REPORT NUMBER: 214D-MGA-2001-013

TESTING FOR FMVSS 214
SIDE IMPACT PROTECTION

Ford Motor Company
1995 Ford Escort LX 4 door
NHTSA NUMBER: PS0200

PREPARED BY:
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May 3, 2001

FINAL REPORT

PREPARED FOR:
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NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF VEHICLE SAFETY COMPLIANCE
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Date of Acceptance

Technical Report Documentation Page

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16. Abstract

A 48/24 km/h 90° Moving Deformable Barrier Test was conducted on the subject vehicle in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-214D-05 Side Impact Protection for determination of FMVSS No. 214 Side Impact Protection. The test was conducted at MGA Research Corporation, in Burlington, Wisconsin, on May 3, 2001.

The impact velocity of the Moving Deformable Barrier (MDB) was 53.1 kph, and the ambient temperature at the struck (passenger's side) of the vehicle was 21°C. The target vehicle's maximum post test static crush was 329 mm at level 3. The test vehicle's occupant performance is as follows:

	RIGHT FRONT	RIGHT REAR
Right Upper Rib (RUR) Accel., g	56	69
Right Lower Rib (RLR) Accel., g	64	76
Lower Spine (T_{12}) Accel., g	67	65
Thoracic Trauma Index (TTI)	66	70
Pelvis (PEV) Accel., g	87	100
HIC	248	1082

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.

17. Key Words FMVSS 214D Side Impact Protection Side Impact Dummy (SID)		*18. Distribution Statement* Copies of this report are available from: National Highway Traffic Safety Adm. Technical Ref. Division, Room 5108 (NAD-52) 400 Seventh Street, S.W. Washington, D.C. 20590	
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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 test program sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract No. DTNH22-97-C-11033. The purpose of this test was to evaluate side impact protection in a 1995 Ford Escort LX 4 door manufactured by Ford Motor Company.

1.2 TEST PROCEDURE

The side impact test was conducted in accordance with the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC), laboratory test procedure Side Impact Testing TP-214D-05, dated August 2, 1999 and the corresponding MGA Research Corporation Test Procedure MGA-NHTSA2. 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 1995 Ford Escort LX 4 door was impacted on the right 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 53.1 km/h. The specified impact velocity range is from 52.1 to 53.8 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 1315.8 kg and the test weight of the MDB was 1362.0 kg. The test was conducted at MGA Research Corporation in Burlington, Wisconsin, on May 3, 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 right front and right 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:

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

The test vehicle was instrumented with twenty (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 329 mm at level 3, 1200 mm rearward of the right vertical impact point. The front and rear passenger SID's, Serial Nos. 049 and 048 respectively, were calibrated just prior to this test. The SID's injury criteria is summarized as follows:

Measurements	Units	Right Front	Right Rear
Thoracic Trauma Index (TTI)	G's	66	70
Peak Pelvic G's (PEV)	G's	87	100
Head Injury Criteria (HIC)	none	248	1082

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 right front and right rear 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 following accelerometers were not used for this test:

Left Front Door on Centerline
Midrear of Left Front Door
Left Front Door Upper Centerline
Midrear of Left Rear door
Left Rear Door Upper Centerline
Rear Seat Track

The tire pressure was set to 252 KPA at all locations to more closely match the comparison vehicle.

Test vehicle attitude measurements were taken from the bottom of the wheel well to the ground.

SECTION 3

SIDE IMPACT DUMMY (SID) AND VEHICLE TEST DATA

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	Old 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	=(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: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

TEST VEHICLE INFORMATION

Make	Ford
Model	Escort LX
Body Style	4 door
NHTSA No.	PS0200
VIN	1FASP14JXSW265396
Color	Green
Delivery Date	4/5/01
Odometer Reading (mile)	106,998
Dealer	Roger's Auto Sales
Transmission	manual
Final Drive	front
Number of Cylinders	4
Engine Displacement (L)	1.9
Engine Placement	lateral

TEST VEHICLE OPTIONS

Front Airbags	yes
Side Airbags	no
Power Windows	yes
Power Steering	yes
Power Door Locks	yes
Tilt Wheel	yes
Air Conditioning	yes
Power Brakes	yes
Disc Brakes, Front	yes
Disc Brakes, Rear	no
Anti-lock Brakes	no
AM/FM/Cassette	yes
Anti-theft System	no
Cruise Control	yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Ford Motor Company
Date of Manufacture	3/95

GVWR (kg)	1568
GAWR Front (kg)	845
GAWR Rear (kg)	754

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	221	221
Cold Pressure (kPa)	221	221
Recommend Tire Size	P175/65R14	P175/65R14
Tire Size on Vehicle	P175/65R14	P175/65R14
Tire Manufacturer	Response	Response

Measured Parameter	Front	Rear	Third	Total
Type of Seats	bucket	bench		
Number of Occupants	2	3		5
Capacity Wt. (VCW) (kg)				376.5
Cargo Weight (RCLW) (kg)				36.3

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

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	346.1	212.7		367.4	259.9	
Right	kg	346.1	220.4		395.5	293.0	
Ratio	%	61.5	38.5		58.0	42.0	
Totals	kg	692.2	433.1	1125.3	762.9	552.9	1315.8

TARGET TEST WEIGHT CALCULATION*

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1125.3
Weight of 2 P572F Side Impact Dummies	kg	161.5
Rated Cargo/Luggage Weight (RCLW)	kg	36.3
Calculated Vehicle Target Weight (TVTW)	kg	1323.1

*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	638	636	613	615	959
As Tested	mm	630	620	601	586	1047
Fully Loaded	mm	635	615	600	576	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2492
Total Vehicle Length at Left Side	mm	3525
Total Vehicle Length at Centerline	mm	4347
Total Vehicle Length at Right Side	mm	3525
Weight of Ballast in Cargo Area	kg	0

TEST VEHICLE VERTICAL IMPACT LINE DATA

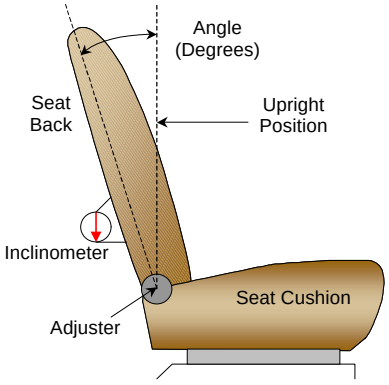
Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2492
Target Impact Point Aft of Front Axle	mm	306
Actual Impact Point Aft of Front Axle	mm	320

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001



FRONT SEAT ASSEMBLY

NORMAL DESIGN RIDING POSITION

Right front passenger seat back angle: 20 deg from vertical, 5th notch, 1st as 0

Right rear passenger seat back angle: non adjustable

SEAT FORE/AFT POSITIONS

Right front passenger seat fore/aft total travel: 23 seat positions

Right rear passenger seat fore/aft total travel: non adjustable

Right front passenger seat fore/aft position: 12th notch rearward, 1st as 1

Right rear passenger seat fore/aft position: non adjustable

SEAT BELT UPPER ANCHORAGE

The vehicle did not contain an adjustable seat belt anchorage.

STEERING COLUMN ADJUSTMENT

The steering column was set in the mid position.

DATA SHEET NO. 2

TEST VEHICLE SUMMARY OF RESULTS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	346.1	212.7		367.4	259.9	
Right	kg	346.1	220.4		395.5	293.0	
Weight Ratio	%	61.5	38.5		58.0	42.0	
Totals	kg	692.2	433.1	1125.3	762.9	552.9	1315.8

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	202	221
Level 2	Occupant H-Point	mm	311	434
Level 3	Mid Door	mm	329	550
Level 4	Window Sill	mm	252	809
Level 5	Window Top	mm	31	1271
N/A	Maximum Penetration	mm	329	550

INSTRUMENTATION

Right front passenger SID Accelerometers	11
Right rear passenger SID Accelerometers	11
Vehicle Structure Accelerometers	20
MDB Accelerometers	5
Total	47

DATA SHEET NO. 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 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	385.5	283.7	
Right	kg	398.8	293.5	
Ratio	%	57.6	42.4	
Totals	kg	784.3	577.2	1361.5

SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	52.1 to 53.8	53.1
Trap No. 2 Velocity (Redundant)	km/h	52.1 to 53.8	53.1
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90.2

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

Vertical Location			From Centerline		Max. Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	800	Right	102
B	Top of Bumper	533	800	Right	61
C	Mid Level	686	800	Right	94
D	Top of Stack	813	800	Right	126

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	2
High Speed Cameras	2

DATA SHEET NO. 4

POST TEST OBSERVATIONS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Right Front Passenger	Right Rear Passenger
Dummy Type / Serial No.	SID/049	SID/038
Head Contact	headrest	header, C post
Upper Torso Contact	door trim panel	door trim panel
Lower Torso Contact	door trim panel	door trim panel
Left Knee Contact	door trim panel	door trim panel
Right Knee Contact	left knee	left knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	remained closed	remained closed
Right Side Door Opening	remained closed	remained closed
Seat Movement	0	0
Seat Back Failure	none	none

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	no failures
Sill Separation	no separation
Windshield Damage	cracked
Window Damage	both right side windows broke
Other Notable Effects	none noted

AIRBAG DEPLOYMENT

	Driver	Right Front Passenger	Right Rear Passenger
Front	no	no	
Side			

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	14 rearward
Vertical Offset	mm	+/-20	2 up

SECTION 4

OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5

SID INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

THORAX AND PELVIS PEAK ACCELERATIONS (FIR 100 Filtered)

Location	Axis	Units	Right Front Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (RUR)	Y	G's	13.4	75	55.8	38	7.1	77	69.0	41
Upper Rib (RUR)	Y	G's	13.2	75	56.5	38	6.8	124	68.7	41
Lower Rib (RLR)	Y	G's	12.0	96	64.0	39	22.9	77	75.5	40
Lower Rib (RLR)	Y	G's	11.7	96	64.0	39	22.3	77	75.1	41
Lower Spine (T_{12})	Y	G's	11.9	92	67.4	37	33.5	70	65.0	42
Lower Spine (T_{12})	Y	G's	12.0	92	67.9	37	34.4	70	63.5	42
Pelvis (PEV)	Y	G's	8.2	92	86.9	31	14.9	73	99.5	34
Pelvis (PEV) (R)	Y	G's	8.1	98	87.3	31	14.9	74	99.7	34

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

Location	Right Front Passenger				Right Rear Passenger			
	RLR	T_{12}	TTI(g)	PEV(g)	RLR	T_{12}	TTI(g)	PEV(g)
Rib, Spine, and Pelvis	64.0	67.4	66	86.9	75.5	65.0	70	99.5
Rib, Spine, and Pelvis (R)	64.0	67.9	66	87.3	75.1	63.5	69	99.1

HEAD CG PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Right Front Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	12.2	41	14.6	108	21.3	188	11.4	59
Head CG	Y	G's	8.3	60	98.2	41	19.0	190	137.9	56
Head CG	Z	G's	21.1	69	25.2	48	23.5	42	42.2	61
Head CG		G's	99.5	41			140.8	56		

HEAD INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Right Front Passenger				Right Rear Passenger			
	HIC	T^1	T^2	Avg G's	HIC	T^1	T^2	Avg
Head CG	248	38.6	51.8	51.2	1082	52.8	60.6	114.0

Positive Acceleration Polarities: (Conforms to SAE J211)

Longitudinal (X) = Forward
Lateral (Y) = Right
Vertical (Z) = Down

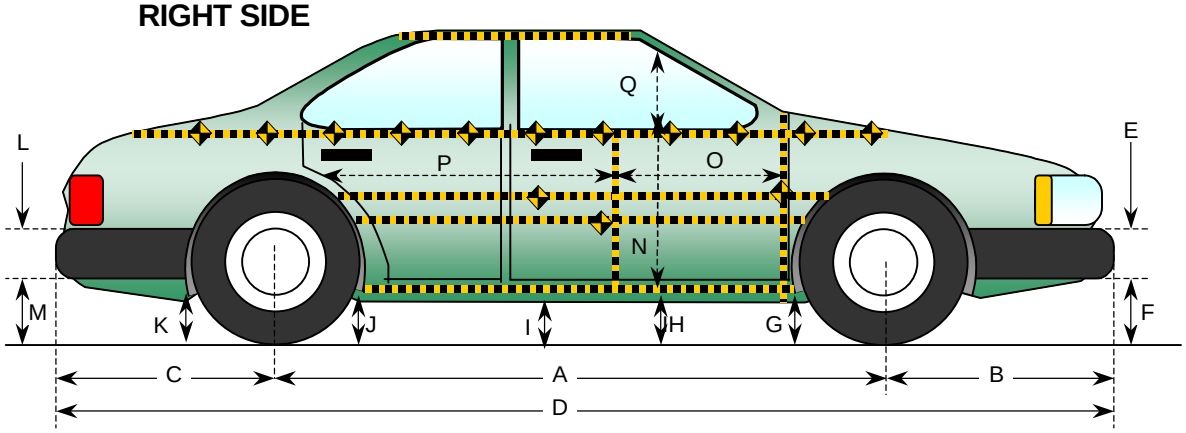
DATA SHEET NO. 6

VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

RIGHT SIDE



All Measurements in mm

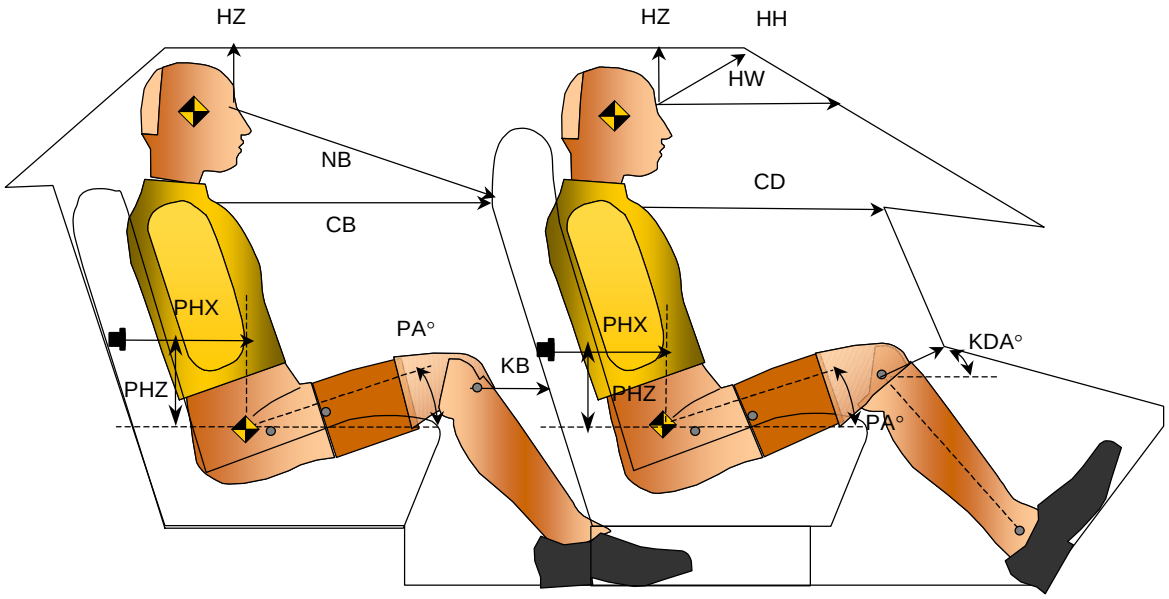
Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2492	2471	-21
B	Front Axle to FSOV	910	831	-79
C	Rear Axle to RSOV	945	1024	79
D	Total Length at Centerline	4347	4326	-21
E	Front Bumper Thickness	162	162	0
F	Front Bumper Bottom to Ground	352	354	2
G	Sill Height at Front Wheel Well	148	186	38
H	Sill Height at Front Door Leading Edge	154	189	35
I	Sill Height at "B" Pillar	148	186	38
J1	Sill Height at Rear Wheel Well	150	158	8
J2	Pinch Weld Height at Rear Wheel Well	154	170	16
K	Sill Height Aft of Rear Wheel Well	230	242	12
L	Rear Bumper Thickness	188	188	0
M	Rear Bumper Bottom to Ground	348	358	10
N	Sill Height to Window Bottom Sill	640	584	-56
O	Front Door Leading Edge to Impact CL	695	686	-9
P	Rear Door Trailing Edge to Impact CL	1192	1104	-88
Q	Front Window Opening	460	430	-30
R	Right Side Length	3525	3479	-46
S	Left Side Length	3525	3534	9
T	Vehicle Width at "B" Post	1806	1486	-320

DATA SHEET NO. 7

SID LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001



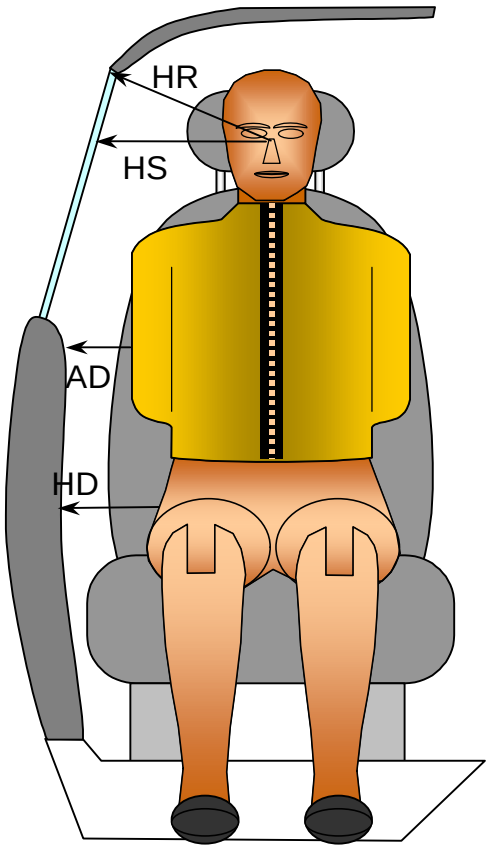
Driver Code	Pass. Code	Measurement Description	Right Front Passenger 049		Right Rear Passenger 048	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	469			
HW		Head to Windshield	607			
HZ	HZ	Head to Roof	162		182	
ND	NB	Nose to Dash/Nose to Seatback	624		475	
CD	CB	Chest to Dash or Seatback	624		424	
KDL	KBL	Left Knee to Dash or Seatback	144	24.5	151	27.5
KDR	KBR	Right Knee to Dash or Seatback	151	24.0	170	26.0
PA	PA	Pelvic Angle		24.5		23.6
PHX	PHX	H-Point to Striker (X-Axis)	186		266	
PHZ	PHZ	H-Point to Striker (Z-Axis)	82		298	

DATA SHEET NO. 8

SID LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001



FRONT VIEW OF DUMMY

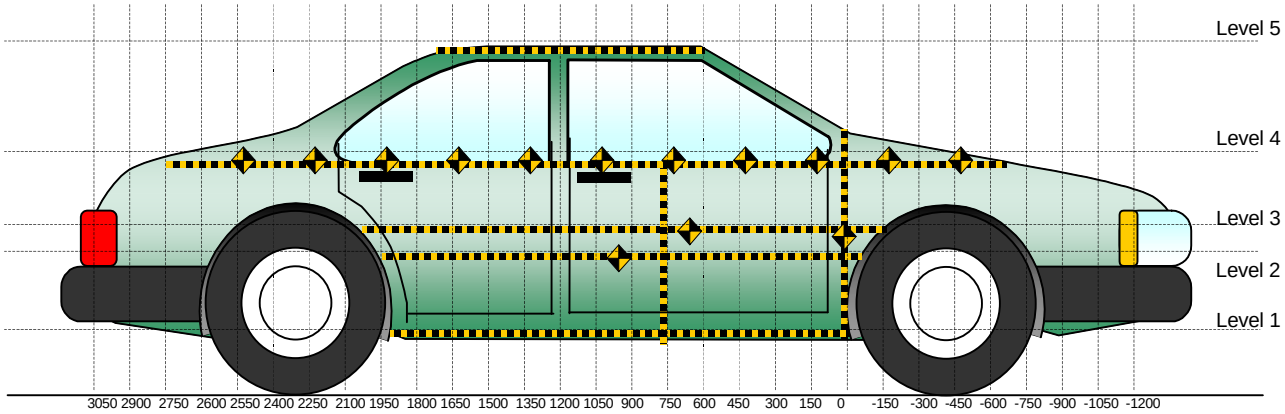
Code	Measurement Description	Units	Right Front 049	Right Rear 048
HR	Head to Side Header	mm	173	227
HS	Head to Side Window	mm	289	312
AD	Arm to Door	mm	99	129
HD	H-Point to Door	mm	155	172

DATA SHEET NO. 9

VEHICLE SIDE MEASUREMENTS

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001



All Measurements Shown in mm

RIGHT 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	1271
4	Window Sill	809
3	Mid Door	550
2	Occupant H-Point	434
1	Sill Top	221

DATA SHEET NO. 10

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900				450					445					-5	
-750			286	415				273	416				-13	1	
-600			263	385				290	384				27	-1	
-450				360					360					0	
-300				337					347					10	
-150				326					339					13	
0			232	313				384	334				152	21	
150	321	243	234	308		369	433	431	360		48	190	197	52	
300	319	243	234	308		432	506	541	429		113	263	307	121	
450	320	244	235	307		434	524	549	471		114	280	314	164	
600	320	244	235	308		438	534	548	478		118	290	313	170	
750	320	245	237	306	525	449	541	554	482	550	129	296	317	176	25
900	321	245	239	306	520	464	549	562	499	540	143	304	323	193	20
1050	322	246	239	305	517	470	557	563	514	546	148	311	324	209	29
1200	322	246	240	310	518	524	536	569	562	549	202	290	329	252	31
1350	321	247	240	309	516	468	535	560	547	545	147	288	320	238	29
1500	322	246	239	310	516	434	555	545	533	538	112	309	306	223	22
1650	322	247	240	309	517	408	514	522	493	532	86	267	282	184	15
1800	322	248	238	308	518	391	441	469	444	534	69	193	231	136	16
1950			237	310	525			339	395	536			102	85	11
2100			240	311				303	338				63	27	
2250			242	308				284	345				42	37	
2400			248	310				270	335				22	25	
2550			256	316				306	334				50	18	
2700			270	330				271	334				1	4	
2850			287	342				283	337				-4	-5	
3000															

Reference plane is parallel to test vehicle longitudinal centerline

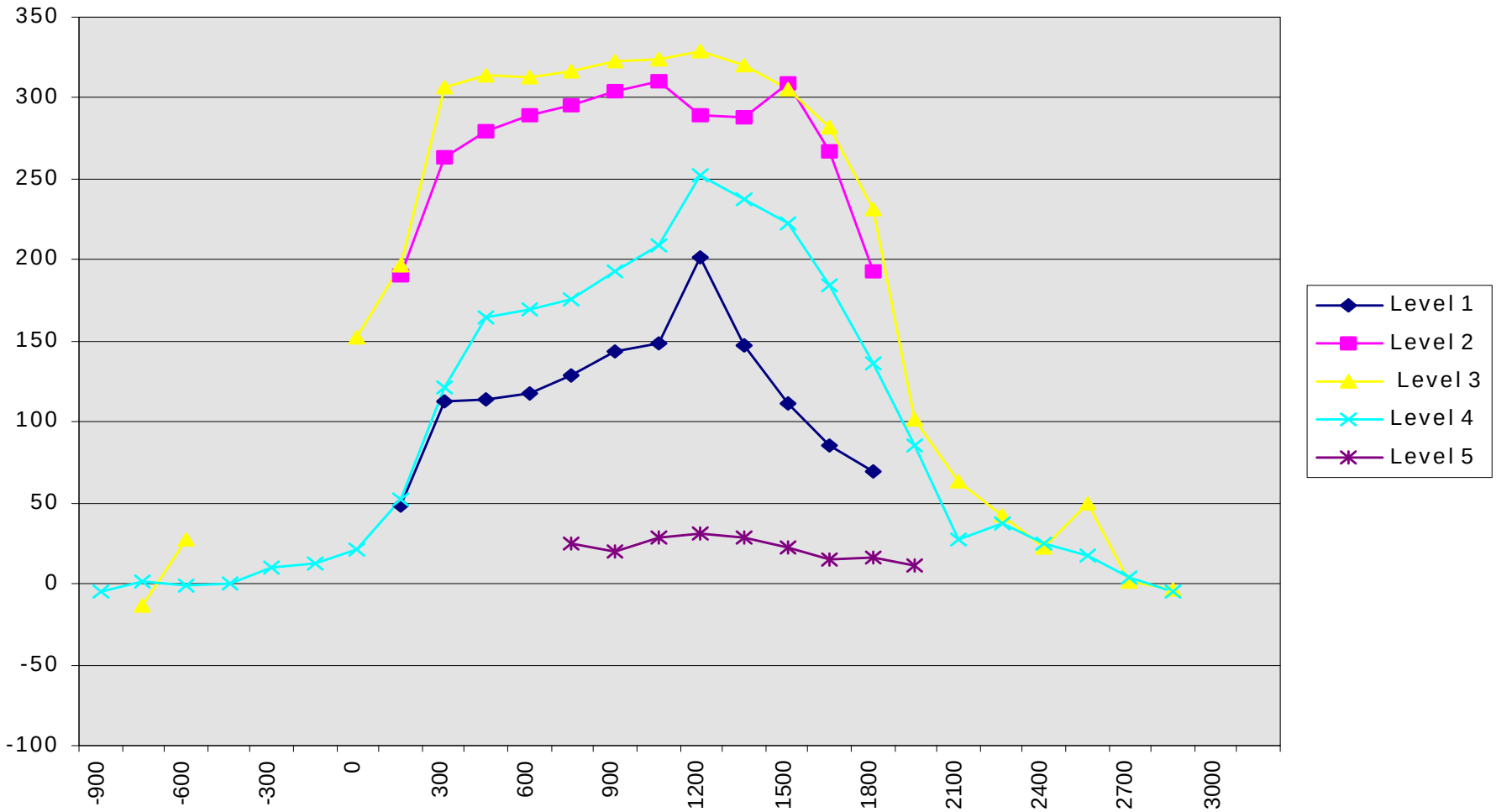
Given dimensions = Reference plane to car body

DATA SHEET NO. 10...(continued)

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

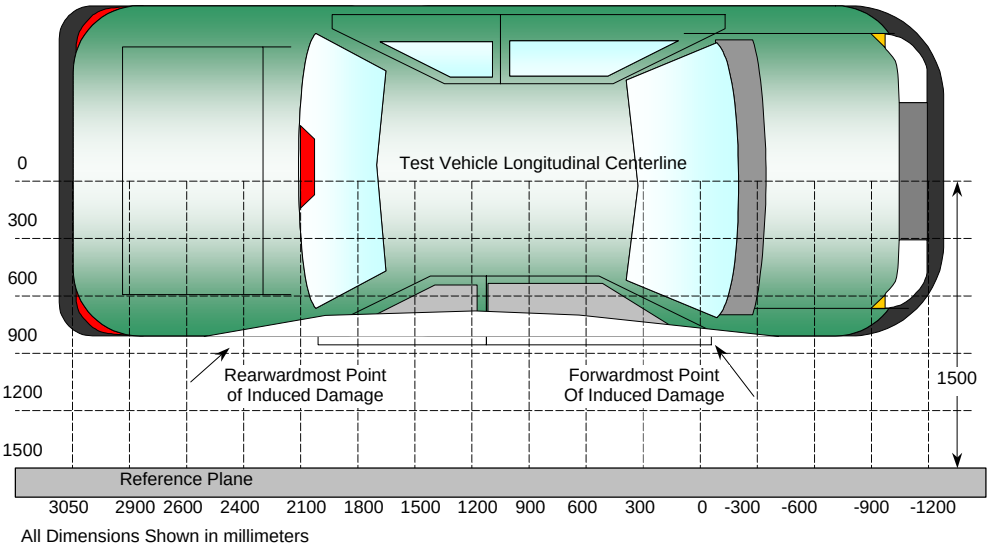


DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001



TOP VIEW

Damage Profile Distances

DPD	Distance from Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	2550 mm	3	256	306	50
2	1897 mm	3	237	385	148
3	1256 mm	3	240	547	307
4	568 mm	3	235	543	308
5	-22 mm	3	232	364	132
6	-600 mm	3	263	290	27

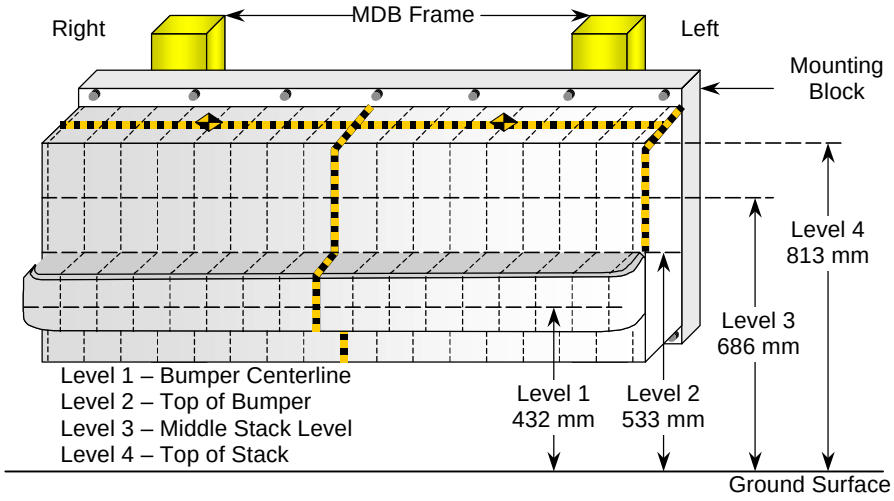
Reference plane is parallel to test vehicle longitudinal centerline
Given dimensions = Reference plane to car body

DATA SHEET NO. 12

DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 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	0	100	200	300	400	500	600	700	800
1	102	89	66	59	53	48	42	39	35	33	29	25	21	19	22	27	34
2	61	51	43	37	32	30	25	22	19	15	13	11	9	8	7	13	19
3	94	43	14	6	4	3	2	2	1	0	-1	-1	-2	-2	-2	-3	2
4	126	83	48	20	10	6	4	4	4	2	0	-2	-3	-3	-3	3	40

All Dimensions in mm

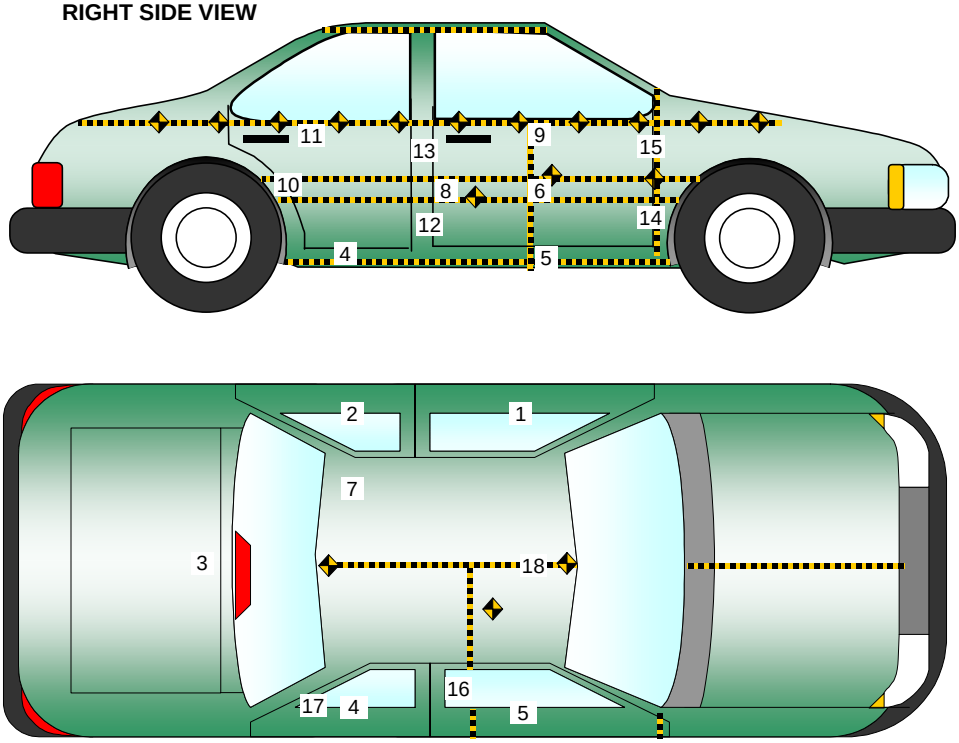
DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001

RIGHT SIDE VIEW



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

No.	Location
10	Right Rear Door Mid-Rear
11	Right Rear Door Upper Centerline
12	Right Lower B-Post
13	Right Middle B-Post
14	Right Lower A-Post
15	Right Middle A-Post
16	Right 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: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 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	Left Sill at Front Seat	2529	-650	180	X	1.7	53	4.6	10
					Y	1.9	76	15.7	40
					Z	4.6	74	5.4	10
					RES	15.7	40		
2	Left Sill at Rear Seat	1758	-655	185	X	2.7	53	3.8	23
					Y	2.2	119	18.9	36
					Z	7.3	37	2.7	30
					RES	20.3	37		
3	Rear Floorpan Above Axle	1040	0	540	X	5.9	24	18.8	19
					Y	2.3	119	19.7	35
					Z	7.8	8	6.1	12
					RES	23.4	19		
4	Right Sill at Rear Seat	1760	650	180	Y	7.9	33	51.6	20
5	Right Sill at Front Seat	2537	650	170	Y	8.0	78	23.7	22
7	Left Rear Occupant	1730	-345	340	Y	2.0	163	21.6	37
12	Right B-Post Lower	1938	670	315	Y	50.6	56	246.2	5
13	Right B-Post Middle	1945	685	785	Y	91.4	25	197.8	5
14	Right A-Post Lower*	2965	680	325	Y	13.9	19	77.6	4
15	Right A-Post Middle*	2980	750	760	Y	15.5	8	57.4	3
16	Right Front Seat Track**	2214	500	320	Y	9.3	22	60.0	15
18	Vehicle CG	2362	0	410	X	5.4	45	10.5	40
					Y	31.4	30	57.3	24
					Z	33.5	26	21.9	32
					RES	60.3	25		

Reference Points X - Rear of Vehicle (+ Forward)
Y - Vehicle Centerline (+ to Right)
Z - Ground Plane (+ Up)

* No valid data after 20 msec
**No valid data after 28 msec

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

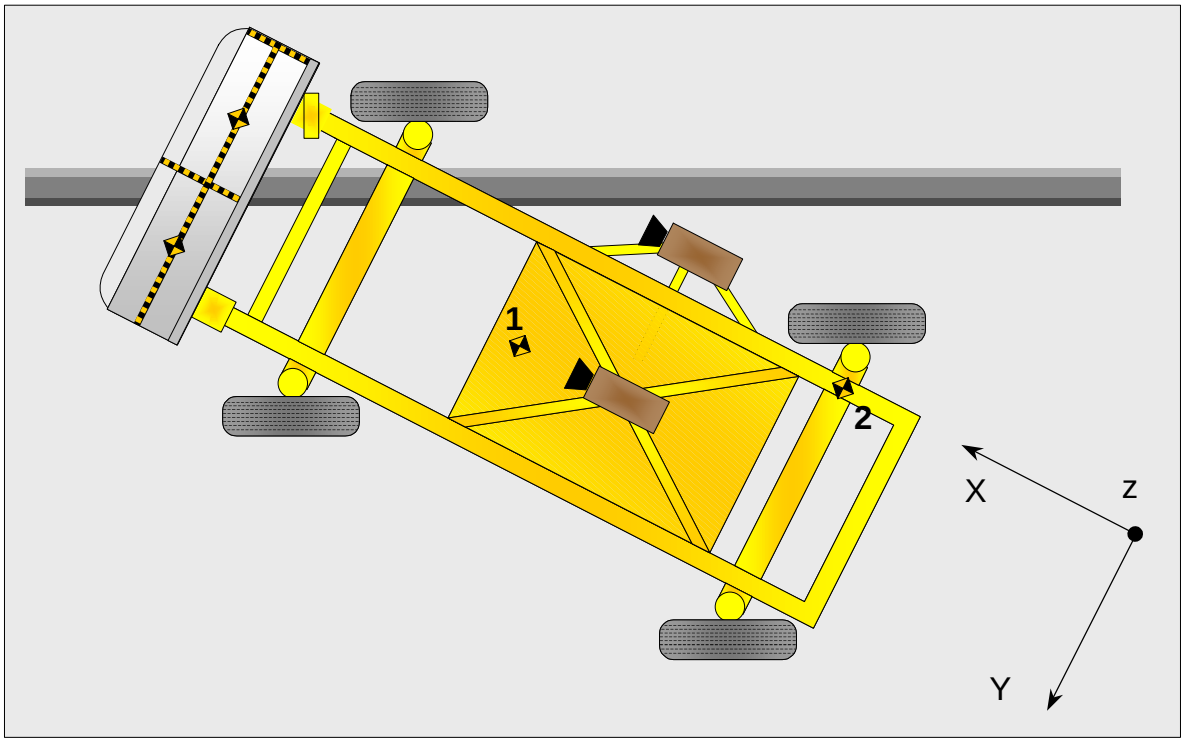
Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 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	1.2	132	13.9	40
					Y	5.2	29	3.0	58
					Z	9.0	74	9.9	68
					RES	15.4	24		
2	MDB Rear	-2591	-625	622	X	1.9	125	11.6	41
					Y	2.0	144	4.9	26

Reference Points X - MDB Front Axle (+ Forward)
Y - MDB Centerline (+ to Right)
Z - Ground Plane (+ Up)

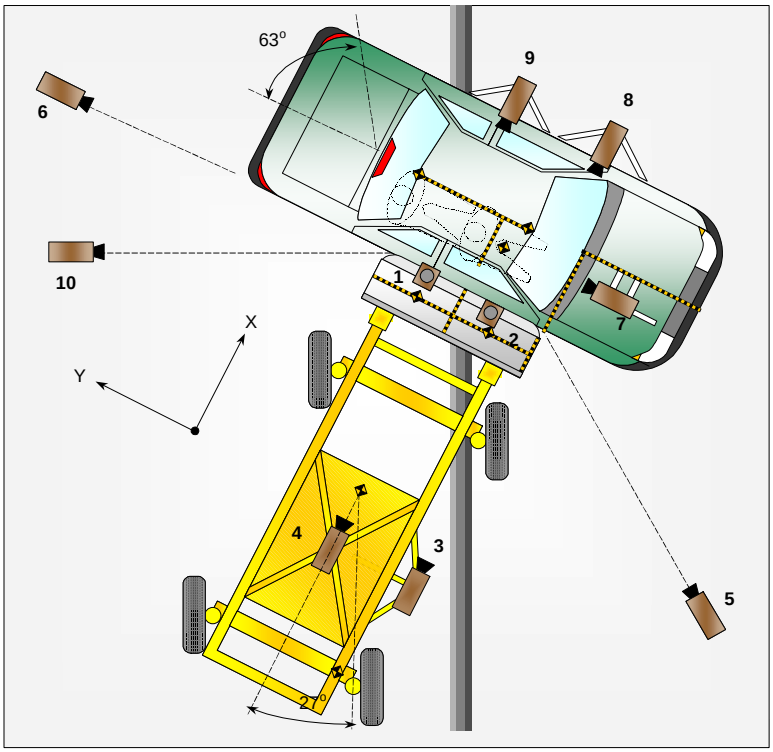


DATA SHEET NO. 15

HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 1995/Ford/Escort LX/4 door NHTSA No.: PS0200

Test Program: FMVSS 214 Test Date: May 3, 2001



No.	Camera View	Location (mm)			Lens (mm)	Film Speed (fps)
		X	Y	Z		
1	Overhead Overall	-280	-1050	5000	13	823
2	Overhead Close-up	710	0	5000	35	1099
3	MDB Onboard, Impact Point Close-up				13	803
4	MDB Onboard, Centerline of Impact				35	930
5	Right Side, Ground Level, Overall	-1000	2360	1710	13	1005
6	Left Side, Ground Level, Overall	-500	-10017	1660	25	1005
7	Vehicle Onboard Front SID, Front				13	524
8	Vehicle Onboard Front SID, Side				8	526
9	Vehicle Onboard Rear SID, Side				8	503
10	Real Time Coverage				13	32

Reference Points X - MDB Front Axle (+ Forward)
Y - MDB Centerline (+ to Right)
Z - Ground Plane (+ Up)

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



A-4

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



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



Photo No. A-6 - Post-Test Right 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)

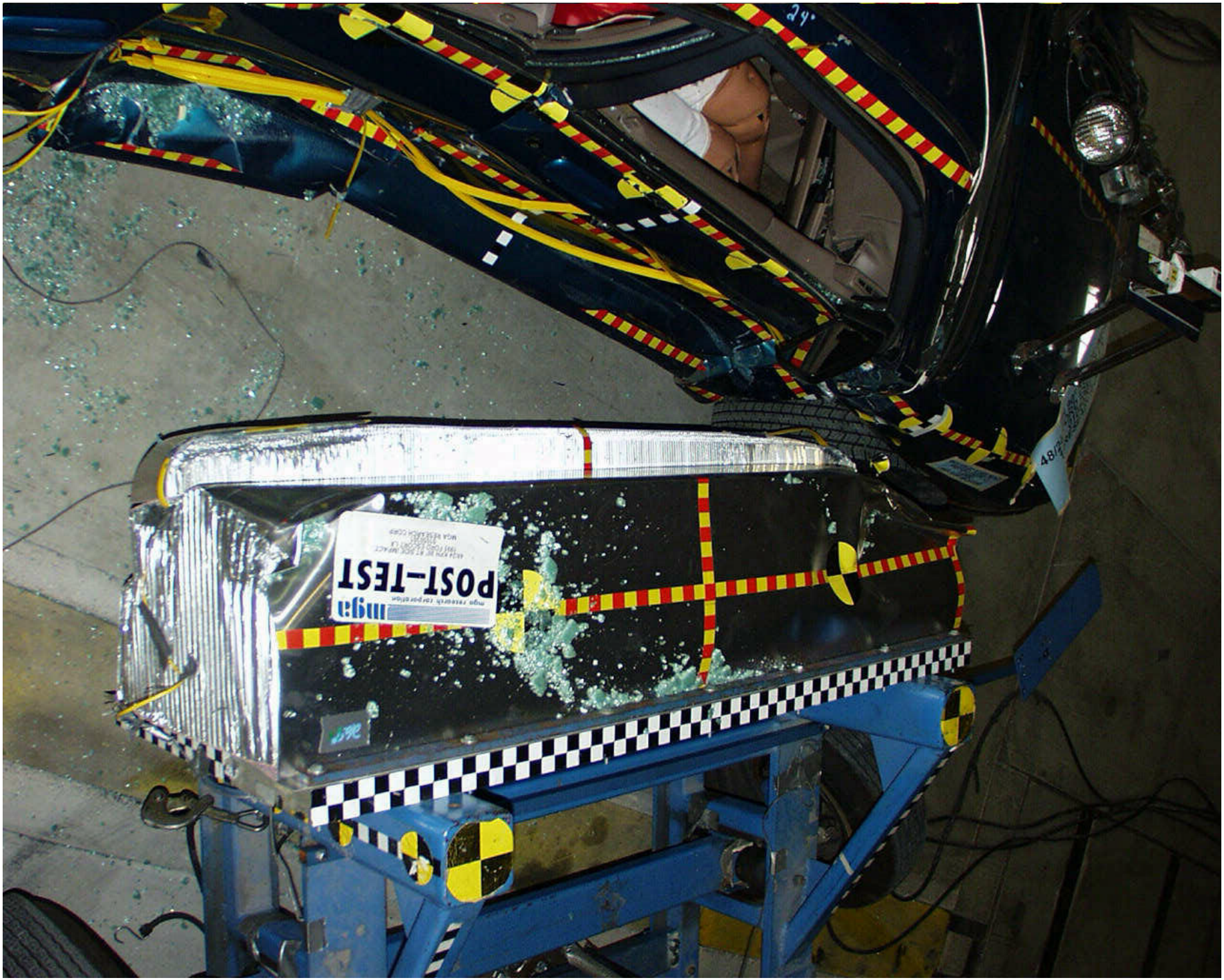


Photo No. A-12 - Post-Test MDB and Vehicle (overhead view)



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



Photo No. A-14 - Post-Test MDB Top View

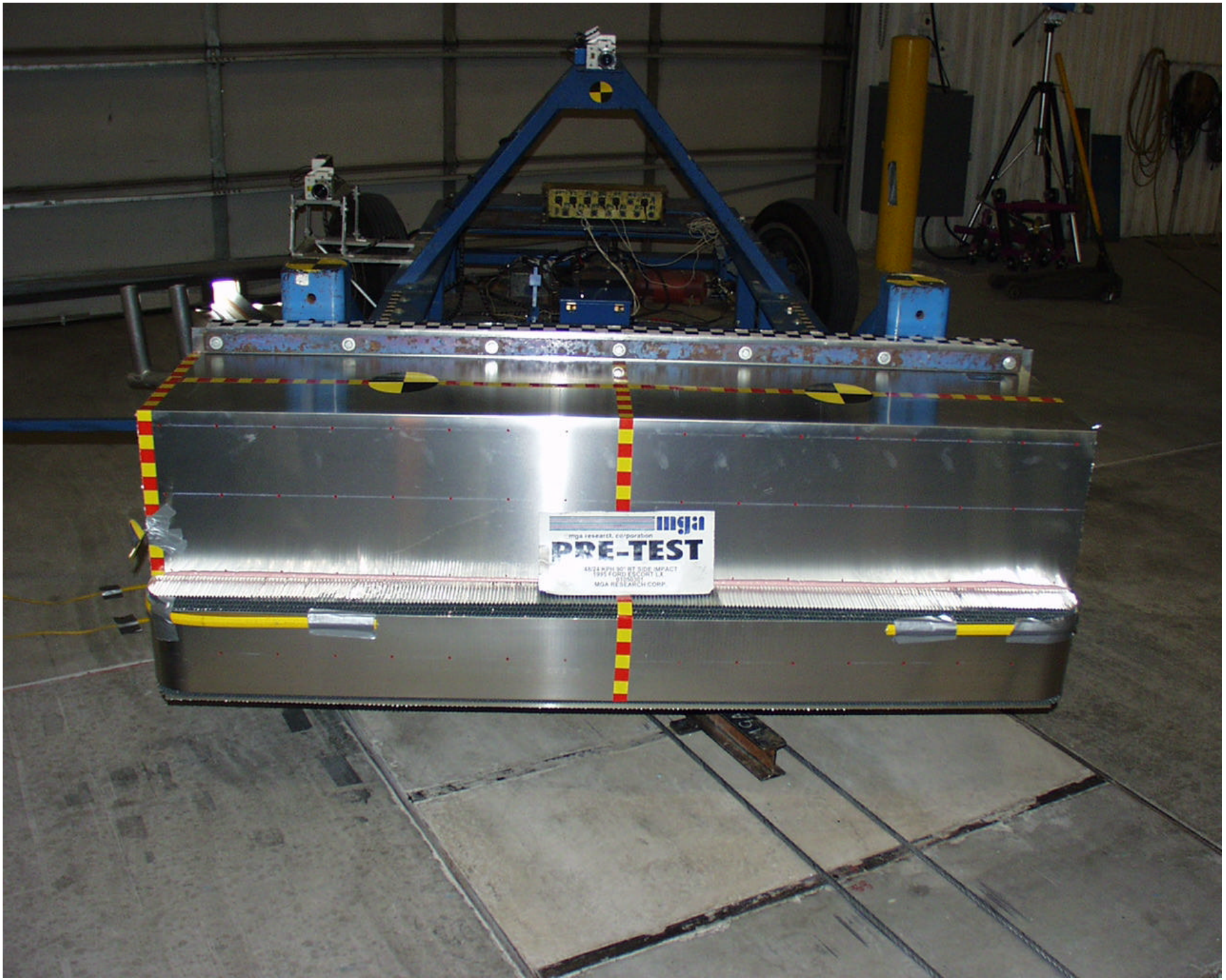


Photo No. A-15 - Pre-Test MDB Front View

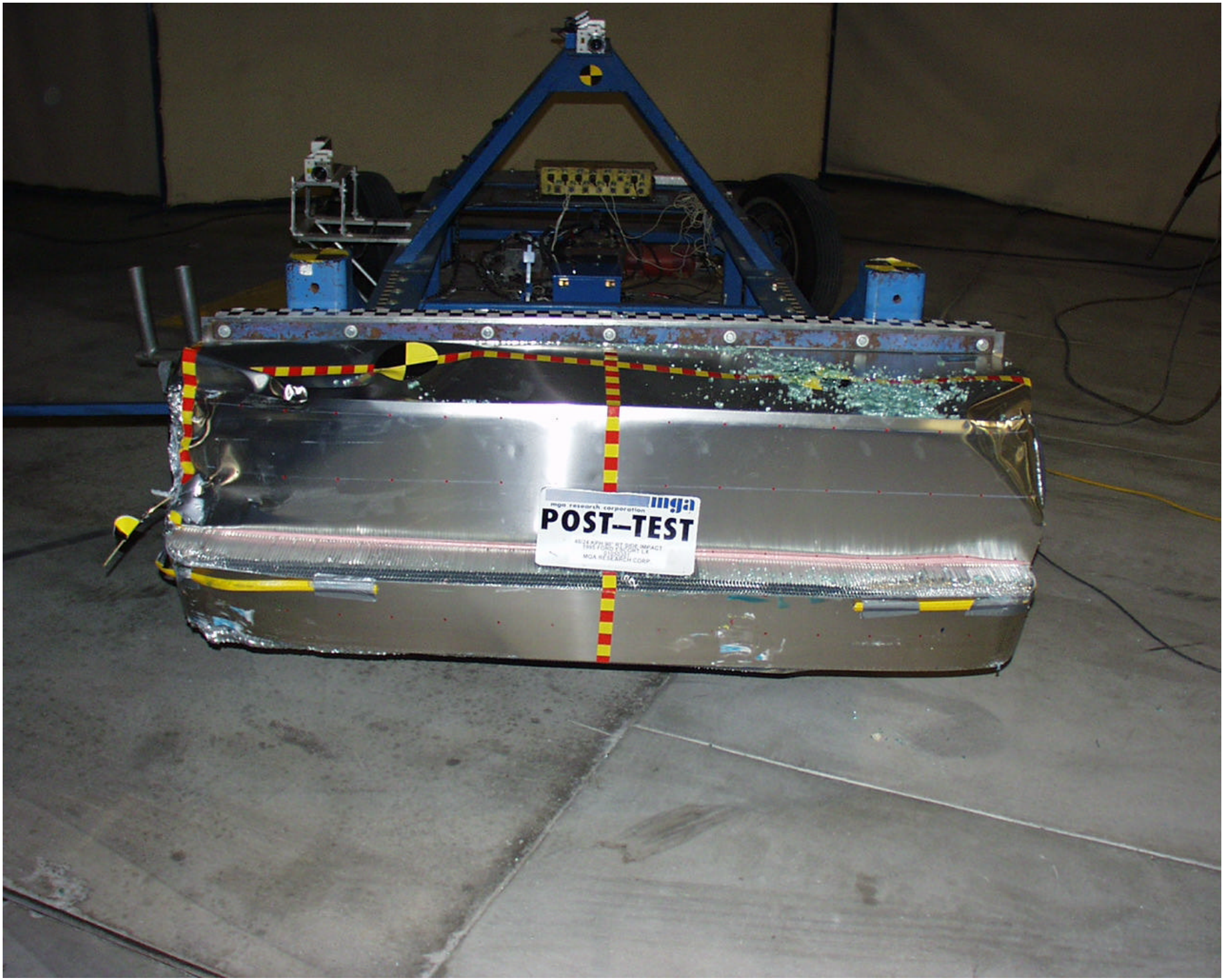


Photo No. A-16 - Post-Test MDB Front View



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



Photo No. A-18 - Post-Test MDB Right Side View



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



Photo No. A-20 - Post-Test MDB Left Side View



Photo No. A-21 - Pre-Test RFP Dummy Left Side View



Photo No. A-22 - Post-Test RFP Dummy Left Side View



Photo No. A-23 - Pre-Test RFP Dummy Right Side View



Photo No. A-24 - Post-Test RFP Dummy Right Side View



Photo No. A-25 - Pre-Test RFP Dummy Right Side View (Door Open)



Photo No. A-26 - Pre-Test RFP Dummy Shoulder and Door Top View



Photo No. A-27 - Post-Test RFP Dummy Shoulder and Door Top View



Photo No. A-28 - Post-Test RFP Dummy Contact



Photo No. A-29 - Pre-Test RRP Dummy Right Side View



Photo No. A-30 - Post-Test RRP Dummy Right Side View



Photo No. A-31 - Pre-Test RRP Dummy Left Side View



Photo No. A-32 - Post-Test RRP Dummy Left Side View



Photo No. A-33 - Pre-Test RRP Dummy Right Side View (Door Open)



Photo No. A-34 - Pre-Test RRP Dummy Shoulder and Door Top View



Photo No. A-35 - Post-Test RRP Dummy Shoulder and Door Top View



Photo No. A-36 - Post-Test RRP Dummy Contact

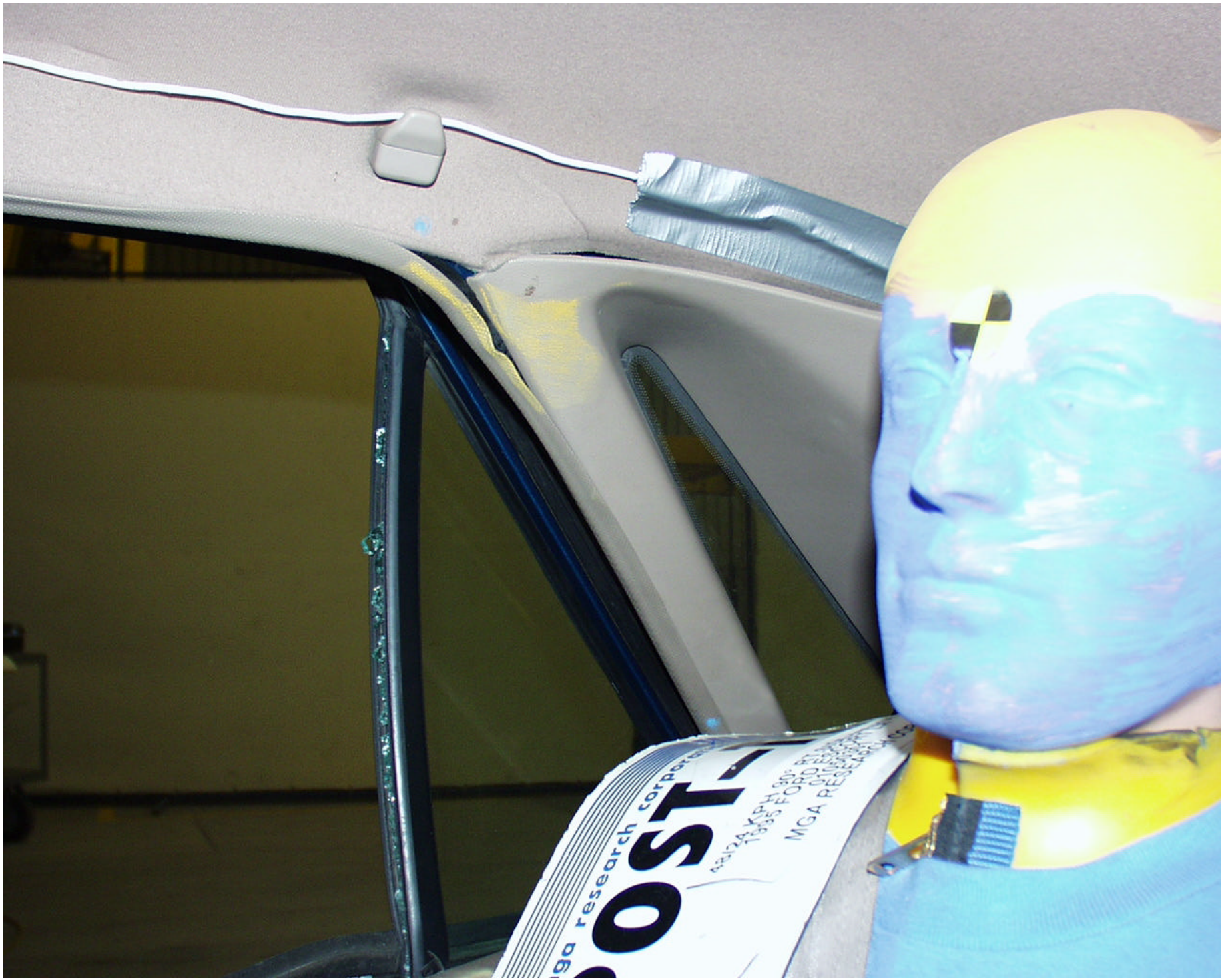


Photo No. A-37 - Post-Test RRP Head Contact

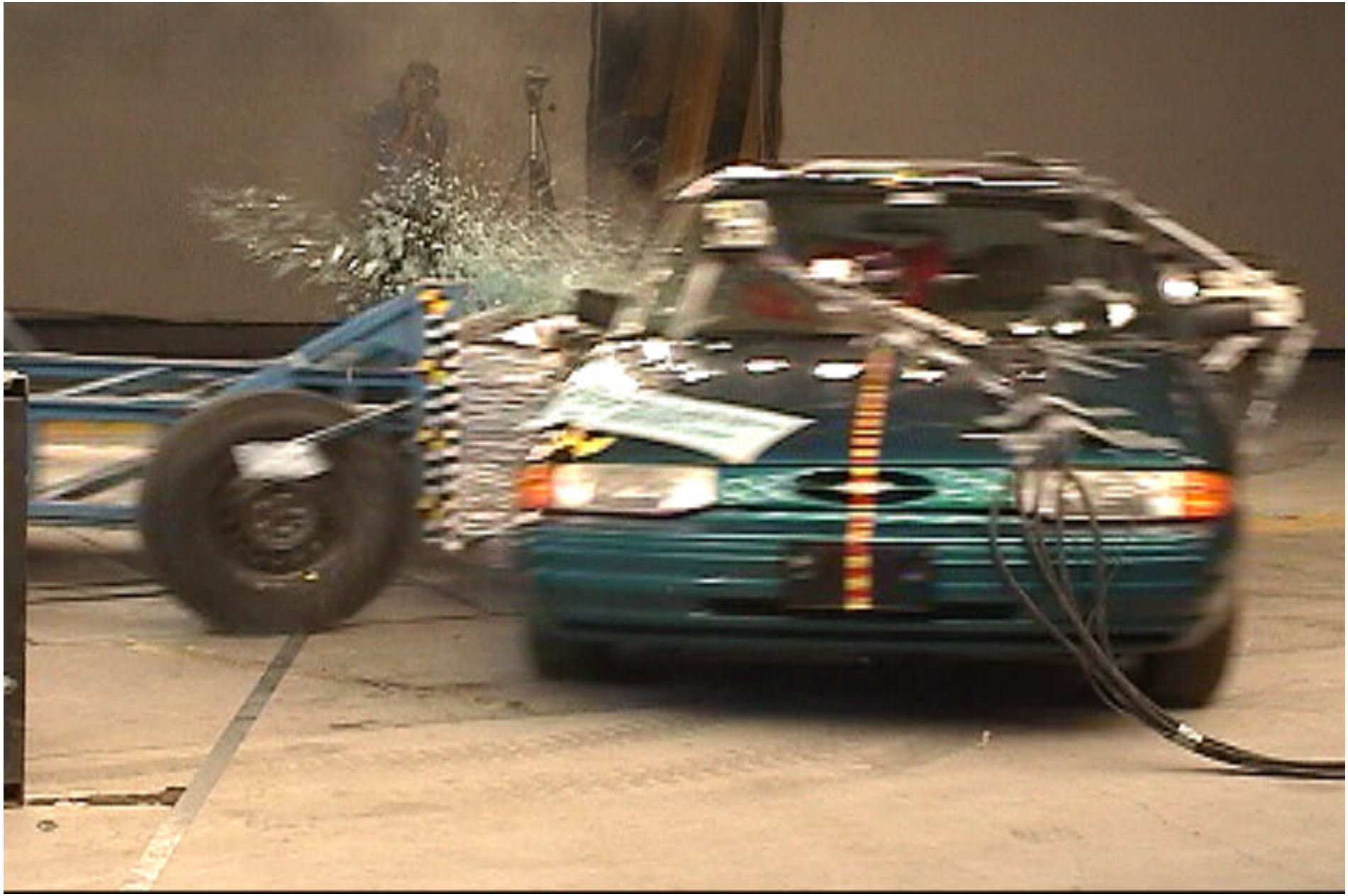
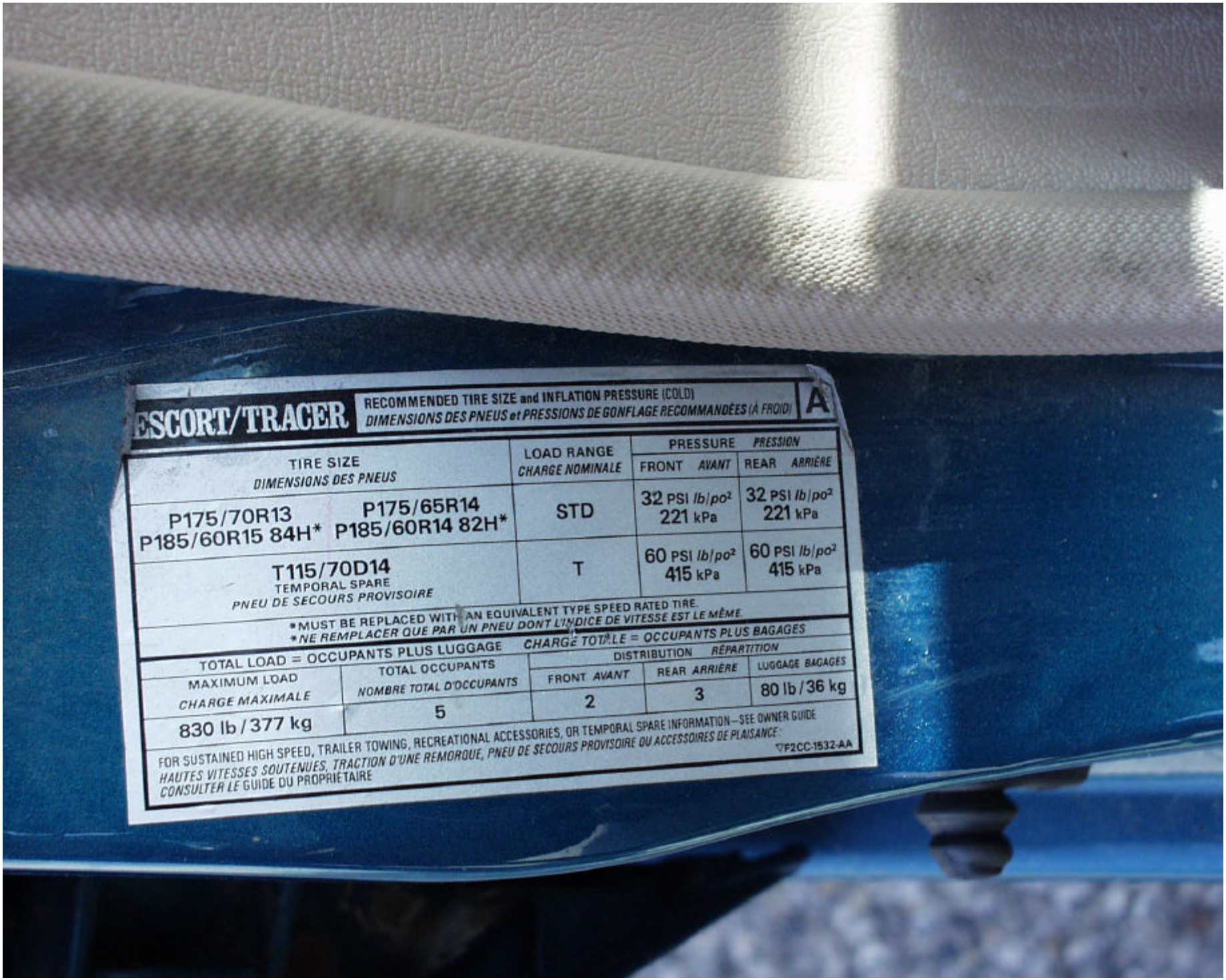


Photo No. A-38 - Vehicle Impact



A-39

Photo No. A-39 - Vehicle Certification Label



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Photo No. A-40 - Tire Placard

APPENDIX B

SID, VEHICLE, AND MDB RESPONSE DATA

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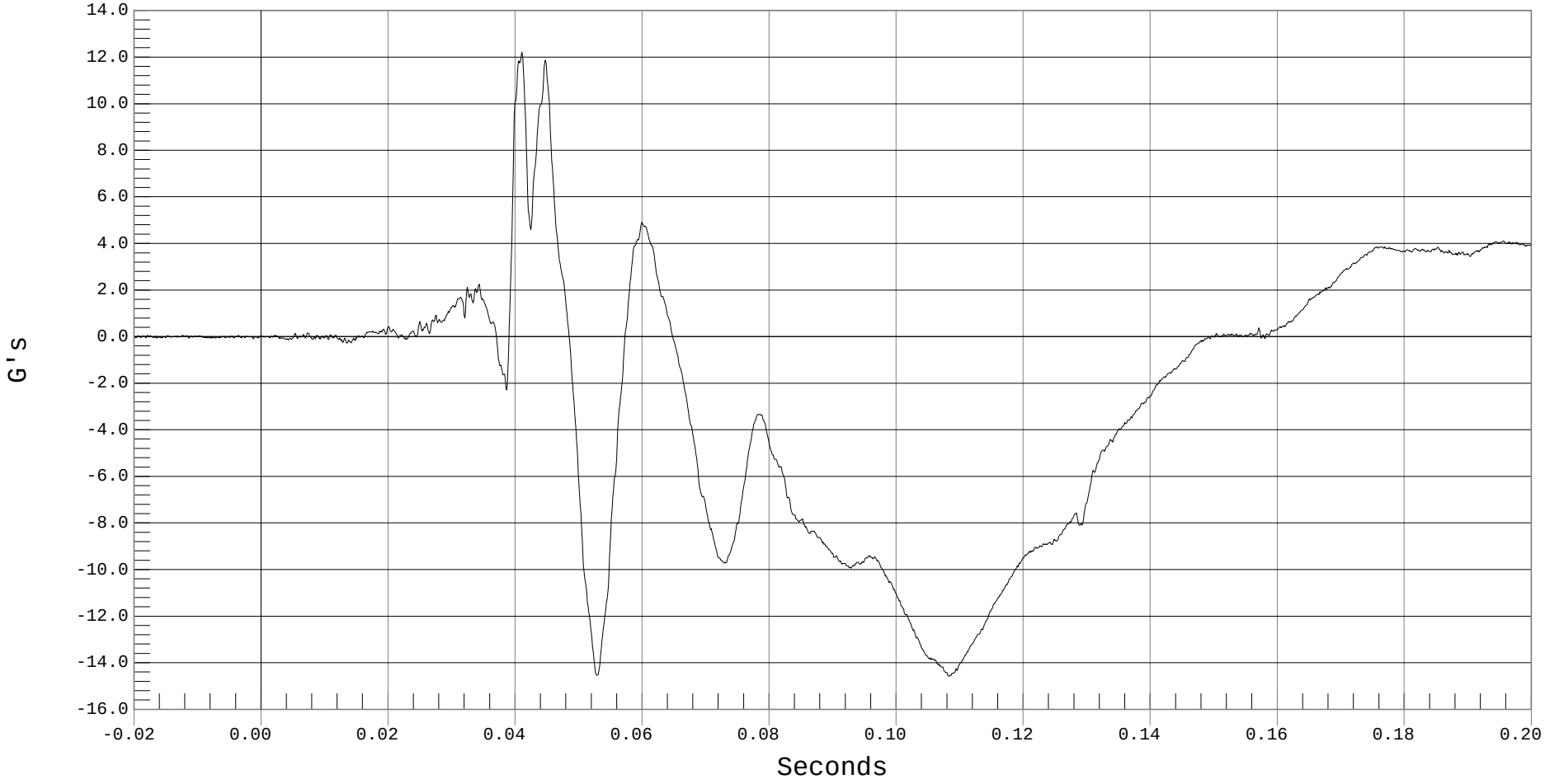
RIGHT FRONT HEAD X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER HEAD X, b01051AT.A01

Ymin = -14.58 G's @ 0.1082 Seconds, Ymax = 12.21 G's @ 0.0410 Seconds



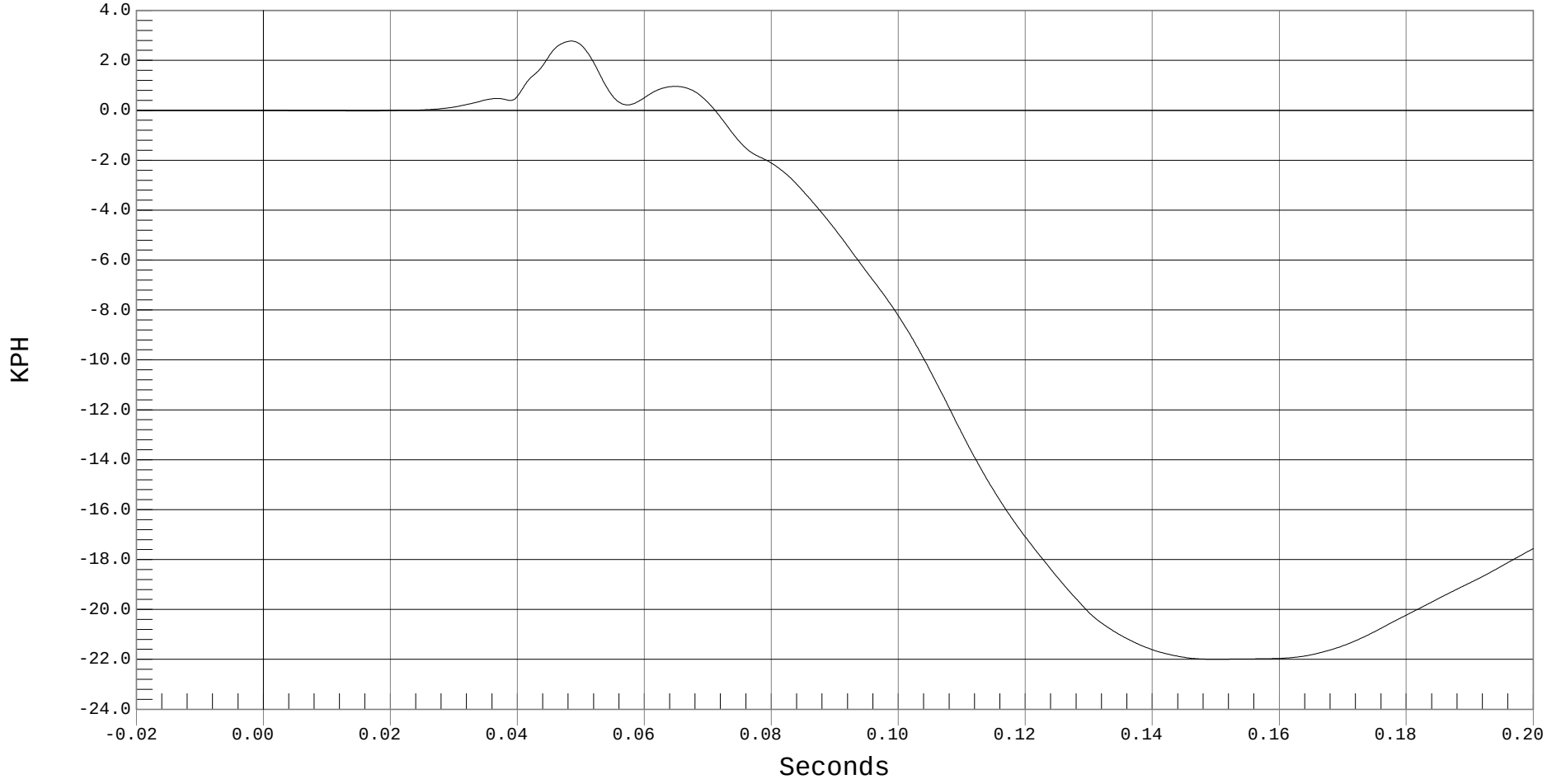
RIGHT FRONT HEAD X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT HEAD X VELOCITY, b01051AI.V01

Ymin = -21.99 KPH @ 0.1497 Seconds, Ymax = 2.77 KPH @ 0.0484 Seconds



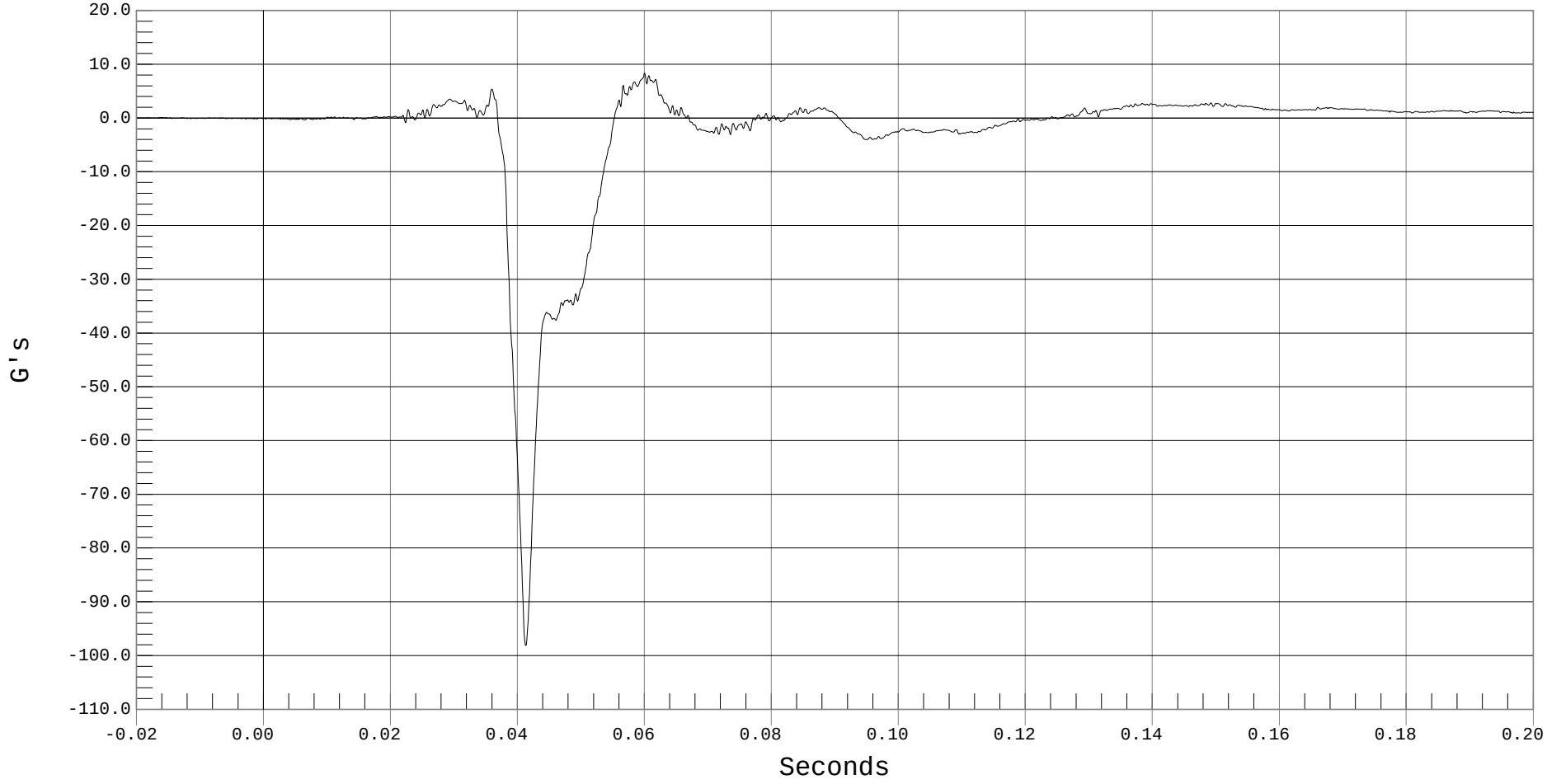
RIGHT FRONT HEAD Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER HEAD Y, b01051AT.A02

Ymin = -98.15 G's @ 0.0412 Seconds, Ymax = 8.33 G's @ 0.0599 Seconds



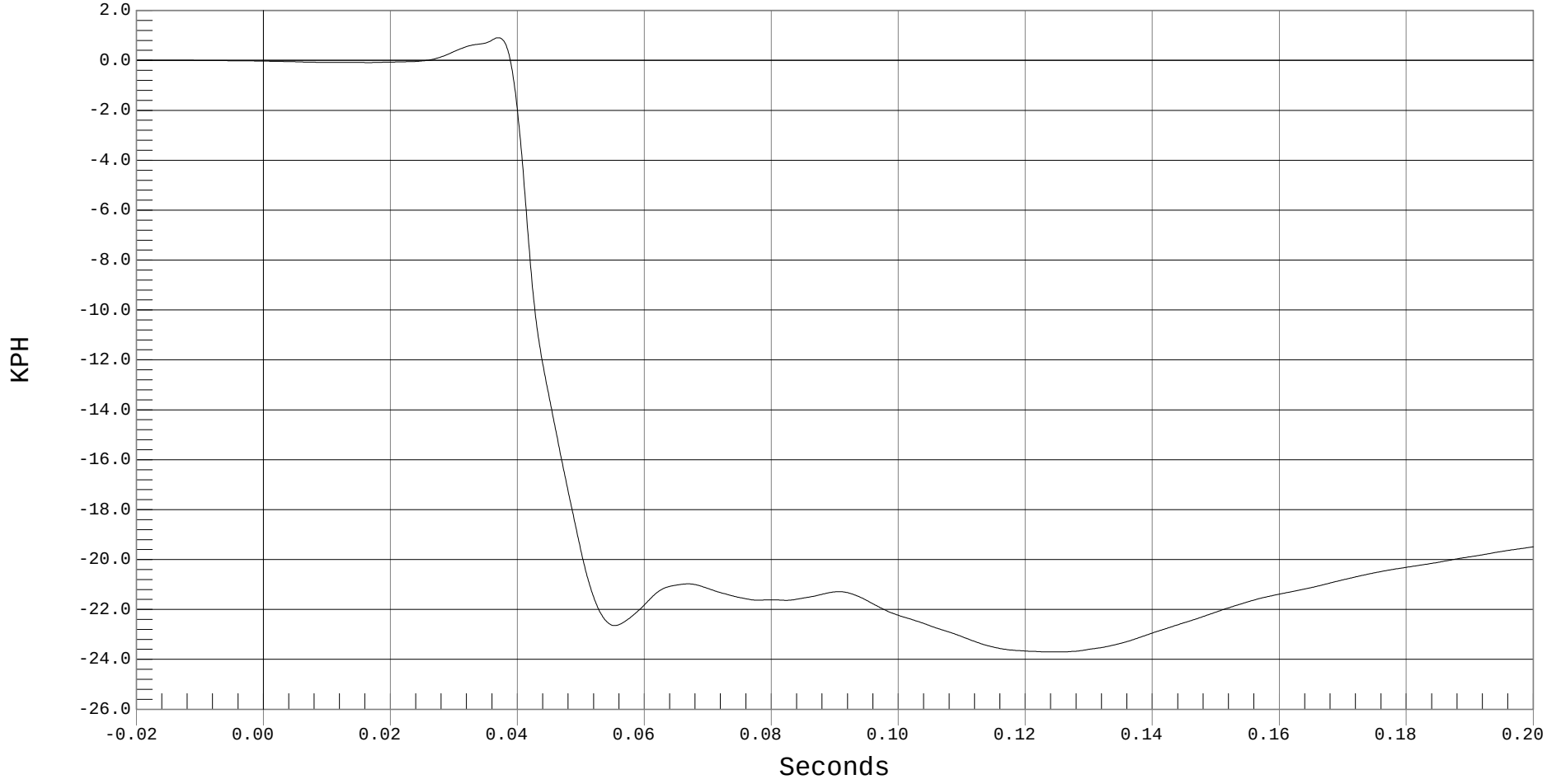
RIGHT FRONT HEAD Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT HEAD Y VELOCITY, b01051AI.V02

Ymin = -23.7 KPH @ 0.1239 Seconds, Ymax = .91 KPH @ 0.0369 Seconds



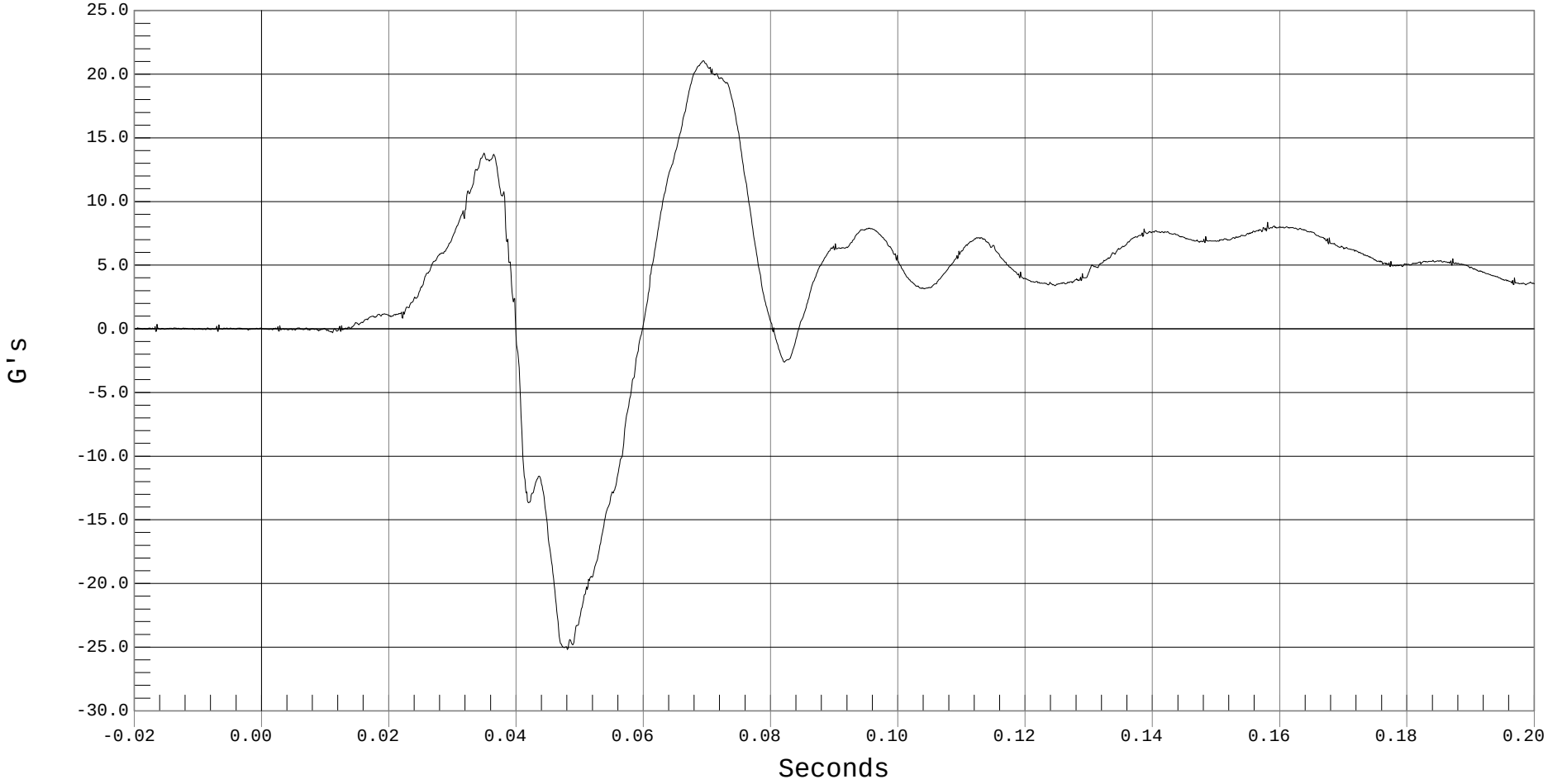
RIGHT FRONT HEAD Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER HEAD Z ACCELERATION, b01051AT.A03

Ymin = -25.19 G's @ 0.0480 Seconds, Ymax = 21.06 G's @ 0.0694 Seconds



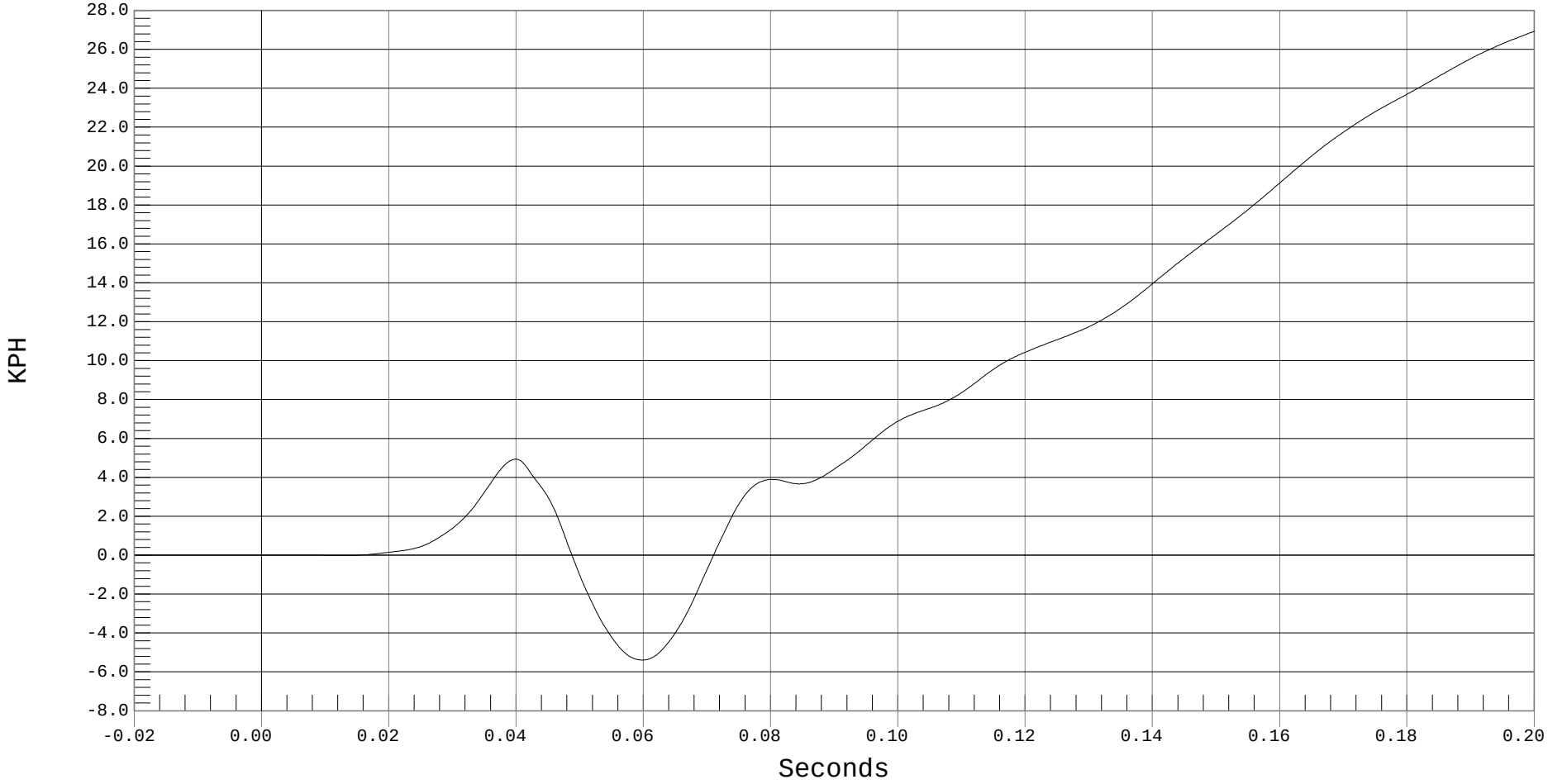
RIGHT FRONT HEAD Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT HEAD Z VELOCITY, b01051AI.V03

Ymin = -5.39 KPH @ 0.0597 Seconds, Ymax = 26.94 KPH @ 0.2000 Seconds



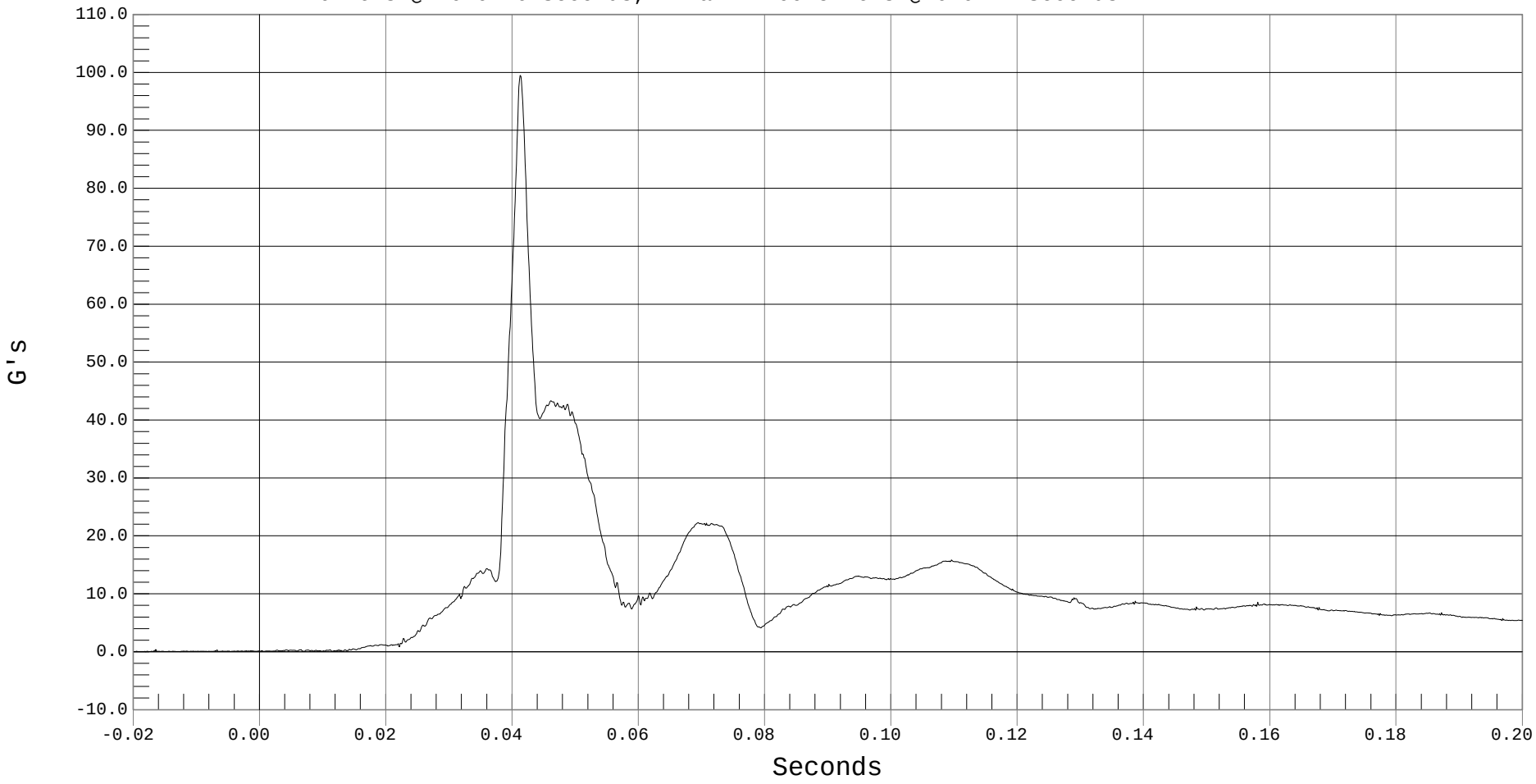
RIGHT FRONT HEAD RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT HEAD RESULTANT, b01051AV.A01

Ymin = .01 G's @ -0.0126 Seconds, Ymax = 99.51 G's @ 0.0412 Seconds



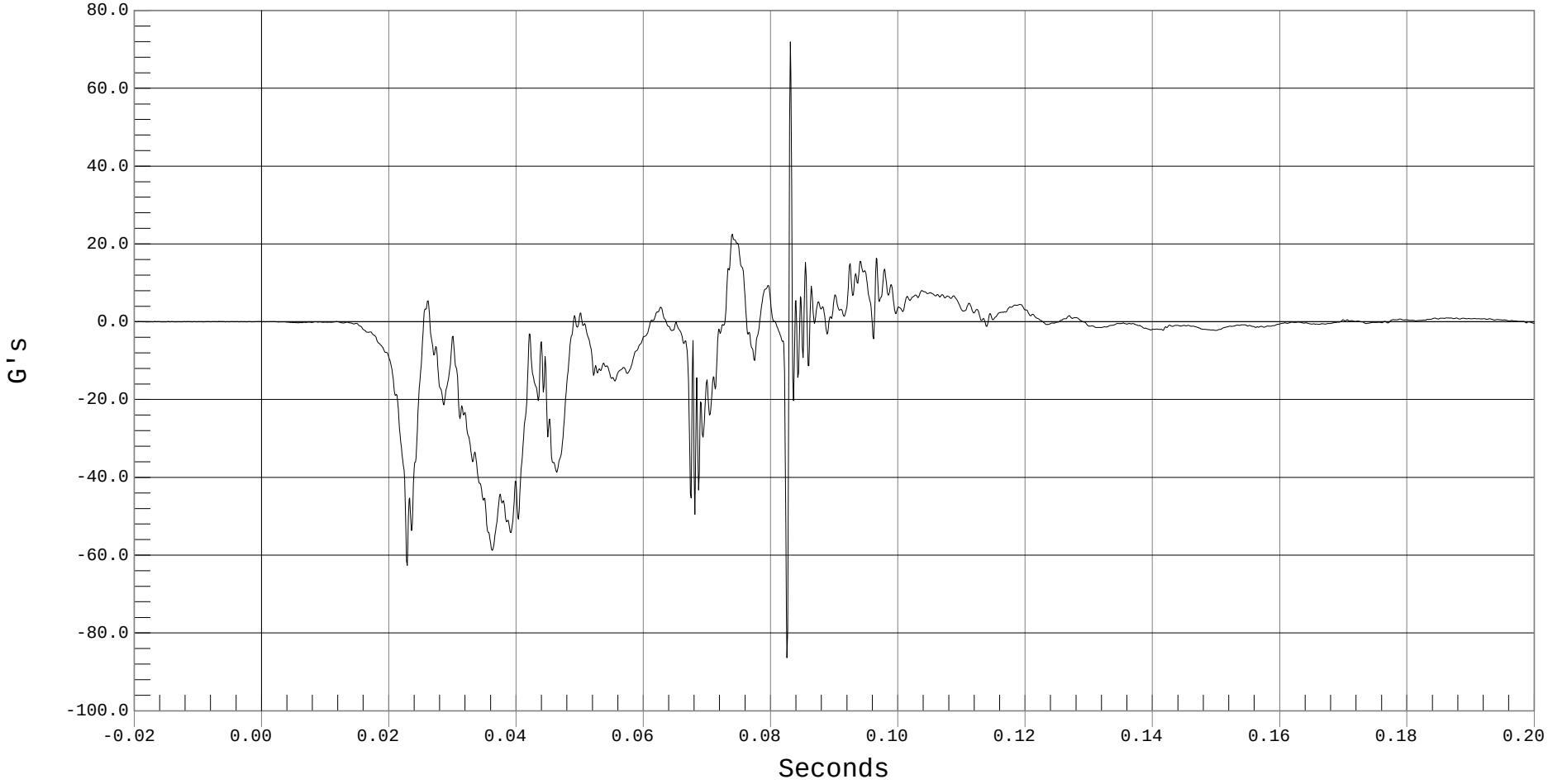
RIGHT FRONT UPPER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER UPPER RIB Y, b01051AT.A04

Ymin = -86.33 G's @ 0.0825 Seconds, Ymax = 71.89 G's @ 0.0830 Seconds



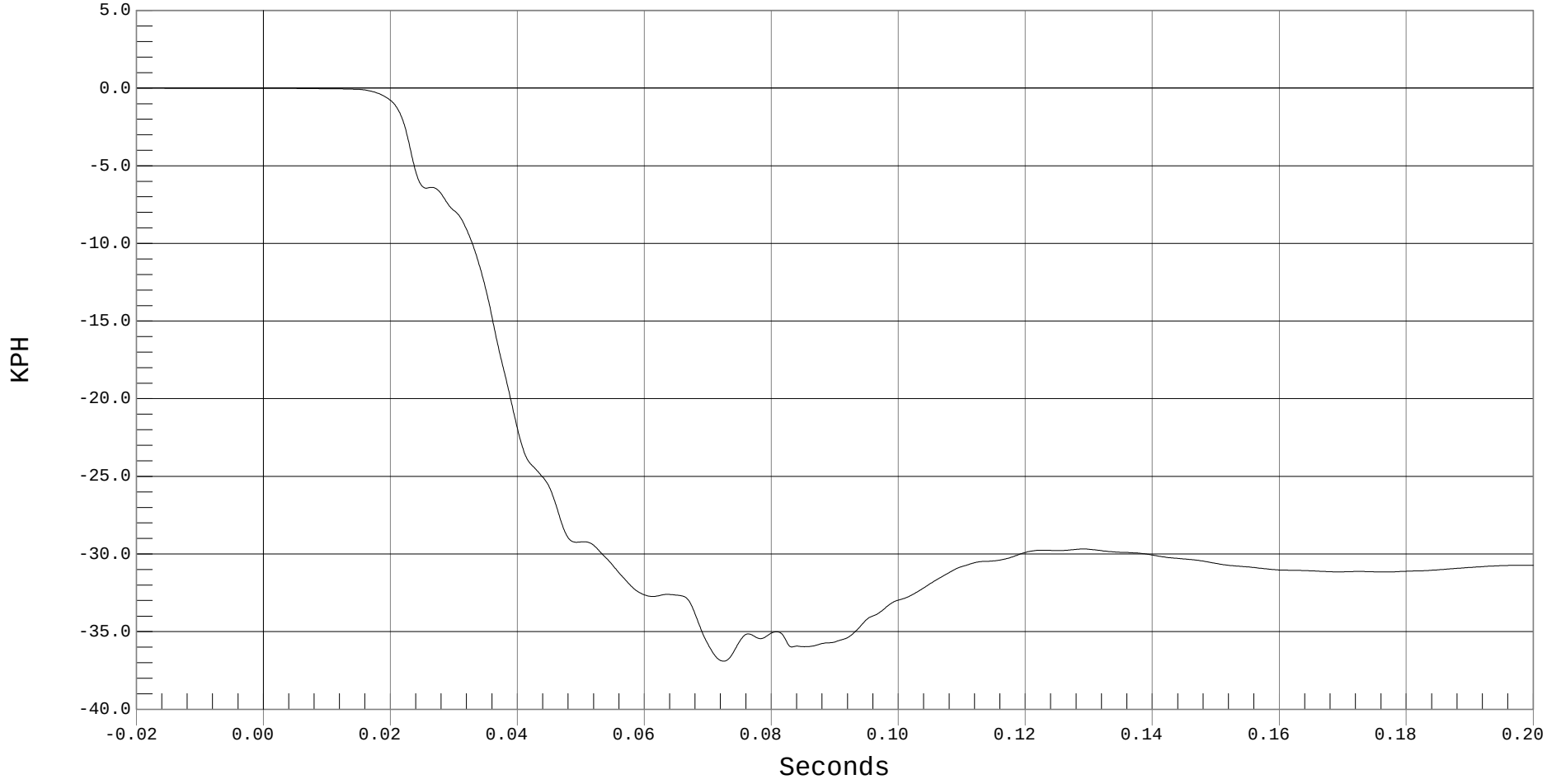
RIGHT FRONT UPPER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT UPPER RIB Y VELOCITY, b01051AI.V04

Ymin = -36.9 KPH @ 0.0724 Seconds, Ymax = 0 KPH @ -0.0189 Seconds



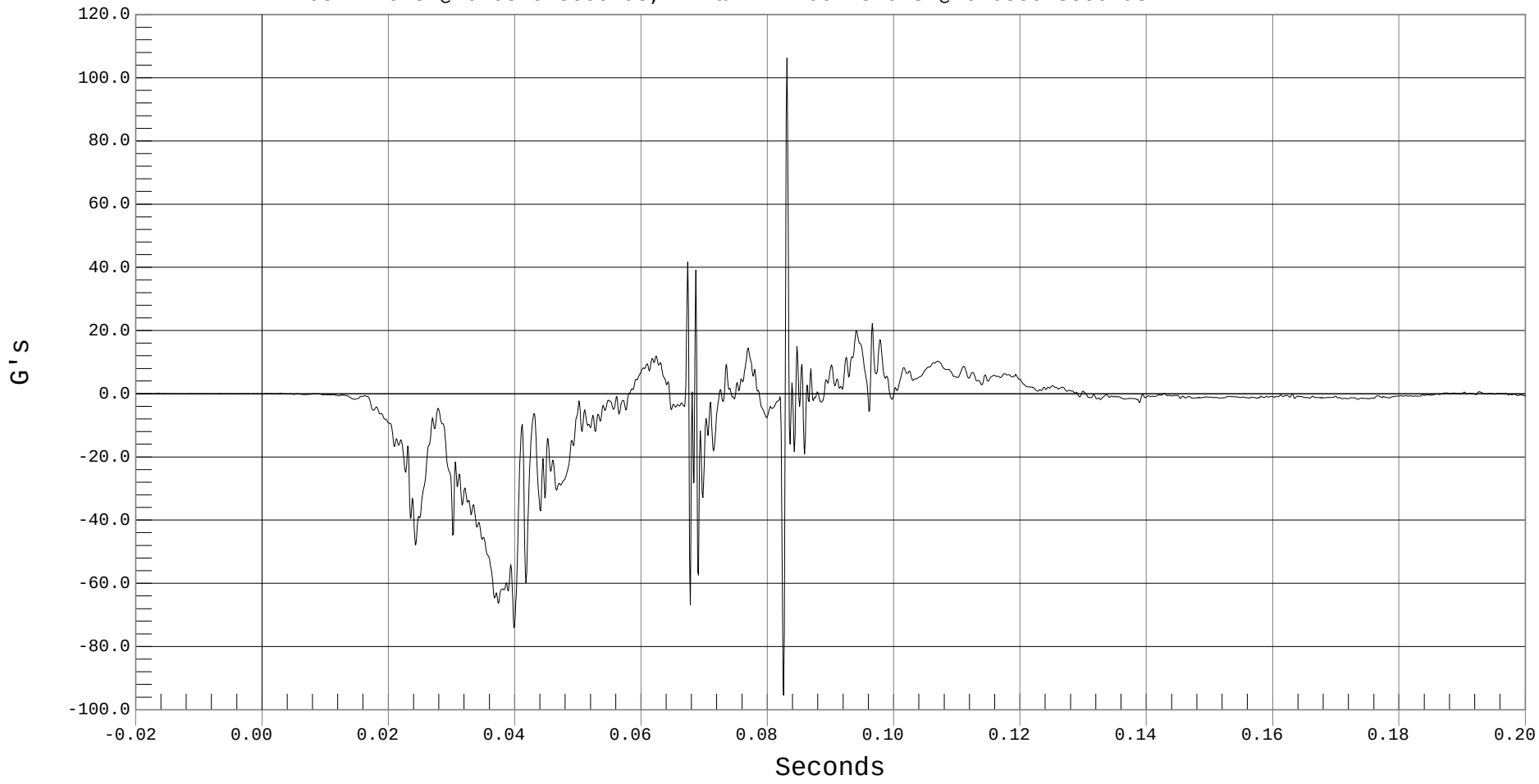
RIGHT FRONT LOWER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER LOWER RIB Y, b01051AT.A05

Ymin = -95.42 G's @ 0.0825 Seconds, Ymax = 106.23 G's @ 0.0830 Seconds



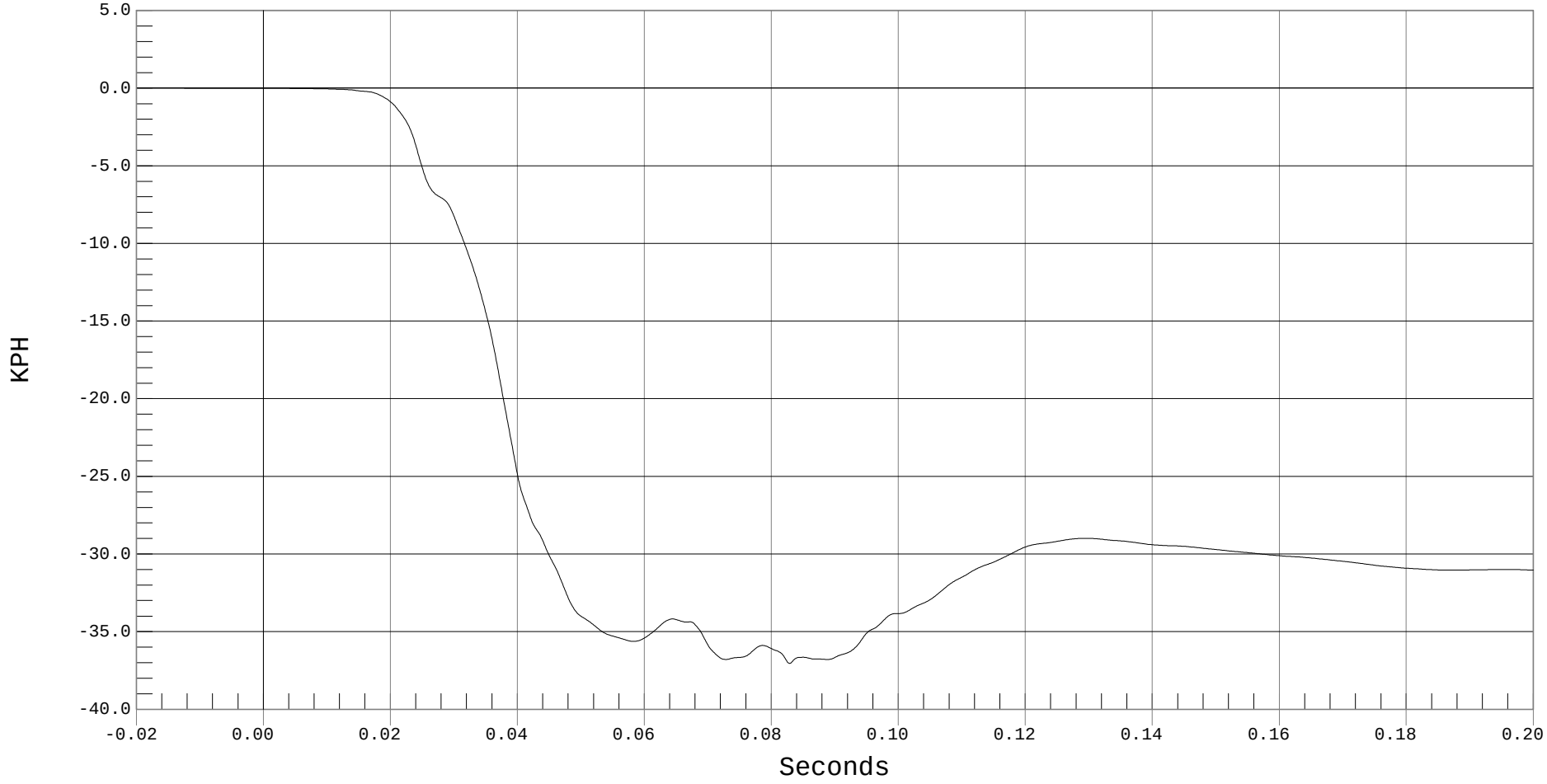
RIGHT FRONT LOWER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT LOWER RIB Y VELOCITY, b01051AI.V05

Ymin = -37.05 KPH @ 0.0828 Seconds, Ymax = 0 KPH @ -0.0153 Seconds



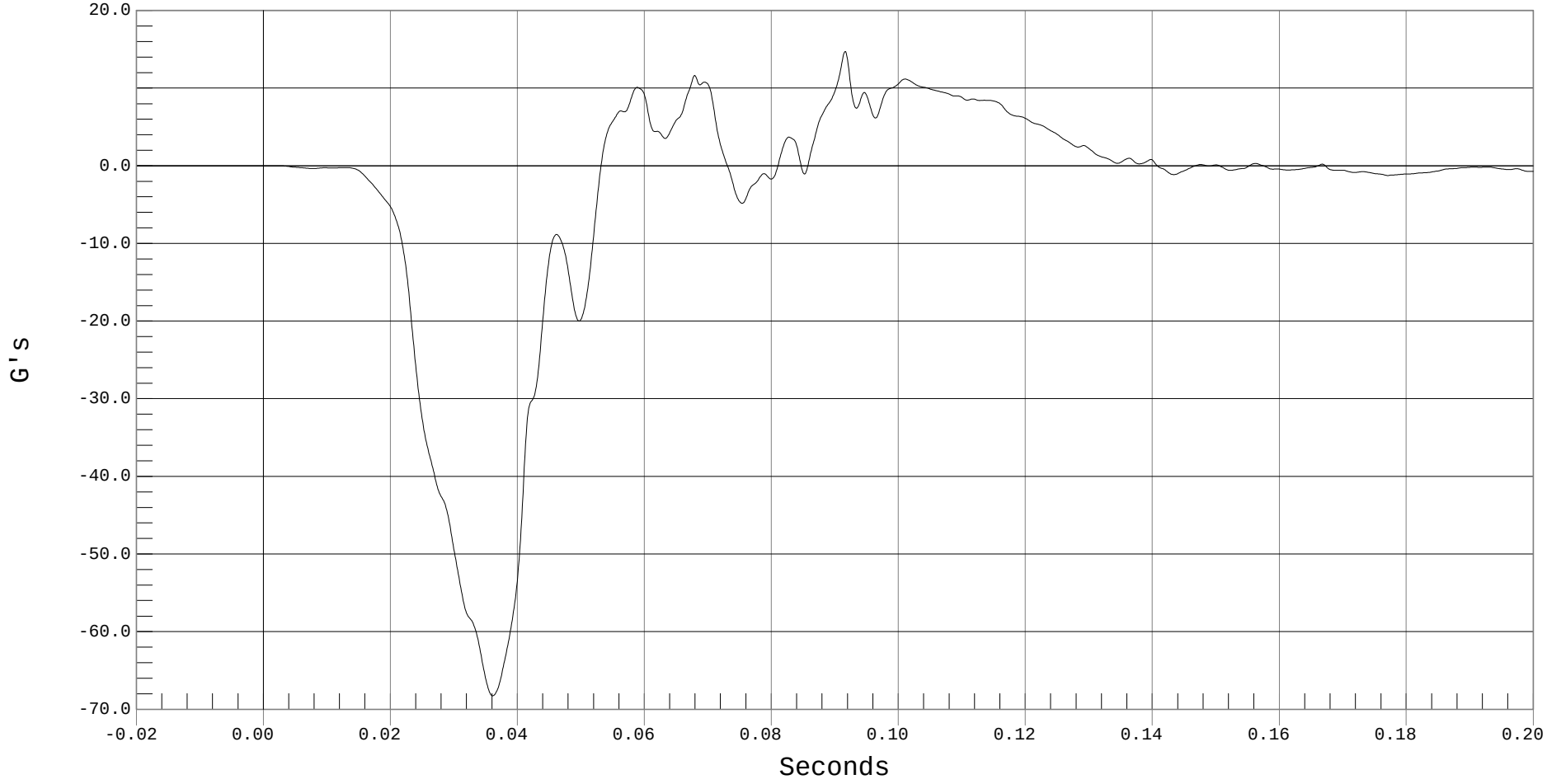
RIGHT FRONT LOWER SPINE Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT PASSENGER LOWER SPINE Y, b01051AF.A06

Ymin = -68.26 G's @ 0.0360 Seconds, Ymax = 14.72 G's @ 0.0915 Seconds



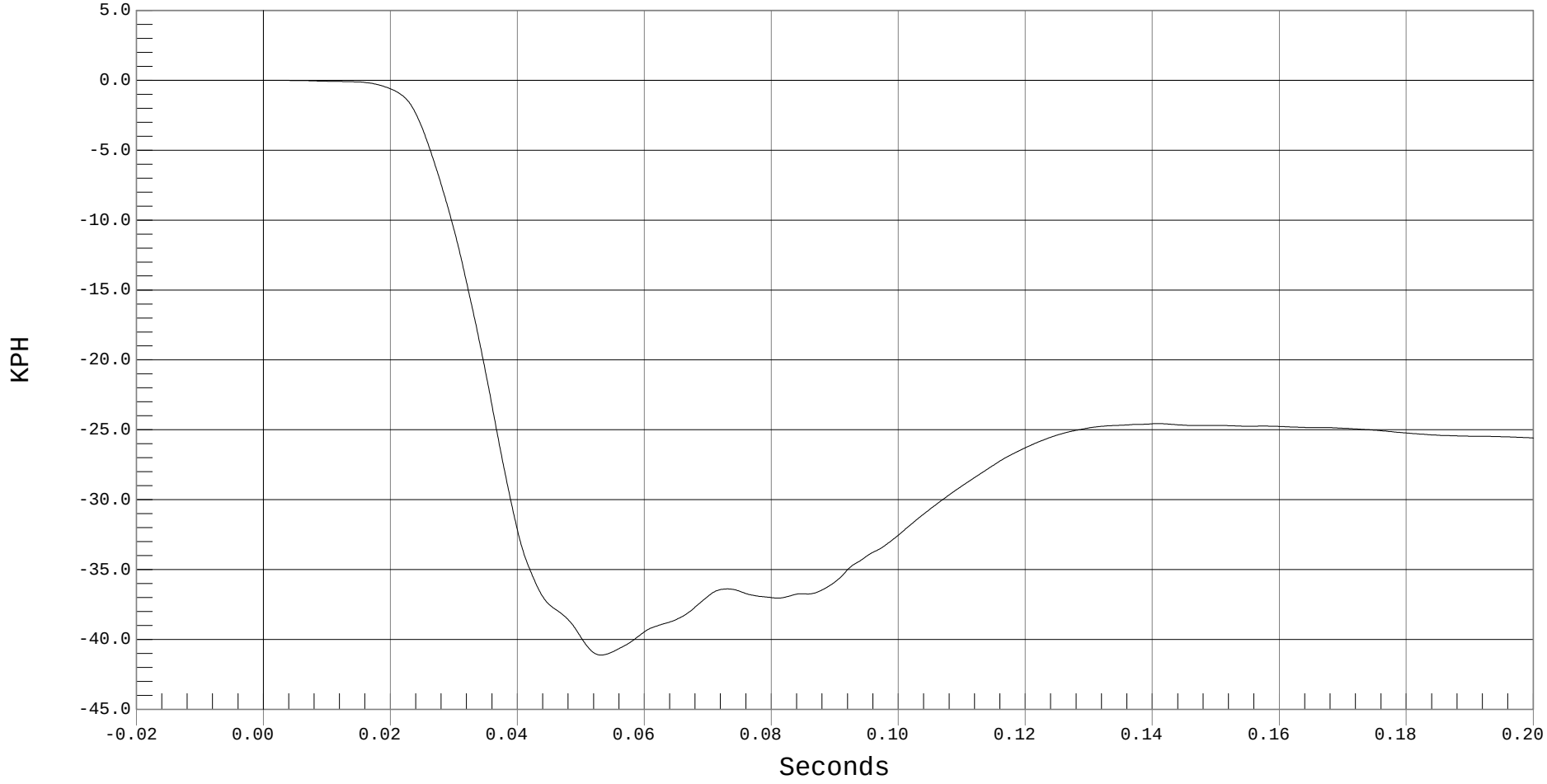
RIGHT FRONT LOWER SPINE Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT LOWER SPINE Y VELOCITY, b01051AI.V06

Ymin = -41.12 KPH @ 0.0531 Seconds, Ymax = 0 KPH @ -0.0166 Seconds



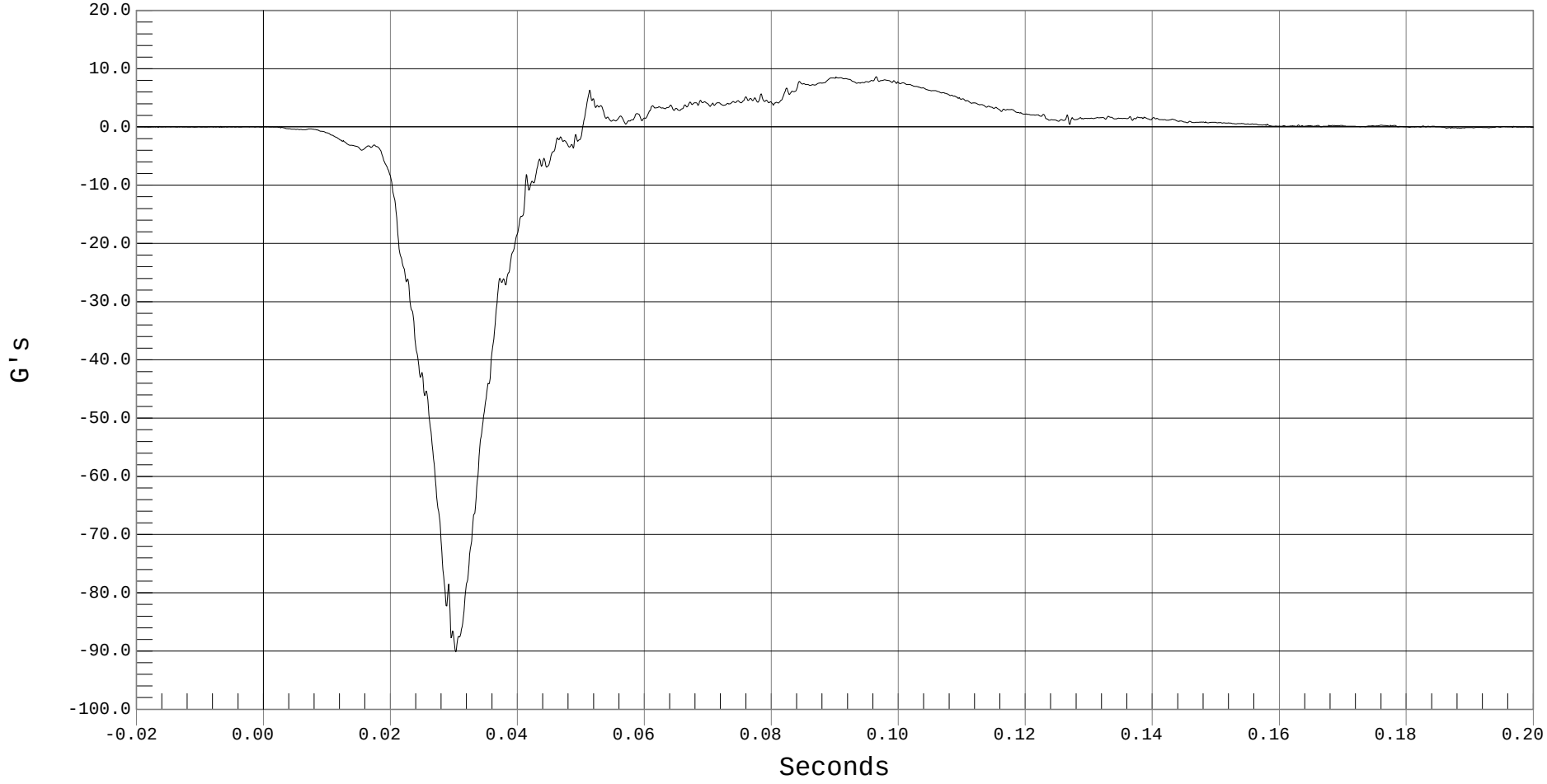
RIGHT FRONT PELVIS Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER PELVIS Y, b01051AT.A07

Ymin = -90.12 G's @ 0.0302 Seconds, Ymax = 8.64 G's @ 0.0964 Seconds



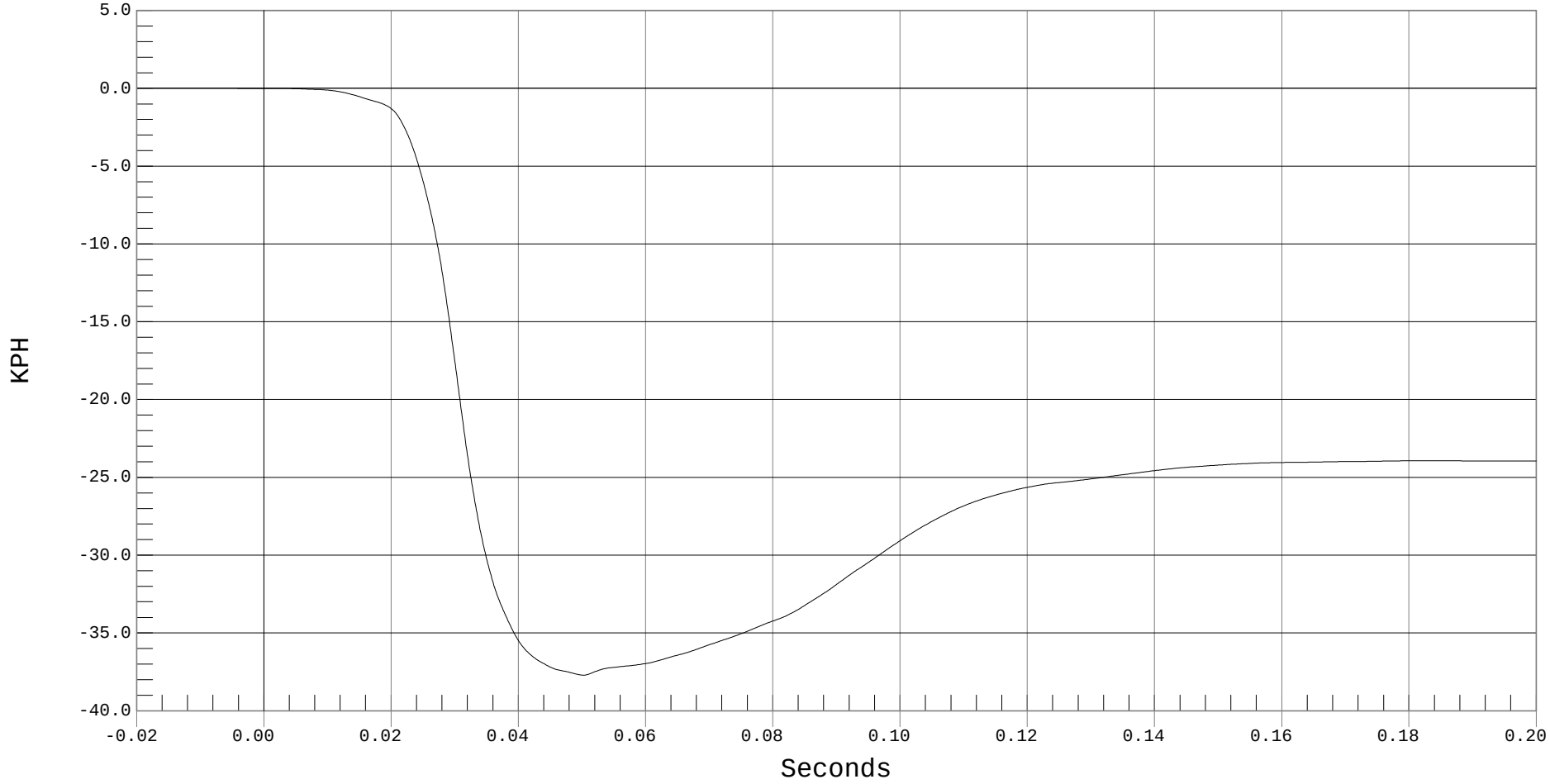
RIGHT FRONT PELVIS Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT PELVIS Y VELOCITY, b01051AI.V07

Ymin = -37.71 KPH @ 0.0501 Seconds, Ymax = 0 KPH @ -0.0138 Seconds



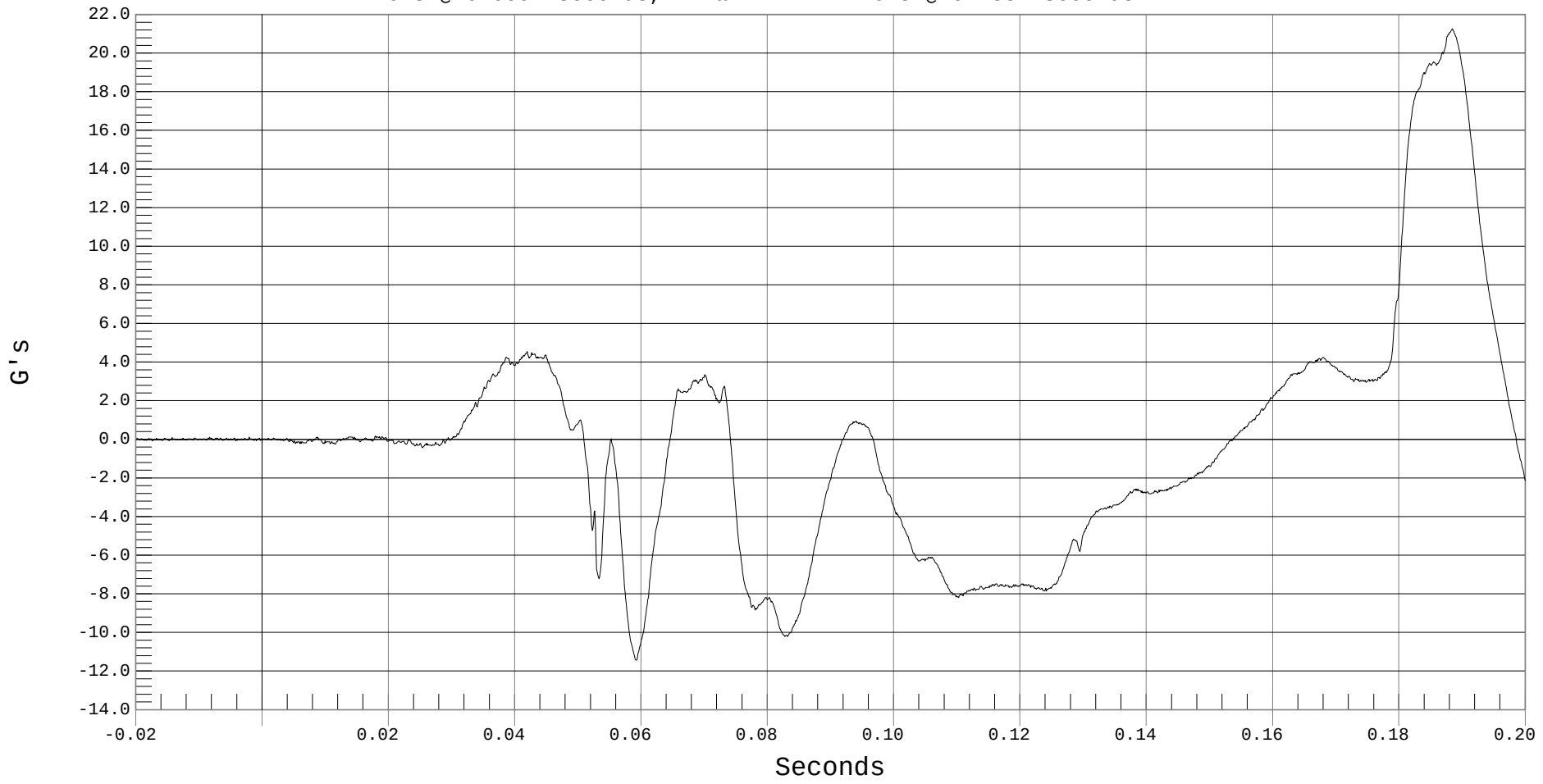
RIGHT REAR PASSENGER HEAD X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER HEAD X, b01051AT.A08

Ymin = -11.44 G's @ 0.0591 Seconds, Ymax = 21.27 G's @ 0.1884 Seconds



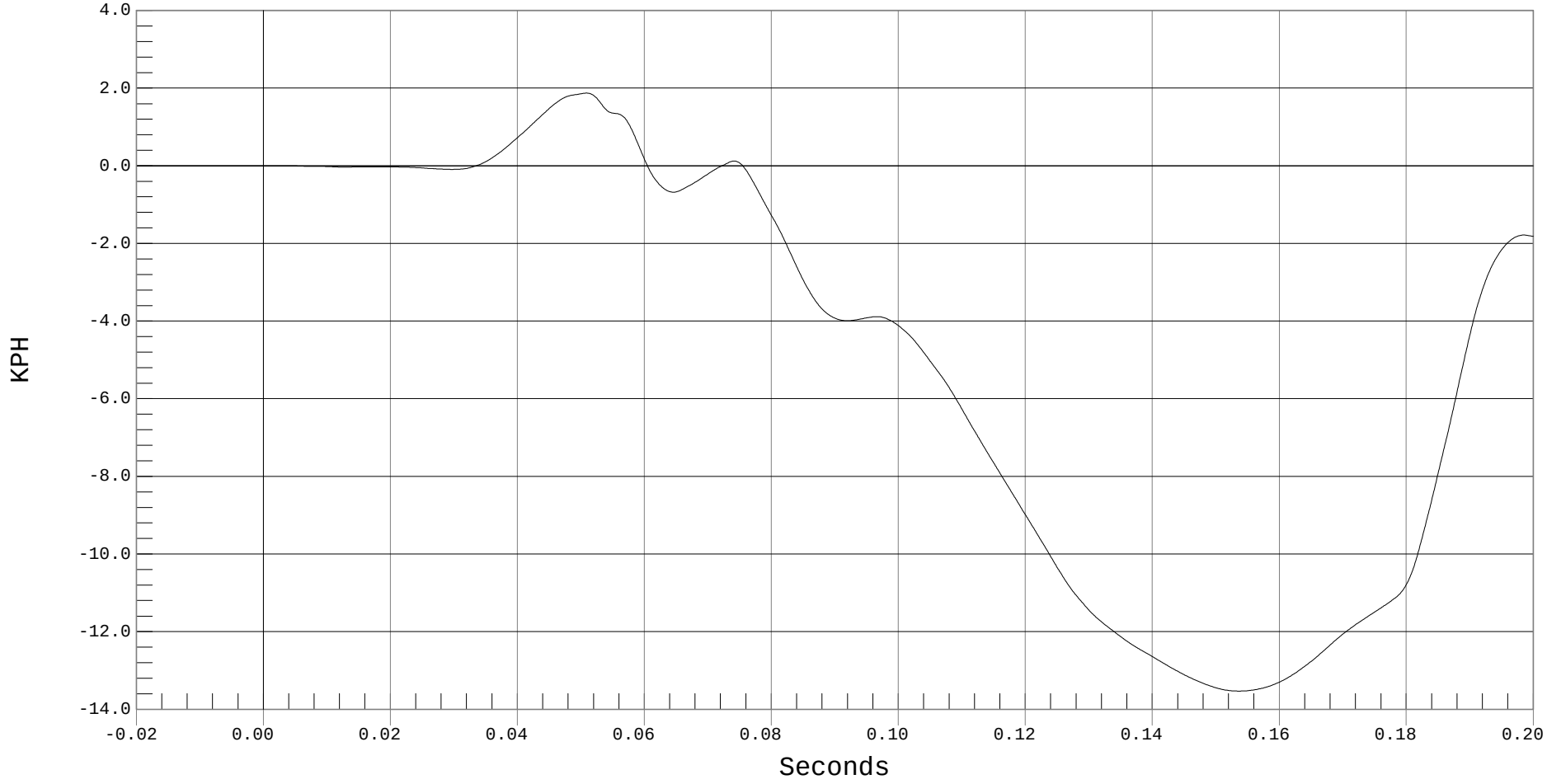
RIGHT REAR PASSENGER HEAD X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER HEAD X VELOCITY, b01051AI.V08

Ymin = -13.53 KPH @ 0.1535 Seconds, Ymax = 1.87 KPH @ 0.0508 Seconds



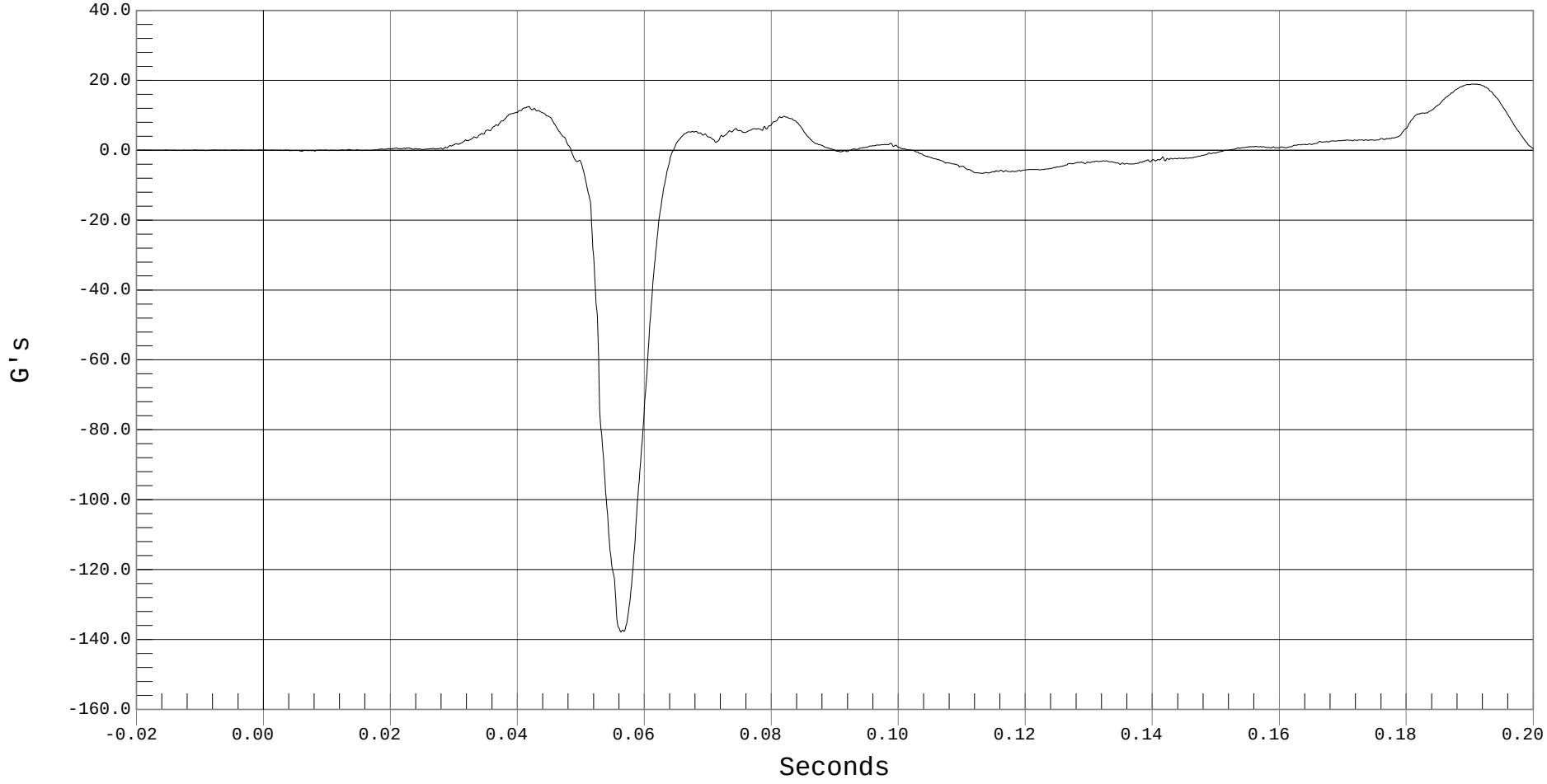
RIGHT REAR PASSENGER HEAD Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER HEAD Y, b01051AT.A09

Ymin = -137.87 G's @ 0.0562 Seconds, Ymax = 18.96 G's @ 0.1903 Seconds



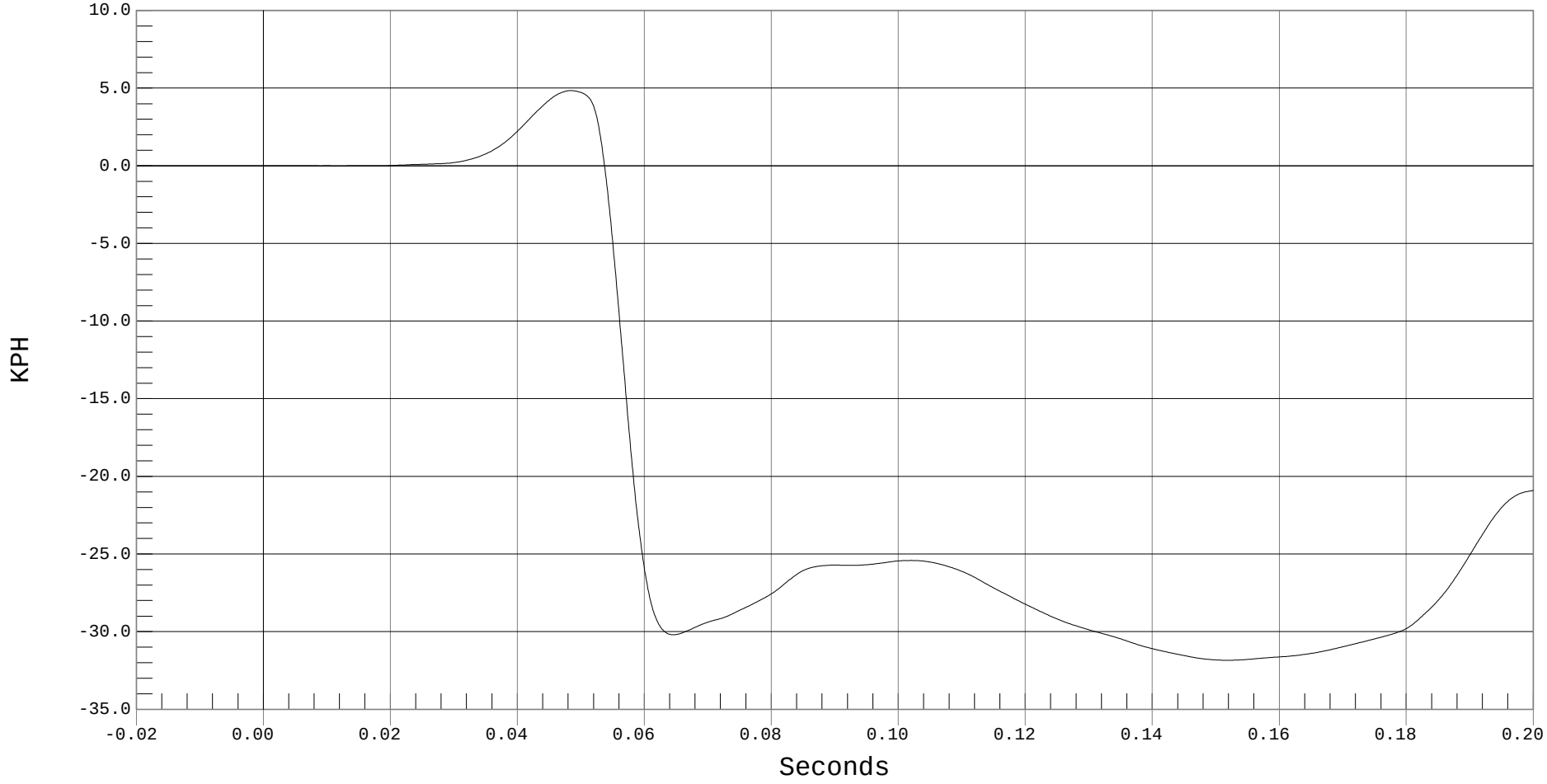
RIGHT REAR PASSENGER HEAD Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER HEAD Y VELOCITY, b01051AI.V09

Ymin = -31.84 KPH @ 0.1517 Seconds, Ymax = 4.84 KPH @ 0.0483 Seconds



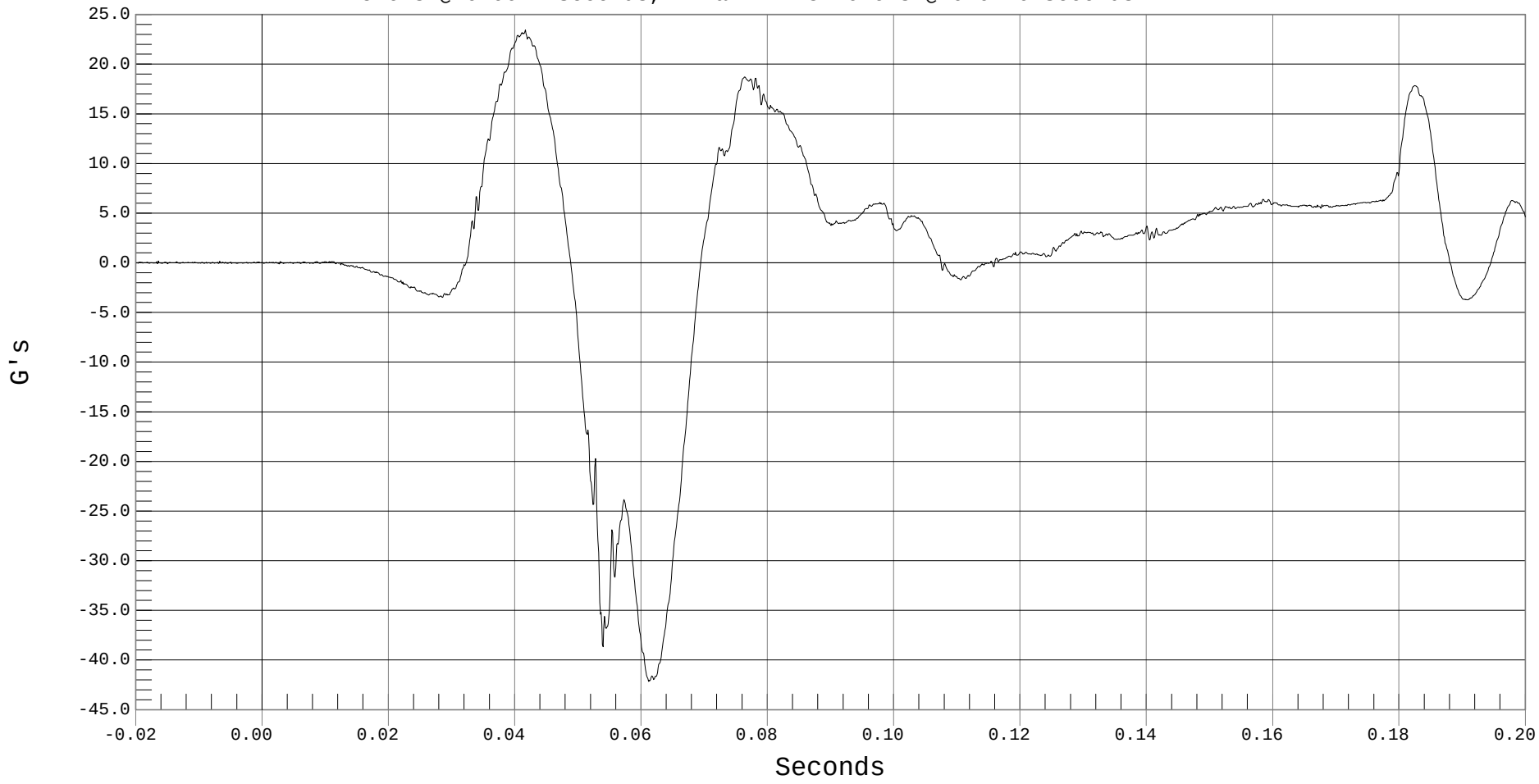
RIGHT REAR PASSENGER HEAD Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER HEAD Z, b01051AT.A10

Ymin = -42.15 G's @ 0.0611 Seconds, Ymax = 23.46 G's @ 0.0416 Seconds



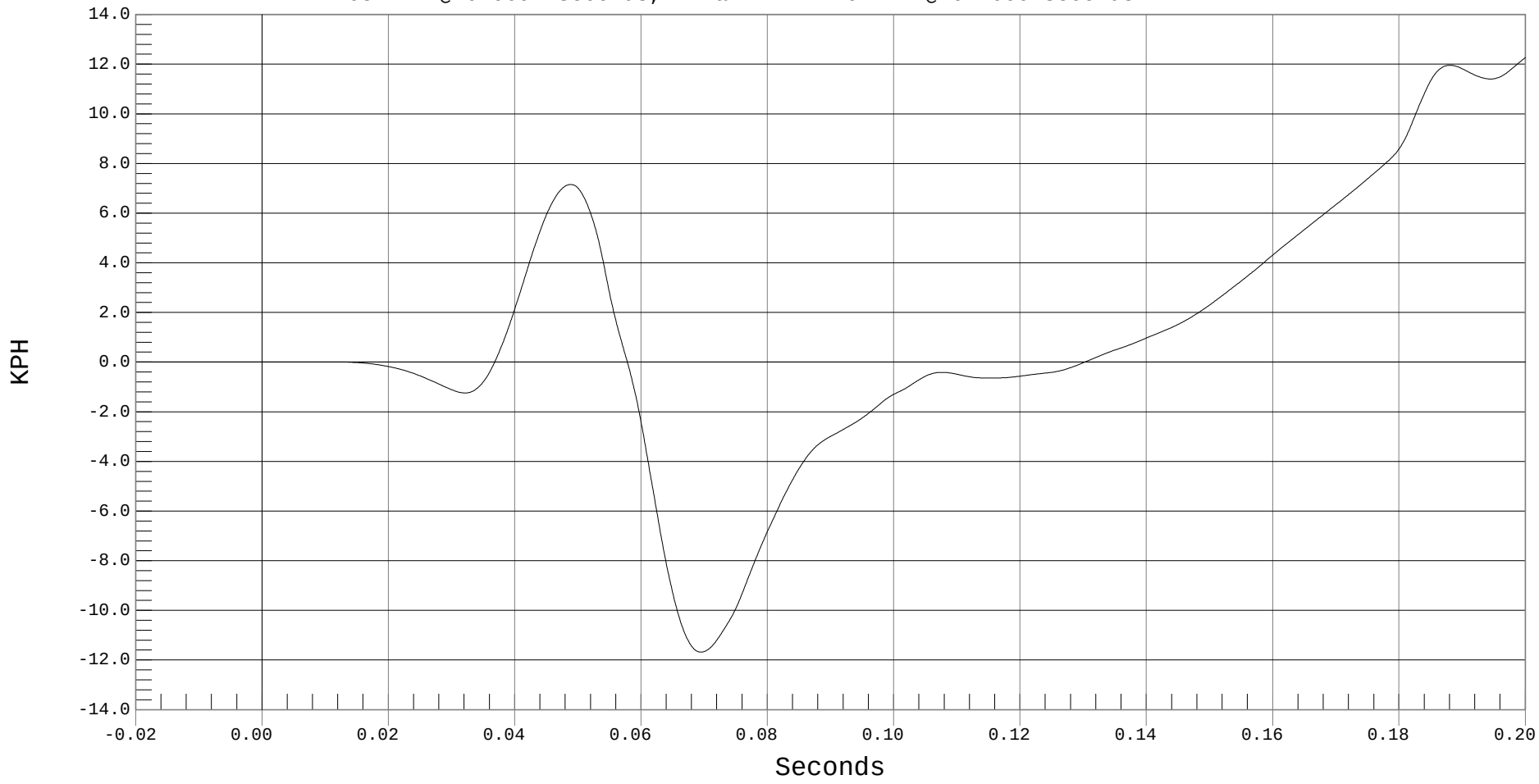
RIGHT REAR PASSENGER HEAD Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER HEAD Z VELOCITY, b01051AI.V10

Ymin = -11.68 KPH @ 0.0694 Seconds, Ymax = 12.29 KPH @ 0.2000 Seconds



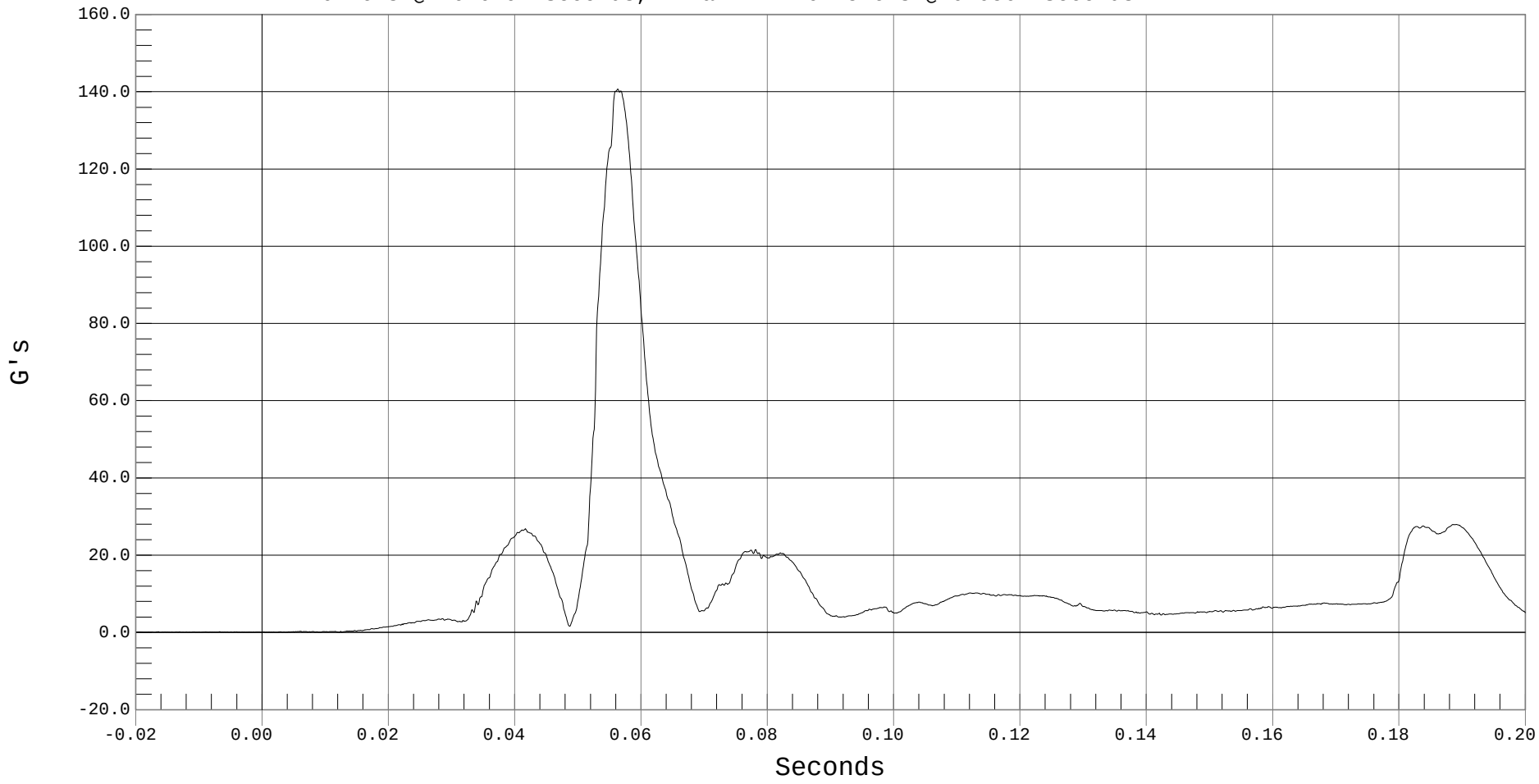
RIGHT REAR PASSENGER HEAD RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER HEAD RESULTANT, b01051AV.A08

Ymin = .02 G's @ -0.0192 Seconds, Ymax = 140.75 G's @ 0.0562 Seconds



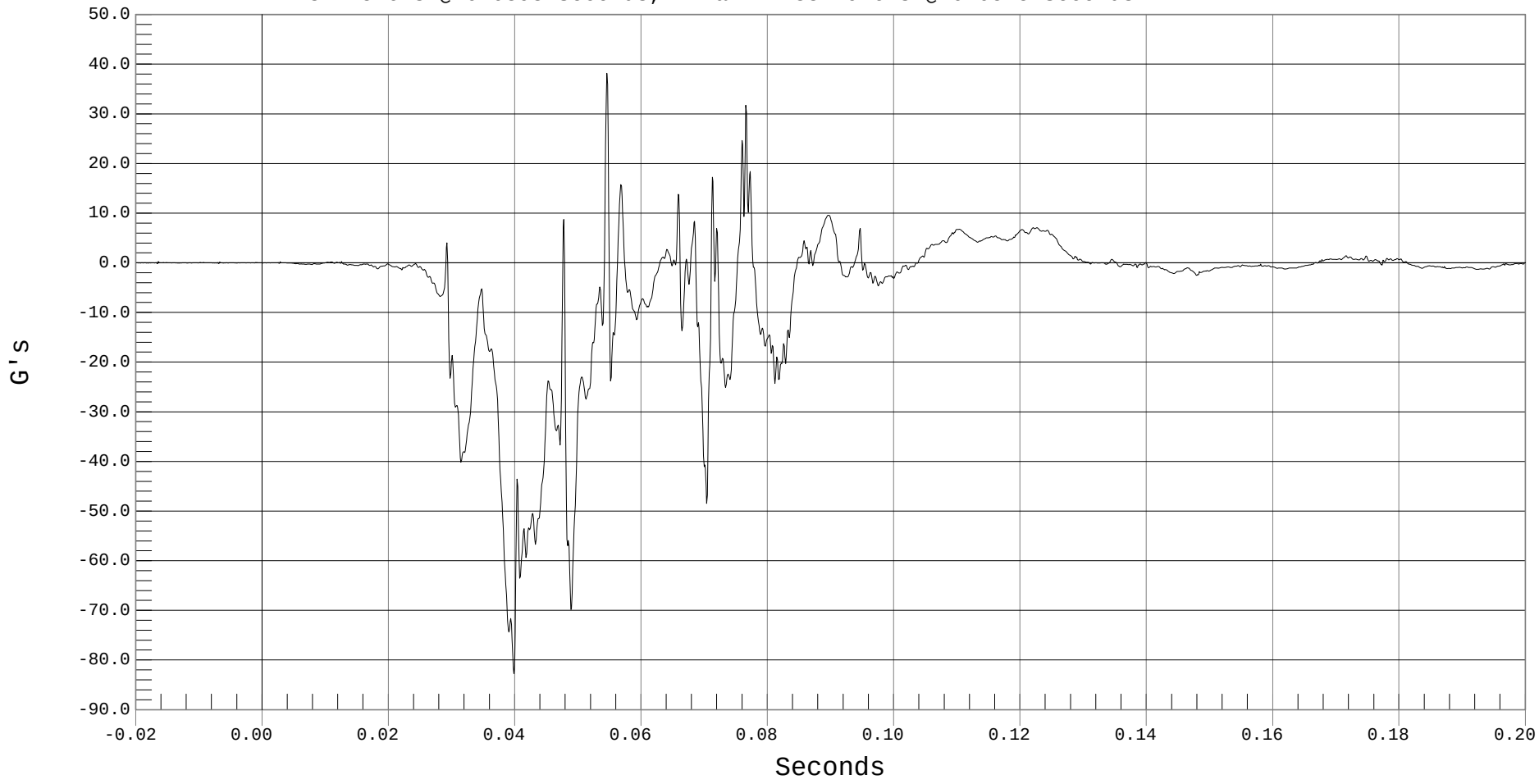
RIGHT REAR PASSENGER UPPER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER UPPER RIB Y, b01051AT.A11

Ymin = -82.75 G's @ 0.0398 Seconds, Ymax = 38.19 G's @ 0.0545 Seconds



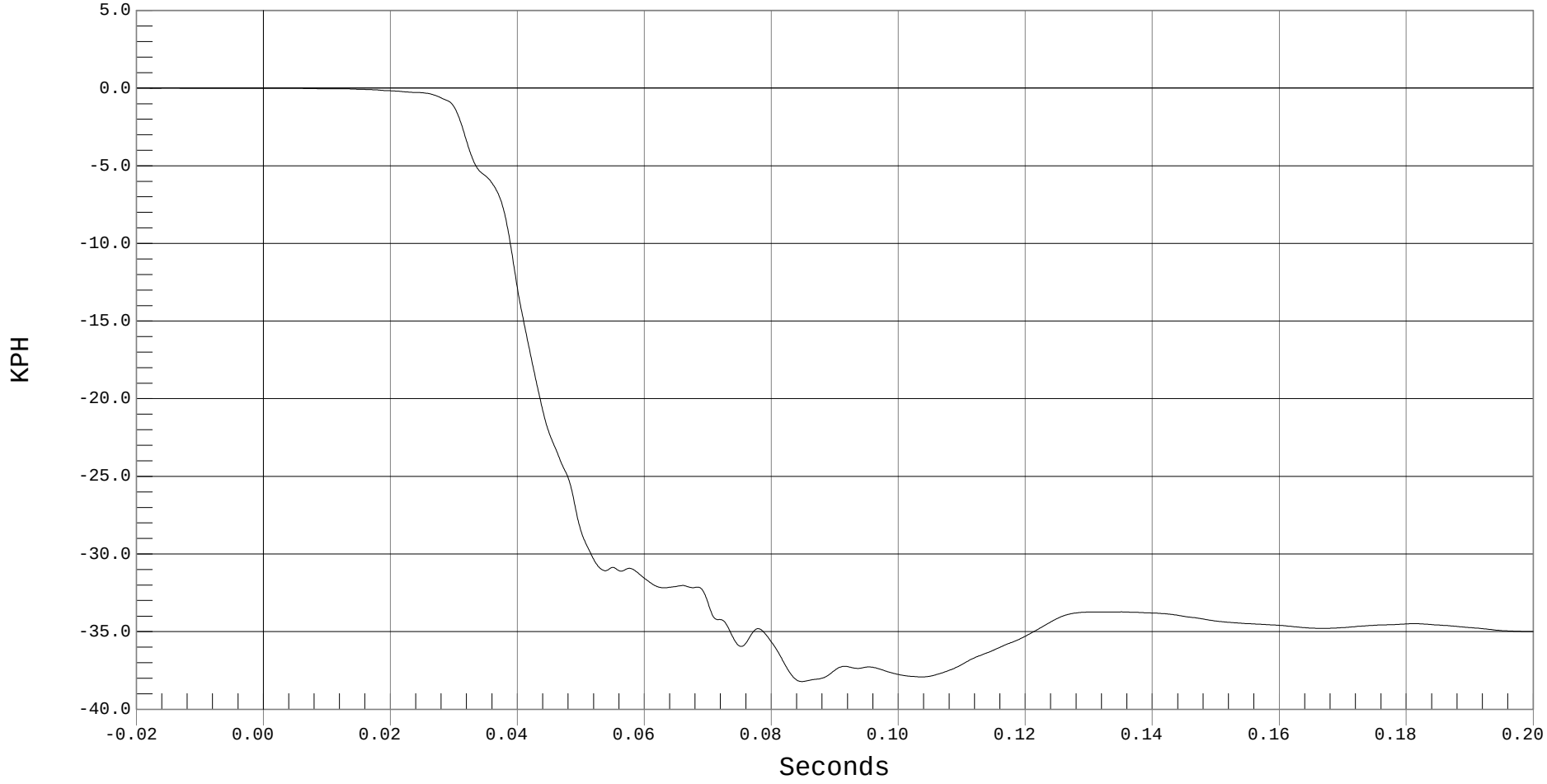
RIGHT REAR PASSENGER UPPER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER UPPER RIB Y VELOCITY, b01051AI.V11

Ymin = -38.21 KPH @ 0.0847 Seconds, Ymax = 0 KPH @ -0.0199 Seconds



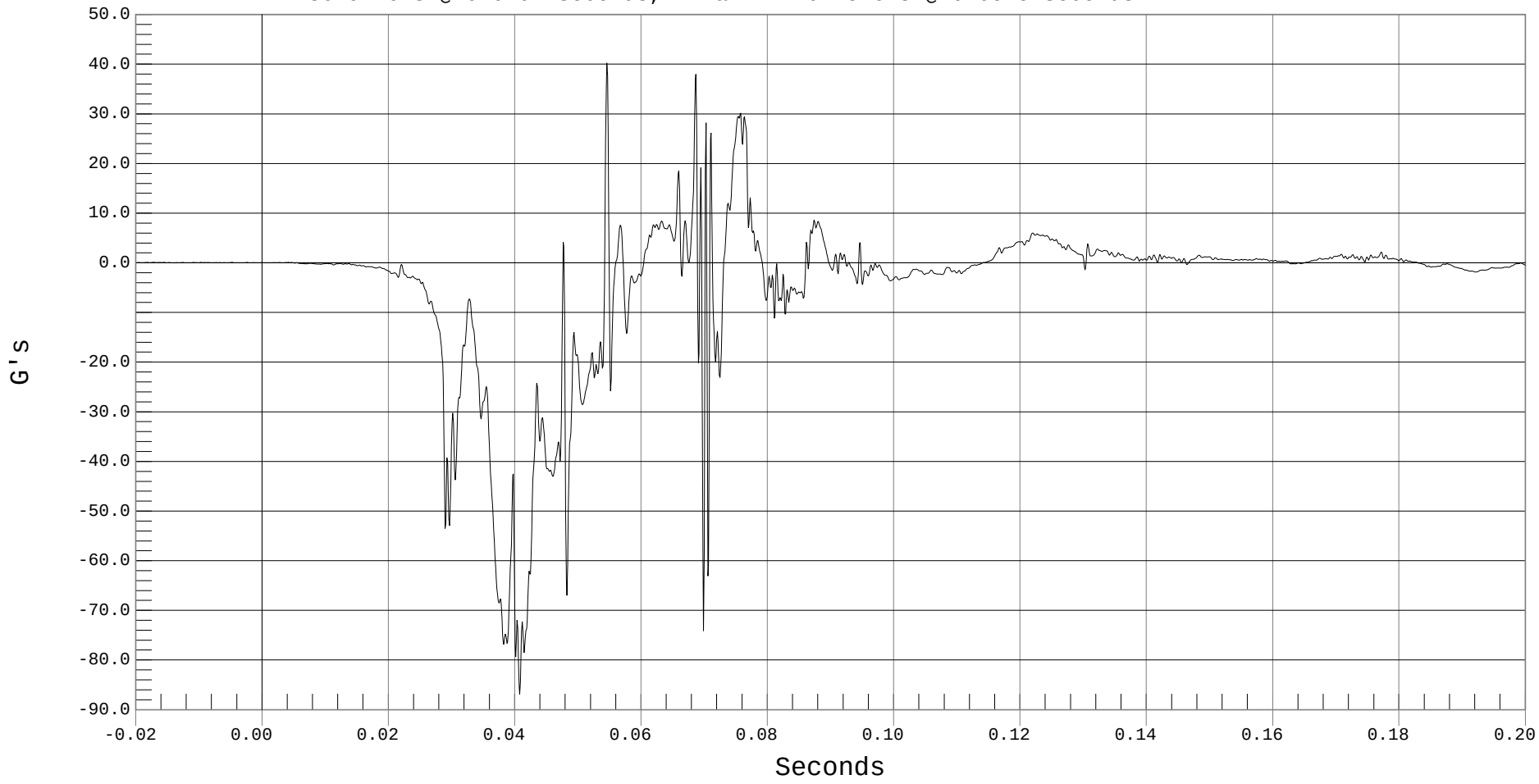
RIGHT REAR PASSENGER LOWER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER LOWER RIB Y, b01051AT.A12

Ymin = -86.92 G's @ 0.0407 Seconds, Ymax = 40.25 G's @ 0.0545 Seconds



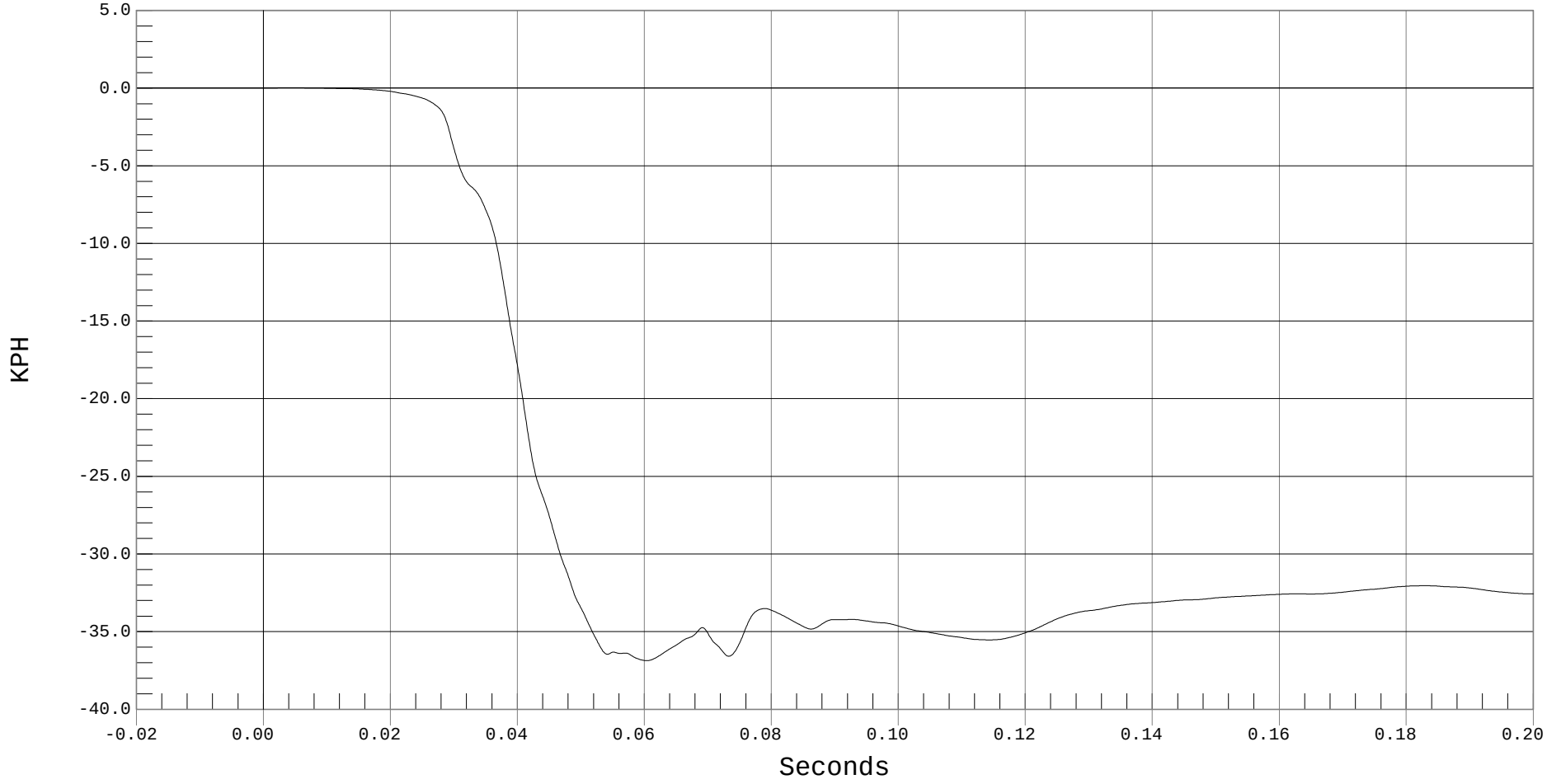
RIGHT REAR PASSENGER LOWER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER LOWER RIB Y VELOCITY, b01051AI.V12

Ymin = -36.87 KPH @ 0.0603 Seconds, Ymax = .02 KPH @ 0.0050 Seconds



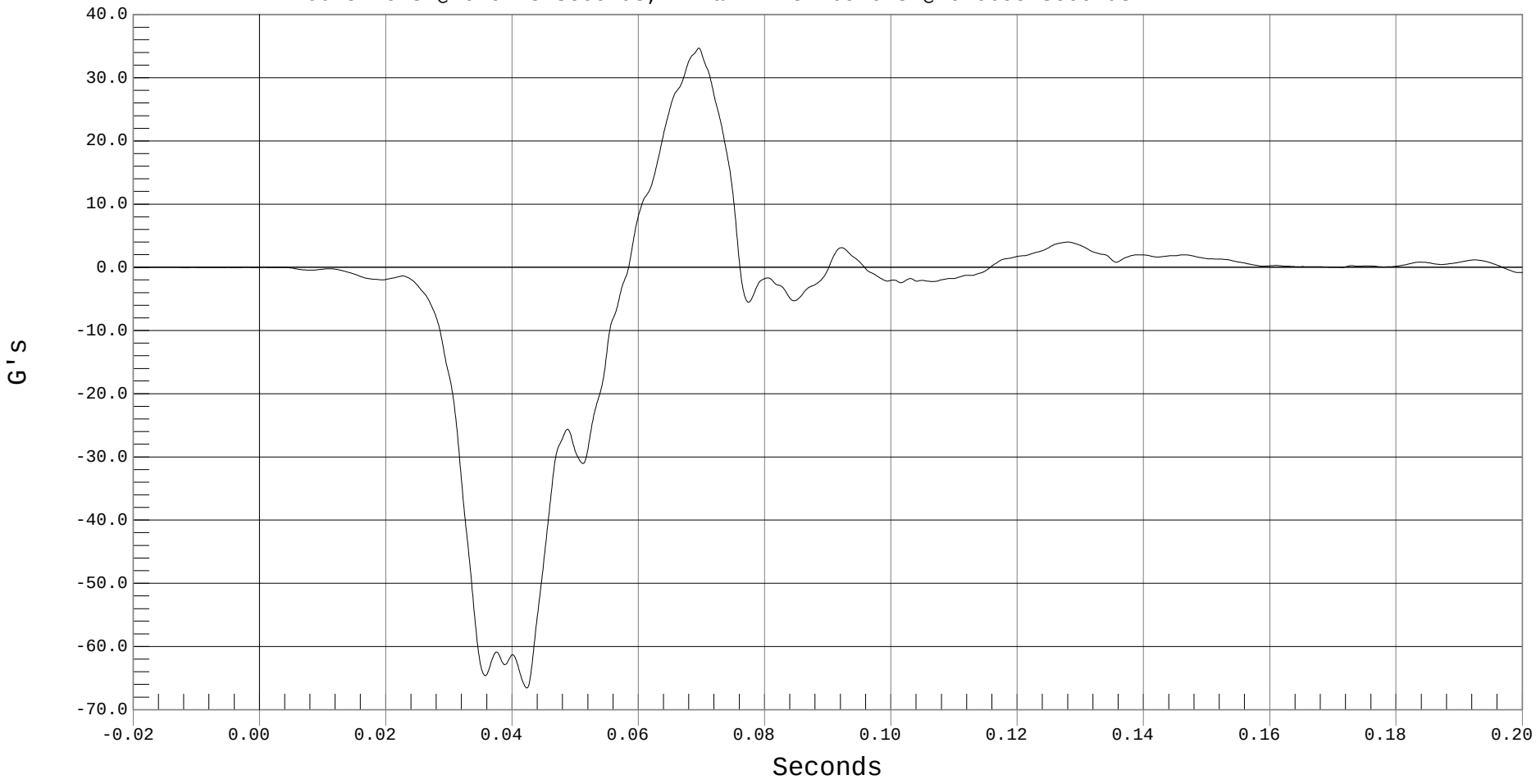
RIGHT REAR PASSENGER LOWER SPINE Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER LOWER SPINE Y, b01051AF.A13

Ymin = -66.57 G's @ 0.0423 Seconds, Ymax = 34.69 G's @ 0.0695 Seconds



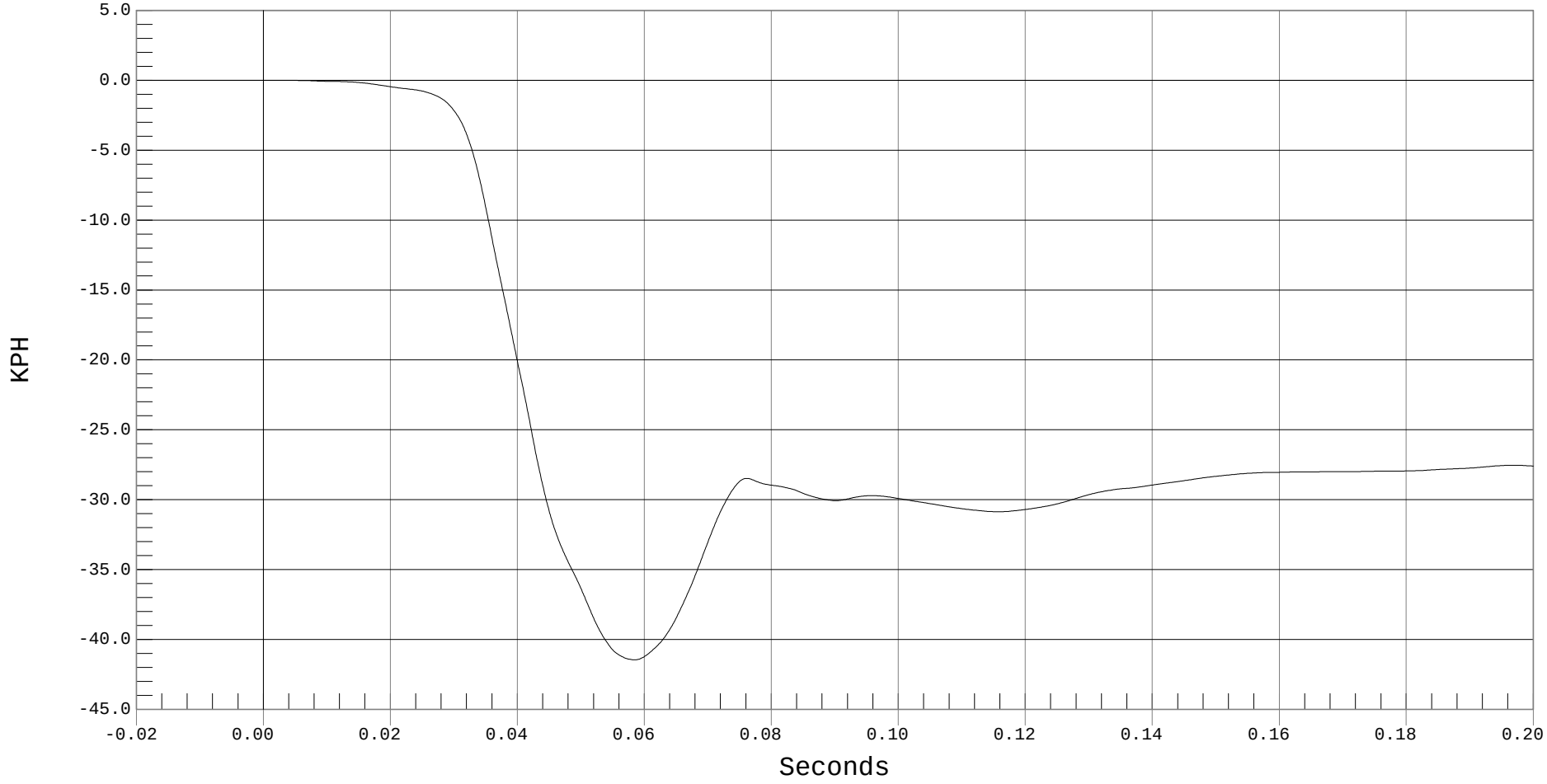
RIGHT REAR PASSENGER LOWER SPINE Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER LOWER SPINE Y VELOCITY, b01051AI.V13

Ymin = -41.46 KPH @ 0.0584 Seconds, Ymax = 0 KPH @ -0.0127 Seconds



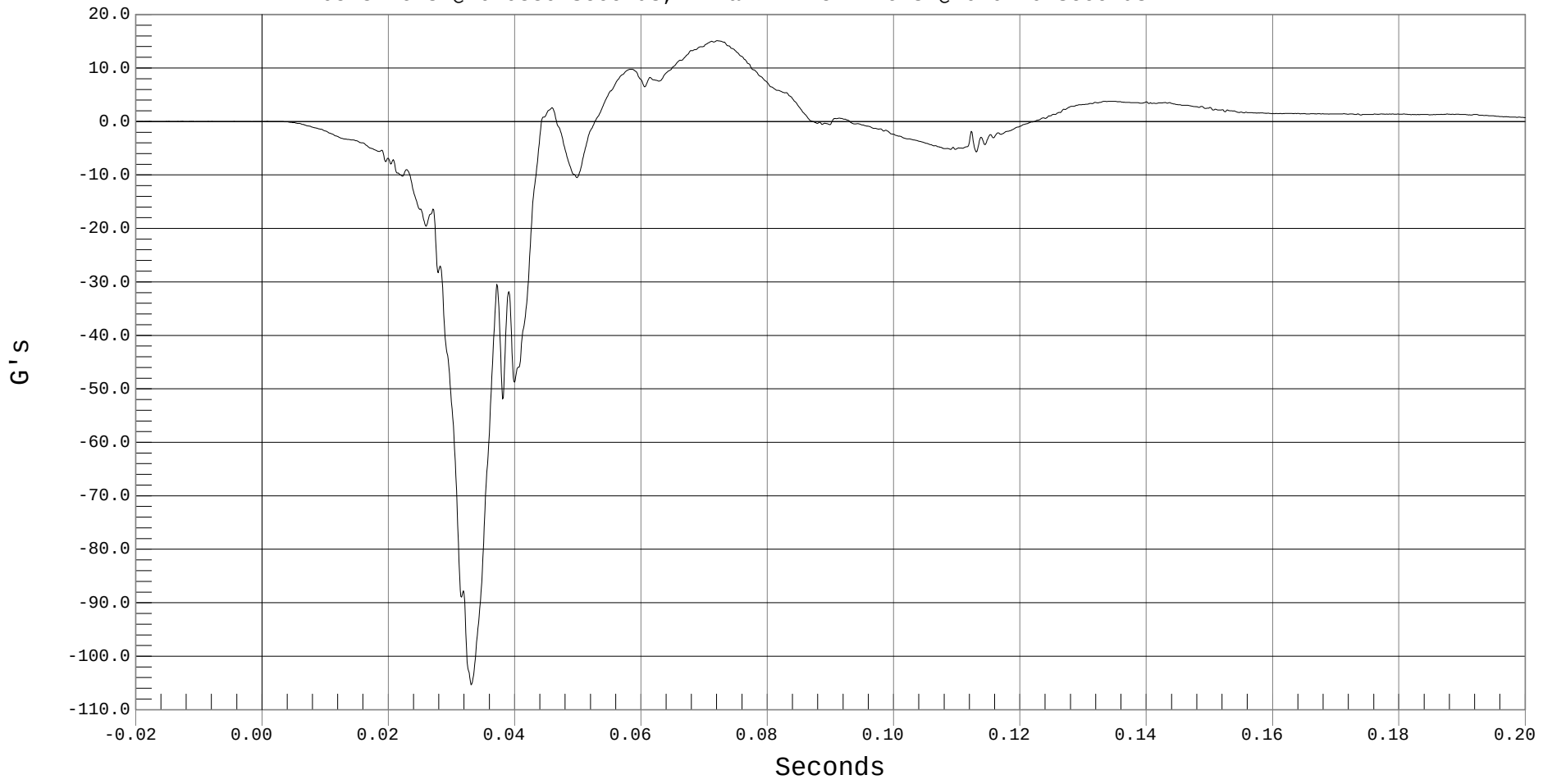
RIGHT REAR PASSENGER PELVIS Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER PELVIS Y, b01051AT.A14

Ymin = -105.32 G's @ 0.0330 Seconds, Ymax = 15.11 G's @ 0.0720 Seconds



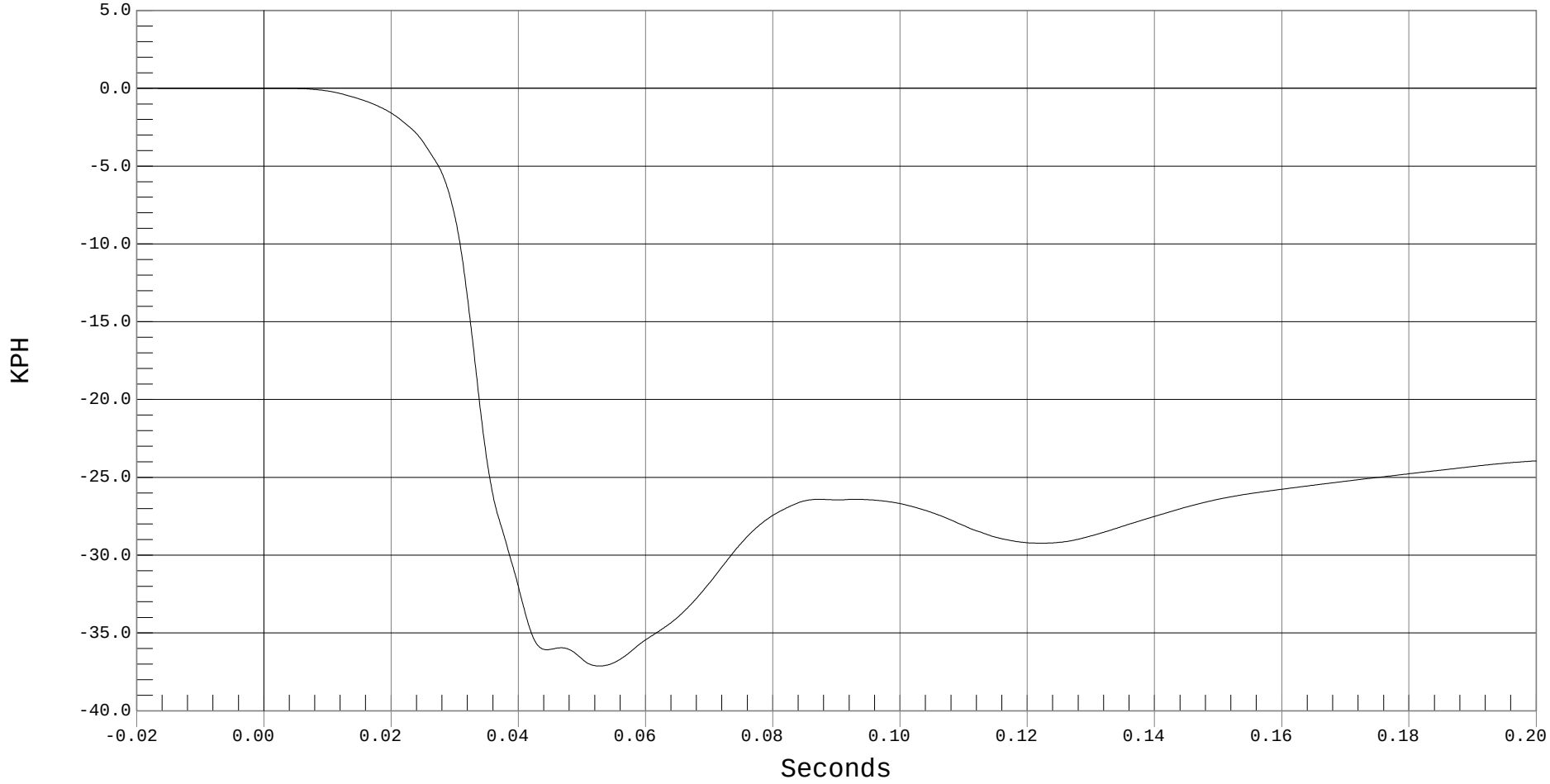
RIGHT REAR PASSENGER PELVIS Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER PELVIS Y VELOCITY, b01051AI.V14

Ymin = -37.12 KPH @ 0.0526 Seconds, Ymax = 0 KPH @ -0.0199 Seconds



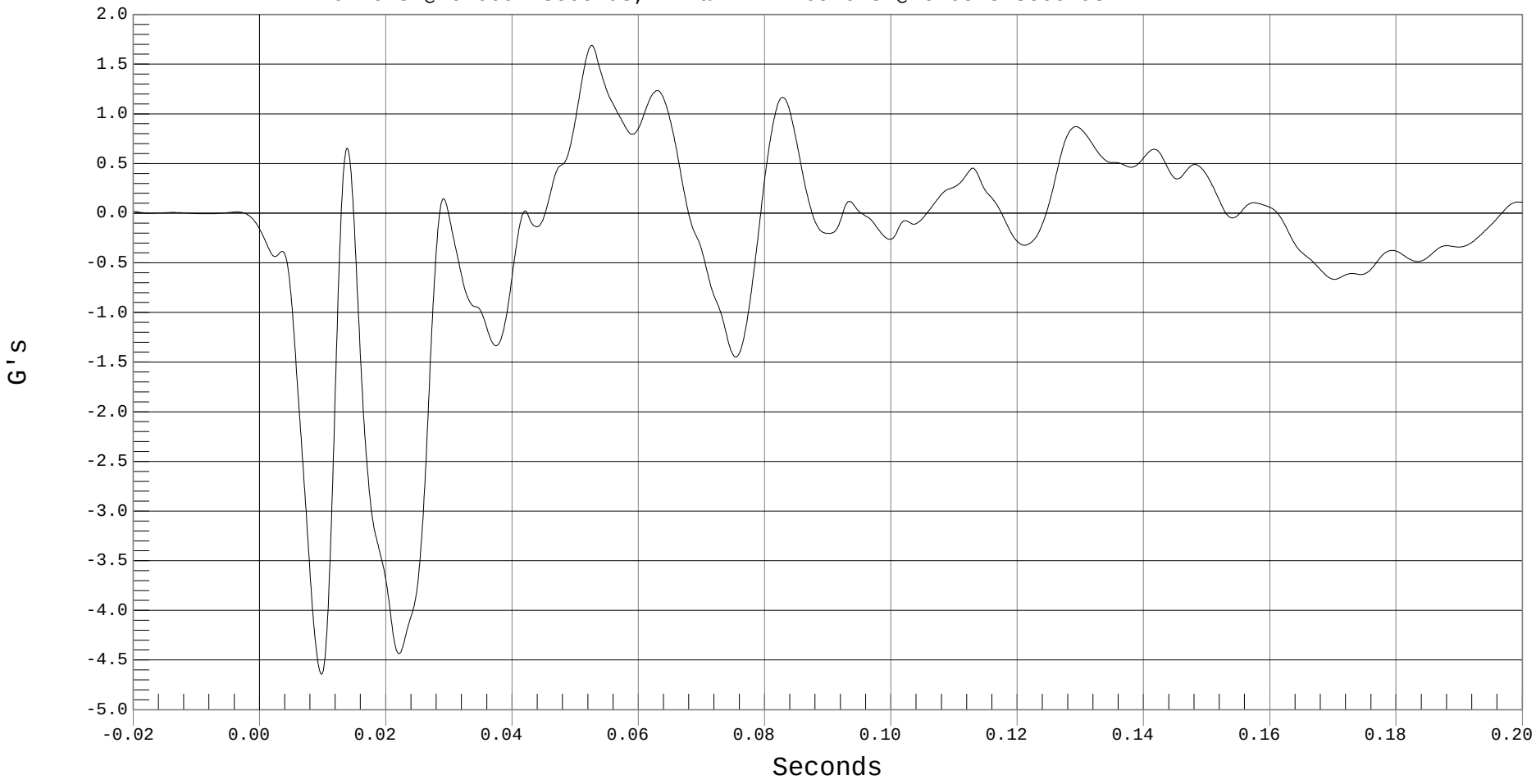
LEFT SIDE SILL AT FRONT SEAT X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT FRONT SILL X, b01051AF.A15

Ymin = -4.64 G's @ 0.0097 Seconds, Ymax = 1.69 G's @ 0.0525 Seconds



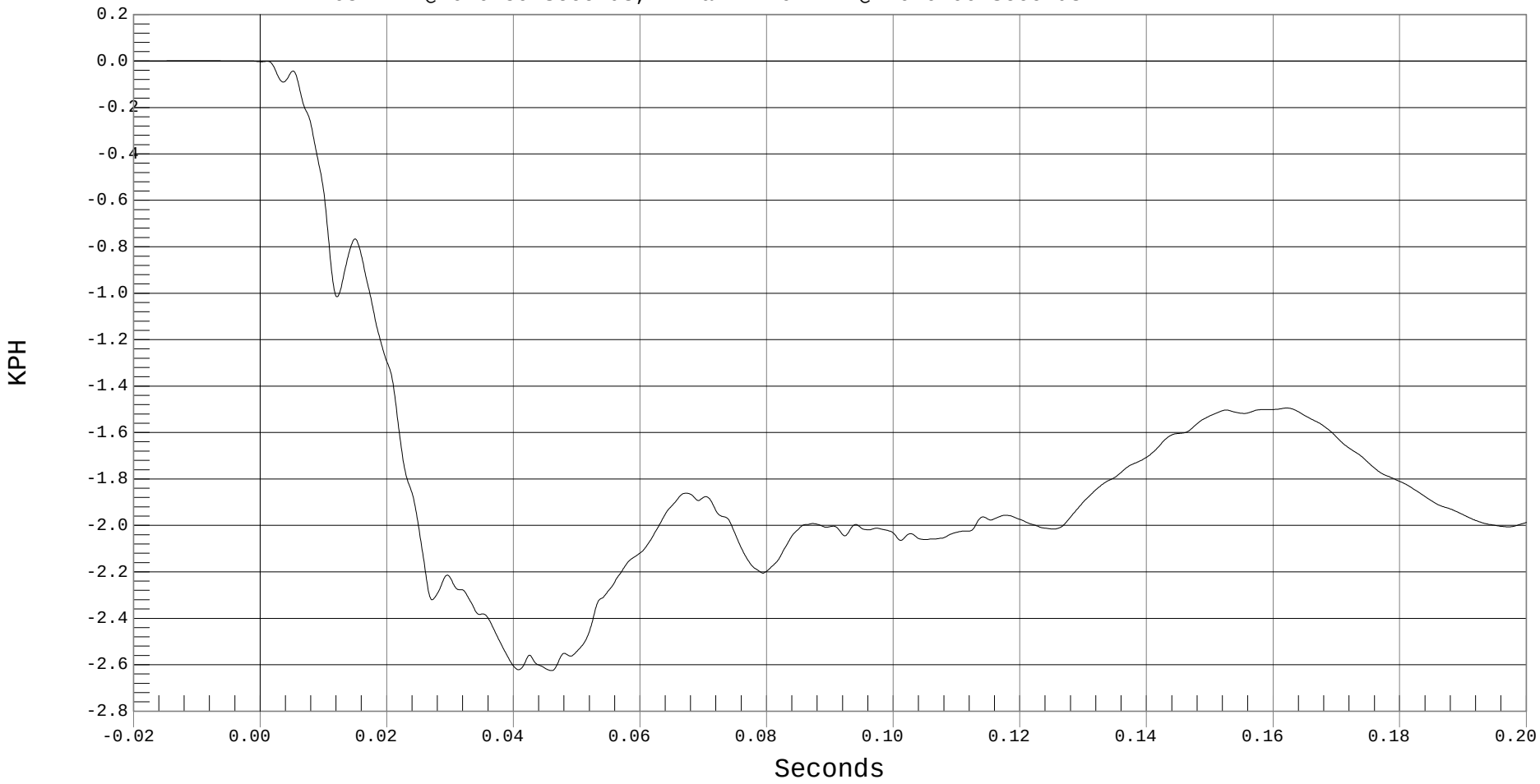
LEFT SIDE SILL AT FRONT SEAT X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT SIDE SILL AT FRONT SEAT X VELOCITY, b01051AI.V15

Ymin = -2.63 KPH @ 0.0459 Seconds, Ymax = 0 KPH @ -0.0106 Seconds



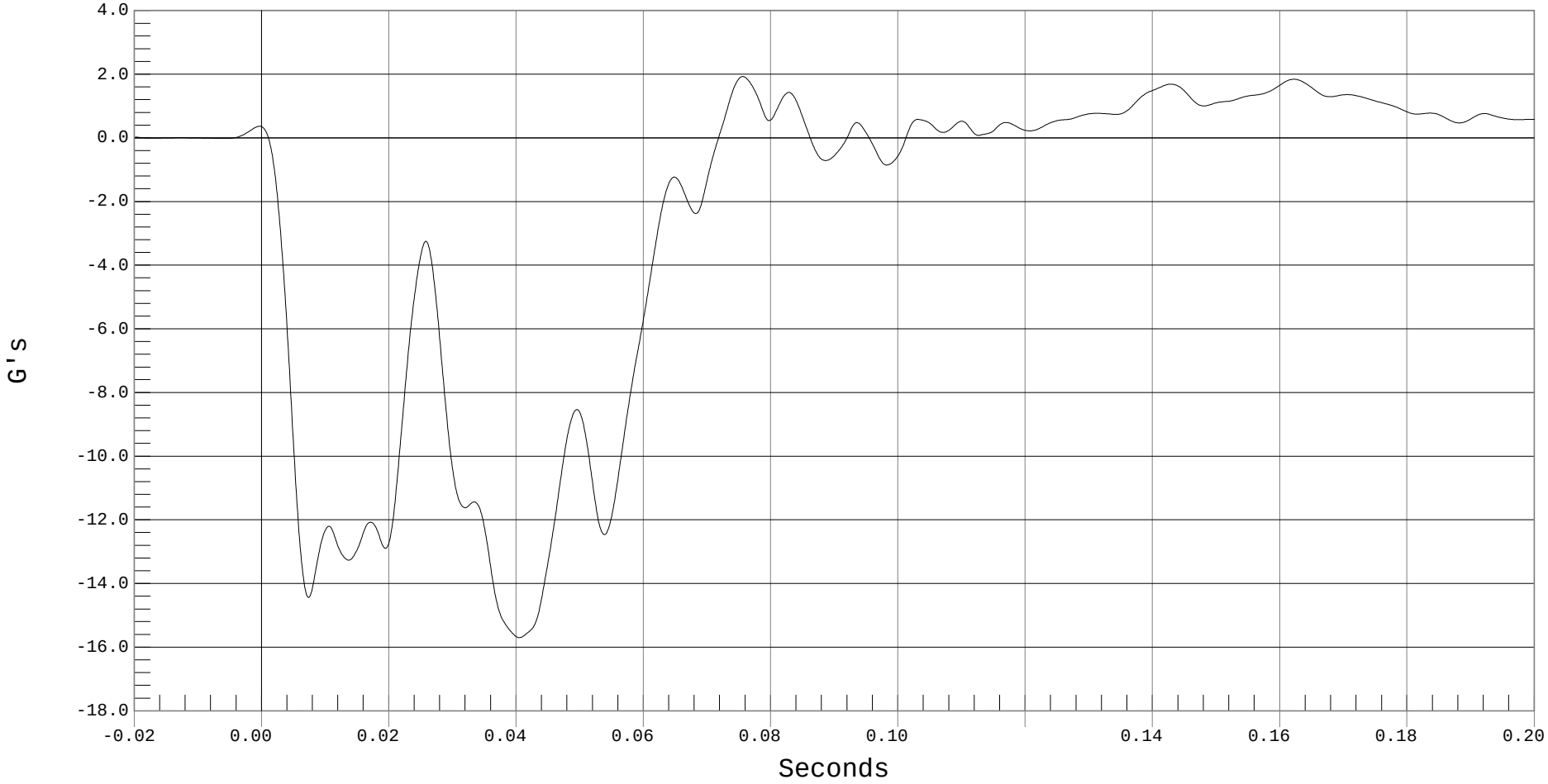
LEFT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT FRONT SILL Y, b01051AF.A16

Ymin = -15.7 G's @ 0.0404 Seconds, Ymax = 1.93 G's @ 0.0755 Seconds



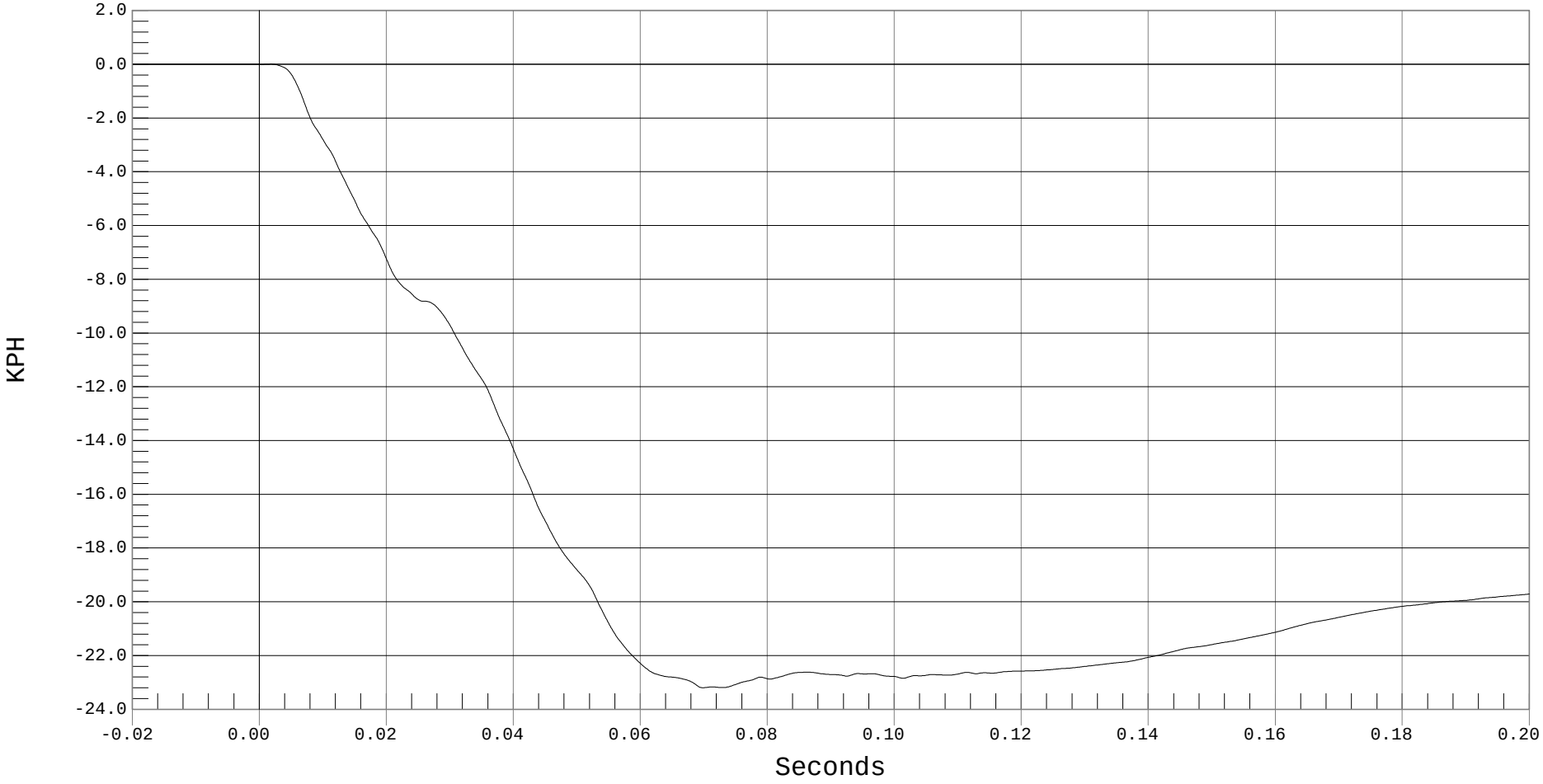
LEFT SIDE SILL AT FRONT SEAT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT SIDE SILL AT FRONT SEAT Y VELOCITY, b01051AI.V16

Ymin = -23.2 KPH @ 0.0697 Seconds, Ymax = .01 KPH @ 0.0018 Seconds



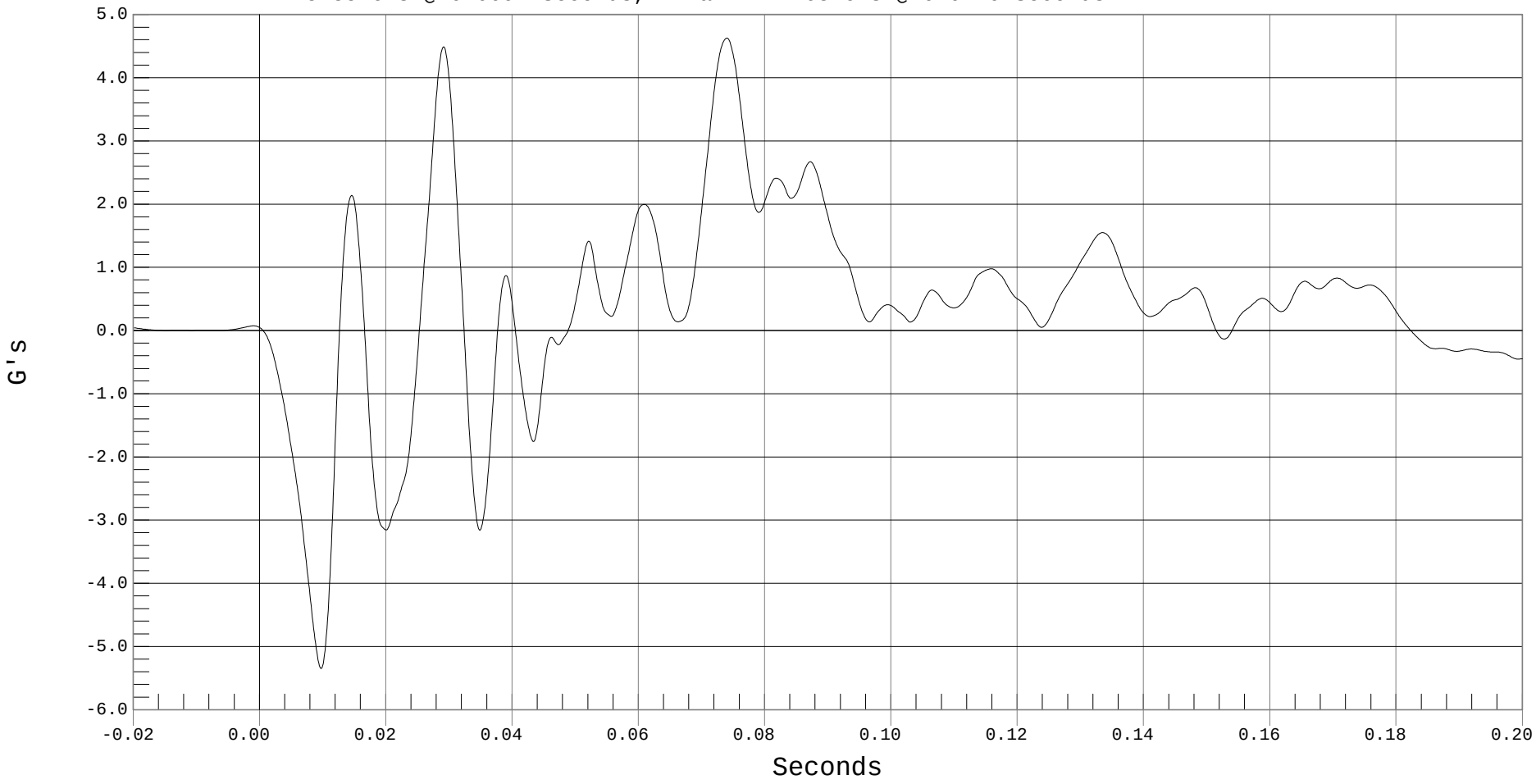
LEFT SIDE SILL AT FRONT SEAT Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT FRONT SILL Z, b01051AF.A17

Ymin = -5.35 G's @ 0.0097 Seconds, Ymax = 4.63 G's @ 0.0740 Seconds



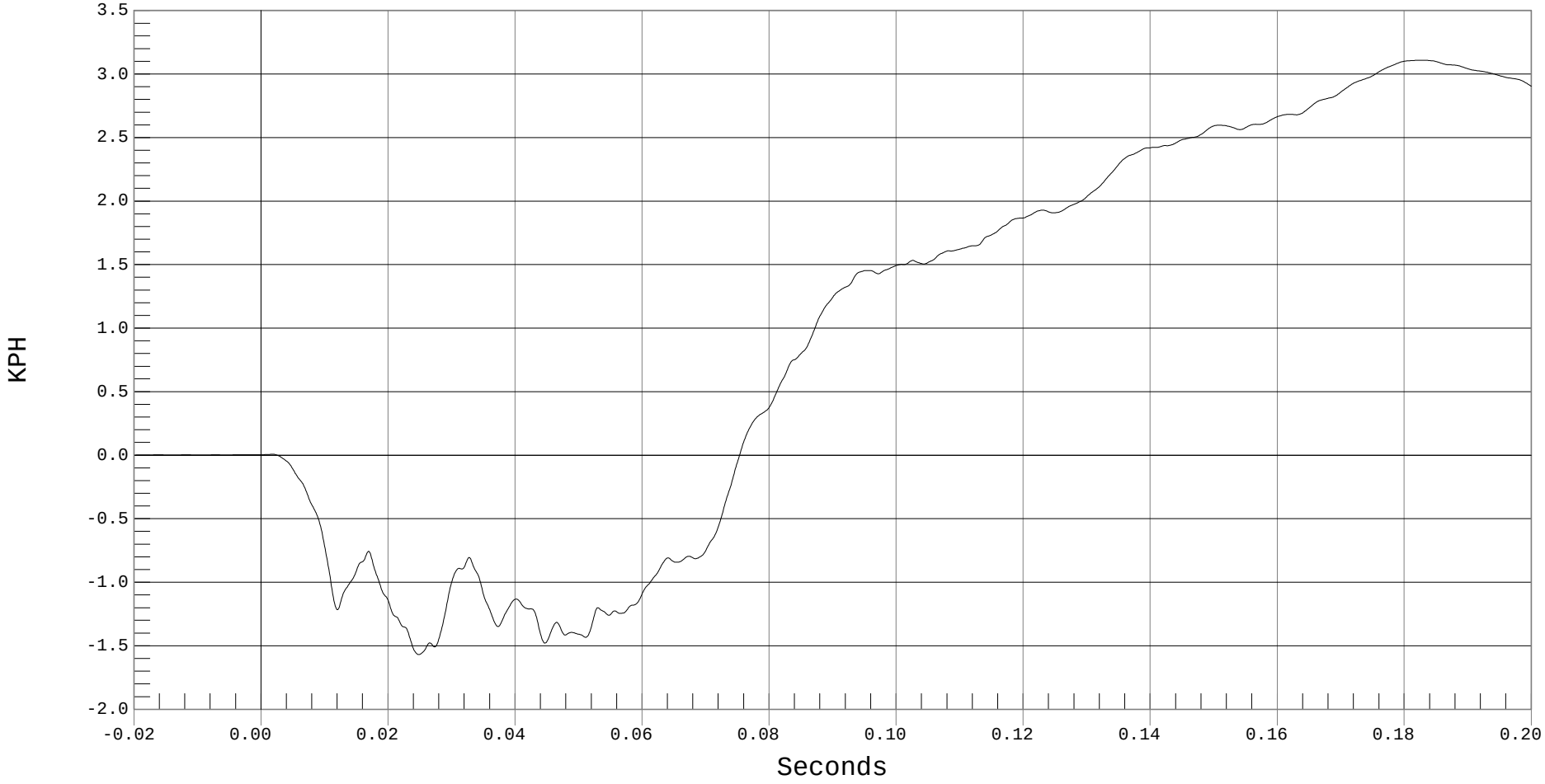
LEFT SIDE SILL AT FRONT SEAT Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT SIDE SILL AT FRONT SEAT Z VELOCITY, b01051AI.V17

Ymin = -1.57 KPH @ 0.0248 Seconds, Ymax = 3.11 KPH @ 0.1827 Seconds



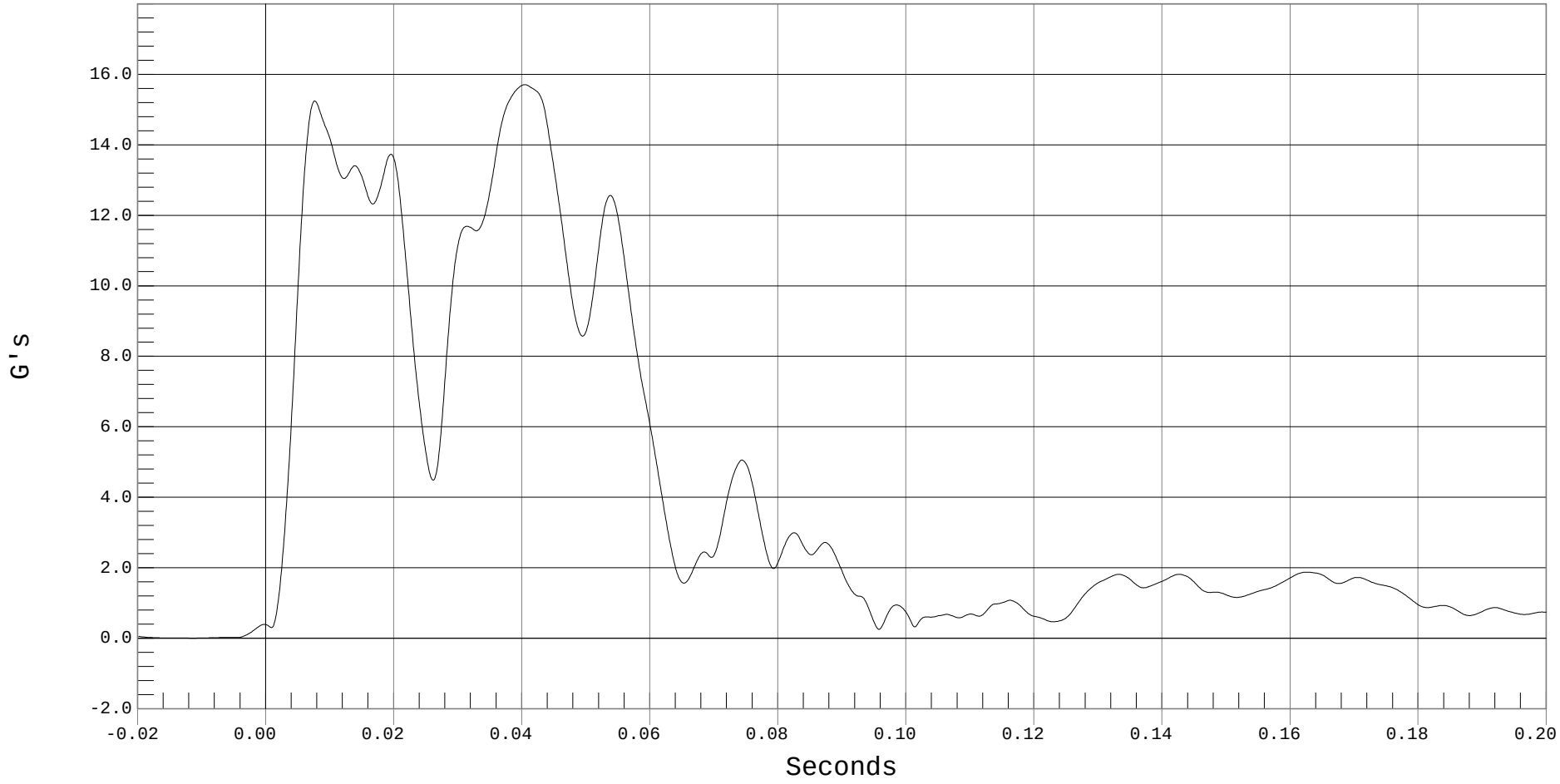
LEFT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION, b01051AV.A15

Ymin = 0 G's @ -0.0114 Seconds, Ymax = 15.71 G's @ 0.0404 Seconds



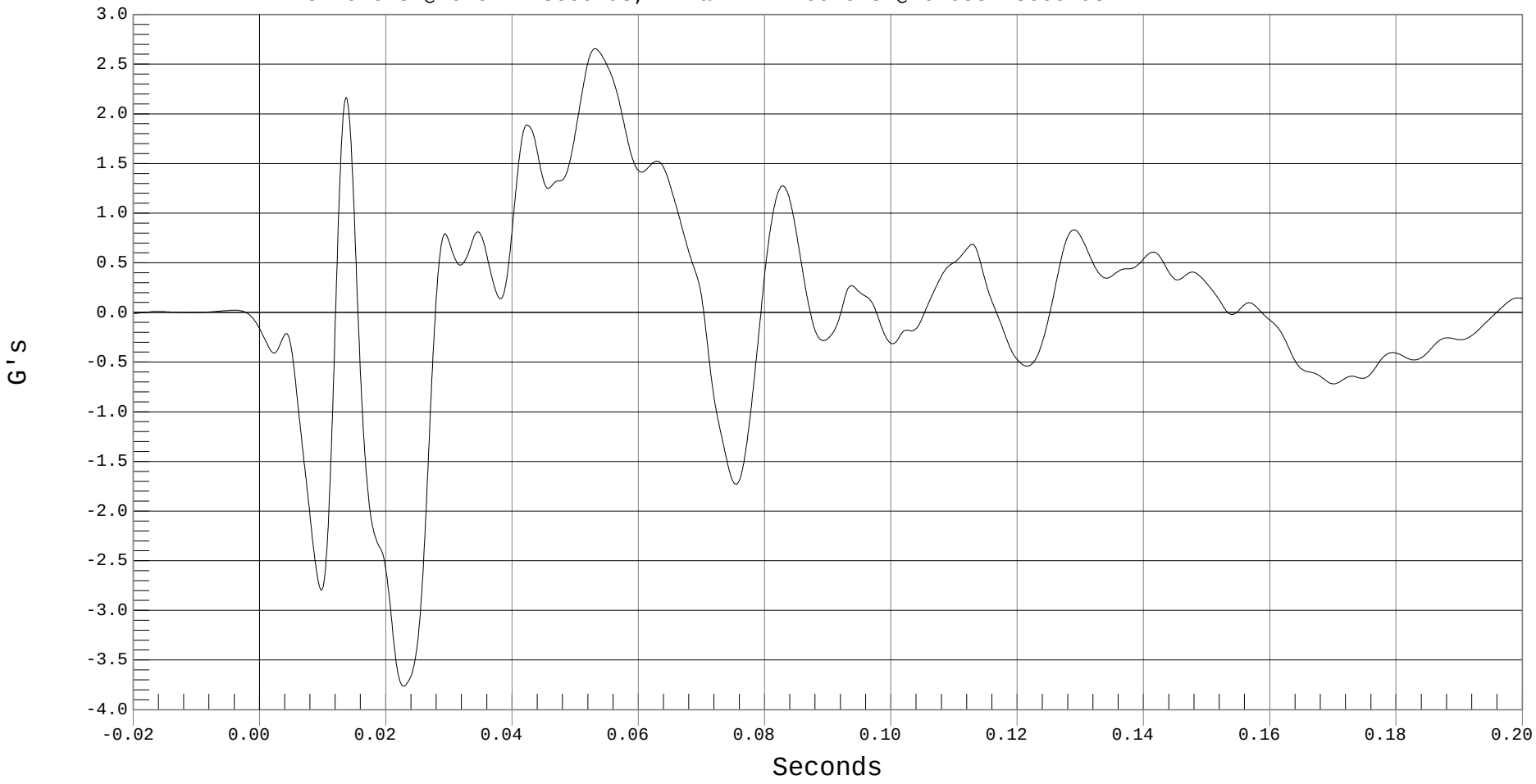
LEFT SIDE SILL AT REAR SEAT X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT REAR SILL X, b01051AF.A18

Ymin = -3.76 G's @ 0.0227 Seconds, Ymax = 2.66 G's @ 0.0531 Seconds



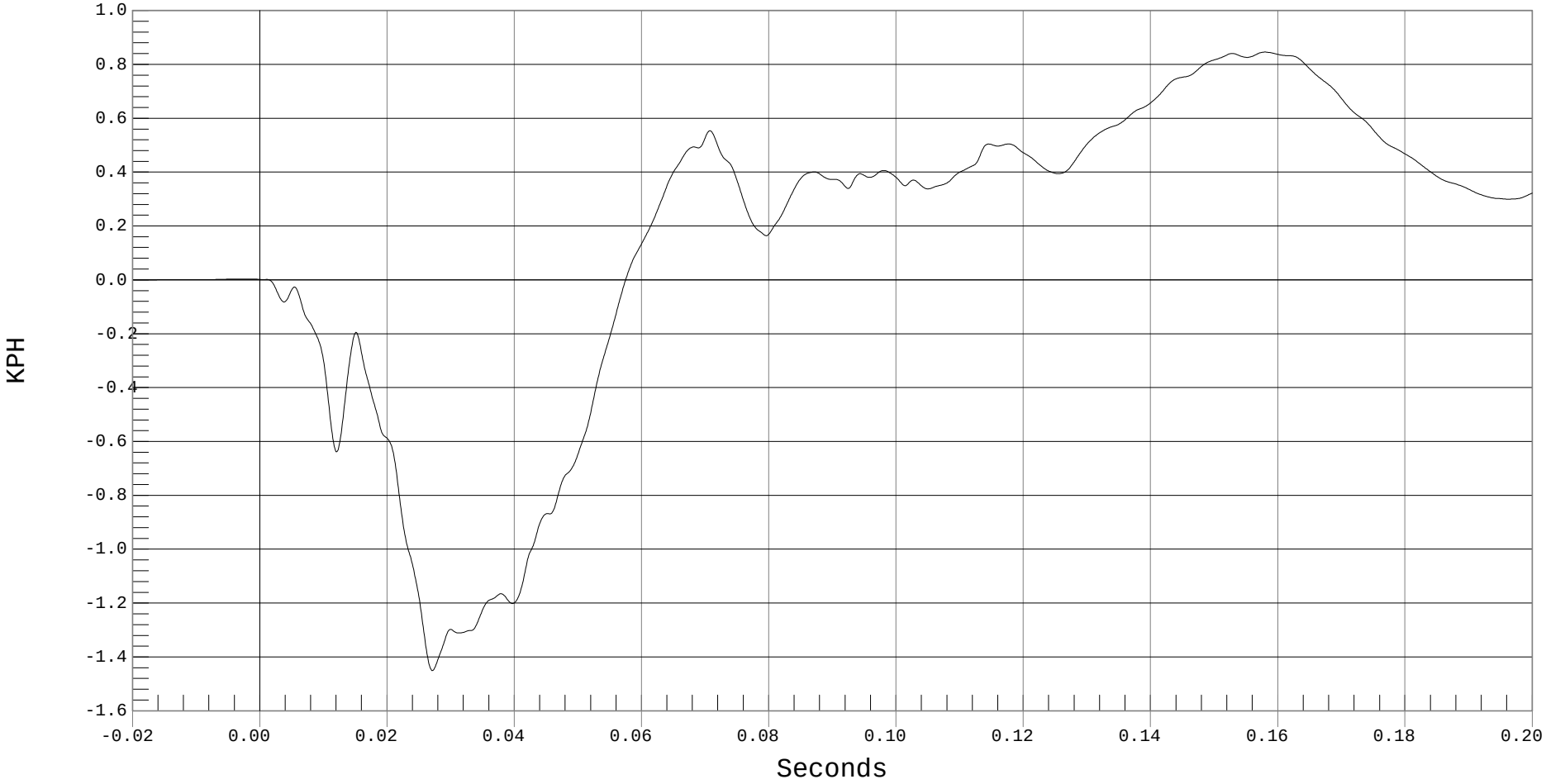
LEFT SIDE SILL AT REAR SEAT X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT SIDE SILL AT RIGHT REAR SEAT X VELOCITY, b01051AI.V18

Ymin = -1.45 KPH @ 0.0270 Seconds, Ymax = .85 KPH @ 0.1579 Seconds



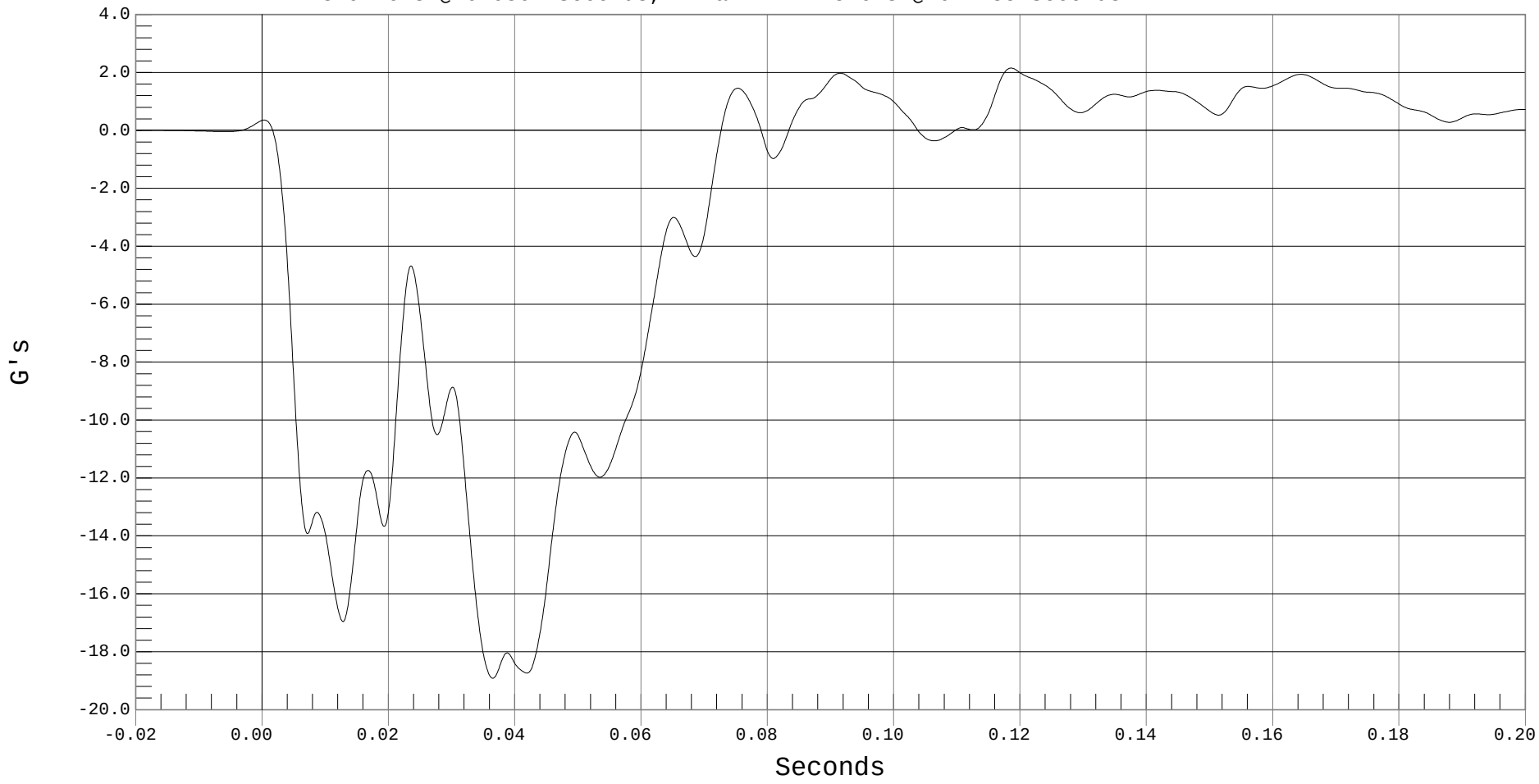
LEFT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT REAR SILL Y, b01051AF.A19

Ymin = -18.91 G's @ 0.0364 Seconds, Ymax = 2.15 G's @ 0.1185 Seconds



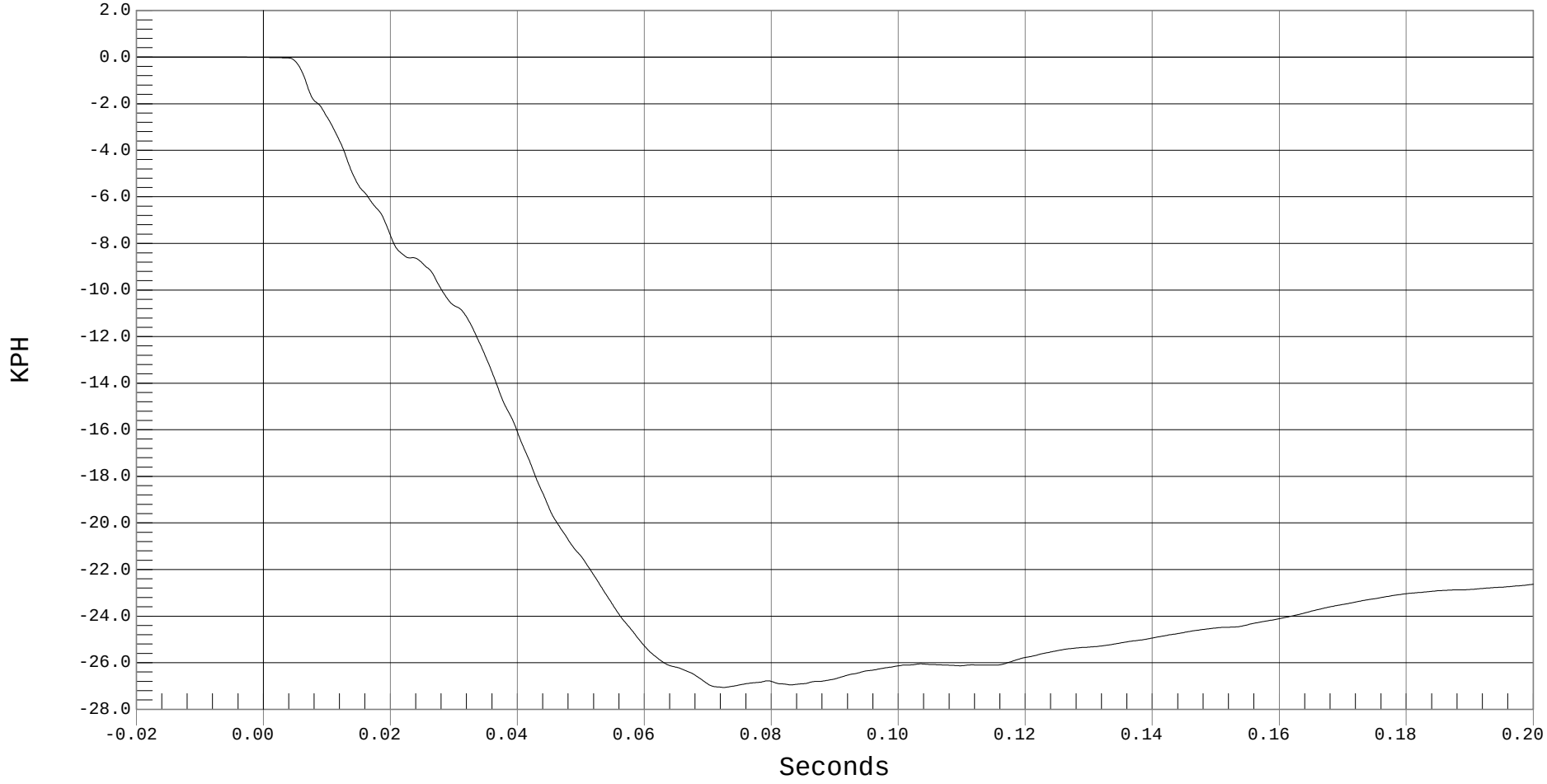
LEFT SIDE SILL AT REAR SEAT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT SIDE SILL AT RIGHT REAR SEAT Y VELOCITY, b01051AI.V19

Ymin = -27.06 KPH @ 0.0724 Seconds, Ymax = 0 KPH @ -0.0161 Seconds



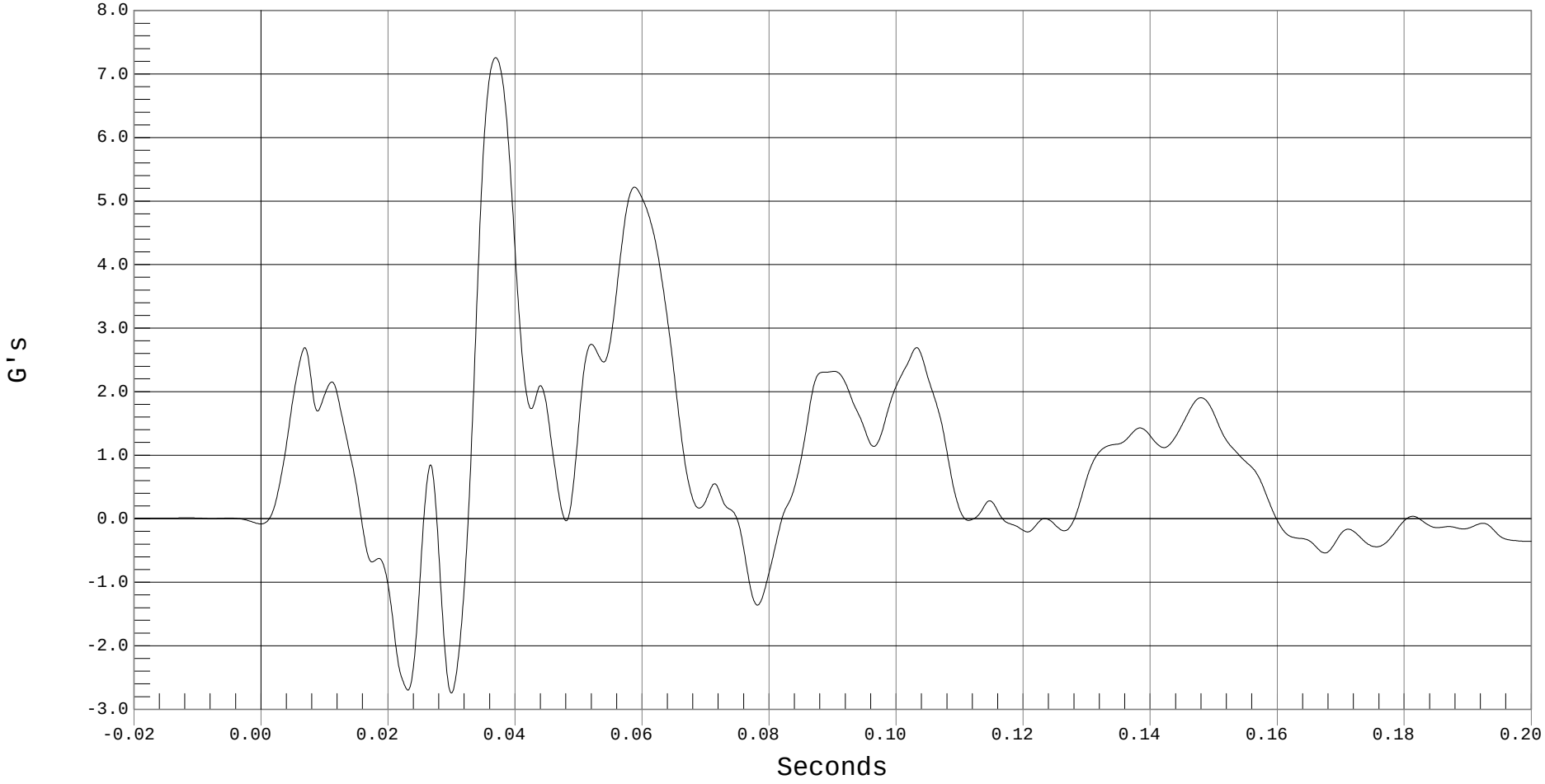
LEFT SIDE SILL AT REAR SEAT Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT REAR SILL Z, b01051AF.A20

Ymin = -2.74 G's @ 0.0299 Seconds, Ymax = 7.26 G's @ 0.0369 Seconds



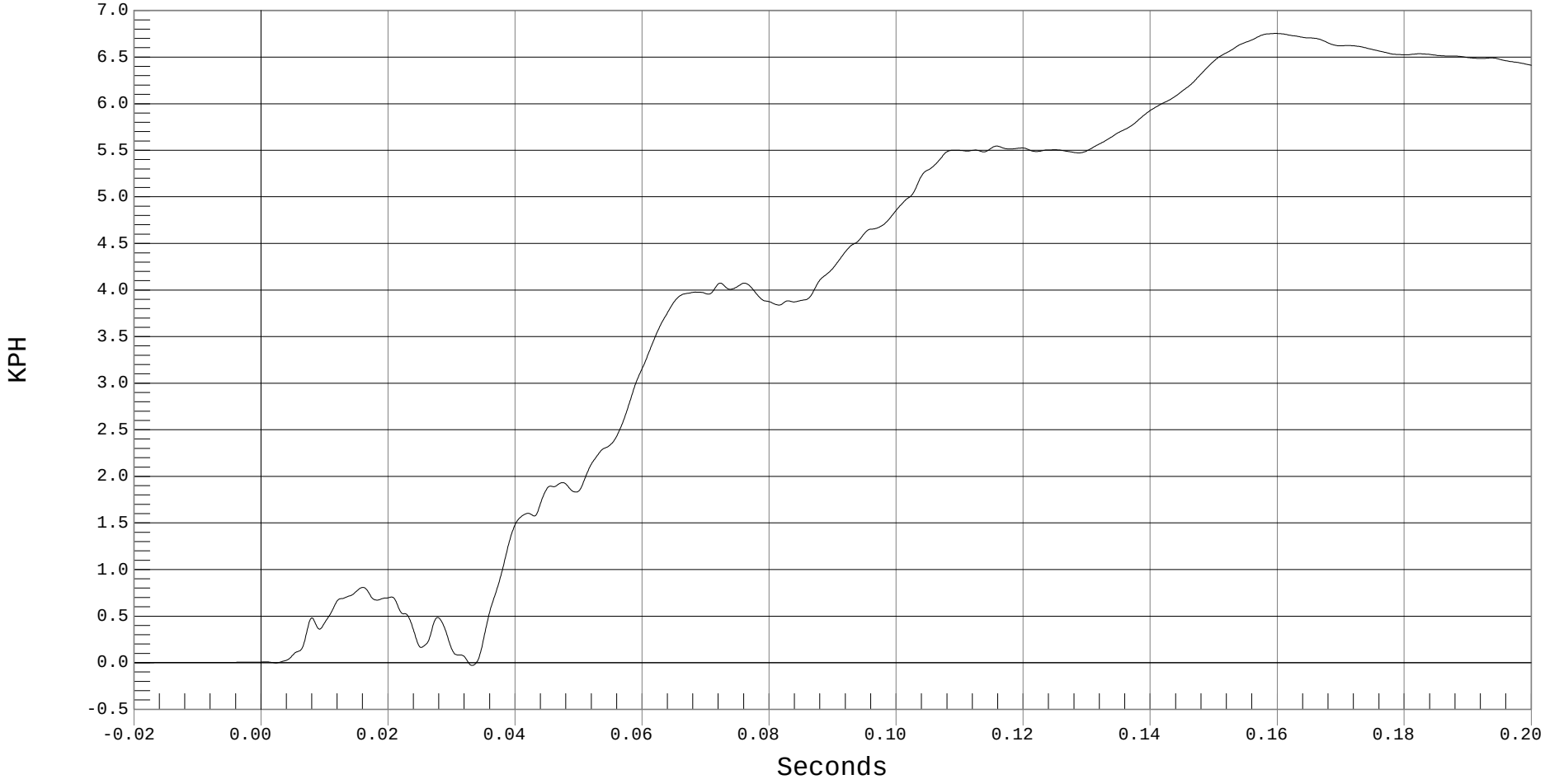
LEFT SIDE SILL AT REAR SEAT Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT SIDE SILL AT RIGHT REAR SEAT Z VELOCITY, b01051AI.V20

Ymin = -.03 KPH @ 0.0331 Seconds, Ymax = 6.75 KPH @ 0.1596 Seconds



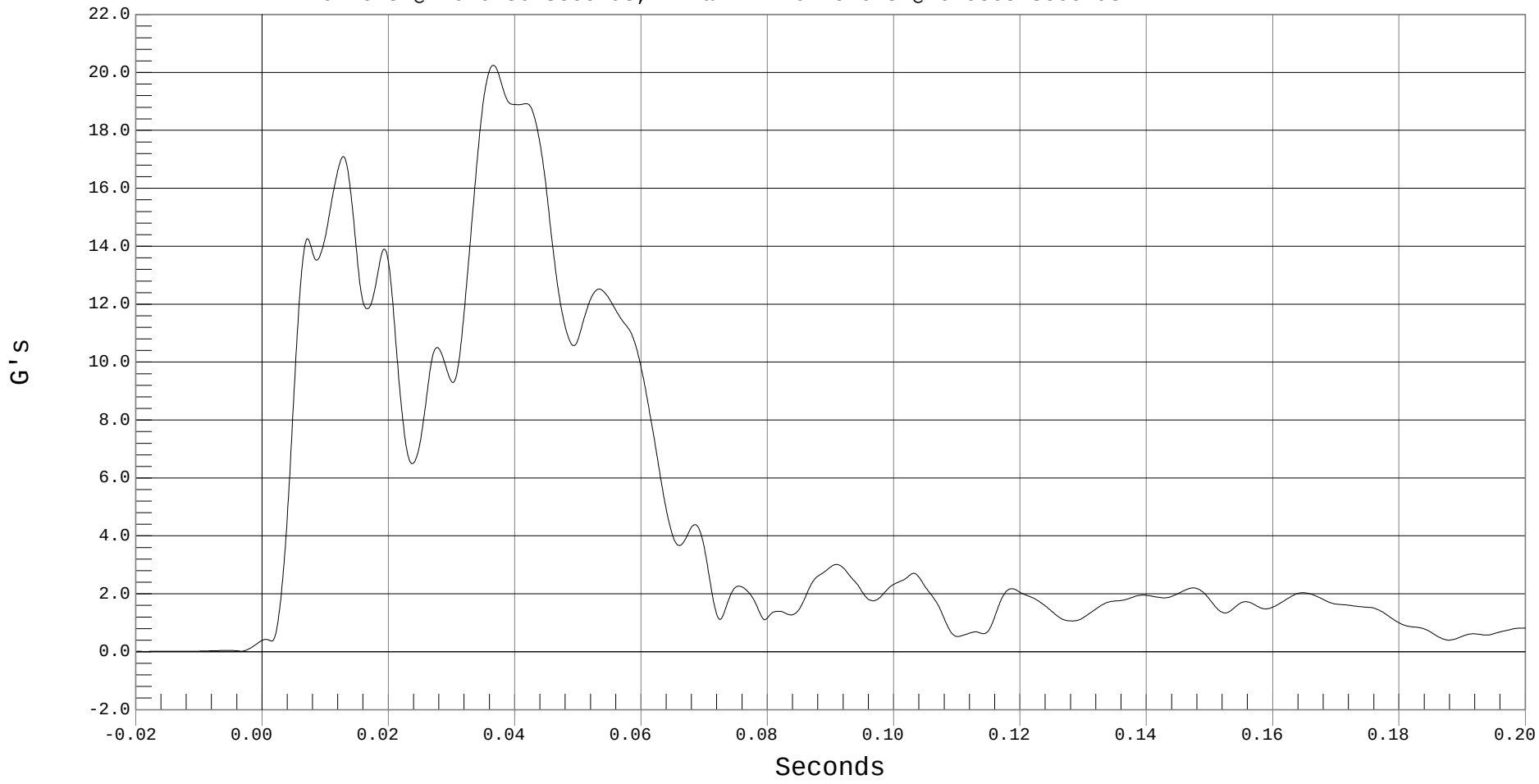
LEFT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT SIDE SILL AT RIGHT REAR SEAT RESULTANT ACCELERATION, b01051AV.A18

Ymin = .01 G's @ -0.0186 Seconds, Ymax = 20.25 G's @ 0.0365 Seconds



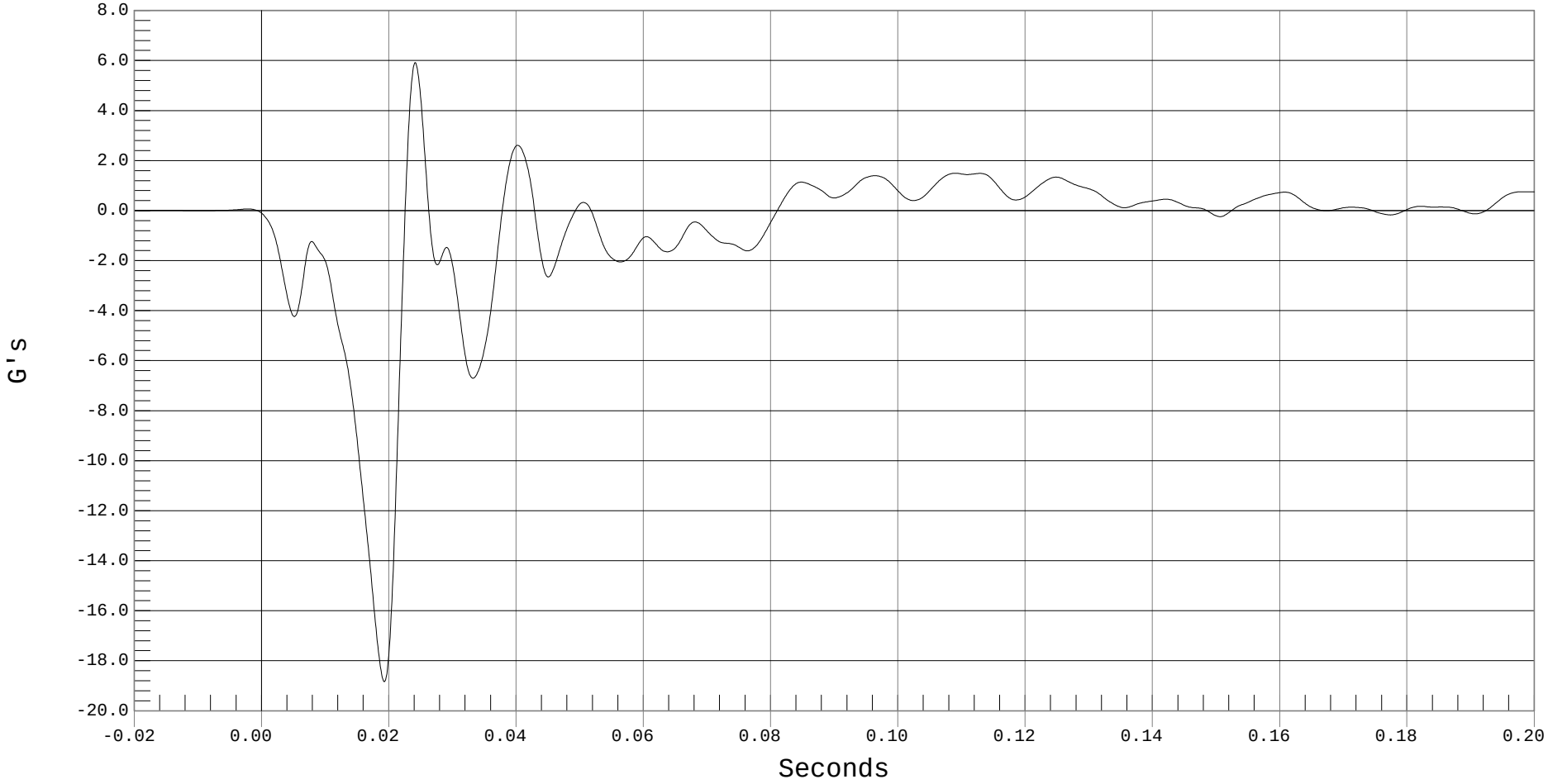
REAR FLOORPAN ABOVE AXLE X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 FLOORPAN @ REAR AXLE X, b01051AF.A23

Ymin = -18.84 G's @ 0.0192 Seconds, Ymax = 5.92 G's @ 0.0241 Seconds



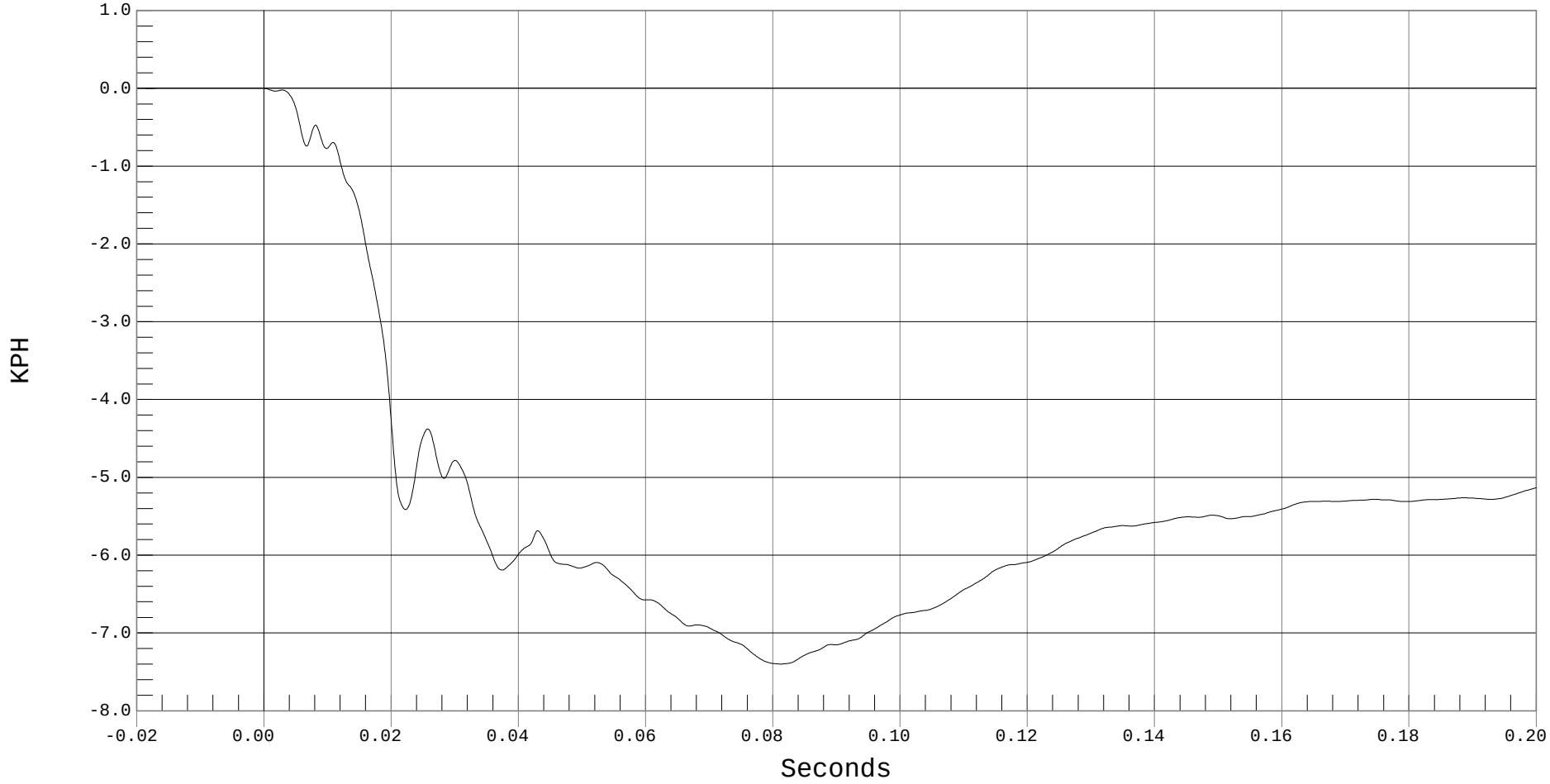
REAR FLOORPAN ABOVE AXLE X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 REAR FLOORPAN ABOVE AXLE X VELOCITY, b01051AI.V23

Ymin = -7.4 KPH @ 0.0812 Seconds, Ymax = 0 KPH @ -0.0010 Seconds



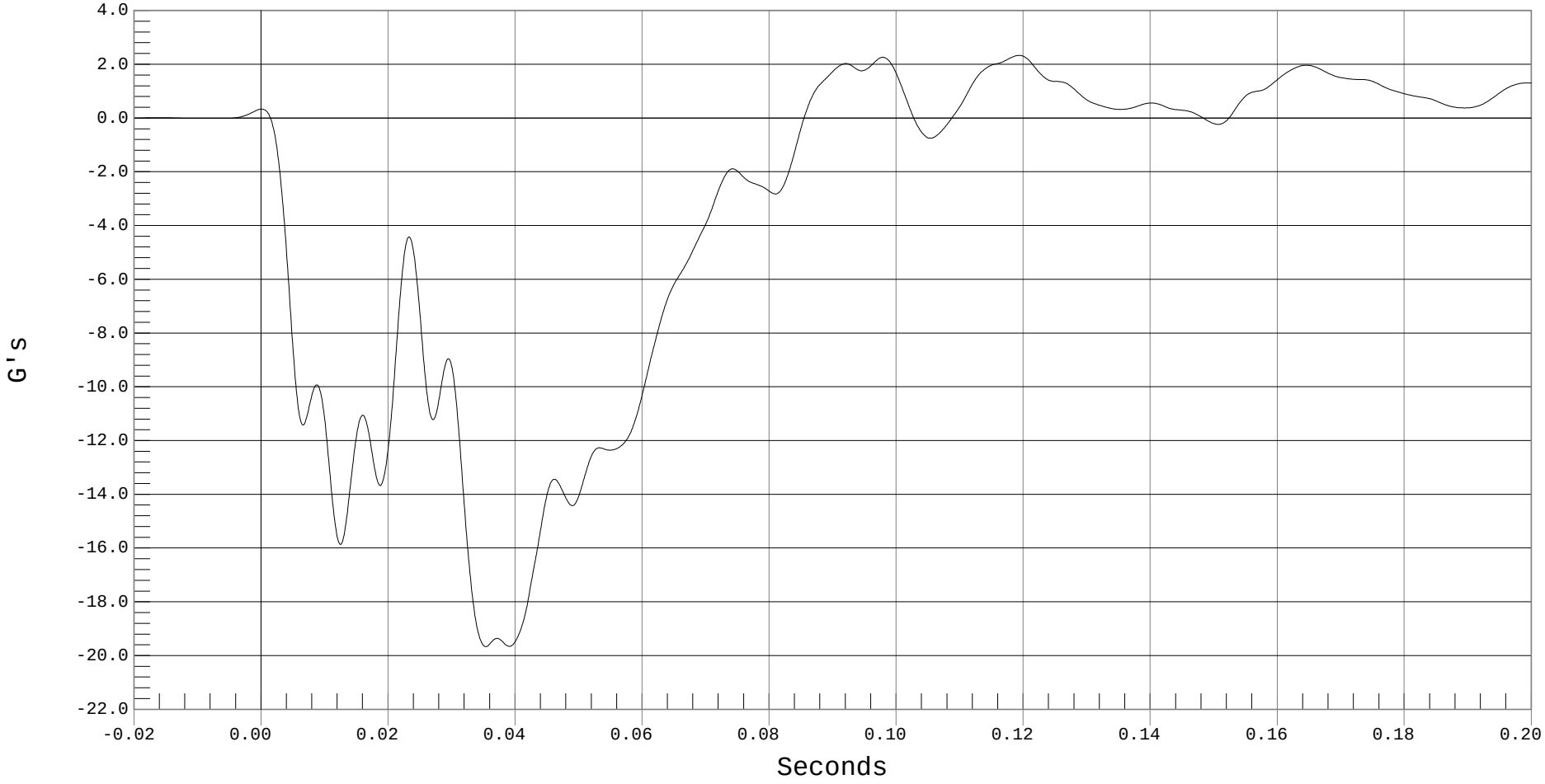
REAR FLOORPAN ABOVE AXLE Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 FLOORPAN @ REAR AXLE Y, b01051AF.A24

Ymin = -19.67 G's @ 0.0353 Seconds, Ymax = 2.33 G's @ 0.1193 Seconds



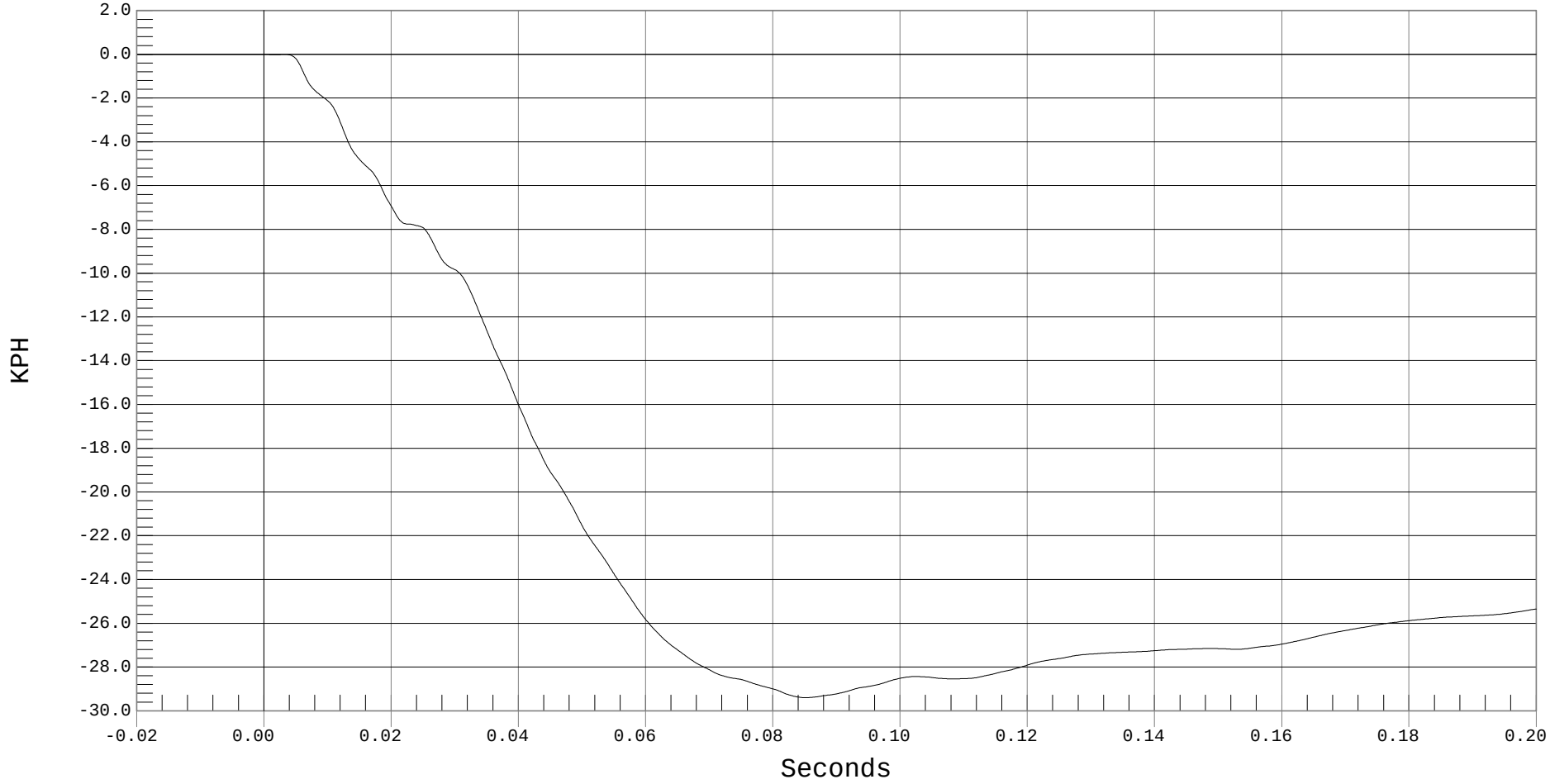
REAR FLOORPAN ABOVE AXLE Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 REAR FLOORPAN ABOVE AXLE Y VELOCITY, b01051AI.V24

Ymin = -29.4 KPH @ 0.0850 Seconds, Ymax = 0 KPH @ -0.0134 Seconds



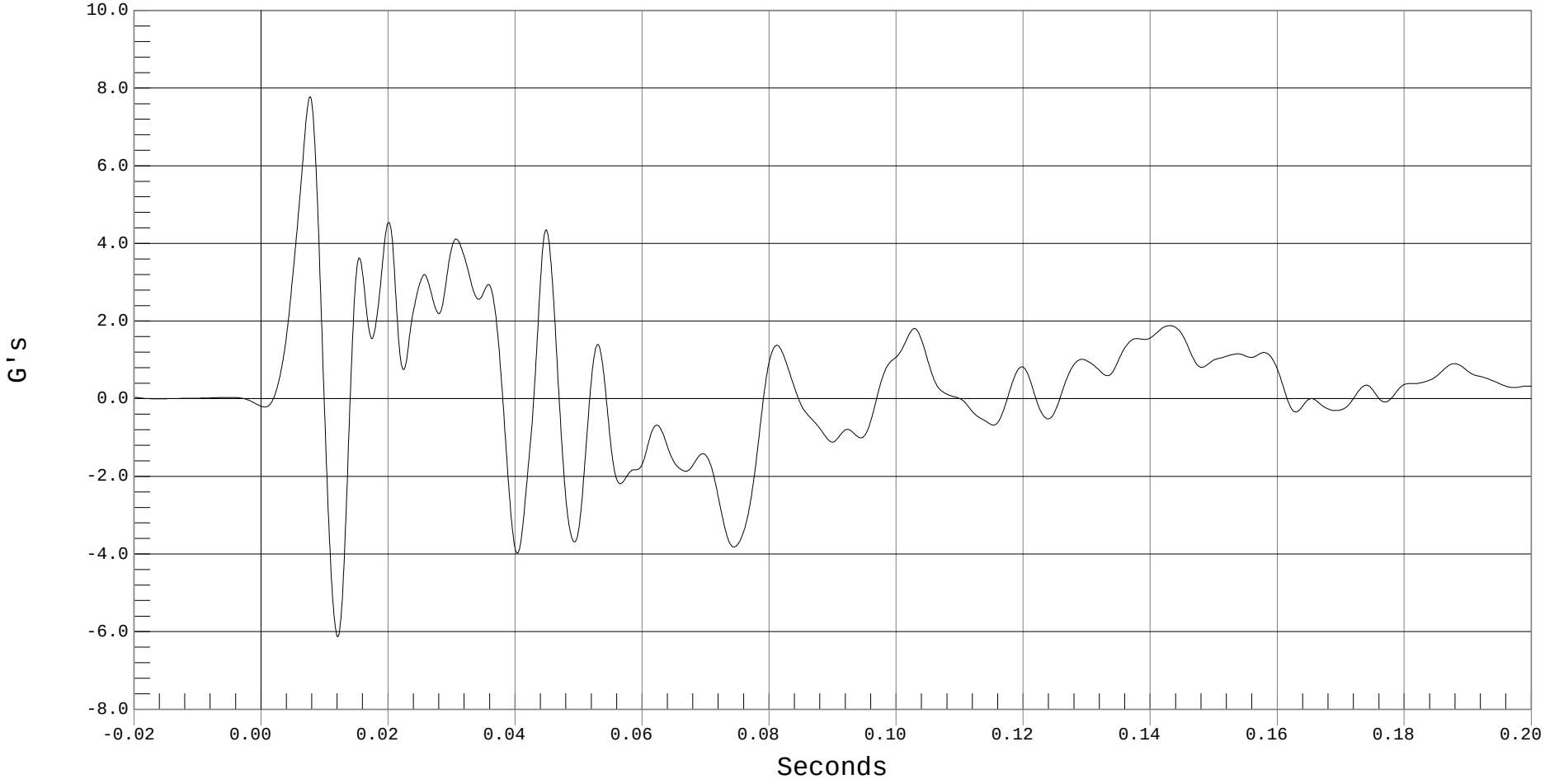
REAR FLOORPAN ABOVE AXLE Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 FLOORPAN @ REAR AXLE Z, b01051AF.A25

Ymin = -6.13 G's @ 0.0120 Seconds, Ymax = 7.78 G's @ 0.0076 Seconds



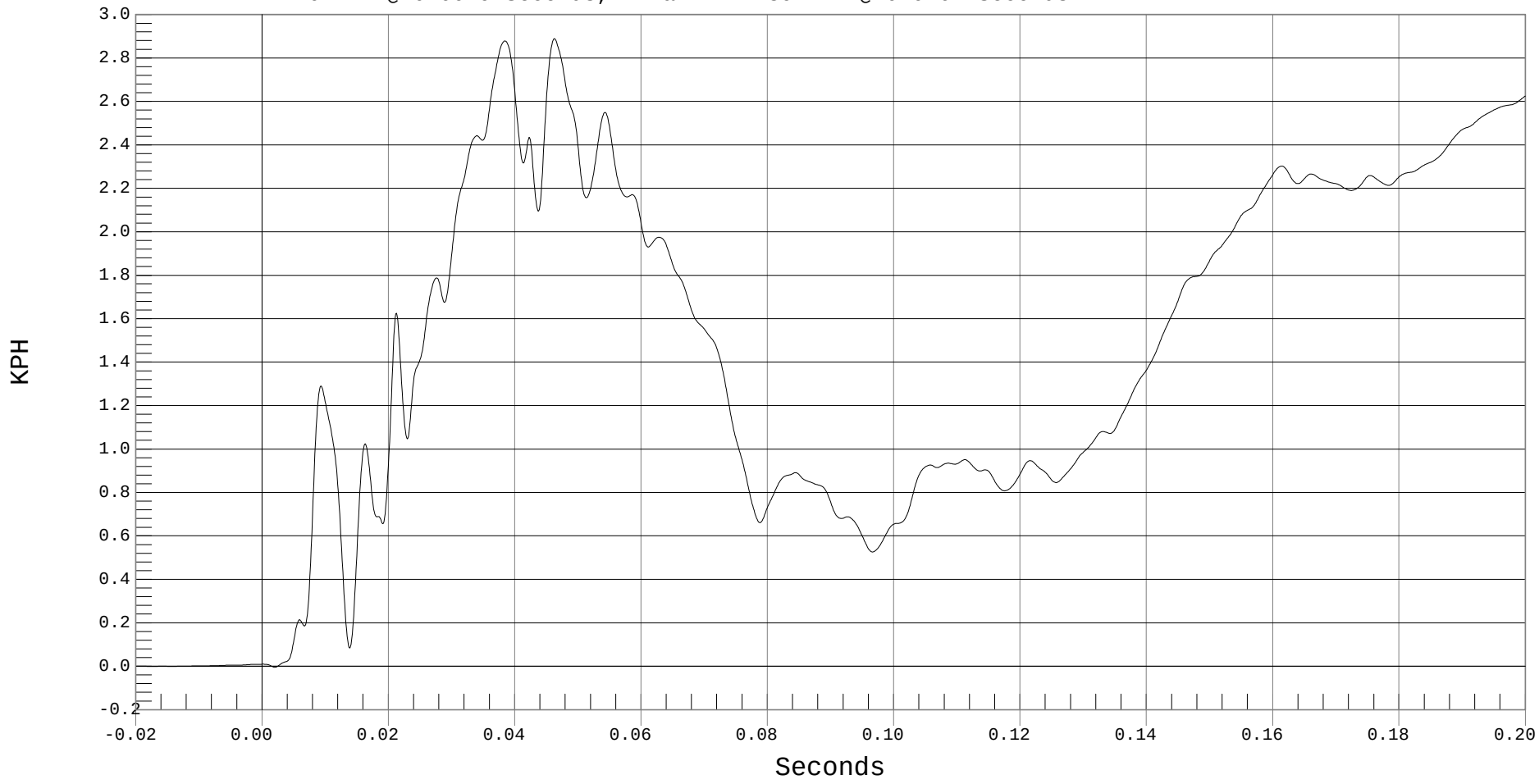
REAR FLOORPAN ABOVE AXLE Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 REAR FLOORPAN ABOVE AXLE Z VELOCITY, b01051AI.V25

Ymin = 0 KPH @ 0.0019 Seconds, Ymax = 2.89 KPH @ 0.0462 Seconds



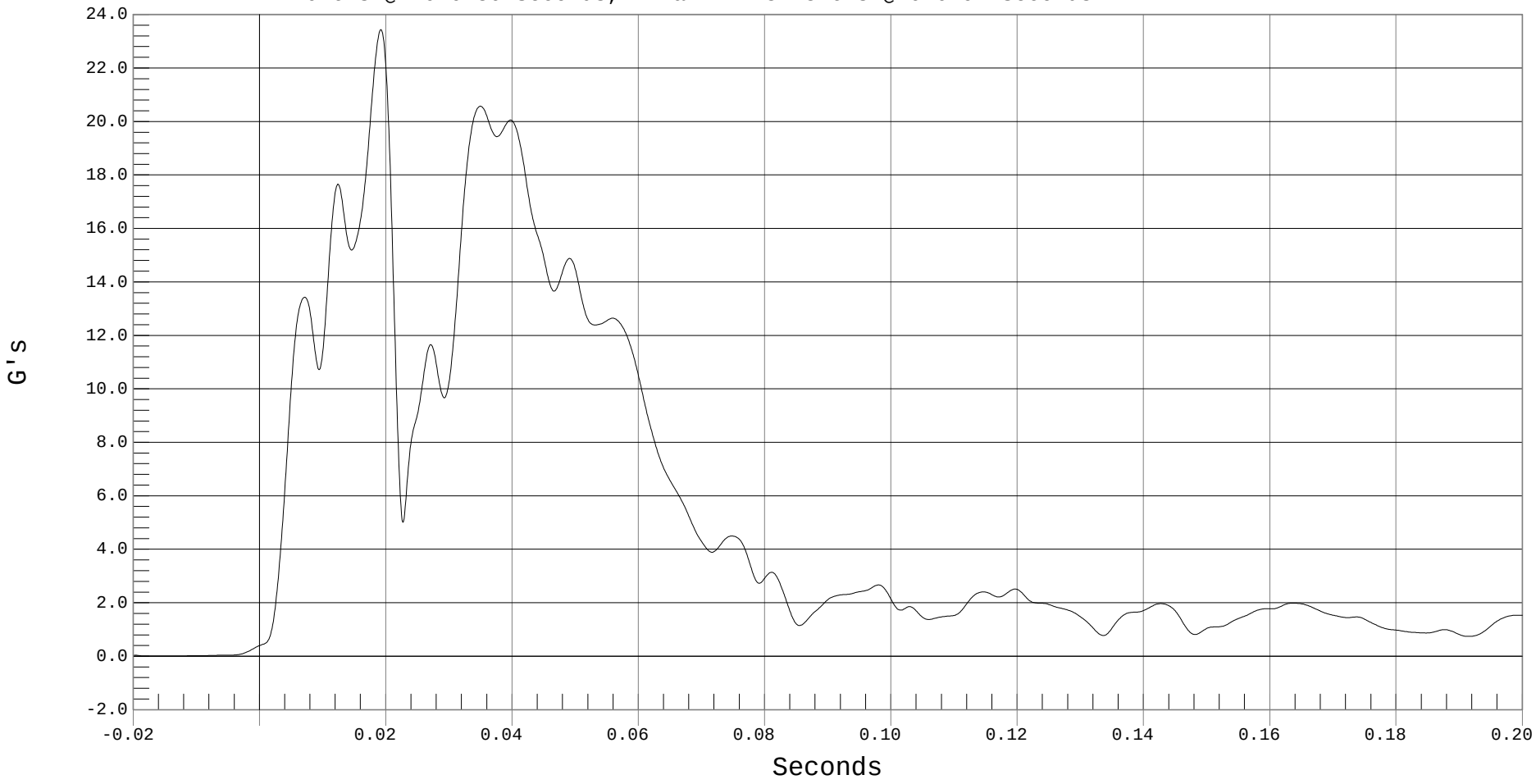
REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION, b01051AV.A23

Ymin = 0 G's @ -0.0180 Seconds, Ymax = 23.43 G's @ 0.0191 Seconds



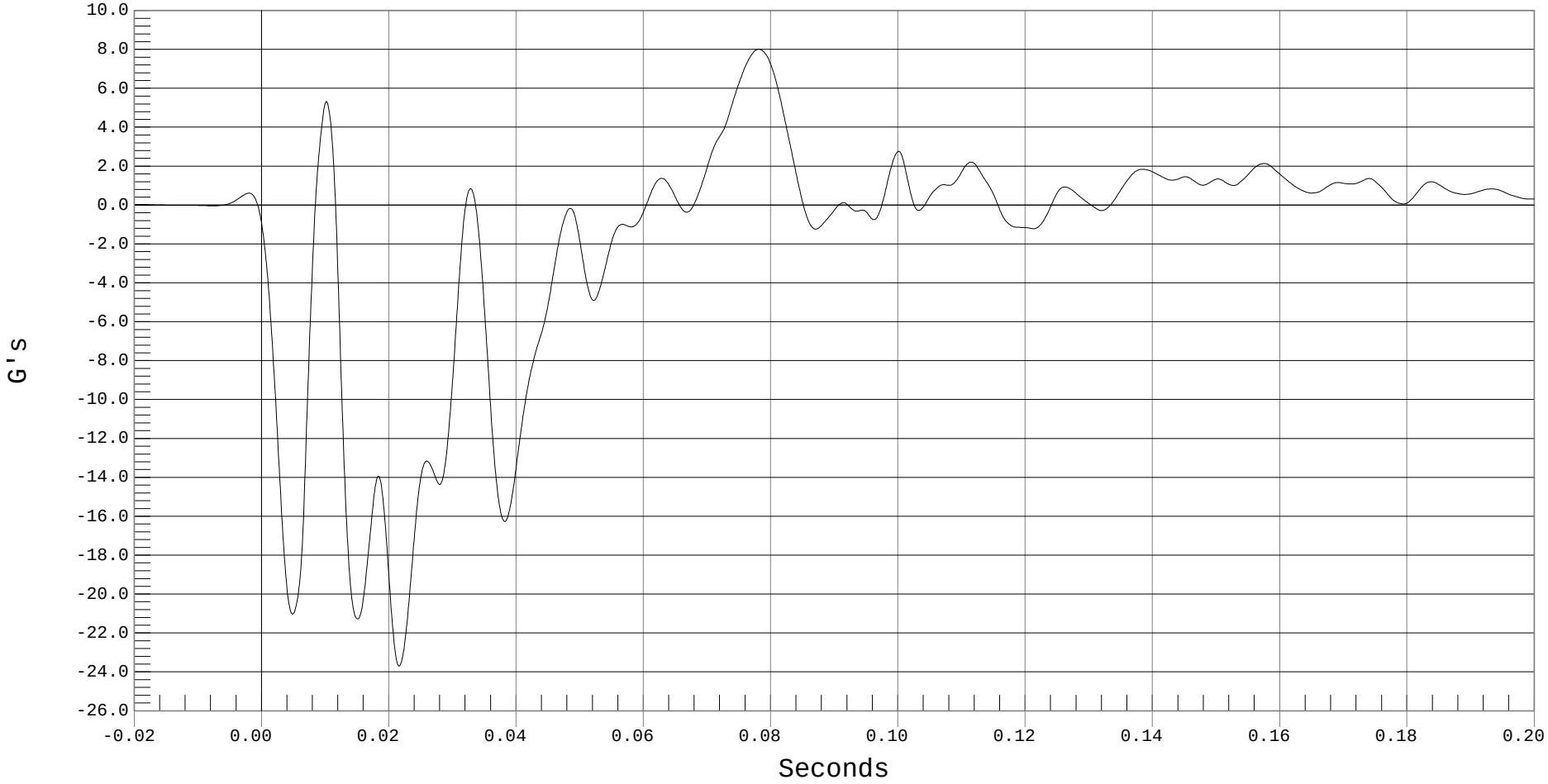
RIGHT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT FRONT SILL Y, b01051AF.A21

Ymin = -23.71 G's @ 0.0215 Seconds, Ymax = 8.01 G's @ 0.0780 Seconds



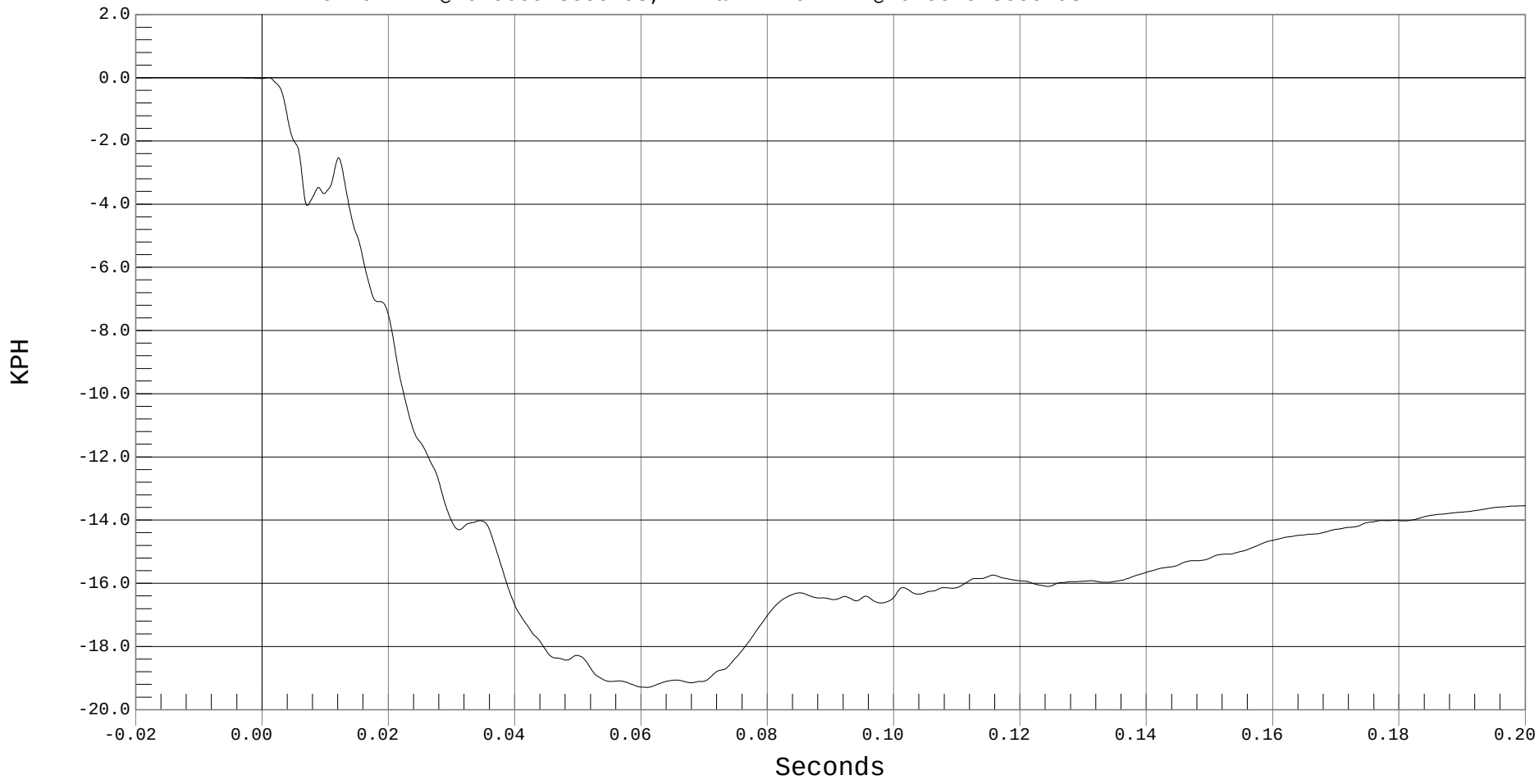
RIGHT SIDE SILL AT FRONT SEAT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT SIDE SILL AT FRONT SEAT Y VELOCITY, b01051AI.V21

Ymin = -19.29 KPH @ 0.0609 Seconds, Ymax = 0 KPH @ 0.0010 Seconds



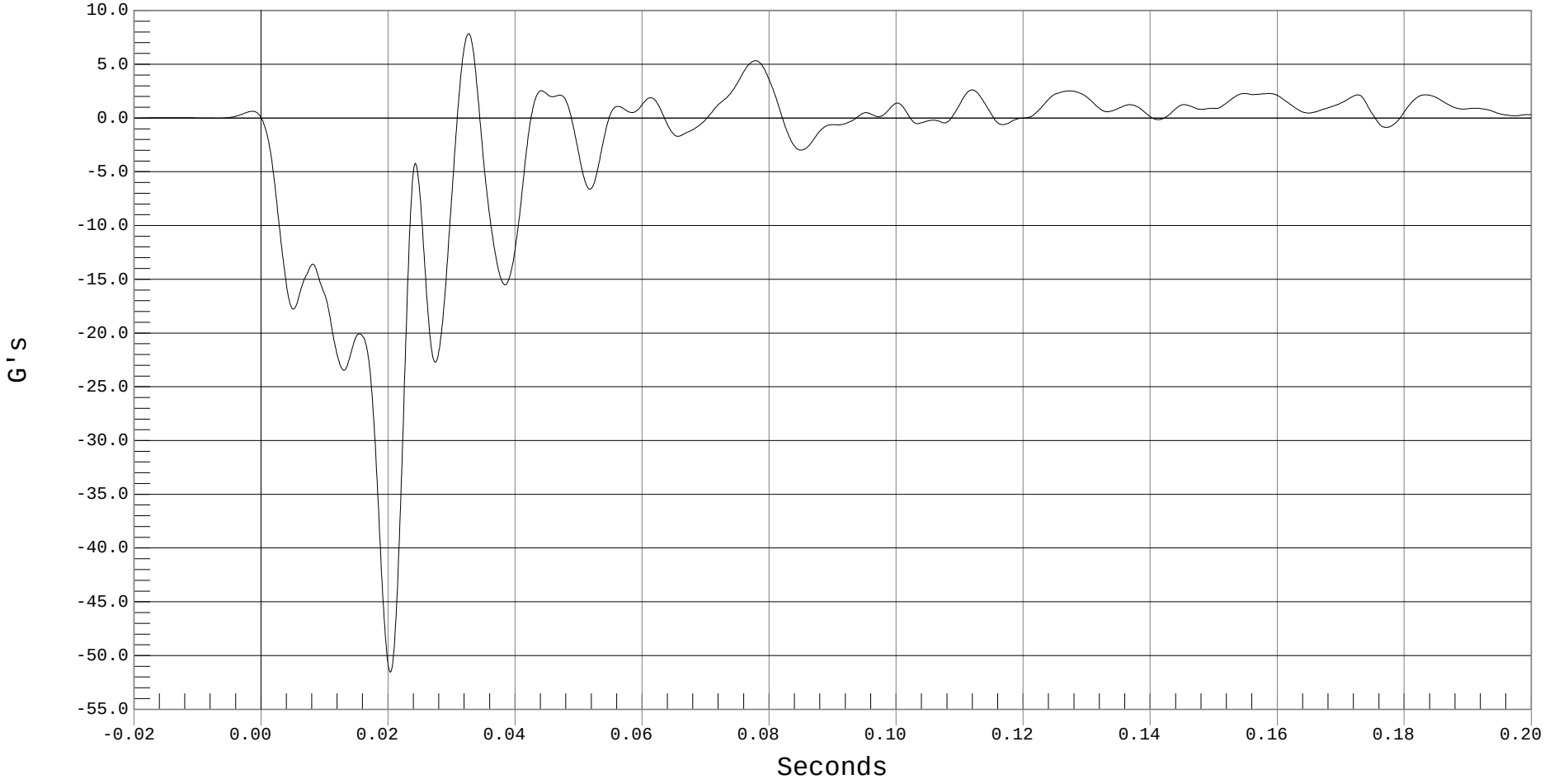
RIGHT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT REAR SILL Y, b01051AF.A22

Ymin = -51.55 G's @ 0.0203 Seconds, Ymax = 7.86 G's @ 0.0326 Seconds



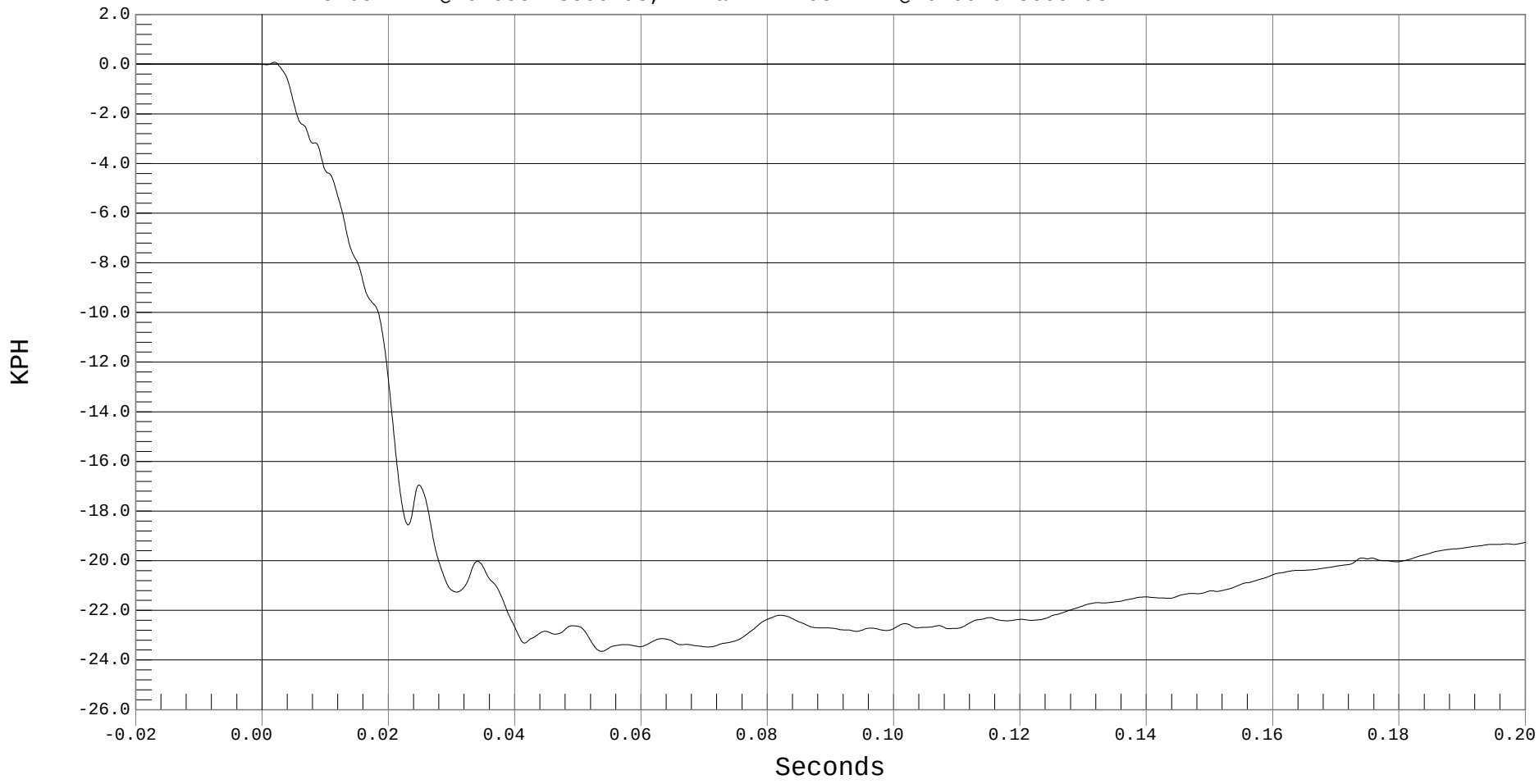
RIGHT SIDE SILL AT REAR SEAT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT SIDE SILL AT REAR SEAT Y VELOCITY, b01051AI.V22

Ymin = -23.65 KPH @ 0.0537 Seconds, Ymax = .08 KPH @ 0.0019 Seconds



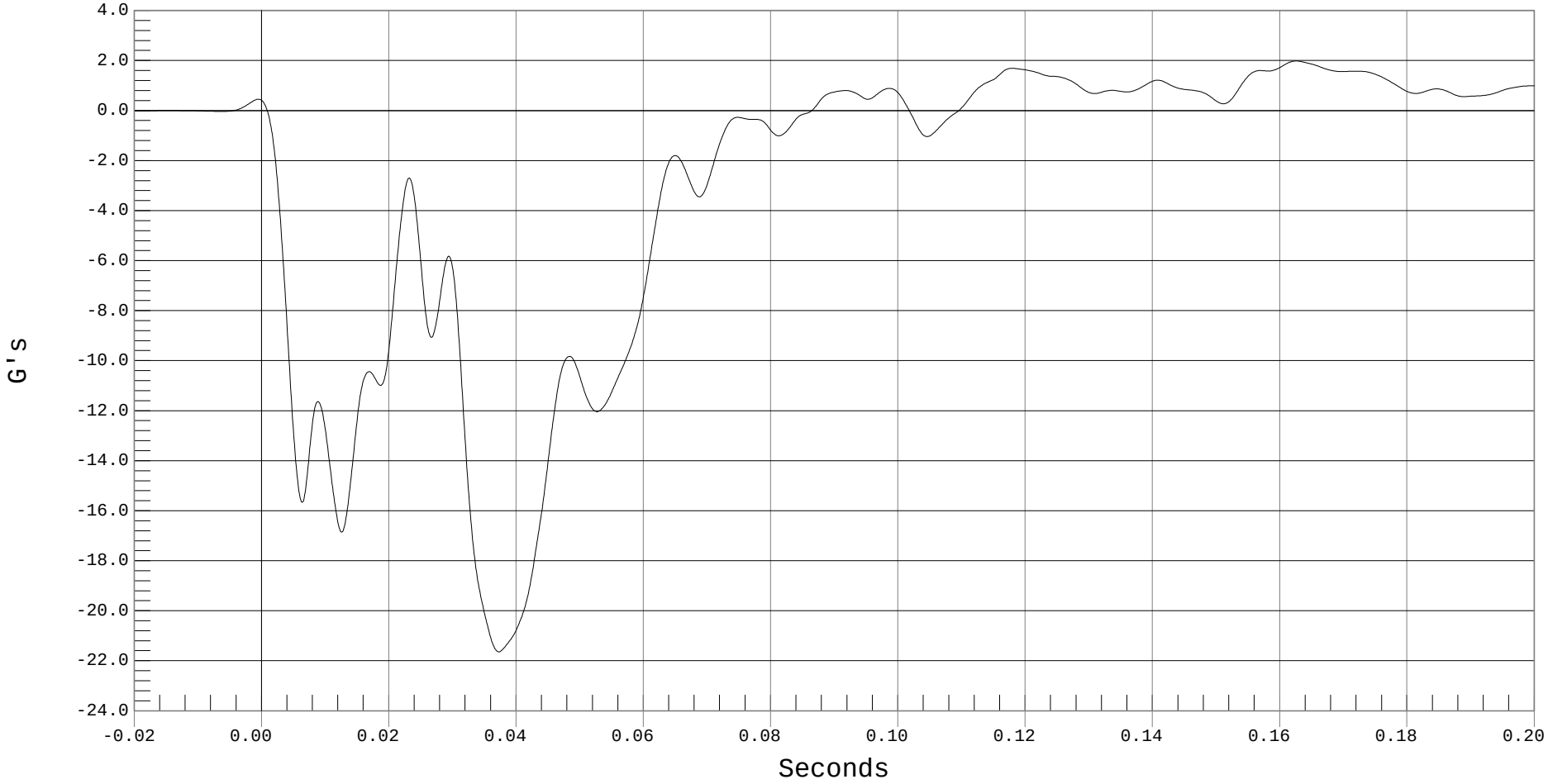
LEFT REAR OCCUPANT COMPARTMENT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 LEFT REAR OCCUPANT COMPARTMENT Y, b01051AF.A31

Ymin = -21.64 G's @ 0.0372 Seconds, Ymax = 1.98 G's @ 0.1625 Seconds



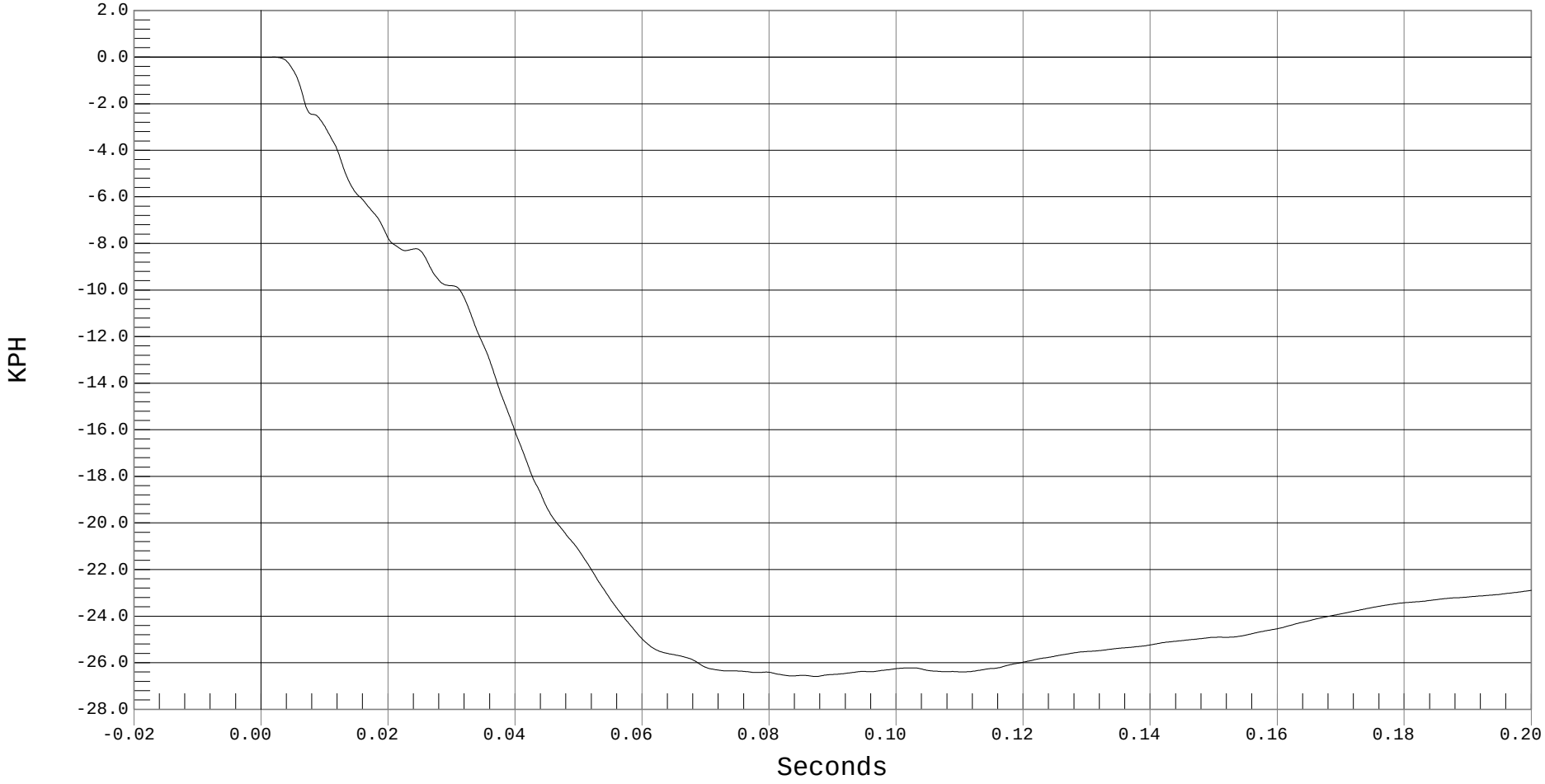
LEFT REAR OCCUPANT COMPARTMENT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 LEFT REAR OCCUPANT COMPARTMENT Y VELOCITY, b01051AI.V31

Ymin = -26.59 KPH @ 0.0872 Seconds, Ymax = 0 KPH @ -0.0199 Seconds



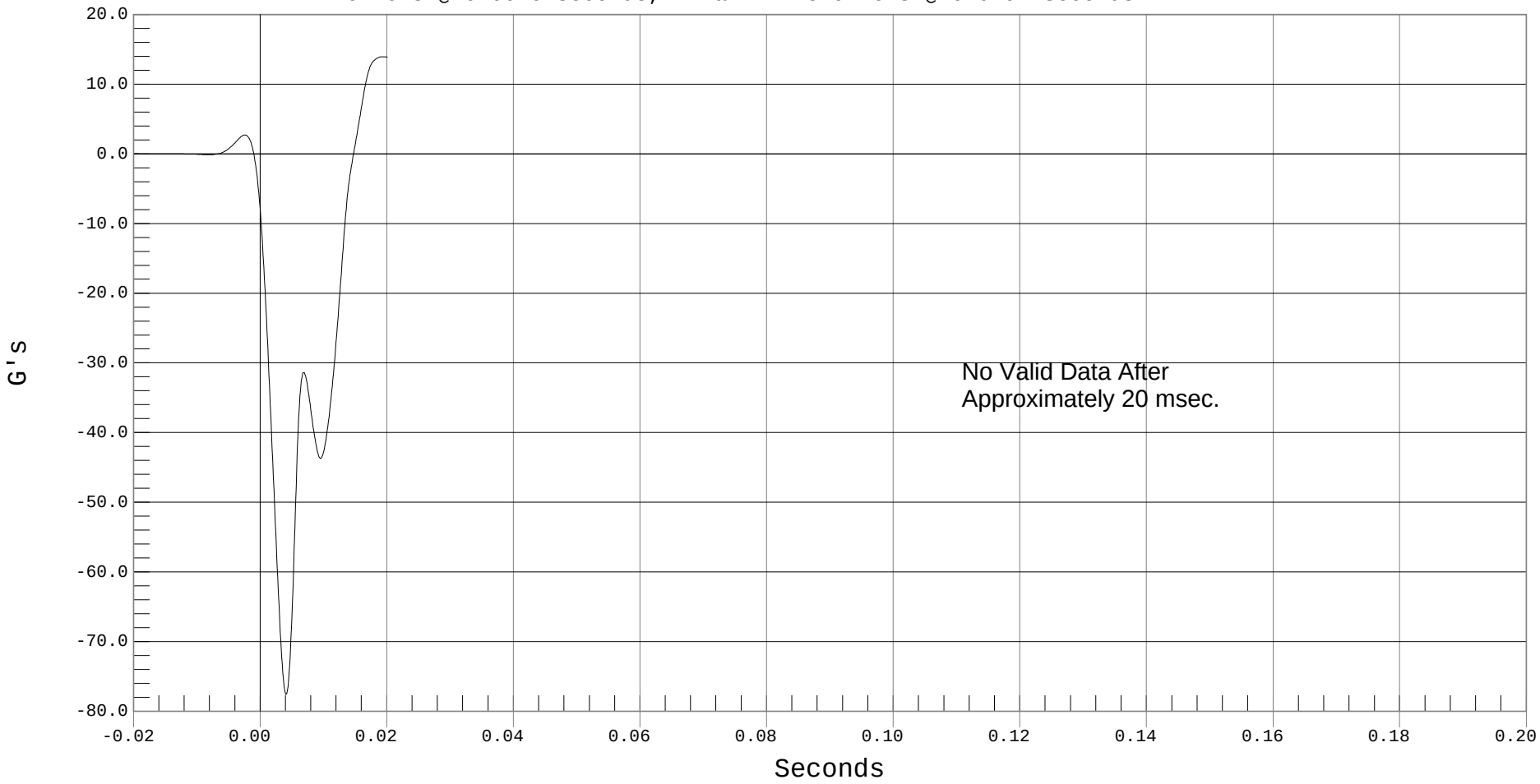
RIGHT LOWER A-POST Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT LOWER A-POST Y, b01051AF.A27

Ymin = -77.61 G's @ 0.0040 Seconds, Ymax = 13.94 G's @ 0.0192 Seconds



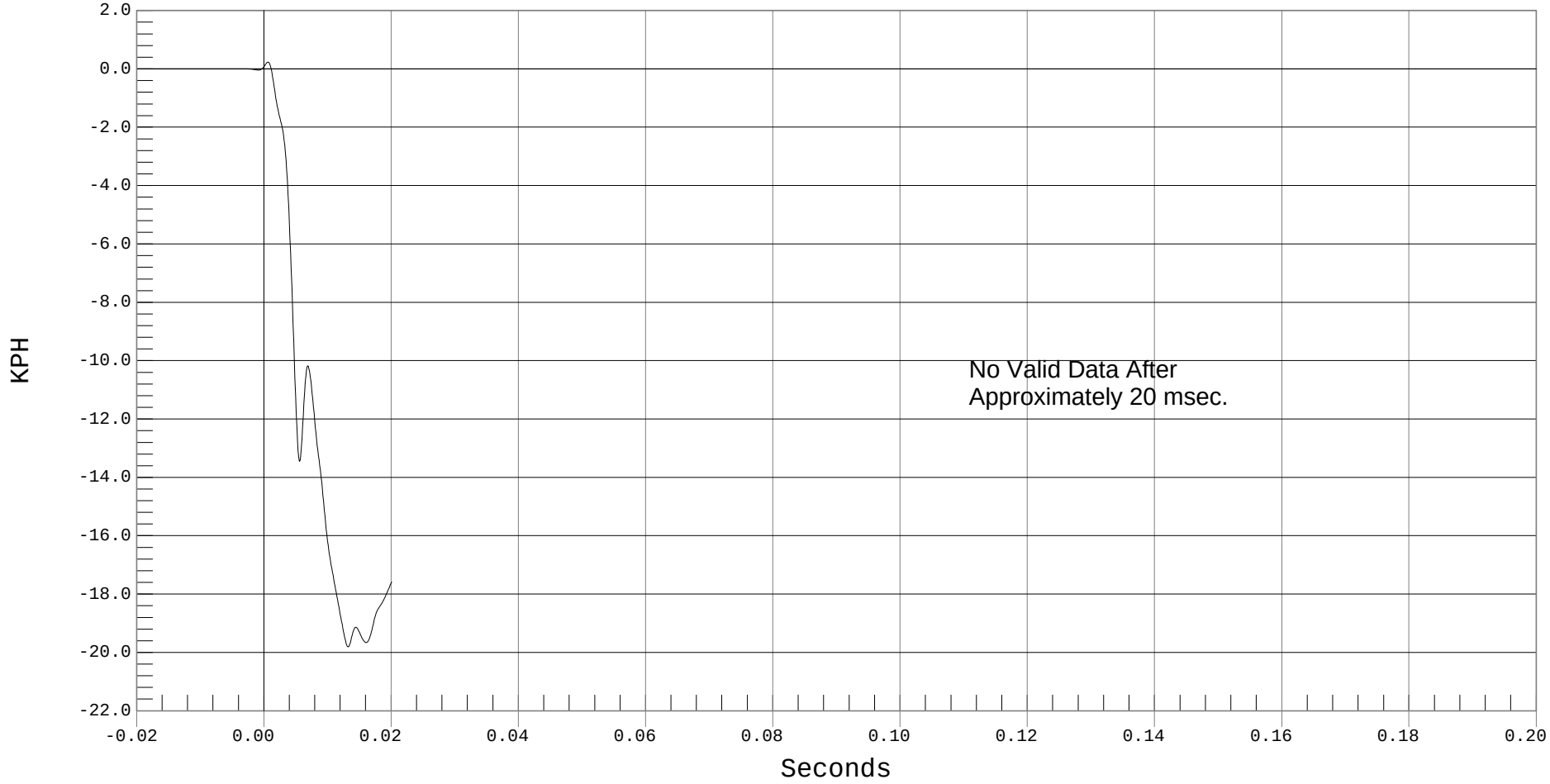
RIGHT LOWER A-POST Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT LOWER A-POST Y VELOCITY, b01051AI.V27

Ymin = -19.81 KPH @ 0.0132 Seconds, Ymax = .23 KPH @ 0.0006 Seconds



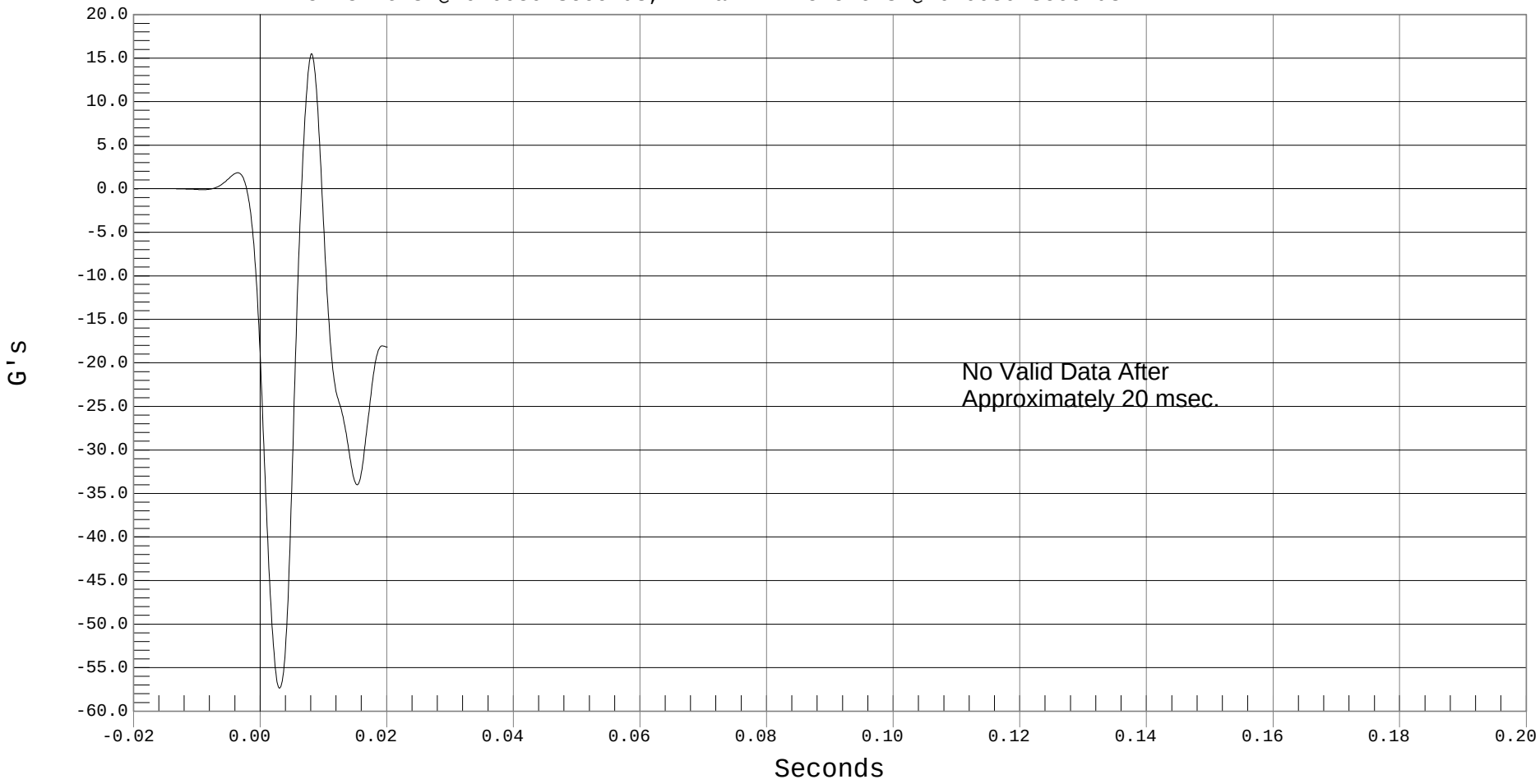
RIGHT MID A-POST Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT MID A-POST Y, b01051AF.A26

Ymin = -57.37 G's @ 0.0030 Seconds, Ymax = 15.5 G's @ 0.0080 Seconds



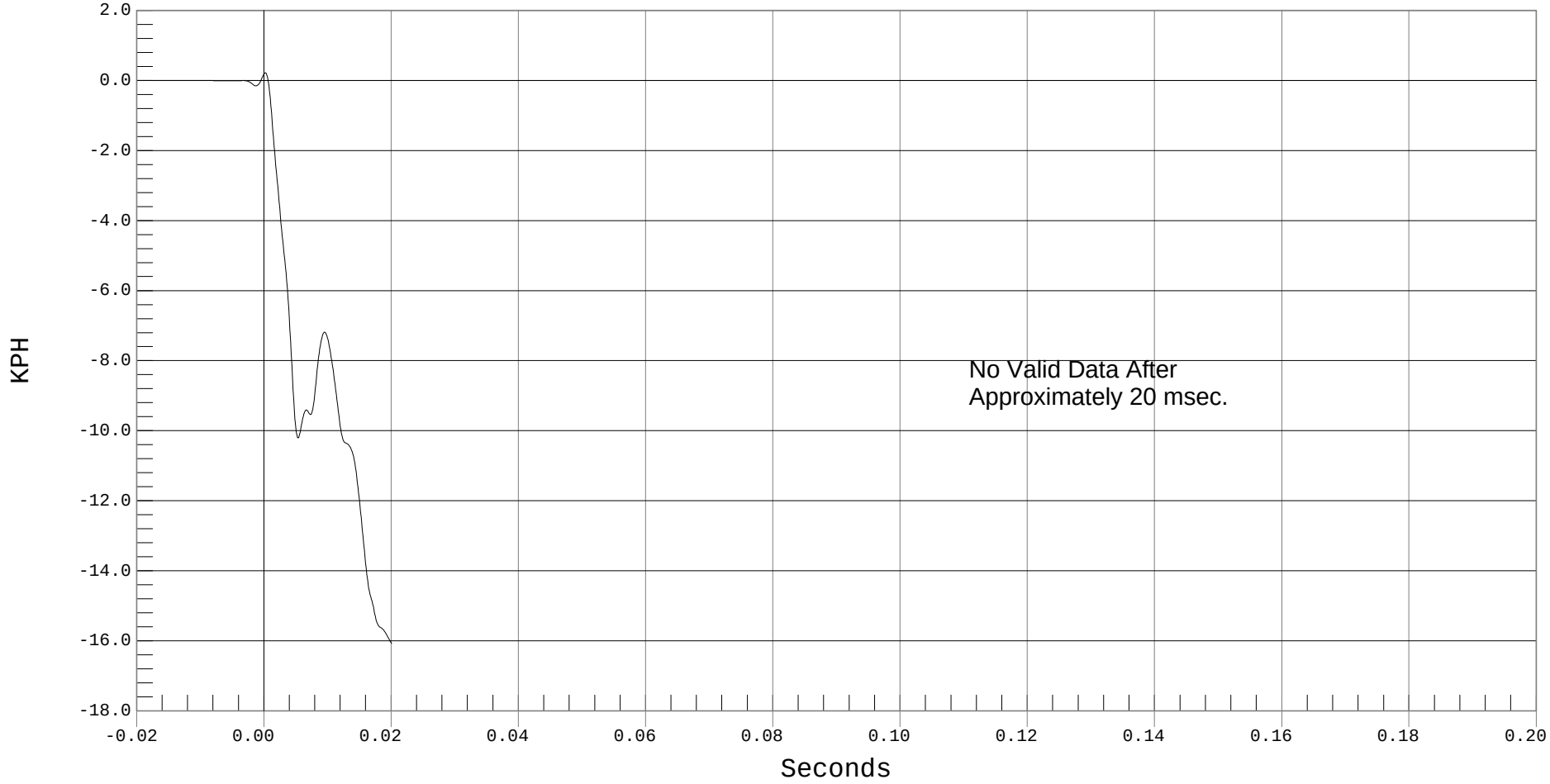
RIGHT MID A-POST Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT MID A-POST Y VELOCITY, b01051AI.V26

Ymin = -16.08 KPH @ 0.0200 Seconds, Ymax = .22 KPH @ 0.0001 Seconds



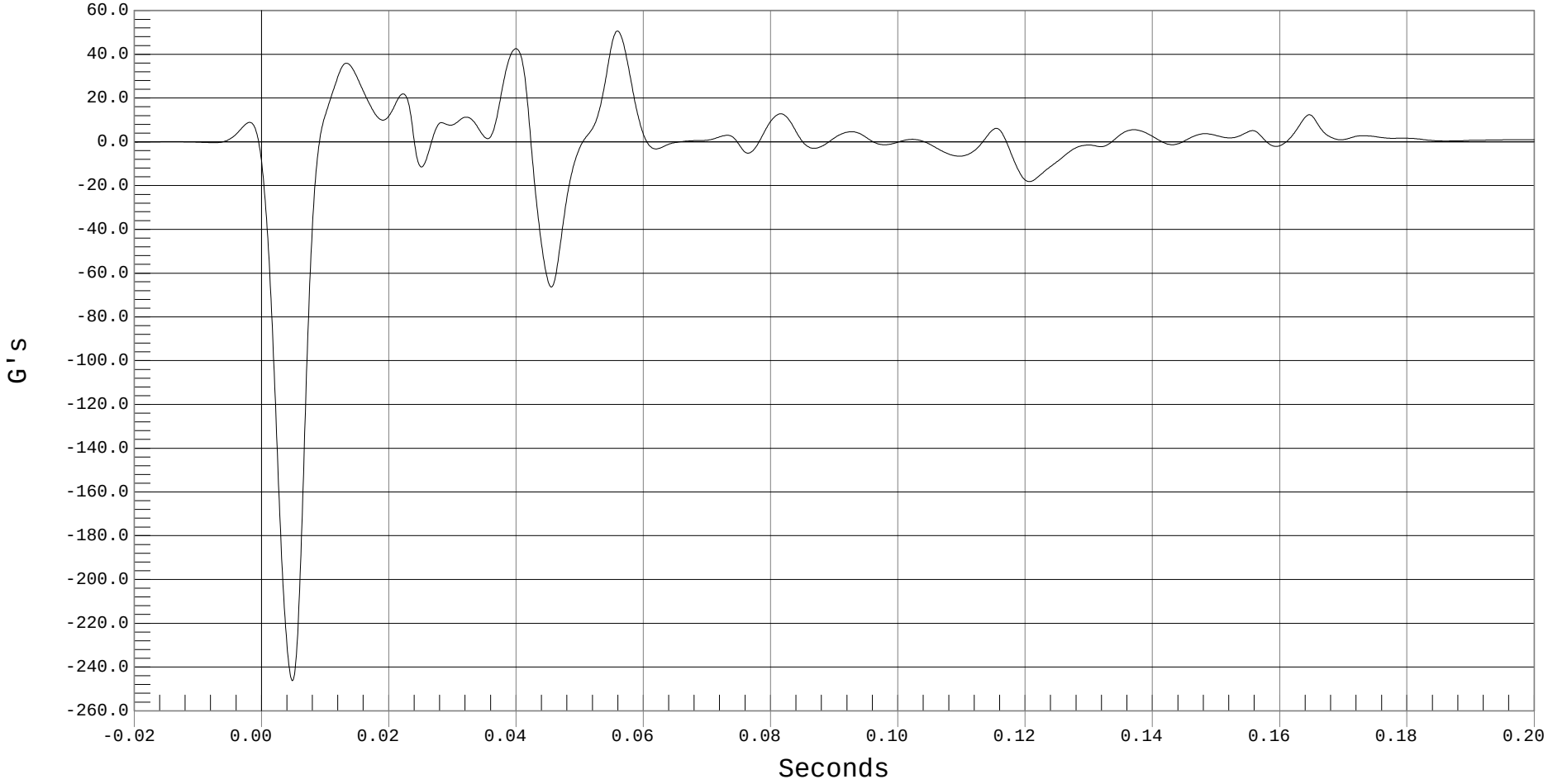
RIGHT LOWER B-POST Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT LOWER B-POST, b01051AF.A29

Ymin = -246.23 G's @ 0.0048 Seconds, Ymax = 50.64 G's @ 0.0558 Seconds



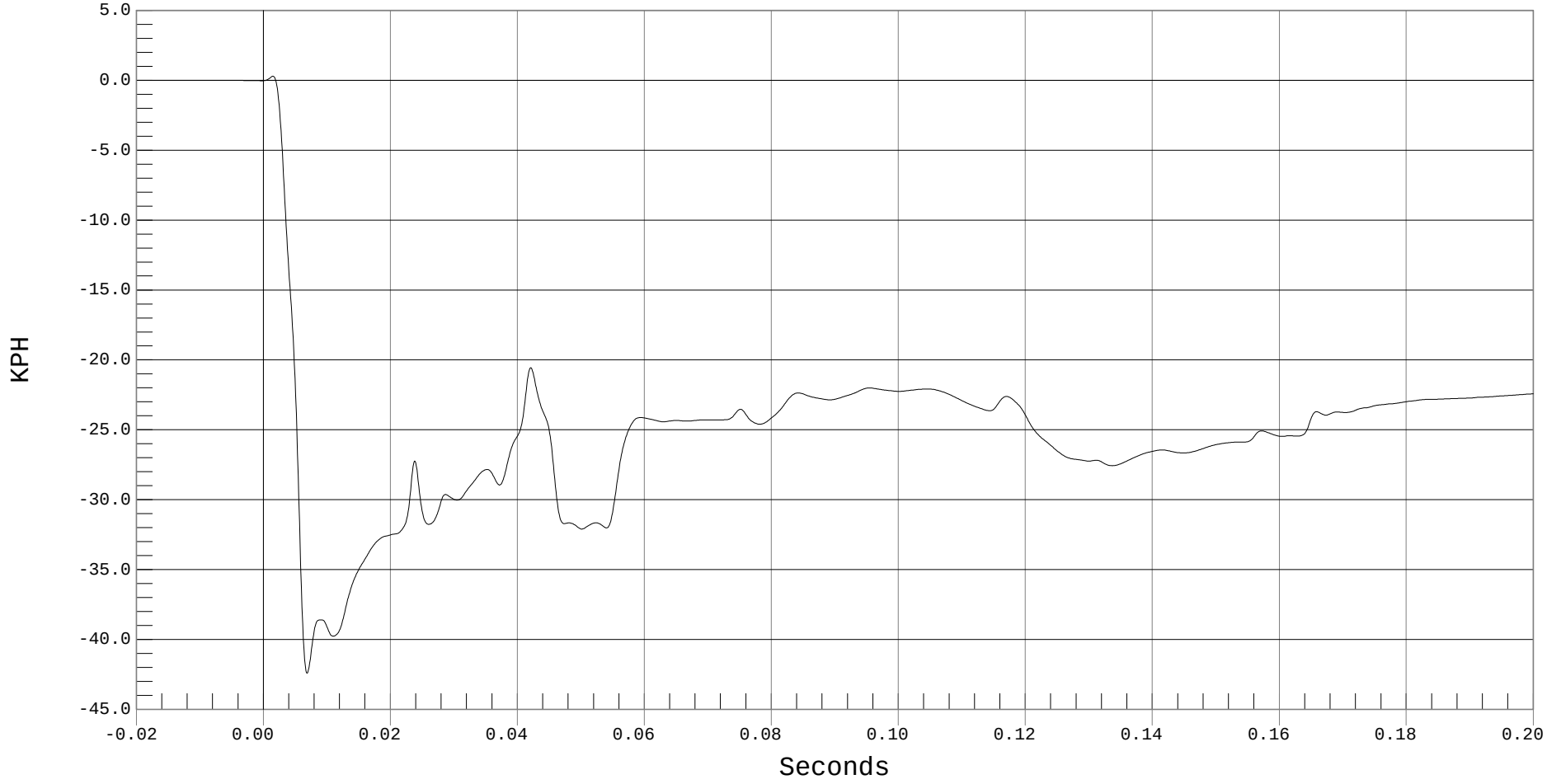
RIGHT LOWER B-POST Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT LOWER B-POST Y VELOCITY, b01051AI.V29

Ymin = -42.43 KPH @ 0.0068 Seconds, Ymax = .3 KPH @ 0.0014 Seconds



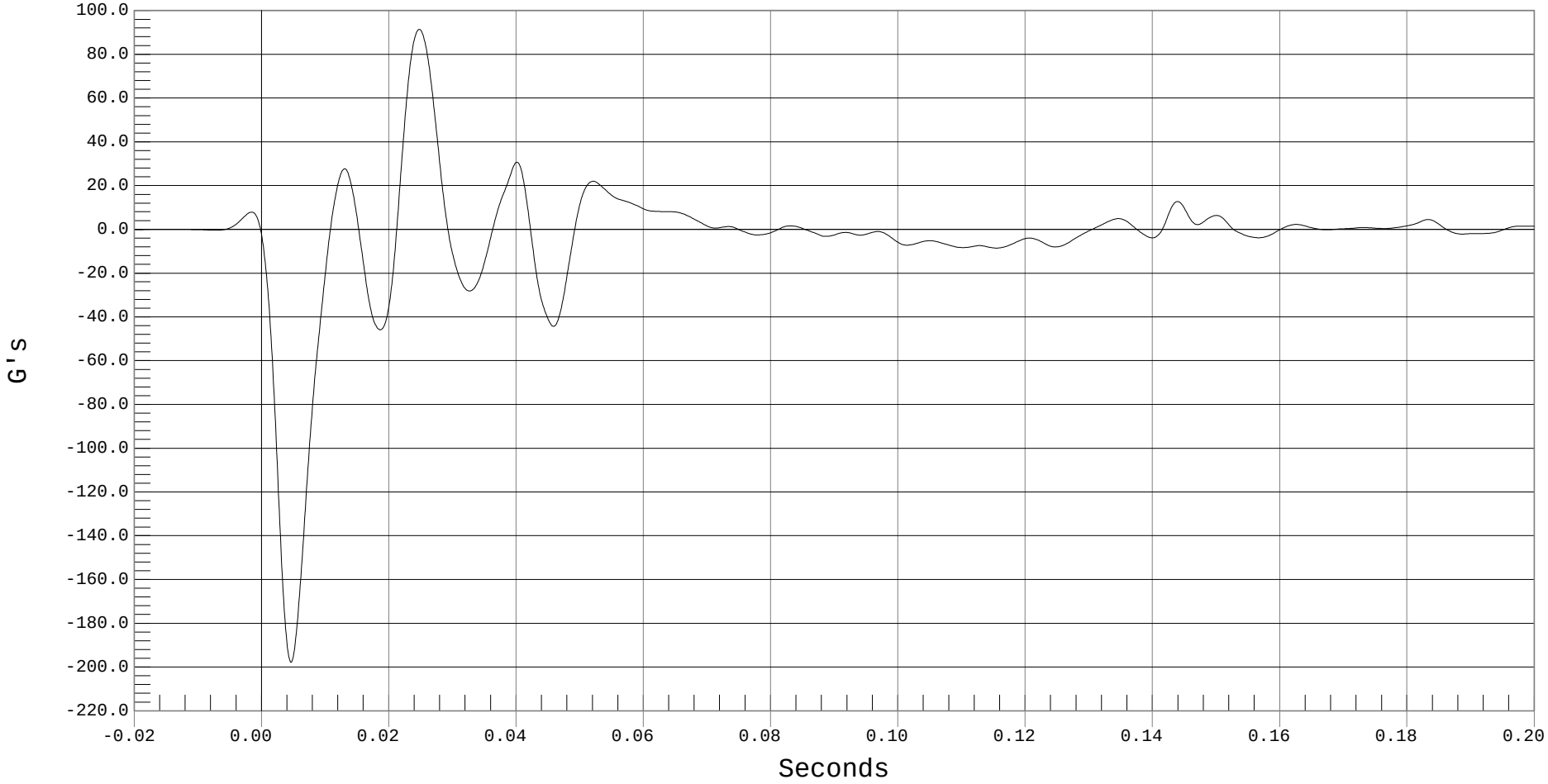
RIGHT MID B-POST Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT MID B-POST, b01051AF.A28

Ymin = -197.8 G's @ 0.0046 Seconds, Ymax = 91.37 G's @ 0.0247 Seconds



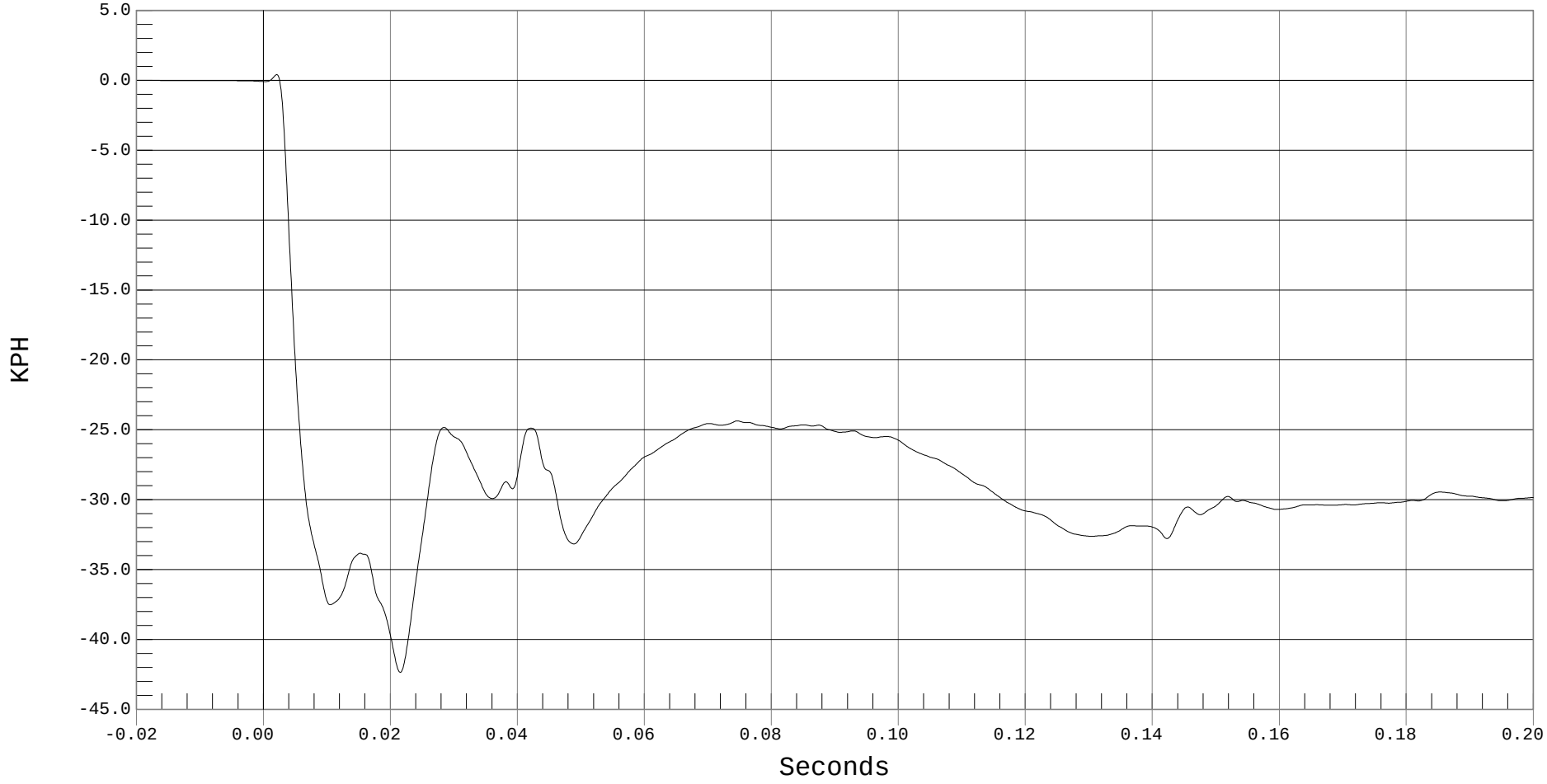
RIGHT MID B-POST Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT MID B-POST Y VELOCITY, b01051AI.V28

Ymin = -42.36 KPH @ 0.0215 Seconds, Ymax = .42 KPH @ 0.0020 Seconds



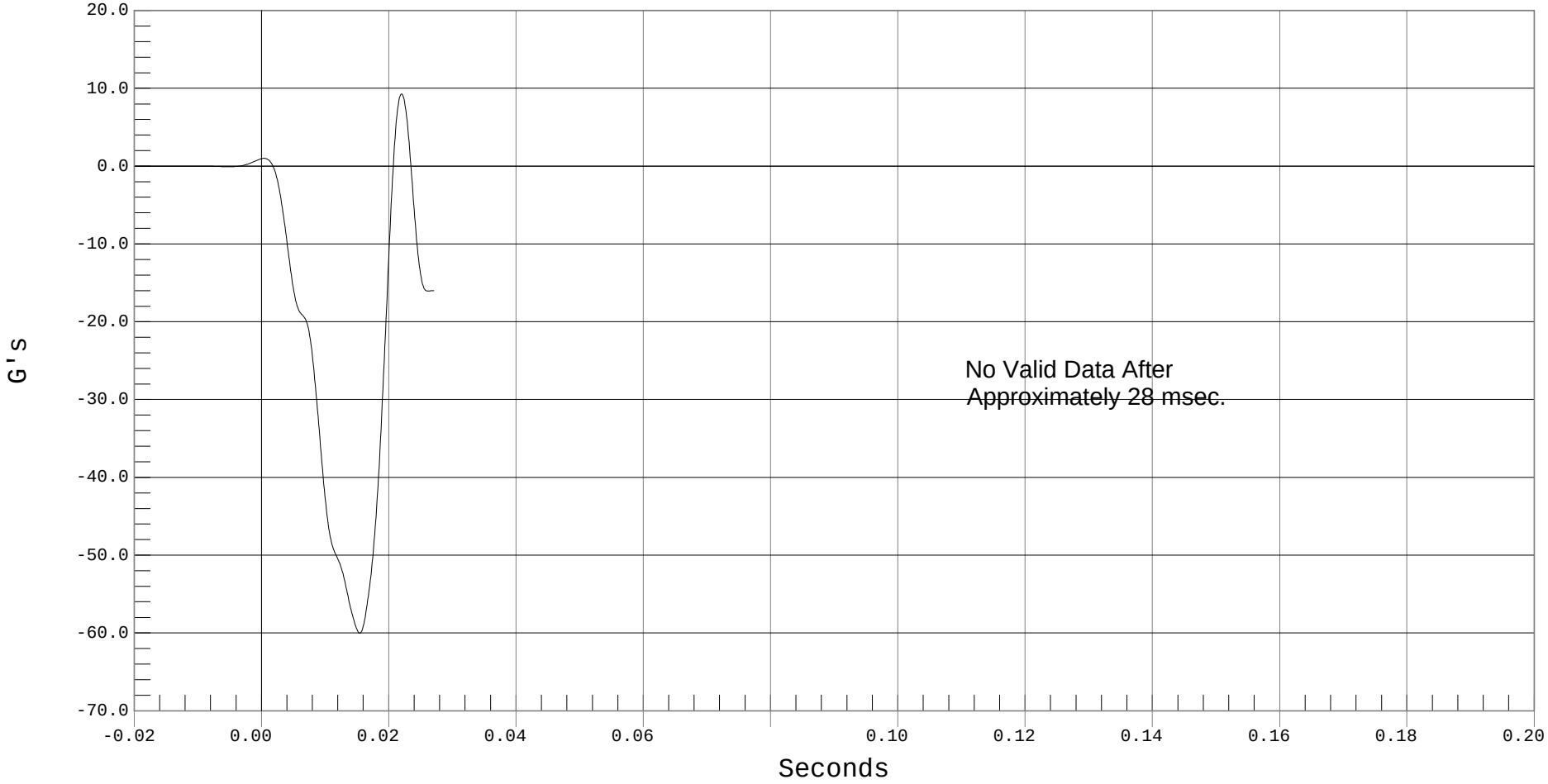
RIGHT FRONT SEAT TRACK Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 RIGHT FRONT FRONT SEAT TRACK Y, b01051AF.A30

Ymin = -60.02 G's @ 0.0154 Seconds, Ymax = 9.28 G's @ 0.0219 Seconds



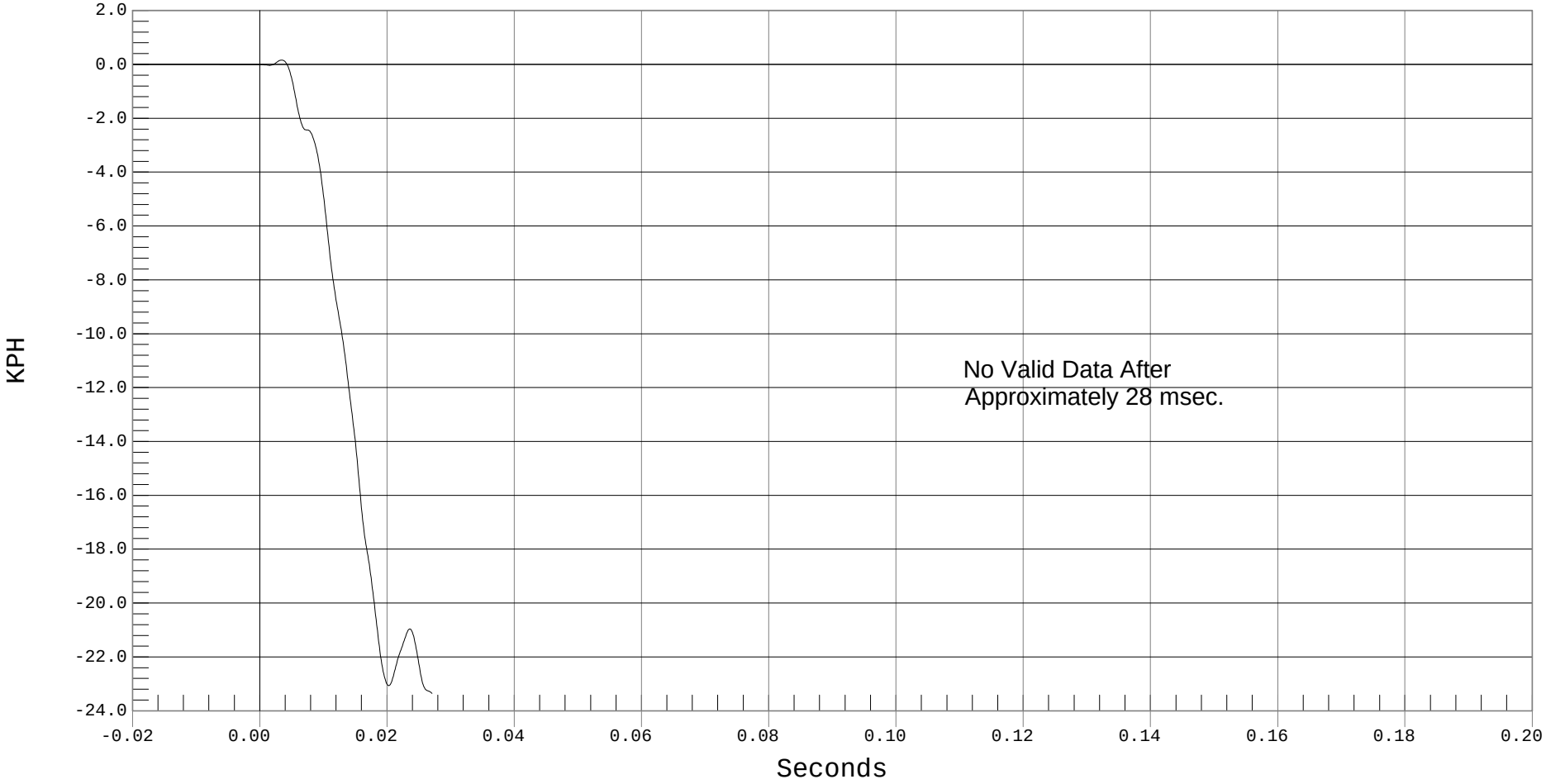
RIGHT DRIVER SEAT TRACK Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT SEAT TRACK Y VELOCITY, b01051AI.V30

Ymin = -23.35 KPH @ 0.0270 Seconds, Ymax = .16 KPH @ 0.0033 Seconds



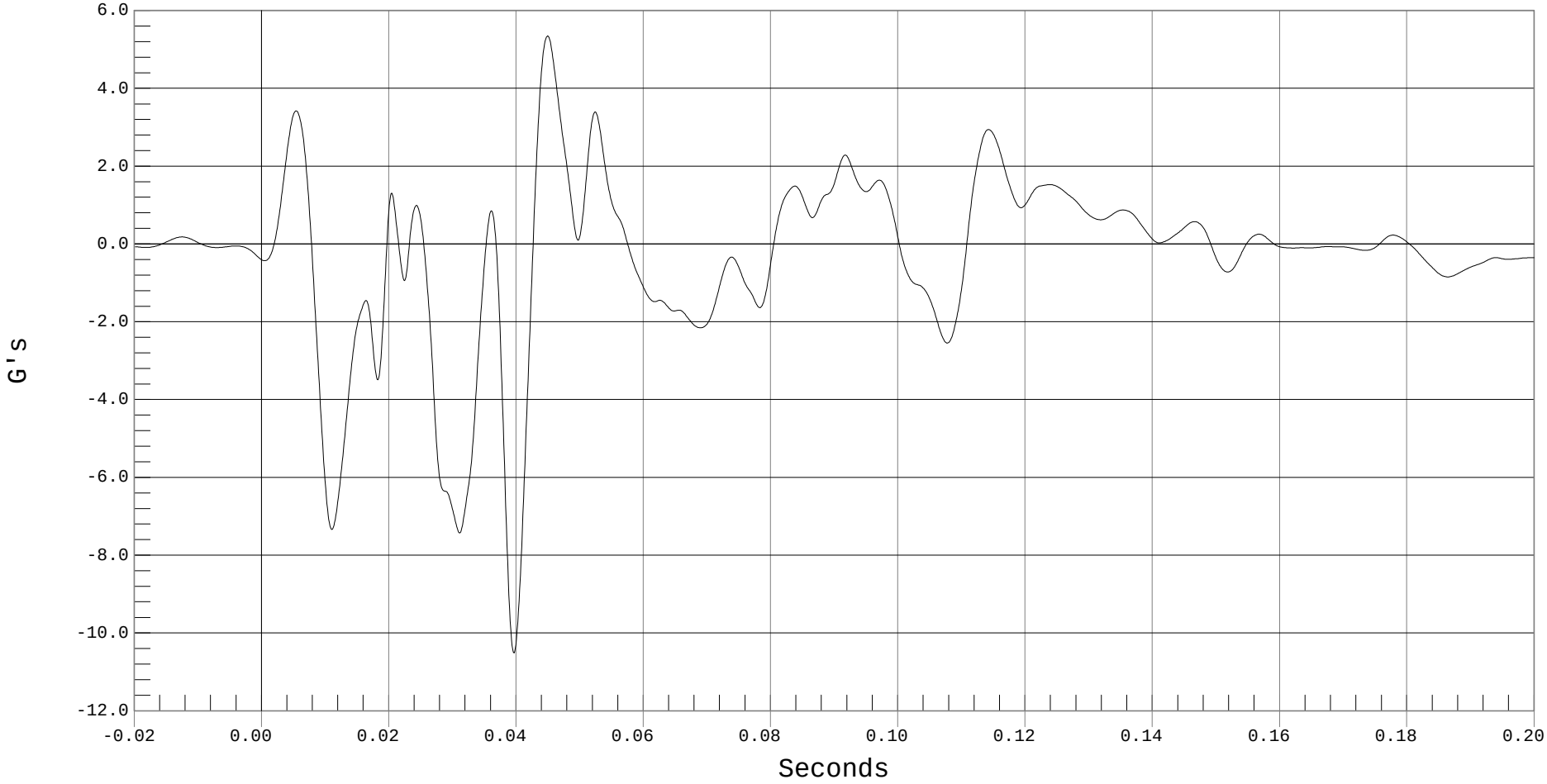
VEHICLE CG X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 VEHICLE CG X, b01051AF.A33

Ymin = -10.51 G's @ 0.0396 Seconds, Ymax = 5.35 G's @ 0.0449 Seconds



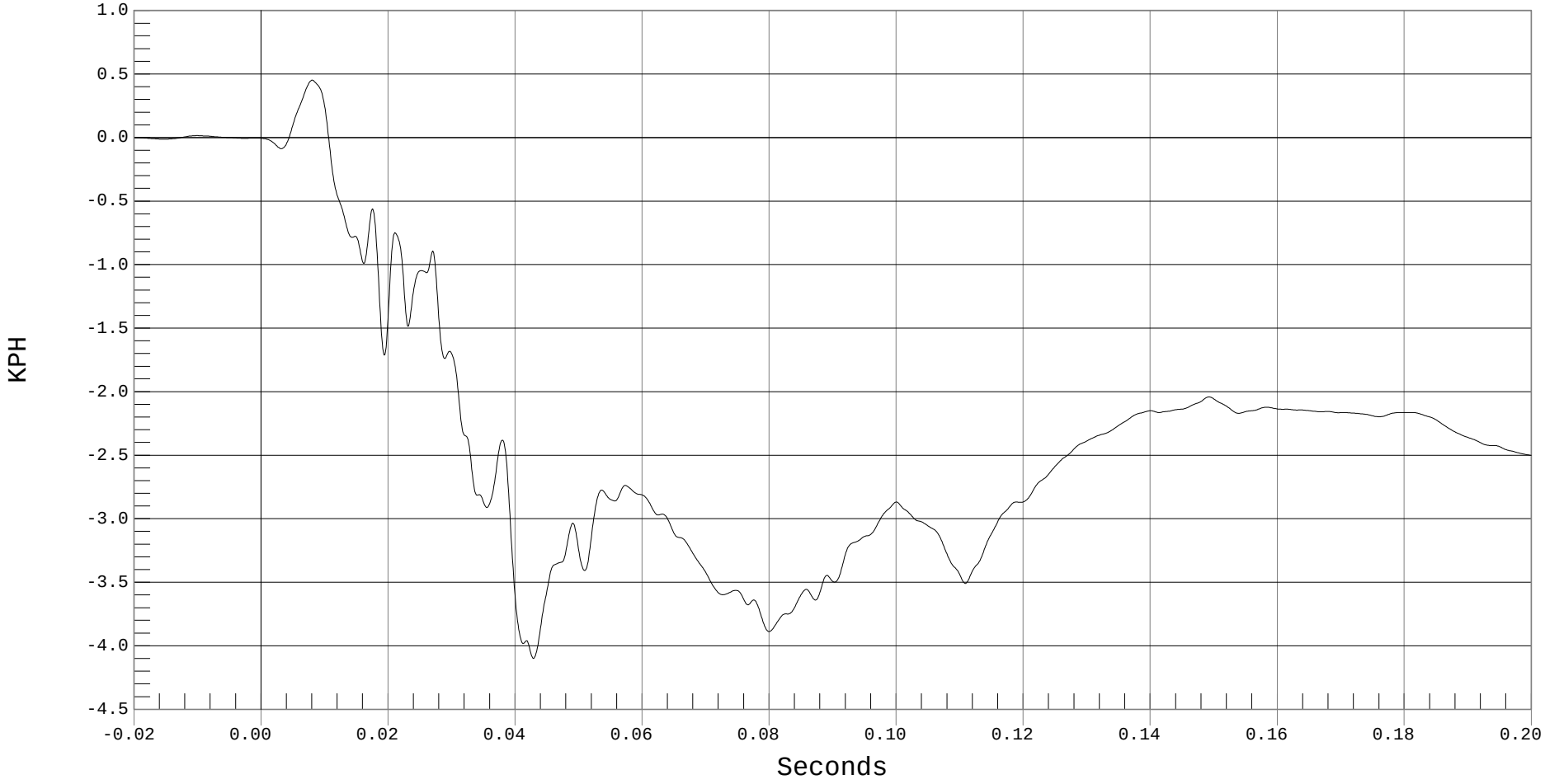
VEHICLE CG X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 VEHICLE CG X VELOCITY, b01051AI.V33

Ymin = -4.1 KPH @ 0.0428 Seconds, Ymax = .45 KPH @ 0.0080 Seconds



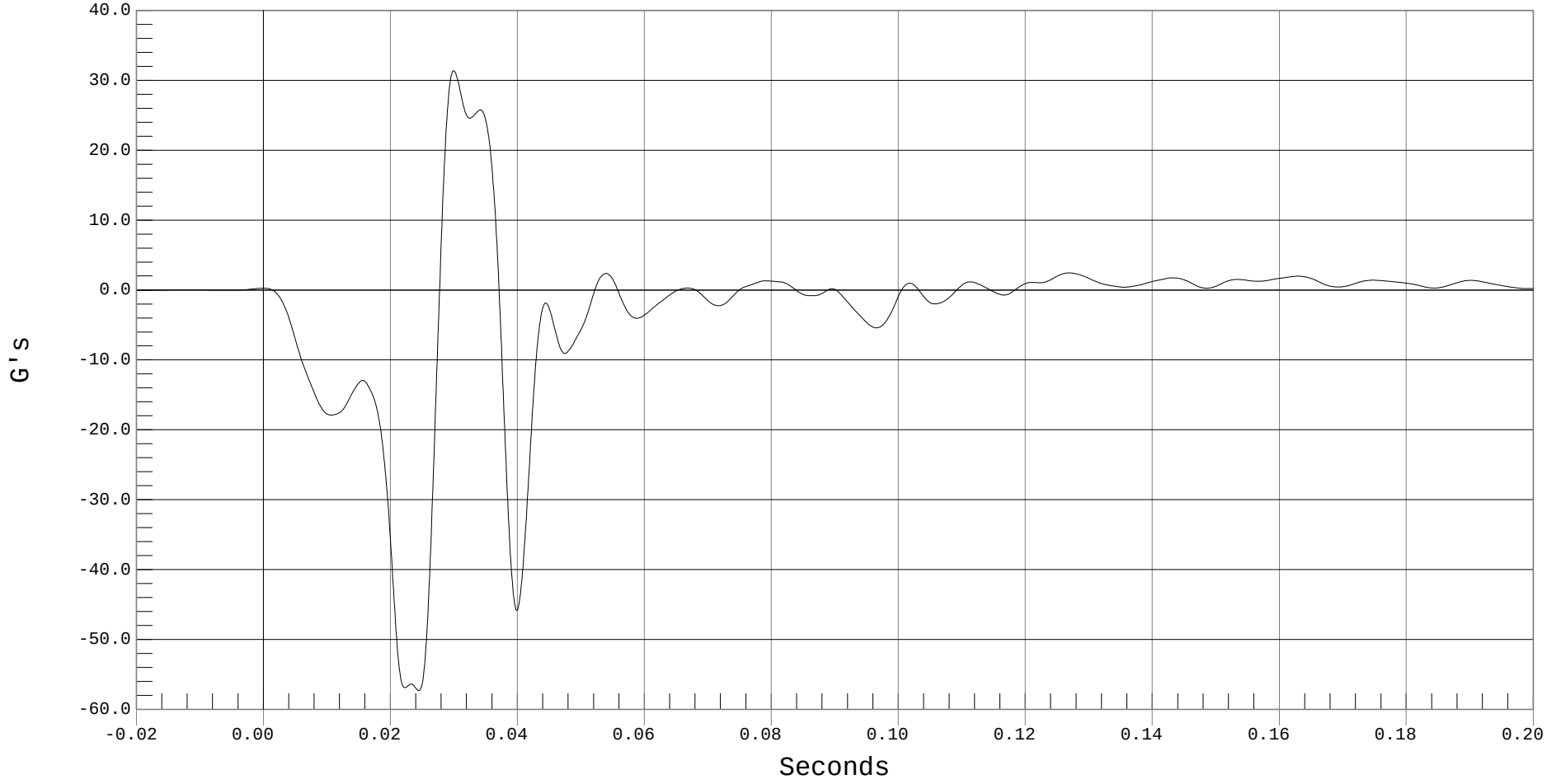
VEHICLE CG Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 VEHICLE CG Y, b01051AF.A34

Ymin = -57.34 G's @ 0.0244 Seconds, Ymax = 31.37 G's @ 0.0299 Seconds



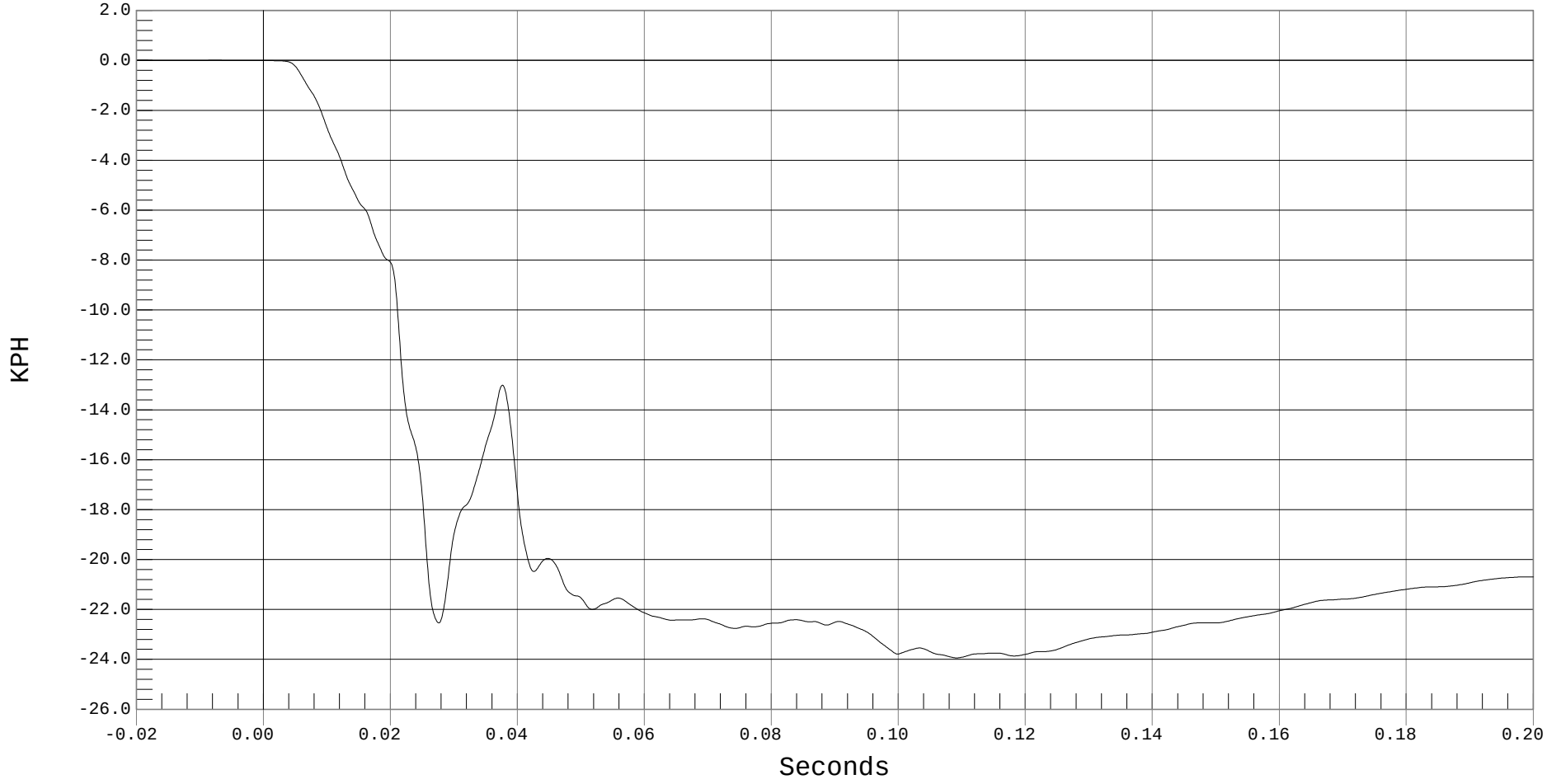
VEHICLE CG Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 VEHICLE CG Y VELOCITY, b01051AI.V34

Ymin = -23.94 KPH @ 0.1091 Seconds, Ymax = 0 KPH @ -0.0199 Seconds



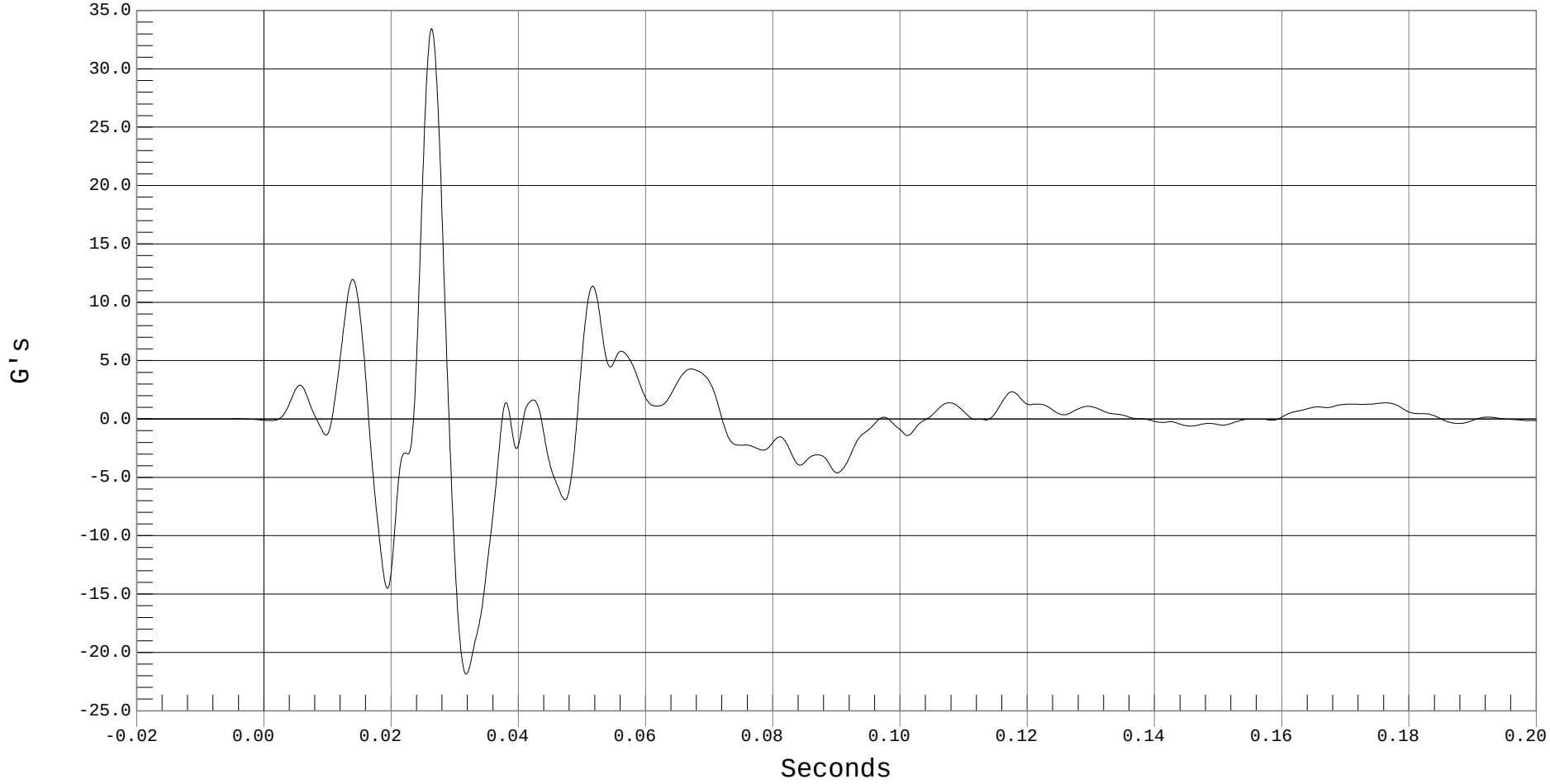
VEHICLE CG Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 VEHICLE CG Z, b01051AF.A35

Ymin = -21.86 G's @ 0.0317 Seconds, Ymax = 33.45 G's @ 0.0263 Seconds



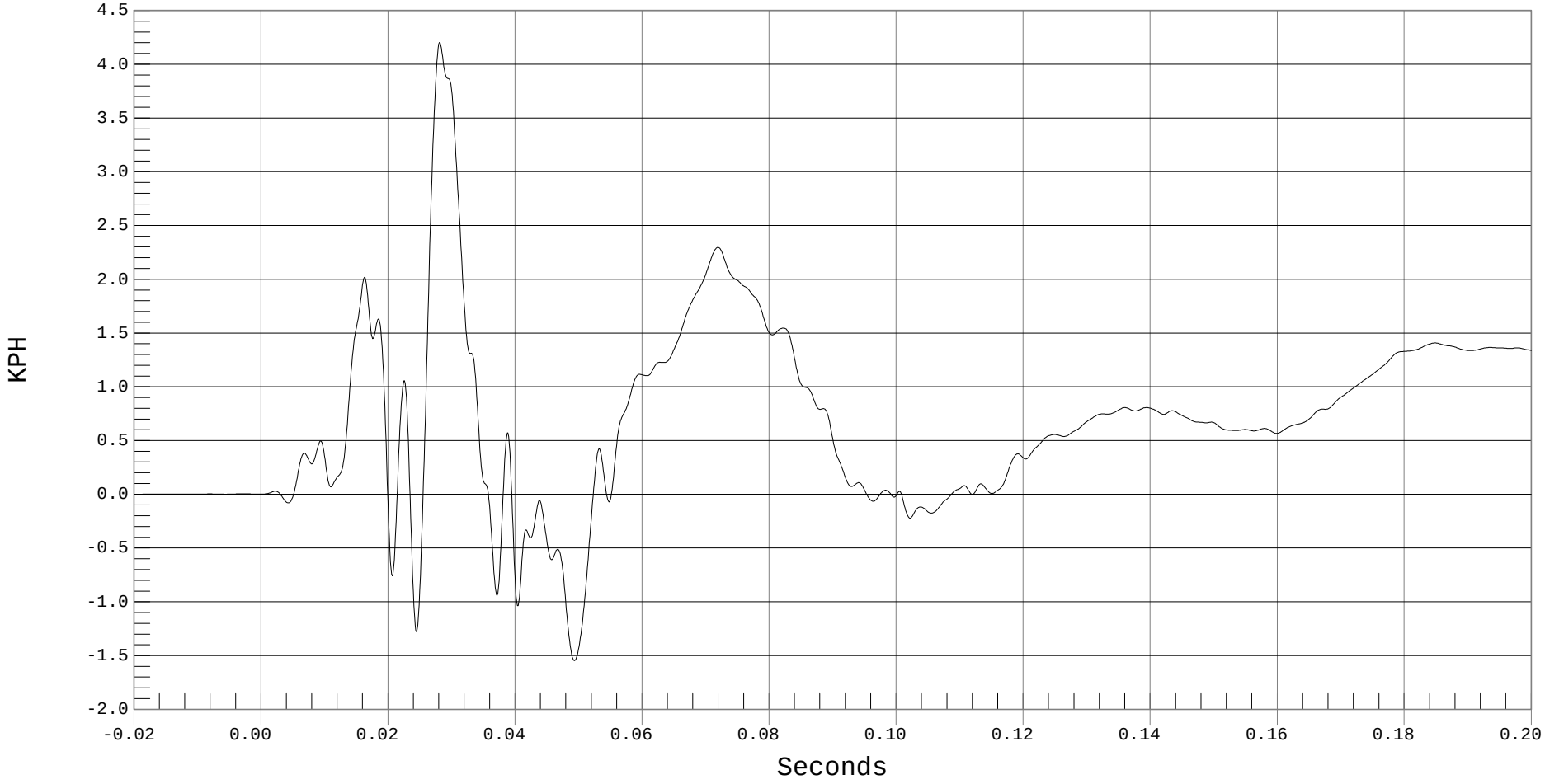
VEHICLE CG Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 VEHICLE CG Z VELOCITY, b01051AI.V35

Ymin = -1.55 KPH @ 0.0493 Seconds, Ymax = 4.2 KPH @ 0.0280 Seconds



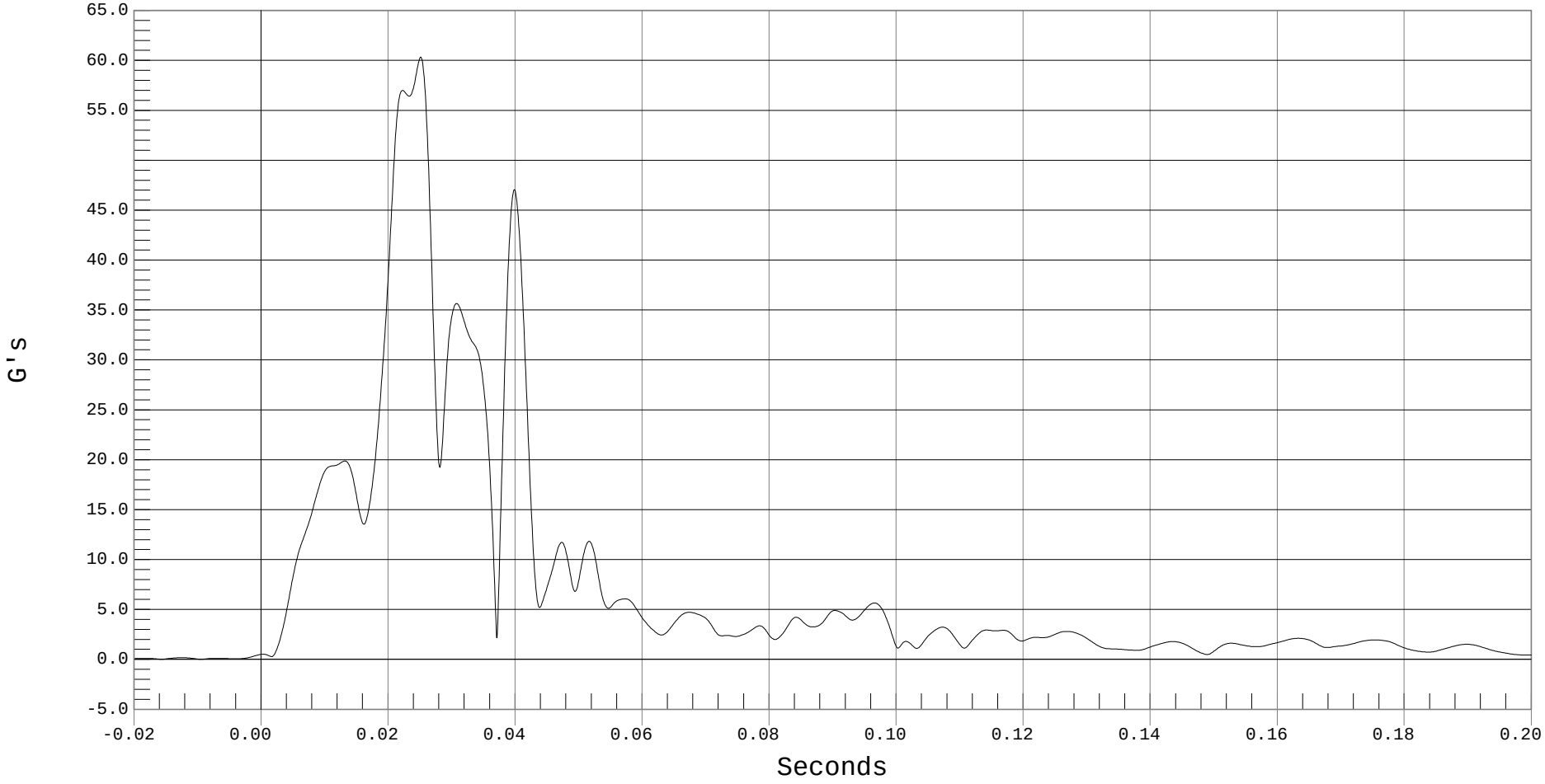
VEHICLE CG RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 VEHICLE CG RESULTANT ACCELERATION, b01051AV.A33

Ymin = 0 G's @ -0.0157 Seconds, Ymax = 60.32 G's @ 0.0250 Seconds



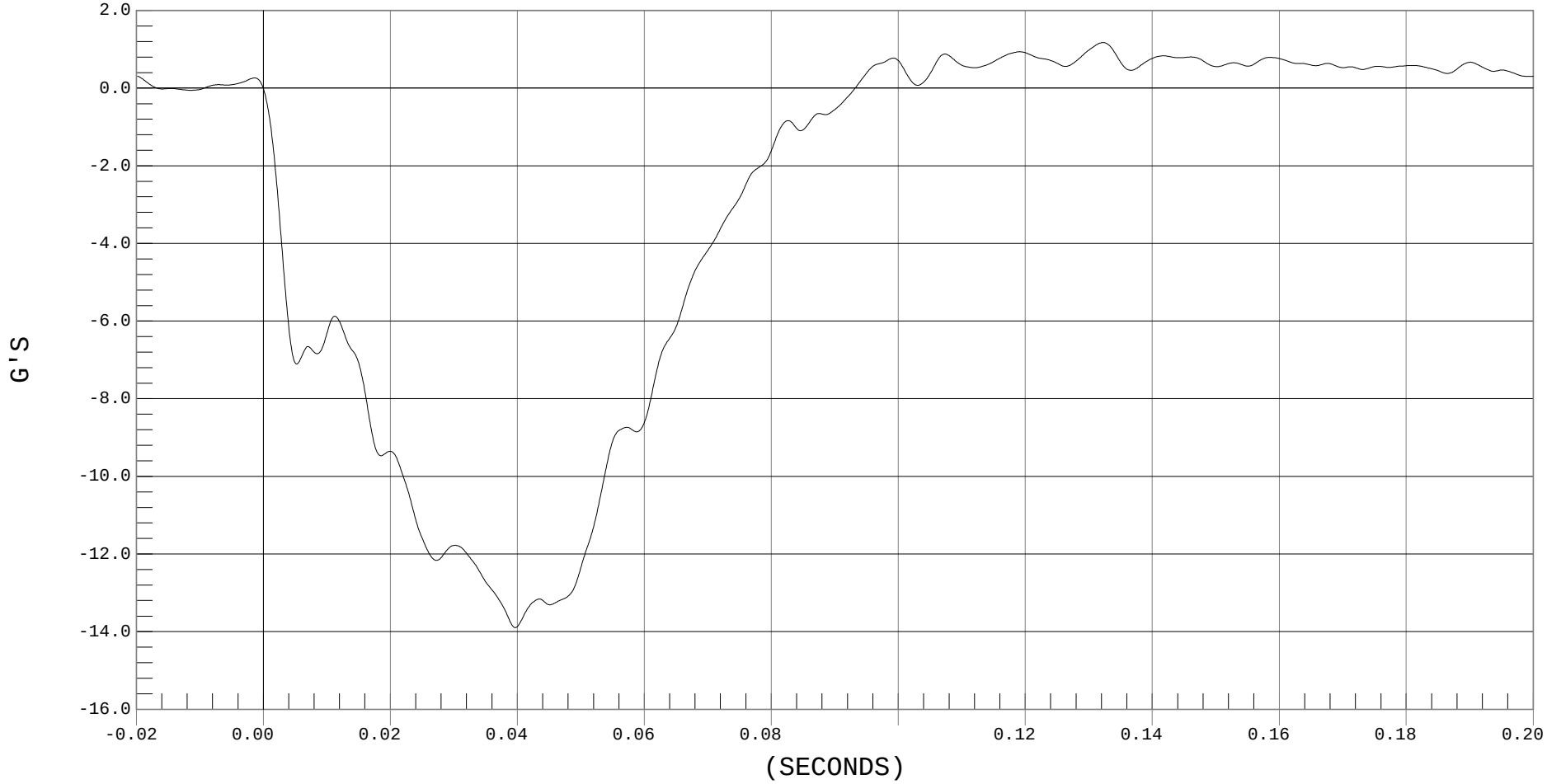
MOVING BARRIER CG X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 MOVING BARRIER CG X, b01051AF.A02

Ymin = -13.9 G'S @ 0.0396 SECONDS, Ymax = 1.17 G'S @ 0.1321 SECONDS



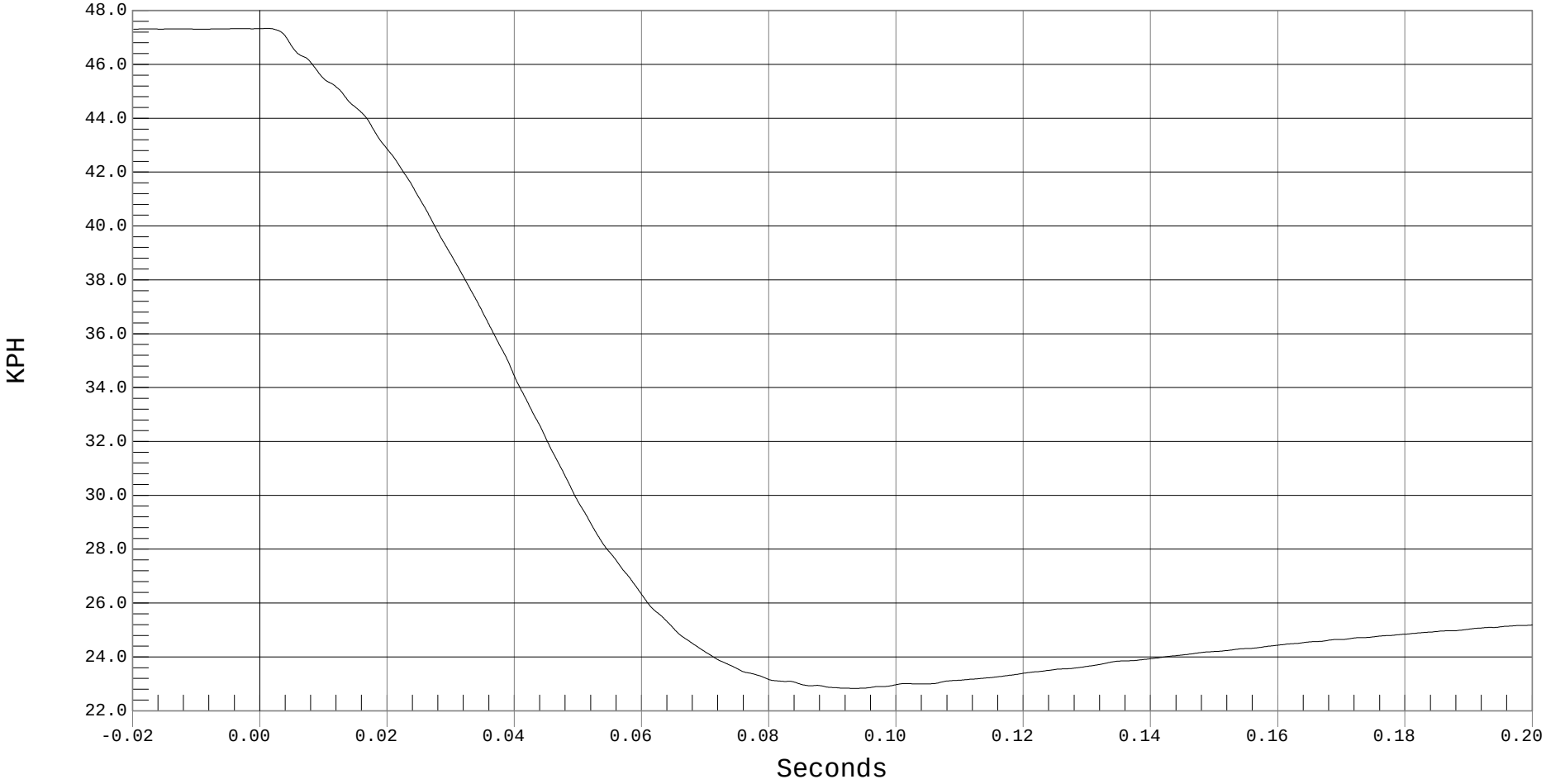
MOVING BARRIER CG X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 MOVING BARRIER CG X VELOCITY, b01051AI.V02

Ymin = 22.83 KPH @ 0.0933 Seconds, Ymax = 47.34 KPH @ 0.0011 Seconds



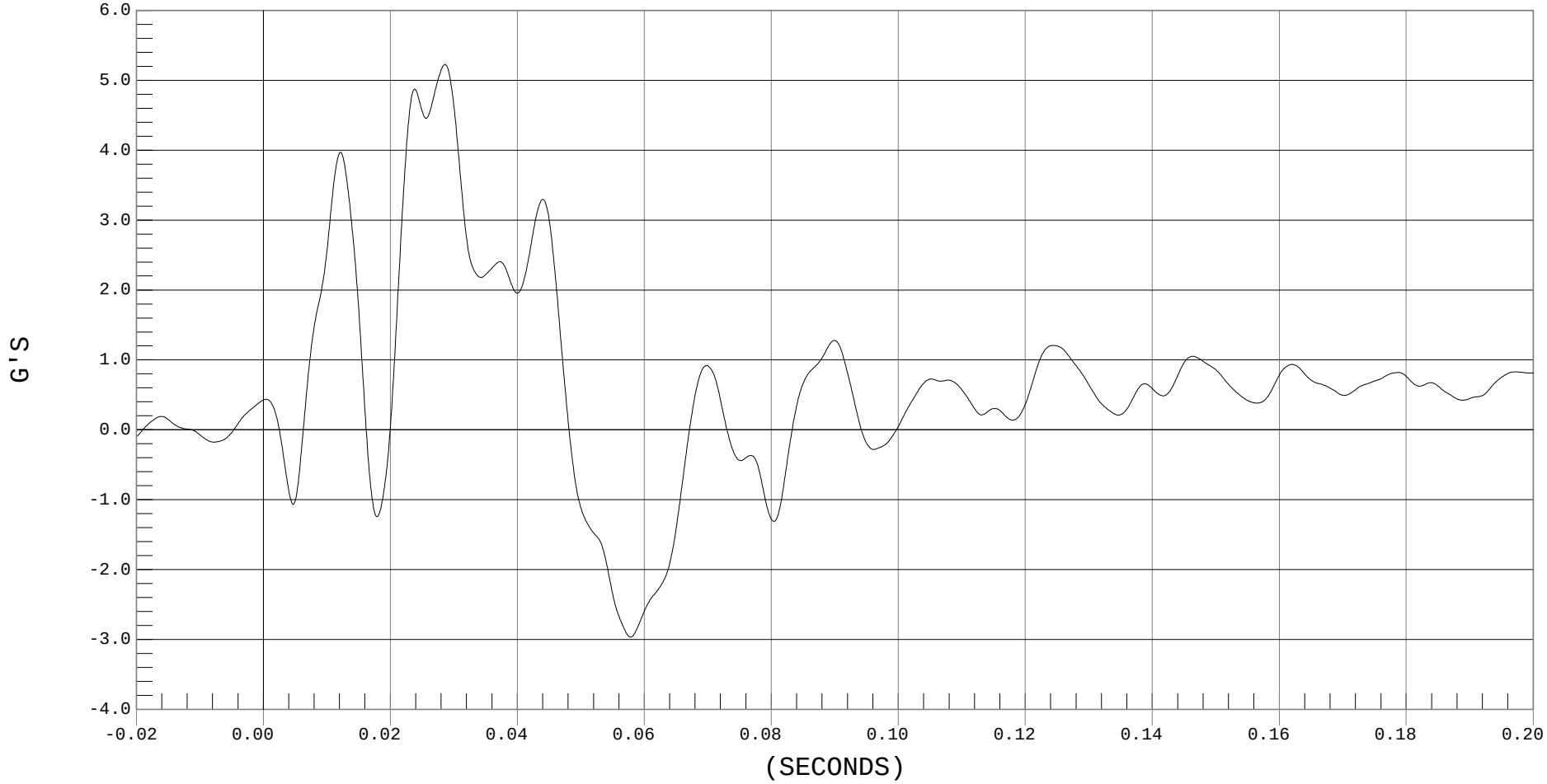
MOVING BARRIER CG Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 MOVING BARRIER CG Y, b01051AF.A03

Ymin = -2.97 G'S @ 0.0577 SECONDS, Ymax = 5.23 G'S @ 0.0285 SECONDS



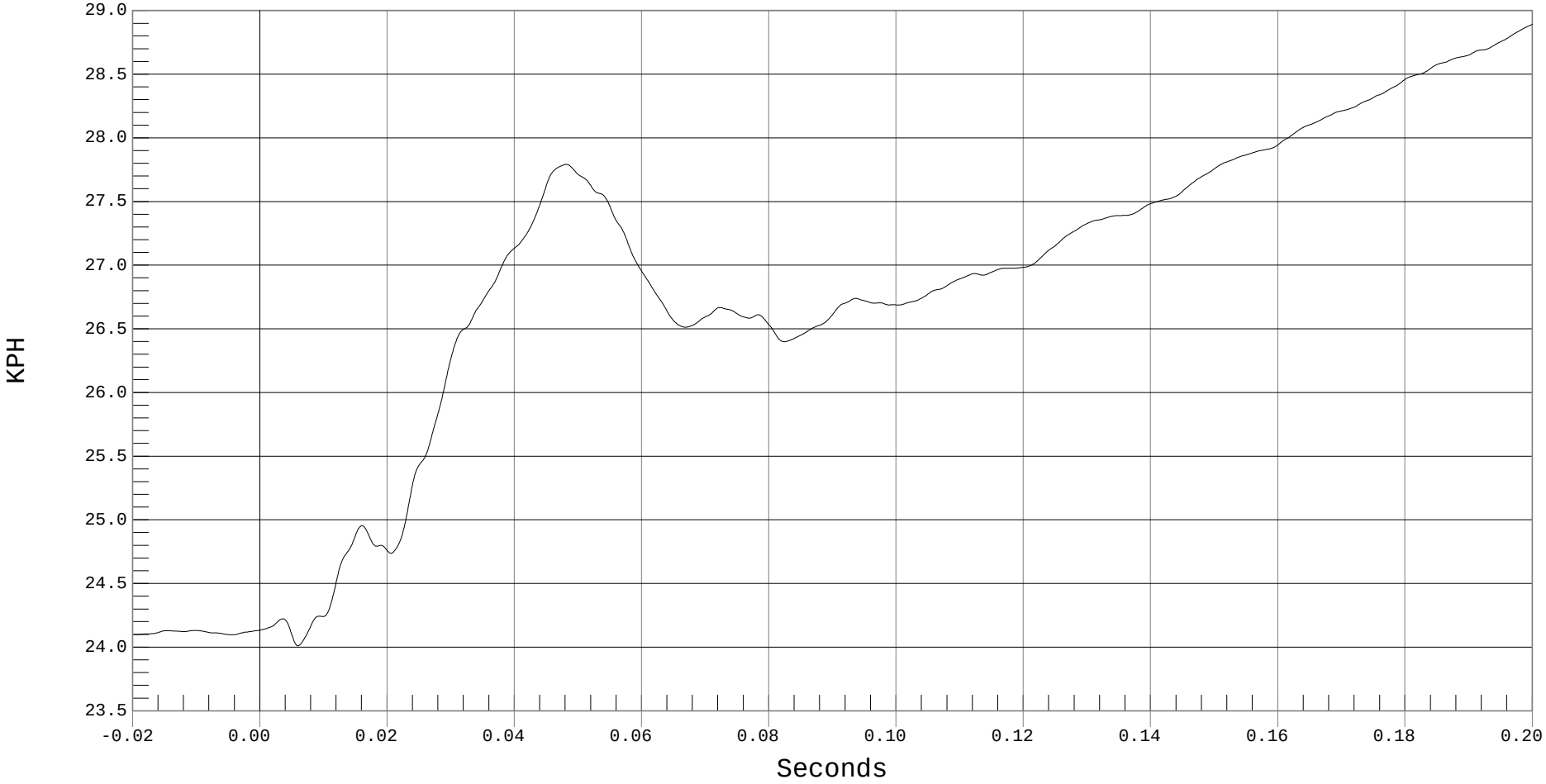
MOVING BARRIER CG Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 MOVING BARRIER CG Y VELOCITY, b01051AI.V03

Ymin = 24.01 KPH @ 0.0059 Seconds, Ymax = 28.89 KPH @ 0.2000 Seconds



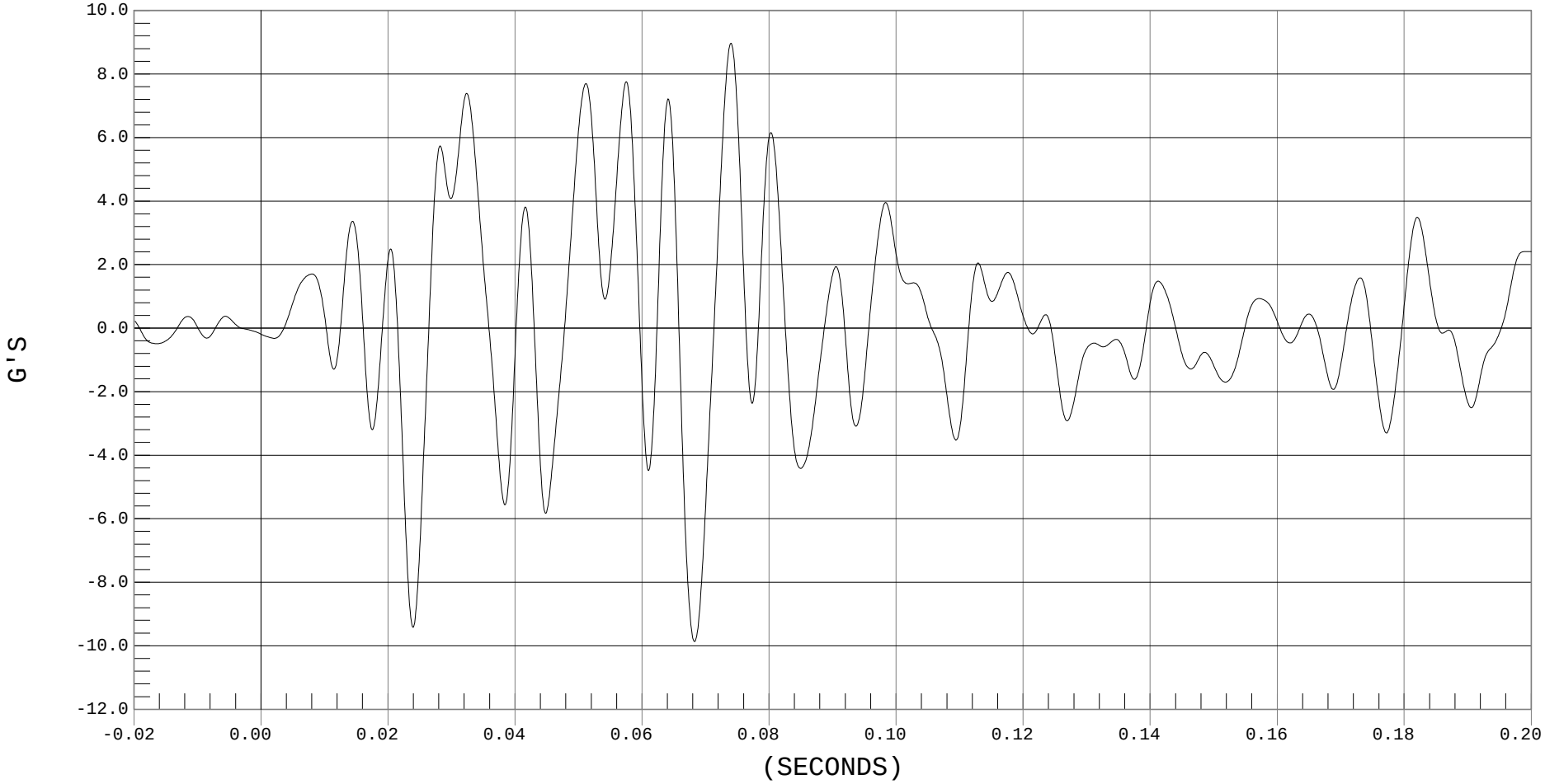
MOVING BARRIER CG Z ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 MOVING BARRIER CG Z, b01051AF.A04

Ymin = -9.87 G'S @ 0.0682 SECONDS, Ymax = 8.97 G'S @ 0.0739 SECONDS



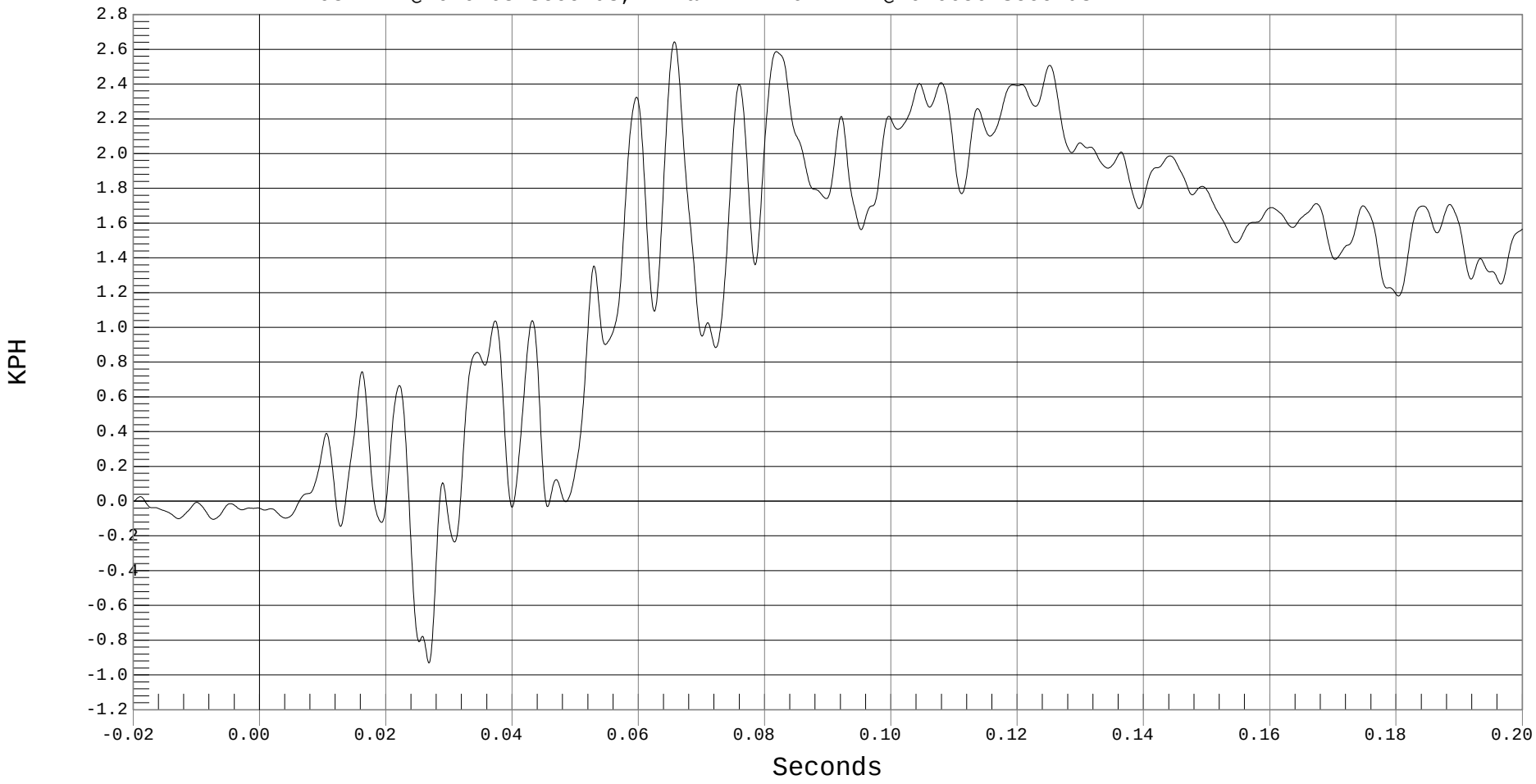
MOVING BARRIER CG Z VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 MOVING BARRIER CG Z VELOCITY, b01051AI.V04

Ymin = -.93 KPH @ 0.0268 Seconds, Ymax = 2.64 KPH @ 0.0656 Seconds



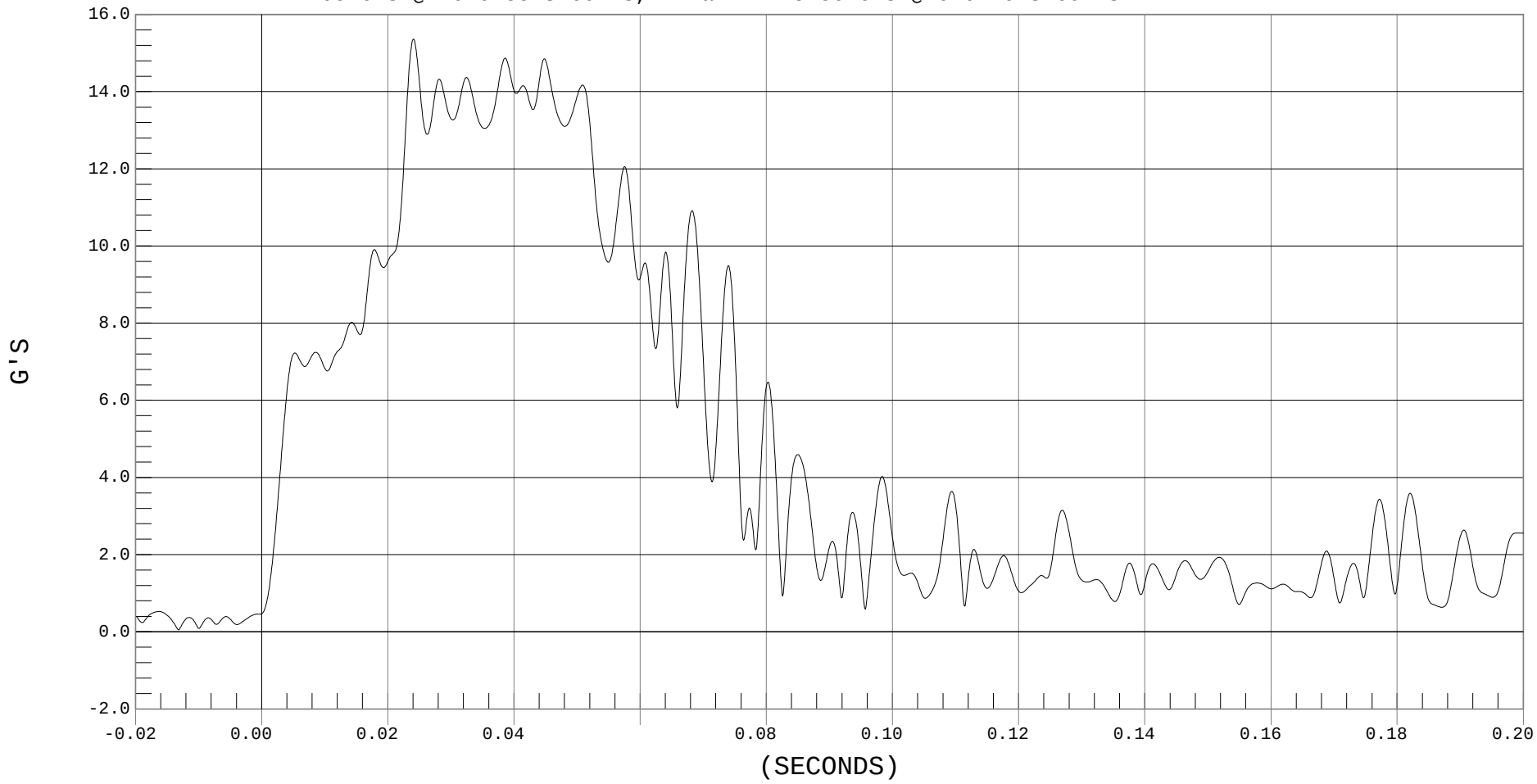
MOVING BARRIER CG RESULTANT ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 MOVING BARRIER CG RESULTANT ACCELERATION, b01051AV.A02

Ymin = .05 G'S @ -0.0133 SECONDS, Ymax = 15.36 G'S @ 0.0240 SECONDS



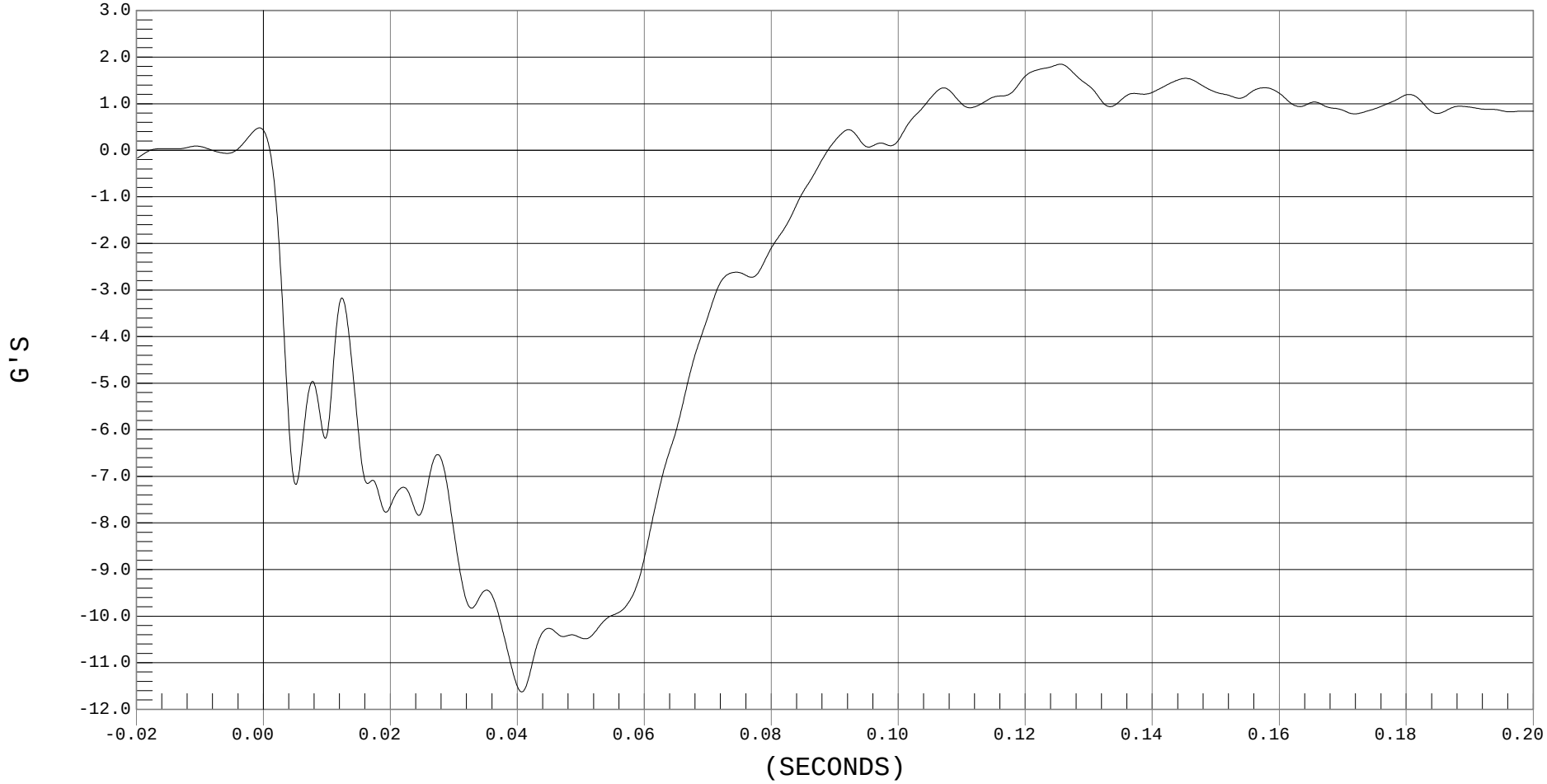
MOVING BARRIER REAR AXLE X ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 MOVING BARRIER REAR AXLE X, b01051AF.A05

Ymin = -11.63 G'S @ 0.0406 SECONDS, Ymax = 1.85 G'S @ 0.1254 SECONDS



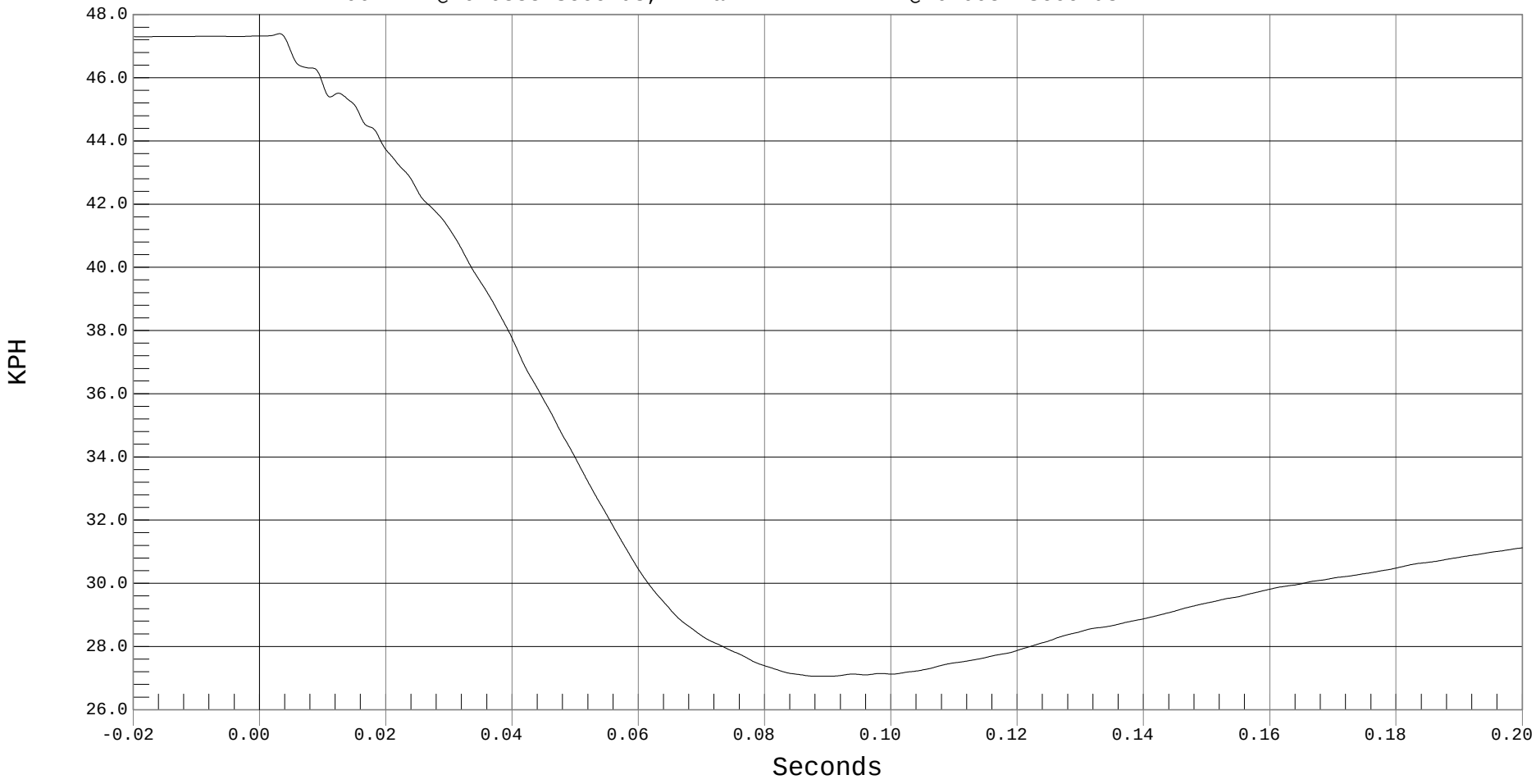
MOVING BARRIER REAR AXLE X VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 MOVING BARRIER REAR AXLE X VELOCITY, b01051AI.V05

Ymin = 27.06 KPH @ 0.0883 Seconds, Ymax = 47.4 KPH @ 0.0031 Seconds



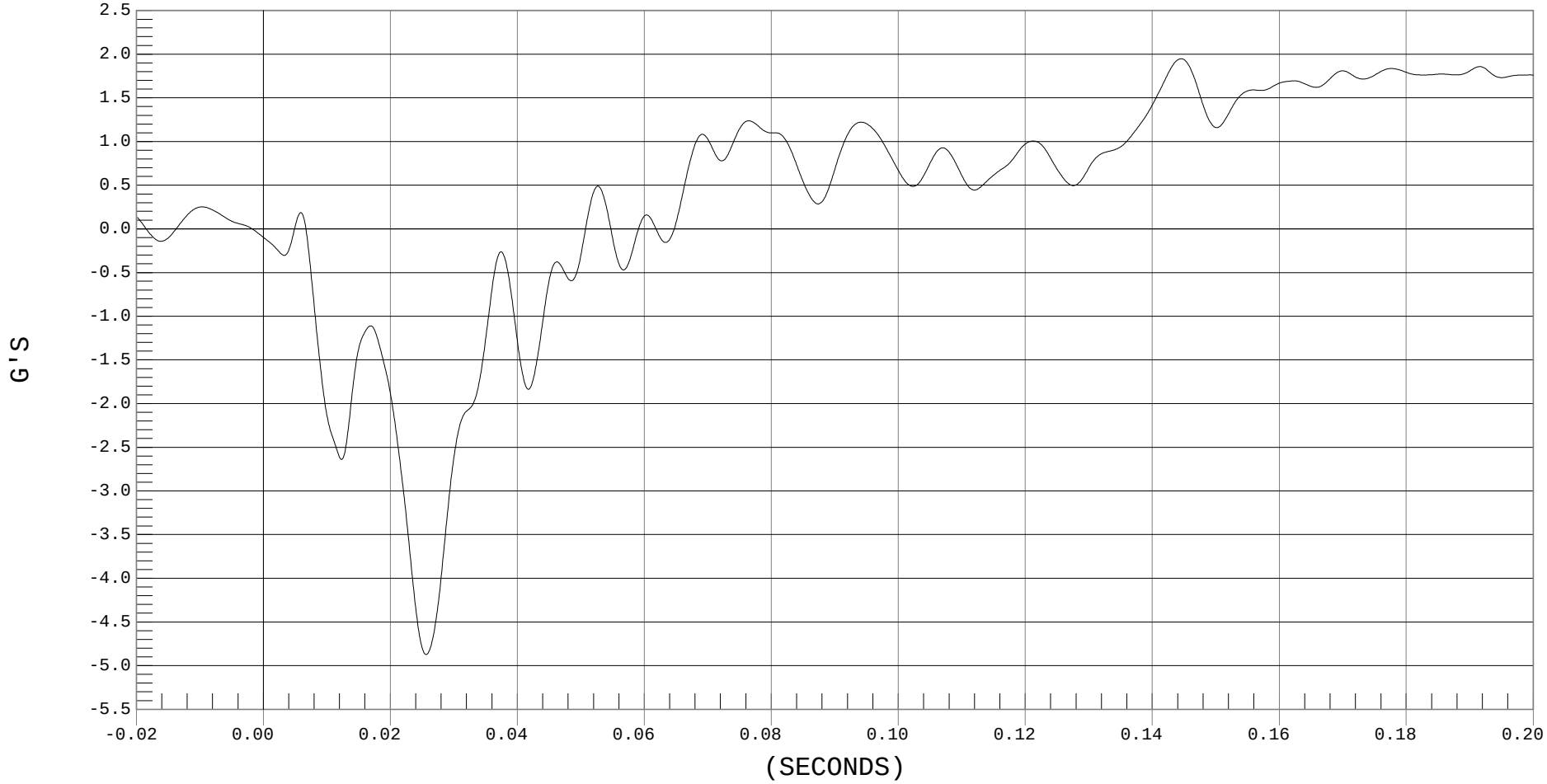
MOVING BARRIER REAR AXLE Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 60

1 MOVING BARRIER REAR AXLE Y, b01051AF.A06

Ymin = -4.87 G'S @ 0.0255 SECONDS, Ymax = 1.95 G'S @ 0.1444 SECONDS



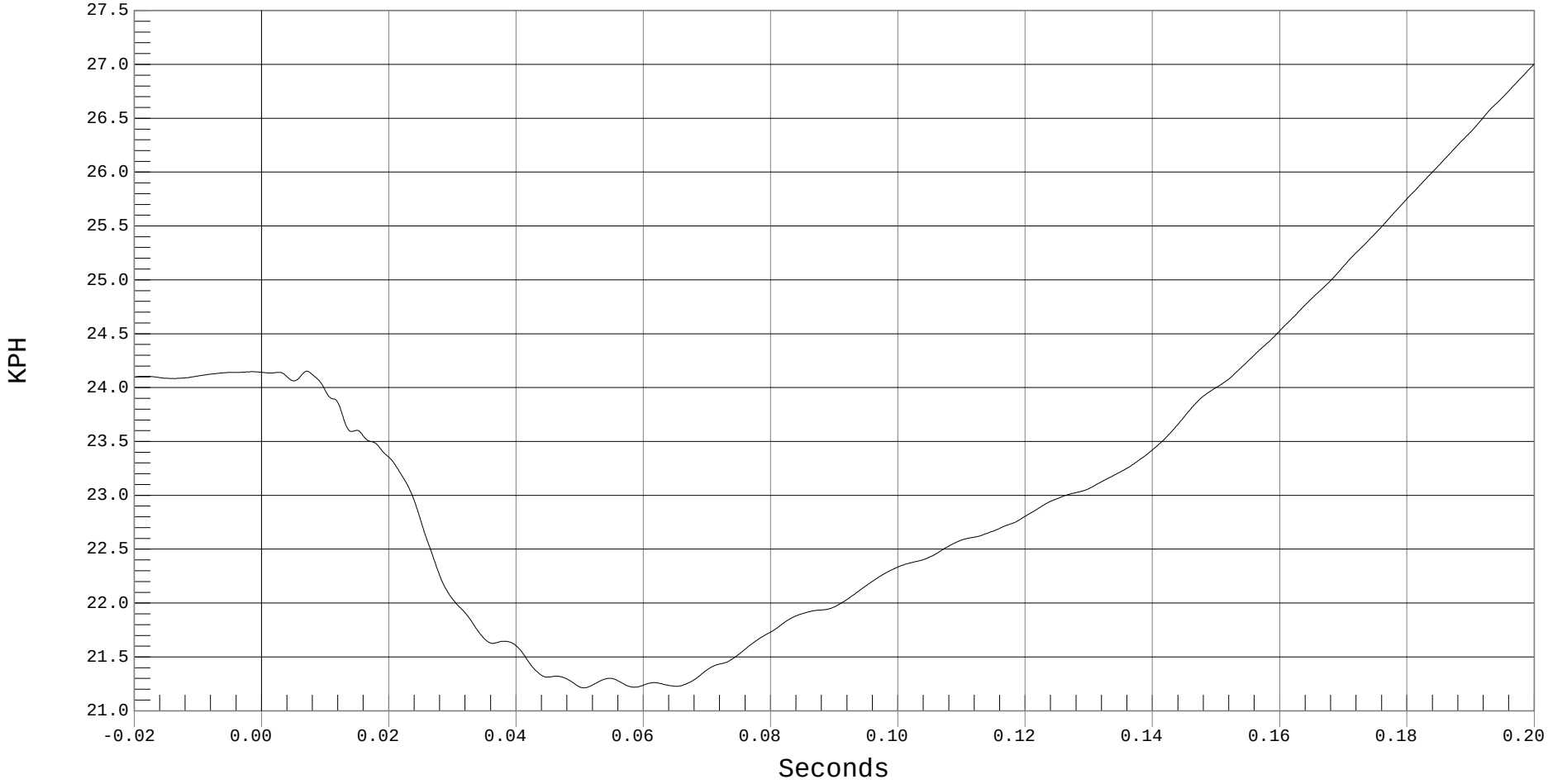
MOVING BARRIER REAR AXLE Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 MOVING BARRIER REAR AXLE Y VELOCITY, b01051AI.V06

Ymin = 21.21 KPH @ 0.0505 Seconds, Ymax = 27.01 KPH @ 0.2000 Seconds



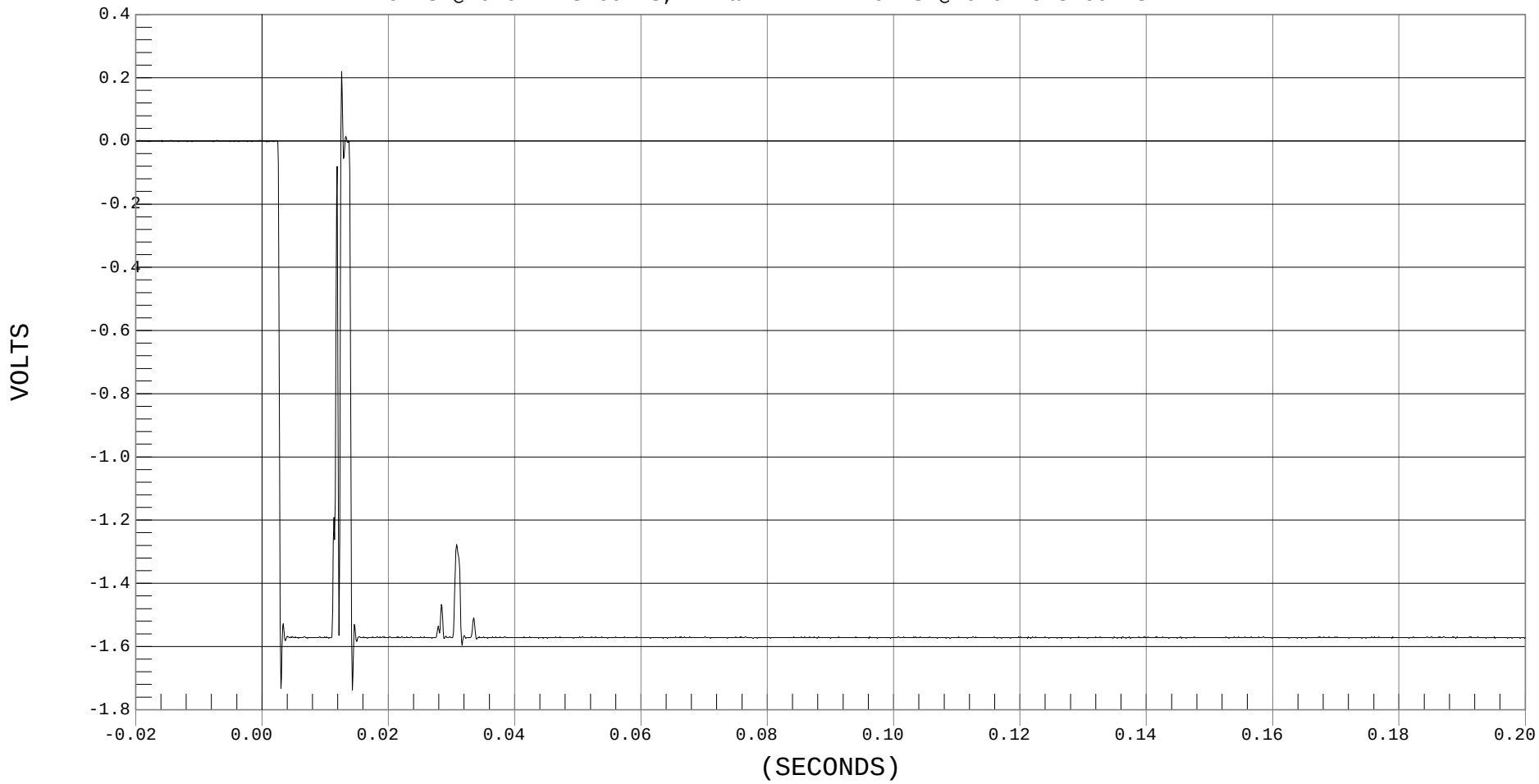
LEFT BARRIER CONTACT

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 LEFT BARRIER CONTACT, b01051OT.O09

Ymin = -1.74 VOLTS @ 0.0142 SECONDS, Ymax = .22 VOLTS @ 0.0125 SECONDS



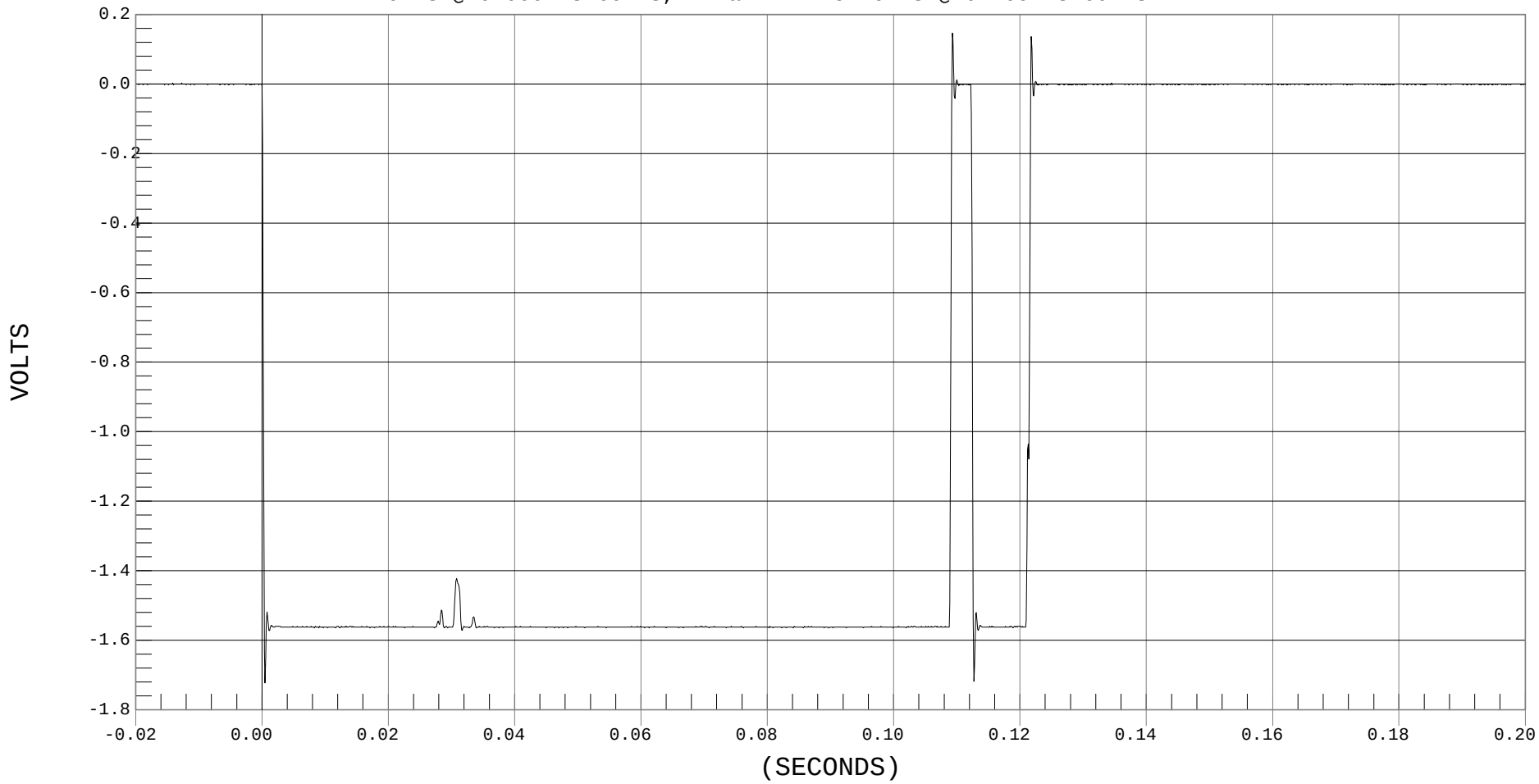
RIGHT BARRIER CONTACT

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT BARRIER CONTACT, b01051OT.O10

Ymin = -1.72 VOLTS @ 0.0004 SECONDS, Ymax = .15 VOLTS @ 0.1092 SECONDS



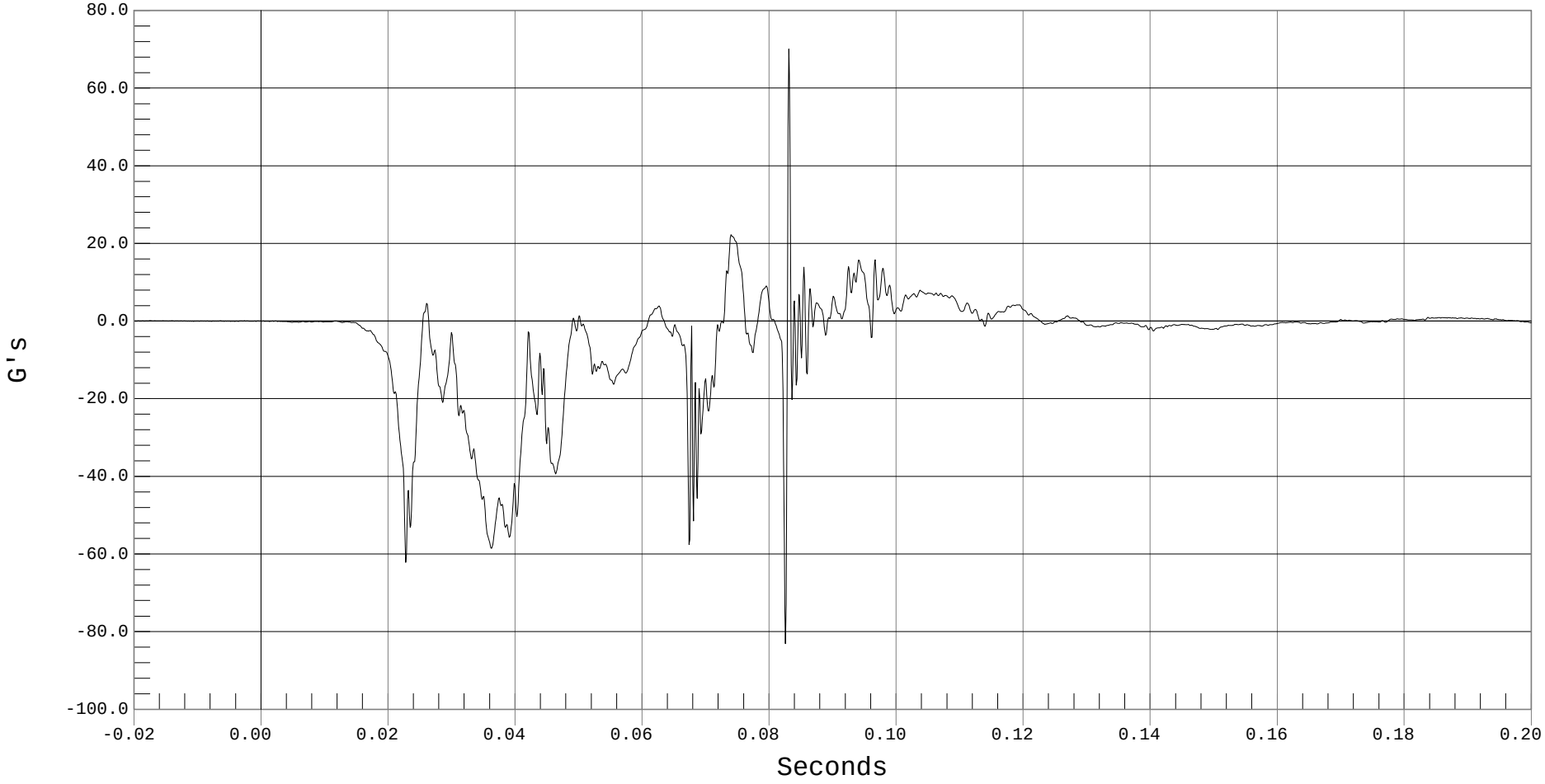
RIGHT FRONT UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT UPPER RIB Y REDUNDANT ACCECLERATION, b01051AT.A41

Ymin = -83.09 G's @ 0.0825 Seconds, Ymax = 70.07 G's @ -0.0830 Seconds



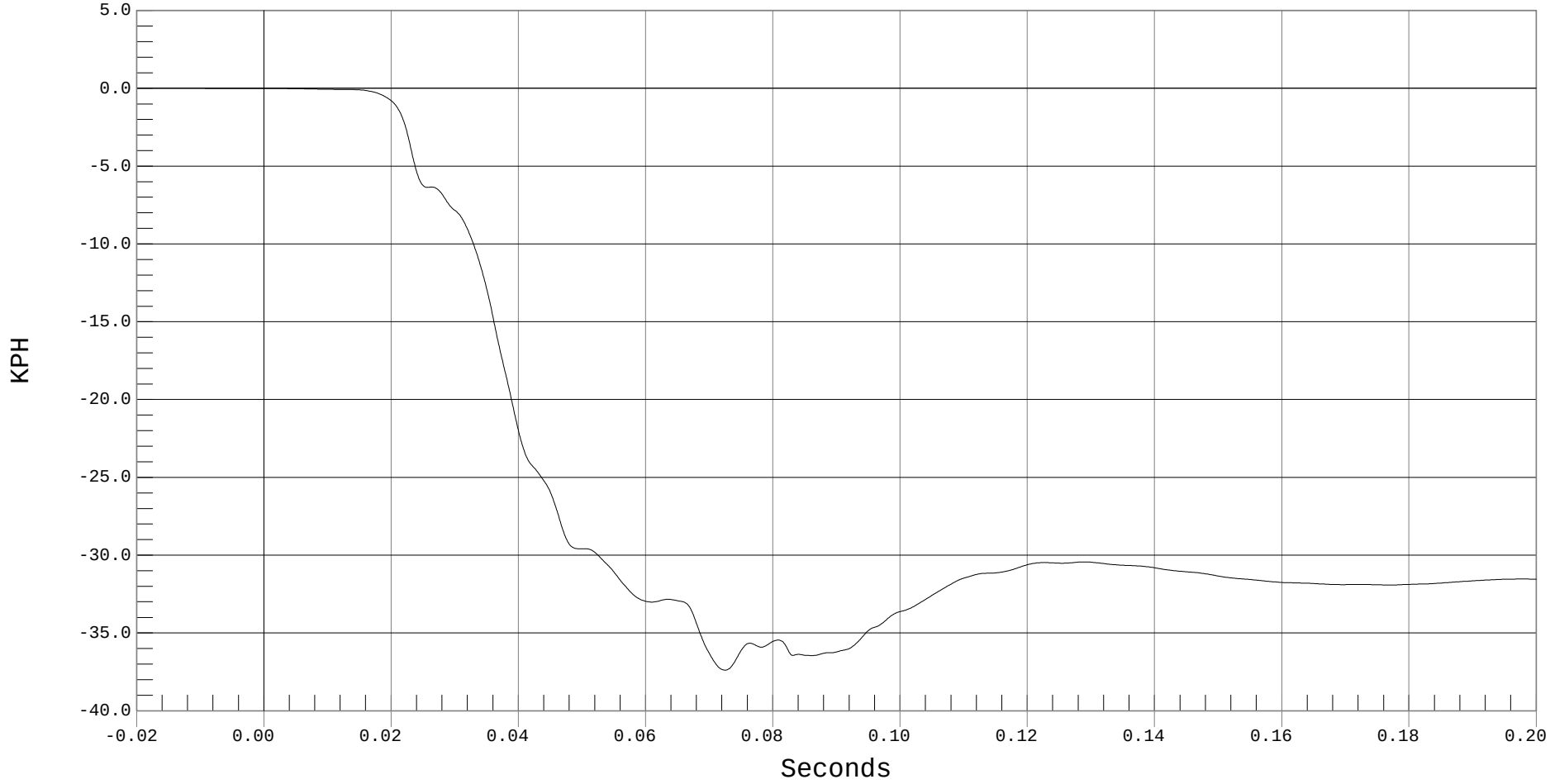
RIGHT FRONT UPPER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT UPPER RIB Y REDUNDANT VELOCITY, b01051AI.V41

Ymin = -37.39 KPH @ 0.0724 Seconds, Ymax = 0 KPH @ -0.0132 Seconds



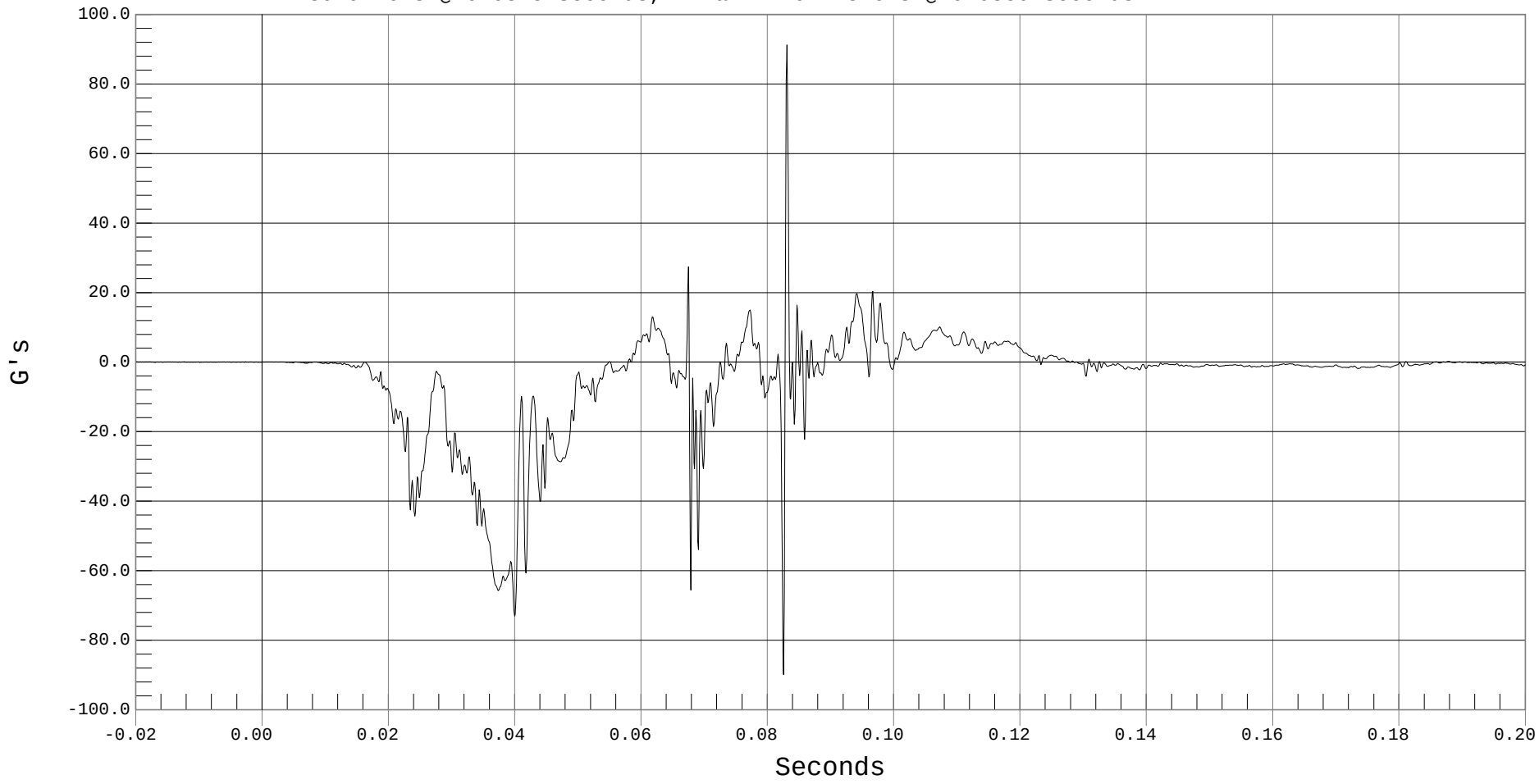
RIGHT FRONT LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT LOWER RIB Y REDUNDANT ACCELERATION, b01051AT.A42

Ymin = -89.92 G's @ 0.0825 Seconds, Ymax = 91.23 G's @ 0.0830 Seconds



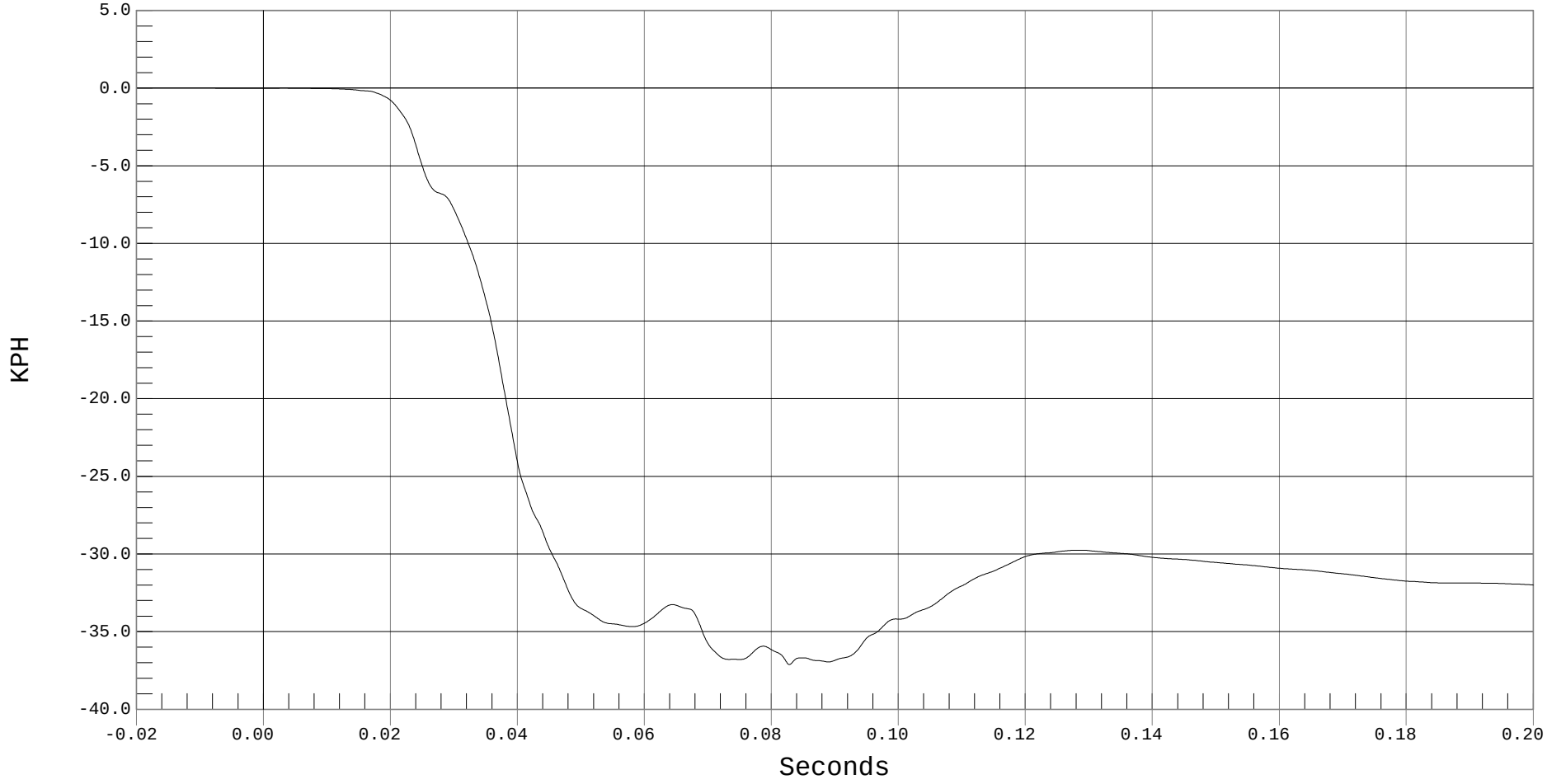
RIGHT FRONT LOWER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT LOWER RIB Y REDUNDANT VELOCITY, b01051AI.V42

Ymin = -37.12 KPH @ 0.0828 Seconds, Ymax = 0 KPH @ -0.0141 Seconds



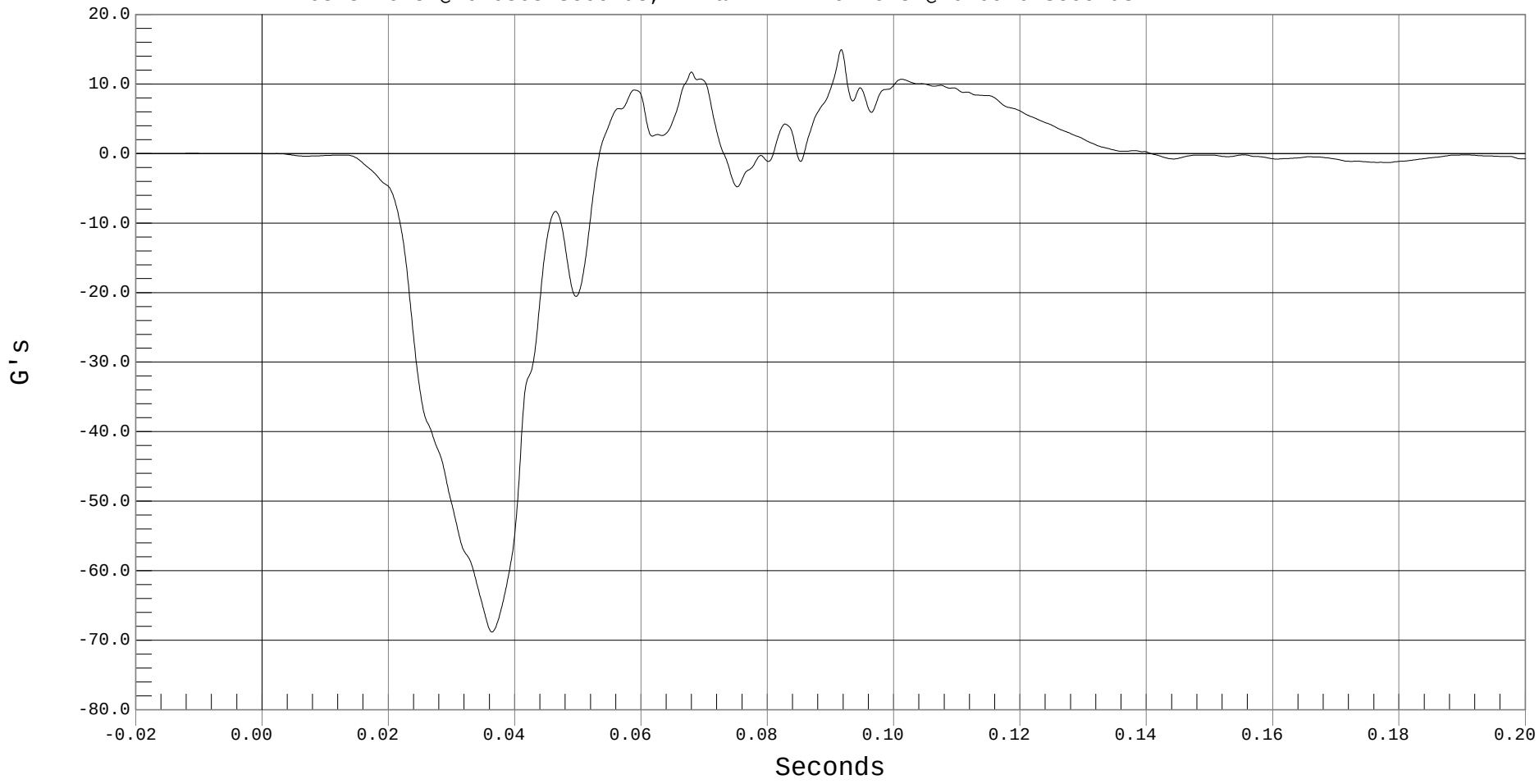
RIGHT FRONT LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT PASSENGER LOWER SPINE Yr, b01051AF.A43

Ymin = -68.82 G's @ 0.0363 Seconds, Ymax = 14.97 G's @ 0.0916 Seconds



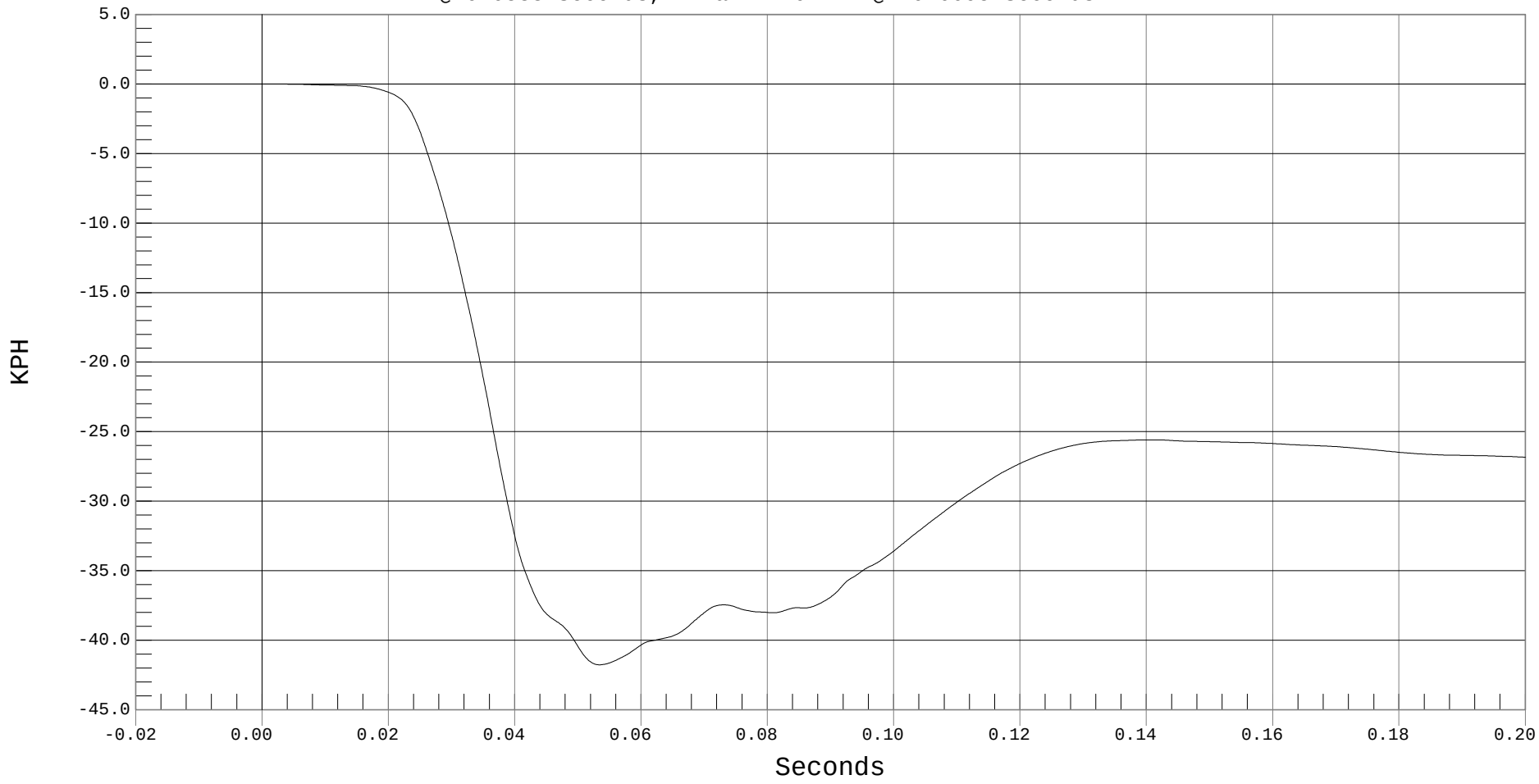
RIGHT FRONT LOWER SPINE REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT LOWER SPINE Y REDUNDANT VELOCITY, b01051AI.V43

Ymin = -41.77 KPH @ 0.0533 Seconds, Ymax = 0 KPH @ -0.0095 Seconds



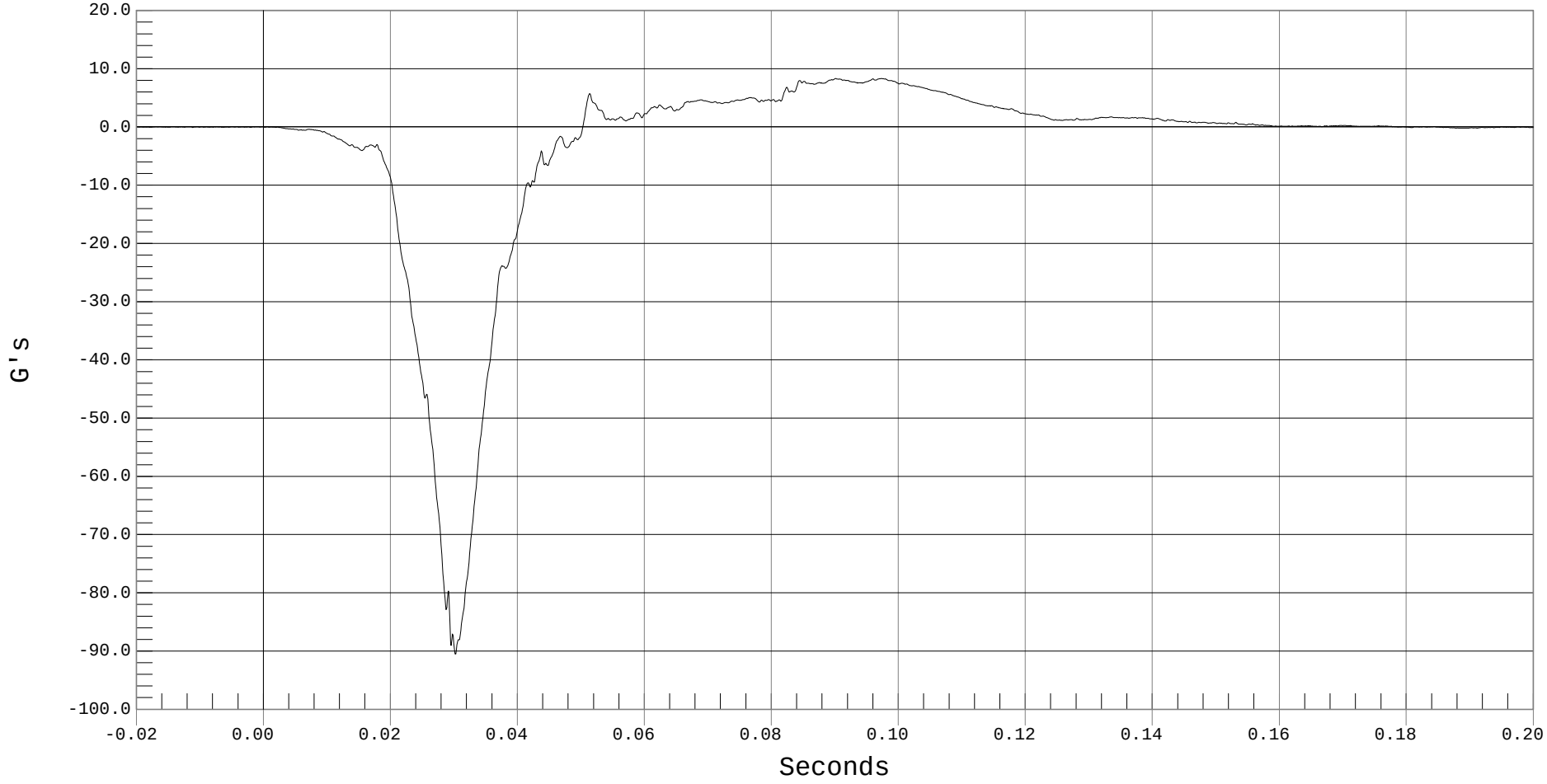
RIGHT FRONT PELVIS REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT FRONT PASSENGER PELVIS Yr, b01051AT.A44

Ymin = -90.52 G's @ 0.0301 Seconds, Ymax = 8.33 G's @ 0.0900 Seconds



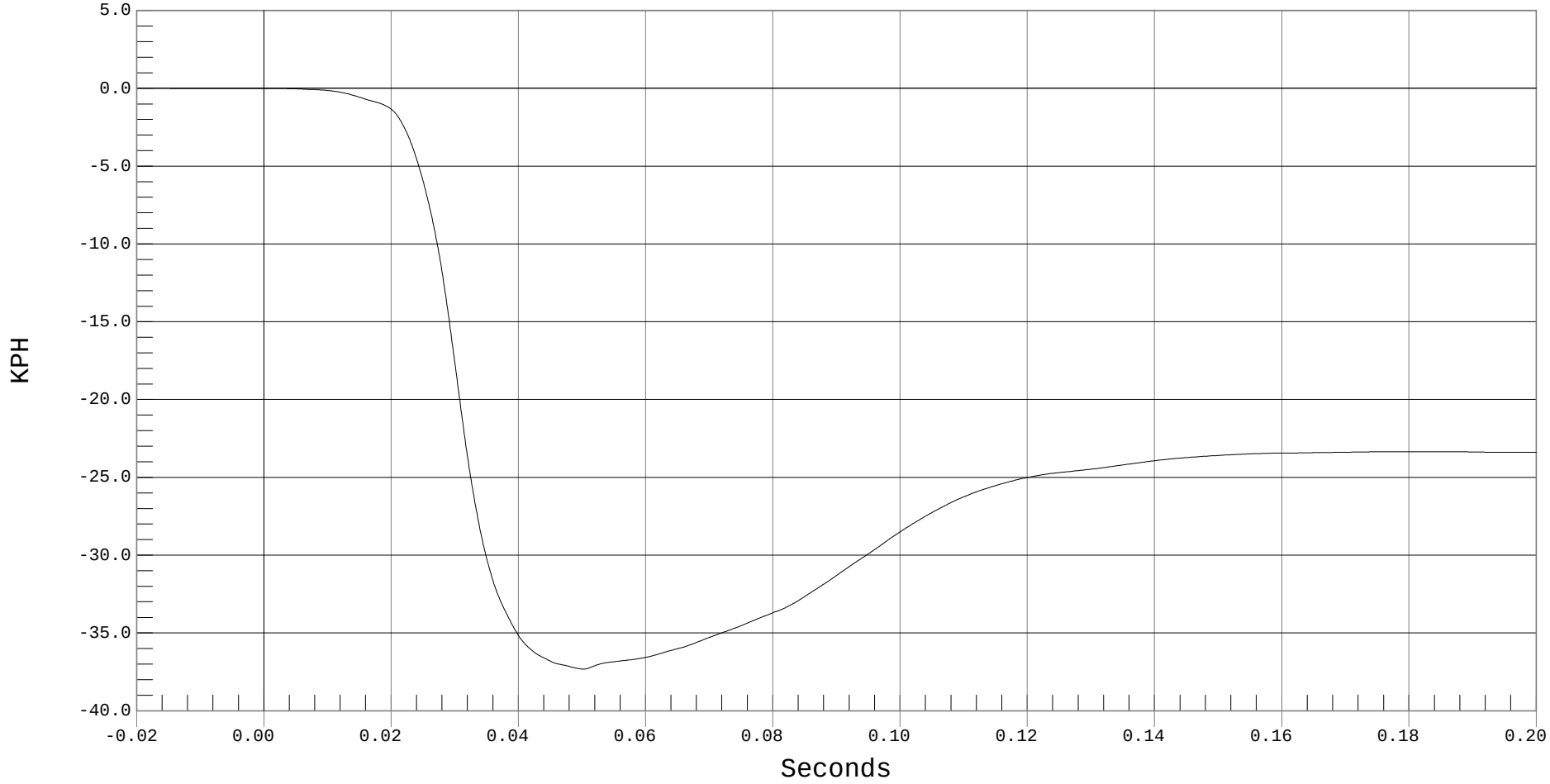
RIGHT FRONT PELVIS REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT FRONT PELVIS Y REDUNDANT VELOCITY, b01051AI.V44

Ymin = -37.32 KPH @ 0.0501 Seconds, Ymax = 0 KPH @ -0.0199 Seconds



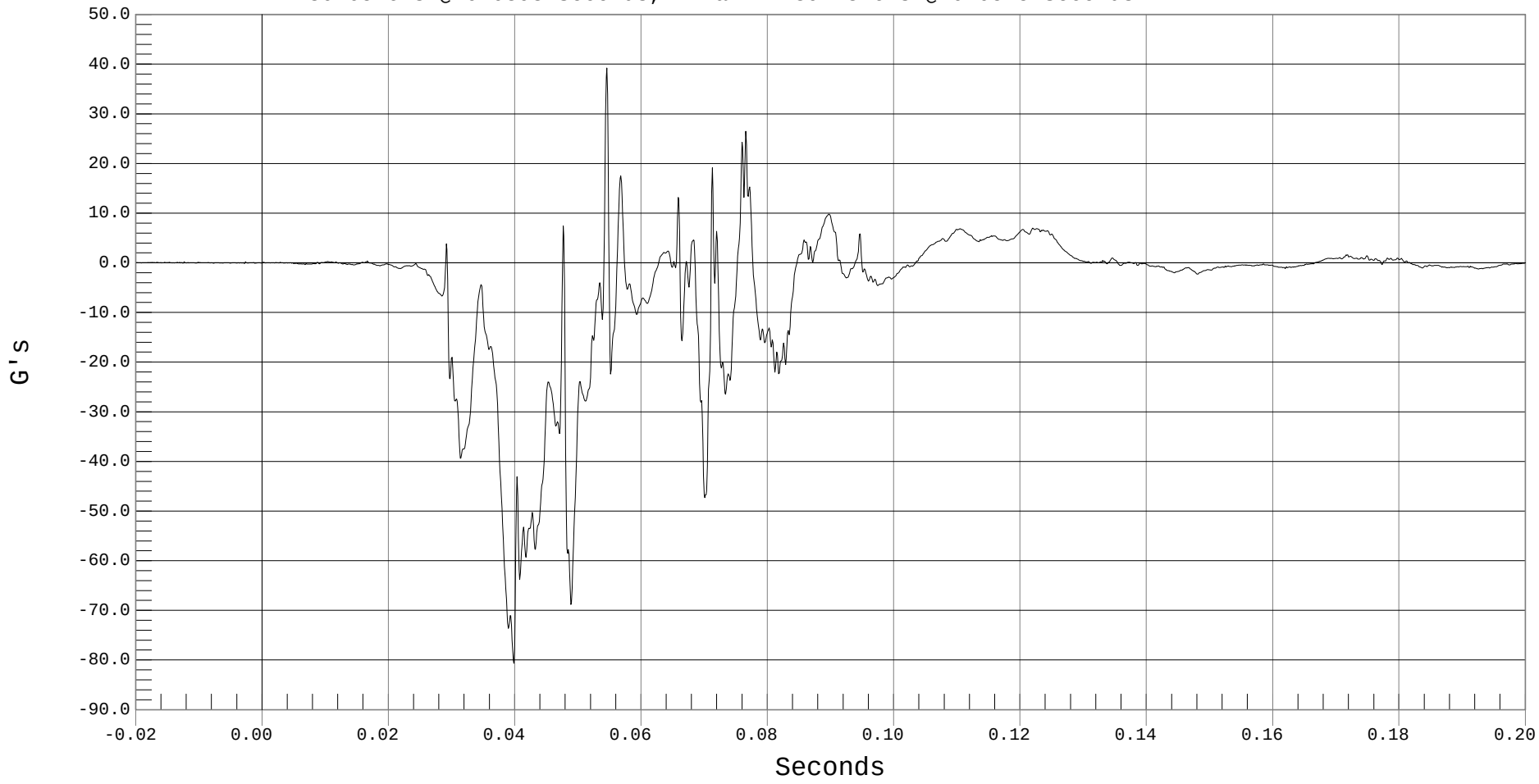
RIGHT REAR PASSENGER UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER UPPER RIB Yr, b01051AT.A45

Ymin = -80.65 G's @ 0.0398 Seconds, Ymax = 39.23 G's @ 0.0545 Seconds



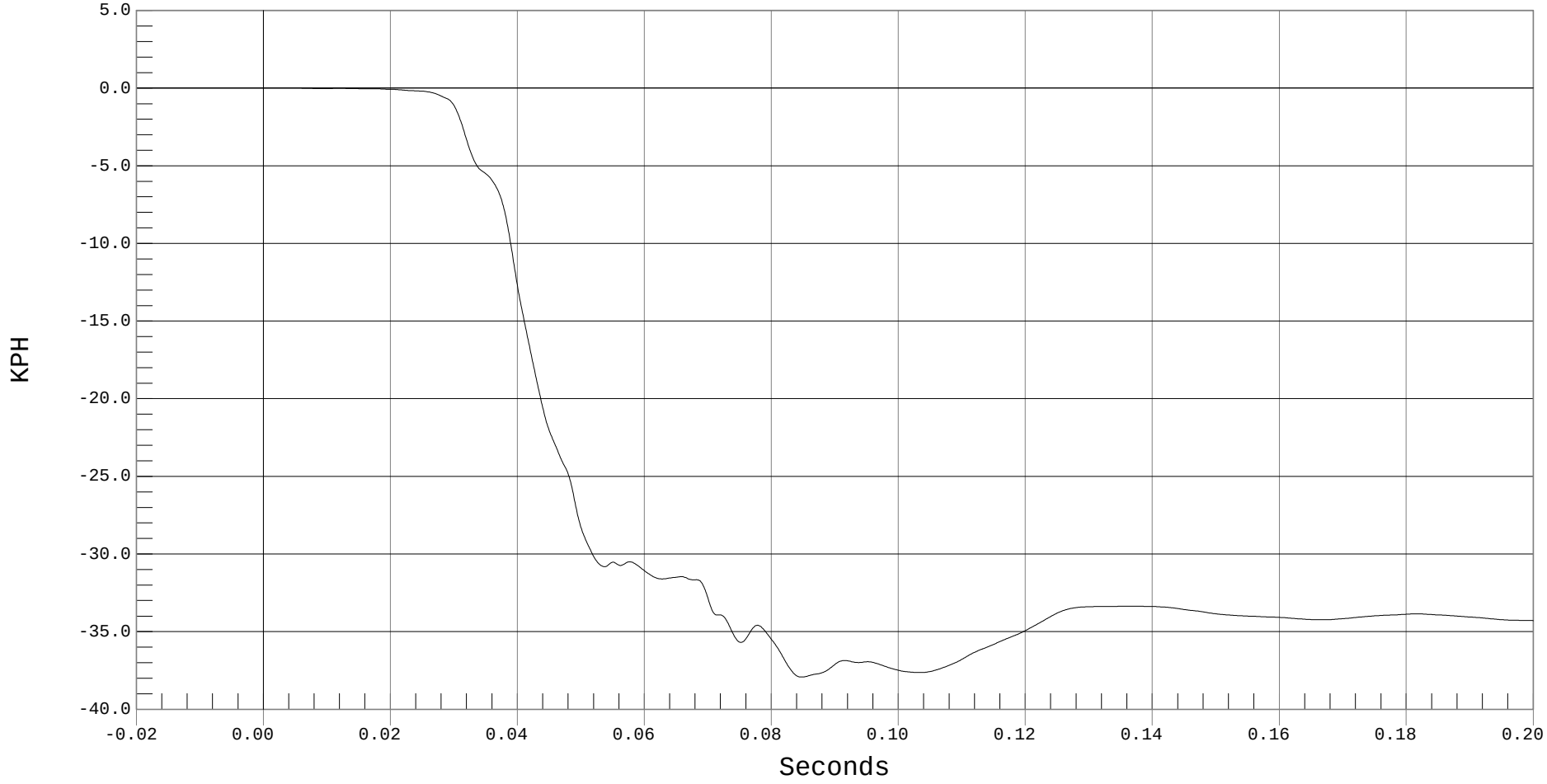
RIGHT REAR PASSENGER UPPER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER UPPER RIB Y REDUNDANT VELOCITY, b01051AI.V45

Ymin = -37.93 KPH @ 0.0847 Seconds, Ymax = .01 KPH @ -0.0084 Seconds



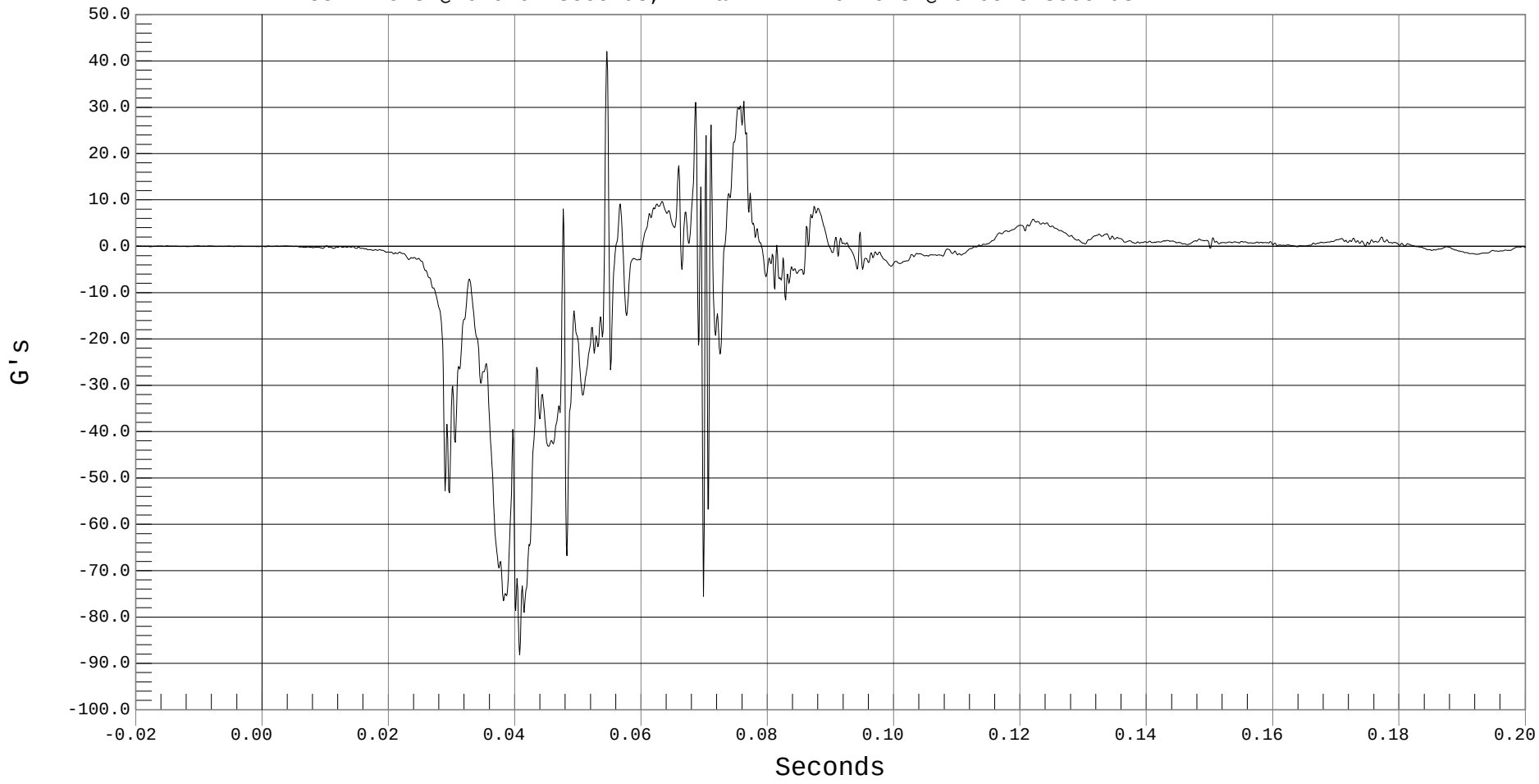
RIGHT REAR PASSENGER LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER LOWER RIB Yr, b01051AT.A46

Ymin = -88.17 G's @ 0.0407 Seconds, Ymax = 42.02 G's @ 0.0545 Seconds



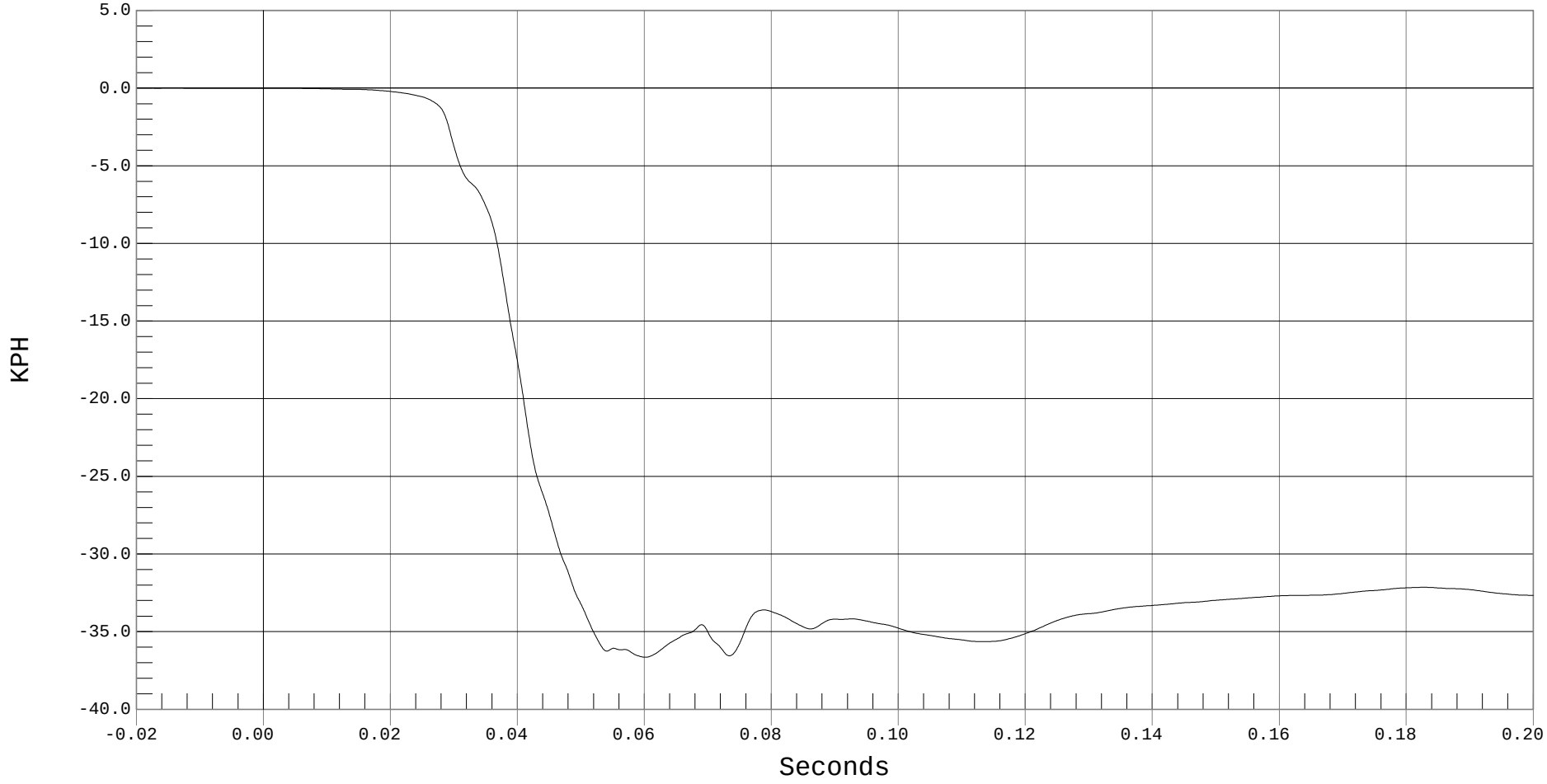
RIGHT REAR PASSENGER LOWER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER LOWER RIB Y REDUNDANT VELOCITY, b01051AI.V46

Ymin = -36.64 KPH @ 0.0601 Seconds, Ymax = 0 KPH @ -0.0191 Seconds



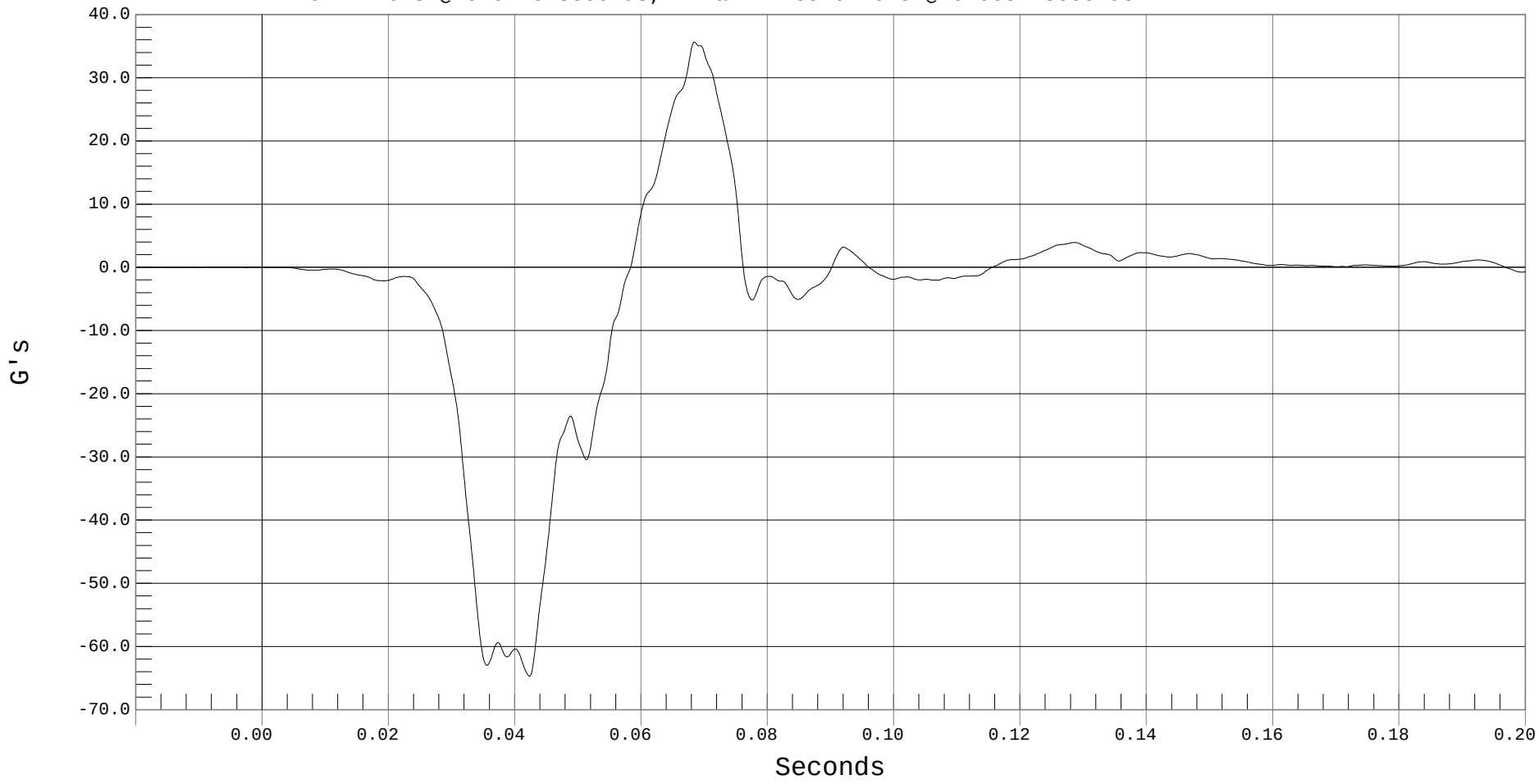
RIGHT REAR PASSENGER LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER LOWER SPINE Yr, b01051AF.A47

Ymin = -64.72 G's @ 0.0423 Seconds, Ymax = 35.64 G's @ 0.0684 Seconds



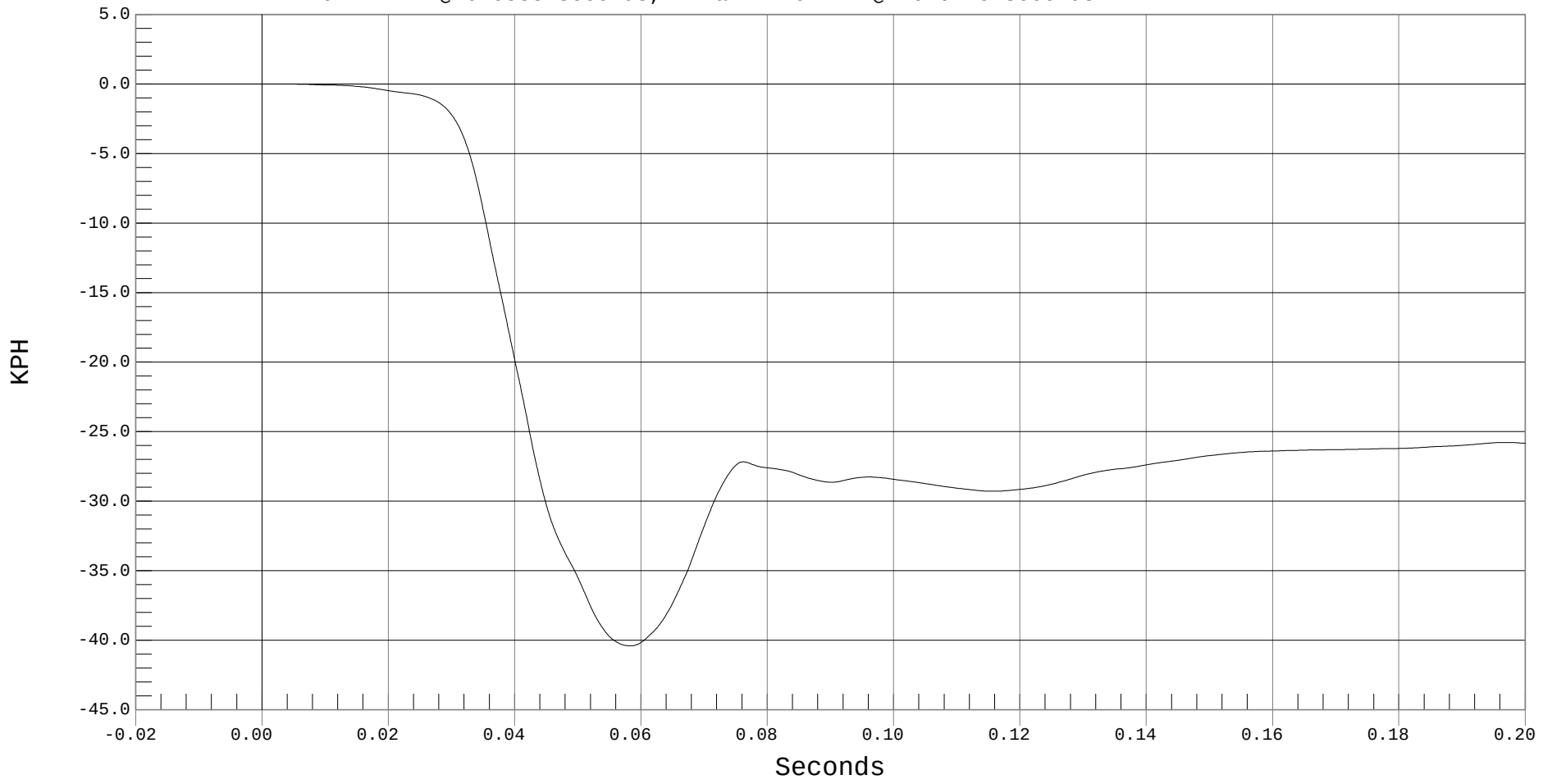
RIGHT REAR PASSENGER LOWER SPINE REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER LOWER SPINE Y REDUNDANT VELOCITY, b01051AI.V47

Ymin = -40.41 KPH @ 0.0583 Seconds, Ymax = 0 KPH @ -0.0178 Seconds



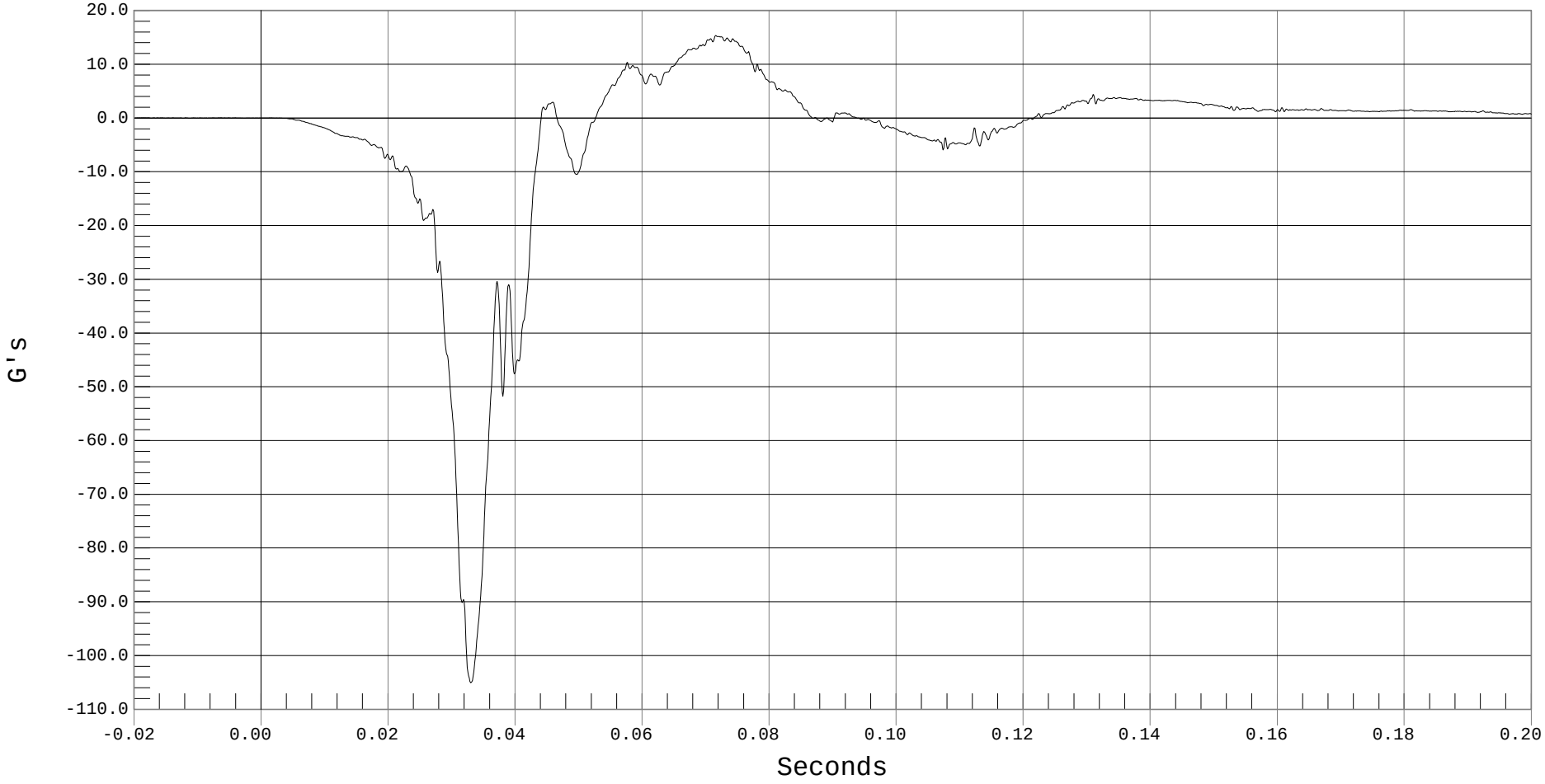
RIGHT REAR PASSENGER PELVIS REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 1000

1 RIGHT REAR PASSENGER PELVIS Yr, b01051AT.A48

Ymin = -105.04 G's @ 0.0329 Seconds, Ymax = 15.36 G's @ 0.0715 Seconds



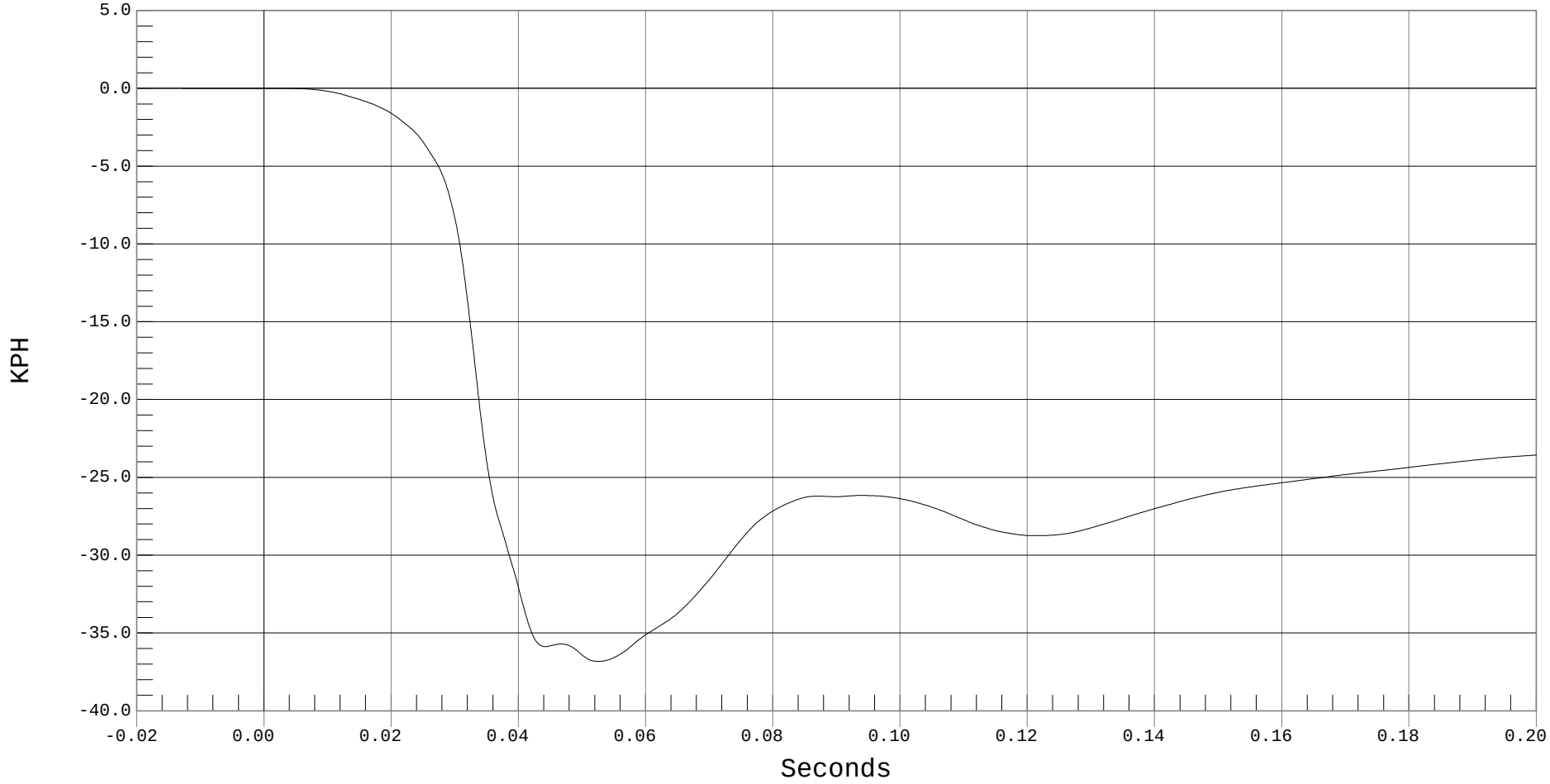
RIGHT REAR PASSENGER PELVIS REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Filter Class: 180

1 RIGHT REAR PASSENGER PELVIS Y REDUNDANT VELOCITY, b01051AI.V48

Ymin = -36.83 KPH @ 0.0525 Seconds, Ymax = 0 KPH @ -0.0199 Seconds



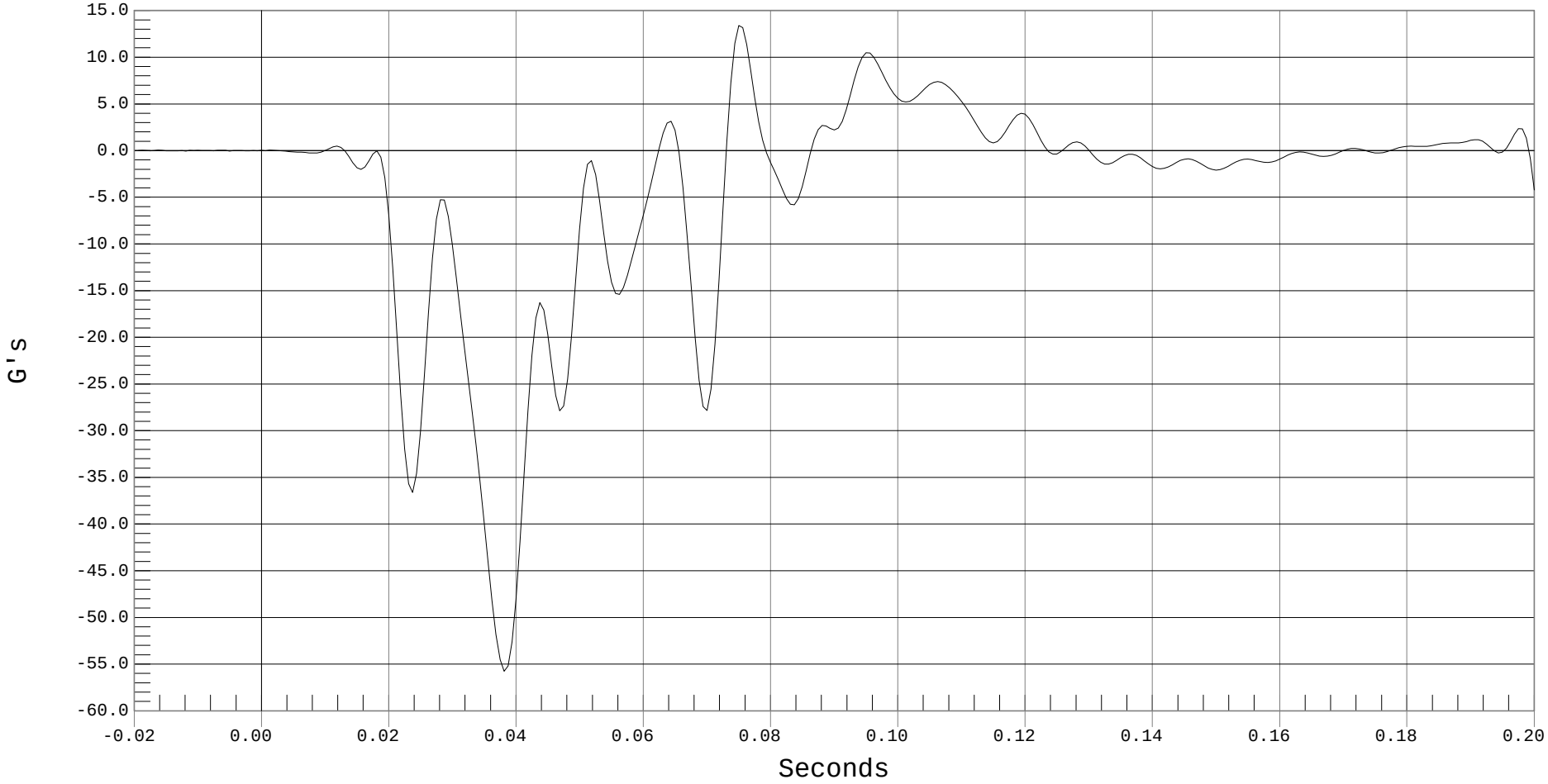
RIGHT FRONT UPPER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER UPPER RIB Y, b01051FI.R04

Ymin = -55.76 G's @ 0.0380 Seconds, Ymax = 13.39 G's @ 0.0749 Seconds



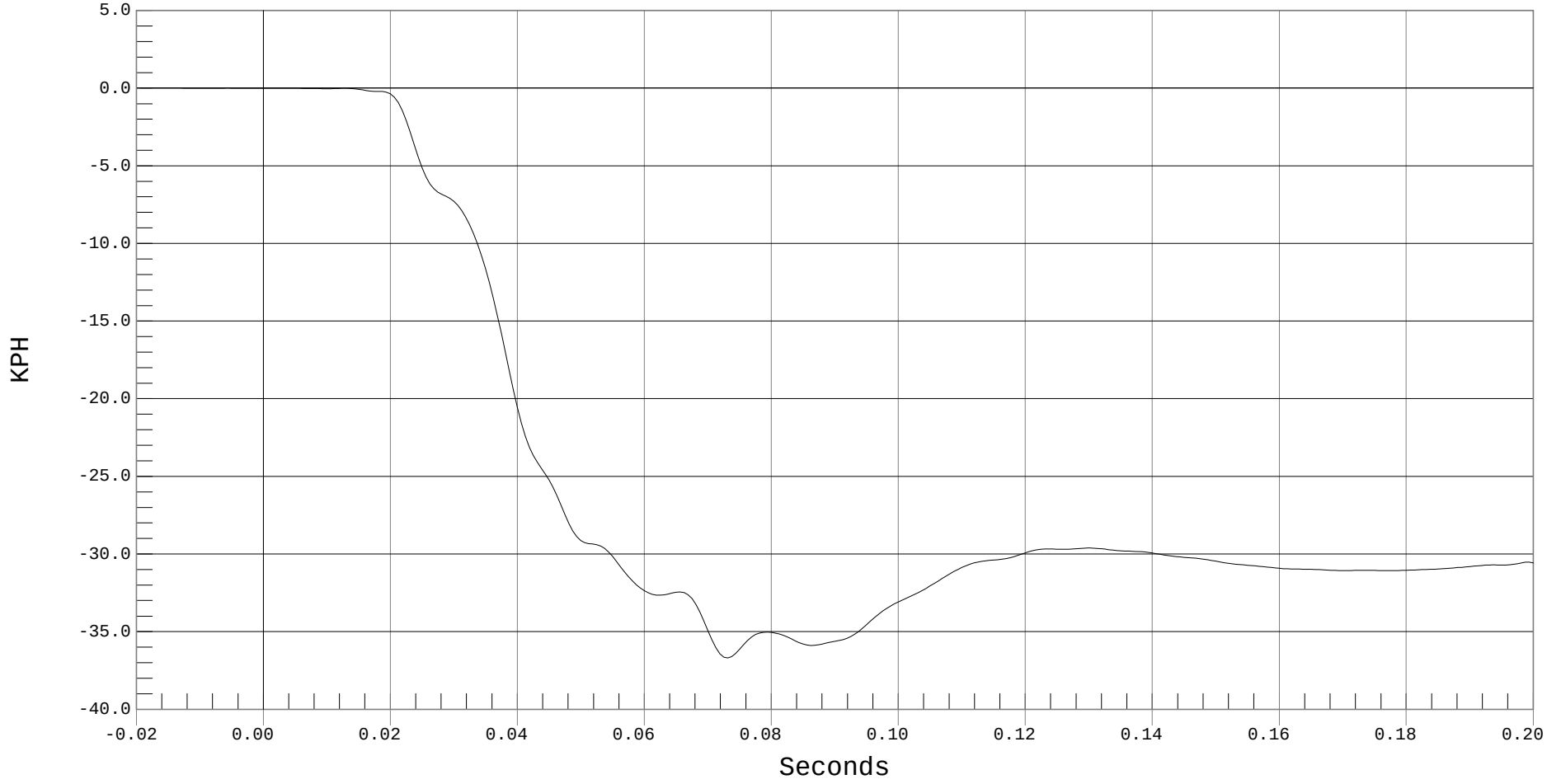
RIGHT FRONT UPPER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT UPPER RIB Y VELOCITY, b01051FI.V04

Ymin = -36.7 KPH @ 0.0730 Seconds, Ymax = 0 KPH @ -0.0151 Seconds



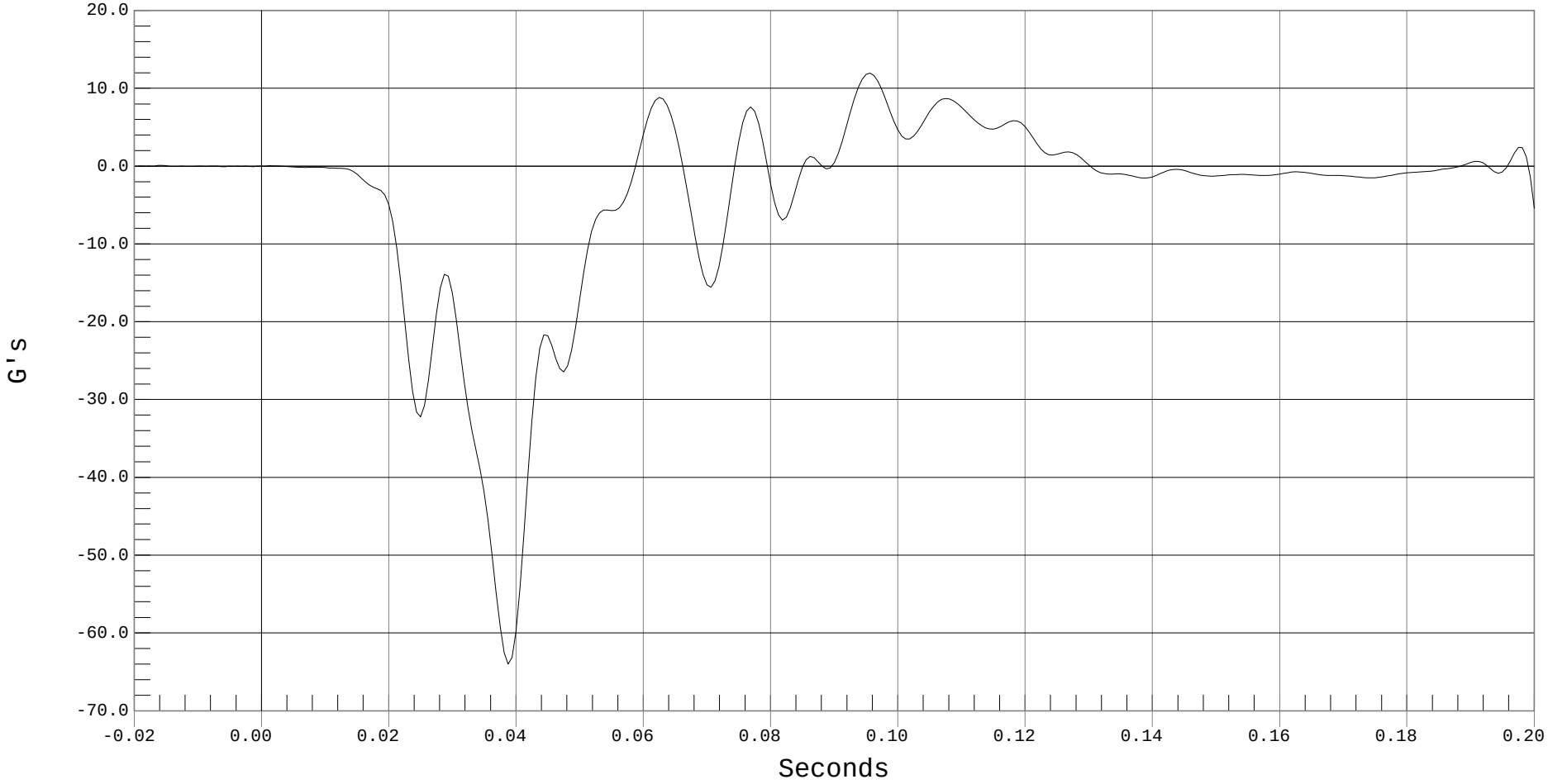
RIGHT FRONT LOWER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER LOWER RIB Y, b01051FI.R05

Ymin = -64.01 G's @ 0.0387 Seconds, Ymax = 11.95 G's @ 0.0955 Seconds



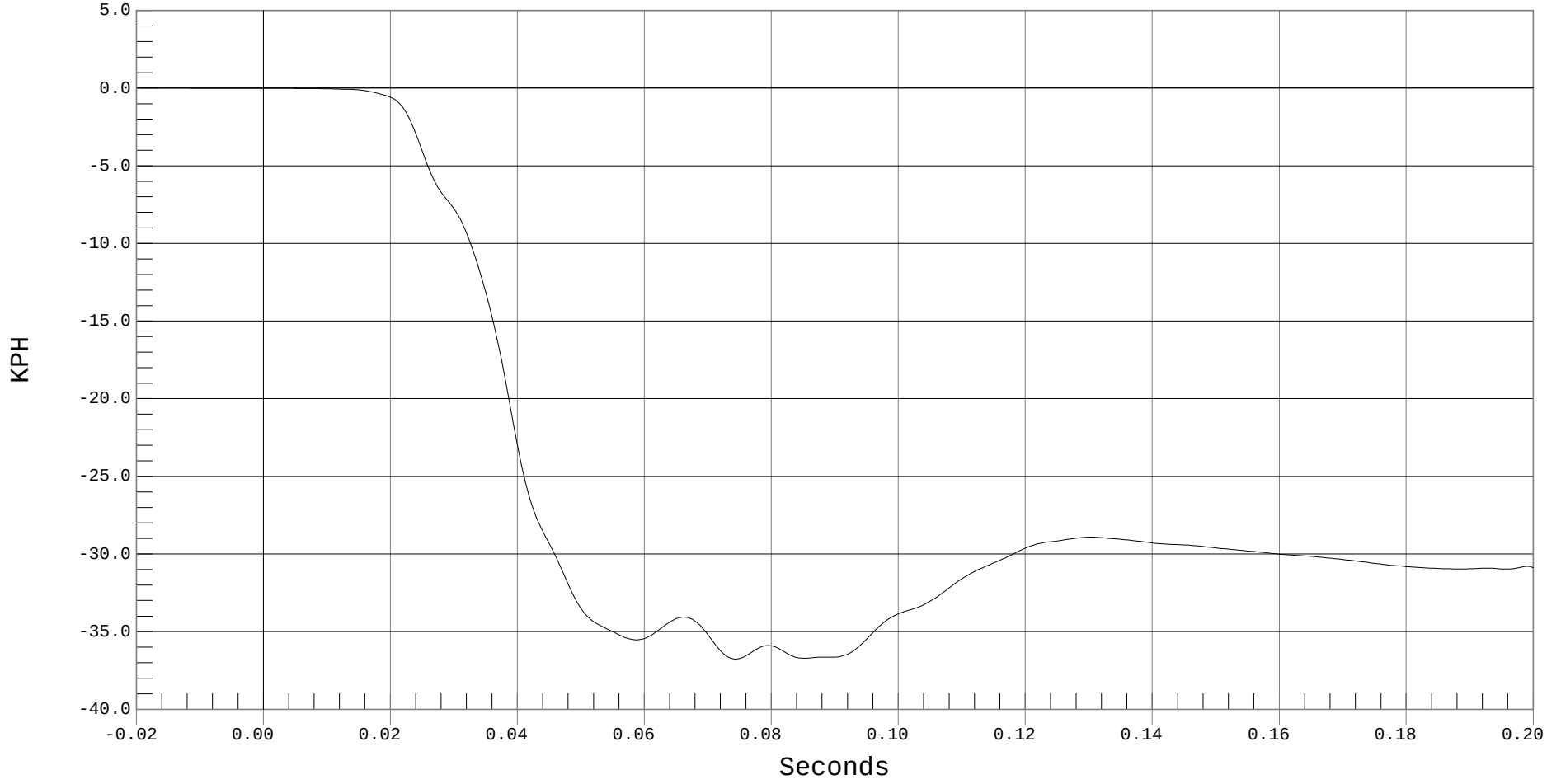
RIGHT FRONT LOWER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT LOWER RIB Y VELOCITY, b01051FI.V05

Ymin = -36.77 KPH @ 0.0743 Seconds, Ymax = 0 KPH @ -0.0145 Seconds



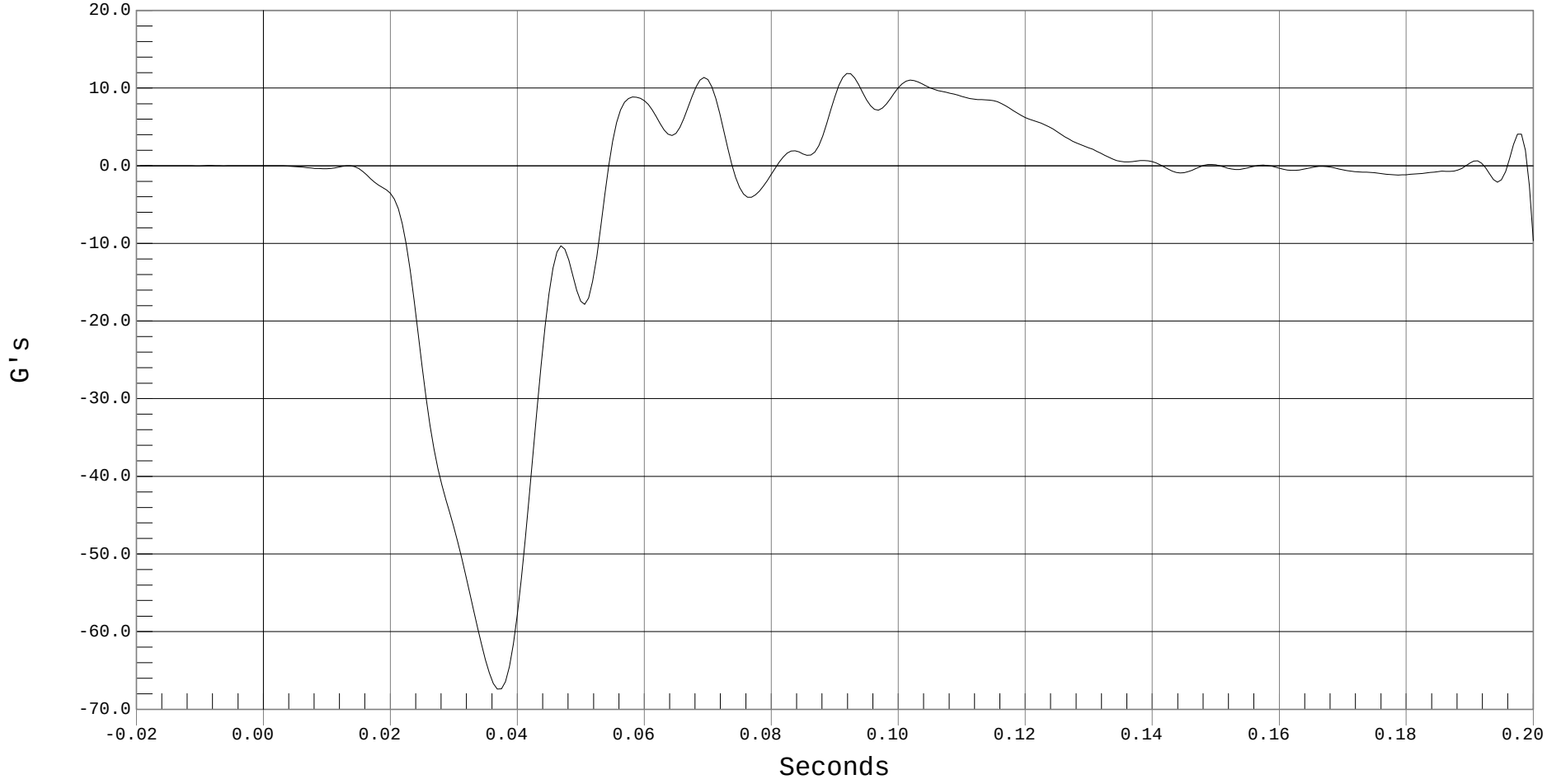
RIGHT FRONT LOWER SPINE Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER LOWER SPINE Y, b01051FI.R06

Ymin = -67.4 G's @ 0.0368 Seconds, Ymax = 11.9 G's @ 0.0918 Seconds



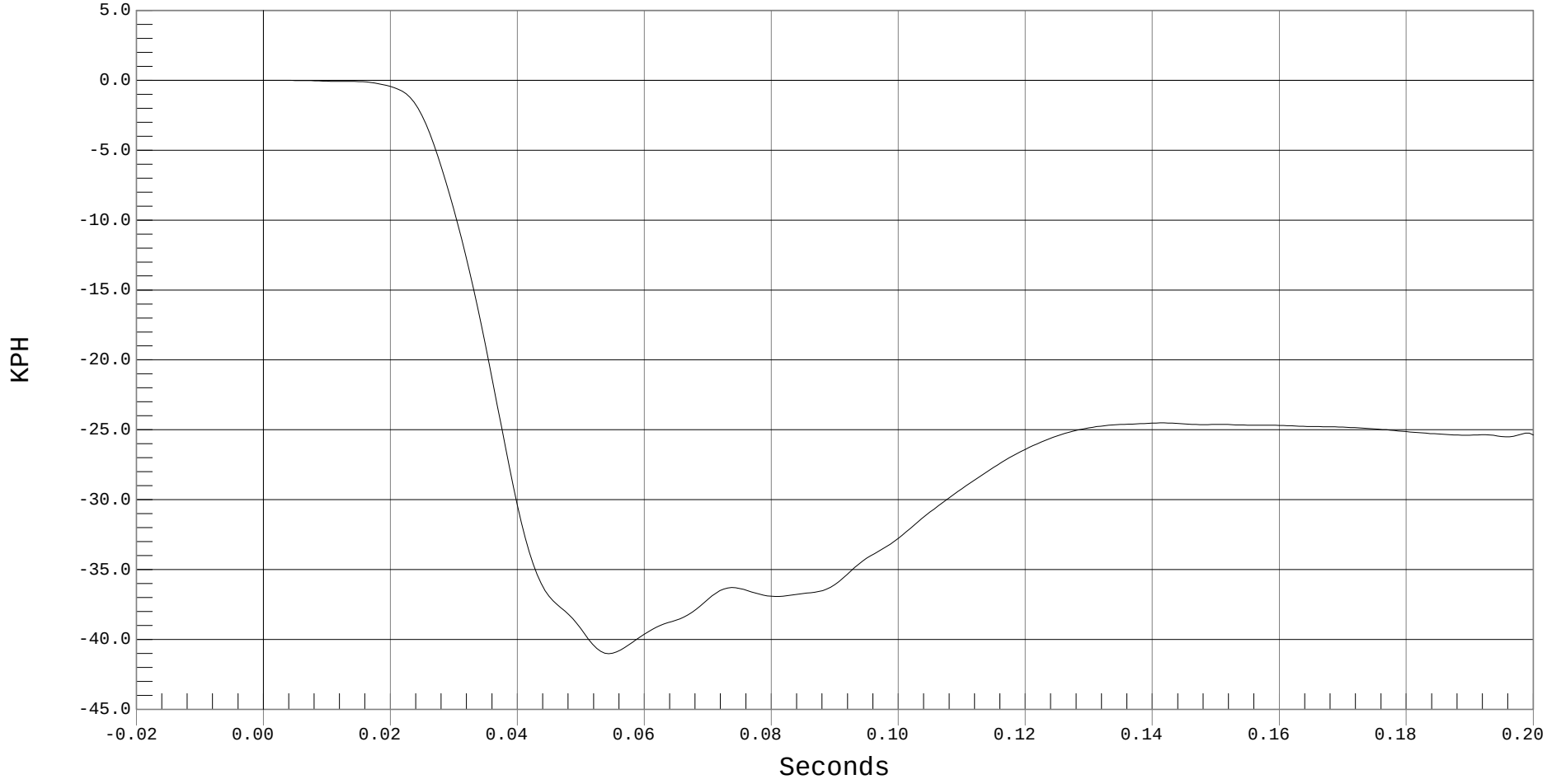
RIGHT FRONT LOWER SPINE Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT LOWER SPINE Y VELOCITY, b01051FI.V06

Ymin = -41.03 KPH @ 0.0543 Seconds, Ymax = 0 KPH @ -0.0182 Seconds



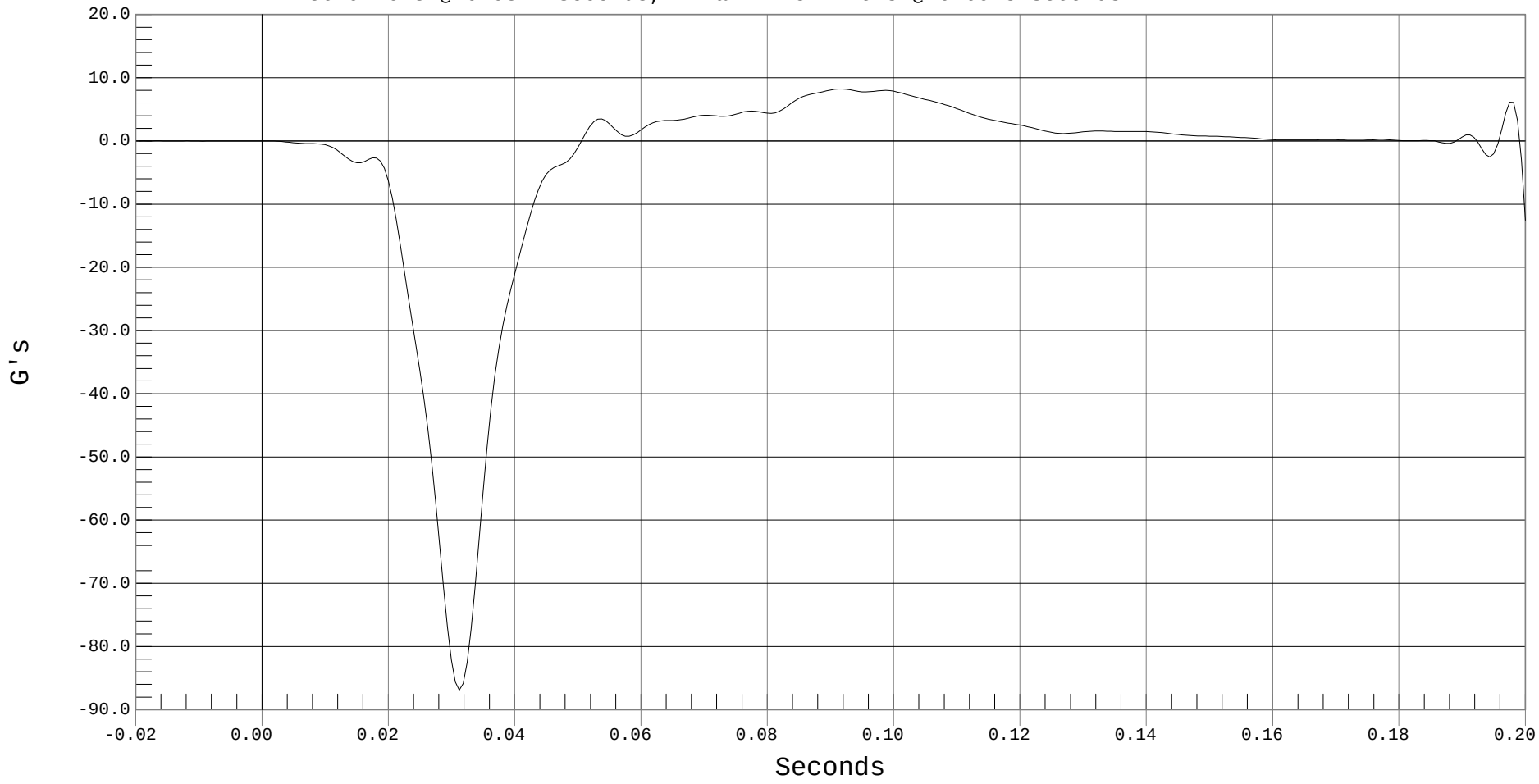
RIGHT FRONT PELVIS Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER PELVIS Y, b01051FI.R07

Ymin = -86.92 G's @ 0.0312 Seconds, Ymax = 8.24 G's @ 0.0918 Seconds



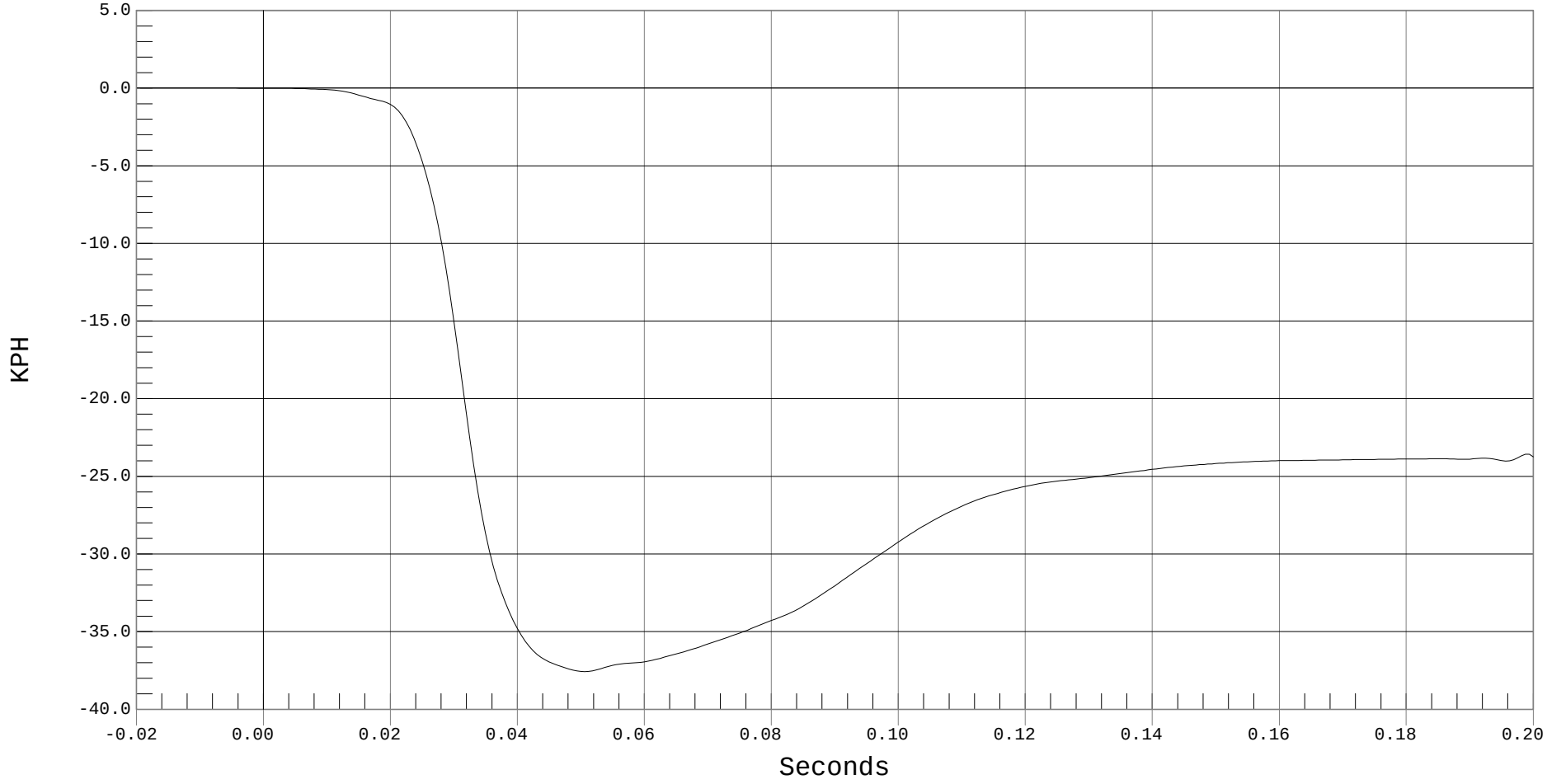
RIGHT FRONT PELVIS Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PELVIS Y VELOCITY, b01051FI.V07

Ymin = -37.57 KPH @ 0.0505 Seconds, Ymax = 0 KPH @ -0.0114 Seconds



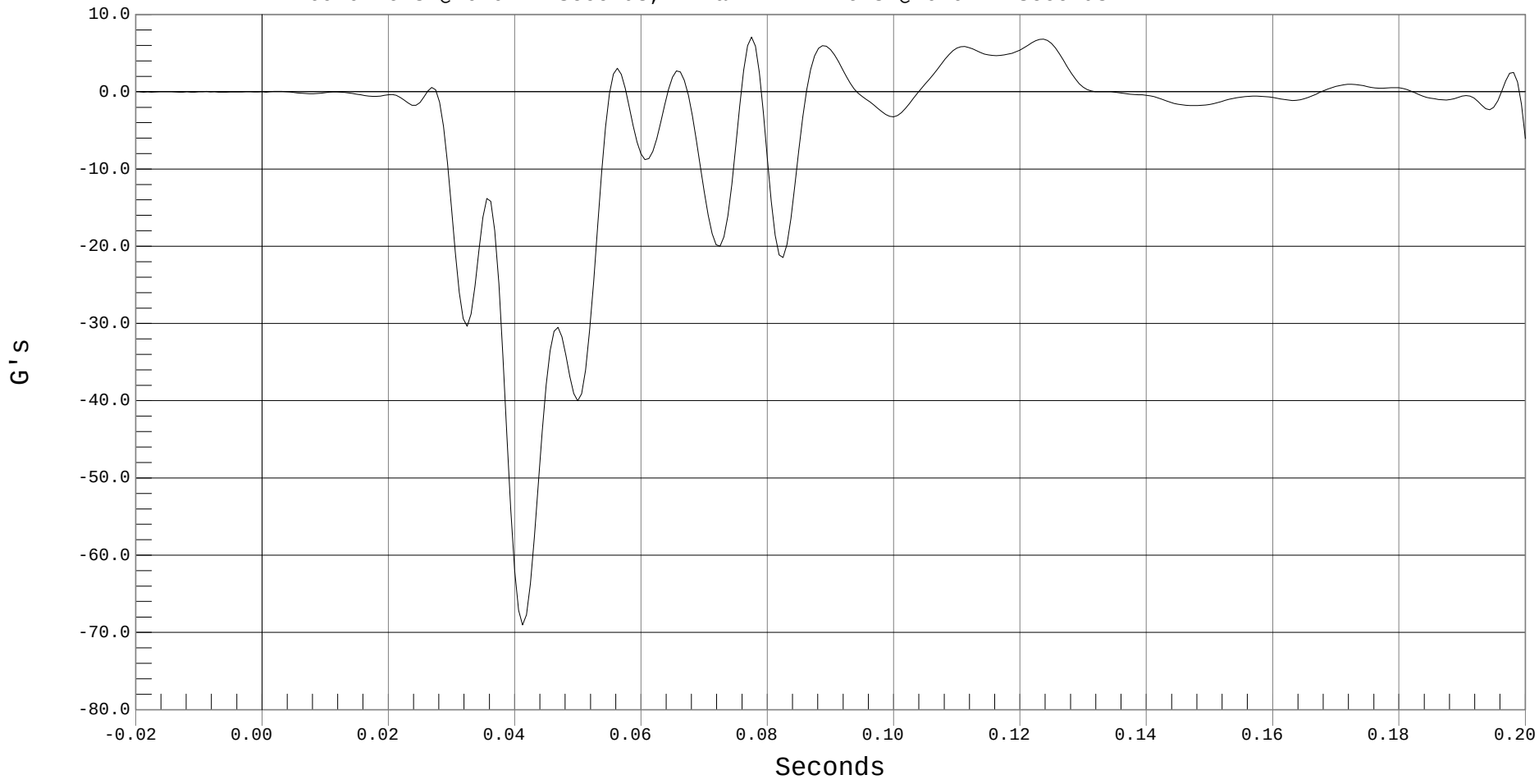
RIGHT REAR PASSENGER UPPER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER UPPER RIB Y, b01051FI.R11

Ymin = -69.04 G's @ 0.0412 Seconds, Ymax = 7.1 G's @ 0.0774 Seconds



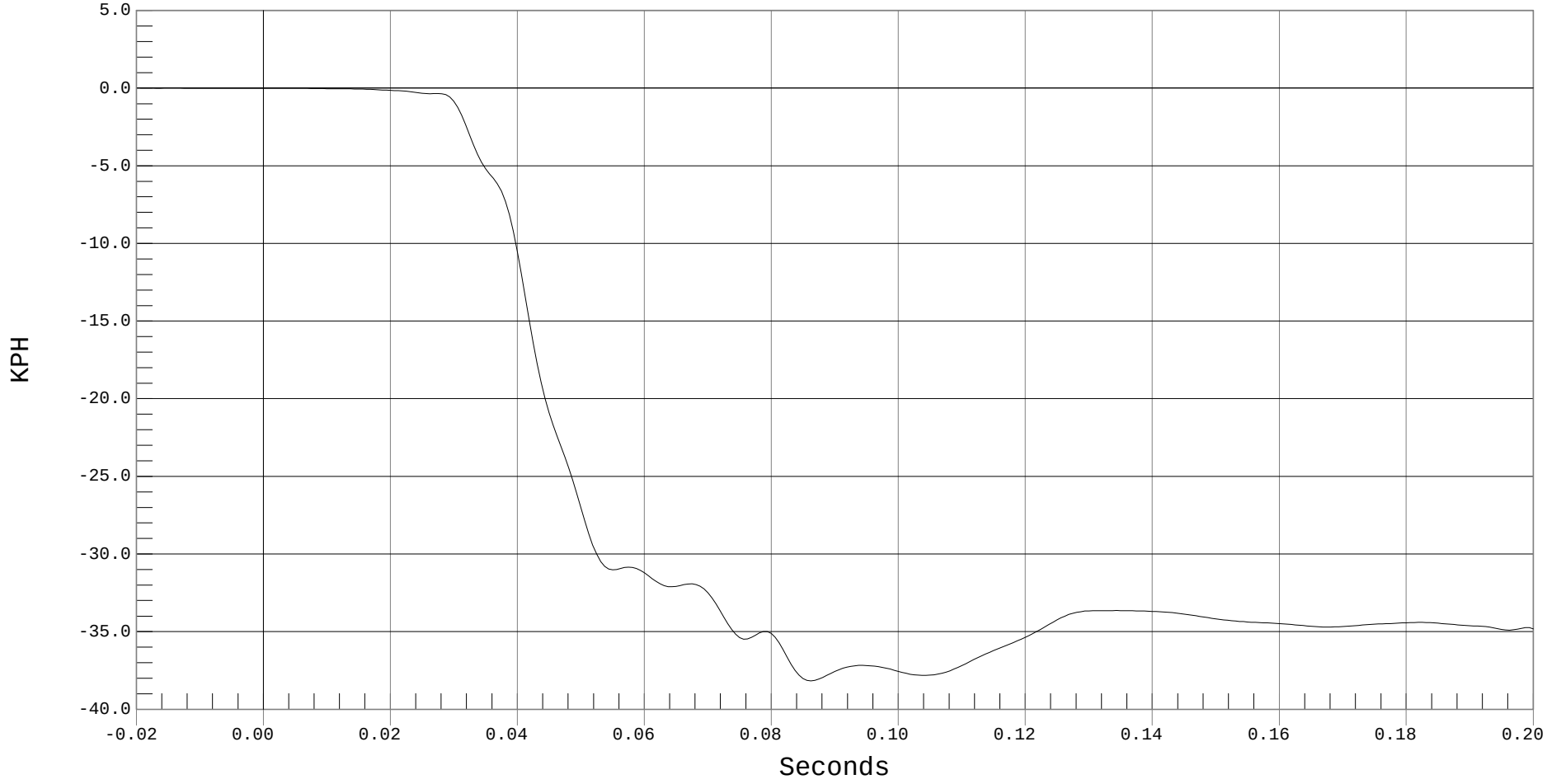
RIGHT REAR PASSENGER UPPER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT RIGHT REAR PASSENGER UPPER RIB Y VELOCITY, b01051FI.V11

Ymin = -38.18 KPH @ 0.0862 Seconds, Ymax = 0 KPH @ -0.0145 Seconds



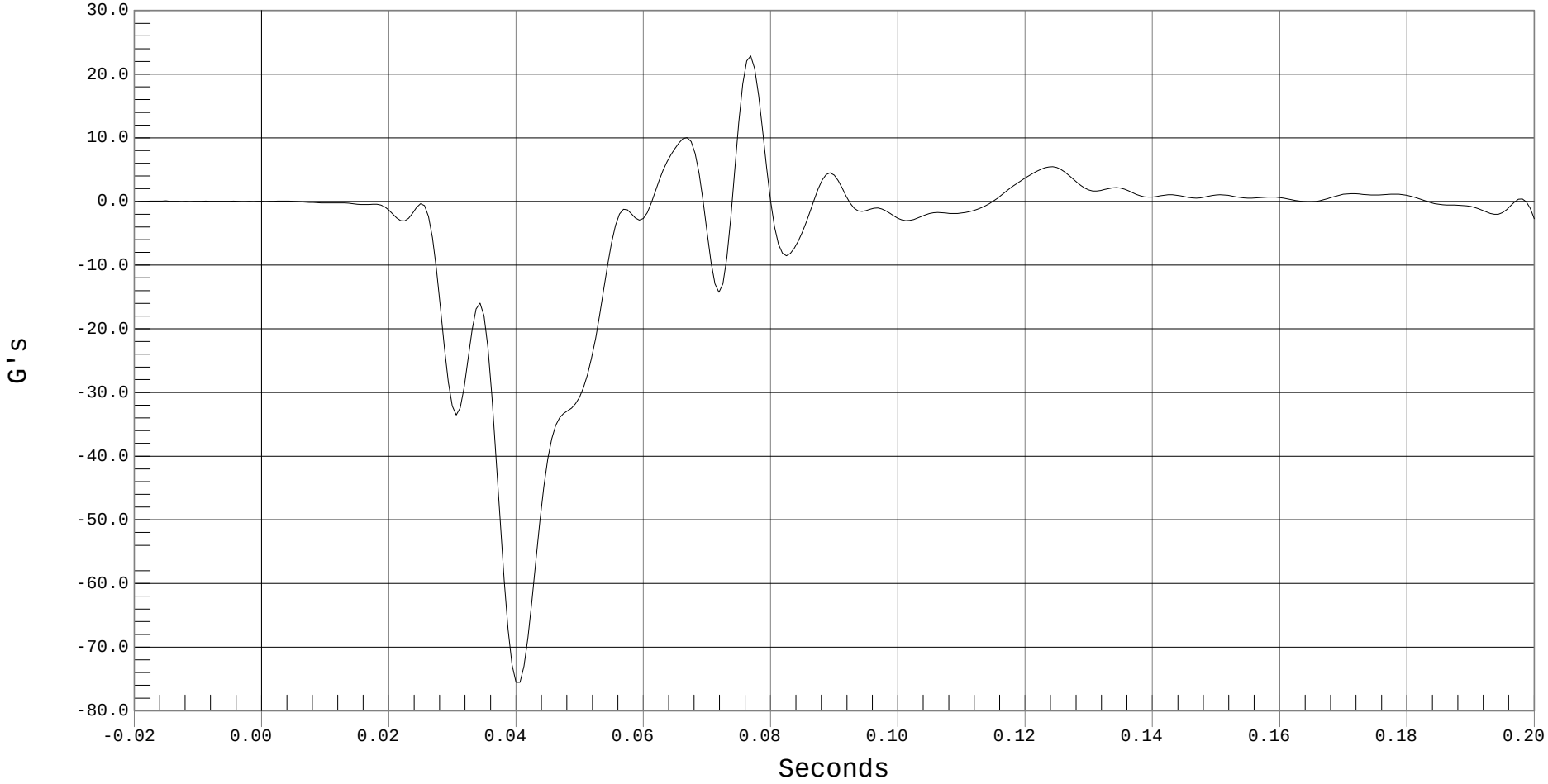
RIGHT REAR PASSENGER LOWER RIB Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER RIB Y, b01051FI.R12

Ymin = -75.54 G's @ 0.0399 Seconds, Ymax = 22.88 G's @ 0.0768 Seconds



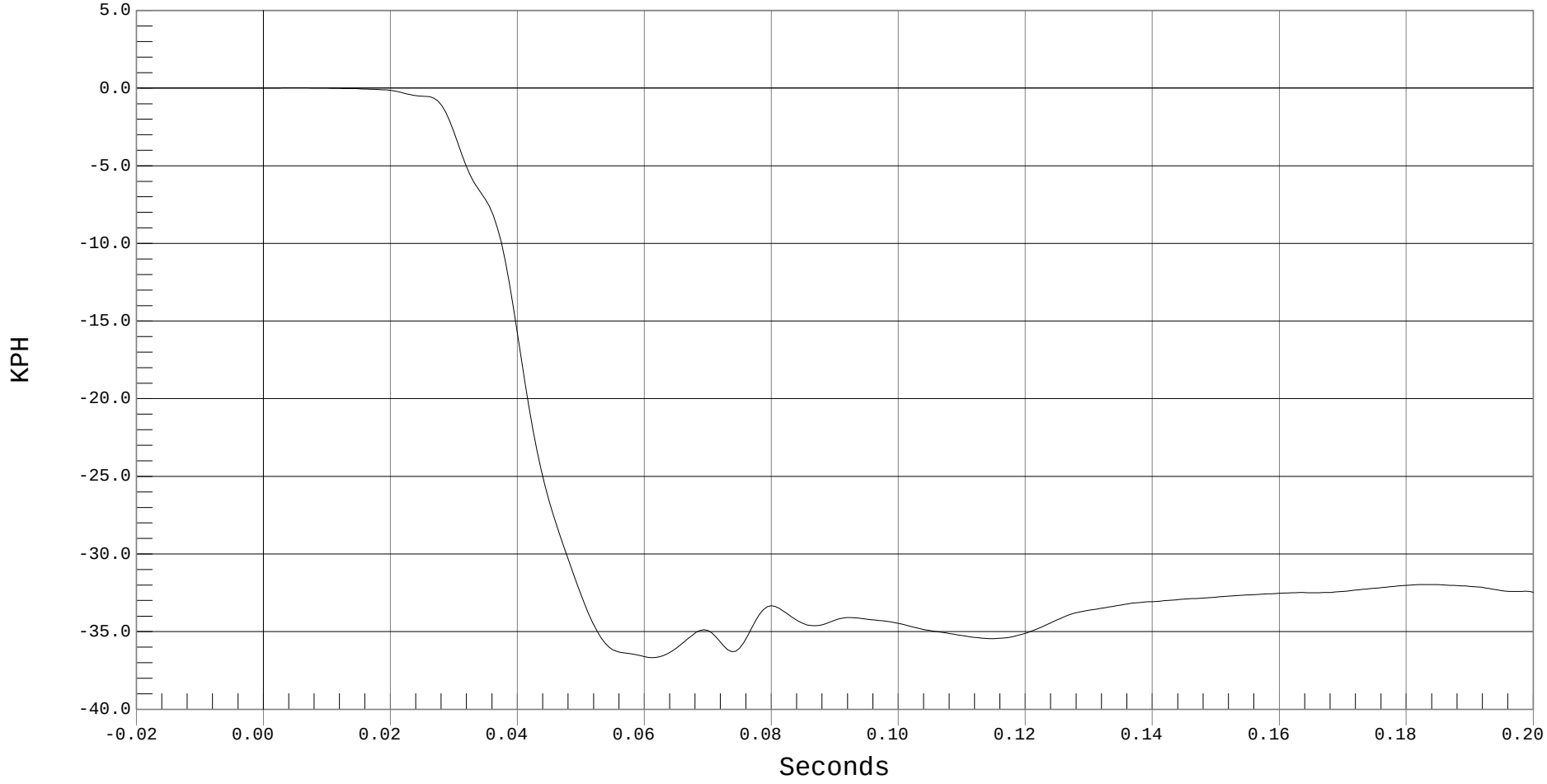
RIGHT REAR PASSENGER LOWER RIB Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER RIB Y VELOCITY, b01051FI.V12

Ymin = -36.68 KPH @ 0.0612 Seconds, Ymax = .02 KPH @ 0.0055 Seconds



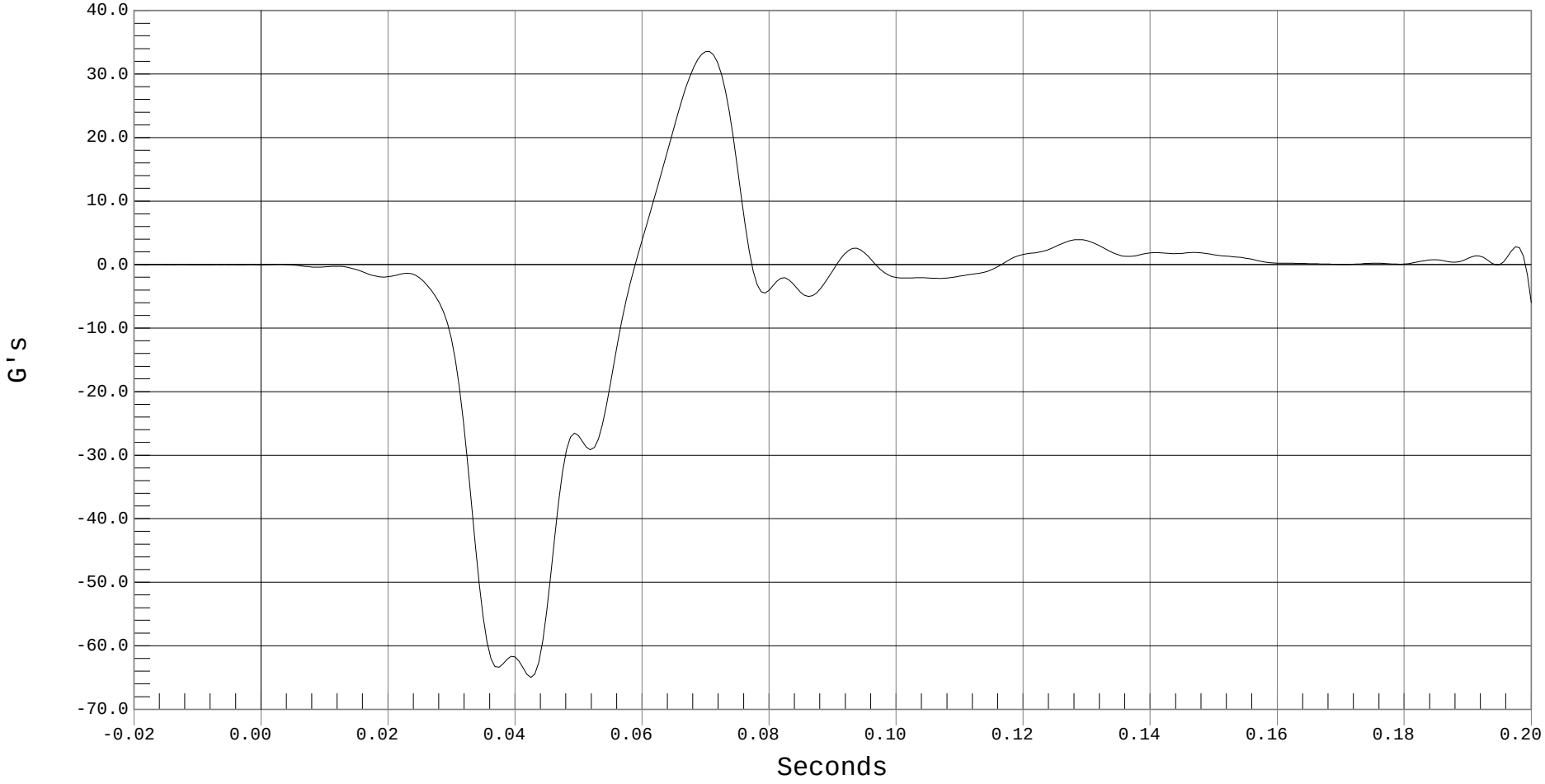
RIGHT REAR PASSENGER LOWER SPINE Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER SPINE Y, b01051FI.R13

Ymin = -64.97 G's @ 0.0424 Seconds, Ymax = 33.53 G's @ 0.0699 Seconds



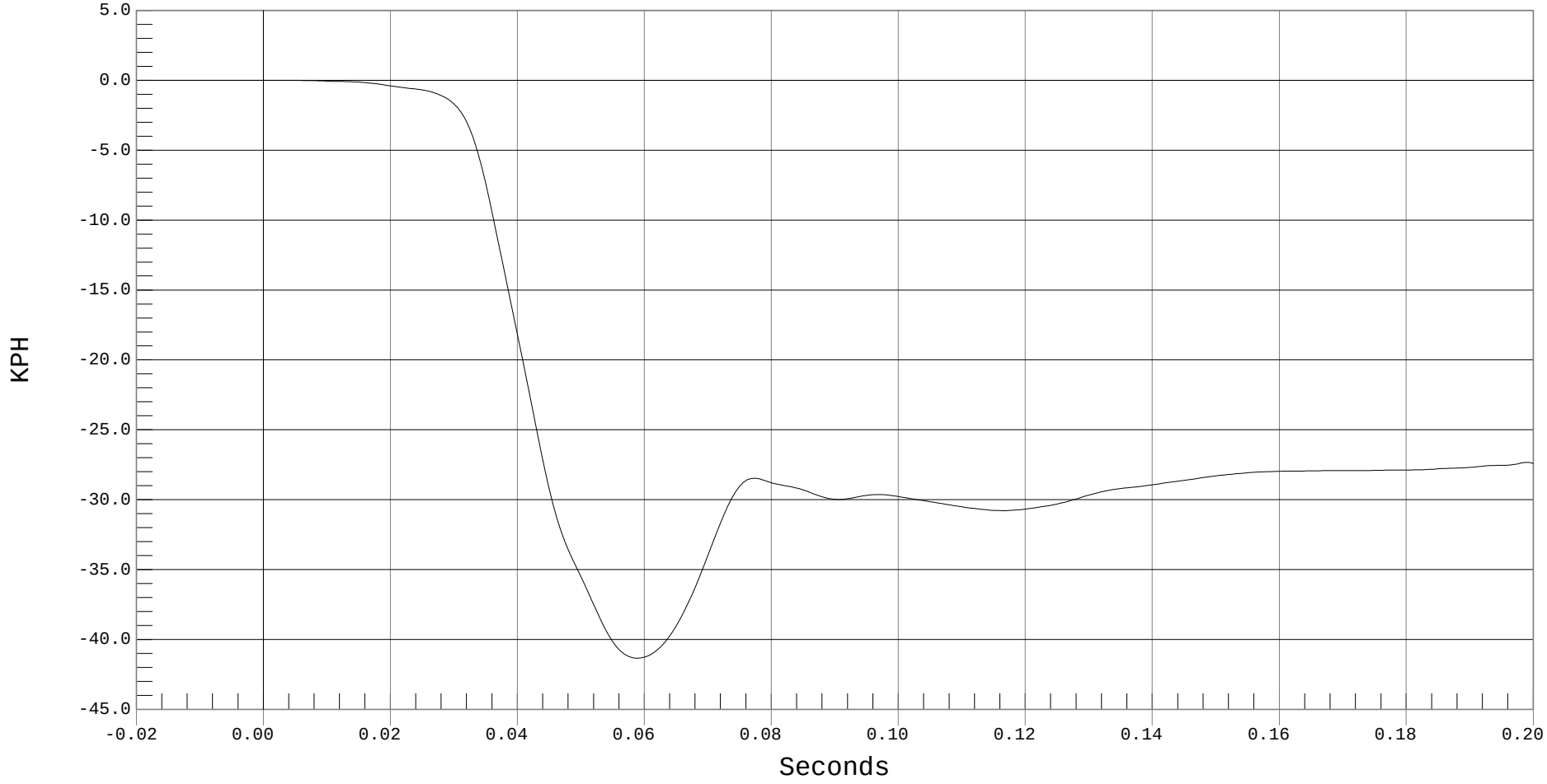
RIGHT REAR PASSENGER LOWER SPINE Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER SPINE Y VELOCITY, b01051FI.V13

Ymin = -41.35 KPH @ 0.0587 Seconds, Ymax = 0 KPH @ -0.0120 Seconds



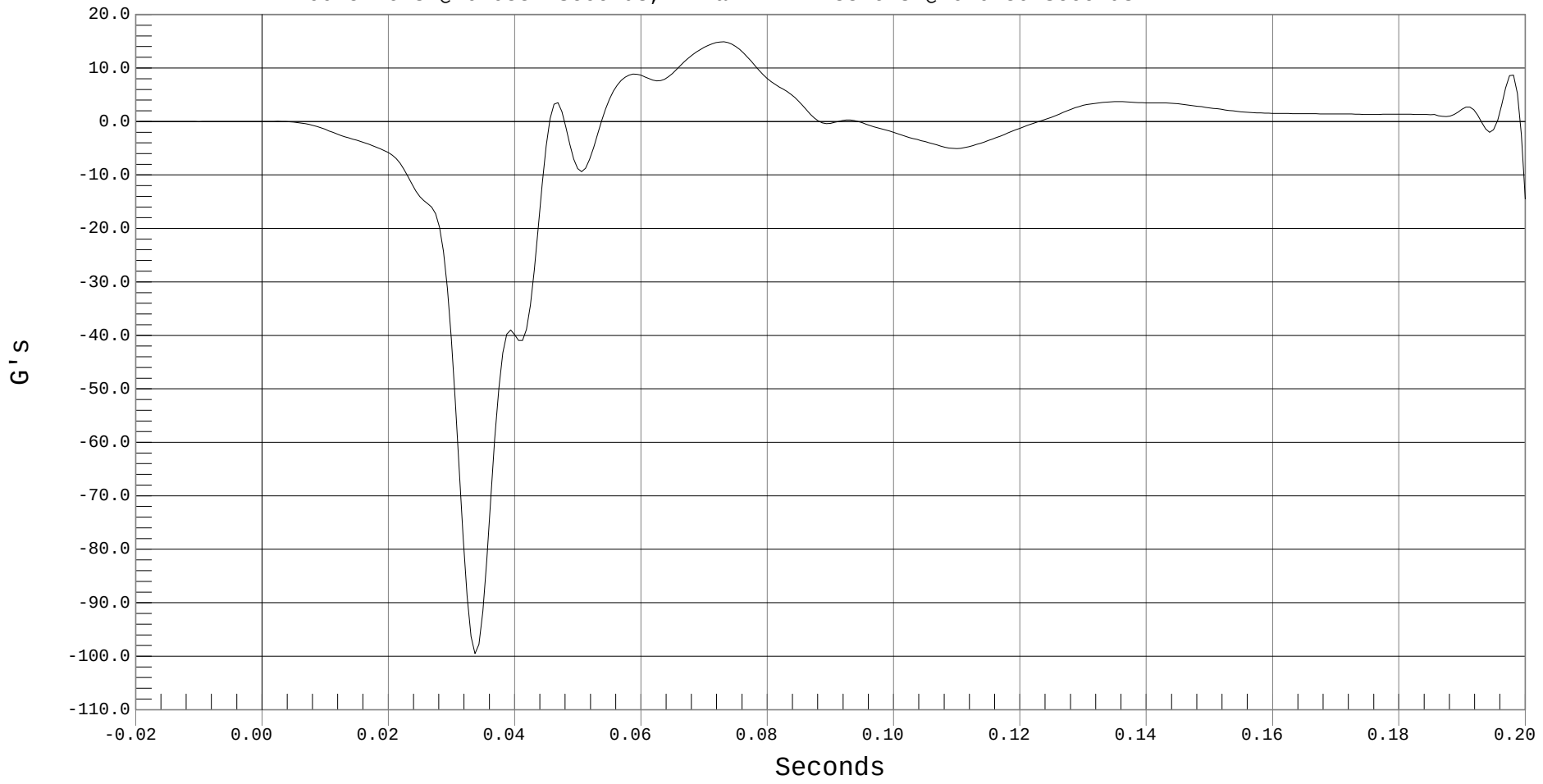
RIGHT REAR PASSENGER PELVIS Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER PELVIS Y, b01051FI.R14

Ymin = -99.51 G's @ 0.0337 Seconds, Ymax = 14.88 G's @ 0.0730 Seconds



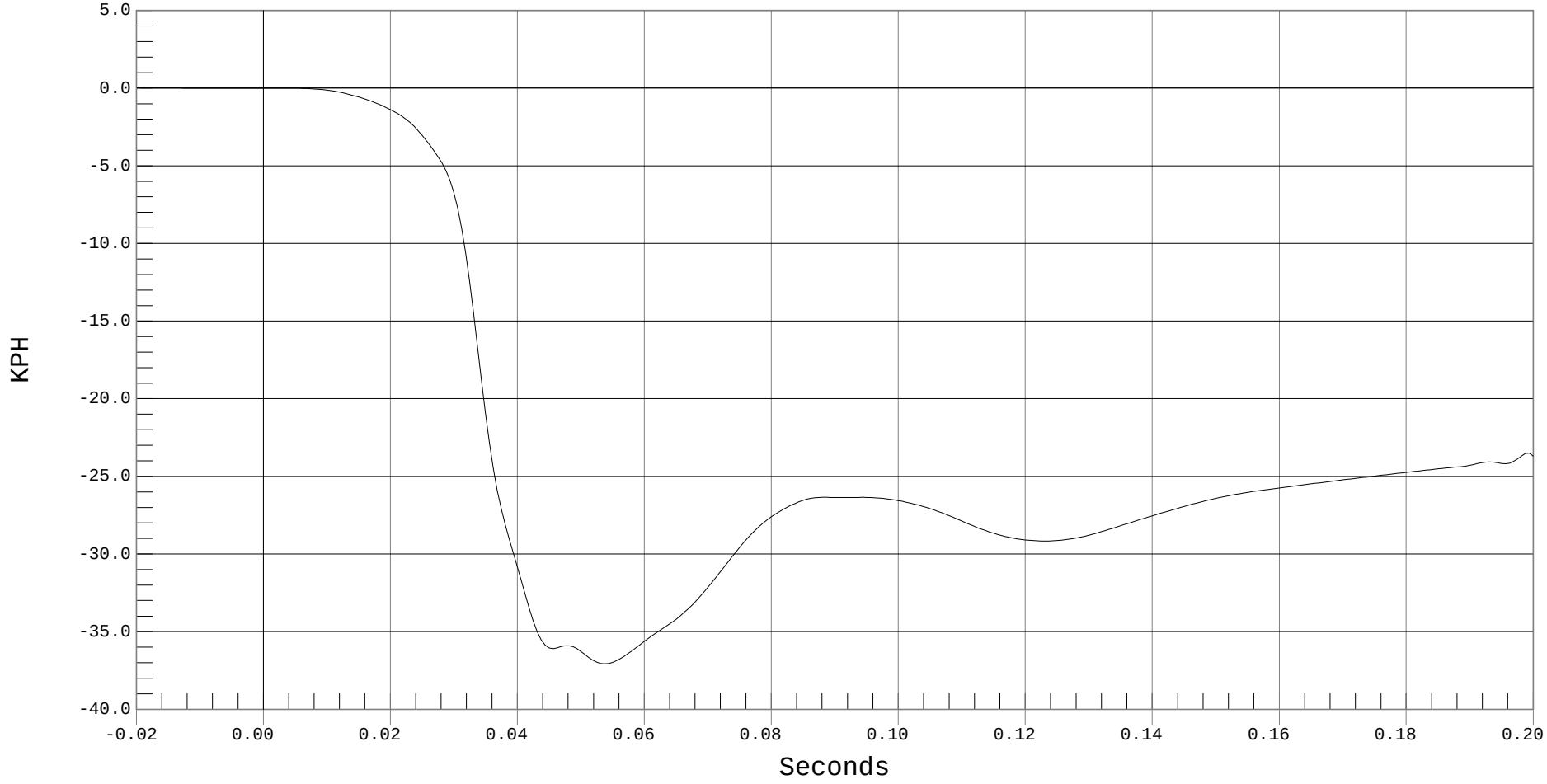
RIGHT REAR PASSENGER PELVIS Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER PELVIS Y VELOCITY, b01051FI.V14

Ymin = -37.08 KPH @ 0.0537 Seconds, Ymax = 0 KPH @ -0.0189 Seconds



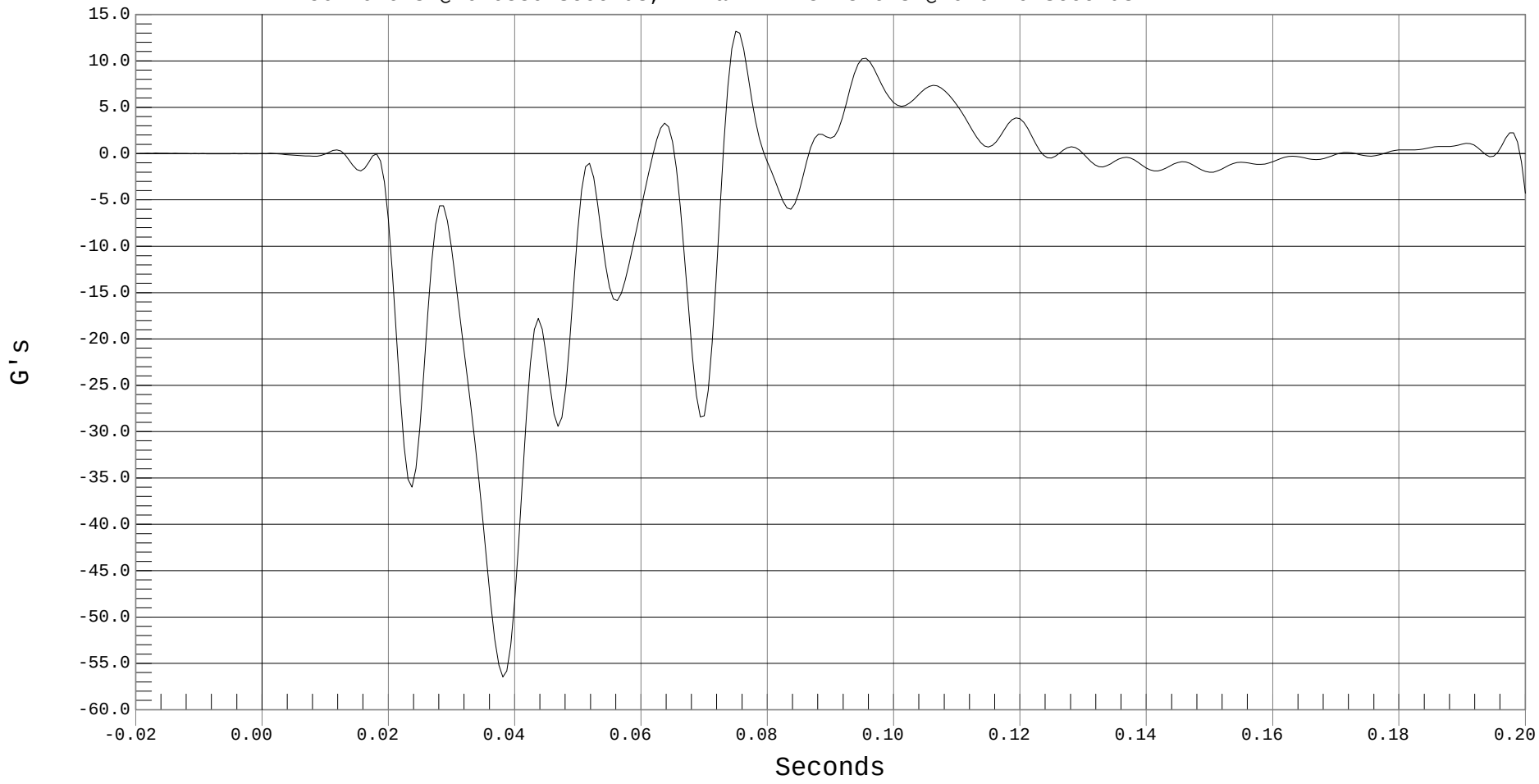
RIGHT FRONT UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER UPPER RIB Yr, b01051FI.R41

Ymin = -56.46 G's @ 0.0380 Seconds, Ymax = 13.18 G's @ 0.0749 Seconds



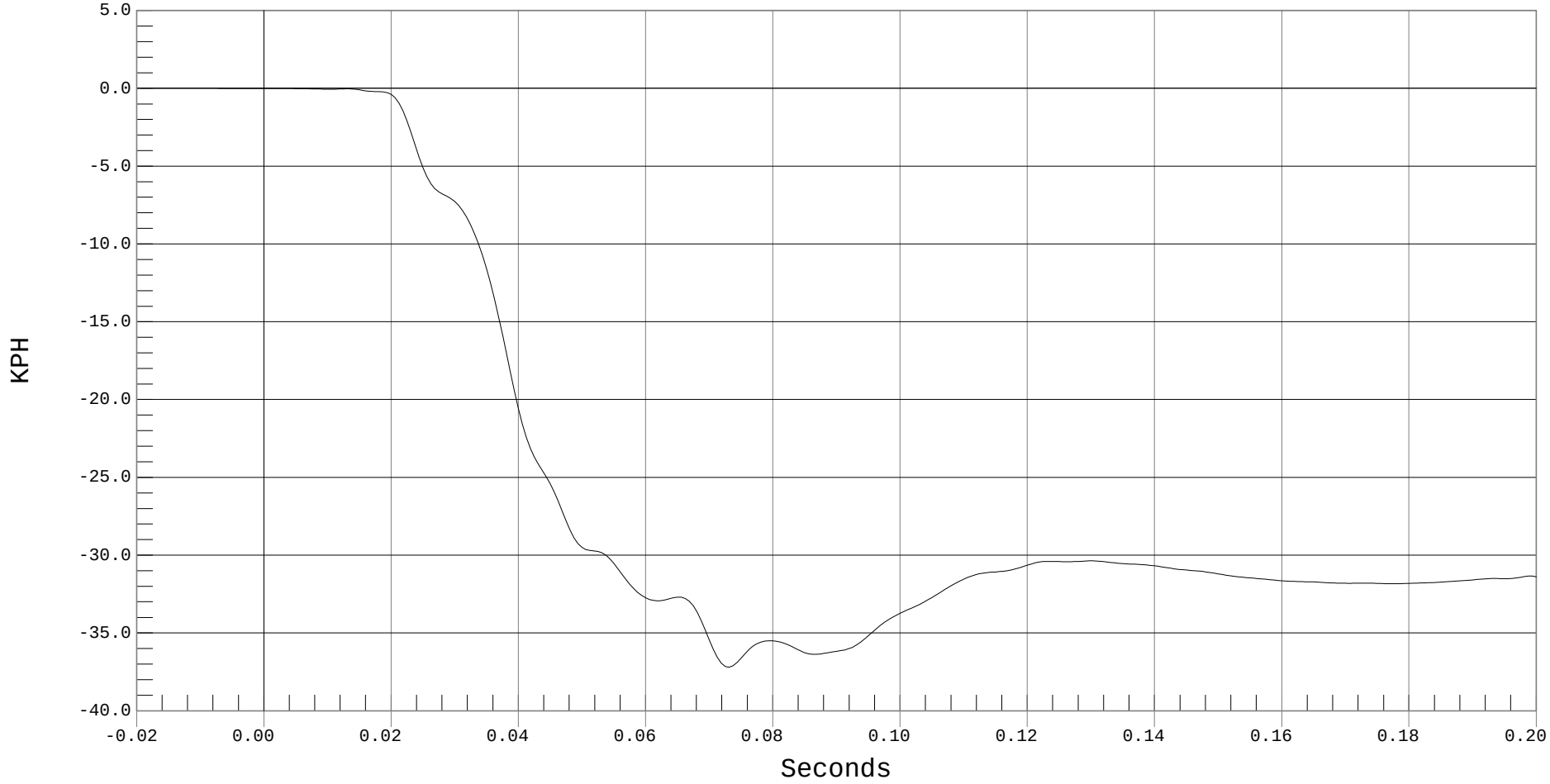
RIGHT FRONT UPPER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT UPPER RIB Y REDUNDANT VELOCITY, b01051FI.V41

Ymin = -37.2 KPH @ 0.0730 Seconds, Ymax = 0 KPH @ -0.0120 Seconds



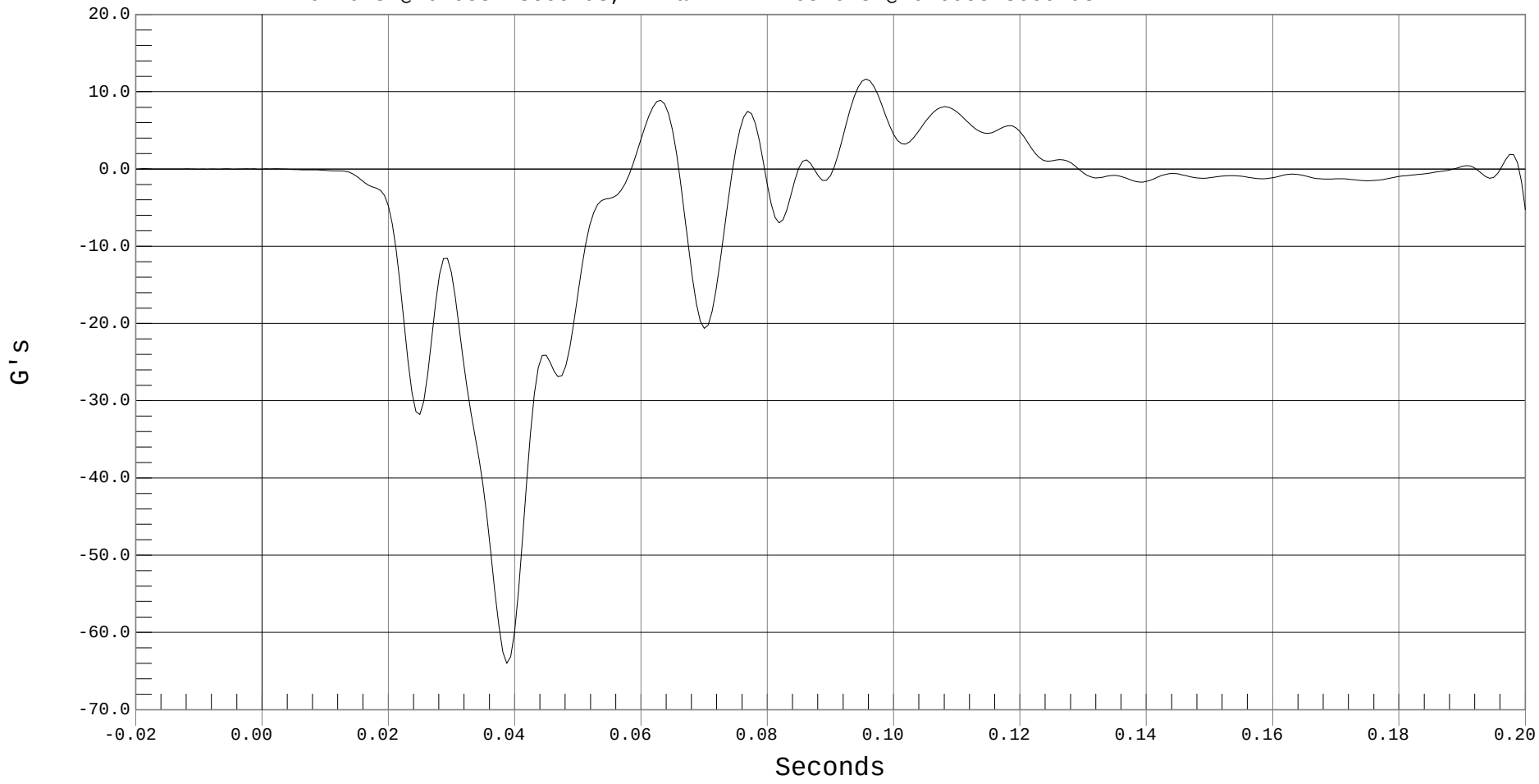
RIGHT FRONT LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER LOWER RIB Yr, b01051FI.R42

Ymin = -64 G's @ 0.0387 Seconds, Ymax = 11.65 G's @ 0.0955 Seconds



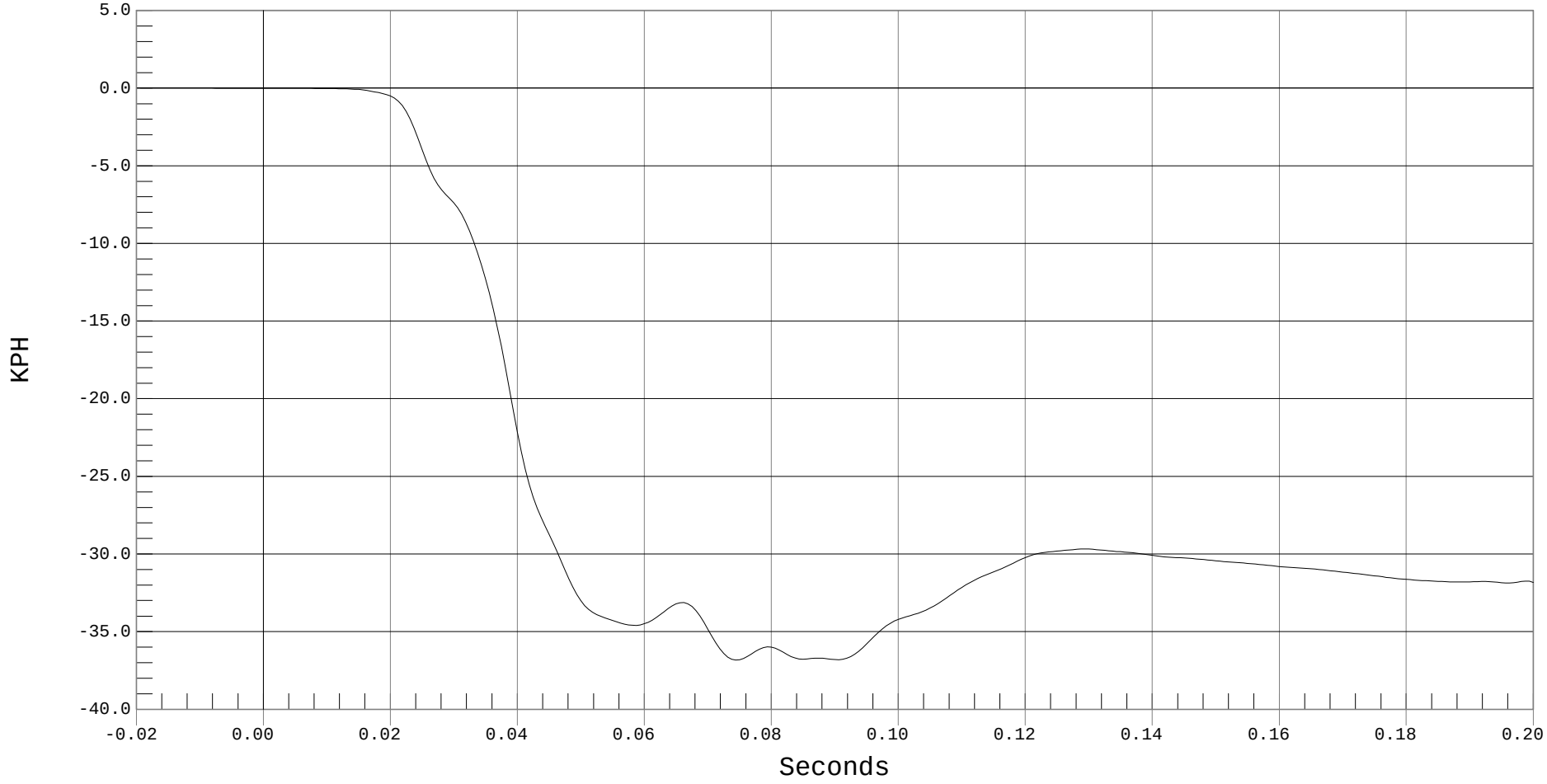
RIGHT FRONT LOWER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT LOWER RIB Y REDUNDANT VELOCITY, b01051FI.V42

Ymin = -36.83 KPH @ 0.0743 Seconds, Ymax = 0 KPH @ -0.0114 Seconds



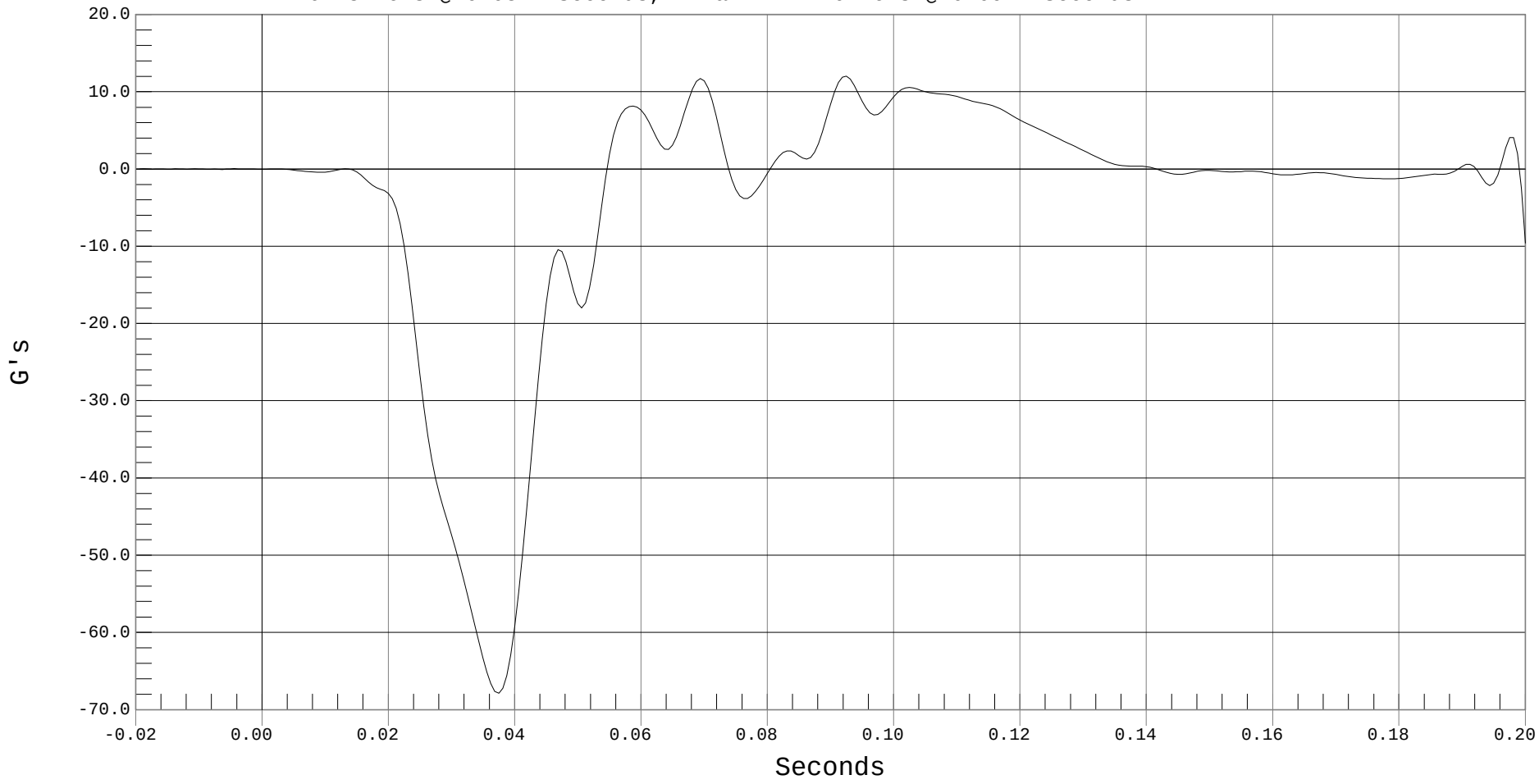
RIGHT FRONT LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER LOWER SPINE Yr, b01051FI.R43

Ymin = -67.87 G's @ 0.0374 Seconds, Ymax = 12.02 G's @ 0.0924 Seconds



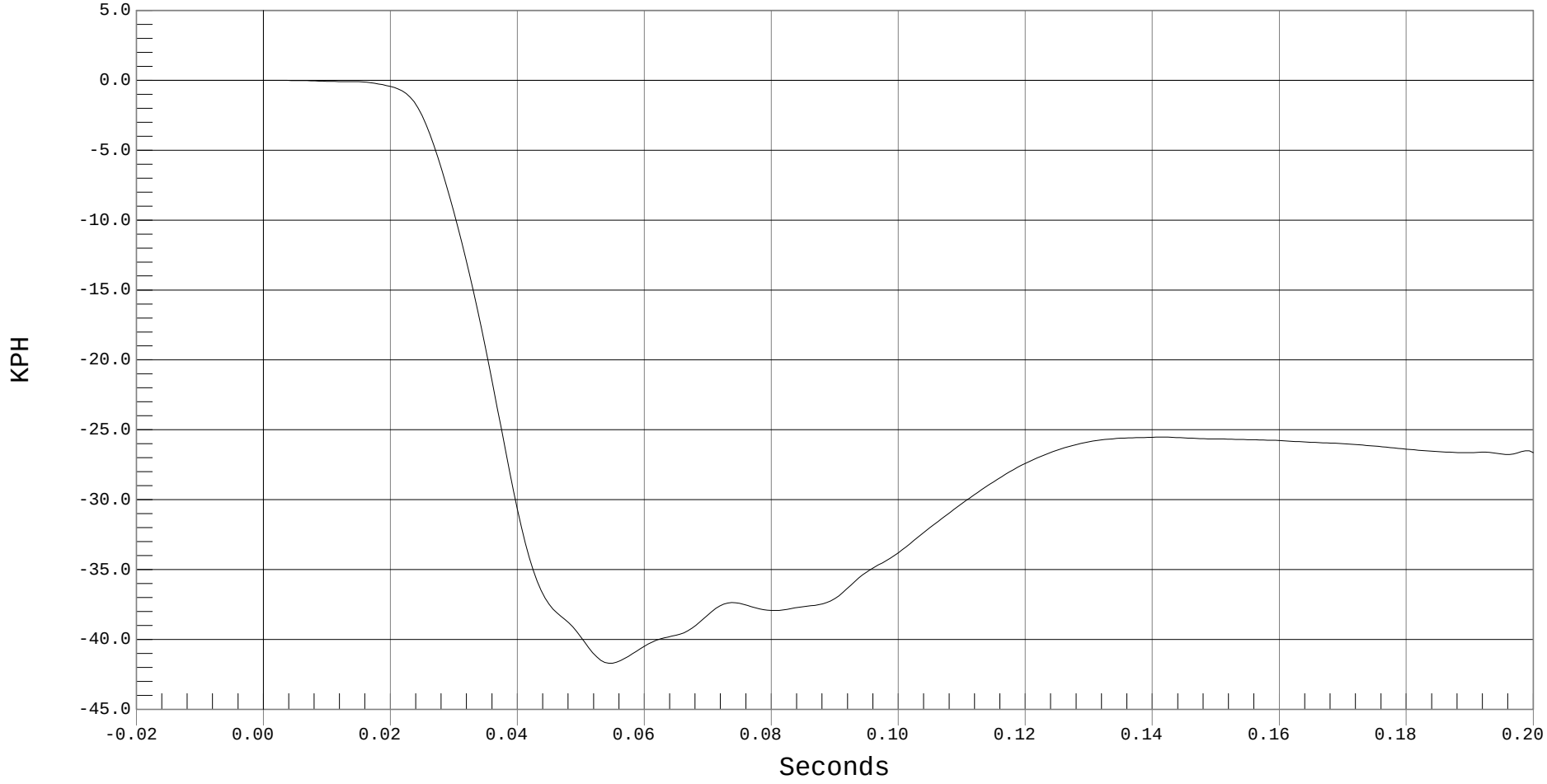
RIGHT FRONT LOWER SPINE REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT LOWER SPINE Y REDUNDANT VELOCITY, b01051FI.V43

Ymin = -41.7 KPH @ 0.0543 Seconds, Ymax = 0 KPH @ -0.0182 Seconds



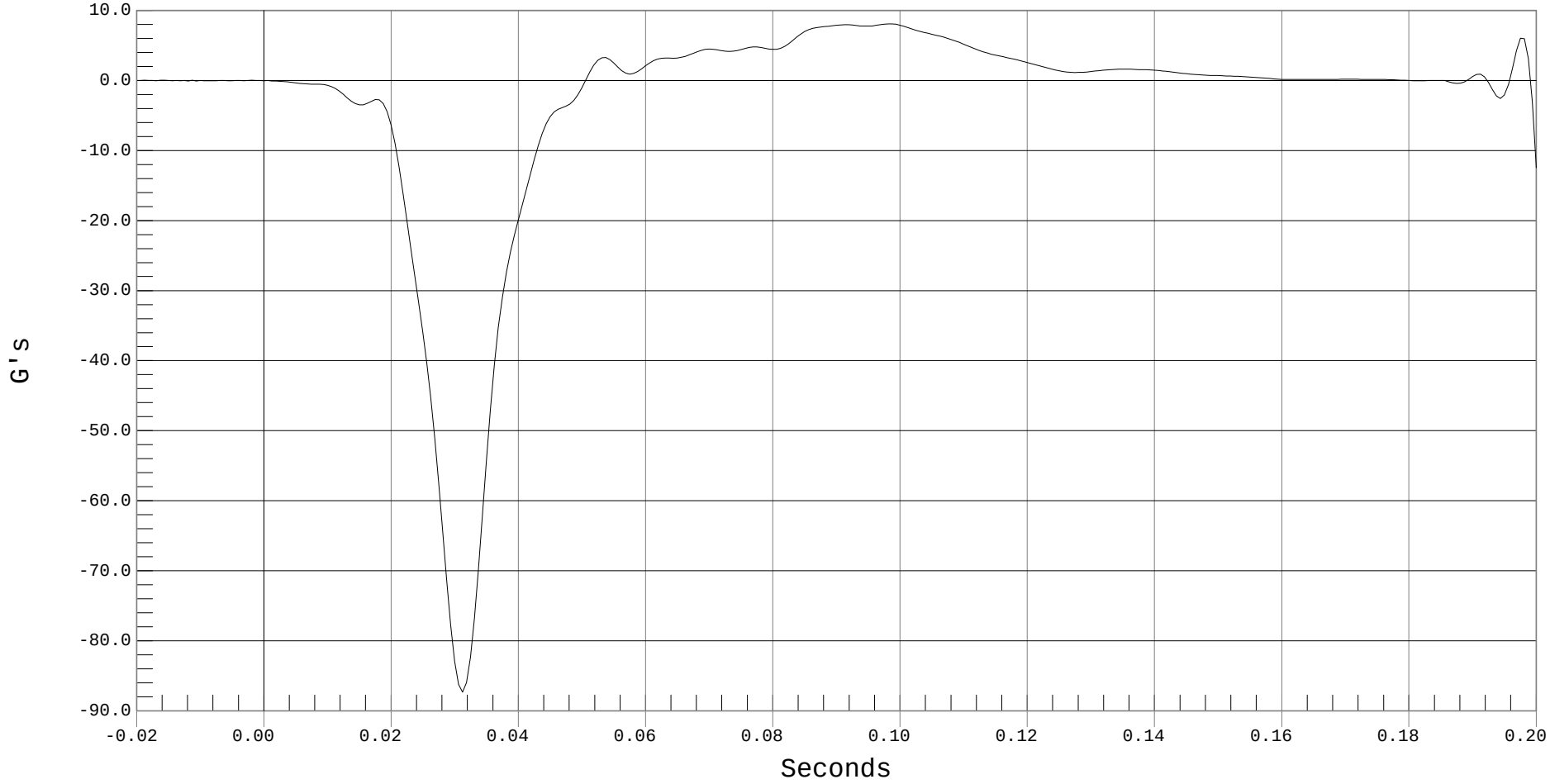
RIGHT FRONT PELVIS REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PASSENGER PELVIS Yr, b01051FI.R44

Ymin = -87.32 G's @ 0.0312 Seconds, Ymax = 8.1 G's @ 0.0980 Seconds



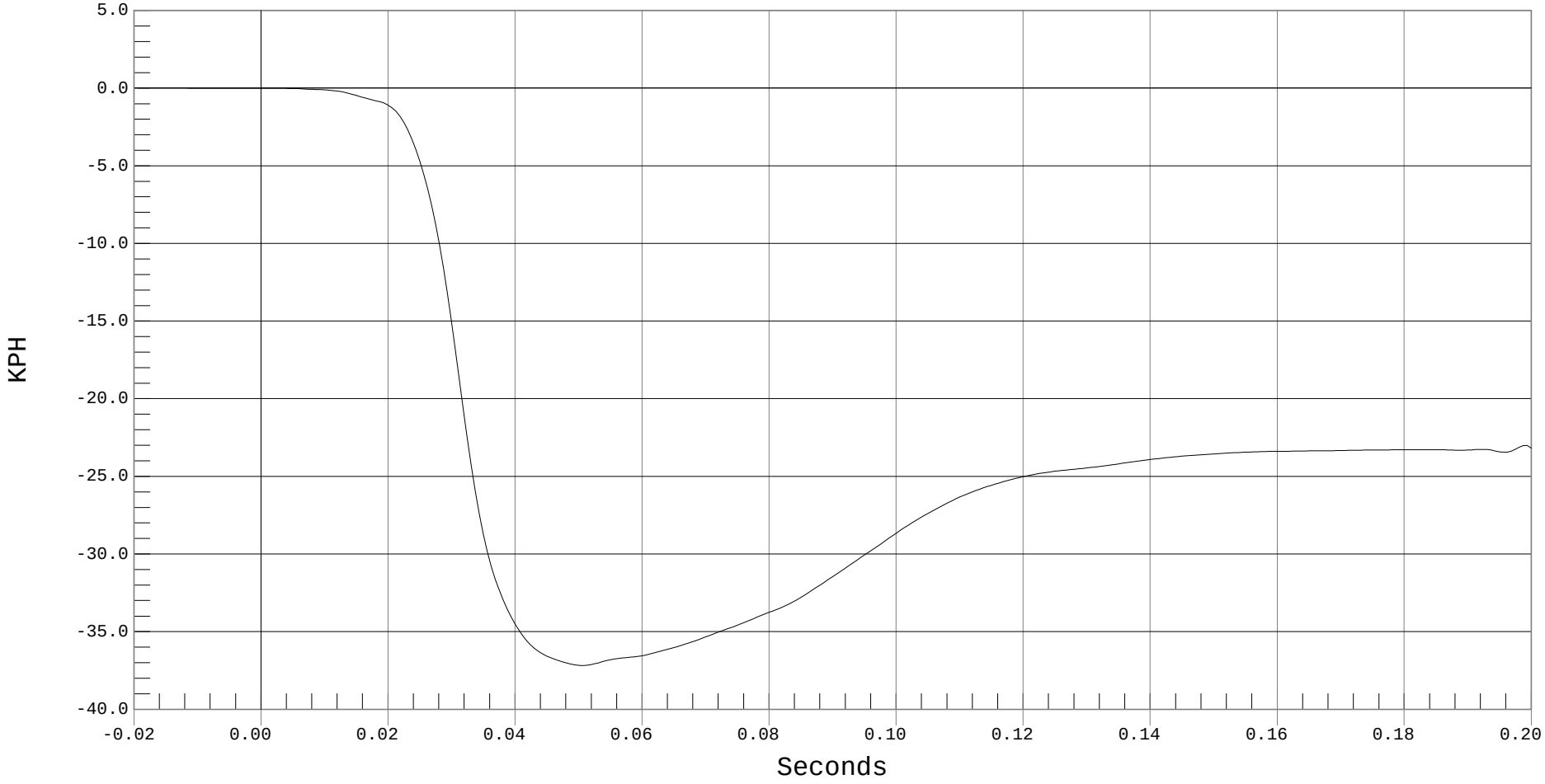
RIGHT FRONT PELVIS REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT FRONT PELVIS Y REDUNDANT VELOCITY, b01051FI.V44

Ymin = -37.19 KPH @ 0.0505 Seconds, Ymax = 0 KPH @ -0.0151 Seconds



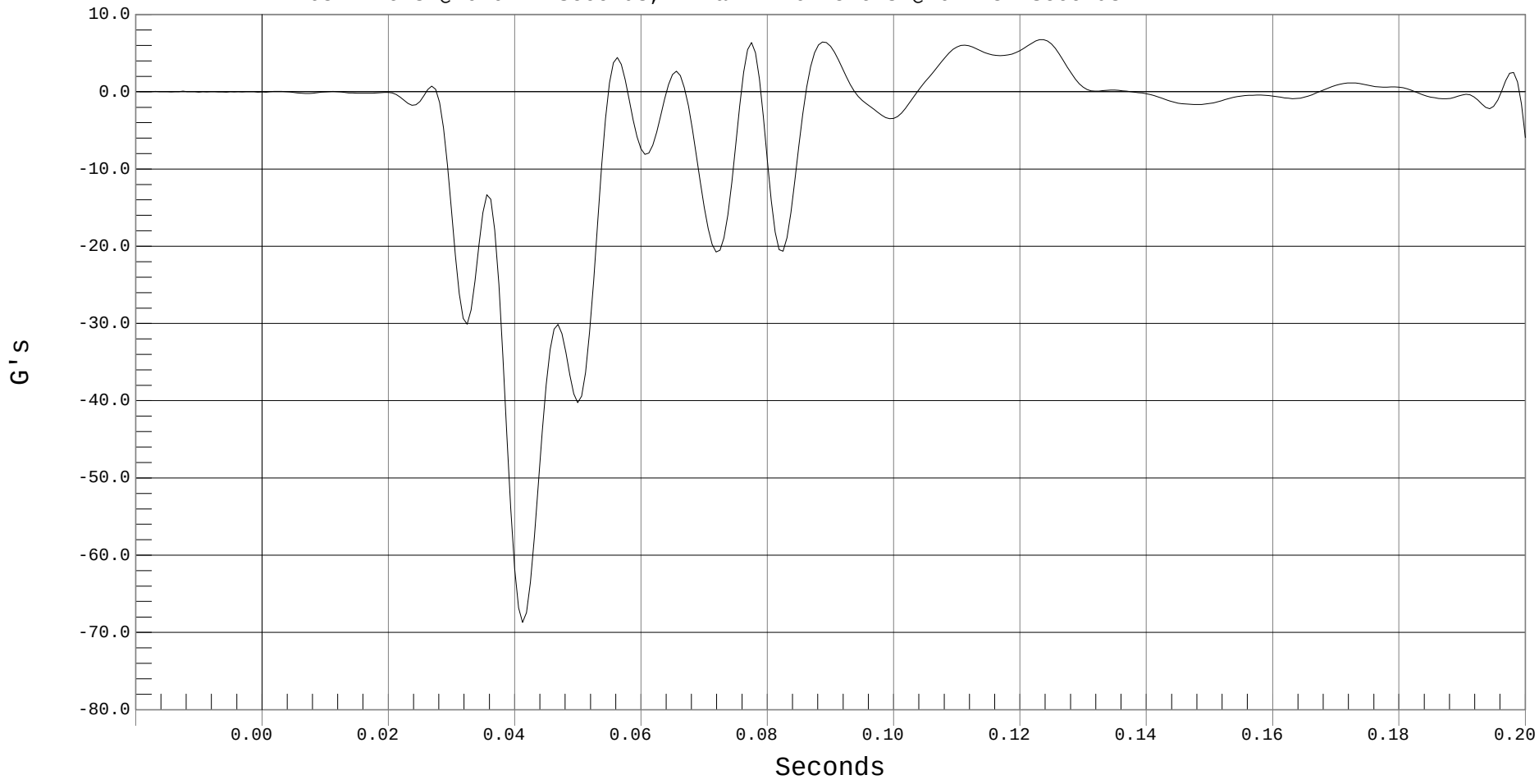
RIGHT REAR PASSENGER UPPER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER UPPER RIB Yr, b01051FI.R45

Ymin = -68.71 G's @ 0.0412 Seconds, Ymax = 6.75 G's @ 0.1237 Seconds



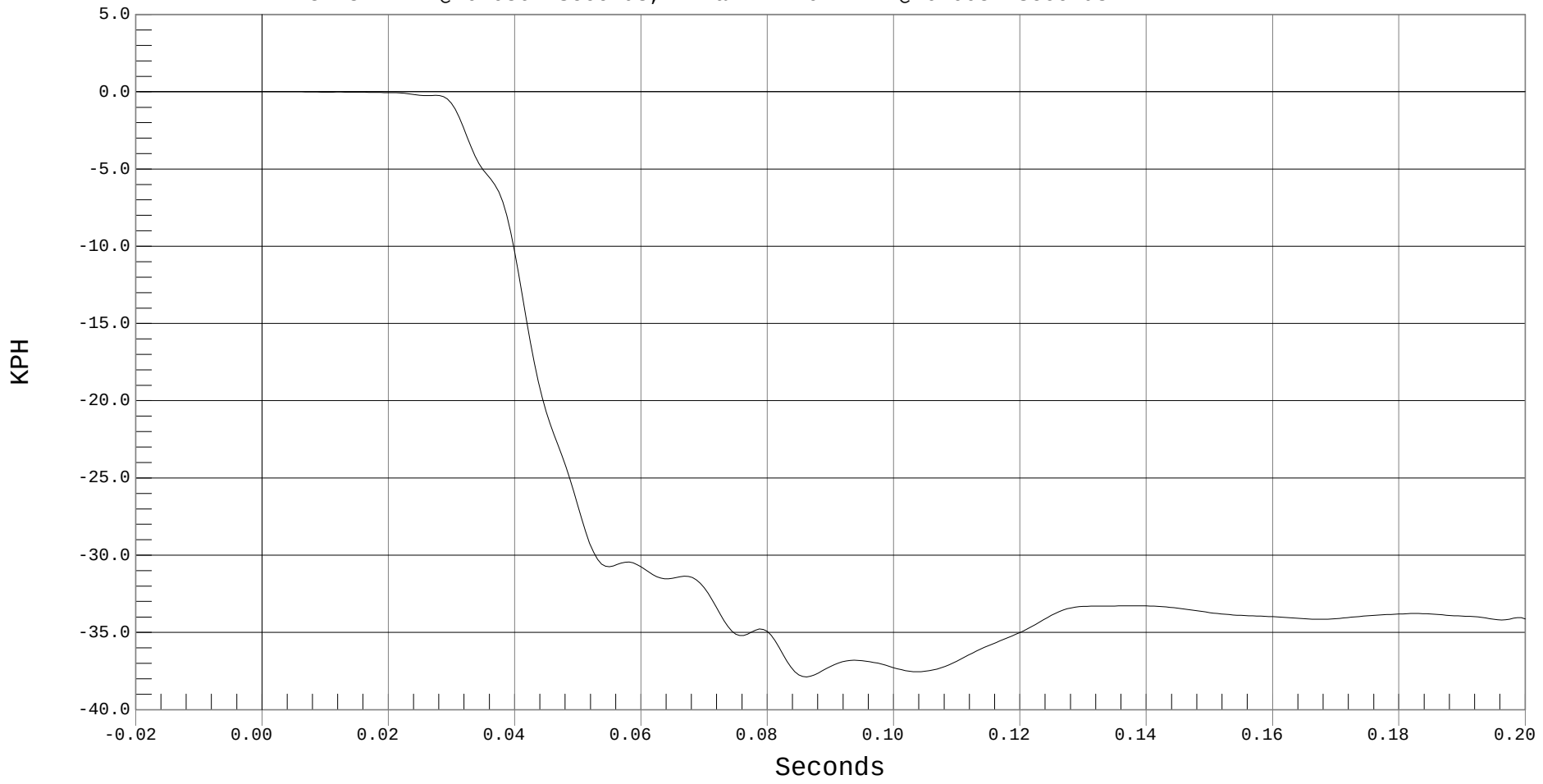
RIGHT REAR PASSENGER UPPER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER UPPER RIB Y REDUNDANT VELOCITY, b01051FI.V45

Ymin = -37.87 KPH @ 0.0862 Seconds, Ymax = .01 KPH @ 0.0037 Seconds



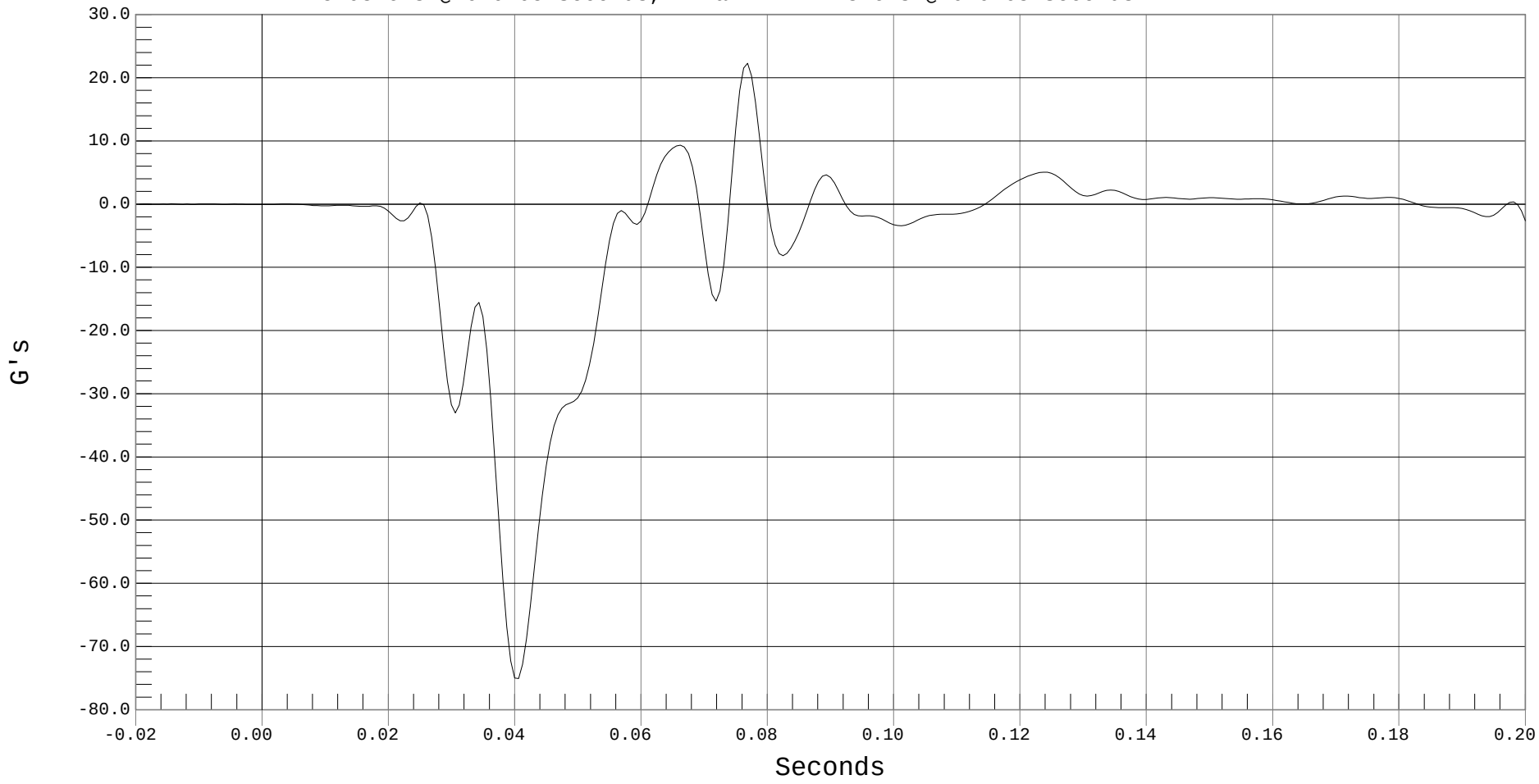
RIGHT REAR PASSENGER LOWER RIB REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER RIB Yr, b01051FI.R46

Ymin = -75.08 G's @ 0.0405 Seconds, Ymax = 22.28 G's @ 0.0768 Seconds



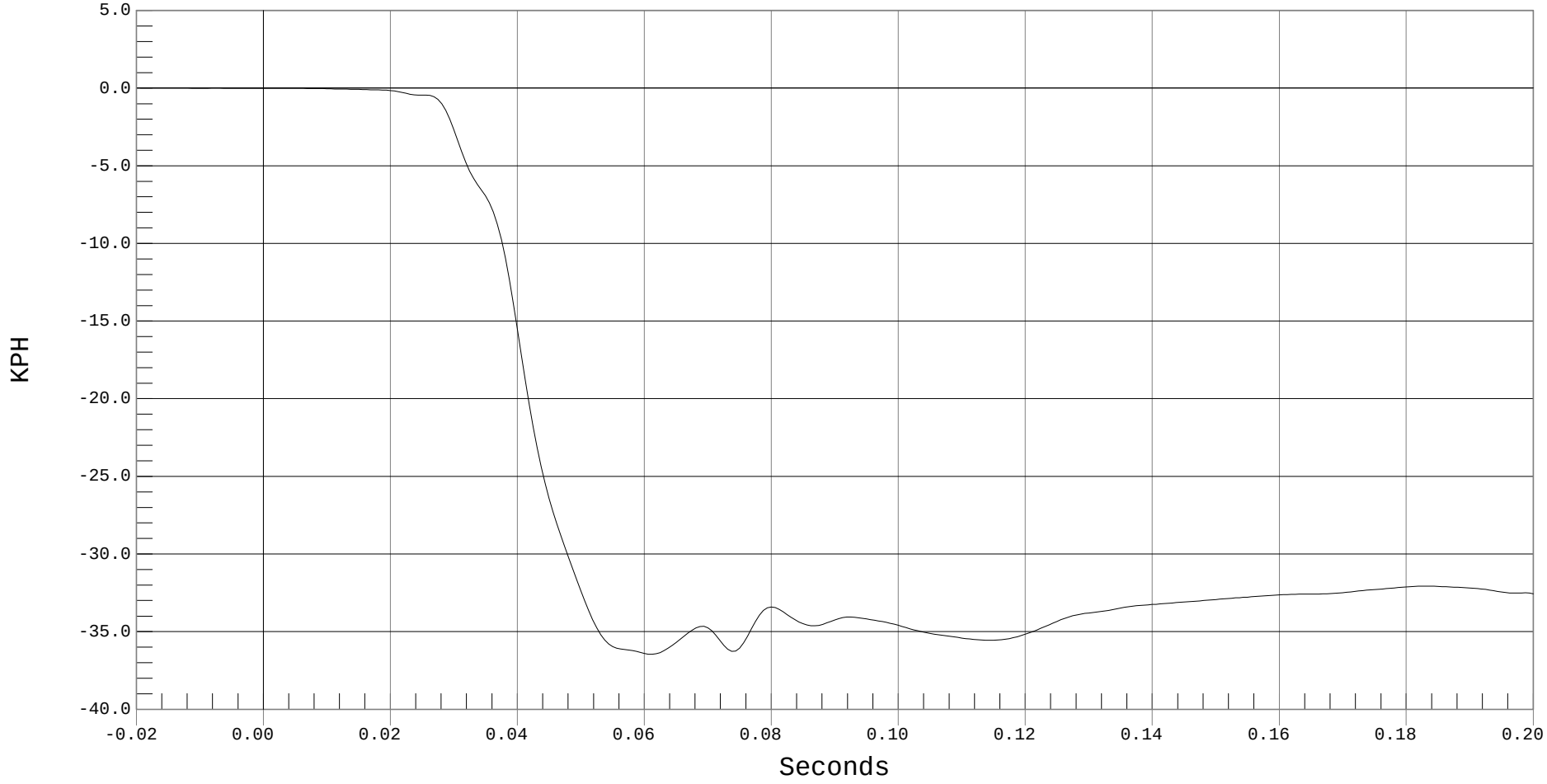
RIGHT REAR PASSENGER LOWER RIB REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER RIB Y REDUNDANT VELOCITY, b01051FI.V46

Ymin = -36.46 KPH @ 0.0612 Seconds, Ymax = 0 KPH @ -0.0176 Seconds



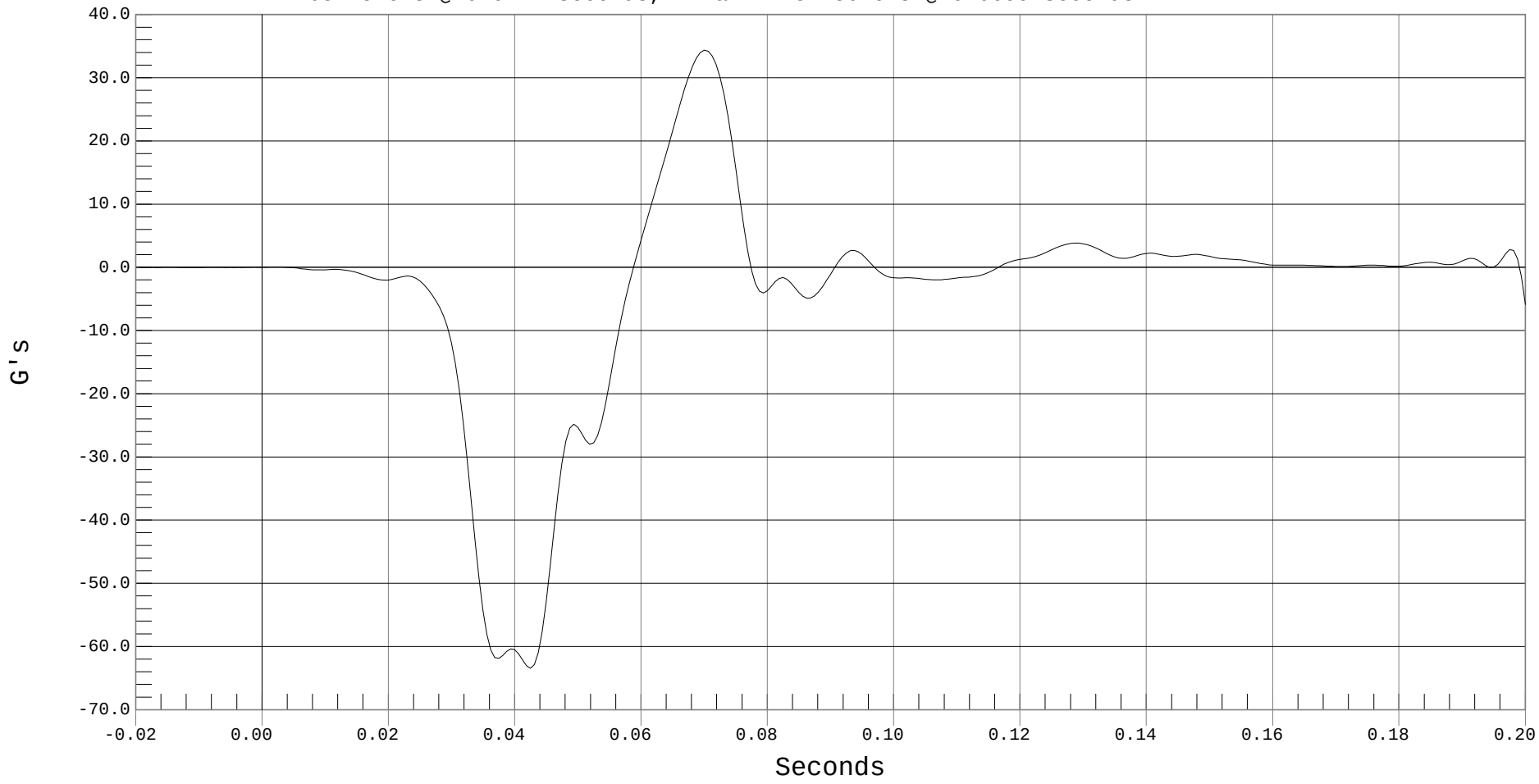
RIGHT REAR PASSENGER LOWER SPINE REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER SPINE Yr, b01051FI.R47

Ymin = -63.45 G's @ 0.0424 Seconds, Ymax = 34.36 G's @ 0.0699 Seconds



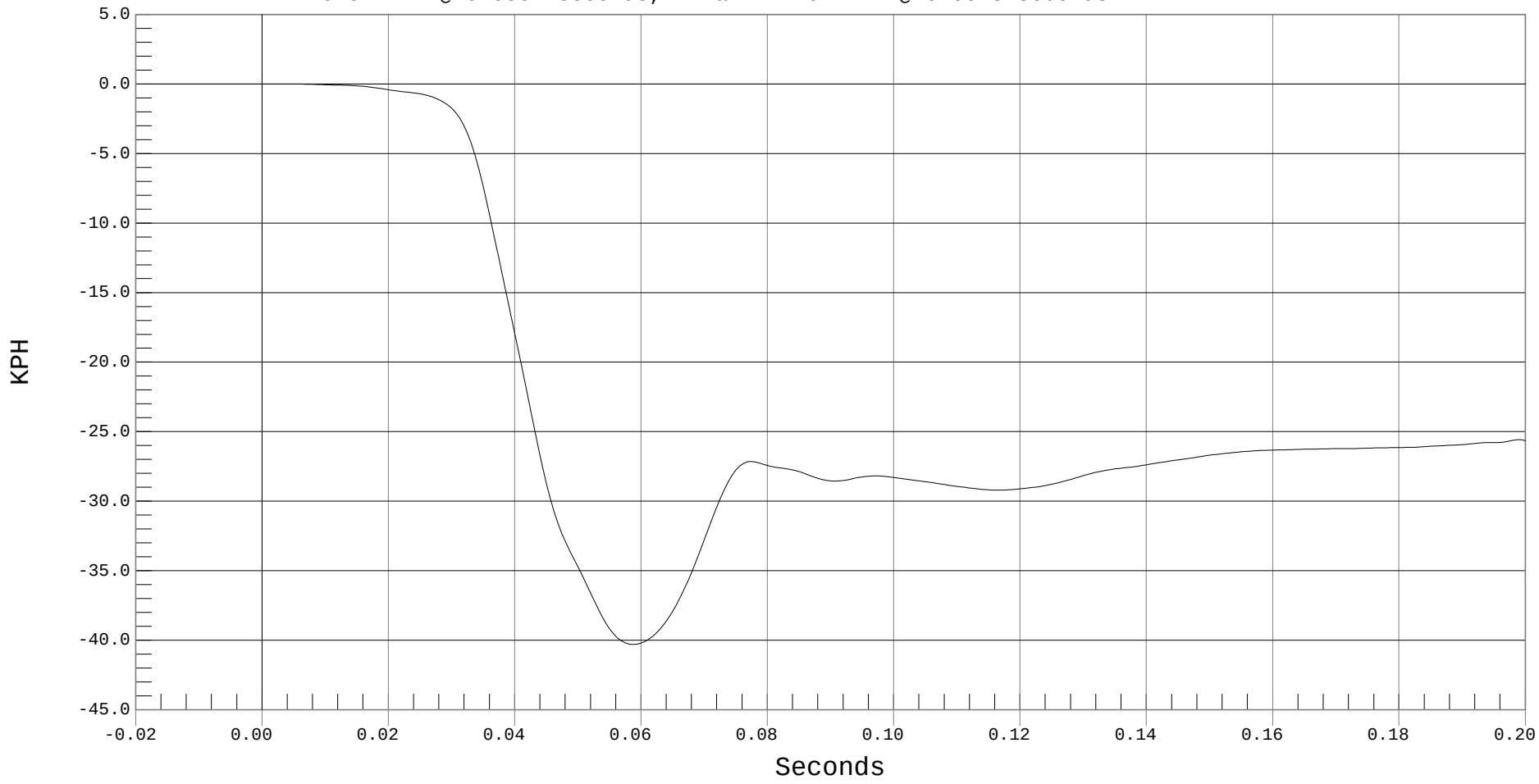
RIGHT REAR PASSENGER LOWER SPINE REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER LOWER SPINE Y REDUNDANT VELOCITY, b01051FI.V47

Ymin = -40.31 KPH @ 0.0587 Seconds, Ymax = .01 KPH @ 0.0043 Seconds



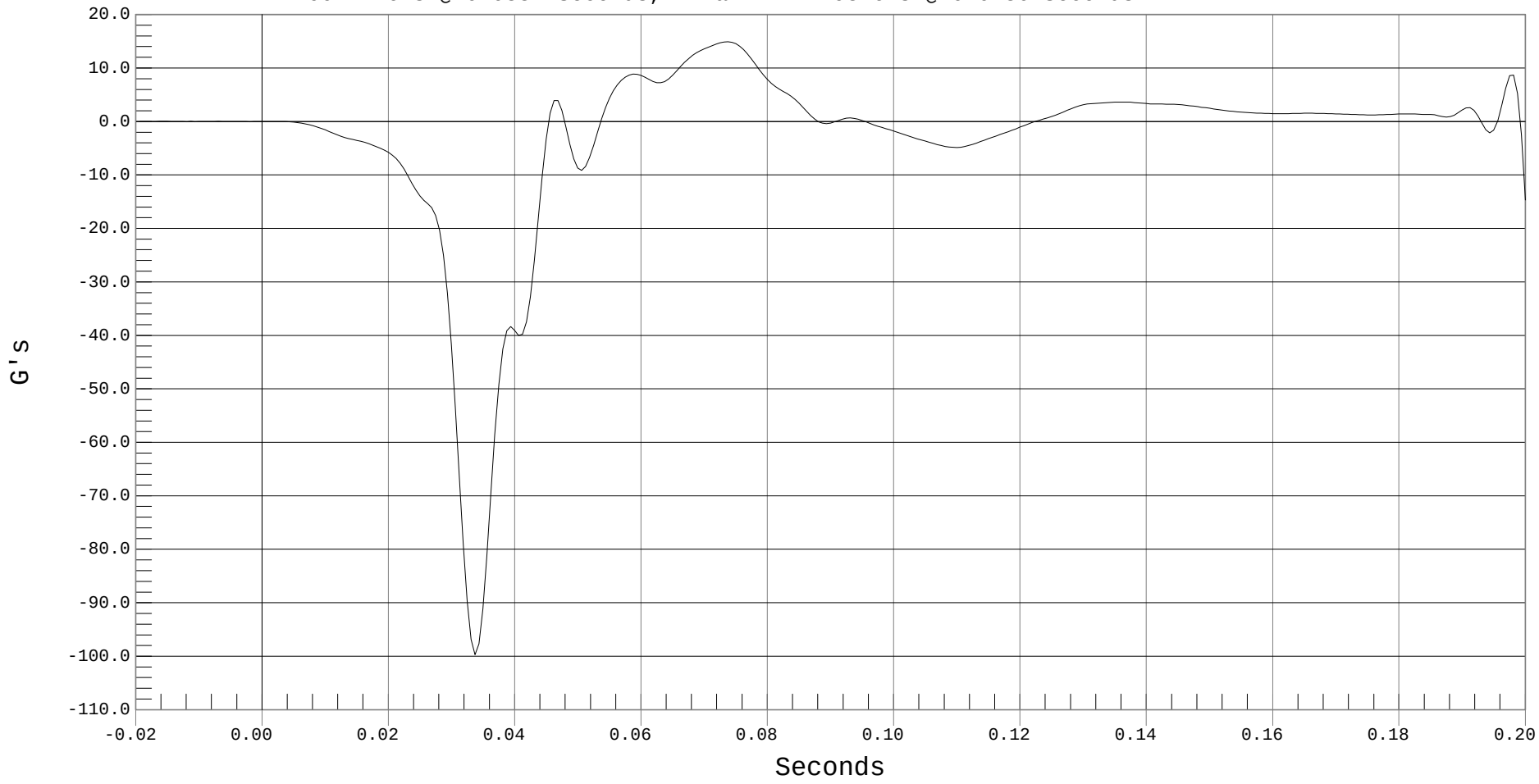
RIGHT REAR PASSENGER PELVIS REDUNDANT Y ACCELERATION

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER PELVIS Yr, b01051FI.R48

Ymin = -99.72 G's @ 0.0337 Seconds, Ymax = 14.93 G's @ 0.0736 Seconds



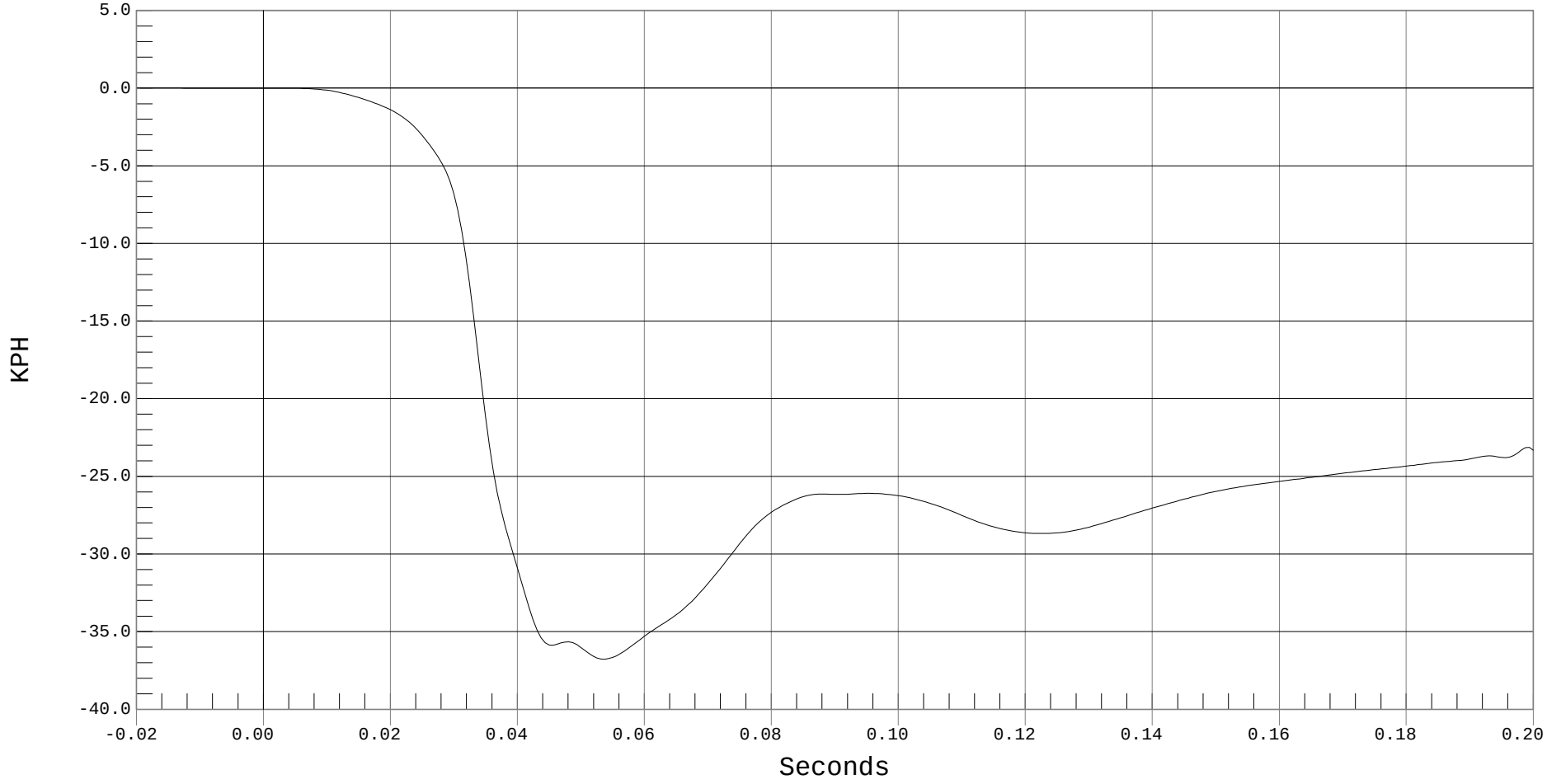
RIGHT REAR PASSENGER PELVIS REDUNDANT Y VELOCITY

Test Desc.: FMVSS 214 SIDE IMPACT
Component: 1995 FORD ESCORT 4 DOOR
Other Info:

Test Date: 05-03-01
Speed: 33.0 MPH, 53.1 KPH
Fir Filtered

1 RIGHT REAR PASSENGER PELVIS Y REDUNDANT VELOCITY, b01051FI.V48

Ymin = -36.77 KPH @ 0.0537 Seconds, Ymax = 0 KPH @ -0.0195 Seconds



APPENDIX C

SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA

CALIBRATION DATA SUMMARY

SIDE IMPACT DUMMY (SID)

CONFIGURED TO RIGHT SIDE IMPACT

Report Date: 5/2/01 Technician: Tim Michnay

Test Parameter	Specification	Dummy Serial Number: 049	Dummy Serial Number: 048
		Pre-Test	Pre-Test
SH-Seated Height (mm)	889 – 909	900	903
RH-Rib Height (mm)	501 – 521	517	505
HP-Hip Pivot Height (mm)	99 ref.	99	99
RD-Rib from Back Line (mm)	229 – 241	234	238
KV-Knee Pivot from Back Line (mm)	511 – 526	522	521
SW-Knee Pivot to Floor (mm)	490 – 505	492	493
HW-Hip Width (mm)	356 - 391	369	365
Thorax Impact			
Temperature (°C)	18.9 – 25.5	20.9	21.0
Relative Humidity (%)	10 – 70	46	47
Probe Speed (m/s)	4.27 – 4.33	4.29	4.27
Upper Rib (g's)	37 – 46	46	39
Lower Rib (g's)	37 – 46	43	39
Lower Spine (g's)	15 – 22	22	20
Pelvis Impact			
Temperature (°C)	18.9 – 25.5	20.9	20.9
Relative Humidity (%)	10 – 70	46	46
Probe Speed (m/s)	4.27 – 4.33	4.29	4.29
Pelvis (g's)	40 - 60	41	42

REMARKS:

CERTIFICATION DATA

Dummy Serial Number: 049

Calibration Test Results Summary

Dummy Serial Number: 049

Pre-Test Calibration

External Dimensions:	The dummy passed all external dimension requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion Test:	The lumbar passed all flexion test requirements.

SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

Dummy Serial Number: 049

Date of Verification: 5/2/01

Test Number: D0157

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH-Seated Height (mm)	889 – 909	900
RH-Rib Height (mm)	501 – 521	517
HP-Hip Pivot Height (mm)	99 ref.	99
RD-Rib From Back Line (mm)	229 - 241	234
KV-Knee Pivot From Back Line (mm)	511 – 526	522
SW-Knee Pivot to Floor (mm)	490 – 505	492
HW – Hip Width (mm)	356 – 391	369

Technician: _____

Approved By: _____

MGA RESEARCH CORPORATION

THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 049

Test Number: D01572

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	20.9
Relative Humidity (%)	10 – 70	46
Probe Speed (m/s)	4.27 – 4.33	4.29
Upper Rib (g's)	37 – 46	46
Lower Rib (g's)	37 – 46	43
Lower Spine (g's)	15 - 22	22

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

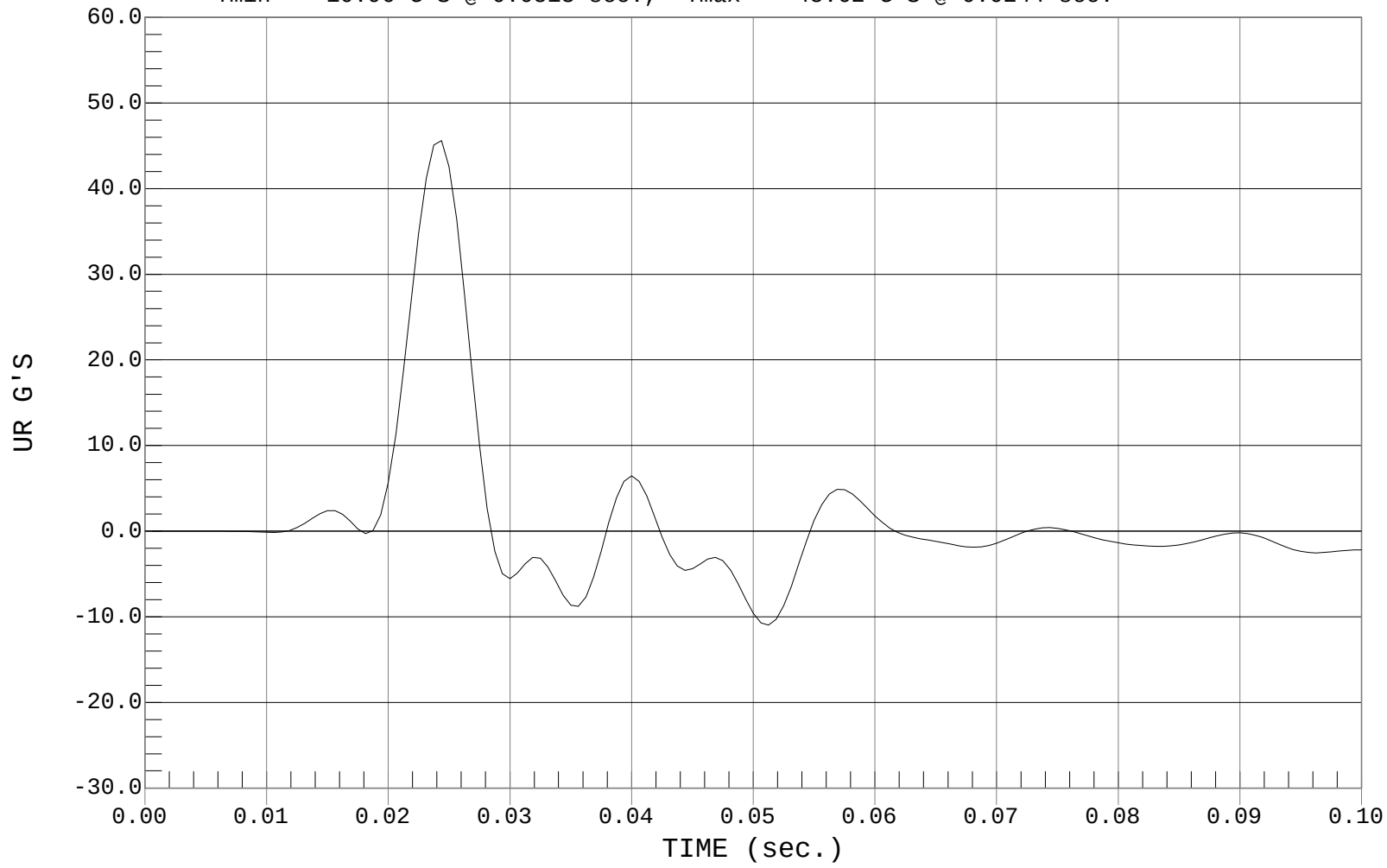
UPPER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #049

Test Date: 05-02-01
Speed: 14.07 FT/SEC, 4.29 M/SEC

1 UR, D01572FI.R08

Ymin = -10.96 G'S @ 0.0513 sec., Ymax = 45.62 G'S @ 0.0244 sec.



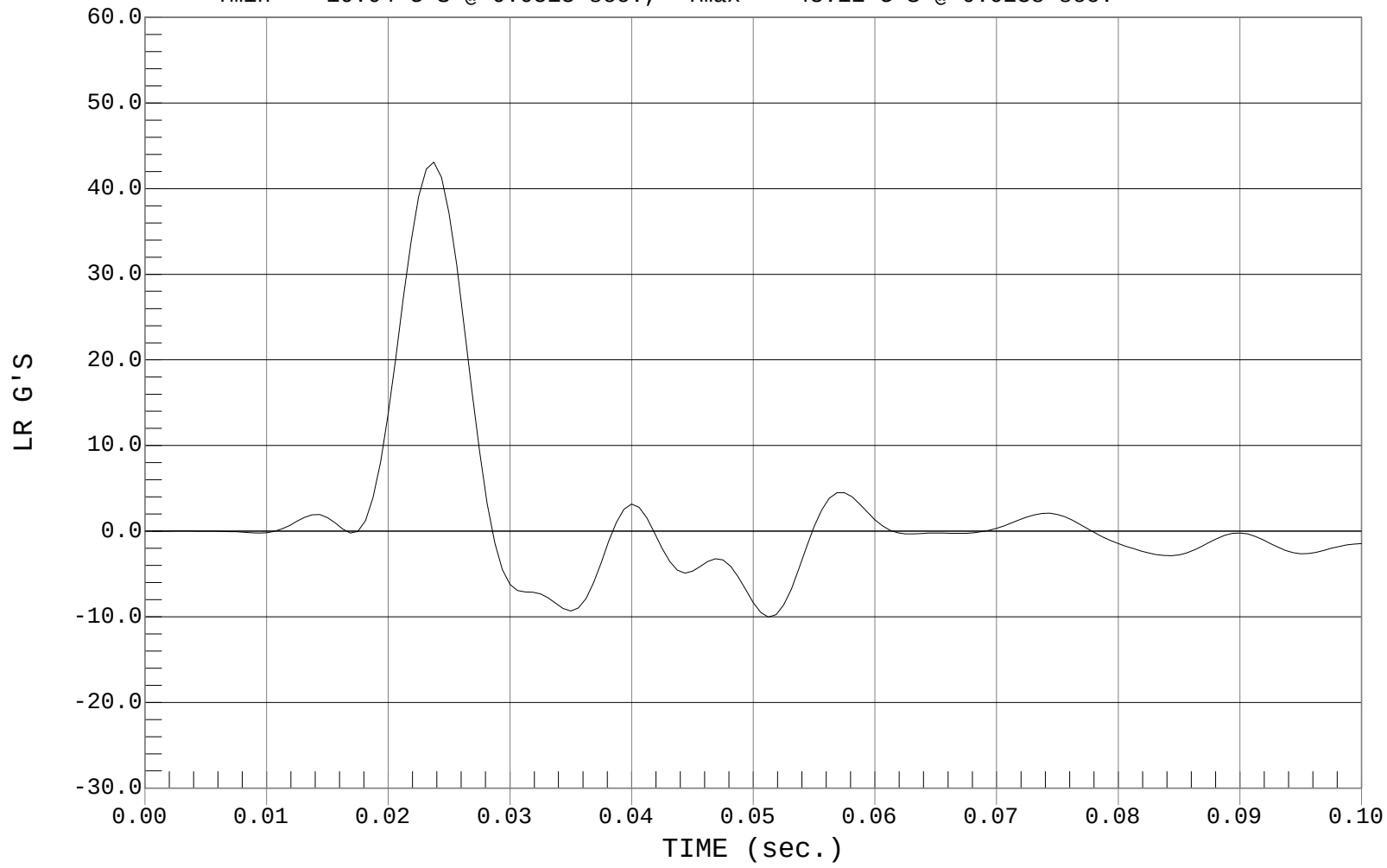
LOWER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #049

Test Date: 05-02-01
Speed: 14.07 FT/SEC, 4.29 M/SEC

1 LR, D01572FI.R09

Ymin = -10.04 G'S @ 0.0513 sec., Ymax = 43.11 G'S @ 0.0238 sec.



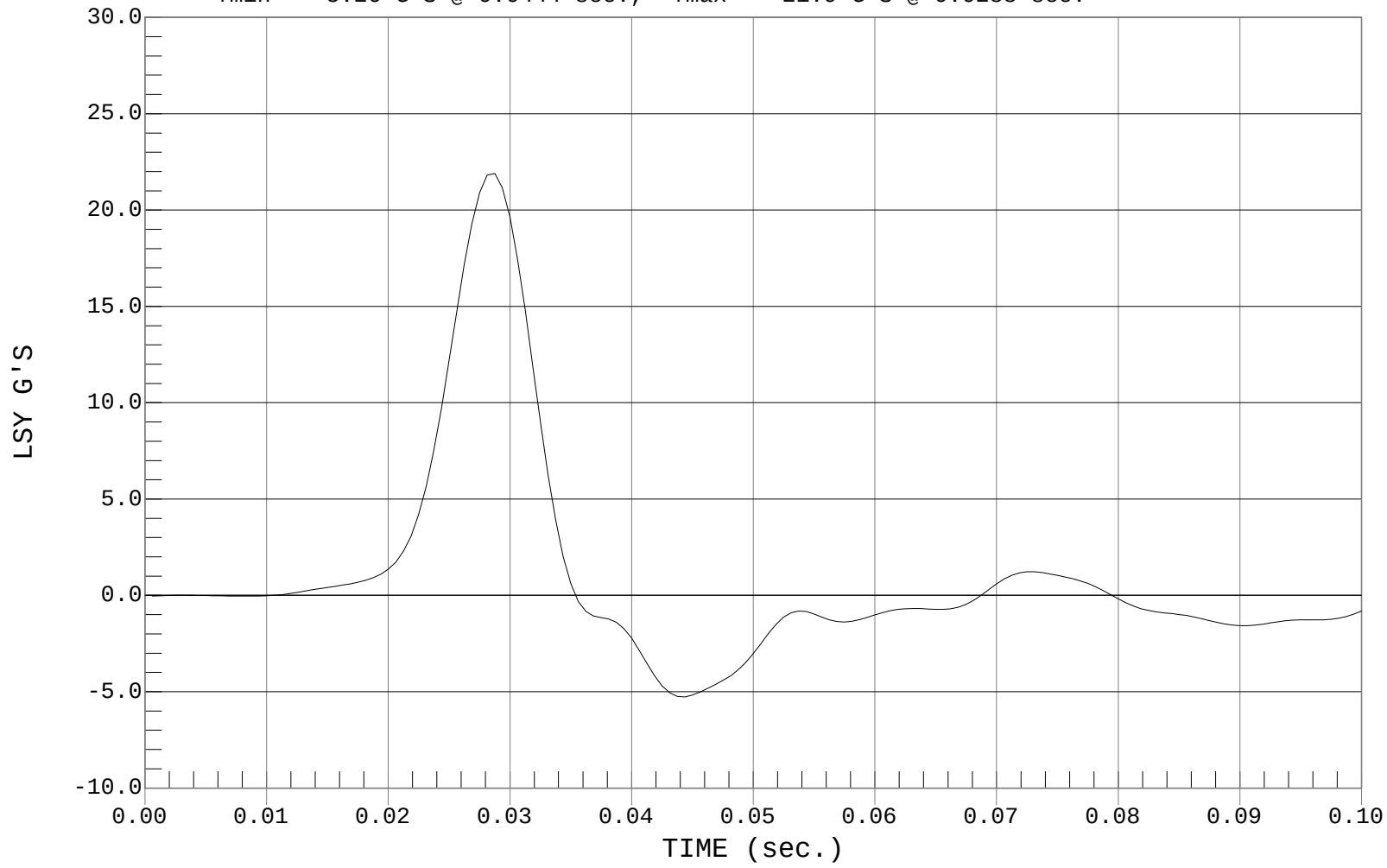
LOWER SPINE ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #049

Test Date: 05-02-01
Speed: 14.07 FT/SEC, 4.29 M/SEC

1 LSY, D01572FI.R10

Ymin = -5.26 G'S @ 0.0444 sec., Ymax = 21.9 G'S @ 0.0288 sec.



MGA RESEARCH CORPORATION

PELVIS IMPACT TEST

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 049

Test Number: D01573

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	20.9
Relative Humidity (%)	10 – 70	46
Probe Speed (m/s)	4.27 – 4.33	4.29
Pelvis Acceleration (g's)	40 – 60	41

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

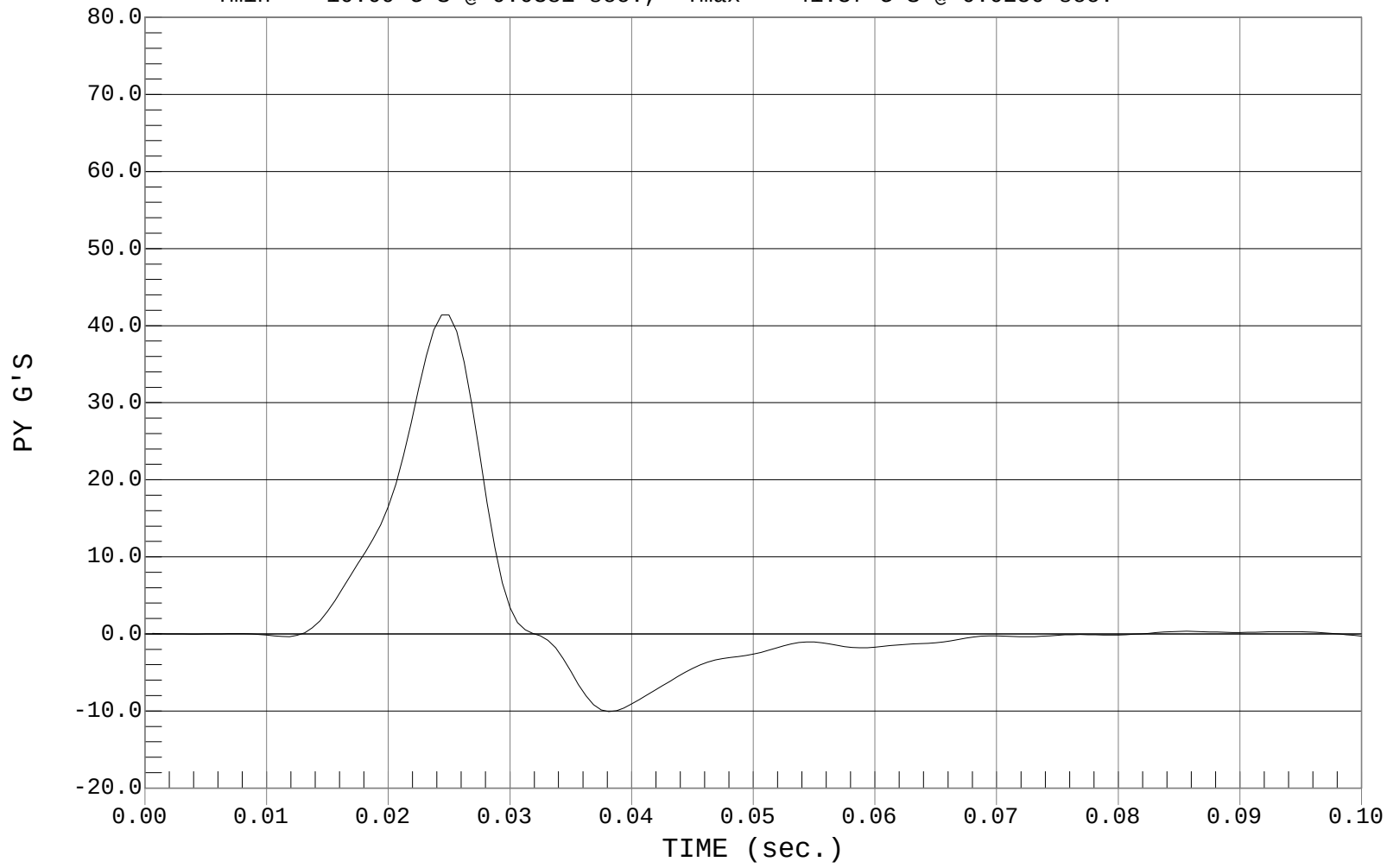
PELVIS ACCELERATION

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #049

Test Date: 05-02-01
Speed: 14.06 FT/SEC, 4.29 M/SEC

1 PY, D01573FI.R11

Ymin = -10.09 G'S @ 0.0381 sec., Ymax = 41.37 G'S @ 0.0250 sec.



MGA RESEARCH CORPORATION

ABDOMINAL COMPRESSION TEST (PRELOAD = 10 LBS)

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 049

Test Number: D01574

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.1
Relative Humidity (%)	10 – 70	43
Force @ 12.7 mm	104 – 162	144
Force @ 19 mm	163 – 222	202
Force @ 25.4 mm	222 – 280	271
Force @ 33 mm	325 - 391	366

TEST MEETS SPECIFICATIONS

Technician: _____

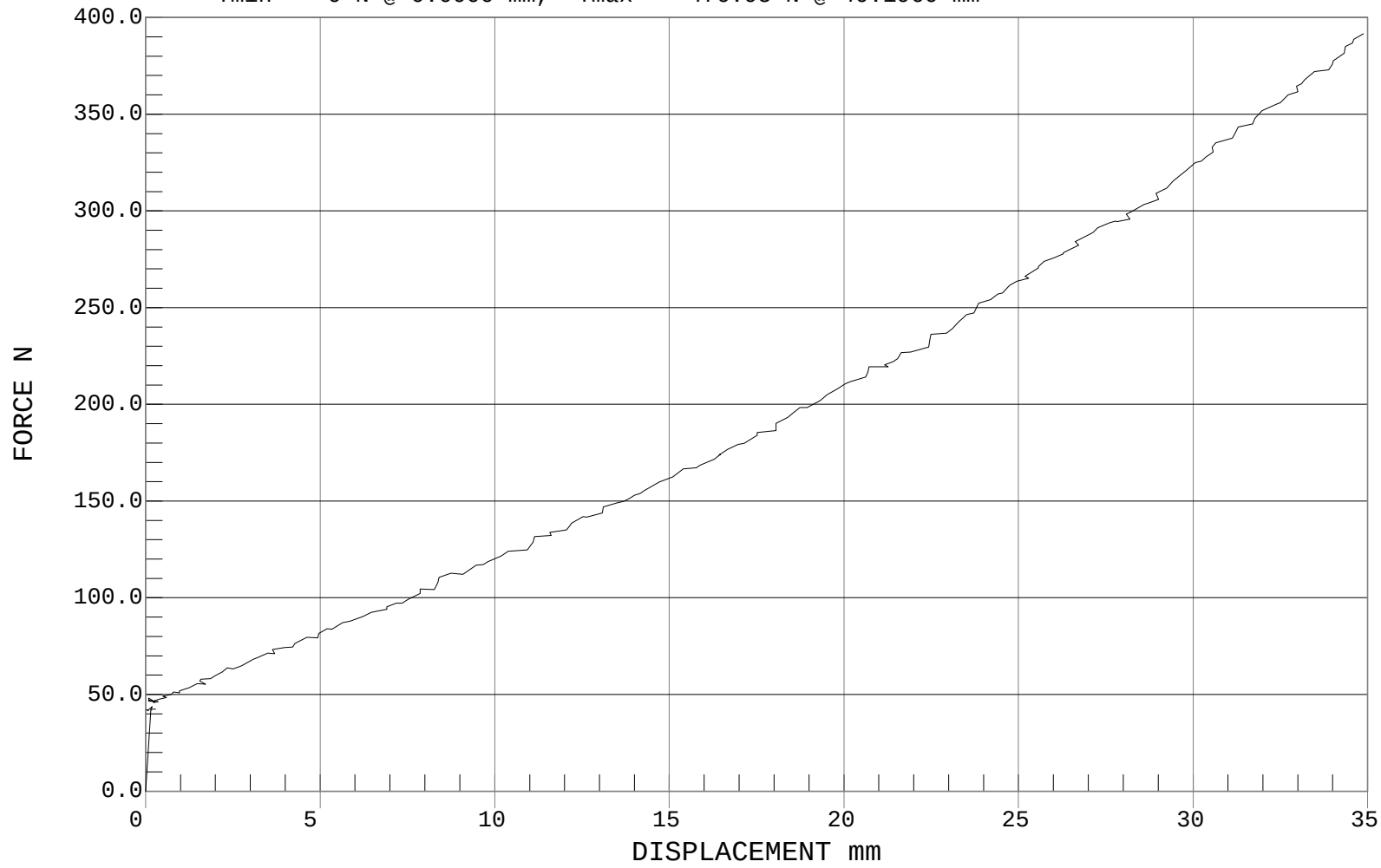
Approved By: _____

ABDOMEN COMPRESSION

Test Desc.: DUMMY CALIBRATION - ABDOMEN COMPRESSION Test Date: 05-02-01
Component: DUMMY # 049 Speed: 0.00 FT/SEC, 0.00 M/SEC

1 FORCE, D01574FC.F16

Ymin = 0 N @ 0.0000 mm, Ymax = 476.95 N @ 40.1960 mm



MGA RESEARCH CORPORATION

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 049

Test Number: D01575

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.1
Relative Humidity (%)	10 – 70	47.3
Force @ 0°	0 – 26.7	0
Force @ 20°	97.9 – 151.2	104.1
Force @ 30°	151.2 – 204.6	160.6
Force @ 40°	204.6 – 258.0	221.2
Return Angle	12° maximum	2

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

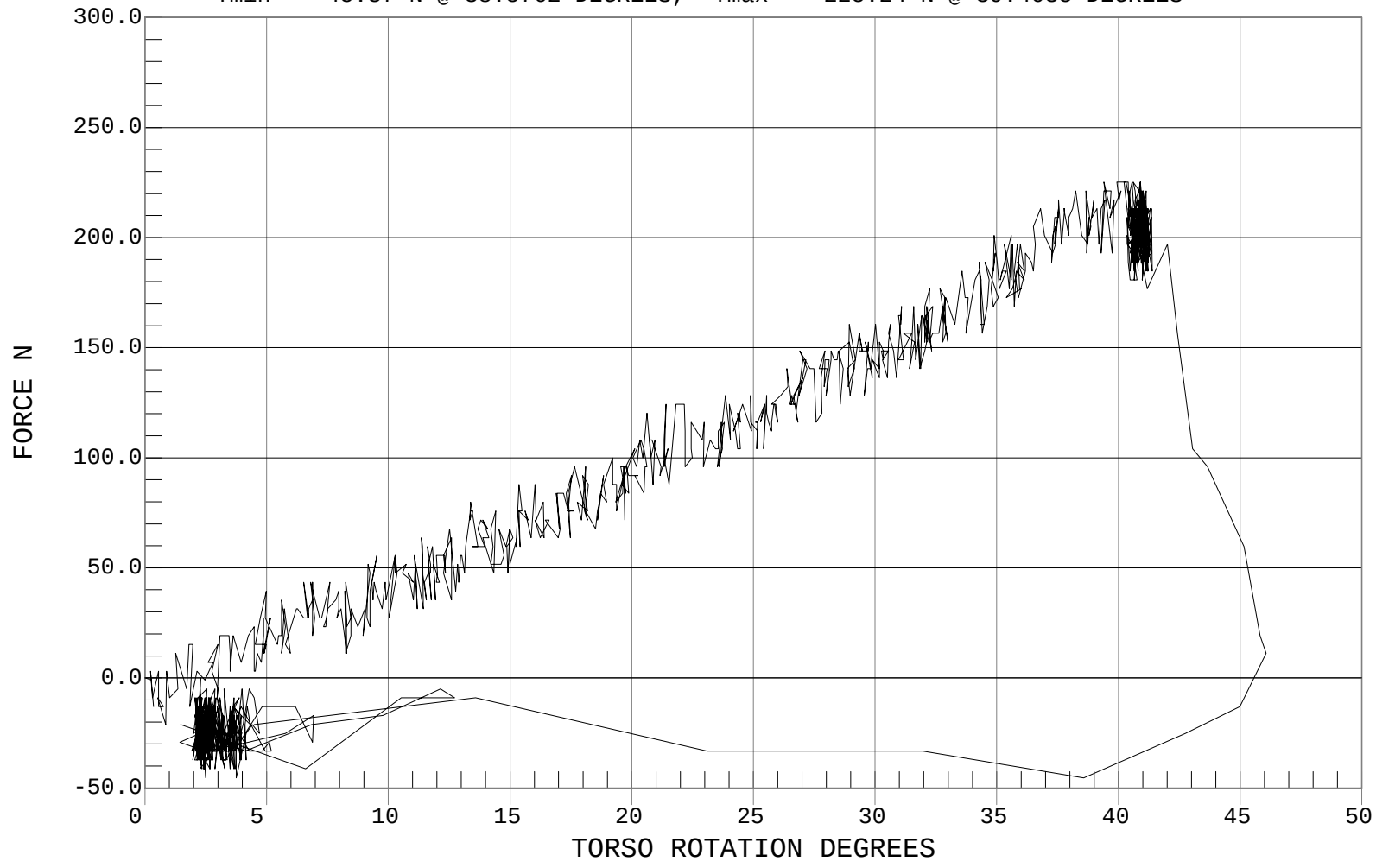
LUMBAR FLEXION

Test Desc.: DUMMY CALIBRATION - LUMBAR FLEXION
Component: DUMMY # 049

Test Date: 05-02-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 FORCE, D01575FC.F14

Ymin = -45.37 N @ 38.5762 DEGREES, Ymax = 225.24 N @ 39.4035 DEGREES



DUMMY INSPECTION CHECKLIST

Type: Side Impact Dummy

Dummy Serial Number: 049

Inspected By: Tim Michnay

Date: 5/2/01

Part	Items Checked	Comments
Skin	visual inspection	OK
Head	visual, ballast, accelerometer mount	OK
Neck	visual	OK
Spine box	visual, ballast, weldment, accelerometer mount	OK
Rib cage	visual, measure	OK
Sternum	visual	OK
Lumbar spine	visual	OK
Abdomen	visual	OK
Pelvis	visual, palpate, accelerometer mount	OK
Upper legs	visual	OK
Knees	visual	OK
Lower legs	visual, range of motion	OK
Ankles	visual, range of motion	OK
Feet	visual, range of motion	OK
Joints	1 to 2 g range	OK
Other		

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

CERTIFICATION DATA

Dummy Serial Number:048

Calibration Test Results Summary

Dummy Serial Number: 048

Pre-Test Calibration

External Dimensions:	The dummy passed all external dimension requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion Test:	The lumbar passed all flexion test requirements.

SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

Dummy Serial Number: 048

Date of Verification: 5/2/01

Test Number: D0156

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH-Seated Height (mm)	889 – 909	903
RH-Rib Height (mm)	501 – 521	505
HP-Hip Pivot Height (mm)	99 ref.	99
RD-Rib From Back Line (mm)	229 - 241	238
KV-Knee Pivot From Back Line (mm)	511 – 526	521
SW-Knee Pivot to Floor (mm)	490 – 505	493
HW – Hip Width (mm)	356 – 391	365

Technician: _____

Approved By: _____

MGA RESEARCH CORPORATION

THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 048

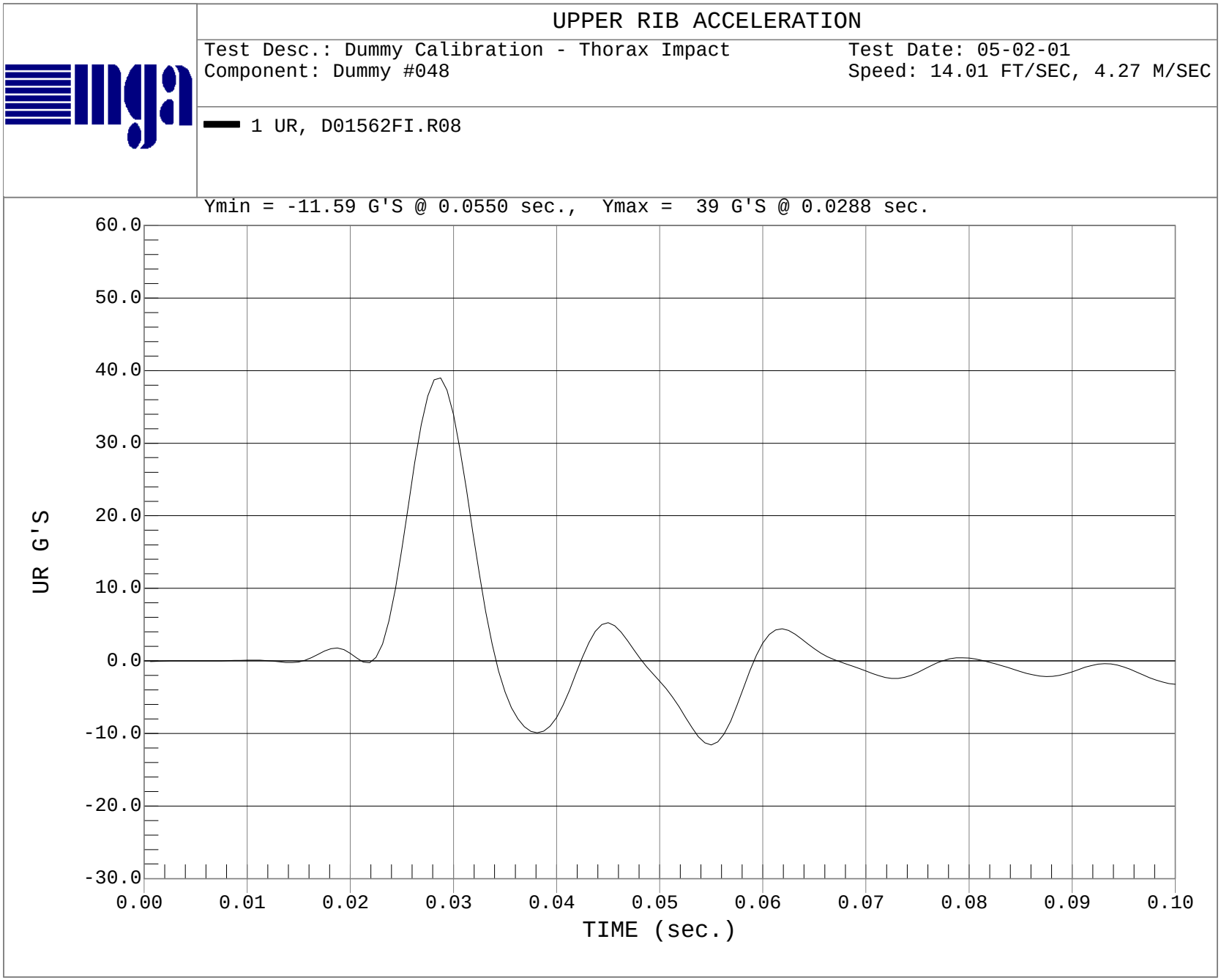
Test Number: D01562

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	47
Probe Speed (m/s)	4.27 – 4.33	4.27
Upper Rib (g's)	37 – 46	39
Lower Rib (g's)	37 – 46	39
Lower Spine (g's)	15 - 22	20

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____


UPPER RIB ACCELERATION
Test Desc.: Dummy Calibration - Thorax Impact
Test Date: 05-02-01
Component: Dummy #048
Speed: 14.01 FT/SEC, 4.27 M/SEC
1 UR, D01562FI.R08
Ymin = -11.59 G'S @ 0.0550 sec., Ymax = 39 G'S @ 0.0288 sec.
UR G'S
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
TIME (sec.)

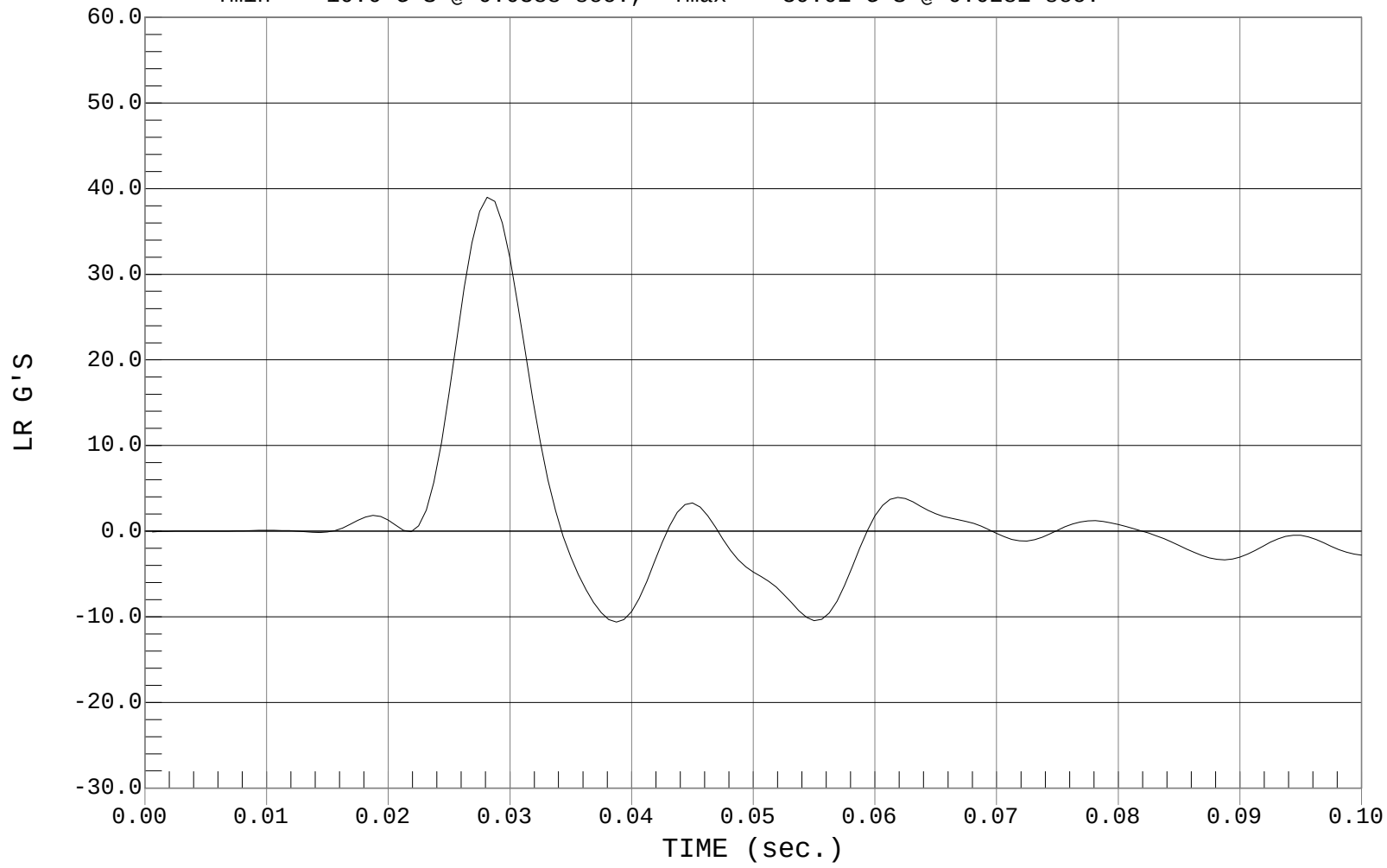
LOWER RIB ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #048

Test Date: 05-02-01
Speed: 14.01 FT/SEC, 4.27 M/SEC

1 LR, D01562FI.R09

Ymin = -10.6 G'S @ 0.0388 sec., Ymax = 39.01 G'S @ 0.0281 sec.



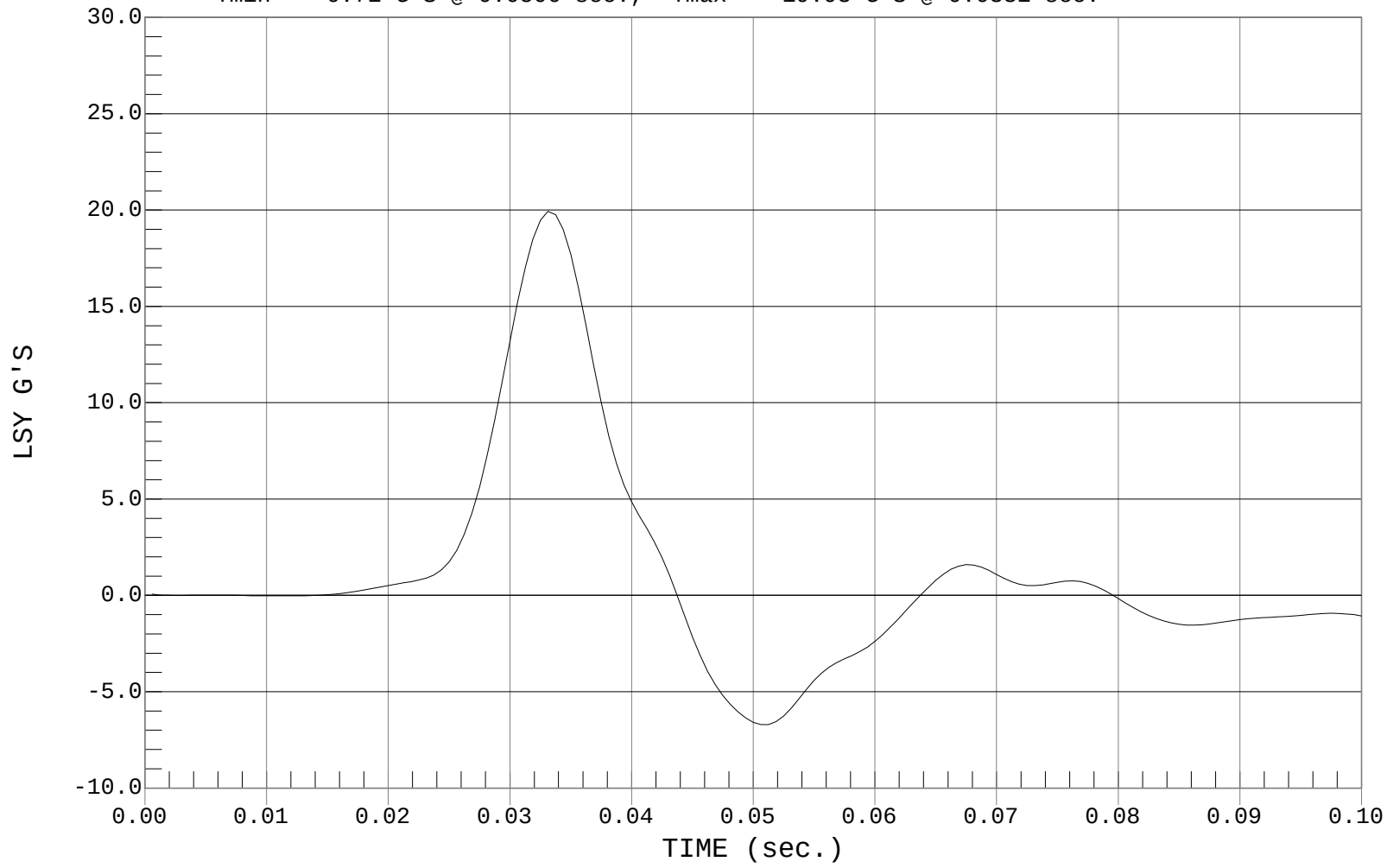
LOWER SPINE ACCELERATION

Test Desc.: Dummy Calibration - Thorax Impact
Component: Dummy #048

Test Date: 05-02-01
Speed: 14.01 FT/SEC, 4.27 M/SEC

1 LSY, D01562FI.R10

Ymin = -6.71 G'S @ 0.0506 sec., Ymax = 19.93 G'S @ 0.0331 sec.



MGA RESEARCH CORPORATION

PELVIS IMPACT TEST

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 048

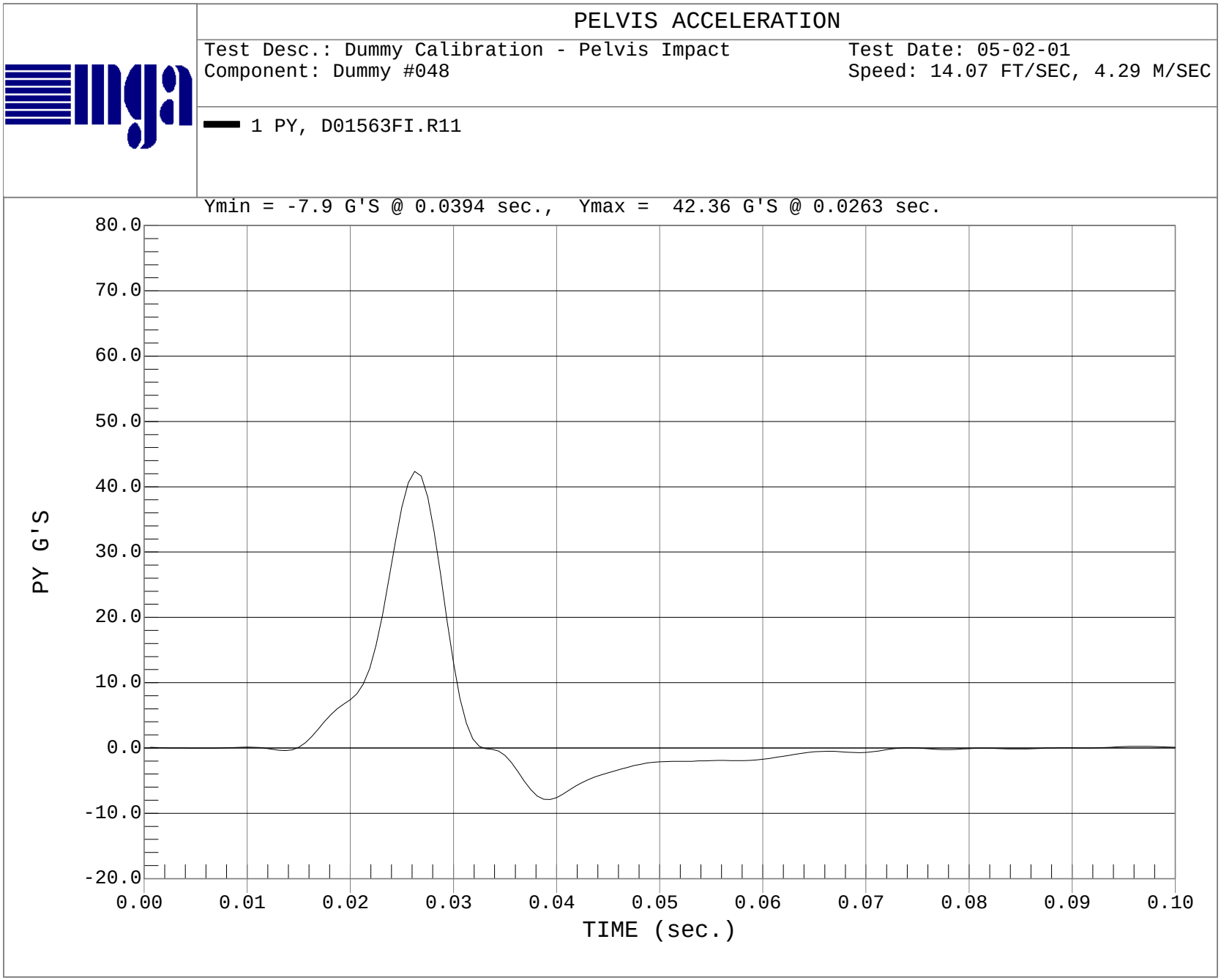
Test Number: D01563

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	20.9
Relative Humidity (%)	10 – 70	46
Probe Speed (m/s)	4.27 – 4.33	4.29
Pelvis Acceleration (g's)	40 – 60	42

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____


PELVIS ACCELERATION
Test Desc.: Dummy Calibration - Pelvis Impact
Test Date: 05-02-01
Component: Dummy #048
Speed: 14.07 FT/SEC, 4.29 M/SEC
1 PY, D01563FI.R11
Ymin = -7.9 G'S @ 0.0394 sec., Ymax = 42.36 G'S @ 0.0263 sec.
PY G'S
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
TIME (sec.)

MGA RESEARCH CORPORATION

ABDOMINAL COMPRESSION TEST (PRELOAD = 10 LBS)

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 048

Test Number: D01564

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.1
Relative Humidity (%)	10 – 70	43
Force @ 12.7 mm	104 – 162	135
Force @ 19 mm	163 – 222	184
Force @ 25.4 mm	222 – 280	247
Force @ 33 mm	325 - 391	337

TEST MEETS SPECIFICATIONS

Technician: _____

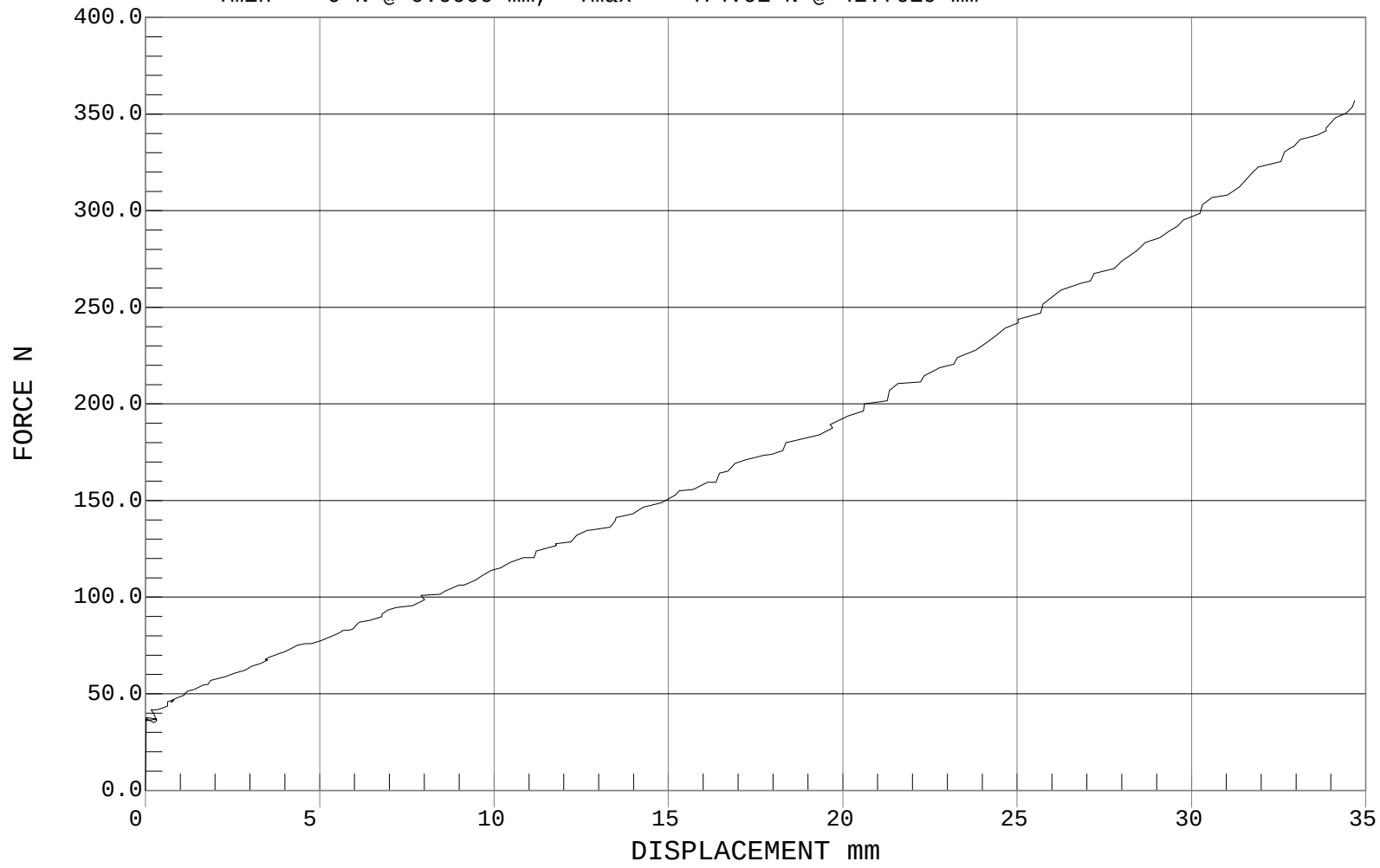
Approved By: _____

ABDOMEN COMPRESSION

Test Desc.: DUMMY CALIBRATION - ABDOMEN COMPRESSION Test Date: 05-02-01
Component: DUMMY # 048 Speed: 0.00 FT/SEC, 0.00 M/SEC

1 FORCE, D01564FC.F16

Ymin = 0 N @ 0.0000 mm, Ymax = 474.01 N @ 42.7619 mm



MGA RESEARCH CORPORATION

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

Date: 5/2/01

Dummy Serial Number: 048

Test Number: D01565

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.1
Relative Humidity (%)	10 – 70	43
Force @ 0°	0 – 26.7	0
Force @ 20°	97.9 – 151.2	100.9
Force @ 30°	151.2 – 204.6	169.5
Force @ 40°	204.6 – 258.0	209.9
Return Angle	12° maximum	2

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

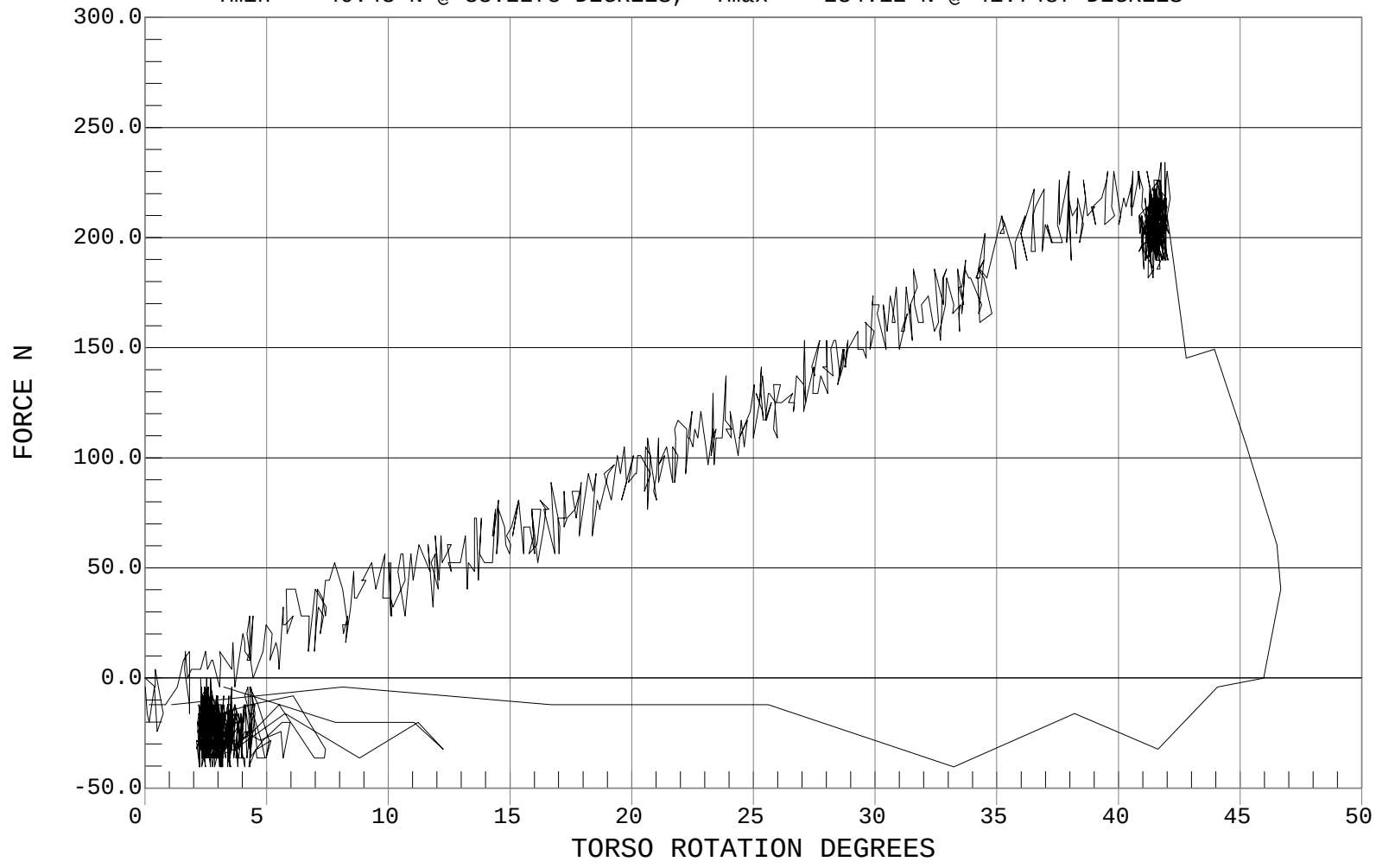
LUMBAR FLEXION

Test Desc.: DUMMY CALIBRATION - LUMBAR FLEXION
Component: DUMMY # 048

Test Date: 05-02-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 FORCE, D01565FC.F14

Ymin = -40.43 N @ 33.2275 DEGREES, Ymax = 234.12 N @ 41.7487 DEGREES



DUMMY INSPECTION CHECKLIST

Type: Side Impact Dummy

Dummy Serial Number: 048

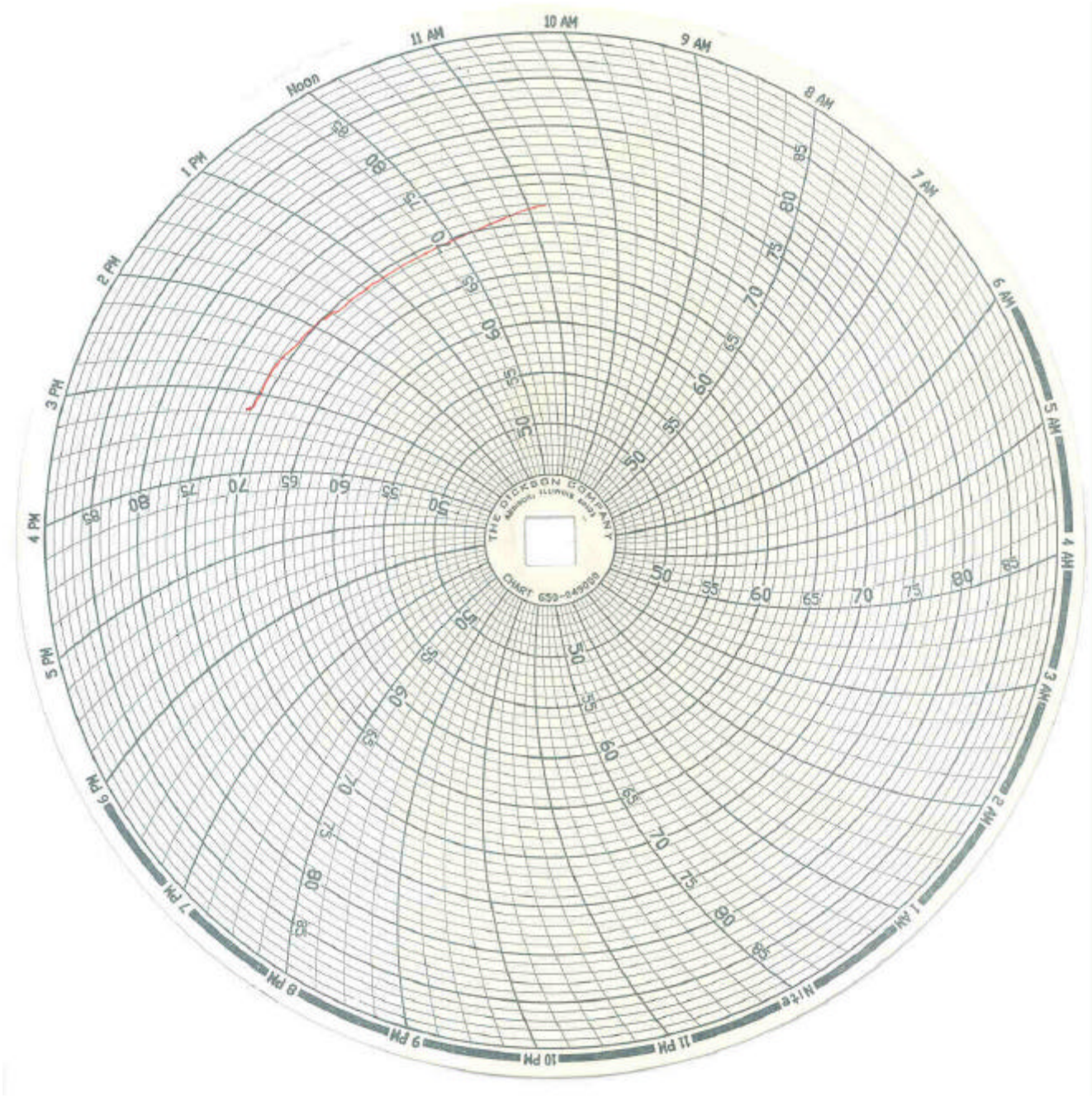
Inspected By: Tim Michnay

Date: 5/2/01

Part	Items Checked	Comments
Skin	visual inspection	OK
Head	visual, ballast, accelerometer mount	OK
Neck	visual	OK
Spine box	visual, ballast, weldment, accelerometer mount	OK
Rib cage	visual, measure	OK
Sternum	visual	OK
Lumbar spine	visual	OK
Abdomen	visual	OK
Pelvis	visual, palpate, accelerometer mount	OK
Upper legs	visual	OK
Knees	visual	OK
Lower legs	visual, range of motion	OK
Ankles	visual, range of motion	OK
Feet	visual, range of motion	OK
Joints	1 to 2 g range	OK
Other		

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

VEHICLE AND DUMMY TEMPERATURE



*Dummy was installed in the vehicle at 10:30am.

*Test time at 3:18pm.

APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

	INSTRUMENTS FOR RIGHT FRONT DUMMY NO. 049		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	AKAC4	Endevco	12/18/00
Lower Rib Y	AMTA3	Endevco	12/18/00
Lower Spine Y	AP1Y8	Endevco	12/15/00
Pelvis Y	J13851	Endevco	11/17/00
Upper Rib Redundant Y	J13642	Endevco	12/18/00
Lower Rib Redundant Y	AJ420	Endevco	12/18/00
Lower Spine Redundant Y	AMT78	Endevco	12/15/00
Pelvis Redundant Y	J13658	Endevco	11/17/00
Head Center of Gravity X	AH0D1	Endevco	3/22/01
Head Center of Gravity Y	AHWK8	Endevco	3/22/01
Head Center of Gravity Z	AH0M0	Endevco	3/22/01

	INSTRUMENTS FOR RIGHT REAR PASSENGER DUMMY NO. 048		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	AJ412	Endevco	1/8/01
Lower Rib Y	AJ417	Endevco	1/8/01
Lower Spine Y	ANAP1	Endevco	1/8/01
Pelvis Y	J13630	Endevco	1/8/01
Upper Rib Redundant Y	AHRP6	Endevco	1/8/01
Lower Rib Redundant Y	AGP20	Endevco	1/8/01
Lower Spine Redundant Y	ANAT6	Endevco	1/8/01
Pelvis Redundant Y	J13938	Endevco	1/8/01
Head Center of Gravity X	AJ9D8	Endevco	3/22/01
Head Center of Gravity Y	AHTF1	Endevco	3/22/01
Head Center of Gravity Z	AJ9D6	Endevco	3/22/01

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Moving Barrier CG X	I25-F09	Entran	12/13/00
Moving Barrier CG Y	I25-F07	Entran	12/13/00
Moving Barrier CG Z	I25-F08	Entran	12/13/00
Moving Barrier Rear Axle X	G13-B07	Entran	12/13/00
Moving Barrier Rear Axle Y	F11-G02	Entran	1/4/01
Right Mid A-Post Y	E10-F07	Entran	8/8/00
Right Lower A-Post Y	J04-F10	Entran	2/15/01
Right Mid B-Post Y	J10-E18	Entran	2/15/01
Right Lower B-Post Y	D05-R11	Entran	12/13/00
Rear Floorpan Above Axle X	A08-A08	Entran	2/8/01
Rear Floorpan Above Axle Y	A08-A02	Entran	2/8/01
Rear Floorpan Above Axle Z	I18-E18	Entran	12/13/00
Right Front Seat Track Y	A08-A14	Entran	2/8/01
Left Side Sill at Front Seat X	I14-D13	Entran	8/8/00
Left Side Sill at Front Seat Y	G01-J02	Entran	9/14/00
Left Side Sill at Front Seat Z	C25-A25	Entran	9/14/00
Left Side Sill at Rear Seat X	F20-G10	Entran	3/21/01
Left Side Sill at Rear Seat Y	H02-J14	Entran	2/7/01
Left Side Sill at Rear Seat Z	F07-A20	Entran	3/21/01
Right Side Sill at Front Seat Y	G13-F15	Entran	2/7/01
Right Side Sill at Rear Seat Y	A08-A10	Entran	2/7/01
Left Rear Occupant Compartment Y	A08-A09	Entran	2/8/01
Vehicle CG X	I25-J18	Entran	2/7/01
Vehicle CG Y	I18-G02	Entran	2/15/01
Vehicle CG Z	K16-X06	Entran	3/21/01

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

All Entran accelerometers are Model No. EGE-72