

H-637945

REPORT NUMBER: 201U-CAL-05-06

**SAFETY COMPLIANCE TESTING FOR FMVSS 201
OCCUPANT PROTECTION IN INTERIOR IMPACT
UPPER INTERIOR HEAD IMPACT PROTECTION**

**GM DAEWOO AUTO & TECHNOLOGY COMPANY
2005 SUZUKI FORENZA 4-DOOR SEDAN**

NHTSA NUMBER: C50505

CALSPAN TEST NUMBER: 8754-FMH-06

CALSPAN
TRANSPORTATION SCIENCES CENTER
P.O. BOX 400
BUFFALO, NEW YORK 14225



Test Date: May 16, 2005

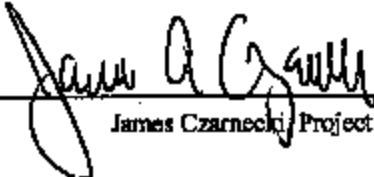
FINAL REPORT

PREPARED FOR:

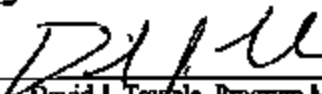
U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
Mail Code: NVS-220, Room 6111
400 Seventh Street, SW
Washington, DC 20590

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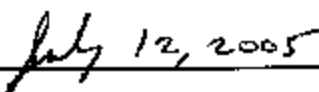
Prepared by:


James Czarniecki, Project Engineer

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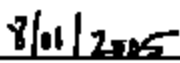

David J. Travale, Program Manager
Transportation Science Center

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COTR, Office of Vehicle Safety Compliance


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16. Abstract Compliance tests were conducted on the subject vehicle a 2005 Suzuki Forenza 4-door Sedan in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure TP-201U-01 for determination of FMVSS 201 compliance. Test failures identified were as follows in the table below:					
Target Point	Horizontal	Vertical	Velocity	HIC	HICd
None	-	-	-	-	-
None	-	-	-	-	-
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SECTION 1

PURPOSE AND TEST PROCEDURE

This head impact compliance test is part of the FMVSS 201 Upper Interior Head Impact Protection Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-04-C-01027. The purpose of this head impact compliance test was to determine whether the subject vehicle, a 2005 Suzuki Forenza 4-door Sedan, NHTSA No. C50505, meets the performance requirements of FMVSS 201, Occupant Protection in Interior Impact. The compliance test was conducted in accordance with the OVSC Laboratory Test Procedure No. TP-201U-01 dated April_03, 1998.

SECTION 2

SUMMARY OF UPPER INTERIOR HEAD IMPACTS

A 2005 Suzuki Forenza 4-door Sedan, NHTSA No.C50505, was impacted at various locations throughout its upper interior by a 4.54 kg 50th percentile headform. A total of twelve (12) impacts were performed in this test series. The target area impacts were chosen by the NHTSA Contracting Officers Technical Representative (COTR). A summary of test results can be found on data sheet 2-1. The twelve (12) area chosen for testing were:

AP3	AP1	BP4	BP1	SR2A
OP2	OP1	BP2	URBP	RP1
AP2	SR1			

The selected impact areas on the test vehicle appeared to comply with the performance requirements of FMVSS 201.

Five Free Motion Headforms (FMH), were used in this test series. All five FMH's were calibrated prior to and after the test series. Calibration information are included in Appendix B. Each FMH weighed 4.54 ± 0.5 kg and has an orthogonal tri-axis accelerometer pack mounted at the center of gravity (c.g.).

A total of three (3) channels of data for each target impact test are recorded on a Keyser-Threde data acquisition system. Data plots along with still photographs can be found in Section 3 of this report.

To document each target area impact test, one Weinberger high-speed video camera was placed at various locations to view the headform contact with the selected target area.

DATA SHEET 2-1

SUMMARY OF UPPER INTERIOR HEAD IMPACT TESTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

TARGET CODE	Target Coordinates						Approach Angles (degrees)		Velocity (kph)	FMH HIC	HIC(d)
	Driver Side			Passenger Side							
	X(mm)	Y(mm)	Z(mm)	X(mm)	Y(mm)	Z(mm)	Horizontal	Vertical			
AP1	2911.69	-501.10	1239.41	2913.63	506.02	1235.20	Relocated 1 circle		-	-	-
AP1_R1	2920.60	-515.58	1226.82	2925.49	517.47	1226.09	149°	32°	23.62	711.7	703.4
AP2	2832.82	-566.88	1152.66	2827.99	565.13	1151.49	217°	44°	23.36	436.7	495.8
AP3	2696.04	-593.91	1083.18	2691.74	596.70	1080.24	148°	43°	23.58	386.5	458
BP1	3404.46	-458.81	1307.01	3405.24	461.03	1306.85	90°	17°	23.46	791.6	763.7
BP2	3380.94	-553.38	1085.02	3377.64	553.21	1090.76	270°	0°	23.46	569.5	596
BP3	3359.67	-553.33	1091.96	3361.40	555.37	1091.57	-	-	-	-	-
BP4	3430.86	-636.71	984.43	3429.72	636.10	984.66	149°	-1°	23.46	618.6	633.1
FH1	2849.70	-389.27	1247.74	2857.08	398.87	1248.50	-	-	-	-	-
FH2	2842.36	-240.71	1257.46	2845.34	246.10	1258.31	-	-	-	-	-
OP1	4002.05	-447.93	1294.58	4004.15	449.20	1293.23	90°	20°	23.64	600	619.1
OP2	4125.23	-580.62	1108.75	4125.90	584.39	1108.47	90°	*-6°	23.55	470.3	521.2
RH	4174.36	-334.11	1287.40	4176.58	337.23	1285.65	-	-	-	-	-
RP1	4165.73	-472.09	1247.68	4170.57	472.59	1246.74	280°	19°	23.3	469.9	520.9
RP2	4304.71	-575.67	1098.90	4297.83	580.49	1100.09	-	-	-	-	-
SR1	3062.60	-472.38	1280.94	3064.38	489.24	1268.06	Driver side relocated 2 / Passenger side 1 circle		-	-	-
SR1_R2 / R1	3061.81	-495.59	1245.06	3065.03	500.55	1249.11	270°	19°	23.45	511.2	552.1
SR2A	3212.30	-470.41	1306.14	3213.61	489.49	1296.41	Driver side relocated 2 / Passenger side 1 circle		-	-	-
SR2A_R2 / R1	3212.25	-482.44	1264.51	3215.48	486.10	1269.24	90°	25°	23.40	684.7	682.9
SR2B	3102.84	-473.30	1293.79	3102.77	490.31	1289.95	Driver side relocated 2 / Passenger side 1 circle		-	-	-
SR2B_R2 / R1	3103.92	-486.18	1251.93	3107.09	486.90	1264.50	-	-	-	-	-
SR3F	3703.21	-480.08	1260.33	3701.76	483.22	1261.28	-	-	-	-	-

SR3R	3852.91	-486.73	1242.43	3854.21	489.46	1243.79	-	-	-	-	-
URAP	3038.64	-368.61	1281.98	3043.96	371.60	1285.22	-	-	-	-	-
URBP	3411.77	-362.96	1344.70	3424.61	369.79	1344.41	270°	44°	23.78	885.8	834.7
URM	3538.63	0.85	1338.01	3540.50	0.56	1338.26	-	-	-	-	-
URRP	4032.48	-369.26	1316.10	4033.39	368.07	1315.50	-	-	-	-	-
URRSR	3753.44	-355.63	1341.79	3742.50	359.85	1342.49	-	-	-	-	-

*HIC(d)=0.75446(Free Motion Headform HIC)+166.4

NOTES:

AP3 – TRIM POPPED OFF CONNECTORS LOCATIONS WITH A SMALL CRACK NEAR TARGET LOCATION

BP4 – TRIM CRACKED NEAR TARGET LOCATION

BP2 – ANCHORAGE COVER CRACKED UPON IMPACT

URBP – UPPER B-PILLAR TRIM CRACKED UPON HITTING UPPER ROOF TARGET

AP2 – TRIM CRACKED NEAR TARGET LOCATION

SR1 – SUNGLASS HOLDER CRACKED UPON IMPACT

DATA SHEET 2-2

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:									
Year/Make/Model/Body Style:				2005 Suzuki Forenza 4-door Sedan					
VIN:				KLSJD56Z15K080227					
Month & Year of Manufacture:				08/04 (SEE CERTIFICATION LABEL)					
Vehicle Body Color:				Silver					
Engine Data:	4	Cylinders:	-	CID:	2.0	Liters:	-	cc	
Engine Placement:		x	Longitudinal;		or		-	Lateral	
Transmission:	5	Speed:	x	Manual;	-	Automatic;	-	Overdrive	
Final Drive:	-	Rear Wheel Drive;	x	Front Wheel Drive;	-	Four Wheel Drive			
Odometer Reading:		161	km						
Options:	x	A/C;	x	Power Steering;	x	Pwr.Brakes;	x	Pwr. Windows	
Interior Trim Information :									
1. Seat belt anchorages located on B-pillars.									
2. Sun glass holder on driver side rail.									
3. Grab handles on passenger front side rail and both rear outboard seating positions.									

DATA FROM TIRE PLACARD:									
Tire Pressure (at capacity);				210		kPa FRONT			
				210		kPa REAR			
Recommended Tire Size:				P195/55R15					
Tires on Test Vehicle:				P195/55R15		Manufacturer:		Hankook	
Vehicle Capacity Data:									
Number of Occupants:		2	Front;	3	Rear;	-	3rd Seat;	5	Total
Type of Front Seats:		x	Bucket;	-	Bench;	-	Split Bench		
Type of Front Seat Back:		-	Fixed;	x	Adjustable with	x	Lever or	-	Knob
Vehicle Capacity Weight (VCW)=				396		kg (A)			
No. of Occupants x 68 kg. =				340		kg (B)			
Rated Cargo/Luggage Weight (RCLW) =				56		kg (A-B) Max. RCLW = 136 kg.			

DATA SHEET 2-2

GENERAL TEST AND VEHICLE PARAMETER DATA (cont.)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:					
Left Front	=	386	kg	Left Rear	= 247 kg
Right Front	=	387	kg	Right Rear	= 246 kg
TOTAL FRONT	=	773	kg	TOTAL REAR	= 493 kg
% of Total Weight	=	61.0	%	% of Total Weight	= 39.0 %
TOTAL WEIGHT	=	1266	kg		

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:		
Total Test Vehicle Delivered Weight=	1266	kg (A)
+ Rated Cargo/Luggage Weight =	56	kg (B)
TEST VEHICLE TARGET WEIGHT =	1322	kg (A+B)

WEIGHT OF TEST VEHICLE (FULLY LOADED):					
Left Front	=	381	kg	Left Rear	= 277 kg
Right Front	=	388	kg	Right Rear	= 270 kg
TOTAL FRONT	=	769	kg	TOTAL REAR	= 547 kg
% of Total Weight	=	58.4	%	% of Total Weight	= 41.6 %
TOTAL TEST WEIGHT	=	1316			
Weight of vehicle secured in test vehicles cargo area	=	50	kg		

TEST VEHICLE ATTITUDE (all dimensions in millimeters):				
AS DELIVERED:	Left Front	670	Left Rear	667
	Right Front	670	Right Rear	671
FULLY LOADED:	Left Front	670	Left Rear	653
	Right Front	671	Right Rear	655
Test Vehicle Wheelbase:		2596		millimeters

TEST VEHICLE PITCH AND ROLL ANGLES:				
AS DELIVERED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	0.0	Front Bumper	0.0
	Right Door Sill	0.0	Rear Bumper	0.0
FULLY LOADED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.4	Front Bumper	0.0
	Right Door Sill	↑0.3	Rear Bumper	0.0
AS TESTED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.3	Front Bumper	0.0
	Right Door Sill	↑0.1	Rear Bumper	0.0

DATA SHEET 2-3
APPROACH ANGLE LIMITS

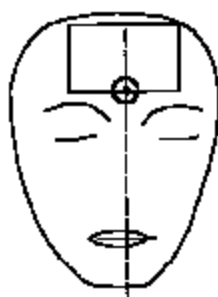
Left Side					Right Side				
Target Code	Horizontal Angles (deg.)		Vertical Angles (deg.)		Target Code	Horizontal Angles (deg.)		Vertical Angles (deg.)	
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum
AP1	204	255	-5	32	AP1	105	156	-5	32
AP2	204	255	-5	44	AP2	105	156	-5	44
AP3	204	255	-5	43	AP3	105	156	-5	43
BP1	203	287	-10	17	BP1	73	157	-10	17
BP2		270	0	0	BP2		90	0	0
BP3		270	-10	4	BP3		90	-10	4
BP4	203	287	-10	-1	BP4	73	157	-10	-1
OP1		270	-10	20	OP1		90	-10	20
OP2		270	-10	-6	OP2		90	-10	-6
RP1	270	345	-10	19	RP1	15	90	-10	20
RP2	270	345	-10	17	RP2	15	90	-10	17
FH1		180	0	50	FH1		180	0	50
FH2		180	0	50	FH2		180	0	50
RH		360	0	50	RH		0	0	50
SR1		270	0	19	SR1		90	0	28
SR2A		270	0	19	SR2A		90	0	25
SR2B		270	0	19	SR2B		90	0	36
SR3		270	0	29	SR3		90	0	29
URAP		ANY	0	45	URAP		ANY	0	45
URBP		ANY	0	44	URBP		ANY	0	42
URRSR		ANY	0	40	URRSR		ANY	0	40
URRP		ANY	0	50	URRP		ANY	0	50

Note : BP2 target location – Seat belt anchorage

DATA SHEET 2-4

SUMMARY TARGET IMPACT LOCATION ON FMH

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver



RIGHT SIDE OF FACE

TARGET	Distance Above Point O (mm)	Distance Over From Pt. O (mm)
AP3	22	5R
AP1	22	21R
BP4	18	10L
BP1	22	4R
SR2A	8	3L
OP2	8	35L
OP1	31	8R
BP2	13	7L
URBP	43	6L
RP1	40	0
AP2	21	5L
SR1	14	12L

SECTION 3
SUMMARY OF TEST RESULTS AND DATA PLOTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	06/04 (SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	01
Test Date:	05/13/05
Target Location:	A-PILLAR
Target Code:	AP3
Horizontal Impact Angle:	148°
Vertical Impact Angle:	43°
Ambient Temperature:	23.1C°
Relative Humidity:	20.9
Time of Impact:	9:30
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	5	☒ mm right	☐ mm left
On Centerline	22	mm up	



POST-IMPACT AP3 HEADFORM

Free Motion HIC	386.5
HIC(d)	458.0
Impact Velocity (kph)	23.58
HIC T1 (msec)	1.1
HIC T2 (msec)	7.3

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - AP3

FMH Headform 1255

Location: AP3

Test Date: May 13, 2005

Work File: AP3

TEST RESULTS

Lab Temperature: 23.1 C

HICd: 458.0

Lab Humidity: 20.9 %

HIC (36ms): 386.5

Velocity at Impact: 23.58 KPH

t1: 1.1 msec

t2: 7.3 msec

Free Flight Distance: 215.74 mm

Duration: 6.2 msec

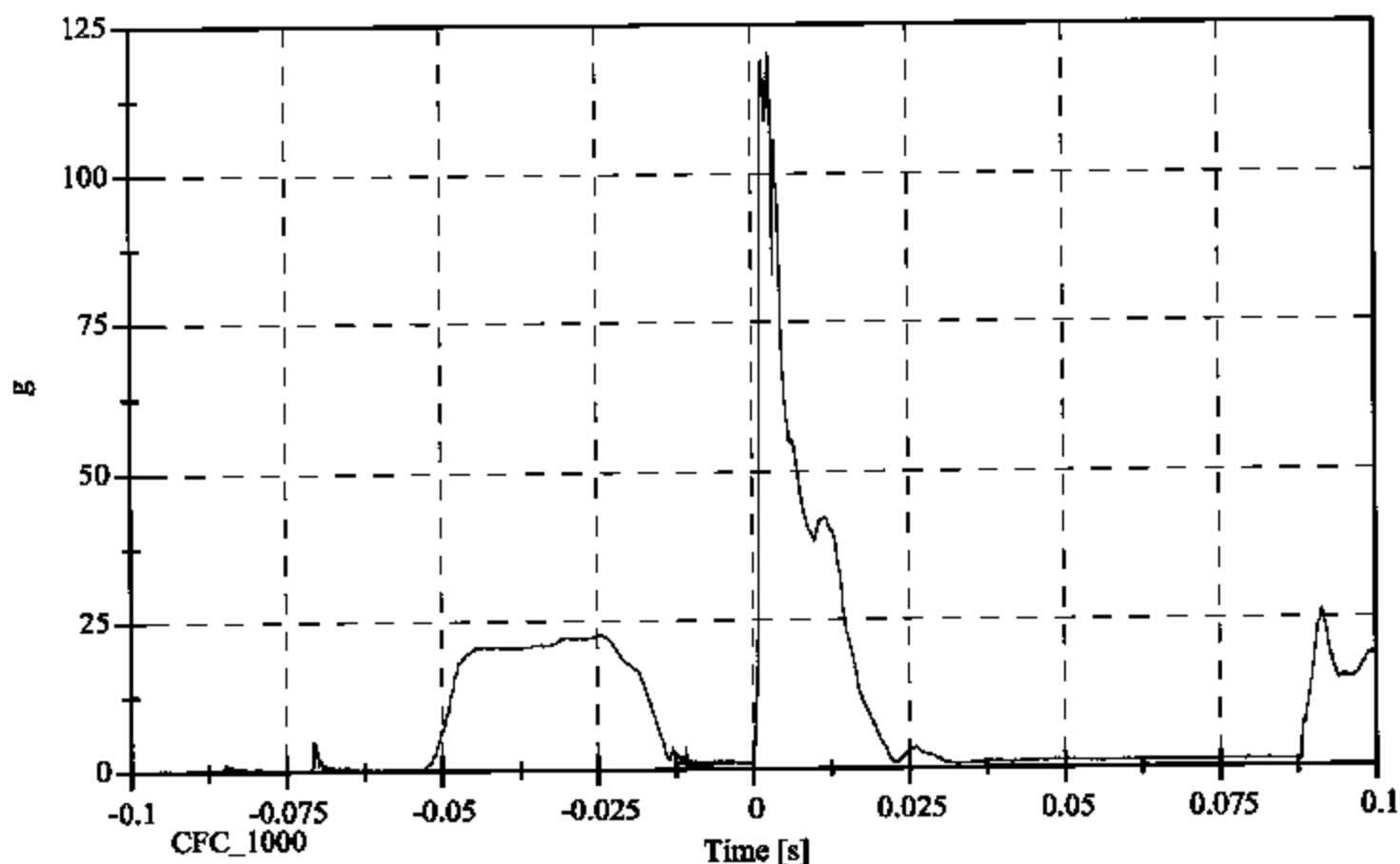
Maximum: 120.3 g

Average Acceleration: 9.5 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza
Headform Resultant

Max: 120.3 [g] at 0.003 [s]

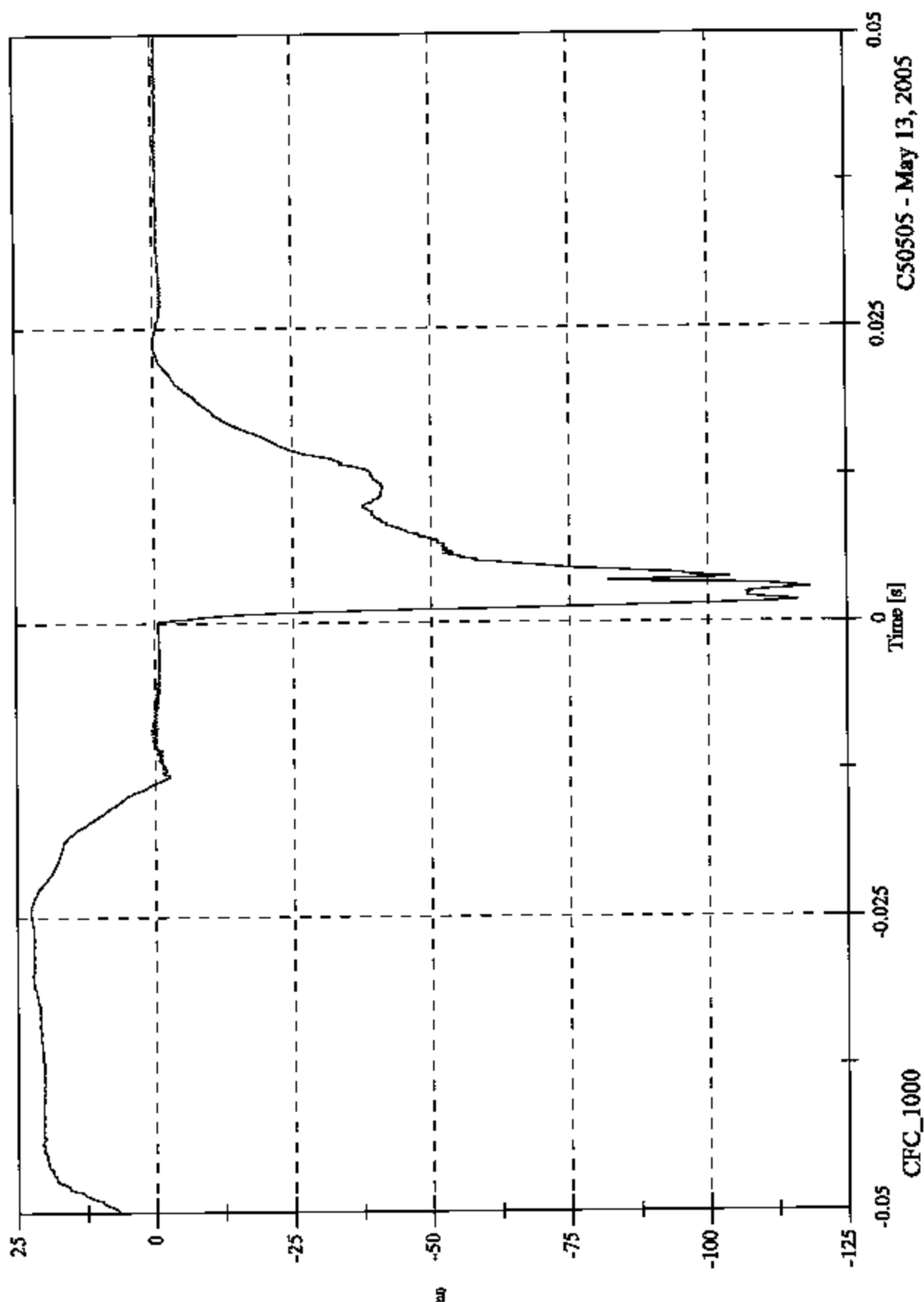
Min: 0.0 [g] at -0.093 [s]



Max: 22.6 [g] at -0.025 [s]
Min: -118.3 [g] at 0.003 [s]

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration



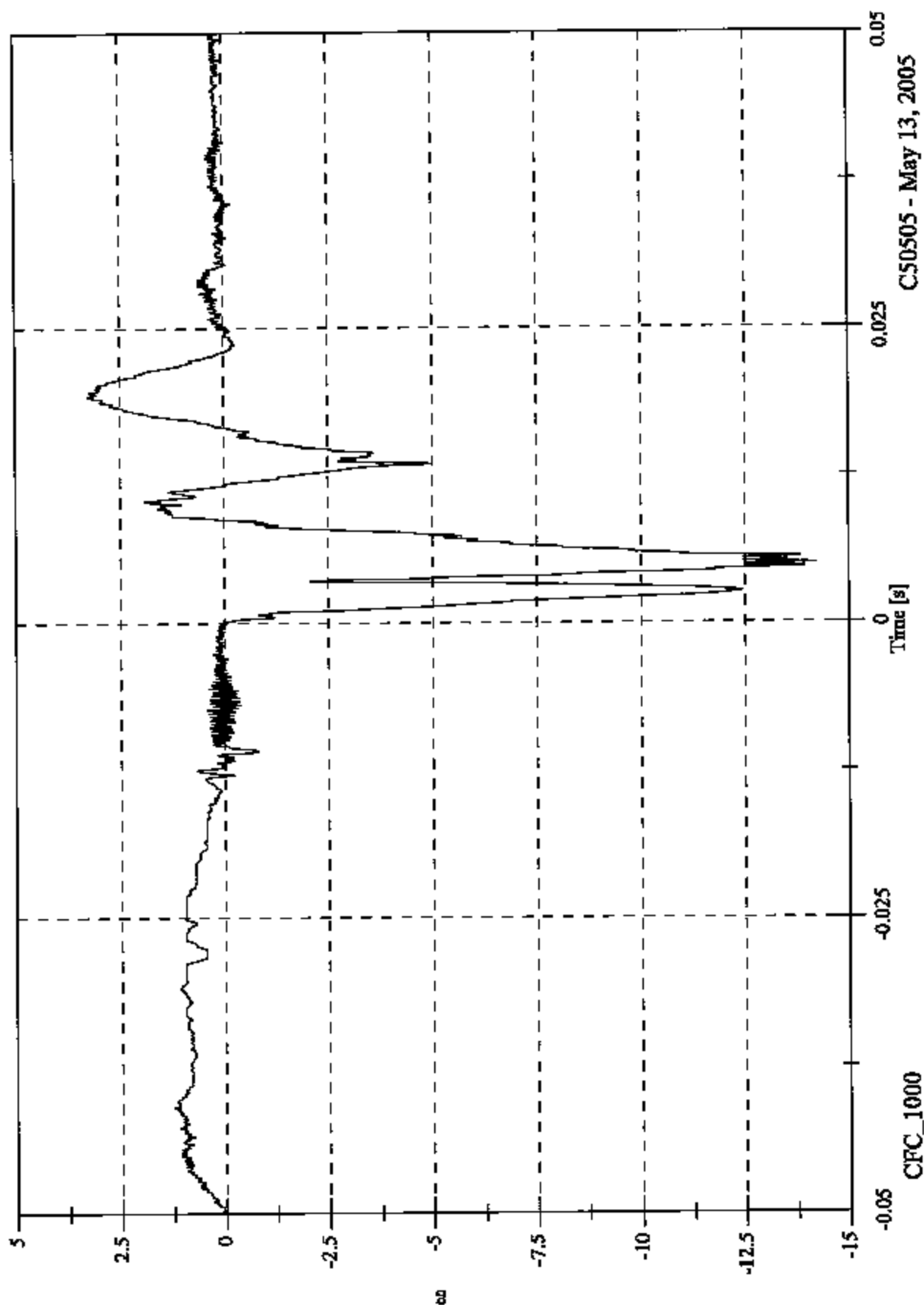
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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 3.3 [g] at 0.019 [s]

Min: -14.2 [g] at 0.005 [s]

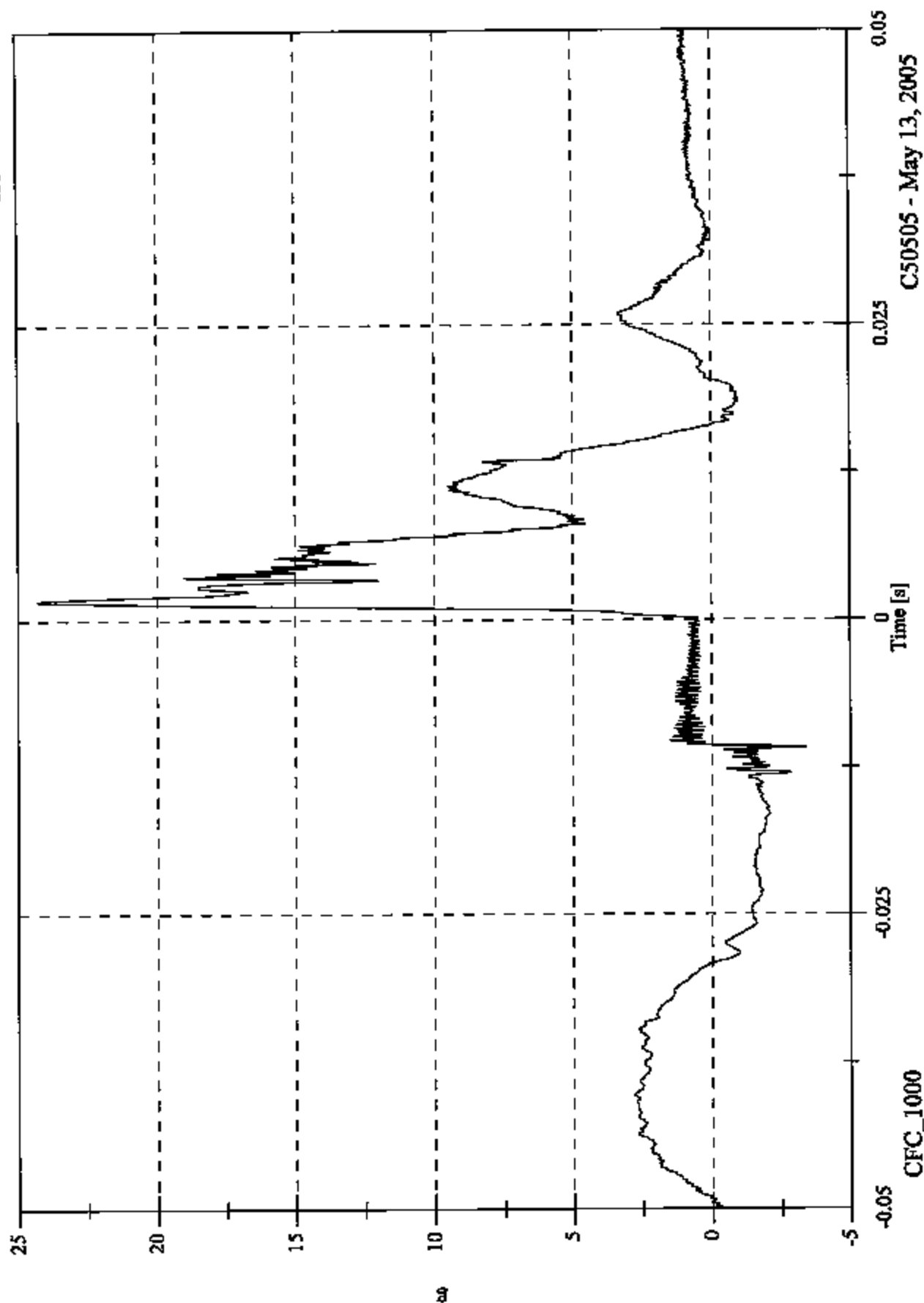


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 24.3 [g] at 0.002 [s]

Min: -3.4 [g] at -0.011 [s]



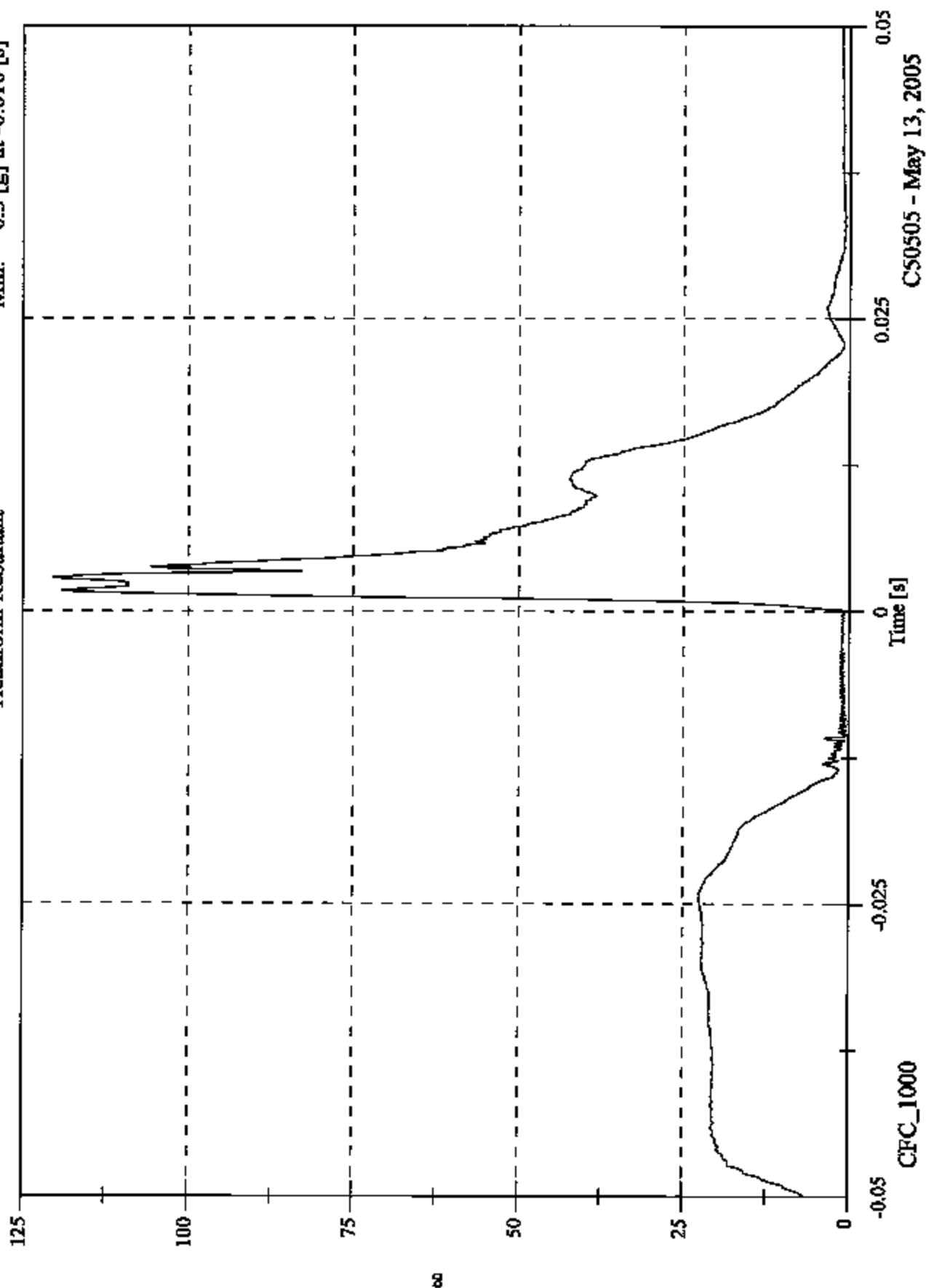
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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 120.3 [g] at 0.003 [s]

Min: 0.3 [g] at -0.010 [s]



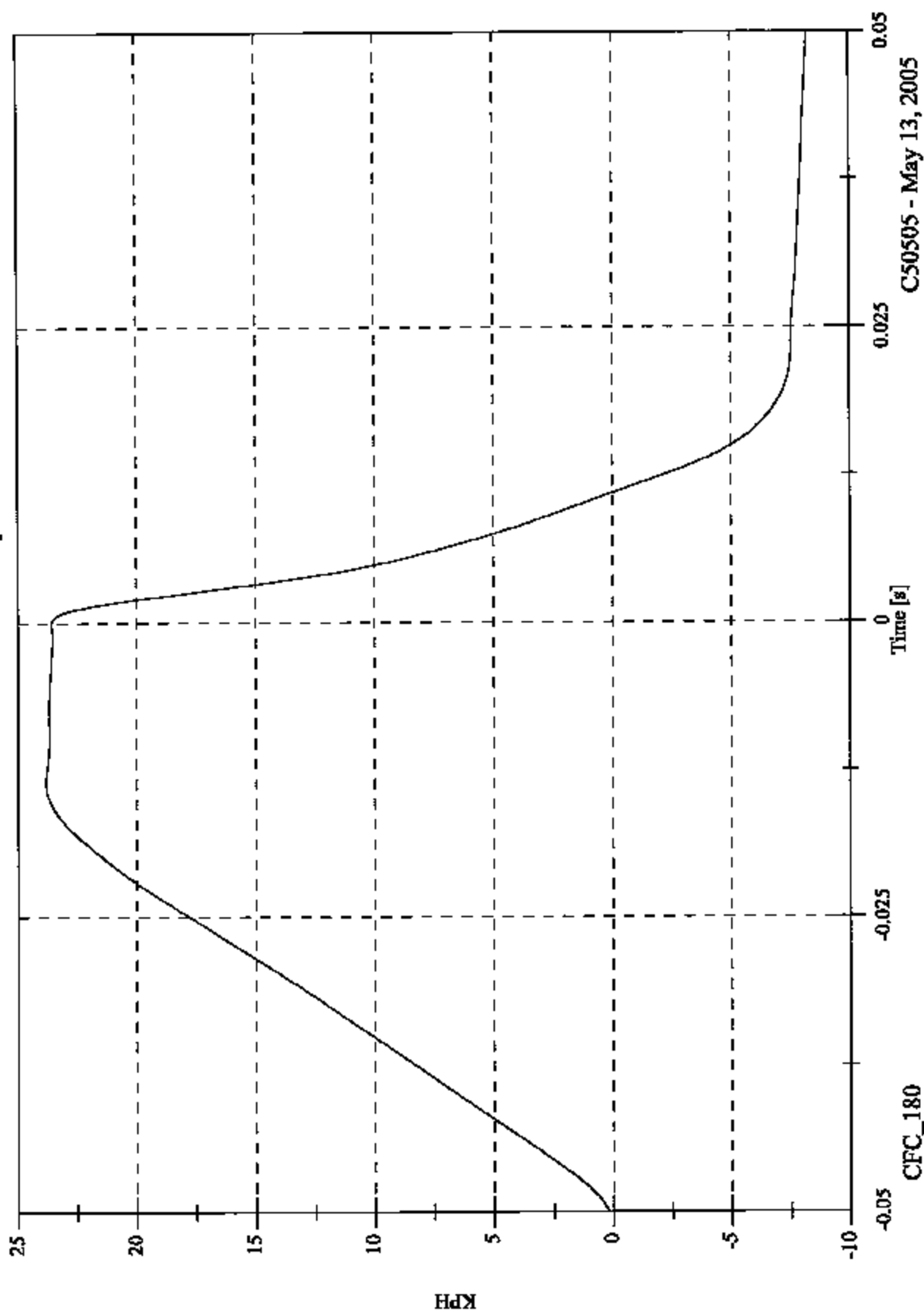
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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.8 [KPH] at -0.014 [s]

Min: -8.2 [KPH] at 0.050 [s]

Headform Velocity



CFC_180

Time [s]

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PRE-IMPACT AP3

8754-FMH-06



F MVSS 201U POST TEST
05 SUZUKI FORENZA AP3
13 MAY 05 C50505
HOR 148 VER 43

POST-IMPACT AP3

8754-FMH-06

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	02
Test Date:	05/13/05
Target Location:	A-PILLAR
Target Code:	AP1
Horizontal Impact Angle:	149°
Vertical Impact Angle:	32°
Ambient Temperature:	22.3C°
Relative Humidity:	21.4
Time of Impact:	10:15
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	21	☒	mm right	☐ mm left
On Centerline	22		mm up	



POST-IMPACT AP1 HEADFORM

Free Motion HIC	711.7
HIC(d)	703.4
Impact Velocity (kph)	23.62
HIC T1 (msec)	2.8
HIC T2 (msec)	10.6

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - AP1

FMH Headform 0642

Location: AP1

Test Date: May 13, 2005

Work File: AP1

TEST RESULTS

Lab Temperature: 22.3 C

HICd: 703.4

Lab Humidity: 21.4 %

HIC (36ms): 711.7

Velocity at Impact: 23.62 KPH

t1: 2.8 msec

t2: 10.6 msec

Free Flight Distance: 210.94 mm

Duration: 7.8 msec

Maximum: 129.6 g

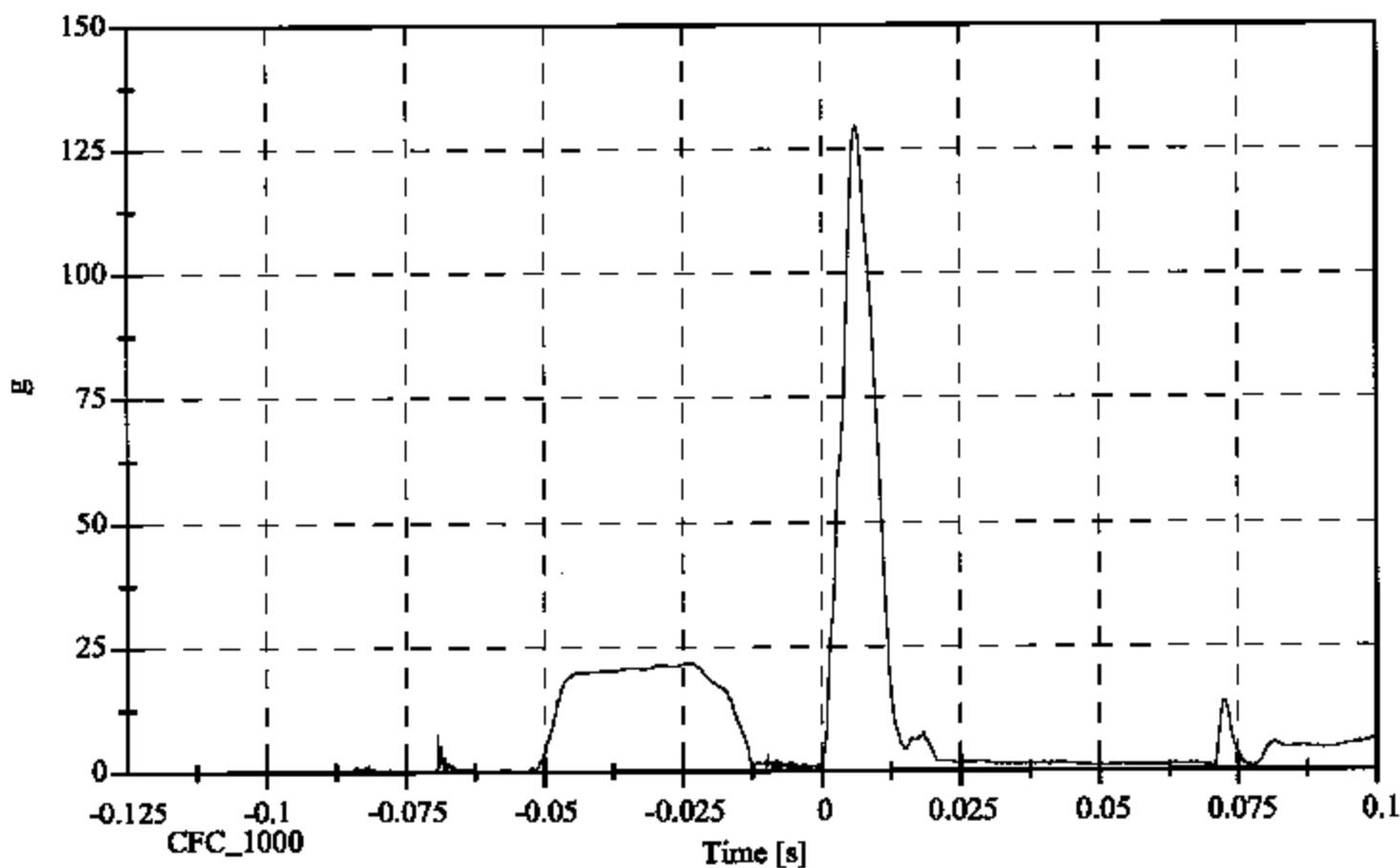
Average Acceleration: 9.2 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 129.6 [g] at 0.006 [s]

Headform Resultant

Min: 0.0 [g] at -0.055 [s]

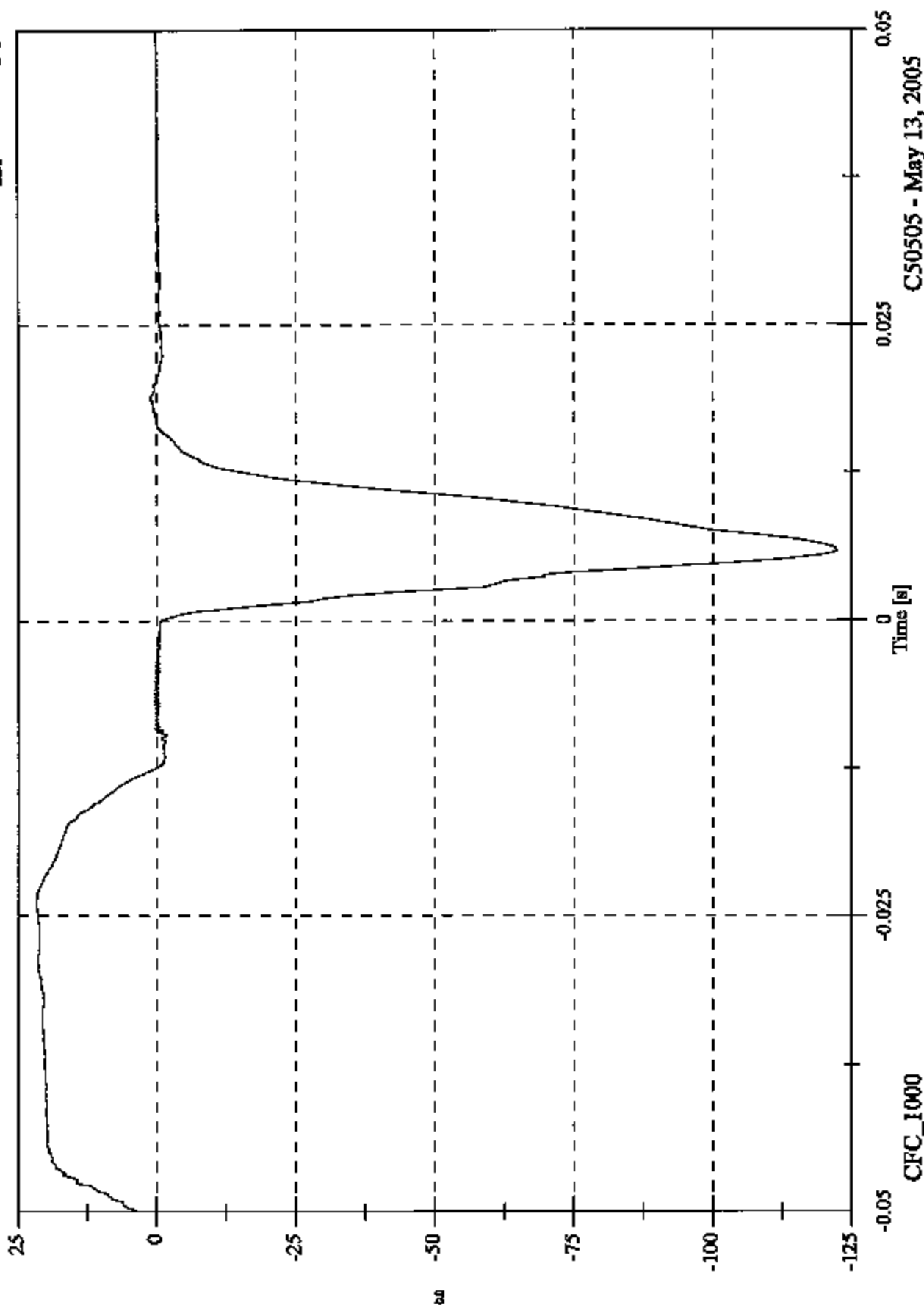


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 21.7 [g] at -0.024 [s]

Min: -122.3 [g] at 0.006 [s]



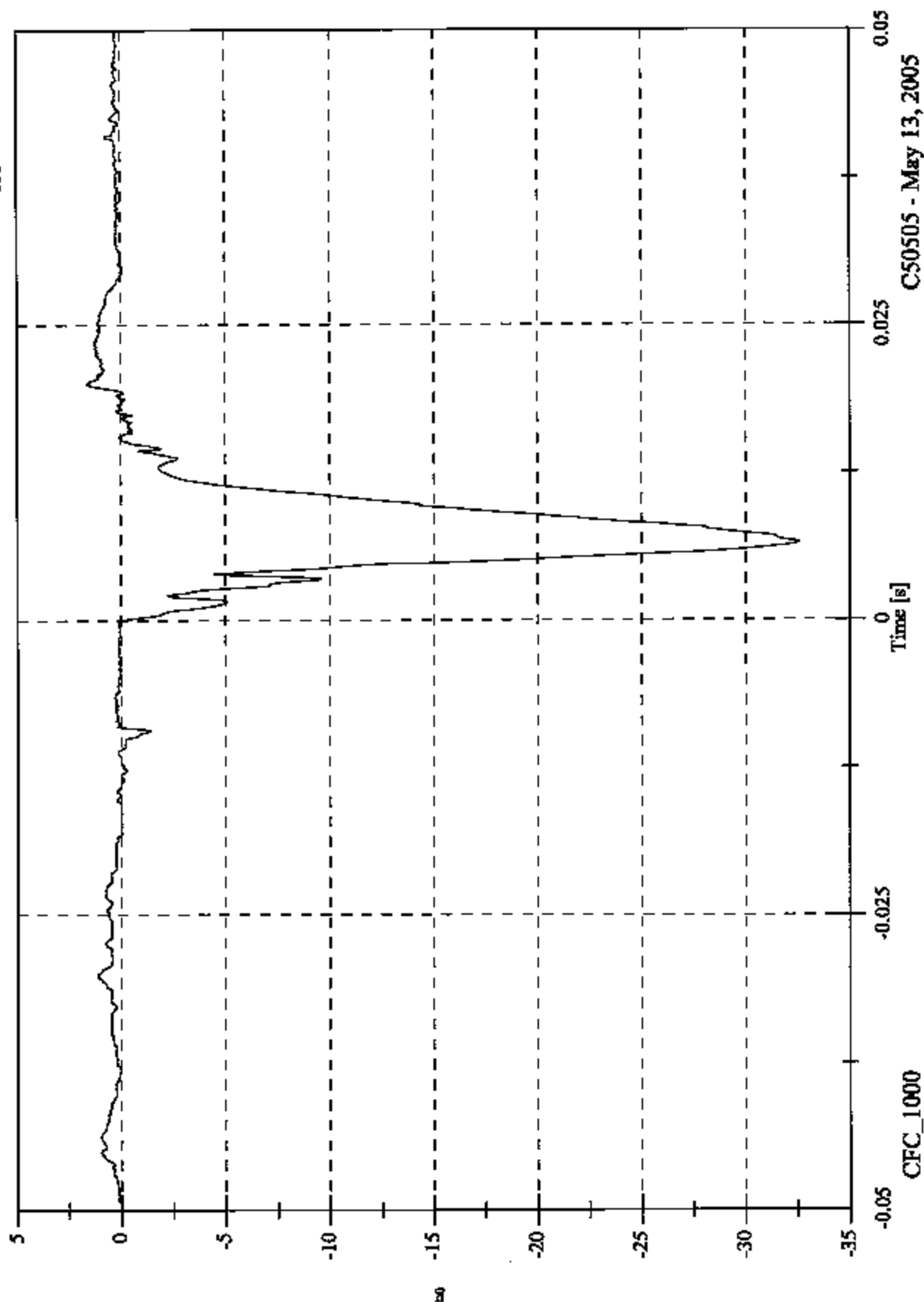
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 1.7 [g] at 0.020 [s]

Min: -32.6 [g] at 0.007 [s]



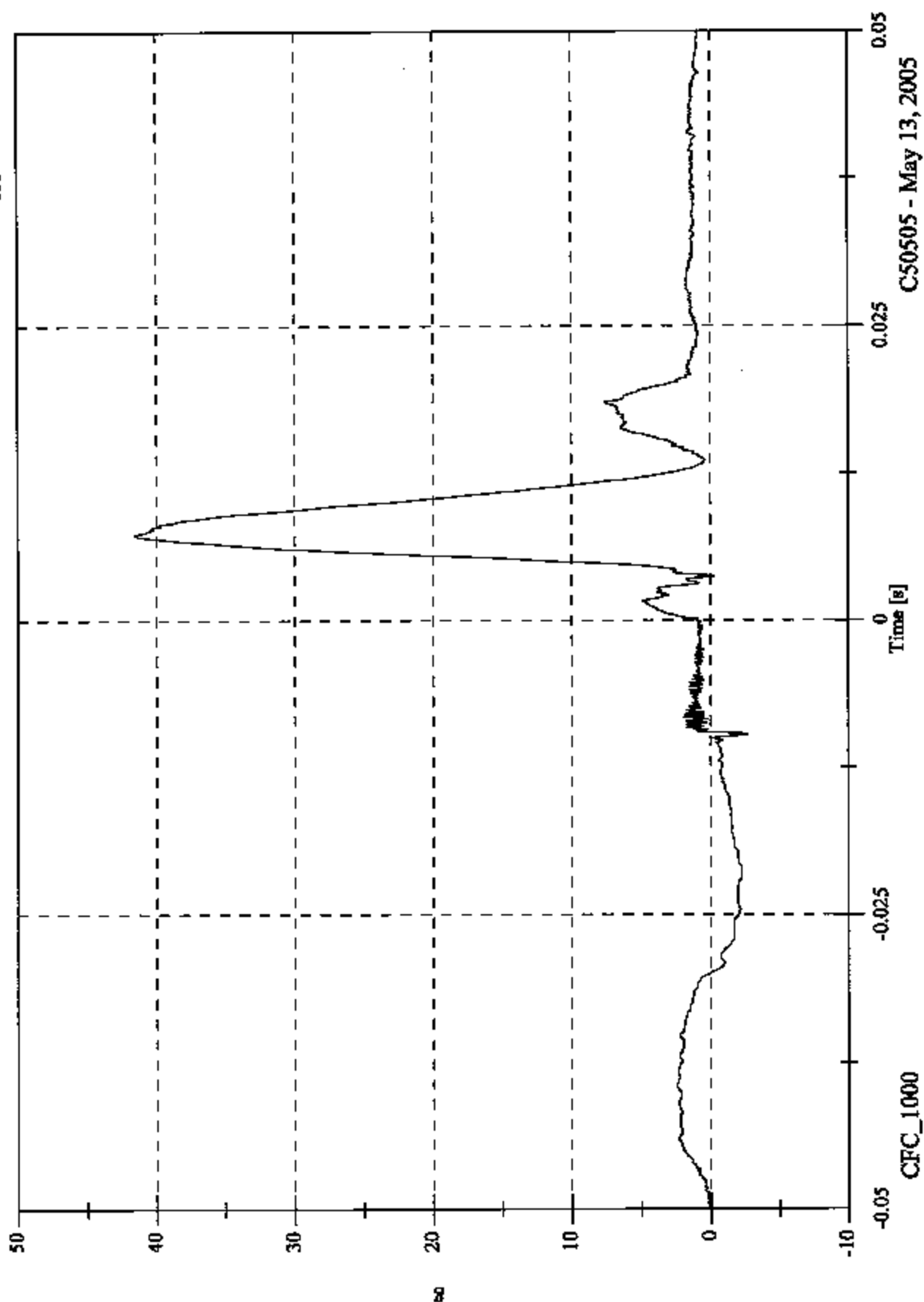
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 41.6 [g] at 0.007 [s]

Min: -2.6 [g] at -0.010 [s]



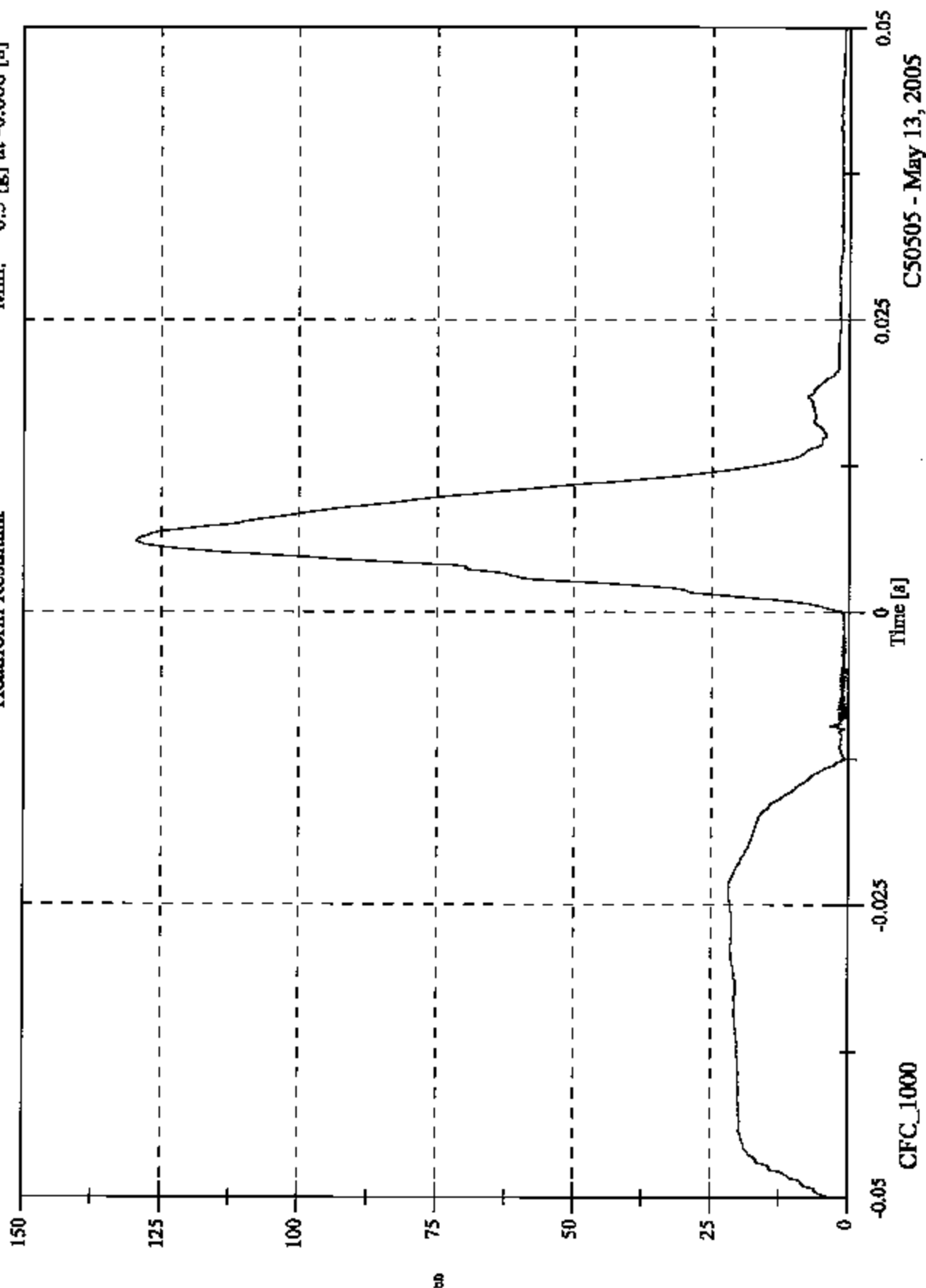
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 129.6 [g] at 0.006 [s]

Min: 0.3 [g] at -0.008 [s]

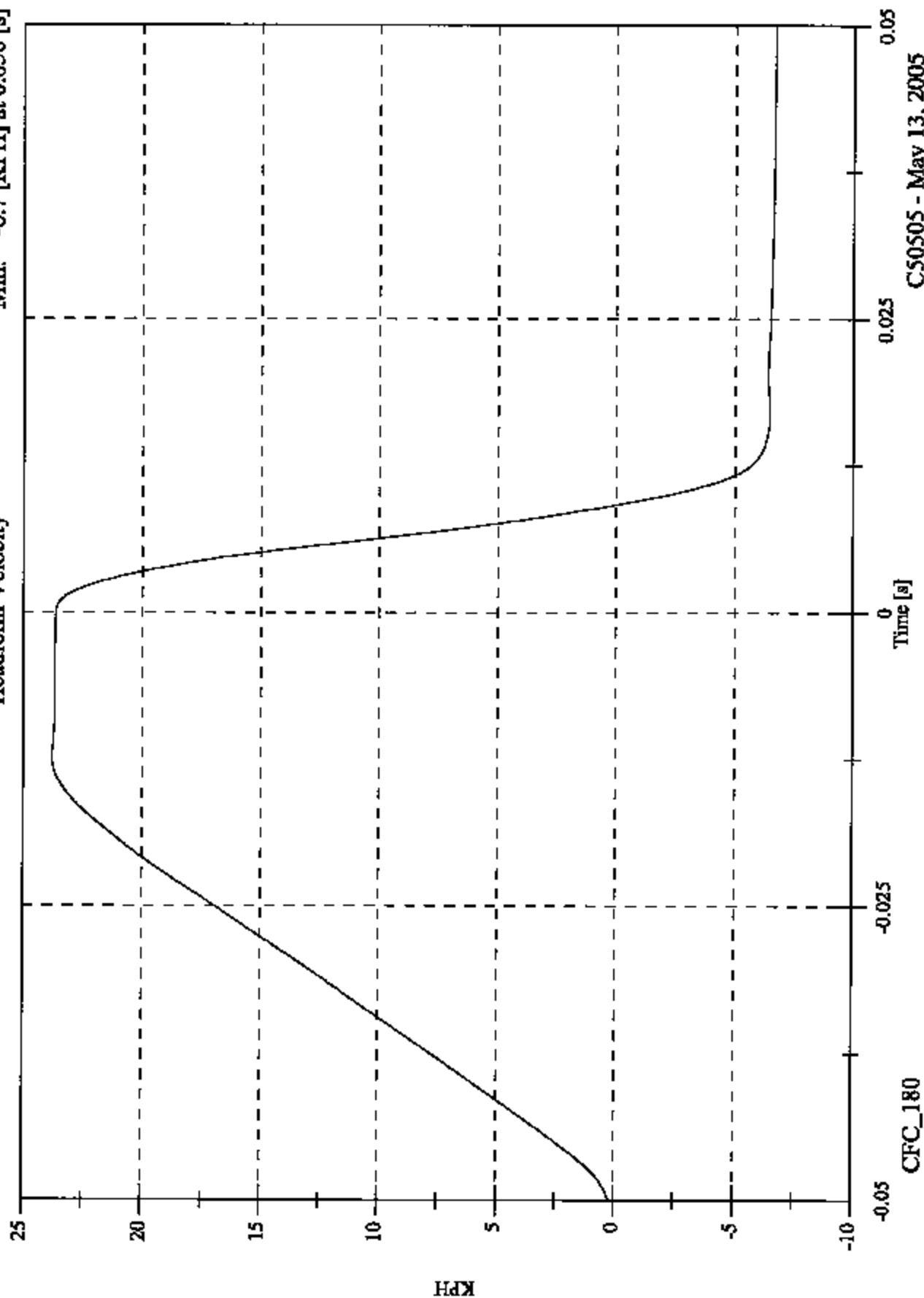


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.8 [KPH] at -0.012 [s]

Min: -6.7 [KPH] at 0.050 [s]

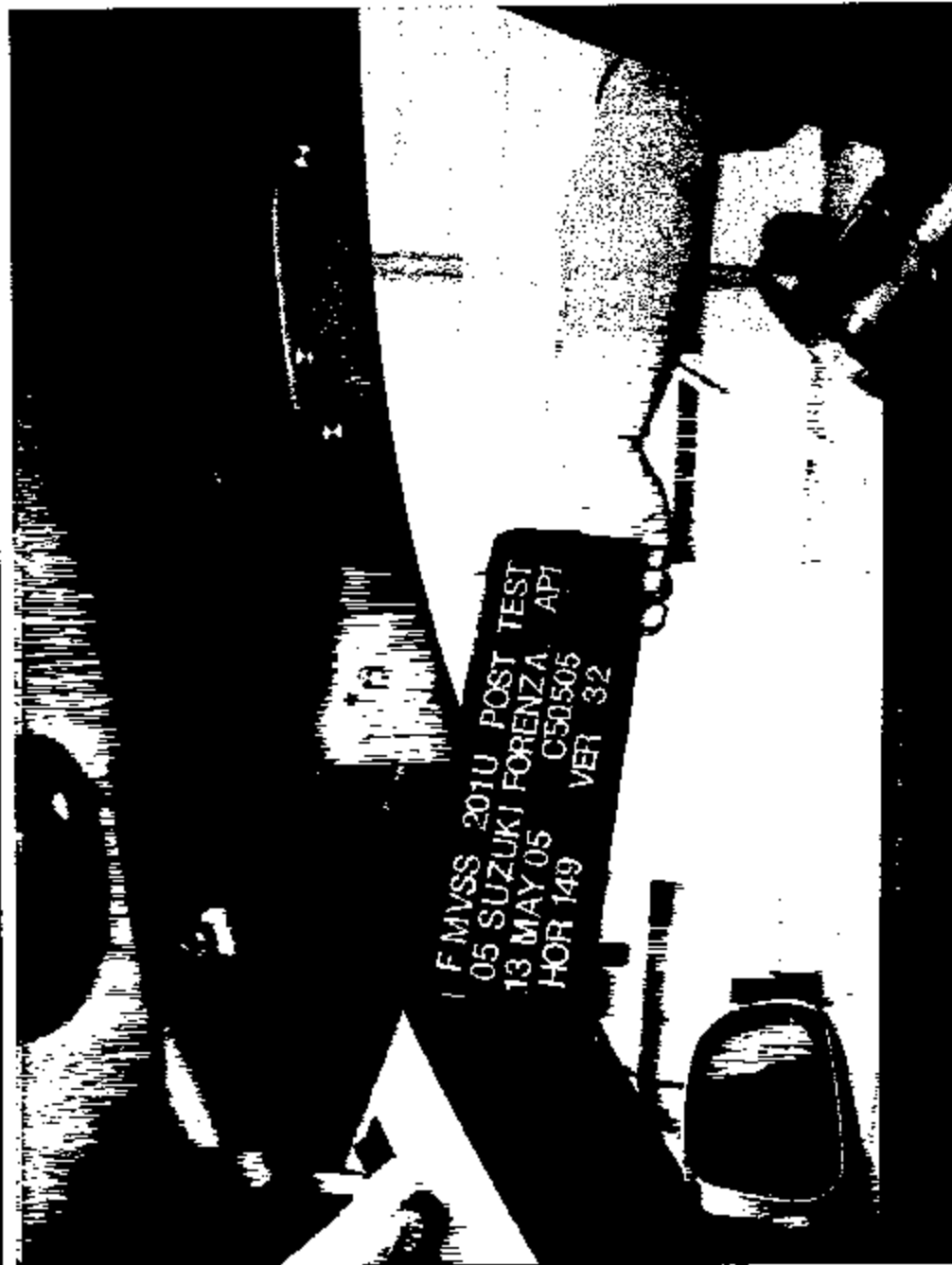
Headform Velocity



C50505 - May 13, 2005



PRE-IMPACT API



POST-IMPACT API

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SRE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	03
Test Date:	05/13/05
Target Location:	B-PILLAR
Target Code:	BP4
Horizontal Impact Angle:	149°
Vertical Impact Angle:	-1°
Ambient Temperature:	22.3C°
Relative Humidity:	21.7
Time of Impact:	10:40
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	10	mm right	X mm left
On Centerline	18	mm up	



POST-IMPACT BP4 HEADFORM

Free Motion HIC	618.6
HIC(d)	633.1
Impact Velocity (kph)	23.46
HIC T1 (msec)	1.1
HIC T2 (msec)	10.2

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - BP4

FMH Headform 0355

Location: BP4

Test Date: May 13, 2005

Work File: BP4

TEST RESULTS

Lab Temperature: 22.3 C

HICd: 633.1

Lab Humidity: 21.7 %

HIC (36ms): 618.6

Velocity at Impact: 23.46 KPH

t1: 1.0 msec

t2: 10.2 msec

Free Flight Distance: 216.31 mm

Duration: 9.2 msec

Maximum: 125.1 g

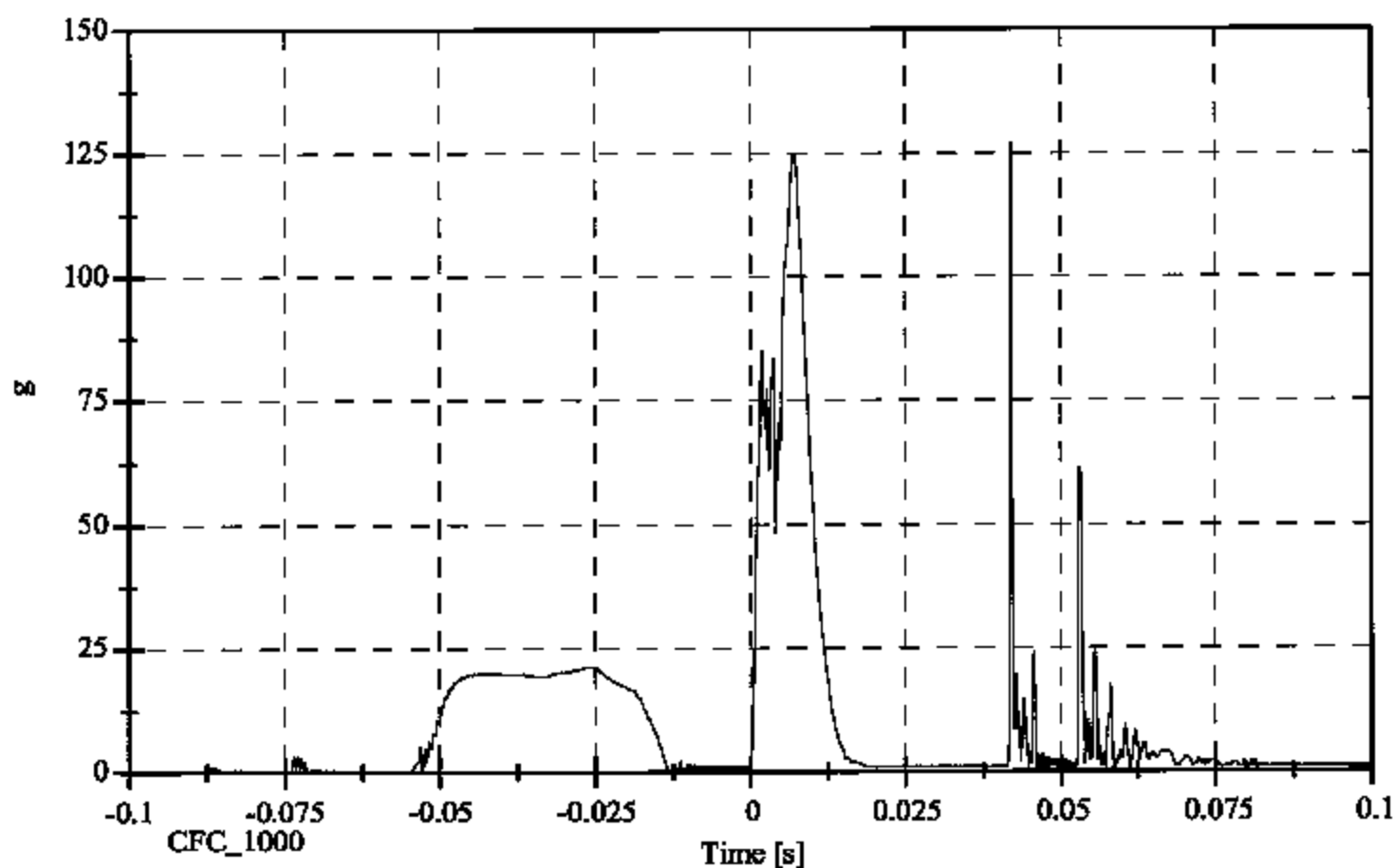
Average Acceleration: 9.4 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 125.1 [g] at 0.007 [s]

Headform Resultant

Min: 0.0 [g] at -0.096 [s]

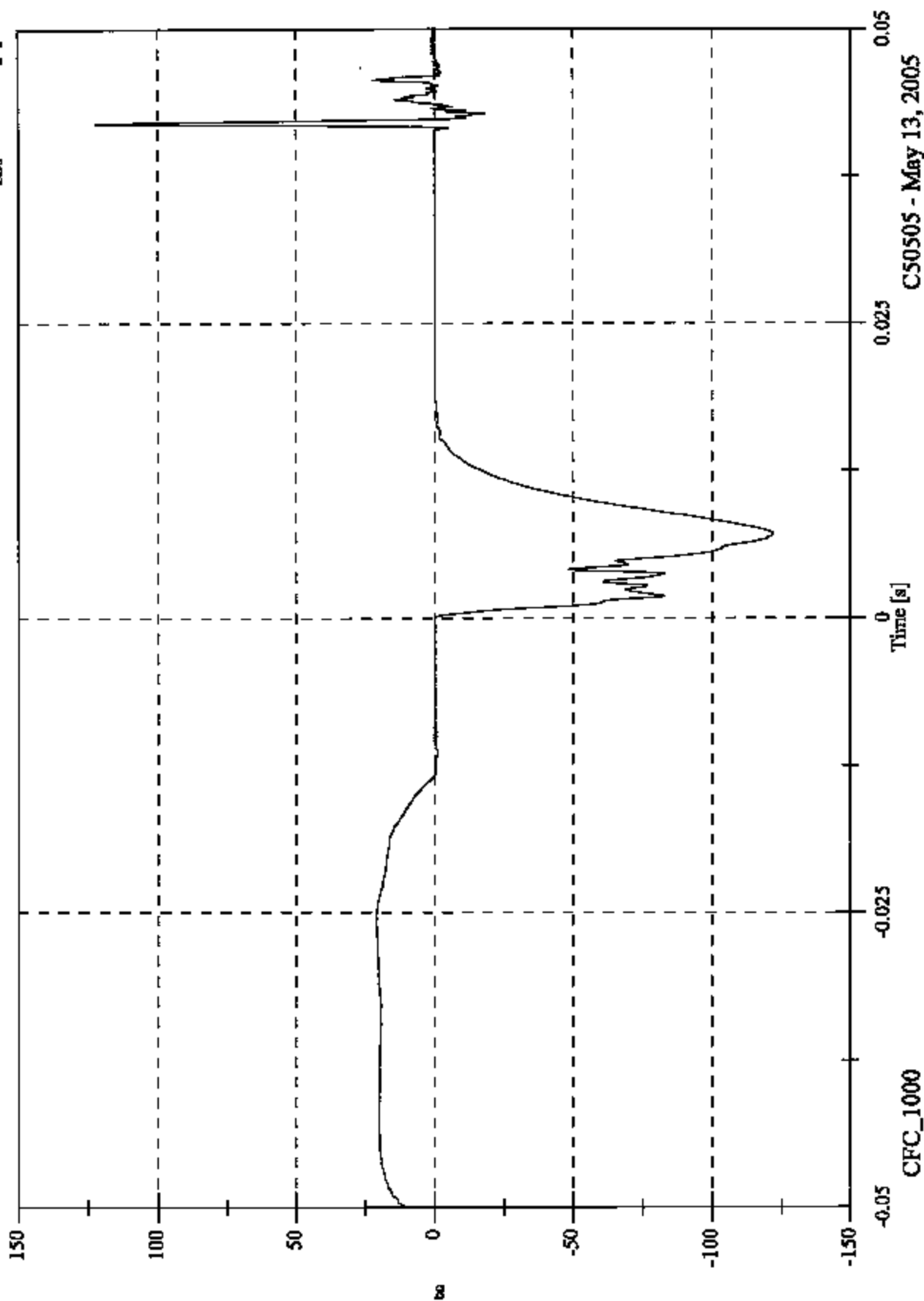


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 122.4 [g] at 0.042 [s]

Min: -122.0 [g] at 0.007 [s]

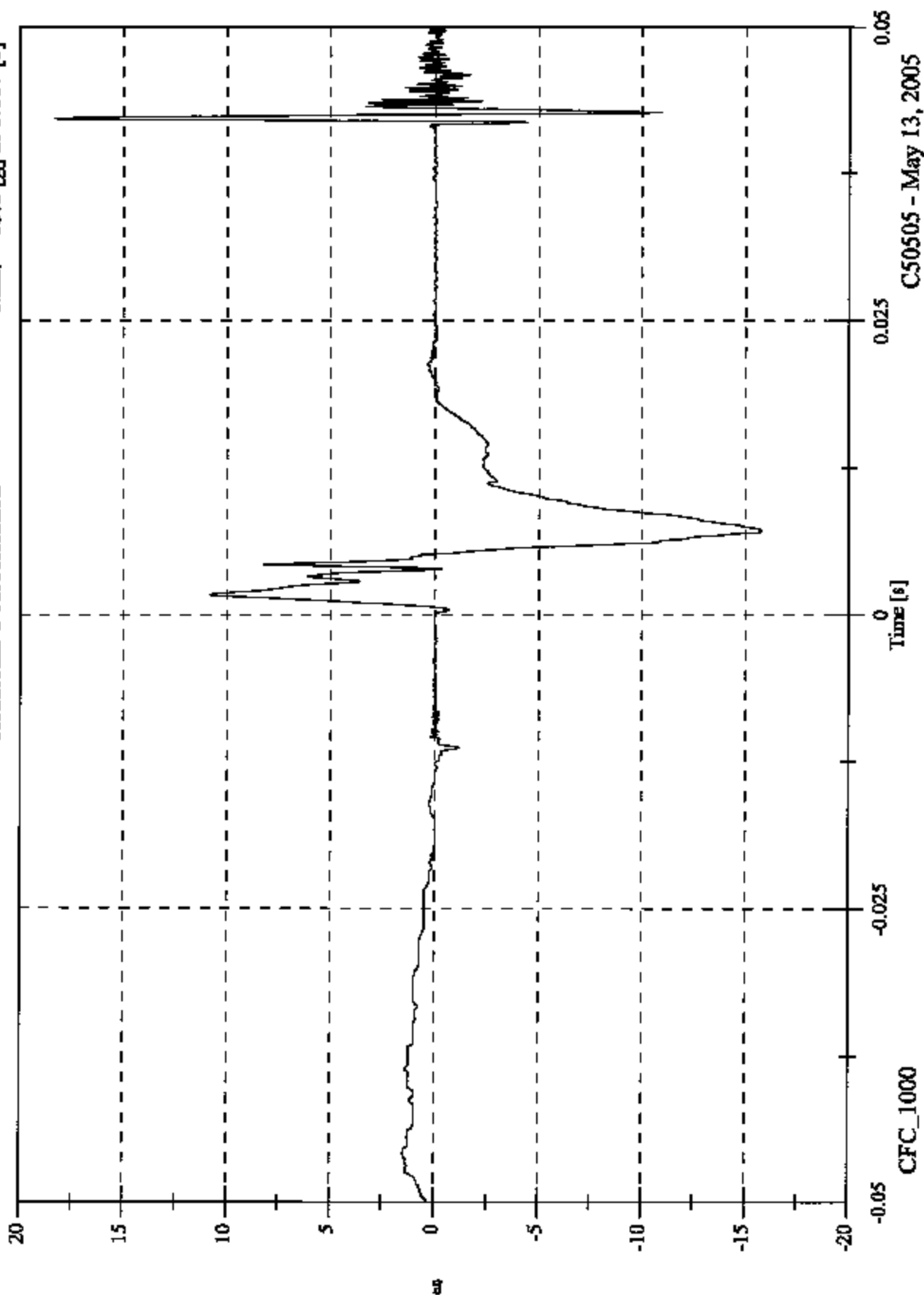


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 18.3 [g] at 0.042 [s]

Min: -15.8 [g] at 0.007 [s]



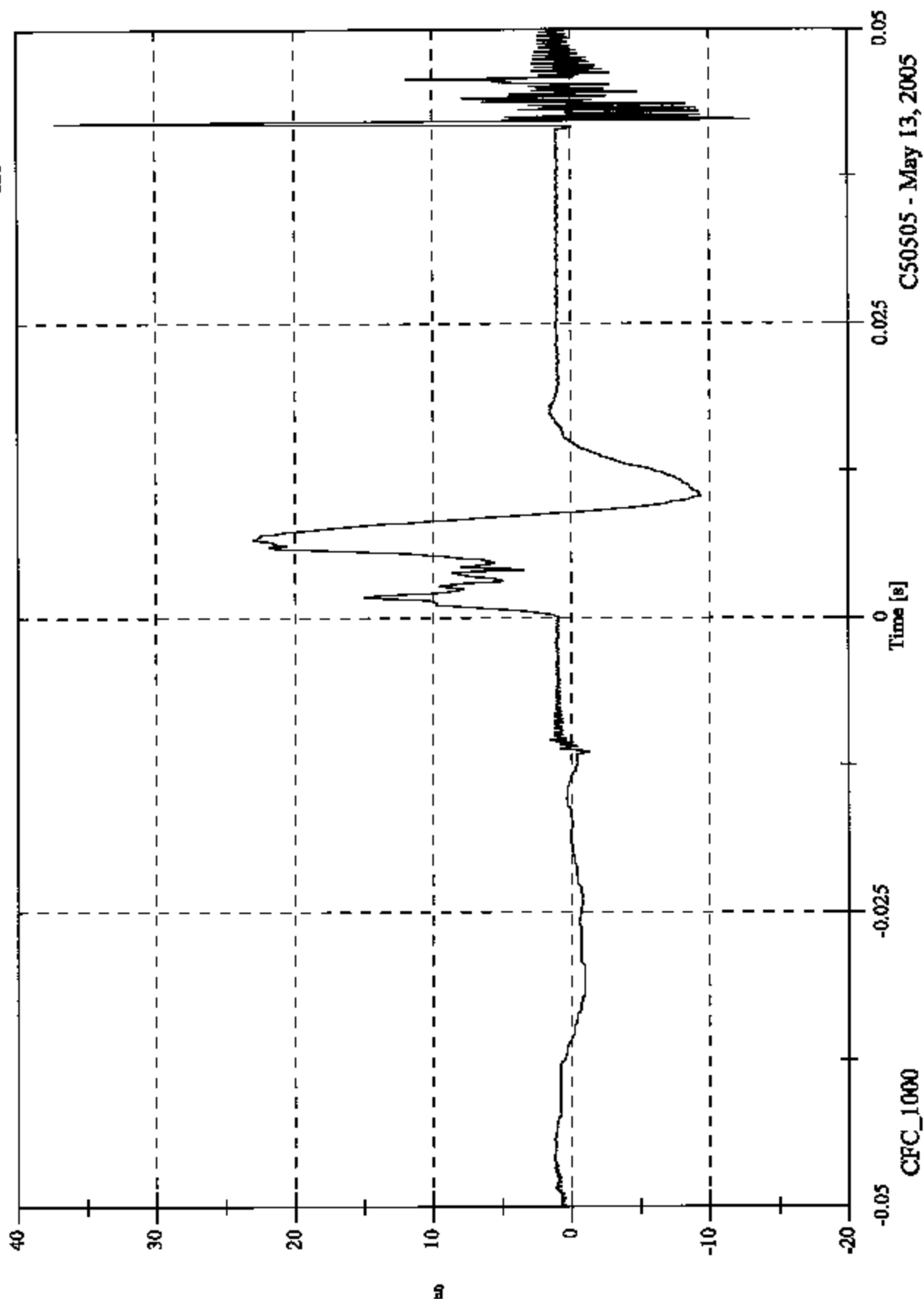
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 37.1 [g] at 0.042 [s]

Min: -13.0 [g] at 0.042 [s]

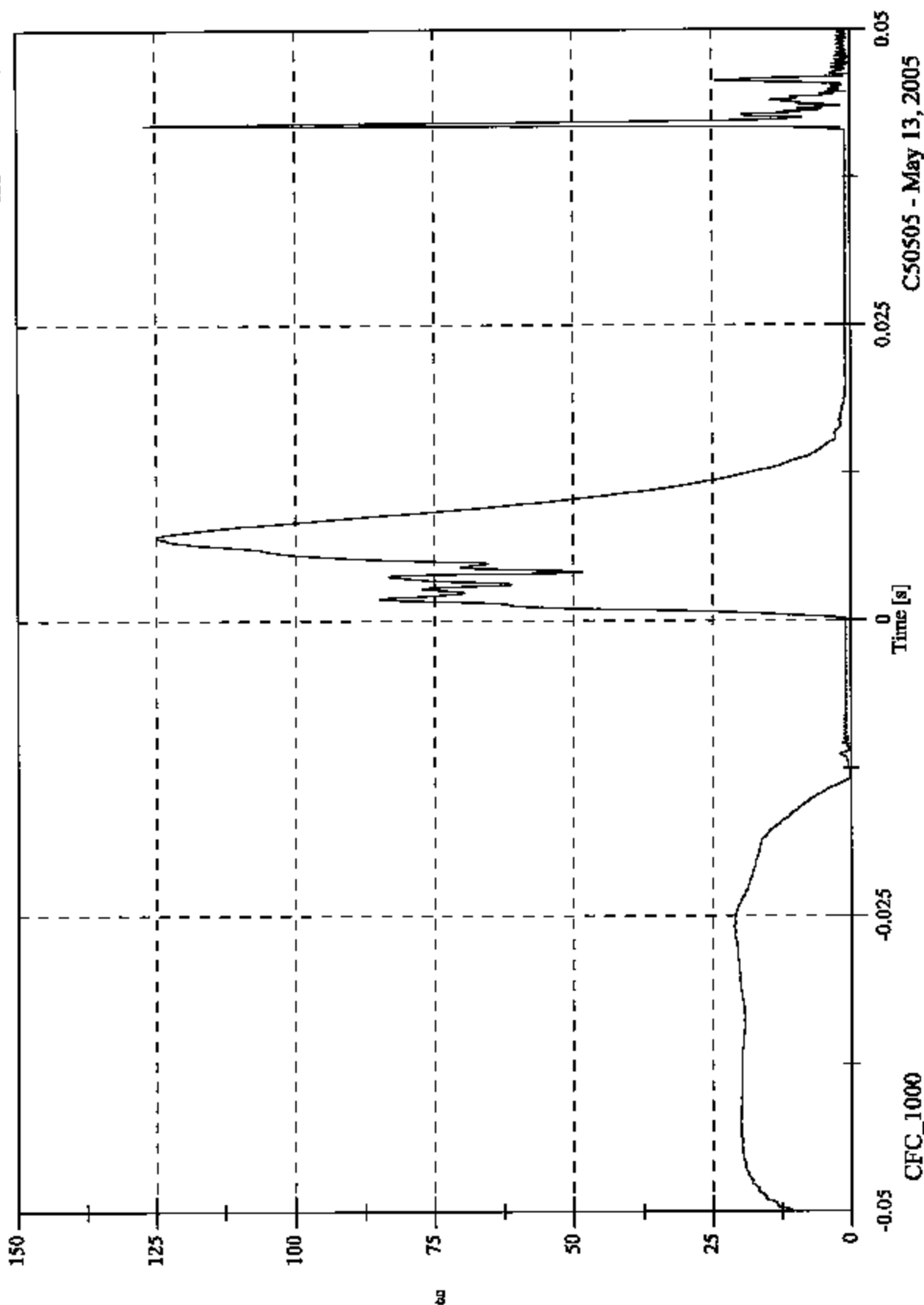


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 127.0 [g] at 0.042 [s]

Min: 0.1 [g] at -0.013 [s]

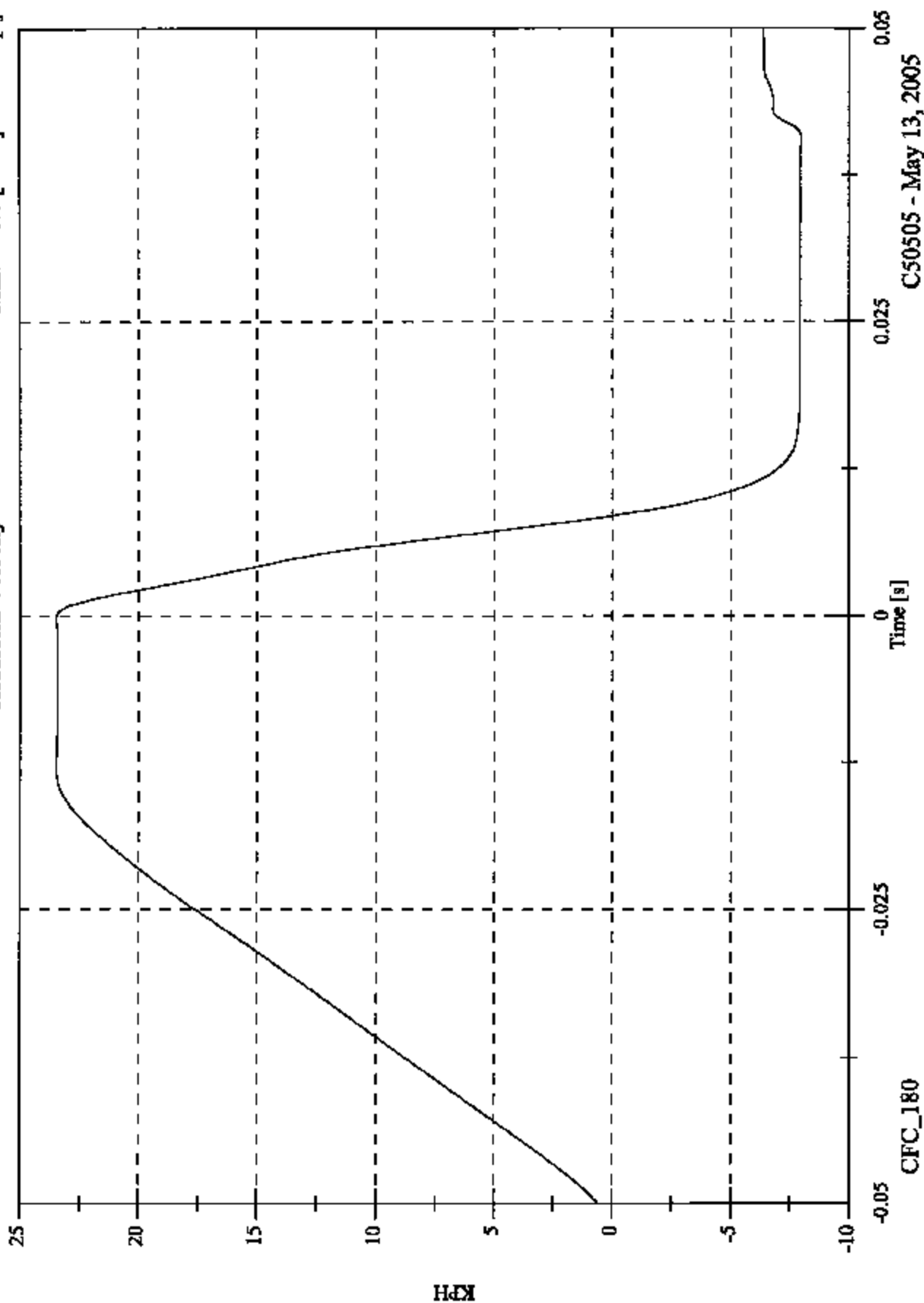


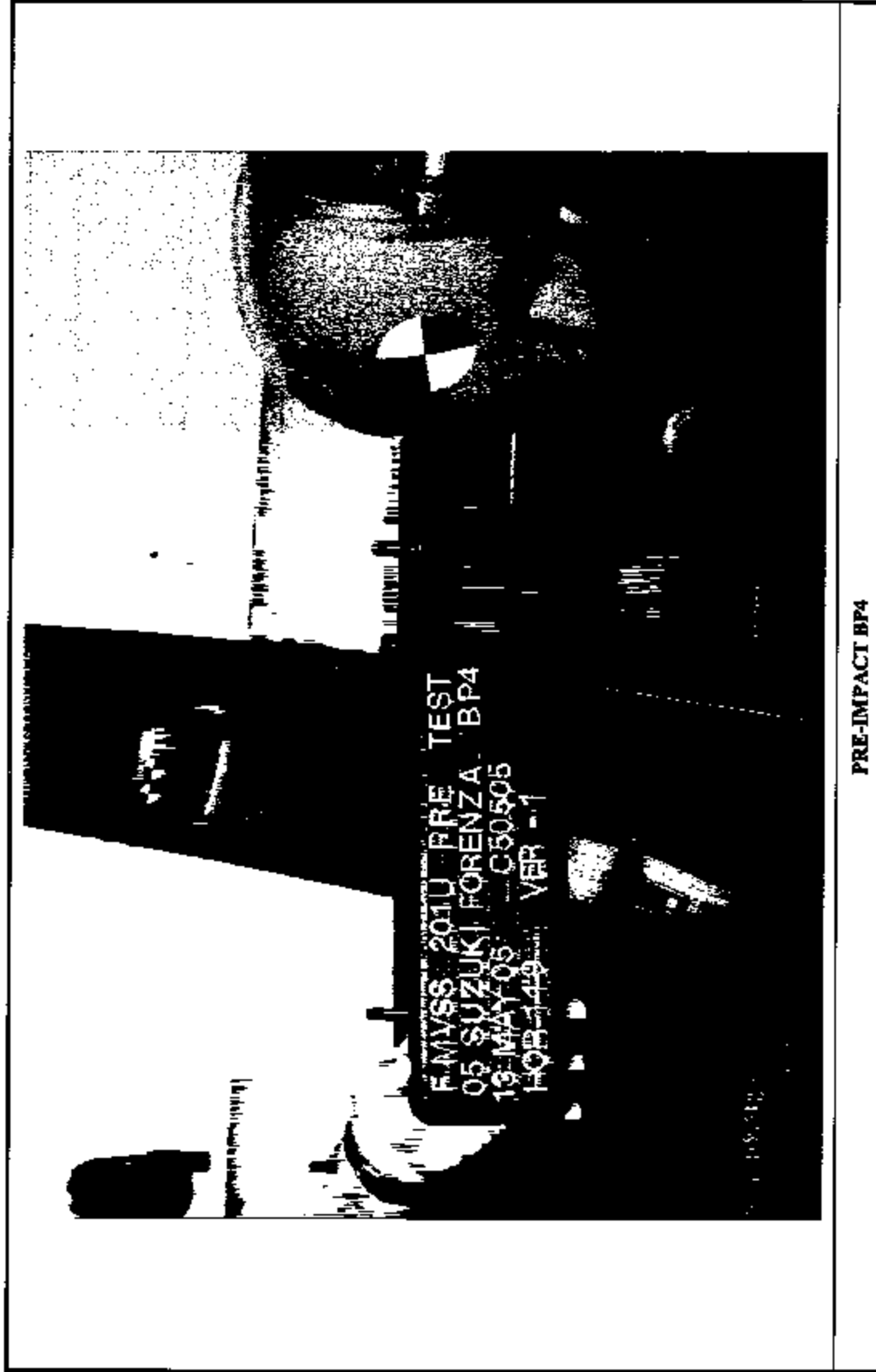
FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.5 [KPH] at -0.000 [s]

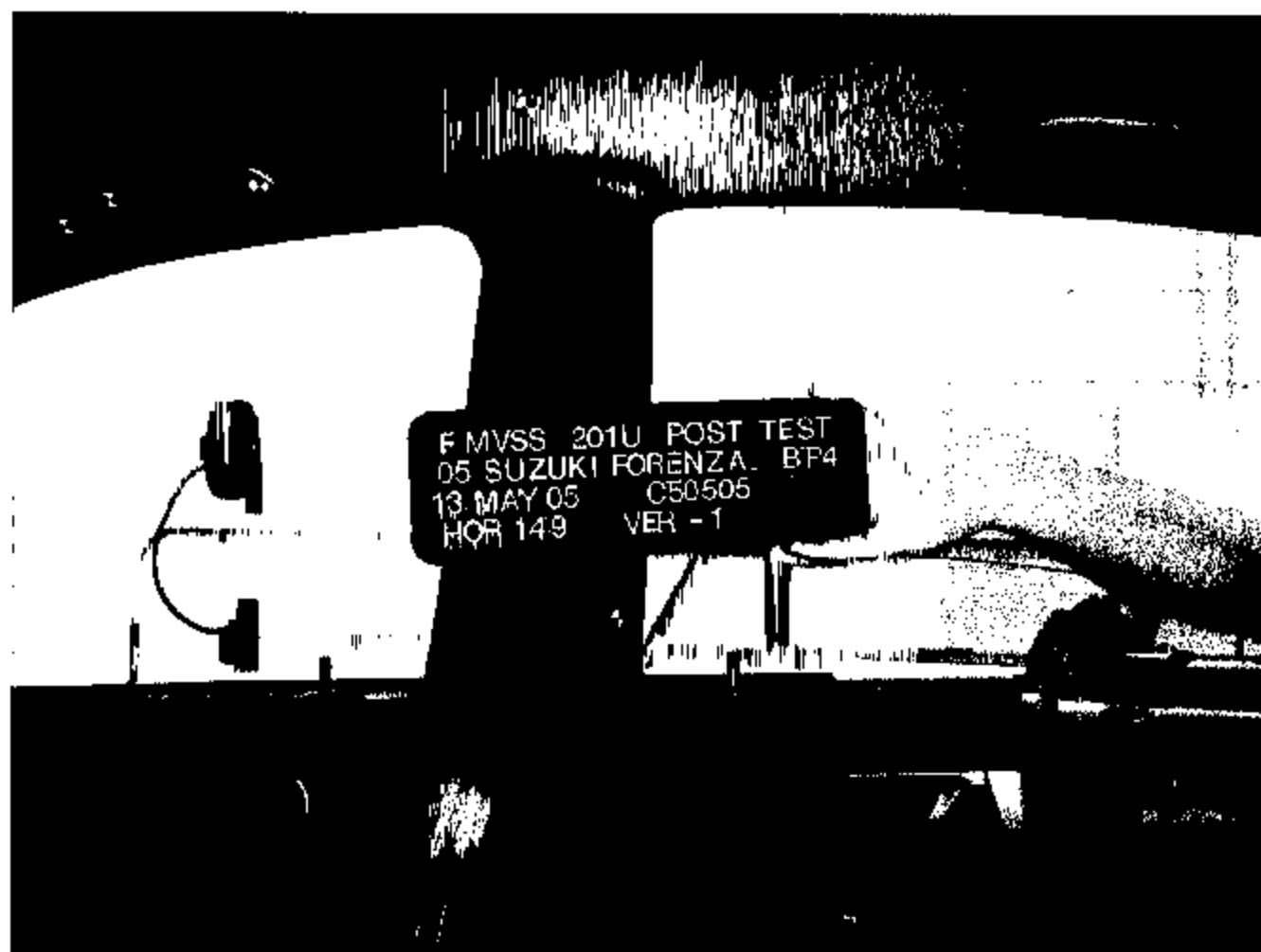
Min: -8.0 [KPH] at 0.041 [s]

Headform Velocity





PRE-IMPACT BP4

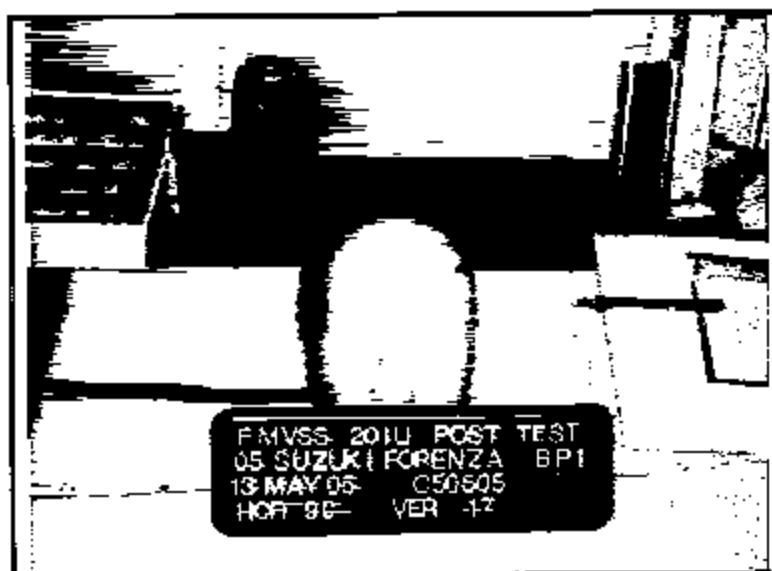


POST-IMPACT BP4

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	04
Test Date:	05/13/05
Target Location:	B-PILLAR
Target Code:	BP1
Horizontal Impact Angle:	90°
Vertical Impact Angle:	17°
Ambient Temperature:	22.6C°
Relative Humidity:	21.8
Time of Impact:	11:15
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	4	☒ mm right	☐ mm left
On Centerline	22	mm up	



POST-IMPACT BP1 HEADFORM

Free Motion HIC	791.6
HIC(d)	763.7
Impact Velocity (kph)	23.46
HIC T1 (msec)	1.8
HIC T2 (msec)	9.1

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - BP1

FMH Headform 0062

Location: BP1

Test Date: May 13, 2005

Work File: BP1

TEST RESULTS

Lab Temperature: 22.6 C

HICd: 763.7

Lab Humidity: 21.8 %

HIC (36ms): 791.6

Velocity at Impact: 23.46 KPH

t1: 1.8 msec

t2: 9.1 msec

Free Flight Distance: 213.34 mm

Duration: 7.3 msec

Maximum: 125.7 g

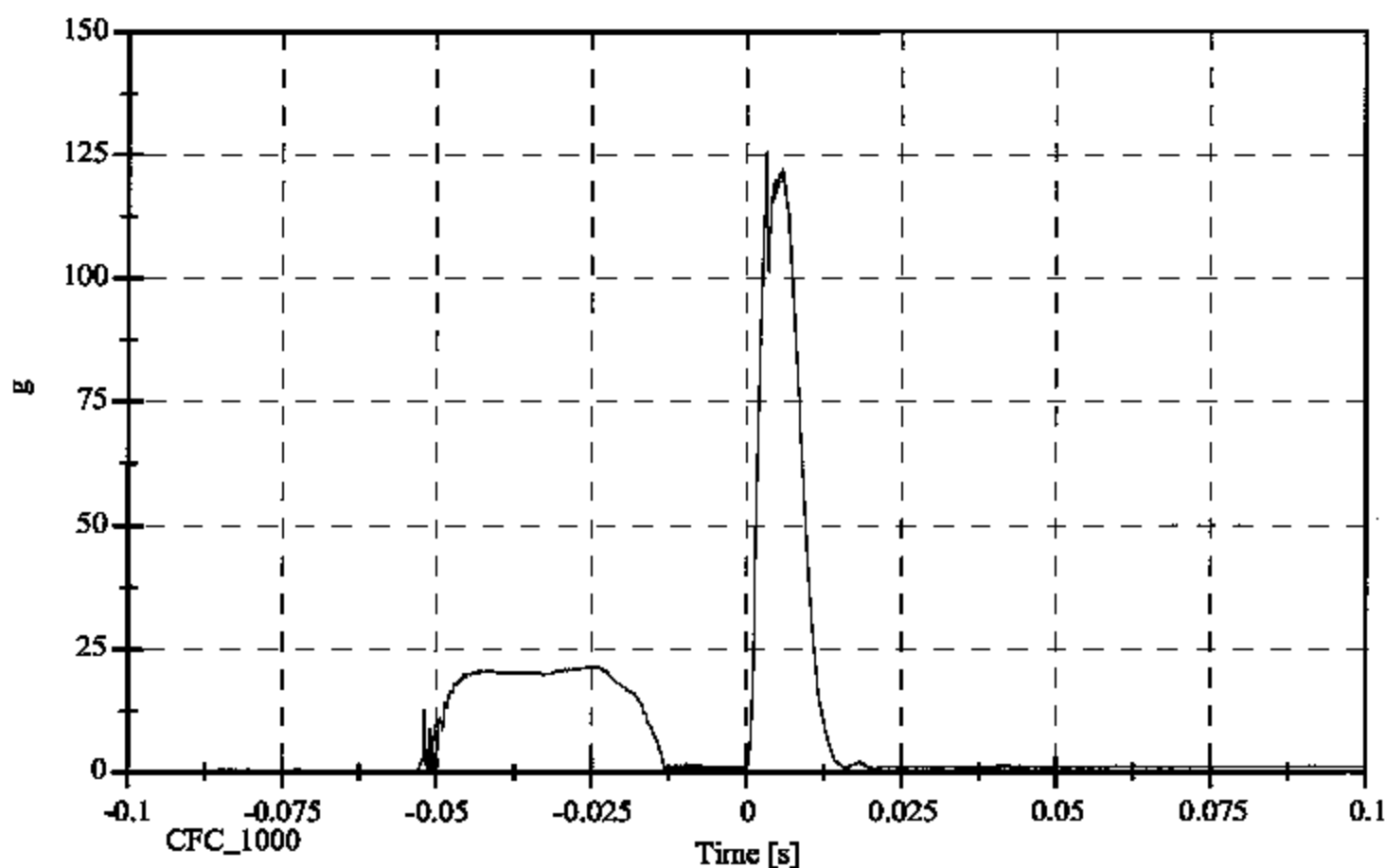
Average Acceleration: 8.5 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 125.7 [g] at 0.003 [s]

Headform Resultant

Min: 0.0 [g] at -0.097 [s]

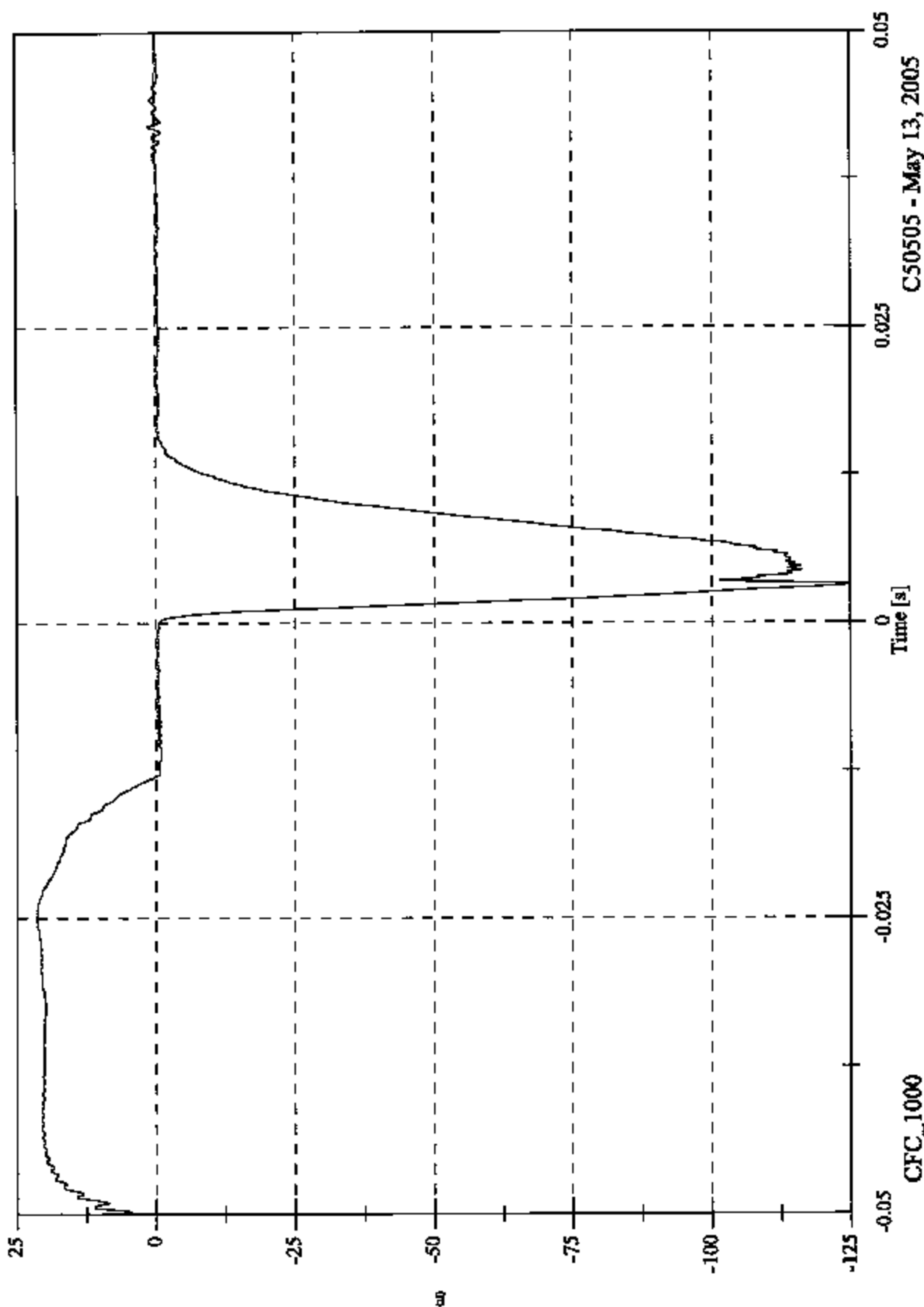


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 21.5 [g] at -0.025 [s]

Min: -125.0 [g] at 0.003 [s]

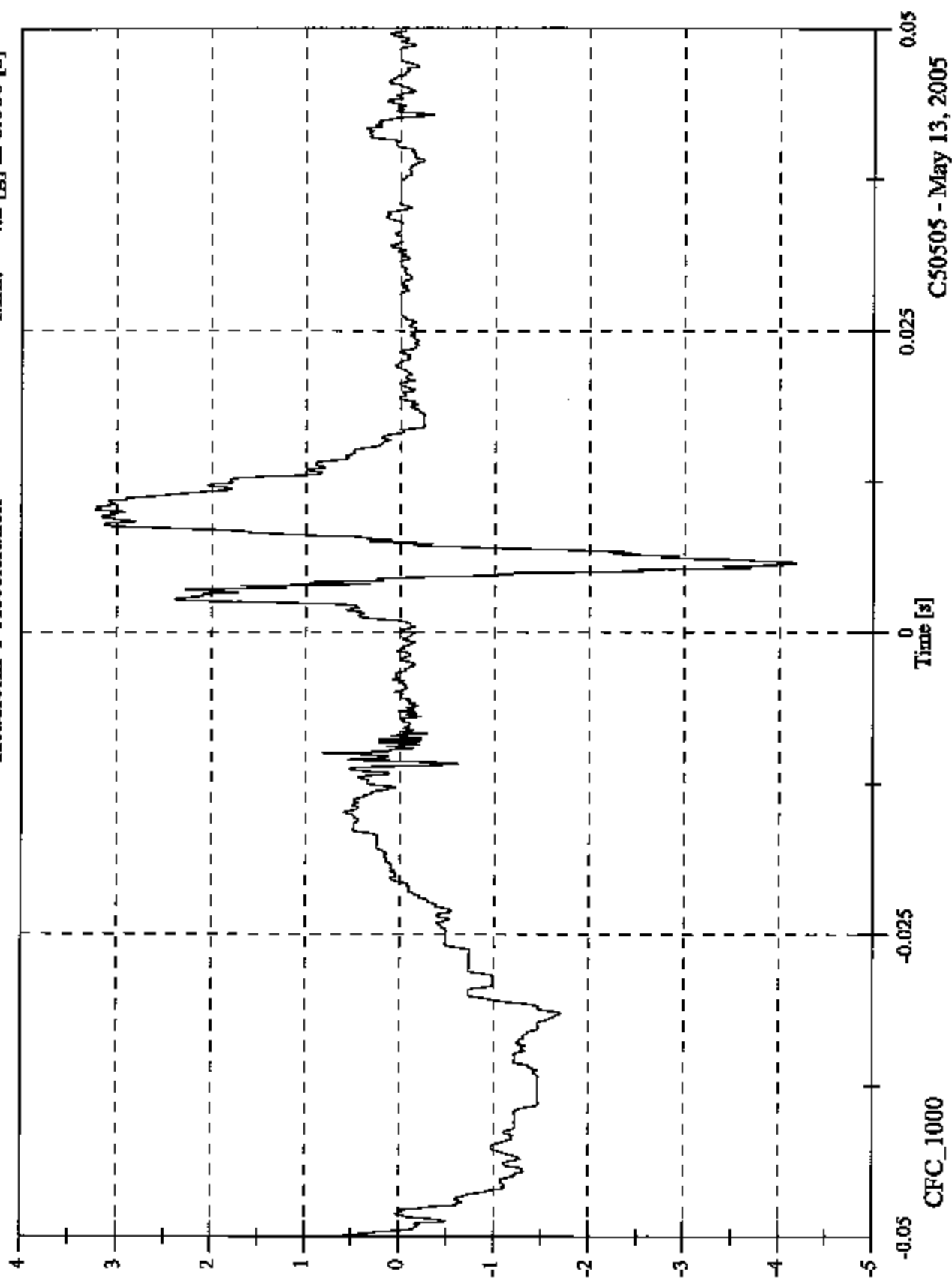


C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 3.2 [g] at 0.010 [s]
Min: -4.2 [g] at 0.006 [s]



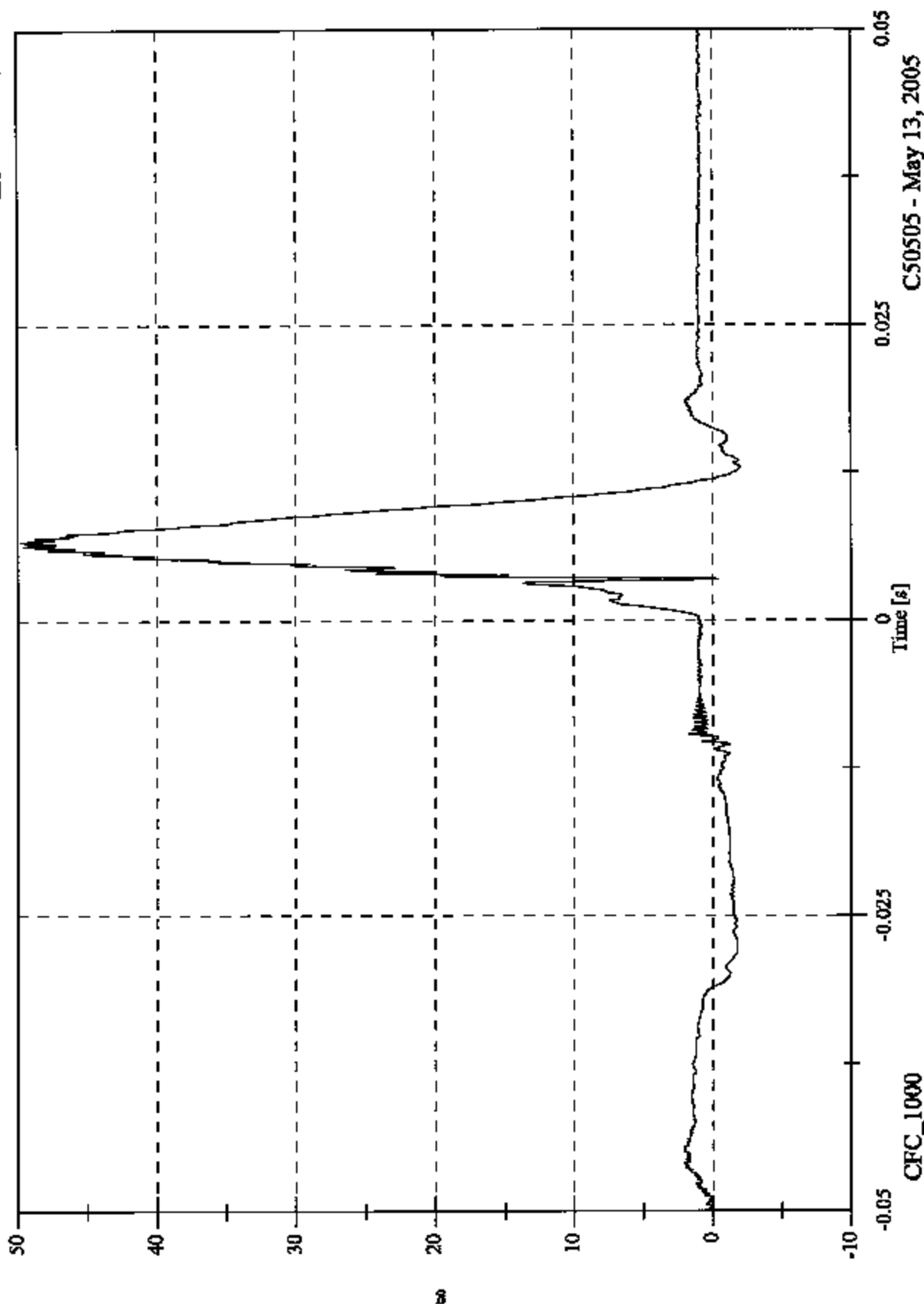
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 49.8 [g] at 0.007 [s]

Min: -2.0 [g] at 0.013 [s]

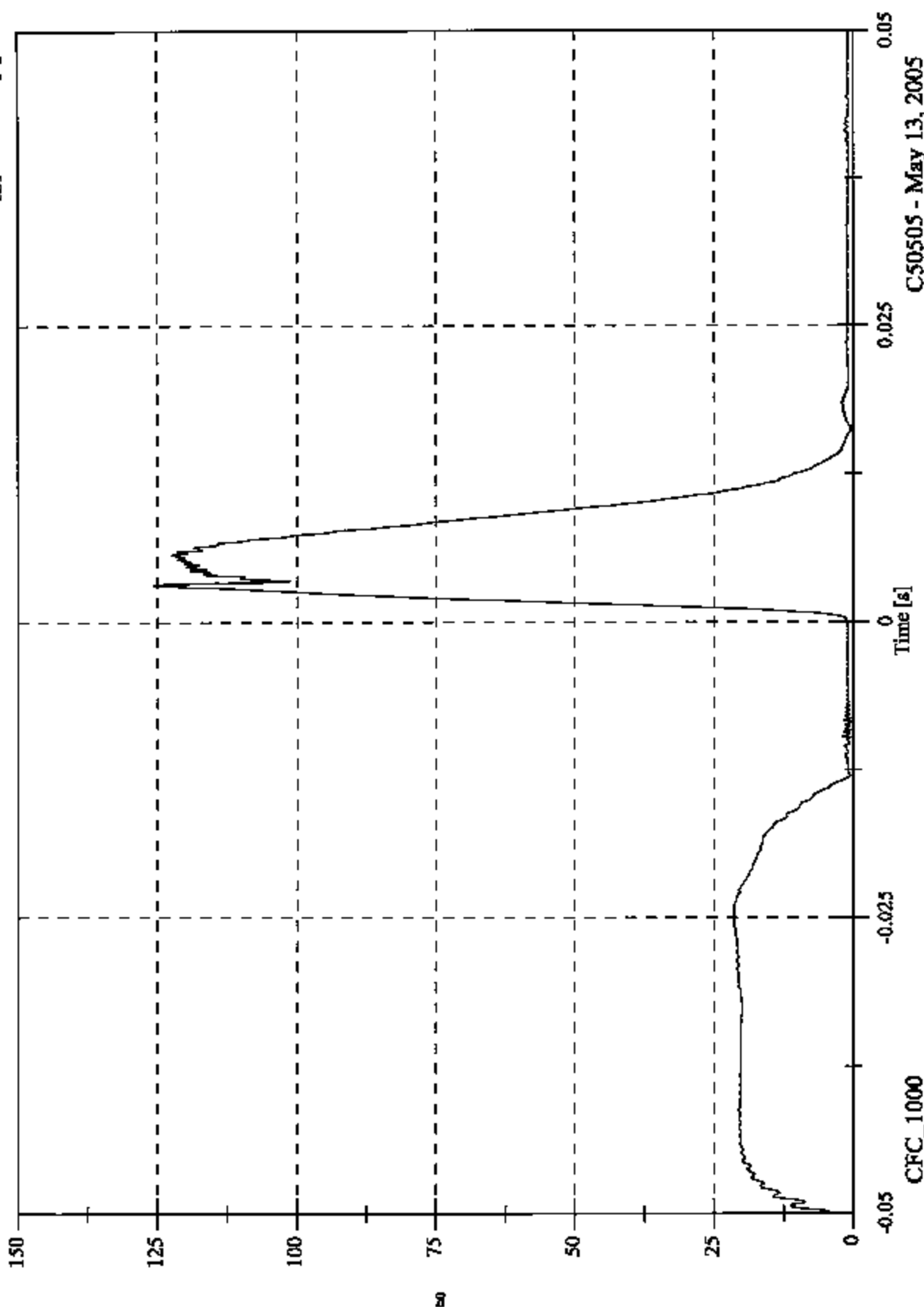


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 125.7 [g] at 0.003 [s]

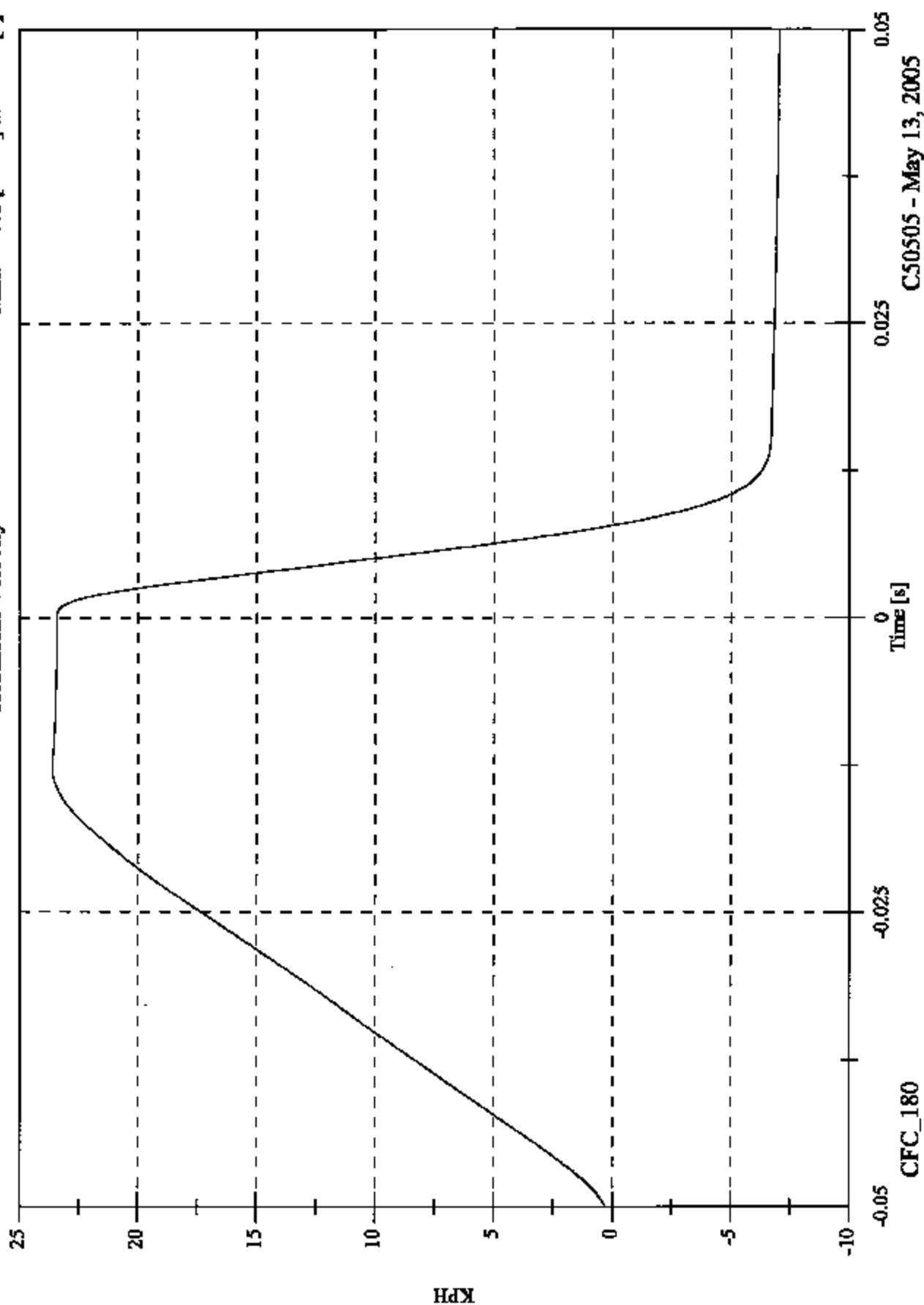
Min: 0.4 [g] at 0.016 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.6 [KPH] at -0.013 [s]
 Min: -7.1 [KPH] at 0.050 [s]

Headform Velocity



C50505 - May 13, 2005



PRE-IMPACT BP1



POST-IMPACT BP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04 (SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	05
Test Date:	05/13/05
Target Location:	SIDE RAIL
Target Code:	SR2A
Horizontal Impact Angle:	90°
Vertical Impact Angle:	25°
Ambient Temperature:	22.5C°
Relative Humidity:	22
Time of Impact:	11:40
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	3	mm right	x mm left
On Centerline	8	mm up	



POST-IMPACT SR2A HEADFORM

Free Motion HIC	684.7
HIC(d)	682.9
Impact Velocity (kph)	23.40
HIC T1 (msec)	1.7
HIC T2 (msec)	9.0

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - SR2A

FMH Headform 805

Location: SR2A

Test Date: May 13, 2005

Work File: SR2A

TEST RESULTS

Lab Temperature: 22.5 C

HICd: 682.9

Lab Humidity: 22.0 %

HIC (36ms): 684.7

Velocity at Impact: 23.40 KPH

t1: 1.7 msec

t2: 9.0 msec

Free Flight Distance: 210.20 mm

Duration: 7.3 msec

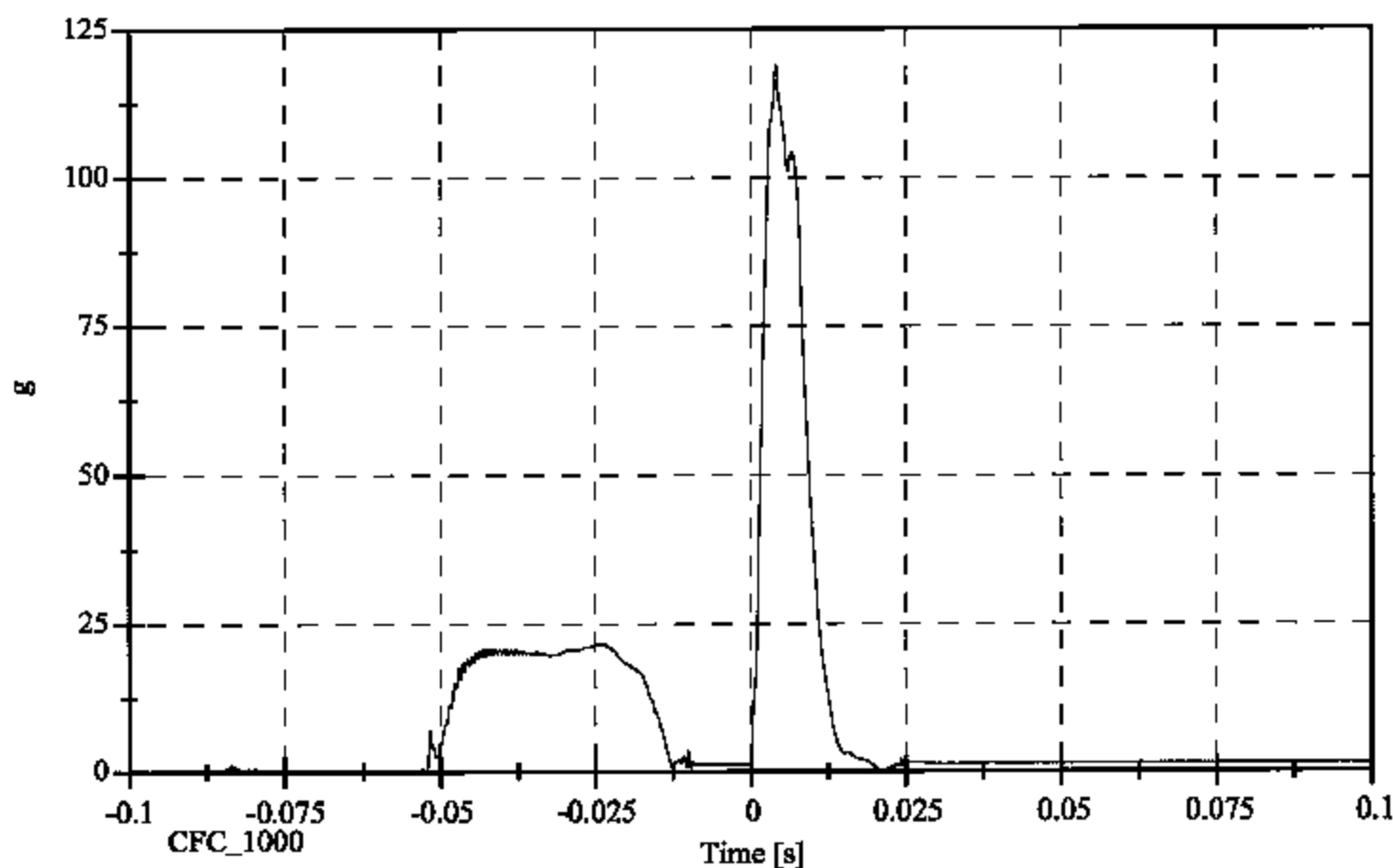
Maximum: 119.1 g

Average Acceleration: 8.5 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza
Headform Resultant

Max: 119.1 [g] at 0.004 [s]

Min: 0.0 [g] at -0.087 [s]

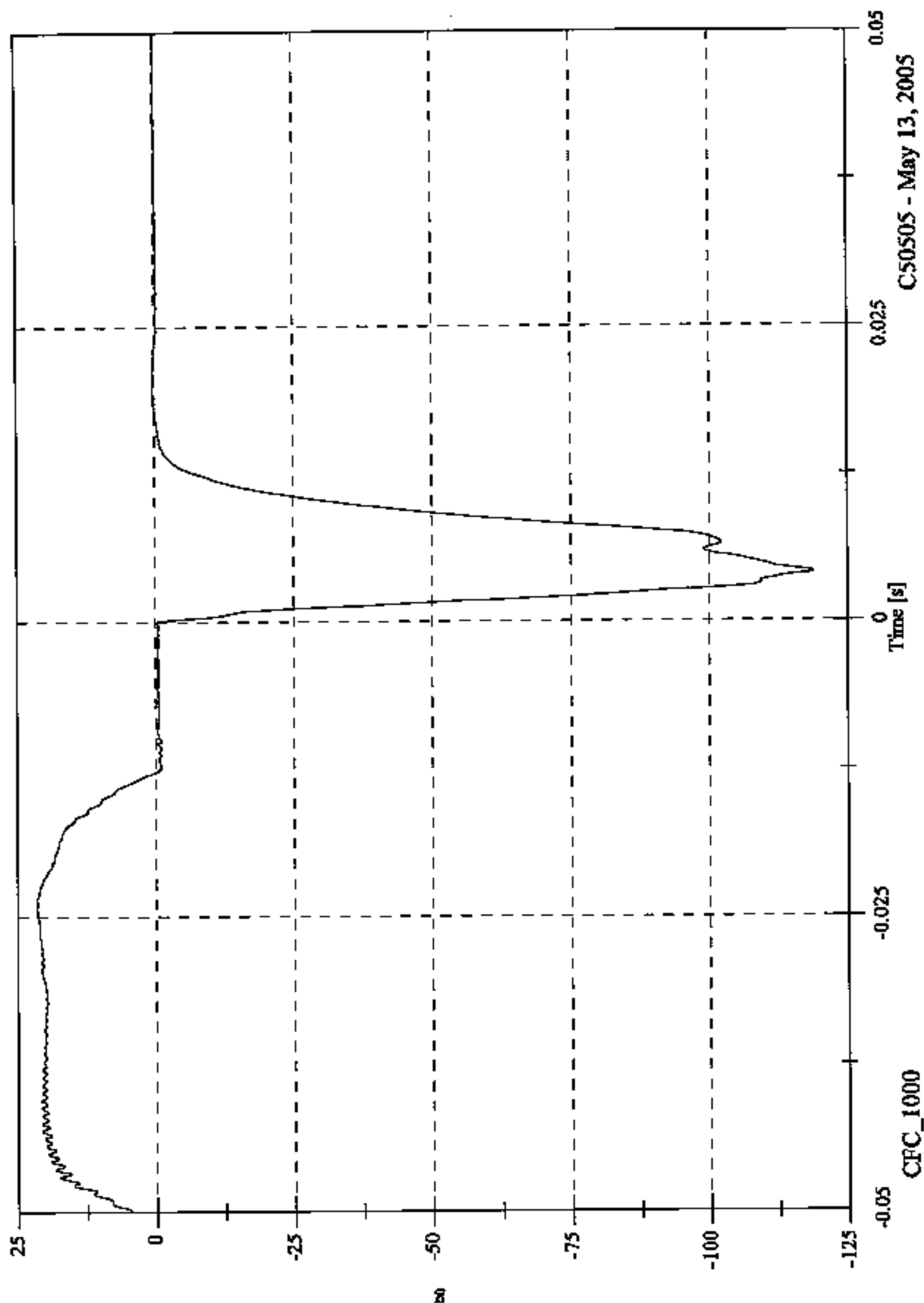


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 21.6 [g] at -0.024 [s]

Min: -118.8 [g] at 0.004 [s]

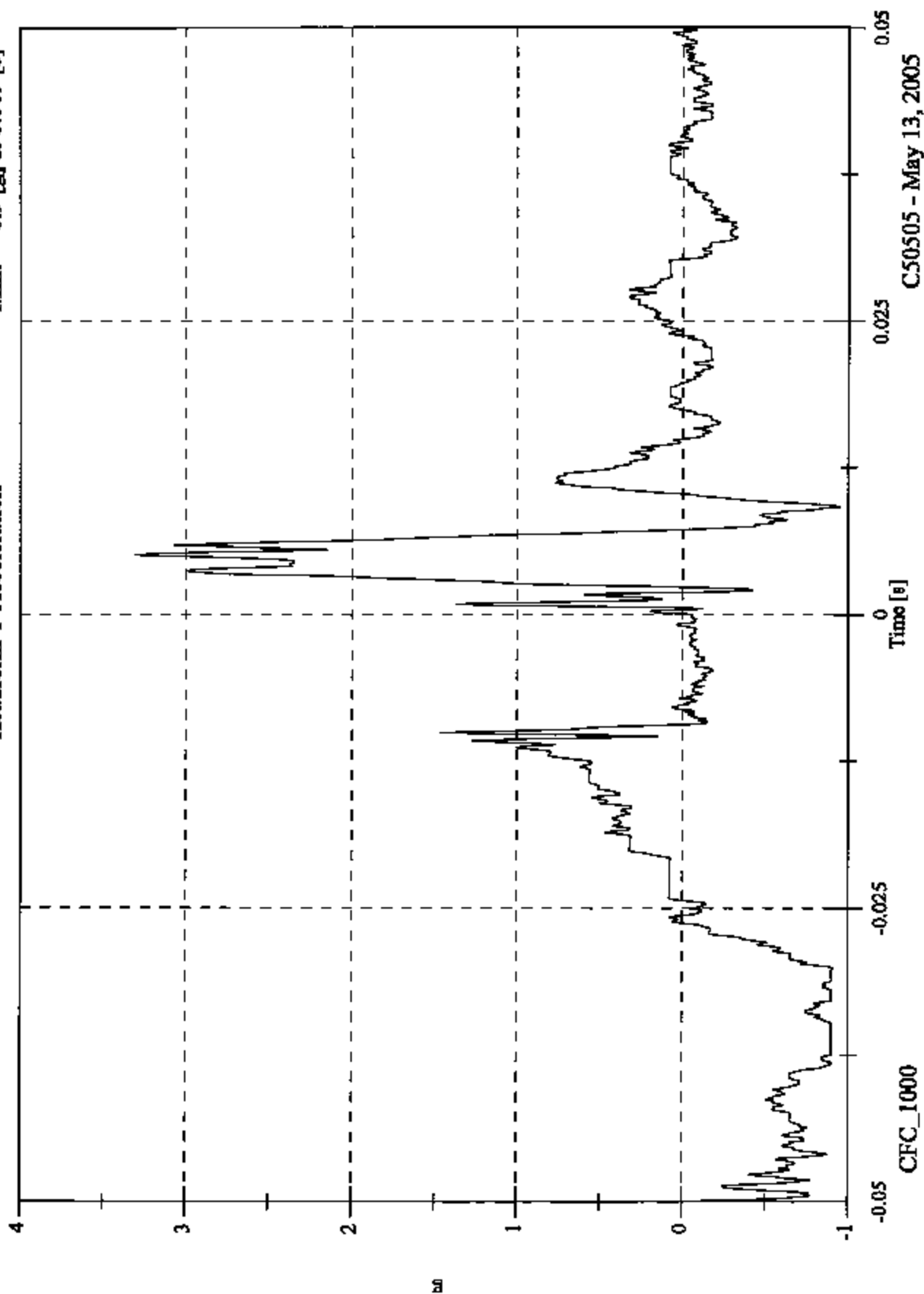


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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 3.3 [g] at 0.005 [s]
Min: -0.9 [g] at 0.009 [s]

Headform Y Acceleration

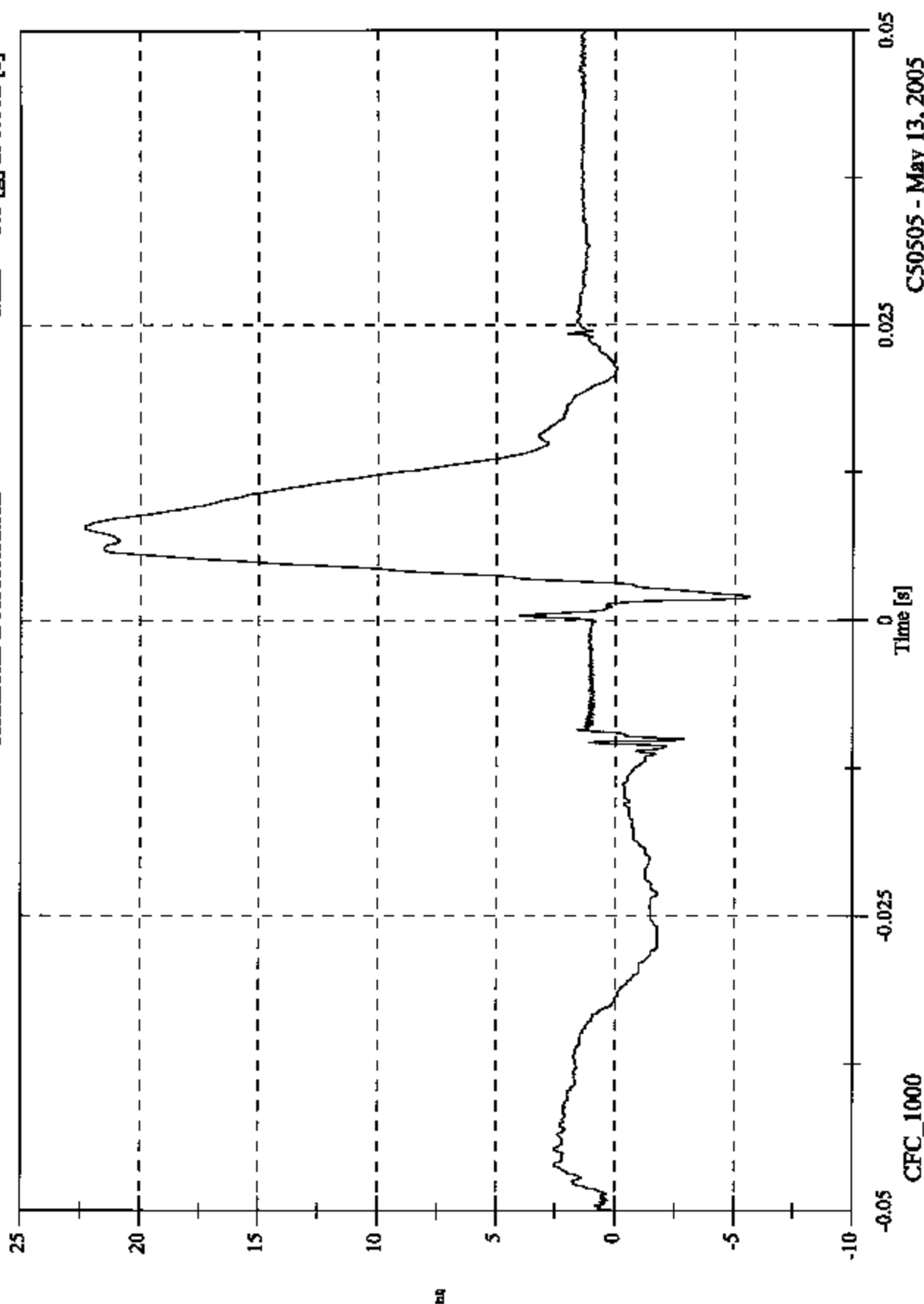


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 22.3 [g] at 0.008 [s]

Min: -5.6 [g] at 0.002 [s]



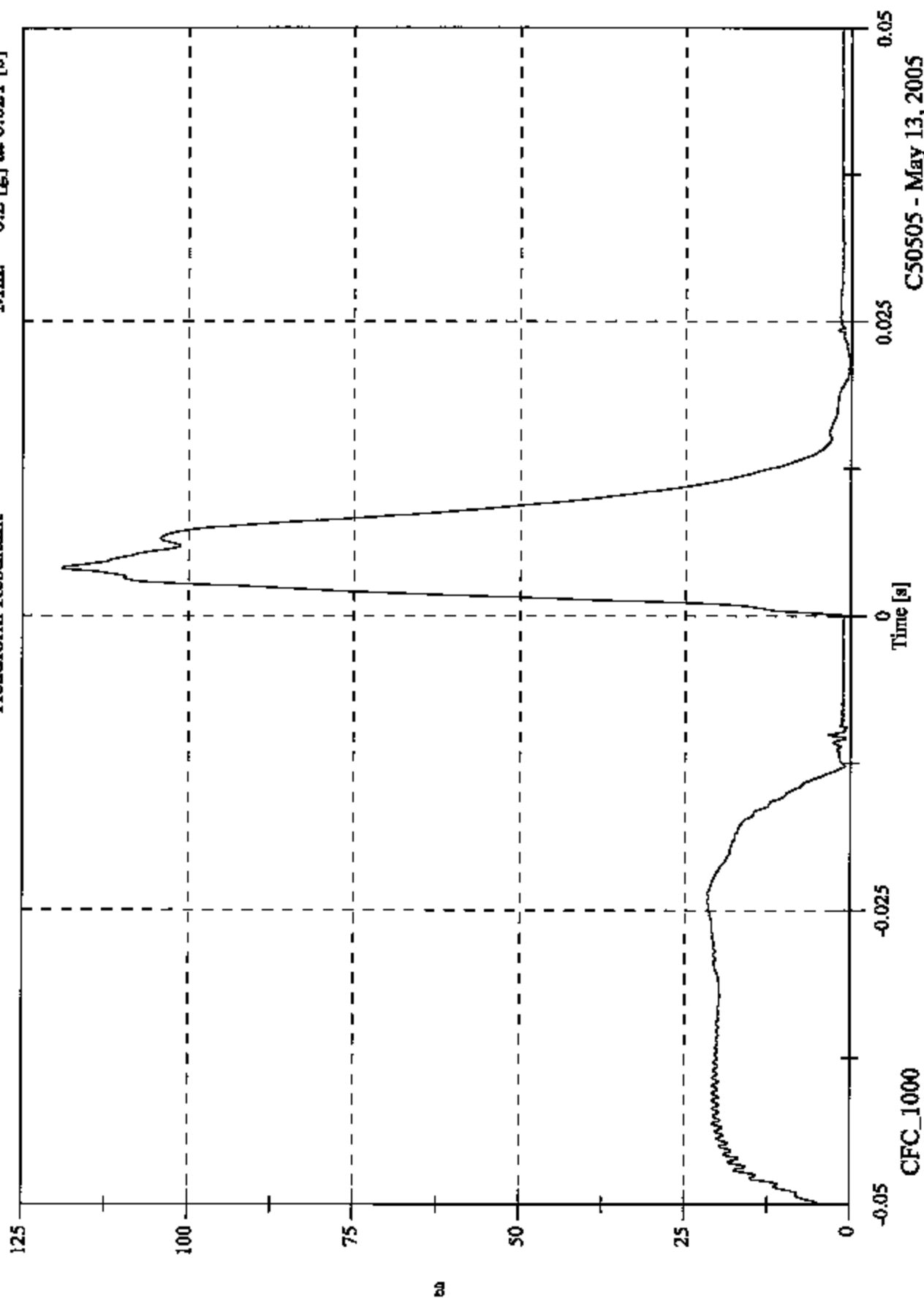
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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 119.1 [g] at 0.004 [s]

Min: 0.2 [g] at 0.021 [s]

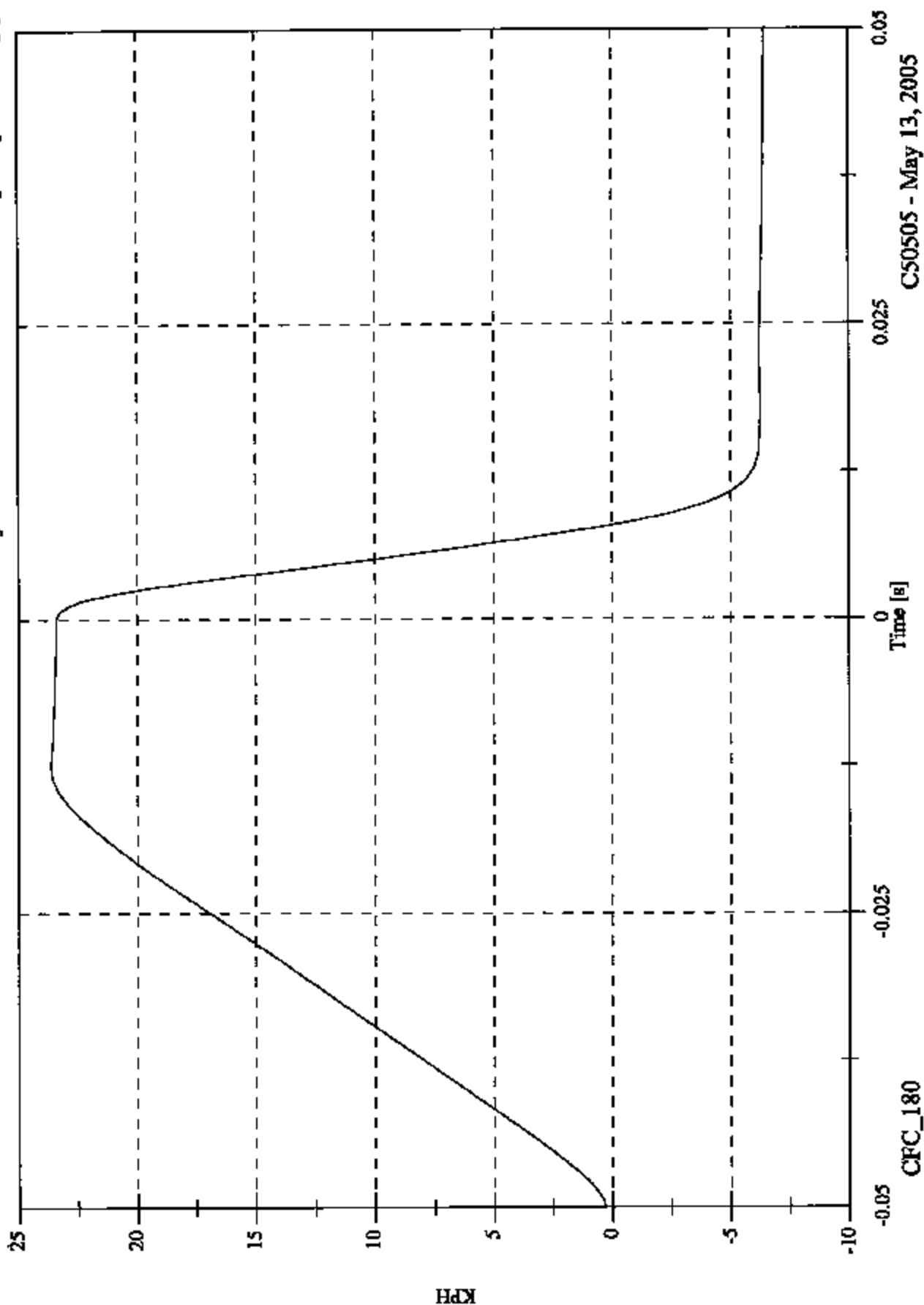
Headform Resultant



Max: 23.6 [KPH] at -0.013 [s]
Min: -6.4 [KPH] at 0.050 [s]

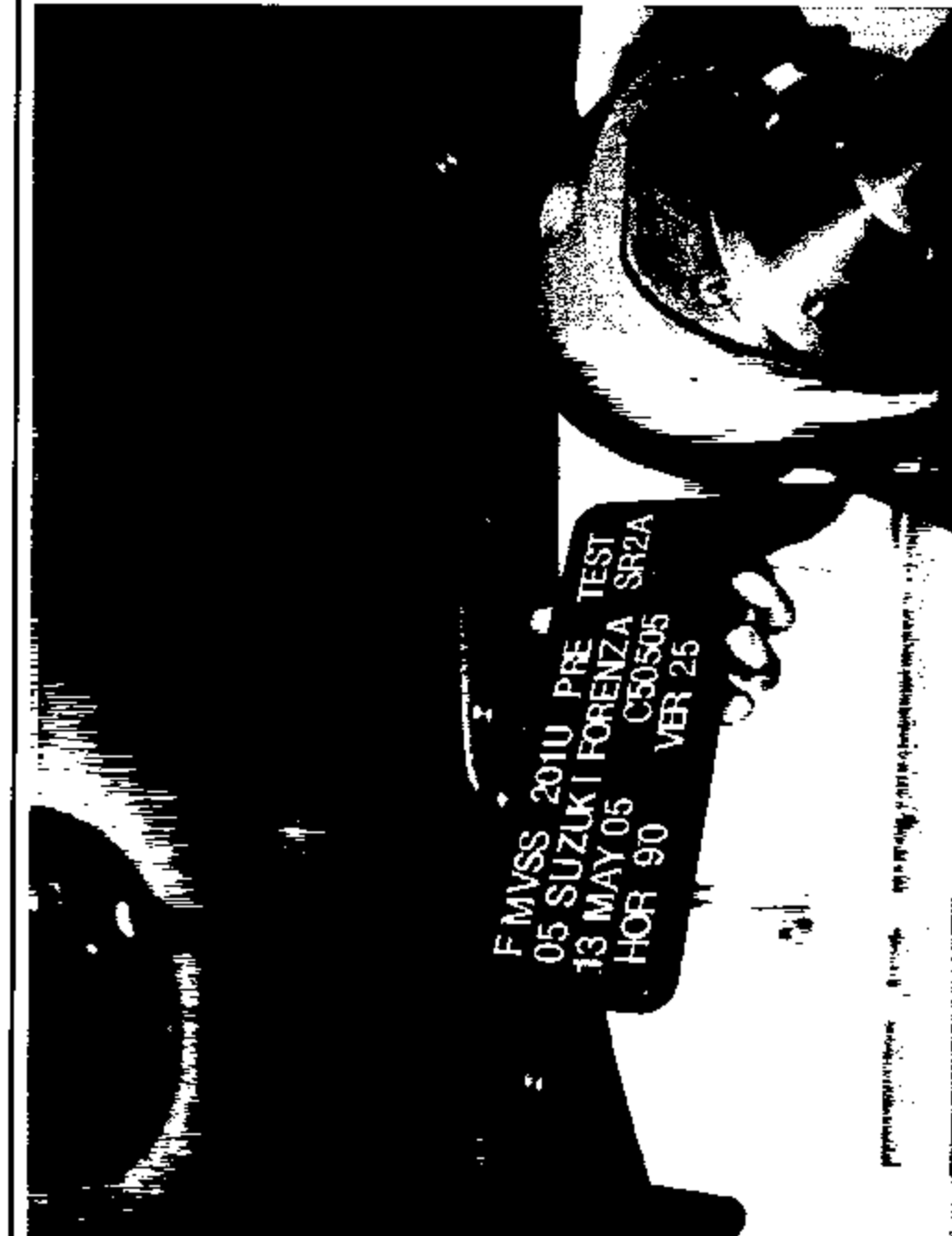
FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Velocity

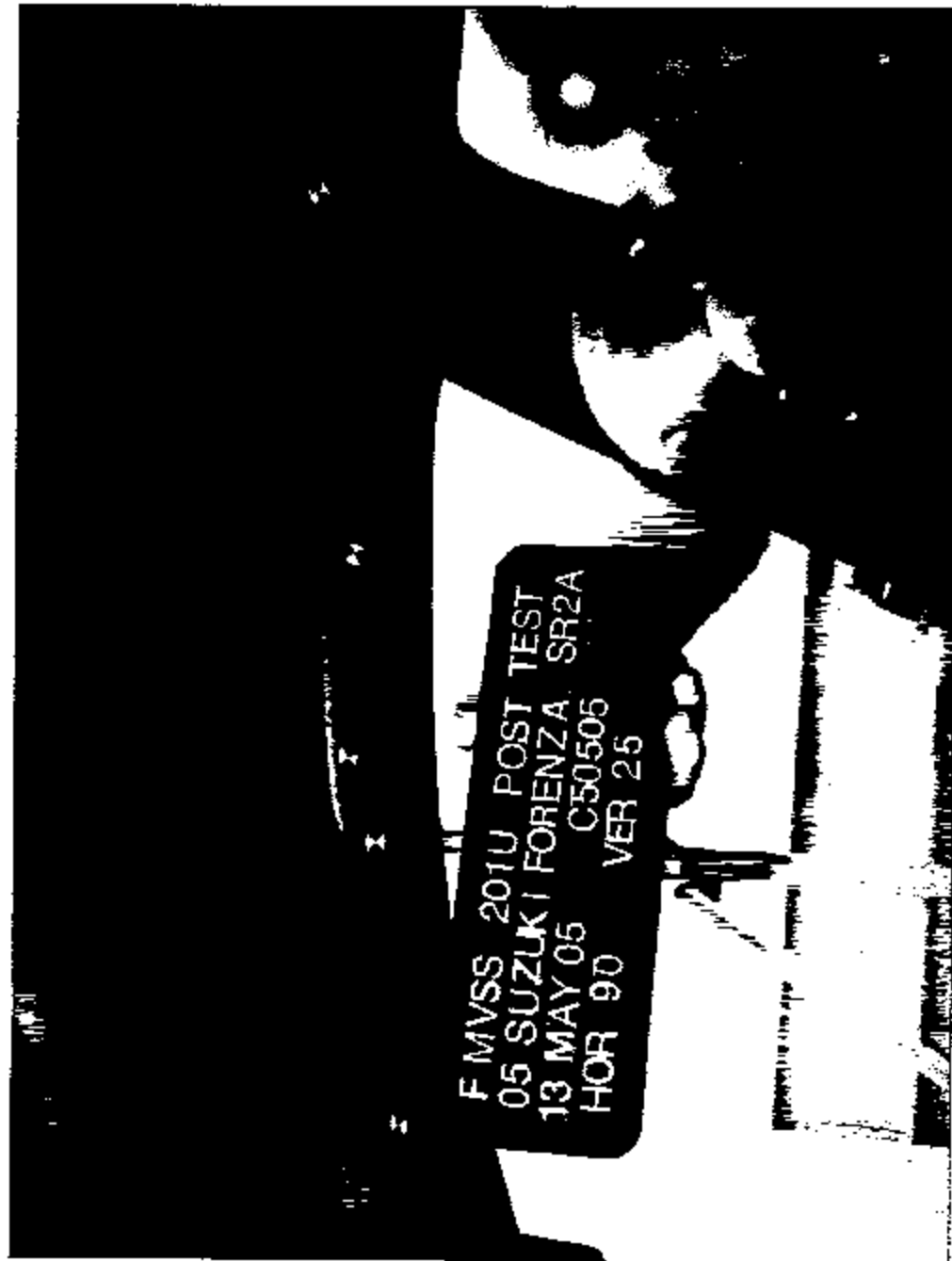


C50505 - May 13, 2005

CFC_180



PRE-IMPACT SR2A

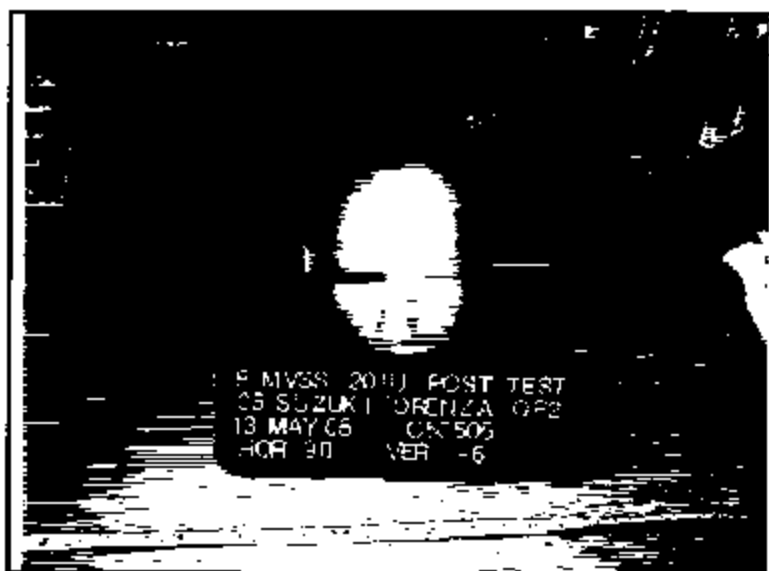


POST-IMPACT SR2A

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	06
Test Date:	05/13/05
Target Location:	OTHER PILLAR
Target Code:	OP2
Horizontal Impact Angle:	90°
Vertical Impact Angle:	-6°
Ambient Temperature:	22.6C°
Relative Humidity:	22.7
Time of Impact:	12:45
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	35	mm right	x mm left
On Centerline	8	mm up	



POST-IMPACT OP2 HEADFORM

Free Motion HIC	470.3
HIC(d)	521.2
Impact Velocity (kph)	23.55
HIC T1 (msec)	1.2
HIC T2 (msec)	10.2

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - OP2

FMH Headform 1255

Location: OP2

Test Date: May 13, 2005

Work File: OP2

TEST RESULTS

Lab Temperature: 22.6 C

HICd: 521.2

Lab Humidity: 22.7 %

HIC (36ms): 470.3

Velocity at Impact: 23.55 KPH

t1: 1.2 msec

t2: 10.2 msec

Free Flight Distance: 216.09 mm

Duration: 9.0 msec

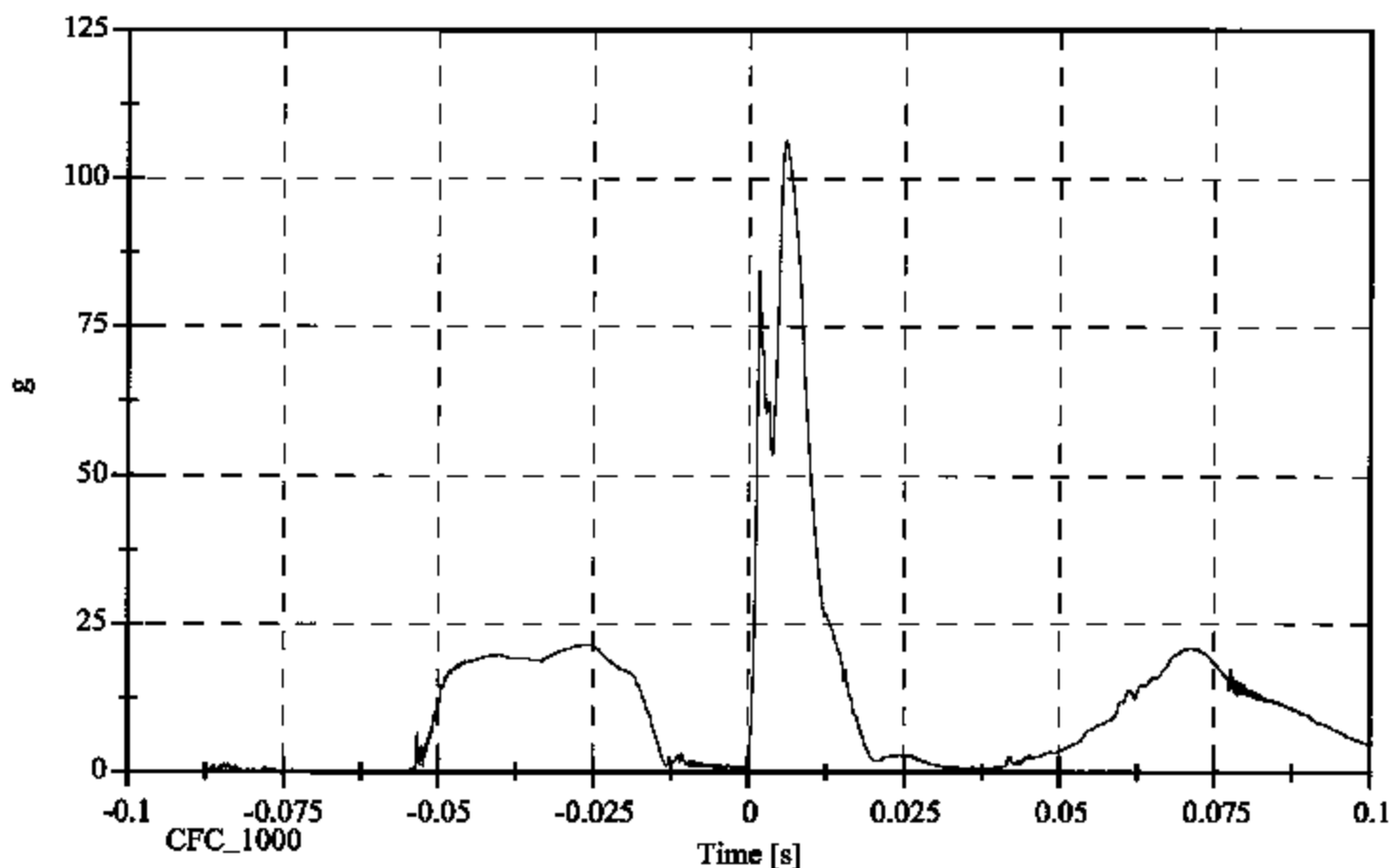
Maximum: 106.3 g

Average Acceleration: 11.2 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza
Headform Resultant

Max: 106.3 [g] at 0.006 [s]

Min: 0.0 [g] at -0.056 [s]

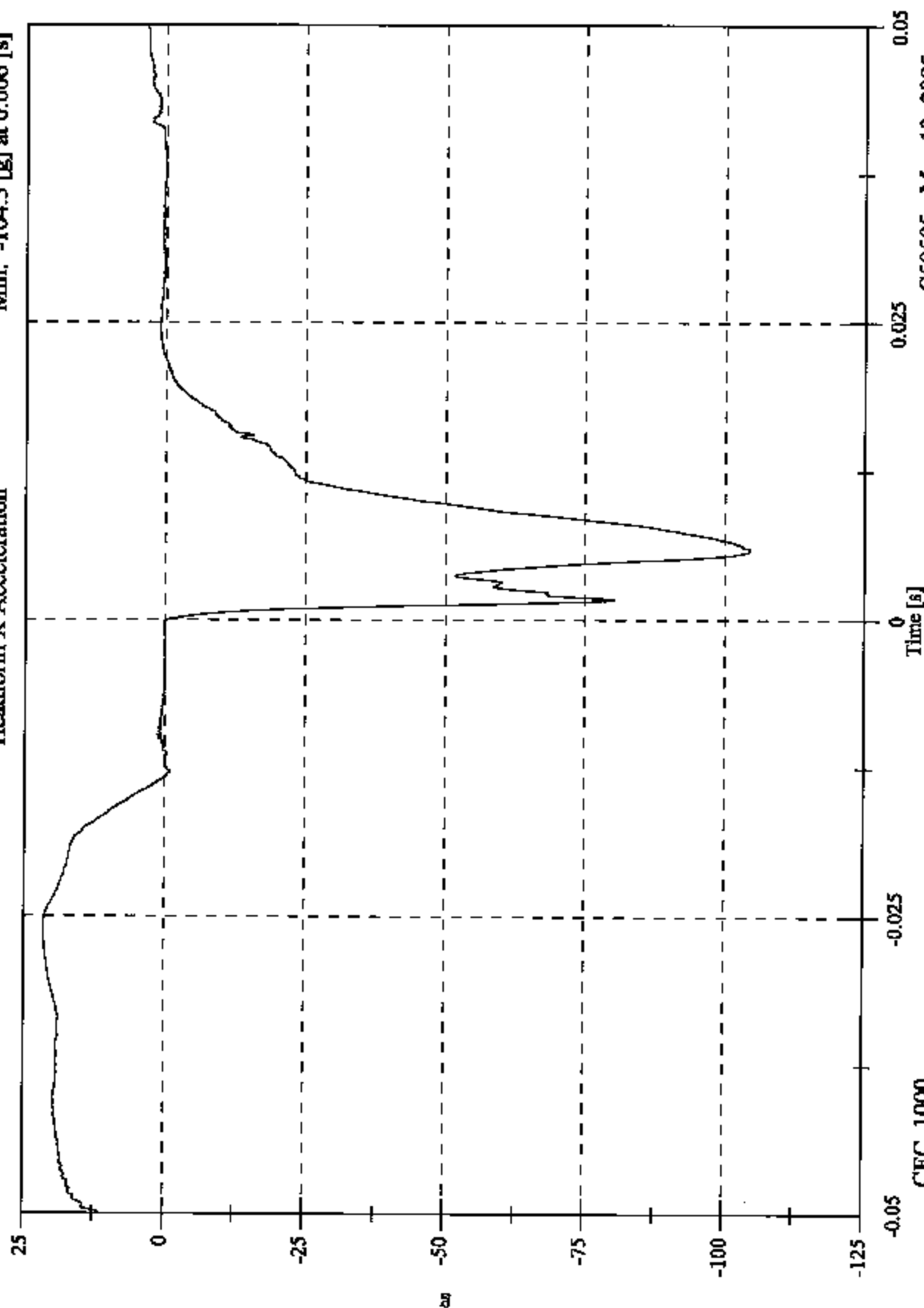


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 21.6 [g] at -0.026 [s]

Min: -104.5 [g] at 0.006 [s]



CFC_1000

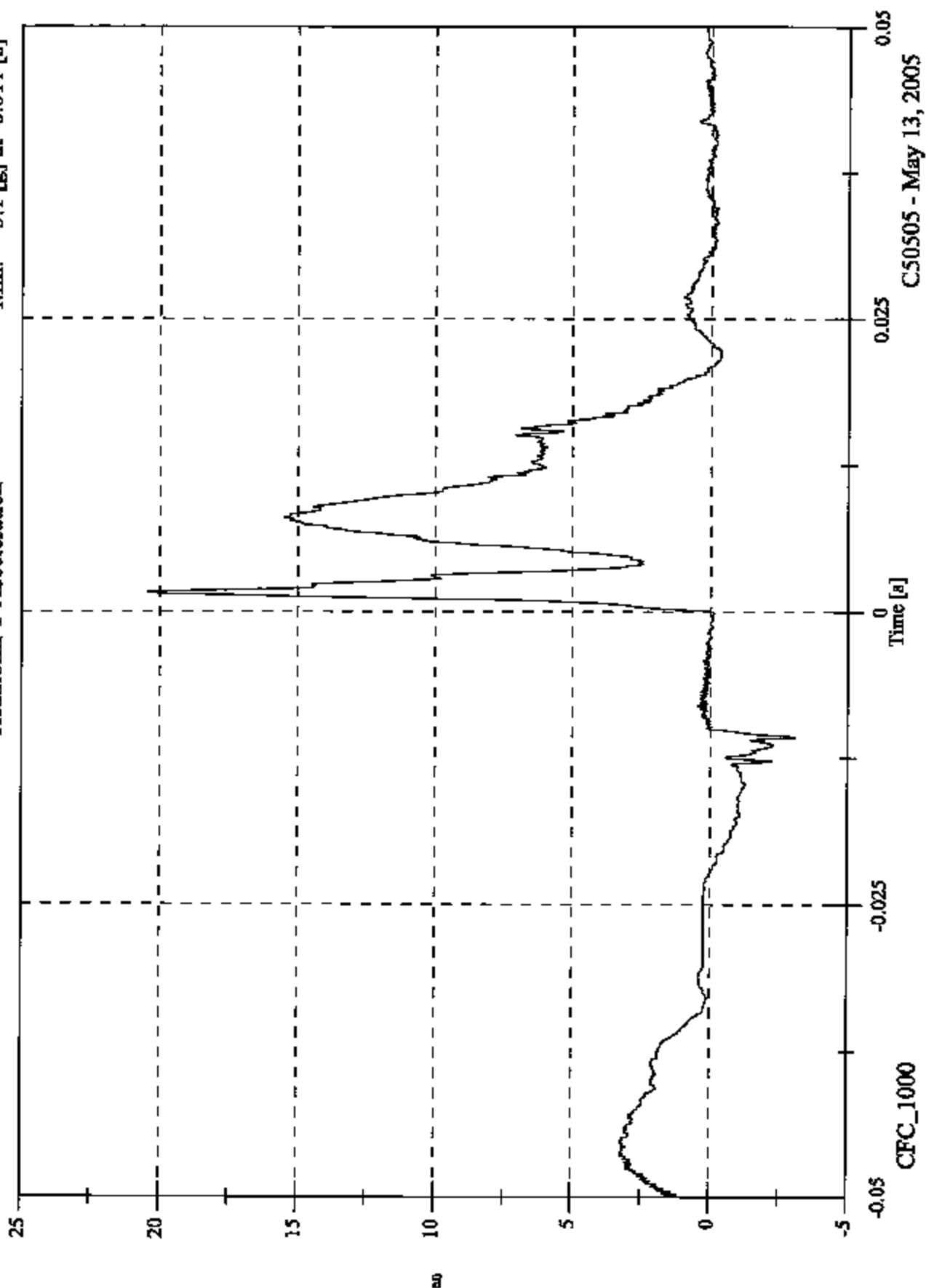
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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 20.4 [g] at 0.002 [s]

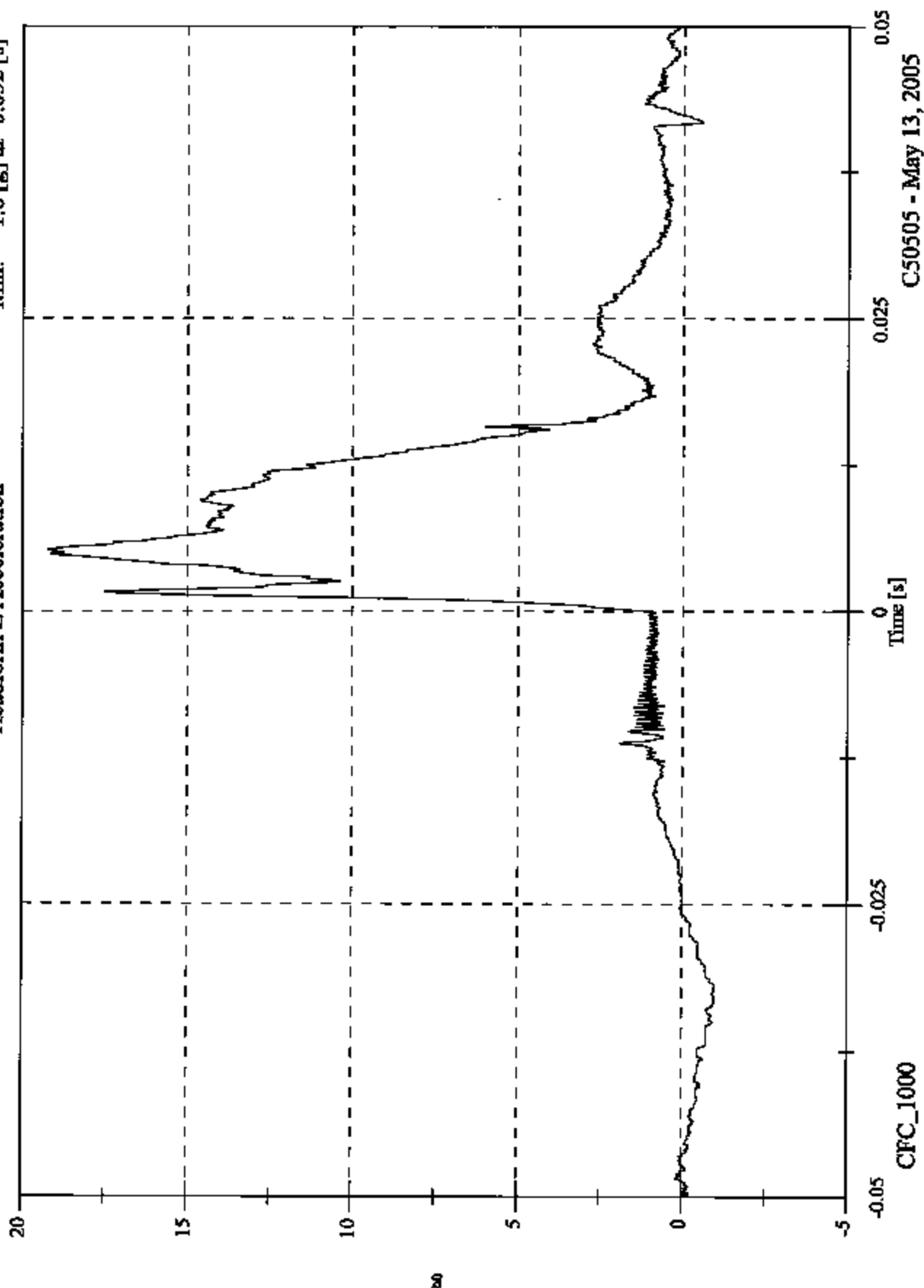
Min: -3.1 [g] at -0.011 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 19.2 [g] at 0.005 [s]
Min: -1.0 [g] at -0.032 [s]



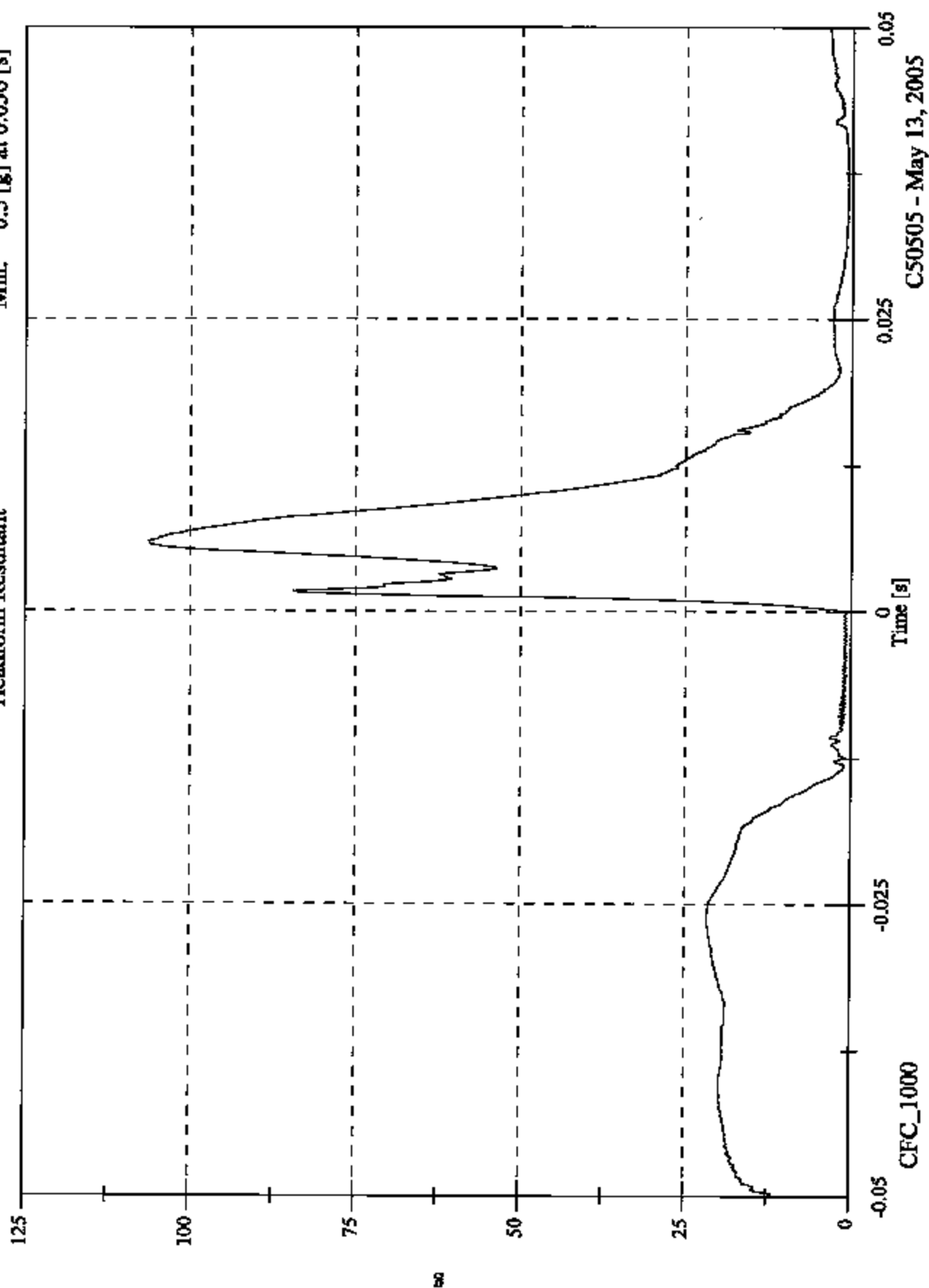
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 106.3 [g] at 0.006 [s]

Min: 0.5 [g] at 0.036 [s]

Headform Resultant

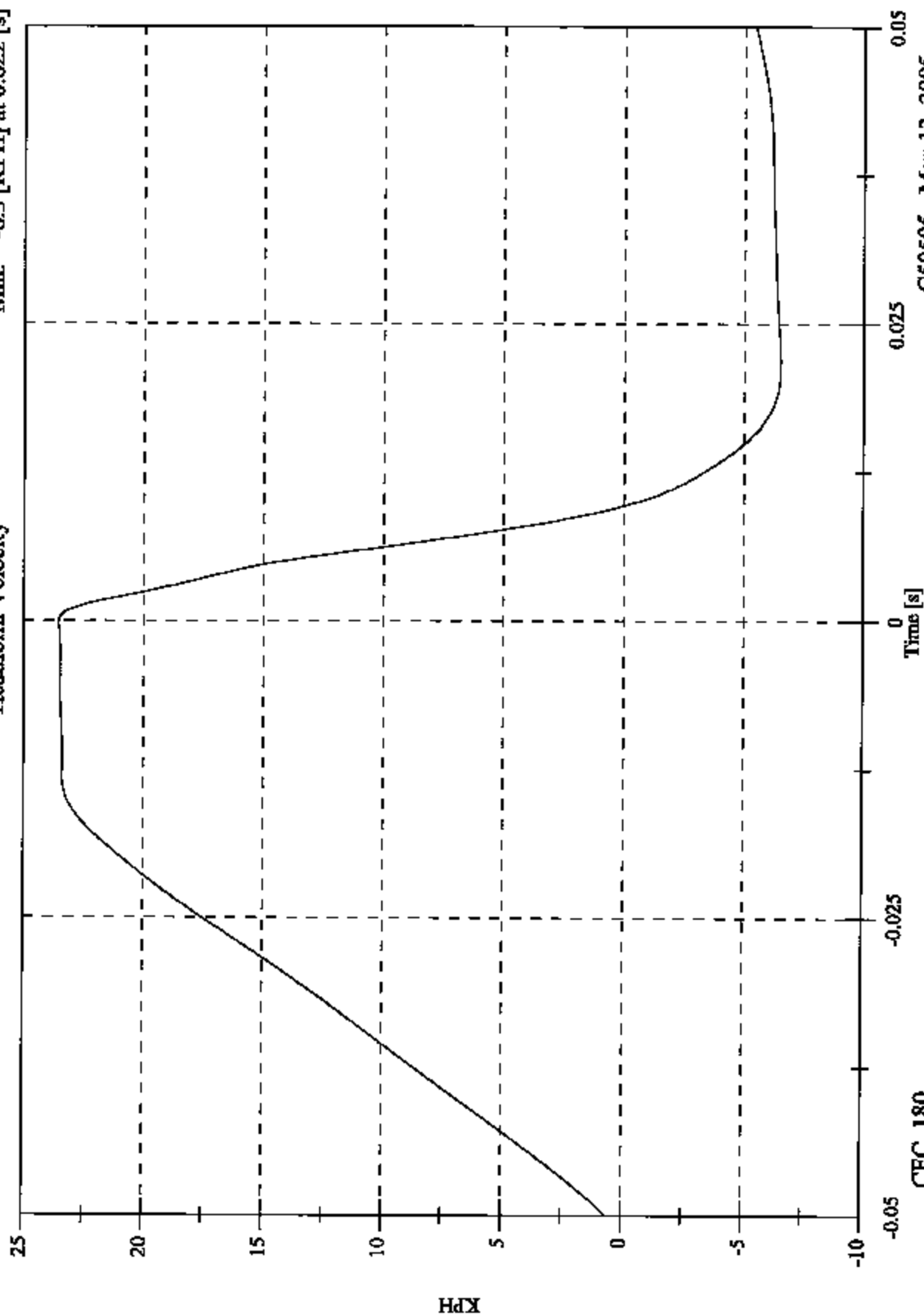


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.6 [KPH] at -0.000 [s]

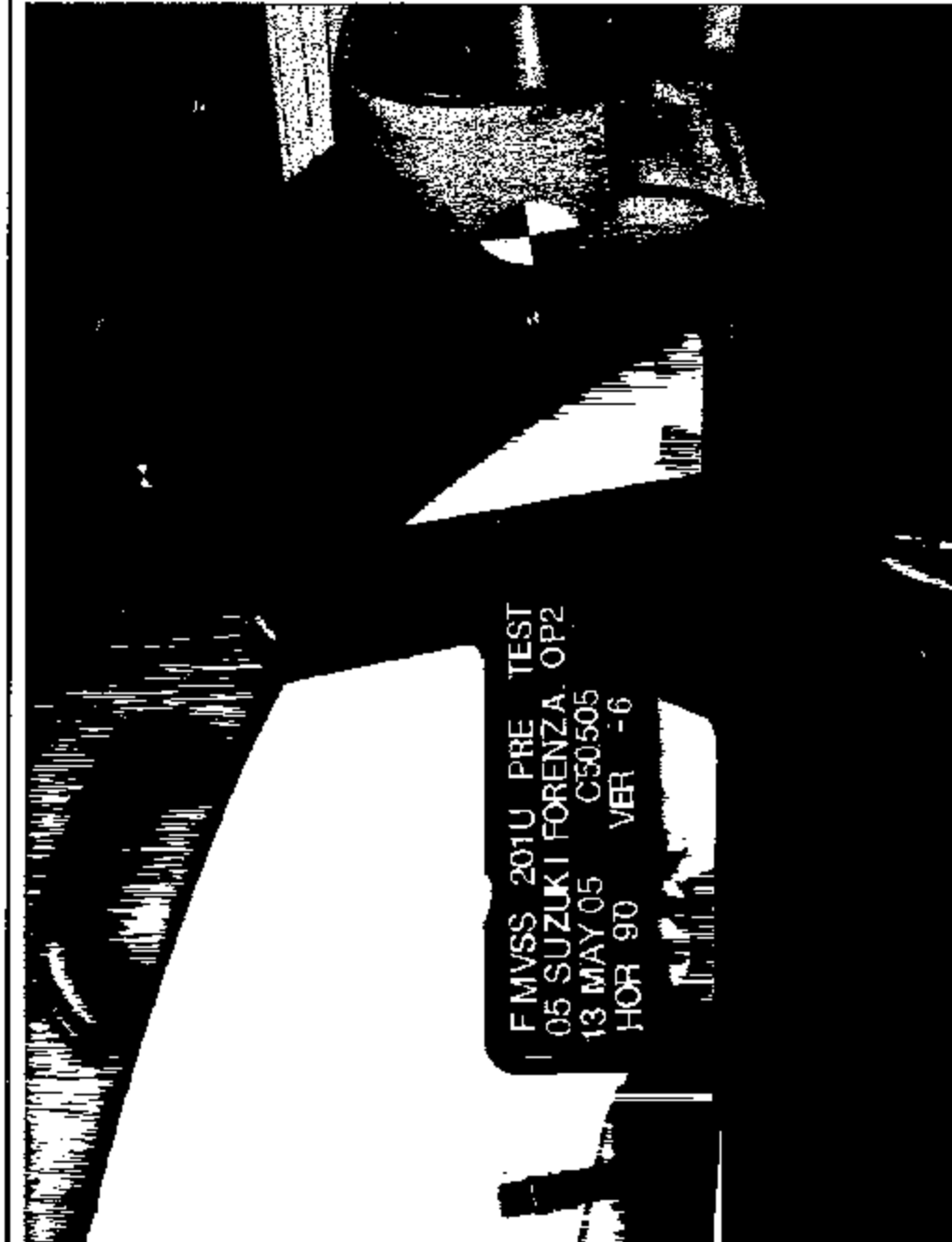
Min: -6.5 [KPH] at 0.022 [s]

Headform Velocity



CFC_180

C50505 - May 13, 2005



PRE-IMPACT OP2

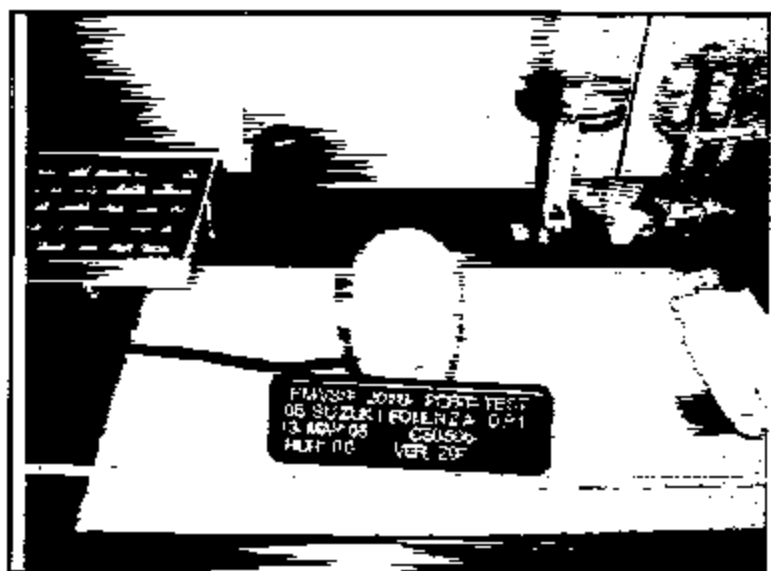


POST-IMPACT OP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	07
Test Date:	05/13/05
Target Location:	OTHER PILLAR
Target Code:	OPI
Horizontal Impact Angle:	90°
Vertical Impact Angle:	20°
Ambient Temperature:	22.8C°
Relative Humidity:	23.2
Time of Impact:	13:15
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	8	☒	mm right	☐ mm left
On Centerline	31		mm up	



POST-IMPACT OPI HEADFORM

Free Motion HIC	600.0
HIC(d)	619.1
Impact Velocity (kph)	23.64
HIC T1 (msec)	4.0
HIC T2 (msec)	12.0

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - OP1

FMH Headform 0642

Location: OP1

Test Date: May 13, 2005

Work File: OP1

TEST RESULTS

Lab Temperature: 22.8 C

HICd: 619.1

Lab Humidity: 23.2 %

HIC (36ms): 600.0

Velocity at Impact: 23.64 KPH

t1: 4.0 msec

t2: 12.0 msec

Free Flight Distance: 217.44 mm

Duration: 8.0 msec

Maximum: 121.8 g

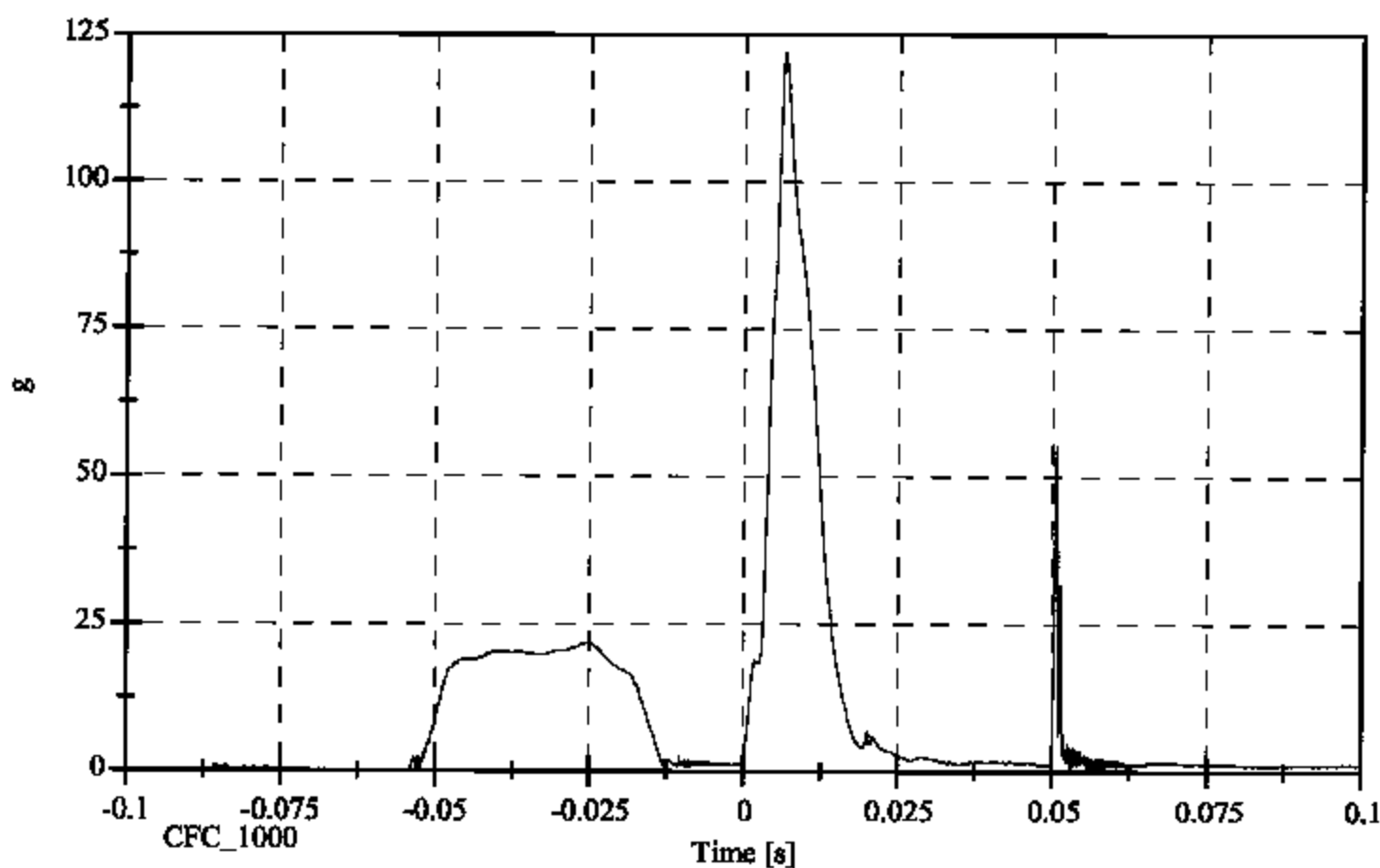
Average Acceleration: 9.0 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 121.8 [g] at 0.006 [s]

Headform Resultant

Min: 0.0 [g] at -0.093 [s]

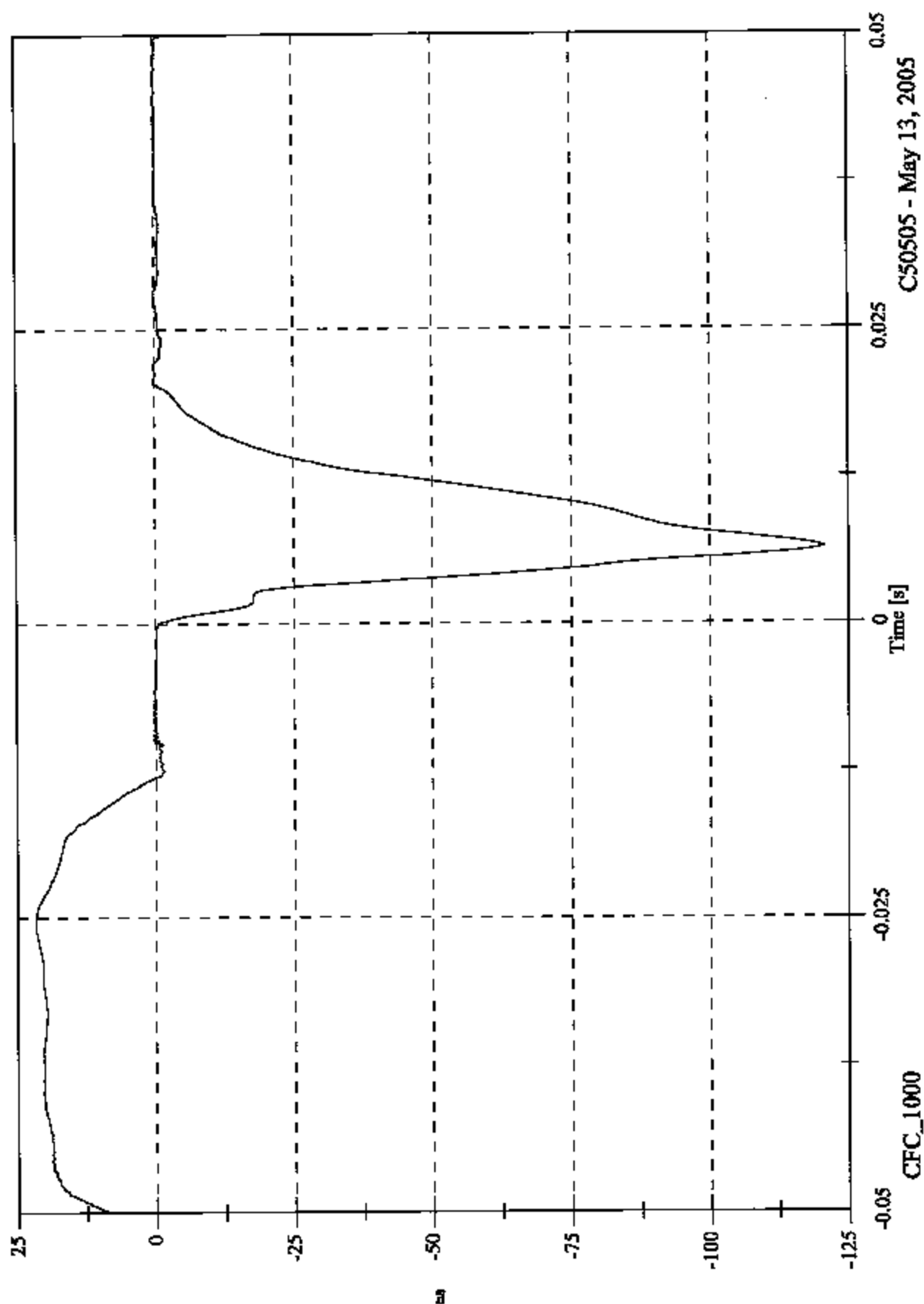


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 21.8 [g] at -0.026 [s]

Min: -120.6 [g] at 0.006 [s]

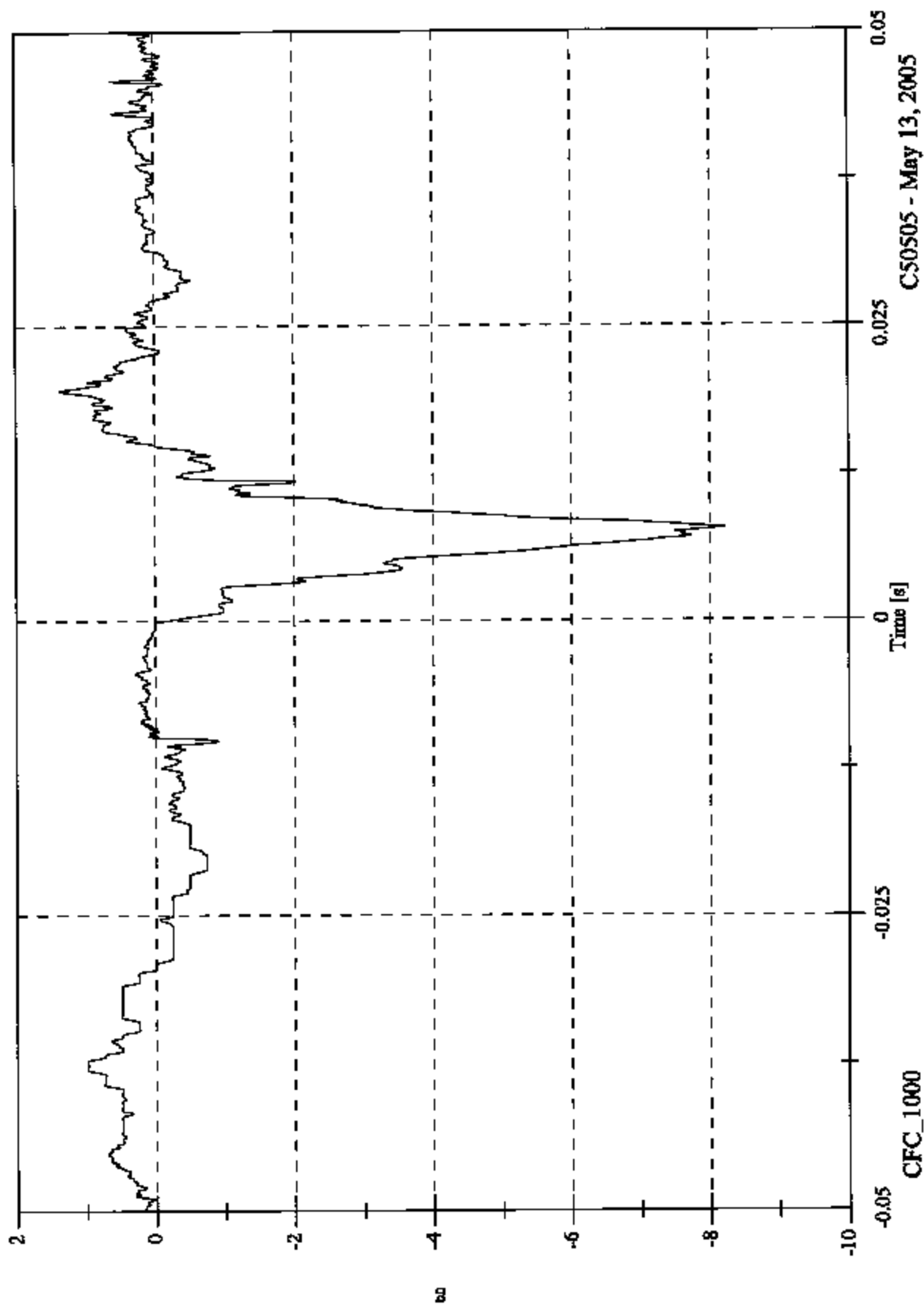


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 1.4 [g] at 0.020 [s]

Min: -8.2 [g] at 0.008 [s]

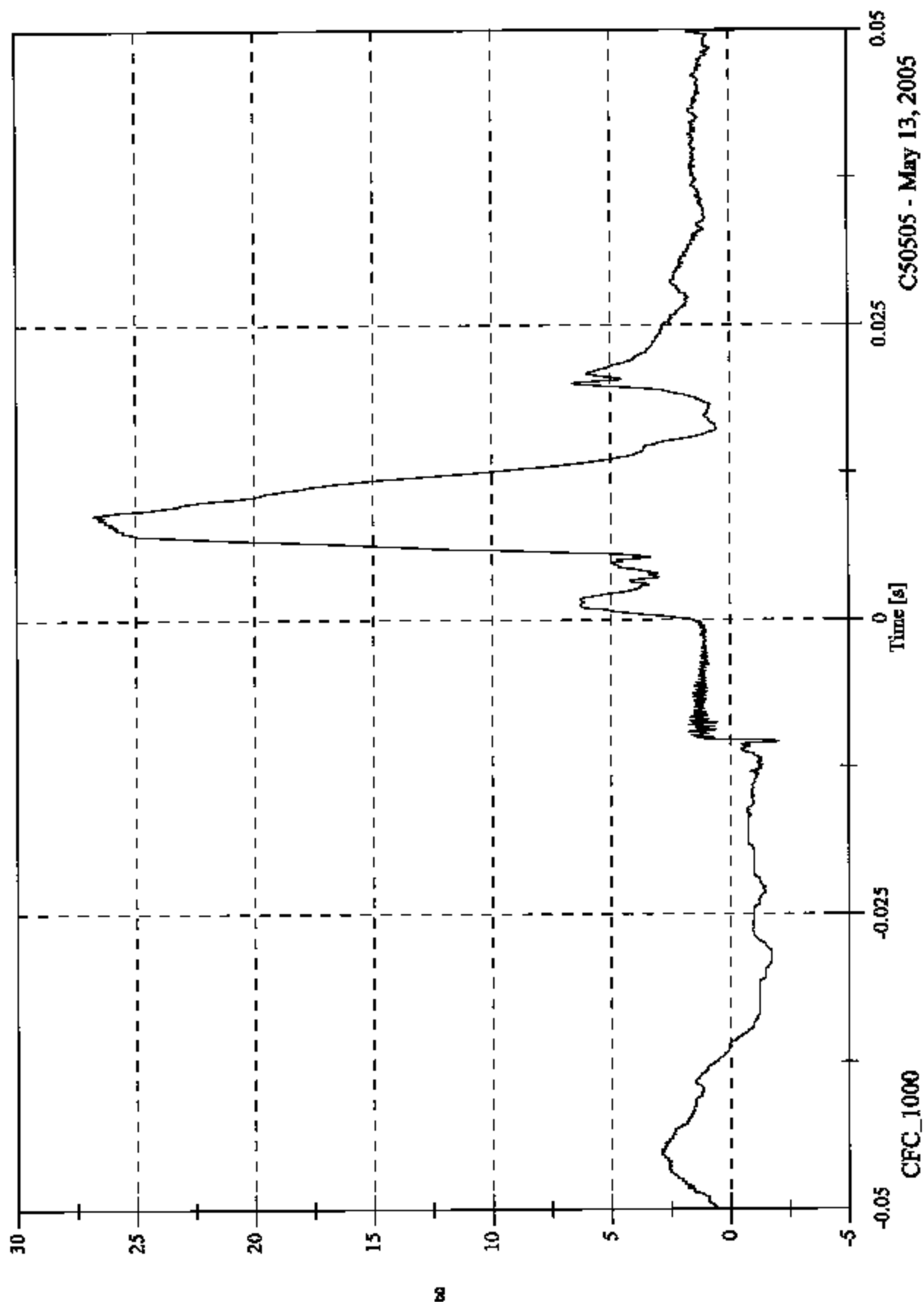


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FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 26.8 [g] at 0.009 [s]
Min: -2.1 [g] at -0.010 [s]

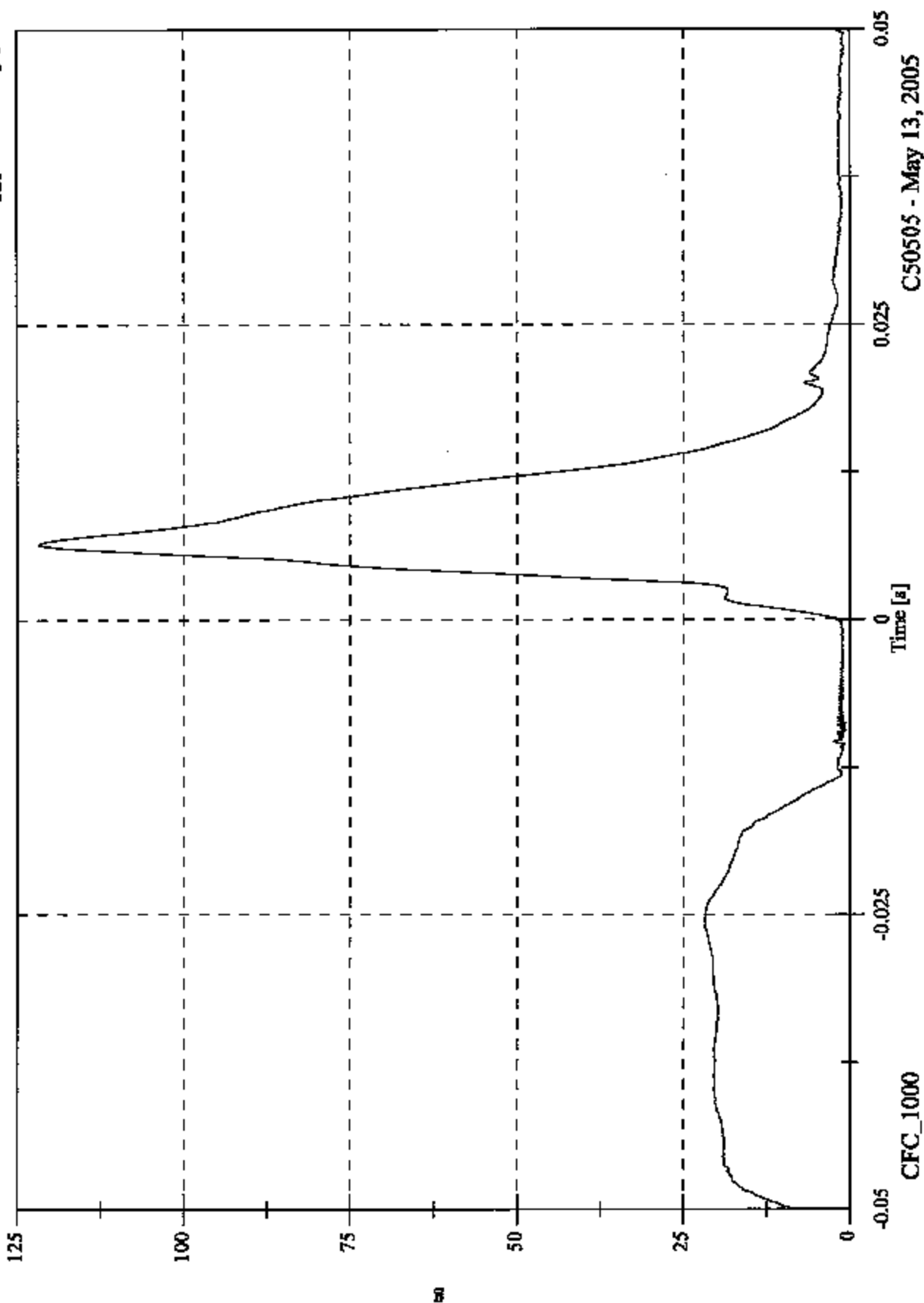


C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

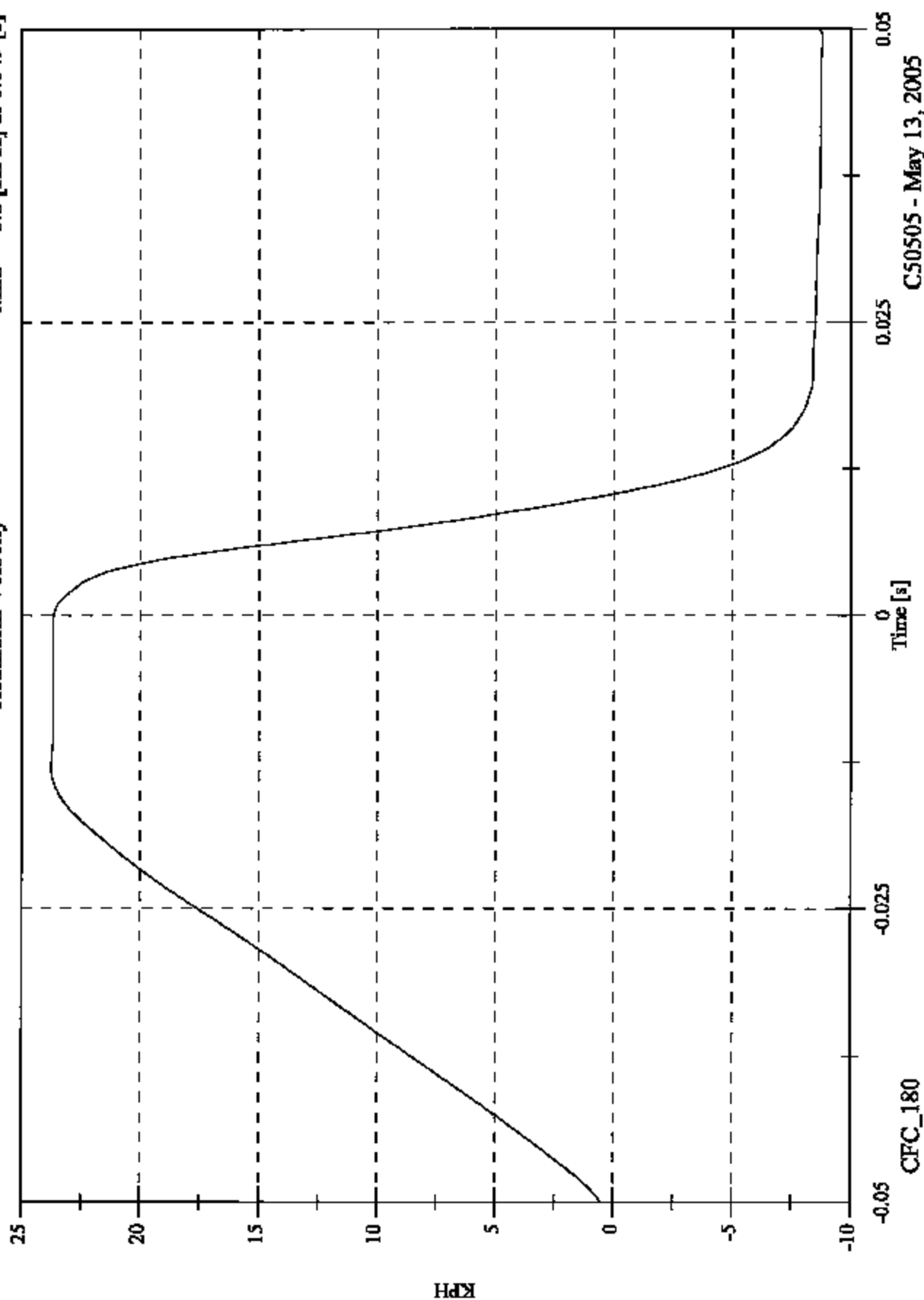
Max: 121.8 [g] at 0.006 [s]
Min: 0.6 [g] at -0.009 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.7 [KPH] at -0.013 [s]
 Min: -8.8 [KPH] at 0.049 [s]

Headform Velocity



C50505 - May 13, 2005



PRE-IMPACT OPT



POST-IMPACT OPI

8754-FMH-06

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	08
Test Date:	05/13/05
Target Location:	B-PILLAR
Target Code:	BP2
Horizontal Impact Angle:	270°
Vertical Impact Angle:	0°
Ambient Temperature:	22.7C°
Relative Humidity:	25.1
Time of Impact:	14:20
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	7	mm right	x mm left
On Centerline	13	mm up	



POST-IMPACT BP2 HEADFORM

Free Motion HIC	569.5
HIC(d)	596.0
Impact Velocity (kph)	23.46
HIC T1 (msec)	2.0
HIC T2 (msec)	7.6

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - BP2

FMH Headform 0355

Location: BP2

Test Date: May 13, 2005

Work File: BP2

TEST RESULTS

Lab Temperature: 22.7 C

HICd: 596.0

Lab Humidity: 25.1 %

HIC (36ms): 569.5

Velocity at Impact: 23.46 KPH

t1: 2.0 msec

t2: 7.6 msec

Free Flight Distance: 216.67 mm

Duration: 5.6 msec

Maximum: 133.7 g

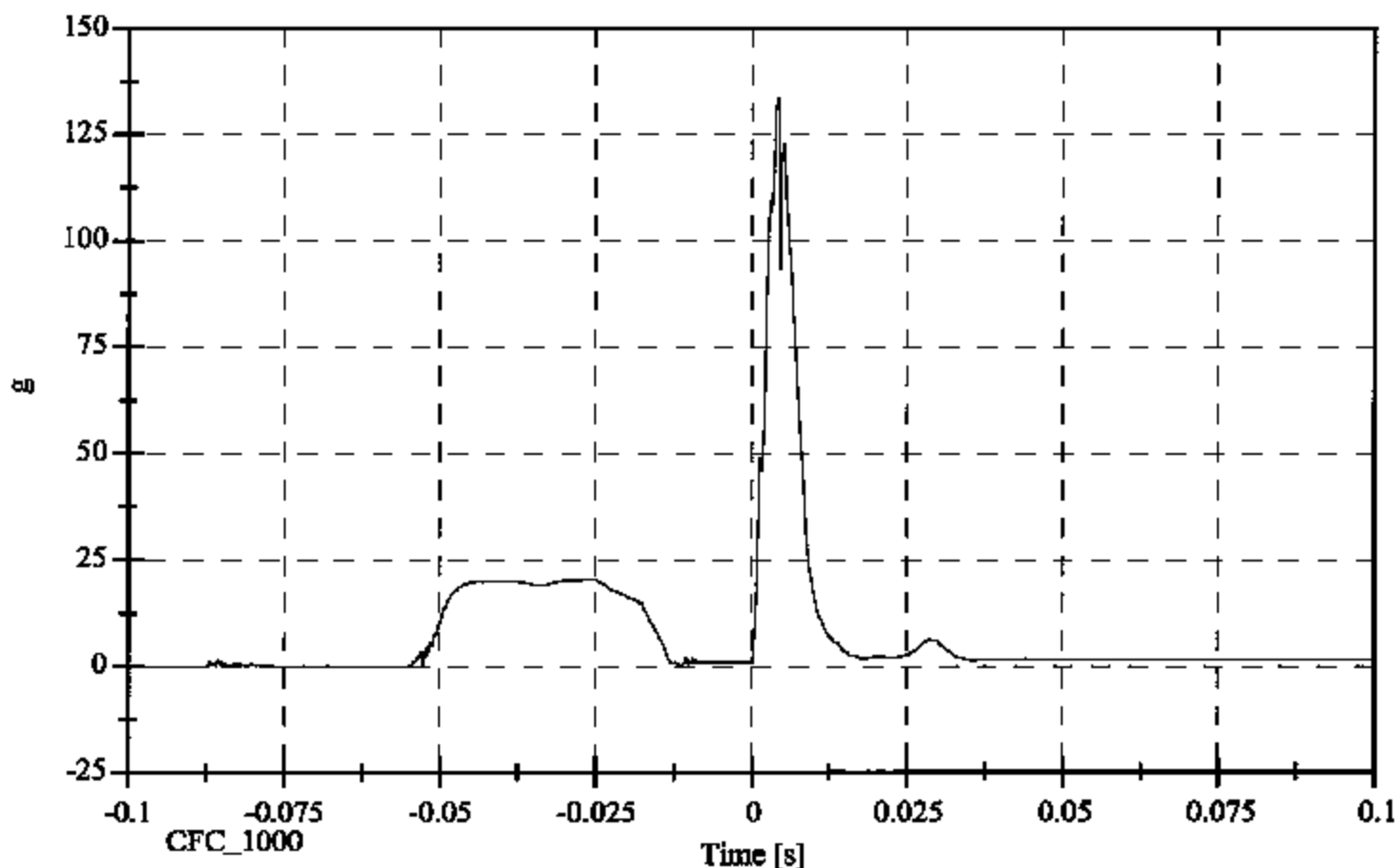
Average Acceleration: 8.0 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 133.7 [g] at 0.004 [s]

Headform Resultant

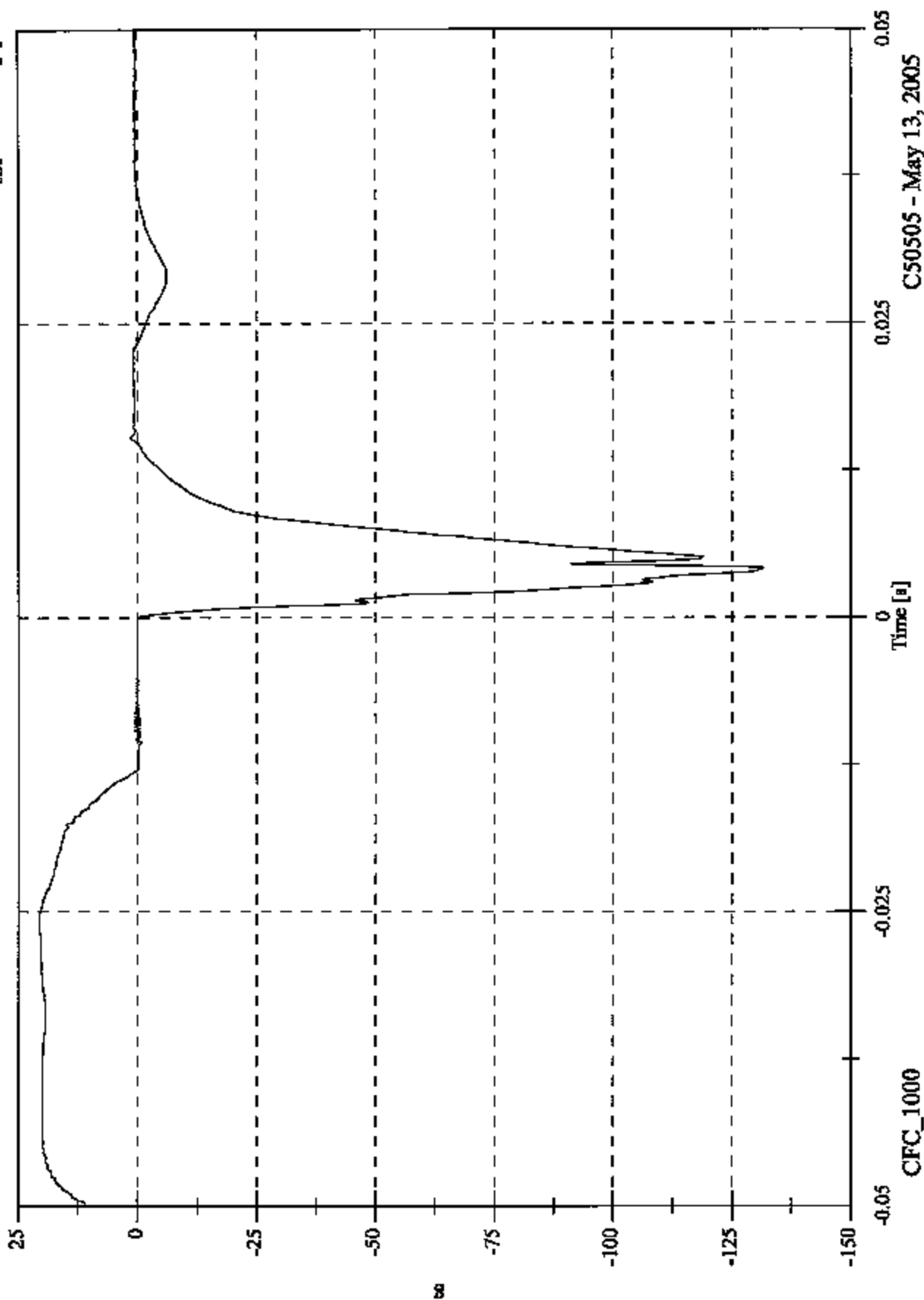
Min: -0.0 [g] at -0.099 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 20.5 [g] at -0.027 [s]
Min: -131.5 [g] at 0.004 [s]



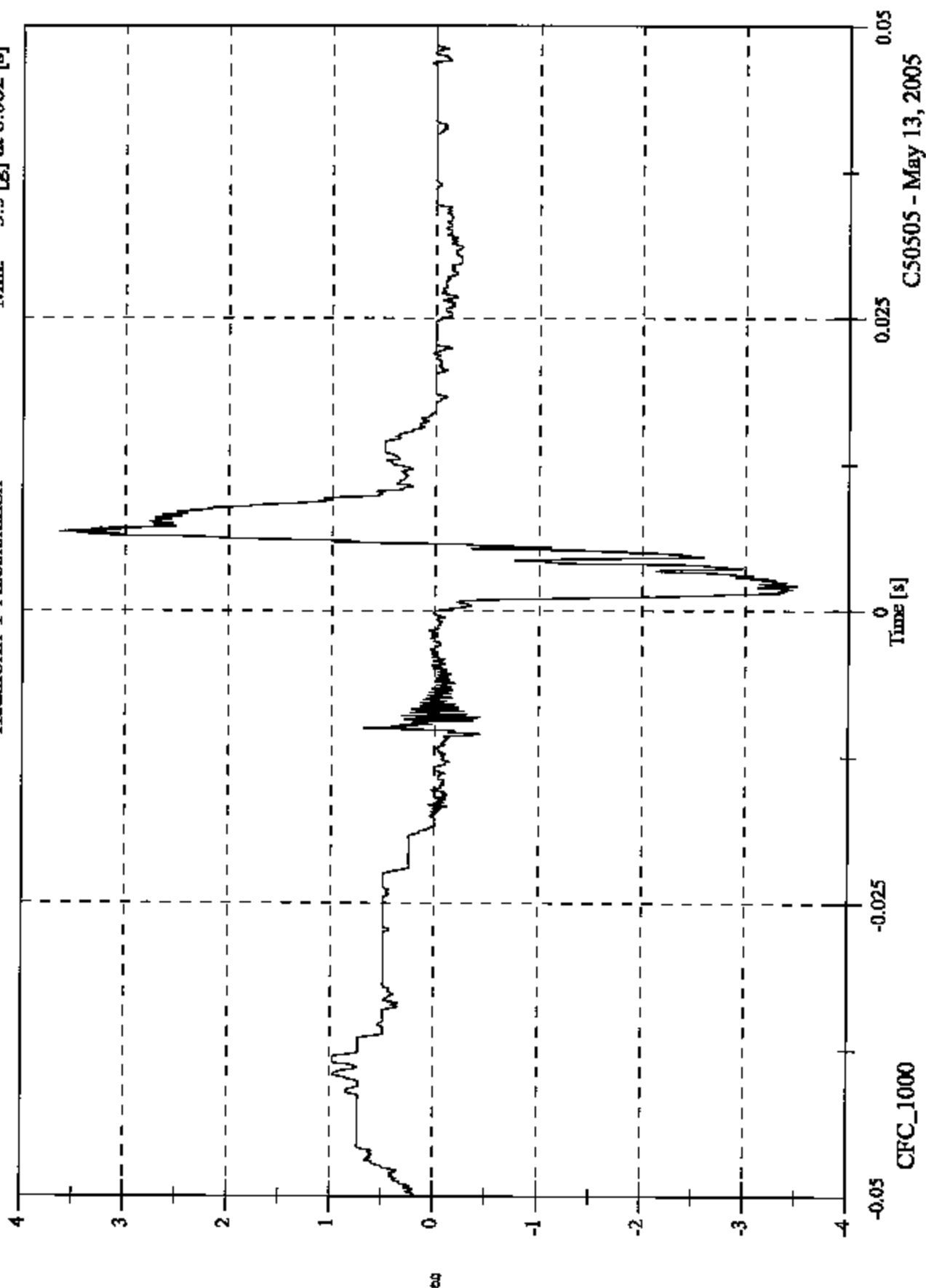
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 3.6 [g] at 0.007 [s]

Min: -3.5 [g] at 0.002 [s]

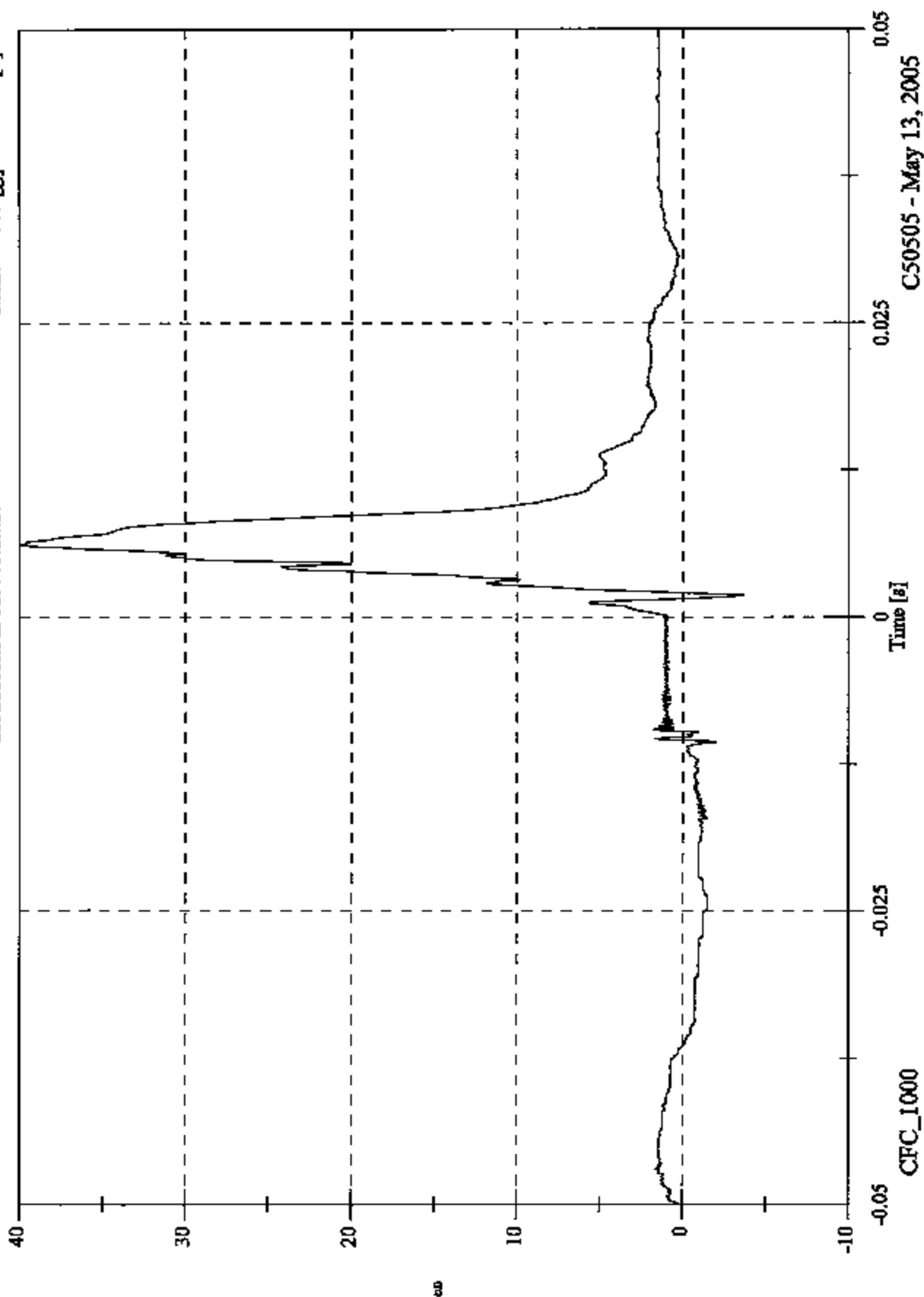


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 39.9 [g] at 0.006 [s]

Min: -3.6 [g] at 0.002 [s]

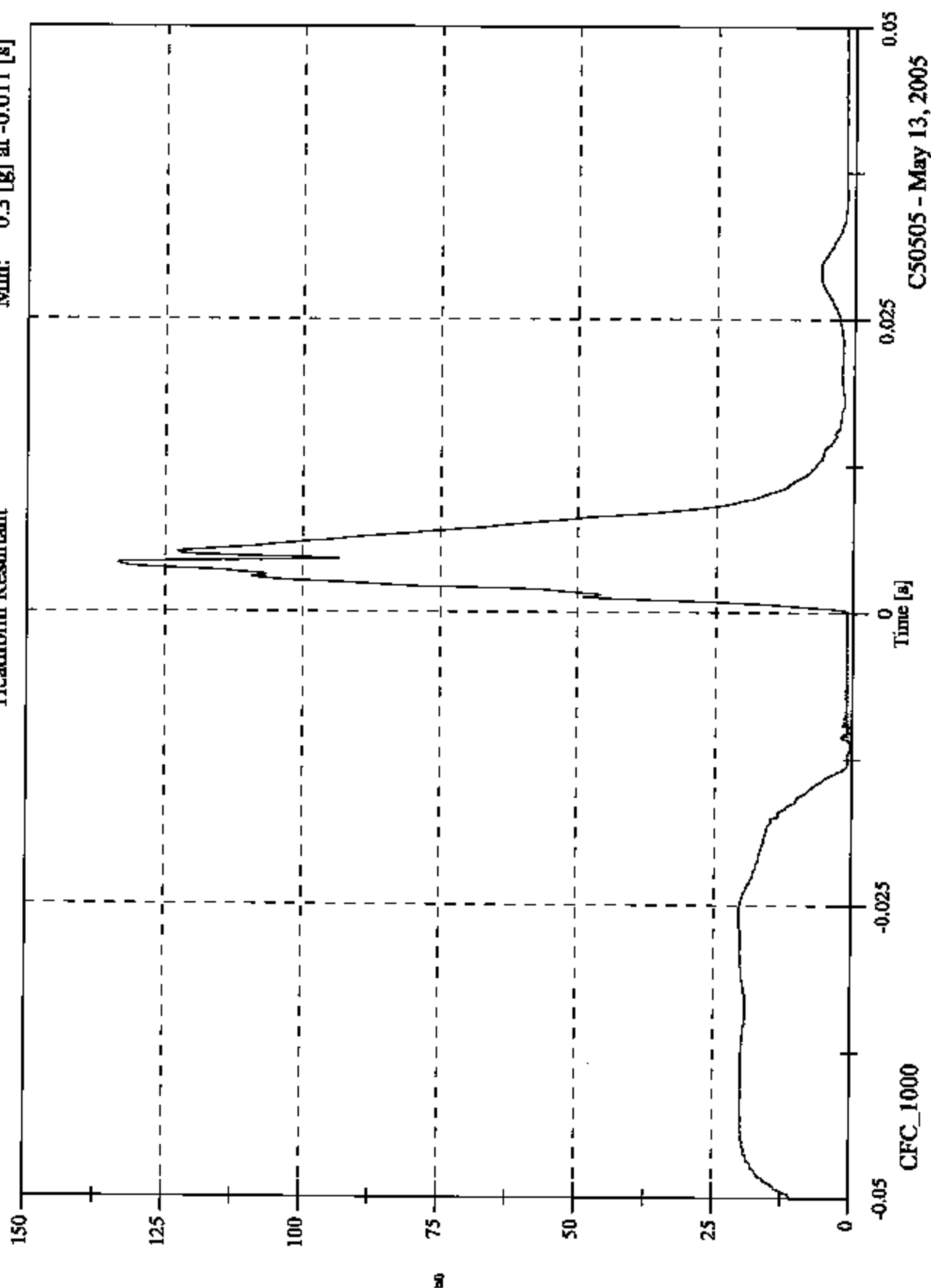


C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

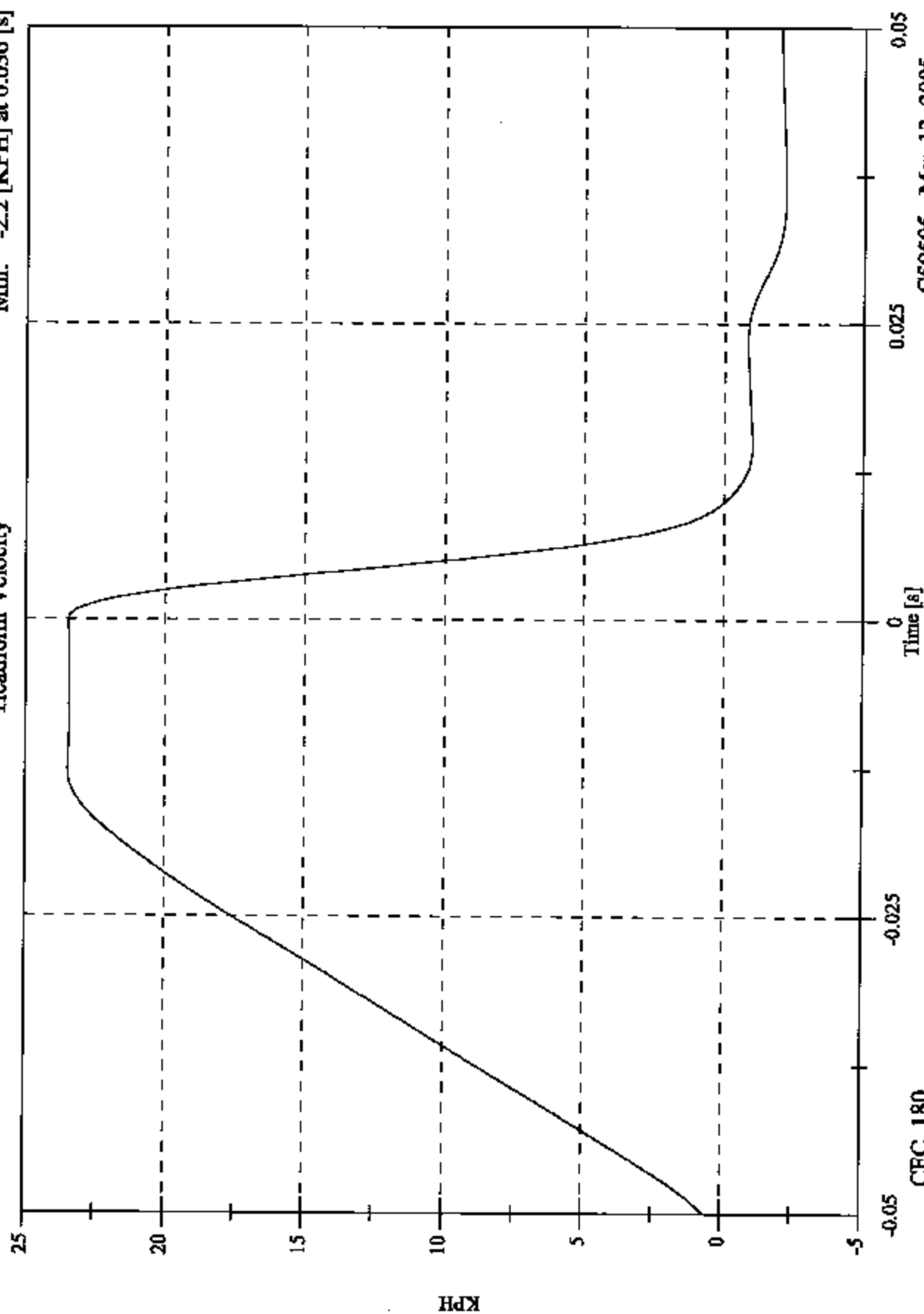
Max: 133.7 [g] at 0.004 [s]
Min: 0.3 [g] at -0.011 [s]



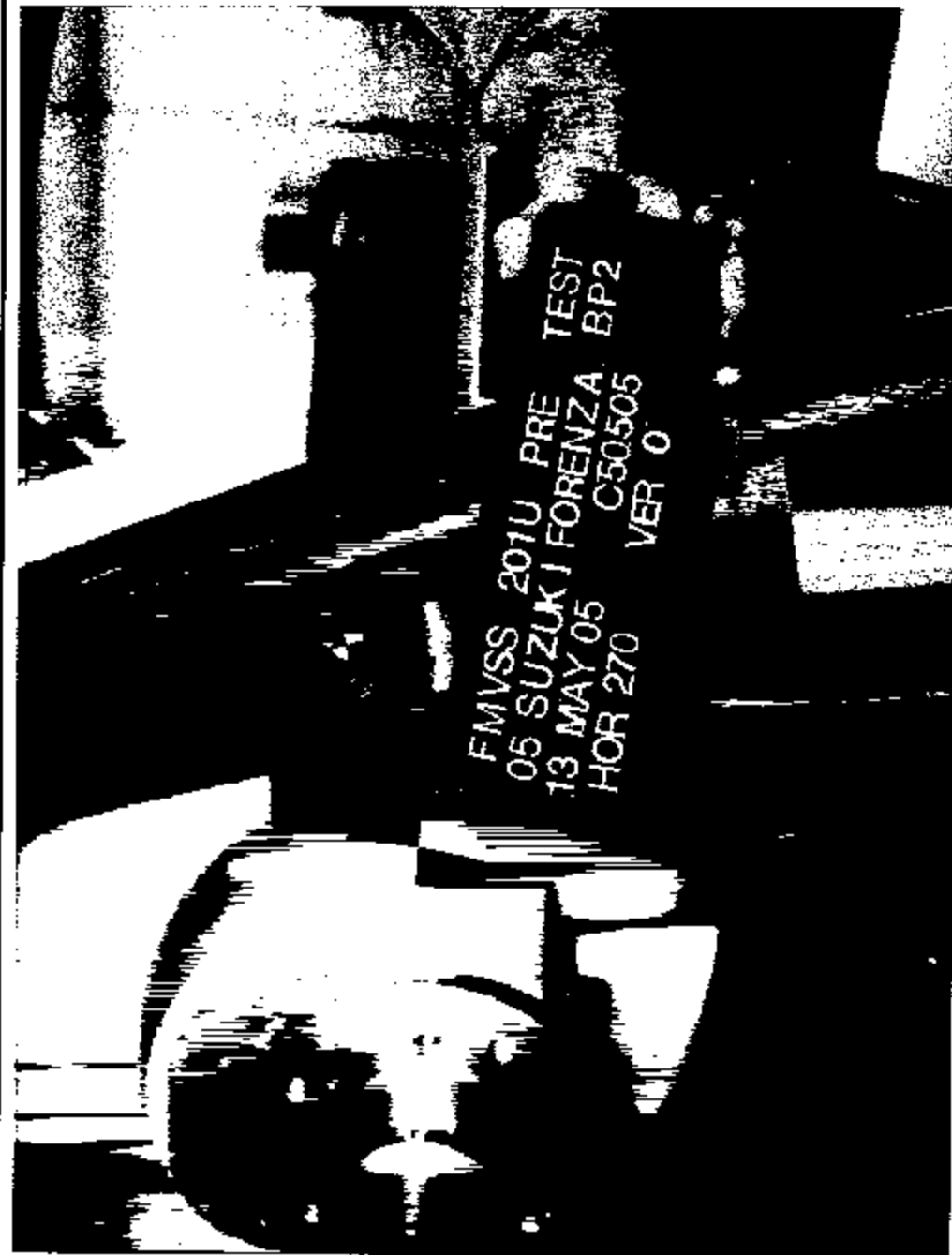
FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.5 [KPH] at -0.000 [s]
Min: -2.2 [KPH] at 0.036 [s]

Headform Velocity



C50505 - May 13, 2005



PRE-IMPACT BP2

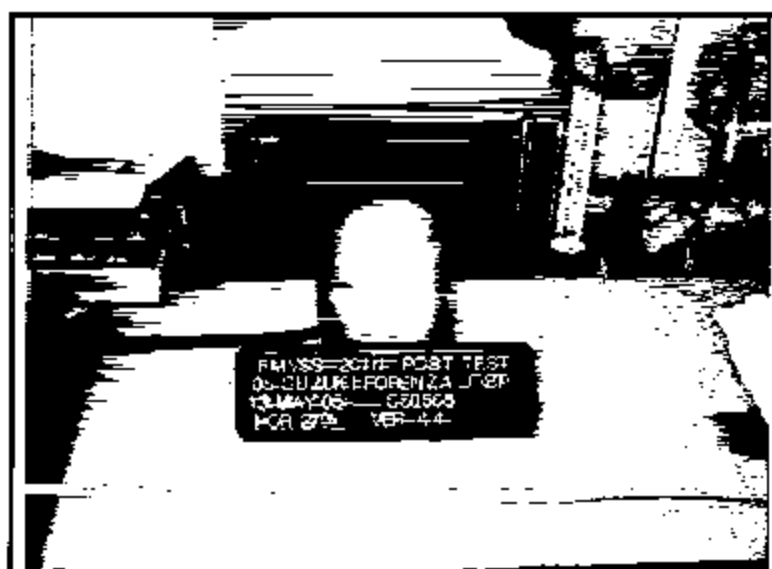


POST-IMPACT BP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	09
Test Date:	05/13/05
Target Location:	UPPER ROOF
Target Code:	URBP
Horizontal Impact Angle:	270°
Vertical Impact Angle:	44°
Ambient Temperature:	22.5C°
Relative Humidity:	25.3
Time of Impact:	14:45
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	6	☐ mm right	☒ mm left
On Centerline	43	mm up	



POST-IMPACT URBP HEADFORM

Free Motion HIC	885.8
HIC(d)	834.7
Impact Velocity (kph)	23.78
HIC T1 (msec)	3.7
HIC T2 (msec)	10.3

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - URBP

FMH Headform 0062

Location: URBP

Test Date: May 13, 2005

Work File: URBP

TEST RESULTS

Lab Temperature: 22.5 C

HICd: 834.7

Lab Humidity: 25.3 %

HIC (36ms): 885.8

Velocity at Impact: 23.78 KPH

t1: 3.7 msec

t2: 10.3 msec

Free Flight Distance: 221.59 mm

Duration: 6.6 msec

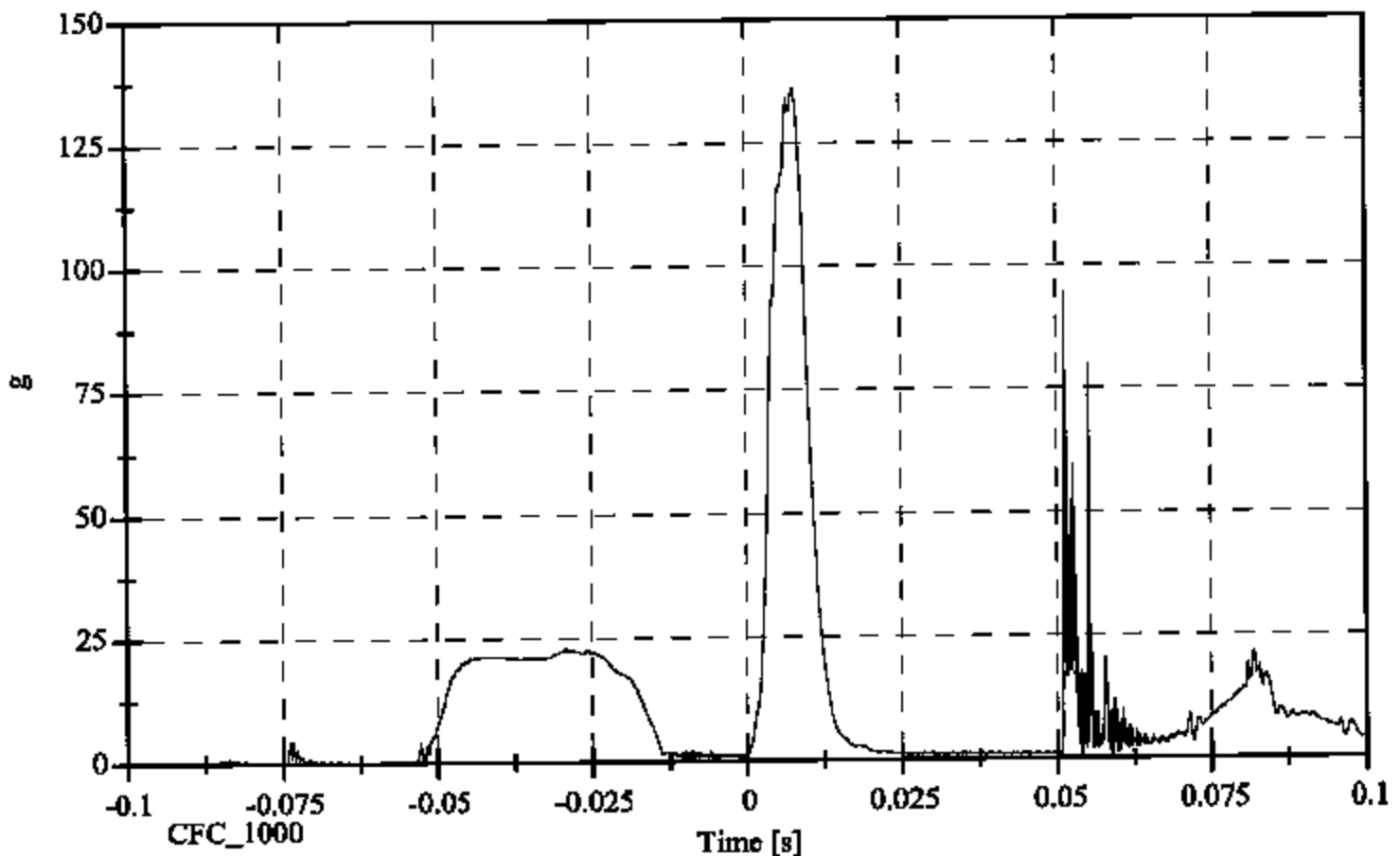
Maximum: 136.2 g

Average Acceleration: 10.9 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza
Headform Resultant

Max: 136.2 [g] at 0.008 [s]

Min: 0.0 [g] at -0.088 [s]

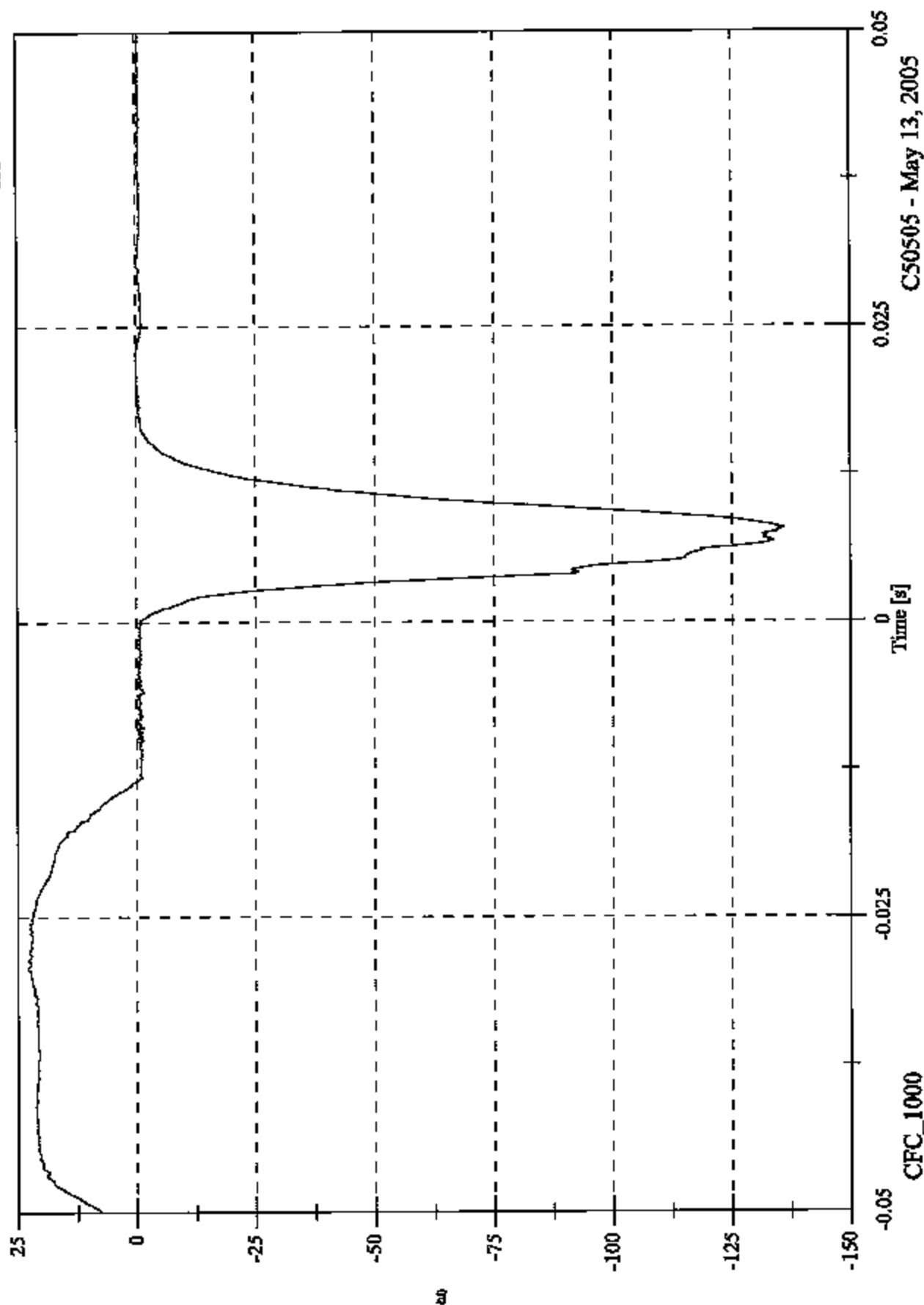


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 22.8 [g] at -0.029 [s]

Min: -136.2 [g] at 0.008 [s]



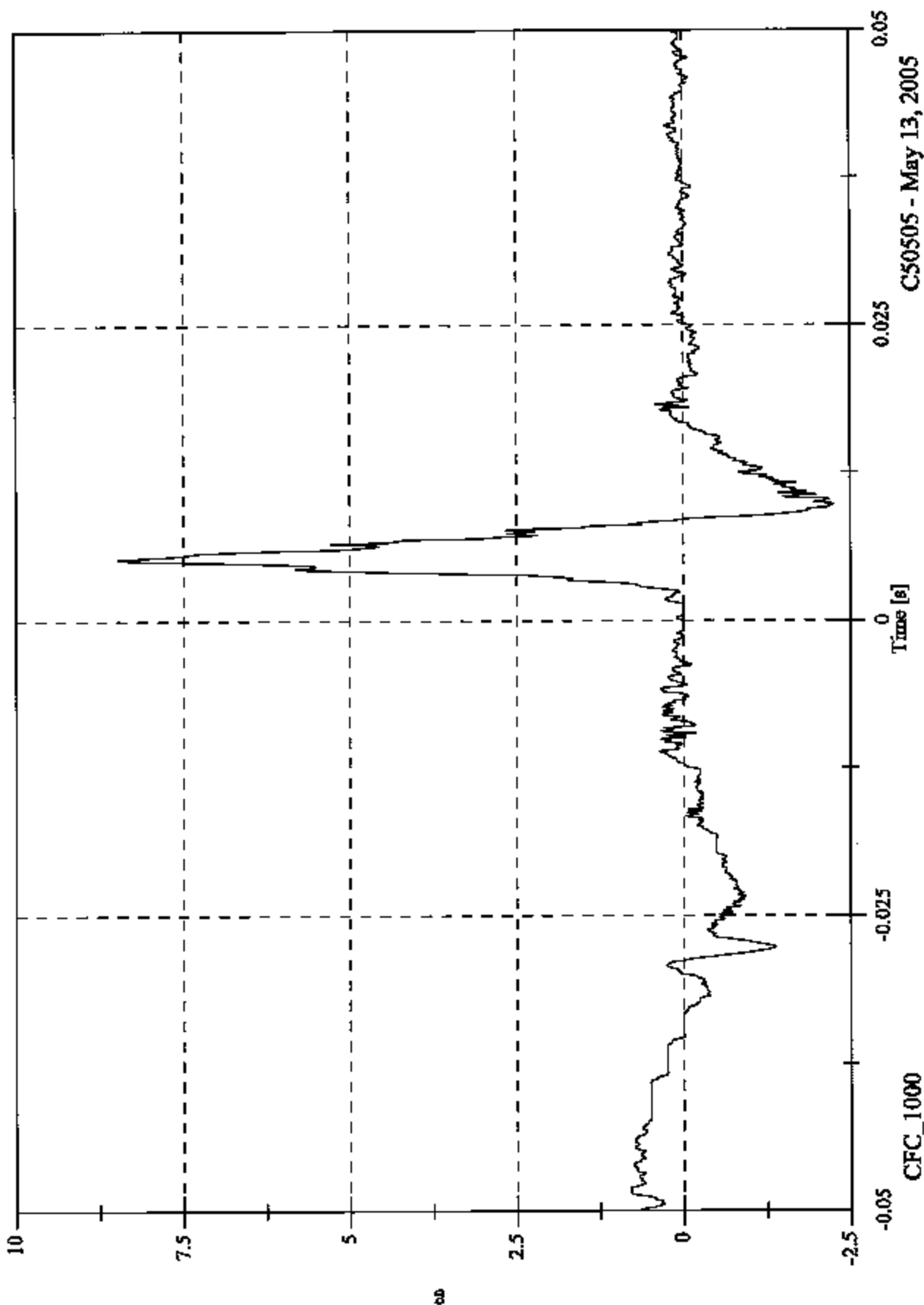
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 8.5 [g] at 0.005 [s]

Min: -2.2 [g] at 0.010 [s]

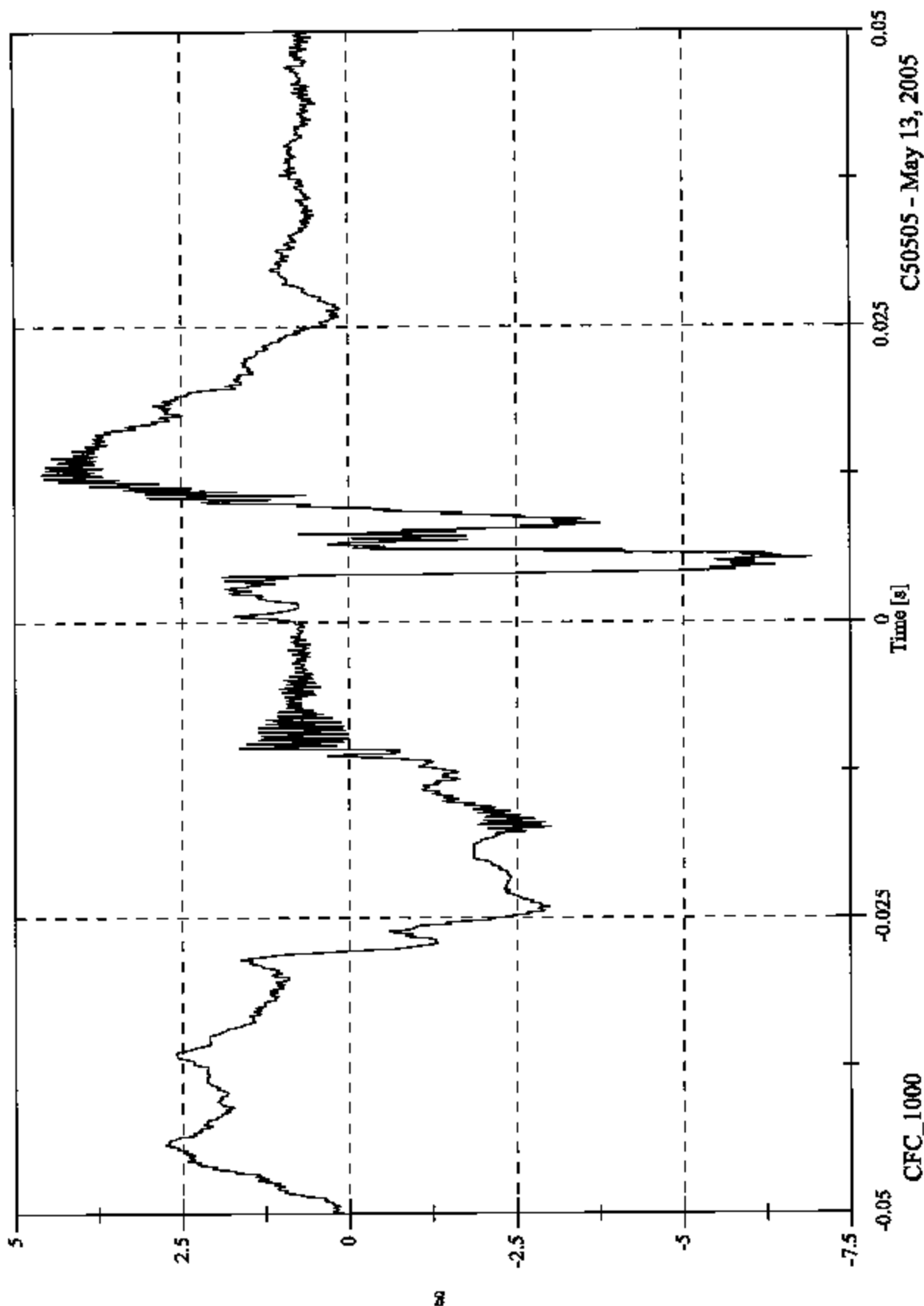


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 4.6 [g] at 0.013 [s]

Min: -6.9 [g] at 0.005 [s]

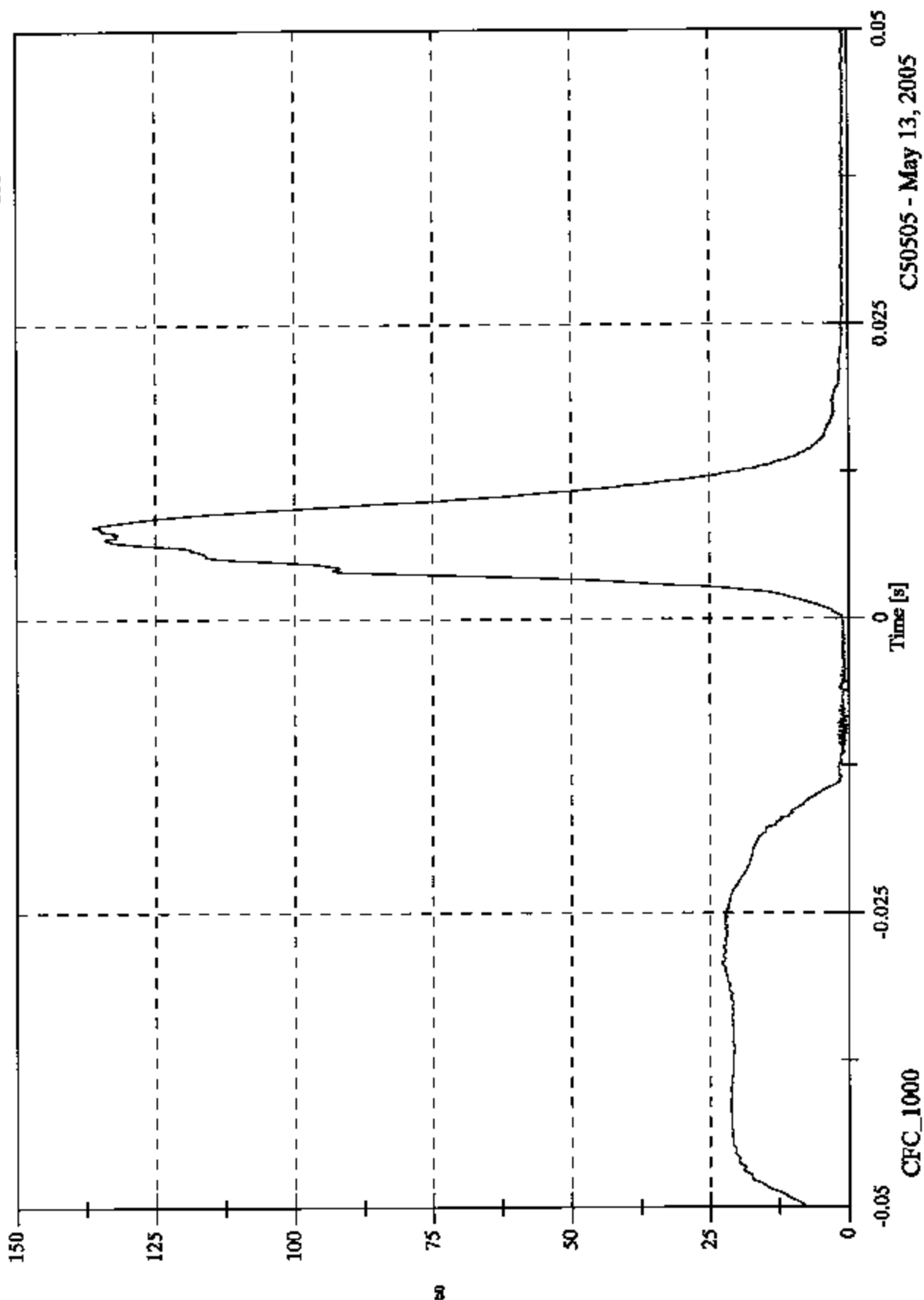


C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 136.2 [g] at 0.008 [s]
Min: 0.4 [g] at -0.009 [s]

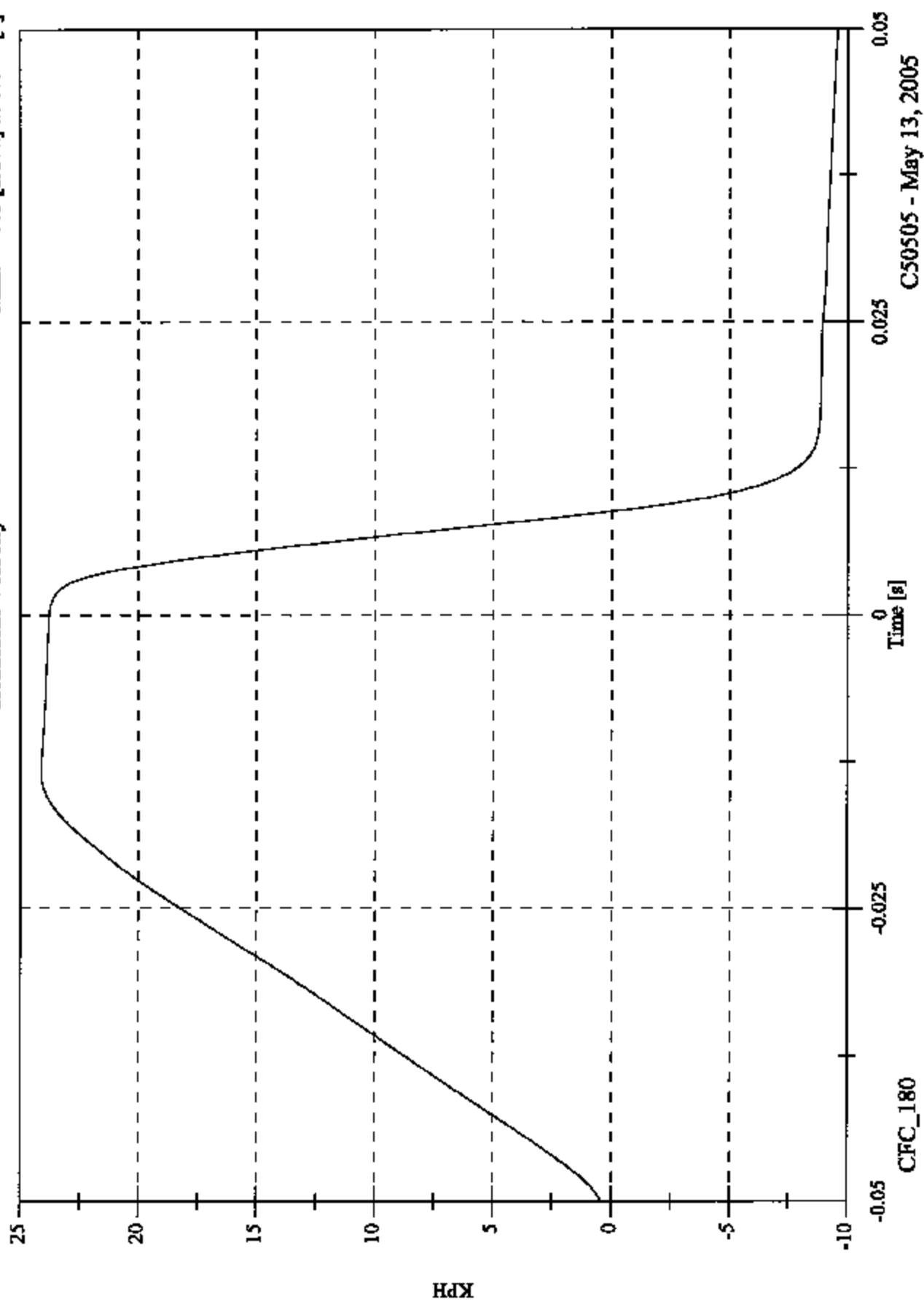


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 24.1 [KPH] at -0.013 [s]

Min: -9.6 [KPH] at 0.050 [s]

Headform Velocity





PRE-IMPACT URBP

PHOTO NOT AVAILABLE

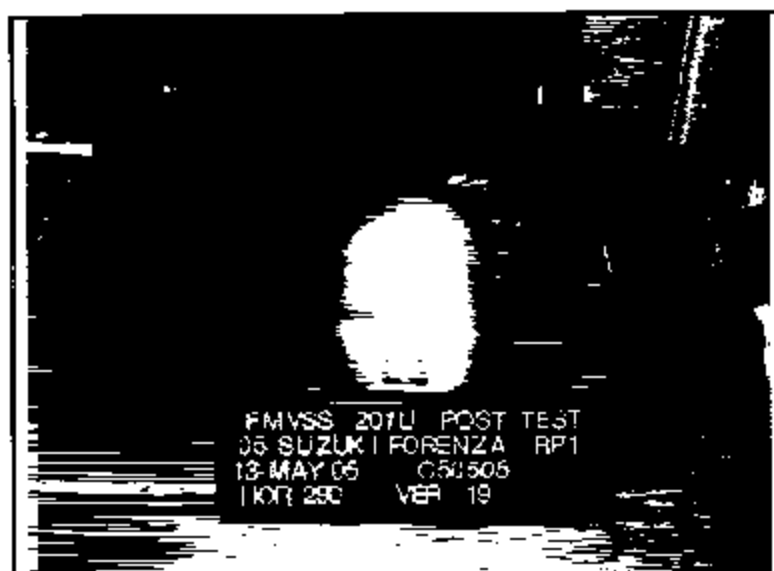
POST-IMPACT URBP

8754-FMH-06

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SBE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	10
Test Date:	05/13/05
Target Location:	REAR PILLAR
Target Code:	RP1
Horizontal Impact Angle:	280°
Vertical Impact Angle:	19°
Ambient Temperature:	23.0C°
Relative Humidity:	25
Time of Impact:	15:30
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	0	☐ mm right	☐ mm left
On Centerline	40	☐ mm up	



POST-IMPACT RP1 HEADFORM

Free Motion HIC	469.9
HIC(d)	520.9
Impact Velocity (kph)	23.3
HIC T1 (msec)	33
HIC T2 (msec)	11.8

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - RP1

FMH Headform 805

Location: RP1

Test Date: May 13, 2005

Work File: RP1

TEST RESULTS

Lab Temperature: 23.0 C

HICd: 520.9

Lab Humidity: 25.0 %

HIC (36ms): 469.9

Velocity at Impact: 23.30 KPH

t1: 3.3 msec

t2: 11.8 msec

Free Flight Distance: 213.90 mm

Duration: 8.5 msec

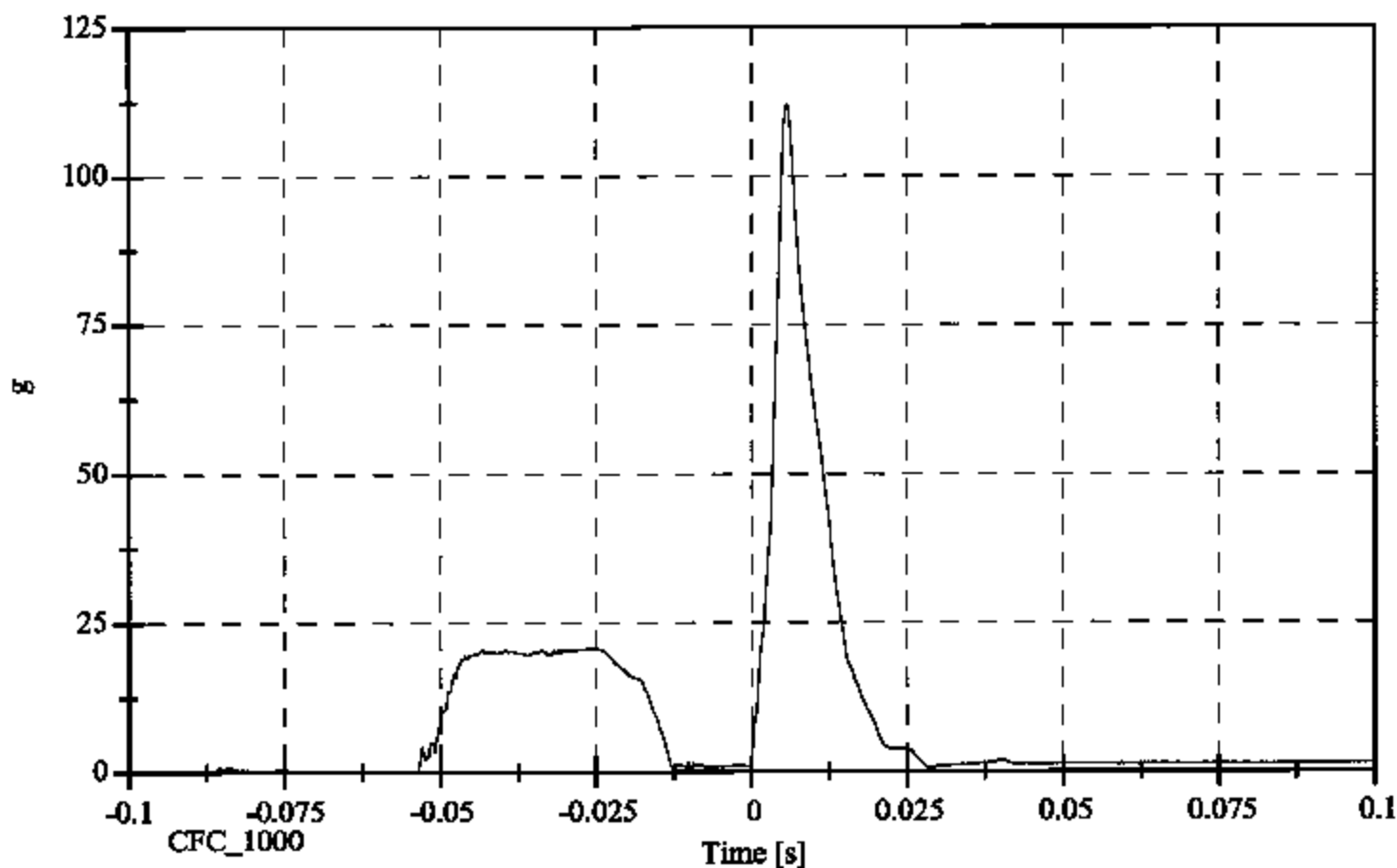
Maximum: 112.0 g

Average Acceleration: 8.6 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza
Headform Resultant

Max: 112.0 [g] at 0.006 [s]

Min: 0.0 [g] at -0.099 [s]

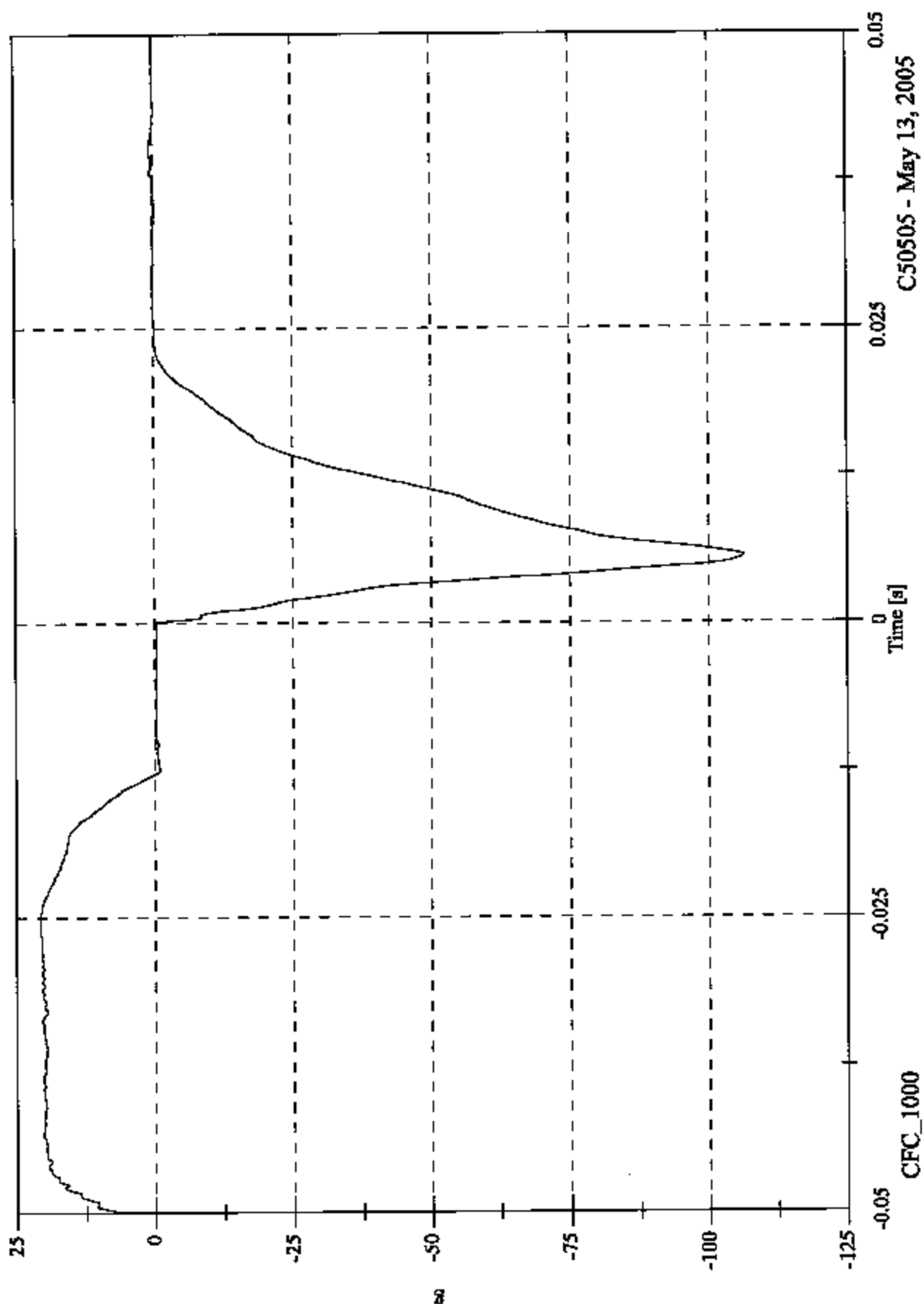


FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 20.7 [g] at -0.026 [s]

Min: -106.3 [g] at 0.006 [s]



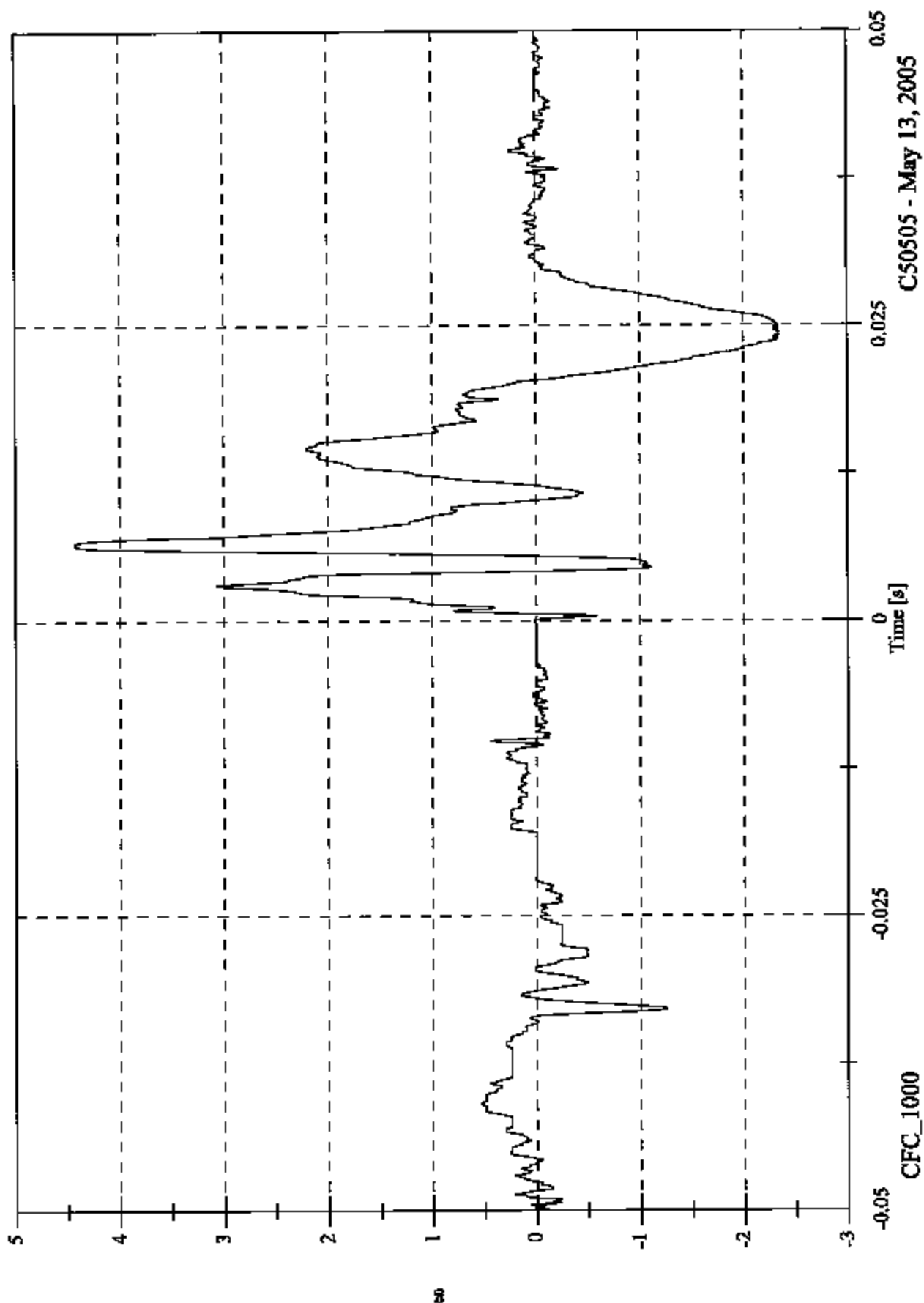
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 4.4 [g] at 0.007 [s]

Min: -2.3 [g] at 0.024 [s]



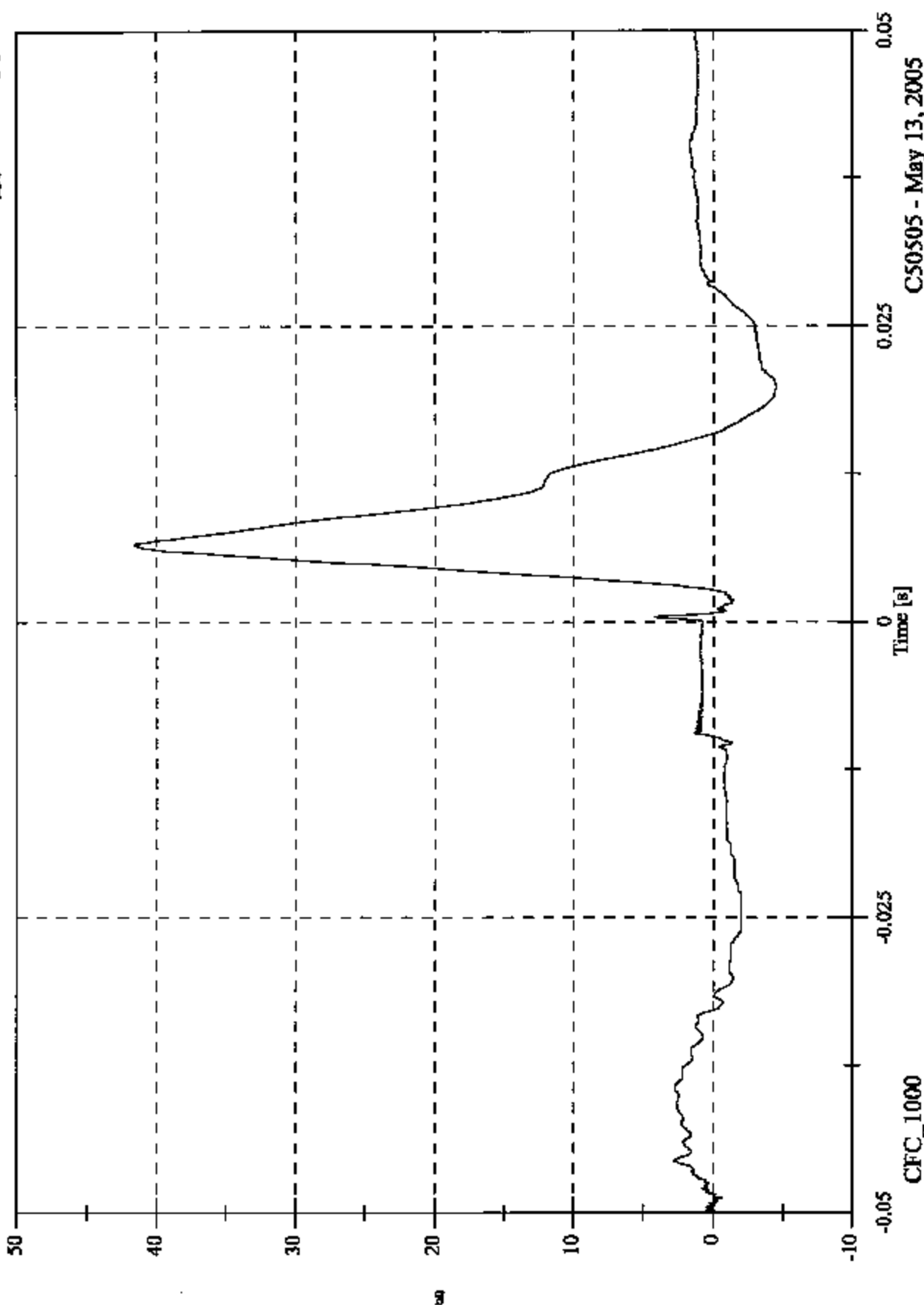
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 41.6 [g] at 0.007 [s]

Min: -4.6 [g] at 0.020 [s]



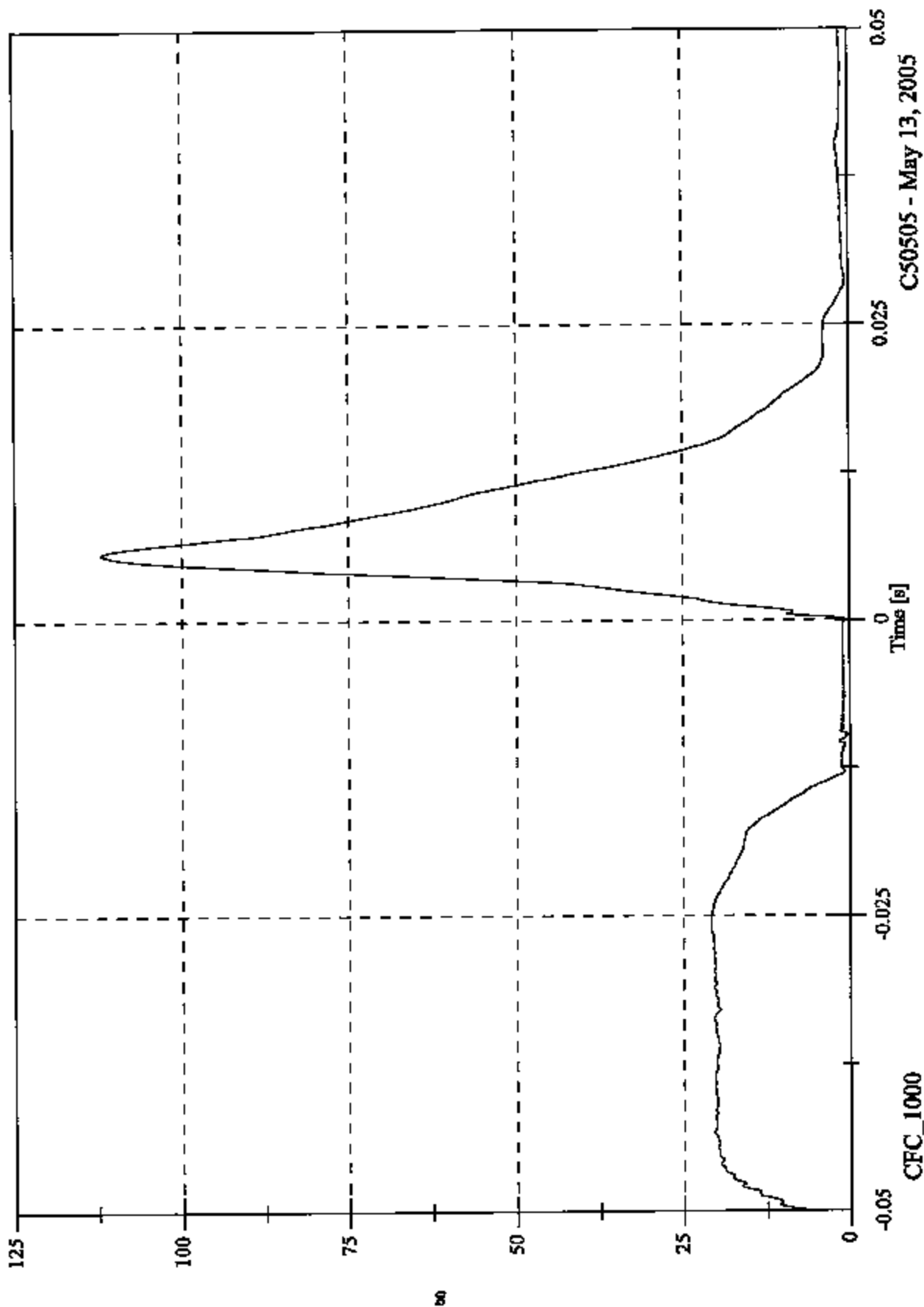
C50505 - May 13, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 112.0 [g] at 0.006 [s]

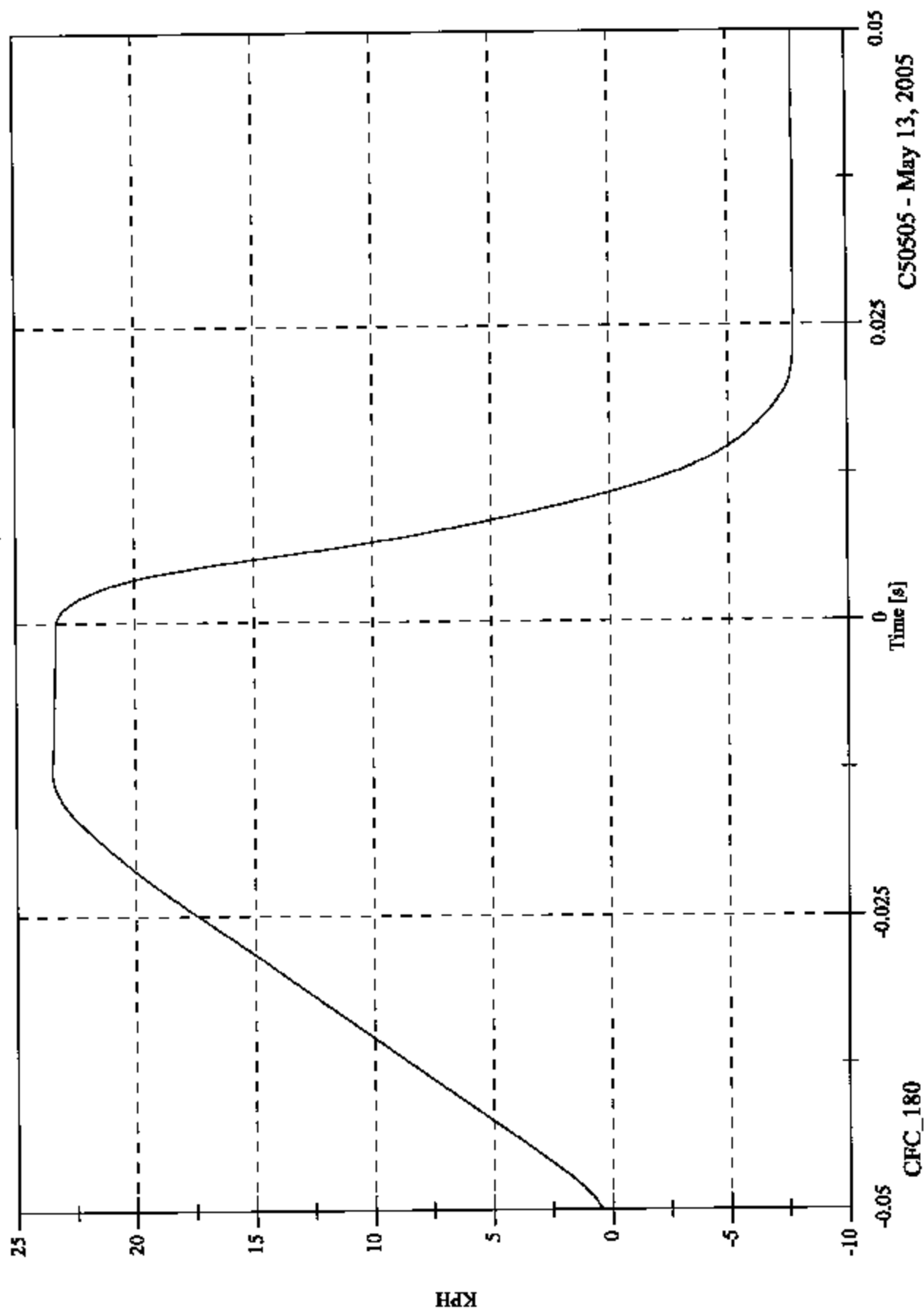
Min: 0.3 [g] at -0.010 [s]



Max: 23.5 [KPH] at -0.013 [s]
Min: -7.8 [KPH] at 0.037 [s]

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Velocity

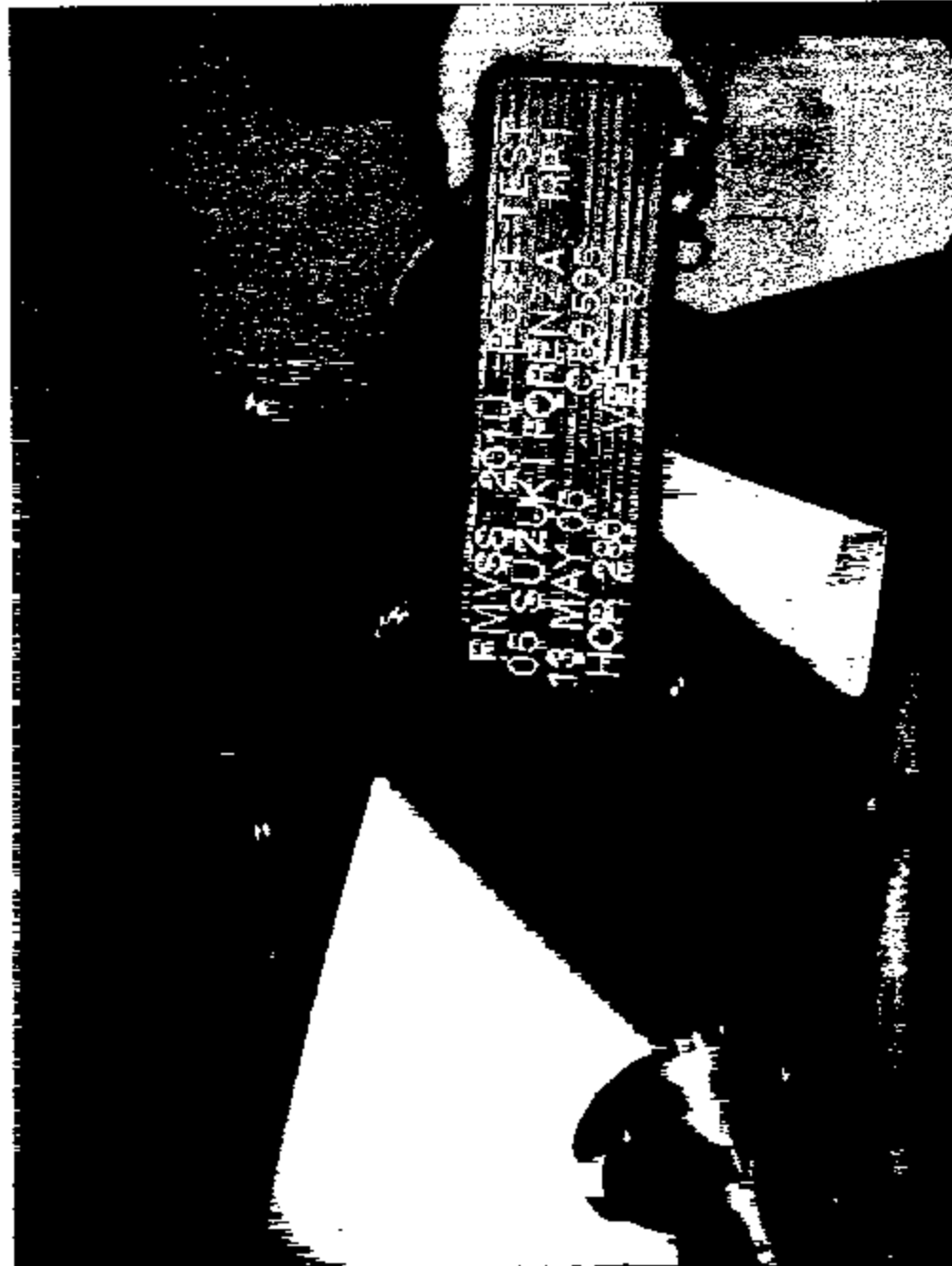


CFC_180

C50505 - May 13, 2005



PRE-IMPACT RPT



POST-IMPACT RP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	11
Test Date:	05/16/05
Target Location:	A-PILLAR
Target Code:	AP2
Horizontal Impact Angle:	217°
Vertical Impact Angle:	44°
Ambient Temperature:	22.0C°
Relative Humidity:	34.1
Time of Impact:	8:40
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	5	mm right	x	mm left
On Centerline	21	mm up		



POST-IMPACT AP2 HEADFORM

Free Motion HIC	436.7
HIC(d)	495.8
Impact Velocity (kph)	23.56
HIC T1 (msec)	0.8
HIC T2 (msec)	11.8

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - AP2

FMH Headform 805

Location: AP2

Test Date: May 16, 2005

Work File: AP2

TEST RESULTS

Lab Temperature: 22.0 C

HICd: 495.8

Lab Humidity: 34.1 %

HIC (36ms): 436.7

Velocity at Impact: 23.56 KPH

t1: 0.8 msec

t2: 11.8 msec

Free Flight Distance: 213.77 mm

Duration: 11.0 msec

Maximum: 132.0 g

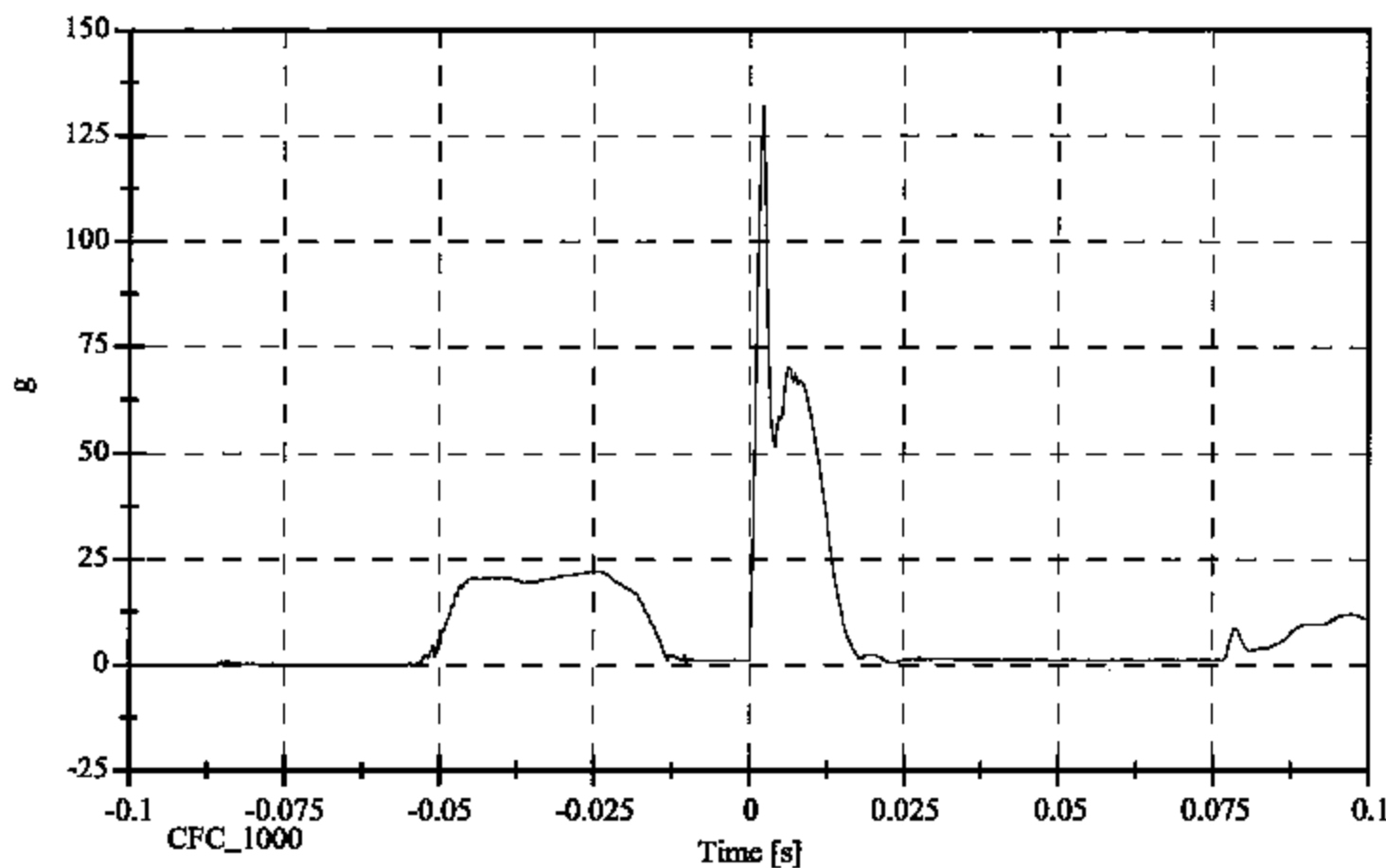
Average Acceleration: 9.1 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 132.0 [g] at 0.002 [s]

Headform Resultant

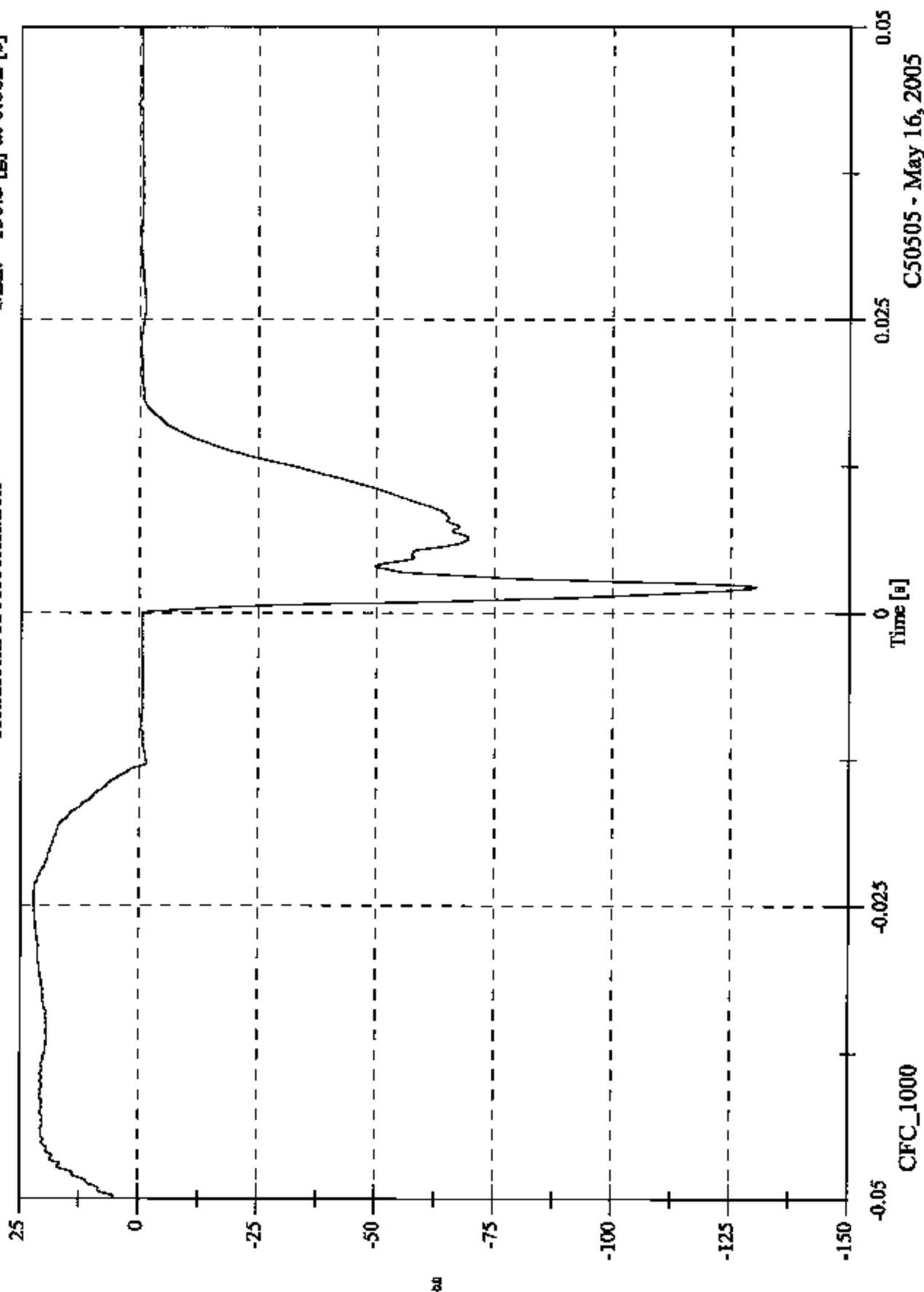
Min: -0.0 [g] at -0.100 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 22.2 [g] at -0.024 [s]
Min: -130.2 [g] at 0.002 [s]



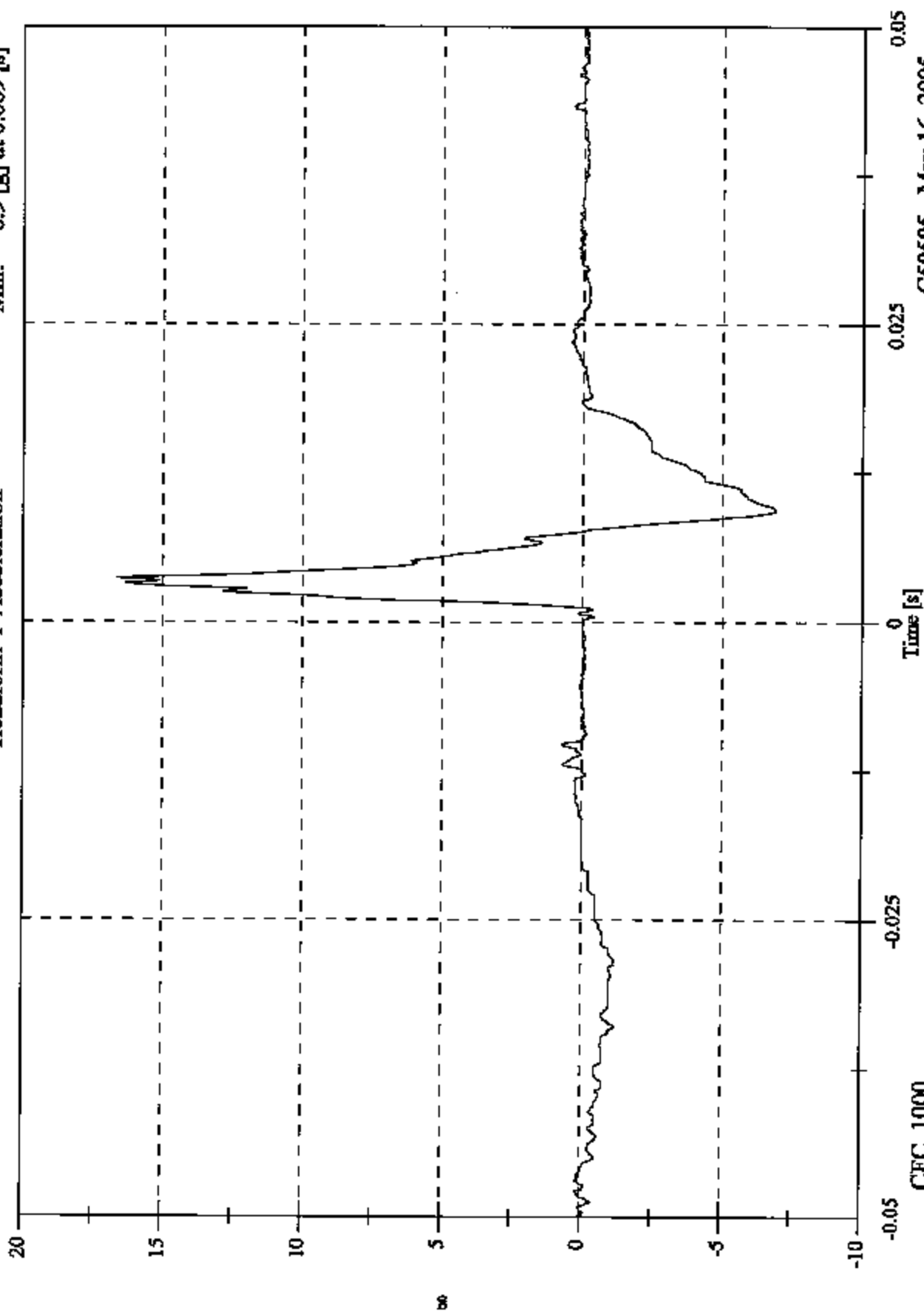
C50505 - May 16, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 16.7 [g] at 0.004 [s]

Min: -6.9 [g] at 0.009 [s]



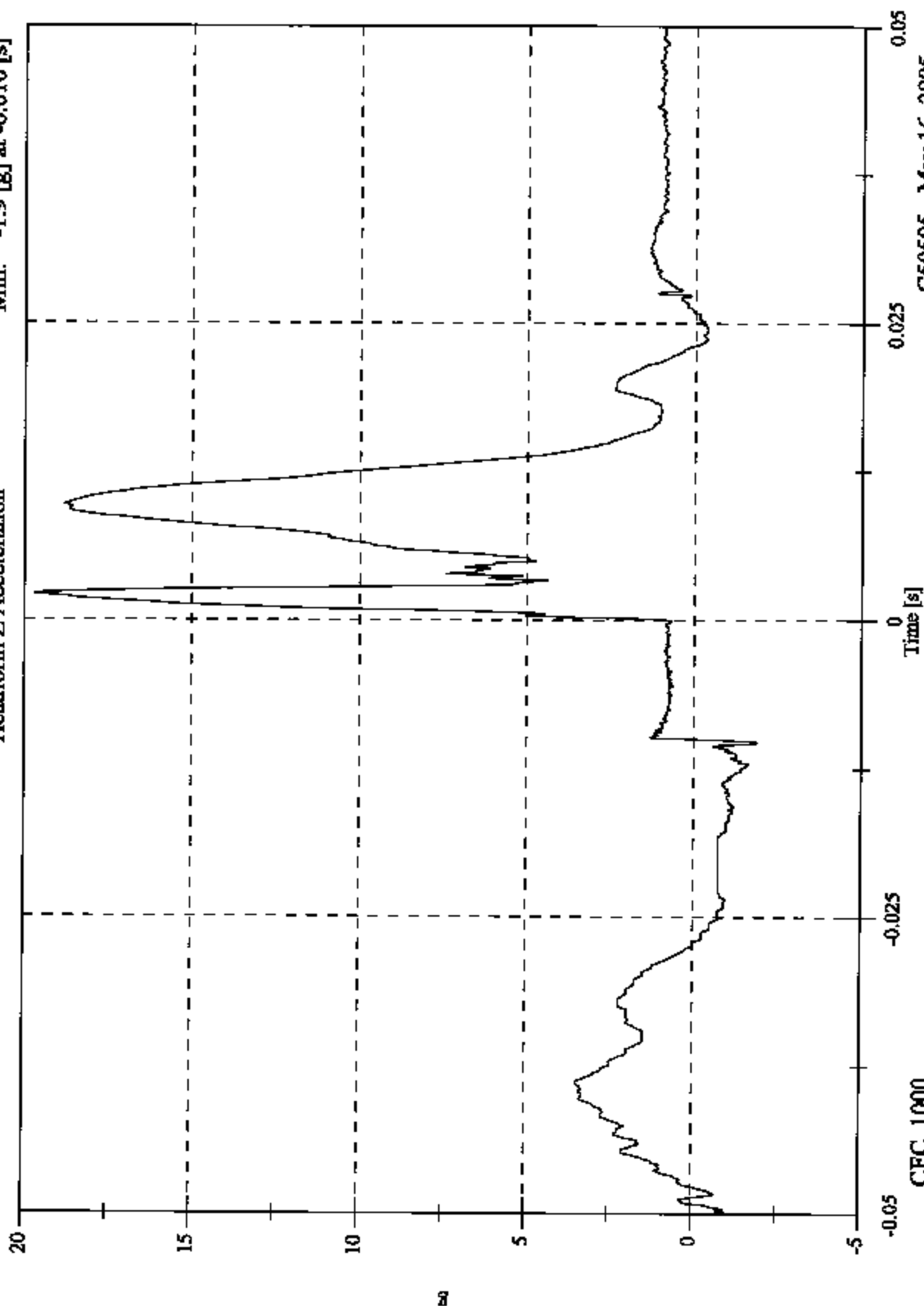
C50505 - May 16, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 19.7 [g] at 0.002 [s]

Min: -1.9 [g] at -0.010 [s]



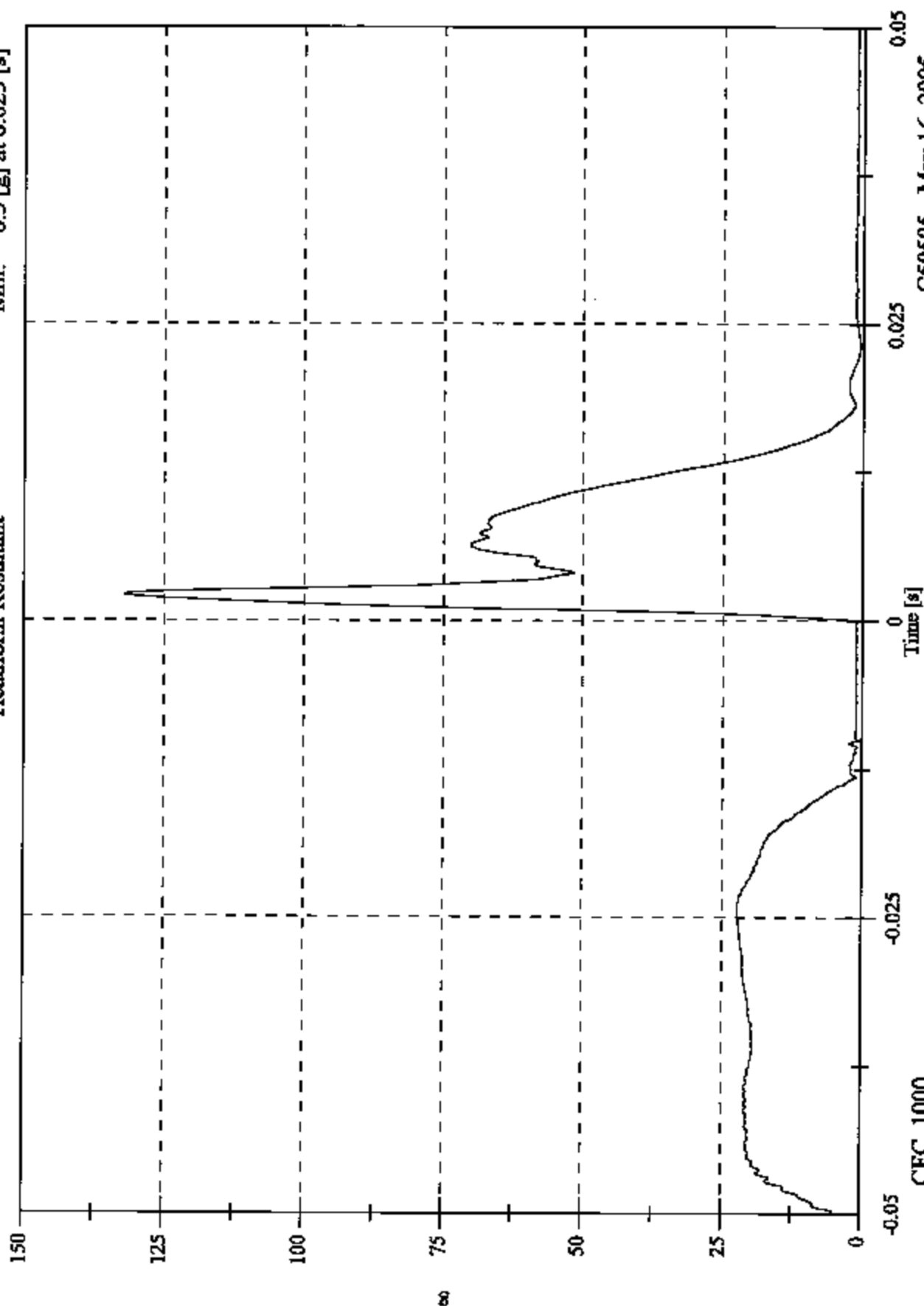
C50505 - May 16, 2005

FMVSS 201U IMPACT TEST ~ 2005 Suzuki Forenza

Headform Resultant

Max: 132.0 [g] at 0.002 [s]

Min: 0.5 [g] at 0.023 [s]

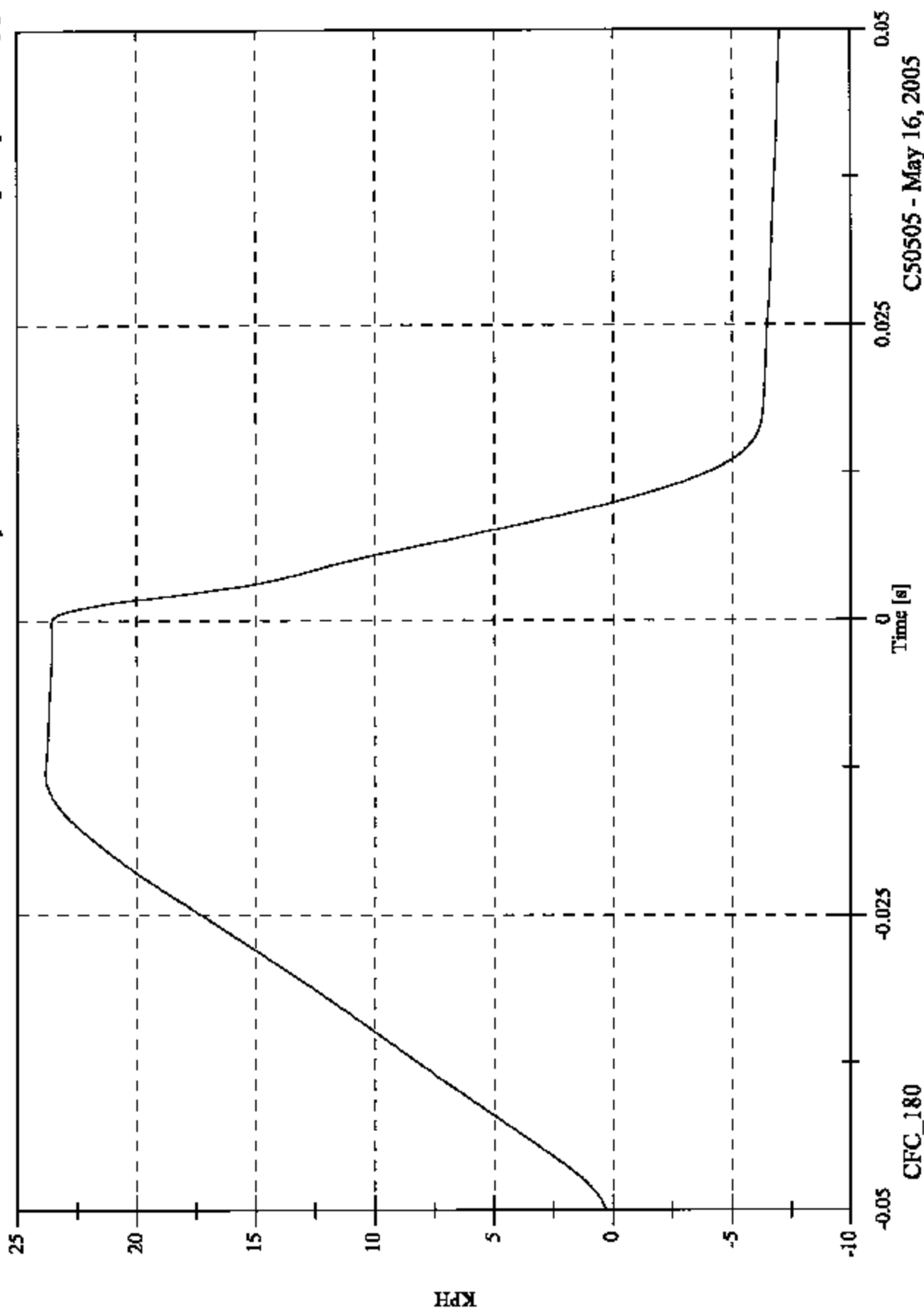


C50505 - May 16, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.8 [KPH] at -0.013 [s]
 Min: -7.0 [KPH] at 0.050 [s]

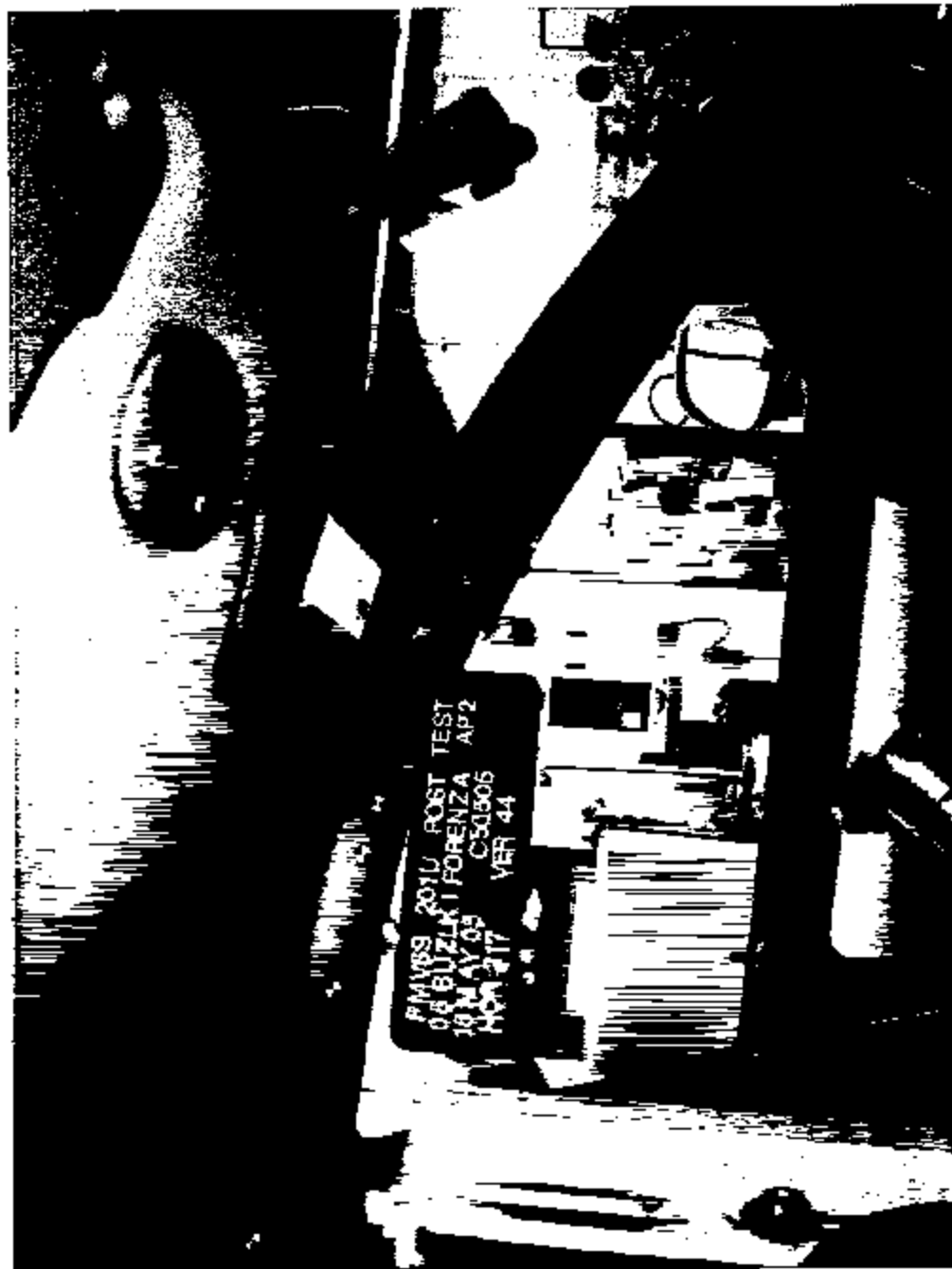
Headform Velocity



CFC_180



PRE-IMPACT AP2



POST-IMPACT AP2

8754-FMH-06

VEHICLE YEAR/MAKE/MODEL/STYLE:	2005 Suzuki Forenza 4-door Sedan
VIN:	KL5JD56Z15K080227
DATE OF MANUFACTURE:	08/04(SEE CERTIFICATION LABEL)
COLOR:	Silver

Test Number:	12
Test Date:	05/16/05
Target Location:	SIDE RAIL
Target Code:	SR1
Horizontal Impact Angle:	270°
Vertical Impact Angle:	19°
Ambient Temperature:	23.1C°
Relative Humidity:	33.5
Time of Impact:	9:20
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	12	mm right	x	mm left
On Centerline	14	mm up		



POST-IMPACT SR1 HEADFORM

Free Motion HIC	511.2
HIC(d)	552.1
Impact Velocity (kph)	23.45
HIC T1 (msec)	43
HIC T2 (msec)	11.4

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza C50505 - SR1

FMH Headform 1255

Location: SR1

Test Date: May 16, 2005

Work File: SR1

TEST RESULTS

Lab Temperature: 23.1 C

HICd: 552.1

Lab Humidity: 33.5 %

HIC (36ms): 511.2

Velocity at Impact: 23.45 KPH

t1: 4.3 msec

t2: 11.4 msec

Free Flight Distance: 212.39 mm

Duration: 7.1 msec

Maximum: 115.1 g

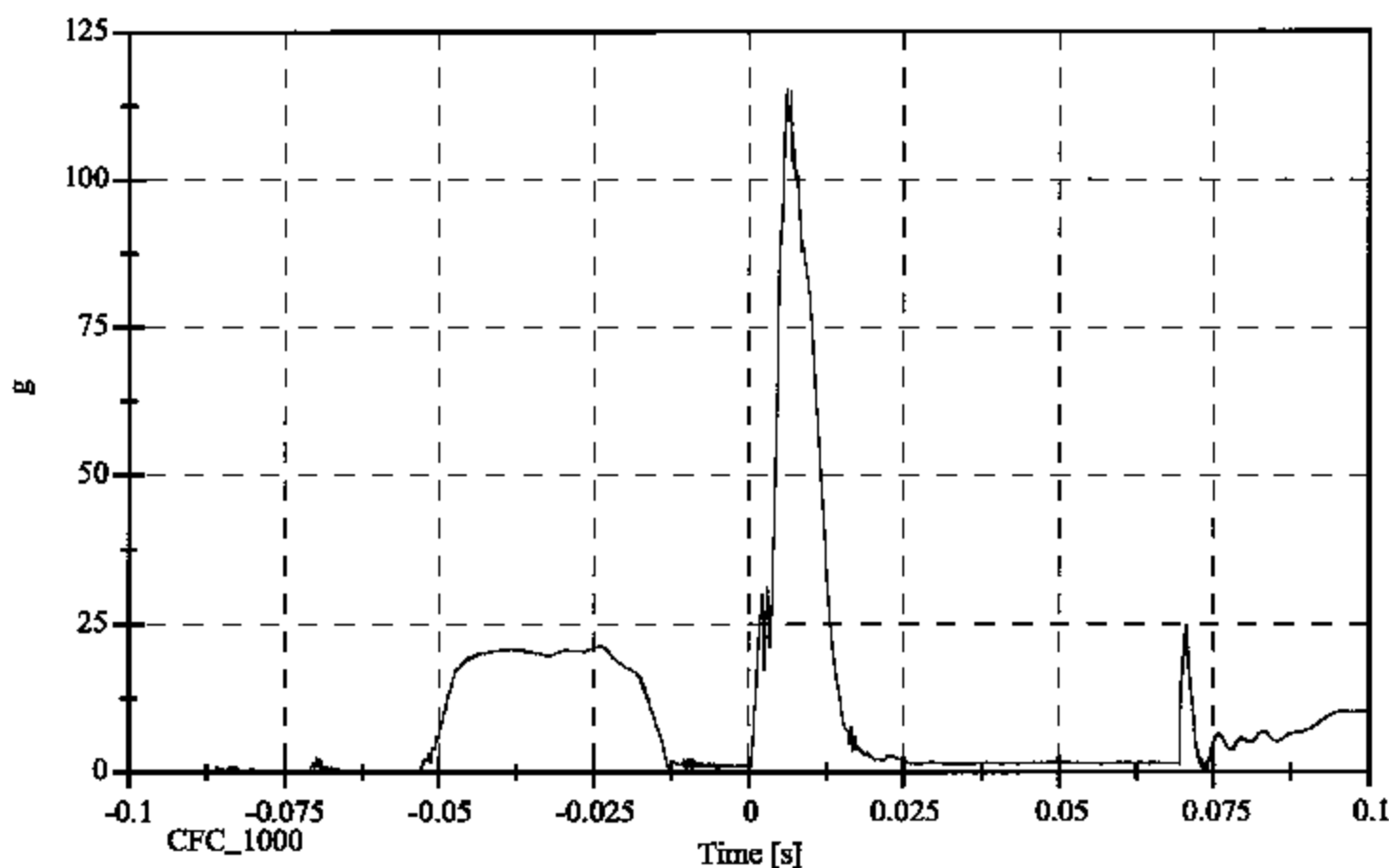
Average Acceleration: 9.2 g

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 115.1 [g] at 0.006 [s]

Headform Resultant

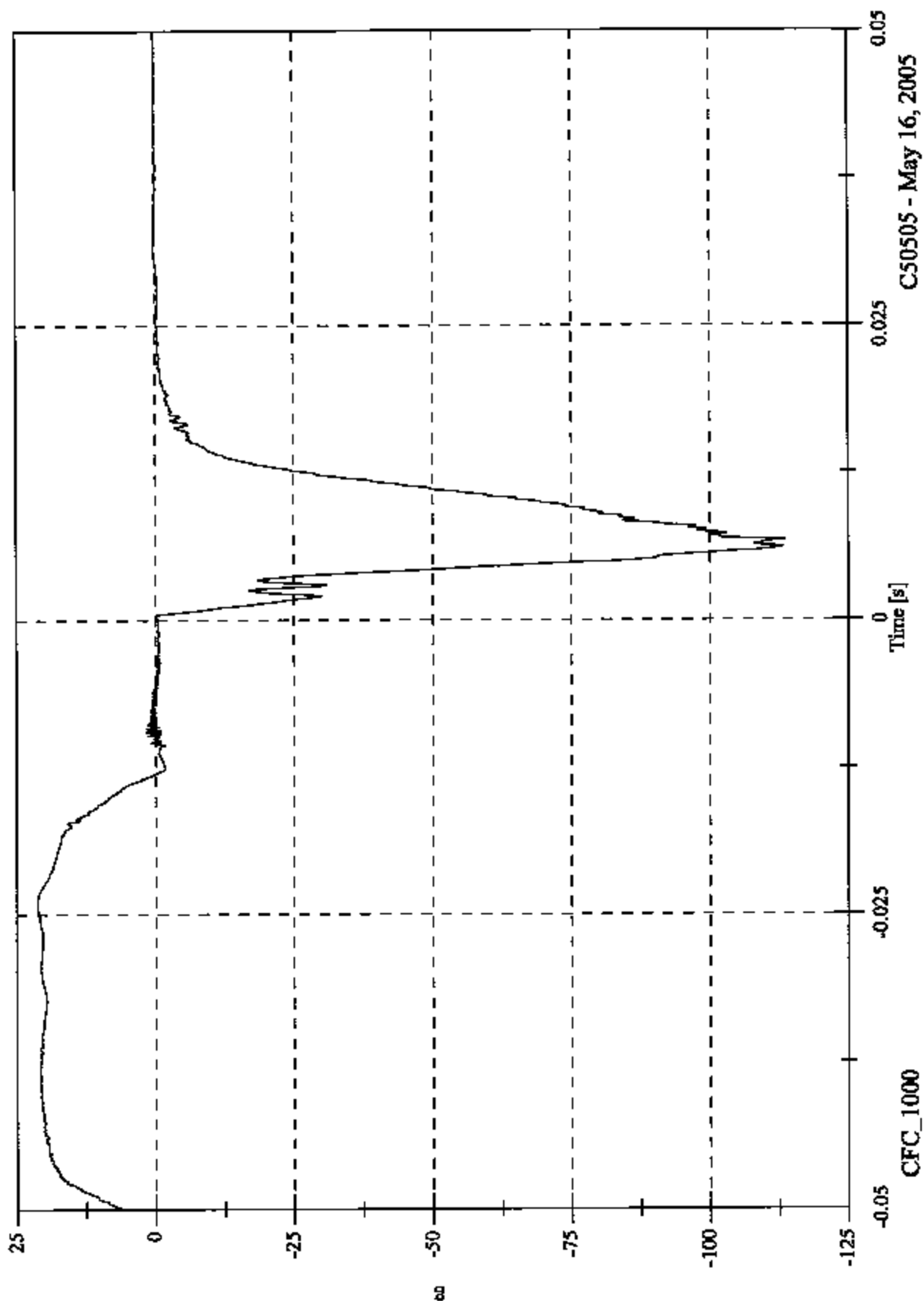
Min: 0.0 [g] at -0.099 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform X Acceleration

Max: 21.4 [g] at -0.024 [s]
Min: -113.6 [g] at 0.007 [s]



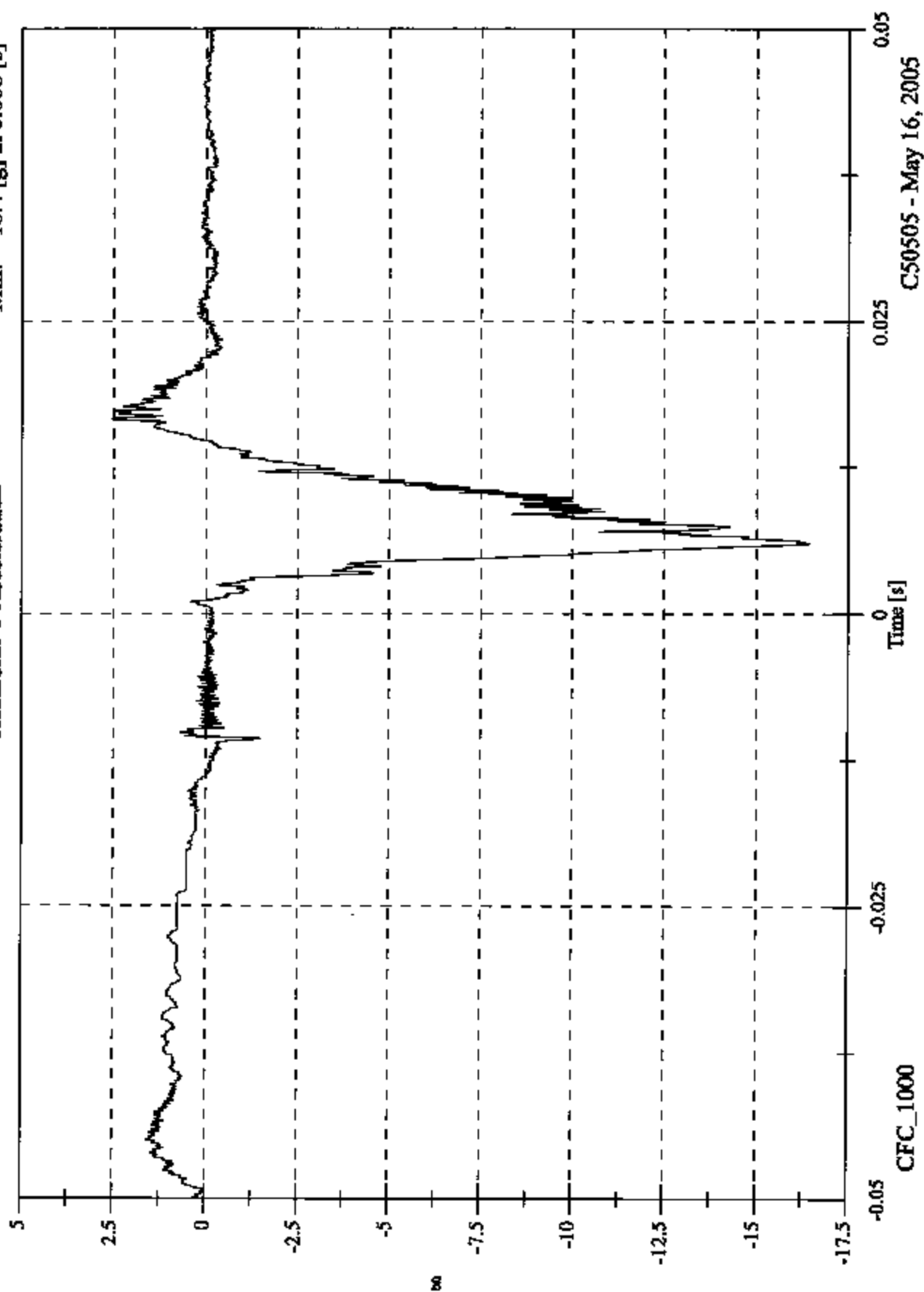
C50505 - May 16, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Y Acceleration

Max: 2.5 [g] at 0.017 [s]

Min: -16.4 [g] at 0.006 [s]



CFC_1000

Time [s]

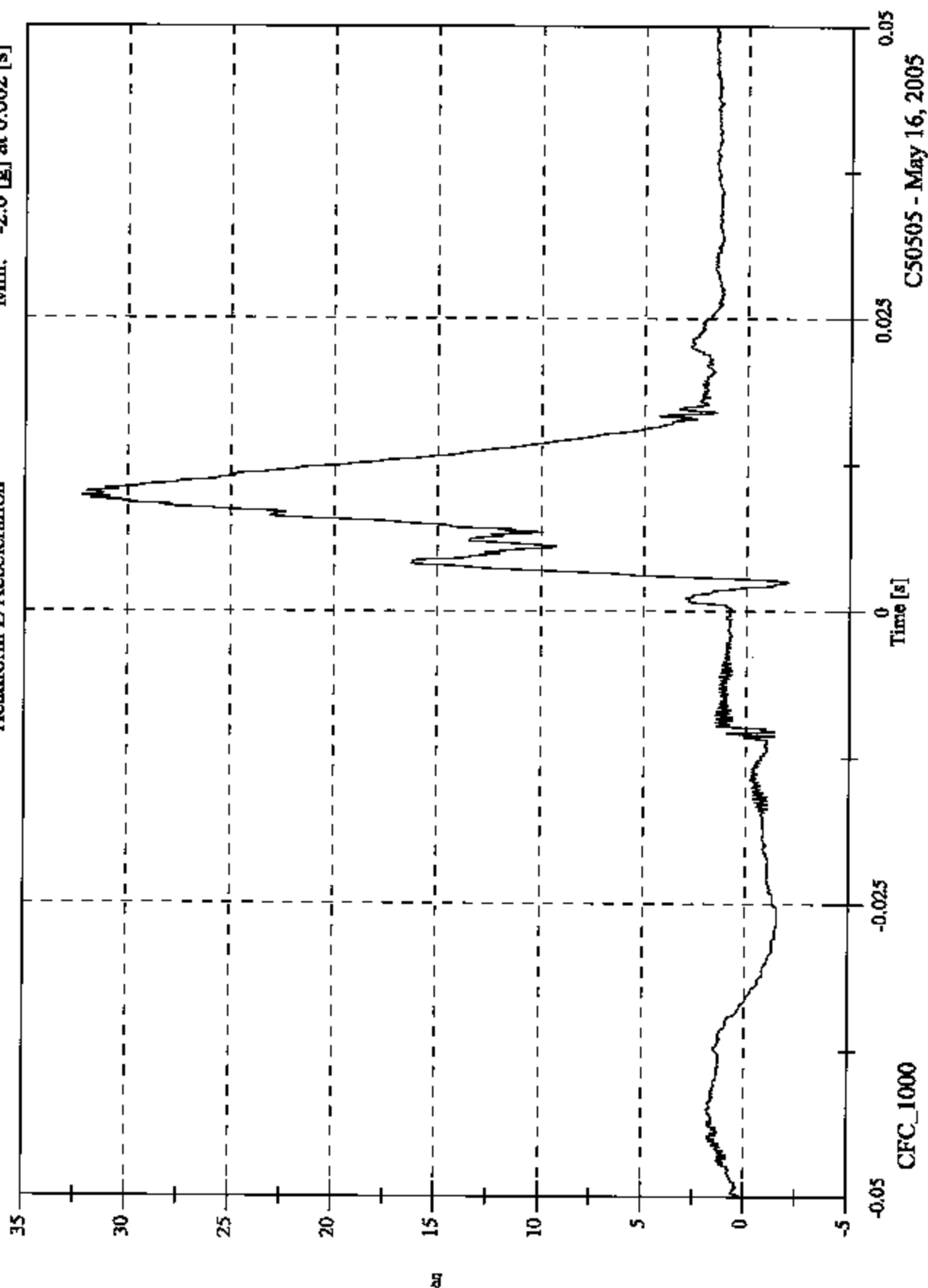
C50505 - May 16, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Z Acceleration

Max: 32.2 [g] at 0.010 [s]

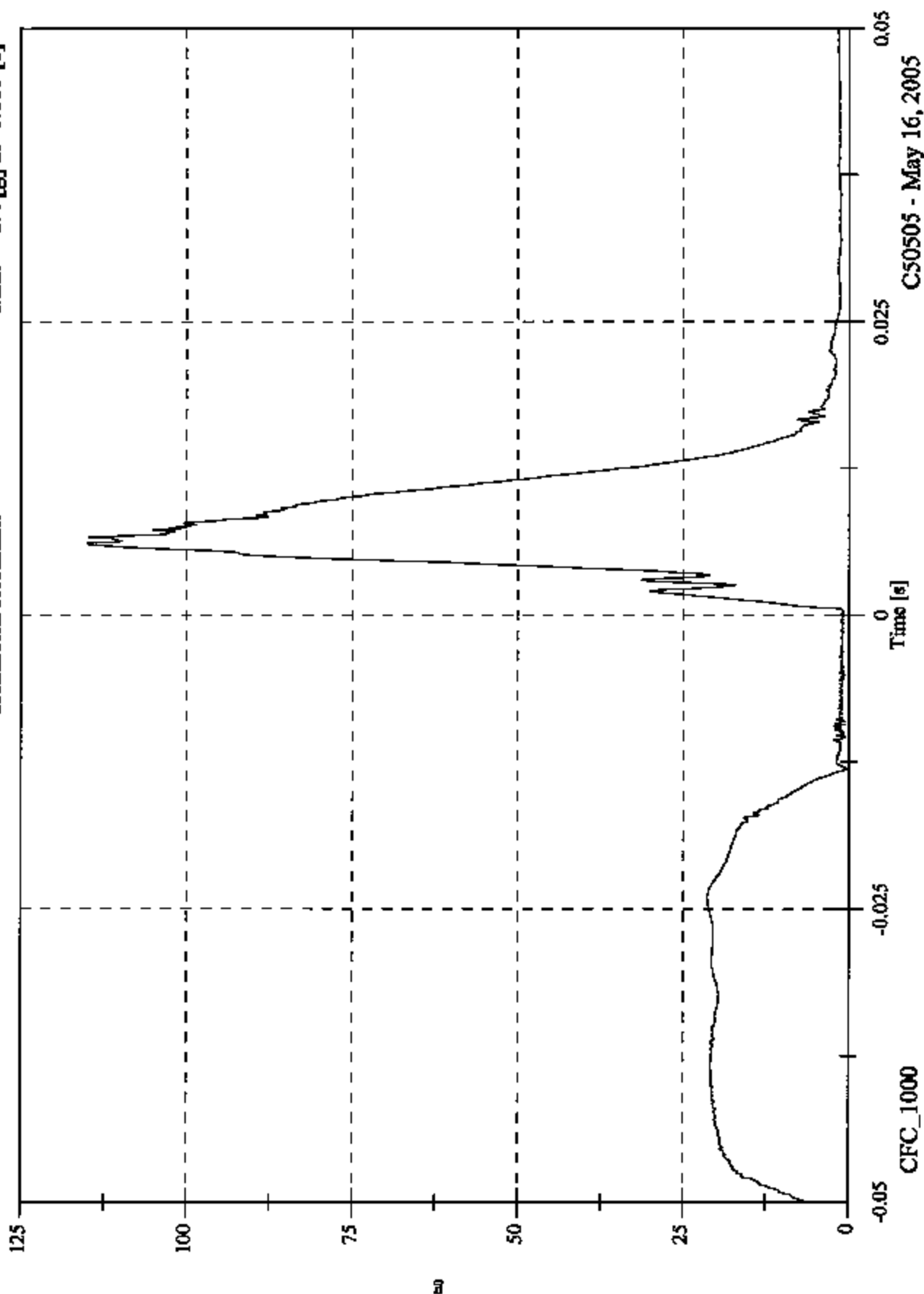
Min: -2.0 [g] at 0.002 [s]



FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Headform Resultant

Max: 115.1 [g] at 0.006 [s]
Min: 0.4 [g] at -0.013 [s]

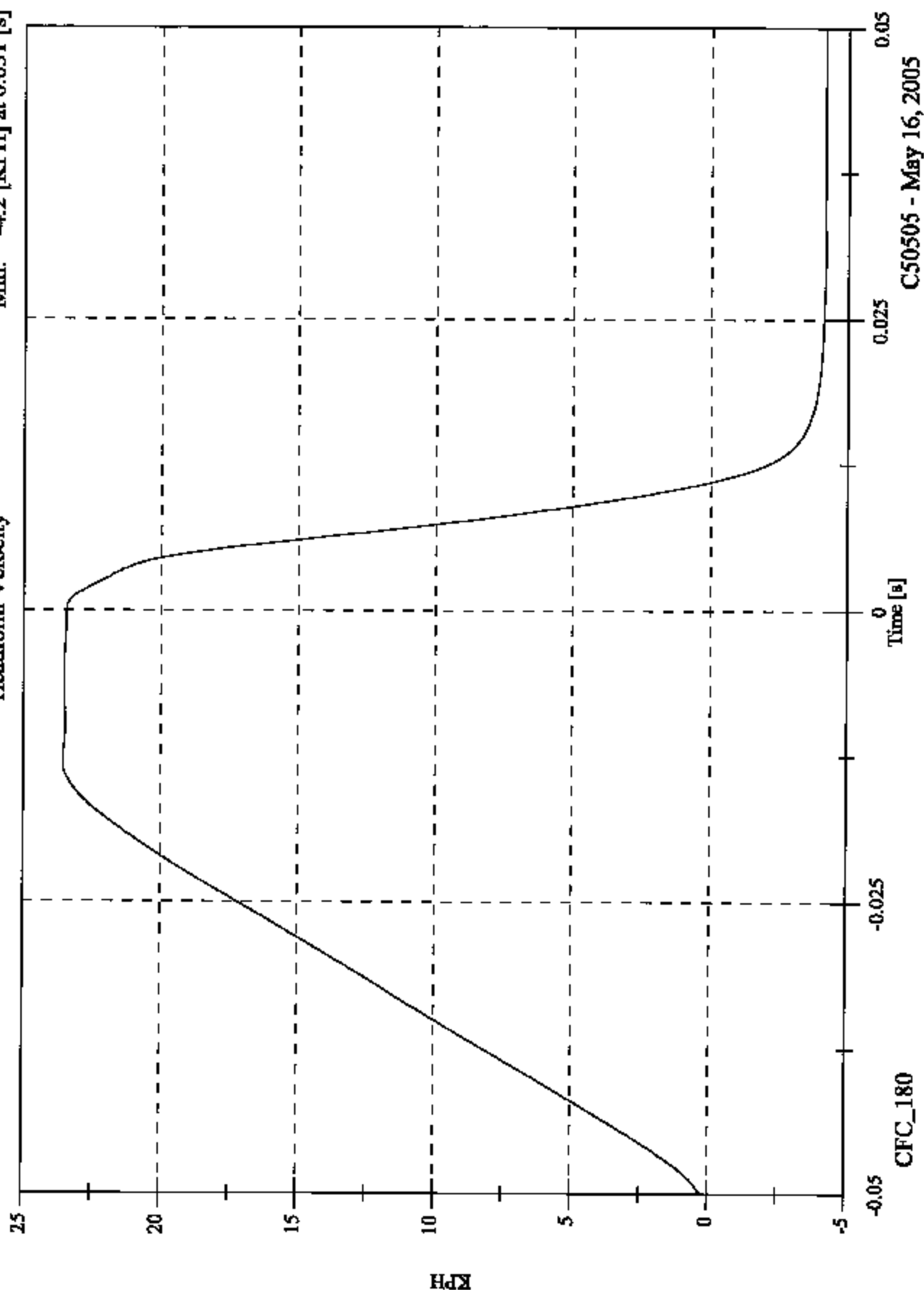


C50505 - May 16, 2005

FMVSS 201U IMPACT TEST - 2005 Suzuki Forenza

Max: 23.6 [KPH] at -0.013 [s]
 Min: -4.2 [KPH] at 0.031 [s]

Headform Velocity





PRE-IMPACT SRI



POST-IMPACT SR1

APPENDIX A

PHOTOGRAPHS

PHOTOGRAPHS

FIGURE	VIEW
A-1	LEFT SIDE VIEW OF VEHICLE
A-2	RIGHT SIDE VIEW OF VEHICLE
A-3	3/4 FRONTAL VIEW FROM LEFT SIDE OF VEHICLE
A-4	3/4 REAR VIEW FROM RIGHT SIDE OF VEHICLE
A-5	VEHICLE'S CERTIFICATION LABEL
A-6	VEHICLE'S TIRE INFORMATION LABEL
A-7	PRE-TEST DRIVER SIDE A-PILLAR
A-8	PRE-TEST DRIVER SIDE FRONT HEADER
A-9	PRE-TEST DRIVER SIDE SIDE RAIL
A-10	PRE-TEST DRIVER SIDE B-PILLAR
A-11	PRE-TEST DRIVER SIDE REAR PILLAR
A-12	PRE-TEST PASSENGER SIDE A-PILLAR
A-13	PRE-TEST PASSENGER SIDE FRONT HEADER
A-14	PRE-TEST PASSENGER SIDE SIDE RAIL
A-15	PRE-TEST PASSENGER SIDE B-PILLAR
A-16	PRE-TEST PASSENGER SIDE REAR PILLAR
A-17	POST-TEST DRIVER SIDE A-PILLAR
A-18	POST-TEST DRIVER FRONT HEADER
A-19	POST-TEST DRIVER SIDE SIDE RAIL
A-20	POST-TEST DRIVER SIDE B-PILLAR
A-21	POST-TEST DRIVER SIDE REAR PILLAR
A-22	POST-TEST PASSENGER SIDE A-PILLAR
A-23	POST-TEST PASSENGER FRONT HEADER
A-24	POST-TEST PASSENGER SIDE SIDE RAIL
A-25	POST-TEST PASSENGER SIDE B-PILLAR
A-26	POST-TEST PASSENGER SIDE REAR PILLAR

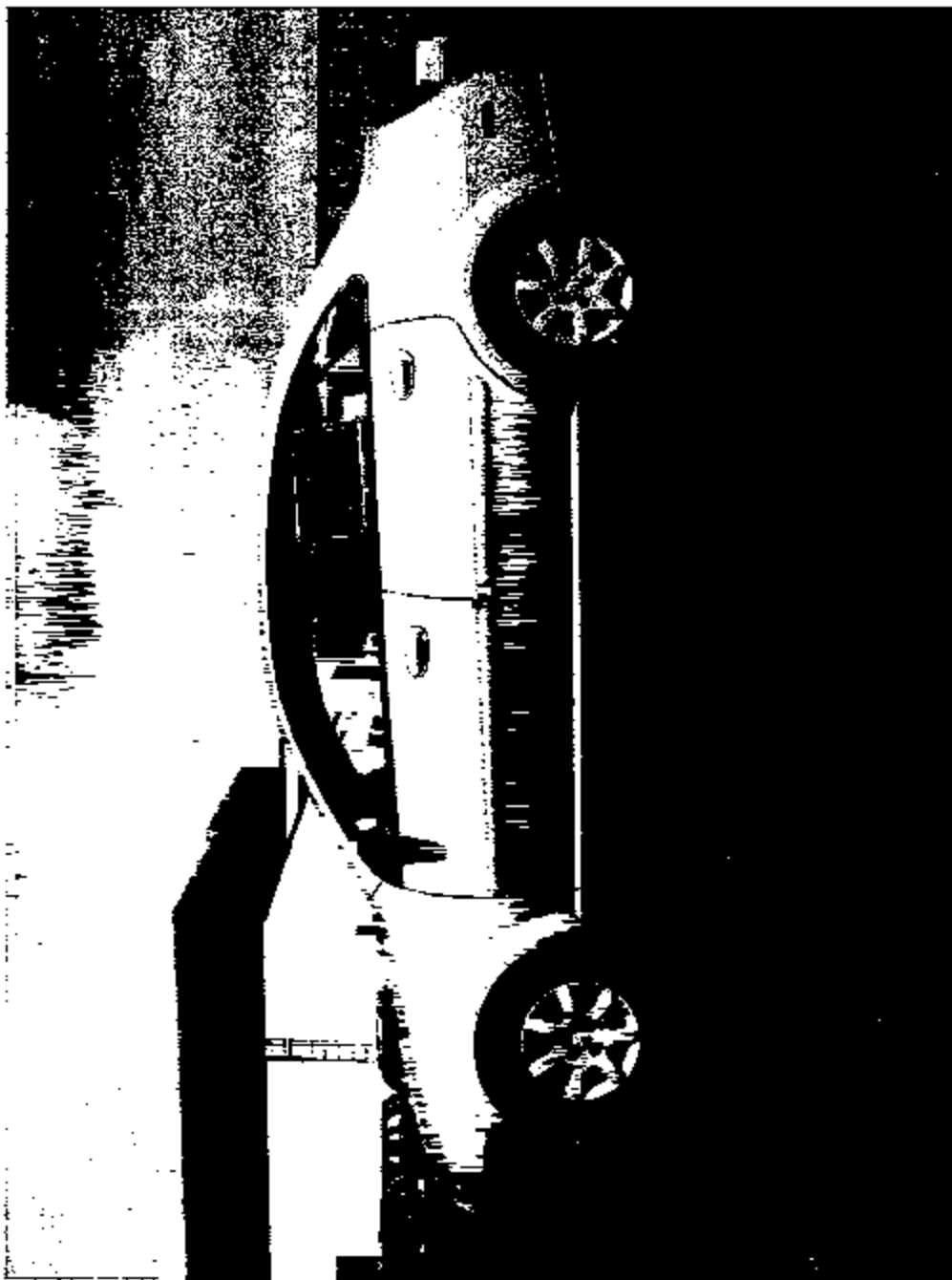


Figure A-1 : LEFT SIDE VIEW OF VEHICLE

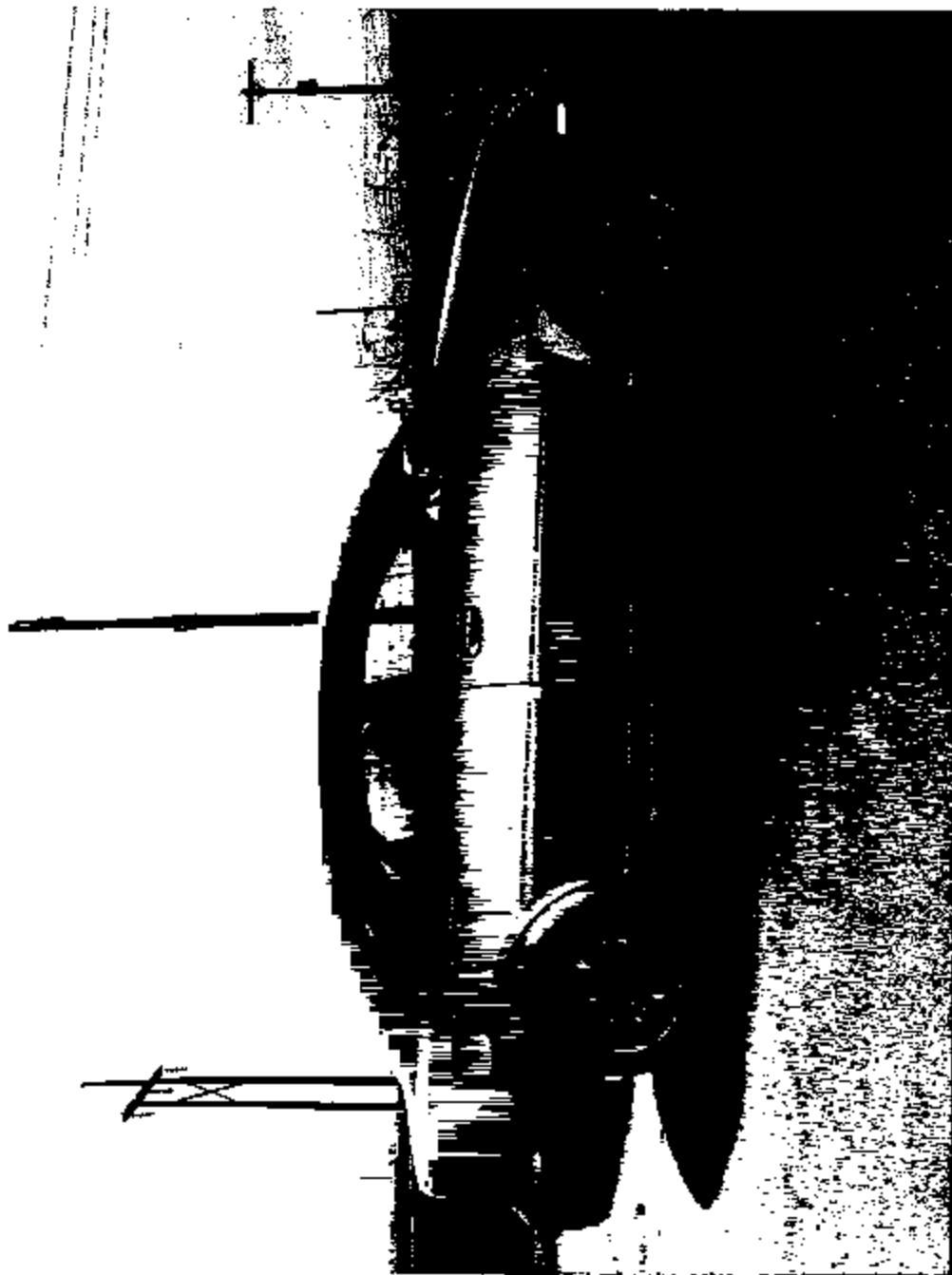


Figure A-2 : RIGHT SIDE VIEW OF VEHICLE



Figure A-3 : 3/4 FRONTAL VIEW FROM LEFT SIDE OF VEHICLE



Figure A-4 : 3/4 REAR VIEW FROM RIGHT SIDE OF VEHICLE

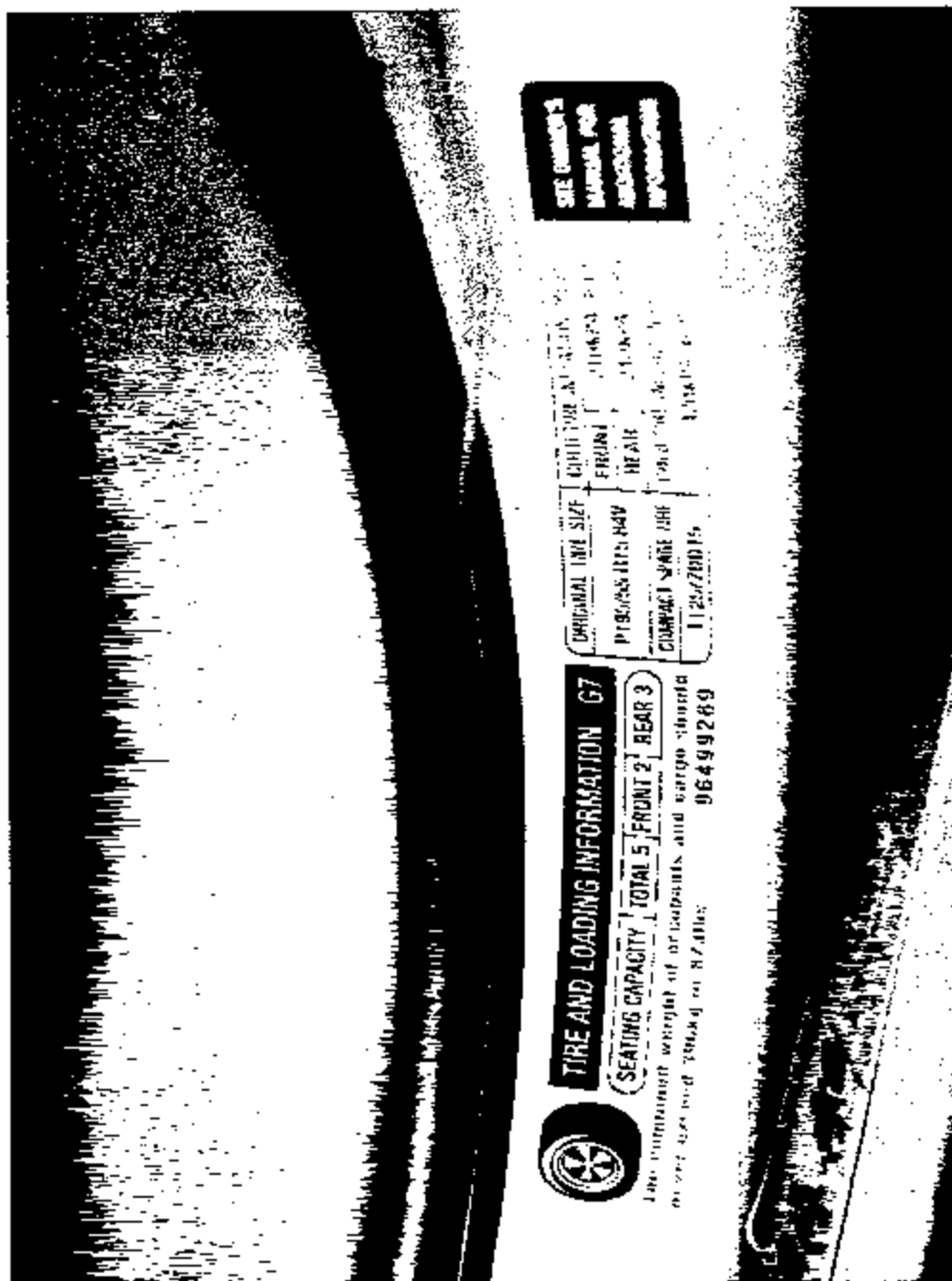


Figure A-6 : VEHICLE'S TIRE INFORMATION LABEL

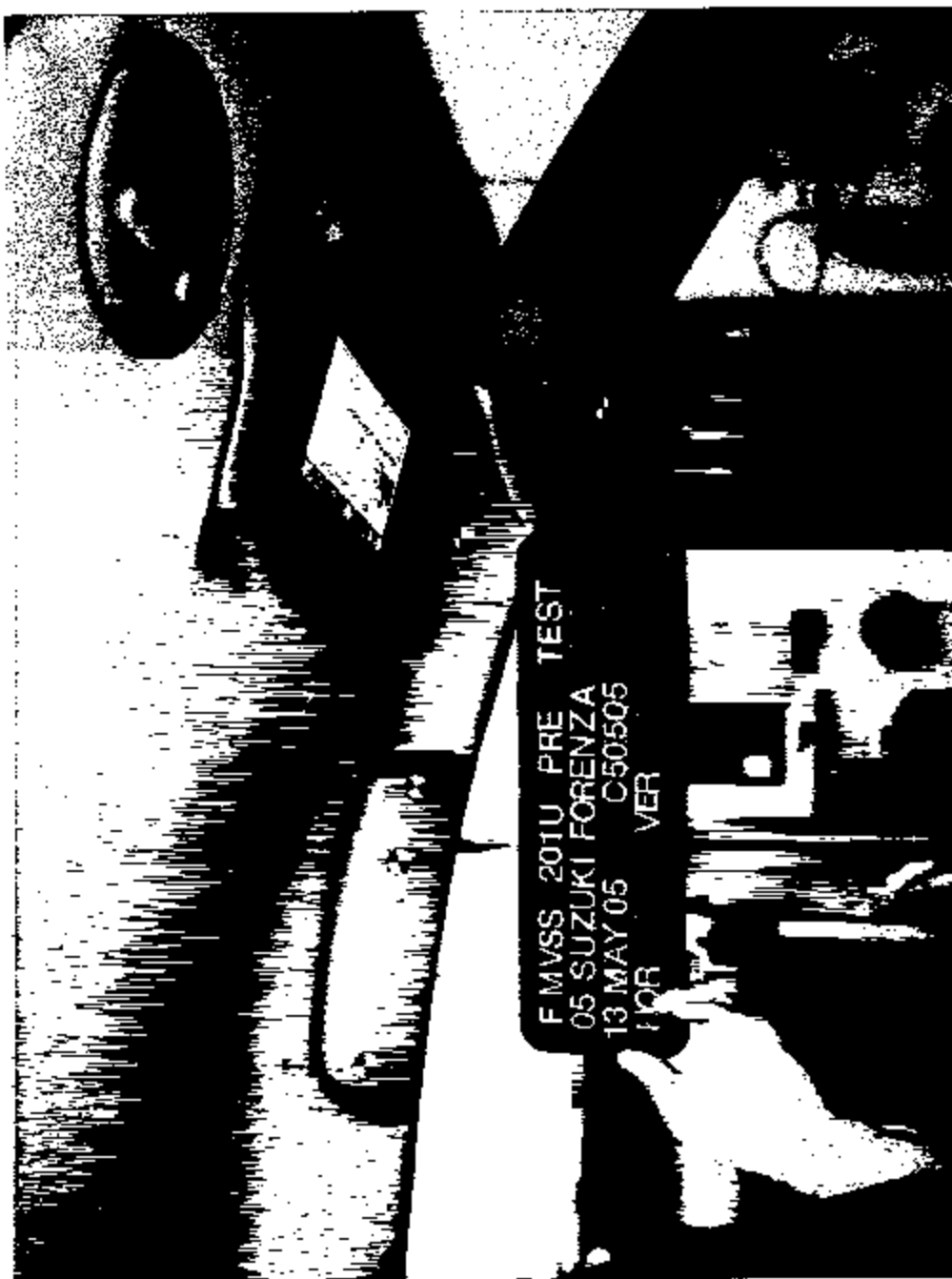


Figure A-7 : PRE-TEST DRIVER SIDE A-PILLAR

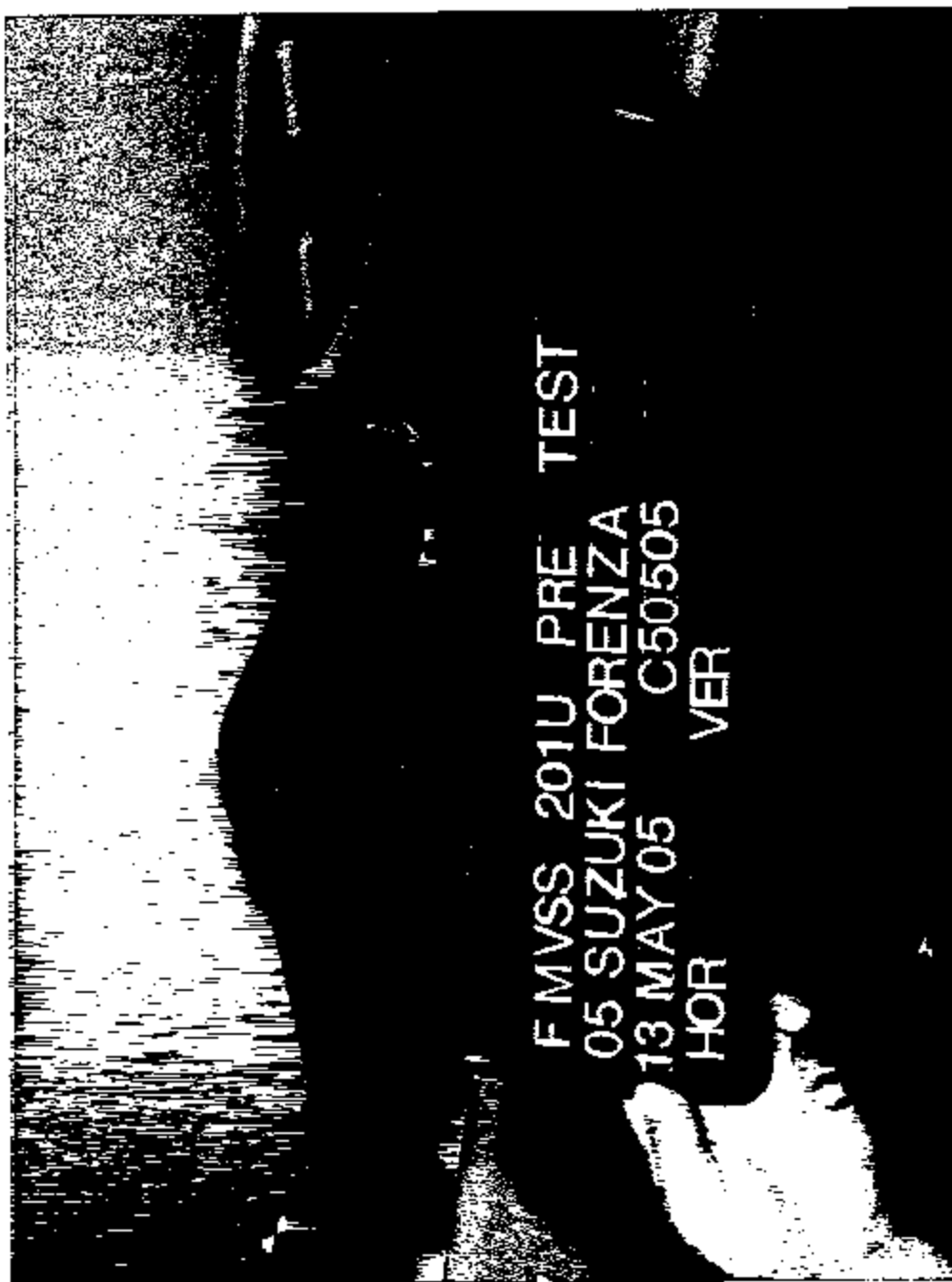


Figure A-8 : PRE-TEST DRIVER SIDE FRONT HEADER



Figure A-9 : PRE-TEST DRIVER SIDE SIDE RAIL



Figure A-10 : PRE-TEST DRIVER SIDE B-PILLAR

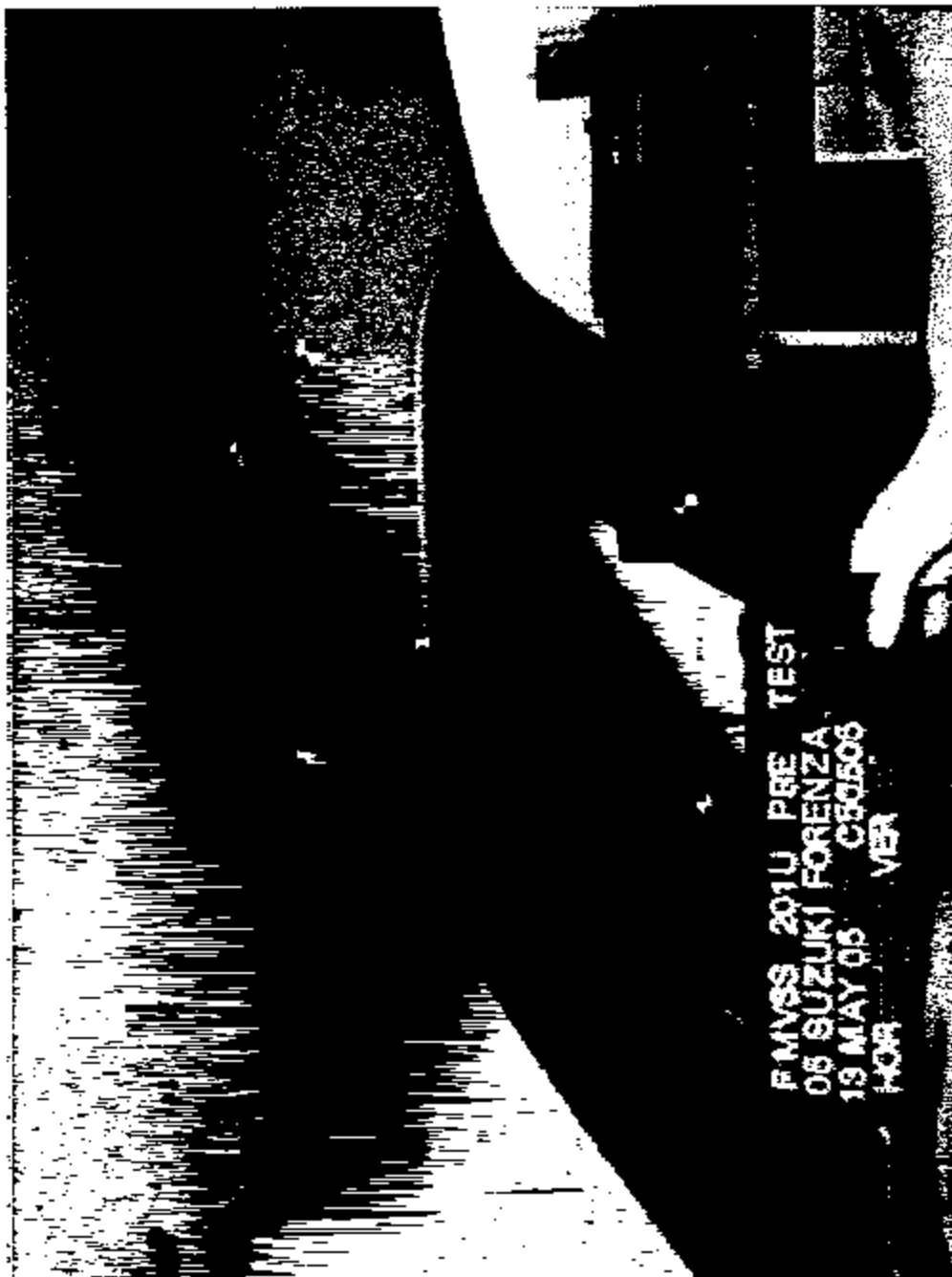


Figure A-11 : PRE-TEST DRIVER SIDE REAR PILLAR



Figure A-12 : PRE-TEST PASSENGER SIDE A-PILLAR

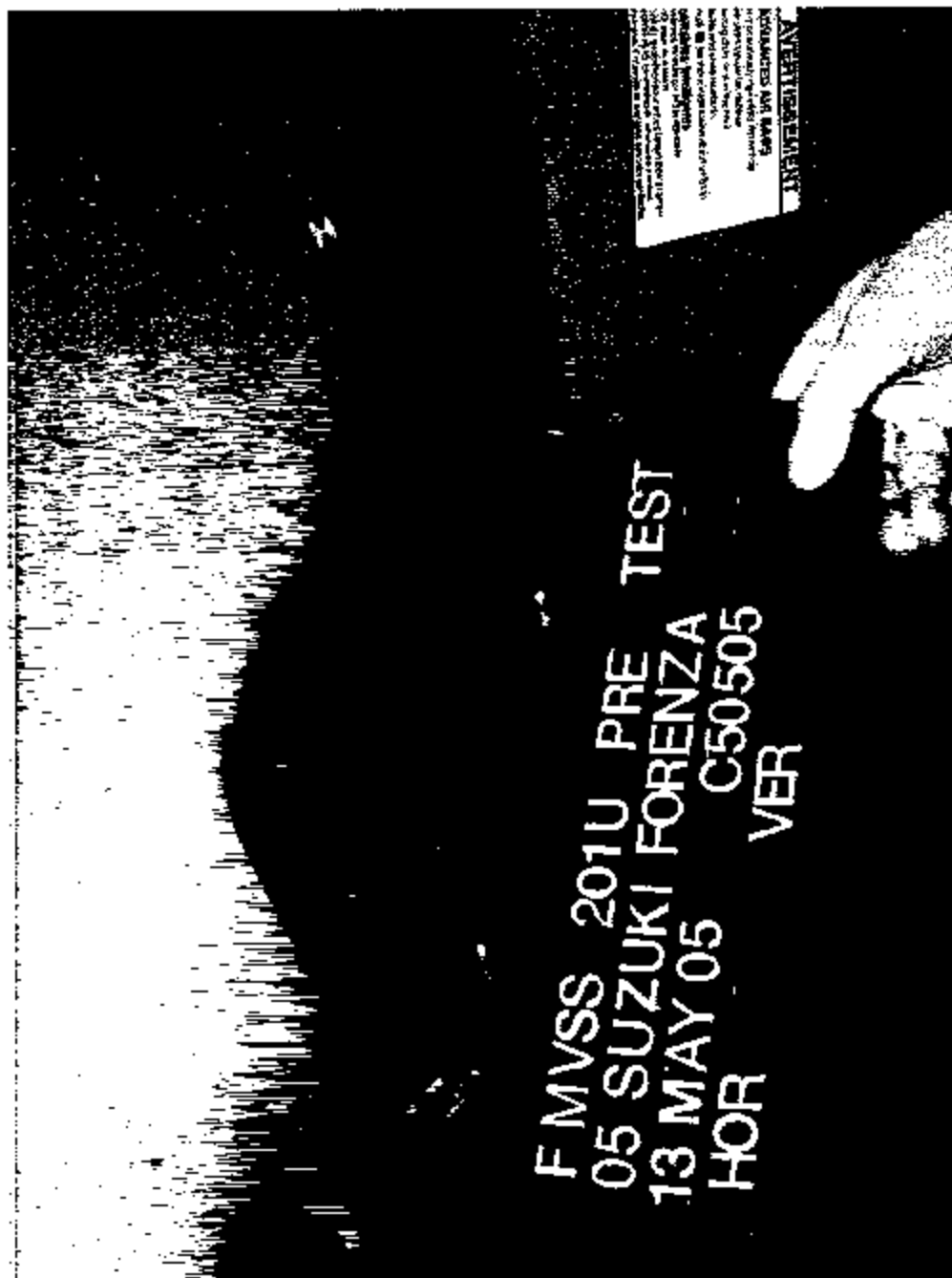


Figure A-13 : PRE-TEST PASSENGER SIDE FRONT HEADER



Figure A-14 : PRE-TEST PASSENGER SIDE SIDE RAIL

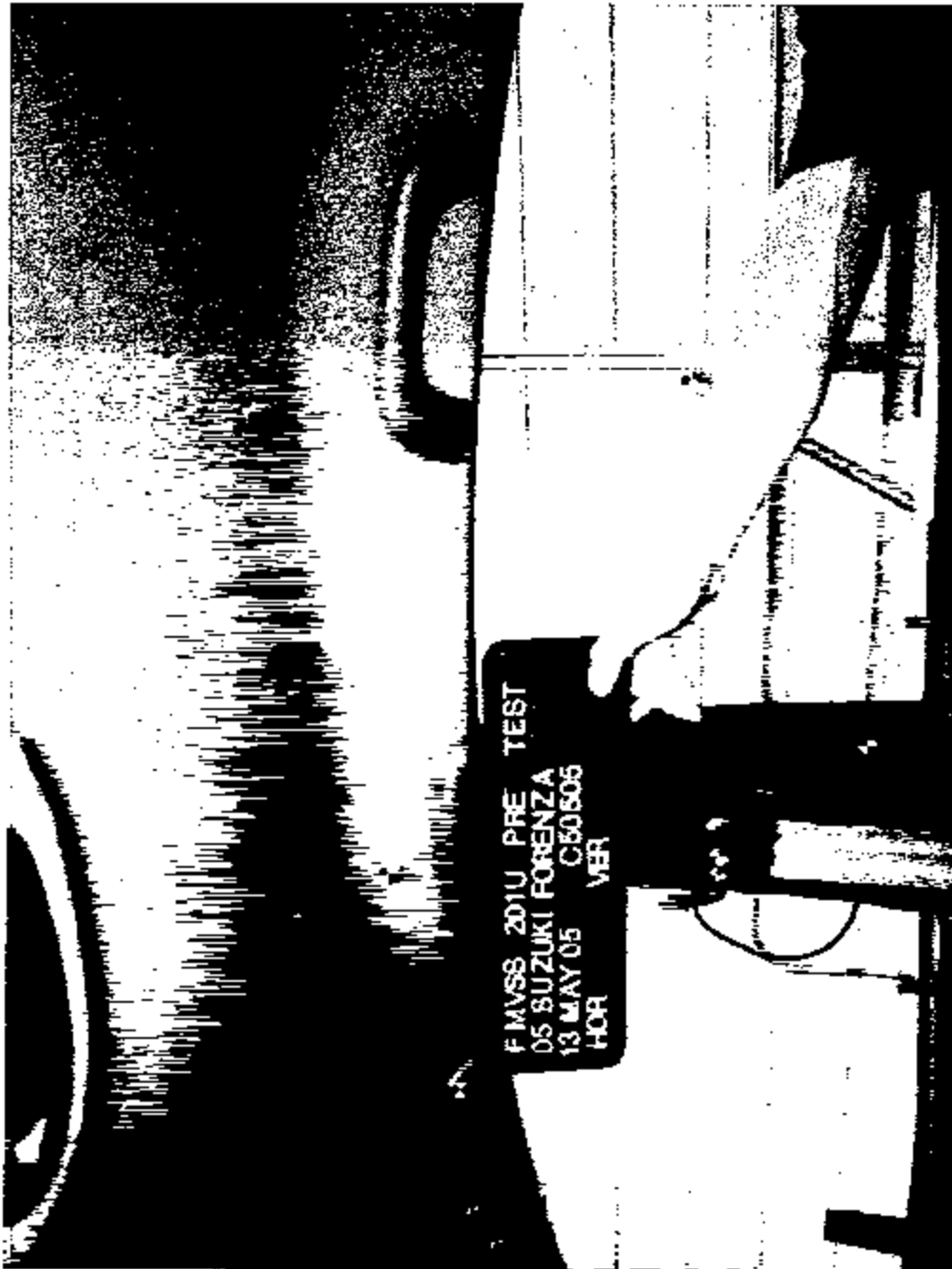


Figure A-15: PRE-TEST PASSENGER SIDE B-PILLAR

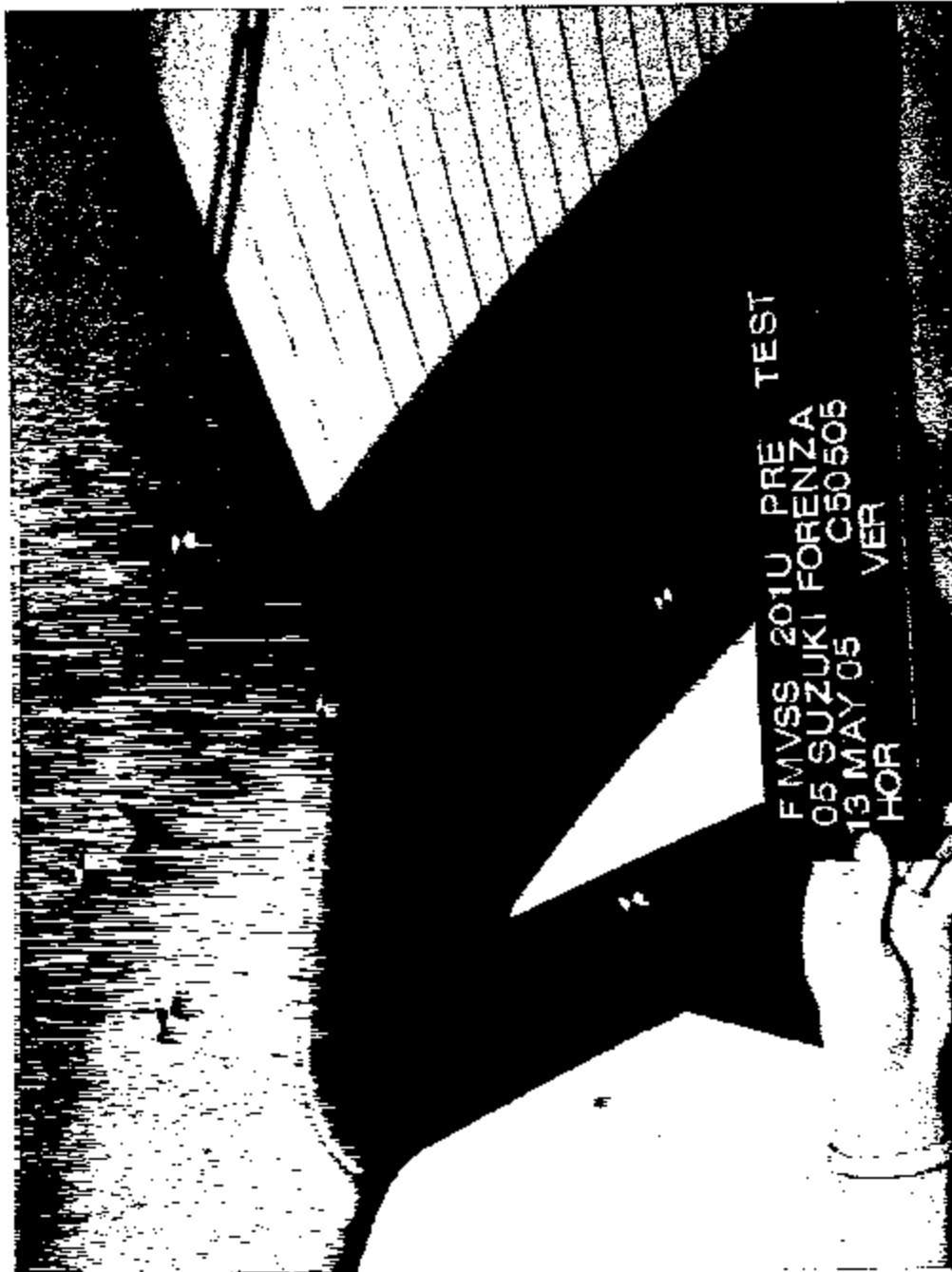


Figure A-16 : PRE-TEST PASSENGER SIDE REAR PILLAR



Figure A-17 : POST-TEST DRIVER SIDE A-PILLAR



Figure A-18 : POST-TEST DRIVER SIDE FRONT HEADER



Figure A-19 : POST-TEST DRIVER SIDE SIDE RAIL

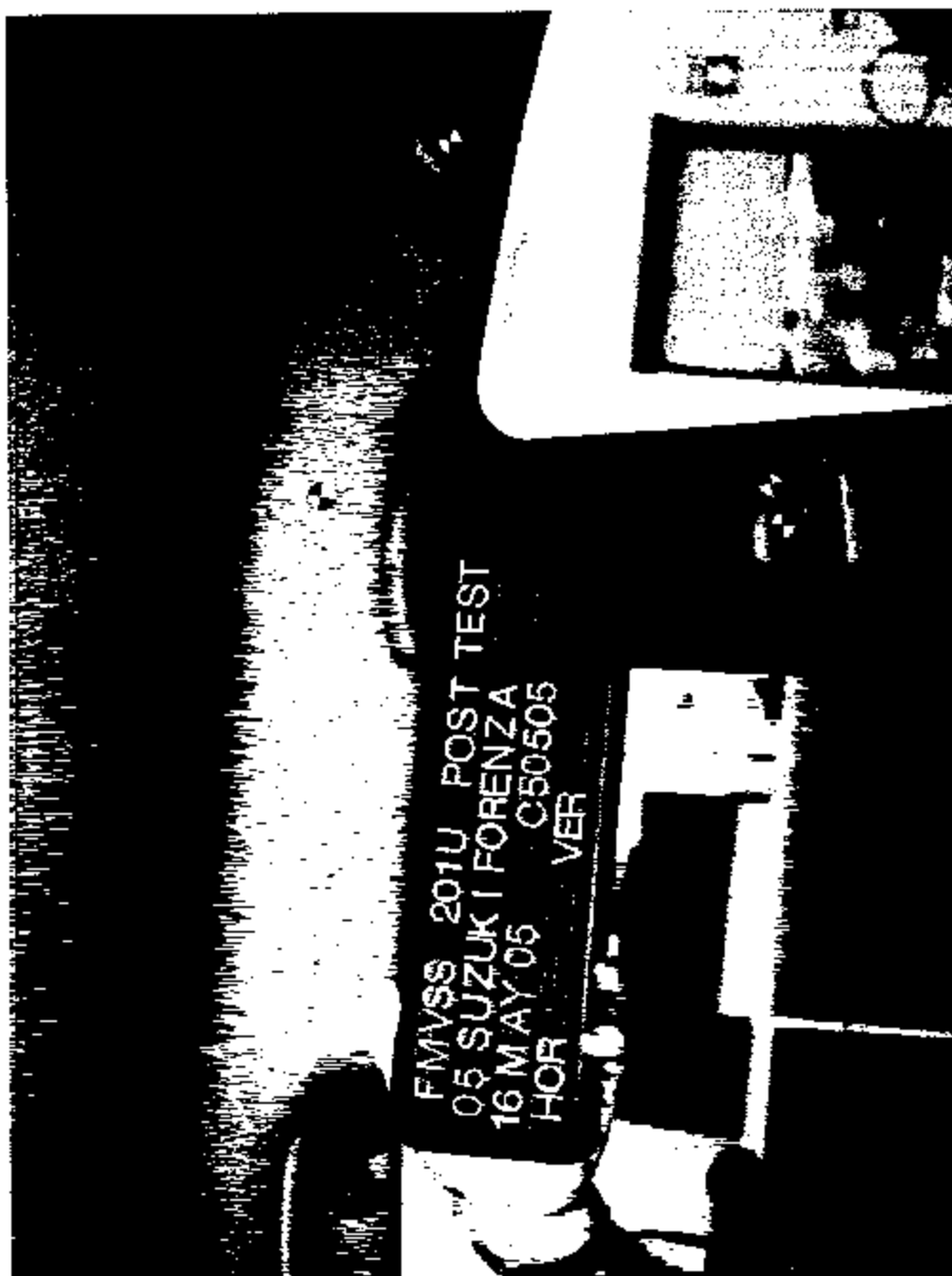


Figure A-20 : POST-TEST DRIVER SIDE B-PILLAR



Figure A-21 : POST-TEST DRIVER SIDE REAR PILLAR

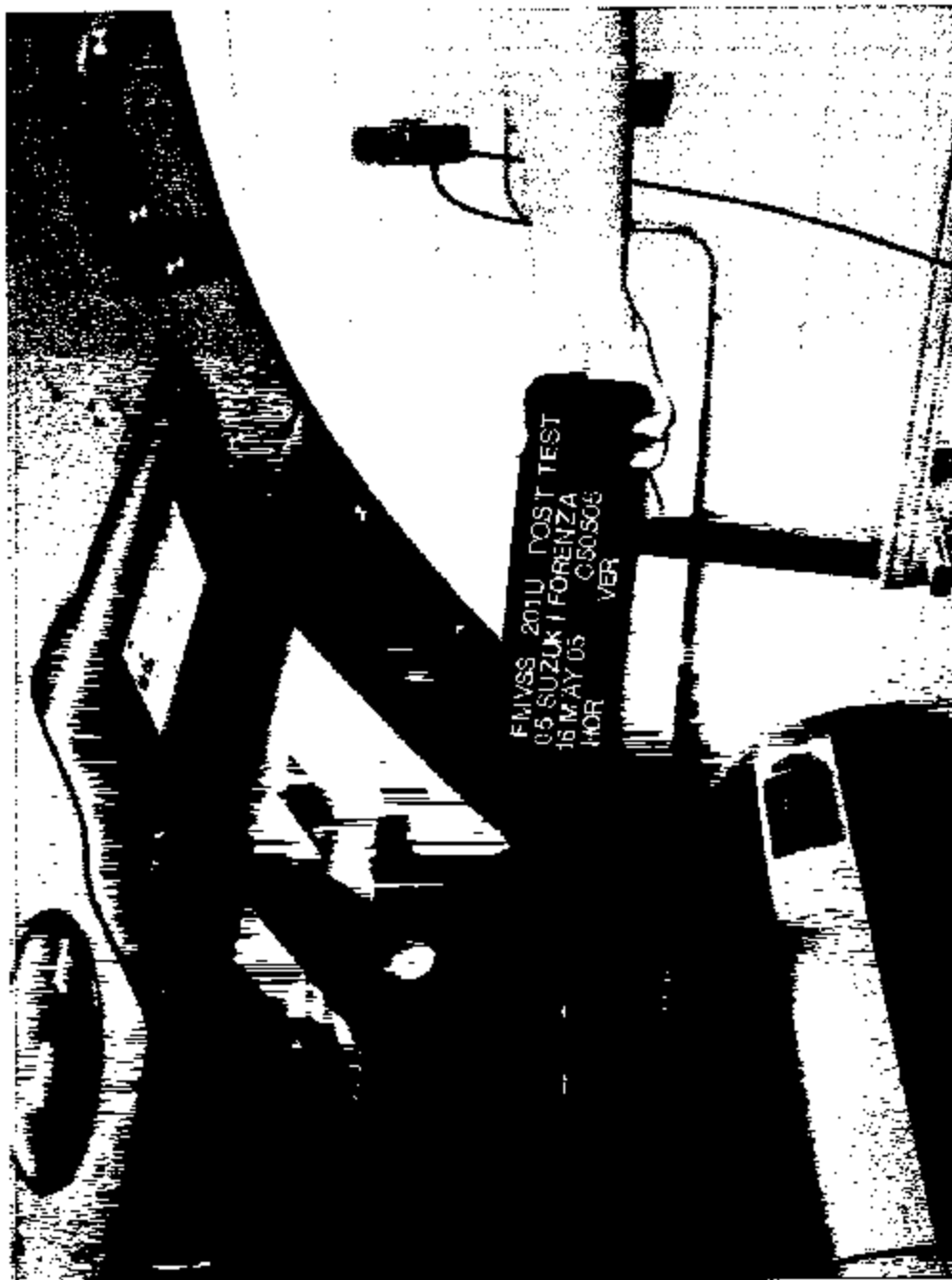


Figure A-22 : POST-TEST PASSENGER SIDE A-PILLAR



Figure A-23 : POST-TEST PASSENGER SIDE FRONT HEADER

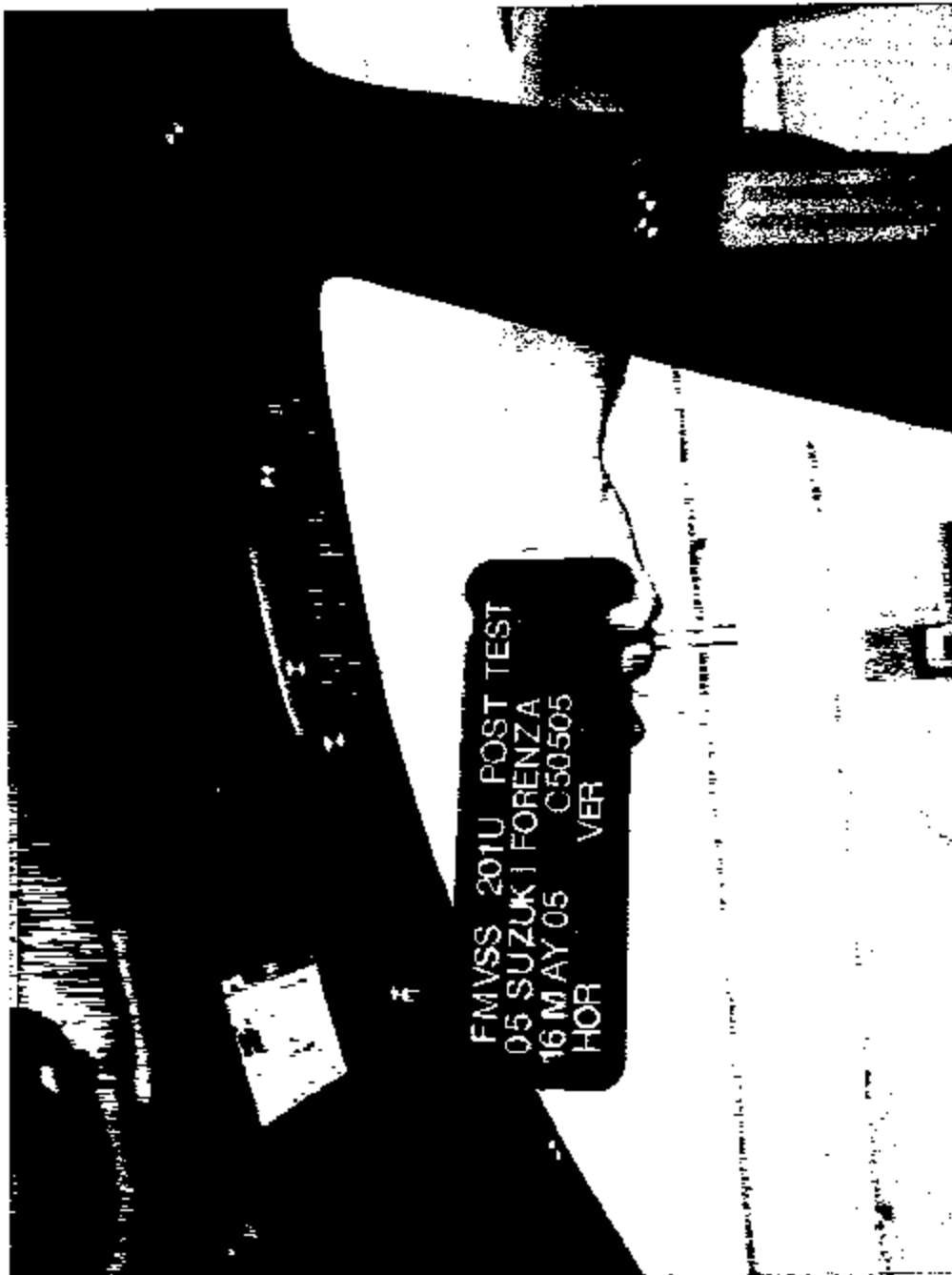


Figure A-24 : POST-TEST PASSENGER SIDE SIDE RAIL

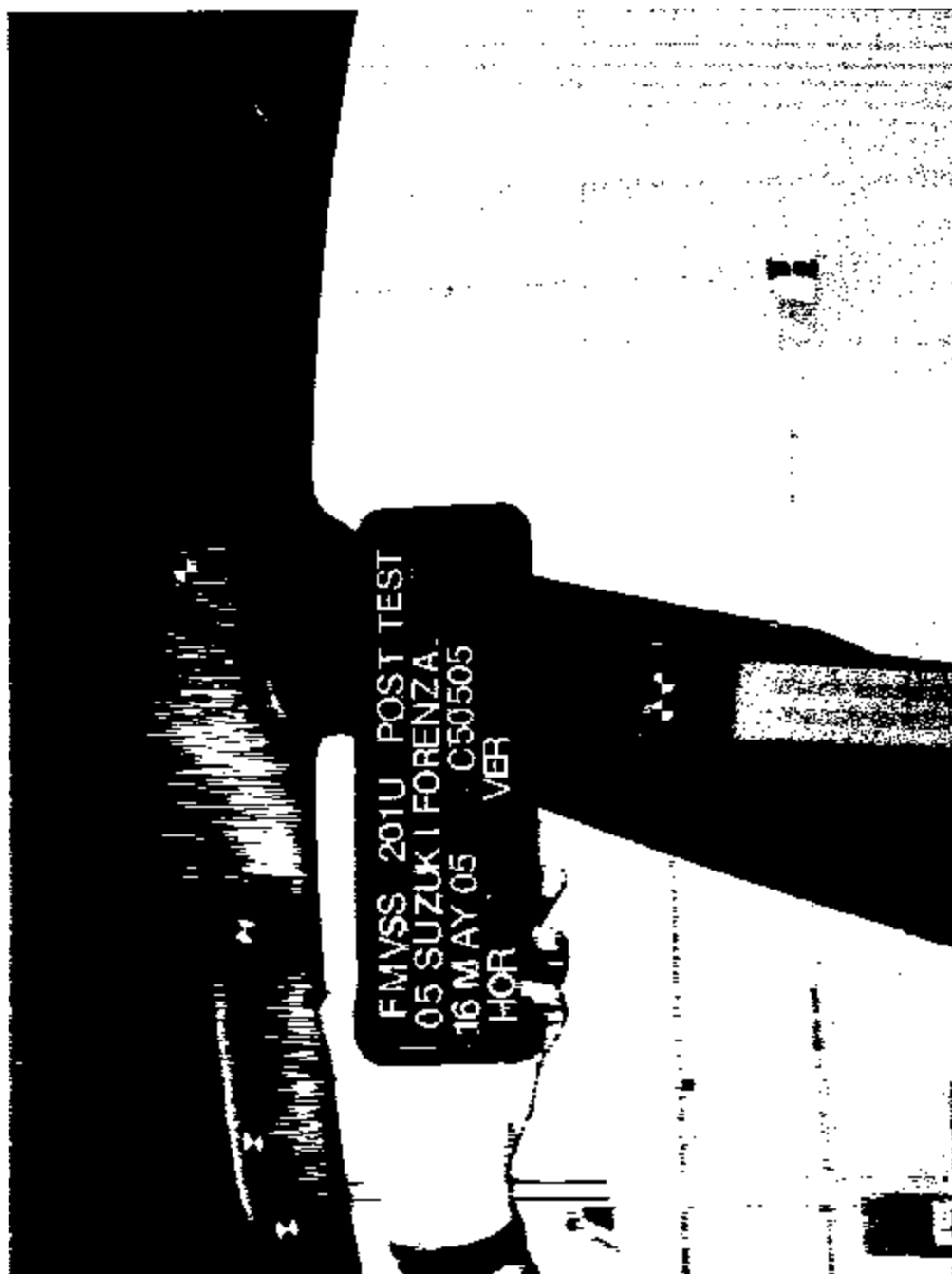


Figure A-25 : POST-TEST PASSENGER SIDE B-PILLAR

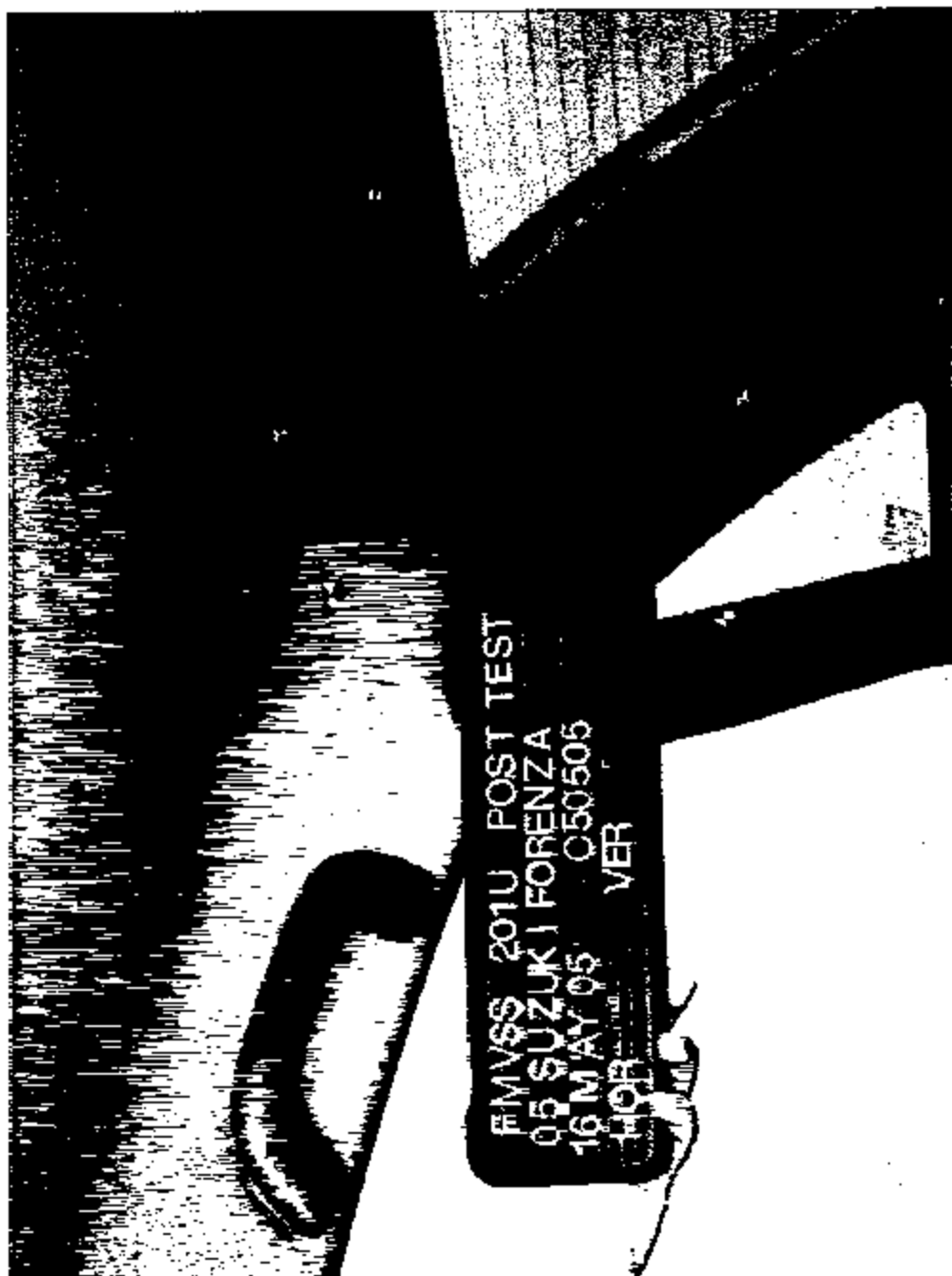


Figure A-26 : POST-TEST PASSENGER SIDE REAR PILLAR

APPENDIX B

PART 572L PERFORMANCE CALIBRATION IN SUPPORT OF VEHICLE SAFETY COMPLIANCE TESTING FOR OCCUPANT PROTECTION IN INTERIOR IMPACT

Appendix B contains the results from certification tests performed on the Free Motion Headforms utilized in this test program. The results indicate that the headforms meet all of the performance specifications given in 49 CFR Part 572 Subpart L.

The tests were conducted at the Dummy Certification Test Facility of Veridian Engineering. A summary of the test results are included in this Appendix.

**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		FIRST TECHNOLOGIES SAFETY SYSTEMS
SERIAL NUMBER:		0642
CALIBRATION DATE:		April 28, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	19°C to 26°C	22.8
RELATIVE HUMIDITY	10% to 70%	29
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	247.6
PEAK LATERAL ACCELERATION	15 Gs Maximum	13.1
IS ACCELERATION CURVE UNIMODAL?	YES	YES

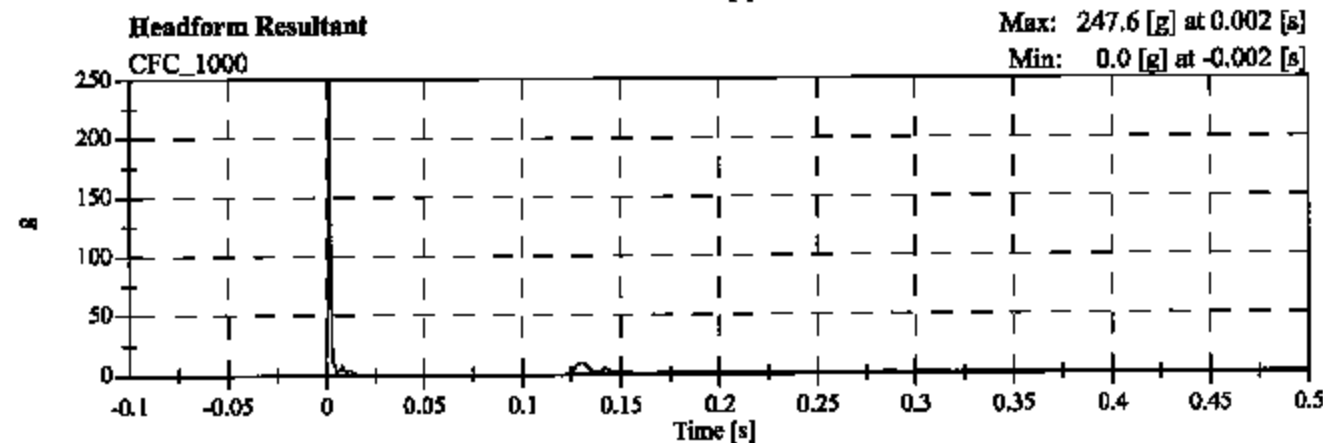
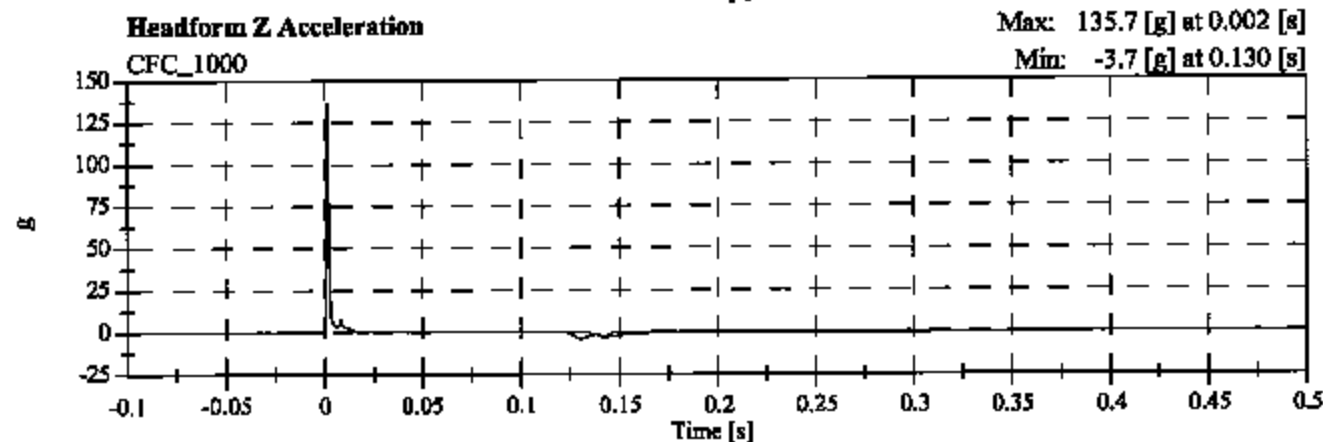
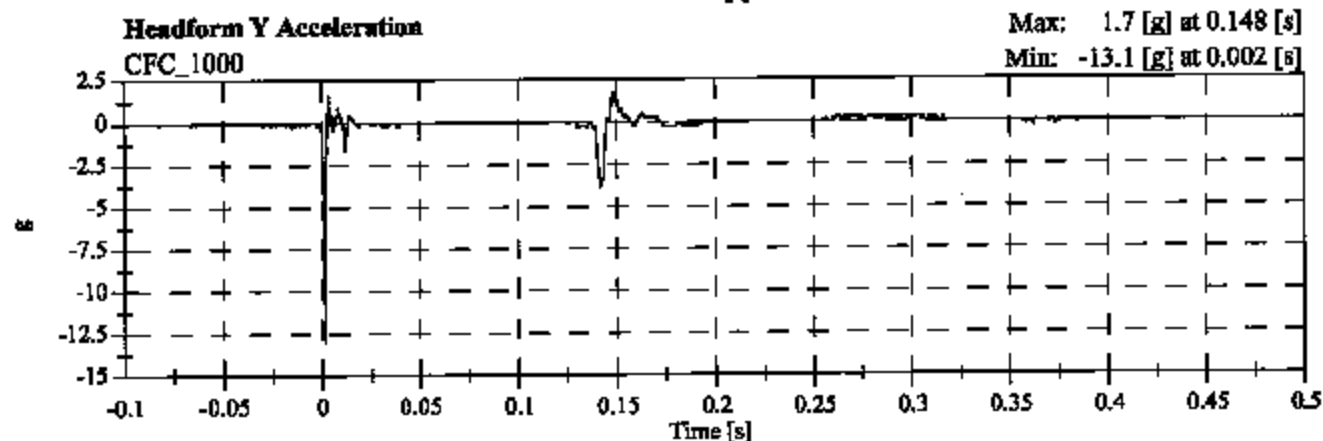
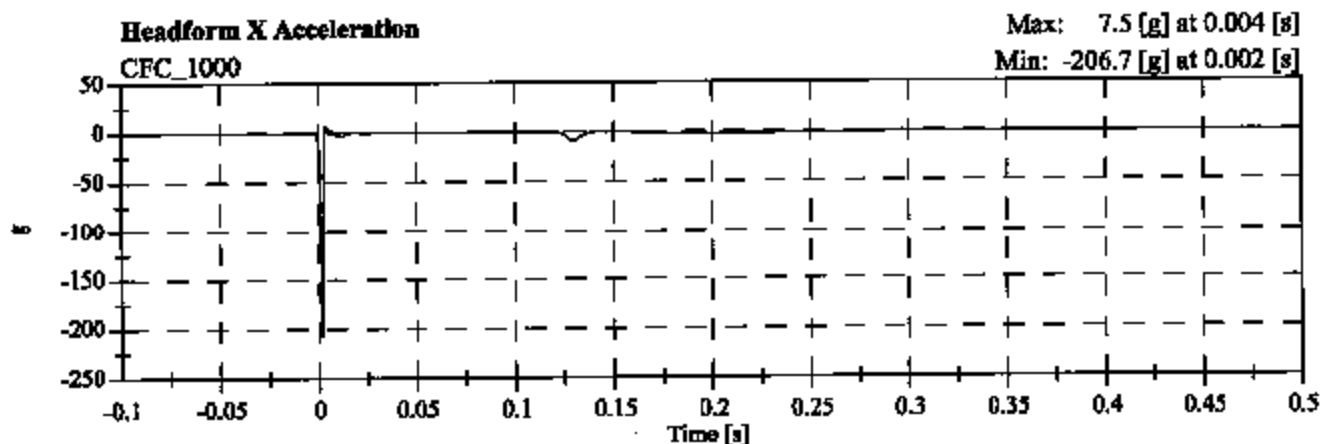
HEAD ACCELEROMETER CALIBRATION INFORMATION

LD. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J24876	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J33030	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J31009	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0642 - April 28, 2005



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		DENTON TECHNOLOGIES
SERIAL NUMBER:		0062
CALIBRATION DATE:		April 28, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	19°C to 26°C	22.8
RELATIVE HUMIDITY	10% to 70%	29
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	251.8
PEAK LATERAL ACCELERATION	15 Gs Maximum	4.6
IS ACCELERATION CURVE UNIMODAL?	YES	YES

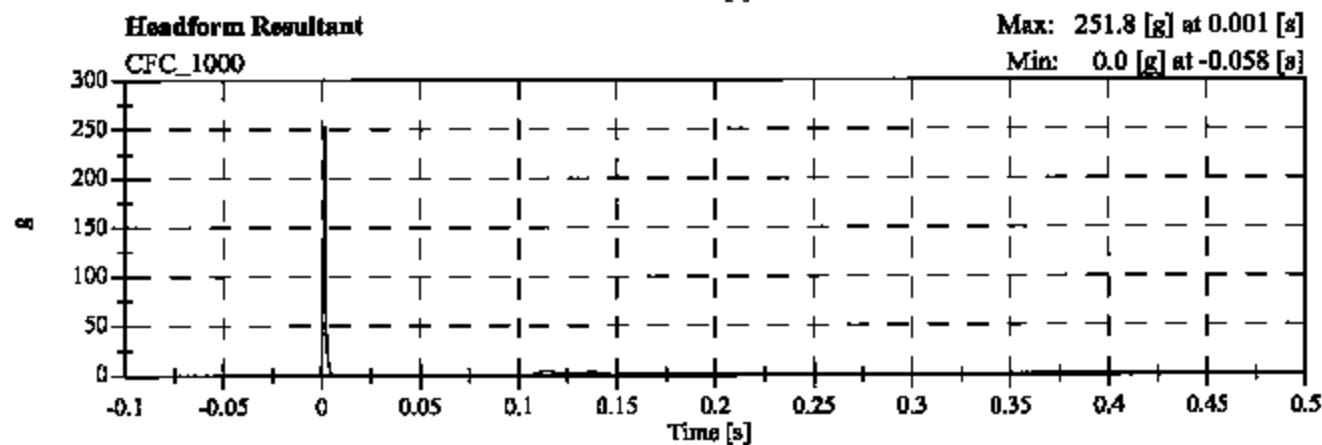
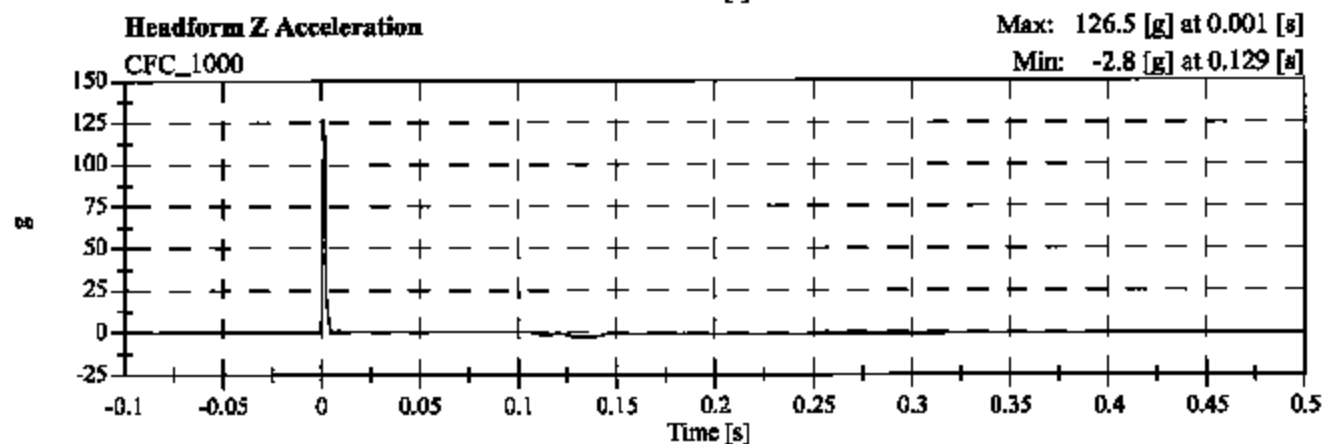
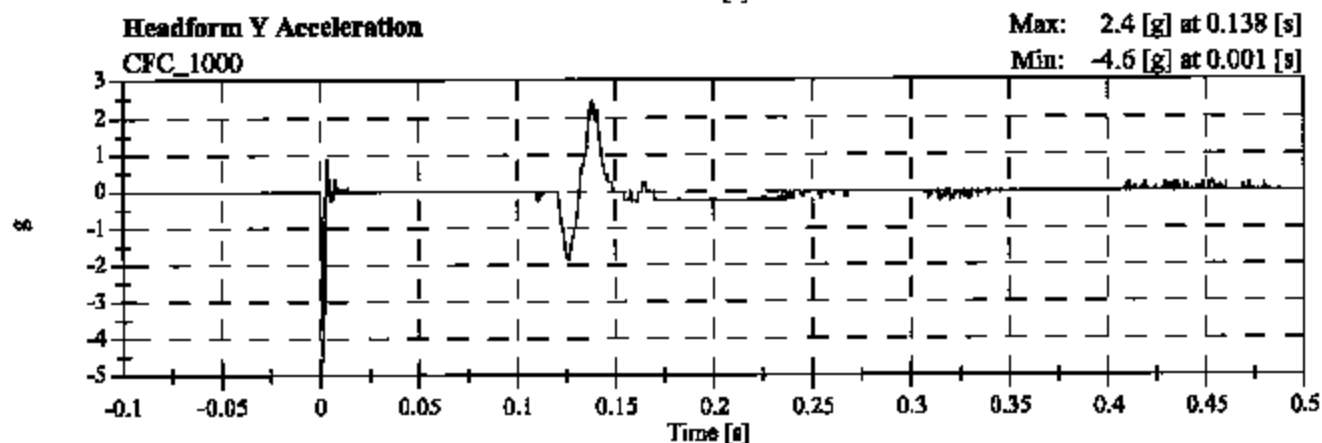
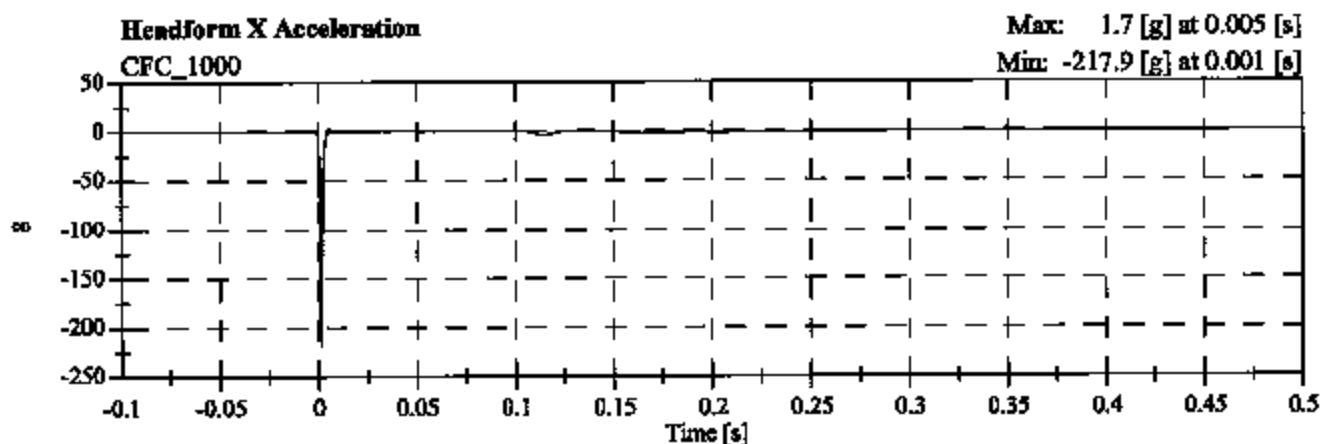
HEAD ACCELEROMETER CALIBRATION INFORMATION

ID. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J33127	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J33019	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J32782	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0062 - April 28, 2005



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		FIRST TECHNOLOGIES SAFETY SYSTEMS	
SERIAL NUMBER:		885	
CALIBRATION DATE:		April 28, 2005	
TEST PARAMETER	SPECIFICATION		TEST RESULTS
TEMPERATURE	19°C to 26°C		22.8
RELATIVE HUMIDITY	10% to 70%		29
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs		257.9
PEAK LATERAL ACCELERATION	15 Gs Maximum		11.9
IS ACCELERATION CURVE UNIMODAL?	YES		YES

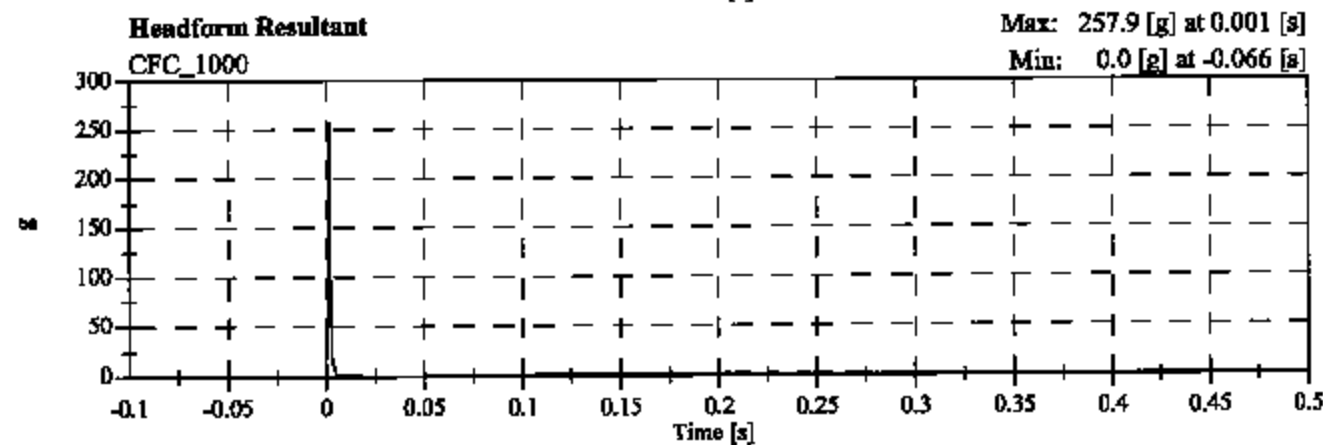
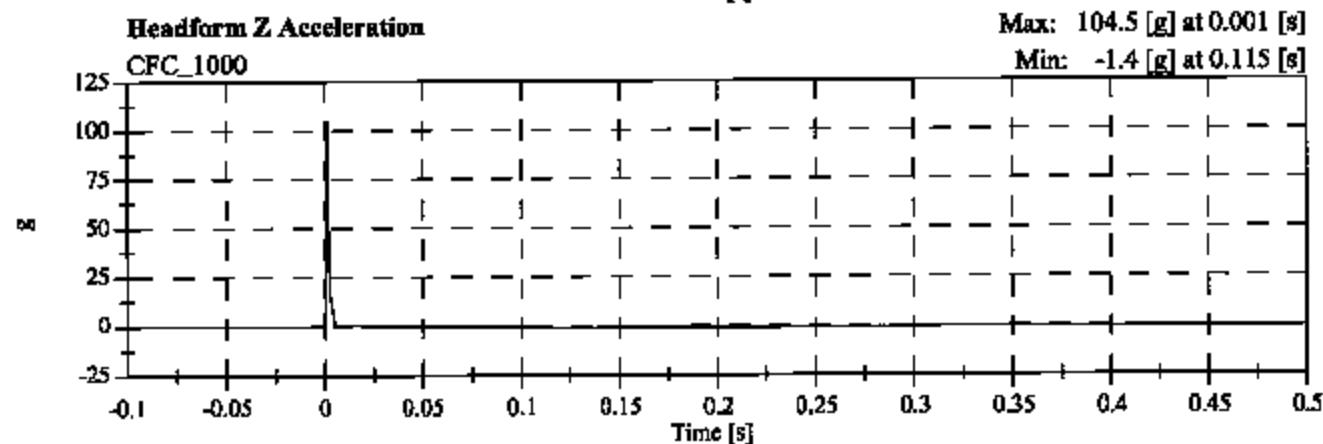
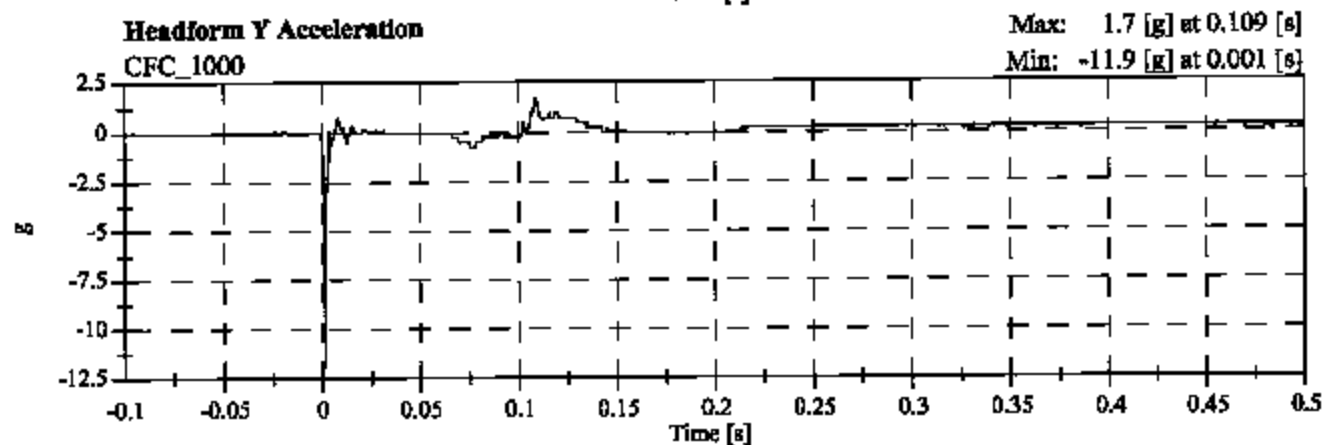
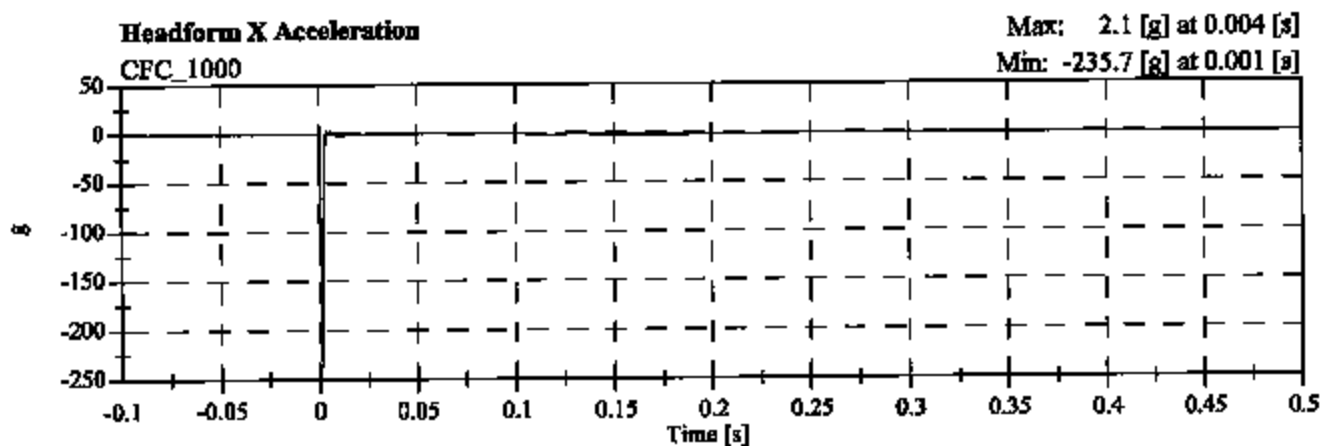
HEAD ACCELEROMETER CALIBRATION INFORMATION

LD. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41015	5/9/2005	11/9/2005
2 - LATERAL	ENDEVCO	7264-2000T	J41003	5/9/2005	11/9/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J36151	5/9/2005	11/9/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0805 - April 28, 2005



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		DENTON TECHNOLOGIES
SERIAL NUMBER:		0355
CALIBRATION DATE:		April 28, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	15°C to 36°C	22.8
RELATIVE HUMIDITY	10% to 70%	29
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	251.1
PEAK LATERAL ACCELERATION	15 Gs Maximum	8.4
IS ACCELERATION CURVE UNIMODAL?	YES	YES

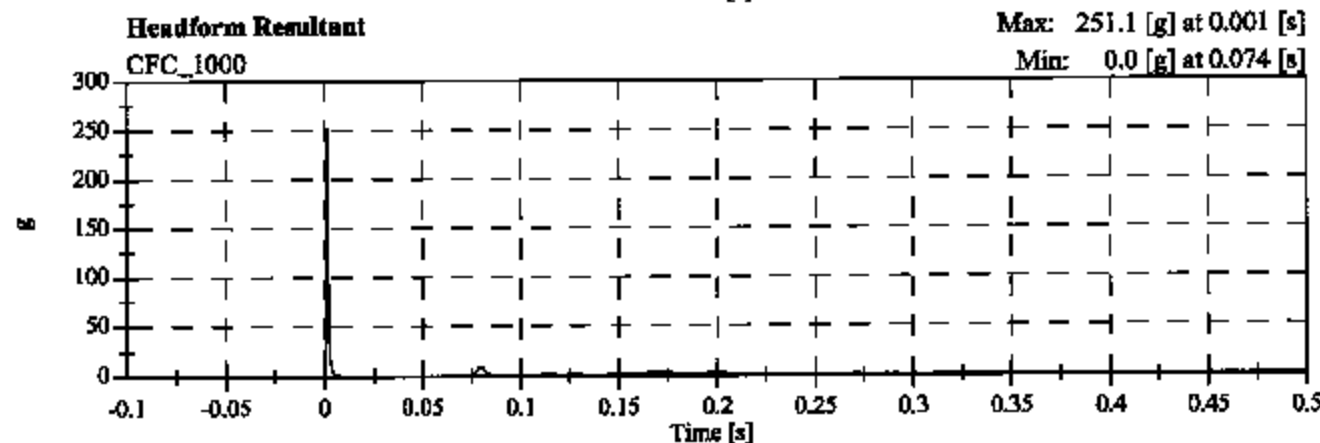
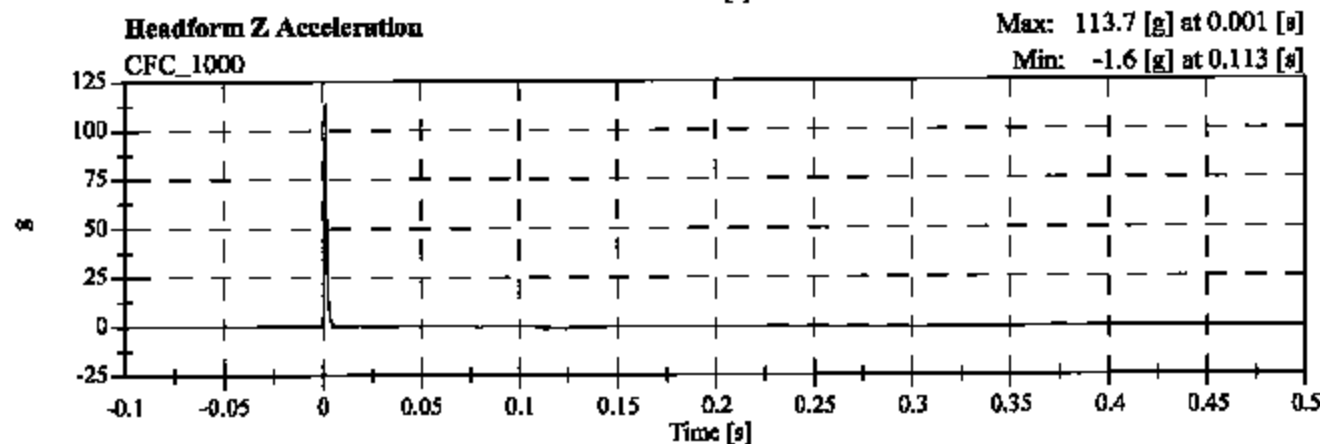
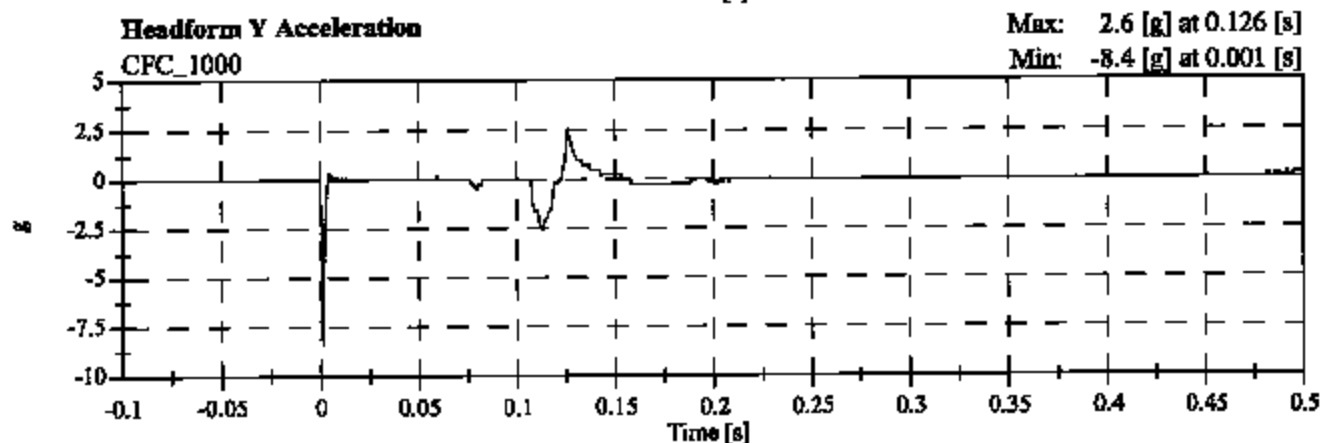
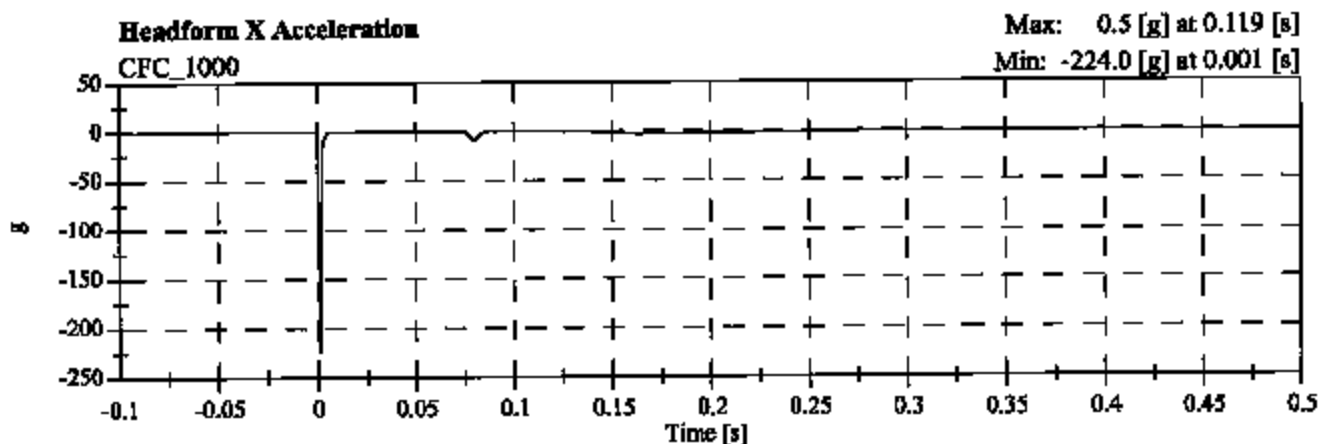
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J28671	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J32779	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J25854	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0355 - April 28, 2005



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		FIRST TECHNOLOGIES SAFETY SYSTEMS	
SERIAL NUMBER:		1255	
CALIBRATION DATE:		April 28, 2005	
TEST PARAMETER	SPECIFICATION		TEST RESULTS
TEMPERATURE	19°C to 26°C		22.8
RELATIVE HUMIDITY	10% to 70%		29
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs		230.3
PEAK LATERAL ACCELERATION	15 Gs Maximum		6.5
IS ACCELERATION CURVE UNIMODAL?	YES		YES

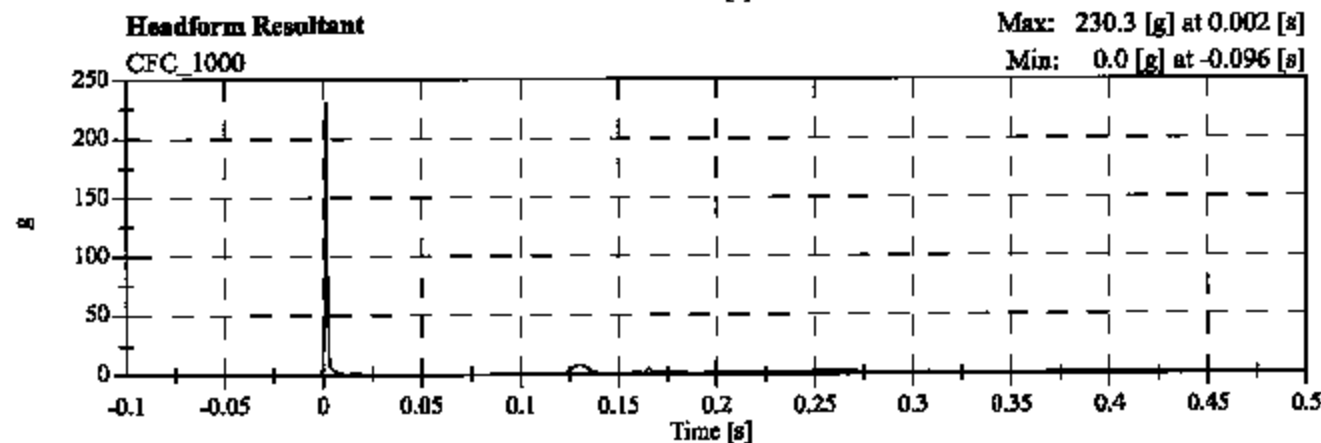
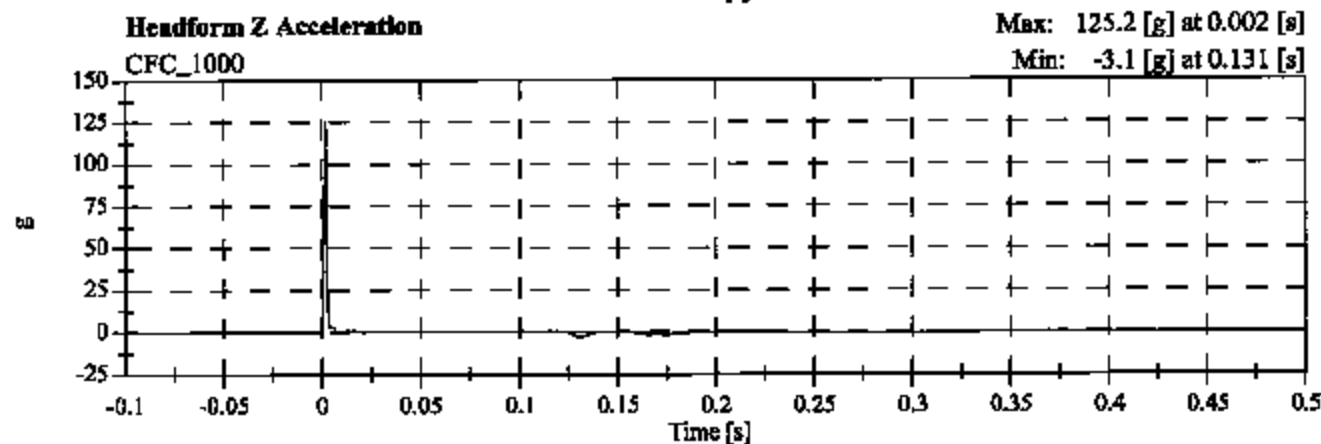
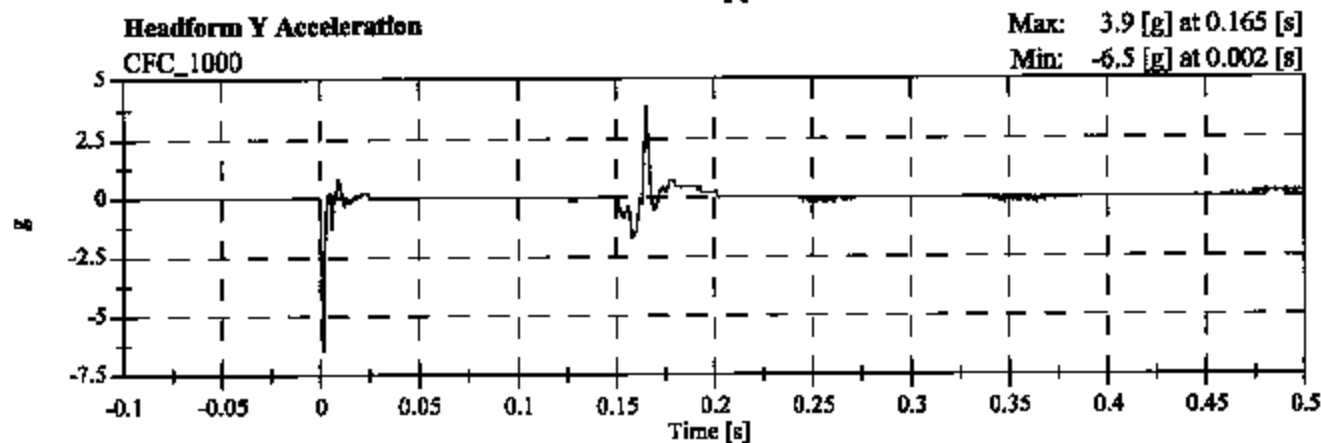
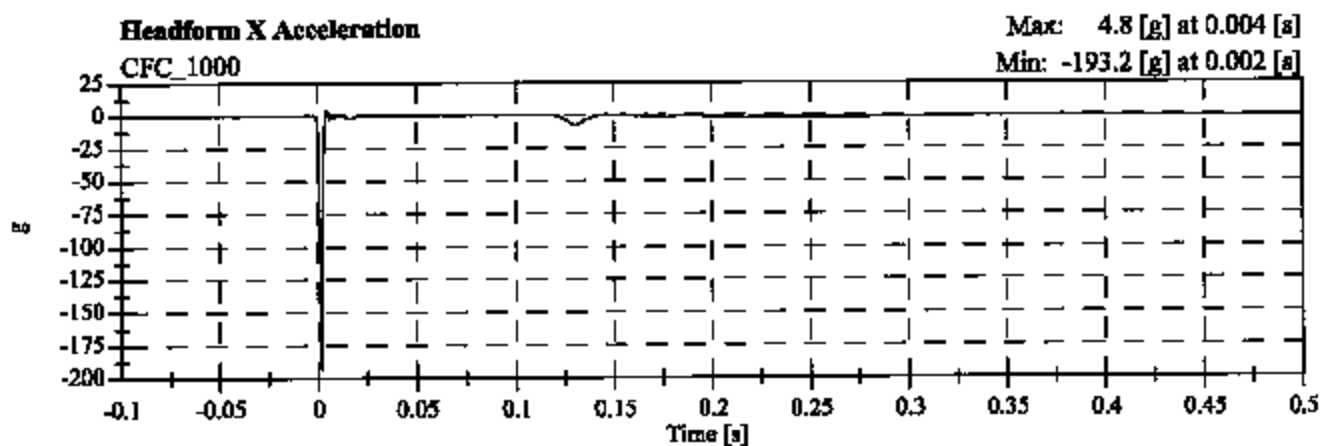
HEAD ACCELEROMETER CALIBRATION INFORMATION

ID. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41086	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J40994	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J41087	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 1255 - April 28, 2005



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		FIRST TECHNOLOGIES SAFETY SYSTEMS
SERIAL NUMBER:		0642
CALIBRATION DATE:		May 16, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	19°C to 26°C	22.2
RELATIVE HUMIDITY	10% to 70%	34
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	266.1
PEAK LATERAL ACCELERATION	15 Gs Maximum	9.4
IS ACCELERATION CURVE UNIMODAL?	YES	YES

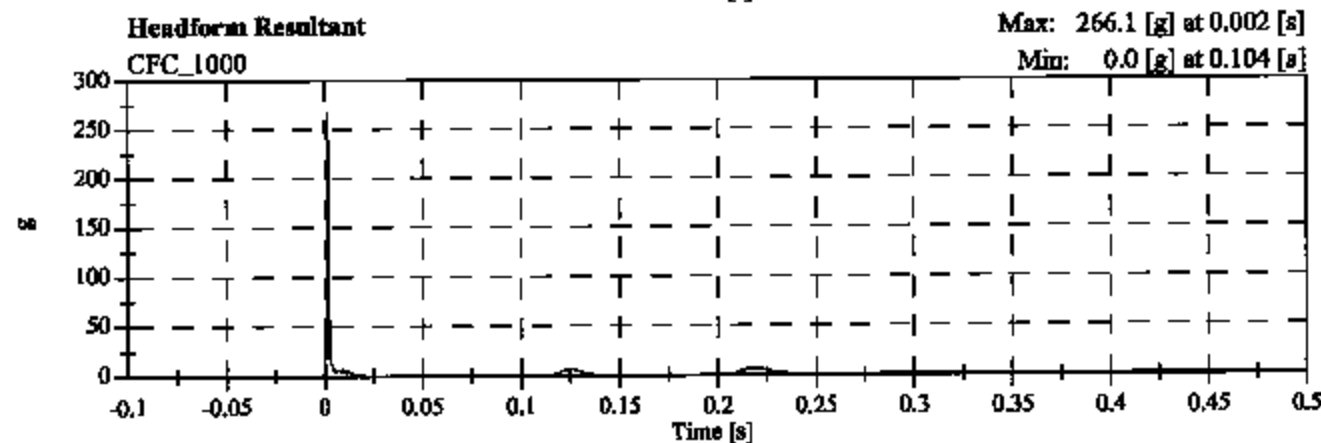
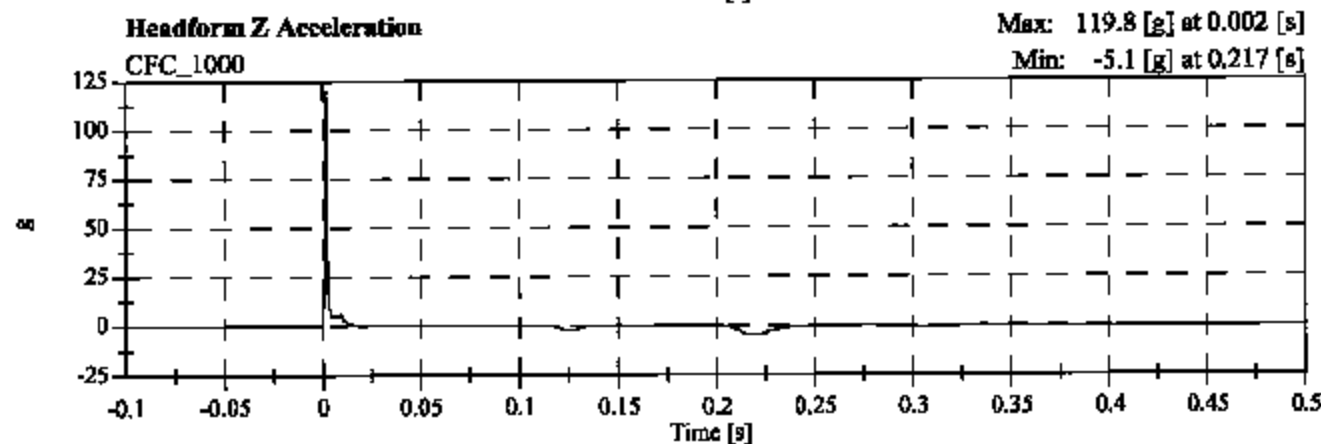
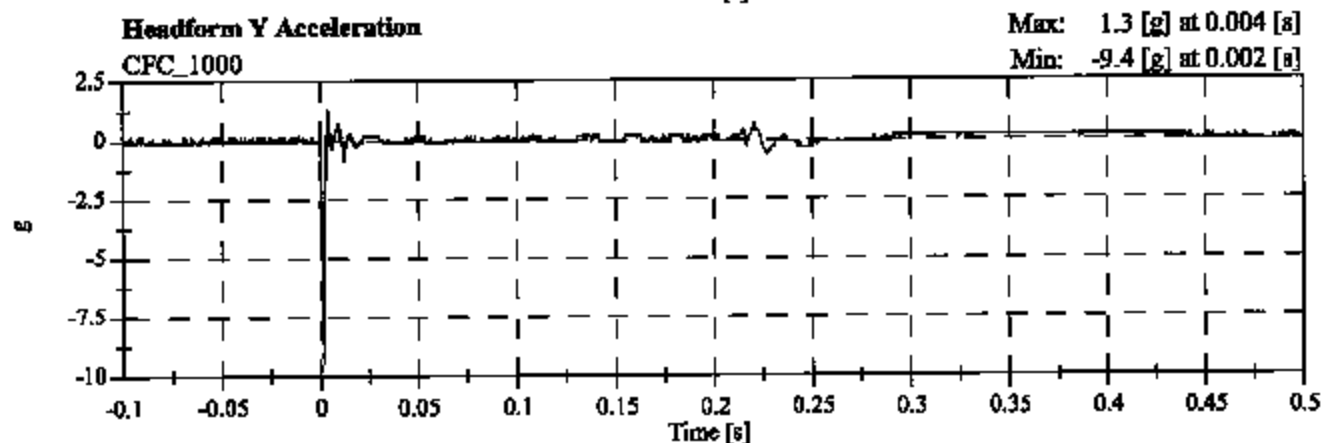
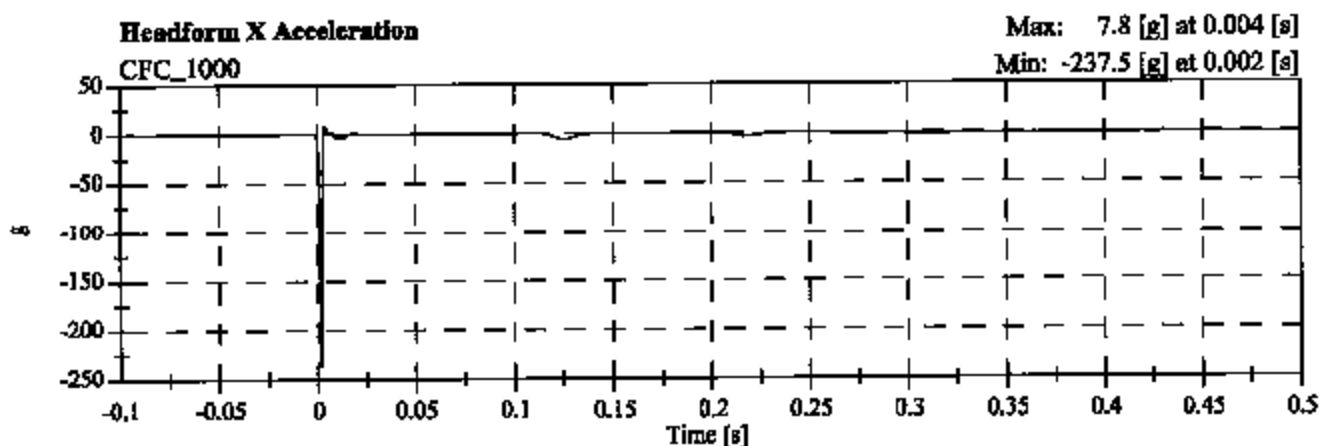
HEAD ACCELEROMETER CALIBRATION INFORMATION

ID. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J24876	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J33030	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J31009	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0642 - May 16, 2005



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		DENTON TECHNOLOGIES
SERIAL NUMBER:		8062
CALIBRATION DATE:		May 16, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	19°C to 26°C	22.2
RELATIVE HUMIDITY	10% to 70%	34
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	243.9
PEAK LATERAL ACCELERATION	15 Gs Maximum	11.9
IS ACCELERATION CURVE UNIMODAL?	YES	YES

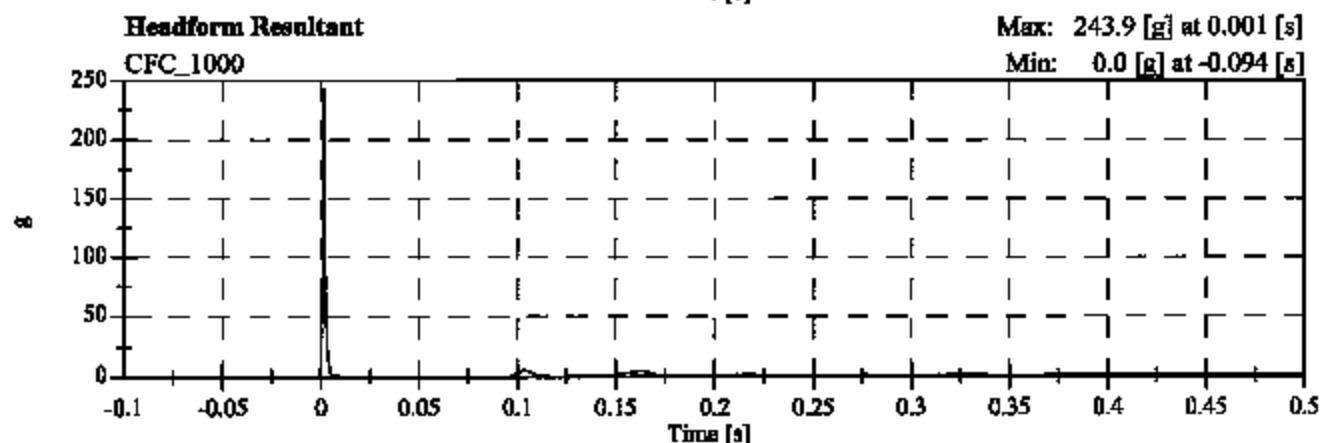
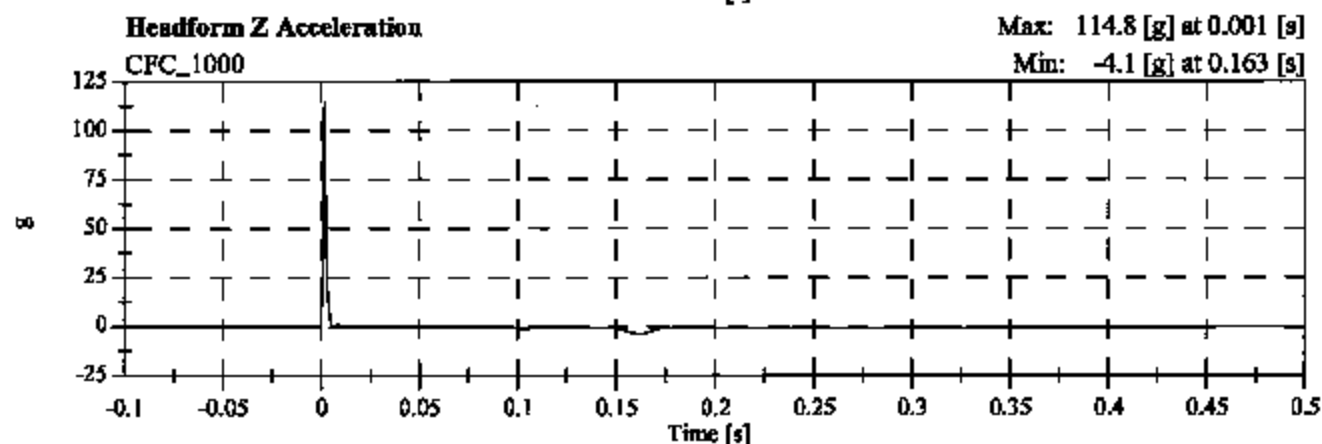
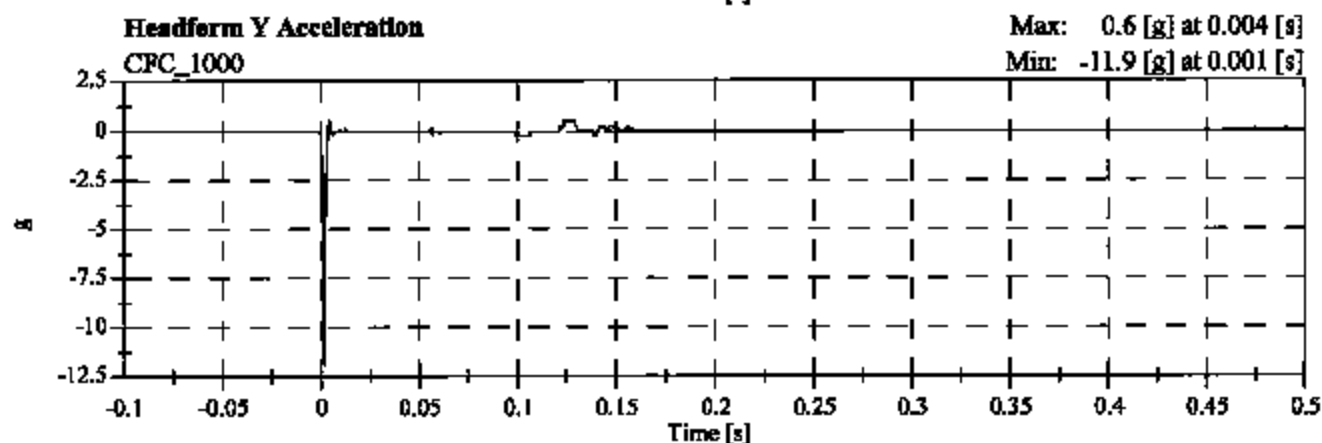
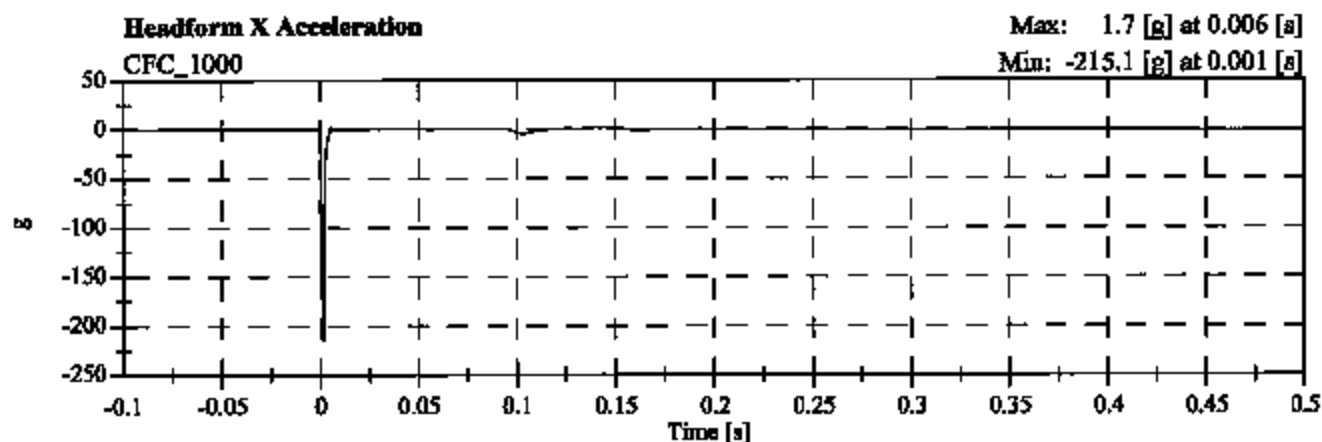
HEAD ACCELEROMETER CALIBRATION INFORMATION

ID. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J33127	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J33019	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J32782	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0062 - May 16, 2005



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		FIRST TECHNOLOGIES SAFETY SYSTEMS	
SERIAL NUMBER:		805	
CALIBRATION DATE:		May 16, 2005	
TEST PARAMETER	SPECIFICATION		TEST RESULTS
TEMPERATURE	19°C to 26°C		22.2
RELATIVE HUMIDITY	10% to 70%		34
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs		238.0
PEAK LATERAL ACCELERATION	15 Gs Maximum		9.2
IS ACCELERATION CURVE UNIMODAL?	YES		YES

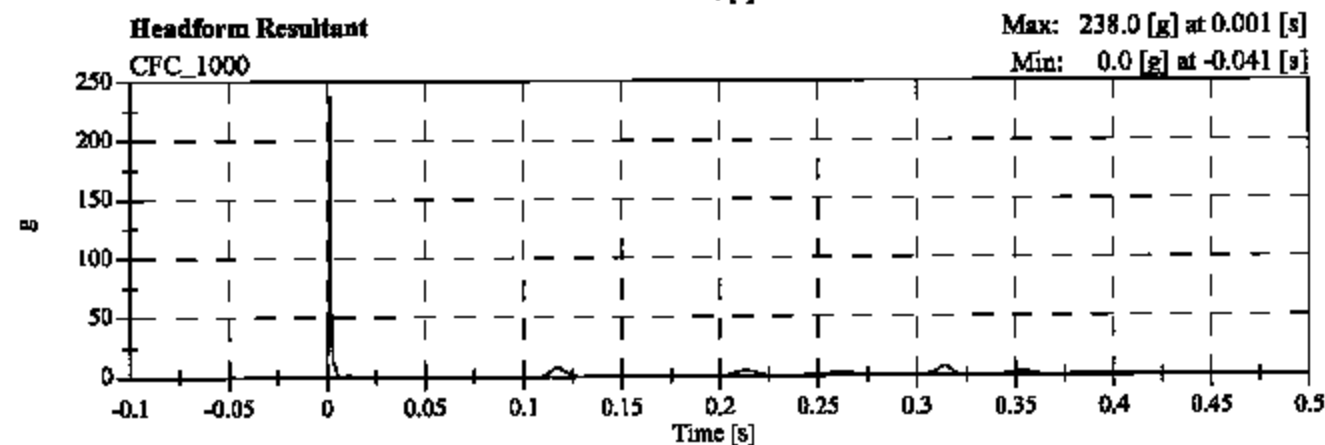
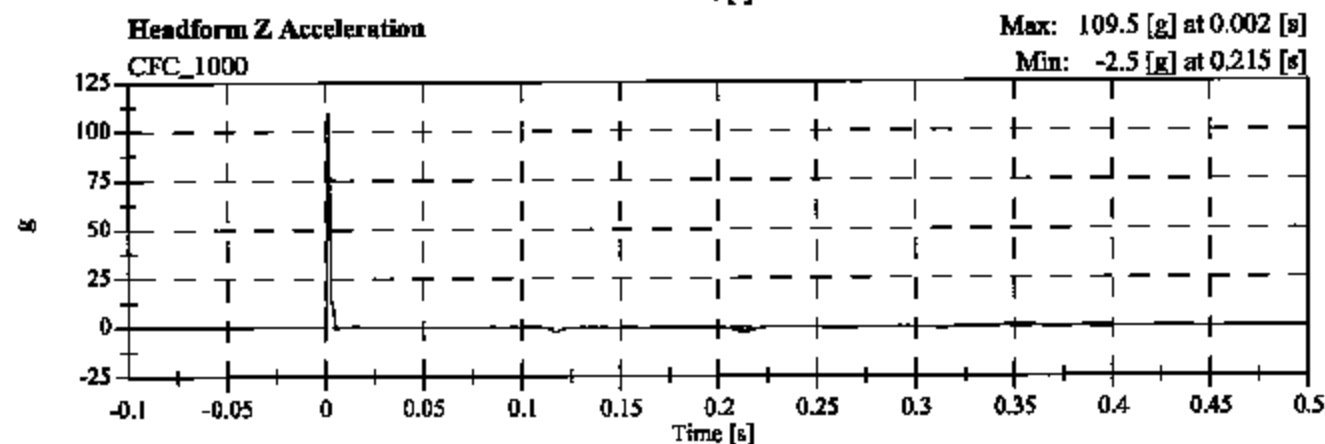
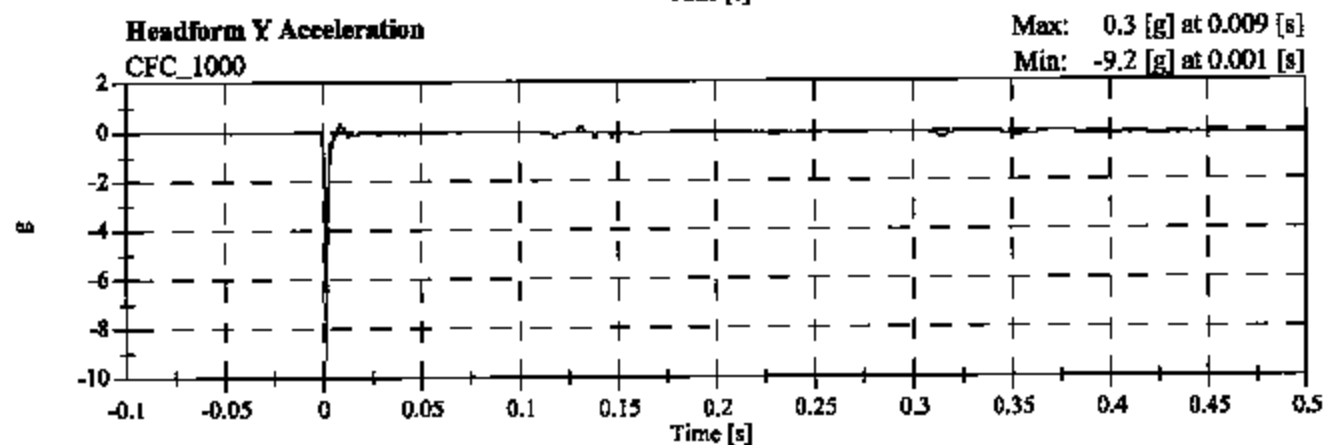
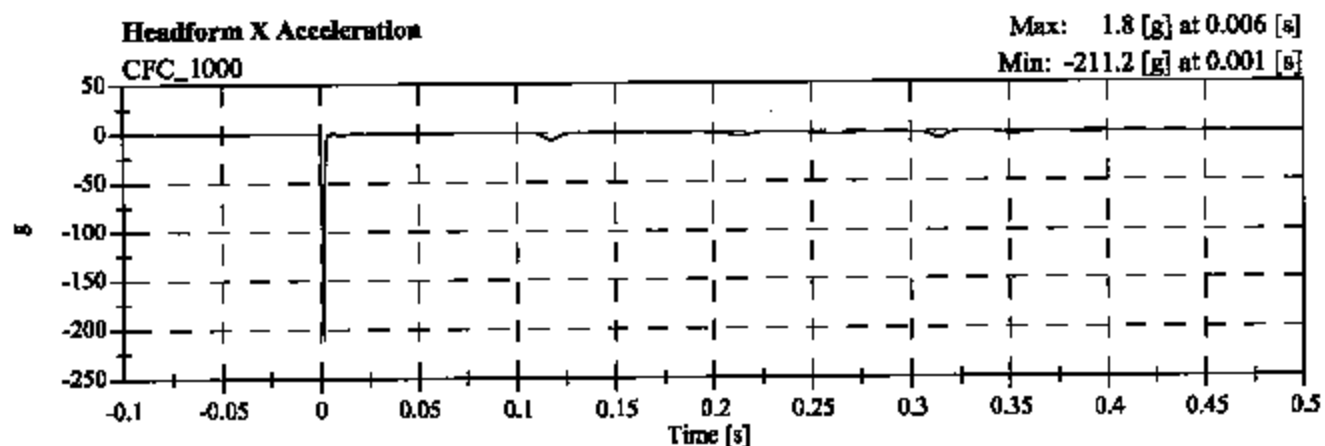
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41015	5/9/2005	11/9/2005
2 - LATERAL	ENDEVCO	7264-2000T	J41003	5/9/2005	11/9/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J36151	5/9/2005	11/9/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0805 - May 16, 2005



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		DENTON TECHNOLOGIES
SERIAL NUMBER:		0355
CALIBRATION DATE:		May 16, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	19°C to 26°C	22.2
RELATIVE HUMIDITY	10% to 70%	34
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	242.4
PEAK LATERAL ACCELERATION	15 Gs Maximum	14.8
IS ACCELERATION CURVE UNIMODAL?	YES	YES

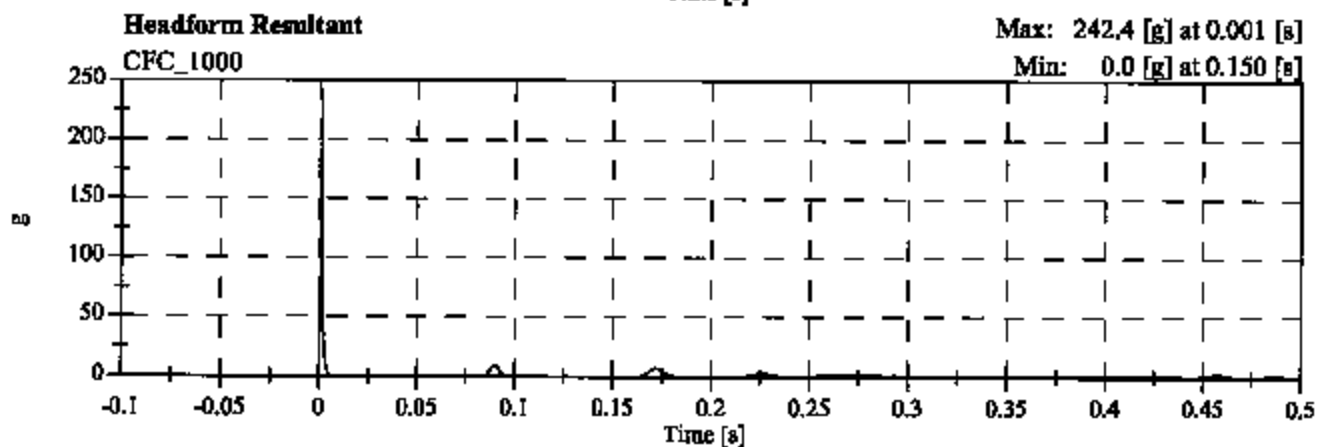
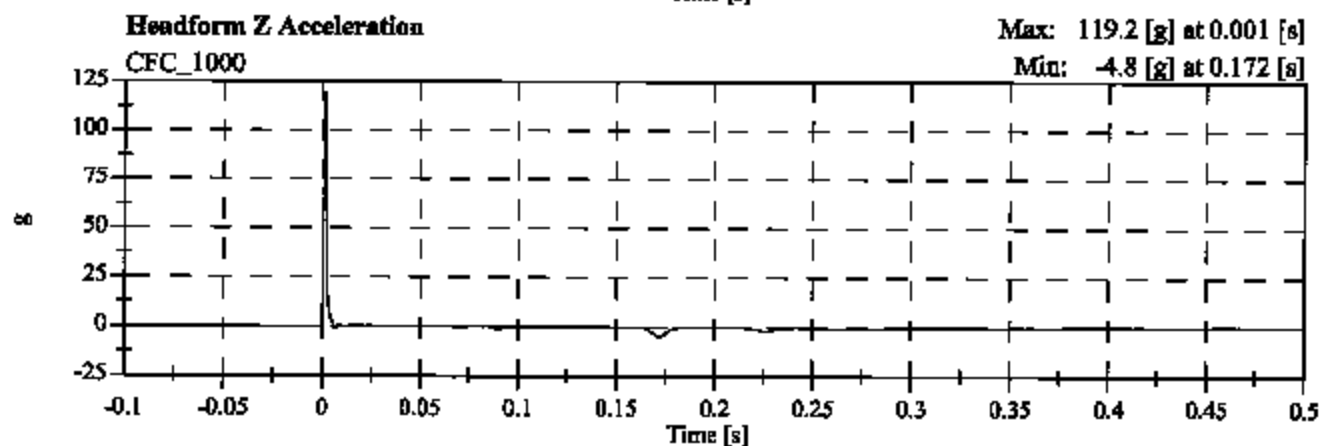
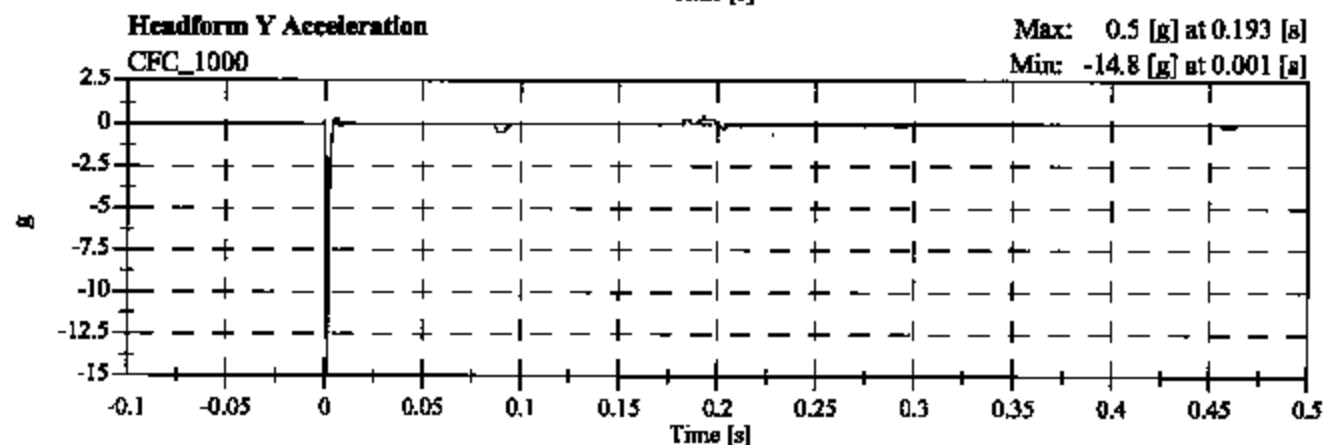
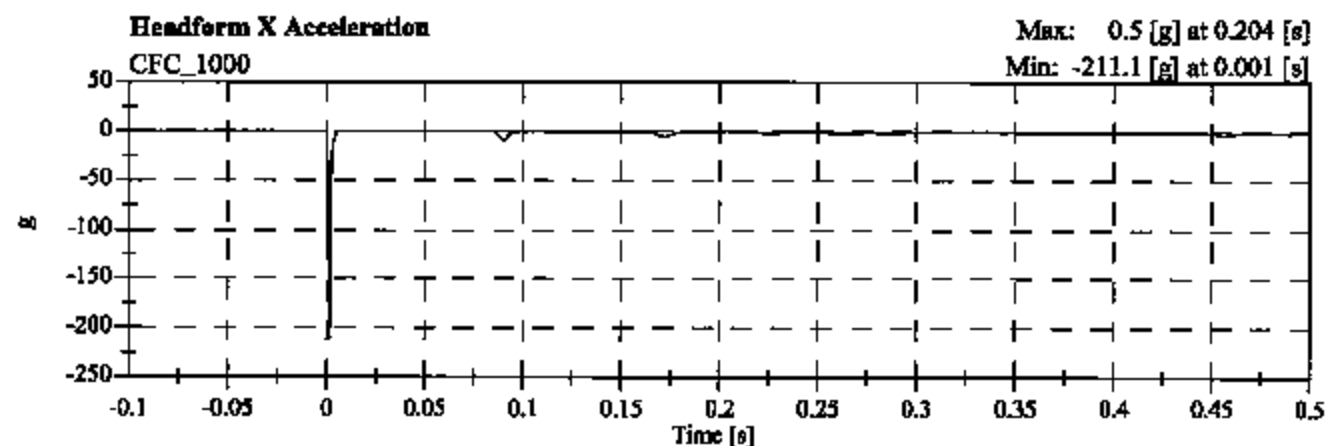
HEAD ACCELEROMETER CALIBRATION INFORMATION

LD. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J28671	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J32779	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J25854	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 0355 - May 16, 2005



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		FIRST TECHNOLOGIES SAFETY SYSTEMS
SERIAL NUMBER:		1255
CALIBRATION DATE:		May 16, 2005
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	19°C to 26°C	22.2
RELATIVE HUMIDITY	10% to 70%	34
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	269.2
PEAK LATERAL ACCELERATION	15 Gs Maximum	13.9
IS ACCELERATION CURVE UNIMODAL?	YES	YES

HEAD ACCELEROMETER CALIBRATION INFORMATION

LD. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41006	3/16/2005	9/16/2005
2 - LATERAL	ENDEVCO	7264-2000T	J40994	3/16/2005	9/16/2005
3 - VERTICAL	ENDEVCO	7264-2000T	J41007	3/16/2005	9/16/2005

REMARKS:

FMVSS 201U - Headform Calibration Drops

HEADFORM 1255 - May 16, 2005

