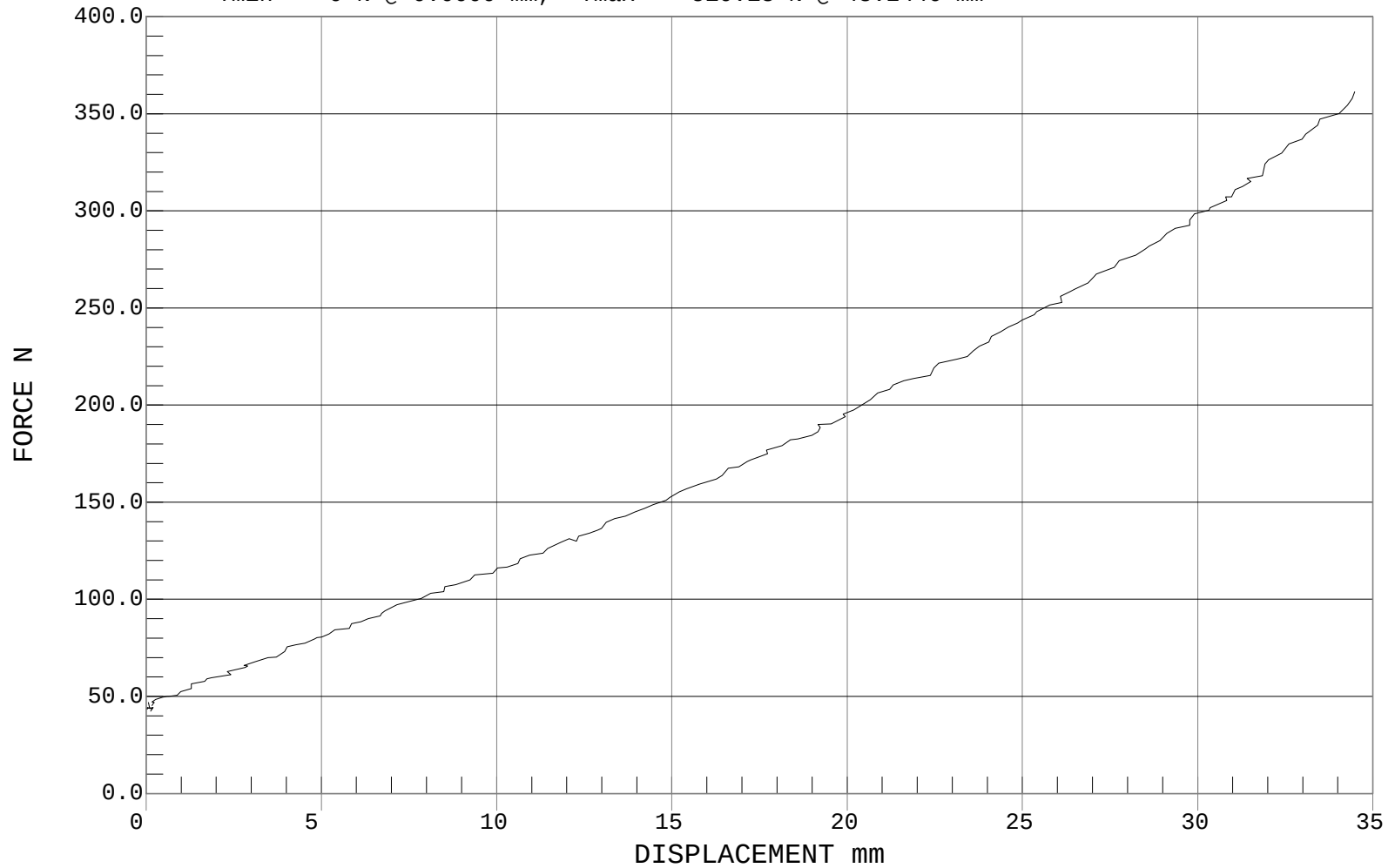
ABDOMEN COMPRESSION

Test Desc.: DUMMY CALIBRATION - ABDOMEN COMPRESSION
Component: DUMMY # 269

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 FORCE, D01034FC.F16

Ymin = 0 N @ 0.0000 mm, Ymax = 510.13 N @ 43.2446 mm



SID Calibration Data Sheet
Side Impact Dummy
Lumbar Flexion Calibration

ATD Serial No.: 269

Test I.D.: D011035

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.7	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Force @ 0	mm	0 – 26.7	0	Pass
Force @ 20	mm	97.9 – 151.2	126.0	Pass
Force @ 30	mm	151.2 – 204.6	173.3	Pass
Force @ 40	mm	204.6 – 258.0	224.5	Pass
Return Angle	Degrees	12 Maximum	1	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01
Test Date

Approved By



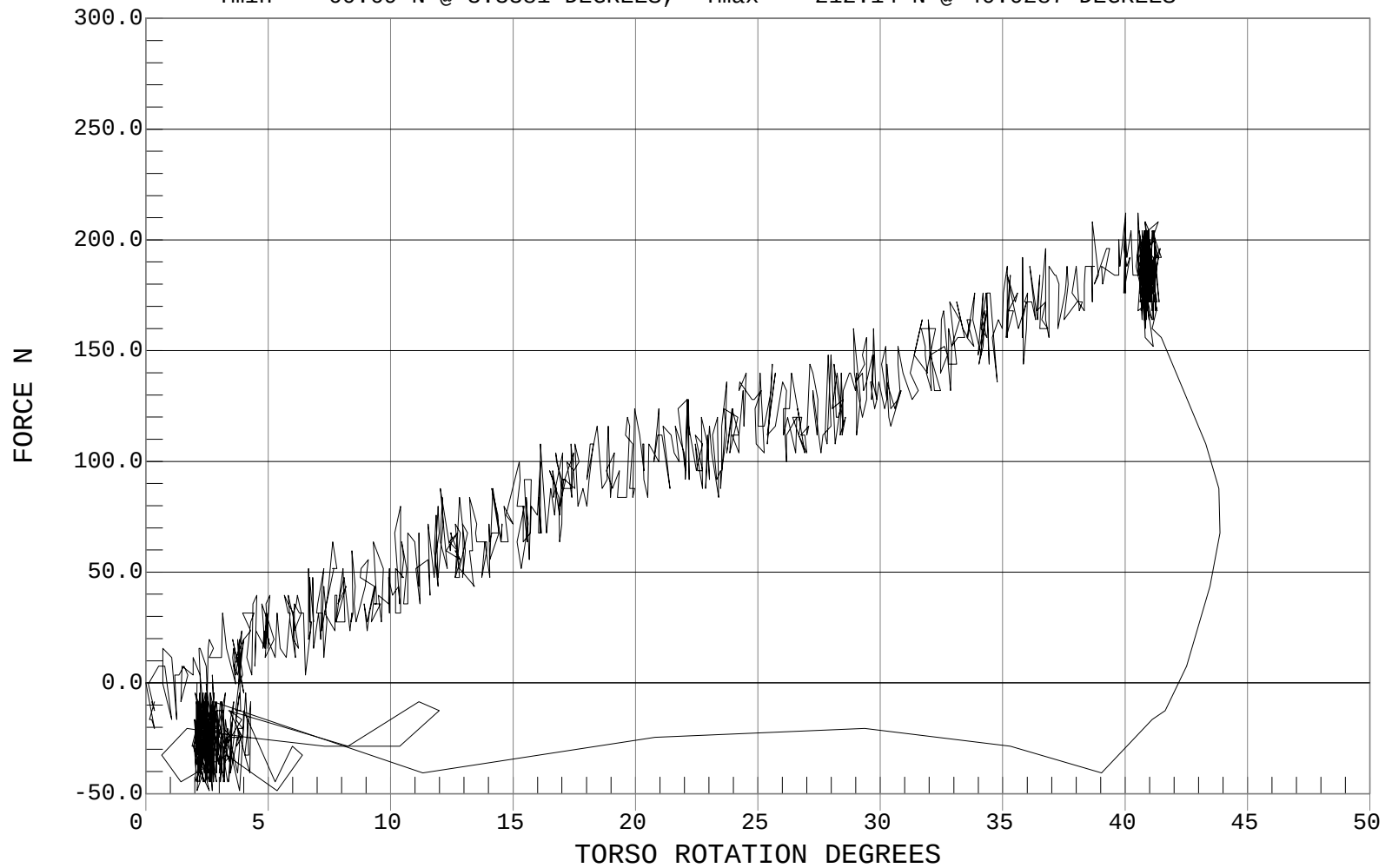
LUMBAR FLEXION

Test Desc.: DUMMY CALIBRATION - LUMBAR FLEXION
Component: DUMMY # 269

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 FORCE, D01035FC.F14

Ymin = -60.69 N @ 3.3381 DEGREES, Ymax = 212.14 N @ 40.0287 DEGREES



SID Calibration Data Sheet
Side Impact Dummy
Inspection Checklist

ATD Serial No.: 269

Test Part	Items Checked	Result
Skin	Visual inspection	Pass
Head	Visual, ballast, accelerometer mount	Pass
Neck	Visual	Pass
Spine Box	Visual, ballast, weldment, accelerometer mount	Pass
Rib Cage	Visual, measure	Pass
Sternum	Visual	Pass
Lumbar Spine	Visual	Pass
Abdomen	Visual	Pass
Pelvis	Visual, palpate, accelerometer mount	Pass
Upper Legs	Visual	Pass
Knees	Visual	Pass
Lower Legs	Visual, range of motion	Pass
Ankles	Visual, range of motion	Pass
Feet	Visual, range of motion	Pass
Joints	1 to 2 g range	Pass
Other		Pass

Pass

Notes (include component/problem/section/reason):

Laboratory Technician

7/16/01
Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
External Measurements

ATD Serial No.: 270

Test Number: D01104

Tested Parameter	Units	Specification	Result	Pass/Fail
SH – Seated Height	mm	889 - 909	903	Pass
RH – Rib Height	mm	501 – 521	515	Pass
HP – Hip Pivot Height	mm	99 ref.	99	Pass
RD-Rib from Back Line	mm	229 – 241	236	Pass
KV – Knee Pivot from Back Line	mm	511 – 526	516	Pass
SW – Knee Pivot to Floor	mm	490 – 505	494	Pass
HW – Hip Width	mm	356 – 391	371	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
Head Drop Calibration

ATD Serial No.: 270

Test I.D.: D011041

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	20.8	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Peak Resultant Acceleration	G's	210 to 260	233	Pass
Peak Lateral Acceleration	G's	< 10	2	Pass
Time Above 100 G	msec	0.9 – 1.5	1.2	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By



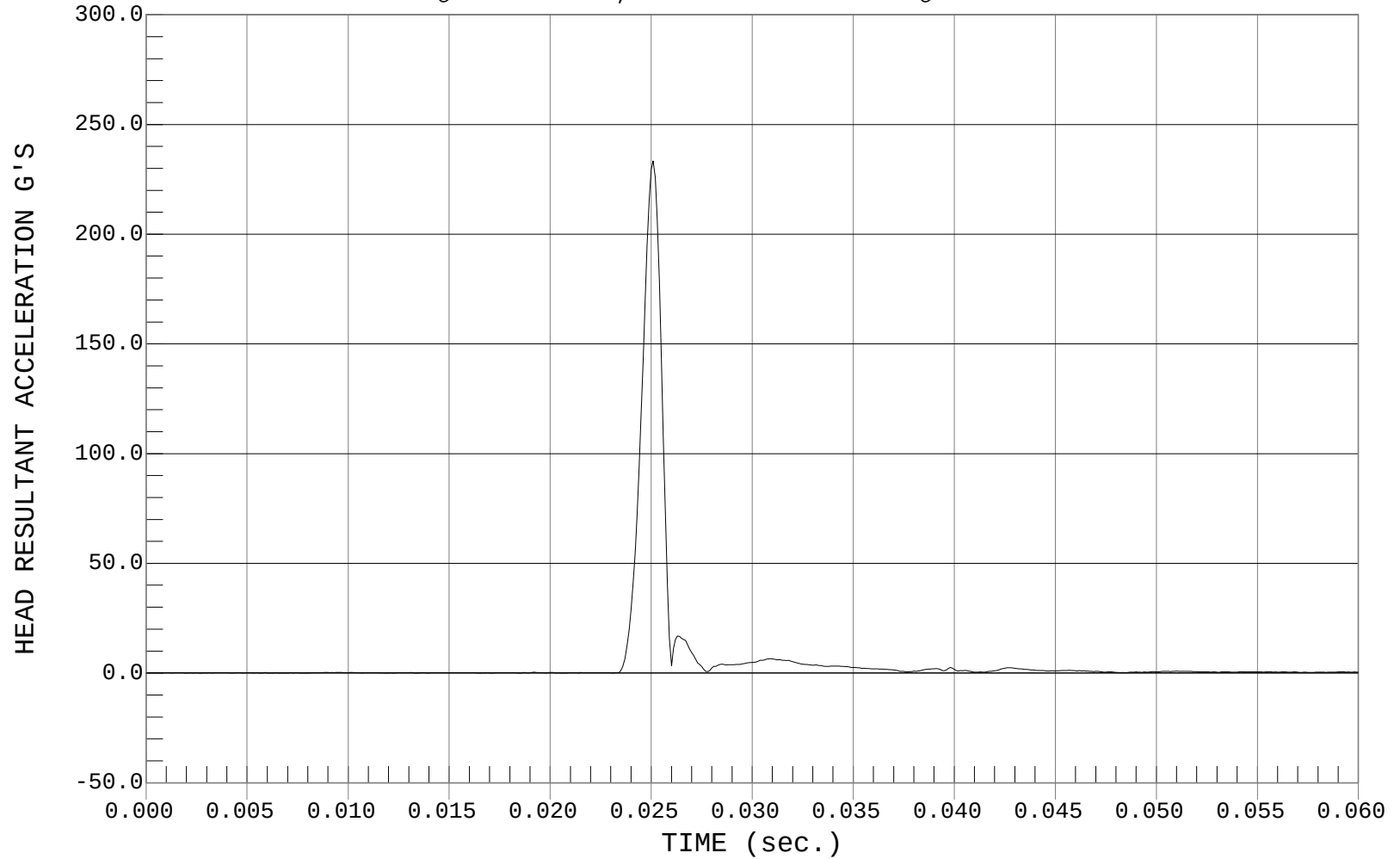
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #270

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01041av.a01

Ymin = .04 G'S @ 0.0001 sec., Ymax = 233.34 G'S @ 0.0251 sec.





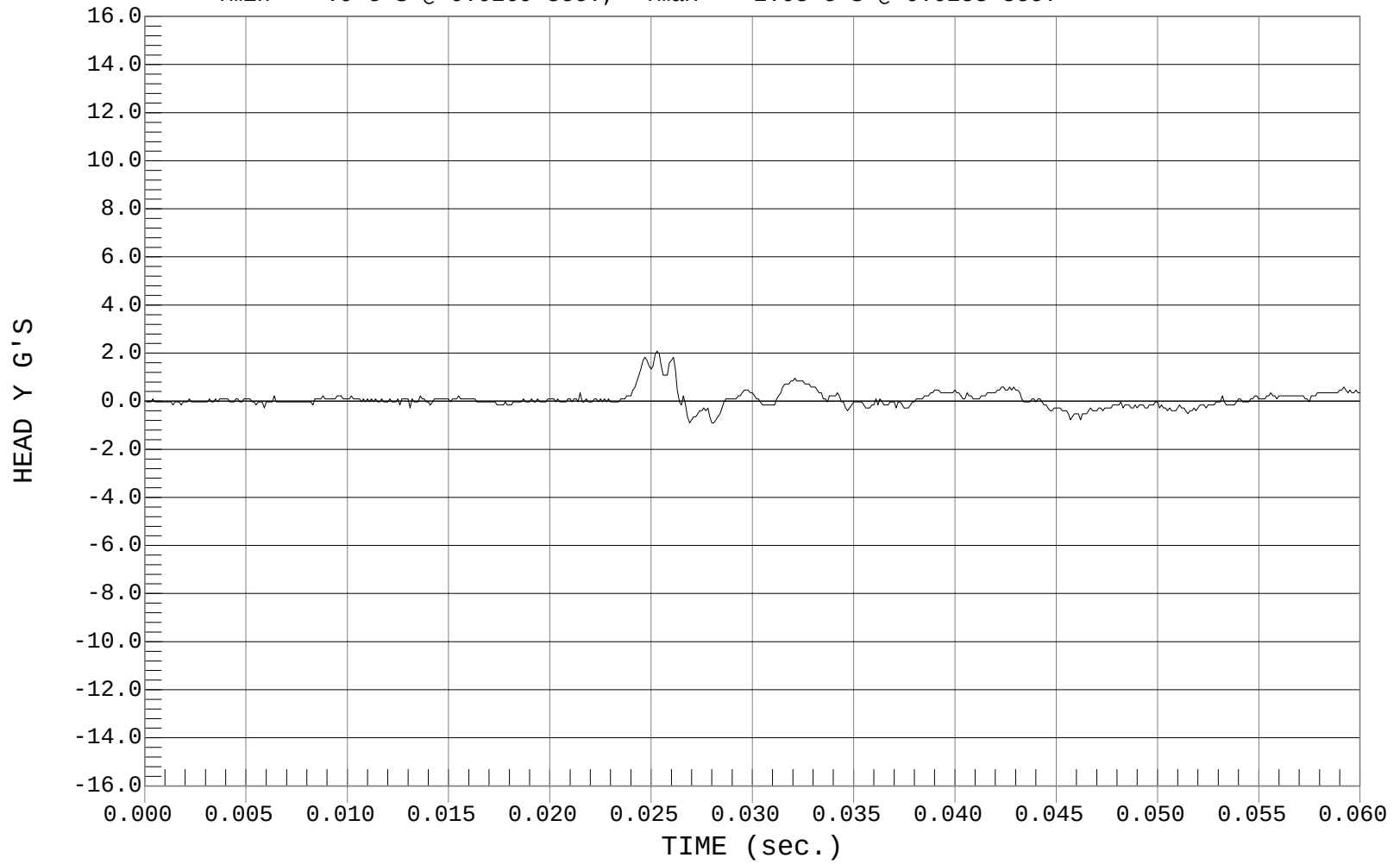
PEAK LATERAL ACCELARATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #270

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD Y, D01041AR.A02

Ymin = -.9 G'S @ 0.0269 sec., Ymax = 2.08 G'S @ 0.0253 sec.



SID Calibration Data Sheet
Side Impact Dummy
Thorax Impact Calibration

ATD Serial No.: 270

Test I.D.: D011042

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.6	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Probe Velocity	m/s	4.27 – 4.33	4.28	Pass
Upper Rib	G's	37 – 46	38	Pass
Lower Rib	G's	37 – 46	40	Pass
Lower Spine	G's	15 - 22	18	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By



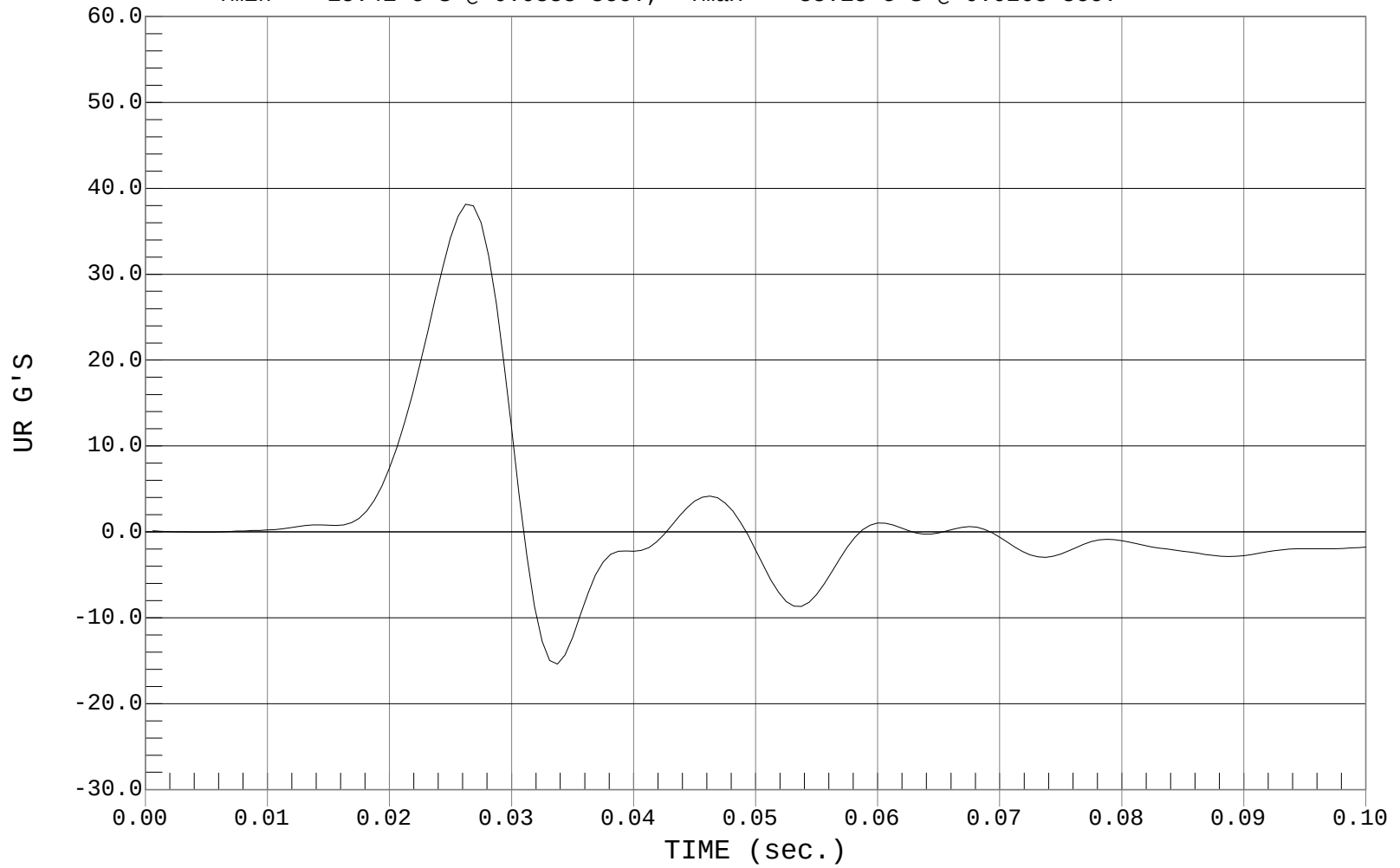
UPPER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #270

Test Date: 07-16-01
Speed: 14.03 FT/SEC, 4.28 M/SEC

— 1 UR, D01042FI.R08

Ymin = -15.41 G'S @ 0.0338 sec., Ymax = 38.15 G'S @ 0.0263 sec.





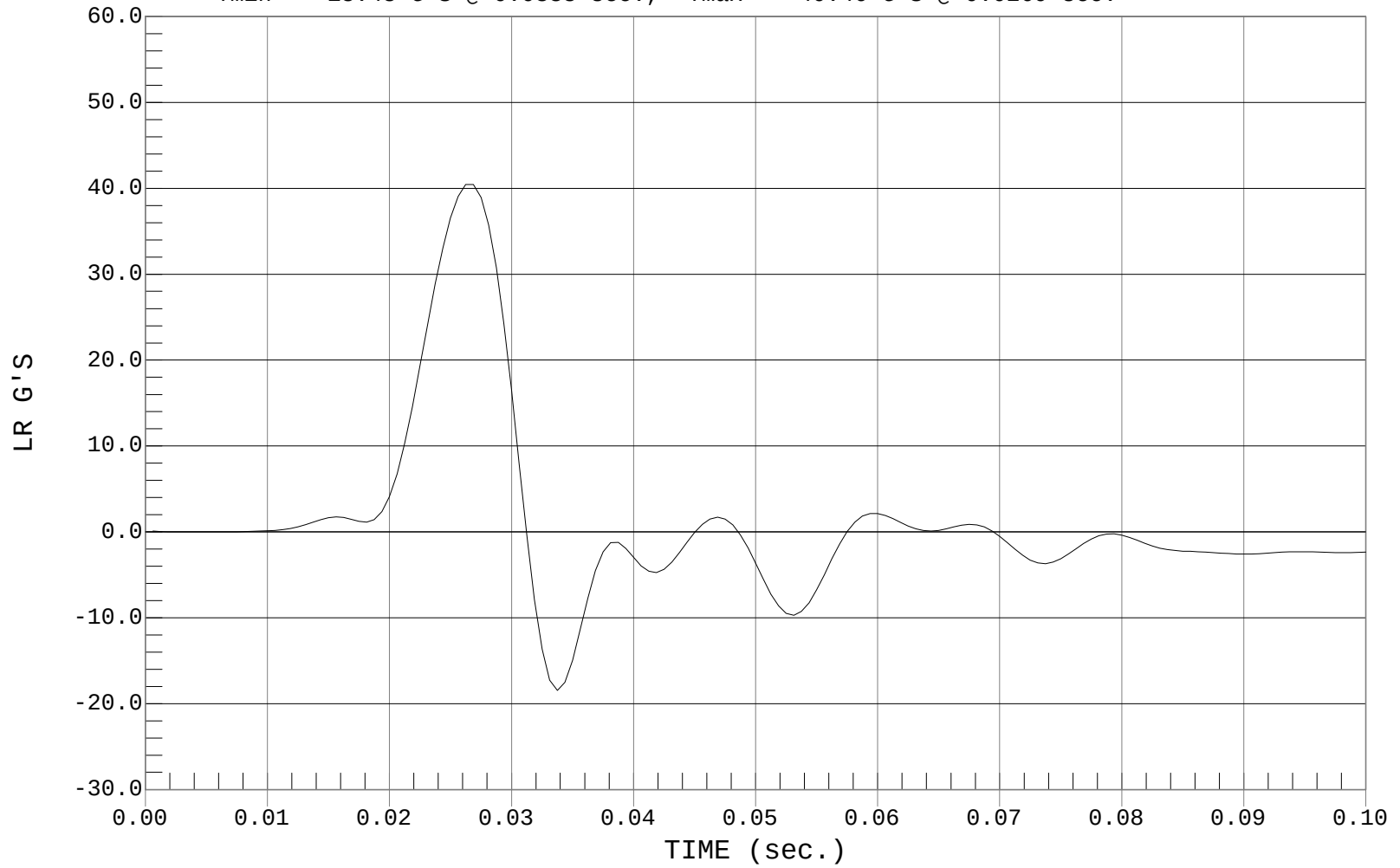
LOWER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #270

Test Date: 07-16-01
Speed: 14.03 FT/SEC, 4.28 M/SEC

— 1 LR, D01042FI.R09

Ymin = -18.48 G'S @ 0.0338 sec., Ymax = 40.46 G'S @ 0.0269 sec.





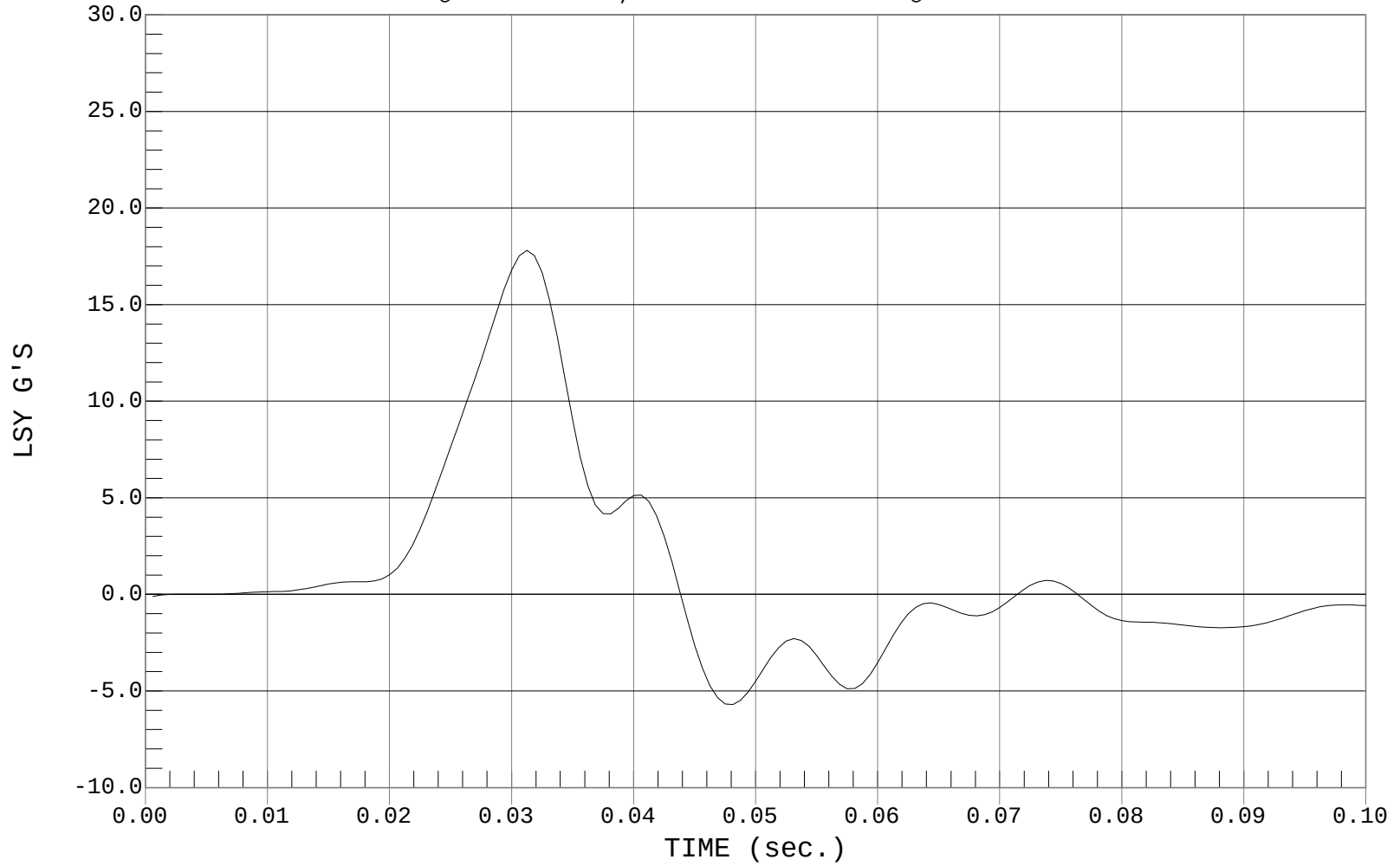
LOWER SPINE ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #270

Test Date: 07-16-01
Speed: 14.03 FT/SEC, 4.28 M/SEC

— 1 LSY, D01042FI.R10

Ymin = -5.7 G'S @ 0.0481 sec., Ymax = 17.81 G'S @ 0.0313 sec.



SID Calibration Data Sheet
Side Impact Dummy
Pelvis Impact Calibration

ATD Serial No.: 270

Test I.D.: D011043

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.6	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Probe Speed	m/s	4.27 – 4.33	4.28	Pass
Pelvis Acceleration	G's	40 - 60	42	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01

Test Date

Approved By



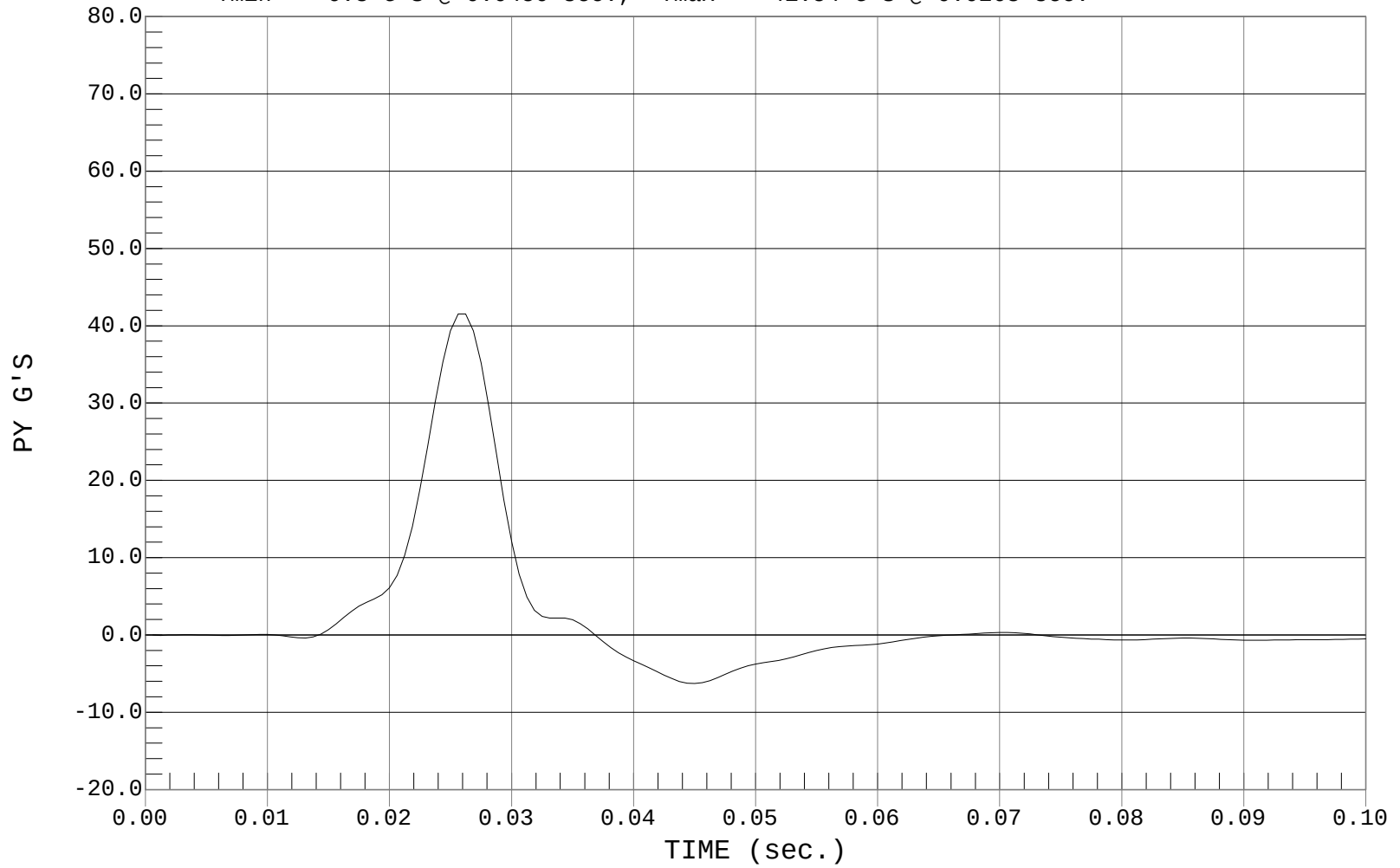
PELVIS ACCELERATION

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #270

Test Date: 07-16-01
Speed: 14.03 FT/SEC, 4.28 M/SEC

— 1 PY, D01043FI.R11

Ymin = -6.3 G'S @ 0.0450 sec., Ymax = 41.54 G'S @ 0.0263 sec.



SID Calibration Data Sheet
Side Impact Dummy
Abdominal Compression Calibration (Preload = 10 lbs)

ATD Serial No.: 270

Test I.D.: D011044

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.6	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Force @ 12.7	mm	104 – 162	146	Pass
Force @ 19	mm	163 – 222	204	Pass
Force @ 25.4	mm	222 – 280	267	Pass
Force @ 33	mm	325 - 391	367	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01
Test Date

Approved By



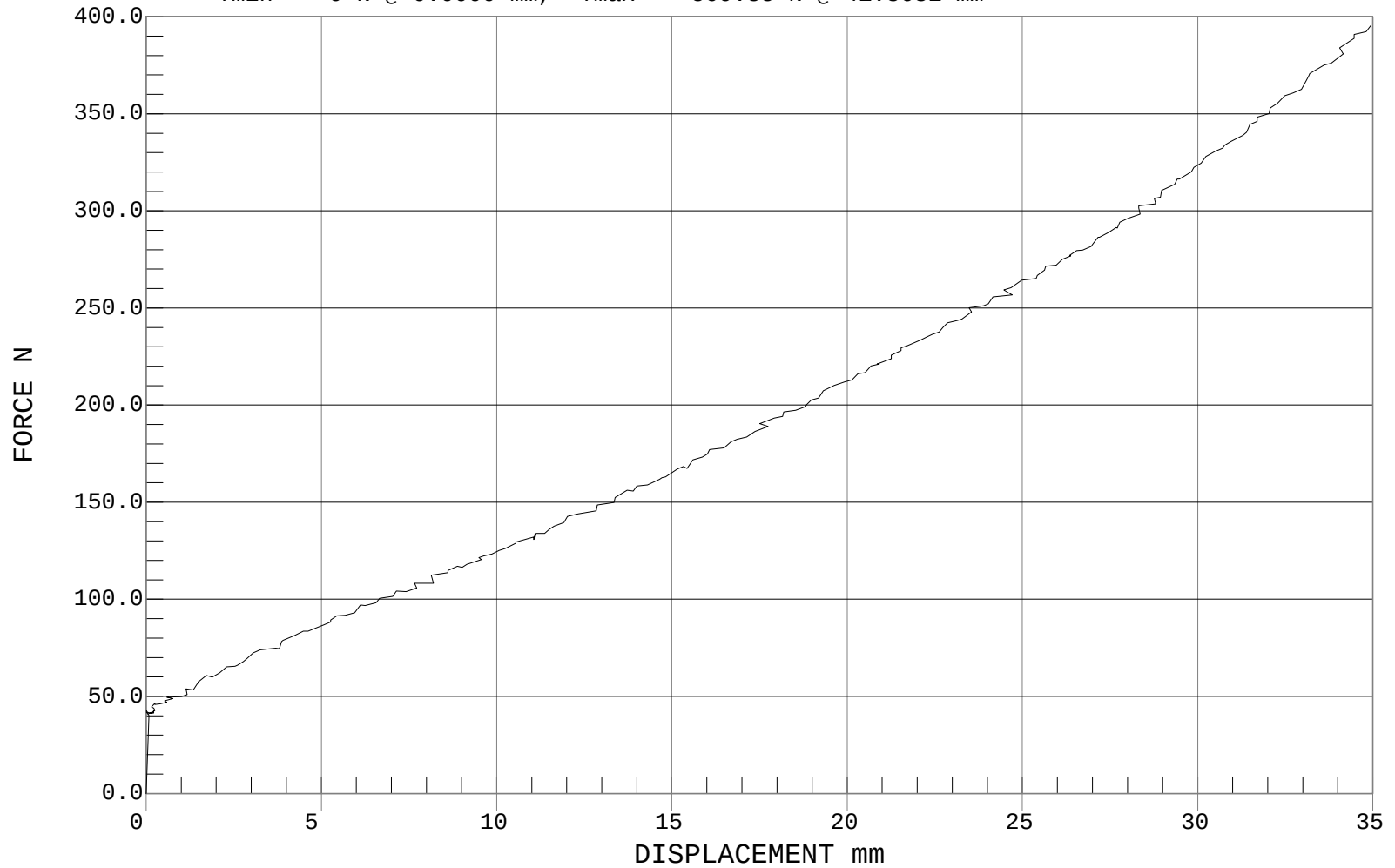
ABDOMEN COMPRESSION

Test Desc.: DUMMY CALIBRATION - ABDOMEN COMPRESSION
Component: DUMMY # 270

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 FORCE, D01044FC.F16

Ymin = 0 N @ 0.0000 mm, Ymax = 509.85 N @ 41.8631 mm



SID Calibration Data Sheet
Side Impact Dummy
Lumbar Flexion Calibration

ATD Serial No.: 270

Test I.D.: D011045

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	20.6	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Force @ 0	mm	0 – 26.7	0	Pass
Force @ 20	mm	97.9 – 151.2	101.1	Pass
Force @ 30	mm	151.2 – 204.6	160.1	Pass
Force @ 40	mm	204.6 – 258.0	219.2	Pass
Return Angle	Degrees	12 Maximum	1	Pass
Overall Test Results				Pass

Laboratory Technician

7/16/01
Test Date

Approved By



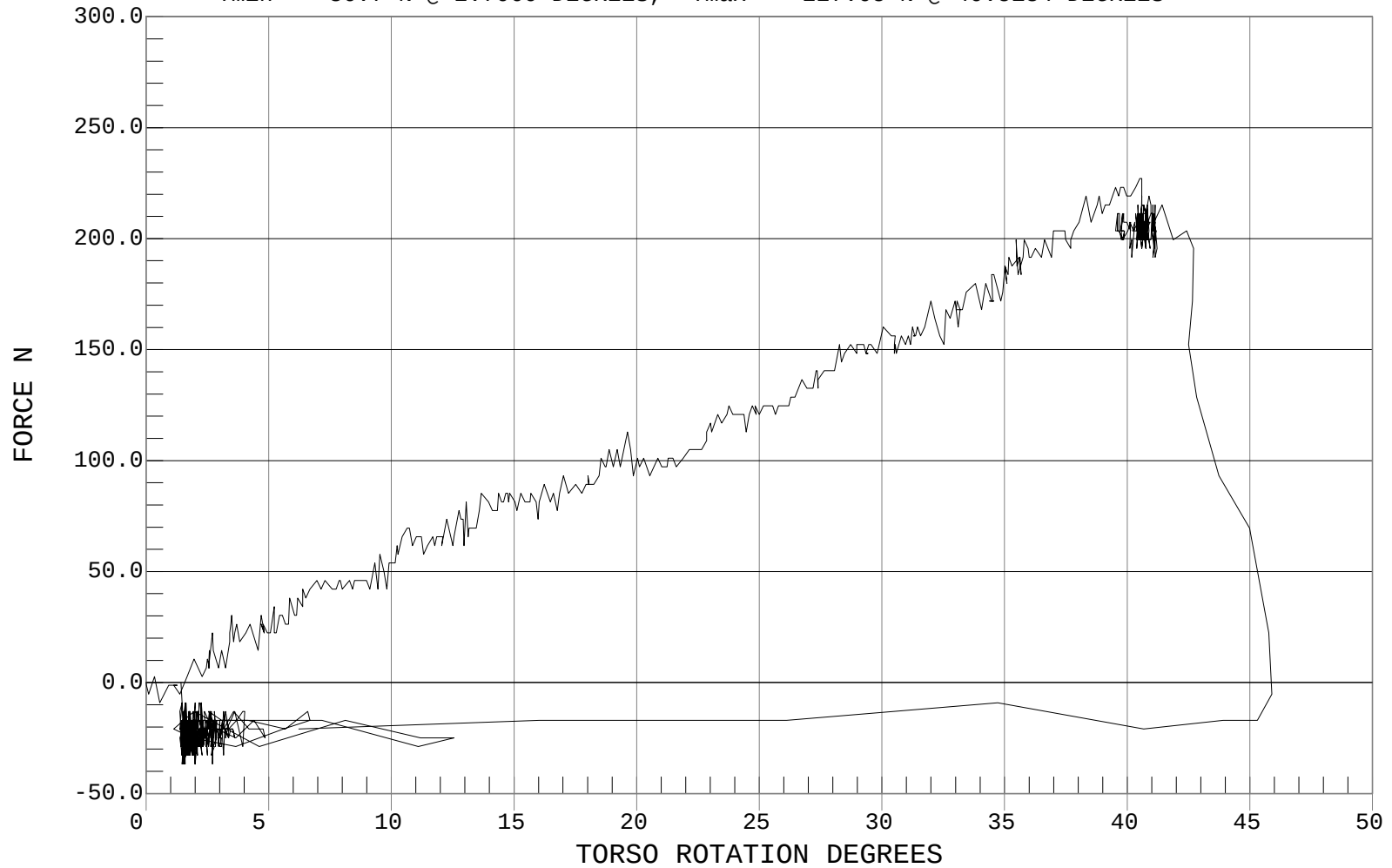
LUMBAR FLEXION

Test Desc.: DUMMY CALIBRATION - LUMBAR FLEXION
Component: DUMMY # 270

Test Date: 07-16-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 FORCE, D01045FC.F14

Ymin = -36.7 N @ 2.7060 DEGREES, Ymax = 227.05 N @ 40.5134 DEGREES



SID Calibration Data Sheet
Side Impact Dummy
Inspection Checklist

ATD Serial No.: 270

Test Part	Items Checked	Result
Skin	Visual inspection	Pass
Head	Visual, ballast, accelerometer mount	Pass
Neck	Visual	Pass
Spine Box	Visual, ballast, weldment, accelerometer mount	Pass
Rib Cage	Visual, measure	Pass
Sternum	Visual	Pass
Lumbar Spine	Visual	Pass
Abdomen	Visual	Pass
Pelvis	Visual, palpate, accelerometer mount	Pass
Upper Legs	Visual	Pass
Knees	Visual	Pass
Lower Legs	Visual, range of motion	Pass
Ankles	Visual, range of motion	Pass
Feet	Visual, range of motion	Pass
Joints	1 to 2 g range	Pass
Other		Pass

Notes (include component/problem/section/reason):

Laboratory Technician

7/16/01
Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
External Measurements

ATD Serial No.: 269

Test Number: D01109

Tested Parameter	Units	Specification	Result	Pass/Fail
SH – Seated Height	mm	889 - 909	896	Pass
RH – Rib Height	mm	501 – 521	513	Pass
HP – Hip Pivot Height	mm	99 ref.	99	Pass
RD-Rib from Back Line	mm	229 – 241	236	Pass
KV – Knee Pivot from Back Line	mm	511 – 526	519	Pass
SW – Knee Pivot to Floor	mm	490 – 505	496	Pass
HW – Hip Width	mm	356 – 391	378	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01
Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
Head Drop Calibration

ATD Serial No.: 269

Test I.D.: D011091

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Peak Resultant Acceleration	G's	210 to 260	237	Pass
Peak Lateral Acceleration	G's	< 10	-3	Pass
Time Above 100 G	msec	0.9 – 1.5	1.2	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01

Test Date

Approved By



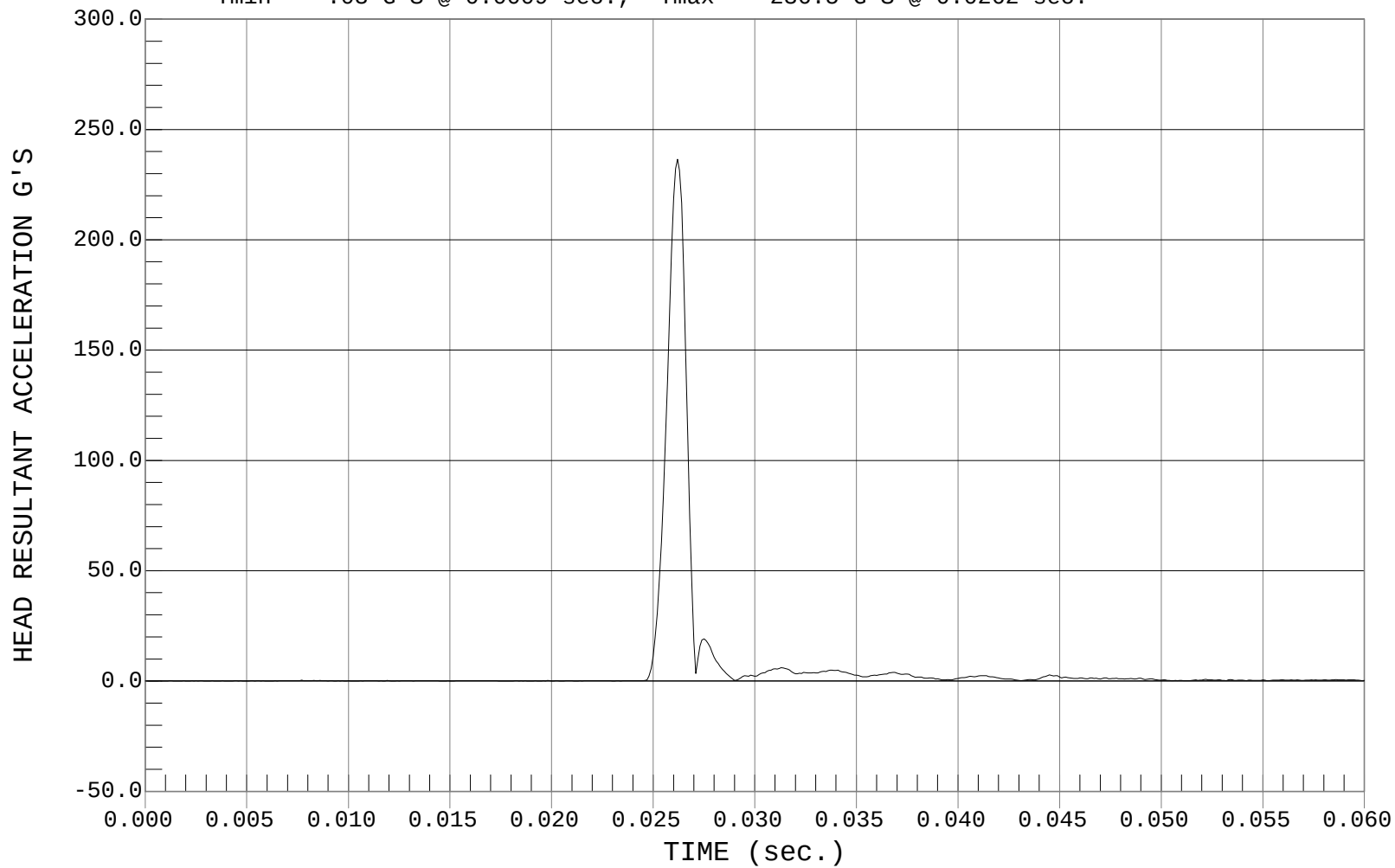
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #269

Test Date: 07-26-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01091av.a01

Ymin = .03 G'S @ 0.0009 sec., Ymax = 236.5 G'S @ 0.0262 sec.





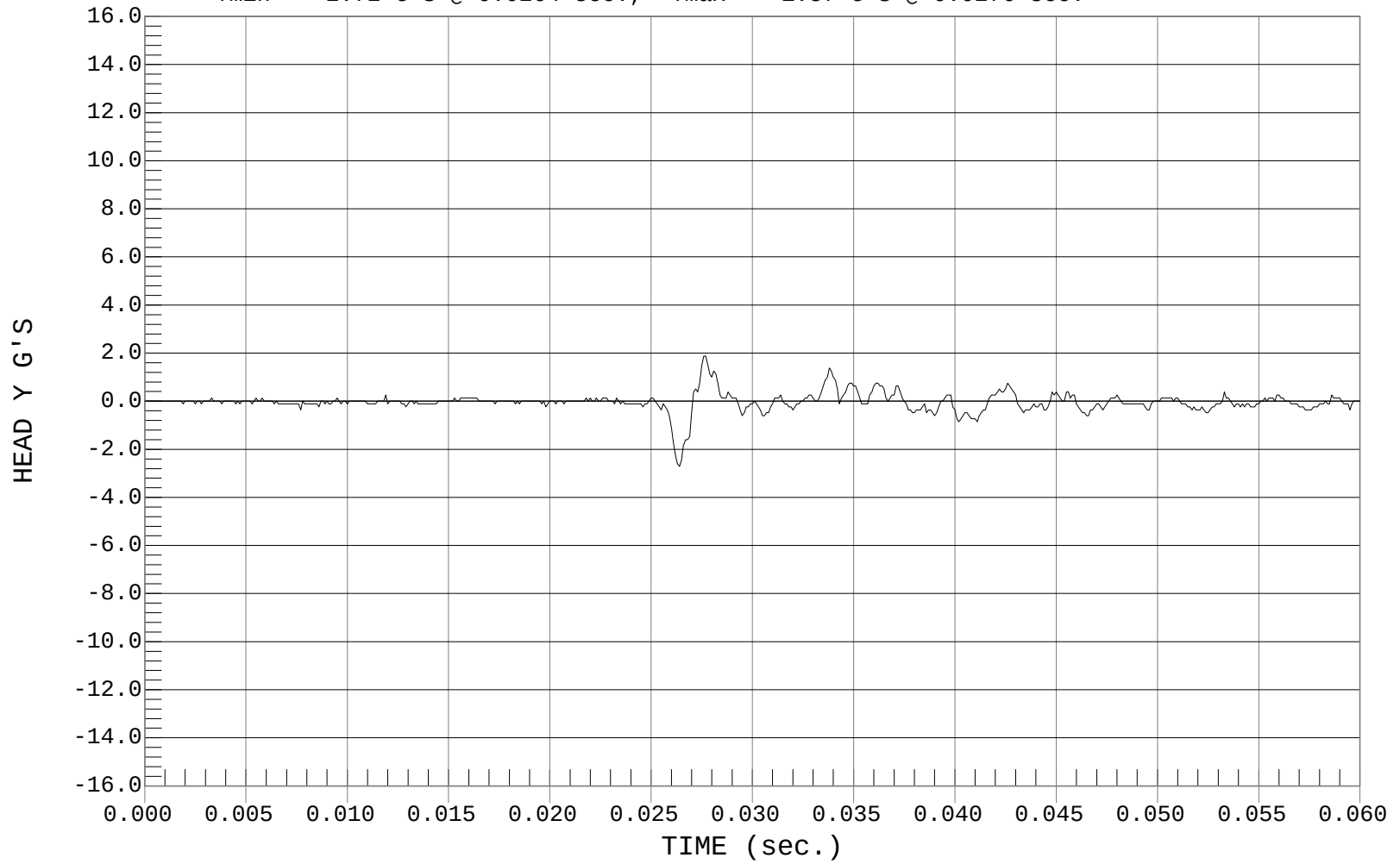
PEAK LATERAL ACCELARATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #269

Test Date: 07-26-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD Y, D01091AR.A02

Ymin = -2.72 G'S @ 0.0264 sec., Ymax = 1.87 G'S @ 0.0276 sec.



SID Calibration Data Sheet
Side Impact Dummy
Thorax Impact Calibration

ATD Serial No.: 269

Test I.D.: D011092

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Probe Velocity	m/s	4.27 – 4.33	4.30	Pass
Upper Rib	G's	37 – 46	38	Pass
Lower Rib	G's	37 – 46	38	Pass
Lower Spine	G's	15 - 22	18	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01

Test Date

Approved By



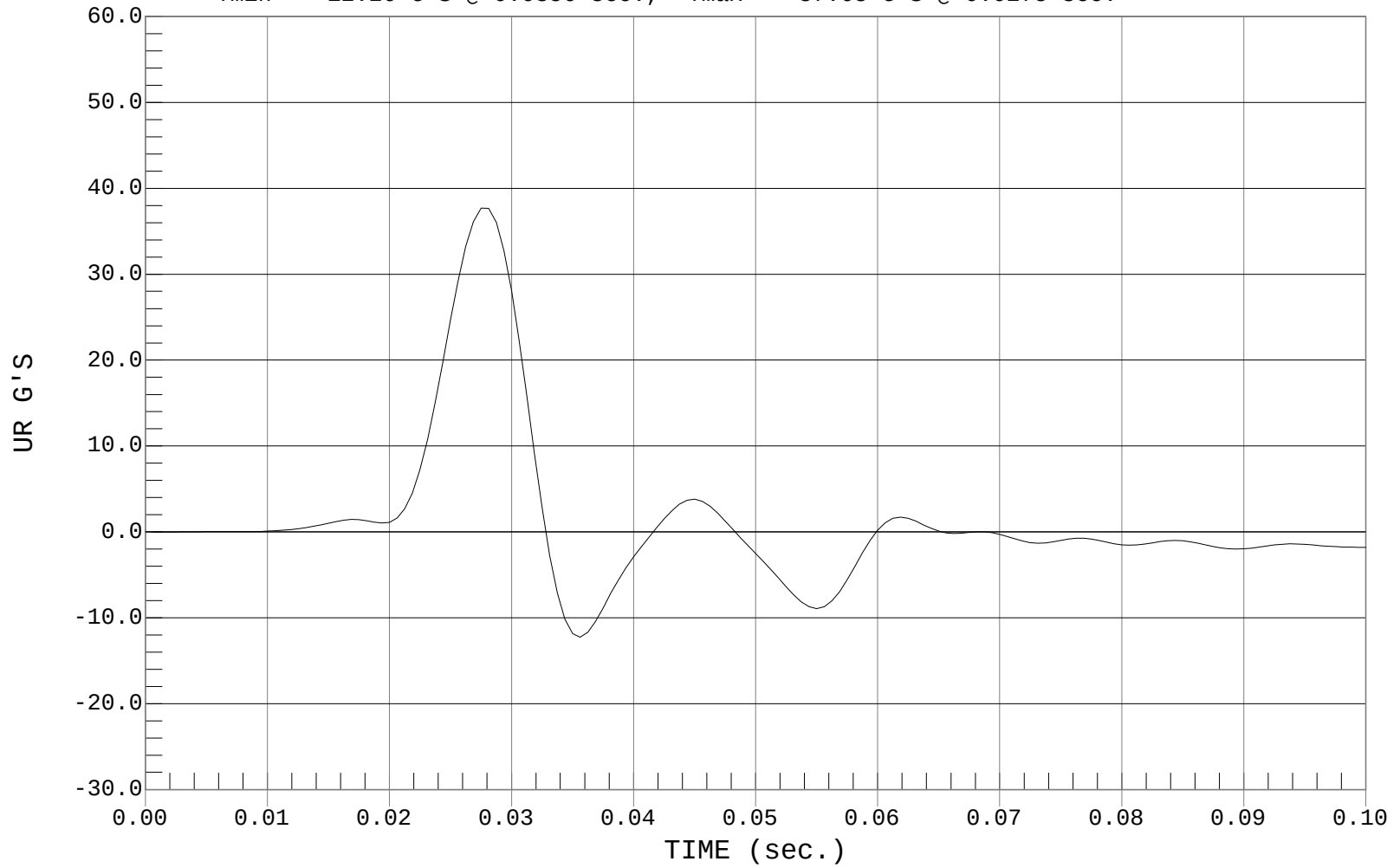
UPPER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #269

Test Date: 07-26-01
Speed: 14.11 FT/SEC, 4.30 M/SEC

— 1 UR, D01092FI.R08

Ymin = -12.26 G'S @ 0.0356 sec., Ymax = 37.68 G'S @ 0.0275 sec.





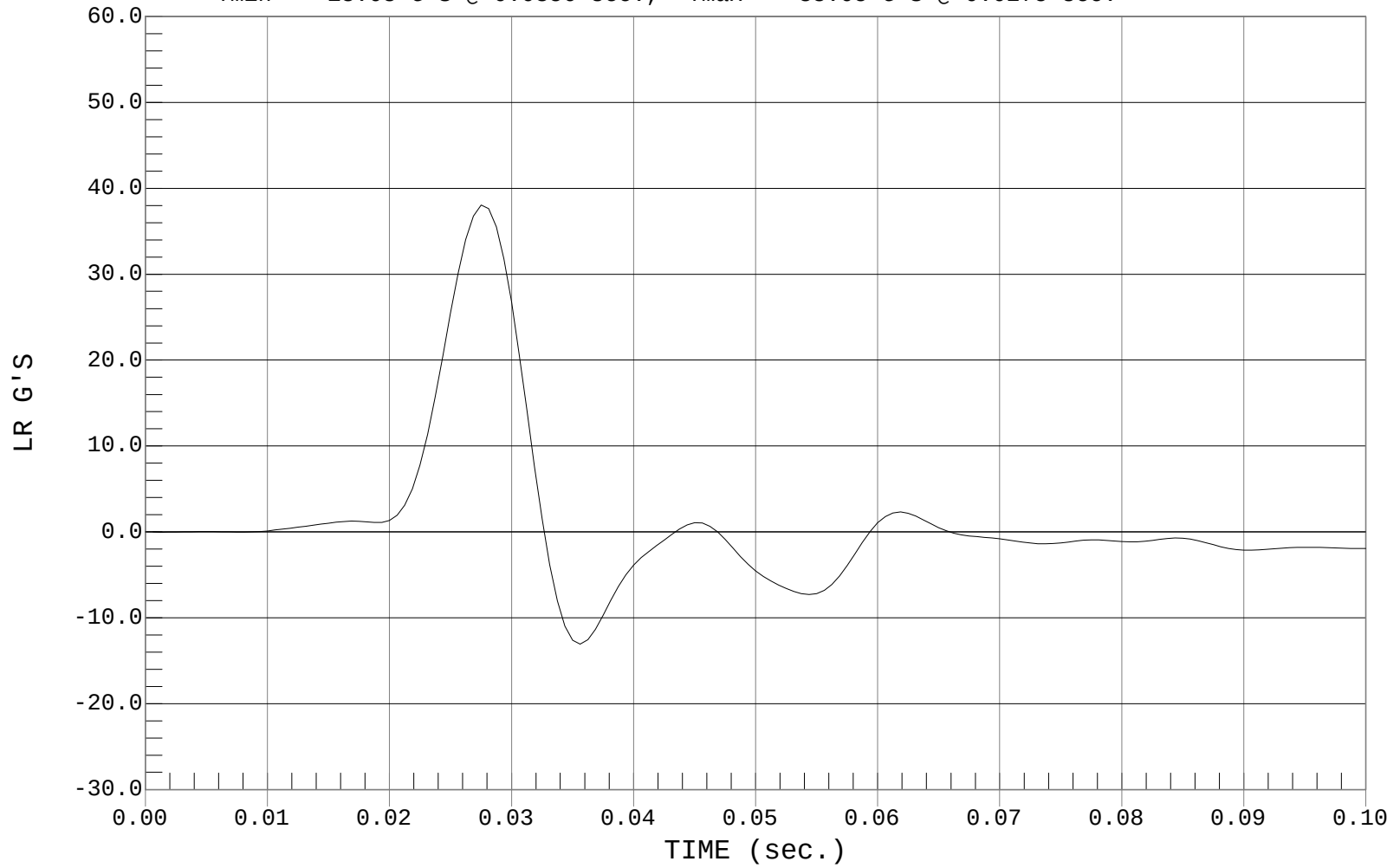
LOWER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #269

Test Date: 07-26-01
Speed: 14.11 FT/SEC, 4.30 M/SEC

— 1 LR, D01092FI.R09

Ymin = -13.08 G'S @ 0.0356 sec., Ymax = 38.05 G'S @ 0.0275 sec.





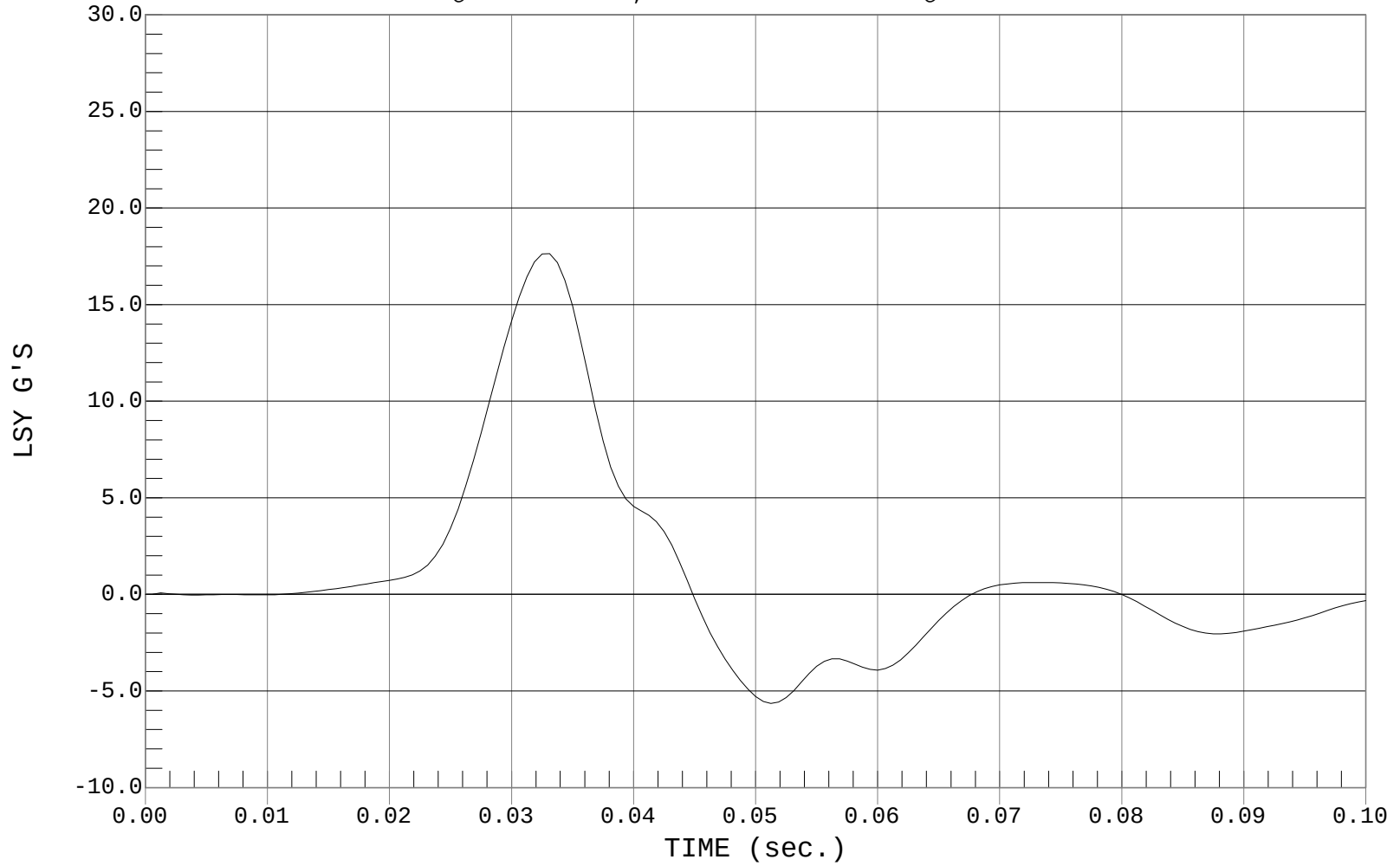
LOWER SPINE ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #269

Test Date: 07-26-01
Speed: 14.11 FT/SEC, 4.30 M/SEC

— 1 LSY, D01092FI.R10

Ymin = -5.64 G'S @ 0.0513 sec., Ymax = 17.64 G'S @ 0.0331 sec.



SID Calibration Data Sheet
Side Impact Dummy
Pelvis Impact Calibration

ATD Serial No.: 269

Test I.D.: D011093

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Probe Speed	m/s	4.27 – 4.33	4.30	Pass
Pelvis Acceleration	G's	40 - 60	47	Pass
Overall Test Results			Pass	

Laboratory Technician

7/26/01

Test Date

Approved By



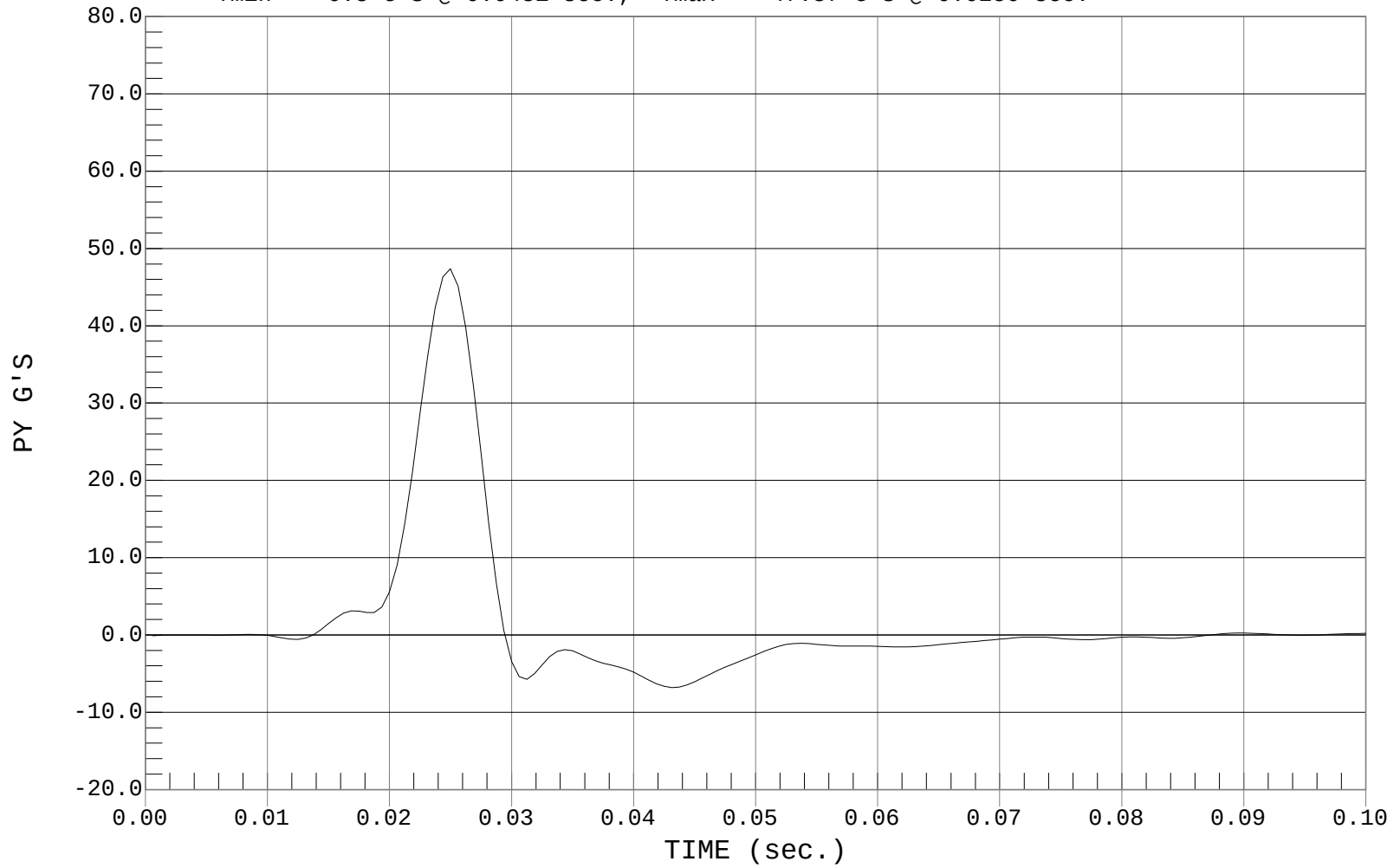
PELVIS ACCELERATION

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #269

Test Date: 07-26-01
Speed: 14.12 FT/SEC, 4.30 M/SEC

— 1 PY, D01093FI.R11

Ymin = -6.8 G'S @ 0.0431 sec., Ymax = 47.37 G'S @ 0.0250 sec.



SID Calibration Data Sheet
Side Impact Dummy
Abdominal Compression Calibration (Preload = 10 lbs)

ATD Serial No.: 269

Test I.D.: D011094

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Force @ 12.7	mm	104 – 162	132	Pass
Force @ 19	mm	163 – 222	186	Pass
Force @ 25.4	mm	222 – 280	250	Pass
Force @ 33	mm	325 - 391	343	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01
Test Date

Approved By



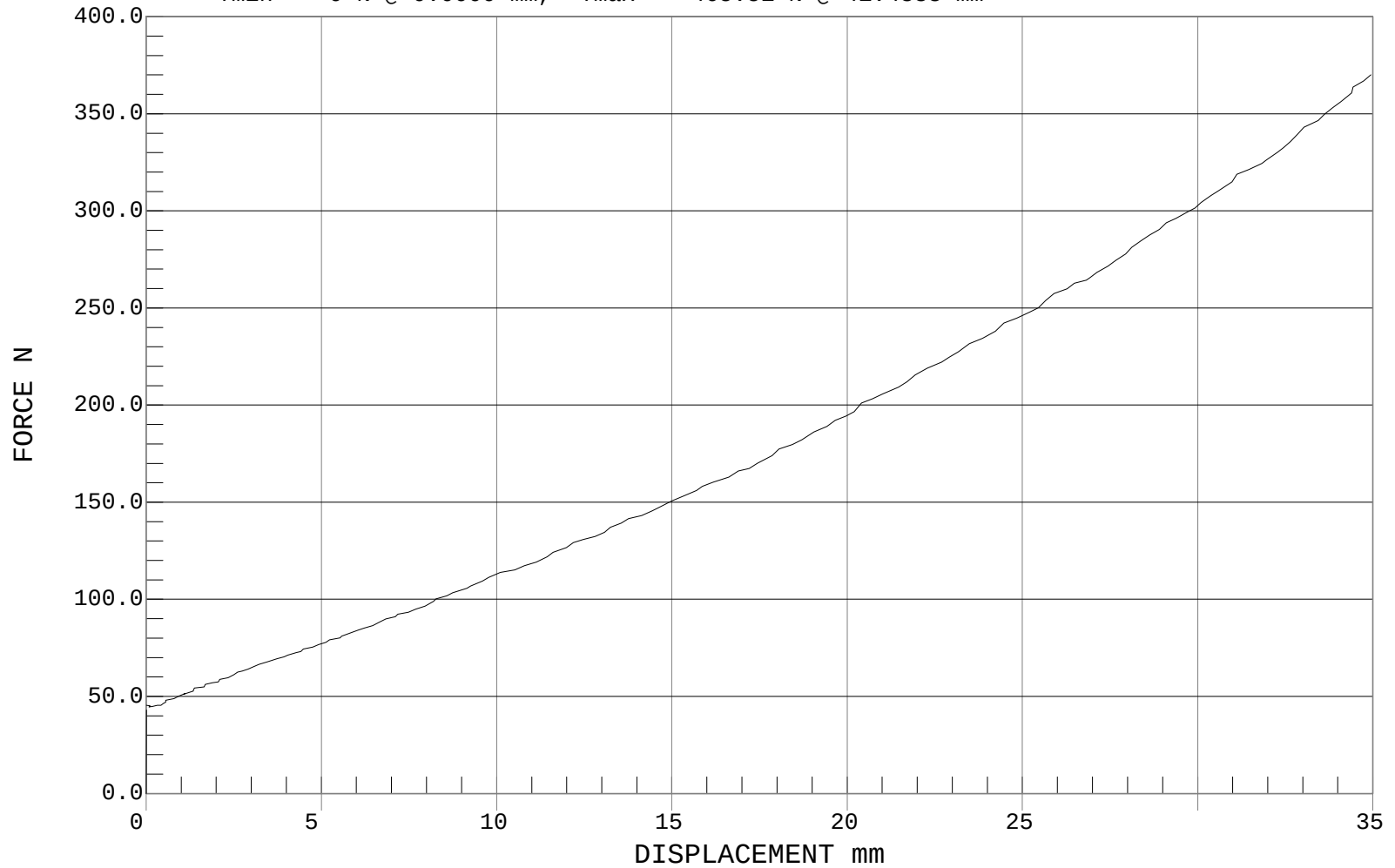
ABDOMEN COMPRESSION

Test Desc.: DUMMY CALIBRATION - ABDOMEN COMPRESSION
Component: DUMMY # 269

Test Date: 07-26-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 FORCE, D01094FC.F16

Ymin = 0 N @ 0.0000 mm, Ymax = 465.51 N @ 41.4888 mm



SID Calibration Data Sheet
Side Impact Dummy
Lumbar Flexion Calibration

ATD Serial No.: 269

Test I.D.: D011095

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Force @ 0	mm	0 – 26.7	0	Pass
Force @ 20	mm	97.9 – 151.2	100.6	Pass
Force @ 30	mm	151.2 – 204.6	152.5	Pass
Force @ 40	mm	204.6 – 258.0	208.3	Pass
Return Angle	Degrees	12 Maximum	4	Pass
Overall Test Results				Pass

Laboratory Technician

7/25/01
Test Date

Approved By



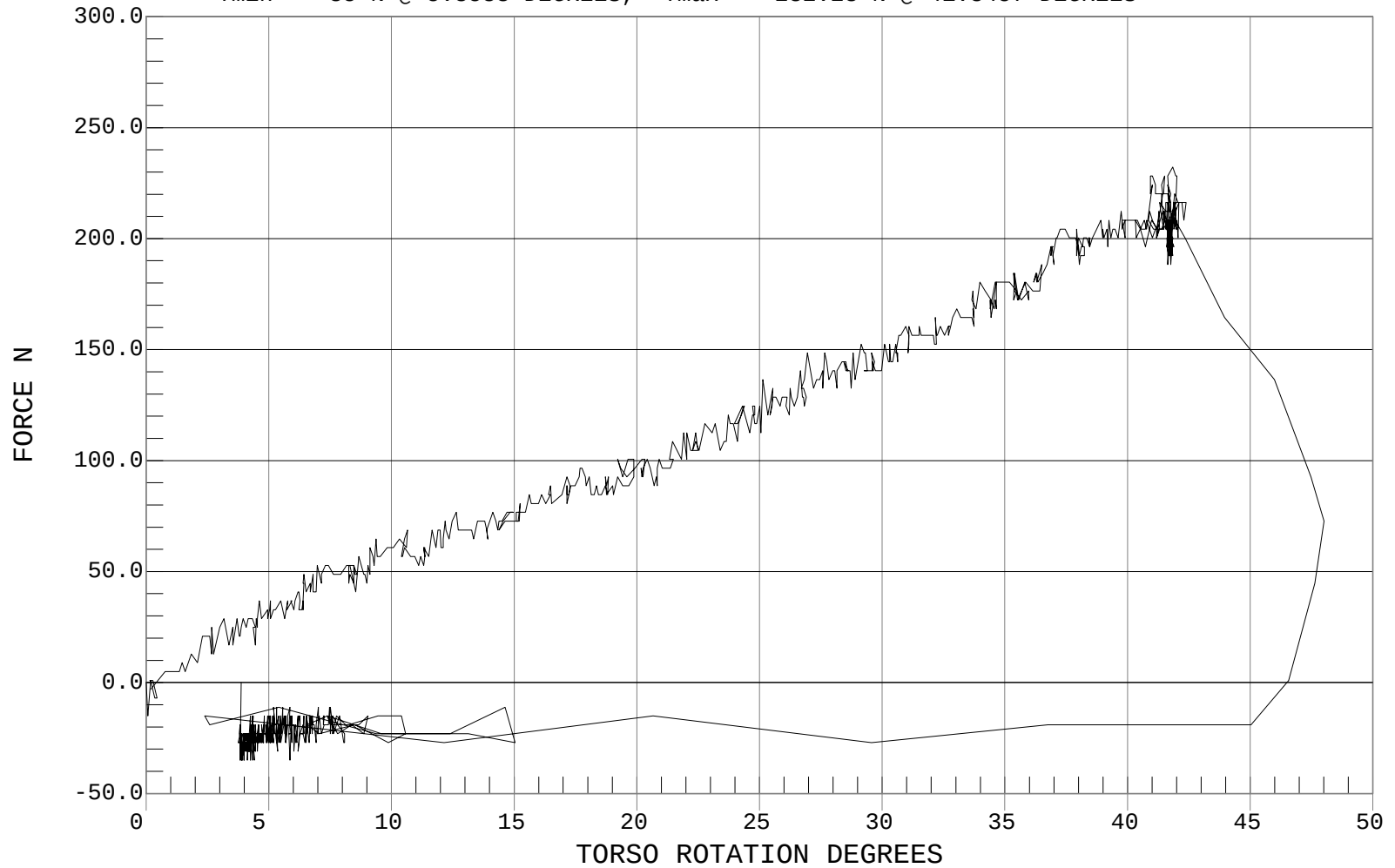
LUMBAR FLEXION

Test Desc.: DUMMY CALIBRATION - LUMBAR FLEXION
Component: DUMMY # 269

Test Date: 07-25-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 FORCE, D01095FC.F14

Ymin = -35 N @ 5.8583 DEGREES, Ymax = 232.23 N @ 41.8457 DEGREES



SID Calibration Data Sheet
Side Impact Dummy
Inspection Checklist

ATD Serial No.: 269

Test Part	Items Checked	Result
Skin	Visual inspection	Pass
Head	Visual, ballast, accelerometer mount	Pass
Neck	Visual	Pass
Spine Box	Visual, ballast, weldment, accelerometer mount	Pass
Rib Cage	Visual, measure	Pass
Sternum	Visual	Pass
Lumbar Spine	Visual	Pass
Abdomen	Visual	Pass
Pelvis	Visual, palpate, accelerometer mount	Pass
Upper Legs	Visual	Pass
Knees	Visual	Pass
Lower Legs	Visual, range of motion	Pass
Ankles	Visual, range of motion	Pass
Feet	Visual, range of motion	Pass
Joints	1 to 2 g range	Pass
Other		Pass

Notes (include component/problem/section/reason):

Laboratory Technician

7/26/01

Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
External Measurements

ATD Serial No.: 270

Test Number: D01110

Tested Parameter	Units	Specification	Result	Pass/Fail
SH – Seated Height	mm	889 - 909	903	Pass
RH – Rib Height	mm	501 – 521	515	Pass
HP – Hip Pivot Height	mm	99 ref.	99	Pass
RD-Rib from Back Line	mm	229 – 241	236	Pass
KV – Knee Pivot from Back Line	mm	511 – 526	516	Pass
SW – Knee Pivot to Floor	mm	490 – 505	494	Pass
HW – Hip Width	mm	356 – 391	371	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01
Test Date

Approved By

SID Calibration Data Sheet
Side Impact Dummy
Head Drop Calibration

ATD Serial No.: 270

Test I.D.: D011101

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Peak Resultant Acceleration	G's	210 to 260	222	Pass
Peak Lateral Acceleration	G's	< 10	2	Pass
Time Above 100 G	msec	0.9 – 1.5	1.1	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01

Test Date

Approved By



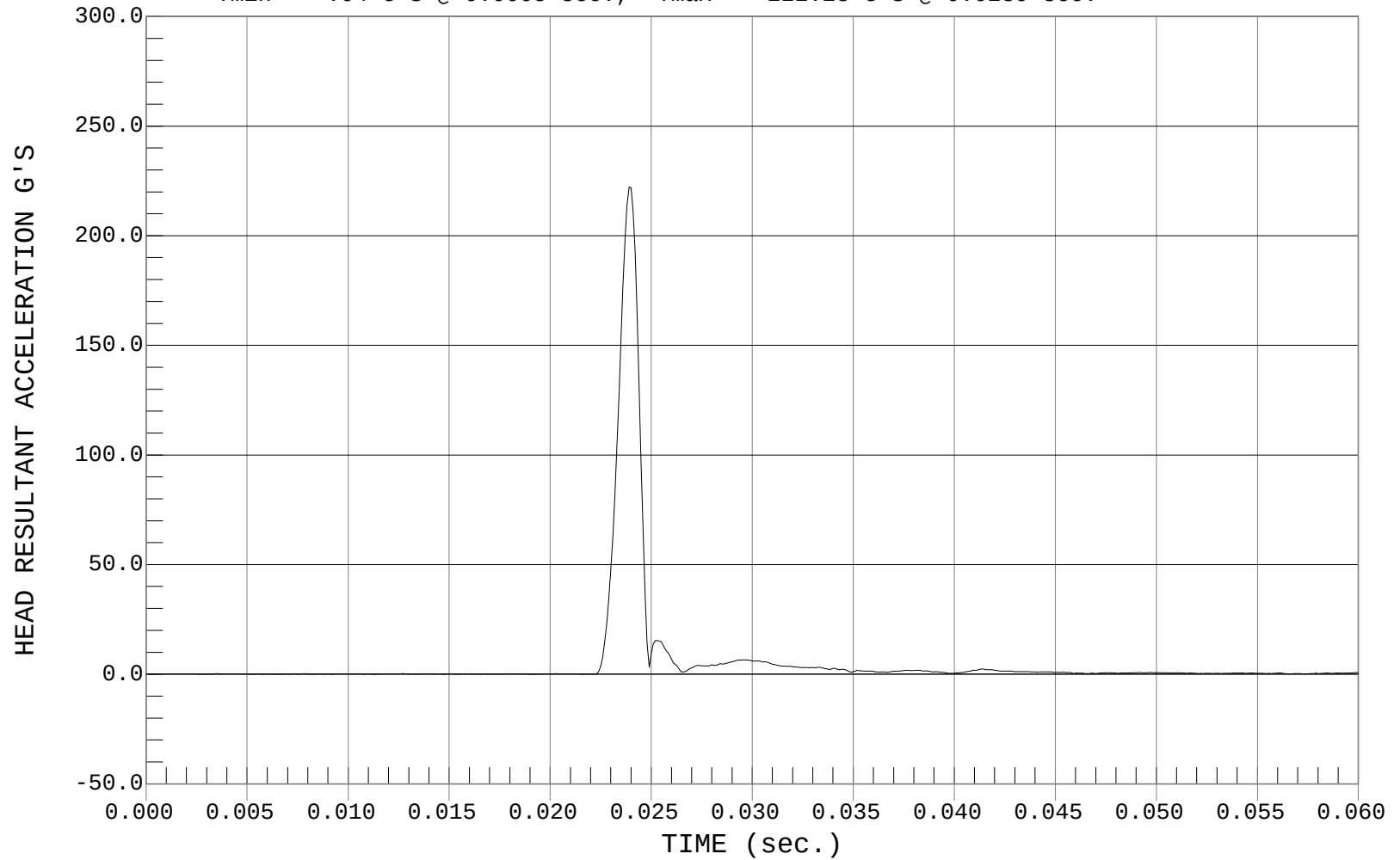
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #270

Test Date: 07-26-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01101av.a01

Ymin = .04 G'S @ 0.0005 sec., Ymax = 222.23 G'S @ 0.0239 sec.





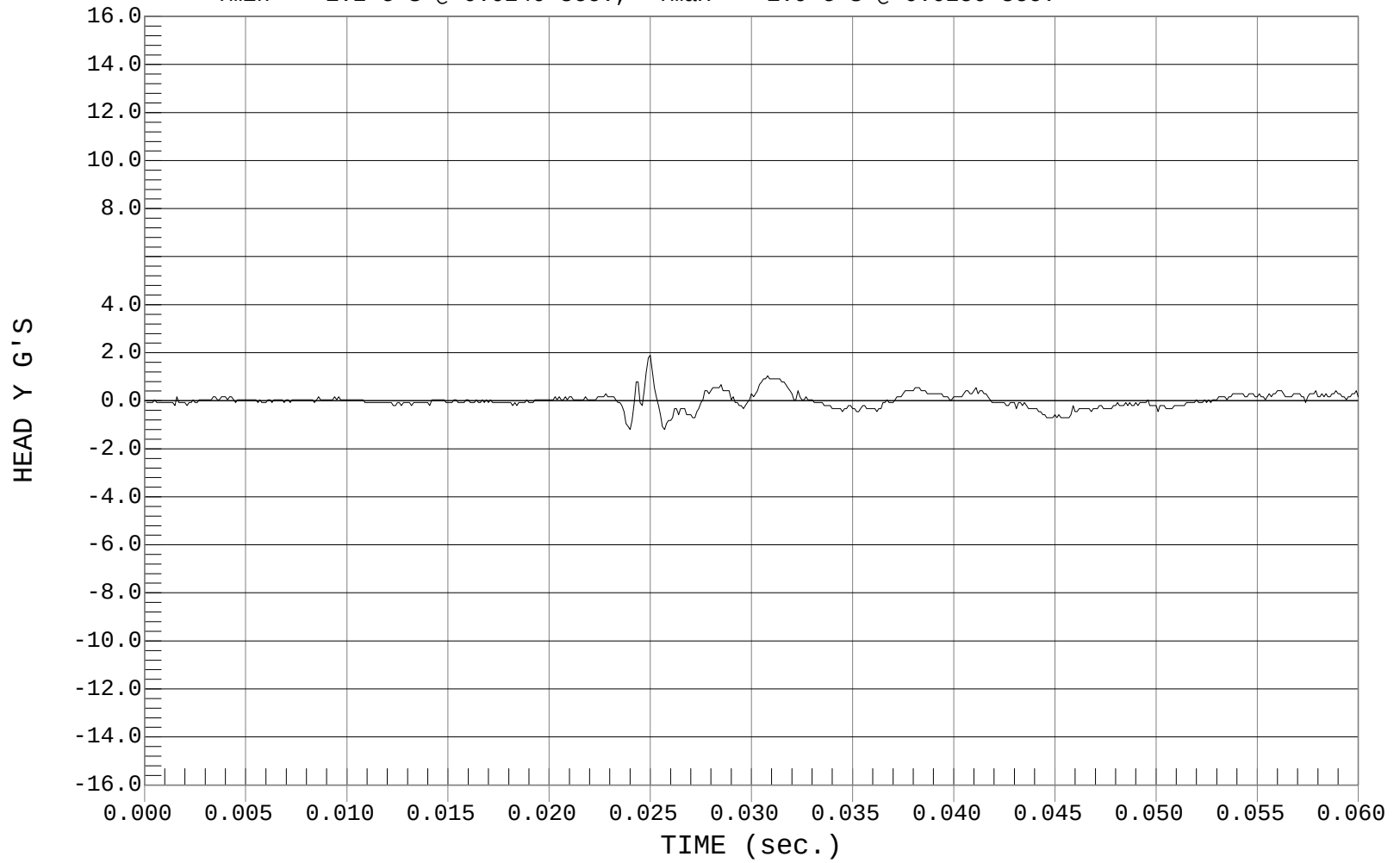
PEAK LATERAL ACCELARATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #270

Test Date: 07-26-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD Y, D01101AR.A02

Ymin = -1.2 G'S @ 0.0240 sec., Ymax = 1.9 G'S @ 0.0250 sec.



SID Calibration Data Sheet
Side Impact Dummy
Thorax Impact Calibration

ATD Serial No.: 270

Test I.D.: D011102

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Probe Velocity	m/s	4.27 – 4.33	4.30	Pass
Upper Rib	G's	37 – 46	39	Pass
Lower Rib	G's	37 – 46	38	Pass
Lower Spine	G's	15 - 22	18	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01

Test Date

Approved By



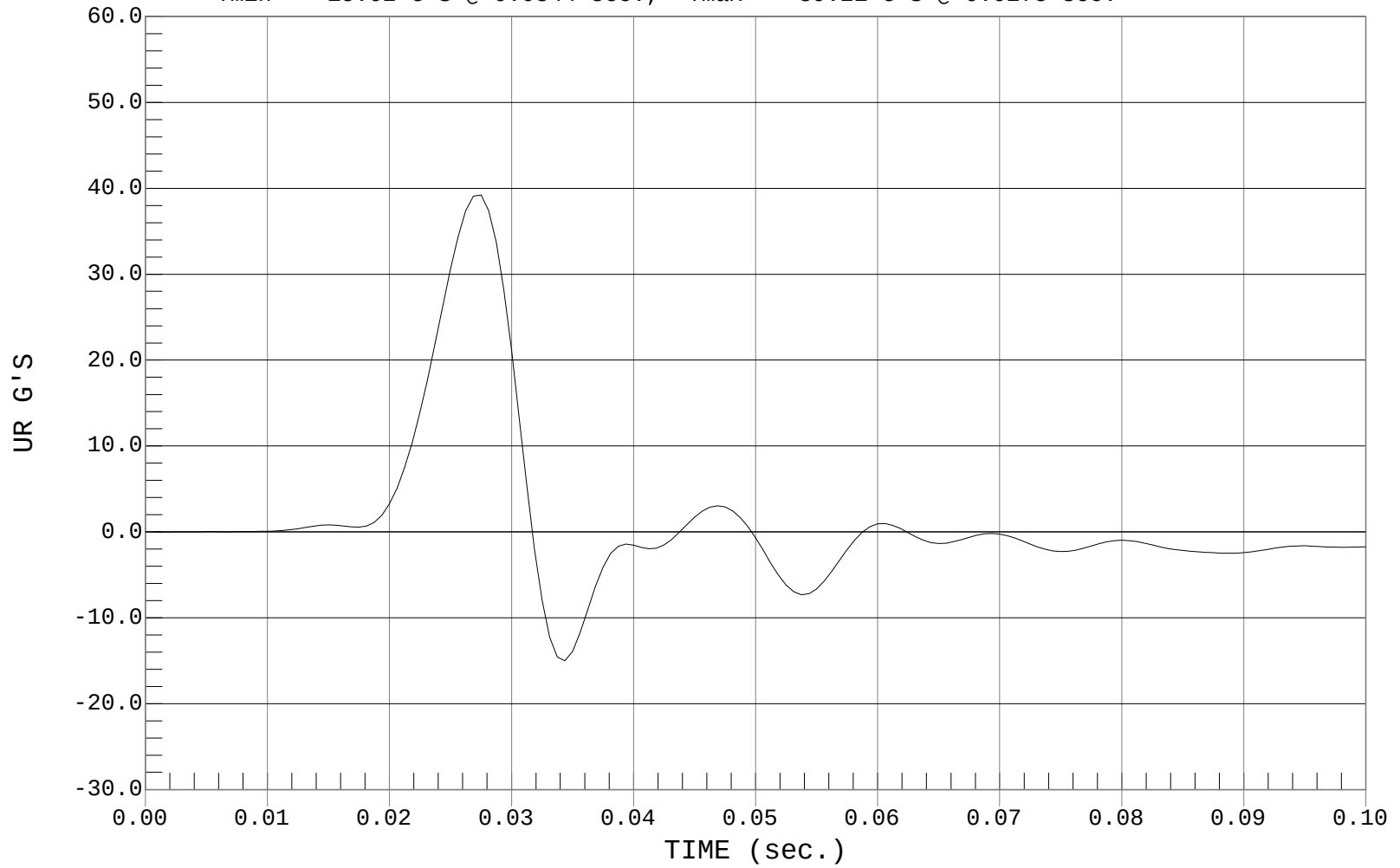
UPPER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #270

Test Date: 07-26-01
Speed: 14.10 FT/SEC, 4.30 M/SEC

— 1 UR, D01102FI.R08

Ymin = -15.02 G'S @ 0.0344 sec., Ymax = 39.21 G'S @ 0.0275 sec.





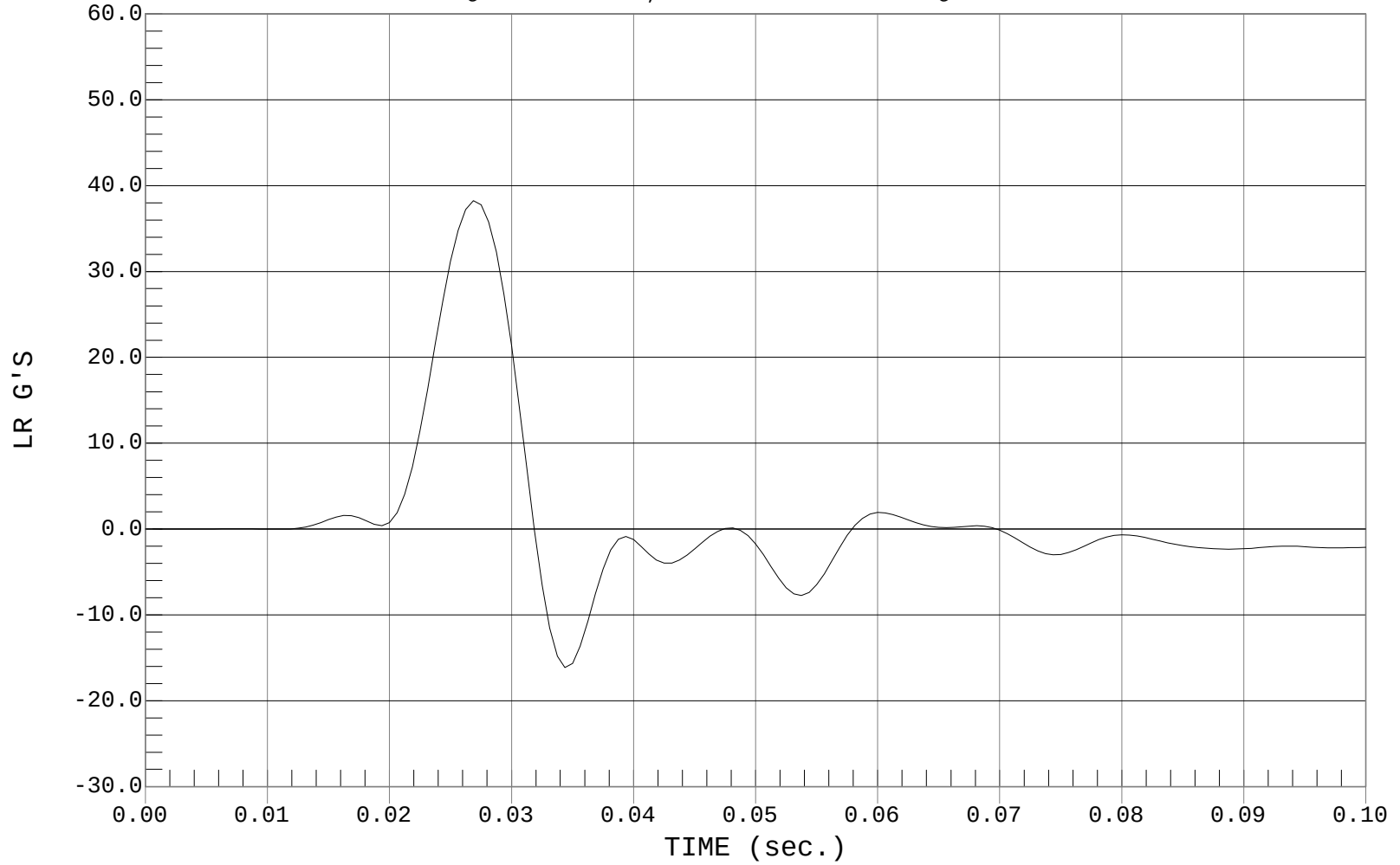
LOWER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #270

Test Date: 07-26-01
Speed: 14.10 FT/SEC, 4.30 M/SEC

— 1 LR, D01102FI.R09

Ymin = -16.14 G'S @ 0.0344 sec., Ymax = 38.26 G'S @ 0.0269 sec.





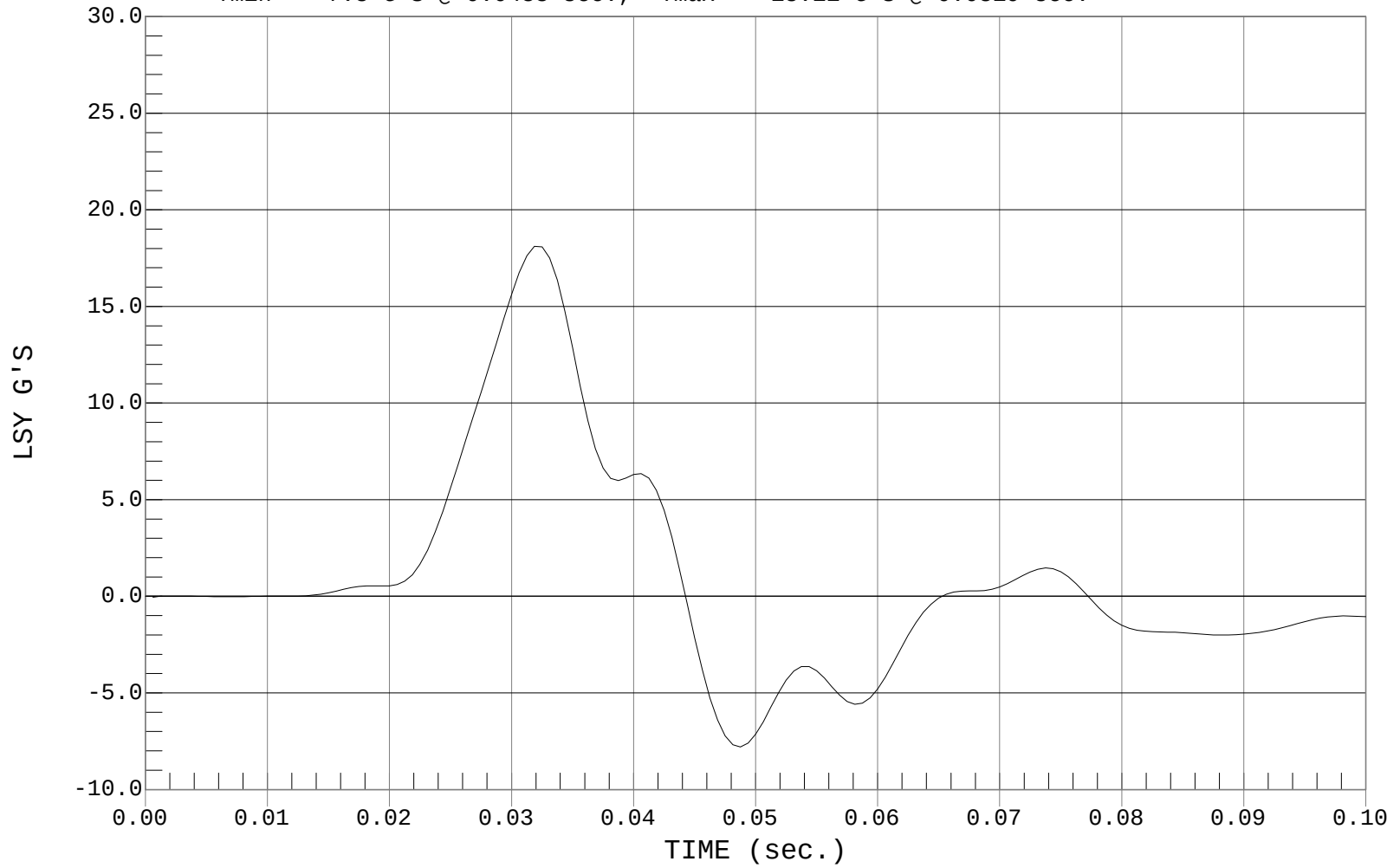
LOWER SPINE ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #270

Test Date: 07-26-01
Speed: 14.10 FT/SEC, 4.30 M/SEC

— 1 LSY, D01102FI.R10

Ymin = -7.8 G'S @ 0.0488 sec., Ymax = 18.11 G'S @ 0.0319 sec.



SID Calibration Data Sheet
Side Impact Dummy
Pelvis Impact Calibration

ATD Serial No.: 270

Test I.D.: D011103

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	54	Pass
Probe Speed	m/s	4.27 – 4.33	4.30	Pass
Pelvis Acceleration	G's	40 - 60	42	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01

Test Date

Approved By



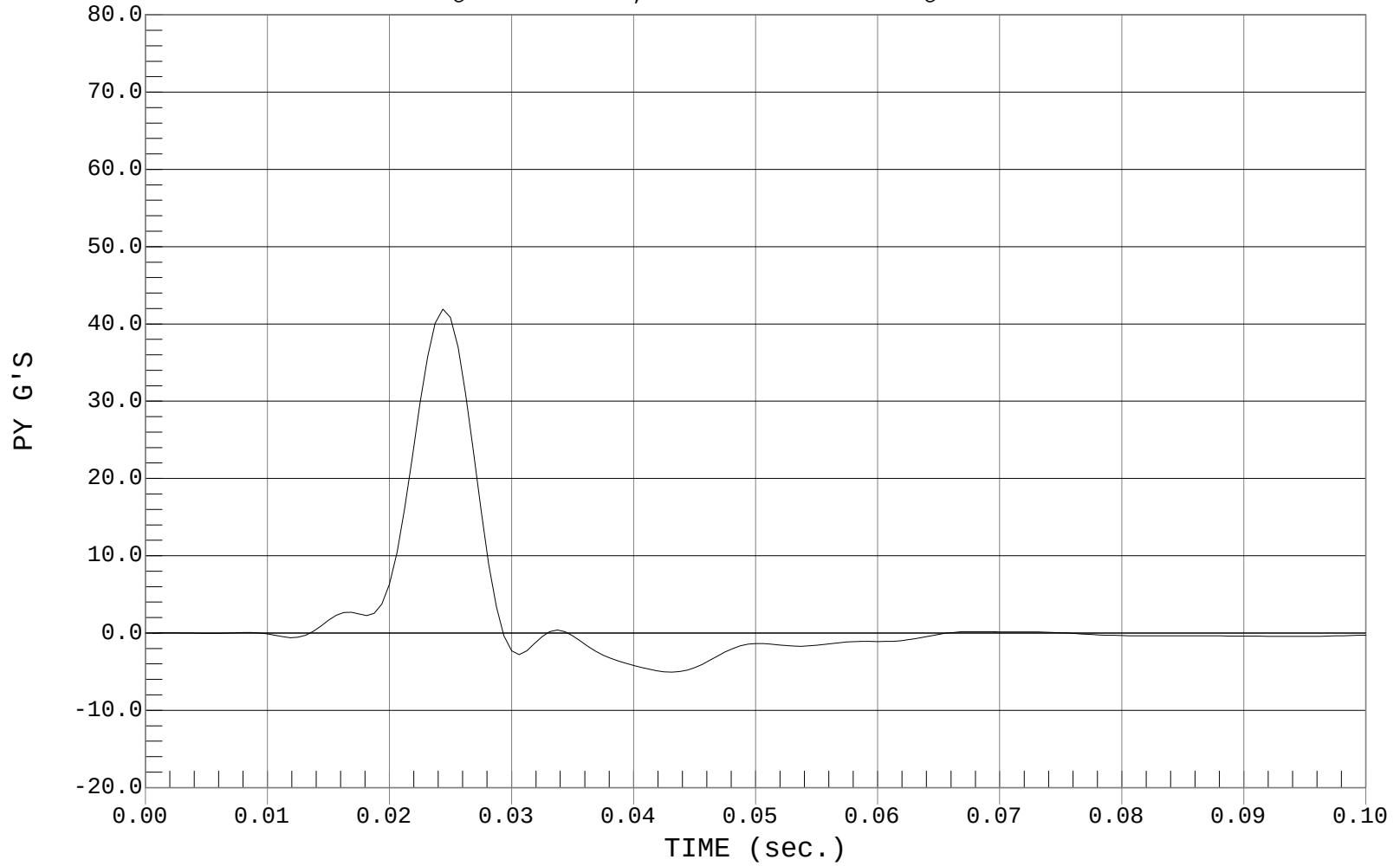
PELVIS ACCELERATION

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #270

Test Date: 07-26-01
Speed: 14.11 FT/SEC, 4.30 M/SEC

— 1 PY, D01103FI.R11

Ymin = -5.06 G'S @ 0.0431 sec., Ymax = 41.92 G'S @ 0.0244 sec.



SID Calibration Data Sheet
Side Impact Dummy
Abdominal Compression Calibration (Preload = 10 lbs)

ATD Serial No.: 270

Test I.D.: D011104

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	52	Pass
Force @ 12.7	mm	104 – 162	144	Pass
Force @ 19	mm	163 – 222	196	Pass
Force @ 25.4	mm	222 – 280	254	Pass
Force @ 33	mm	325 – 391	341	Pass
Overall Test Results				Pass

Laboratory Technician

7/26/01
Test Date

Approved By



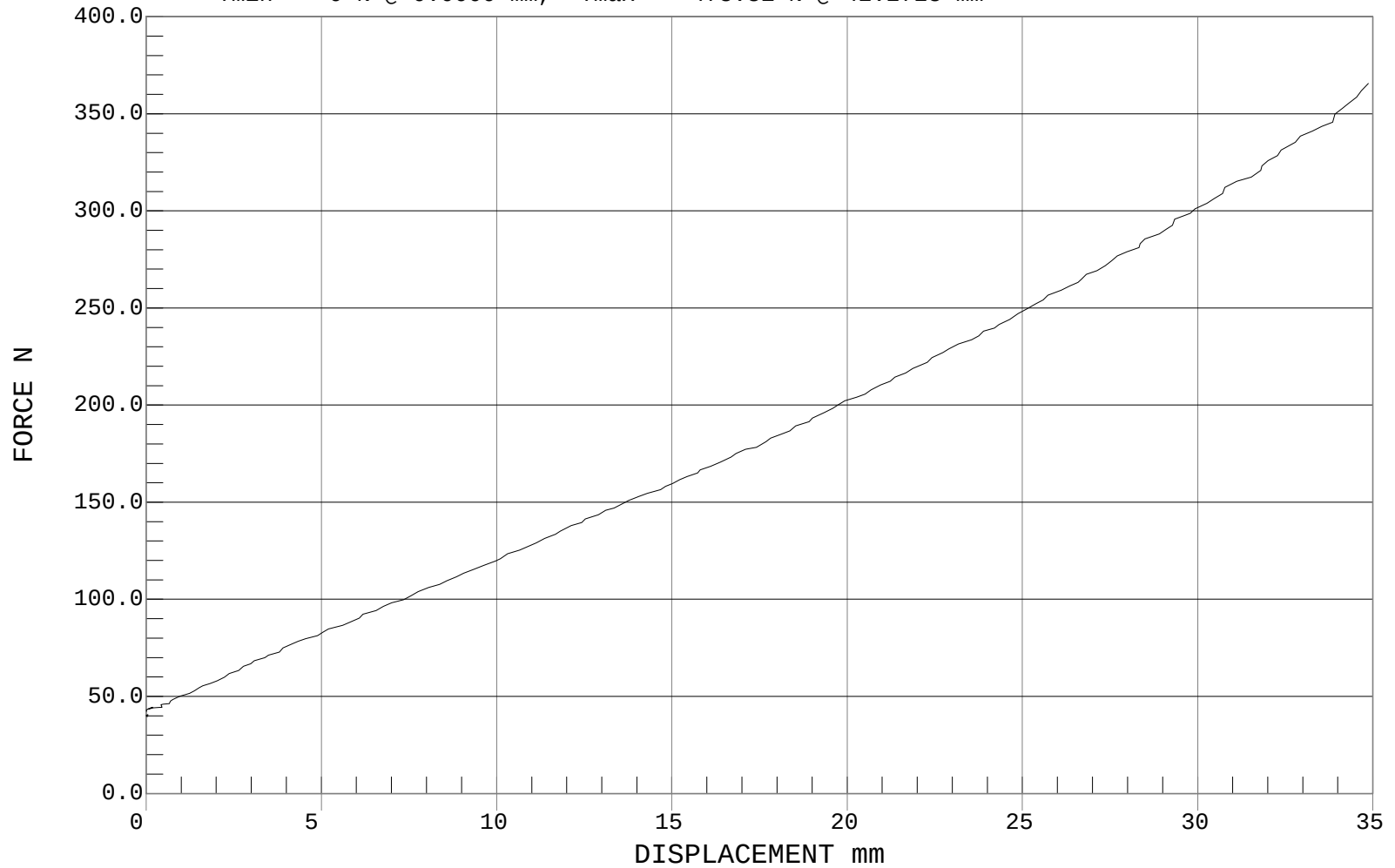
ABDOMEN COMPRESSION

Test Desc.: DUMMY CALIBRATION - ABDOMEN COMPRESSION
Component: DUMMY # 270

Test Date: 07-26-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 FORCE, D01104FC.F16

Ymin = 0 N @ 0.0000 mm, Ymax = 478.31 N @ 42.2728 mm



SID Calibration Data Sheet
Side Impact Dummy
Lumbar Flexion Calibration

ATD Serial No.: 270

Test I.D.: D011105

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 – 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	53	Pass
Force @ 0	mm	0 – 26.7	0	Pass
Force @ 20	mm	97.9 – 151.2	123.7	Pass
Force @ 30	mm	151.2 – 204.6	175.6	Pass
Force @ 40	mm	204.6 – 258.0	219.5	Pass
Return Angle	Degrees	12 Maximum	3	Pass
Overall Test Results				Pass

Laboratory Technician

7/25/01
Test Date

Approved By



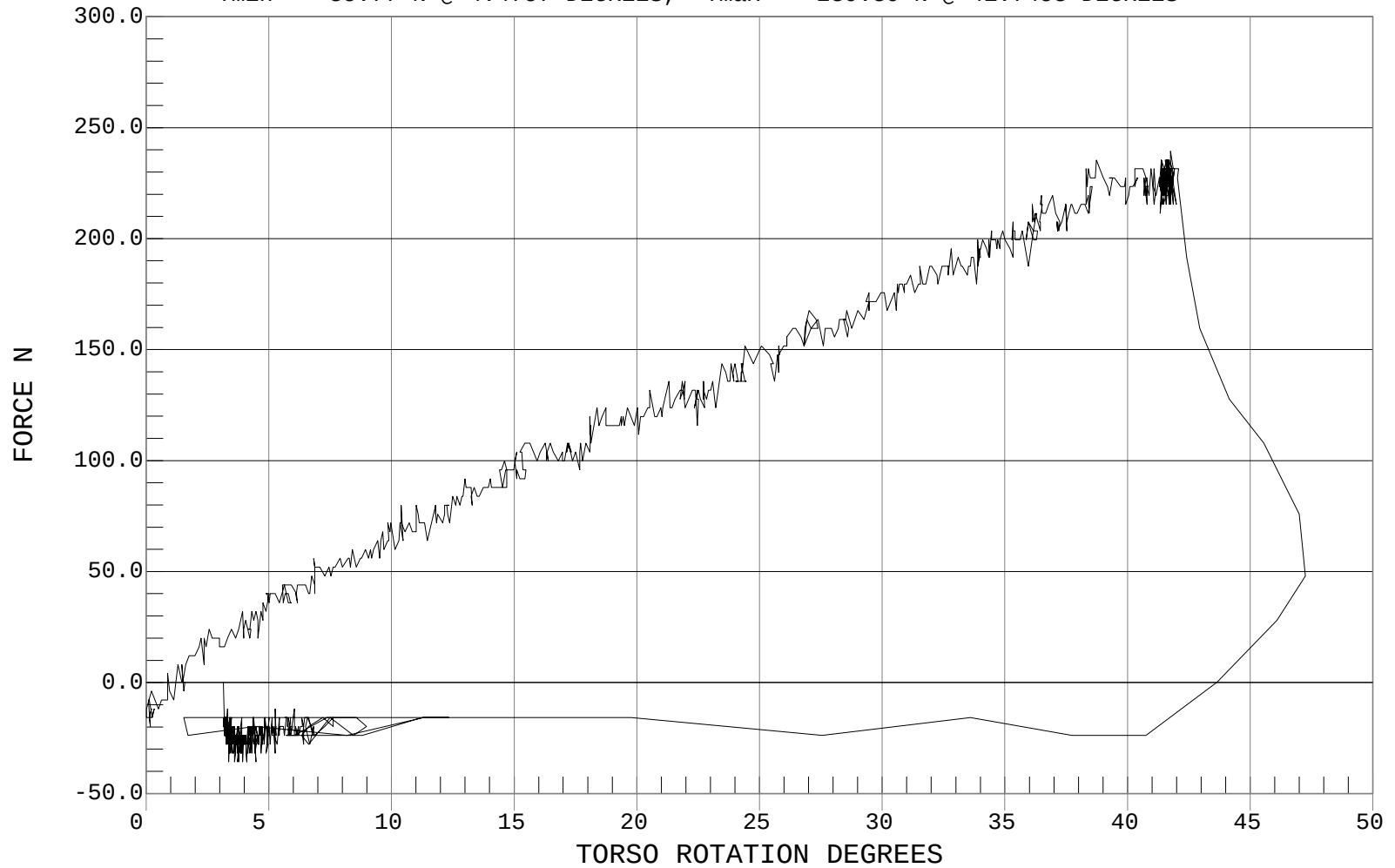
LUMBAR FLEXION

Test Desc.: DUMMY CALIBRATION - LUMBAR FLEXION
Component: DUMMY # 270

Test Date: 07-25-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 FORCE, D01105FC.F14

Ymin = -35.77 N @ 4.4757 DEGREES, Ymax = 239.39 N @ 41.7453 DEGREES



SID Calibration Data Sheet
Side Impact Dummy
Inspection Checklist

ATD Serial No.: 270

Test Part	Items Checked	Result
Skin	Visual inspection	Pass
Head	Visual, ballast, accelerometer mount	Pass
Neck	Visual	Pass
Spine Box	Visual, ballast, weldment, accelerometer mount	Pass
Rib Cage	Visual, measure	Pass
Sternum	Visual	Pass
Lumbar Spine	Visual	Pass
Abdomen	Visual	Pass
Pelvis	Visual, palpate, accelerometer mount	Pass
Upper Legs	Visual	Pass
Knees	Visual	Pass
Lower Legs	Visual, range of motion	Pass
Ankles	Visual, range of motion	Pass
Feet	Visual, range of motion	Pass
Joints	1 to 2 g range	Pass
Other		Pass

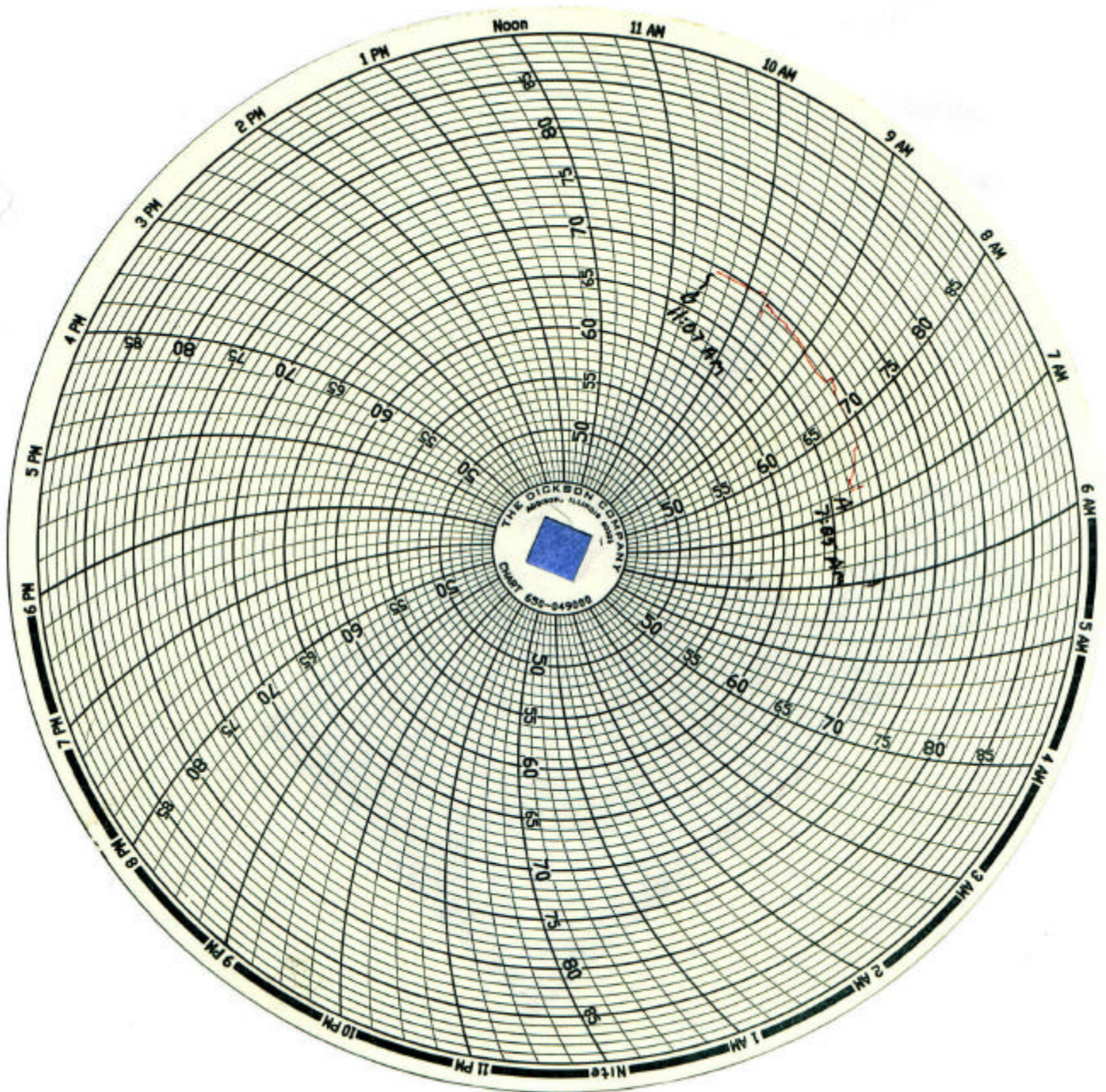
Notes (include component/problem/section/reason):

Laboratory Technician

7/26/01
Test Date

Approved By

VEHICLE AND DUMMY TEMPERATURE



APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

DUMMY AND VEHICLE CALIBRATION DATA

	INSTRUMENTS FOR DRIVER DUMMY NO. 269		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	J13943	Endevco	6/13/01
Lower Rib Y	J11046	Endevco	6/13/01
Lower Spine Y	AP1Y8	Endevco	7/9/01
Pelvis Y	J11166	Endevco	6/1/01
Upper Rib Redundant Y	J13422	Endevco	6/13/01
Lower Rib Redundant Y	J11784	Endevco	6/13/01
Lower Spine Redundant Y	AMT78	Endevco	7/9/01
Pelvis Redundant Y	J11630	Endevco	6/1/01
Head Center of Gravity X	J14006	Endevco	3/20/01
Head Center of Gravity Y	J13628	Endevco	3/20/01
Head Center of Gravity Z	J13652	Endevco	3/20/01

	INSTRUMENTS FOR PASSENGER DUMMY NO. 270		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	AKAC4	Endevco	7/3/01
Lower Rib Y	AGP53	Endevco	7/9/01
Lower Spine Y	AN8M6	Endevco	7/9/01
Pelvis Y	AP138	Endevco	7/9/01
Upper Rib Redundant Y	J13642	Endevco	7/3/01
Lower Rib Redundant Y	AHTC3	Endevco	7/9/01
Lower Spine Redundant Y	AN8P9	Endevco	7/9/01
Pelvis Redundant Y	AP0G2	Endevco	7/9/01
Head Center of Gravity X	AP2D6	Endevco	5/31/01
Head Center of Gravity Y	J11548	Endevco	5/31/01
Head Center of Gravity Z	J10866	Endevco	5/31/01

VEHICLE INSTRUMENT CALIBRATION

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Moving Barrier CG X	E03-H14	Entran	6/7/01
Moving Barrier CG Y	D11-F03	Entran	5/30/01
Moving Barrier CG Z	D11-F05	Entran	5/30/01
Moving Barrier Rear Axle X	F04-N15	Entran	6/25/01
Moving Barrier Rear Axle Y	F04-N06	Entran	6/22/01
Left Mid A-Post Y	G13-F01	Entran	2/7/01
Left Lower A-Post Y	L15-G21	Entran	6/25/01
Left Mid B-Post Y	D11-F02	Entran	5/30/01
Left Lower B-Post Y	E03-H23	Entran	6/7/01
Rear Floorpan Above Axle X	K11-G07	Entran	3/21/01
Rear Floorpan Above Axle Y	G13-F12	Entran	2/7/01
Rear Floorpan Above Axle Z	A08-A13	Entran	2/8/01
Driver Seat Track Y	F04-N05	Entran	6/22/01
Right Side Sill at Front Seat X	A08-A12	Entran	2/8/01
Right Side Sill at Front Seat Y	A08-A11	Entran	2/8/01
Right Side Sill at Front Seat Z	A08-A10	Entran	2/7/01
Right Side Sill at Rear Seat X	I18-E14	Entran	5/25/01
Right Side Sill at Rear Seat Y	F12-G03	Entran	5/25/01
Right Side Sill at Rear Seat Z	E10-F20	Entran	5/25/01
Left Side Sill at Front Seat Y	K16-X06	Entran	3/21/01
Left Side Sill at Rear Seat Y	MGA045	Entran	3/21/01
Right Rear Occupant Compartment Y	E03-H13	Entran	6/6/01
Vehicle CG X	G13-F18	Entran	4/4/01
Vehicle CG Y	G13-F16	Entran	4/4/01
Vehicle CG Z	G13-F03	Entran	4/4/01
Left Front Door on Centerline	F04-N07	Entran	6/22/01
Midrear of Left Front Door	I25-F10	Entran	6/11/01
Left Front Door Upper Centerline	I25-F01	Entran	6/19/01
Midrear of Left Rear Door	I25-J06	Entran	2/7/01
Left Rear Door Upper Centerline	G01-J11	Entran	6/19/01

Note: All Endevco accelerometers are Model No. 7264-2000

All Entran accelerometers are Model No. EGE-72