REPORT NUMBER: 201UI-CAL-07-03

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

DAIMLERCHRYSLER CORP.
2007 JEEP COMPASS
SPORT 4X4

NHTSA NUMBER: C70308

CALSPAN TEST NUMBER: 8826-FMH-03

CALSPAN
TRANSPORTATION SCIENCES CENTER
P.O. BOX 400

BUFFALO, NEW YORK 14225

Test Date: May 16, 2007

FINAL REPORT

PREPARED FOR:

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
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16. Abstract

Compliance tests were conducted on the subject vehicle, a 2007 Jeep Compass, Sport 4x4, 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 2007 Jeep Compass, Sport 4x4, NHTSA No. C70308, 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 2007 Jeep Compass, Sport 4x4 , NHTSA No.C70308 , was tested at various upper interior locations 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 Officer's Technical Representative (COTR). A summary of test results can be found on Data Sheet 2-1, Summary of Upper Interior Head Impact Tests. The twelve (12) area chosen for testing were:

OP1	RP1	BP4	BP1	SR2A
AP3	AP1	OP2	RP2	BP3
URBP	AP2			

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 had an orthogonal tri-axis accelerometer pack mounted at the headform's center of gravity (c.g.).

A total of three (3) channels of data for each test were recorded on a Keyser-Threde data acquisition system. Data plots, along with still images, can be found in Section 3, Summary of Test Results and Data Plots.

To document each target area impact test, a Weinberger high-speed video camera was placed at an appropriate location to record the headform contact with the selected target area.

DATA SHEET 2-1

SUMMARY OF UPPER INTERIOR HEAD IMPACT TESTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

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	1084.002	-531.637	1112.573	1079.465	536.346	1113.338	116°	43°	18.48	185.7	306.5
AP2	871.358	-581.634	1023.692	876.666	593.379	1023.584	216°	44°	18.84	445.7	502.7
AP3	746.618	-605.919	955.277	744.136	616.892	950.755	133°	44°	18.73	297.3	390.7
BP1	1565.034	-491.642	1186.188	1565.848	491.755	1189.252	90°	23°	18.59	310.3	400.5
BP2	1552.847	-578.226	964.438	1553.094	584.175	962.628	-	-	-	-	-
BP3	1496.620	-615.909	957.431	1497.978	621.771	956.302	270°	-4°	23.7	270.1	370.2
BP4	1606.783	-660.222	843.552	1608.465	665.153	843.721	136°	-10°	23.45	673.6	674.6
FH1	943.334	-424.533	1149.735	944.131	434.476	1148.981	Relocated 1 circle		-	-	-
FH1 R1	943.589	-399.562	1146.341	939.071	409.598	1145.205	-	-	-	-	-
FH2	921.227	-276.905	1152.581	920.672	285.834	1154.137	-	-	-	-	-
OP1	2361.985	-594.523	969.904	2359.156	599.418	962.624	90°	4°	23.54	599	618.3
OP2	2351.958	-587.591	992.246	2350.402	590.430	994.375	270°	-4°	23.48	444.8	502.0
RH	2753.796	-337.058	1132.557	2747.630	335.297	1141.765	-	-	-	-	-
RP1	2749.204	-516.436	1101.053	2745.453	516.957	1109.393	Relocated 1 circle		-	-	-
RP1 R1	2738.878	-495.440	1104.196	2744.165	492.088	1110.413	56°	33°	23.33	917.9	858.9
RP2	2640.489	-642.189	952.410	2836.072	614.200	979.885	Relocated 2 circles		-	-	-
RP2 R2	2689.082	-624.512	954.655	-	-	-	275°	-10°	23.54	748.2	730.9
SR1	1234.930	-493.743	1181.525	1231.961	497.770	1181.903	Relocated 1 circle		-	-	-
SRI R1	1239.896	-472.812	1187.415	1234.978	473.106	1189.062	-	-	-	-	-
SR2A	1381.739	-490.141	1194.503	1380.408	496.701	1191.861	Relocated 1 circle		-	-	-
SR2A R1	1367.574	-470.249	1198.273	1369.083	473.357	1199.414	90°	43°	18.70	331.4	416.4
SR2B	1268.377	-492.130	1184.767	1265.543	498.127	1183.358	Relocated 1 circle		-	-	-
SR2B R1	1273.866	-470.522	1190.680	1271.419	474.341	1191.741	-	-	-	-	-
SR3	1718.386	-490.439	1210.227	1715.564	495.920	1209.226	Relocated 1 circle		-	-	-
SR3 R1	1705.840	-469.011	1216.245	1705.247	474.774	1215.016	-	-	-	-	-

URAP	1172.842	-384.991	1201.715	1175.279	394.749	1206.068	-	-	-	-	-
URBP	1569.580	-348.827	1258.897	1564.253	398.521	1254.918	270°	50°	23.64	540.6	574.3
URFSR	1356.509	-371.662	1258.634	1361.382	412.493	1248.792	-	-	-	-	-
UROP	2321.918	-363.825	1272.072	2328.313	412.786	1266.564	-	-	-	-	-
URRP	2577.638	-414.000	1223.058	2574.283	413.448	1227.180	-	-	-	-	-
URRSR	2106.595	-353.998	1266.699	2113.054	410.201	1263.338	-	-	-	-	-

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

DATA SHEET 2-2

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:									
Year/Make/Model/Body Style:	2007 Jeep Compass, Sport 4x4								
VIN:	1J8FF47W17D205199								
Month & Year of Manufacture:	01/07 (SEE CERTIFICATION LABEL)								
Vehicle Body Color:	Green								
Engine Data:	4	Cylinders;	-	CID;	2.4	Liters;	-	cc	
Engine Placement:	x	Longitudinal;	or	-	Lateral				
Transmission:	5	Speed;	x	Manual;	-	Automatic;	-	Overdrive	
Final Drive:	-	Rear Wheel Drive;	-	Front Wheel Drive;	x	Four Wheel Drive			
Odometer Reading:	137	km							
Options:	x	A/C;	x	Power Steering;	x	Pwr.Brakes;	x	Pwr. Windows	
Interior Trim Information :									
1. B-pillar has adjustable seat anchorages									
2. Other pillar and passenger side Rear pillar are non-adjustable seat belt anchorages									
3. No grab handles located on side rails									

DATA FROM TIRE PLACARD:									
Tire Pressure (at capacity);	220	kPa FRONT							
	220	kPa REAR							
Recommended Tire Size:	P215/60R17								
Tires on Test Vehicle:	P215/60R17	Manufacturer:	Goodyear						
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)=	419	kg (A)							
No. of Occupants x 68 kg. =	340	kg (B)							
Rated Cargo/Luggage Weight (RCLW) =	79	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 =	406	kg	Left Rear =	308	kg
Right Front =	429	kg	Right Rear =	329	kg
TOTAL FRONT =	835	kg	TOTAL REAR =	637	kg
% of Total Weight =	56.7	%	% of Total Weight =	43.3	%
TOTAL WEIGHT =		1472	kg		

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:		
Total Test Vehicle Delivered Weight=	1472	kg (A)
+ Rated Cargo/Luggage Weight =	79	kg (B)
TEST VEHICLE TARGET WEIGHT =	1551	kg (A+B)

WEIGHT OF TEST VEHICLE (FULLY LOADED):					
Left Front =	397	kg	Left Rear =	372	kg
Right Front =	431	kg	Right Rear =	342	kg
TOTAL FRONT =	828	kg	TOTAL REAR =	714	kg
% of Total Weight =	53.7	%	% of Total Weight =	46.3	%
TOTAL TEST WEIGHT =		1542			
Weight of vehicle secured in test vehicles cargo area =		70	kg		

TEST VEHICLE ATTITUDE (all dimensions in millimeters):				
AS DELIVERED:	Left Front	790	Left Rear	815
	Right Front	796	Right Rear	817
FULLY LOADED:	Left Front	790	Left Rear	803
	Right Front	794	Right Rear	804
Test Vehicle Wheelbase:		-	millimeters	

TEST VEHICLE PITCH AND ROLL ANGLES:				
AS DELIVERED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↑1.2↓	Front Bumper	↑0.3↓
	Right Door Sill	↓1.5↑	Rear Bumper	0.0
FULLY LOADED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↑0.9↓	Front Bumper	0.0
	Right Door Sill	↓1.2↑	Rear Bumper	↓0.1↑
AS TESTED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↑1.1↓	Front Bumper	↑0.2↓
	Right Door Sill	↓1.5↑	Rear Bumper	↓0.1↑

DATA SHEET 2-3

APPROACH ANGLE LIMITS

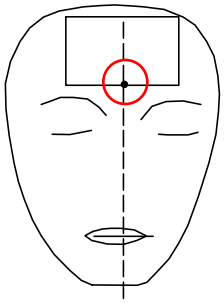
Left Side					Right Side				
Target Code	**Horizontal Angles (deg.)**		**Vertical Angles (deg.)**		**Target Code**	**Horizontal Angles (deg.)**		**Vertical Angles (deg.)**	
	Minimum	**Maximum**	**Minimum**	**Maximum**		**Minimum**	**Maximum**	**Minimum**	**Maximum**
AP1	204	252	-5	43	AP1	108	156	-5	43
AP2	204	252	-5	44	AP2	108	156	-5	44
AP3	204	252	-5	44	AP3	108	156	-5	44
BP1	202	289	-10	23	BP1	70	158	-10	23
BP2	ANY		0	5	BP2	ANY		0	5
BP3	202	289	-10	-4	BP3	70	158	-10	-4
BP4	202	289	-10	-10	BP4	70	158	-10	-10
OP1	ANY		0	4	OP1	ANY		0	4
OP2	270		-10	-4	OP2	90		-10	-4
RP1	270	345	-10	33	RP1	15	90	-10	33
RP2	270	345	-10	-10	RP2	ANY		0	0
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	42	SR1	90		0	42
SR2A	270		0	43	SR2A	90		0	43
SR2B	270		0	43	SR2B	90		0	43
SR3F	270		0	44	SR3F	90		0	44
SR3R	270		0	44	SR3R	90		0	44
URAP	ANY		0	50	URAP	ANY		0	50
URBP	ANY		0	50	URBP	ANY		0	50
URRP	ANY		0	50	URRP	ANY		0	50
URRSR	ANY		0	50	URRSR	ANY		0	50

Note : BP2, OP1 and Passenger side RP2 target locations – Seat belt anchorage

DATA SHEET 2-4

SUMMARY TARGET IMPACT LOCATION ON FMH

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green



ã RIGHT SIDE OF FACE

TARGET	Distance Above Point 0 (mm)	Distance Over From Pt. O (mm)
OP1	2	3L
RP1	61	0
BP4	4	5L
BP1	20	6L
SR2A	17	1L
AP3	15	0
AP1	20	13R
OP2	25	0
RP2	34	0
BP3	15	31L
URBP	36	7L
AP2	13	4R

SECTION 3

SUMMARY OF TEST RESULTS AND DATA PLOTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	01
Test Date:	05/15/07
Target Location:	OTHER PILLAR
Target Code:	OP1
Horizontal Impact Angle:	90°
Vertical Impact Angle:	4°
Ambient Temperature:	22.3 C°
Relative Humidity:	35.8
Time of Impact:	10:10
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	3		mm right	x	mm left
On Centerline	2	mm up			

POST-IMPACT OP1 HEADFORM (Placard date is May 15, 2007)

Free Motion HIC	599.0
HIC(d)	618.3
Impact Velocity (kph)	23.54
HIC T1 (msec)	2.4
HIC T2 (msec)	9.8

FMVSS 201U 2007 Jeep Compass C70308 - OP1

FMH Headform 0062

Location: OP1

Test Date: May 15, 2007

Work File: OP1

----------TEST RESULTS----------

Lab Temperature: 22.3 C

Lab Humidity: 35.8 %

Velocity at Impact: 23.54 KPH

Free Flight Distance: 221.71 mm

Maximum: 118.5 g

HICd: 618.3

HIC (36ms): 599.0

t1: 2.4 msec

t2: 9.8 msec

Duration: 7.5 msec

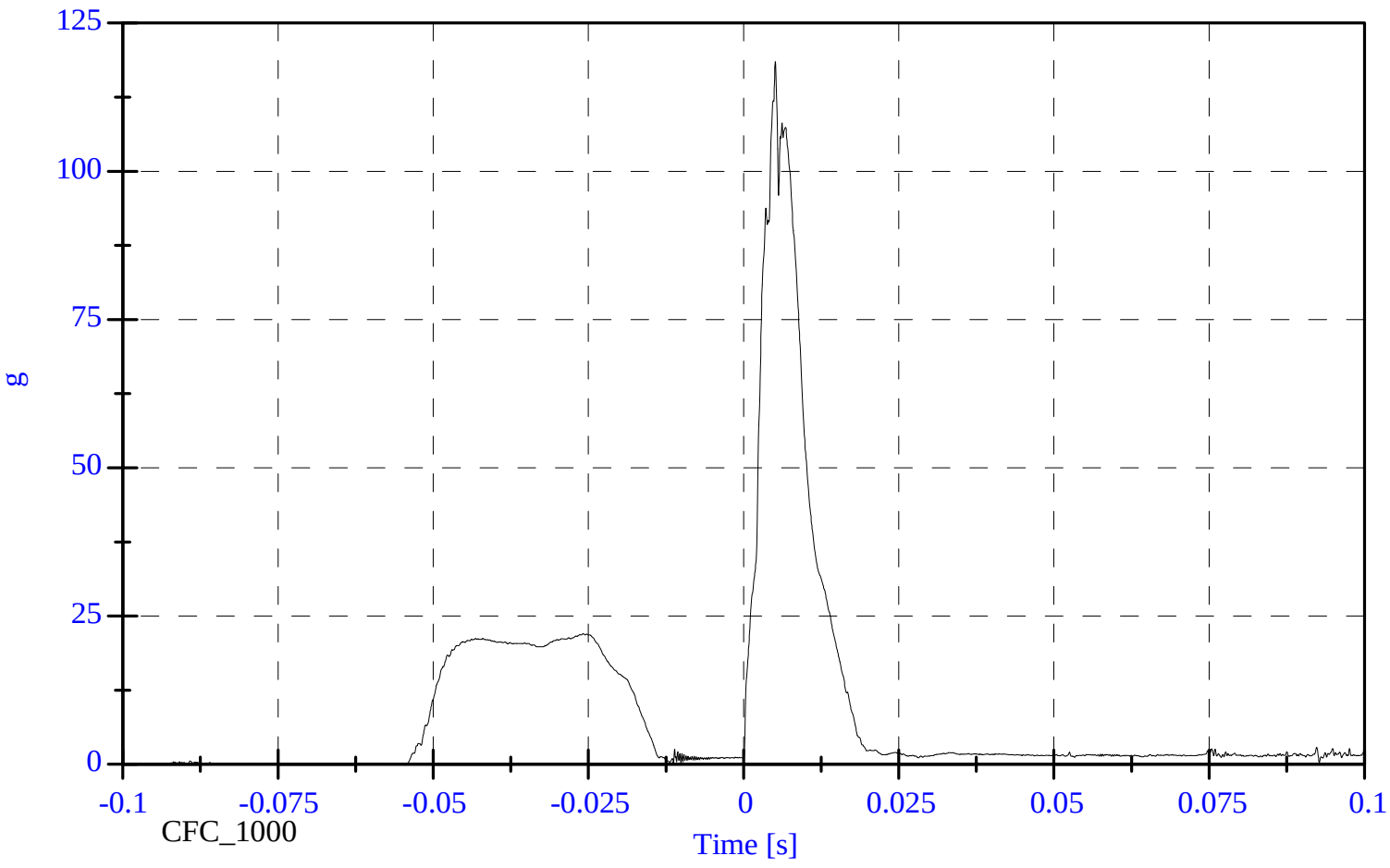
Average Acceleration: 8.9 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 118.5 [g] at 0.005 [s]

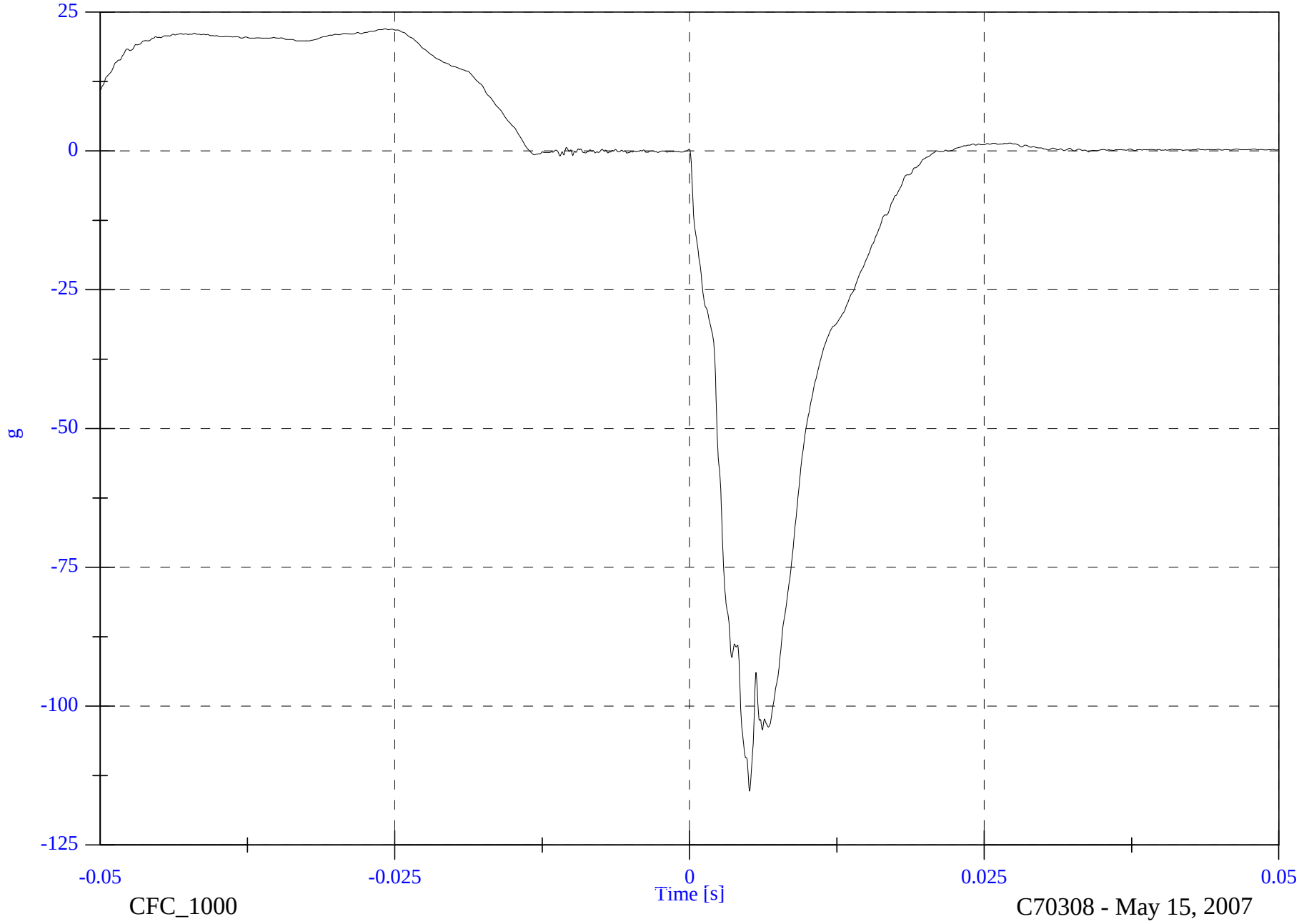
Min: 0.0 [g] at -0.099 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 22.0 [g] at -0.026 [s]
Min: -115.3 [g] at 0.005 [s]



C70308 OP1 IMPACT PLOT #1

8826-FMH-03

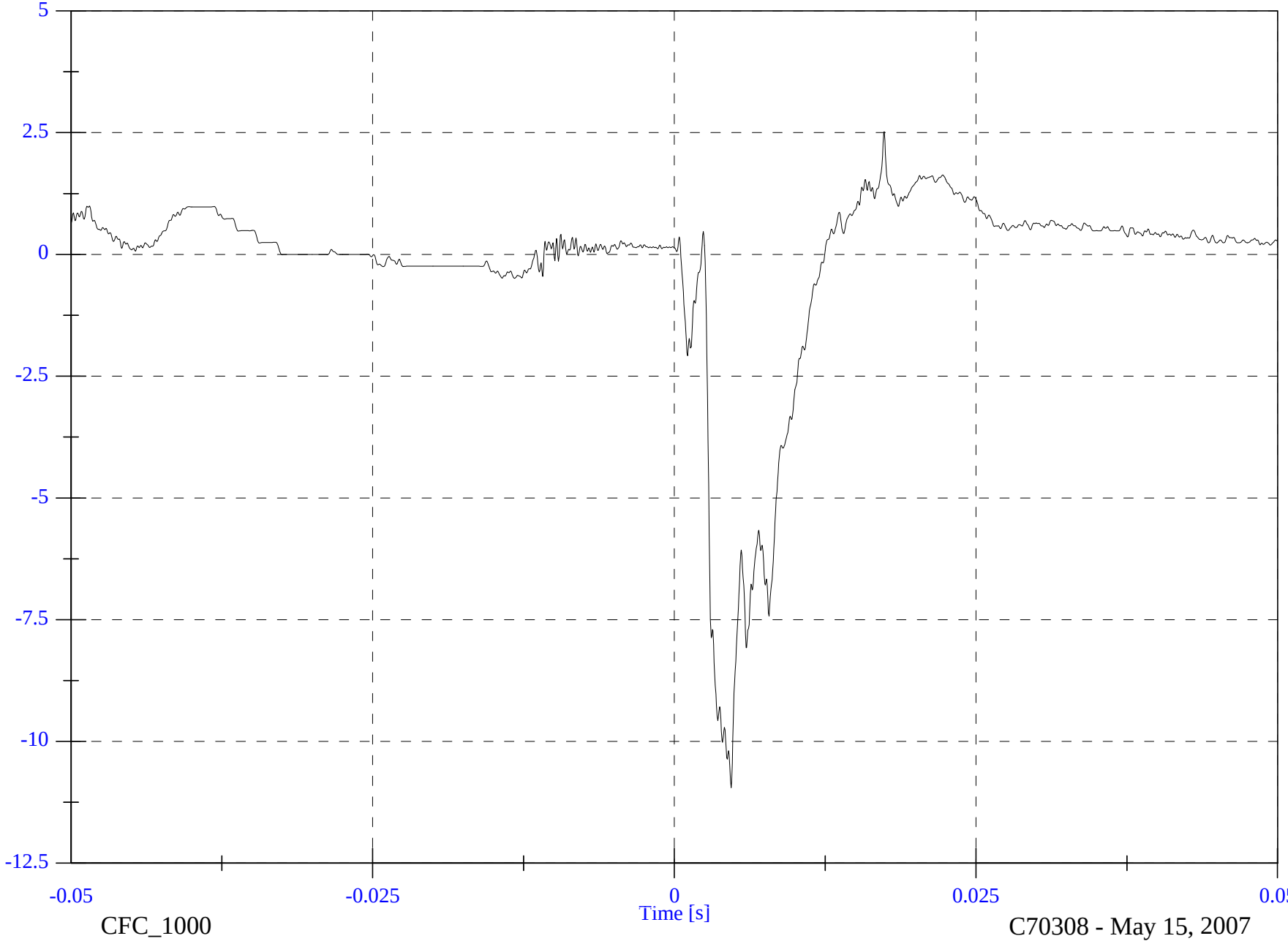
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 2.5 [g] at 0.017 [s]
Min: -11.0 [g] at 0.005 [s]



C70308 OP1 IMPACT PLOT #2

8826-FMH-03

CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 31.1 [g] at 0.008 [s]
Min: -4.4 [g] at 0.016 [s]

C70308 OP1 IMPACT PLOT #3

8826-FMH-03

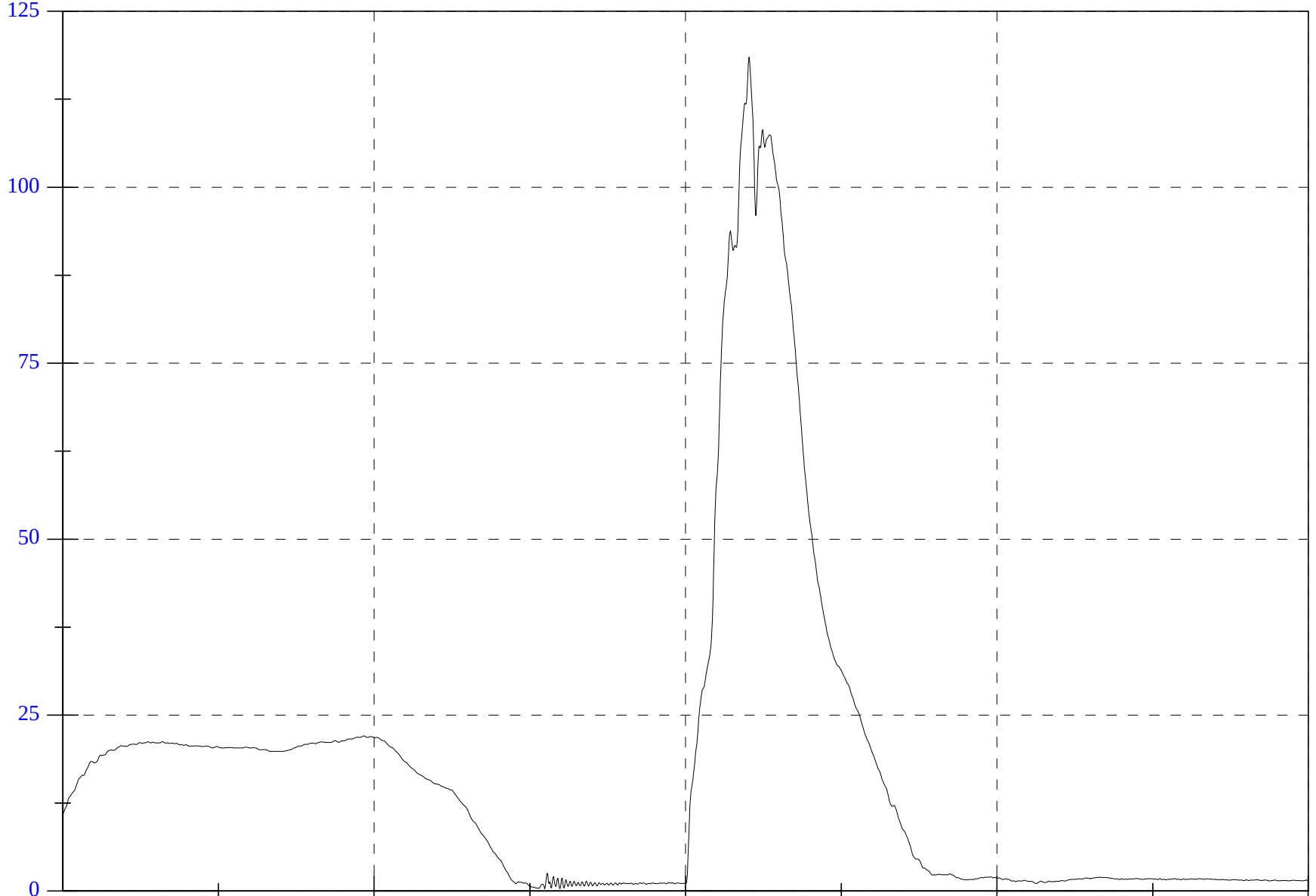
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 118.5 [g] at 0.005 [s]
Min: 0.3 [g] at -0.011 [s]



C70308 OP1 IMPACT PLOT #4

8826-FMH-03

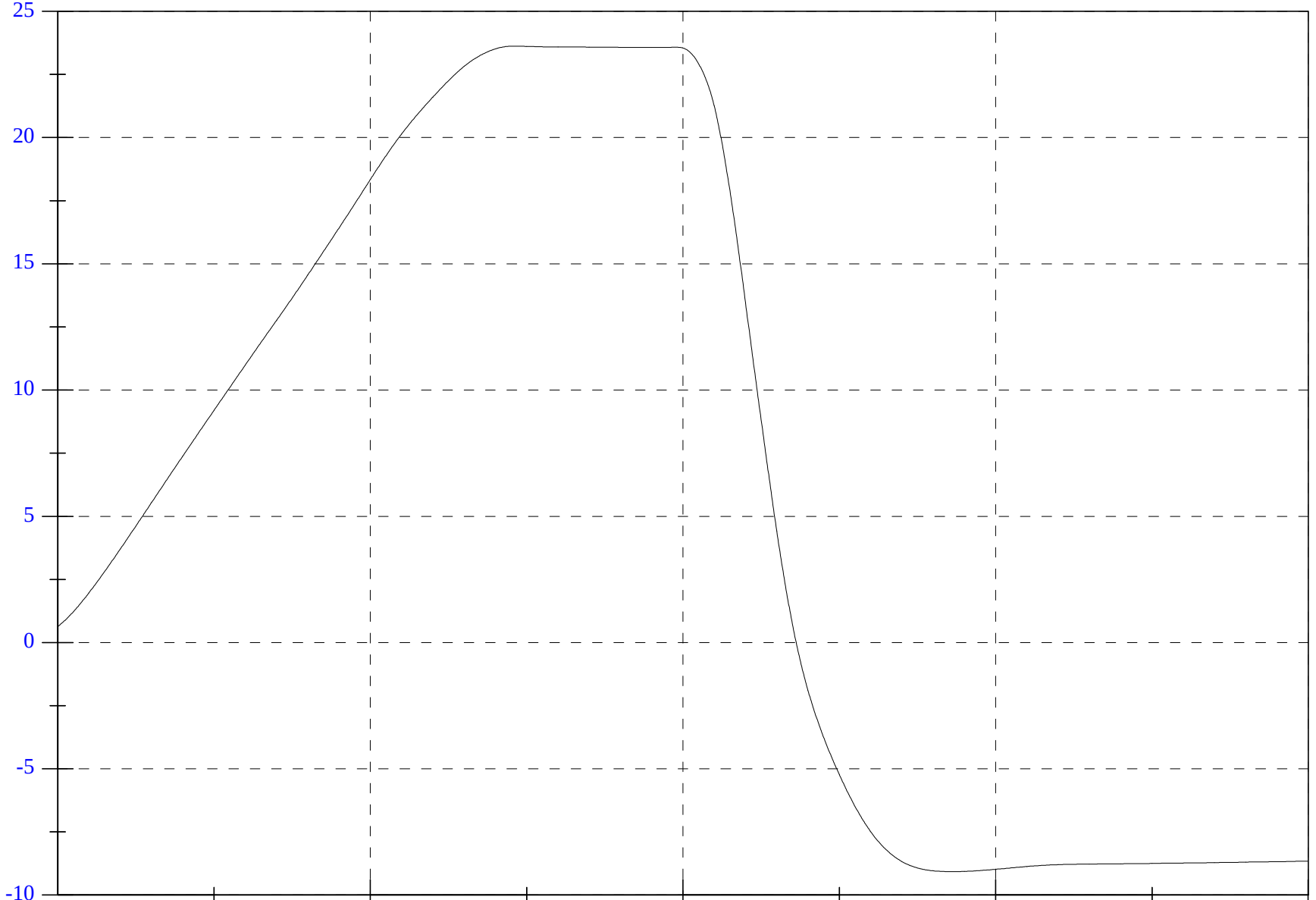
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 23.6 [KPH] at -0.013 [s]
Min: -9.1 [KPH] at 0.022 [s]



C70308 OP1 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT OP1

POST-IMPACT OP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	02
Test Date:	05/15/07
Target Location:	REAR PILLAR
Target Code:	RP1
Horizontal Impact Angle:	56°
Vertical Impact Angle:	33°
Ambient Temperature:	21.7 C°
Relative Humidity:	38.1
Time of Impact:	10:45
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	0	☐ mm right	☐ mm left
On Centerline	61	mm up	

POST-IMPACT RP1 HEADFORM

Free Motion HIC	917.9
HIC(d)	858.9
Impact Velocity (kph)	23.33
HIC T1 (msec)	6.5
HIC T2 (msec)	11.7

FMVSS 201U 2007 Jeep Compass C70308 - RP1

FMH Headform 0355

Location: RP1

Test Date: May 15, 2007

Work File: RP1

----------**TEST RESULTS**----------

Lab Temperature: 21.7 C

Lab Humidity: 38.1 %

Velocity at Impact: 23.33 KPH

Free Flight Distance: 228.01 mm

Maximum: 154.8 g

HICd: 858.9

HIC (36ms): 917.9

t1: 6.5 msec

t2: 11.7 msec

Duration: 5.2 msec

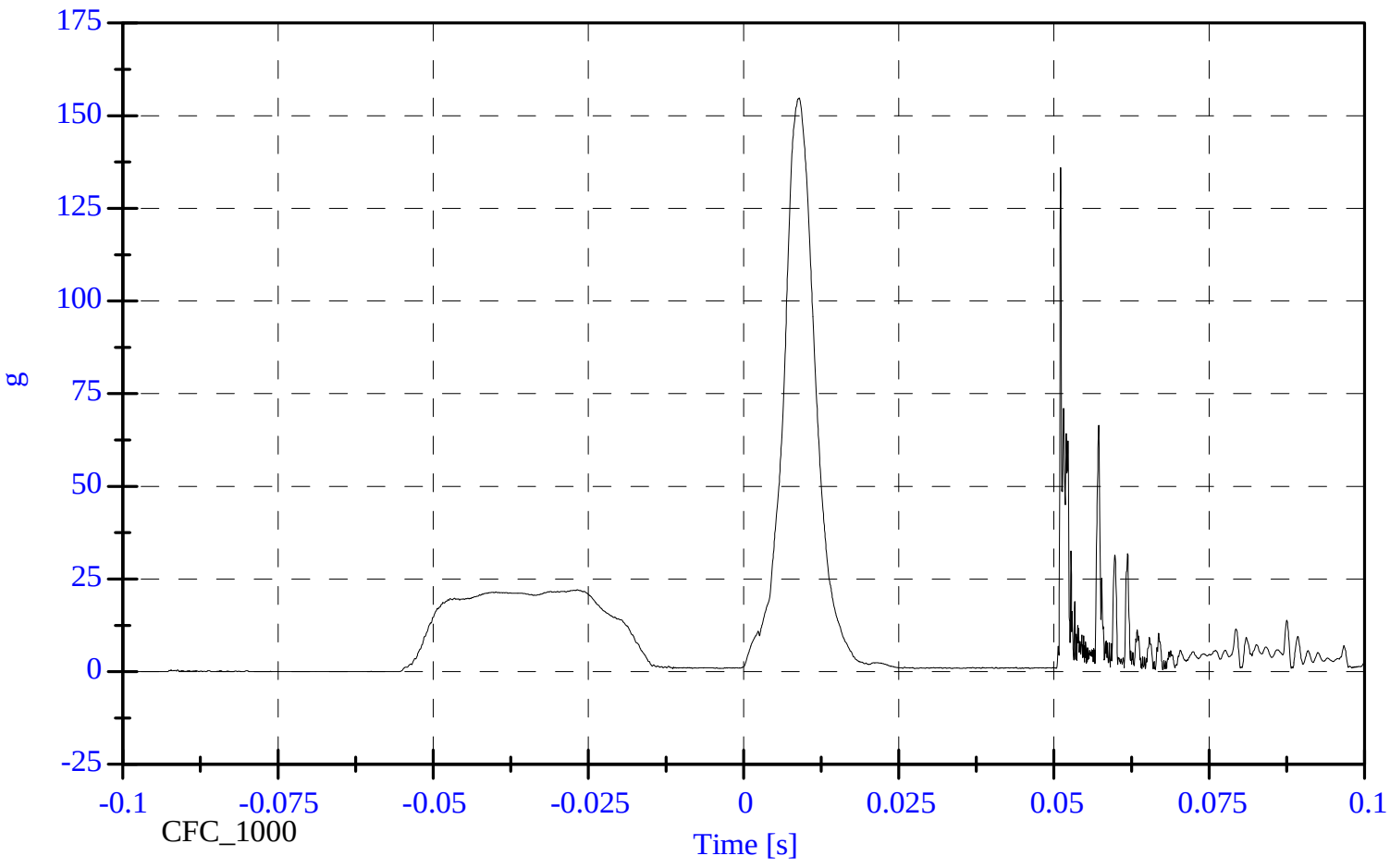
Average Acceleration: 10.4 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 154.8 [g] at 0.009 [s]

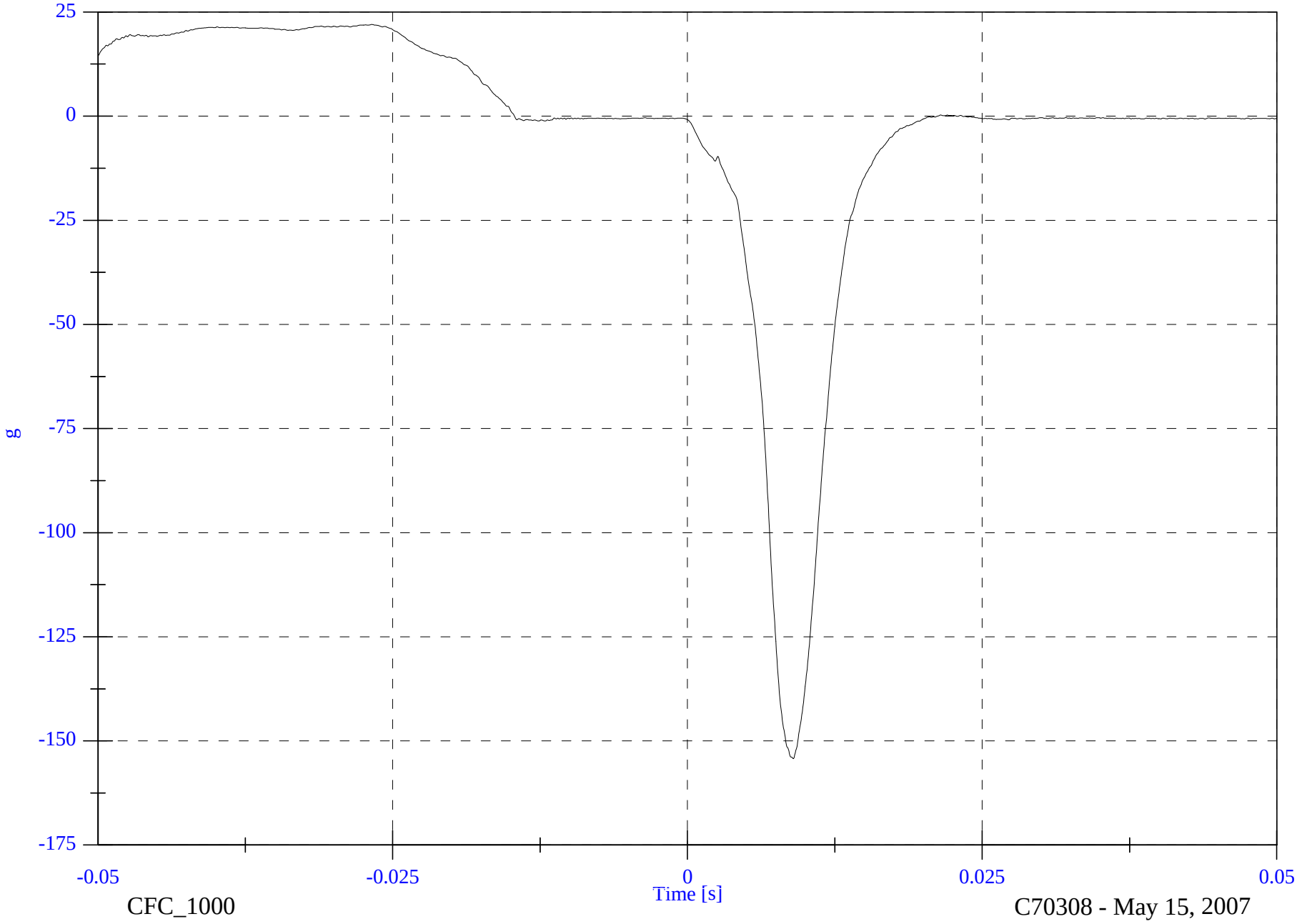
Min: -0.0 [g] at -0.099 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 22.0 [g] at -0.027 [s]
Min: -154.2 [g] at 0.009 [s]



C70308 RP1 IMPACT PLOT #1

8826-FMH-03

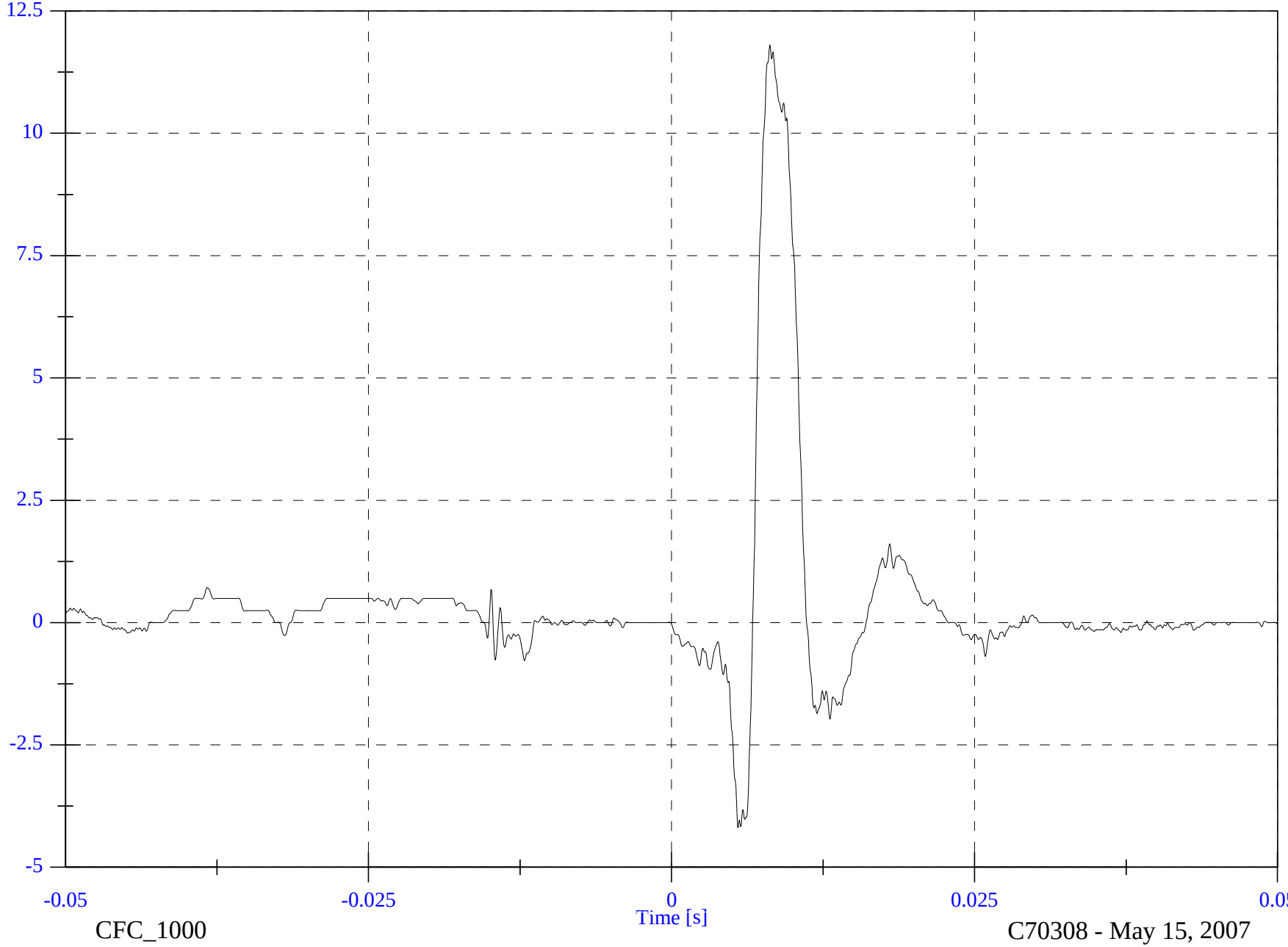
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 11.8 [g] at 0.008 [s]
Min: -4.2 [g] at 0.005 [s]



C70308 RP1 IMPACT PLOT #2

8826-FMH-03

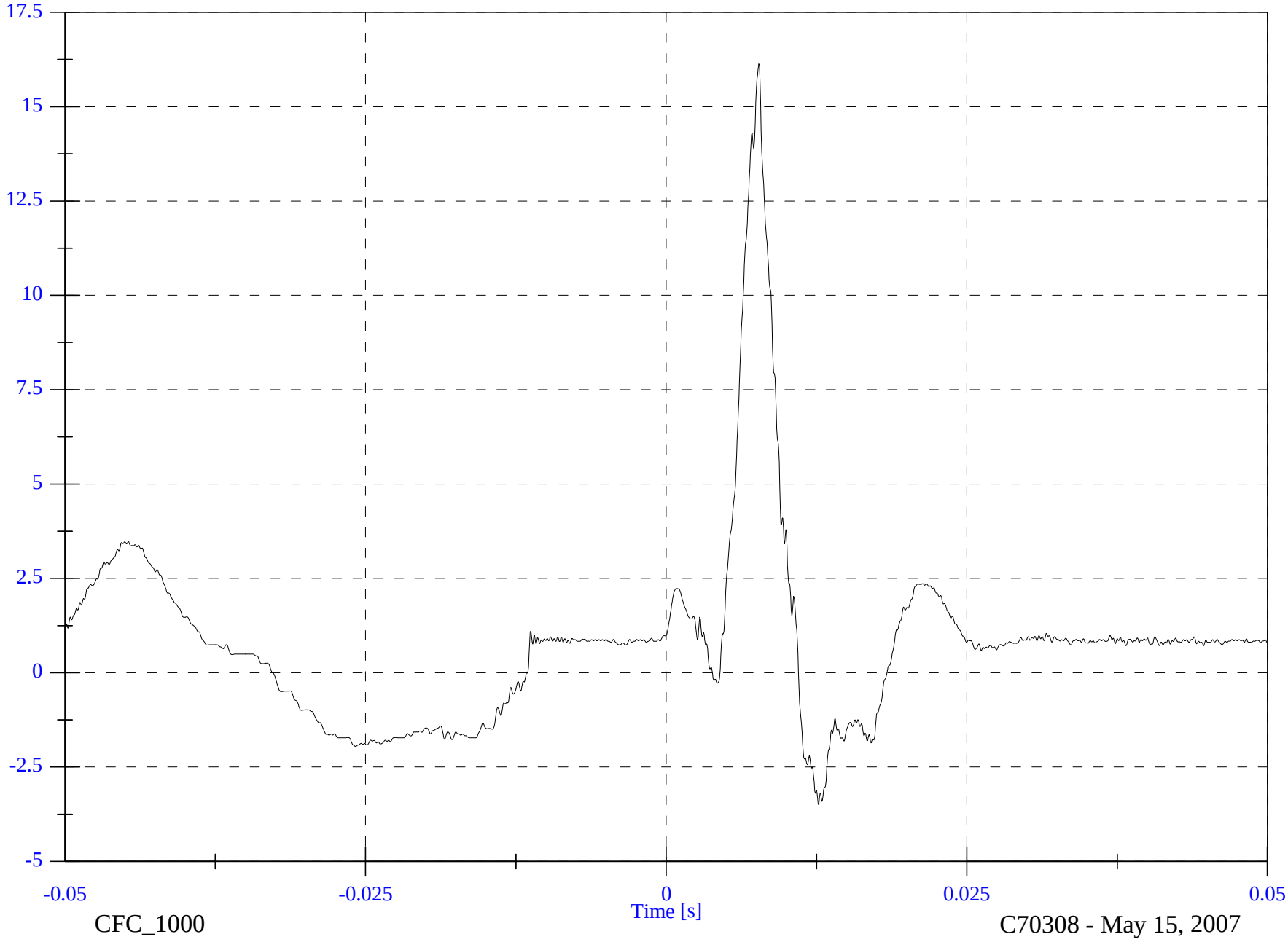
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 16.1 [g] at 0.008 [s]
Min: -3.5 [g] at 0.013 [s]



C70308 RP1 IMPACT PLOT #3

8826-FMH-03

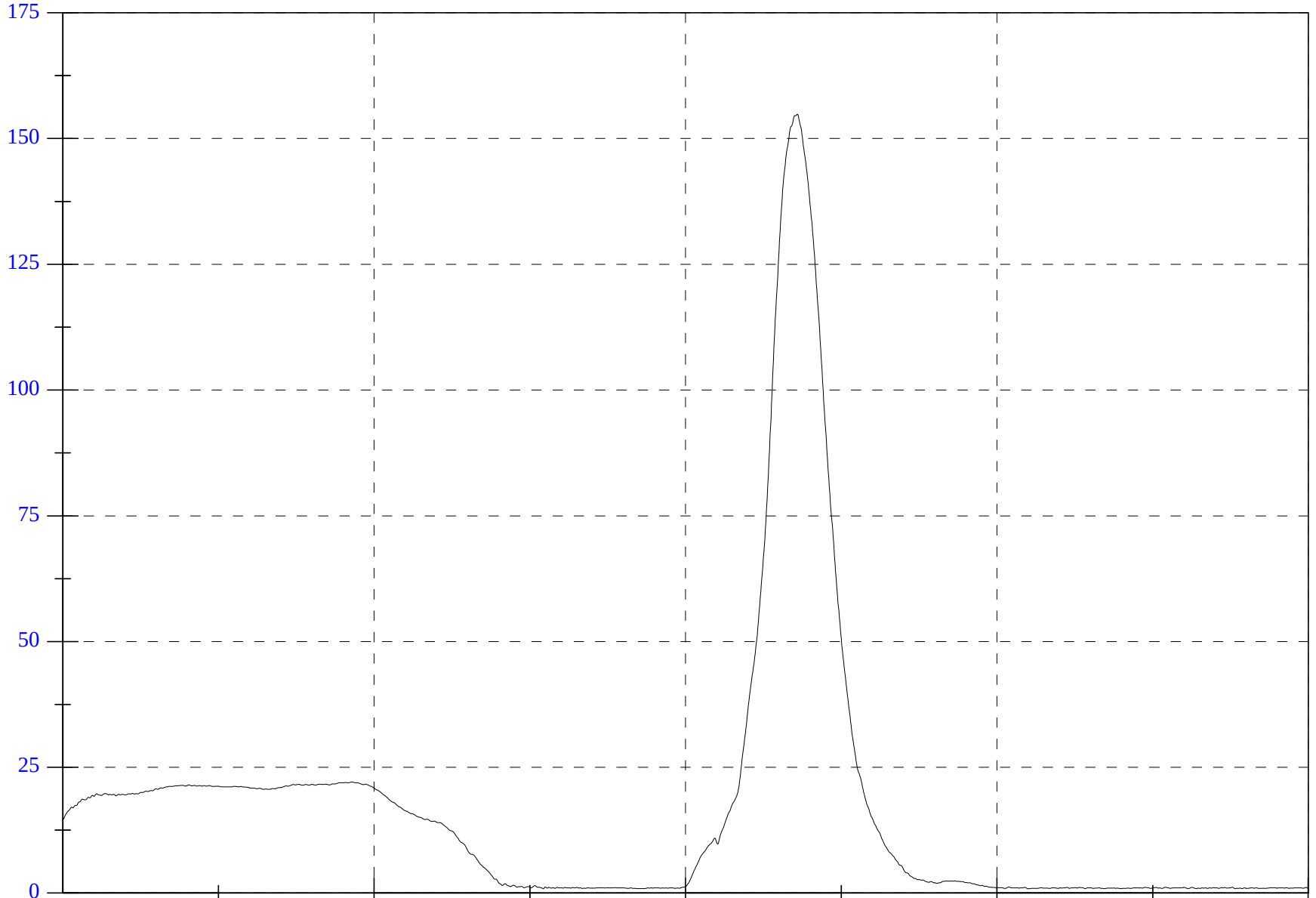
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 154.8 [g] at 0.009 [s]
Min: 0.8 [g] at 0.027 [s]



C70308 RP1 IMPACT PLOT #4

8826-FMH-03

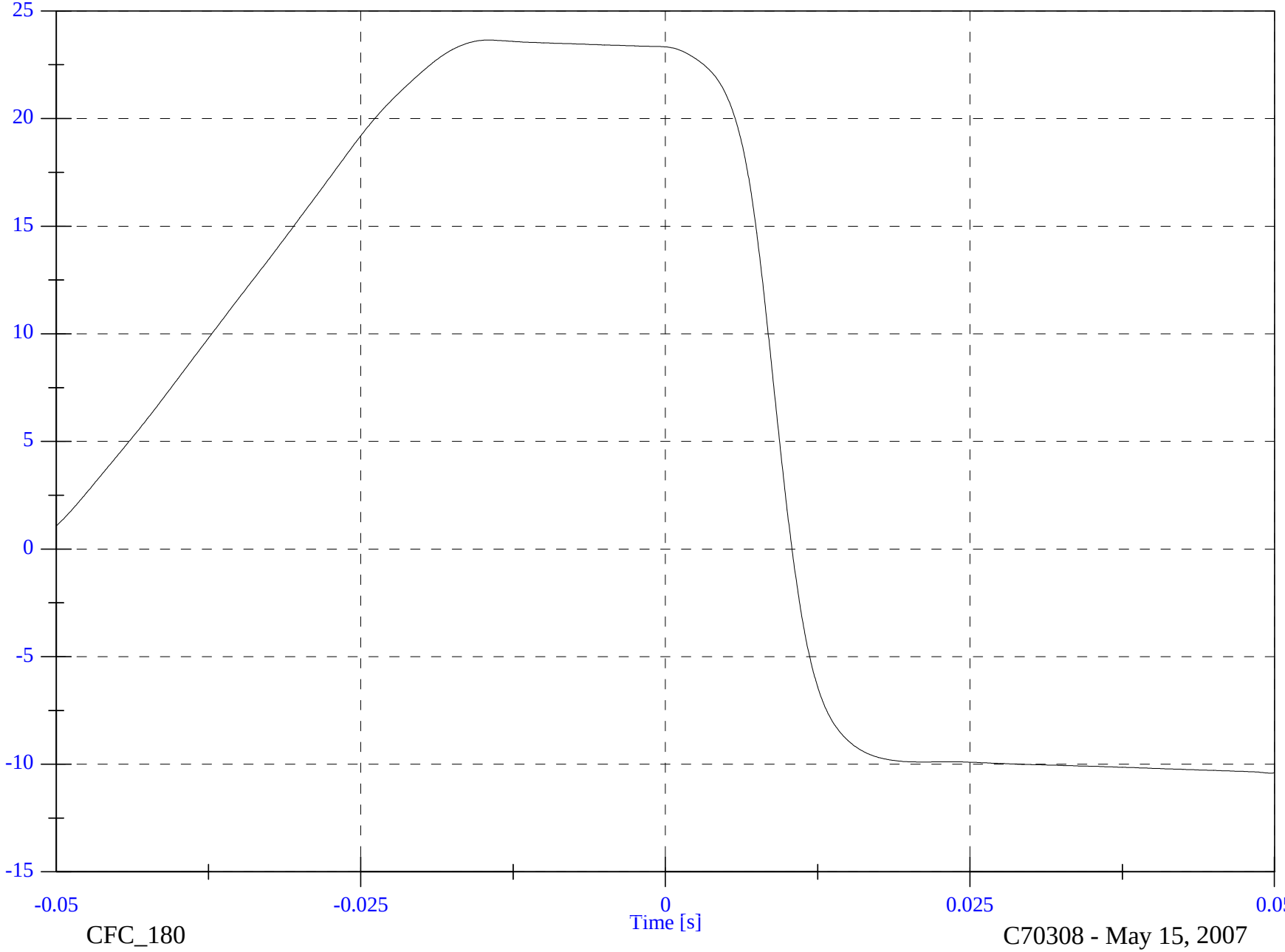
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 23.6 [KPH] at -0.015 [s]
Min: -10.4 [KPH] at 0.050 [s]



C70308 RP1 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT RP1

POST-IMPACT RP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	03
Test Date:	05/15/07
Target Location:	B-PILLAR
Target Code:	BP4
Horizontal Impact Angle:	136°
Vertical Impact Angle:	-10°
Ambient Temperature:	21.6 C°
Relative Humidity:	38.9
Time of Impact:	11:25
Headform Number:	642

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	5		mm right	x	mm left
On Centerline	4	mm up			

POST-IMPACT BP4 HEADFORM

Free Motion HIC	673.6
HIC(d)	674.6
Impact Velocity (kph)	23.45
HIC T1 (msec)	2.0
HIC T2 (msec)	9.9

FMVSS 201U 2007 Jeep Compass C70308 - BP4

FMH Headform 0642

Location: BP4

Test Date: May 15, 2007

Work File: BP4

----------TEST RESULTS----------

Lab Temperature: 21.6 C

Lab Humidity: 38.9 %

Velocity at Impact: 23.45 KPH

Free Flight Distance: 220.05 mm

Maximum: 121.6 g

HICd: 674.6

HIC (36ms): 673.6

t1: 2.0 msec

t2: 9.9 msec

Duration: 7.9 msec

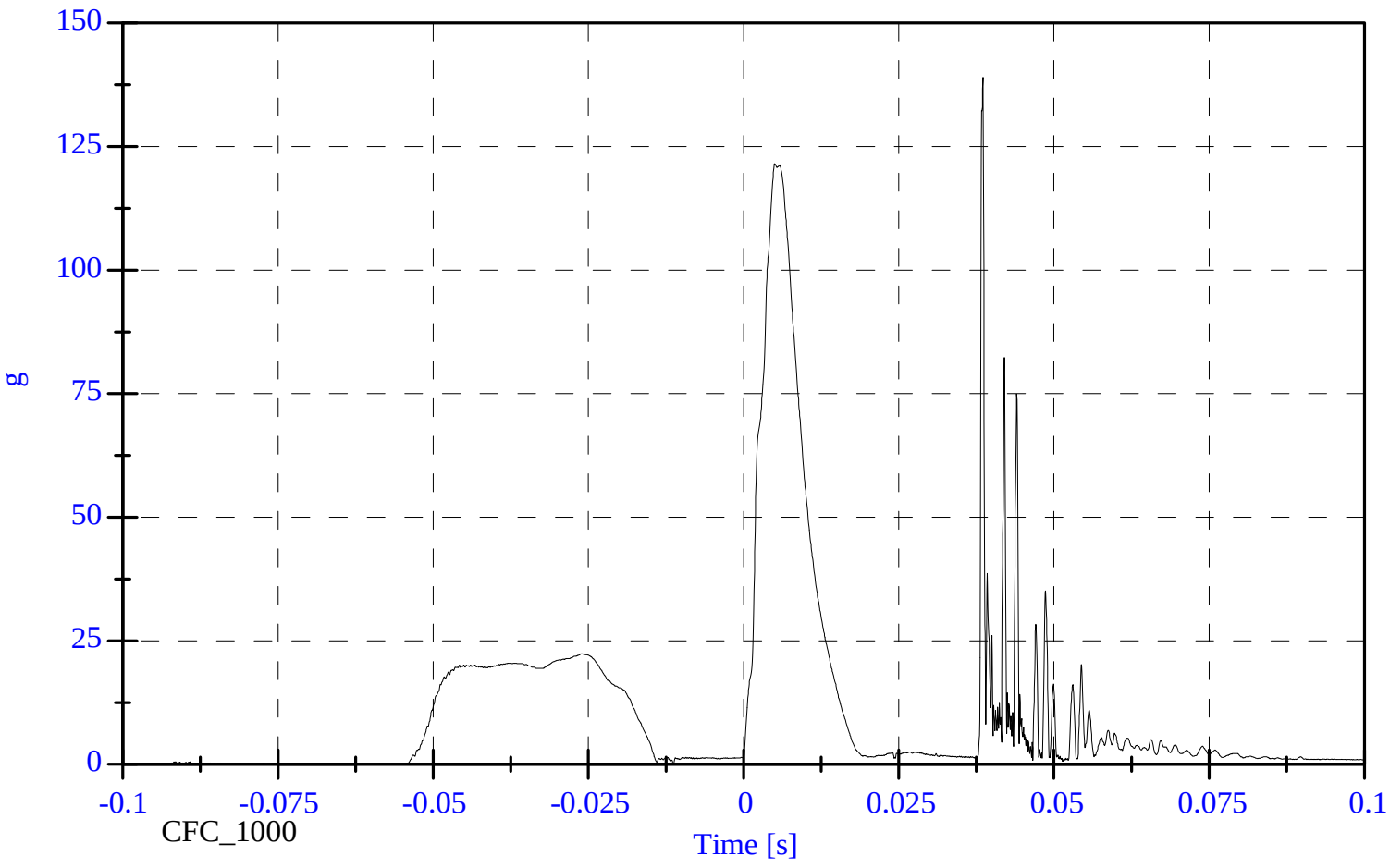
Average Acceleration: 10.5 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 121.6 [g] at 0.005 [s]

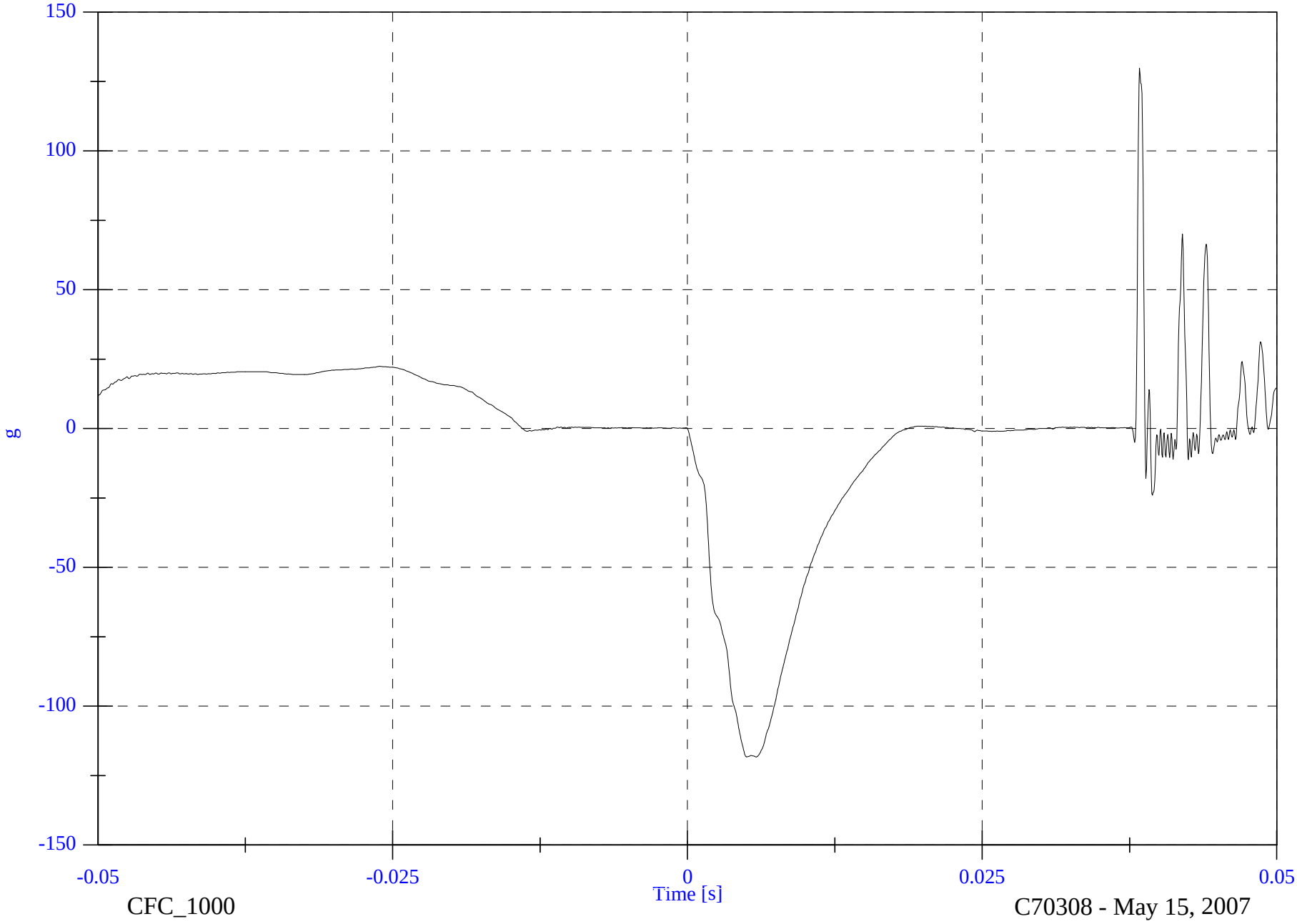
Min: 0.0 [g] at -0.061 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 129.8 [g] at 0.038 [s]
Min: -118.3 [g] at 0.006 [s]



C70308 BP4 IMPACT PLOT #1

8826-FMH-03

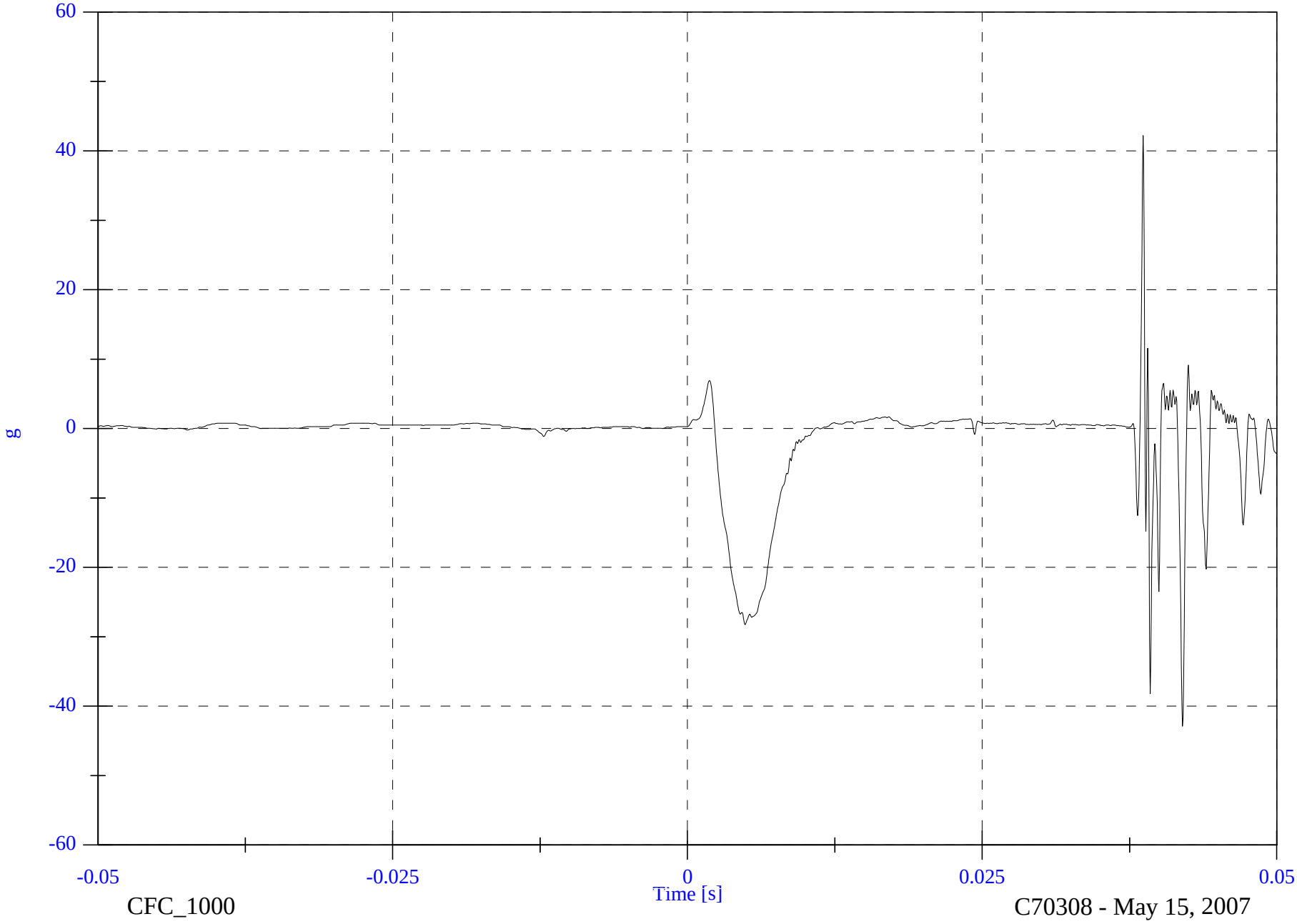
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 42.2 [g] at 0.039 [s]
Min: -42.9 [g] at 0.042 [s]



C70308 BP4 IMPACT PLOT #2

8826-FMH-03

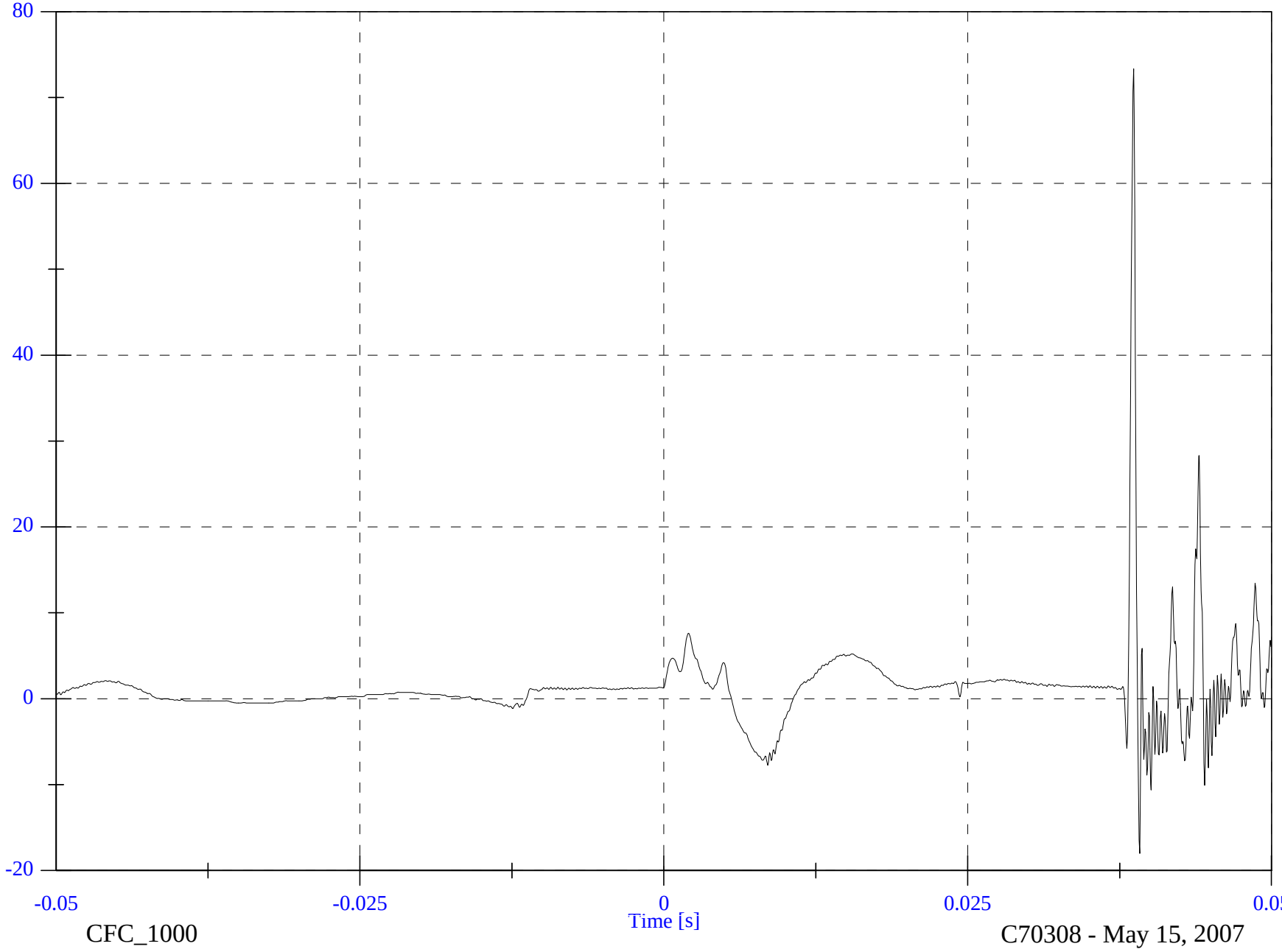
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 73.4 [g] at 0.039 [s]
Min: -18.0 [g] at 0.039 [s]



C70308 BP4 IMPACT PLOT #3

8826-FMH-03

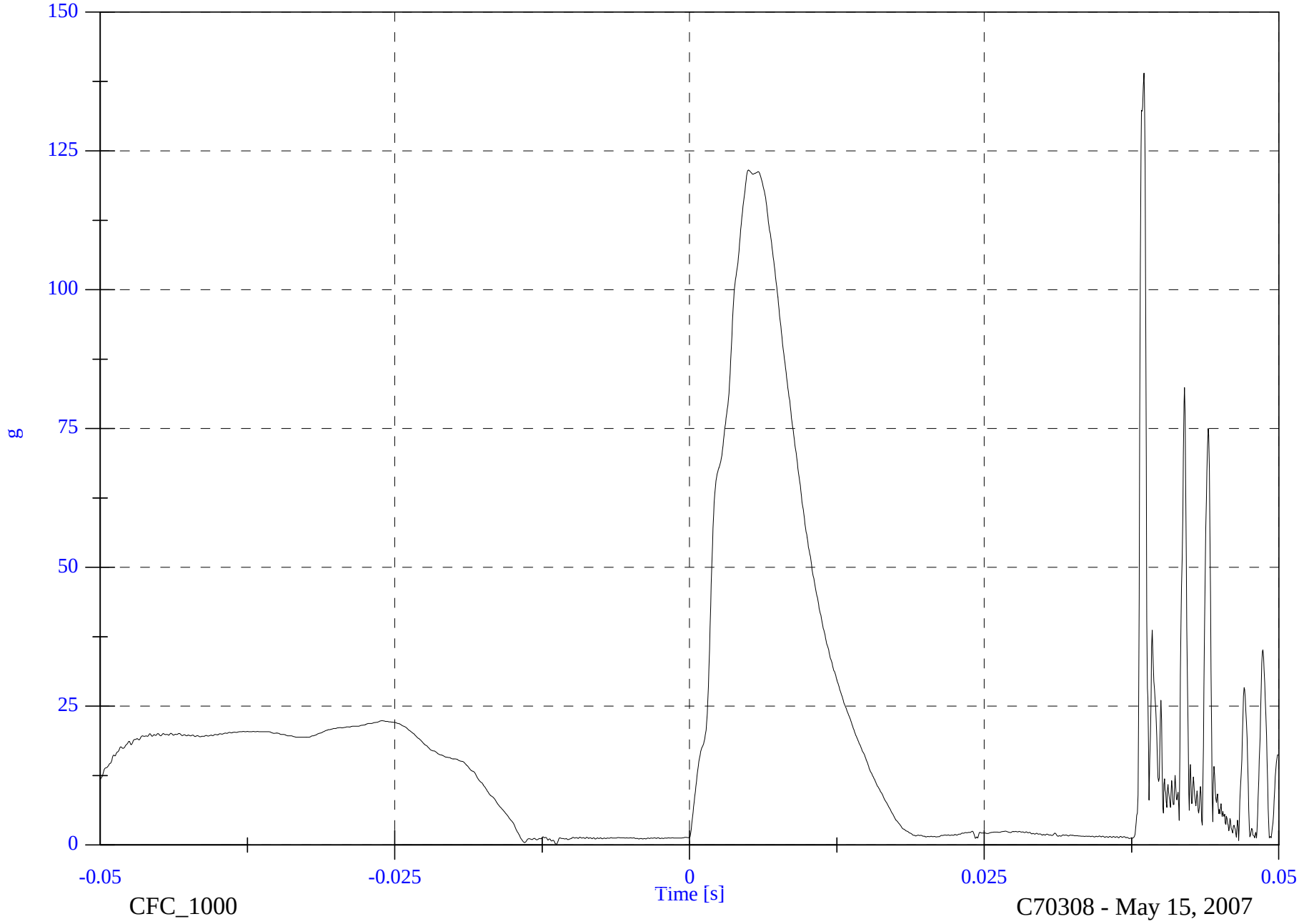
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 139.0 [g] at 0.039 [s]
Min: 0.1 [g] at -0.011 [s]



C70308 BP4 IMPACT PLOT #4

8826-FMH-03

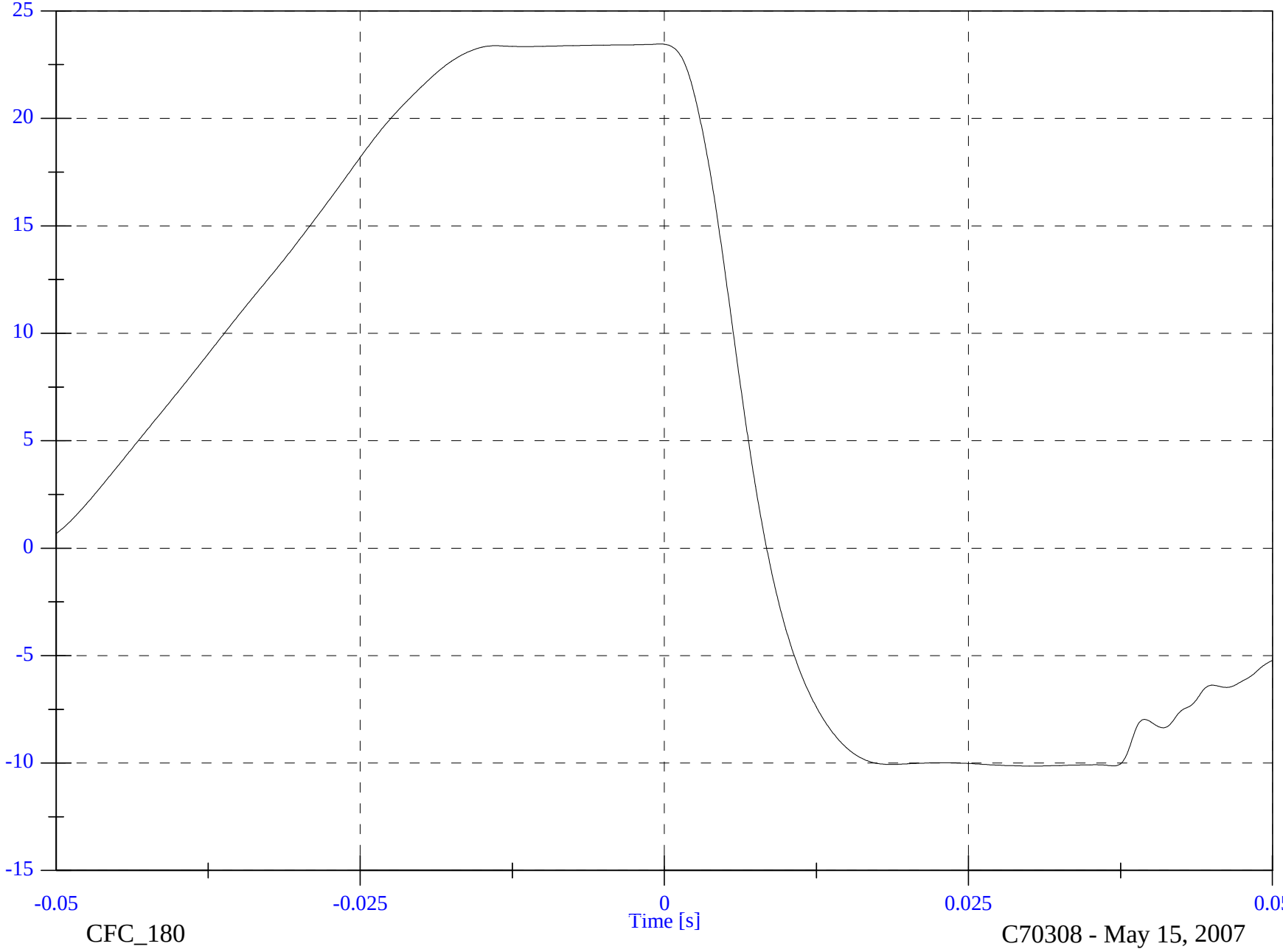
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 23.5 [KPH] at -0.000 [s]
Min: -10.1 [KPH] at 0.030 [s]



C70308 BP4 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT BP4

POST-IMPACT BP4

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	04
Test Date:	05/15/07
Target Location:	B-PILLAR
Target Code:	BP1
Horizontal Impact Angle:	90°
Vertical Impact Angle:	23°
Ambient Temperature:	22.0 C°
Relative Humidity:	38.9
Time of Impact:	13:20
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	6		mm right	x	mm left
On Centerline	20	mm up			

POST-IMPACT BP1 HEADFORM

Free Motion HIC	310.3
HIC(d)	400.5
Impact Velocity (kph)	18.59
HIC T1 (msec)	4.6
HIC T2 (msec)	15.0

FMVSS 201U 2007 Jeep Compass C70308 - BP1

FMH Headform 0805

Location: BP1

Test Date: May 15, 2007

Work File: BP1

----------**TEST RESULTS**----------

Lab Temperature: 22.0 C

Lab Humidity: 38.9 %

Velocity at Impact: 18.59 KPH

Free Flight Distance: 215.74 mm

Maximum: 85.9 g

HICd: 400.5

HIC (36ms): 310.3

t1: 4.6 msec

t2: 15.0 msec

Duration: 10.3 msec

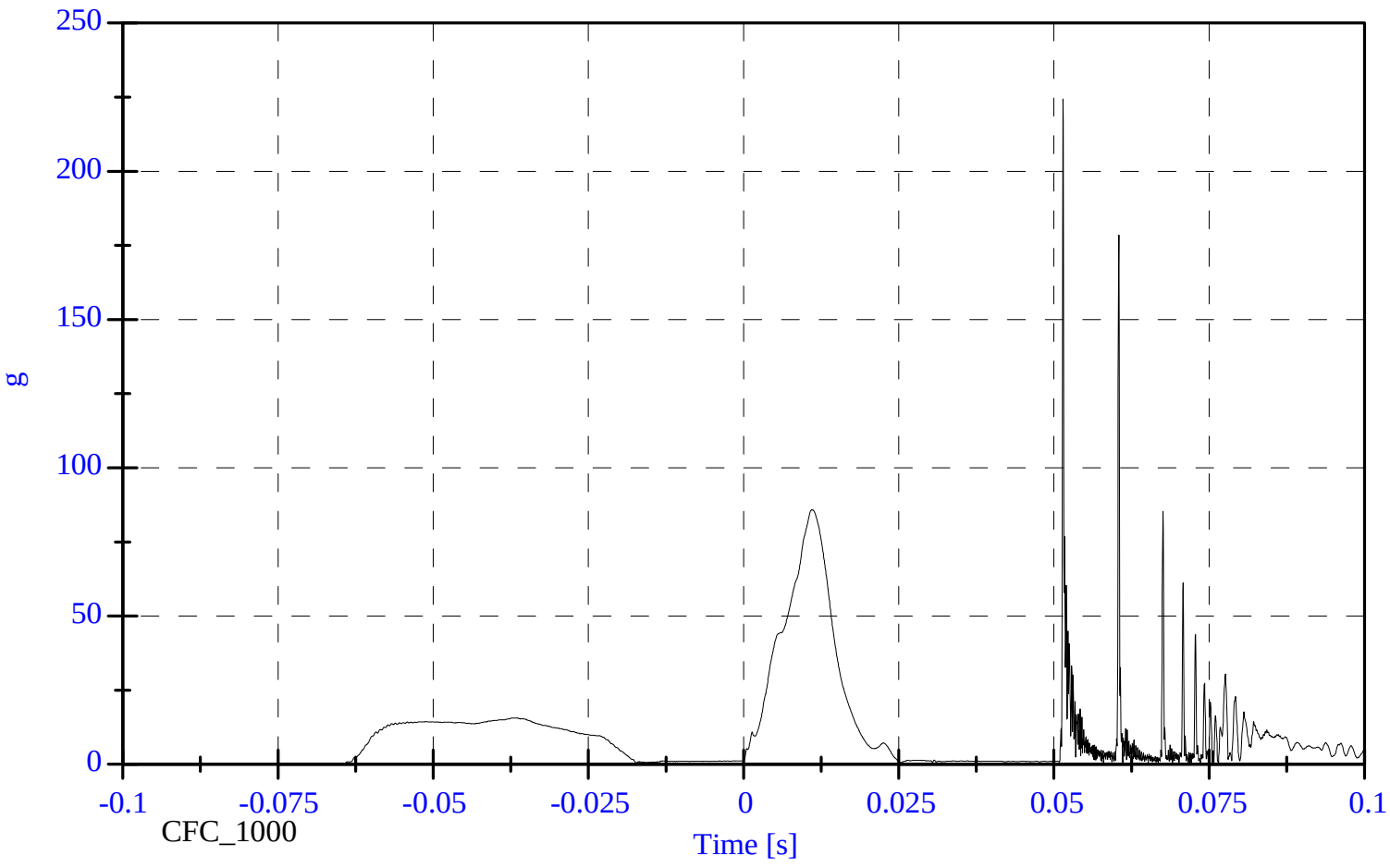
Average Acceleration: 9.5 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 85.9 [g] at 0.011 [s]

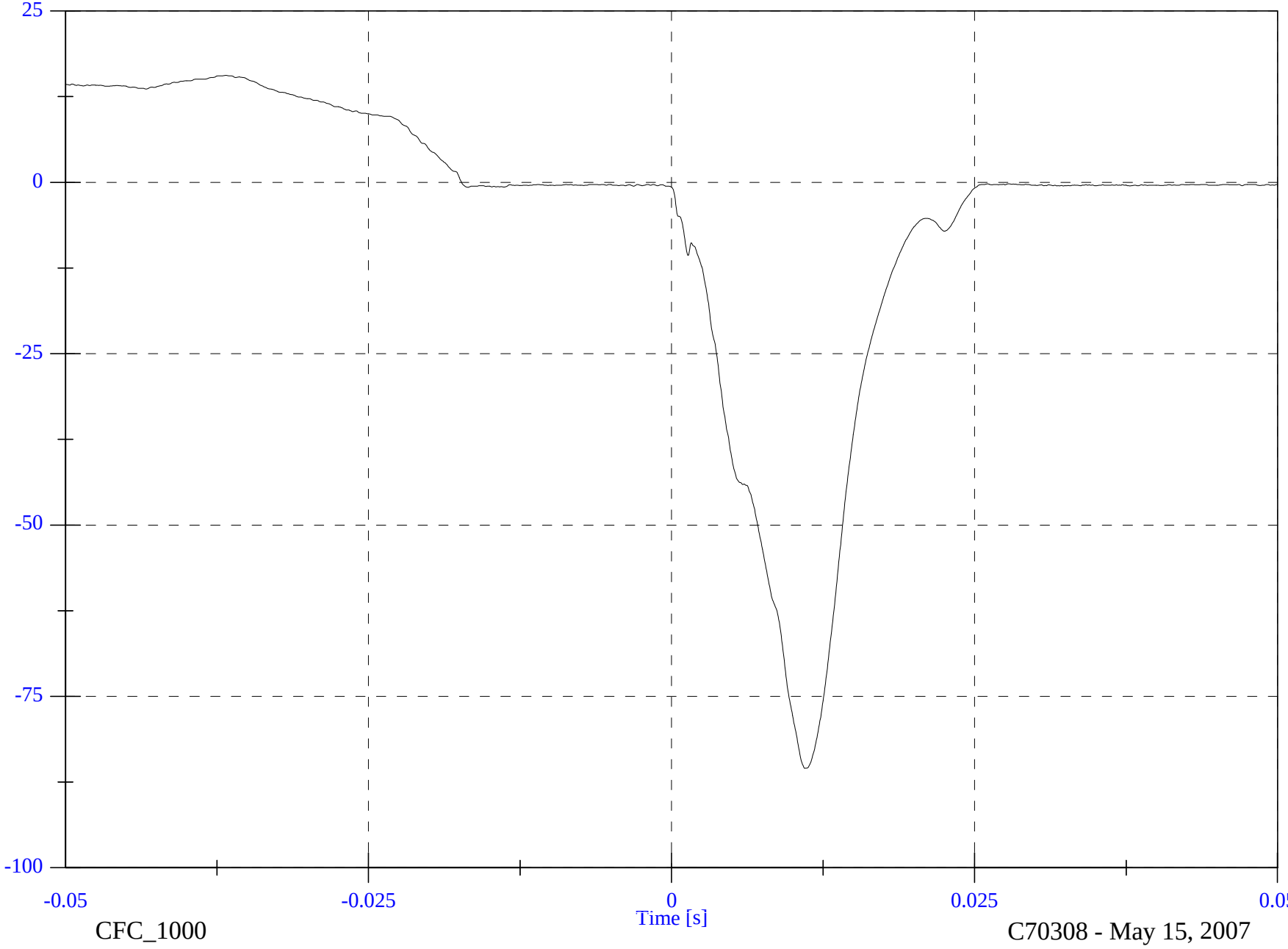
Min: 0.0 [g] at -0.096 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 15.6 [g] at -0.037 [s]
Min: -85.5 [g] at 0.011 [s]



C70308 BP1 IMPACT PLOT #1

8826-FMH-03

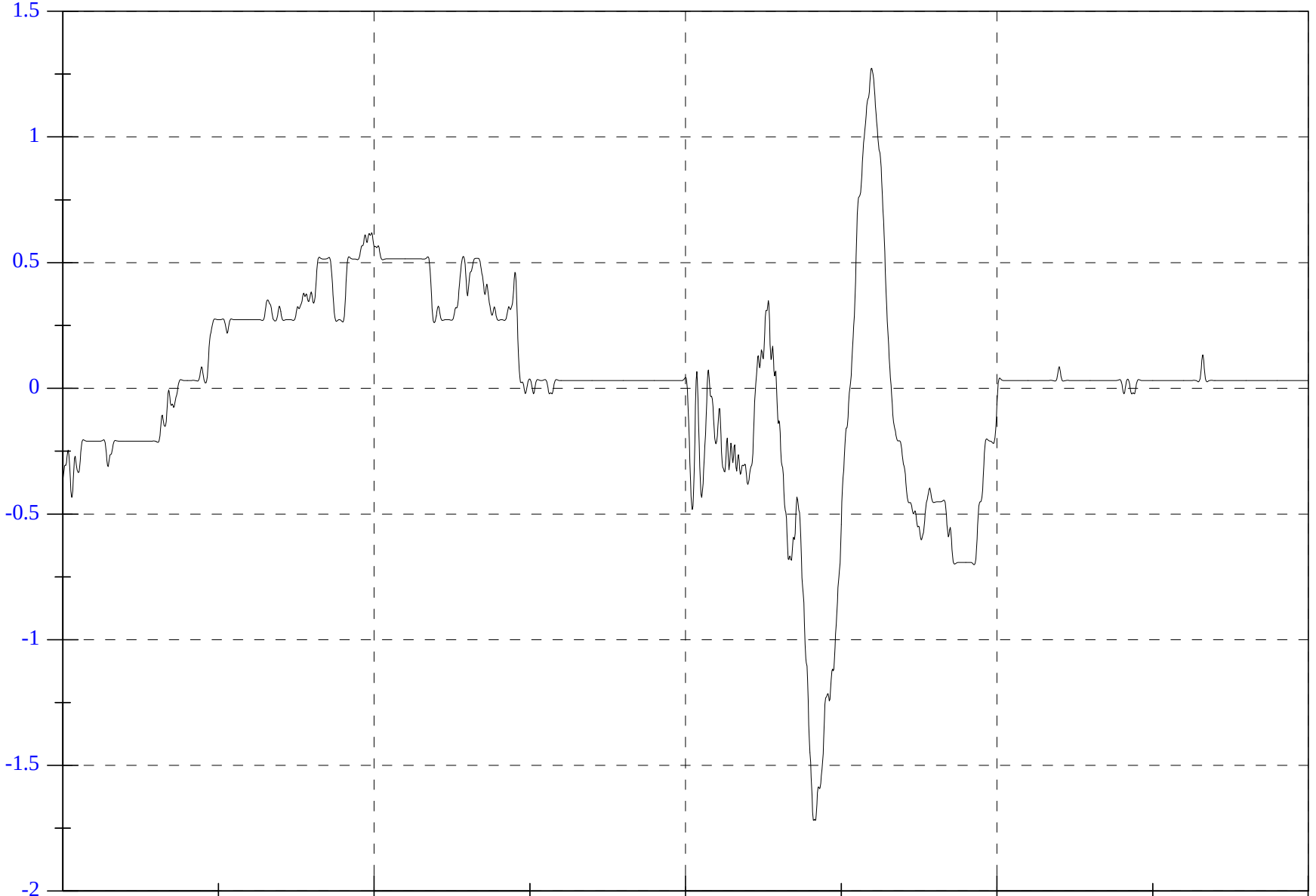
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 1.3 [g] at 0.015 [s]
Min: -1.7 [g] at 0.010 [s]



C70308 BP1 IMPACT PLOT #2

8826-FMH-03

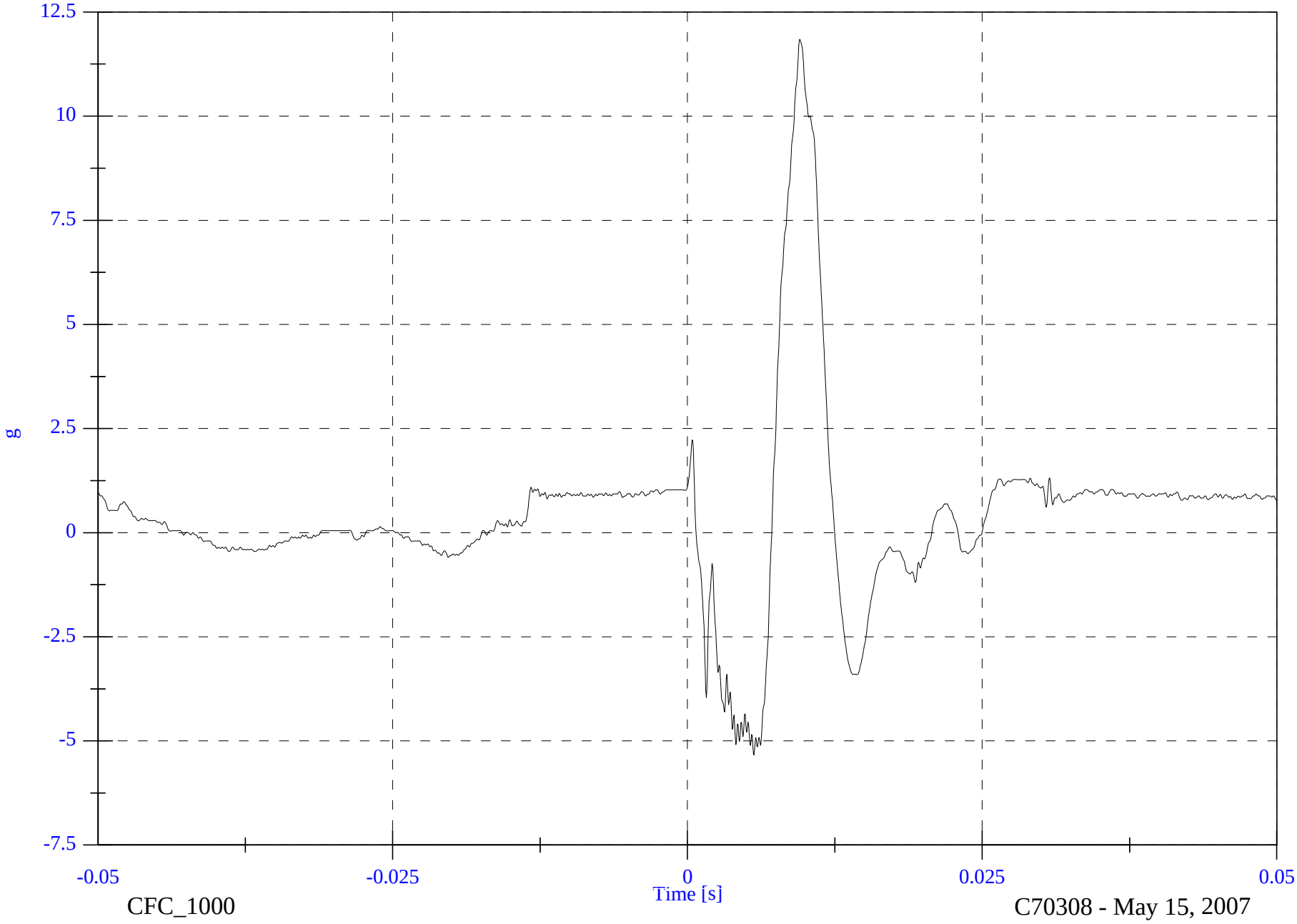
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 11.8 [g] at 0.010 [s]
Min: -5.3 [g] at 0.006 [s]



C70308 BP1 IMPACT PLOT #3

8826-FMH-03

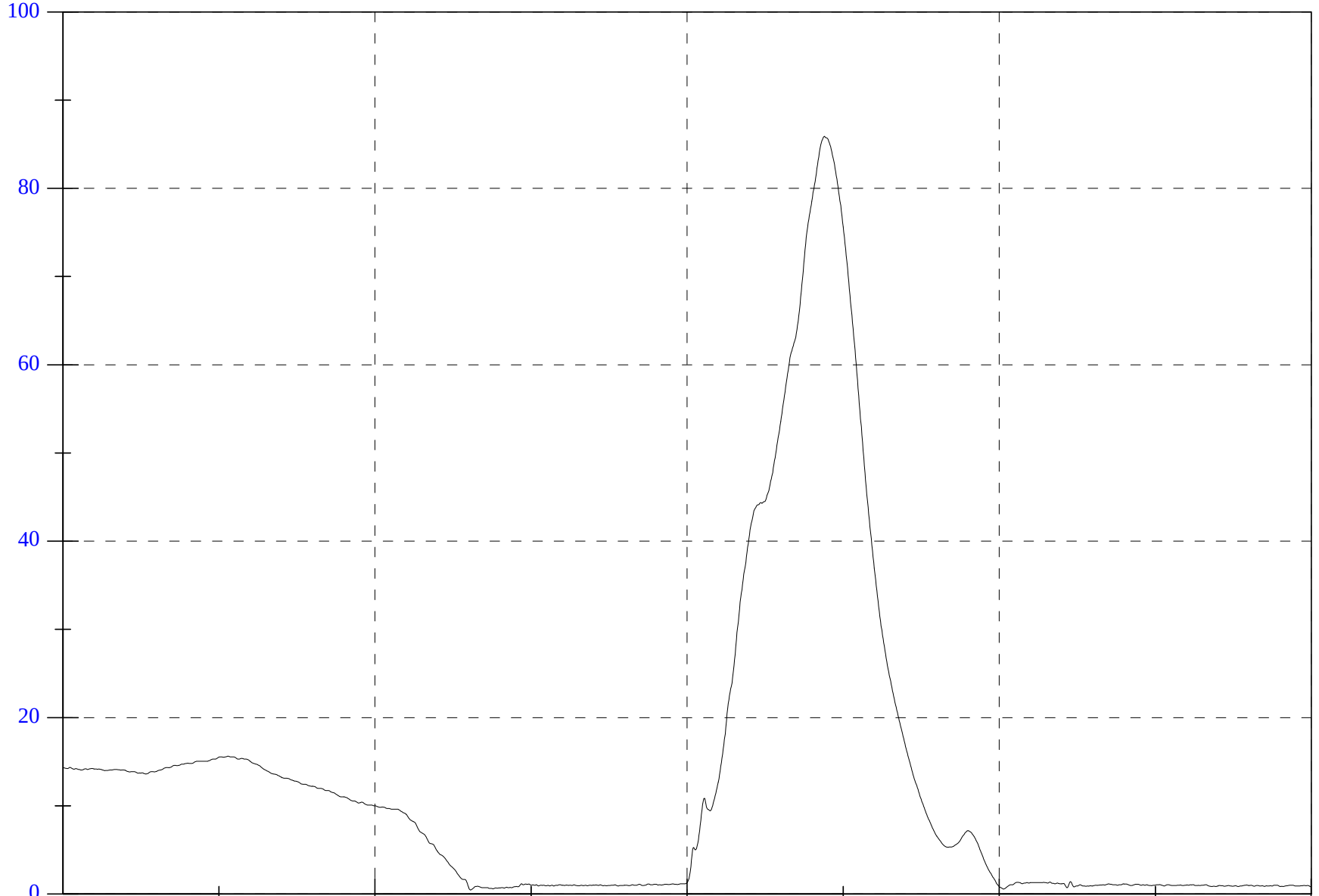
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 85.9 [g] at 0.011 [s]
Min: 0.5 [g] at -0.017 [s]



C70308 BP1 IMPACT PLOT #4

8826-FMH-03

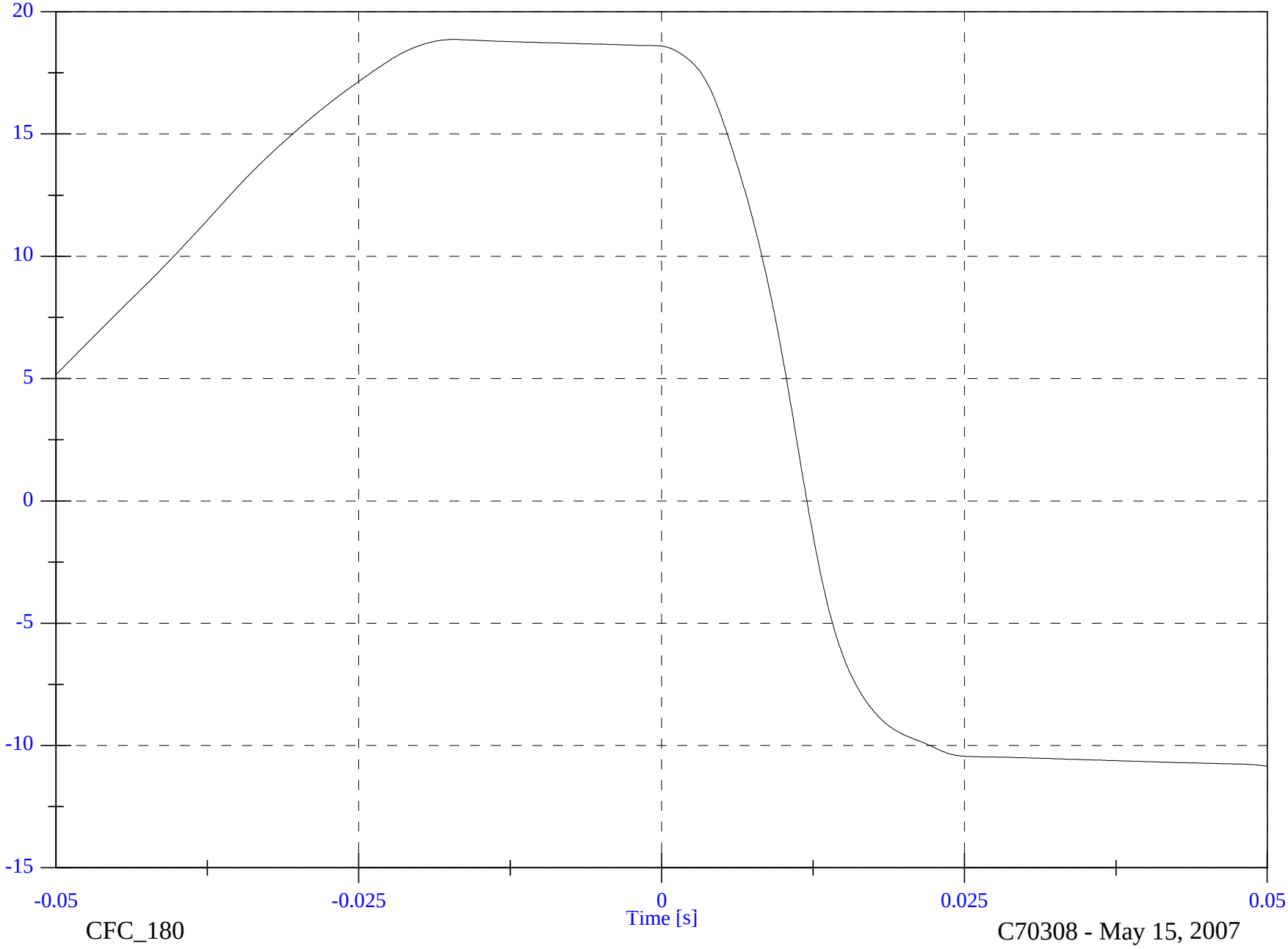
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 18.9 [KPH] at -0.017 [s]
Min: -10.8 [KPH] at 0.050 [s]



C70308 BP1 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT BP1

POST-IMPACT BP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	05
Test Date:	05/15/07
Target Location:	SIDE RAIL
Target Code:	SR2A
Horizontal Impact Angle:	90°
Vertical Impact Angle:	43°
Ambient Temperature:	21.9 C°
Relative Humidity:	39.2
Time of Impact:	13:55
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	1		mm right	x	mm left
On Centerline	17	mm up			

POST-IMPACT SR2A HEADFORM

Free Motion HIC	331.4
HIC(d)	416.4
Impact Velocity (kph)	18.70
HIC T1 (msec)	5.8
HIC T2 (msec)	14.4

FMVSS 201U 2007 Jeep Compass C70308 - SR2A

FMH Headform 1255

Location: SR2A

Test Date: May 15, 2007

Work File: SR2A

----------TEST RESULTS----------

Lab Temperature: 21.9 C

Lab Humidity: 39.2 %

Velocity at Impact: 18.70 KPH

Free Flight Distance: 216.85 mm

Maximum: 84.7 g

HICd: 416.4

HIC (36ms): 331.4

t1: 5.8 msec

t2: 14.4 msec

Duration: 8.6 msec

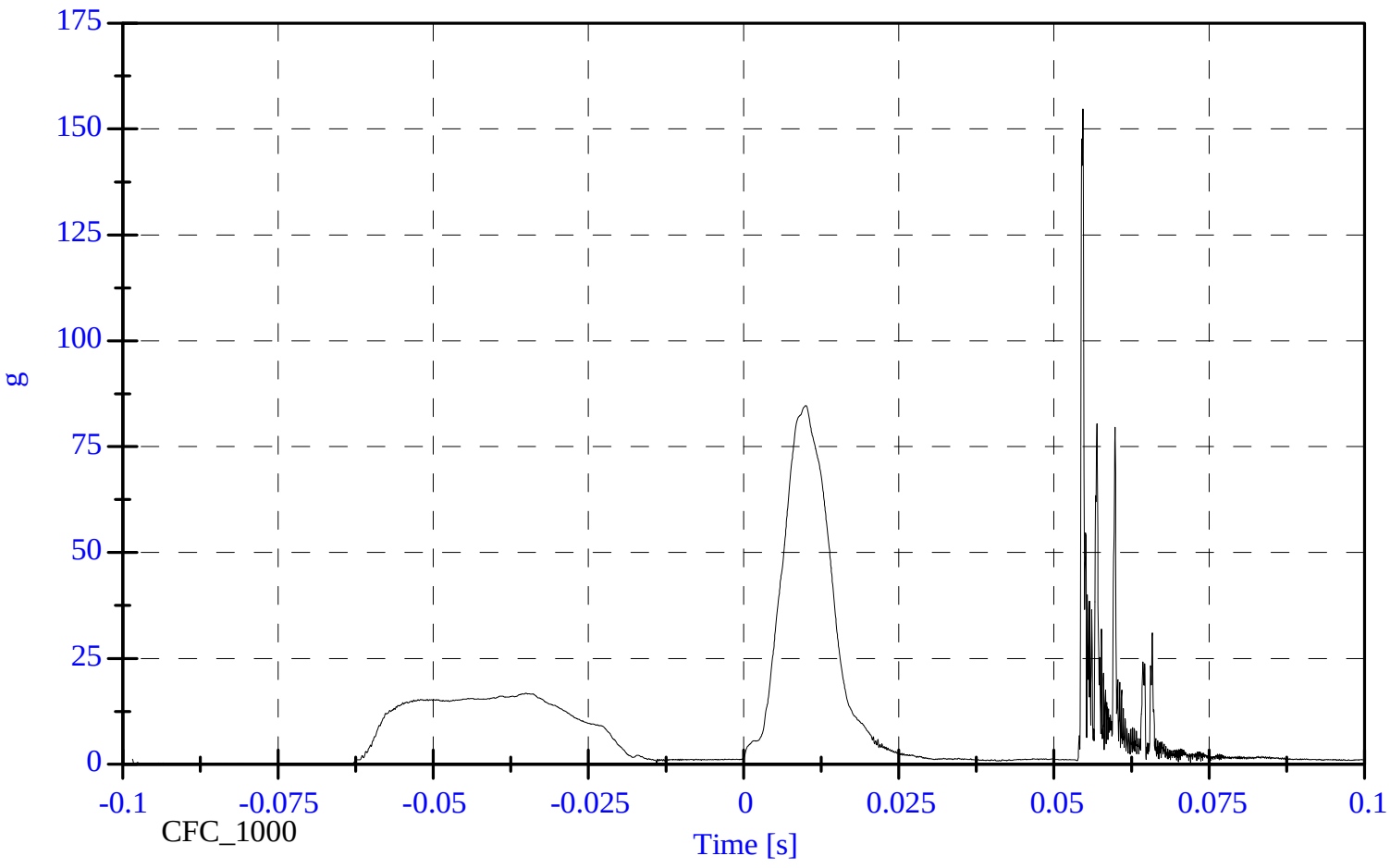
Average Acceleration: 8.7 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 84.7 [g] at 0.010 [s]

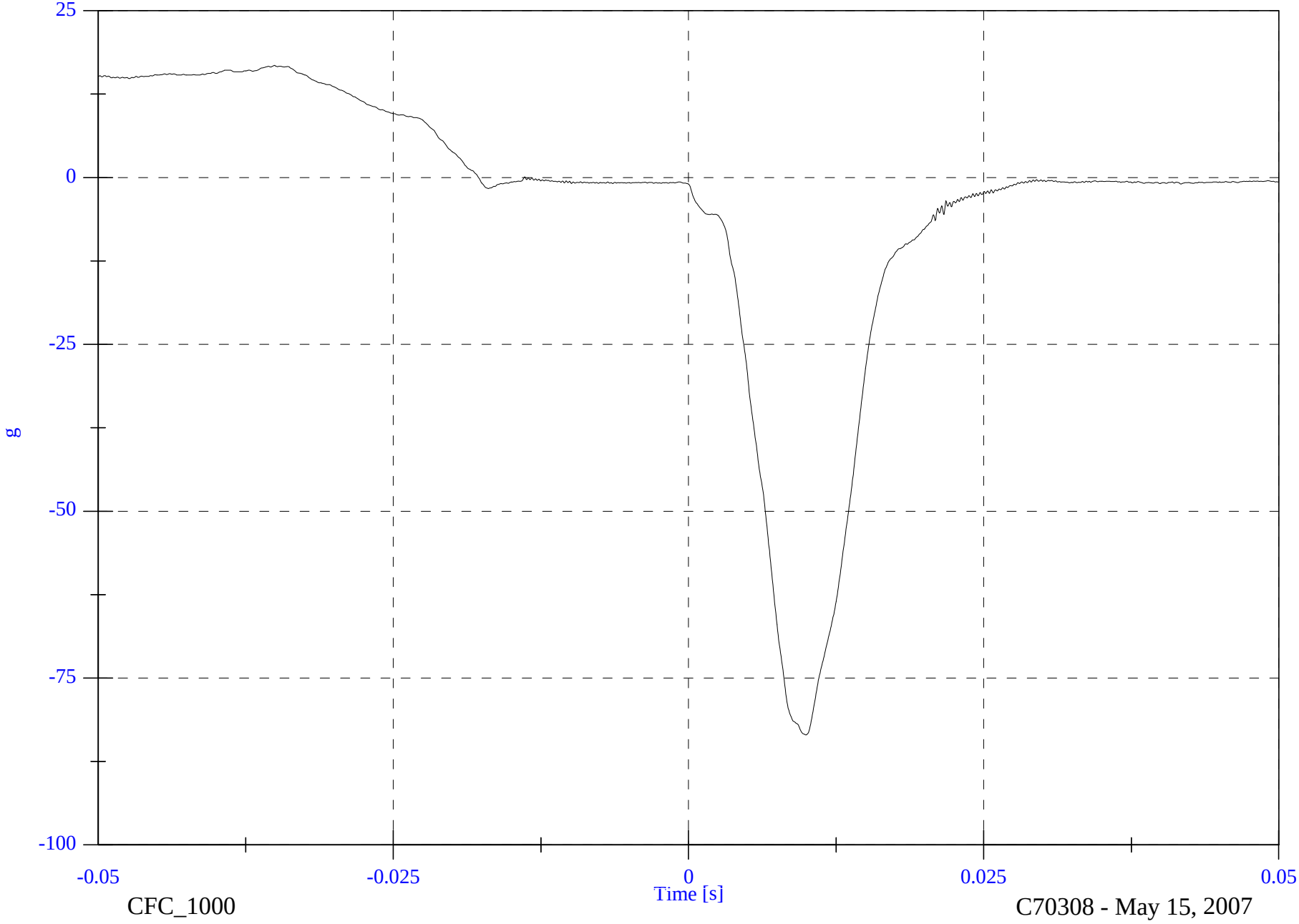
Min: 0.0 [g] at -0.089 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 16.8 [g] at -0.035 [s]
Min: -83.5 [g] at 0.010 [s]



C70308 SR2A IMPACT PLOT #1

8826-FMH-03

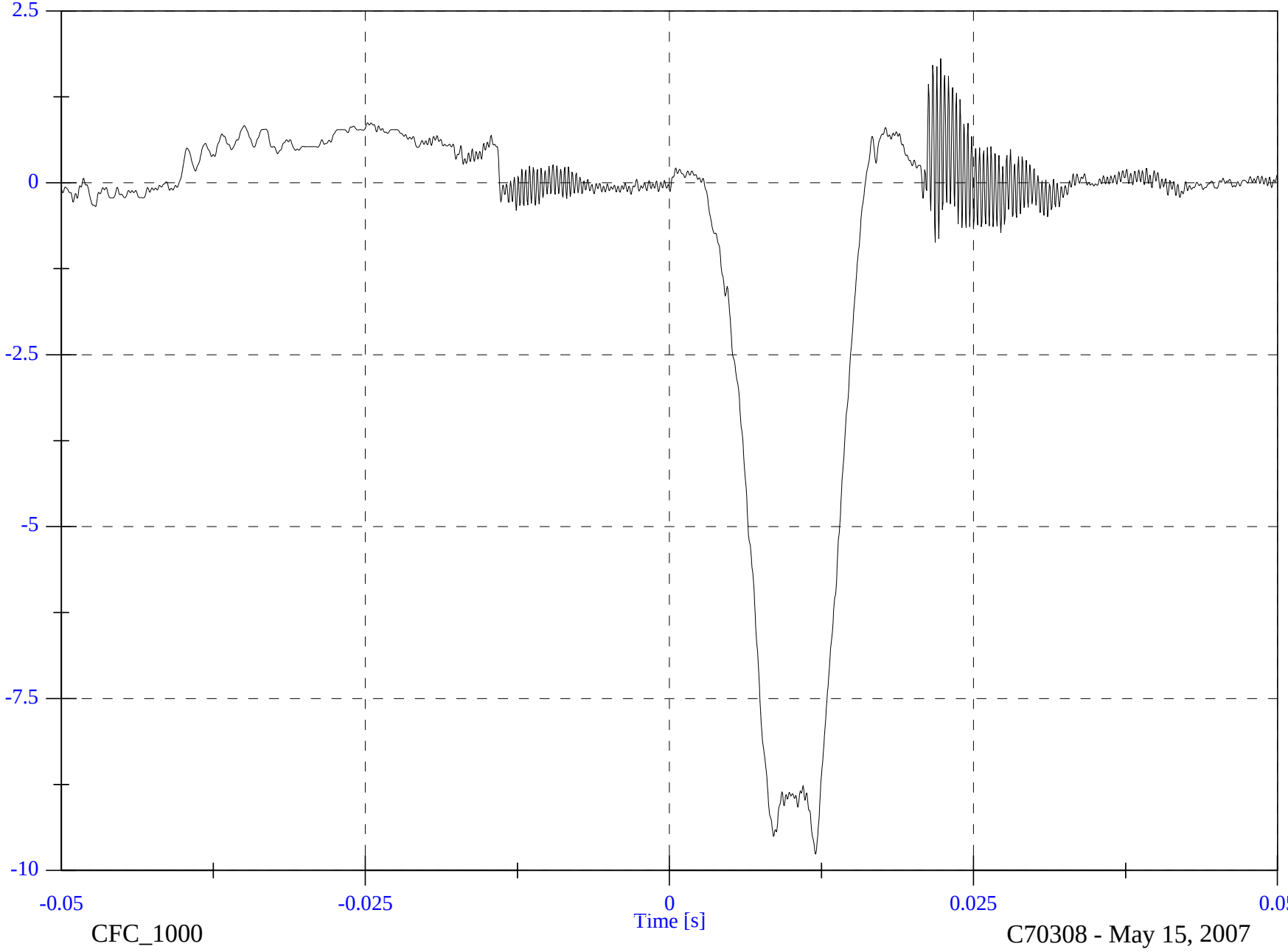
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 1.8 [g] at 0.022 [s]
Min: -9.8 [g] at 0.012 [s]



C70308 SR2A IMPACT PLOT #2

8826-FMH-03

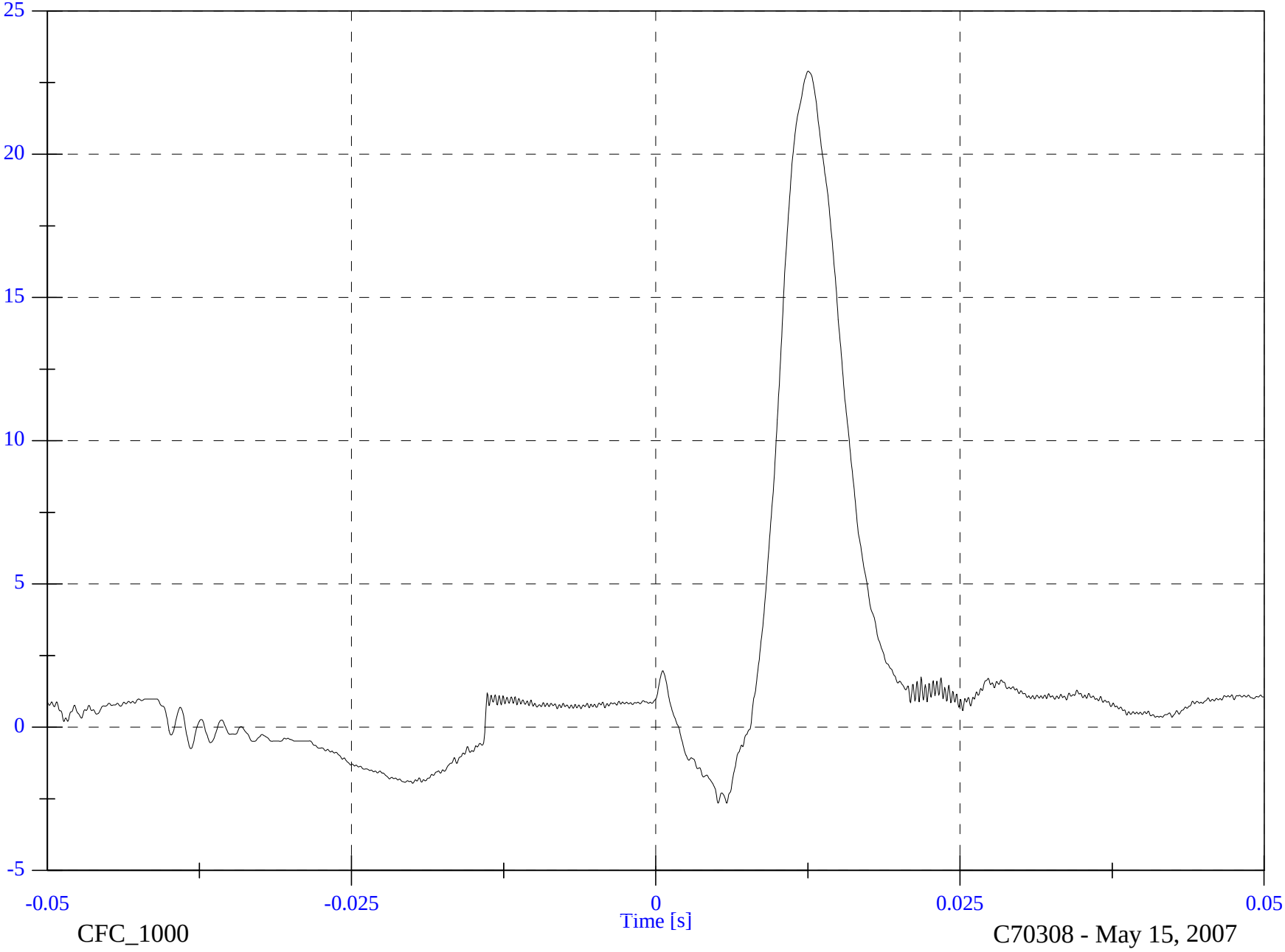
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 22.9 [g] at 0.012 [s]
Min: -2.7 [g] at 0.006 [s]



C70308 SR2A IMPACT PLOT #3

8826-FMH-03

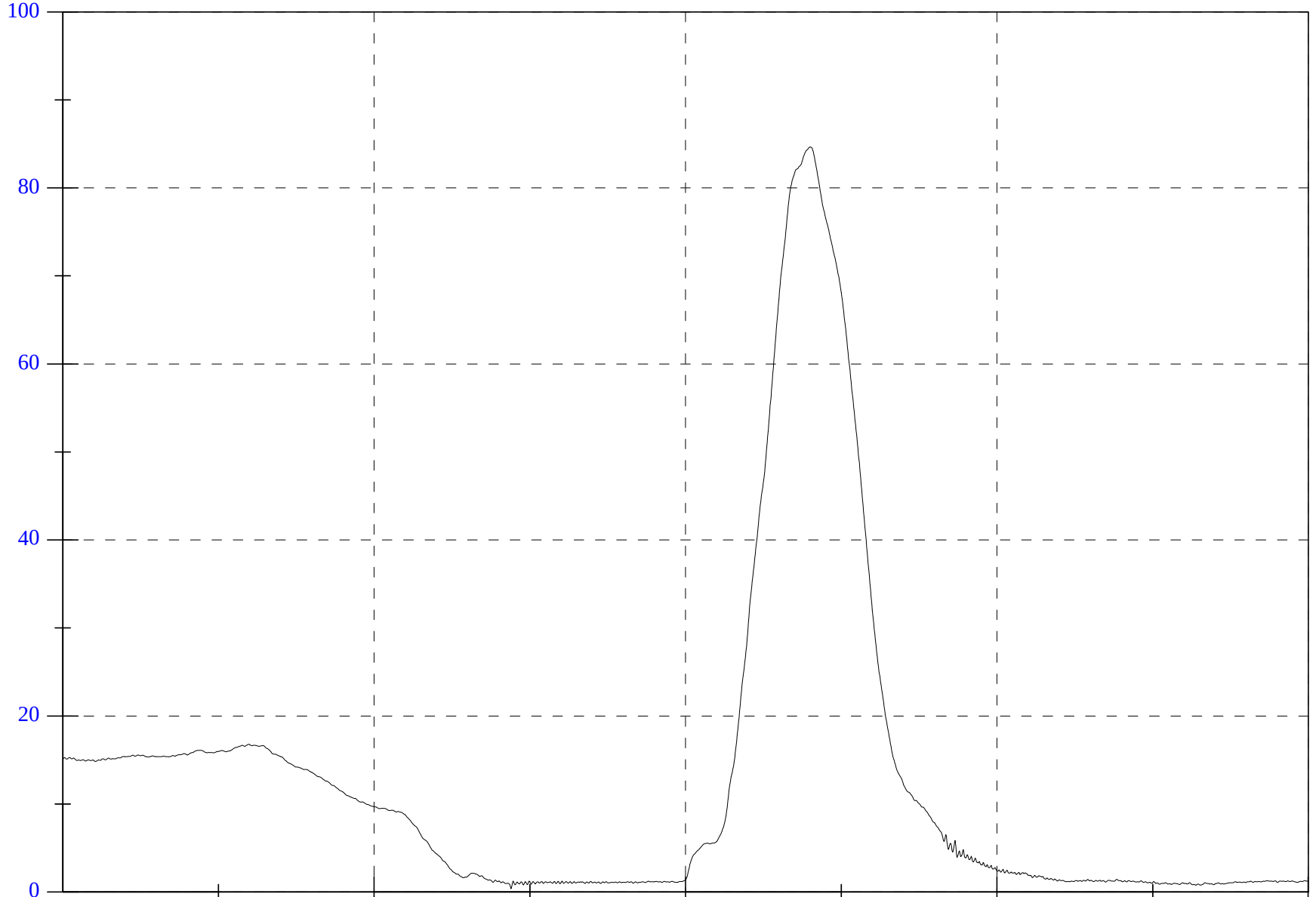
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 84.7 [g] at 0.010 [s]
Min: 0.4 [g] at -0.014 [s]



C70308 SR2A IMPACT PLOT #4

8826-FMH-03

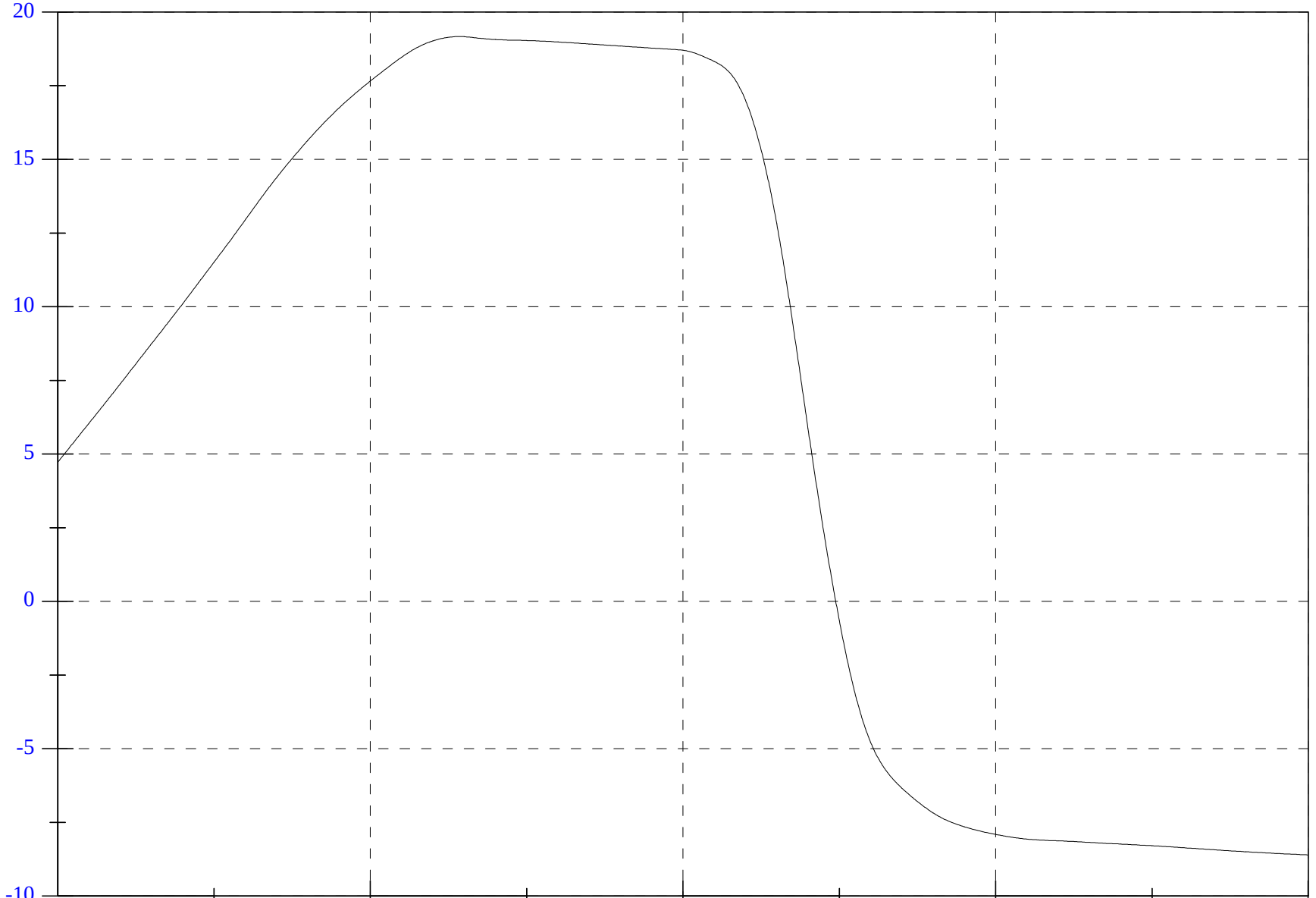
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 19.2 [KPH] at -0.018 [s]
Min: -8.6 [KPH] at 0.050 [s]



C70308 SR2A IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT SR2A

POST-IMPACT SR2A

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	06
Test Date:	05/15/07
Target Location:	A-PILLAR
Target Code:	AP3
Horizontal Impact Angle:	133°
Vertical Impact Angle:	44°
Ambient Temperature:	22.2 C°
Relative Humidity:	41.7
Time of Impact:	14:40
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	0	☐	mm right ☐	mm left
On Centerline	15	mm up		

Photo not available

POST-IMPACT AP3 HEADFORM

Free Motion HIC	297.3
HIC(d)	390.7
Impact Velocity (kph)	18.73
HIC T1 (msec)	3.6
HIC T2 (msec)	12.7

FMVSS 201U 2007 Jeep Compass C70308 - AP3

FMH Headform 0062

Test Date: May 15, 2007

Location: AP3

Work File: AP3

----------TEST RESULTS----------

Lab Temperature: 22.2 C

Lab Humidity: 41.7 %

Velocity at Impact: 18.73 KPH

Free Flight Distance: 216.30 mm

Maximum: 76.8 g

HICd: 390.7

HIC (36ms): 297.3

t1: 3.6 msec

t2: 12.7 msec

Duration: 9.1 msec

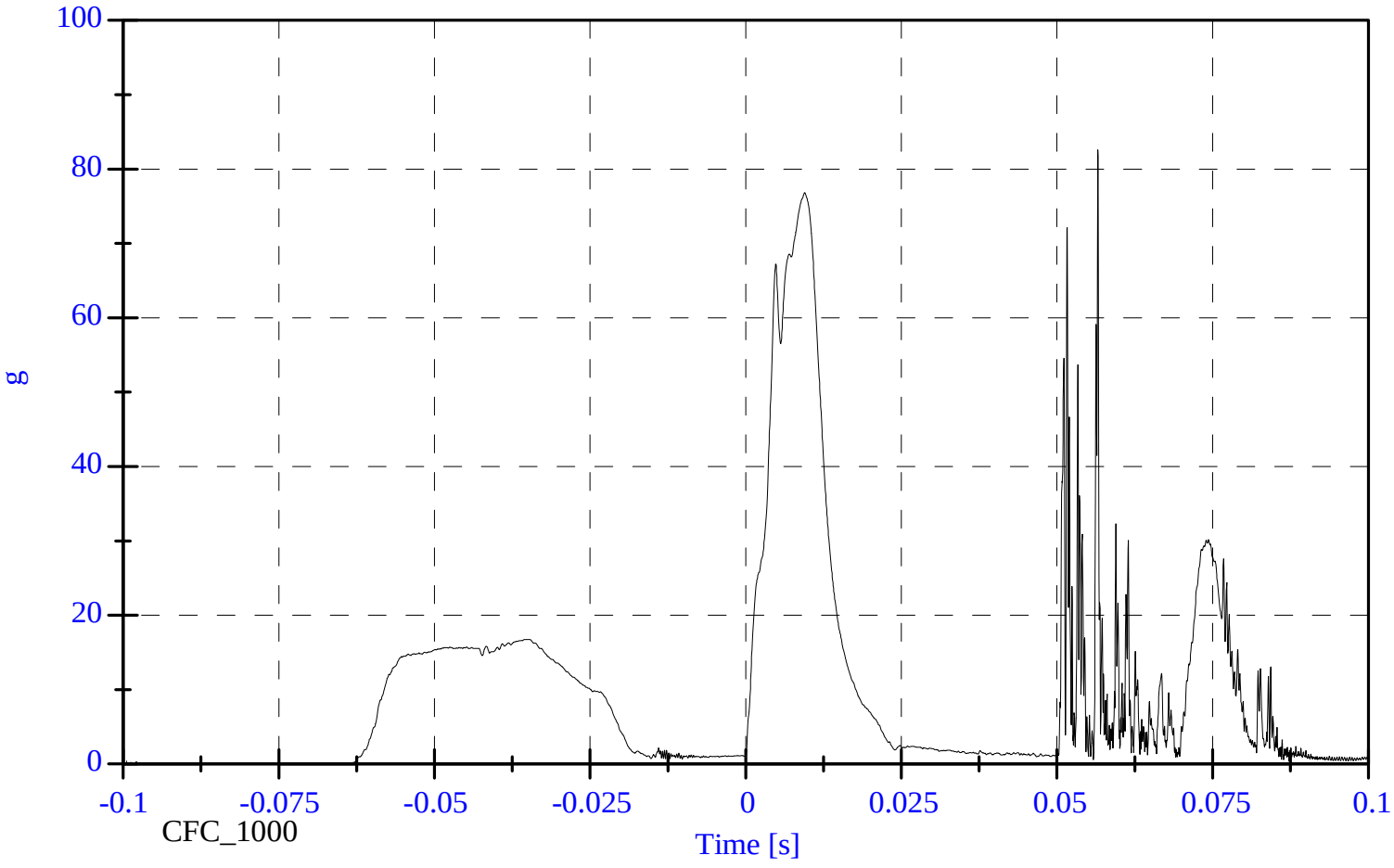
Average Acceleration: 9.4 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 76.8 [g] at 0.009 [s]

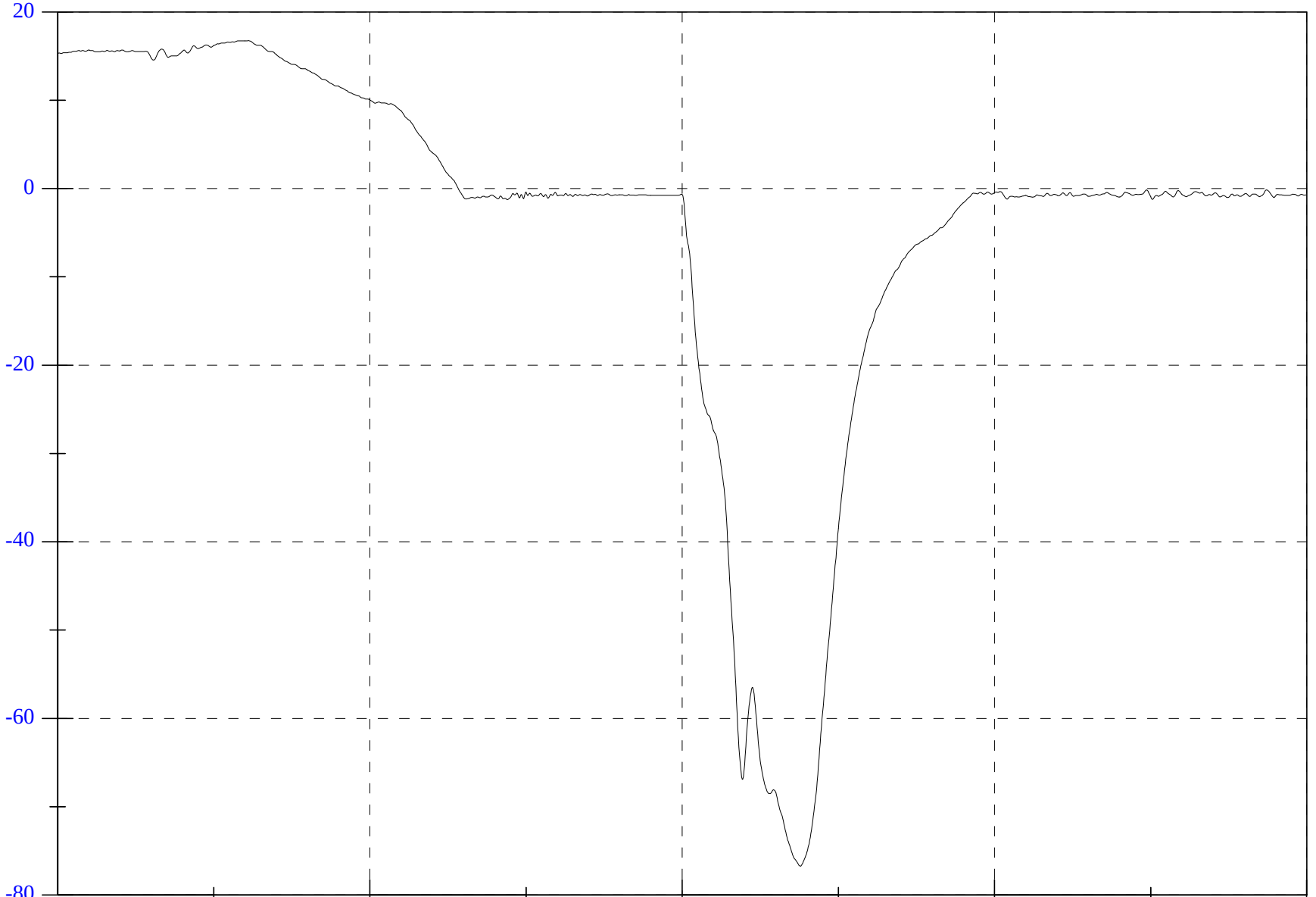
Min: 0.0 [g] at -0.098 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 16.7 [g] at -0.035 [s]
Min: -76.7 [g] at 0.009 [s]



C70308 AP3 IMPACT PLOT #1

8826-FMH-03

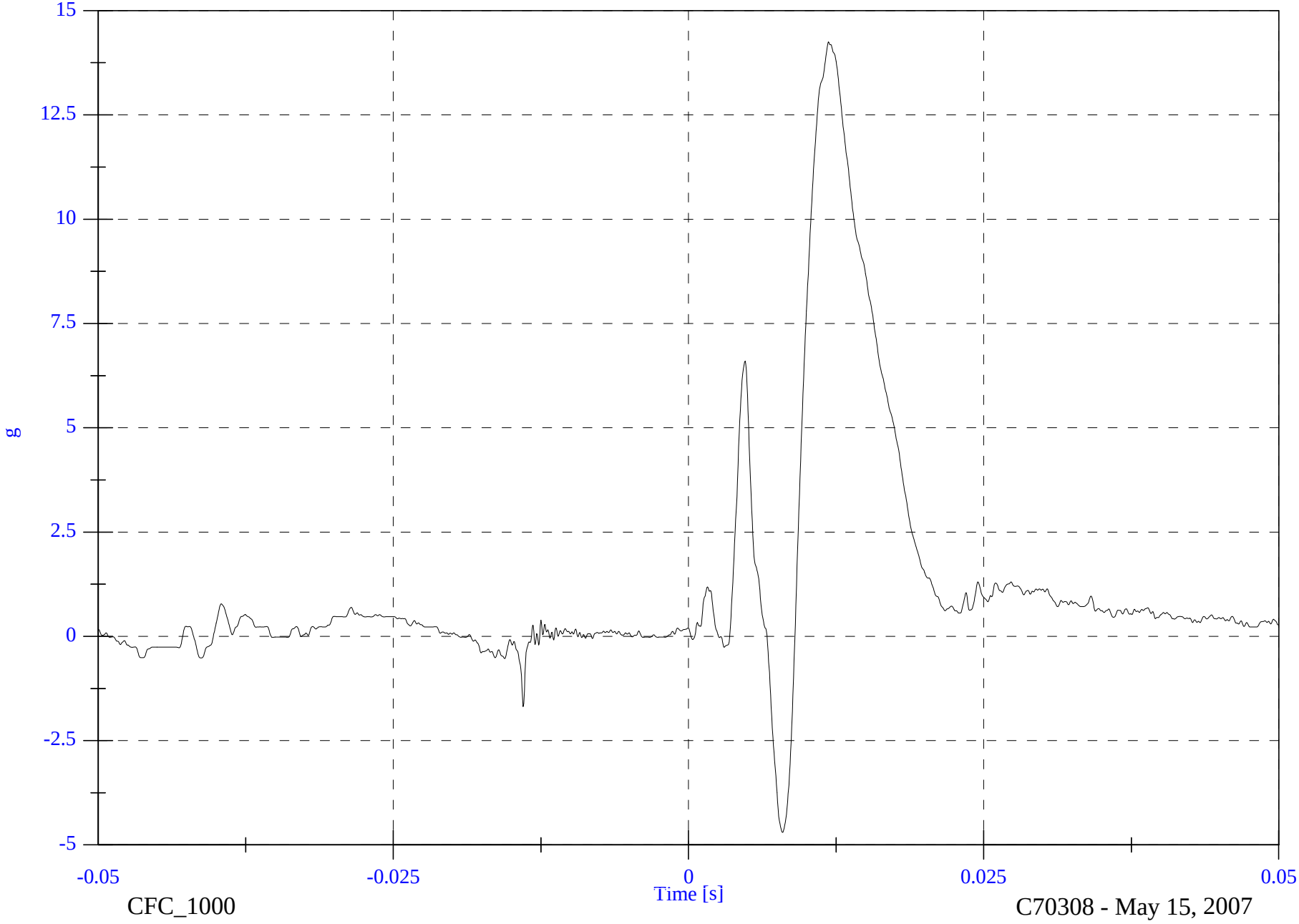
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 14.3 [g] at 0.012 [s]
Min: -4.7 [g] at 0.008 [s]



C70308 AP3 IMPACT PLOT #2

8826-FMH-03

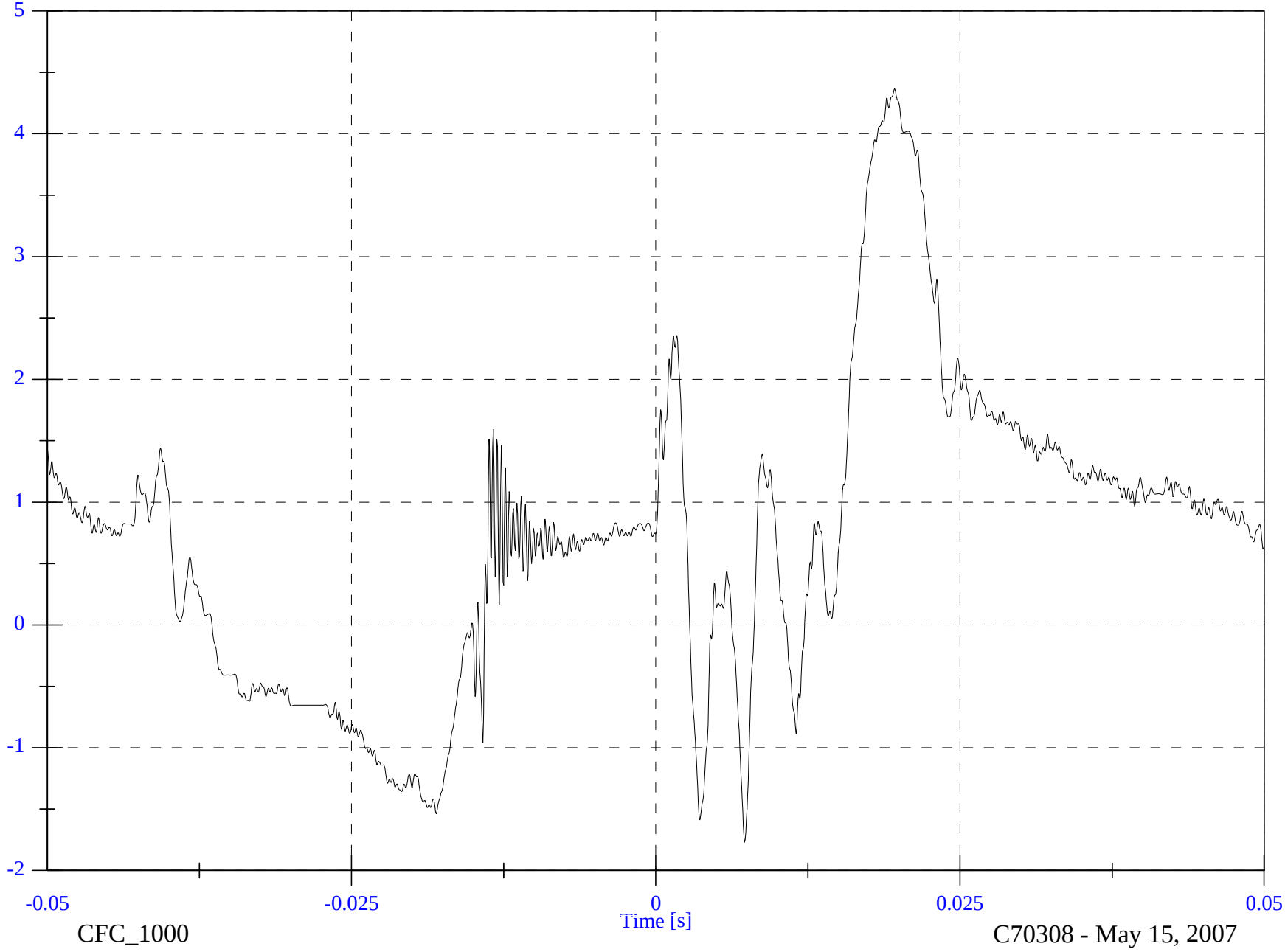
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 4.4 [g] at 0.020 [s]
Min: -1.8 [g] at 0.007 [s]



C70308 AP3 IMPACT PLOT #3

8826-FMH-03

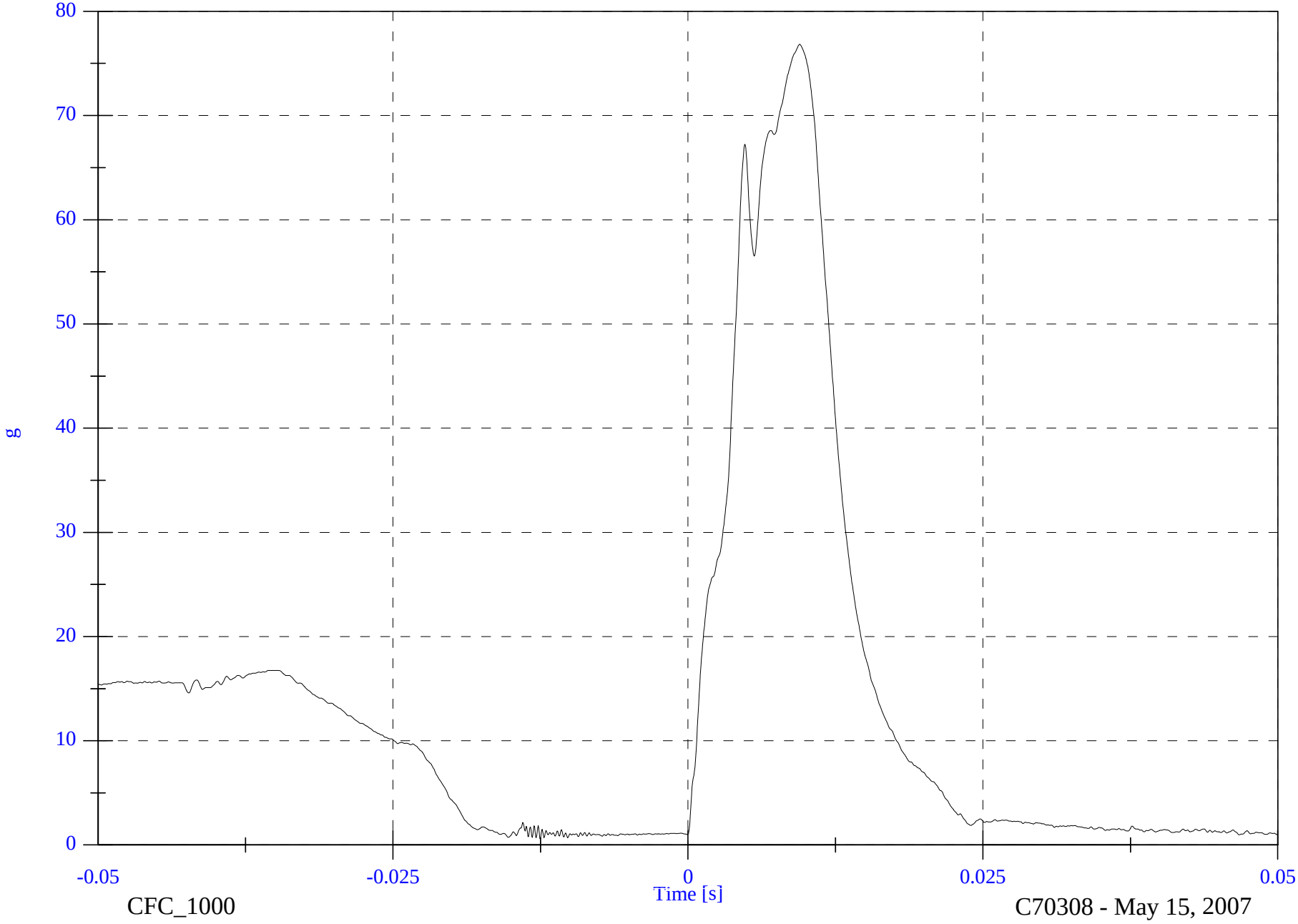
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 76.8 [g] at 0.009 [s]
Min: 0.6 [g] at -0.013 [s]



C70308 AP3 IMPACT PLOT #4

8826-FMH-03

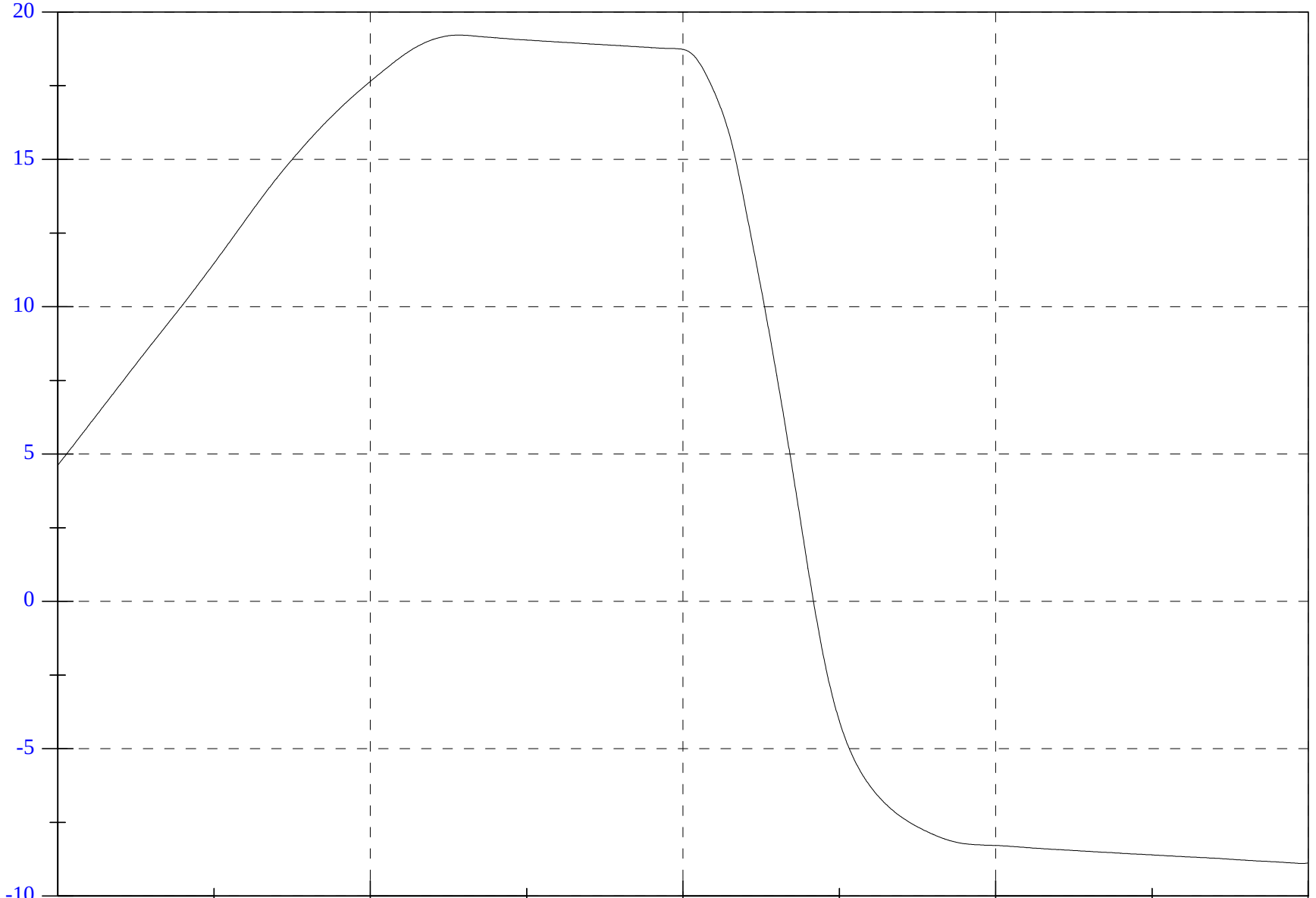
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 19.2 [KPH] at -0.018 [s]
Min: -8.9 [KPH] at 0.049 [s]



C70308 AP3 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT AP3

Photo not available

POST-IMPACT AP3

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	07
Test Date:	05/15/07
Target Location:	A-PILLAR
Target Code:	AP1
Horizontal Impact Angle:	116°
Vertical Impact Angle:	43°
Ambient Temperature:	22.4 C°
Relative Humidity:	40.5
Time of Impact:	15:30
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	13	x	mm right		mm left
On Centerline	20	mm up			

POST-IMPACT AP1 HEADFORM

Free Motion HIC	185.7
HIC(d)	306.5
Impact Velocity (kph)	18.48
HIC T1 (msec)	7.0
HIC T2 (msec)	16.7

FMVSS 201U 2007 Jeep Compass C70308 - AP1

FMH Headform 0355

Location: AP1

Test Date: May 15, 2007

Work File: AP1

----------**TEST RESULTS**----------

Lab Temperature: 22.4 C

Lab Humidity: 40.5 %

Velocity at Impact: 18.48 KPH

Free Flight Distance: 228.85 mm

Maximum: 67.5 g

HICd: 306.5

HIC (36ms): 185.7

t1: 7.0 msec

t2: 16.7 msec

Duration: 9.7 msec

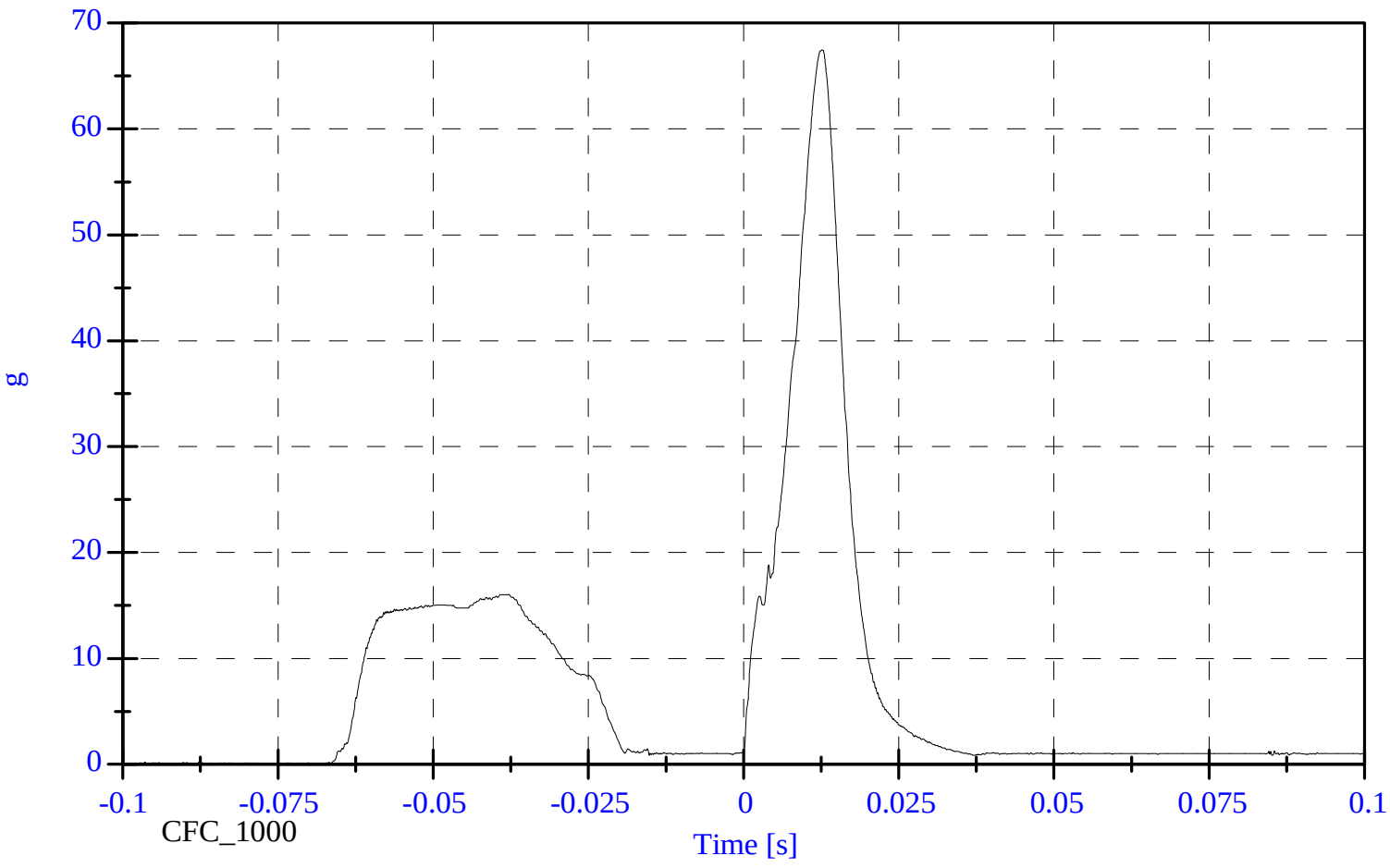
Average Acceleration: 6.8 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 67.5 [g] at 0.013 [s]

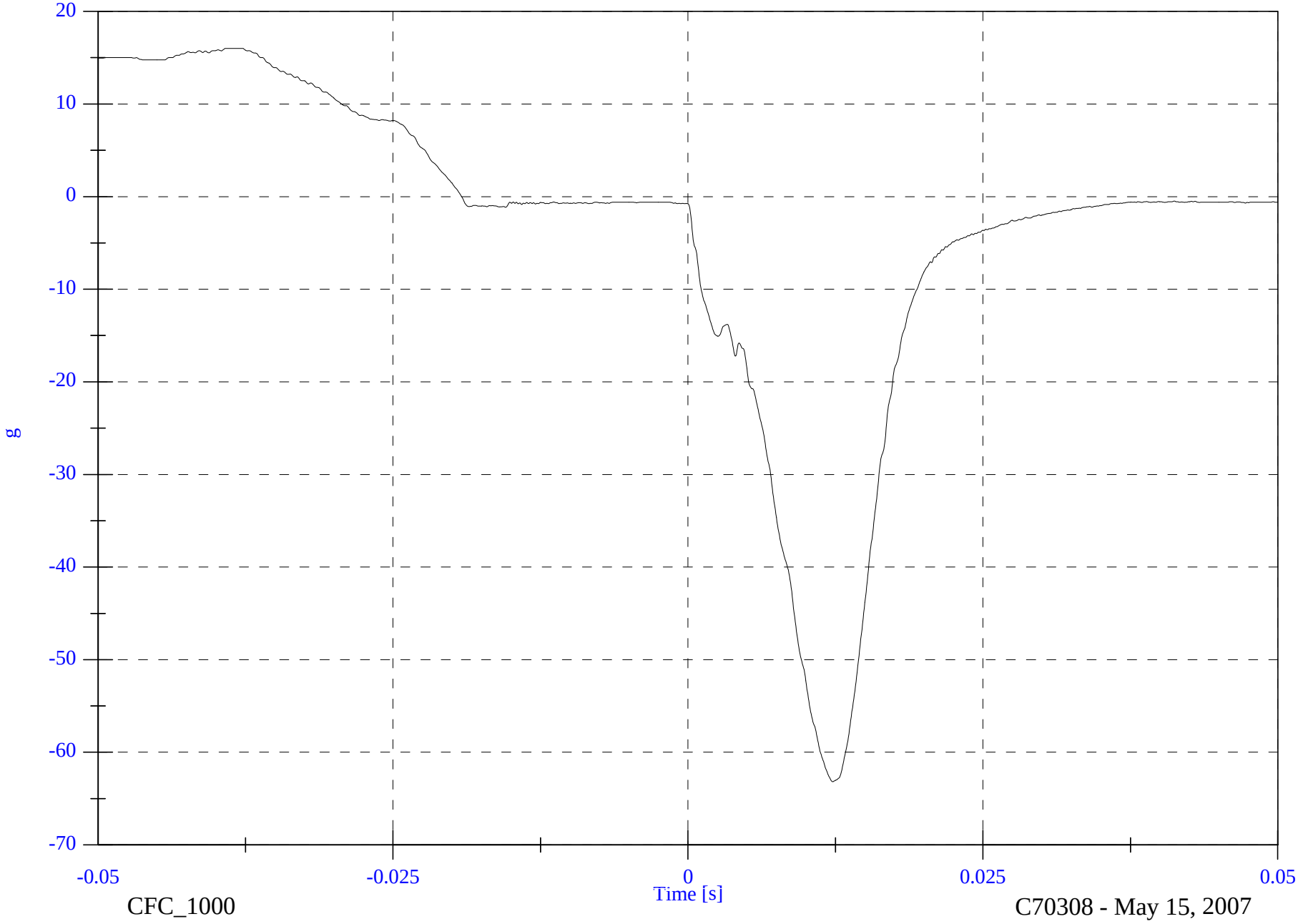
Min: 0.0 [g] at -0.072 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 16.0 [g] at -0.039 [s]
Min: -63.2 [g] at 0.012 [s]



C70308 AP1 IMPACT PLOT #1

8826-FMH-03

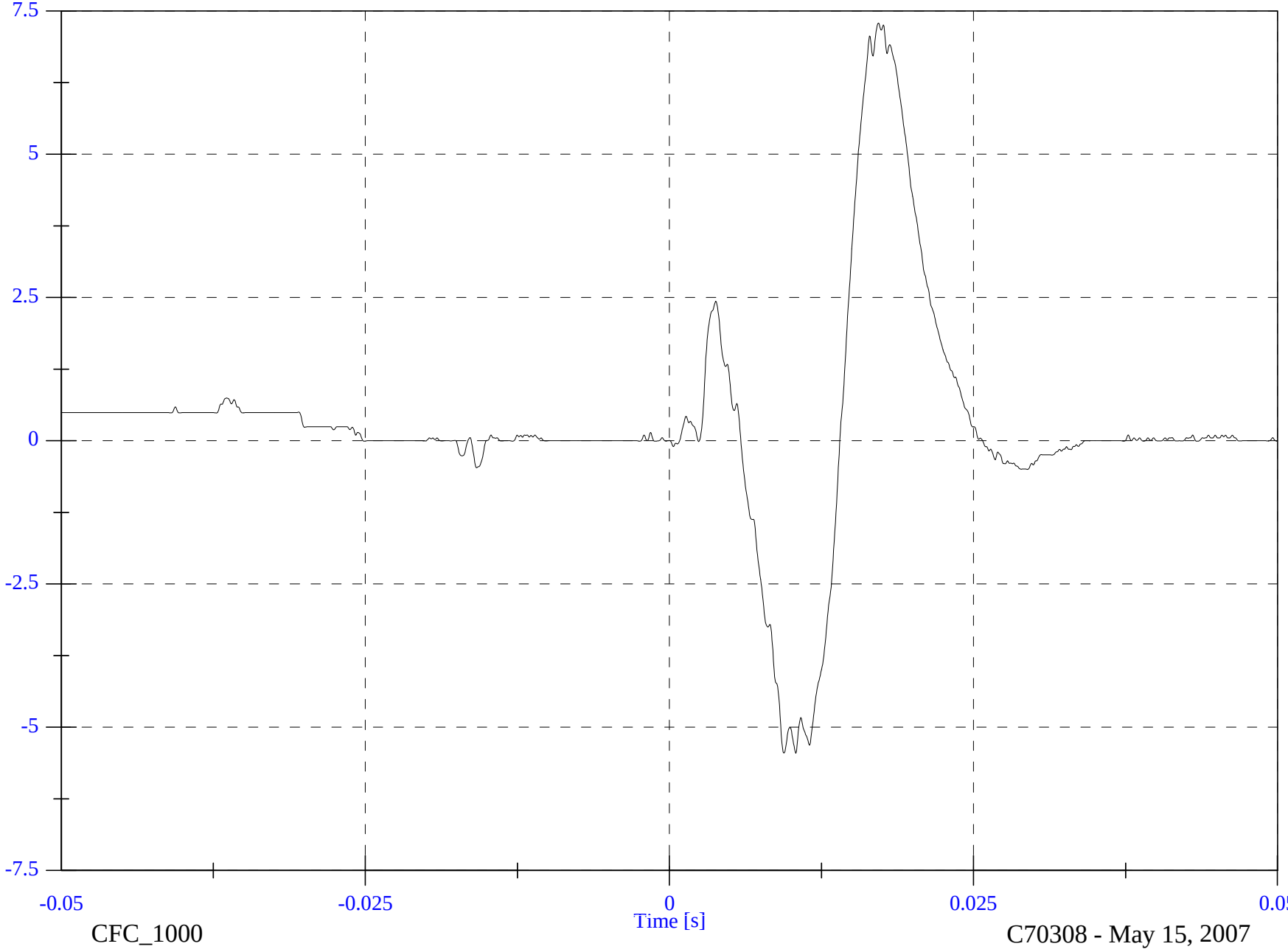
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 7.3 [g] at 0.017 [s]
Min: -5.5 [g] at 0.010 [s]



C70308 AP1 IMPACT PLOT #2

8826-FMH-03

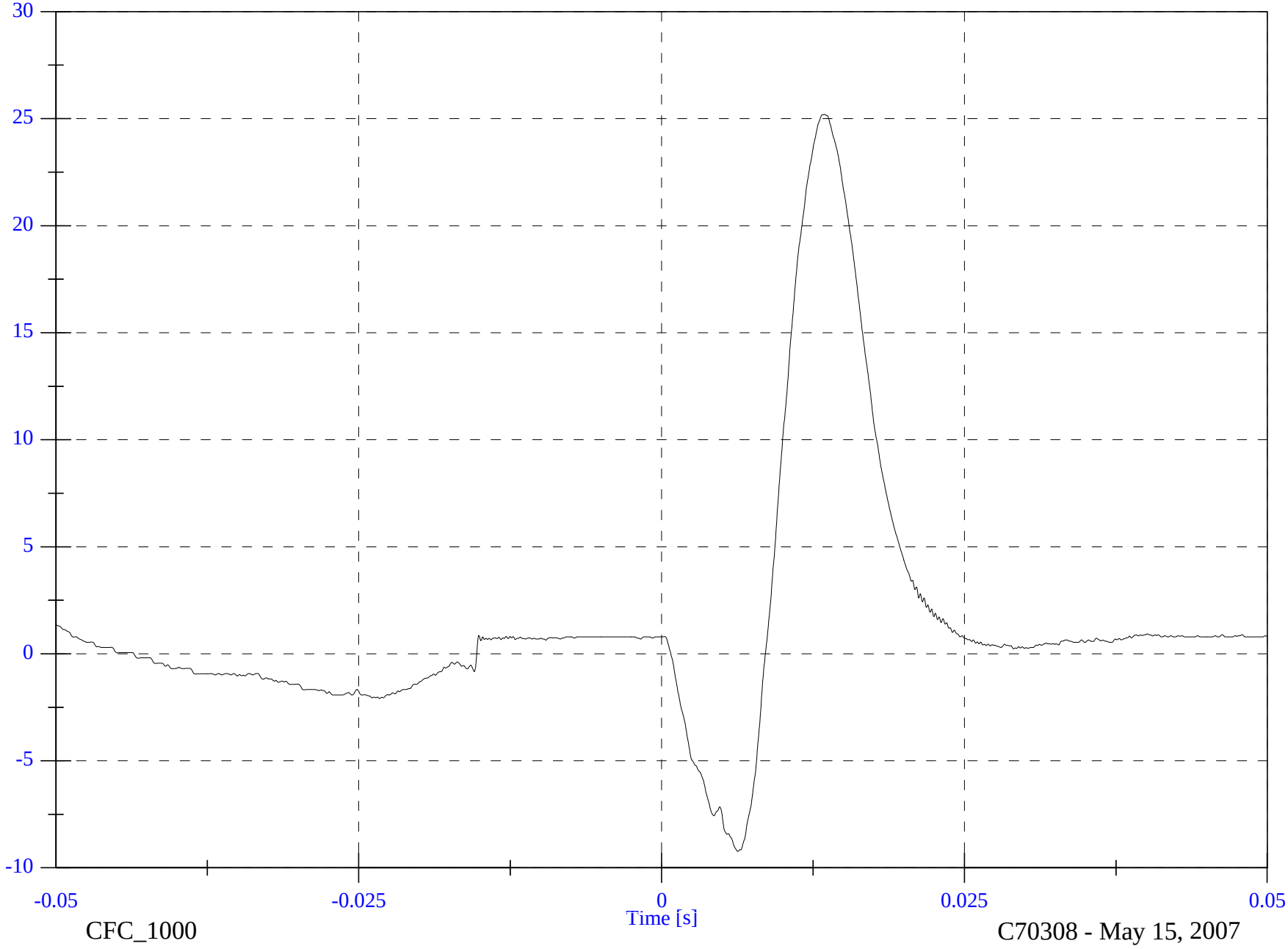
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 25.2 [g] at 0.013 [s]
Min: -9.2 [g] at 0.006 [s]



C70308 AP1 IMPACT PLOT #3

8826-FMH-03

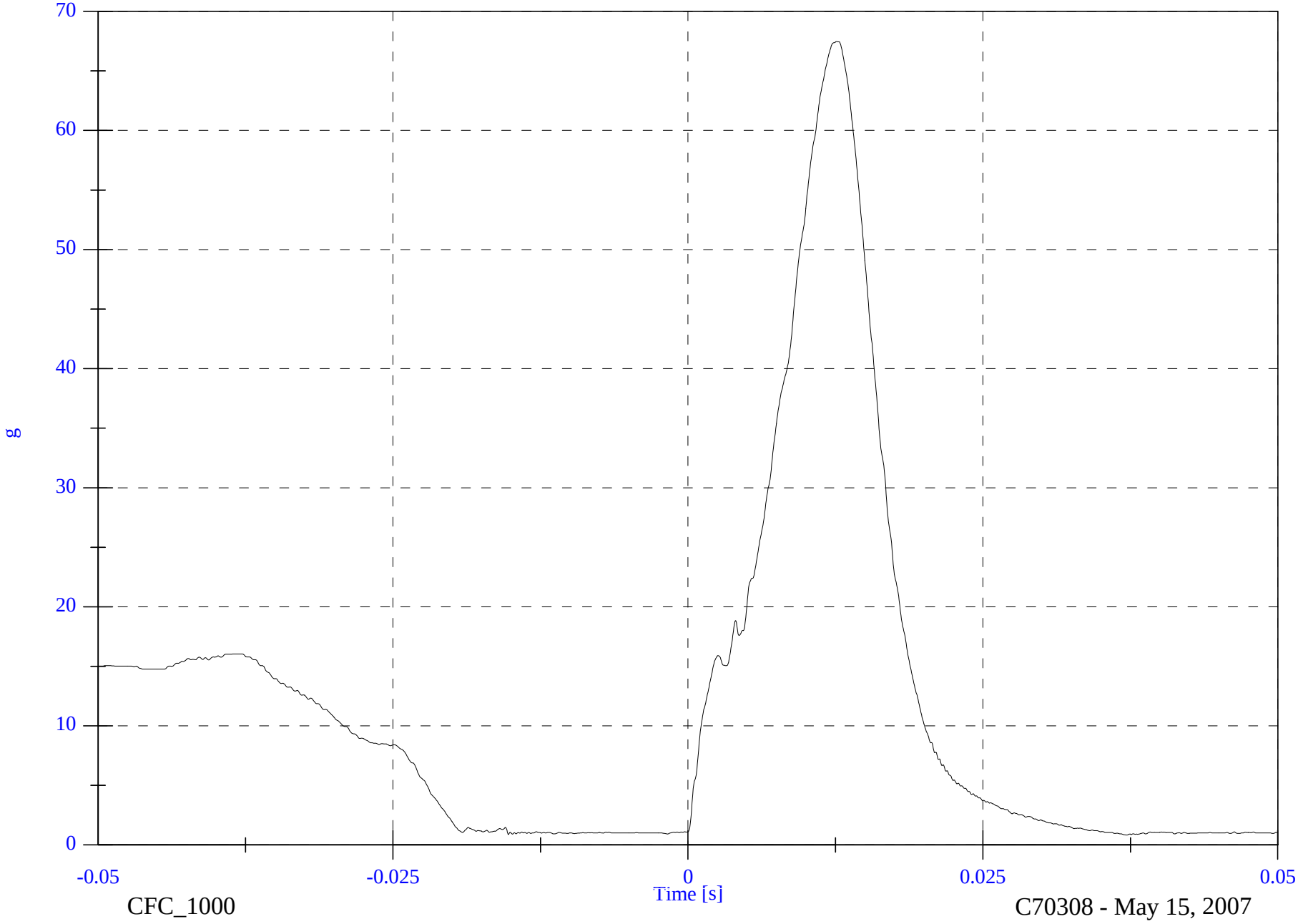
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 67.5 [g] at 0.013 [s]
Min: 0.8 [g] at 0.037 [s]



C70308 AP1 IMPACT PLOT #4

8826-FMH-03

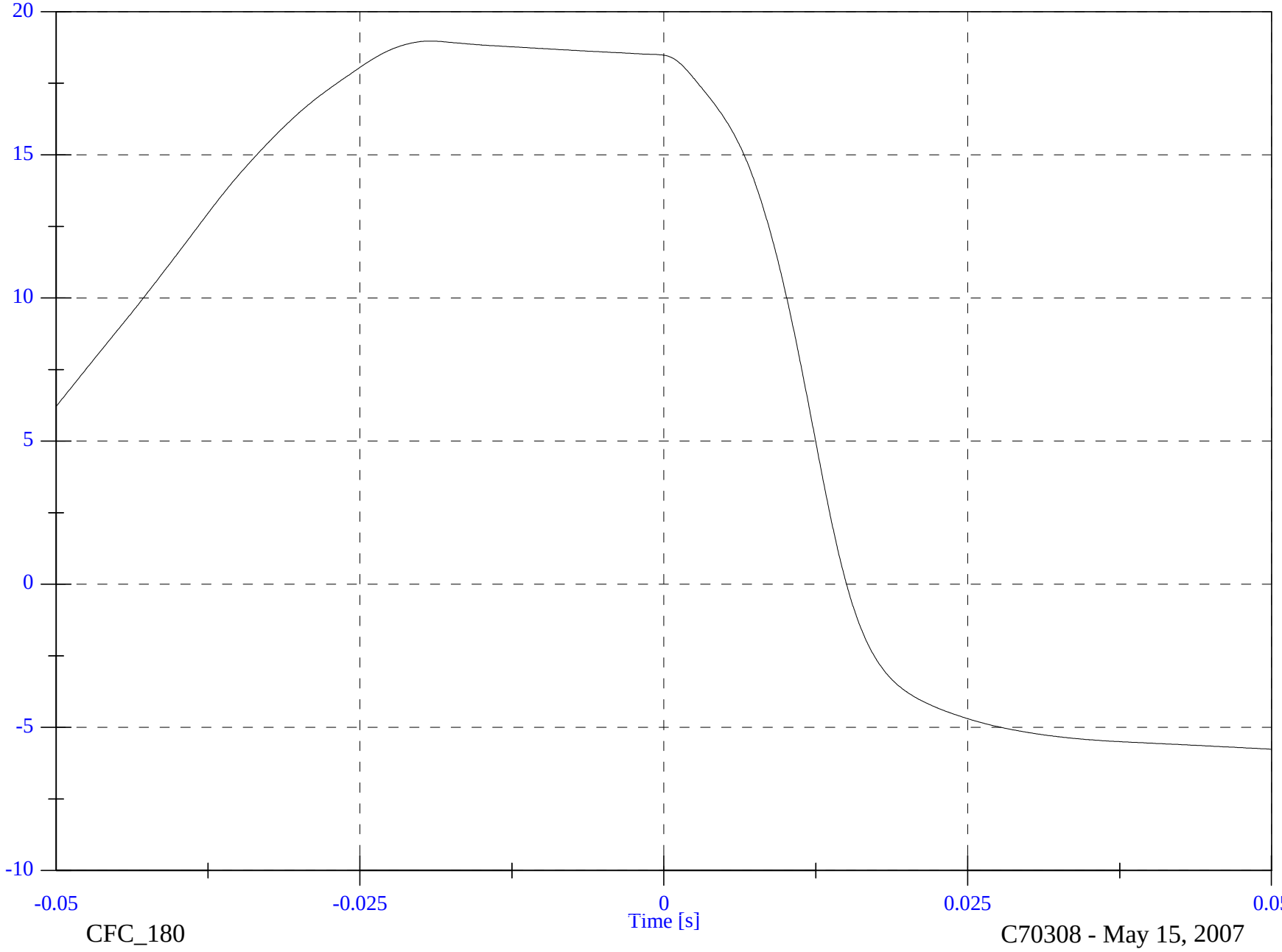
CFC_1000

C70308 - May 15, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 19.0 [KPH] at -0.019 [s]
Min: -5.8 [KPH] at 0.050 [s]



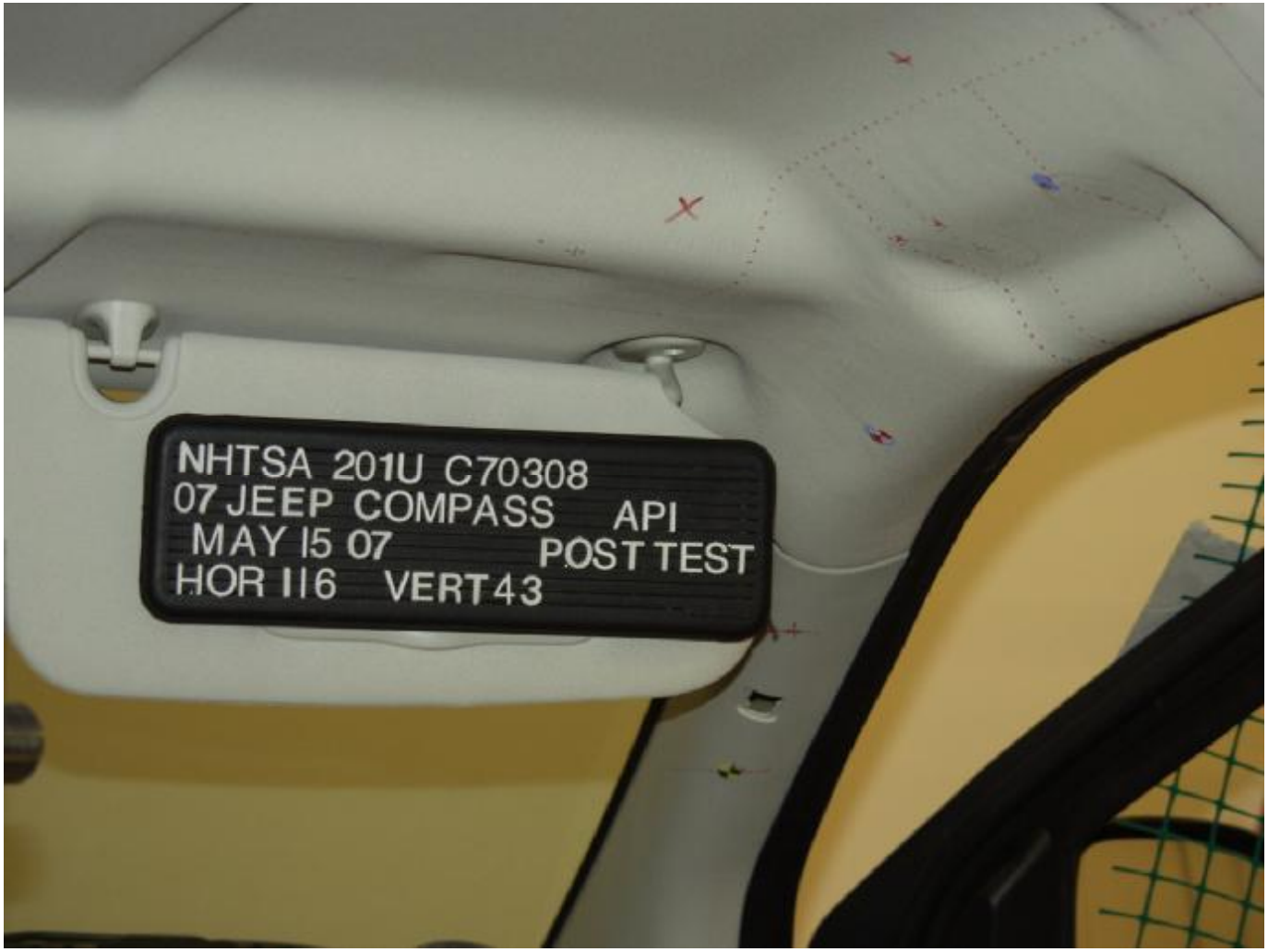
C70308 AP1 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 15, 2007

PRE-IMPACT AP1



POST-IMPACT AP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	08
Test Date:	05/16/07
Target Location:	OTHER PILLAR
Target Code:	OP2
Horizontal Impact Angle:	270°
Vertical Impact Angle:	-4°
Ambient Temperature:	20.2 C°
Relative Humidity:	55.9
Time of Impact:	10:15
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	0	☐	mm right ☐	mm left
On Centerline	25	mm up		

POST-IMPACT OP2 HEADFORM

Free Motion HIC	444.8
HIC(d)	502.0
Impact Velocity (kph)	23.48
HIC T1 (msec)	3.2
HIC T2 (msec)	10.5

FMVSS 201U 2007 Jeep Compass C70308 - OP2

FMH Headform 0355

Location: OP2

Test Date: May 16, 2007

Work File: OP2

----------TEST RESULTS----------

Lab Temperature: 10:15 C

Lab Humidity: 55.9 %

Velocity at Impact: 23.48 KPH

Free Flight Distance: 224.04 mm

Maximum: 101.2 g

HICd: 502.0

HIC (36ms): 444.8

t1: 3.2 msec

t2: 10.5 msec

Duration: 7.3 msec

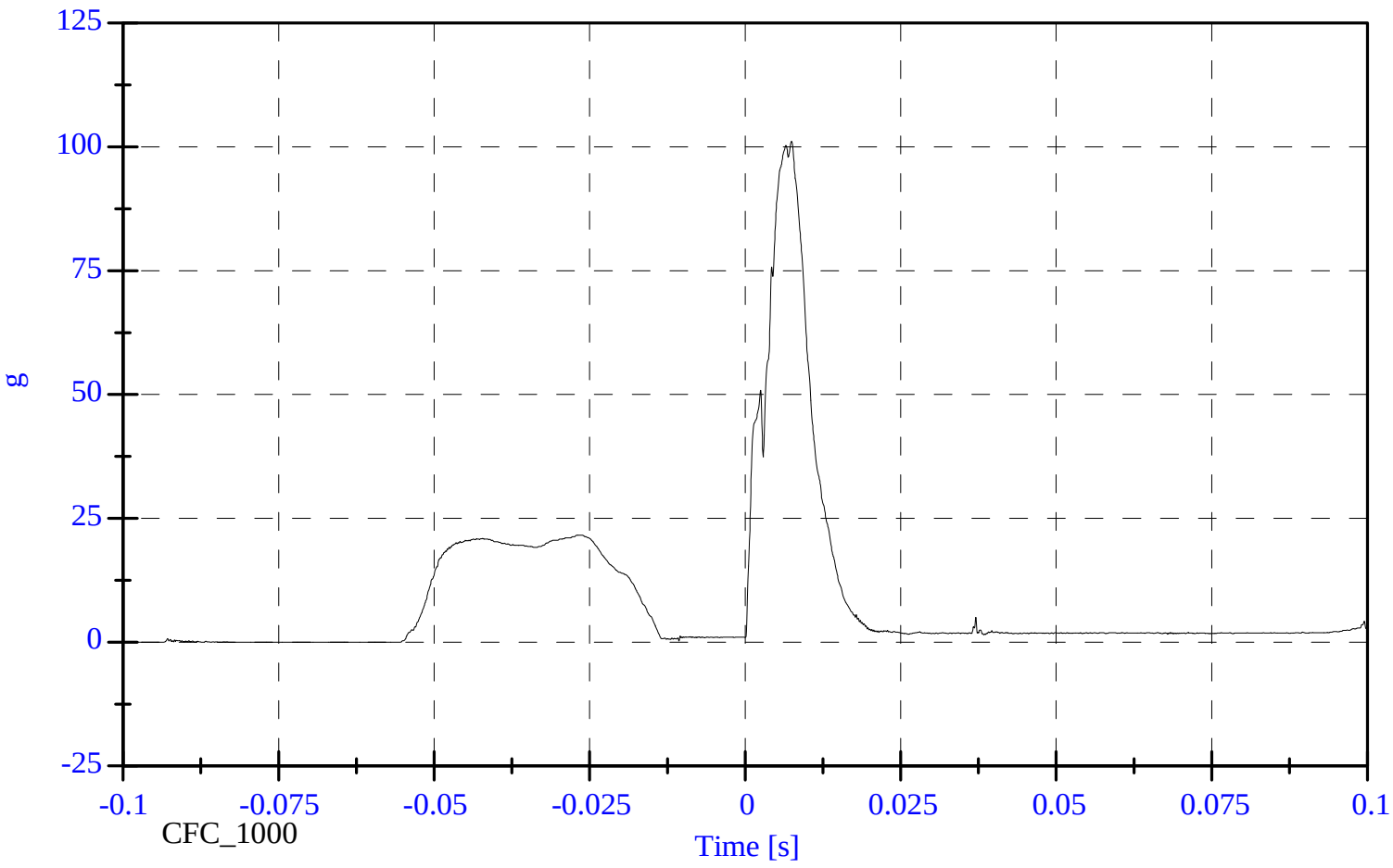
Average Acceleration: 8.5 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 101.2 [g] at 0.007 [s]

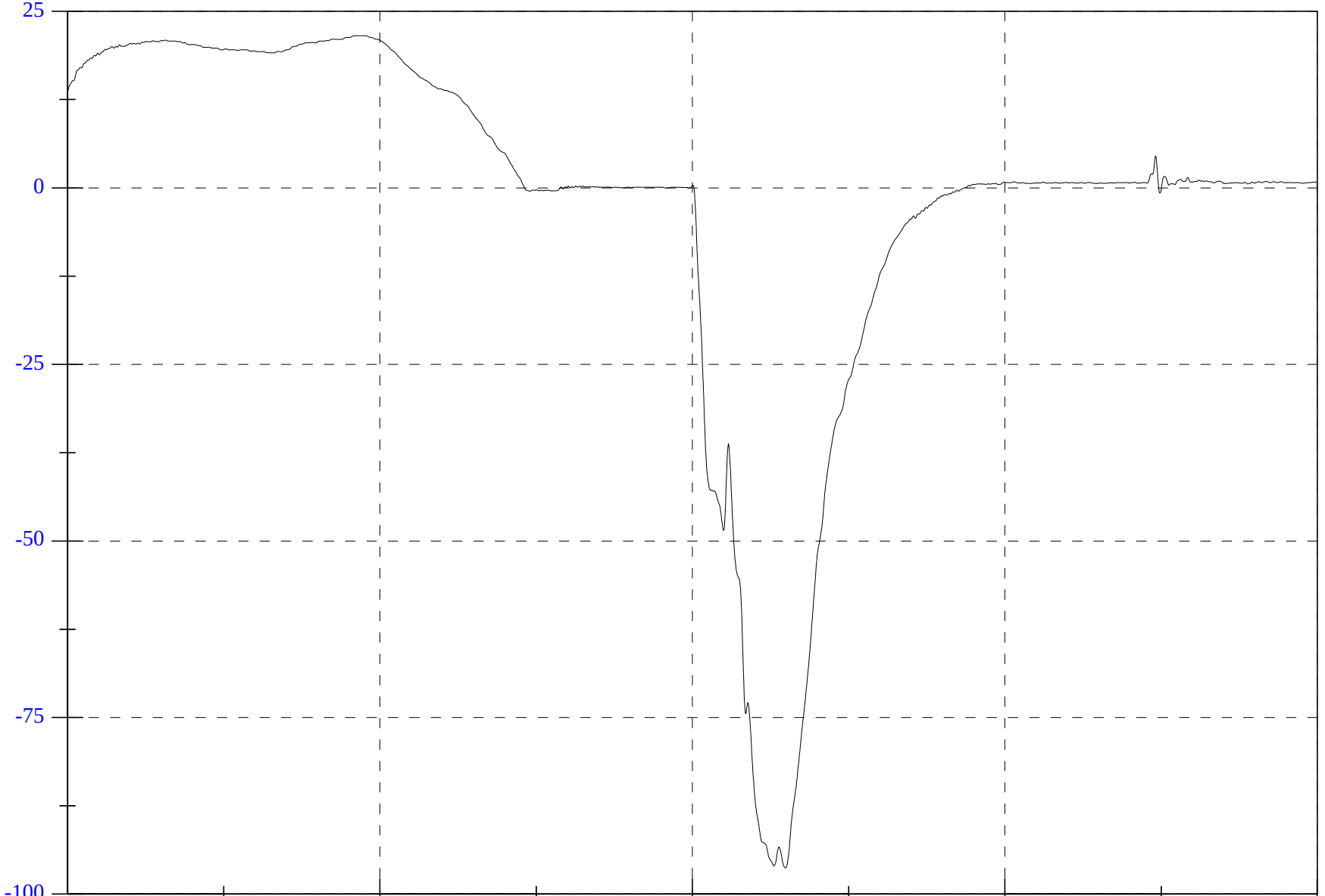
Min: -0.0 [g] at -0.099 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 21.5 [g] at -0.027 [s]
Min: -96.3 [g] at 0.007 [s]



C70308 OP2 IMPACT PLOT #1

8826-FMH-03

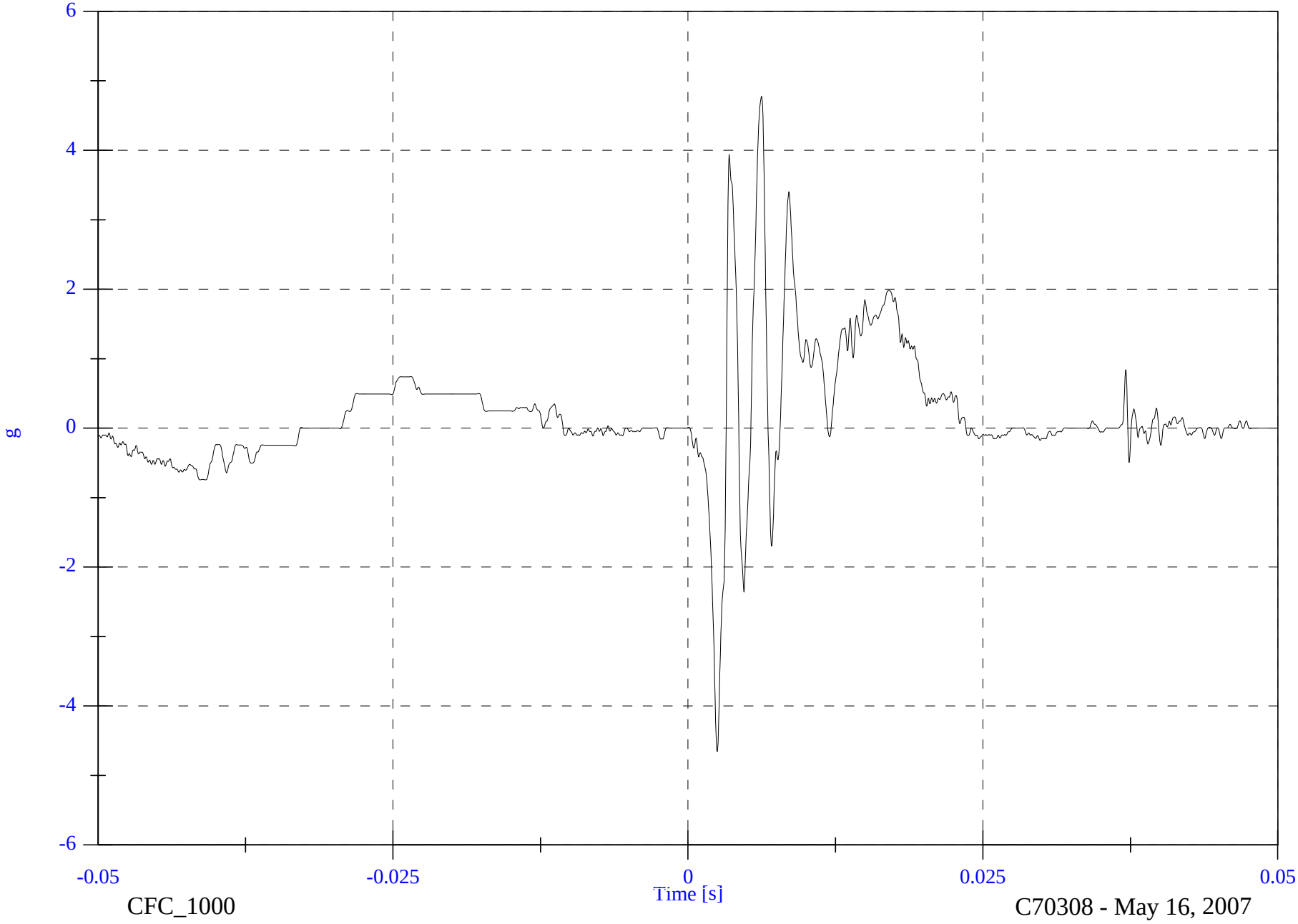
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 4.8 [g] at 0.006 [s]
Min: -4.7 [g] at 0.002 [s]



C70308 OP2 IMPACT PLOT #2

8826-FMH-03

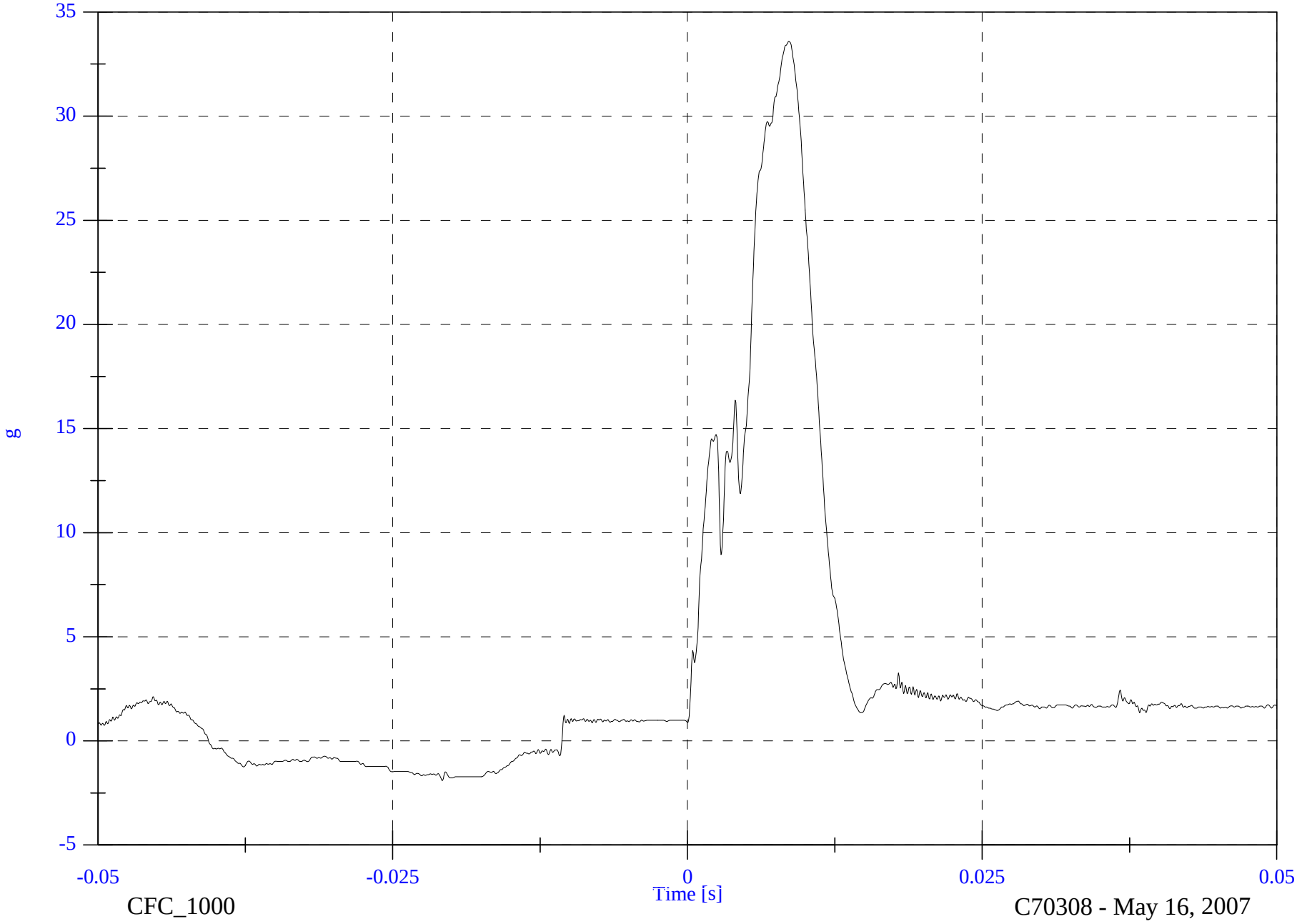
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 33.6 [g] at 0.009 [s]
Min: -1.9 [g] at -0.021 [s]



C70308 OP2 IMPACT PLOT #3

8826-FMH-03

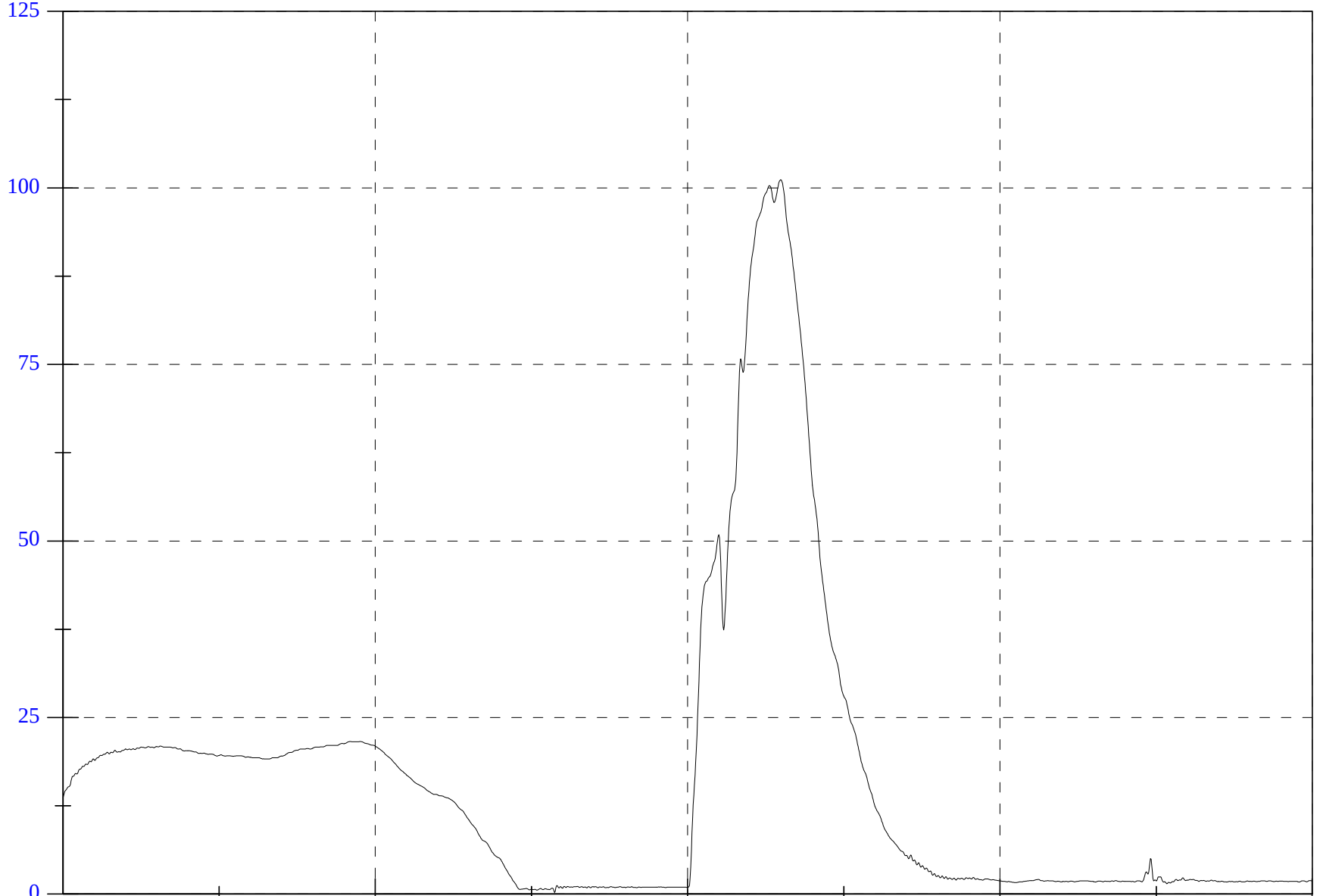
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 101.2 [g] at 0.007 [s]
Min: 0.2 [g] at -0.011 [s]



C70308 OP2 IMPACT PLOT #4

8826-FMH-03

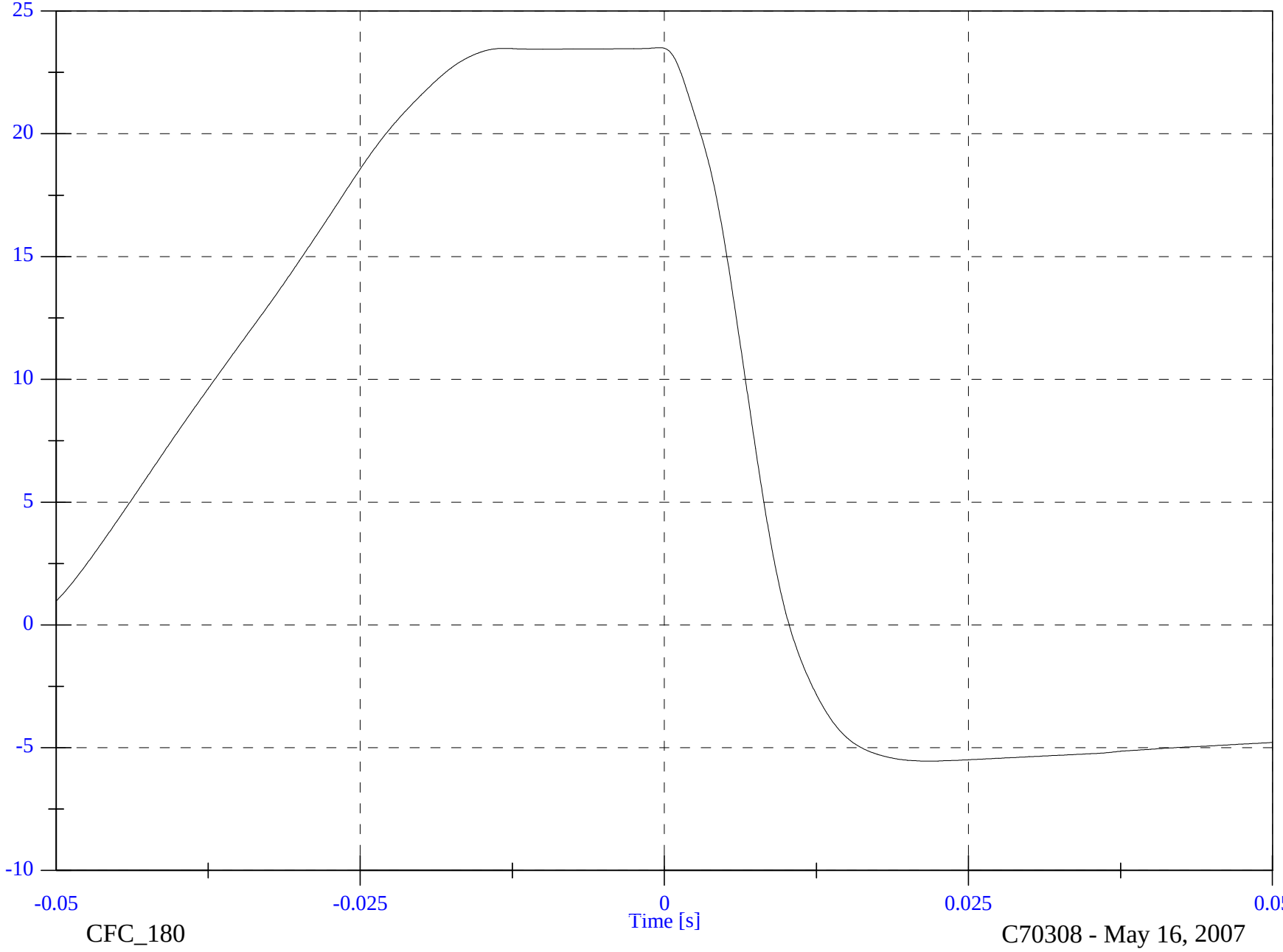
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 23.5 [KPH] at -0.000 [s]
Min: -5.5 [KPH] at 0.022 [s]



C70308 OP2 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 16, 2007

PRE-IMPACT OP2

POST-IMPACT OP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	09
Test Date:	05/16/07
Target Location:	REAR PILLAR
Target Code:	RP2
Horizontal Impact Angle:	275°
Vertical Impact Angle:	-10°
Ambient Temperature:	20.3 C°
Relative Humidity:	55.6
Time of Impact:	10:55
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	0	☐	mm right ☐	mm left
On Centerline	34	mm up		

POST-IMPACT RP2 HEADFORM

Free Motion HIC	748.2
HIC(d)	730.9
Impact Velocity (kph)	23.54
HIC T1 (msec)	4.6
HIC T2 (msec)	11.5

FMVSS 201U 2007 Jeep Compass C70308 - RP2

FMH Headform 1255

Location: RP2

Test Date: May 16, 2007

Work File: RP2

----------**TEST RESULTS**----------

Lab Temperature: 20.3 C

Lab Humidity: 55.6 %

Velocity at Impact: 23.54 KPH

Free Flight Distance: 220.49 mm

Maximum: 147.3 g

HICd: 730.9

HIC (36ms): 748.2

t1: 4.6 msec

t2: 11.5 msec

Duration: 6.9 msec

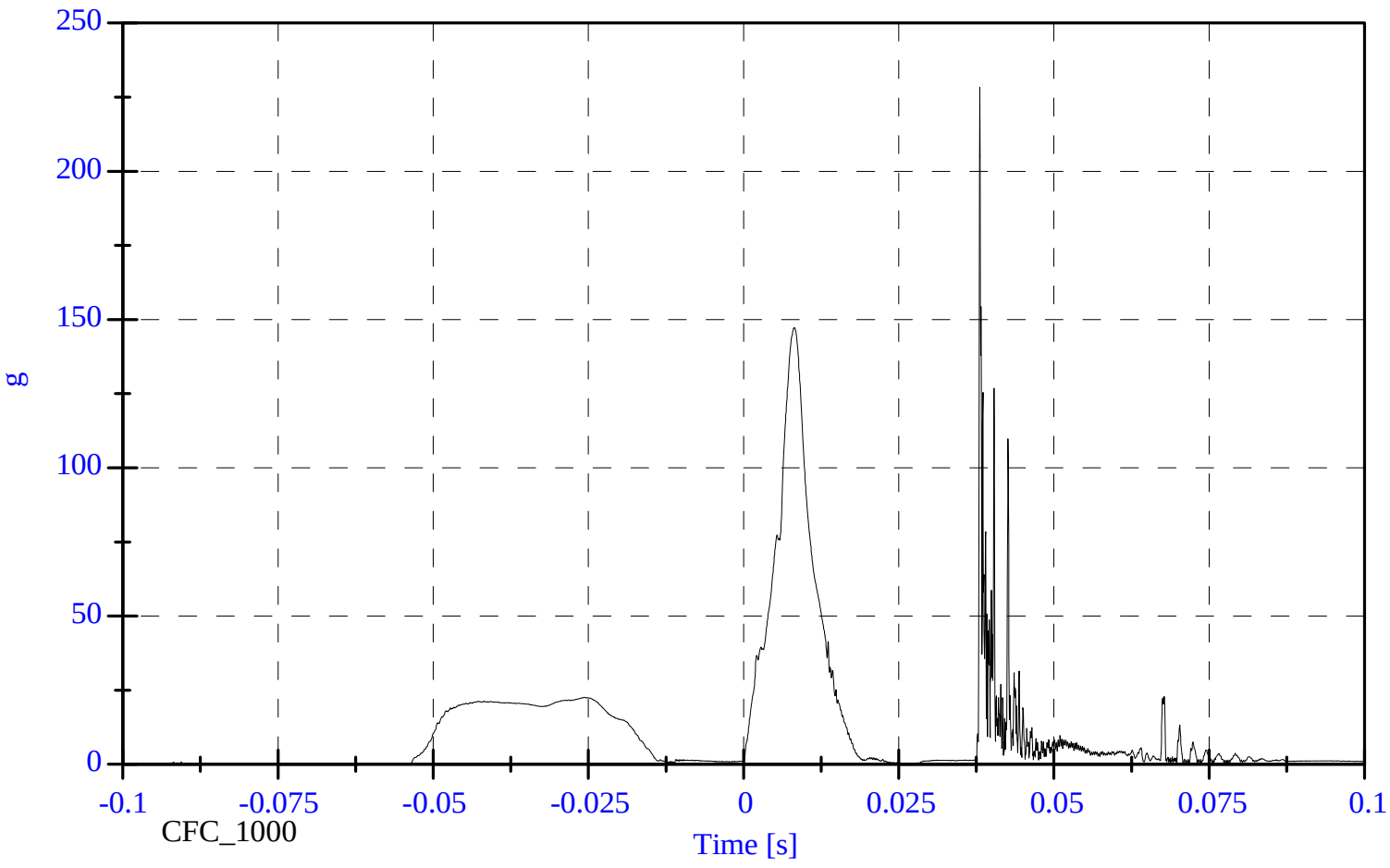
Average Acceleration: 11.0 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 147.3 [g] at 0.008 [s]

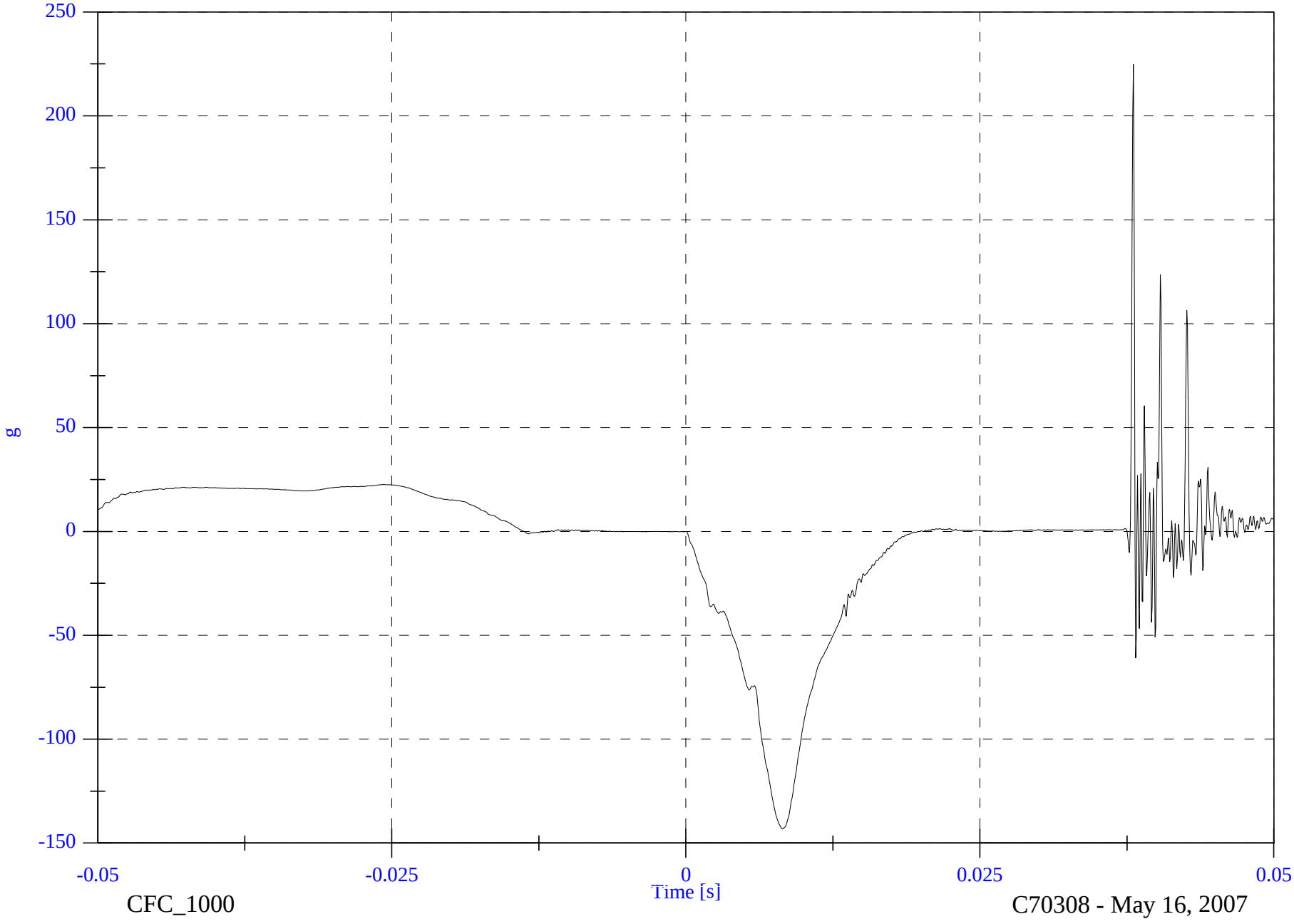
Min: 0.0 [g] at -0.072 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 224.7 [g] at 0.038 [s]
Min: -143.3 [g] at 0.008 [s]



C70308 RP2 IMPACT PLOT #1

8826-FMH-03

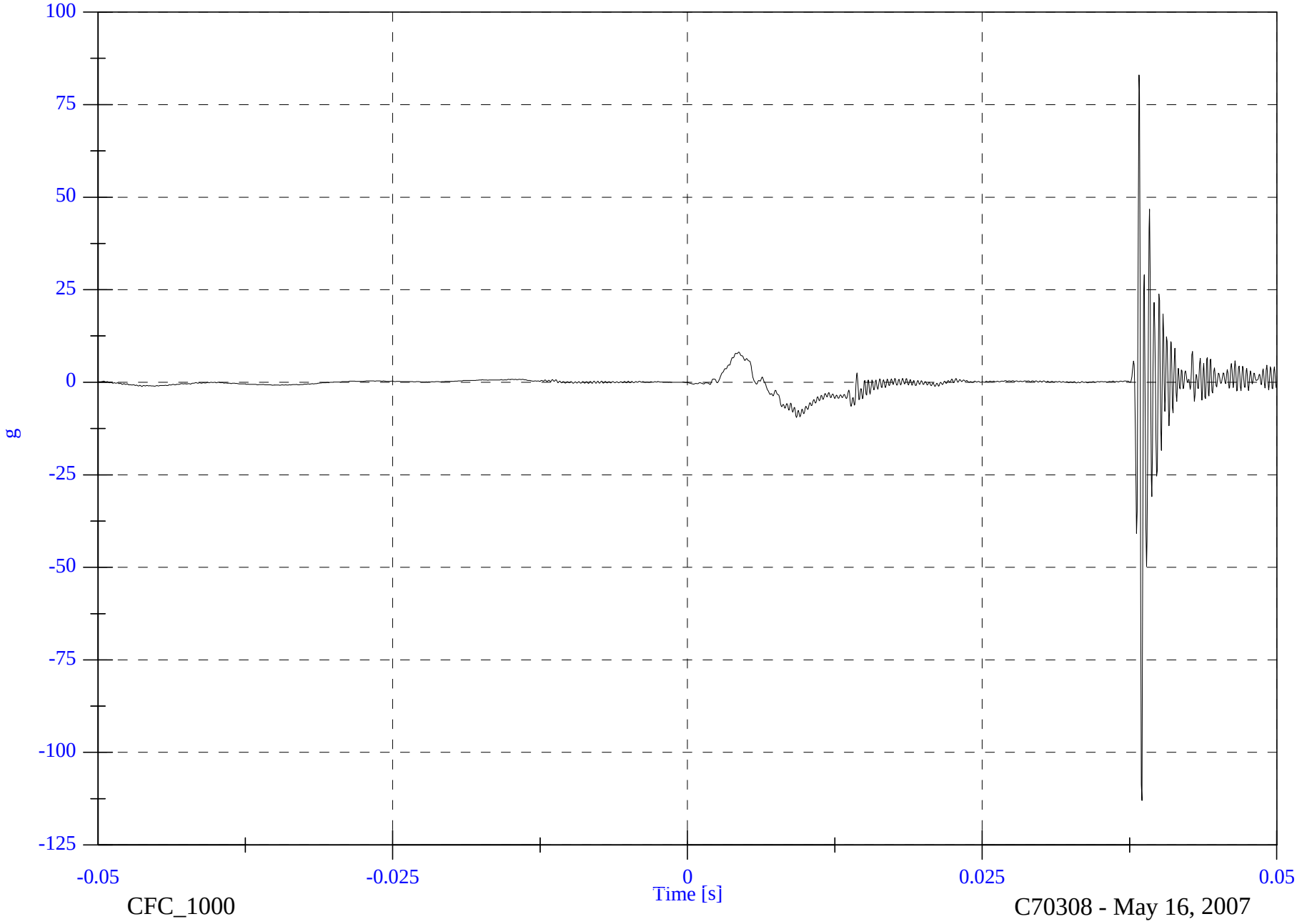
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 83.0 [g] at 0.038 [s]
Min: -113.0 [g] at 0.039 [s]



C70308 RP2 IMPACT PLOT #2

8826-FMH-03

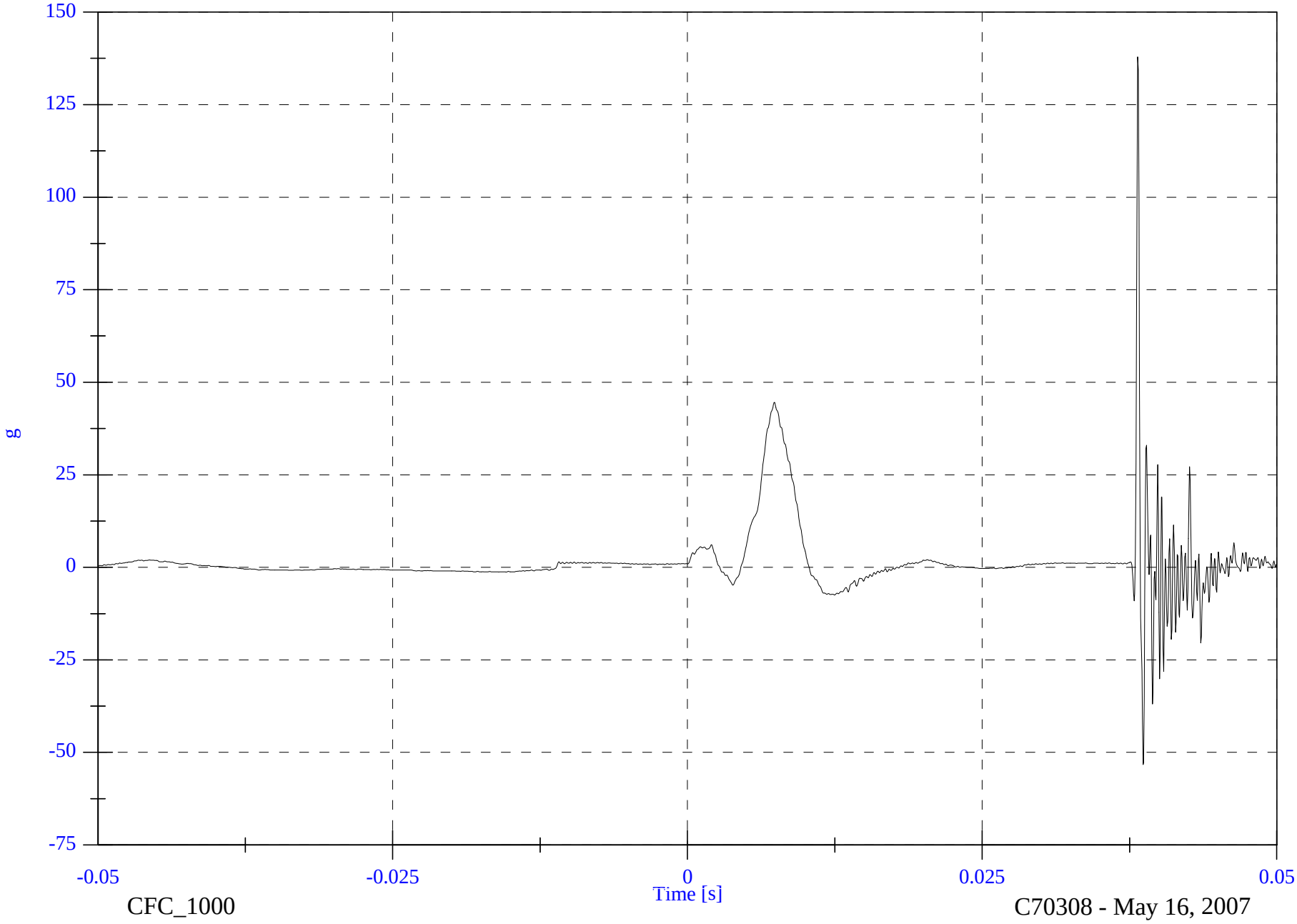
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 137.9 [g] at 0.038 [s]
Min: -53.3 [g] at 0.039 [s]



C70308 RP2 IMPACT PLOT #3

8826-FMH-03

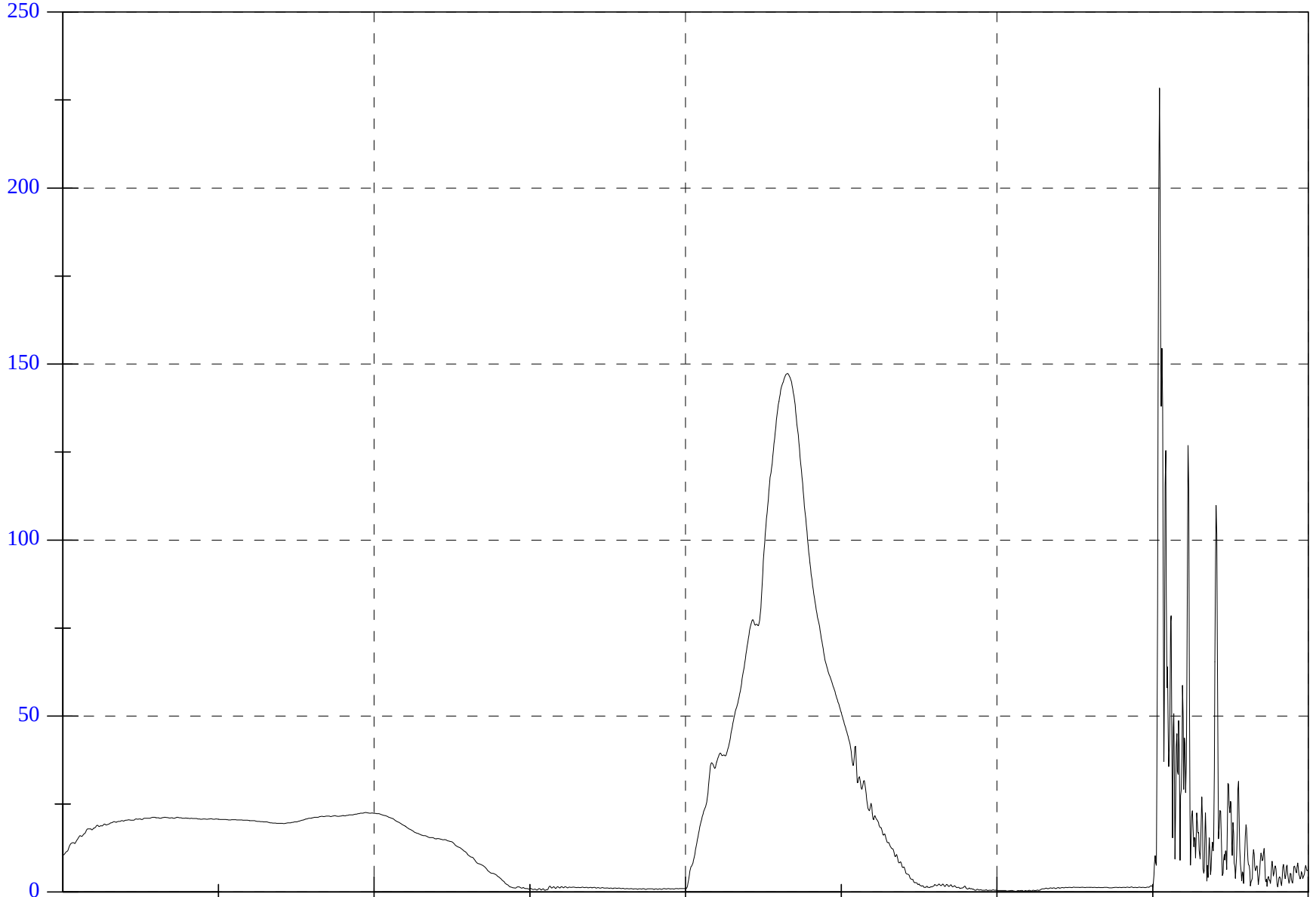
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 228.4 [g] at 0.038 [s]
Min: 0.2 [g] at 0.026 [s]



C70308 RP2 IMPACT PLOT #4

8826-FMH-03

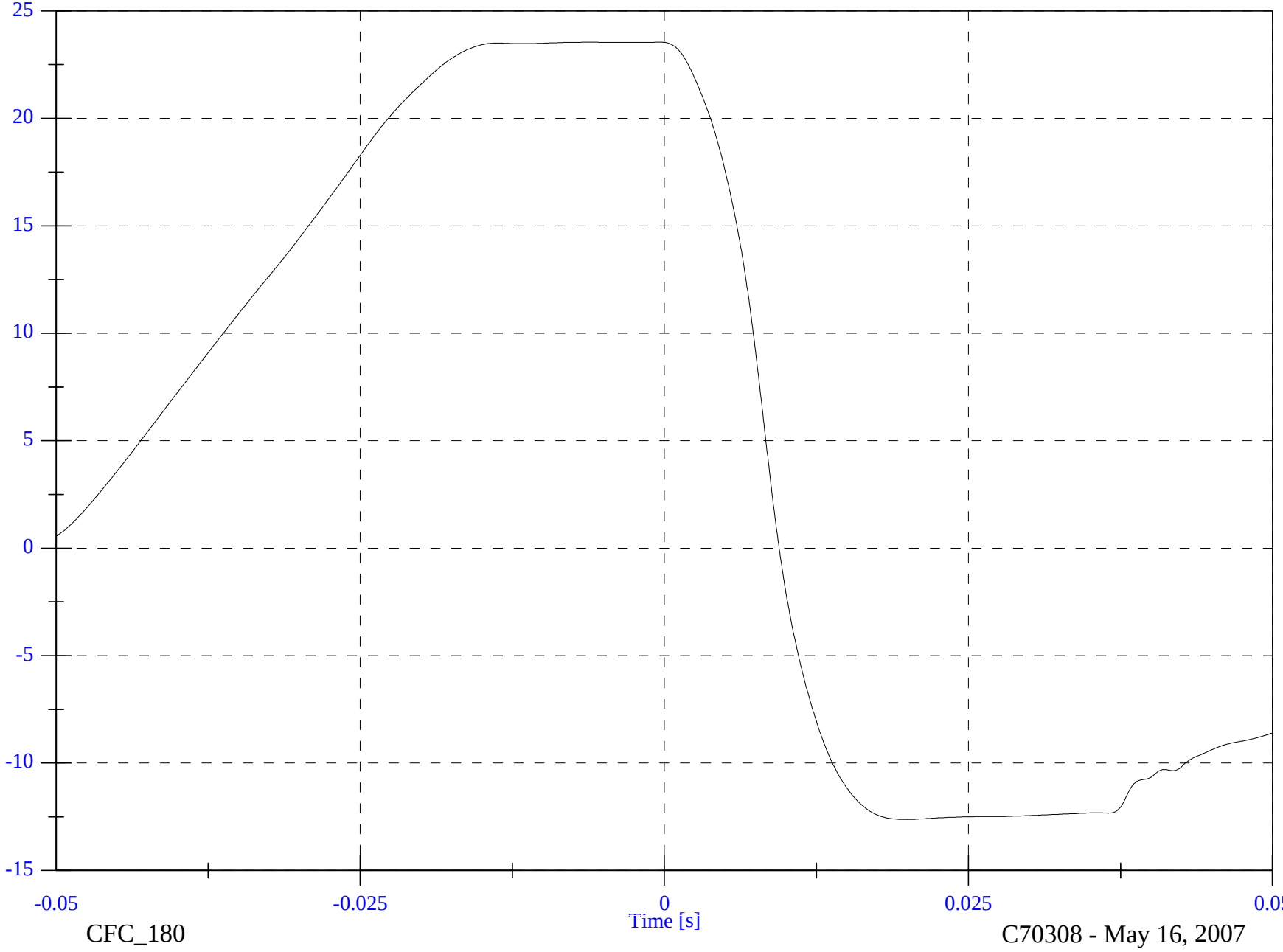
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 23.5 [KPH] at -0.000 [s]
Min: -12.6 [KPH] at 0.020 [s]



C70308 RP2 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 16, 2007

PRE-IMPACT RP2

POST-IMPACT RP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	10
Test Date:	05/16/07
Target Location:	B-PILLAR
Target Code:	BP3
Horizontal Impact Angle:	270°
Vertical Impact Angle:	-4°
Ambient Temperature:	19.9 C°
Relative Humidity:	53.8
Time of Impact:	11:40
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	31		mm right	x	mm left
On Centerline	15	mm up			

POST-IMPACT BP3 HEADFORM

Free Motion HIC	270.1
HIC(d)	370.2
Impact Velocity (kph)	23.7
HIC T1 (msec)	1.8
HIC T2 (msec)	15.3

FMVSS 201U 2007 Jeep Compass C70308 - BP3

FMH Headform 0805

Location: BP3

Test Date: May 16, 2007

Work File: BP3

----------TEST RESULTS----------

Lab Temperature: 19.9 C

Lab Humidity: -4 %

Velocity at Impact: 23.70 KPH

Free Flight Distance: 227.68 mm

Maximum: 67.4 g

HICd: 370.2

HIC (36ms): 270.1

t1: 1.8 msec

t2: 15.3 msec

Duration: 13.5 msec

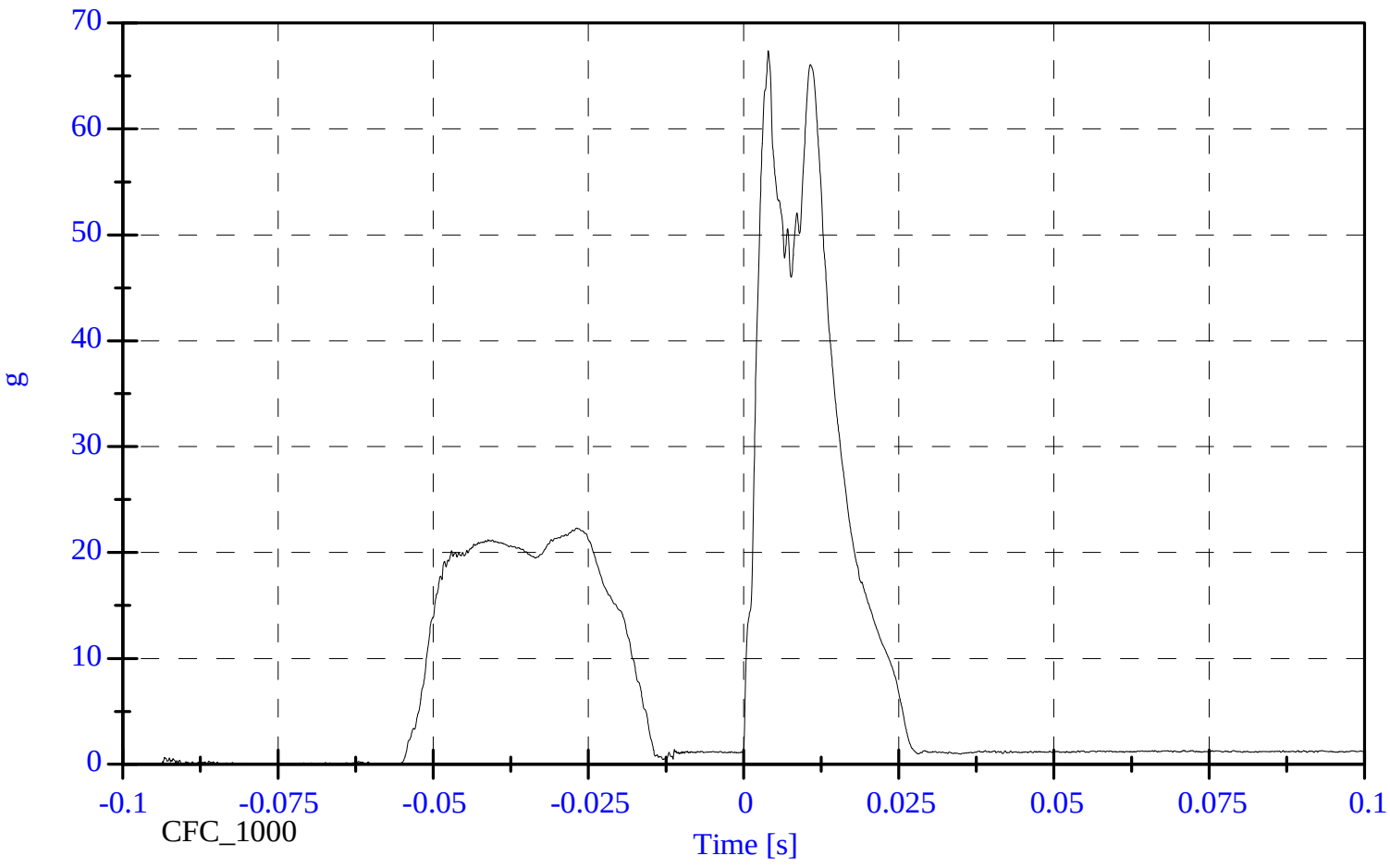
Average Acceleration: 8.4 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 67.4 [g] at 0.004 [s]

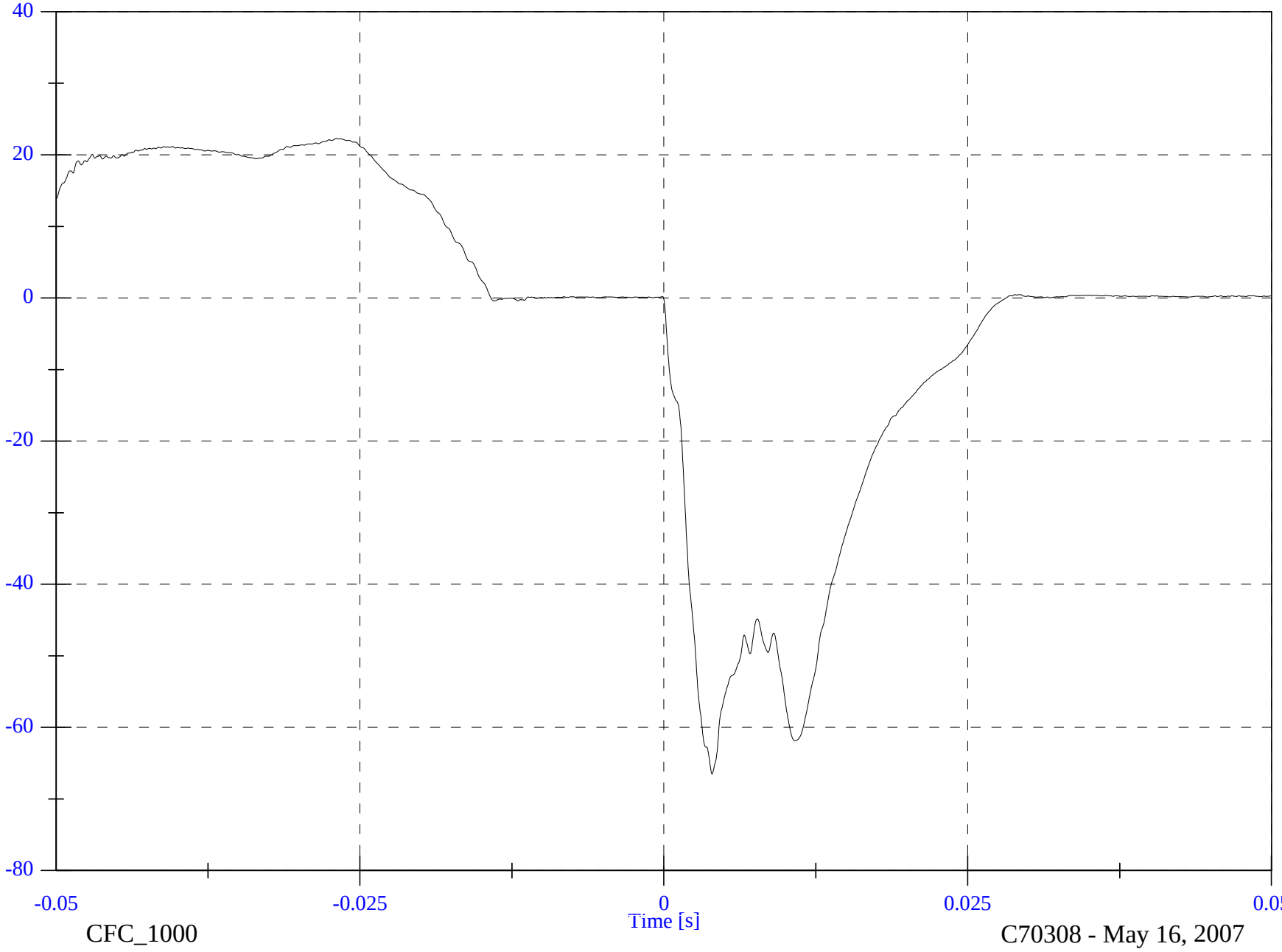
Min: 0.0 [g] at -0.096 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 22.3 [g] at -0.027 [s]
Min: -66.5 [g] at 0.004 [s]



C70308 BP3 IMPACT PLOT #1

8826-FMH-03

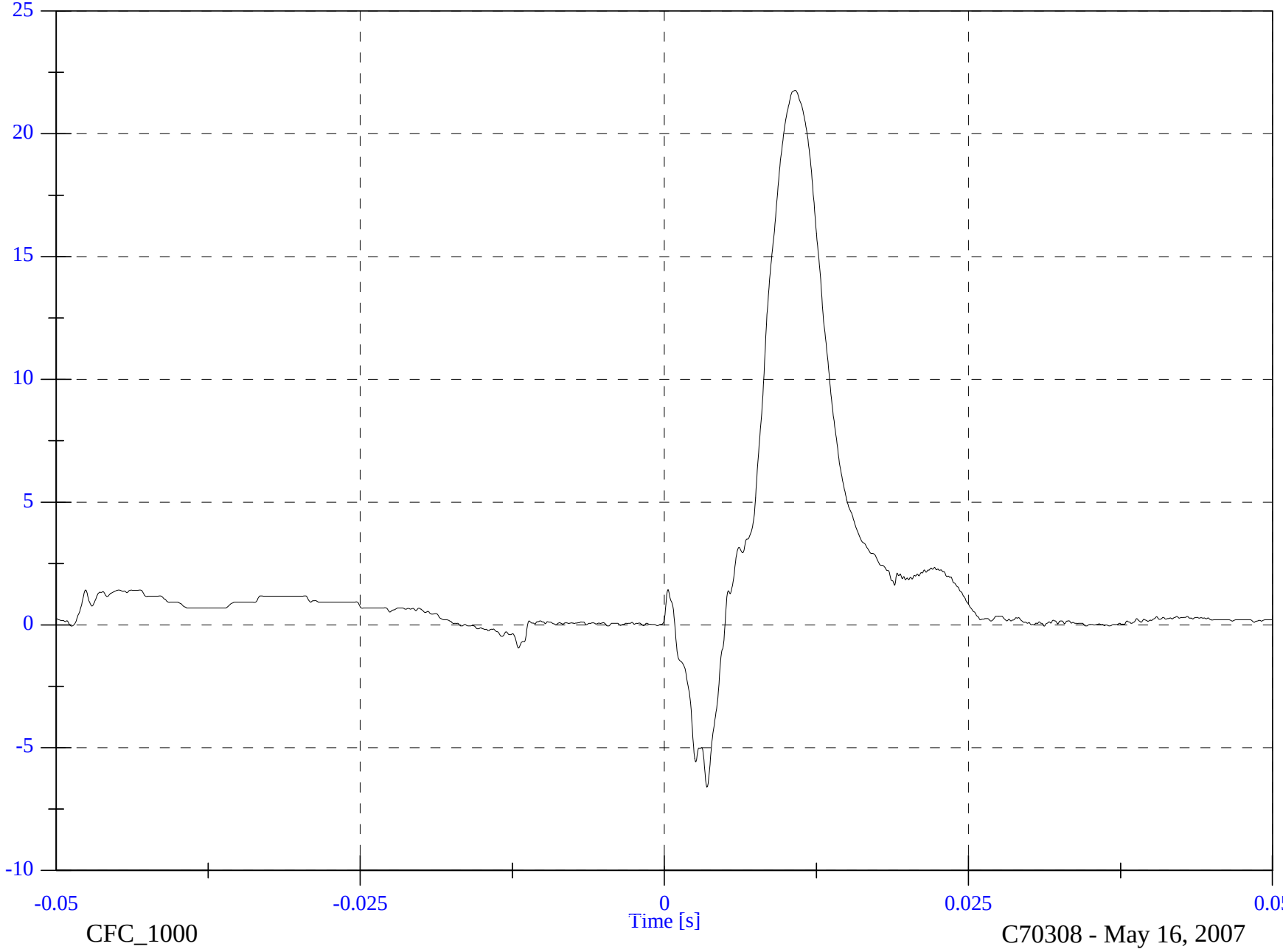
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 21.8 [g] at 0.011 [s]
Min: -6.6 [g] at 0.003 [s]



C70308 BP3 IMPACT PLOT #2

8826-FMH-03

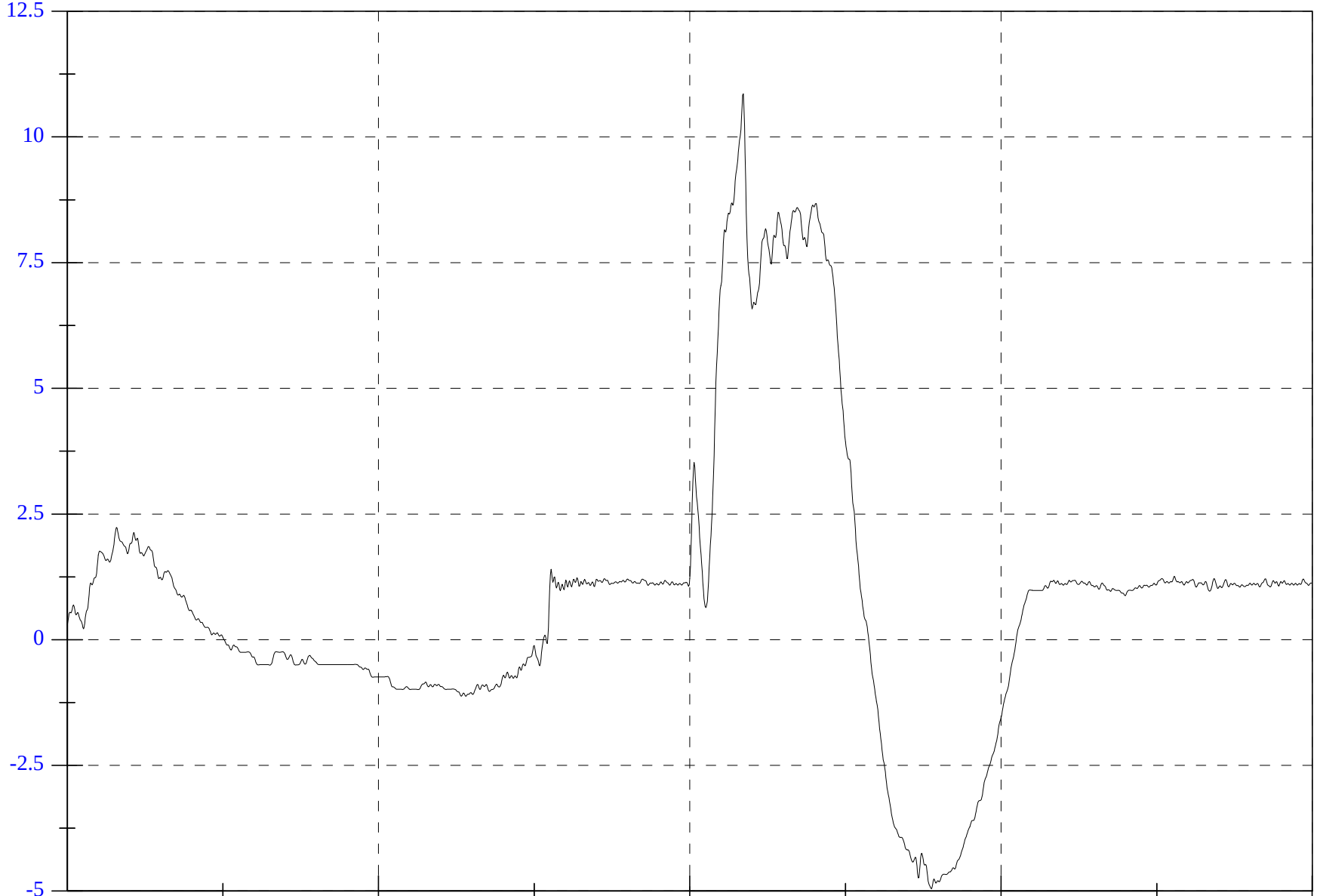
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 10.9 [g] at 0.004 [s]
Min: -5.0 [g] at 0.019 [s]



C70308 BP3 IMPACT PLOT #3

8826-FMH-03

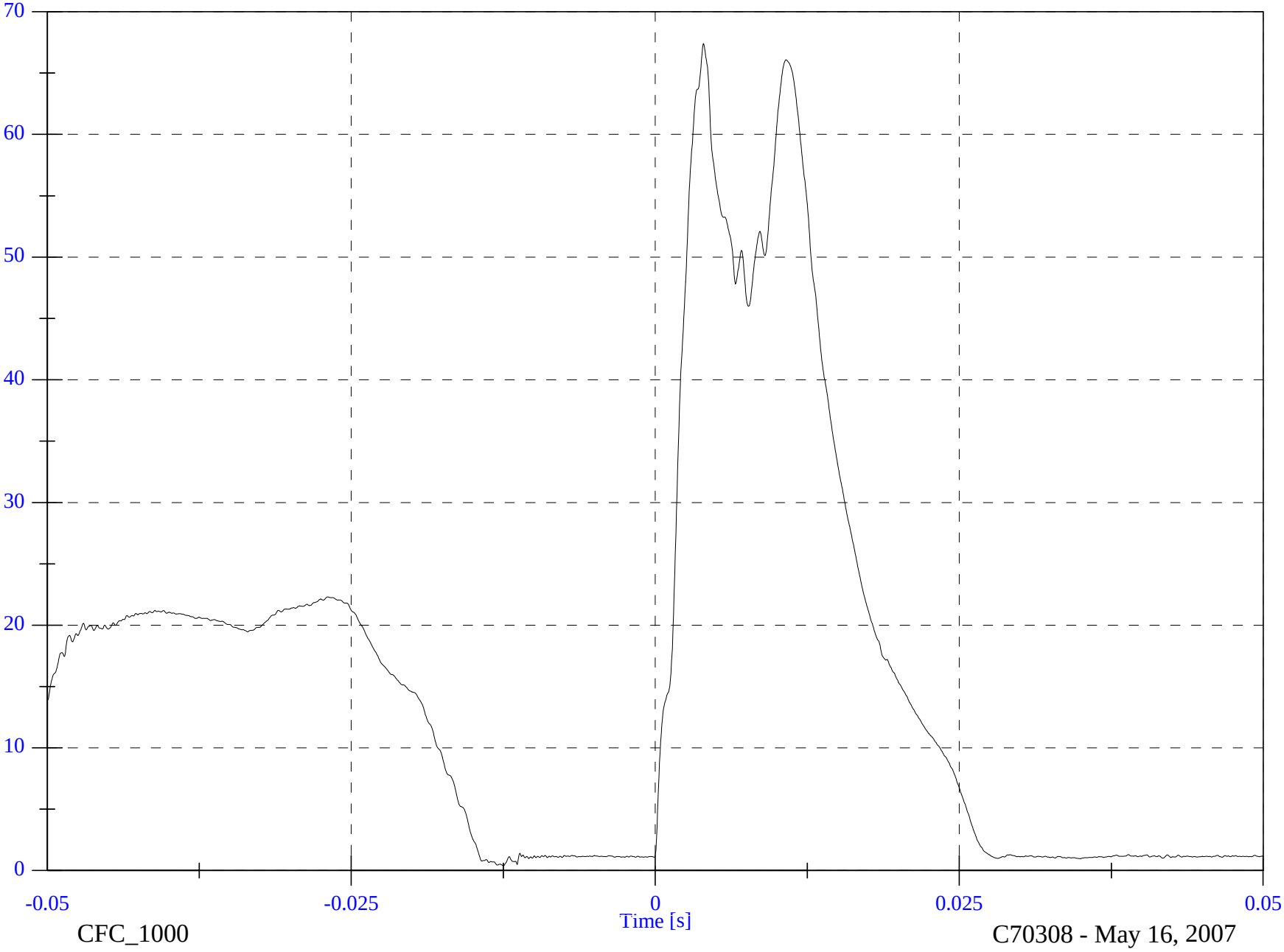
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 67.4 [g] at 0.004 [s]
Min: 0.4 [g] at -0.013 [s]



C70308 BP3 IMPACT PLOT #4

8826-FMH-03

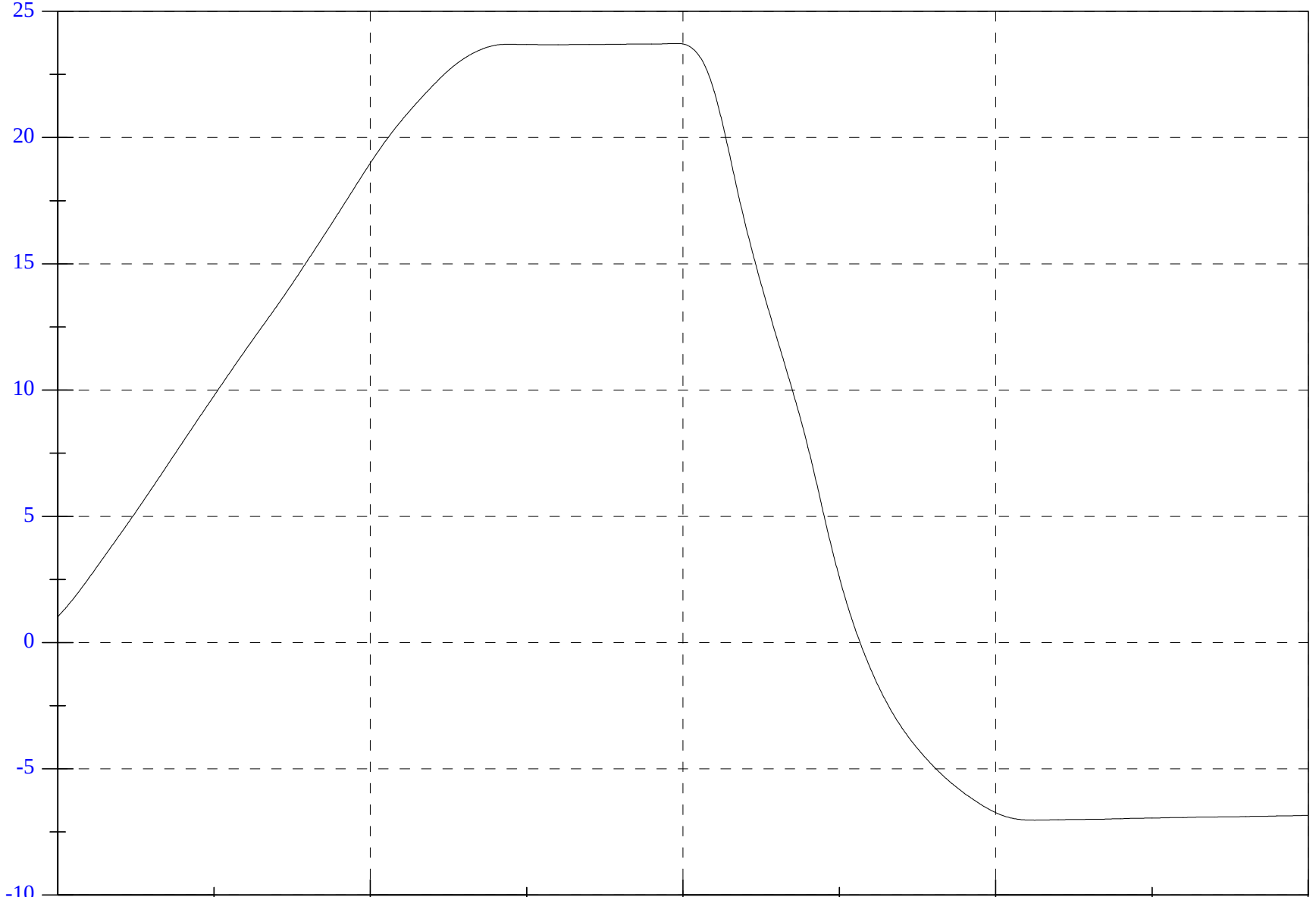
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 23.7 [KPH] at -0.001 [s]
Min: -7.0 [KPH] at 0.028 [s]



C70308 BP3 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 16, 2007

PRE-IMPACT BP3

POST-IMPACT BP3

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	11
Test Date:	05/16/07
Target Location:	UPPER ROOF
Target Code:	URBP
Horizontal Impact Angle:	270°
Vertical Impact Angle:	50°
Ambient Temperature:	20.8 C°
Relative Humidity:	48.3
Time of Impact:	13:15
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	7		mm right	x	mm left
On Centerline	36	mm up			

POST-IMPACT URBPHEADFORM

Free Motion HIC	540.6
HIC(d)	574.3
Impact Velocity (kph)	23.64
HIC T1 (msec)	3.0
HIC T2 (msec)	12.6

FMVSS 201U 2007 Jeep Compass C70308 - URBP

FMH Headform 642

Test Date: May 16, 2007

Location: URBP

Work File: URBP

----------TEST RESULTS----------

Lab Temperature: 20.8 C

Lab Humidity: 48.3 %

Velocity at Impact: 23.64 KPH

Free Flight Distance: 219.23 mm

Maximum: 94.0 g

HICd: 574.3

HIC (36ms): 540.6

t1: 3.0 msec

t2: 12.6 msec

Duration: 9.6 msec

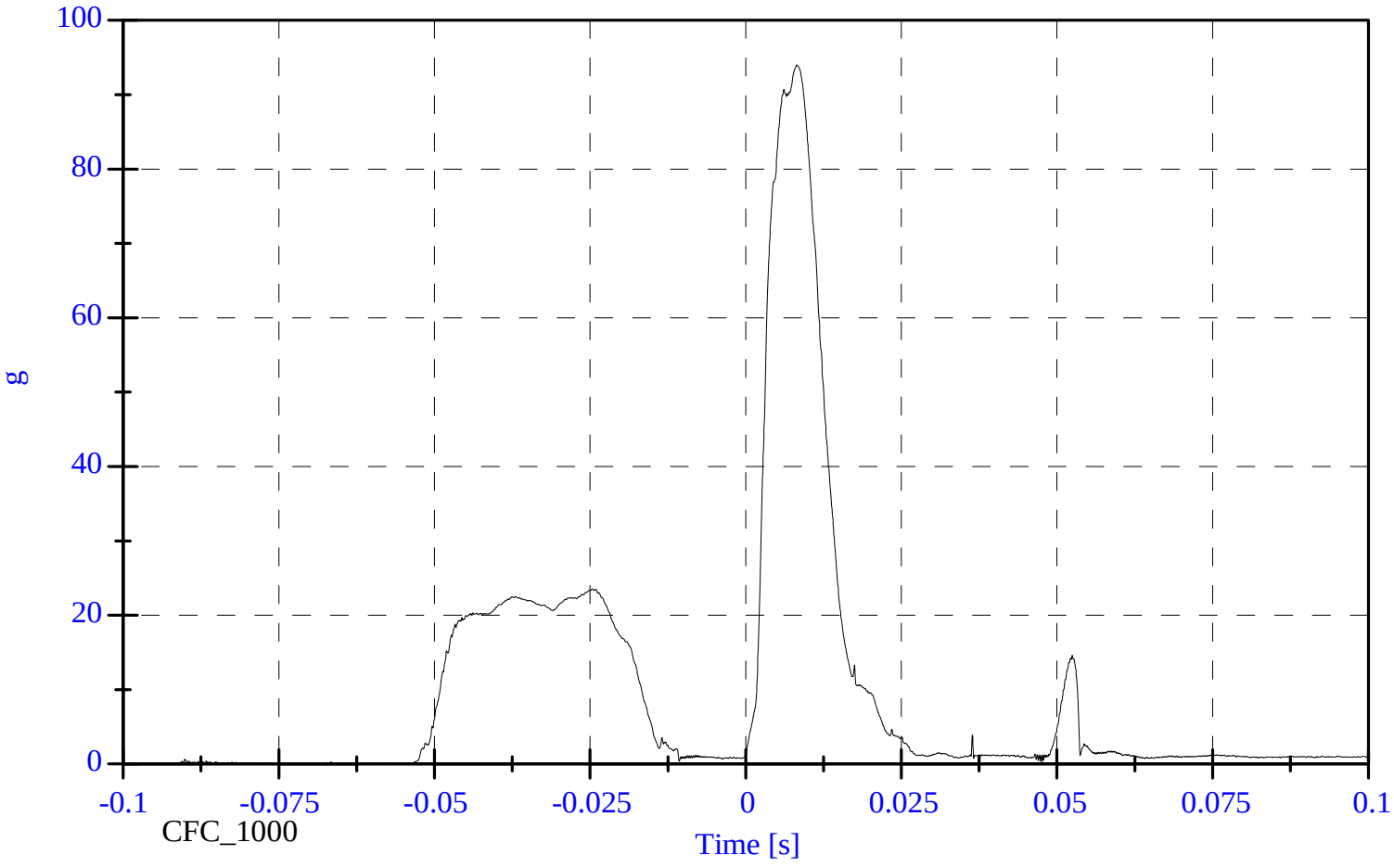
Average Acceleration: 9.1 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 94.0 [g] at 0.008 [s]

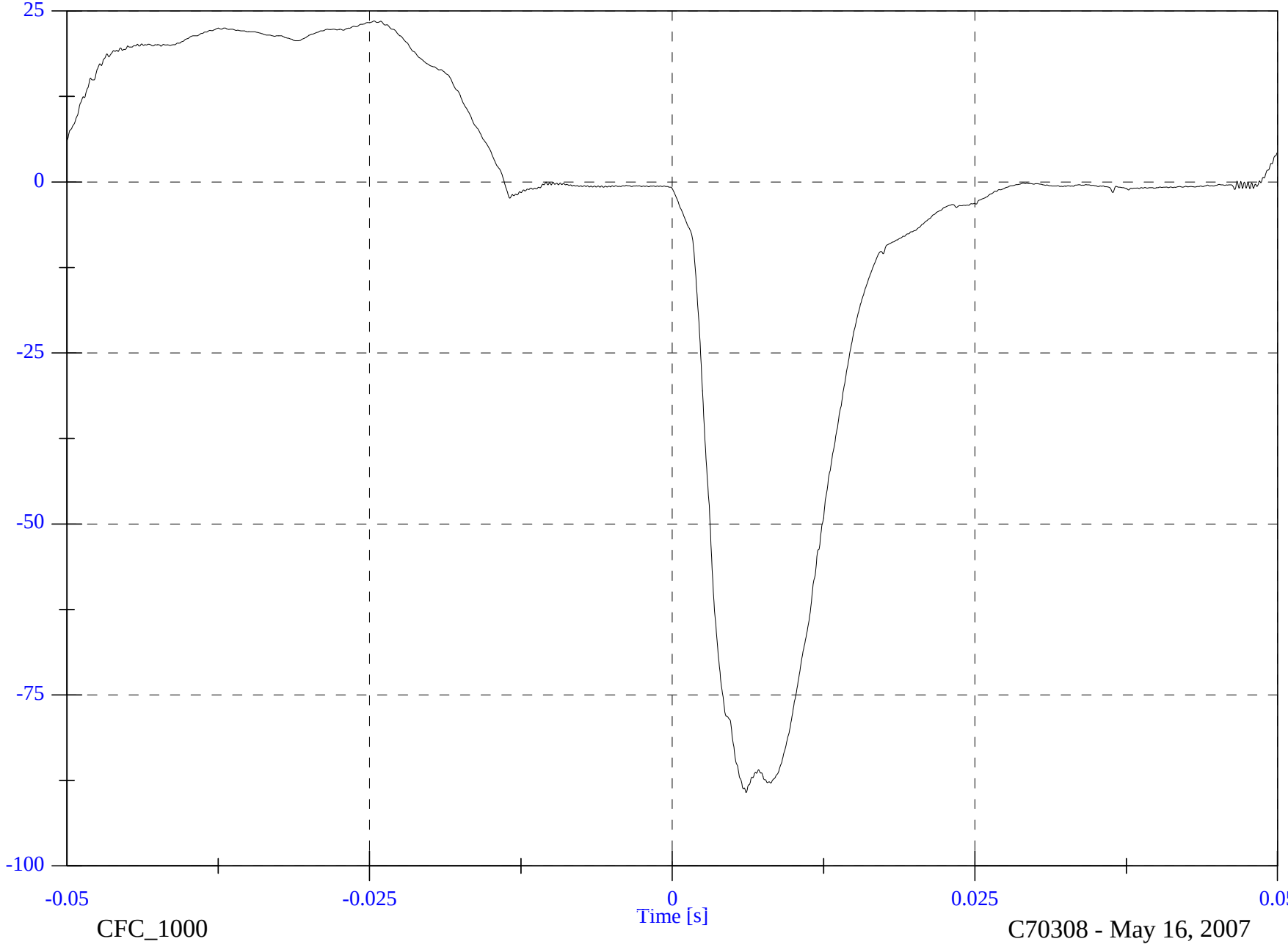
Min: 0.0 [g] at -0.073 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 23.5 [g] at -0.025 [s]
Min: -89.3 [g] at 0.006 [s]



C70308 URBP IMPACT PLOT #1

8826-FMH-03

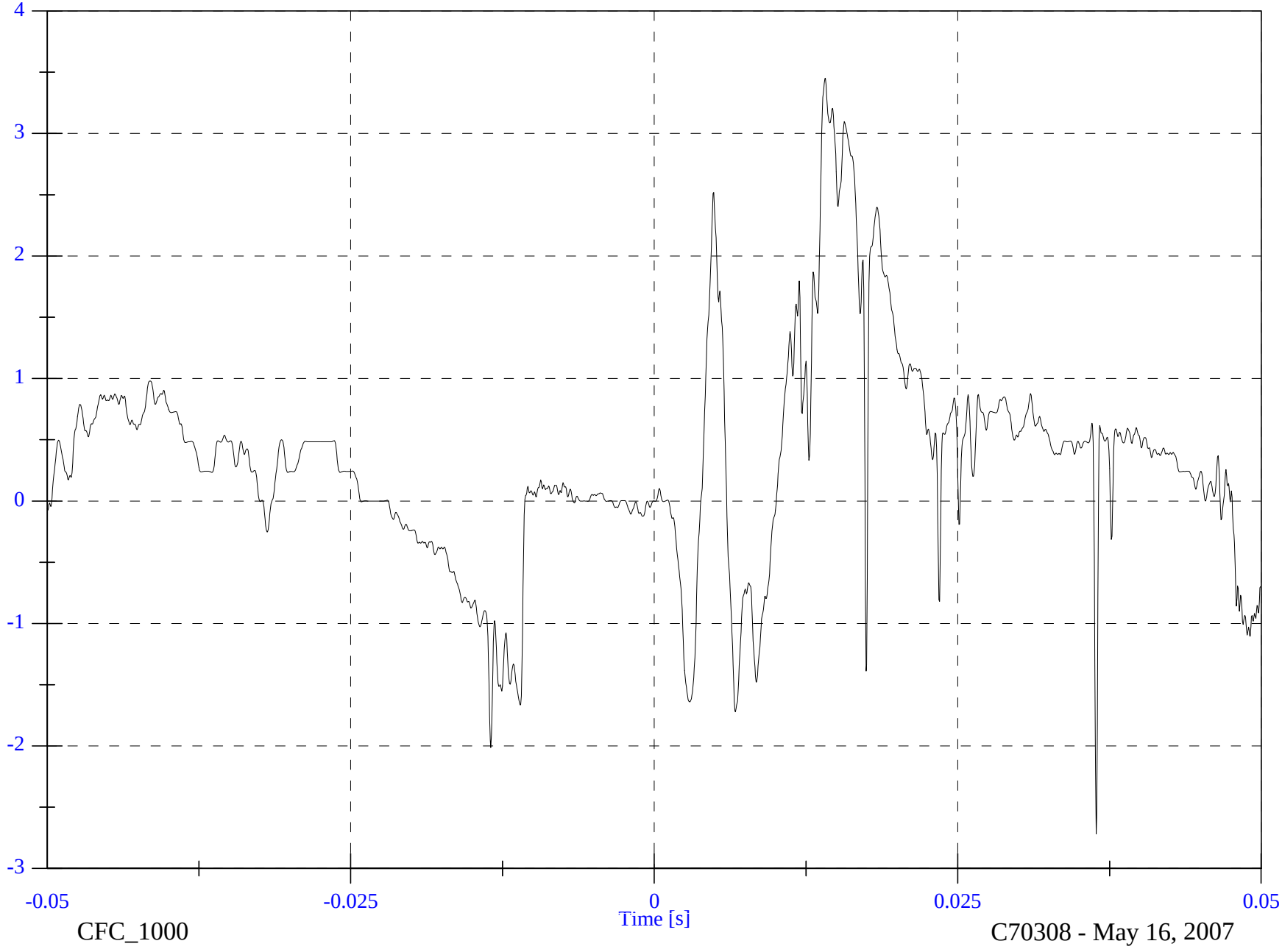
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 3.4 [g] at 0.014 [s]
Min: -2.7 [g] at 0.036 [s]



C70308 URBP IMPACT PLOT #2

8826-FMH-03

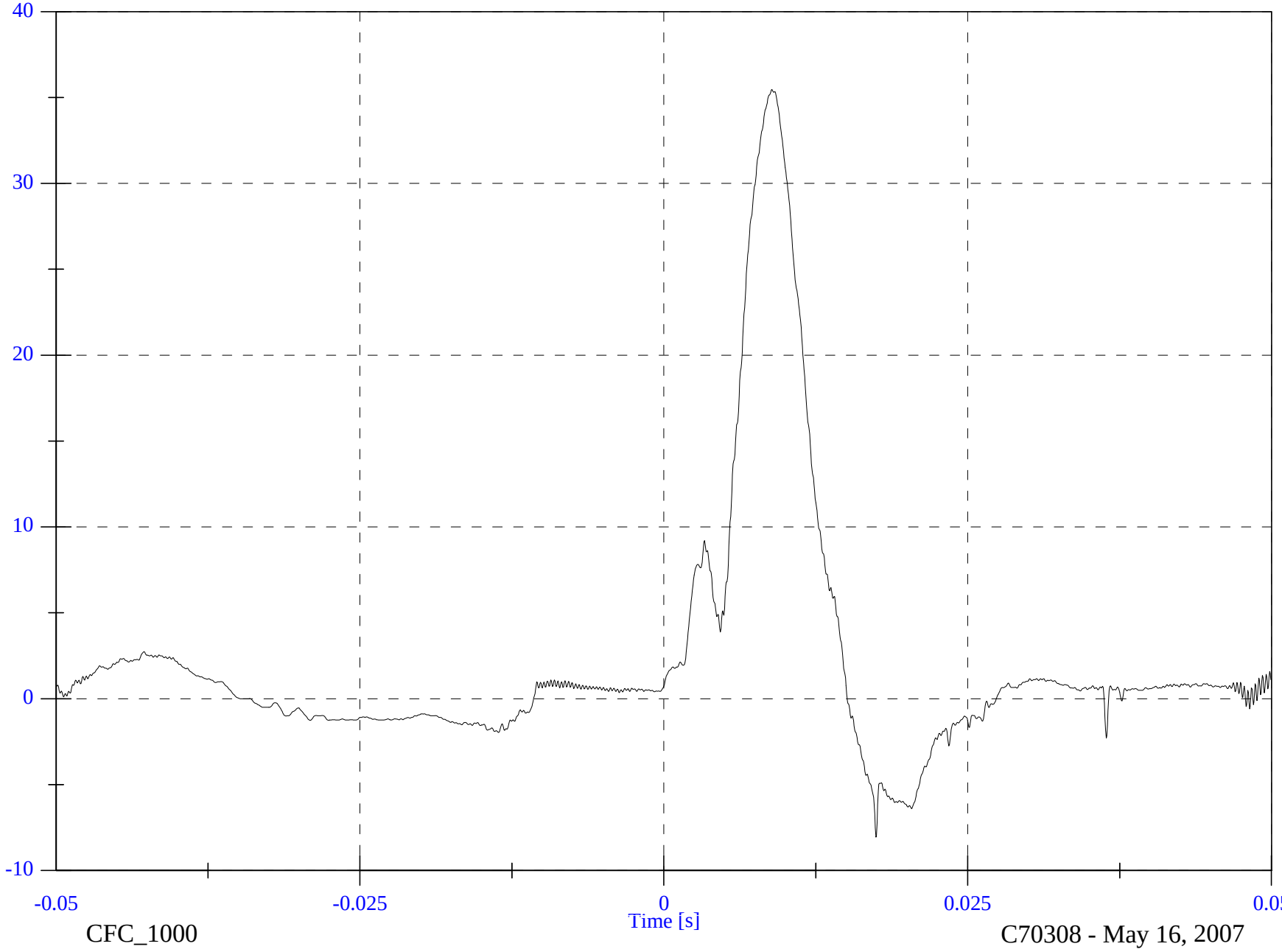
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 35.5 [g] at 0.009 [s]
Min: -8.1 [g] at 0.017 [s]



C70308 URBP IMPACT PLOT #3

8826-FMH-03

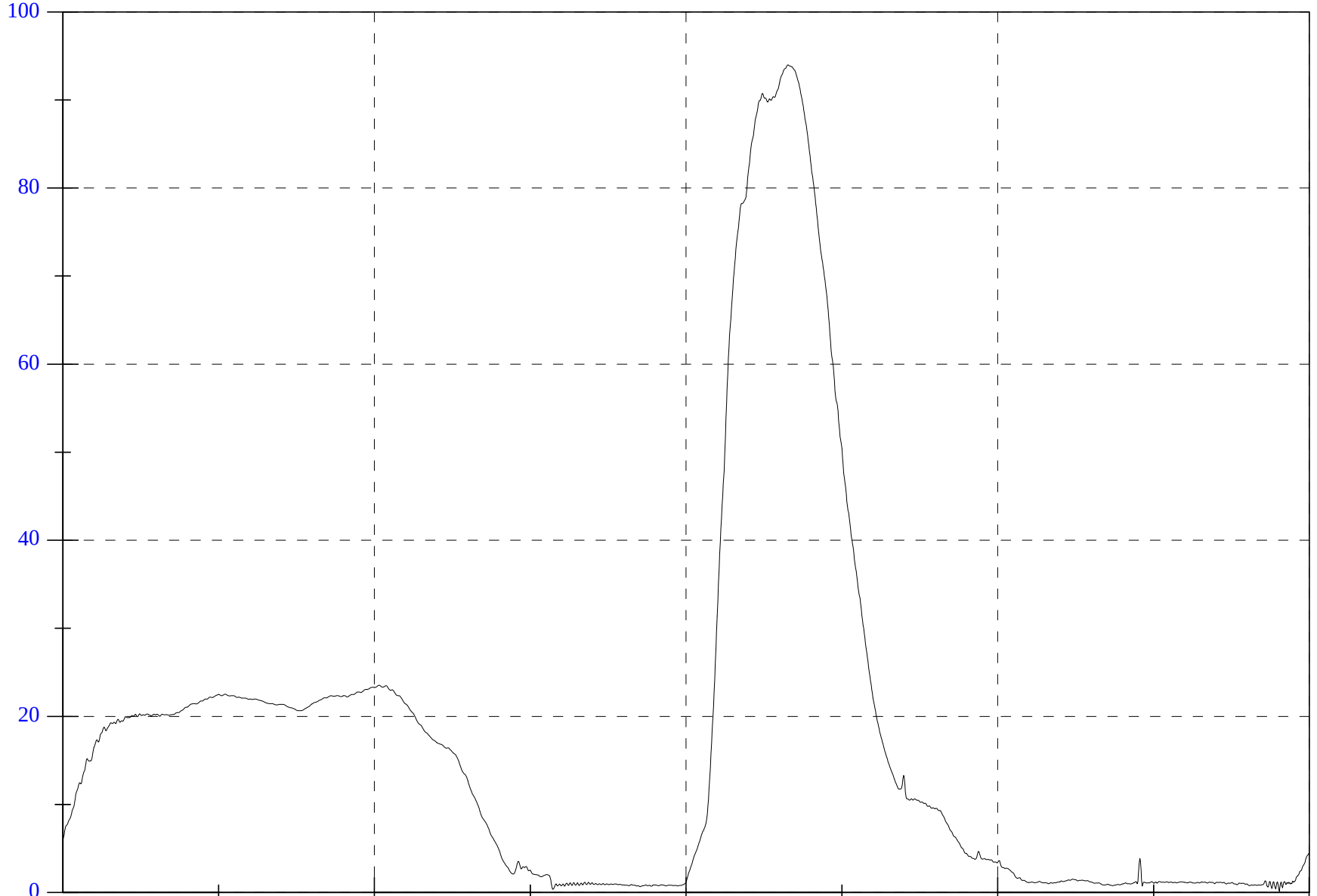
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 94.0 [g] at 0.008 [s]
Min: 0.2 [g] at 0.048 [s]



C70308 URBP IMPACT PLOT #4

8826-FMH-03

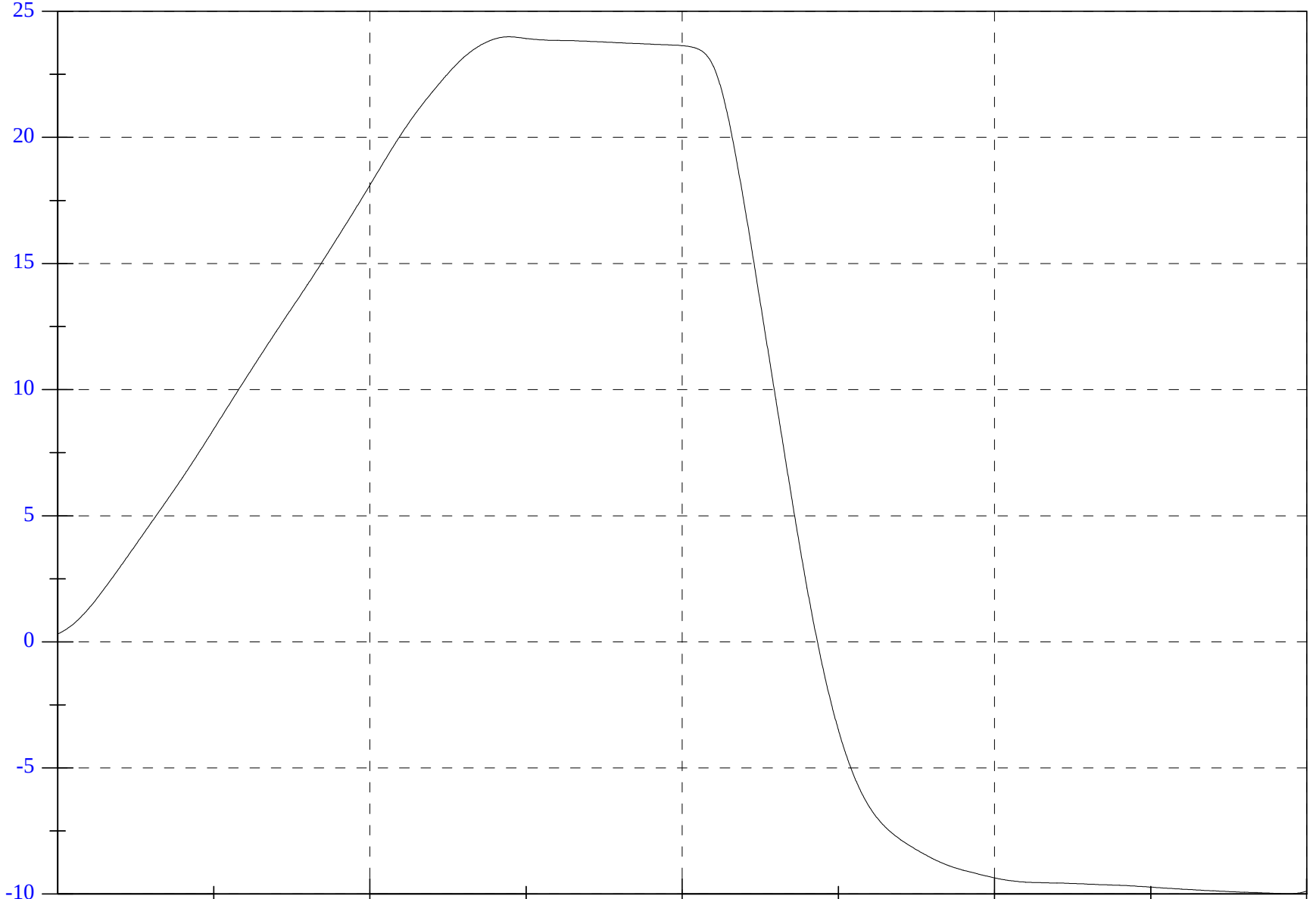
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 24.0 [KPH] at -0.014 [s]
Min: -10.0 [KPH] at 0.048 [s]



C70308 URBP IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 16, 2007

PRE-IMPACT URBP

POST-IMPACT URBP

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Jeep Compass, Sport 4x4
VIN:	1J8FF47W17D205199
DATE OF MANUFACTURE:	01/07 (SEE CERTIFICATION LABEL)
COLOR:	Green

Test Number:	12
Test Date:	05/16/07
Target Location:	A-PILLAR
Target Code:	AP2
Horizontal Impact Angle:	216°
Vertical Impact Angle:	44°
Ambient Temperature:	21.0 C°
Relative Humidity:	47.6
Time of Impact:	13:45
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	4	x	mm right		mm left
On Centerline	13	mm up			

POST-IMPACT AP2 HEADFORM

Free Motion HIC	445.7
HIC(d)	502.7
Impact Velocity (kph)	18.84
HIC T1 (msec)	3.1
HIC T2 (msec)	10.0

FMVSS 201U 2007 Jeep Compass C70308 - AP2

FMH Headform 0062

Test Date: May 16, 2007

Location: AP2

Work File: AP2

----------TEST RESULTS----------

Lab Temperature: 21.0 C

Lab Humidity: 47.6 %

Velocity at Impact: 18.84 KPH

Free Flight Distance: 220.38 mm

Maximum: 105.0 g

HICd: 502.7

HIC (36ms): 445.7

t1: 3.1 msec

t2: 10.0 msec

Duration: 6.9 msec

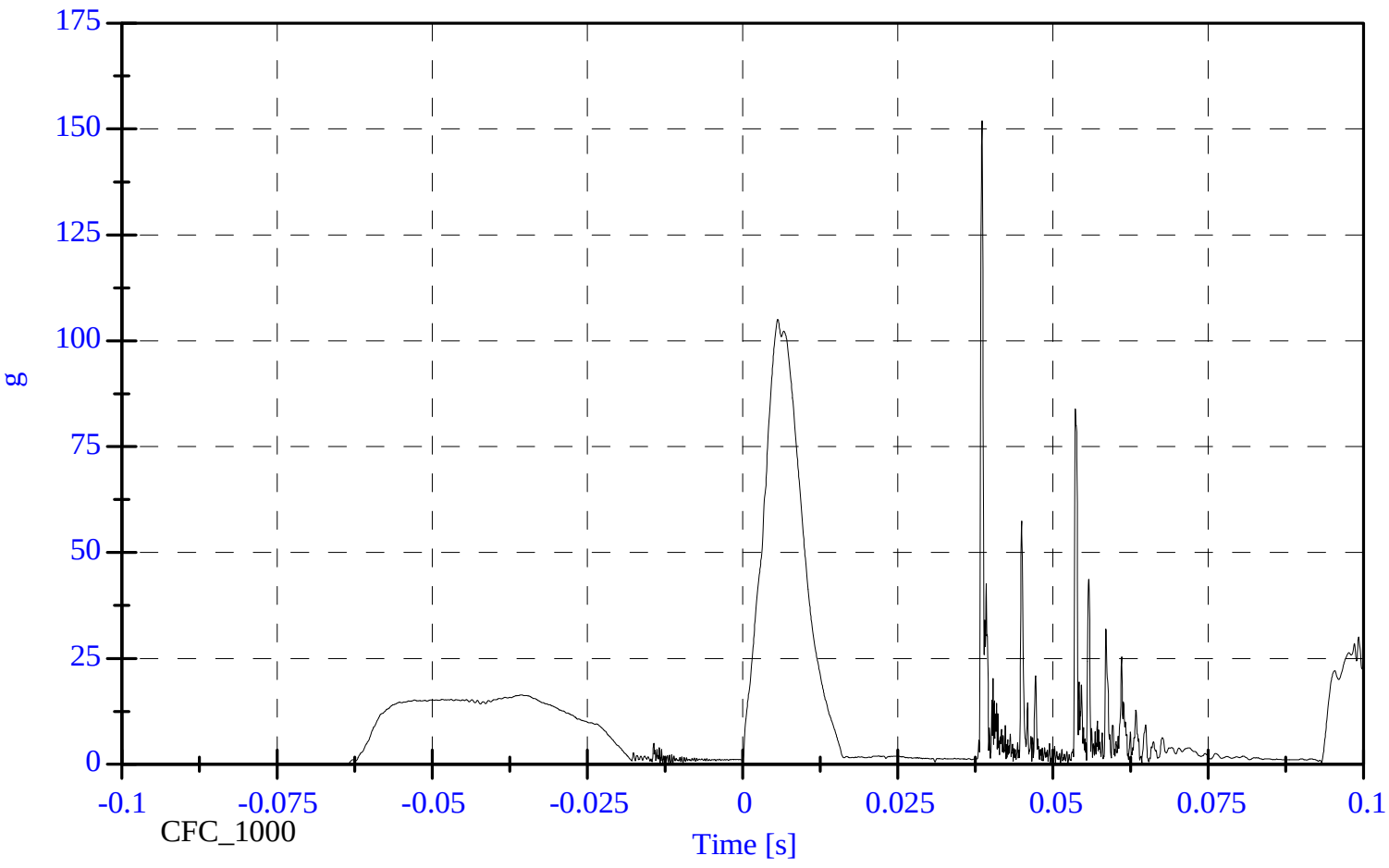
Average Acceleration: 9.5 g

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 105.0 [g] at 0.006 [s]

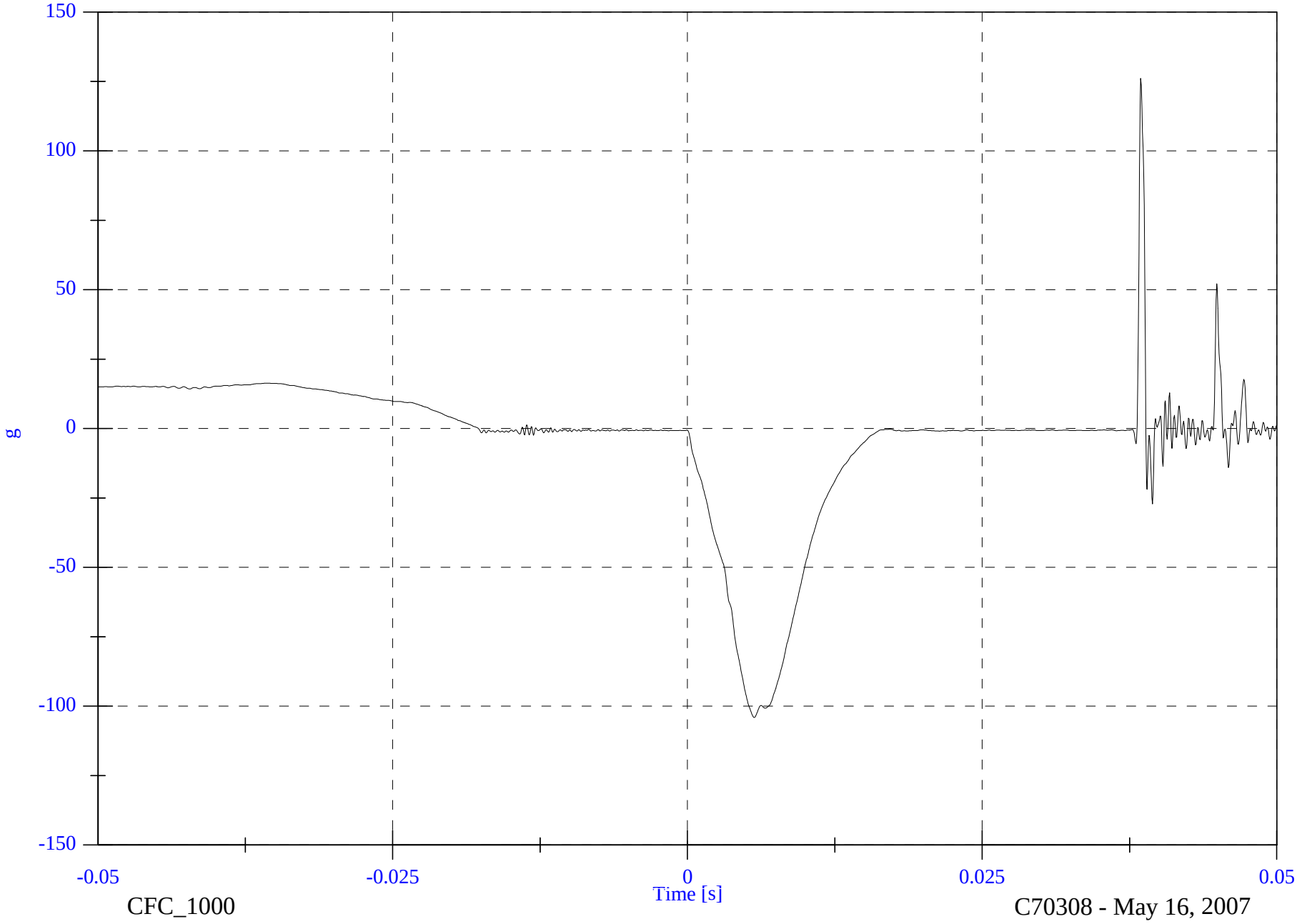
Min: 0.0 [g] at -0.097 [s]



FMVSS 201U 2007 Jeep Compass

Headform X Acceleration

Max: 126.1 [g] at 0.038 [s]
Min: -104.1 [g] at 0.006 [s]



C70308 AP2 IMPACT PLOT #1

8826-FMH-03

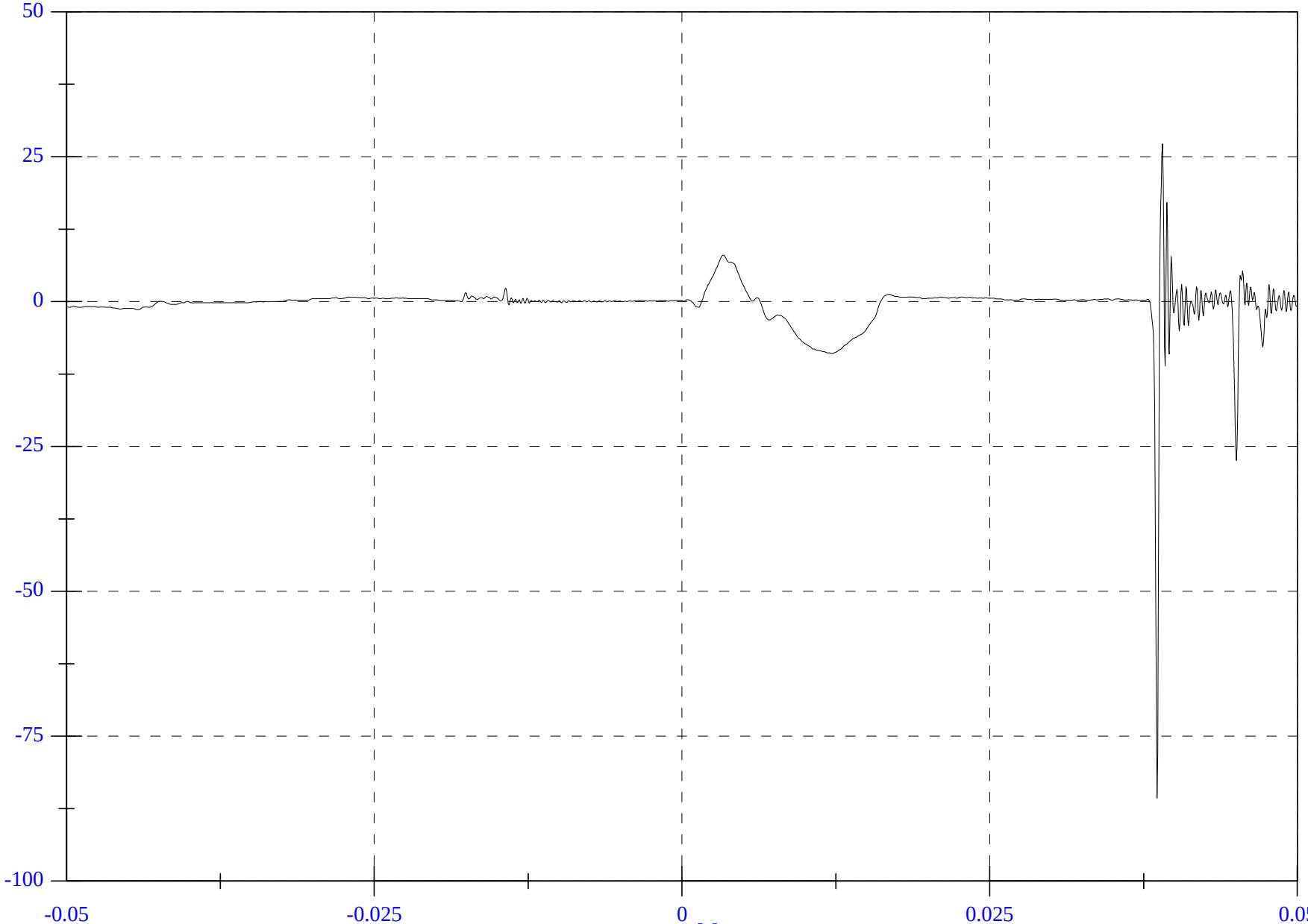
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Y Acceleration

Max: 27.3 [g] at 0.039 [s]
Min: -85.7 [g] at 0.039 [s]



C70308 AP2 IMPACT PLOT #2

8826-FMH-03

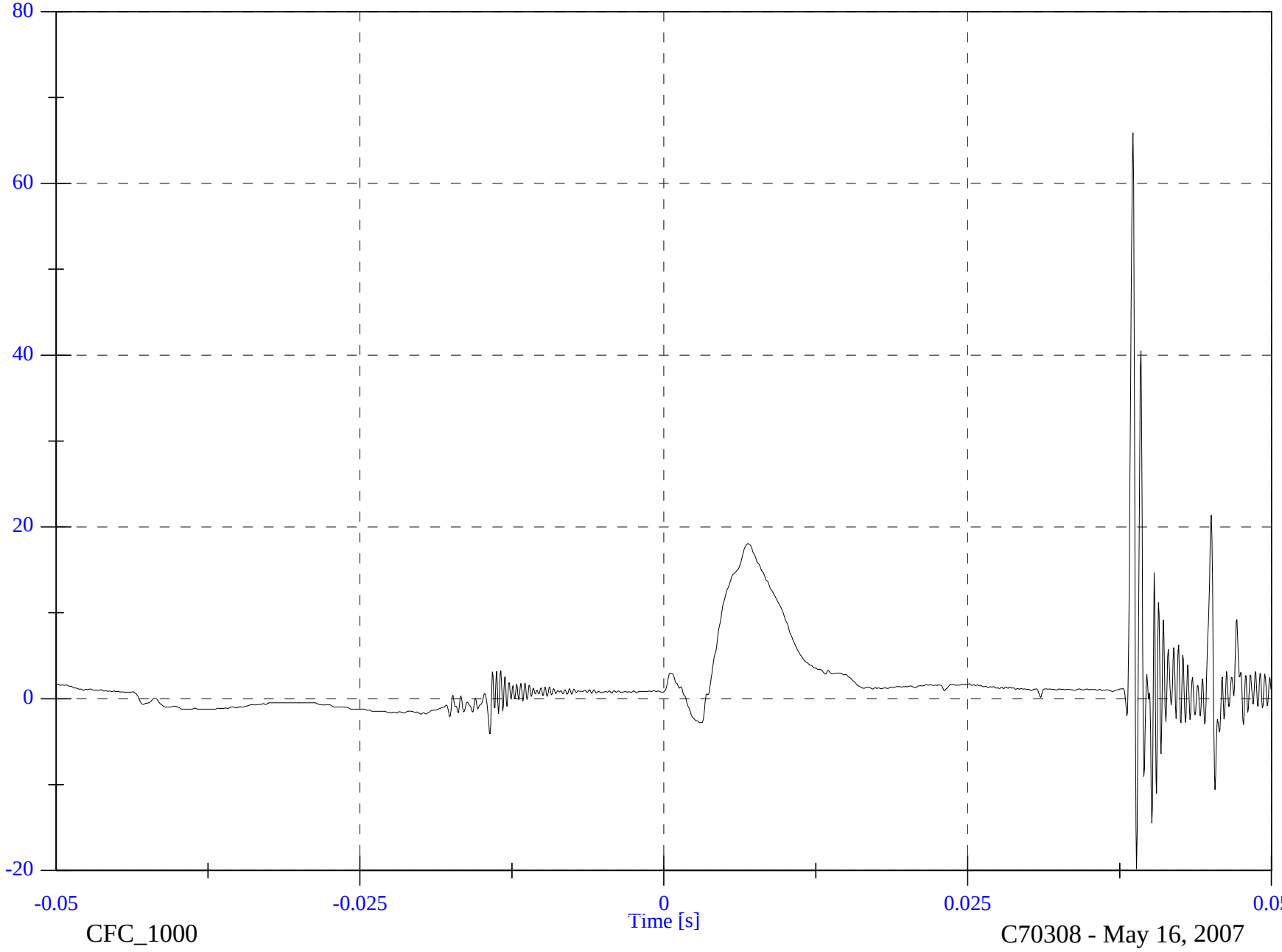
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Z Acceleration

Max: 65.9 [g] at 0.039 [s]
Min: -19.8 [g] at 0.039 [s]



C70308 AP2 IMPACT PLOT #3

8826-FMH-03

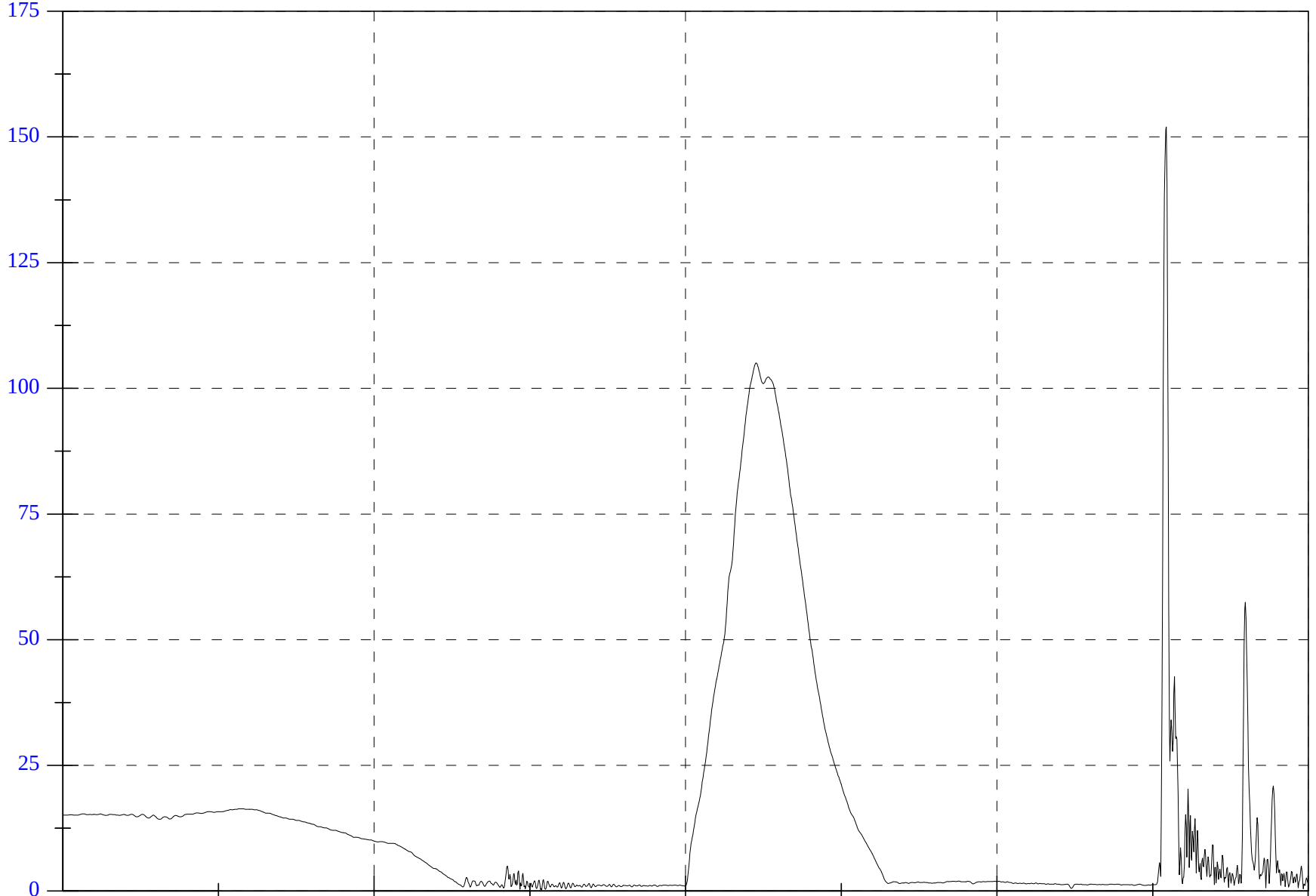
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Resultant

Max: 152.0 [g] at 0.039 [s]
Min: 0.2 [g] at -0.012 [s]



C70308 AP2 IMPACT PLOT #4

8826-FMH-03

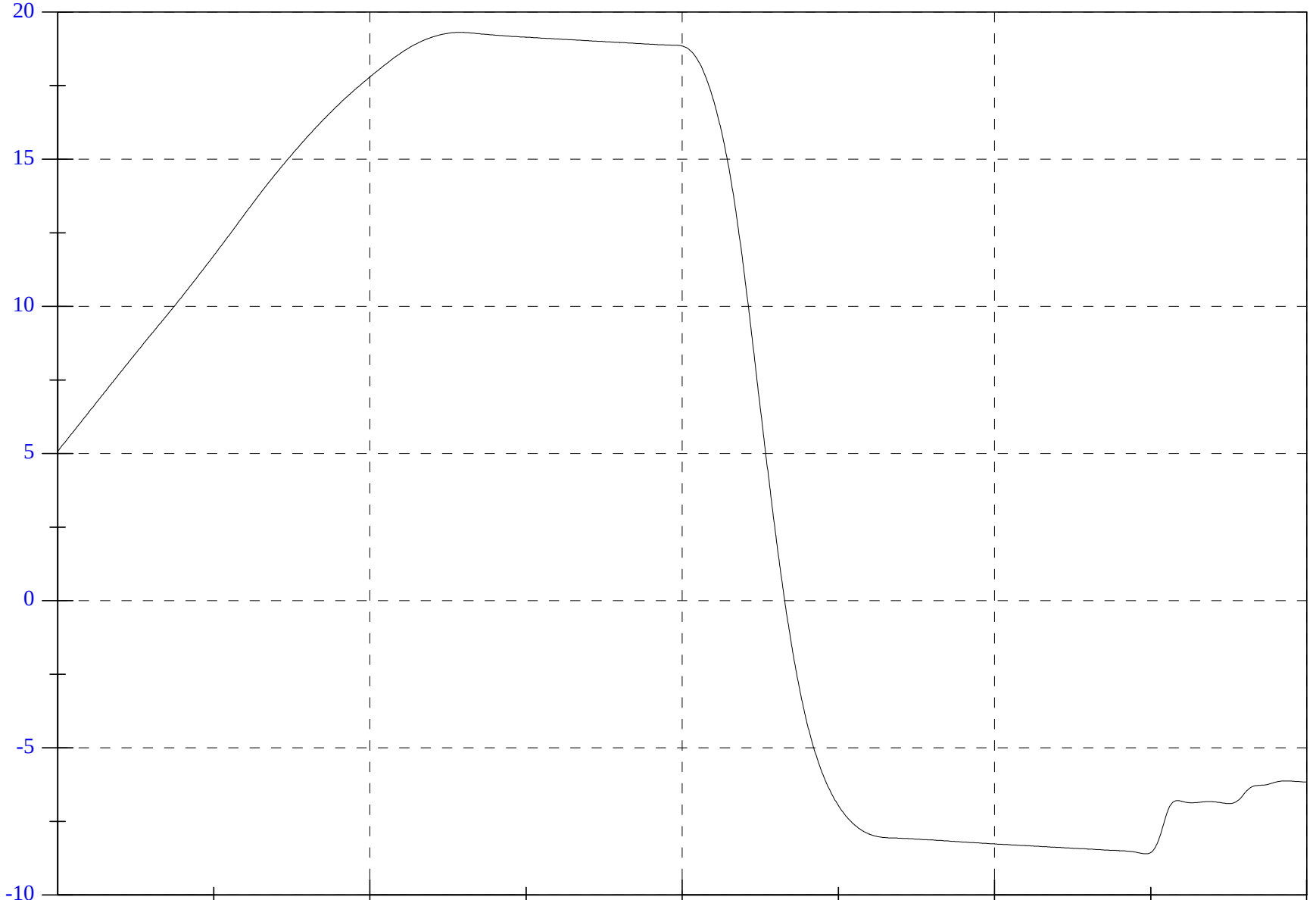
CFC_1000

C70308 - May 16, 2007

FMVSS 201U 2007 Jeep Compass

Headform Velocity

Max: 19.3 [KPH] at -0.018 [s]
Min: -8.6 [KPH] at 0.037 [s]



C70308 AP2 IMPACT PLOT #5

8826-FMH-03

CFC_180

C70308 - May 16, 2007

PRE-IMPACT AP2

POST-IMPACT AP2

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 RIGHT SIDE OF VEHICLE
A-4	3/4 REAR VIEW FROM LEFT 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 OTHER PILLAR
A-12	PRE-TEST DRIVER SIDE REAR PILLAR
A-13	PRE-TEST PASSENGER SIDE A-PILLAR
A-14	PRE-TEST PASSENGER SIDE FRONT HEADER
A-15	PRE-TEST PASSENGER SIDE SIDE RAIL
A-16	PRE-TEST PASSENGER SIDE B-PILLAR
A-17	PRE-TEST PASSENGER SIDE OTHER PILLAR
A-18	PRE-TEST PASSENGER SIDE REAR PILLAR
A-19	POST-TEST DRIVER SIDE A-PILLAR
A-20	POST-TEST DRIVER SIDE FRONT HEADER
A-21	POST-TEST DRIVER SIDE SIDE RAIL
A-22	POST-TEST DRIVER SIDE B-PILLAR
A-23	POST-TEST DRIVER SIDE OTHER PILLAR
A-24	POST-TEST DRIVER SIDE REAR PILLAR
A-25	POST-TEST PASSENGER SIDE A-PILLAR
A-26	POST-TEST PASSENGER SIDE FRONT HEADER
A-27	POST-TEST PASSENGER SIDE SIDE RAIL
A-28	POST-TEST PASSENGER SIDE B-PILLAR
A-29	POST-TEST PASSENGER SIDE OTHER PILLAR
A-30	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 RIGHT SIDE OF VEHICLE

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

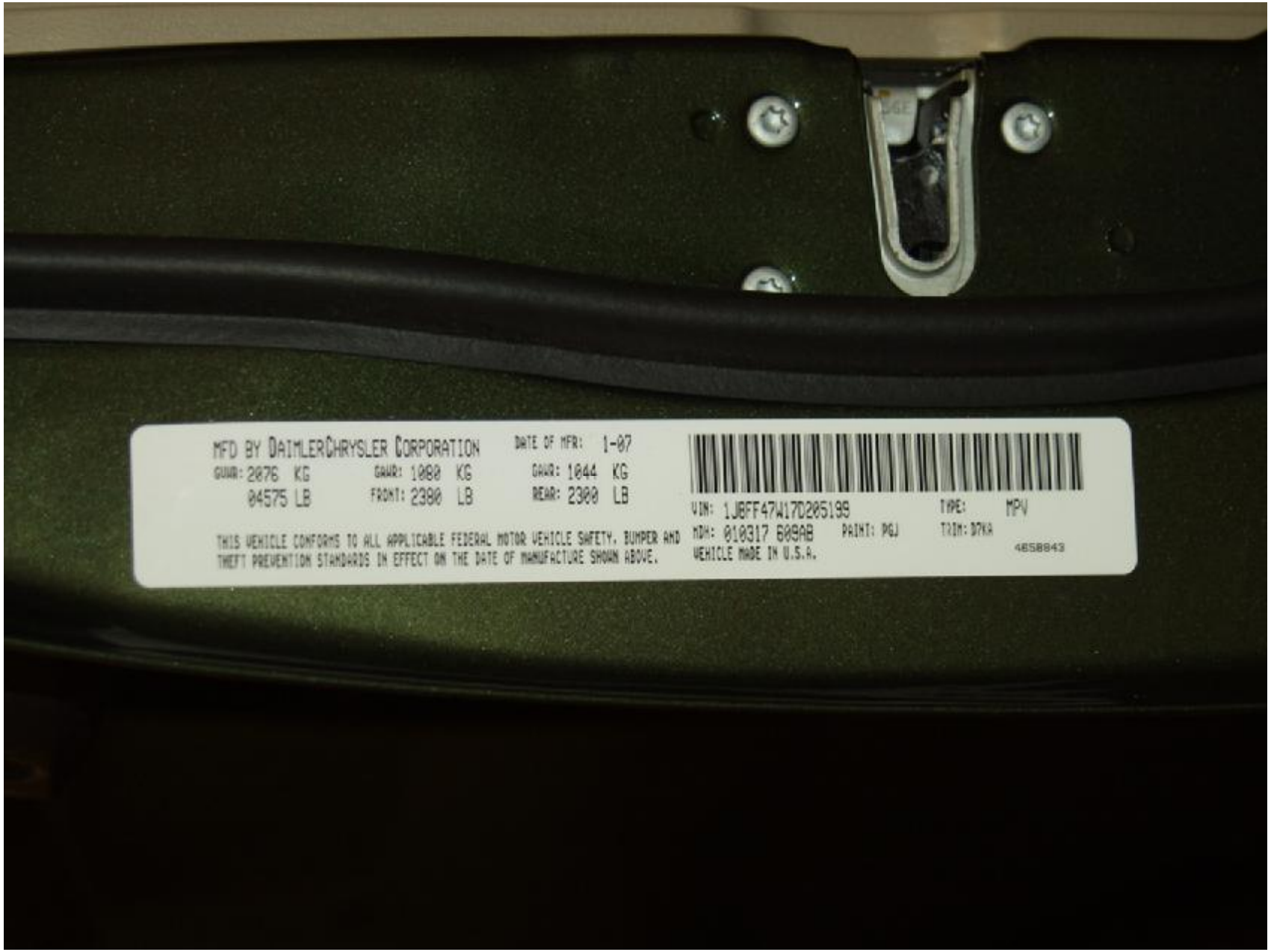


Figure A-5 : VEHICLE'S CERTIFICATION LABEL

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 OTHER PILLAR

Figure A-12 : PRE-TEST DRIVER SIDE REAR PILLAR

Figure A-13 : PRE-TEST PASSENGER SIDE A-PILLAR

Figure A-14 : PRE-TEST PASSENGER SIDE FRONT HEADER

Figure A-15 : PRE-TEST PASSENGER SIDE SIDE RAIL

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

Figure A-17 : PRE-TEST PASSENGER SIDE OTHER PILLAR

Figure A-18 : PRE-TEST PASSENGER SIDE REAR PILLAR

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

Figure A-20 : POST-TEST DRIVER SIDE FRONT HEADER

Figure A-21 : POST-TEST DRIVER SIDE SIDE RAIL

Figure A-22 : POST-TEST DRIVER SIDE B-PILLAR

Figure A-23 : POST-TEST DRIVER SIDE OTHER PILLAR

Figure A-24 : POST-TEST DRIVER SIDE REAR PILLAR

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

Figure A-26 : POST-TEST PASSENGER SIDE FRONT HEADER

Figure A-27 : POST-TEST PASSENGER SIDE SIDE RAIL

Figure A-28 : POST-TEST PASSENGER SIDE B-PILLAR

Figure A-29 : POST-TEST PASSENGER SIDE OTHER PILLAR

Figure A-30 : 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 Calspan Corporation. A summary of the test results are included in this Appendix.

PART 572L
HEAD DROP PRE-TEST

MANUFACTURER:	**FIRST TECHNOLOGY SAFETY SYSTEMS**	
SERIAL NUMBER:	**0642**	
CALIBRATION DATE:	**May 8, 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**22.2**
RELATIVE HUMIDITY	**10% to 70%**	**24**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**233.8**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**8.1**
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**	**J24876**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J33030**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J31009**	**3/12/07**	**9/13/07**

REMARKS:

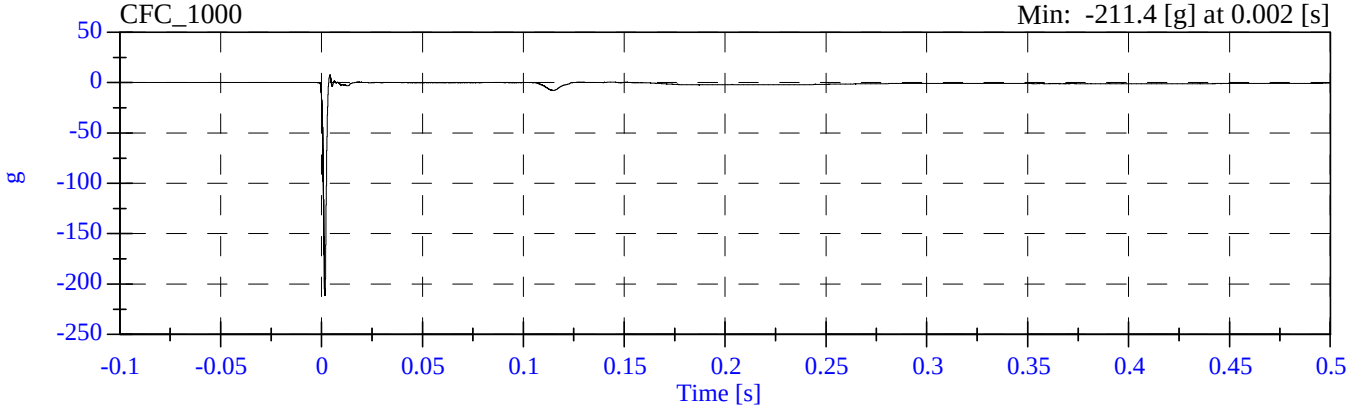
FMVSS 201U - Headform Calibration Drops
C70308 - May 08, 2007

Headform X Acceleration

Max: 7.7 [g] at 0.004 [s]

CFC_1000

Min: -211.4 [g] at 0.002 [s]

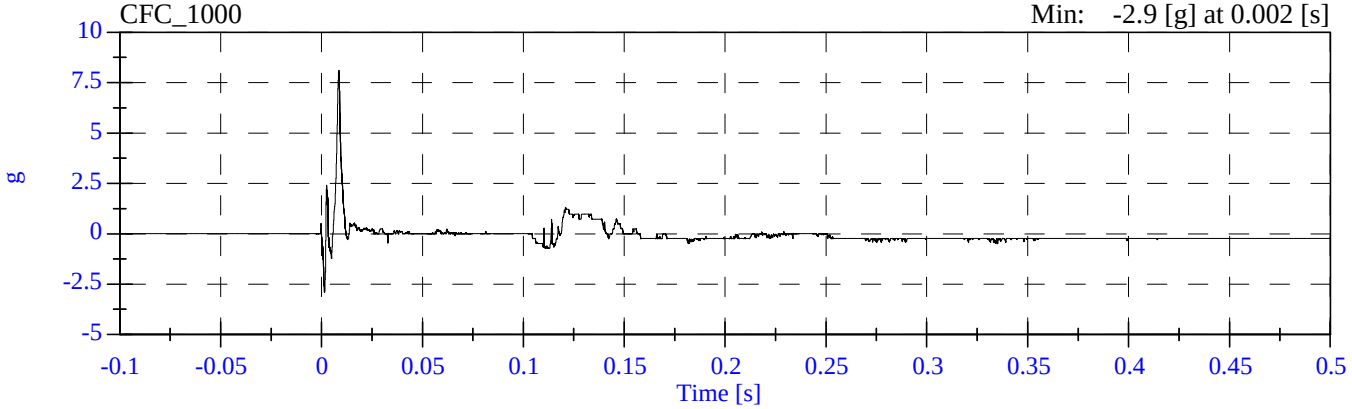


Headform Y Acceleration

Max: 8.1 [g] at 0.009 [s]

CFC_1000

Min: -2.9 [g] at 0.002 [s]

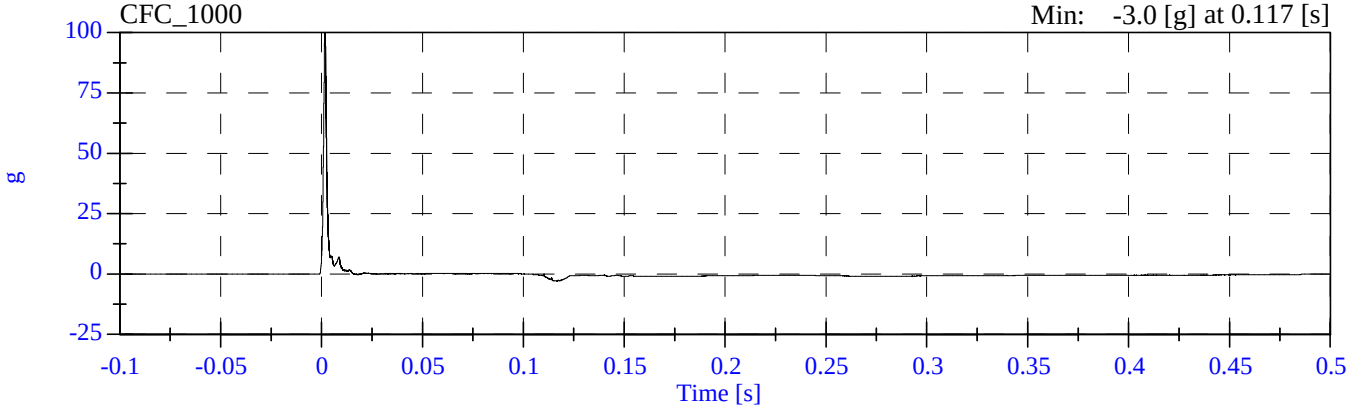


Headform Z Acceleration

Max: 99.9 [g] at 0.002 [s]

CFC_1000

Min: -3.0 [g] at 0.117 [s]

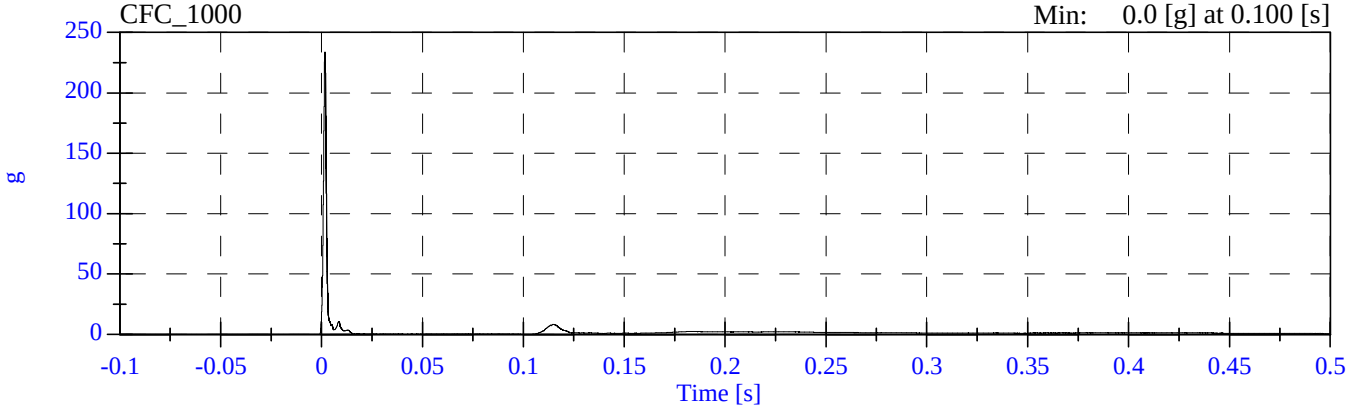


Headform Resultant

Max: 233.8 [g] at 0.002 [s]

CFC_1000

Min: 0.0 [g] at 0.100 [s]



PART 572L
HEAD DROP PRE-TEST

MANUFACTURER:	**DENTON ATD INC.**	
SERIAL NUMBER:	**0062**	
CALIBRATION DATE:	**May 8, 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**22.2**
RELATIVE HUMIDITY	**10% to 70%**	**24**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**239.5**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**11.1**
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**	**J33127**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J33019**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J32782**	**3/12/07**	**9/13/07**

REMARKS:

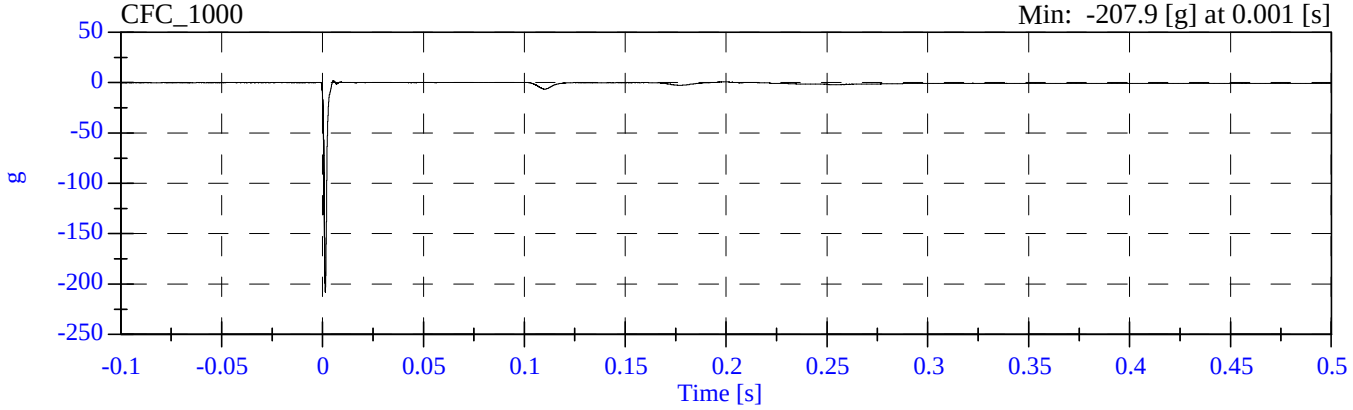
FMVSS 201U - Headform Calibration Drops
C70308 - May 08, 2007

Headform X Acceleration

Max: 2.0 [g] at 0.005 [s]

CFC_1000

Min: -207.9 [g] at 0.001 [s]

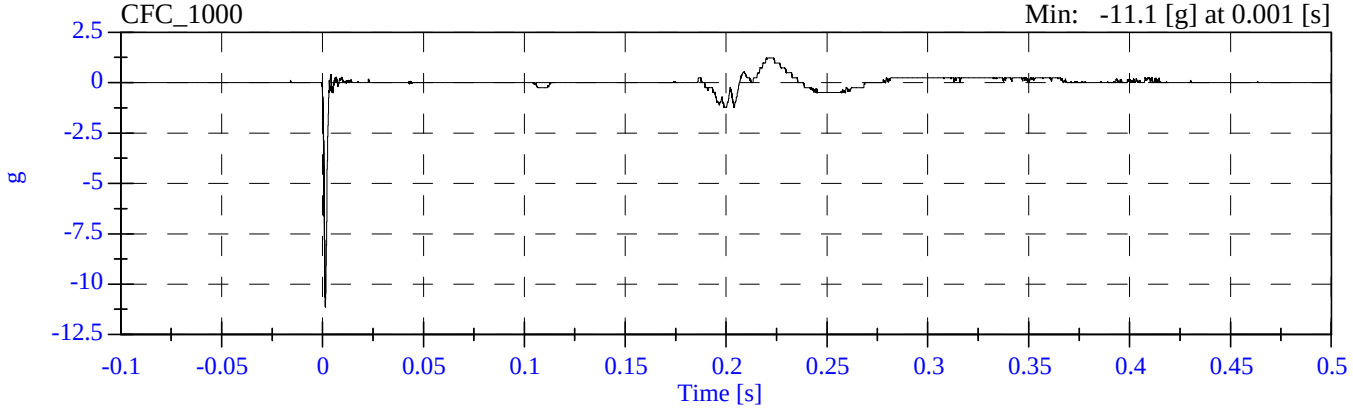


Headform Y Acceleration

Max: 1.2 [g] at 0.220 [s]

CFC_1000

Min: -11.1 [g] at 0.001 [s]

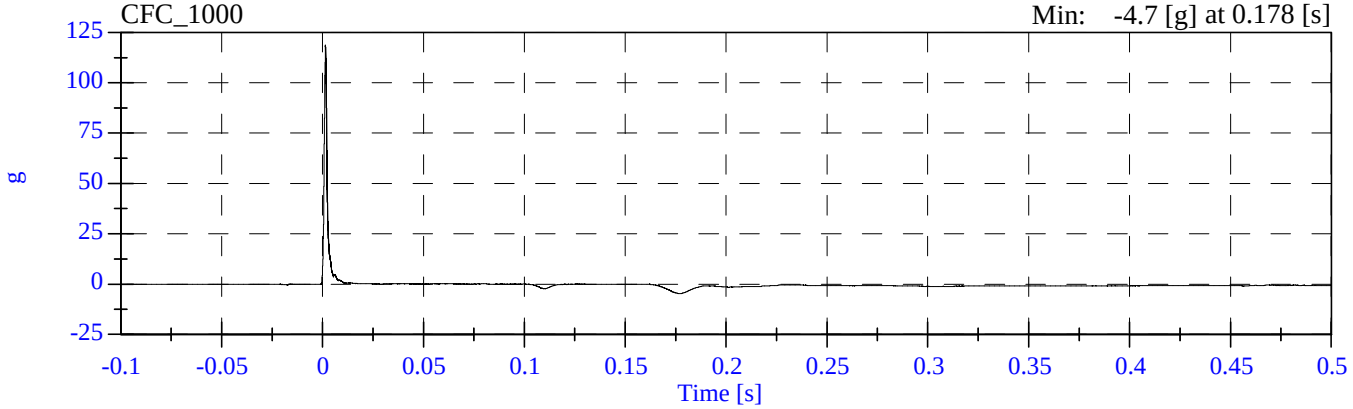


Headform Z Acceleration

Max: 118.9 [g] at 0.001 [s]

CFC_1000

Min: -4.7 [g] at 0.178 [s]

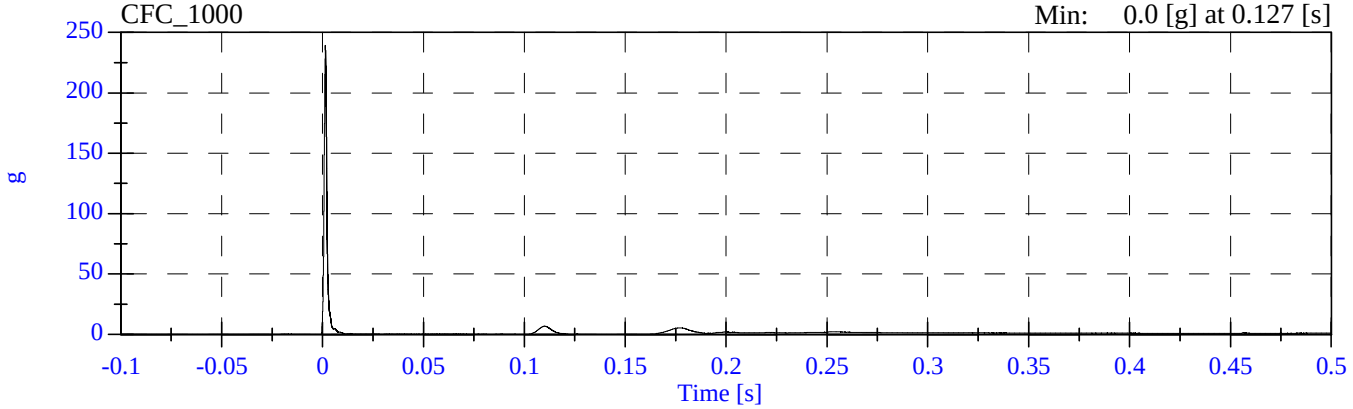


Headform Resultant

Max: 239.5 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at 0.127 [s]



PART 572L
HEAD DROP PRE-TEST

MANUFACTURER:	**FIRST TECHNOLOGY SAFETY SYSTEMS**	
SERIAL NUMBER:	**805**	
CALIBRATION DATE:	**May 8, 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**22.2**
RELATIVE HUMIDITY	**10% to 70%**	**24**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**234.1**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**12.7**
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**	**J38127**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J37980**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J37854**	**3/12/07**	**9/13/07**

REMARKS:

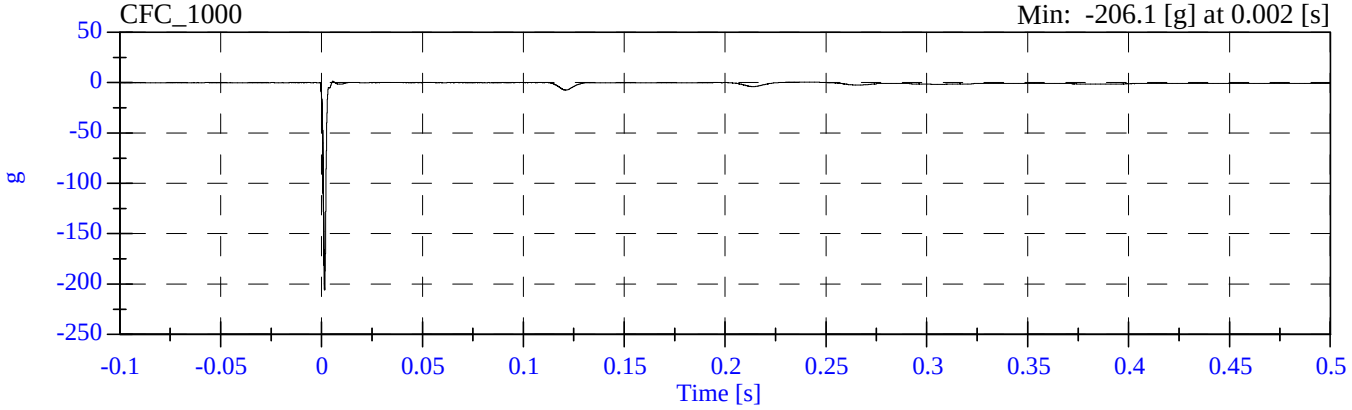
FMVSS 201U - Headform Calibration Drops
C70308 - May 08, 2007

Headform X Acceleration

Max: 1.5 [g] at 0.006 [s]

CFC_1000

Min: -206.1 [g] at 0.002 [s]

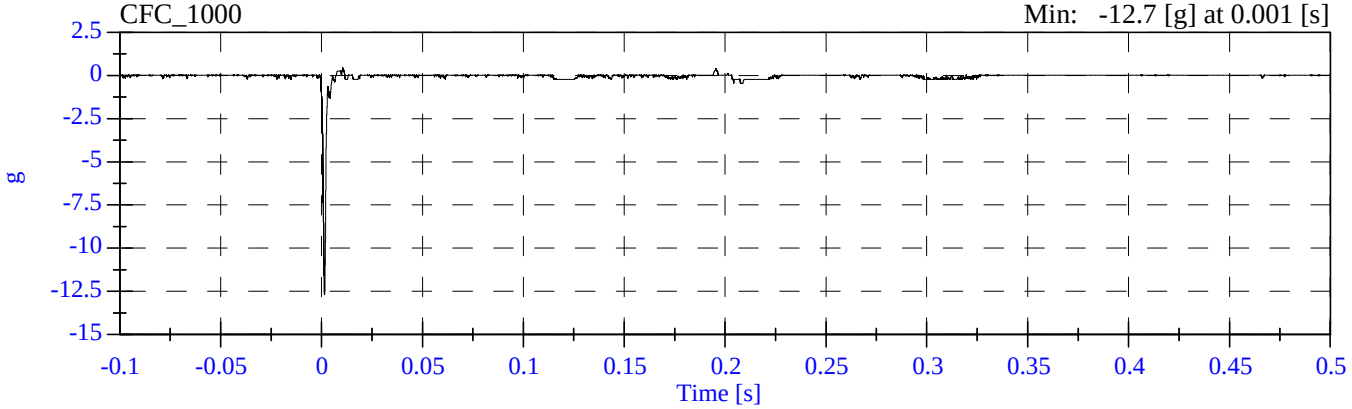


Headform Y Acceleration

Max: 0.4 [g] at 0.010 [s]

CFC_1000

Min: -12.7 [g] at 0.001 [s]

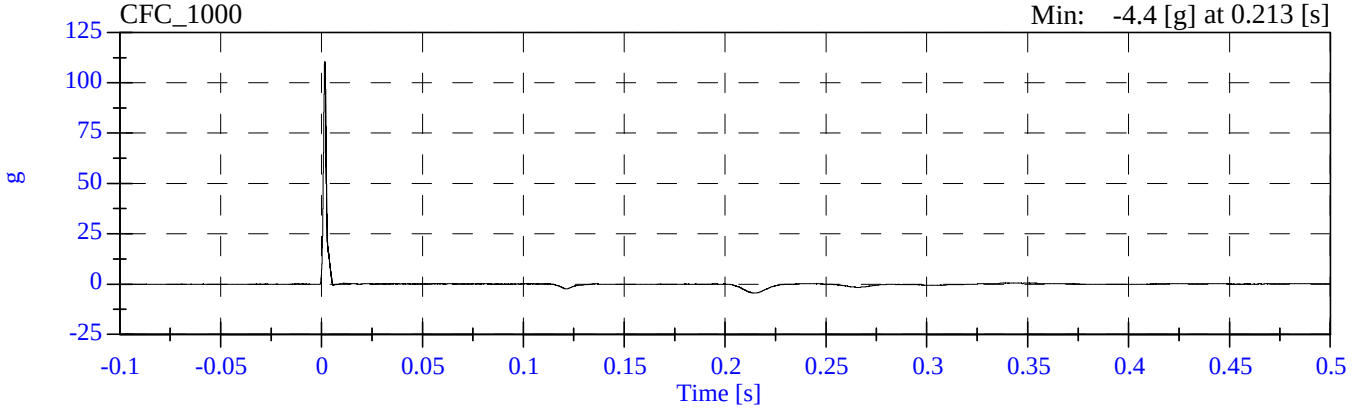


Headform Z Acceleration

Max: 110.4 [g] at 0.002 [s]

CFC_1000

Min: -4.4 [g] at 0.213 [s]

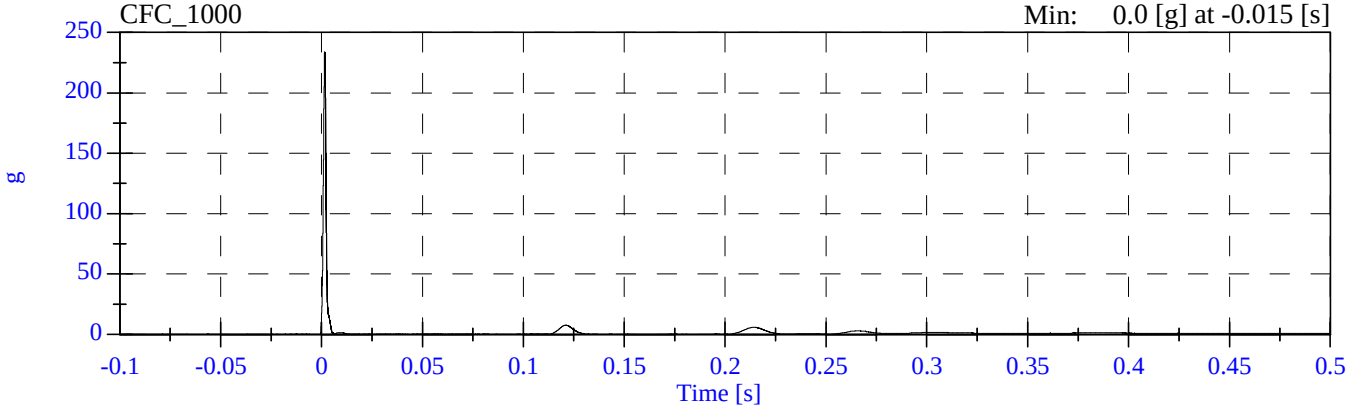


Headform Resultant

Max: 234.1 [g] at 0.002 [s]

CFC_1000

Min: 0.0 [g] at -0.015 [s]



PART 572L
HEAD DROP PRE-TEST

MANUFACTURER:	**DENTON ATD INC.**	
SERIAL NUMBER:	**0355**	
CALIBRATION DATE:	**May 8, 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**22.2**
RELATIVE HUMIDITY	**10% to 70%**	**24**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**261.0**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**13.4**
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**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J32779**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J25854**	**3/12/07**	**9/13/07**

REMARKS:

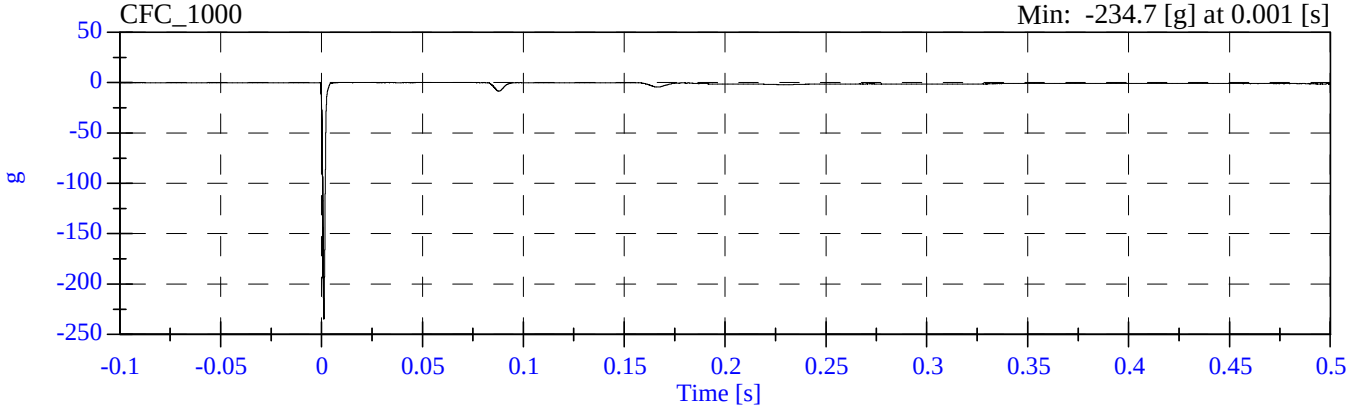
FMVSS 201U - Headform Calibration Drops
C70308 - May 08, 2007

Headform X Acceleration

Max: 0.4 [g] at 0.018 [s]

CFC_1000

Min: -234.7 [g] at 0.001 [s]

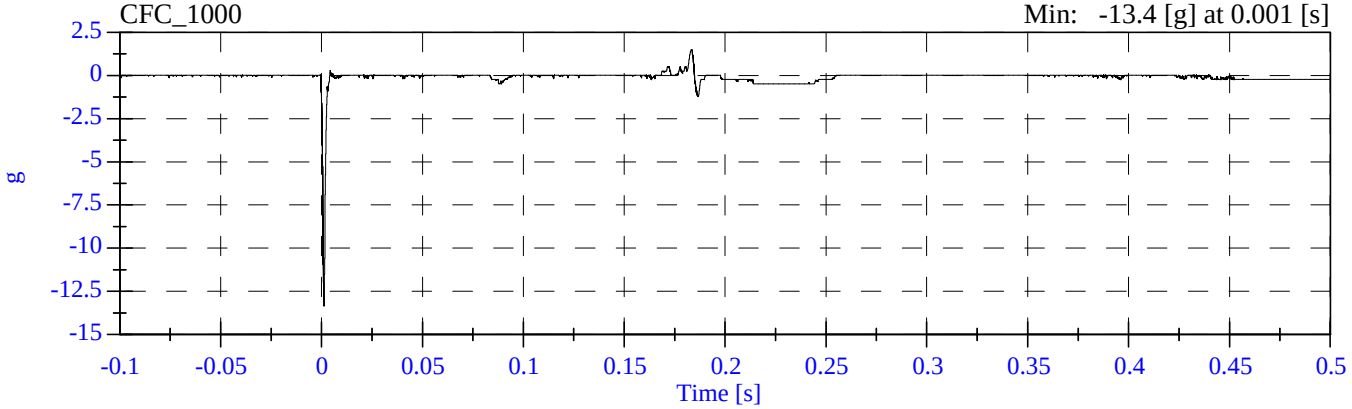


Headform Y Acceleration

Max: 1.5 [g] at 0.183 [s]

CFC_1000

Min: -13.4 [g] at 0.001 [s]

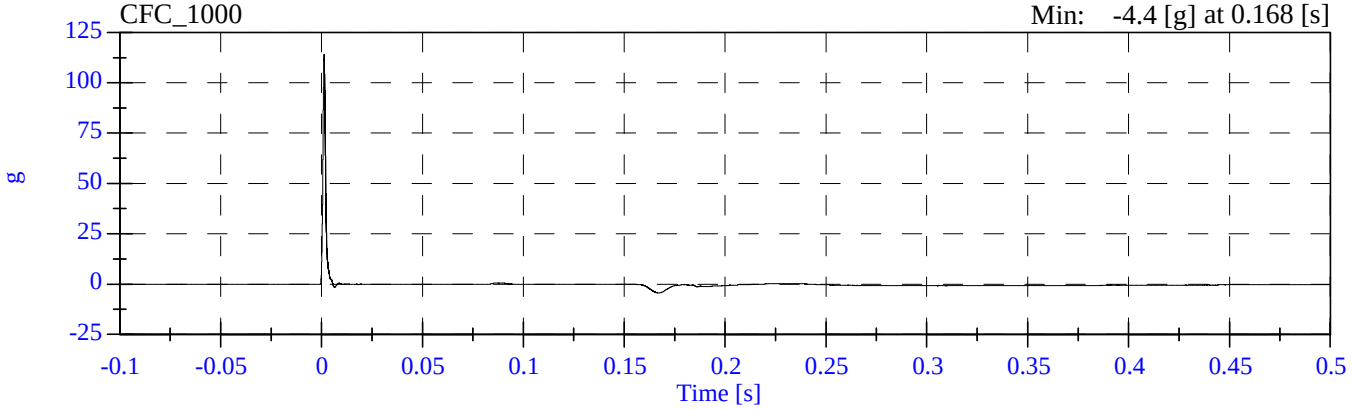


Headform Z Acceleration

Max: 114.1 [g] at 0.001 [s]

CFC_1000

Min: -4.4 [g] at 0.168 [s]

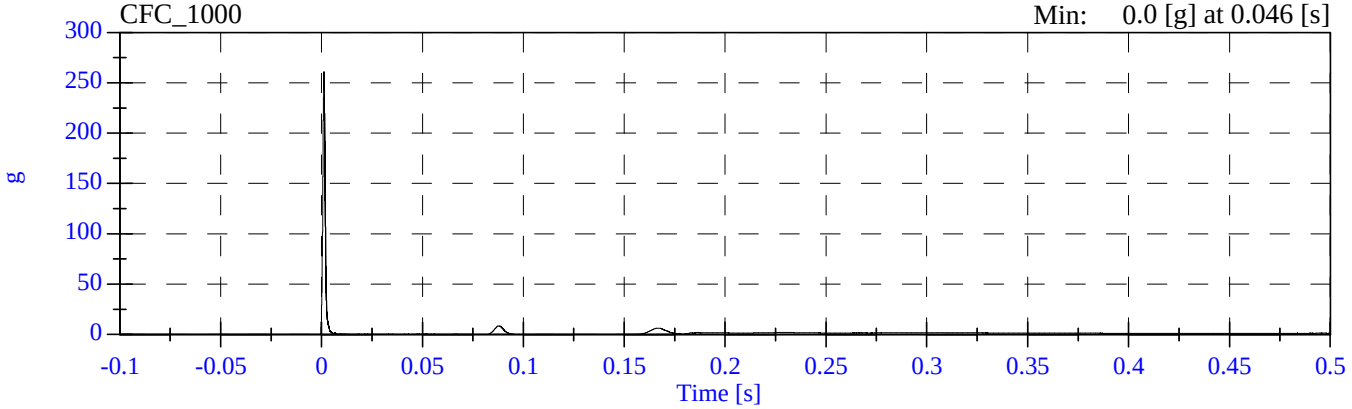


Headform Resultant

Max: 261.0 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at 0.046 [s]



PART 572L
HEAD DROP PRE-TEST

MANUFACTURER:	**FIRST TECHNOLOGY SAFETY SYSTEMS**	
SERIAL NUMBER:	**1255**	
CALIBRATION DATE:	**May 8, 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**22.2**
RELATIVE HUMIDITY	**10% to 70%**	**24**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**231.2**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**12.9**
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**	**J41006**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J40994**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J41007**	**3/12/07**	**9/13/07**

REMARKS:

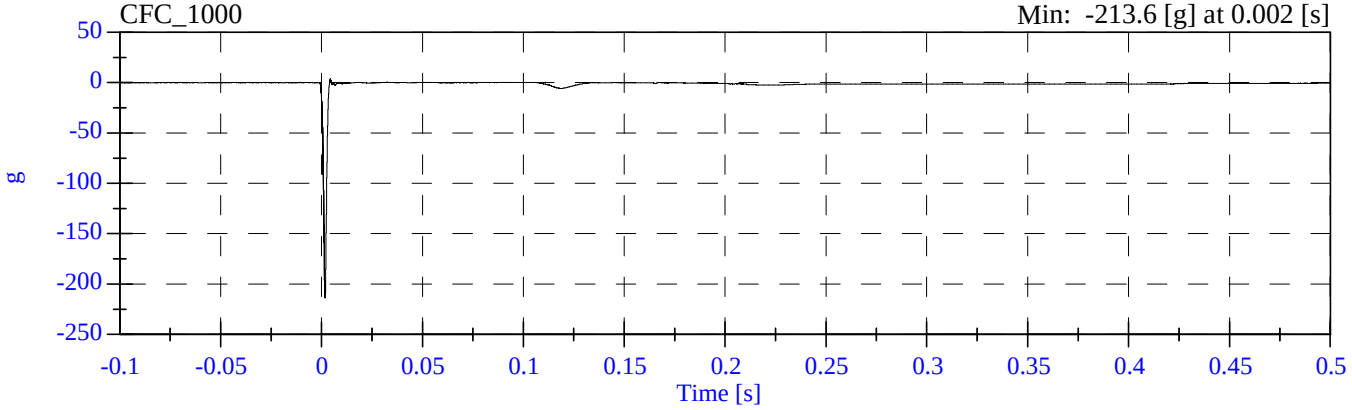
FMVSS 201U - Headform Calibration Drops
C70308 - May 08, 2007

Headform X Acceleration

Max: 3.7 [g] at 0.004 [s]

CFC_1000

Min: -213.6 [g] at 0.002 [s]

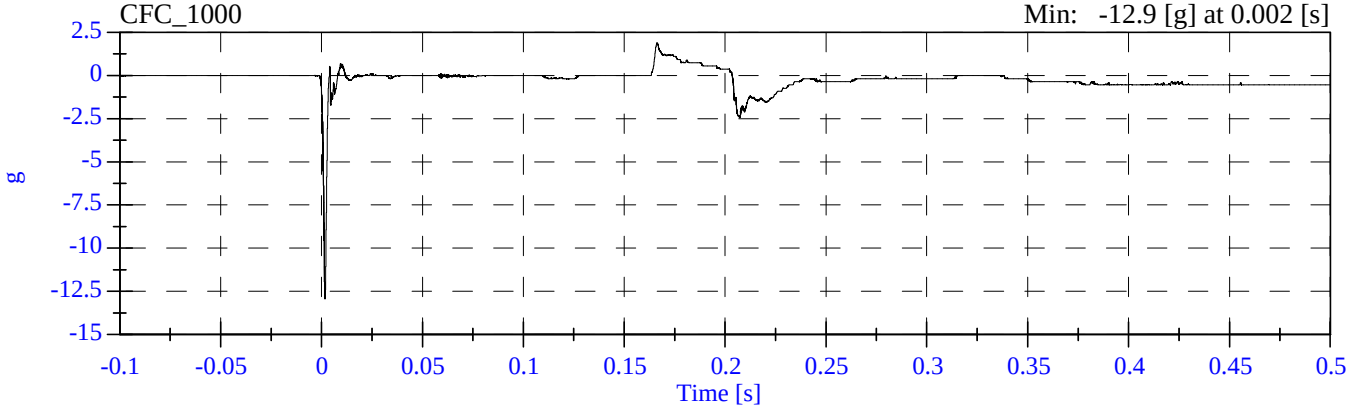


Headform Y Acceleration

Max: 1.9 [g] at 0.166 [s]

CFC_1000

Min: -12.9 [g] at 0.002 [s]

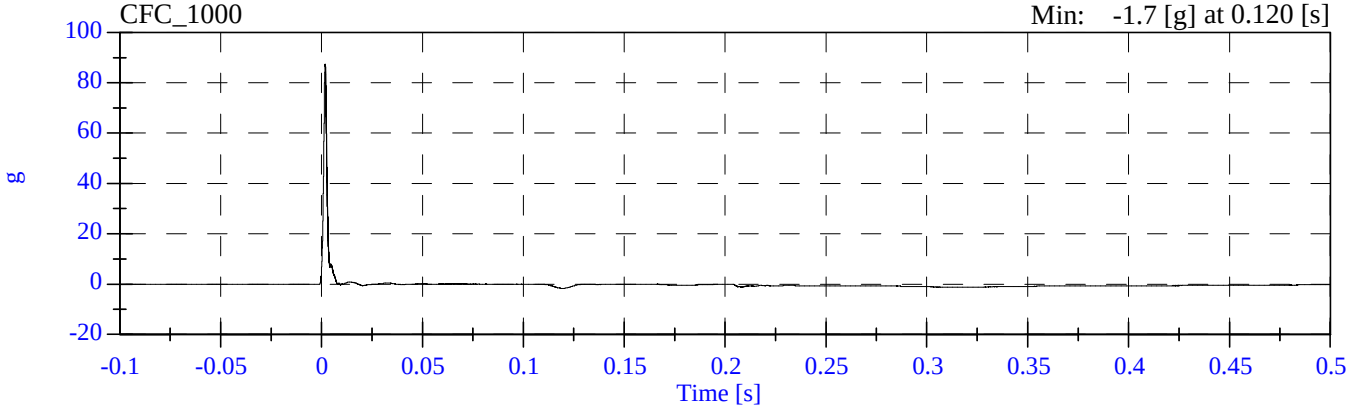


Headform Z Acceleration

Max: 87.5 [g] at 0.002 [s]

CFC_1000

Min: -1.7 [g] at 0.120 [s]

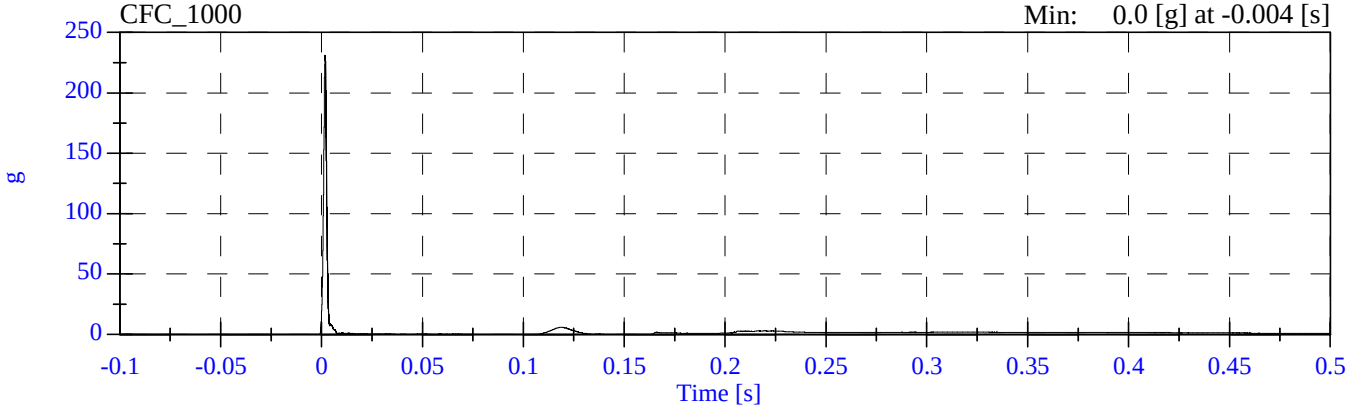


Headform Resultant

Max: 231.2 [g] at 0.002 [s]

CFC_1000

Min: 0.0 [g] at -0.004 [s]



PART 572L
HEAD DROP POST-TEST

MANUFACTURER:	**FIRST TECHNOLOGY SAFETY SYSTEMS**	
SERIAL NUMBER:	**0642**	
CALIBRATION DATE:	**MAY 21. 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**20.6**
RELATIVE HUMIDITY	**10% to 70%**	**40**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**242.2**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**11.7**
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**	**J24876**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J33030**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J31009**	**3/12/07**	**9/13/07**

REMARKS:

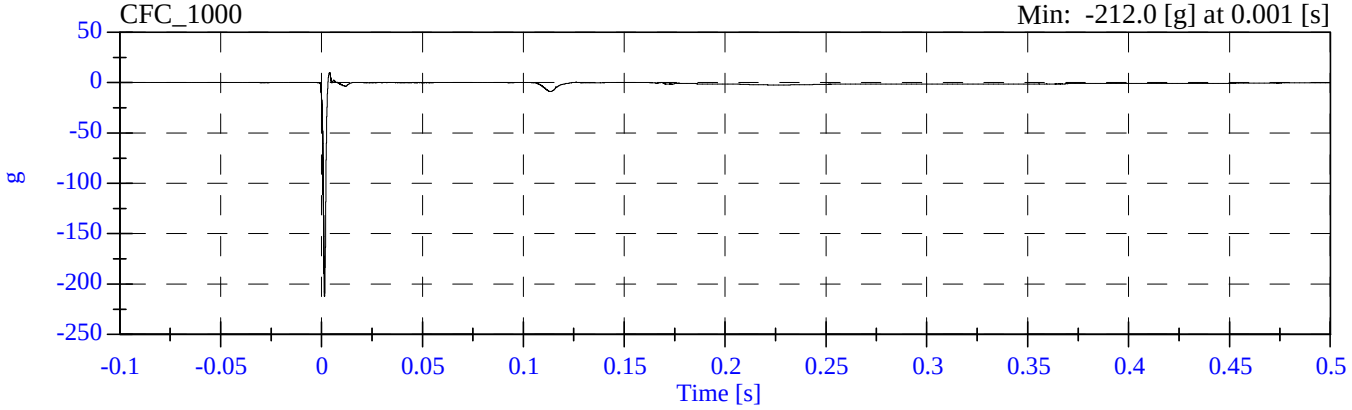
FMVSS 201U - Headform Calibration Drops
C70308 - May 21, 2007

Headform X Acceleration

Max: 9.9 [g] at 0.004 [s]

CFC_1000

Min: -212.0 [g] at 0.001 [s]

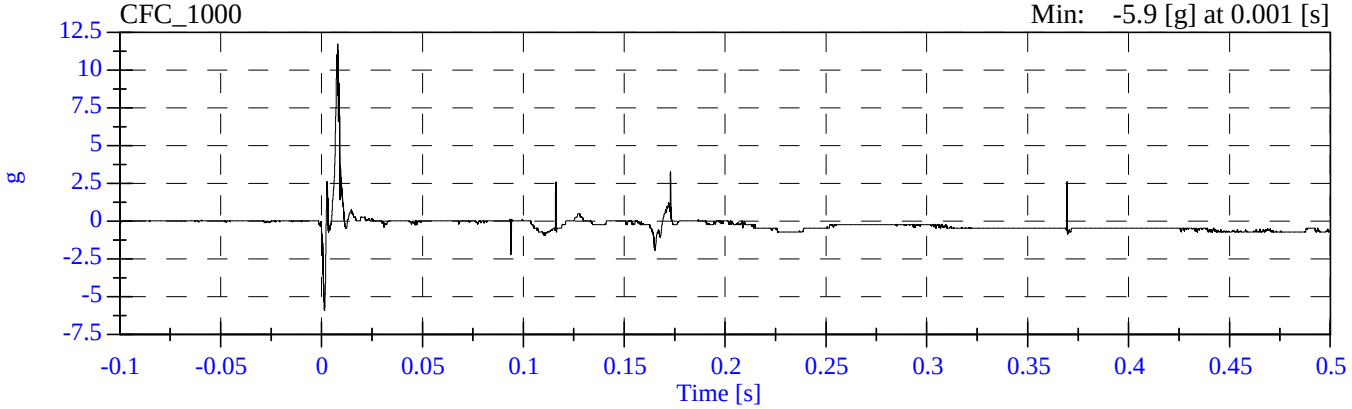


Headform Y Acceleration

Max: 11.7 [g] at 0.008 [s]

CFC_1000

Min: -5.9 [g] at 0.001 [s]

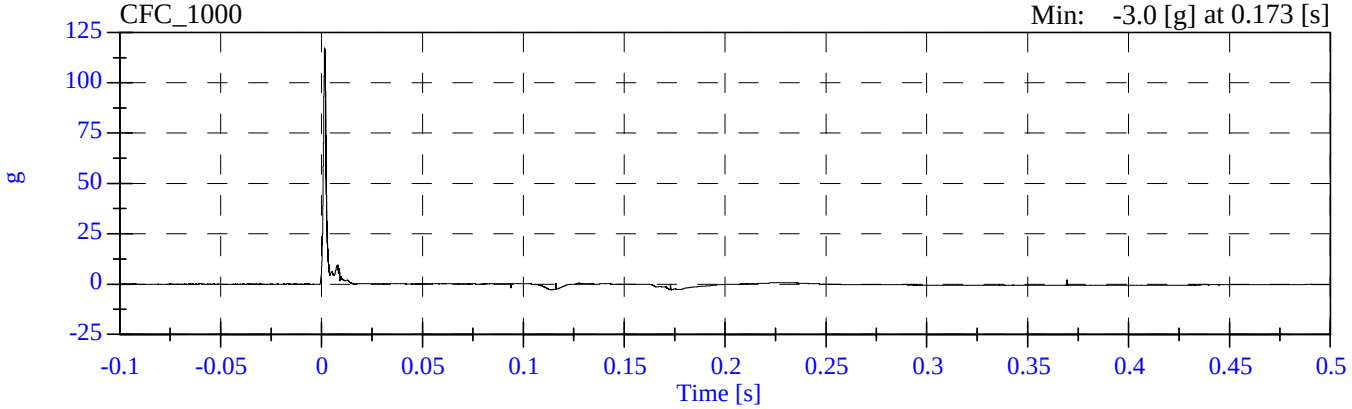


Headform Z Acceleration

Max: 117.3 [g] at 0.002 [s]

CFC_1000

Min: -3.0 [g] at 0.173 [s]

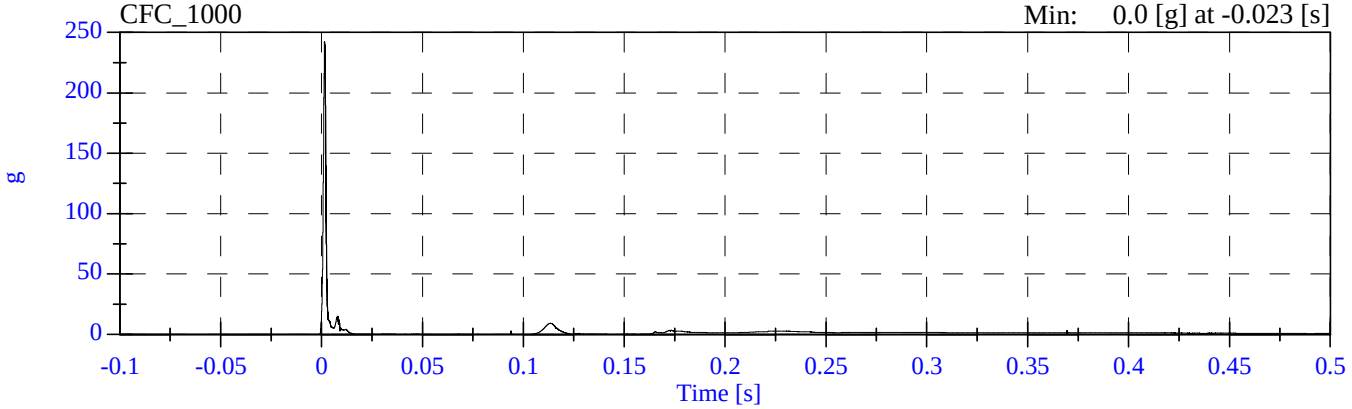


Headform Resultant

Max: 242.2 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at -0.023 [s]



PART 572L
HEAD DROP POST-TEST

MANUFACTURER:	**DENTON ATD INC.**	
SERIAL NUMBER:	**0062**	
CALIBRATION DATE:	**MAY 21. 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**20.6**
RELATIVE HUMIDITY	**10% to 70%**	**40**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**241.6**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**5.9**
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**	**J33127**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J33019**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J32782**	**3/12/07**	**9/13/07**

REMARKS:

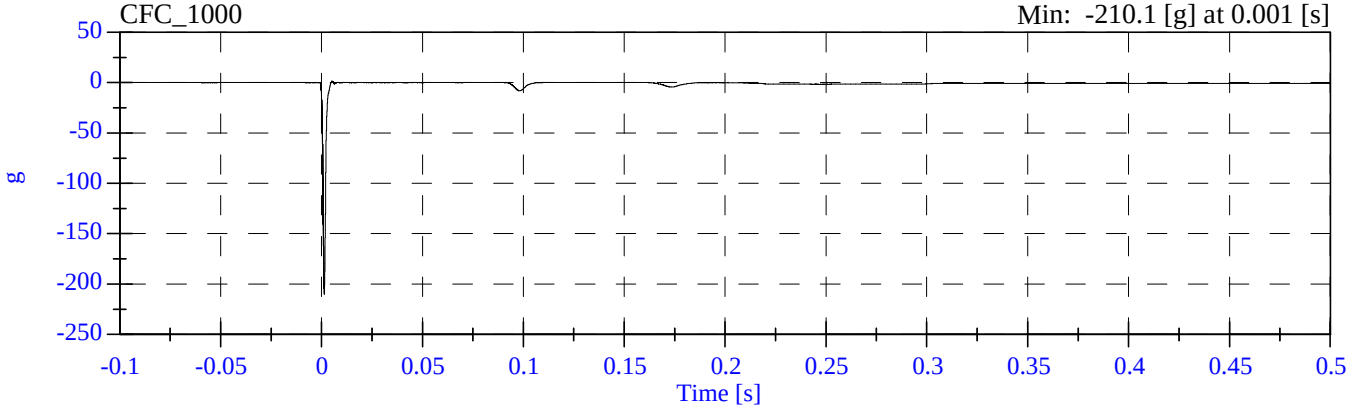
FMVSS 201U - Headform Calibration Drops
C70308 - May 21, 2007

Headform X Acceleration

Max: 1.3 [g] at 0.005 [s]

CFC_1000

Min: -210.1 [g] at 0.001 [s]

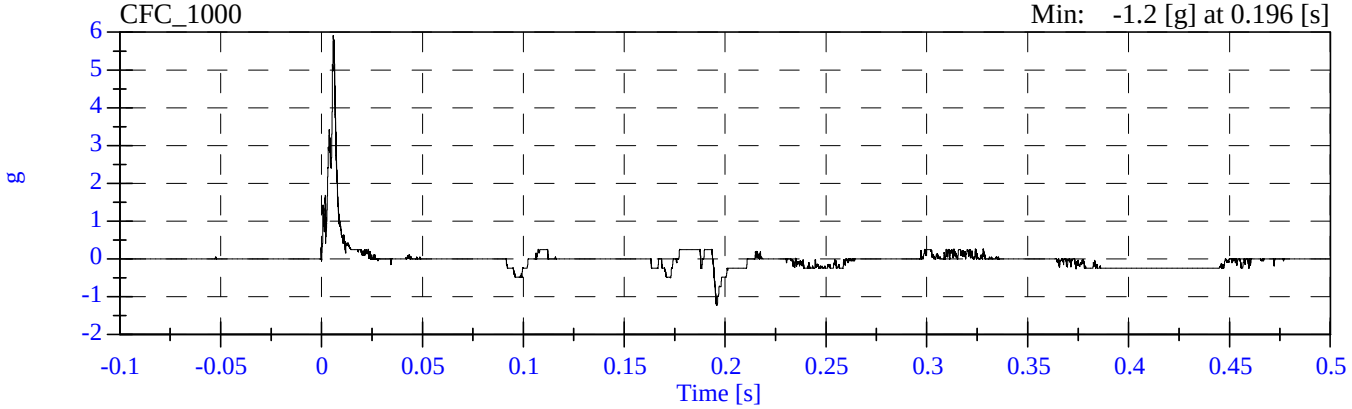


Headform Y Acceleration

Max: 5.9 [g] at 0.006 [s]

CFC_1000

Min: -1.2 [g] at 0.196 [s]

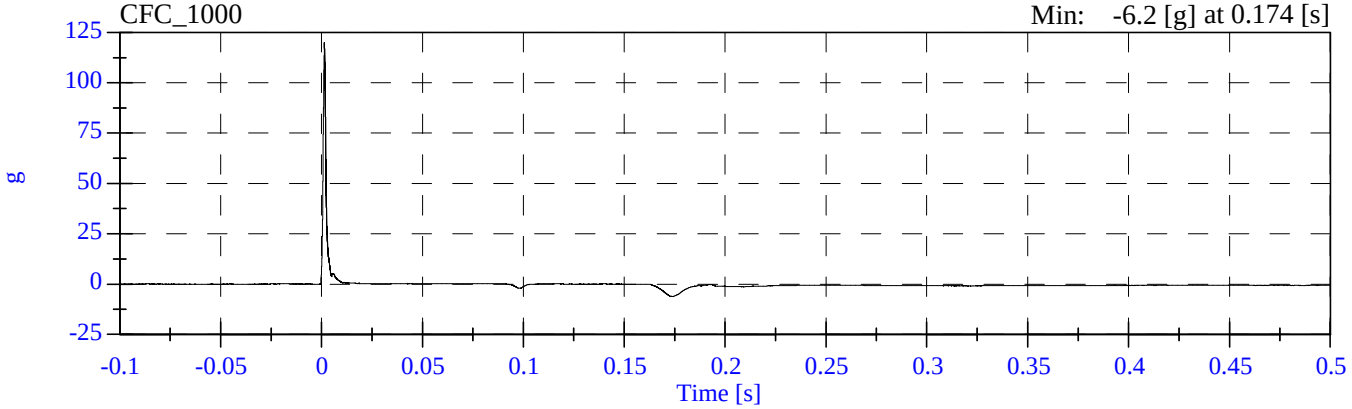


Headform Z Acceleration

Max: 120.0 [g] at 0.001 [s]

CFC_1000

Min: -6.2 [g] at 0.174 [s]

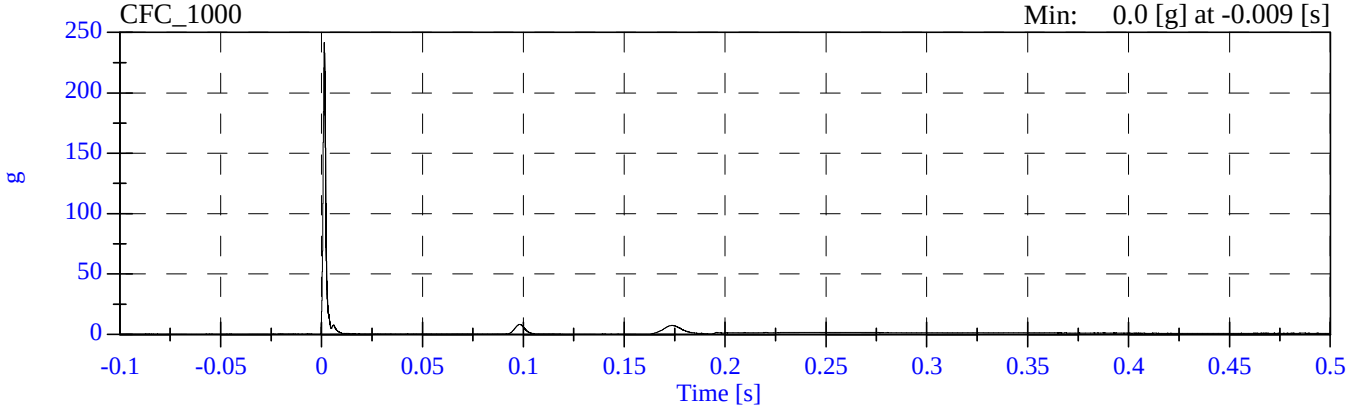


Headform Resultant

Max: 241.6 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at -0.009 [s]



PART 572L
HEAD DROP POST-TEST

MANUFACTURER:	**FIRST TECHNOLOGY SAFETY SYSTEMS**	
SERIAL NUMBER:	**805**	
CALIBRATION DATE:	**MAY 21. 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**20.6**
RELATIVE HUMIDITY	**10% to 70%**	**40**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**256.0**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**6.2**
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	J38127	3/12/07	9/13/07
2 - LATERAL	ENDEVCO	7264-2000T	J37980	3/12/07	9/13/07
3 - VERTICAL	ENDEVCO	7264-2000T	J37854	3/12/07	9/13/07

REMARKS:

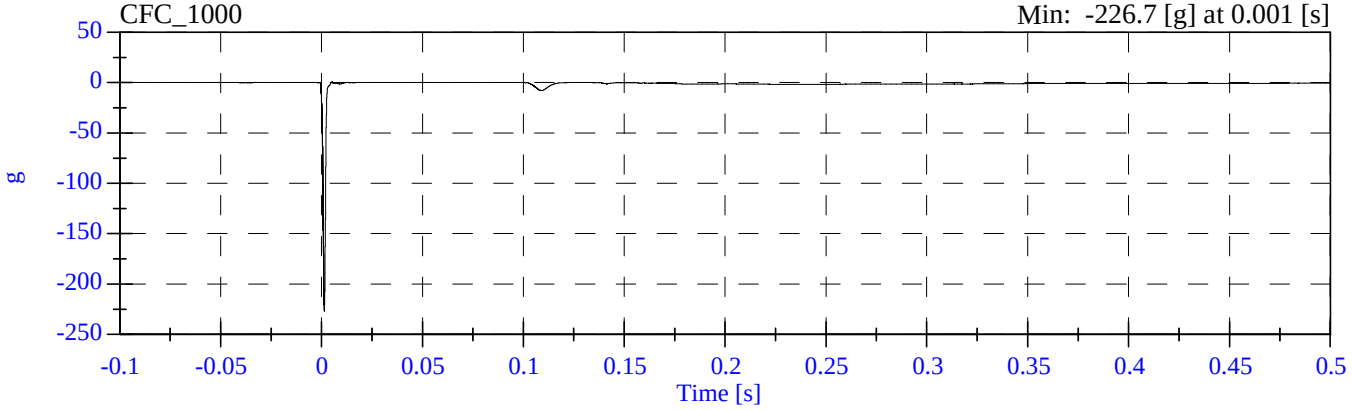
FMVSS 201U - Headform Calibration Drops
C70308 - May 21, 2007

Headform X Acceleration

Max: 0.7 [g] at 0.005 [s]

CFC_1000

Min: -226.7 [g] at 0.001 [s]

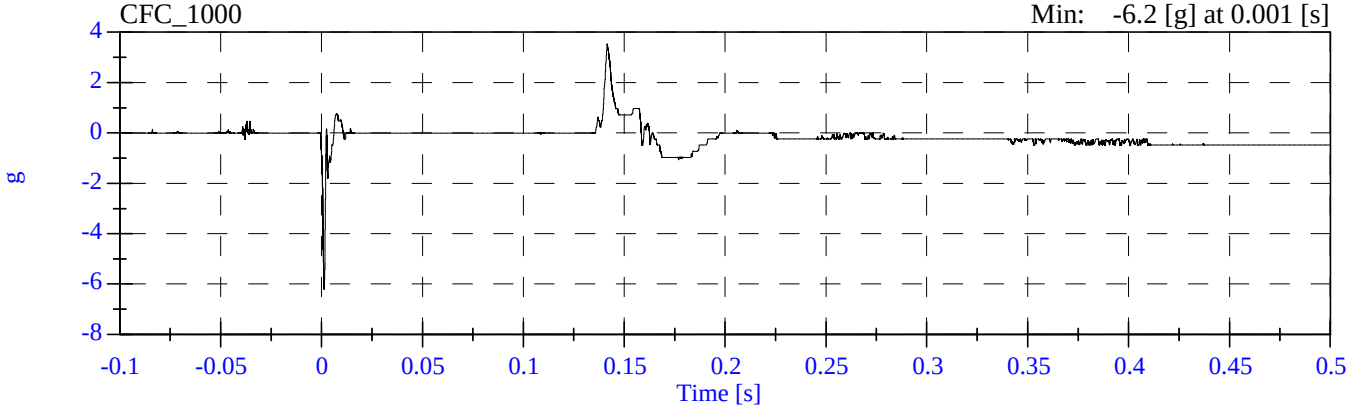


Headform Y Acceleration

Max: 3.5 [g] at 0.142 [s]

CFC_1000

Min: -6.2 [g] at 0.001 [s]

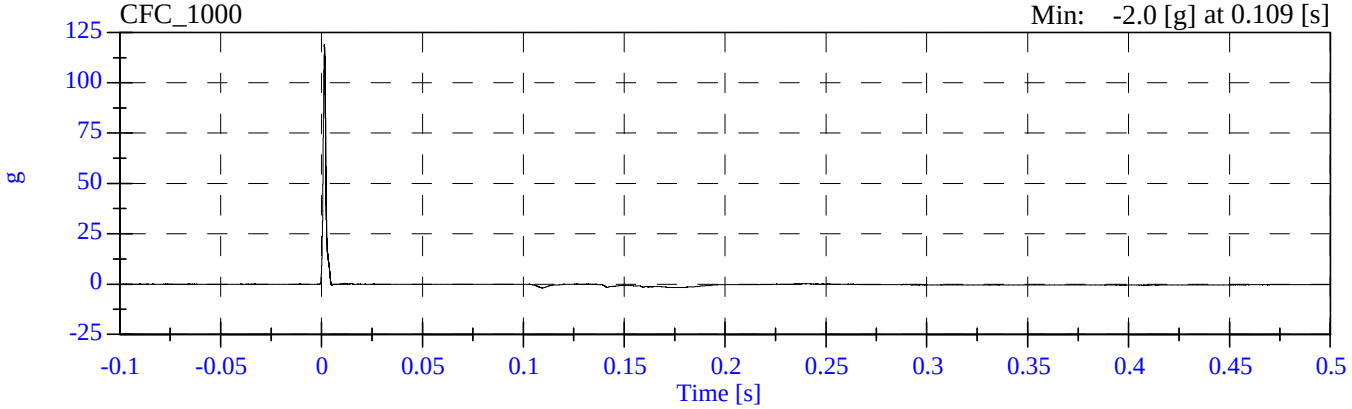


Headform Z Acceleration

Max: 119.0 [g] at 0.001 [s]

CFC_1000

Min: -2.0 [g] at 0.109 [s]

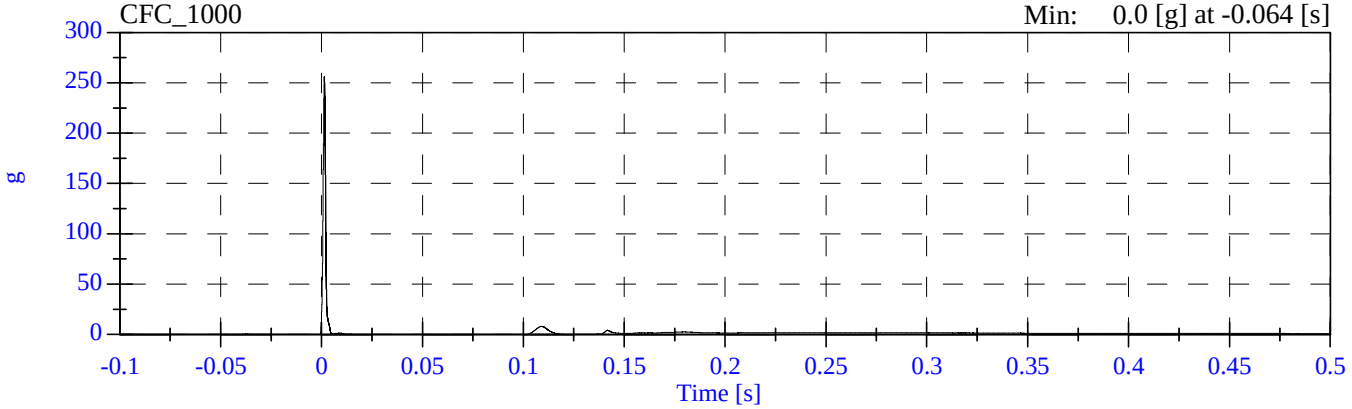


Headform Resultant

Max: 256.0 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at -0.064 [s]



PART 572L
HEAD DROP POST-TEST

MANUFACTURER:	**DENTON ATD INC.**	
SERIAL NUMBER:	**0355**	
CALIBRATION DATE:	**MAY 21. 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**20.6**
RELATIVE HUMIDITY	**10% to 70%**	**40**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**249.2**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**2.1**
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**	**3/12/07**	**9/13/07**
2 - LATERAL	**ENDEVCO**	**7264-2000T**	**J32779**	**3/12/07**	**9/13/07**
3 - VERTICAL	**ENDEVCO**	**7264-2000T**	**J25854**	**3/12/07**	**9/13/07**

REMARKS:

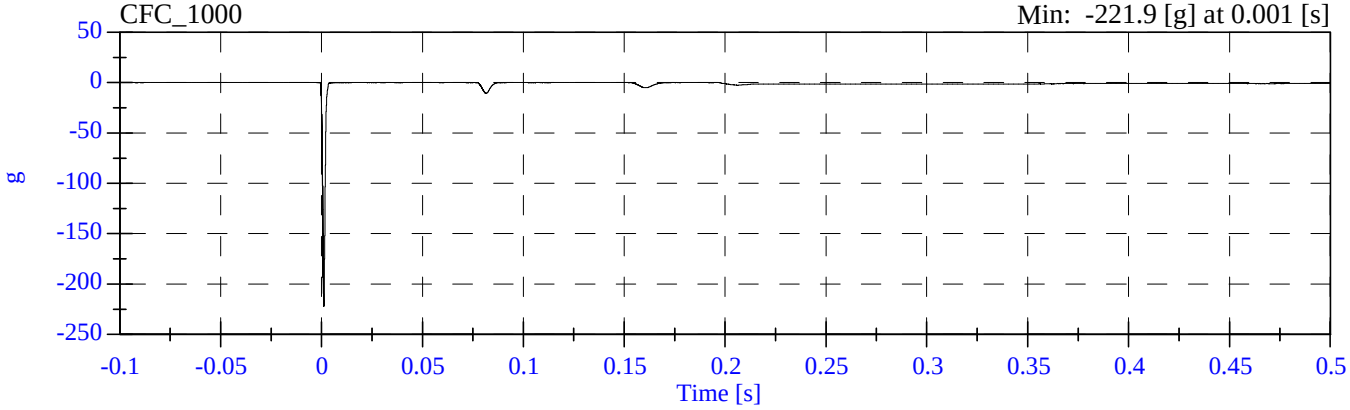
FMVSS 201U - Headform Calibration Drops
C70308 - May 21, 2007

Headform X Acceleration

Max: 0.4 [g] at -0.090 [s]

CFC_1000

Min: -221.9 [g] at 0.001 [s]

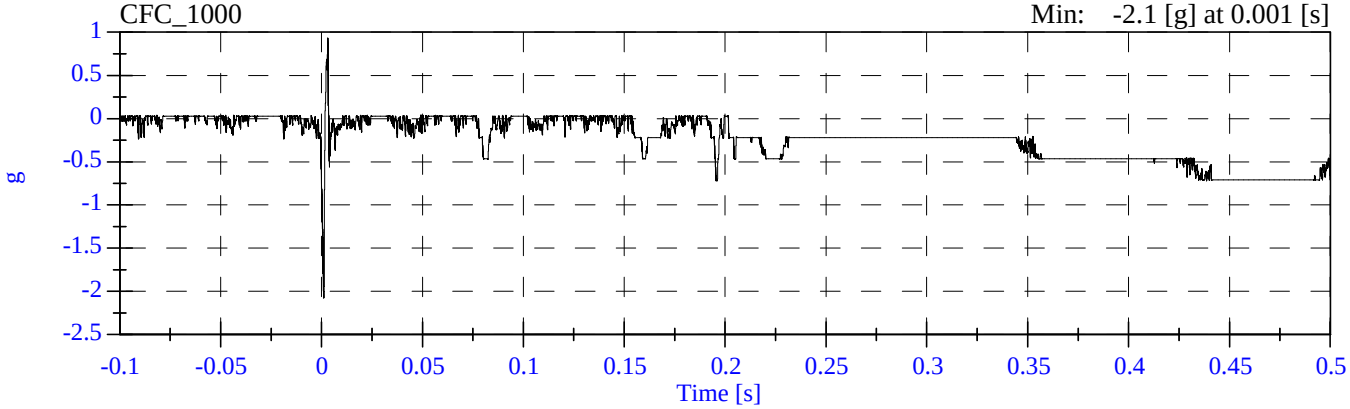


Headform Y Acceleration

Max: 0.9 [g] at 0.003 [s]

CFC_1000

Min: -2.1 [g] at 0.001 [s]

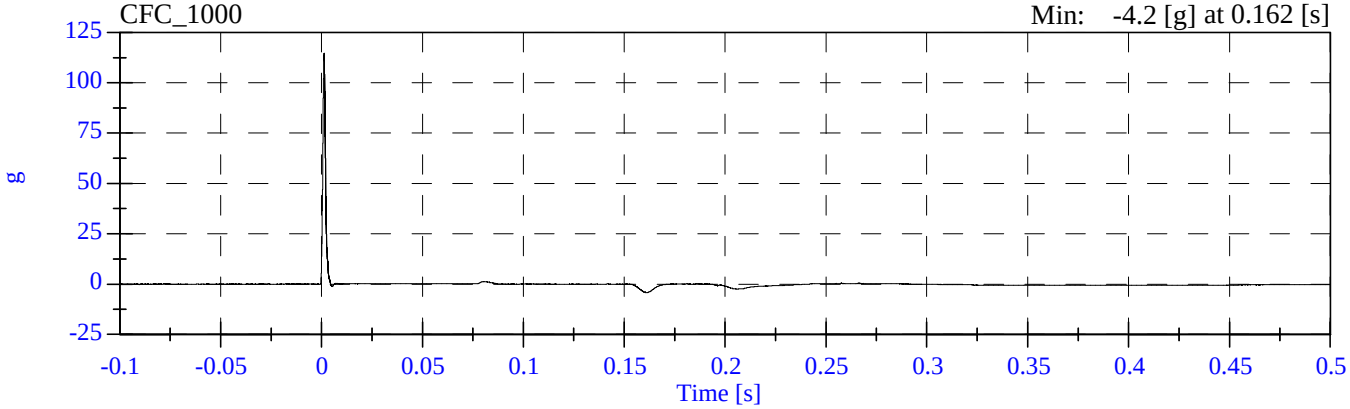


Headform Z Acceleration

Max: 114.6 [g] at 0.001 [s]

CFC_1000

Min: -4.2 [g] at 0.162 [s]

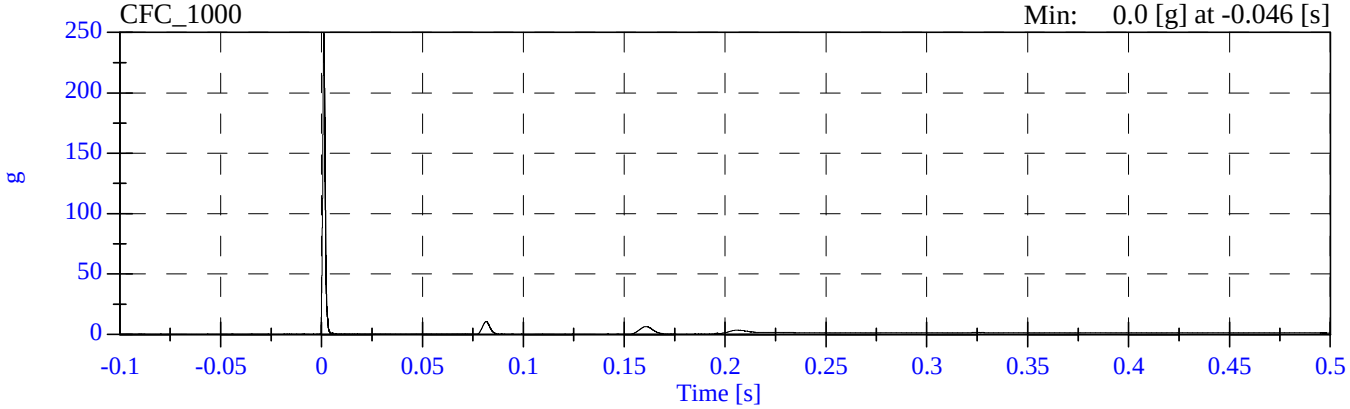


Headform Resultant

Max: 249.2 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at -0.046 [s]



PART 572L
HEAD DROP POST-TEST

MANUFACTURER:	**FIRST TECHNOLOGY SAFETY SYSTEMS**	
SERIAL NUMBER:	**1255**	
CALIBRATION DATE:	**MAY 21. 2007**	
TEST PARAMETER	**SPECIFICATION**	**TEST RESULTS**
TEMPERATURE	**19°C to 26°C**	**20.6**
RELATIVE HUMIDITY	**10% to 70%**	**40**
PEAK RESULTANT ACCELERATION	**225 Gs to 275 Gs**	**271.6**
PEAK LATERAL ACCELERATION	**15 Gs Maximum**	**10.2**
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	J41006	3/12/07	9/13/07
2 - LATERAL	ENDEVCO	7264-2000T	J40994	3/12/07	9/13/07
3 - VERTICAL	ENDEVCO	7264-2000T	J41007	3/12/07	9/13/07

REMARKS:

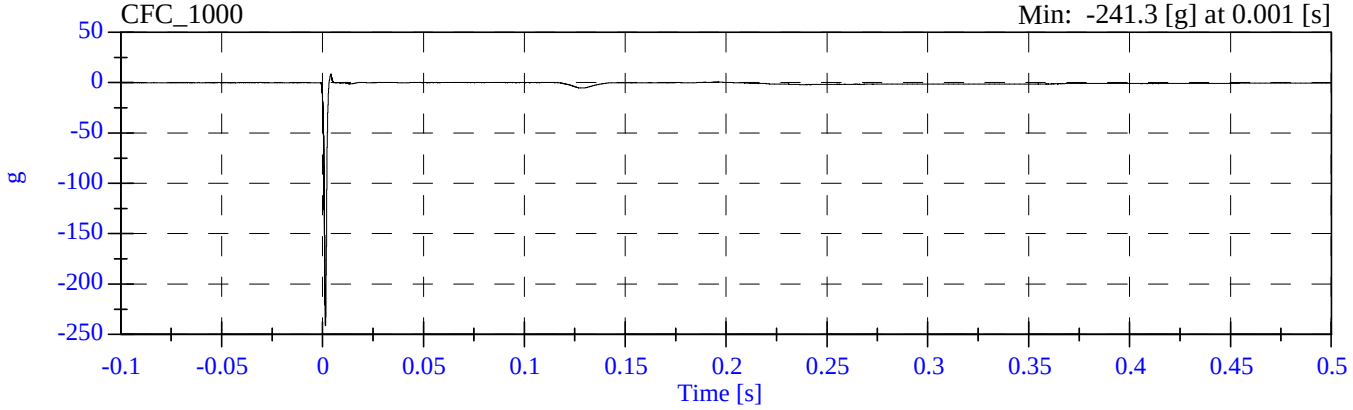
FMVSS 201U - Headform Calibration Drops
C70308 - May 21, 2007

Headform X Acceleration

Max: 8.4 [g] at 0.004 [s]

CFC_1000

Min: -241.3 [g] at 0.001 [s]

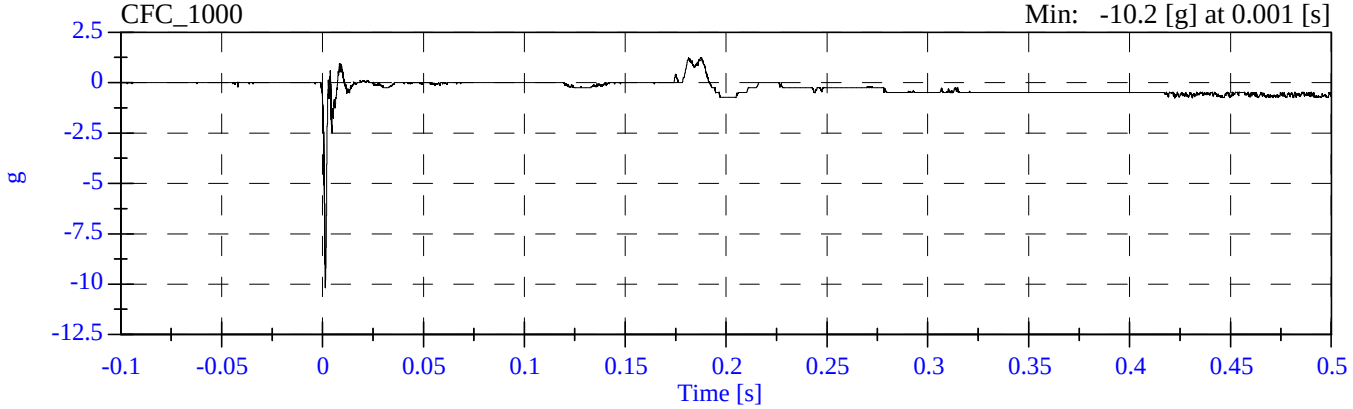


Headform Y Acceleration

Max: 1.2 [g] at 0.181 [s]

CFC_1000

Min: -10.2 [g] at 0.001 [s]

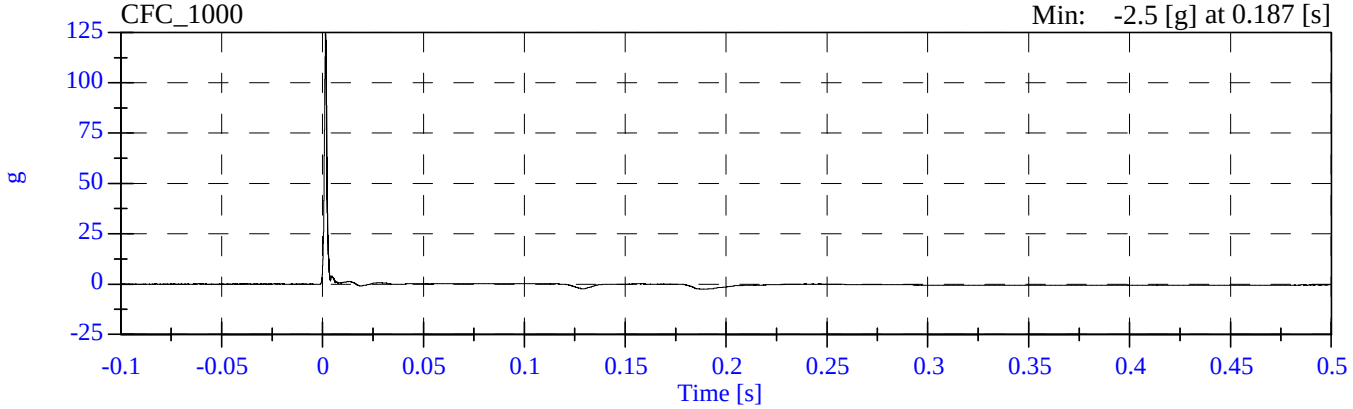


Headform Z Acceleration

Max: 124.4 [g] at 0.001 [s]

CFC_1000

Min: -2.5 [g] at 0.187 [s]



Headform Resultant

Max: 271.6 [g] at 0.001 [s]

CFC_1000

Min: 0.0 [g] at -0.098 [s]