

REPORT NUMBER: 201UI-CAL-07-01

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

**TOYOTA MOTOR CORPORATION  
2007 TOYOTA CAMRY, 4-DOOR SEDAN**

NHTSA NUMBER: C75100

CALSPAN TEST NUMBER: 8826-FMH-01

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



Test Date: March 15, 2007

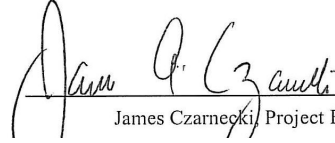
FINAL REPORT

PREPARED FOR:

U. S. DEPARTMENT OF TRANSPORTATION  
National Highway Traffic Safety Administration  
Enforcement  
Office of Vehicle Safety Compliance  
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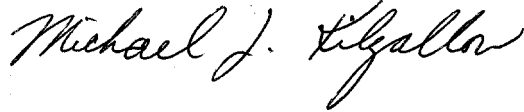
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15. <i>Supplementary Notes</i>																							
16. <i>Abstract</i>  Compliance tests were conducted on the subject vehicle, a 2007 Toyota Camry, 4-door Sedan, in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure TP-201U-01 for determination of FMVSS 201 compliance. Test failures identified were as follows in the table below:																							
<table border="1"> <thead> <tr> <th>Target Point</th> <th>Horizontal</th> <th>Vertical</th> <th>Velocity</th> <th>HIC</th> <th>HICd</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>None</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>						Target Point	Horizontal	Vertical	Velocity	HIC	HICd	None	-	-	-	-	-	None	-	-	-	-	-
Target Point	Horizontal	Vertical	Velocity	HIC	HICd																		
None	-	-	-	-	-																		
None	-	-	-	-	-																		
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## SECTION 2

### SUMMARY OF UPPER INTERIOR HEAD IMPACTS

A 2007 Toyota Camry, 4-door Sedan, NHTSA No.C75100, was tested at various upper interior locations by a 4.54 kg 50<sup>th</sup> 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:

RP2	BP4	BP1	SR2A	AP3
AP1	AP2	SR1	BP2	URBP
SR3	URRP			

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  $4.54 \pm 0.5$  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 Toyota Camry, 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06 (SEE CERTIFICATION LABEL)
COLOR:	Gold

TARGET CODE	Target Coordinates						Approach Angles (degrees)		Velocity (kph)	FMH HIC	HIC(d)*
	Driver Side			Passenger Side			Horizontal	Vertical			
	X(mm)	Y(mm)	Z(mm)	X(mm)	Y(mm)	Z(mm)					
AP1	2161.144	-531.193	2073.944	2163.127	529.930	2076.698	Relocated 2 circles		-	-	-
AP1 R2	2193.040	-543.947	2056.910	2204.624	534.616	2065.839	103°	25°	18.36	398.1	466.8
AP2	2090.475	-579.142	1985.523	2094.904	578.776	1986.694	208°	44°	18.58	189.0	309.0
AP3	1930.469	-609.960	1913.861	1935.977	607.619	1915.414	137°	37°	18.90	170.2	294.8
BP1	2681.718	-491.027	2129.736	2690.084	490.176	2128.292	89°	10°	23.29**	406.1	472.8
BP2	2660.659	-601.776	1916.987	2664.546	601.318	1916.068	270°	1°	23.32	495.1	539.9
BP3	2623.348	-602.418	1936.998	2630.362	599.794	1932.264	-	-	-	-	-
BP4	2719.703	-655.947	1837.780	2722.357	658.264	1836.105	140°	-4°	23.50	561.7	590.2
FH1	2082.125	-421.515	2084.901	2081.192	412.187	2083.795	-	-	-	-	-
FH2	2055.257	-275.355	2090.319	2059.715	264.396	2091.182	-	-	-	-	-
RH	3451.533	-375.346	2120.878	3455.919	376.756	2119.223	-	-	-	-	-
RP1	3469.859	-506.231	2090.072	3469.576	504.305	2094.398	-	-	-	-	-
RP2	3480.165	-606.723	1948.972	3478.713	605.138	1948.715	43°	32°	23.42	873.1	825.1
SR1	2309.702	-503.855	2100.190	2315.498	503.933	2100.435	Relocated 1 circle		-	-	-
SR1 R1	2284.681	-498.641	2097.434	2292.005	496.693	2096.888	270°	37°	18.37	317.4	405.8
SR2A	2462.177	-505.003	2127.618	2465.795	504.270	2126.793	Relocated 1 circle		-	-	-
SR2A R1	2460.947	-488.240	2111.630	2466.519	485.330	2113.252	90°	44°	18.50	343.7	425.7
SR2B	2383.810	-508.978	2119.481	2390.079	505.368	2120.826	Relocated 1 circle		-	-	-
SR2B R1	2393.055	-490.948	2107.041	2396.666	489.106	2106.481	-	-	-	-	-
SR3	3064.565	-508.460	2078.689	3067.464	509.661	2079.407	270°	35°	18.53	210.4	325.2
SR3	3254.325	-513.767	2060.864	3259.997	516.332	2059.163	-	-	-	-	-
URAP	2302.569	-392.746	2117.377	2306.101	392.472	2116.897	-	-	-	-	-
URBP	2685.026	-369.253	2152.490	2686.265	367.607	2153.980	270°	50°	23.46	598.4	617.8
URFSR	2472.478	-377.450	2161.909	2472.478	377.450	2160.709	-	-	-	-	-
URRP	3321.727	-385.367	2143.049	3326.173	384.121	2142.187	320°	50°	23.30	444.3	501.6
URRSR	3131.826	-377.946	2159.581	3133.891	379.979	2158.132	-	-	-	-	-

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

\*\* Velocity estimated due to accelerometer malfunction during free flight. Accelerometer regained function during impact.

**DATA SHEET 2-2**

**GENERAL TEST AND VEHICLE PARAMETER DATA**

<b>TEST VEHICLE INFORMATION:</b>									
Year/Make/Model/Body Style:			2007 Toyota Camry 4-door Sedan						
VIN:			4T1BE46K47U038100						
Month & Year of Manufacture:			06/06(SEE CERTIFICATION LABEL)						
Vehicle Body Color:			Gold						
Engine Data:	4	Cylinders;	-	CID;	2.4	Liters;	-	cc	
Engine Placement:		x	Longitudinal;	or		-	Lateral		
Transmission:	5	Speed;	-	Manual;	x	Automatic;	-	Overdrive	
Final Drive:	-	Rear Wheel Drive;	x	Front Wheel Drive;	-	Four Wheel Drive			
Odometer Reading:		471	km						
Options:	x	A/C;	x	Power Steering;	x	Pwr.Brakes;	x	Pwr. Windows	
Interior Trim Information :									
1. Adjustable seat belt anchorages on both B-pillars									
2. Front and rear outboard side rails have grab handles									
3. Normal roof									

<b>DATA FROM TIRE PLACARD:</b>									
Tire Pressure (at capacity);			210			kPa FRONT			
			210			kPa REAR			
Recommended Tire Size:			P215/60R16						
Tires on Test Vehicle:		P215/60R16			Manufacturer:		-		
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)=			410			kg (A)			
No. of Occupants x 68 kg. =			340			kg (B)			
Rated Cargo/Luggage Weight (RCLW) =			70			kg (A-B) Max. RCLW = 136 kg.			



**DATA SHEET 2-2**

**GENERAL TEST AND VEHICLE PARAMETER DATA (cont.)**

<b>TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:</b>						
Left Front	=	445.0	kg	Left Rear	=	306.0 kg
Right Front	=	453.5	kg	Right Rear	=	279.0 kg
TOTAL FRONT	=	898.5	kg	TOTAL REAR	=	585.0 kg
% of Total Weight	=	60.6	%	% of Total Weight	=	39.4 %
TOTAL WEIGHT	=	1483.5		kg		

<b>CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:</b>		
Total Test Vehicle Delivered Weight=	1483.5	kg (A)
+ Rated Cargo/Luggage Weight =	70.0	kg (B)
TEST VEHICLE TARGET WEIGHT =	1553.5	kg (A+B)

<b>WEIGHT OF TEST VEHICLE (FULLY LOADED):</b>						
Left Front	=	452.5	kg	Left Rear	=	312.0 kg
Right Front	=	441.5	kg	Right Rear	=	338.5 kg
TOTAL FRONT	=	894.0	kg	TOTAL REAR	=	650.5 kg
% of Total Weight	=	57.9	%	% of Total Weight	=	42.1 %
TOTAL TEST WEIGHT	=	1544.5				
Weight of vehicle secured in test vehicles cargo area	=	59		kg		

<b>TEST VEHICLE ATTITUDE (all dimensions in millimeters):</b>				
AS DELIVERED:	Left Front	727	Left Rear	725
	Right Front	729	Right Rear	734
FULLY LOADED:	Left Front	725	Left Rear	714
	Right Front	729	Right Rear	720
Test Vehicle Wheelbase:	2765		millimeters	

<b>TEST VEHICLE PITCH AND ROLL ANGLES:</b>				
AS DELIVERED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↑1.1↓	Front Bumper	↓0.1↑
	Right Door Sill	↓1.3↑	Rear Bumper	↓0.1↑
FULLY LOADED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↑0.8↓	Front Bumper	0.0
	Right Door Sill	↓0.9↑	Rear Bumper	↓0.2↑
AS TESTED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↑0.8↓	Front Bumper	0.0
	Right Door Sill	↓0.9↑	Rear Bumper	↓0.1↑

DATA SHEET 2-3

APPROACH ANGLE LIMITS

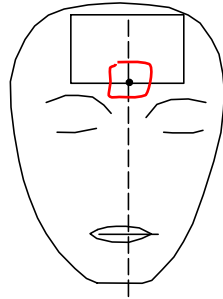
Target Code	Left Side				Target Code	Right Side			
	Horizontal Angles (deg.)		Vertical Angles (deg.)			Horizontal Angles (deg.)		Vertical Angles (deg.)	
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum
AP1	202	255	-5	25	AP1	103	159	-5	25
AP2	202	255	-5	44	AP2	103	159	-5	44
AP3	202	255	-5	37	AP3	103	159	-5	37
BP1	199	290	-10	10	BP1	69	161	-10	10
BP2	ANY		0	1	BP2	ANY		0	1
BP3	199	290	-10	6	BP3	69	161	-10	6
BP4	199	290	-10	-4	BP4	69	161	-10	-4
OP1	270		-10	-	OP1	90		-10	-
OP2	270		-10	-	OP2	90		-10	-
RP1	270	345	-10	5	RP1	15	90	-10	5
RP2	270	345	-10	32	RP2	15	90	-10	32
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	37	SR1	90		0	37
SR2A	270		0	42	SR2A	90		0	42
SR2B	270		0	41	SR2B	90		0	41
SR3F	270		0	35	SR3F	90		0	35
SR3R	270		0	35	SR3R	90		0	35
URAP	ANY		0	50	URAP	ANY		0	50
URBP	ANY		0	50	URBP	ANY		0	50
URFSR	ANY		0	50	URFSR	ANY		0	50
URRSR	ANY		0	50	URRSR	ANY		0	50
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:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold



ã RIGHT SIDE OF FACE

TARGET	Distance Above Point 0 (mm)	Distance Over From Pt. O (mm)
RP2	24	3R
BP4	10	9L
BP1	35	0
SR2A	25	0
AP3	17	3R
AP1	21	3R
AP2	15	5R
SR1	39	3L
BP2	24	3L
URBP	40	4R
SR3	6	0
URRP	28	6L

**SECTION 3**

**SUMMARY OF TEST RESULTS AND DATA PLOTS**

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	01
Test Date:	03/14/07
Target Location:	REAR PILLAR
Target Code:	RP2
Horizontal Impact Angle:	43°
Vertical Impact Angle:	32°
Ambient Temperature:	22°C
Relative Humidity:	40.3
Time of Impact:	11:20
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	3	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	24				mm up



POST-IMPACT RP2 HEADFORM

Free Motion HIC	873.1
HIC(d)	825.1
Impact Velocity (kph)	23.42
HIC T1 (msec)	4.1
HIC T2 (msec)	9.7

# FMVSS 201U 2007 Toyota Camry C75100 - P\_RP2

FMH Headform 0062

Location: P\_RP2

Test Date: March 14, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 22.0 C

HICd: 825.1

Lab Humidity: 40.3 %

HIC (36ms): 873.1

Velocity at Impact: 23.42 KPH

t1: 4.1 msec

t2: 9.7 msec

Free Flight Distance: 223.41 mm

Duration: 5.6 msec

Maximum: 147.4 g

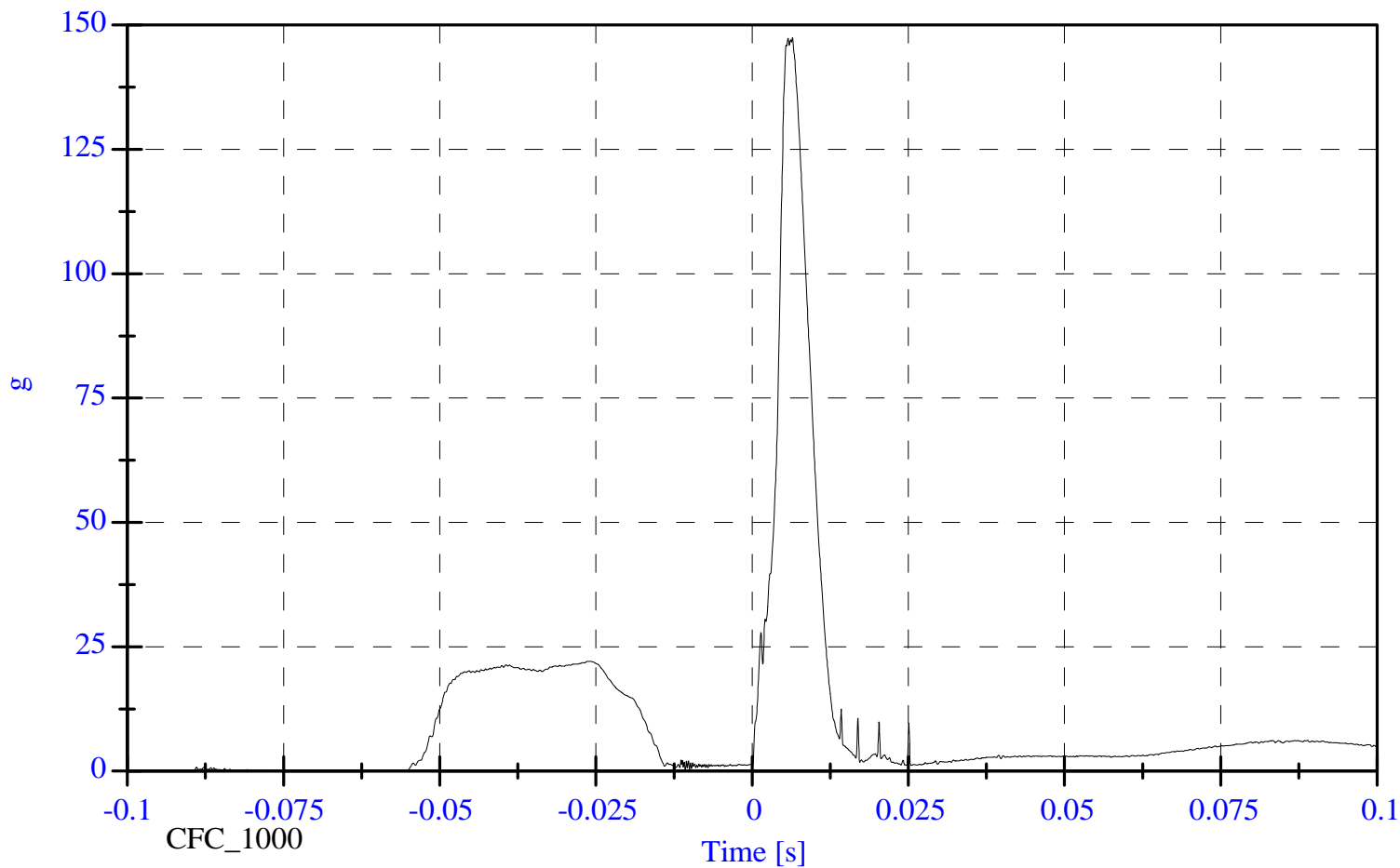
Average Acceleration: 9.7 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 147.4 [g] at 0.006 [s]

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

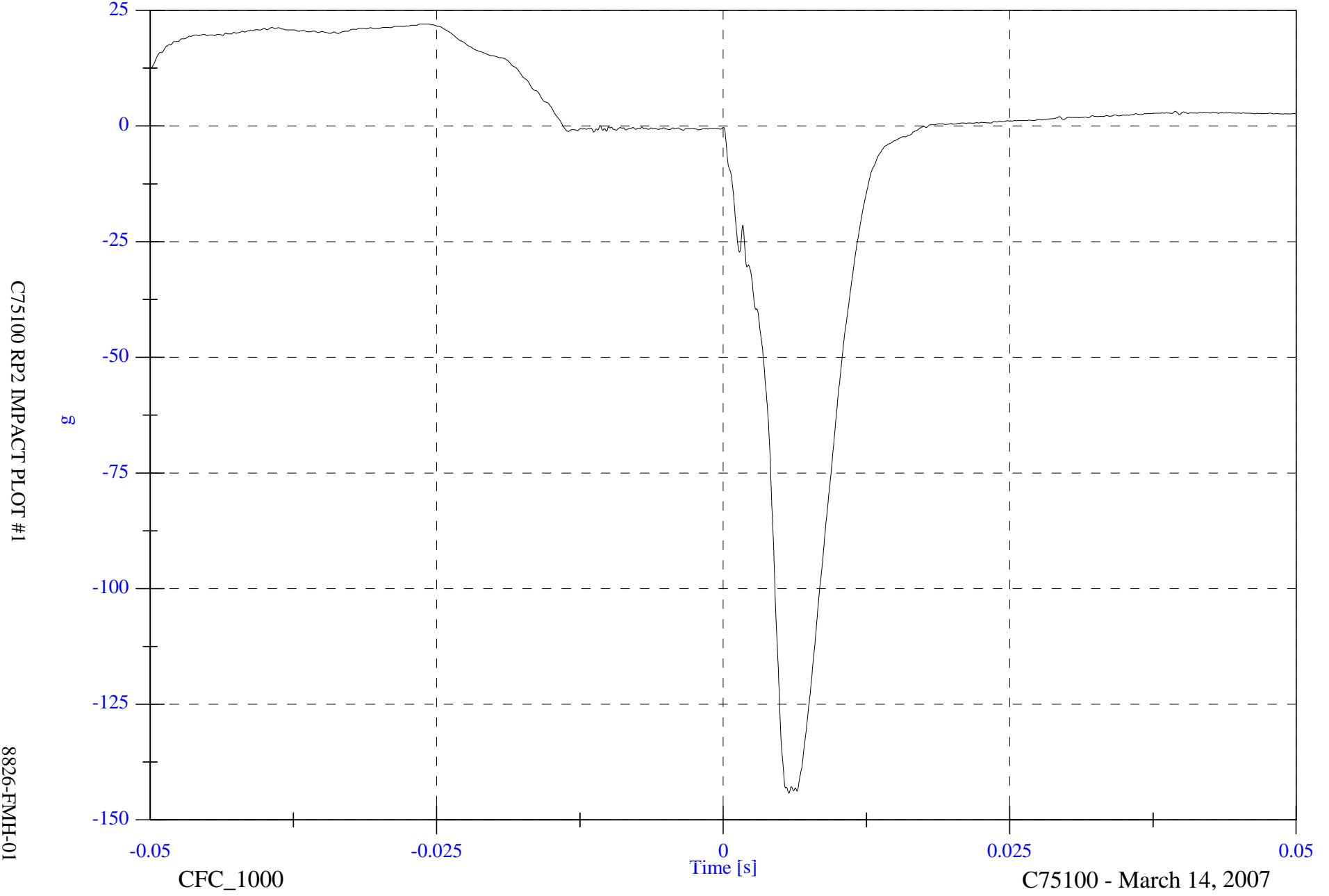


FMVSS 201U 2007 Toyota Camry

Headform X Acceleration

Max: 22.0 [g] at -0.026 [s]

Min: -144.2 [g] at 0.006 [s]



FMVSS 201U 2007 Toyota Camry

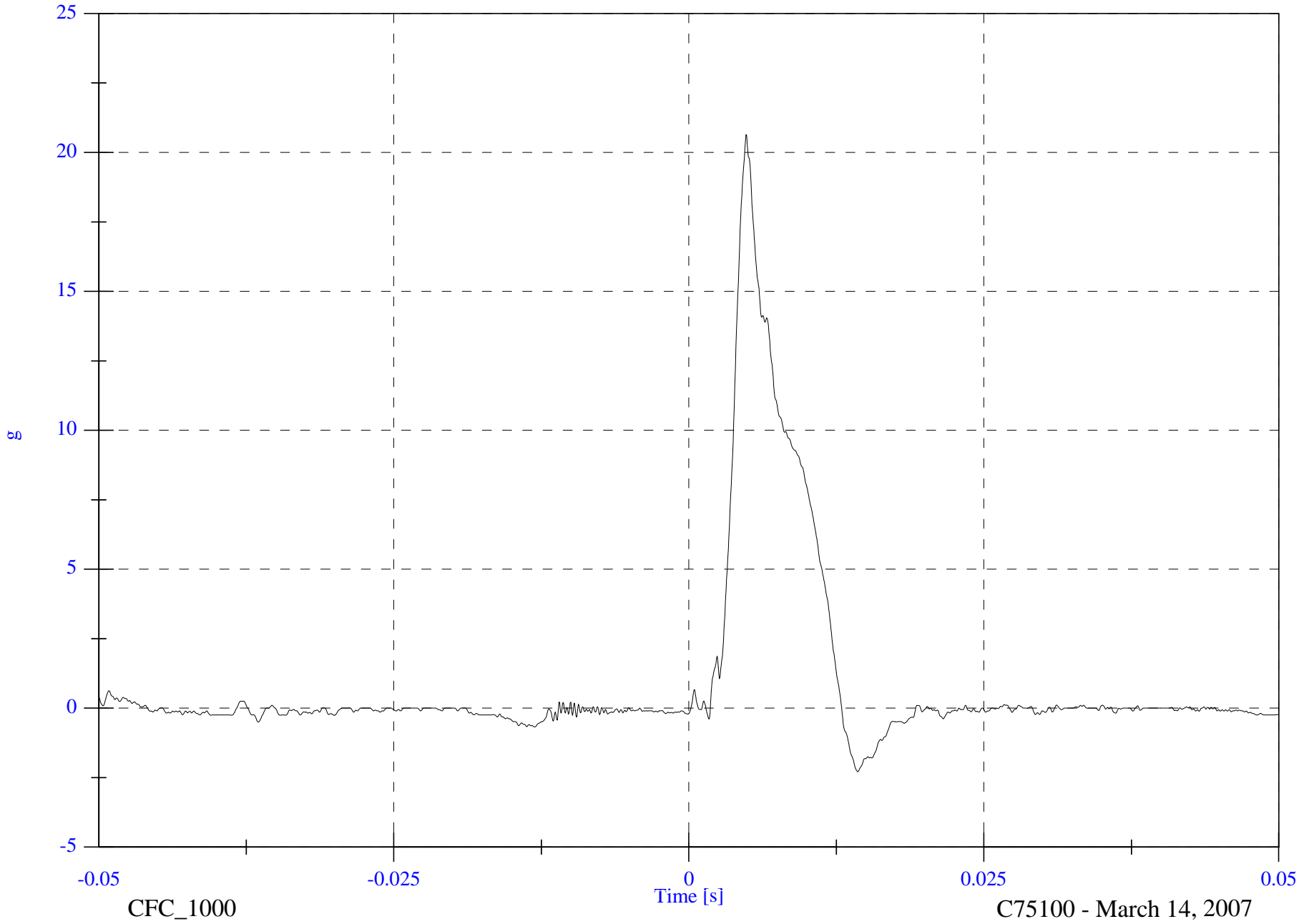
Headform Y Acceleration

Max: 20.6 [g] at 0.005 [s]

Min: -2.3 [g] at 0.014 [s]

C75100 RP2 IMPACT PLOT #2

8826-FMH-01





FMVSS 201U 2007 Toyota Camry

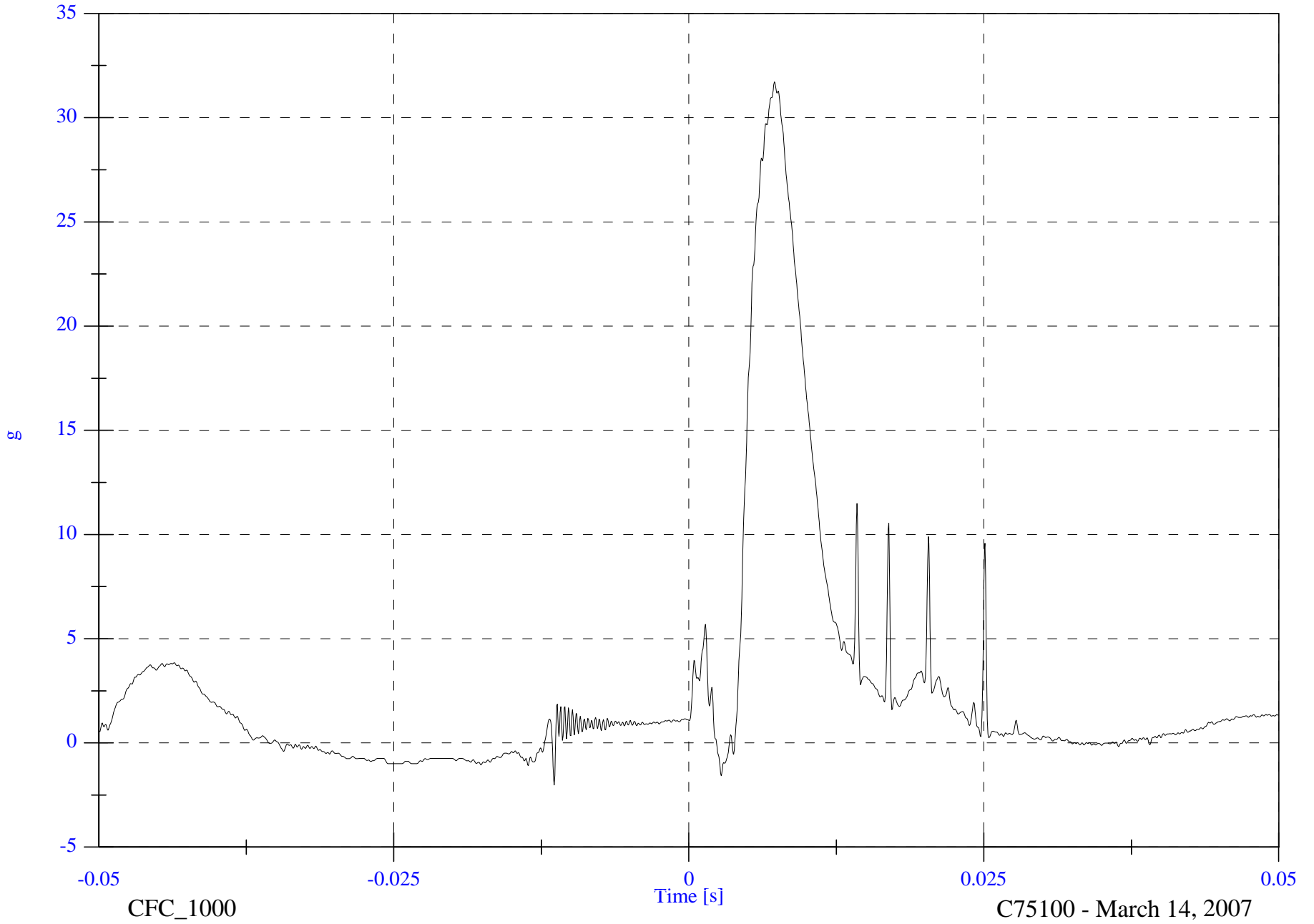
Headform Z Acceleration

Max: 31.7 [g] at 0.007 [s]

Min: -2.0 [g] at -0.011 [s]

C75100 RP2 IMPACT PLOT #3

8826-FMH-01



CFC\_1000

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

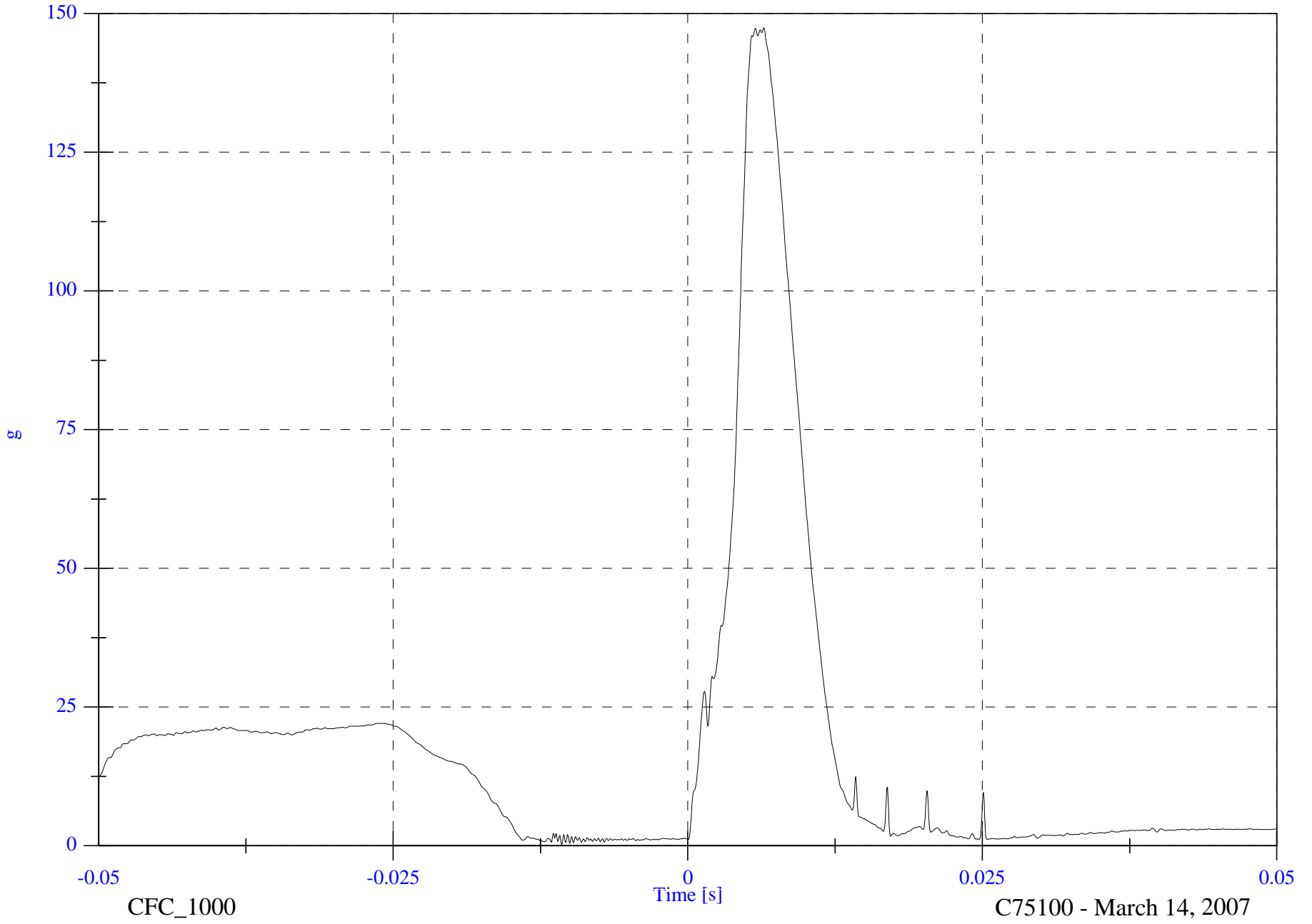
Headform Resultant

Max: 147.4 [g] at 0.006 [s]

Min: 0.2 [g] at -0.011 [s]

C75100 RP2 IMPACT PLOT #4

8826-FMH-01

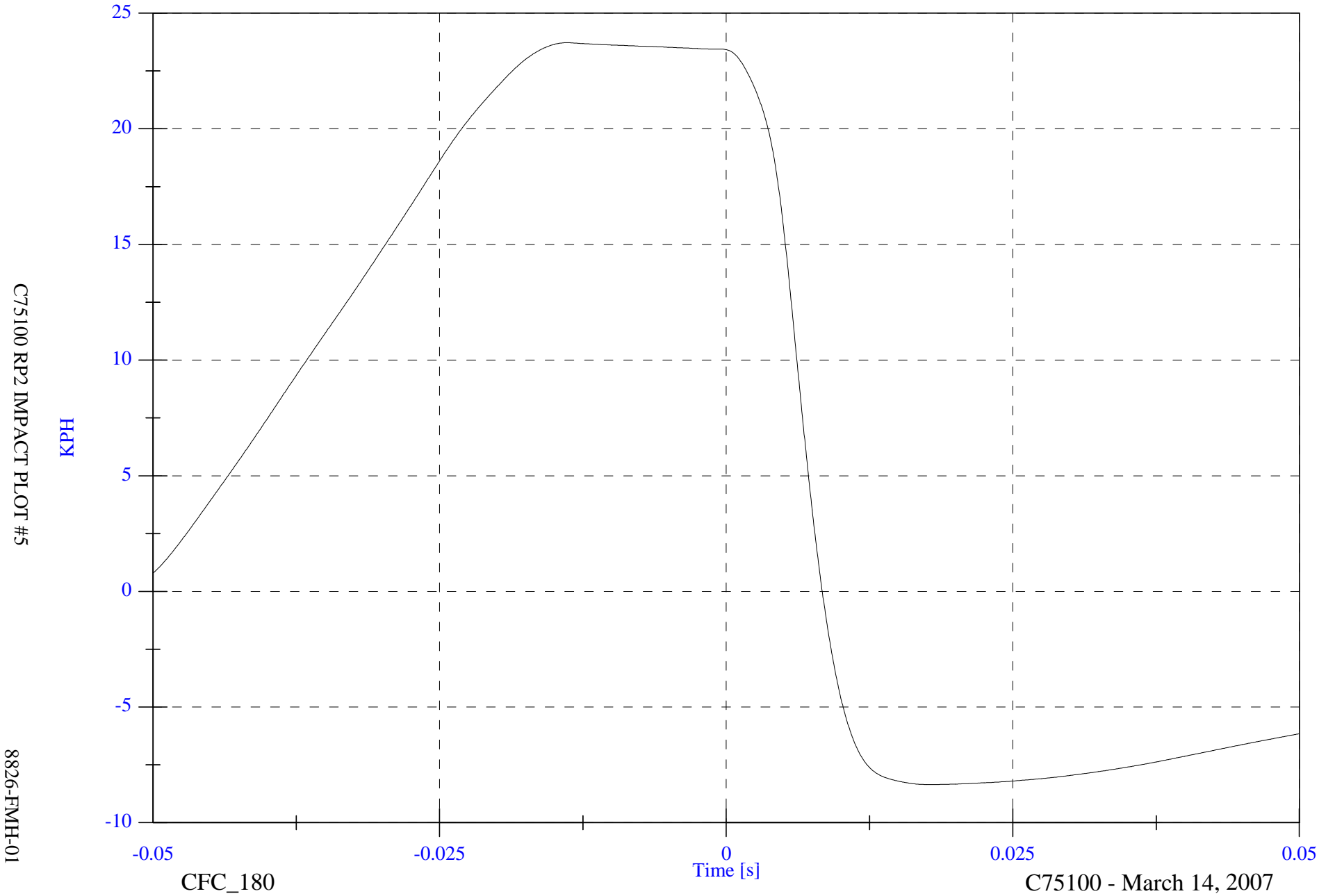


FMVSS 201U 2007 Toyota Camry

### Headform Velocity

Max: 23.7 [KPH] at -0.014 [s]

Min: -8.4 [KPH] at 0.018 [s]



C75100 RP2 IMPACT PLOT #5

8826-FMH-01

CFC\_180

Time [s]

C75100 - March 14, 2007



**PRE-IMPACT RP2**



POST-IMPACT RP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	02
Test Date:	03/14/07
Target Location:	B-PILLAR
Target Code:	BP4
Horizontal Impact Angle:	140°
Vertical Impact Angle:	-4°
Ambient Temperature:	21.2°C
Relative Humidity:	55.2
Time of Impact:	13:30
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	9	mm right	x mm left
On Centerline	10	mm up	



POST-IMPACT BP4 HEADFORM

Free Motion HIC	561.7
HIC(d)	590.2
Impact Velocity (kph)	23.5
HIC T1 (msec)	6.9
HIC T2 (msec)	11.8

# FMVSS 201U 2007 Toyota Camry C75100 - BP4

FMH Headform 0642

Location: BP4

Test Date: March 14, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.2 C

HICd: 590.2

Lab Humidity: 55.2 %

HIC (36ms): 561.7

Velocity at Impact: 23.50 KPH

t1: 6.9 msec

t2: 11.8 msec

Free Flight Distance: 222.23 mm

Duration: 4.9 msec

Maximum: 140.6 g

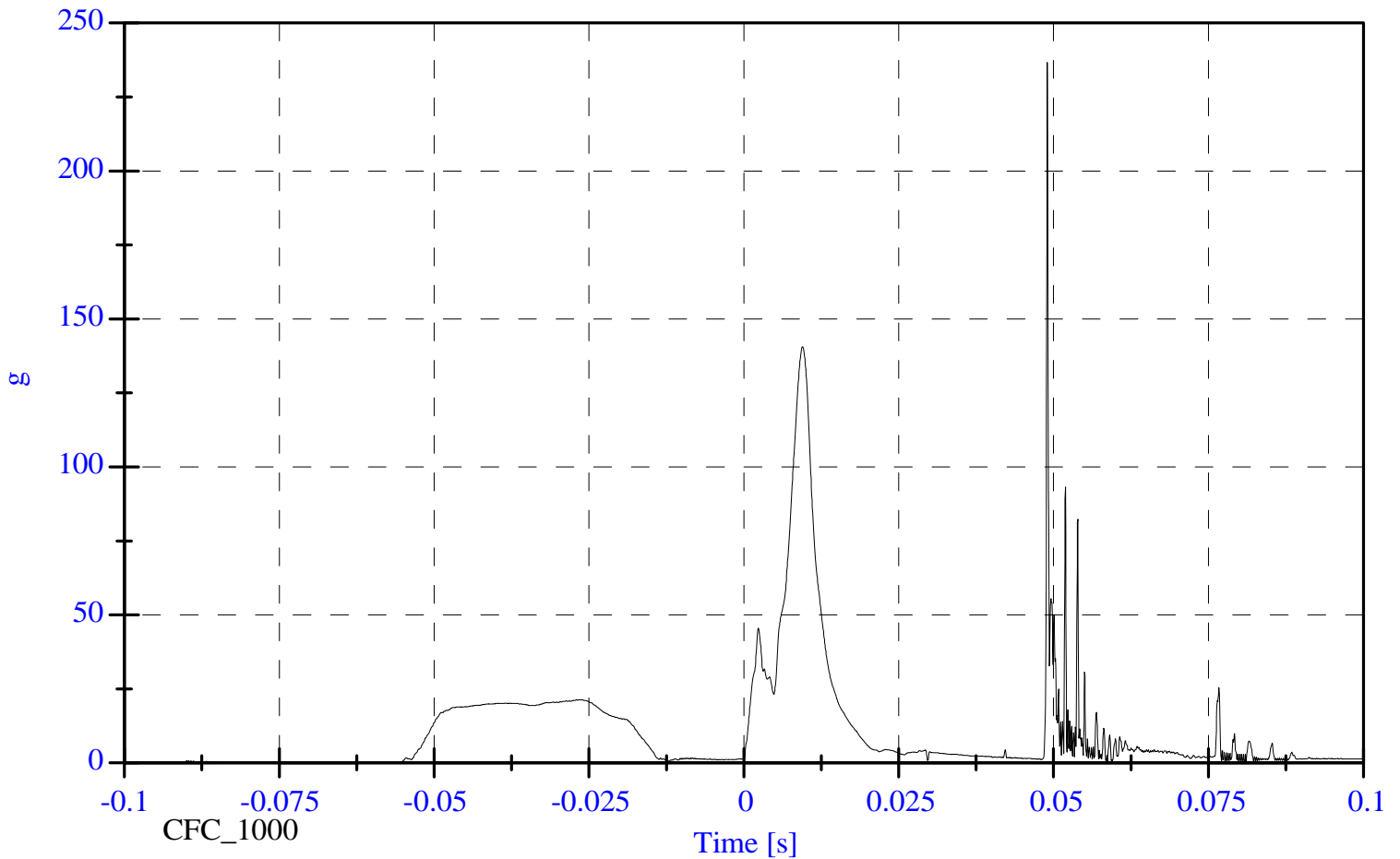
Average Acceleration: 10.2 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 140.6 [g] at 0.009 [s]

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



FMVSS 201U 2007 Toyota Camry

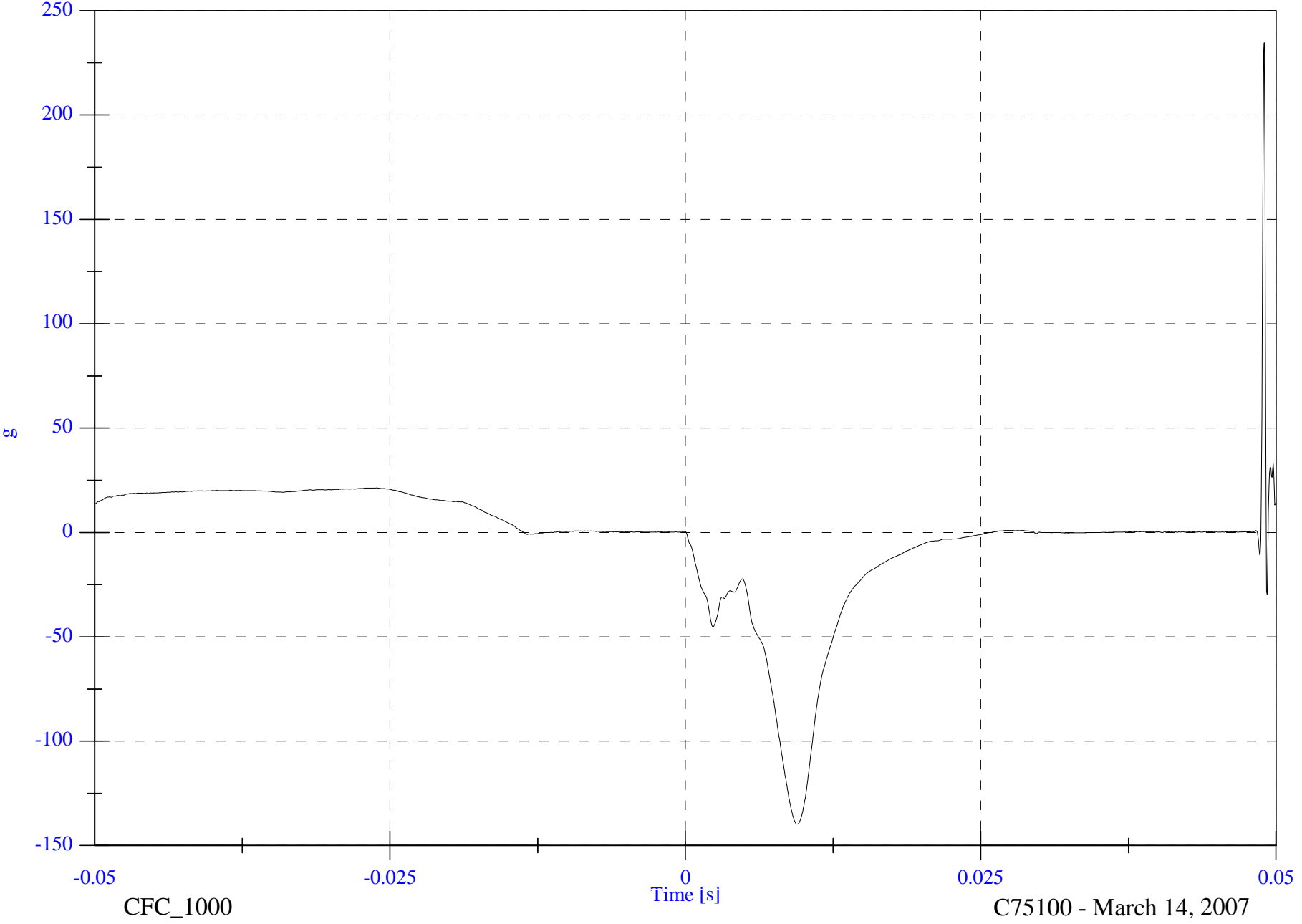
Headform X Acceleration

Max: 234.6 [g] at 0.049 [s]

Min: -139.8 [g] at 0.009 [s]

C75100 BP4 IMPACT PLOT #4

8826-FMH-01



CFC\_1000

C75100 - March 14, 2007



FMVSS 201U 2007 Toyota Camry

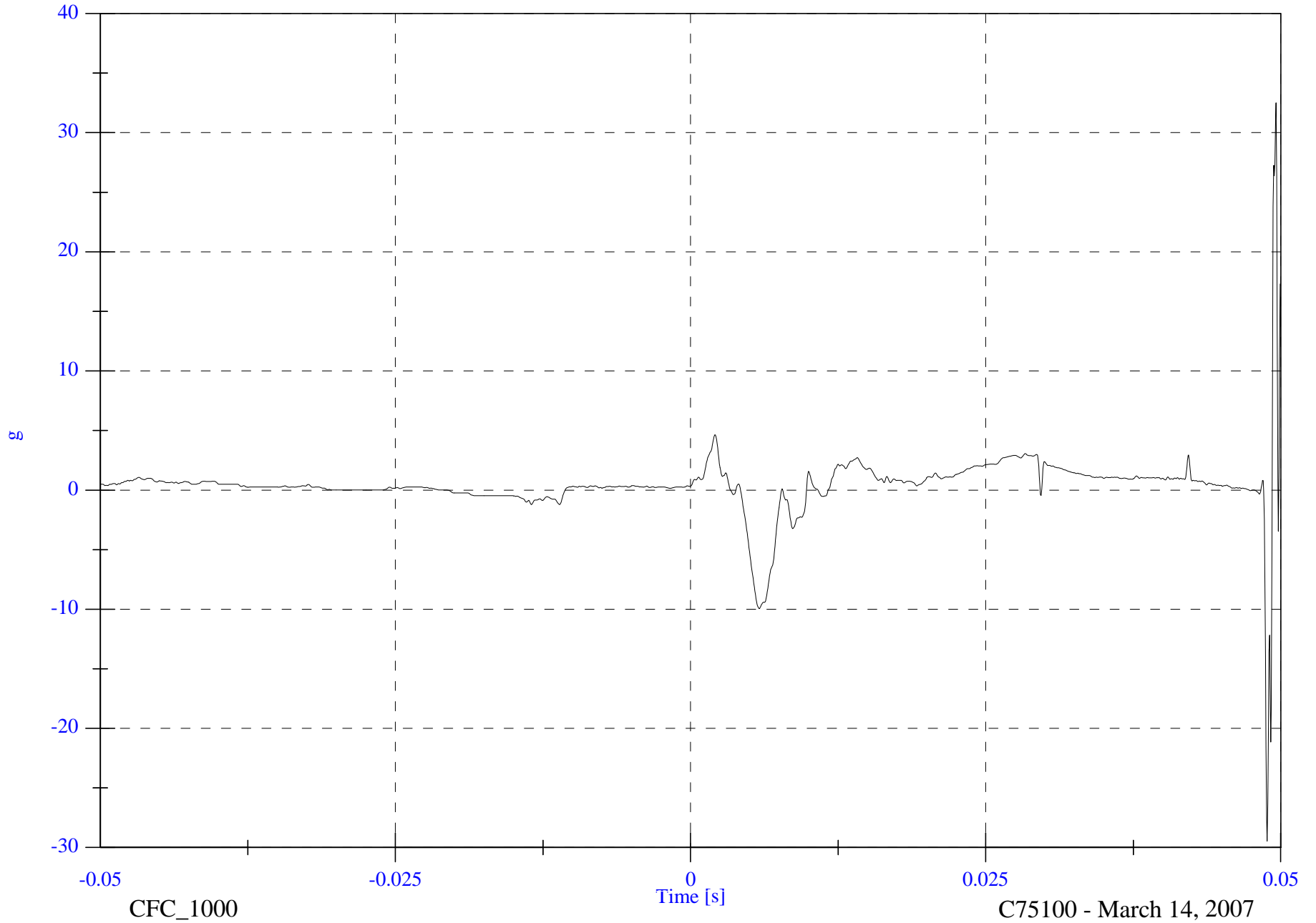
Headform Y Acceleration

Max: 32.5 [g] at 0.050 [s]

Min: -29.5 [g] at 0.049 [s]

C75100 BP4 IMPACT PLOT #5

8826-FMH-01



CFC\_1000

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

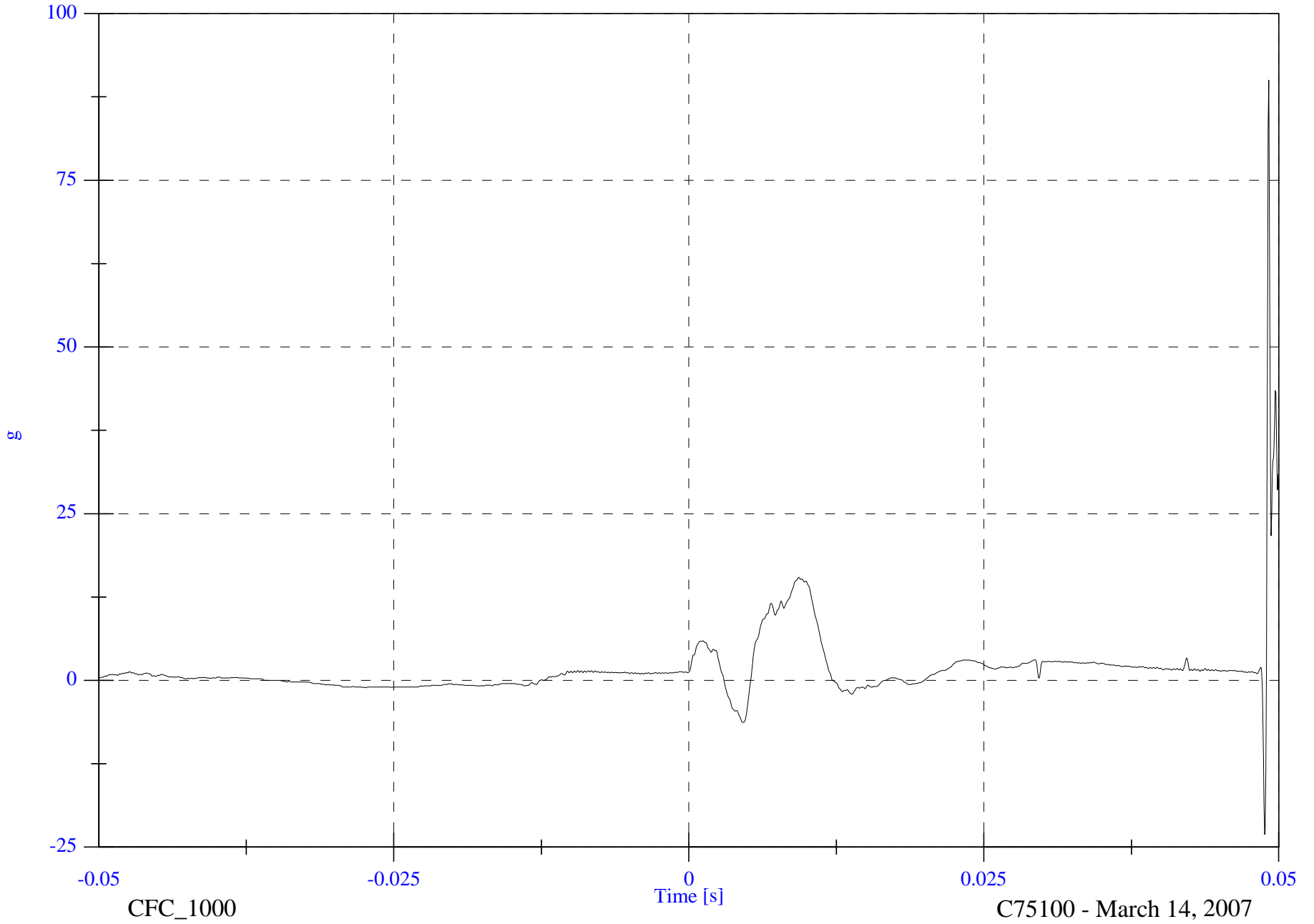
Headform Z Acceleration

Max: 90.0 [g] at 0.049 [s]

Min: -23.1 [g] at 0.049 [s]

C75100 BP4 IMPACT PLOT #6

8826-FMH-01



CFC\_1000

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

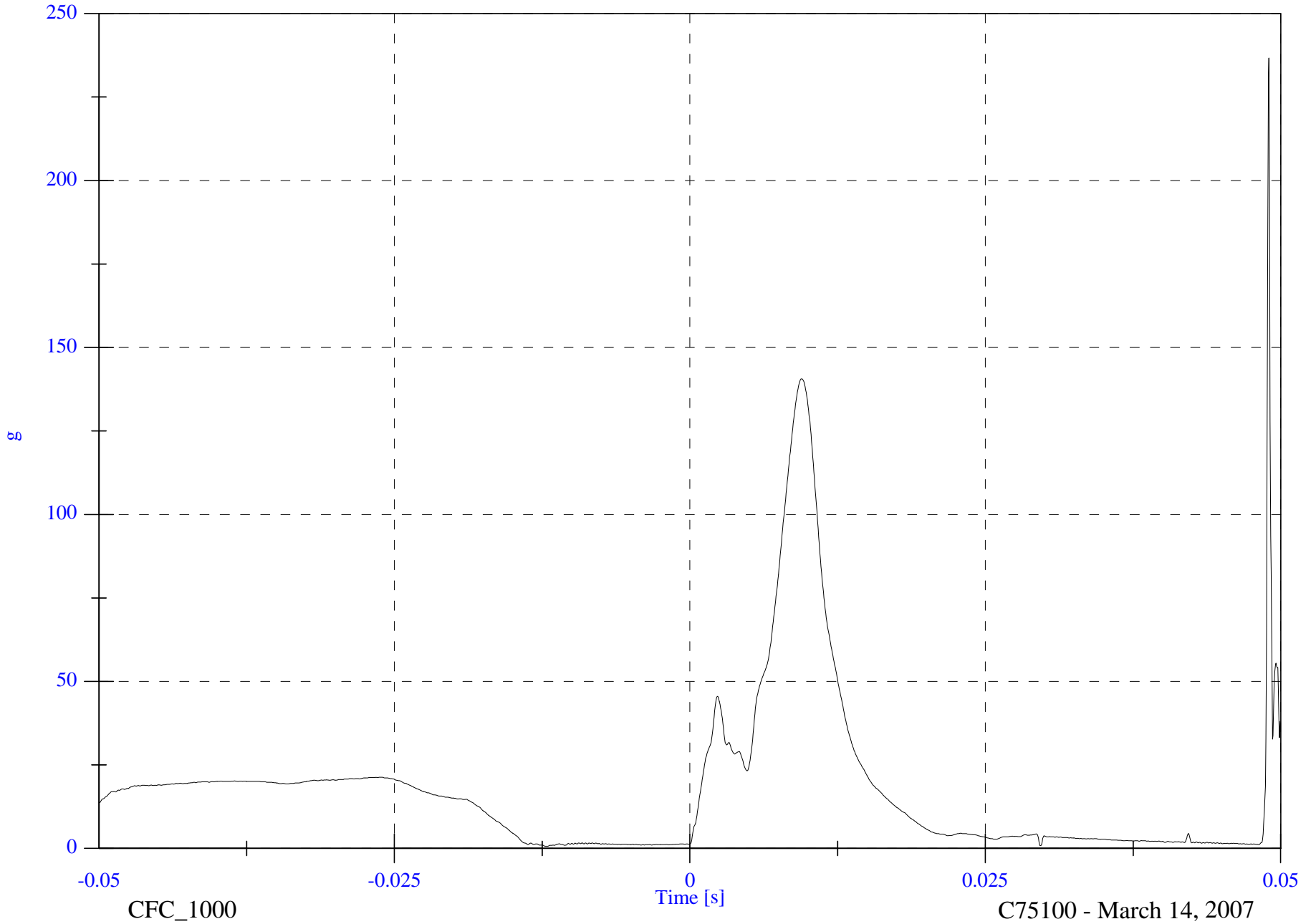
Headform Resultant

Max: 236.7 [g] at 0.049 [s]

Min: 0.6 [g] at -0.012 [s]

C75100 BP4 IMPACT PLOT #7

8826-FMH-01

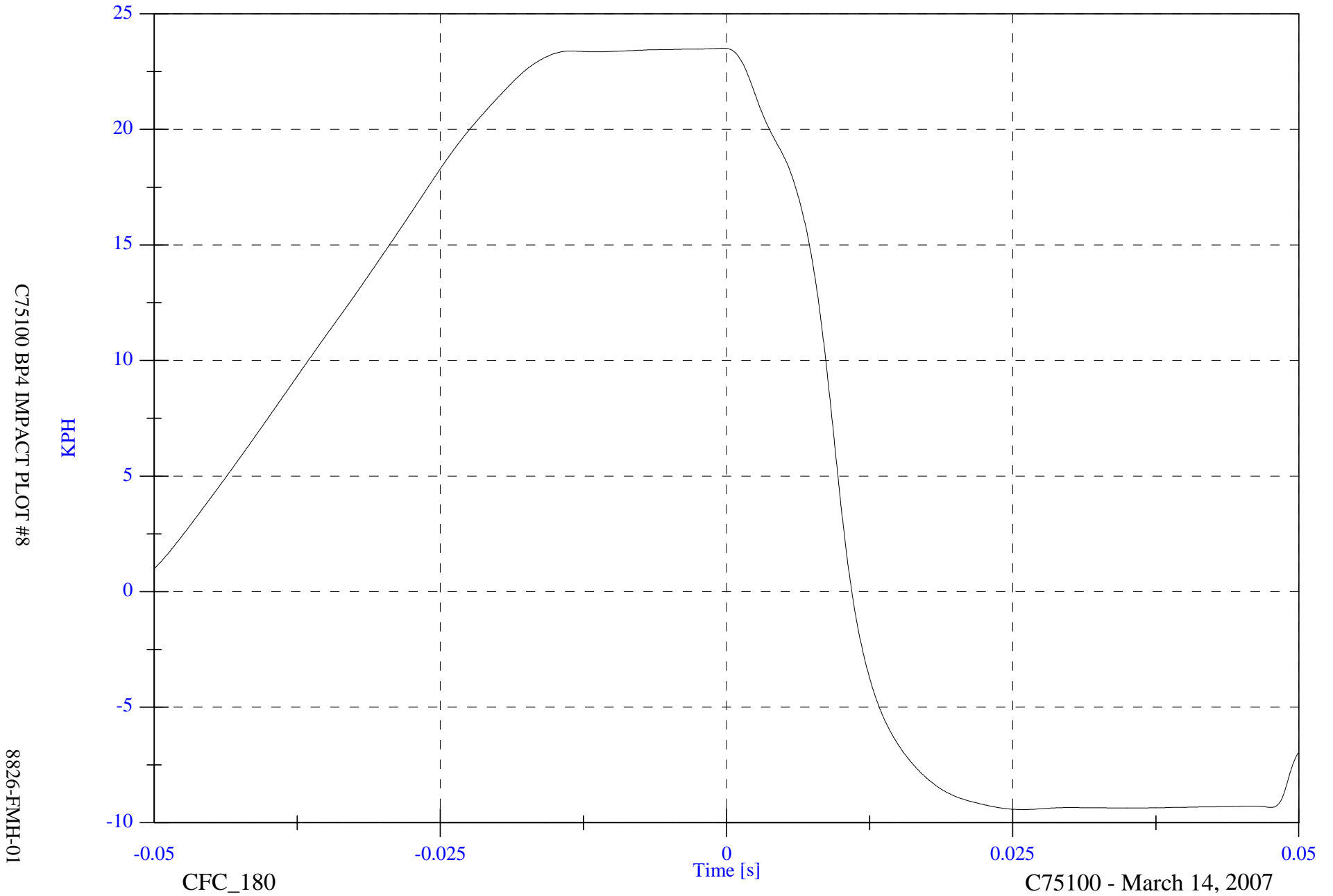


FMVSS 201U 2007 Toyota Camry

### Headform Velocity

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

Min: -9.4 [KPH] at 0.026 [s]



C75100 BP4 IMPACT PLOT #8

8826-FMH-01

CFC\_180

C75100 - March 14, 2007



PRE-IMPACT BP4



POST-IMPACT BP4

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	03
Test Date:	03/14/07
Target Location:	B-PILLAR
Target Code:	BP1
Horizontal Impact Angle:	89°
Vertical Impact Angle:	10°
Ambient Temperature:	20.7°C
Relative Humidity:	58.1
Time of Impact:	14:35
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	0	<input type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	35				mm up



POST-IMPACT BP1 HEADFORM

Free Motion HIC	406.1
HIC(d)	472.8
Impact Velocity (kph)	23.29**
HIC T1 (msec)	4.1
HIC T2 (msec)	13.9

\*\* **BP1** : Ax accelerometer malfunctioned during free-flight but regained functionality during impact. To estimate speed, we overlaid speed data from a similar previous run and performed an interpolation routine.

# FMVSS 201U 2007 Toyota Camry C75100 - BP1

FMH Headform 0805

Location: BP1

Test Date: March 14, 2007

Work File: BP1

## -----TEST RESULTS-----

Lab Temperature: 20.7 C

HICd: 472.8

Lab Humidity: 58.1 %

HIC (36ms): 406.1

Velocity at Impact: 23.29 KPH

t1: 4.1 msec

t2: 13.9 msec

Free Flight Distance: 81.65 mm

Duration: 9.8 msec

Maximum: 94.1 g

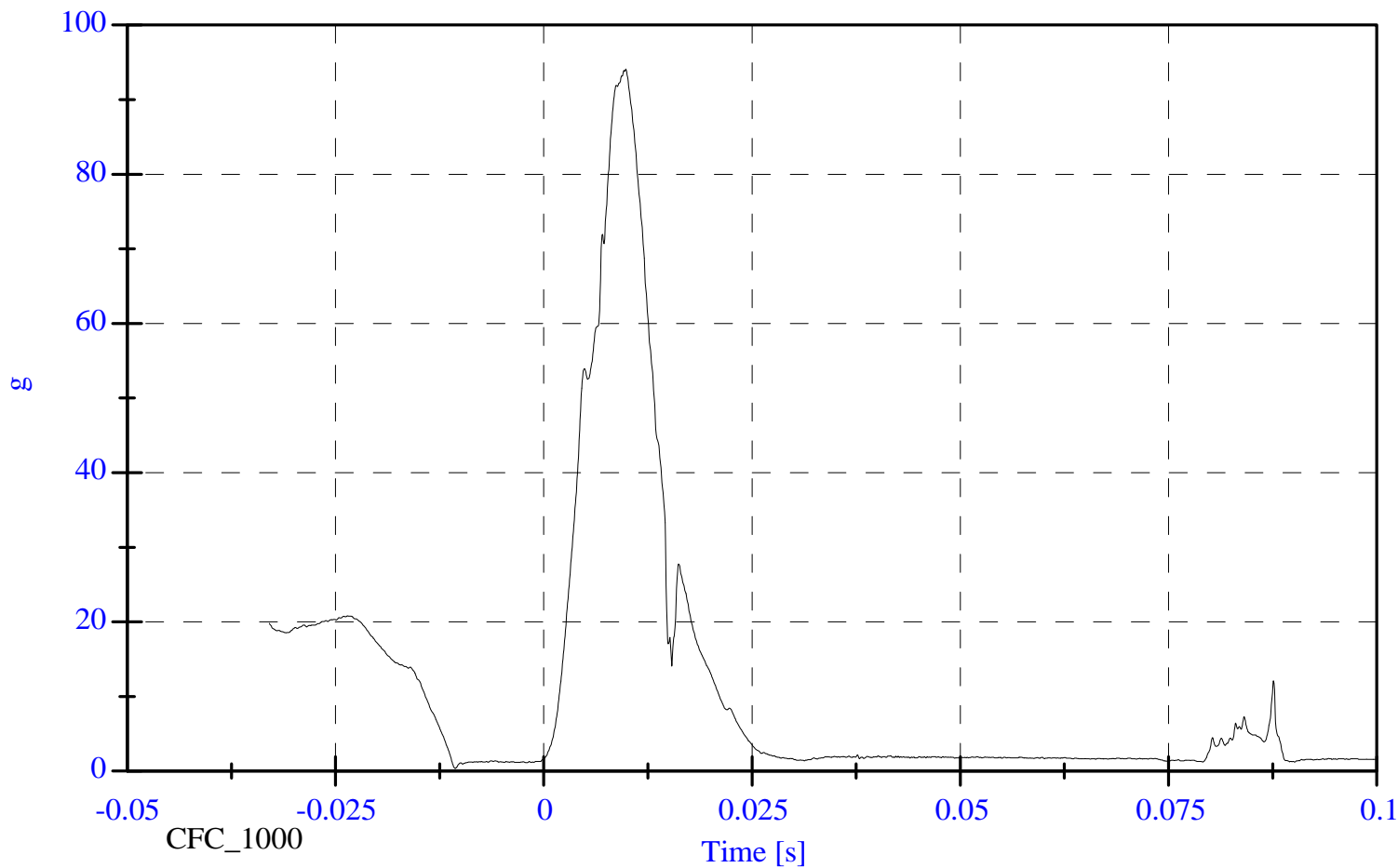
Average Acceleration: 10.9 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 94.1 [g] at 0.010 [s]

Min: 0.3 [g] at -0.011 [s]



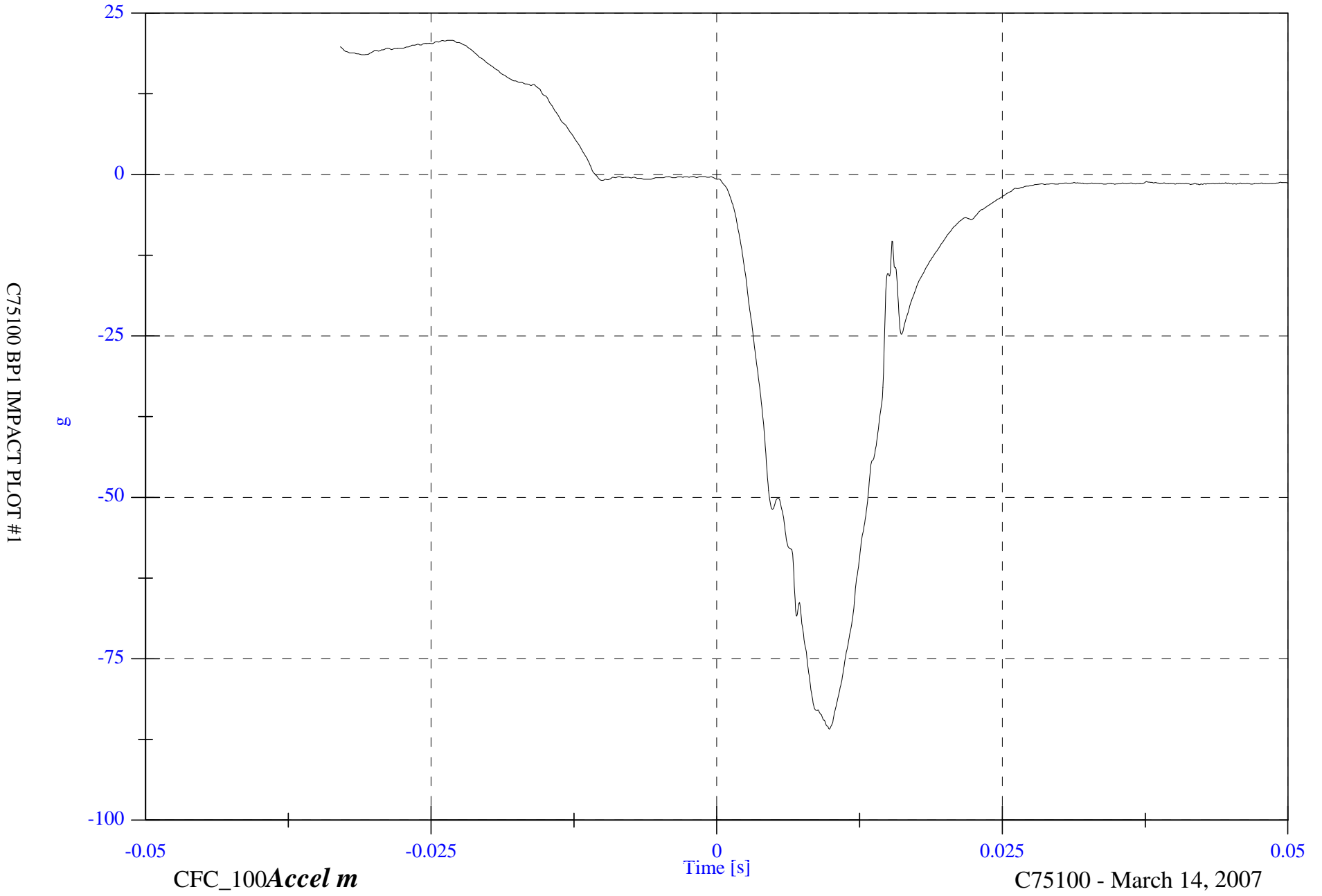


FMVSS 201U 2007 Toyota Camry

Headform X Acceleration

Max: 20.8 [g] at -0.024 [s]

Min: -85.9 [g] at 0.010 [s]

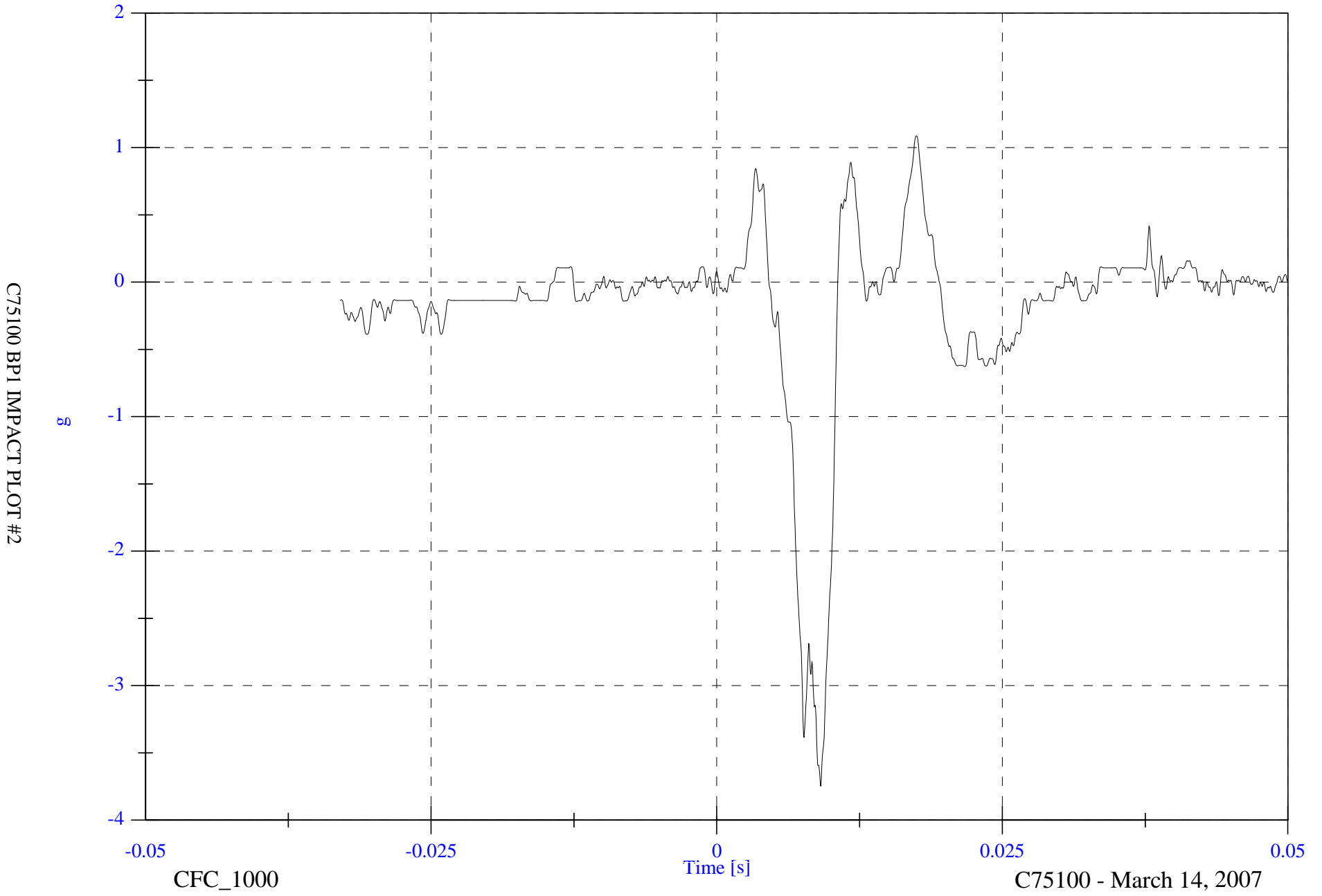


FMVSS 201U 2007 Toyota Camry

Headform Y Acceleration

Max: 1.1 [g] at 0.018 [s]

Min: -3.7 [g] at 0.009 [s]

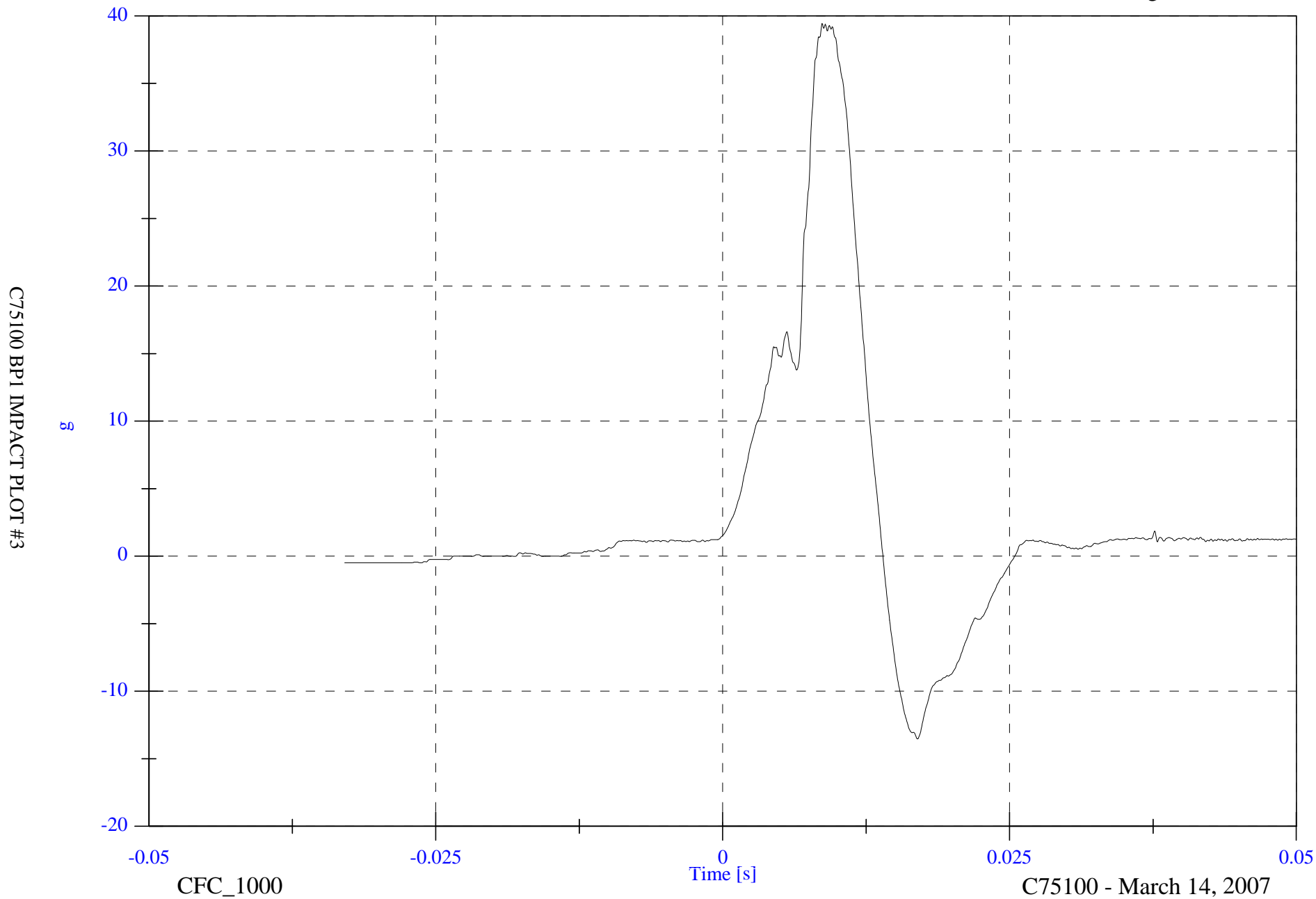


FMVSS 201U 2007 Toyota Camry

Headform Z Acceleration

Max: 39.4 [g] at 0.009 [s]

Min: -13.5 [g] at 0.017 [s]



FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 94.1 [g] at 0.010 [s]

Min: 0.3 [g] at -0.011 [s]





PRE-IMPACT BP1



POST-IMPACT BP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	04
Test Date:	03/14/07
Target Location:	SIDE RAIL
Target Code:	SR2A
Horizontal Impact Angle:	90°
Vertical Impact Angle:	44°
Ambient Temperature:	20.0°C
Relative Humidity:	54.8
Time of Impact:	15:57
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	0	<input type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	25				mm up



POST-IMPACT SR2A HEADFORM

Free Motion HIC	343.7
HIC(d)	425.7
Impact Velocity (kph)	18.50
HIC T1 (msec)	3.7
HIC T2 (msec)	12.9

# FMVSS 201U 2007 Toyota Camry C75100 - SR2A

FMH Headform 1255

Location: SR2A

Test Date: March 14, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 20.0 C

HICd: 425.7

Lab Humidity: 54.8 %

HIC (36ms): 343.7

Velocity at Impact: 18.50 KPH

t1: 3.7 msec

t2: 12.9 msec

Free Flight Distance: 214.88 mm

Duration: 9.2 msec

Maximum: 94.3 g

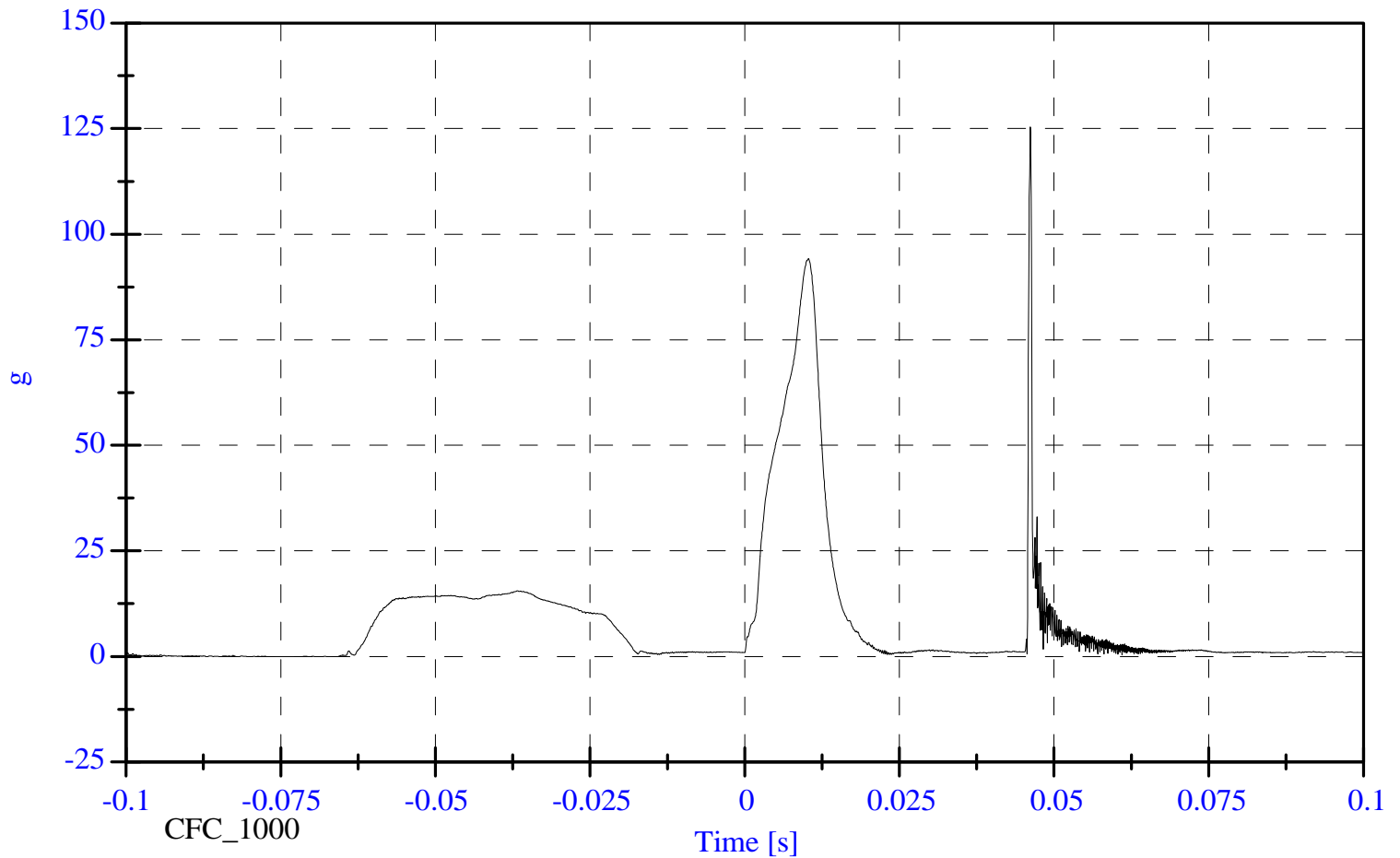
Average Acceleration: 7.8 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 94.3 [g] at 0.010 [s]

Min: -0.0 [g] at -0.076 [s]





FMVSS 201U 2007 Toyota Camry

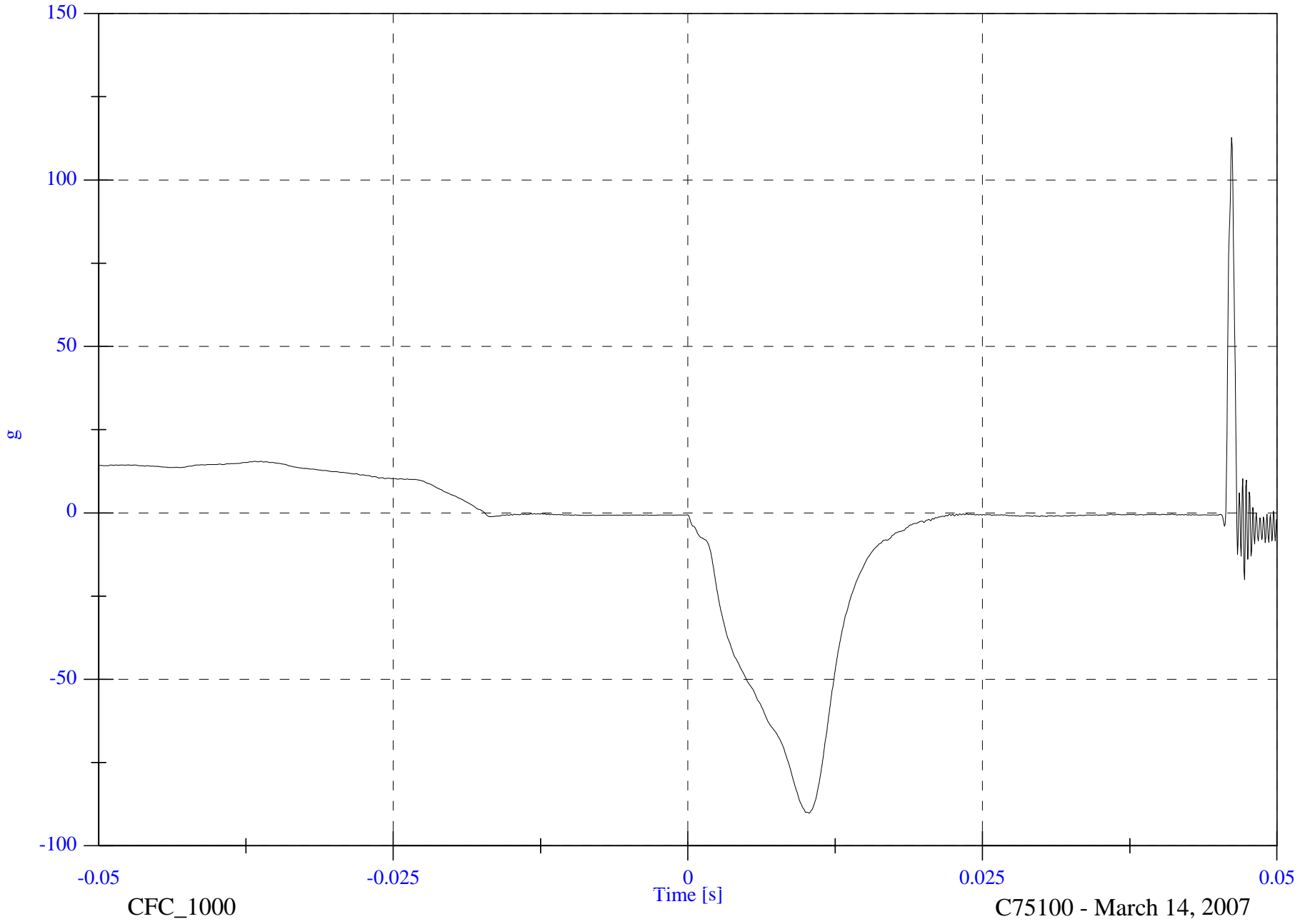
Headform X Acceleration

Max: 112.7 [g] at 0.046 [s]

Min: -90.2 [g] at 0.010 [s]

C75100 SR2A IMPACT PLOT #1

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

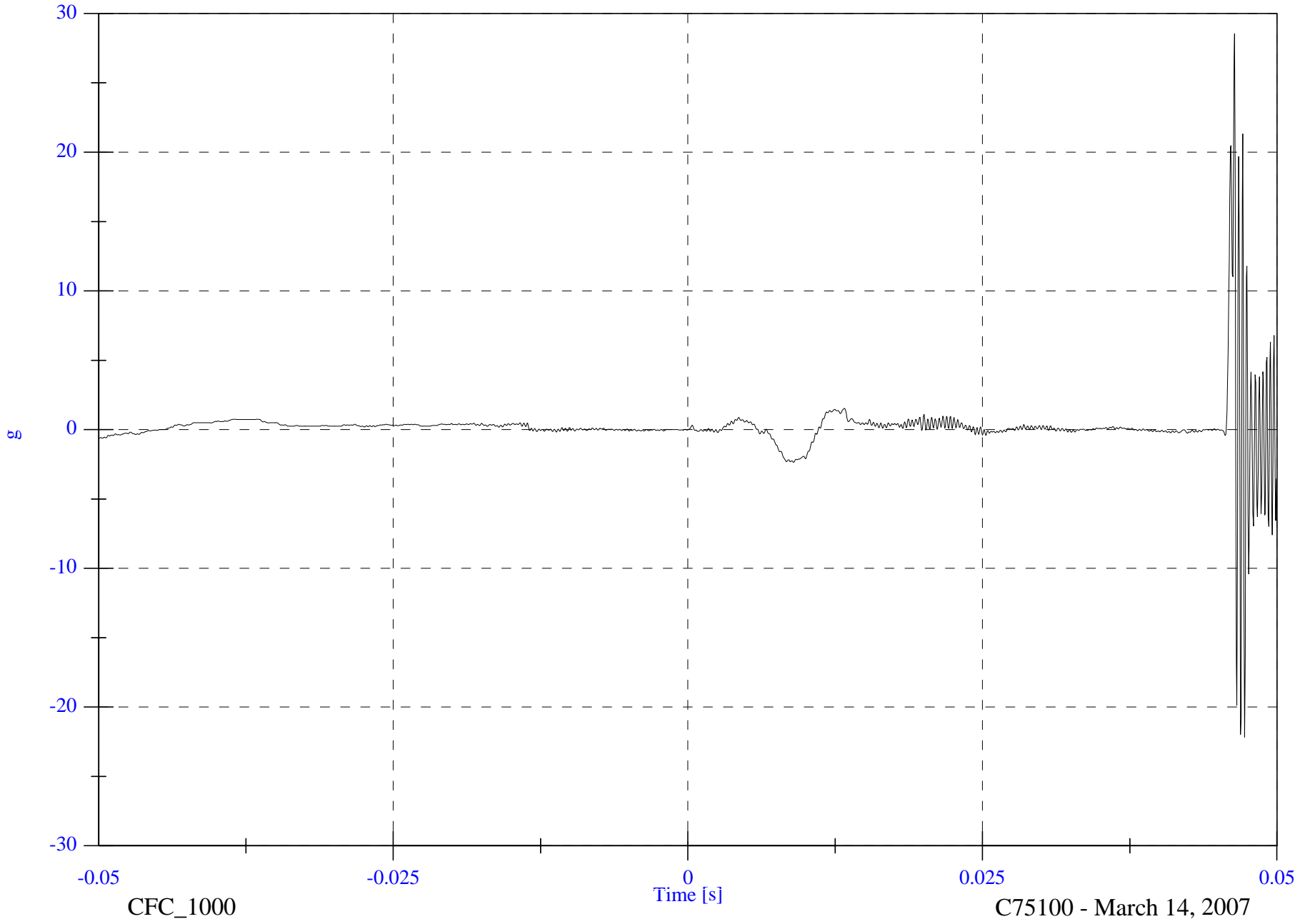
Headform Y Acceleration

Max: 28.6 [g] at 0.046 [s]

Min: -22.2 [g] at 0.047 [s]

C75100 SR2A IMPACT PLOT #2

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

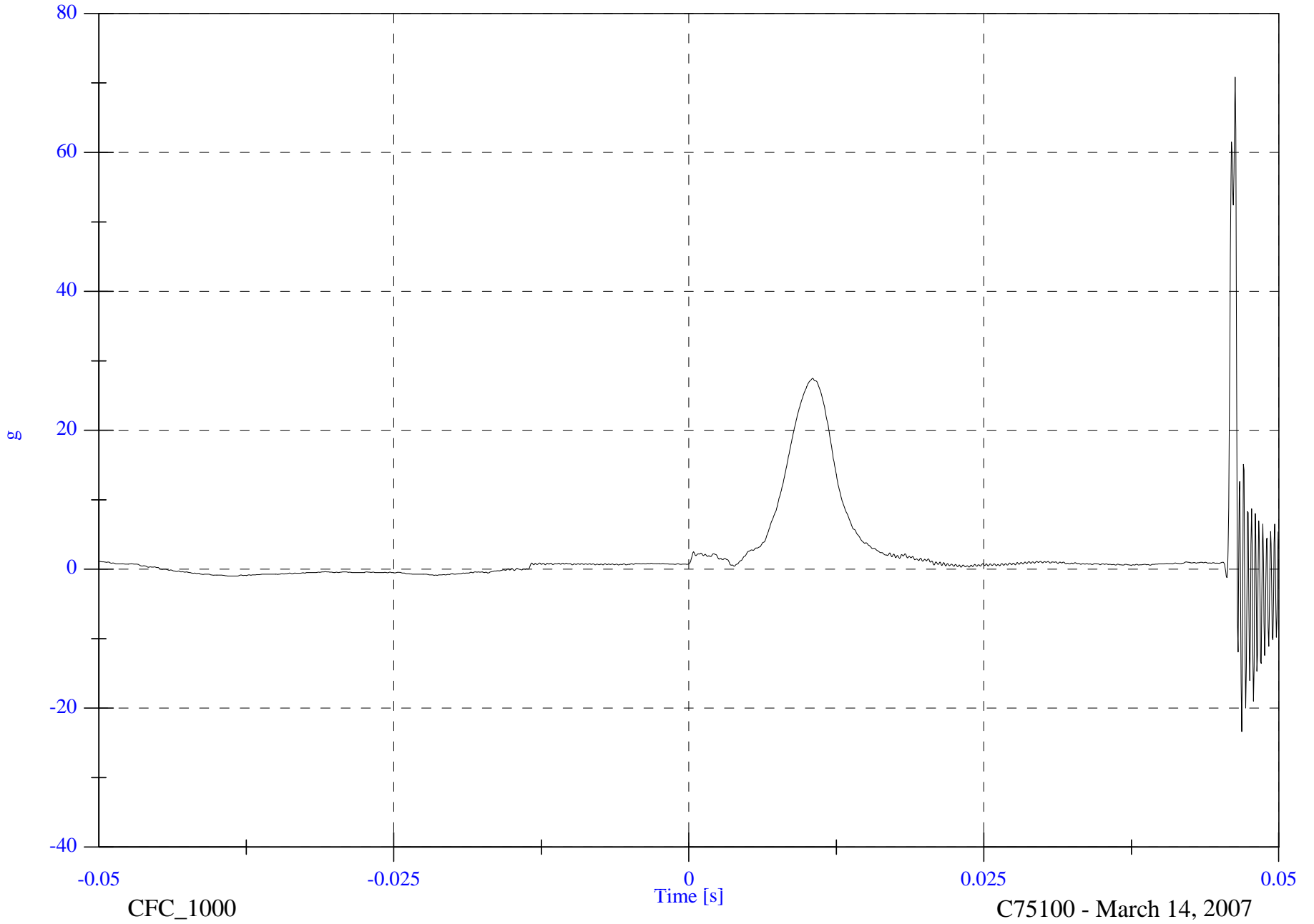
Headform Z Acceleration

Max: 70.8 [g] at 0.046 [s]

Min: -23.4 [g] at 0.047 [s]

C75100 SR2A IMPACT PLOT #3

8826-FMH-01



CFC\_1000

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

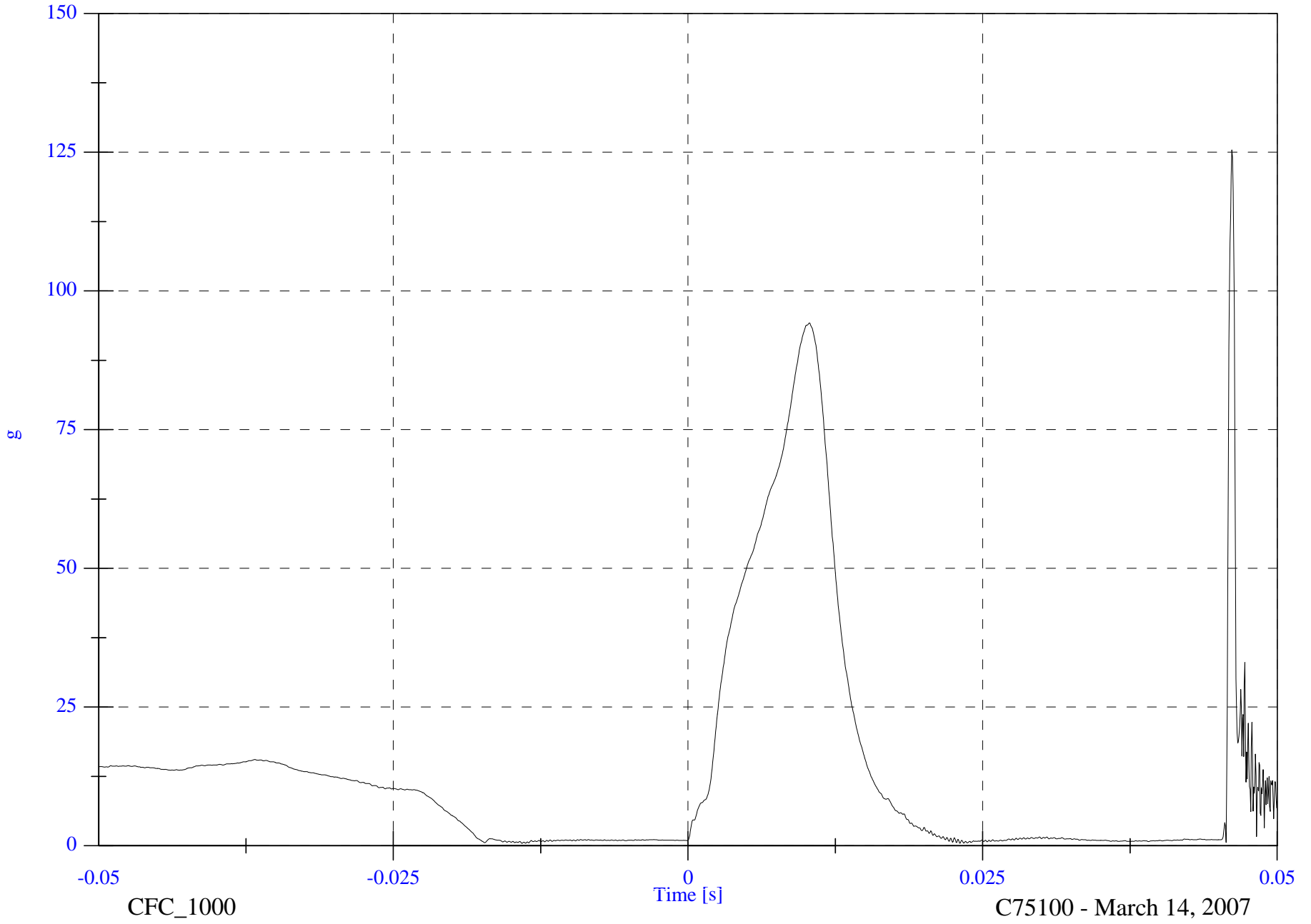
Headform Resultant

Max: 125.4 [g] at 0.046 [s]

Min: 0.4 [g] at -0.014 [s]

C75100 SR2A IMPACT PLOT #4

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

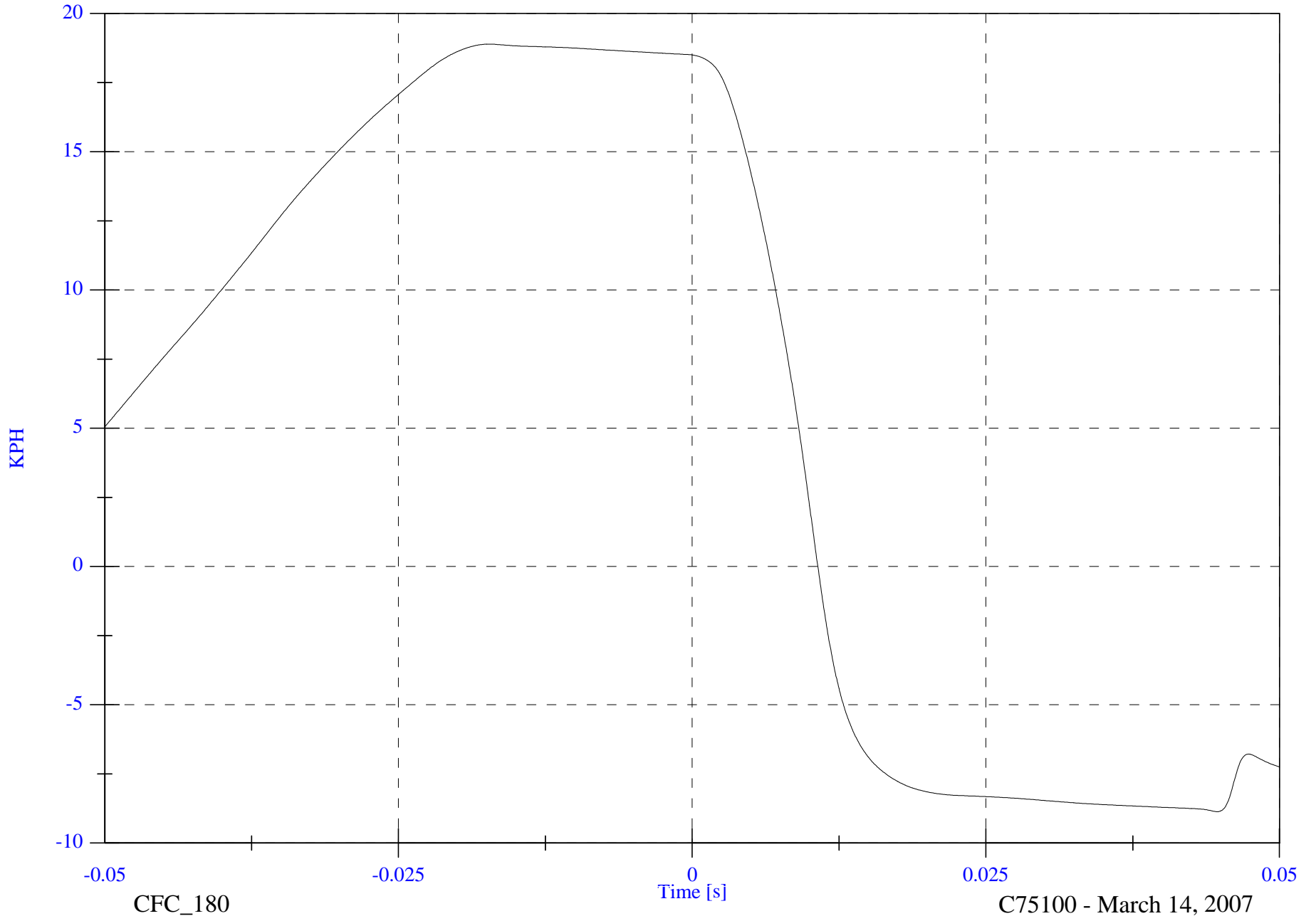
### Headform Velocity

Max: 18.9 [KPH] at -0.017 [s]

Min: -8.9 [KPH] at 0.045 [s]

C75100 SR2A IMPACT PLOT #5

8826-FMH-01



CFC\_180

Time [s]

C75100 - March 14, 2007



PRE-IMPACT SR2A



POST-IMPACT SR2A

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	05
Test Date:	03/14/07
Target Location:	A-PILLAR
Target Code:	AP3
Horizontal Impact Angle:	137°
Vertical Impact Angle:	37°
Ambient Temperature:	20.2°C
Relative Humidity:	56.5
Time of Impact:	16:43
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	3	<input checked="" type="checkbox"/>	mm right <input type="checkbox"/> mm left
On Centerline	17		mm up



POST-IMPACT AP3 HEADFORM

Free Motion HIC	170.2
HIC(d)	294.8
Impact Velocity (kph)	18.9
HIC T1 (msec)	9.5
HIC T2 (msec)	15.4



# FMVSS 201U 2007 Toyota Camry C75100 - AP3

FMH Headform 0062

Location: AP3

Test Date: March 14, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 20.2 C

HICd: 294.8

Lab Humidity: 56.5 %

HIC (36ms): 170.2

Velocity at Impact: 18.90 KPH

t1: 9.5 msec

t2: 15.4 msec

Free Flight Distance: 225.56 mm

Duration: 5.9 msec

Maximum: 78.4 g

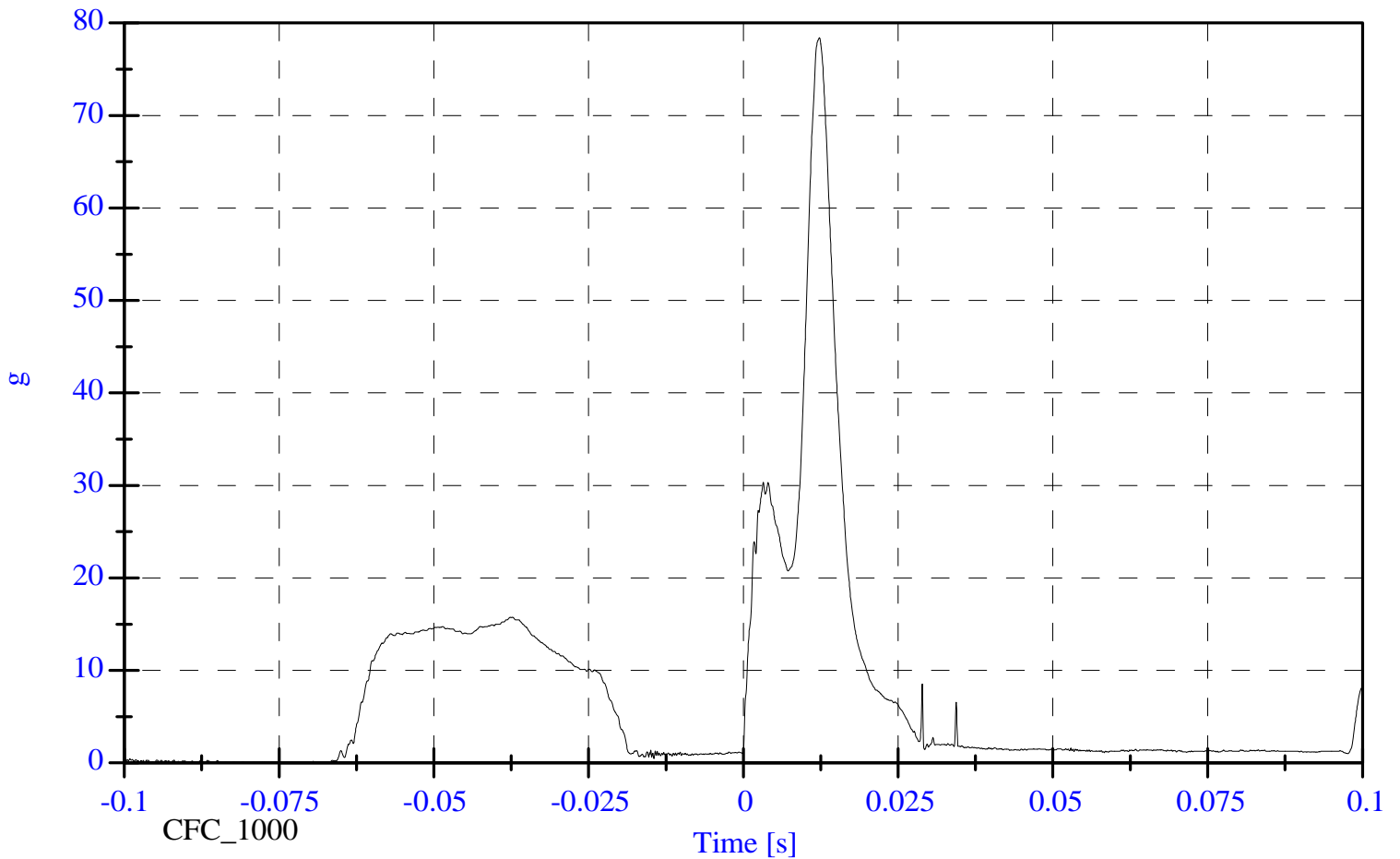
Average Acceleration: 7.0 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 78.4 [g] at 0.012 [s]

Min: 0.0 [g] at -0.070 [s]



FMVSS 201U 2007 Toyota Camry

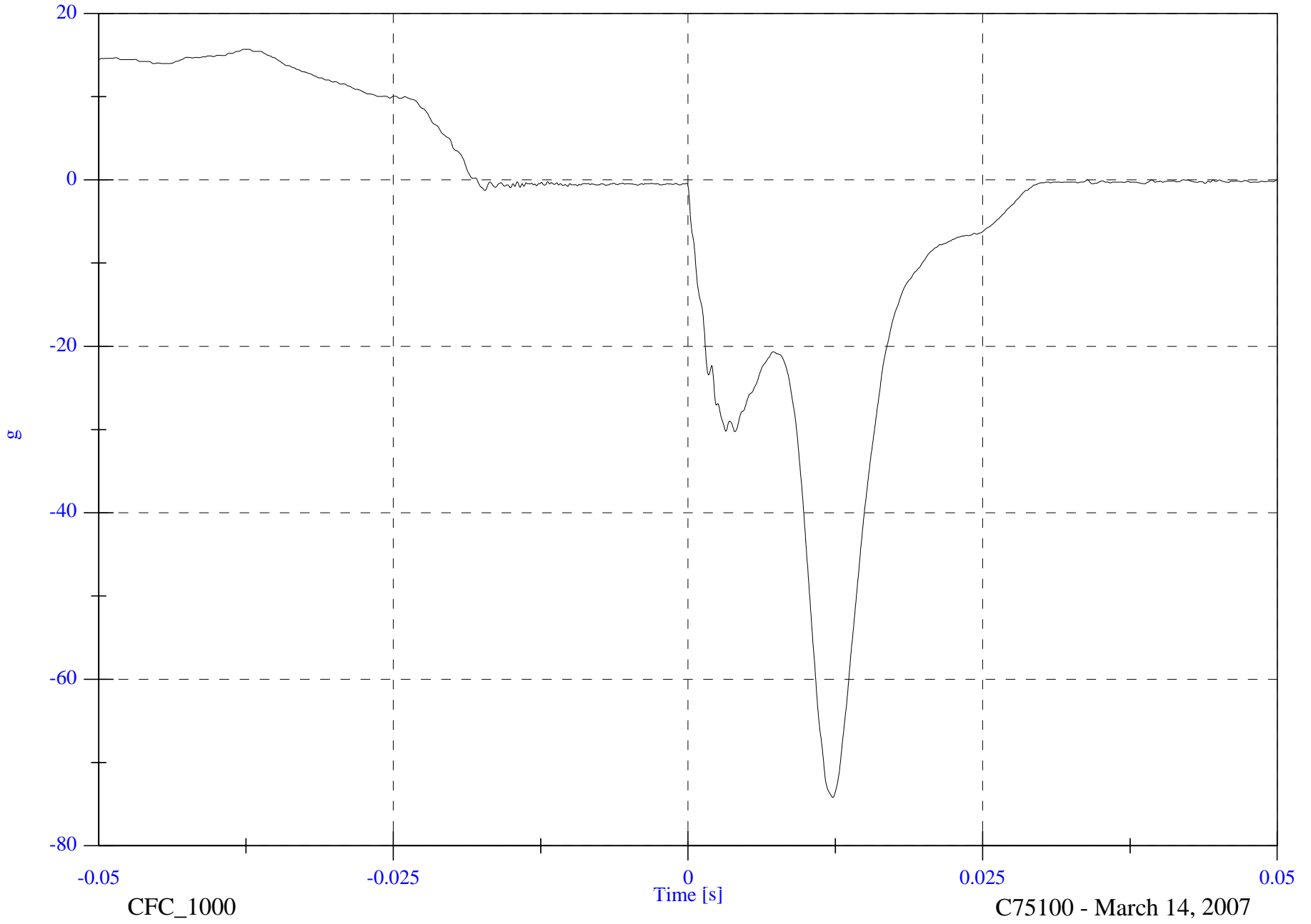
Headform X Acceleration

Max: 15.7 [g] at -0.037 [s]

Min: -74.2 [g] at 0.012 [s]

C75100 AP3 IMPACT PLOT #1

8826-FMH-01



CFC\_1000

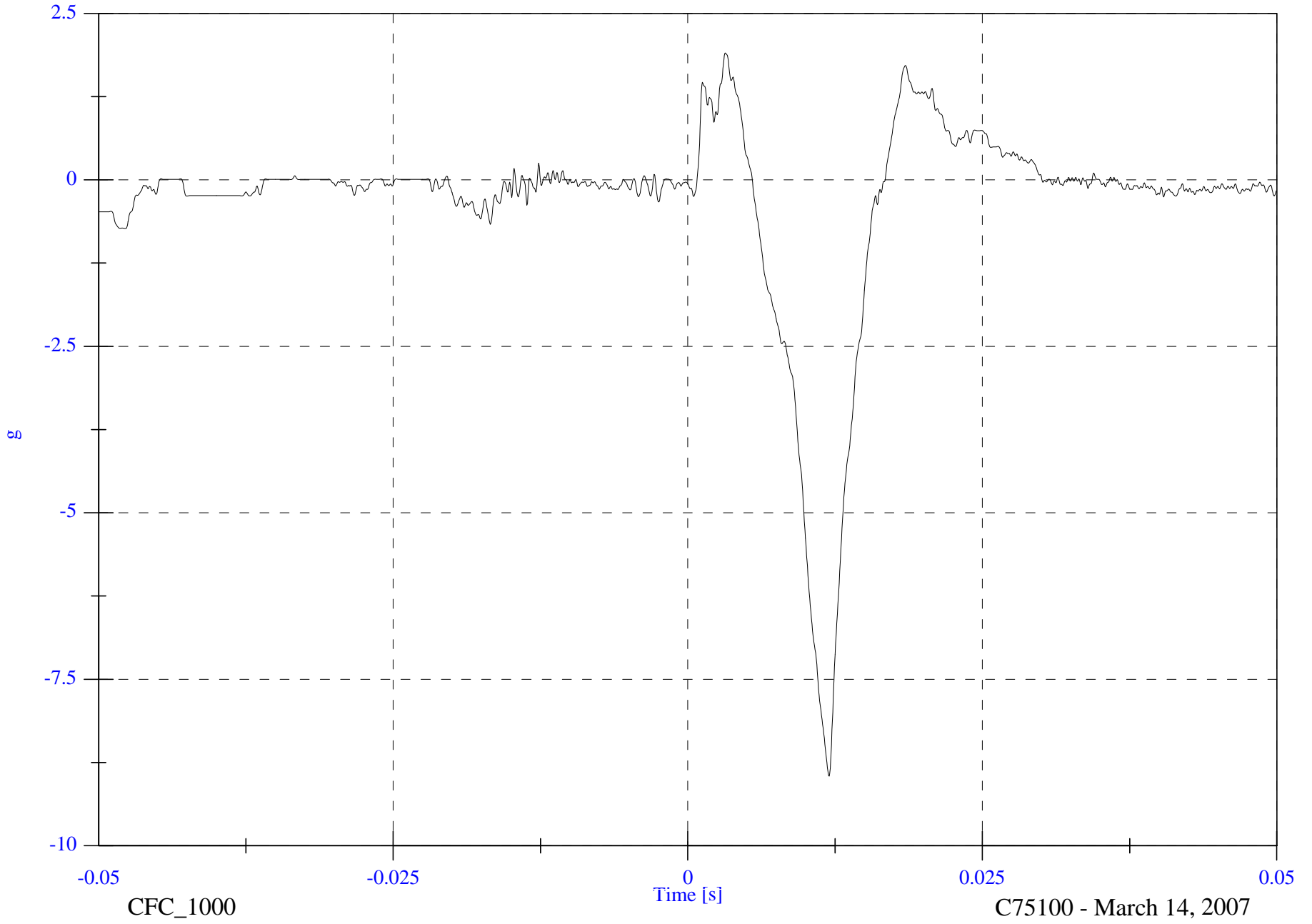
C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

Headform Y Acceleration

Max: 1.9 [g] at 0.003 [s]

Min: -9.0 [g] at 0.012 [s]



C75100 AP3 IMPACT PLOT #2

8826-FMH-01

CFC\_1000

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

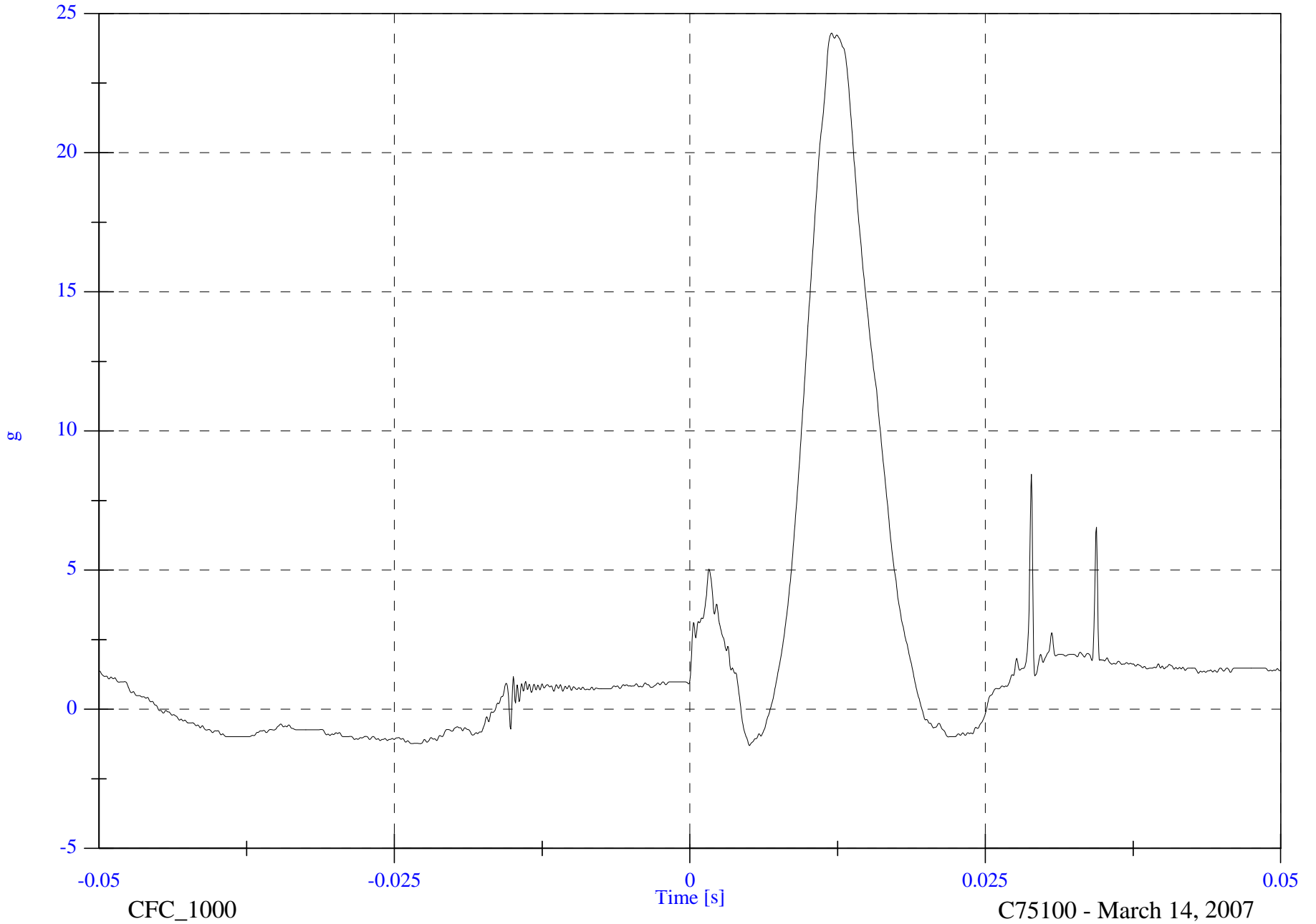
Headform Z Acceleration

Max: 24.3 [g] at 0.012 [s]

Min: -1.3 [g] at 0.005 [s]

C75100 AP3 IMPACT PLOT #3

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

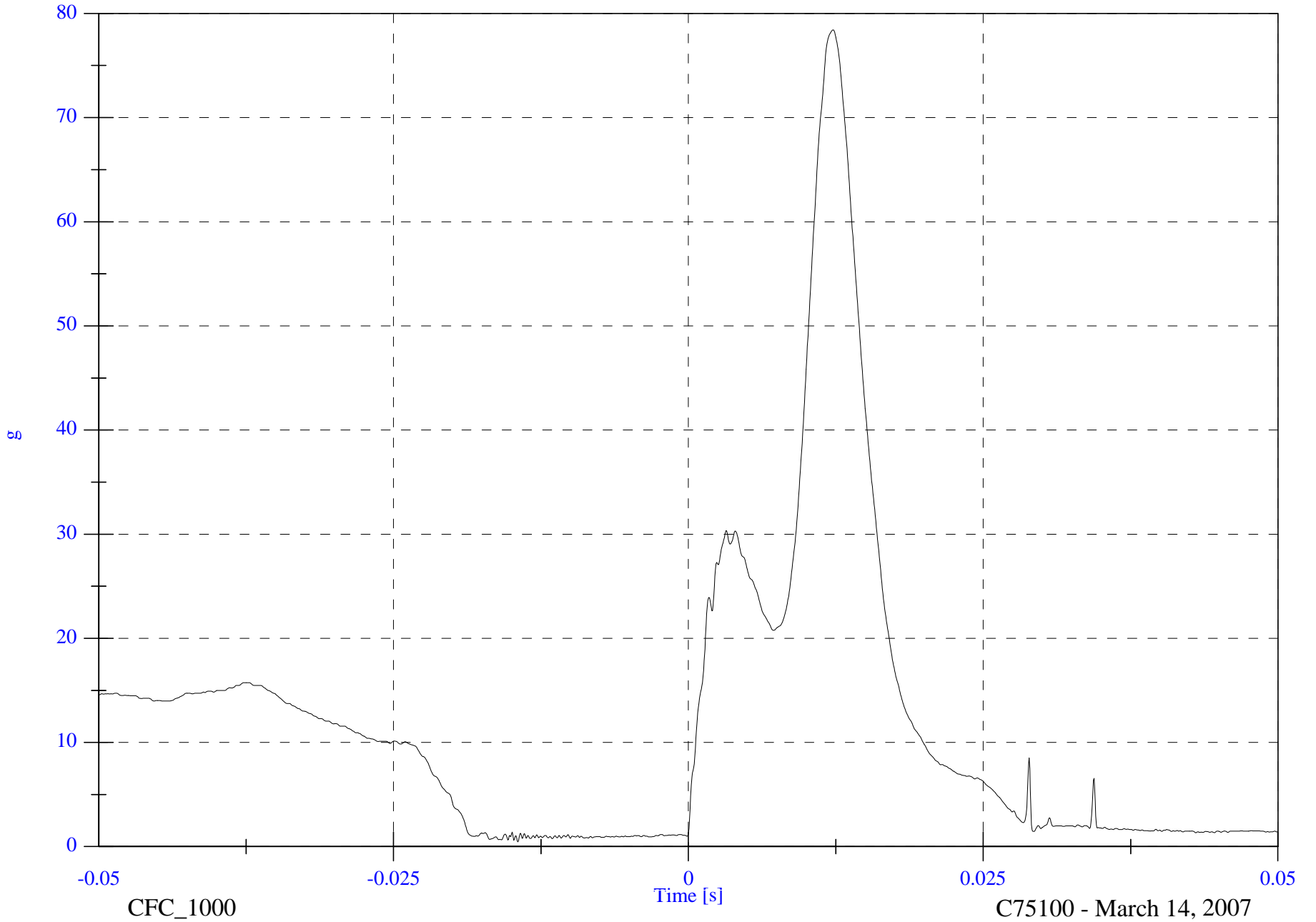
Headform Resultant

Max: 78.4 [g] at 0.012 [s]

Min: 0.4 [g] at -0.014 [s]

C75100 AP3 IMPACT PLOT #4

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

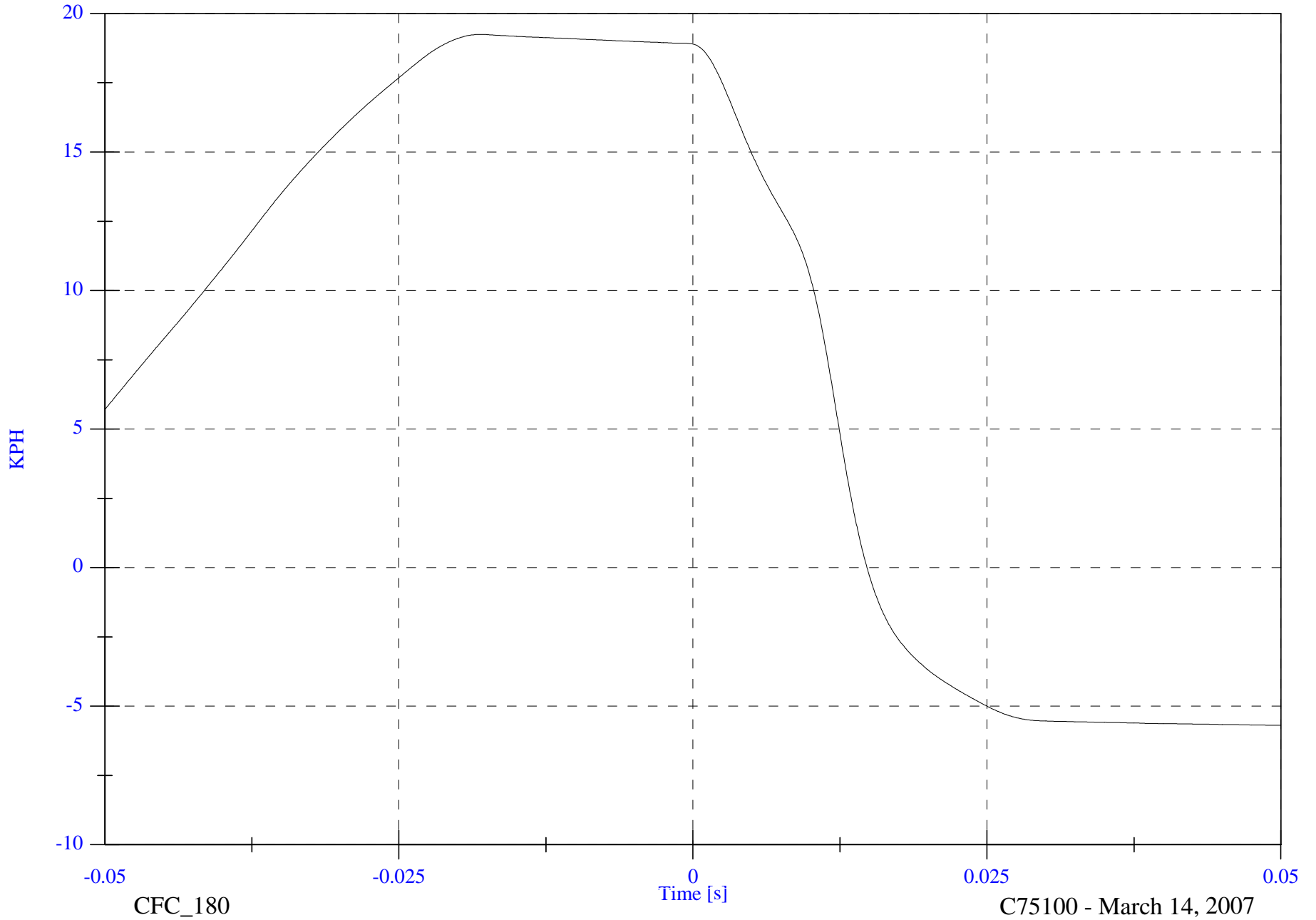
### Headform Velocity

Max: 19.2 [KPH] at -0.018 [s]

Min: -5.7 [KPH] at 0.050 [s]

C75100 AP3 IMPACT PLOT #5

8826-FMH-01



CFC\_180

Time [s]

C75100 - March 14, 2007



PRE-IMPACT AP3



POST-IMPACT AP3



VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	06
Test Date:	03/14/07
Target Location:	A-PILLAR
Target Code:	AP1
Horizontal Impact Angle:	103°
Vertical Impact Angle:	25°
Ambient Temperature:	20.2°C
Relative Humidity:	56.6
Time of Impact:	17:12
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	3	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	21				mm up



POST-IMPACT AP1 HEADFORM

Free Motion HIC	398.1
HIC(d)	466.8
Impact Velocity (kph)	18.36
HIC T1 (msec)	6.5
HIC T2 (msec)	12.1

# FMVSS 201U 2007 Toyota Camry C75100 - AP1

FMH Headform 0355

Location: AP1

Test Date: March 14, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 20.2 C

HICd: 466.8

Lab Humidity: 56.6 %

HIC (36ms): 398.1

Velocity at Impact: 18.36 KPH

t1: 6.5 msec

t2: 12.1 msec

Free Flight Distance: 217.64 mm

Duration: 5.5 msec

Maximum: 113.3 g

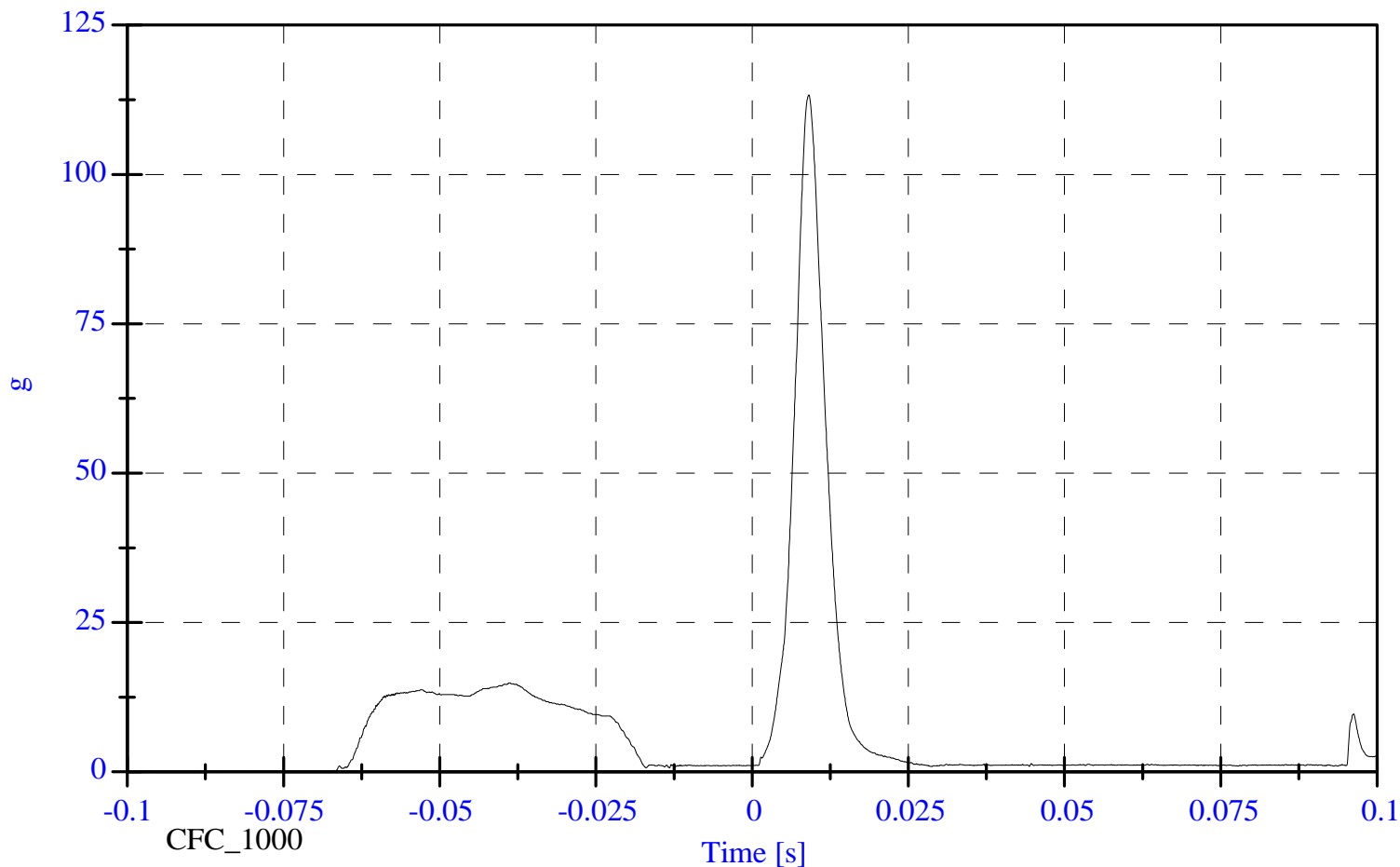
Average Acceleration: 6.7 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 113.3 [g] at 0.009 [s]

Min: 0.0 [g] at -0.094 [s]



FMVSS 201U 2007 Toyota Camry

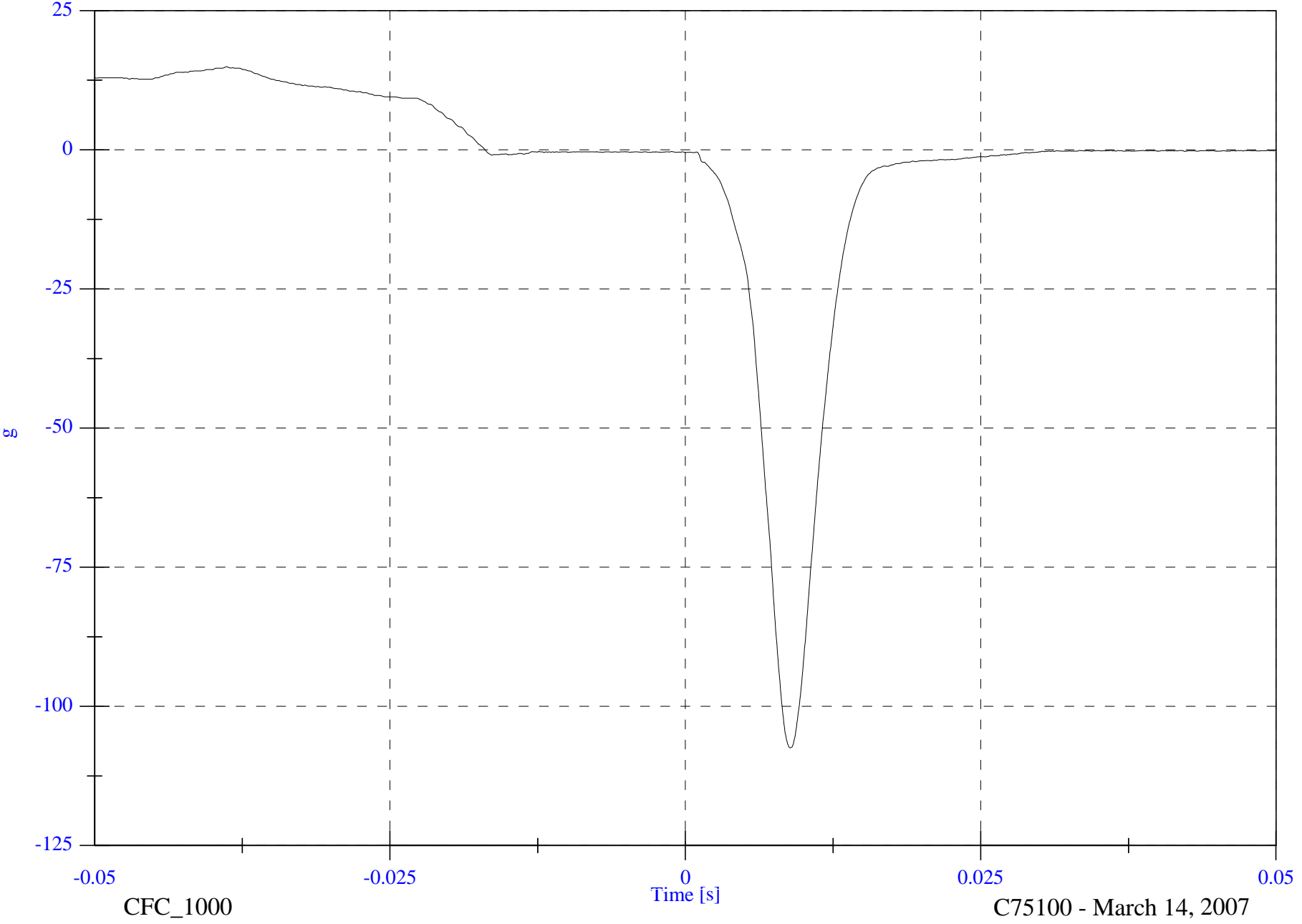
Headform X Acceleration

Max: 14.9 [g] at -0.039 [s]

Min: -107.4 [g] at 0.009 [s]

C75100 AP1 IMPACT PLOT #1

8826-FMH-01



CFC\_1000

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

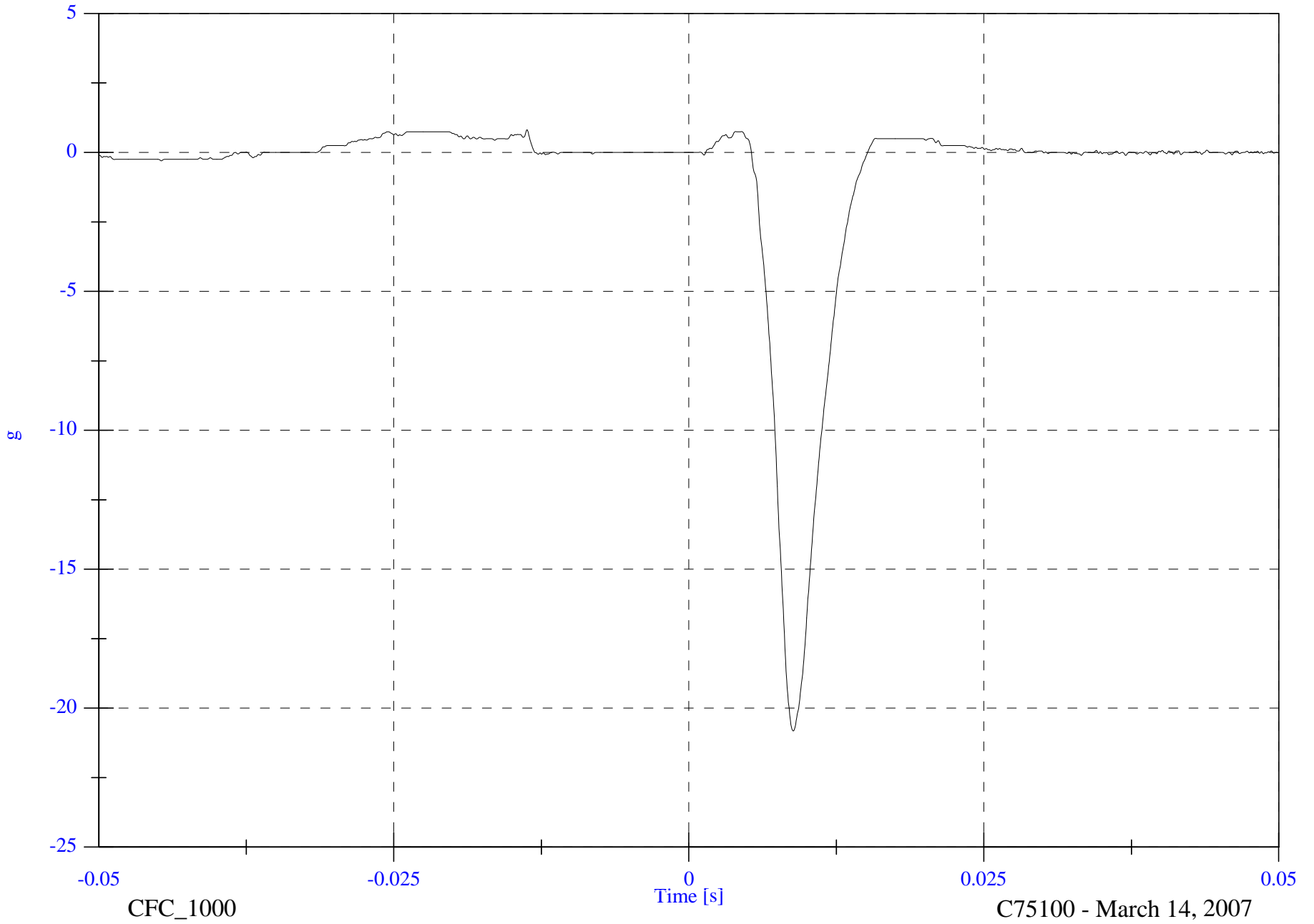
Headform Y Acceleration

Max: 0.8 [g] at -0.014 [s]

Min: -20.8 [g] at 0.009 [s]

C75100 AP1 IMPACT PLOT #2

8826-FMH-01



CFC\_1000

Time [s]

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

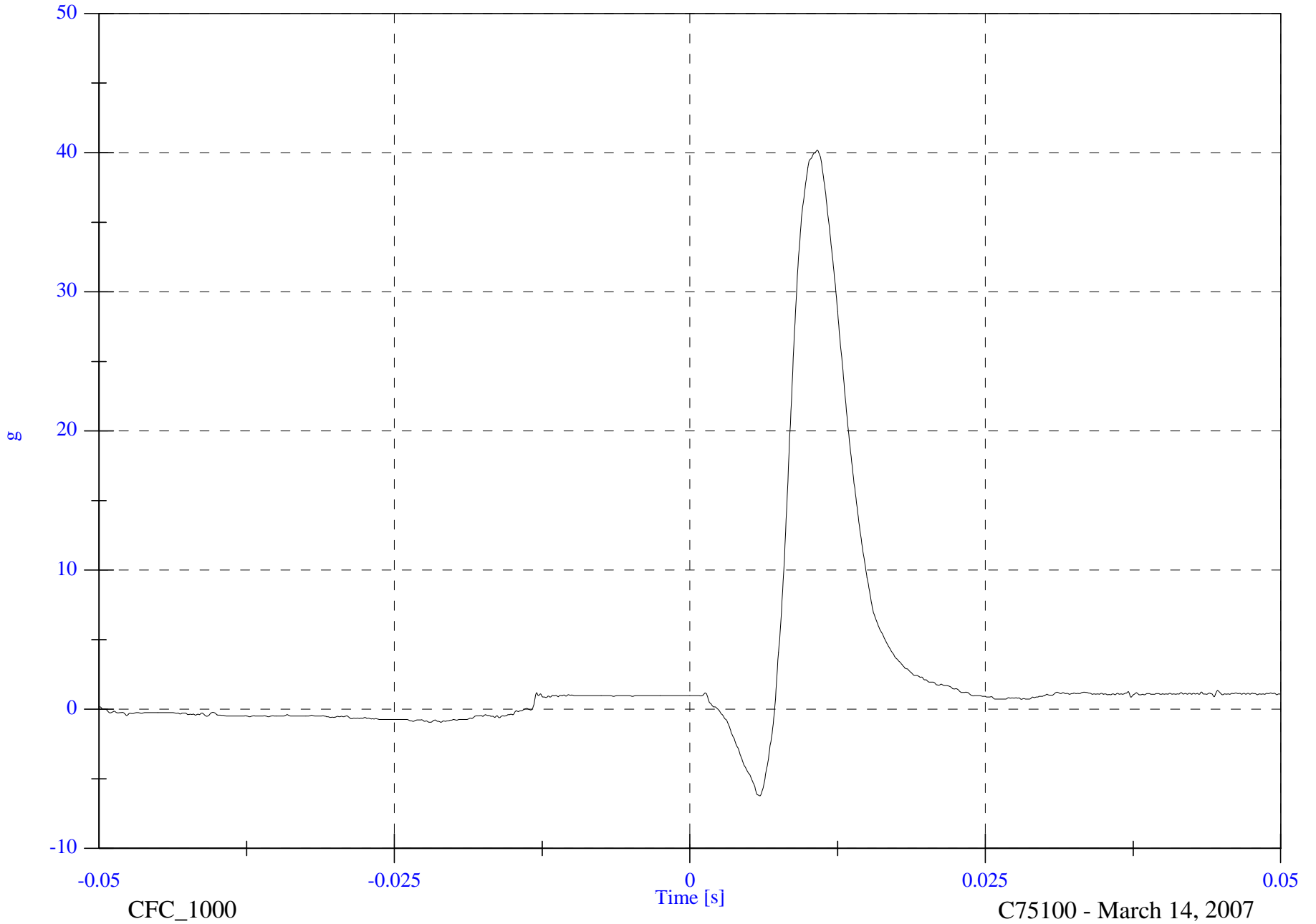
Headform Z Acceleration

Max: 40.2 [g] at 0.011 [s]

Min: -6.2 [g] at 0.006 [s]

C75100 AP1 IMPACT PLOT #3

8826-FMH-01



CFC\_1000

Time [s]

C75100 - March 14, 2007

FMVSS 201U 2007 Toyota Camry

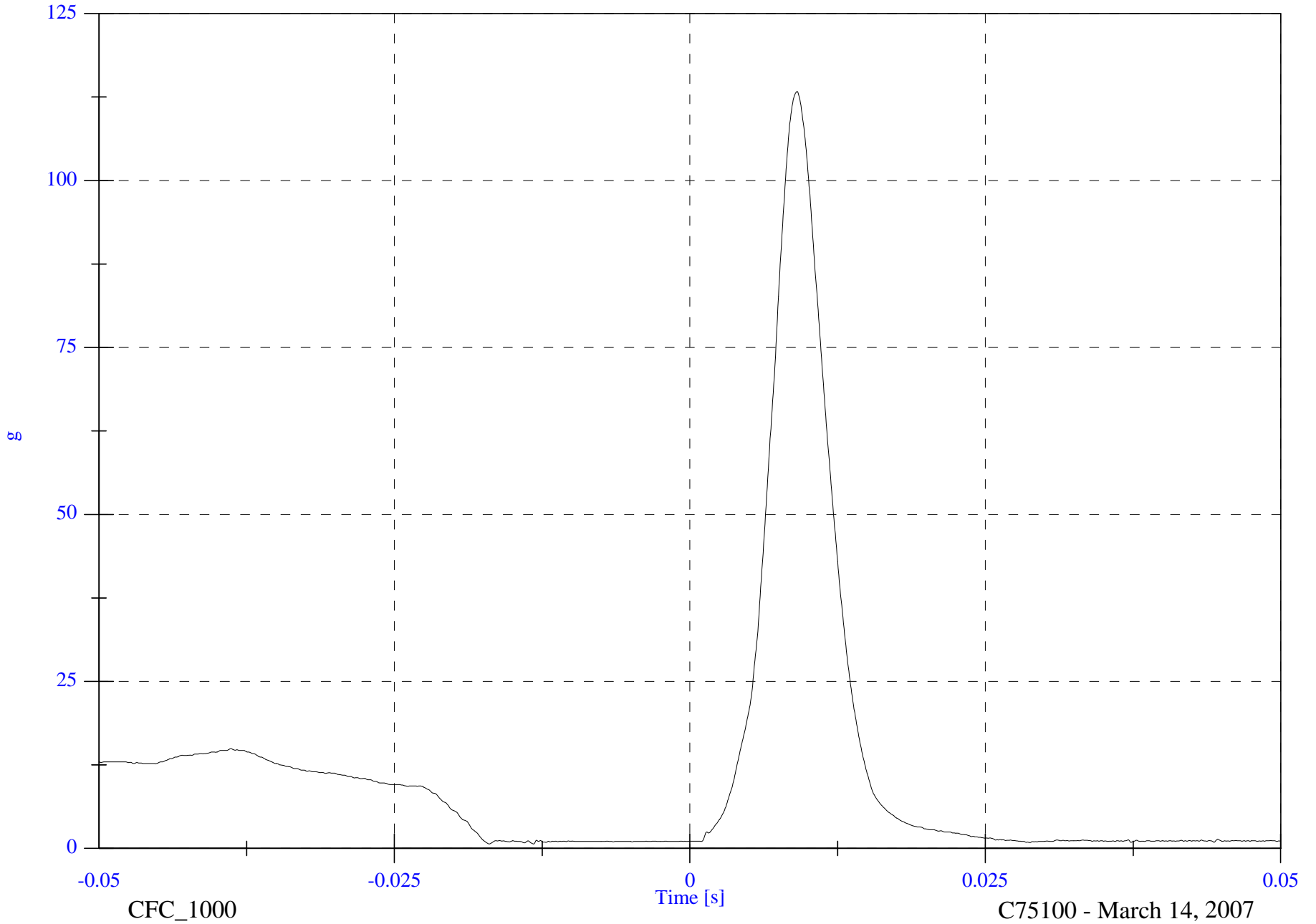
Headform Resultant

Max: 113.3 [g] at 0.009 [s]

Min: 0.7 [g] at -0.013 [s]

C75100 AP1 IMPACT PLOT #4

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

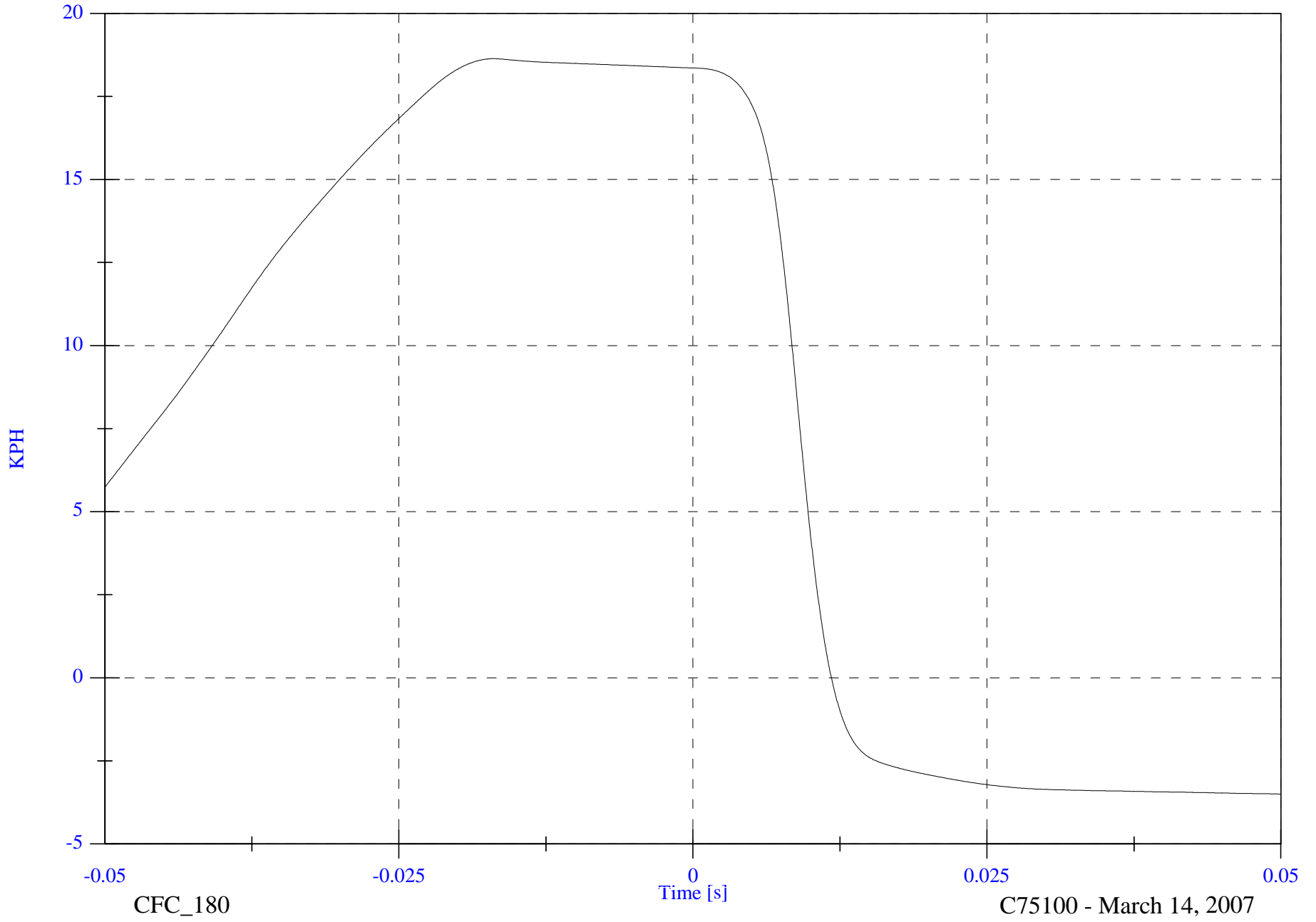
### Headform Velocity

Max: 18.6 [KPH] at -0.017 [s]

Min: -3.5 [KPH] at 0.050 [s]

C75100 AP1 IMPACT PLOT #5

8826-FMH-01



CFC\_180

C75100 - March 14, 2007



PRE-IMPACT AP1





POST-IMPACT API

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	07
Test Date:	03/15/07
Target Location:	A-PILLAR
Target Code:	AP2
Horizontal Impact Angle:	208°
Vertical Impact Angle:	44°
Ambient Temperature:	21.7°C
Relative Humidity:	28
Time of Impact:	10:18
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	5	<input checked="" type="checkbox"/>	mm right <input type="checkbox"/> mm left
On Centerline	15		mm up



POST-IMPACT AP2 HEADFORM

Free Motion HIC	189
HIC(d)	309
Impact Velocity (kph)	18.58
HIC T1 (msec)	7.2
HIC T2 (msec)	13.3

# FMVSS 201U 2007 Toyota Camry C75100 - AP2

FMH Headform 0355

Location: AP2

Test Date: March 15, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.7 C

HICd: 309.0

Lab Humidity: 28.0 %

HIC (36ms): 189.0

Velocity at Impact: 18.58 KPH

t1: 7.2 msec

t2: 13.3 msec

Free Flight Distance: 222.79 mm

Duration: 6.1 msec

Maximum: 89.8 g

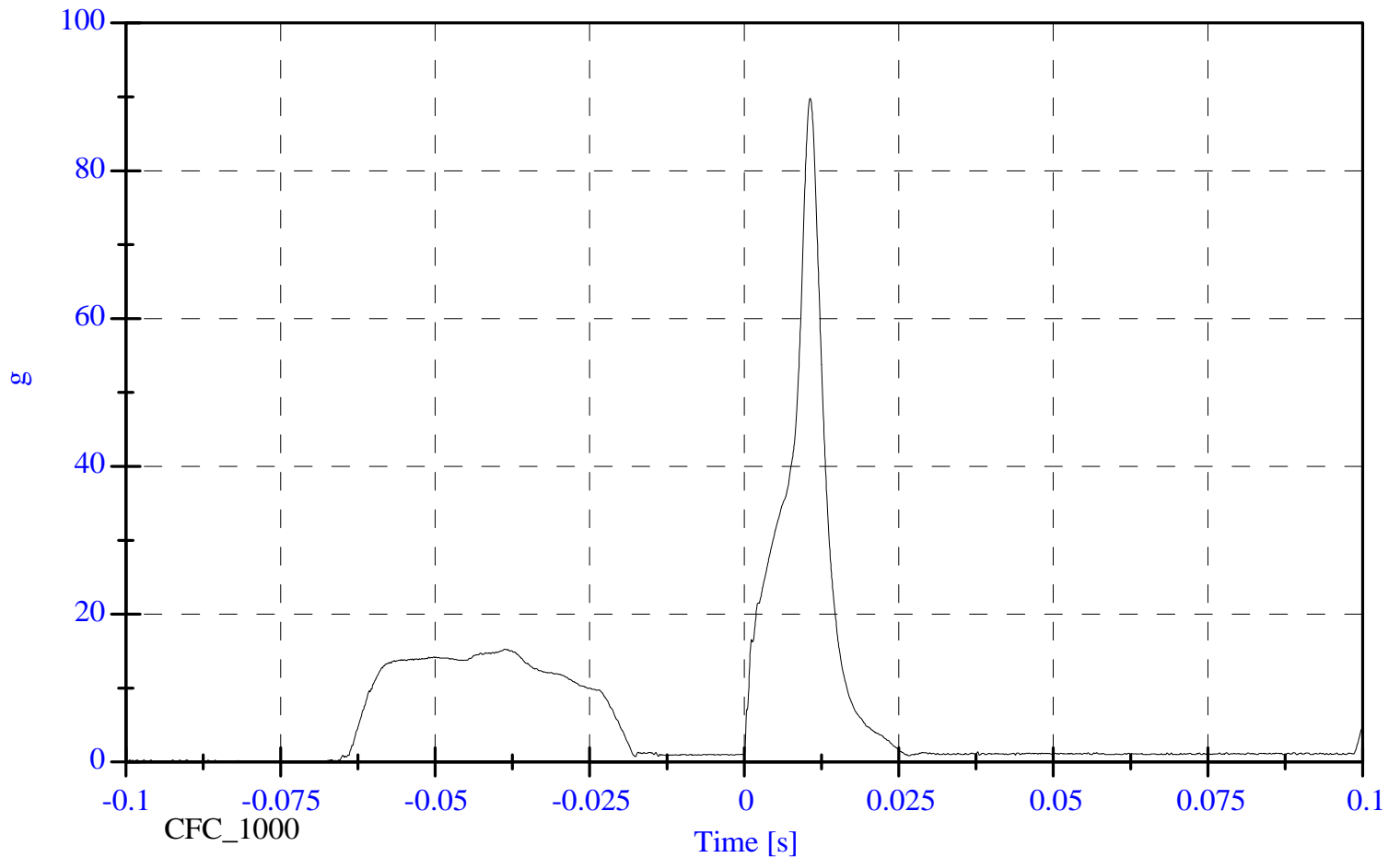
Average Acceleration: 6.5 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 89.8 [g] at 0.011 [s]

Min: 0.0 [g] at -0.082 [s]



FMVSS 201U 2007 Toyota Camry

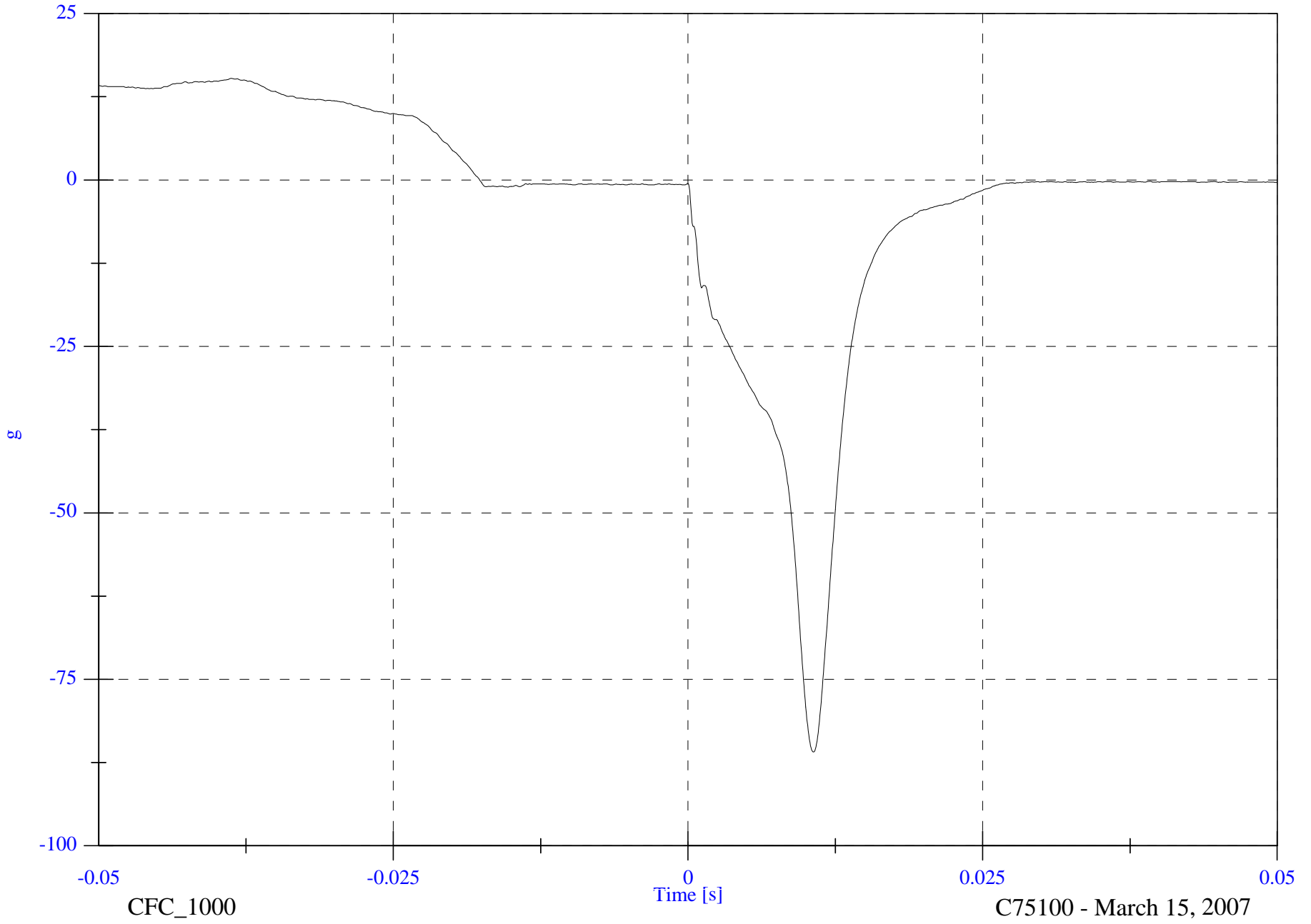
Headform X Acceleration

Max: 15.2 [g] at -0.039 [s]

Min: -85.9 [g] at 0.011 [s]

C75100 AP2 IMPACT PLOT #1

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

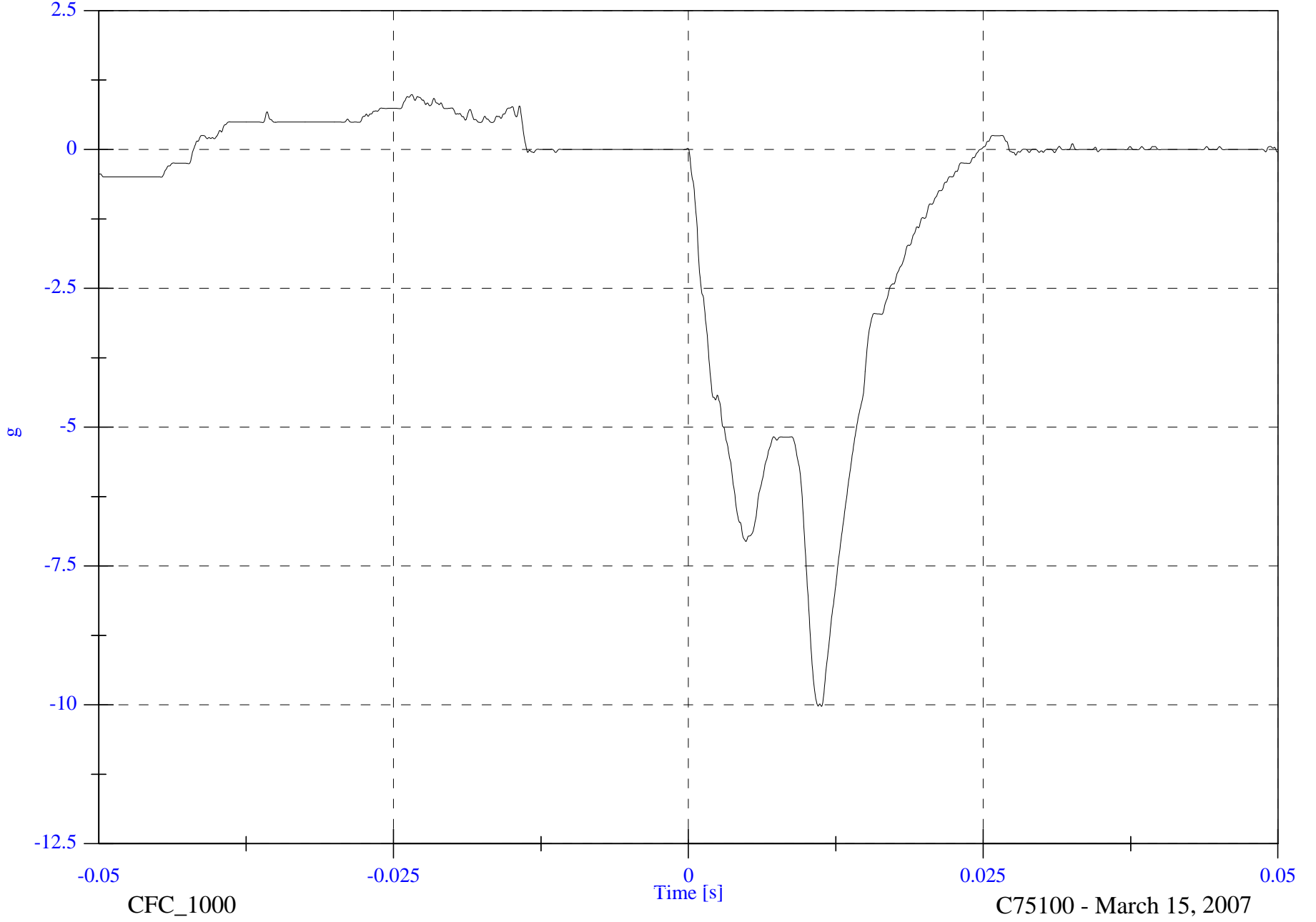
Headform Y Acceleration

Max: 1.0 [g] at -0.023 [s]

Min: -10.0 [g] at 0.011 [s]

C75100 AP2 IMPACT PLOT #2

8826-FMH-01



CFC\_1000

Time [s]

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

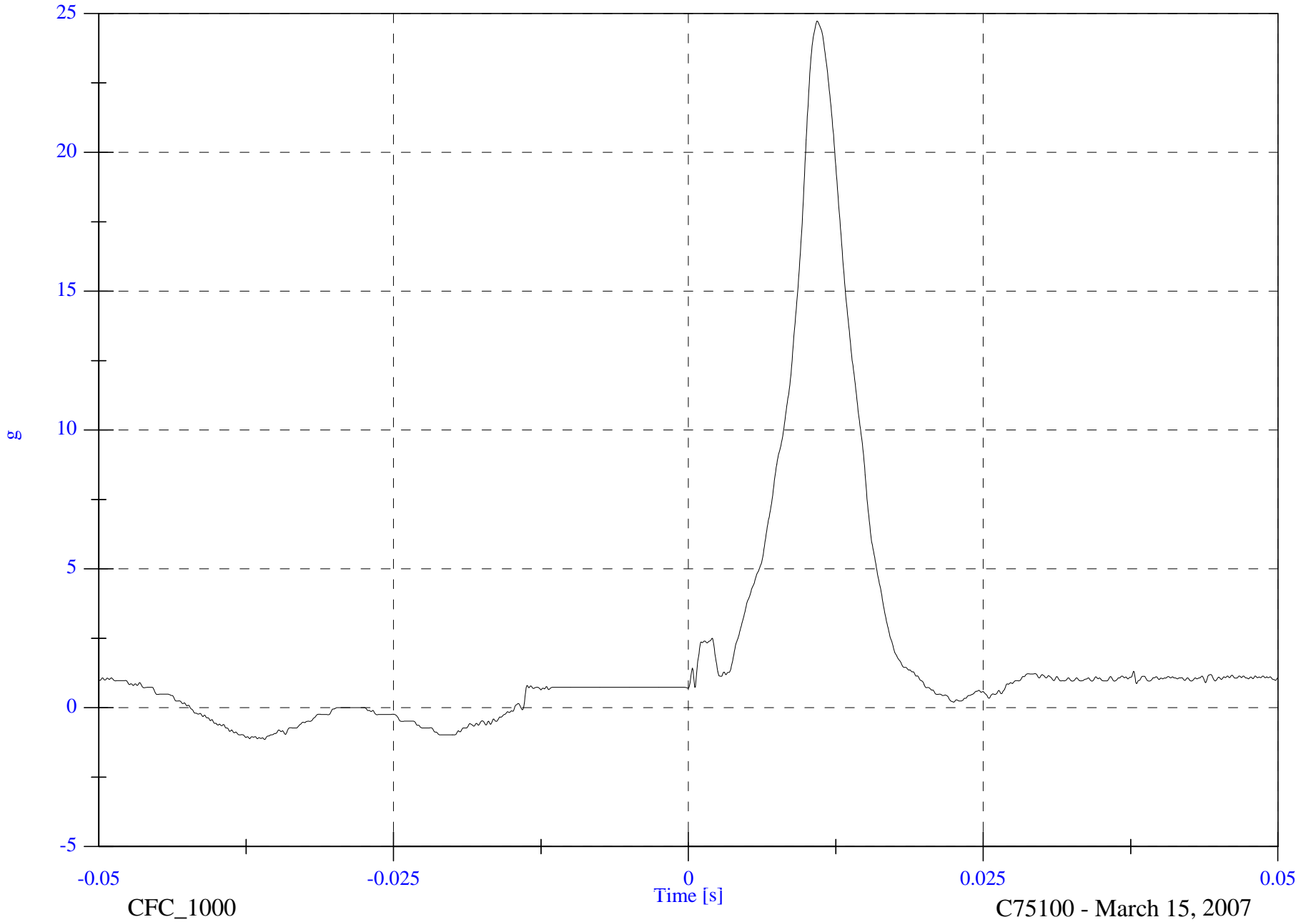
Headform Z Acceleration

Max: 24.7 [g] at 0.011 [s]

Min: -1.1 [g] at -0.036 [s]

C75100 AP2 IMPACT PLOT #3

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

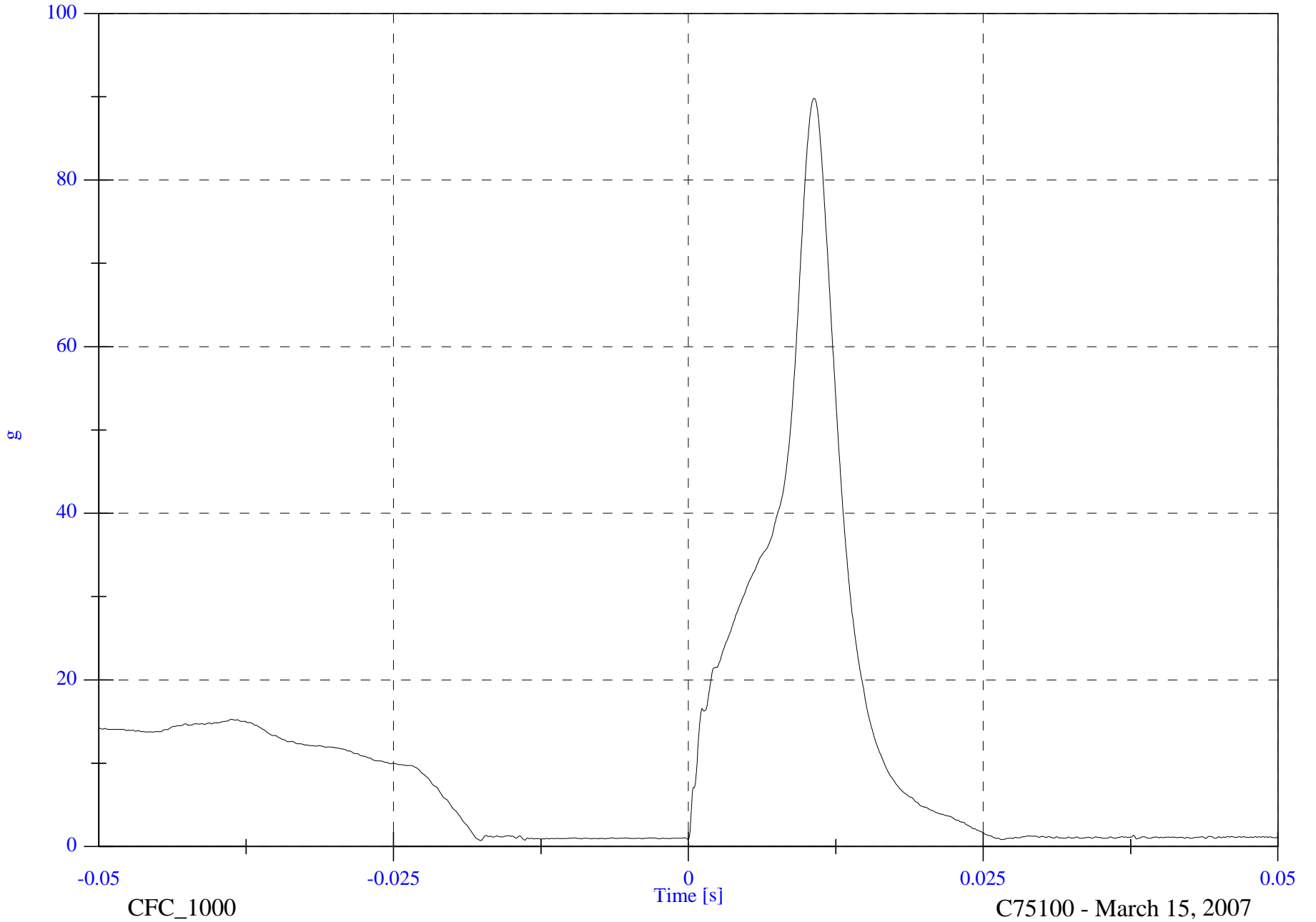
Headform Resultant

Max: 89.8 [g] at 0.011 [s]

Min: 0.7 [g] at -0.018 [s]

C75100 AP2 IMPACT PLOT #4

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

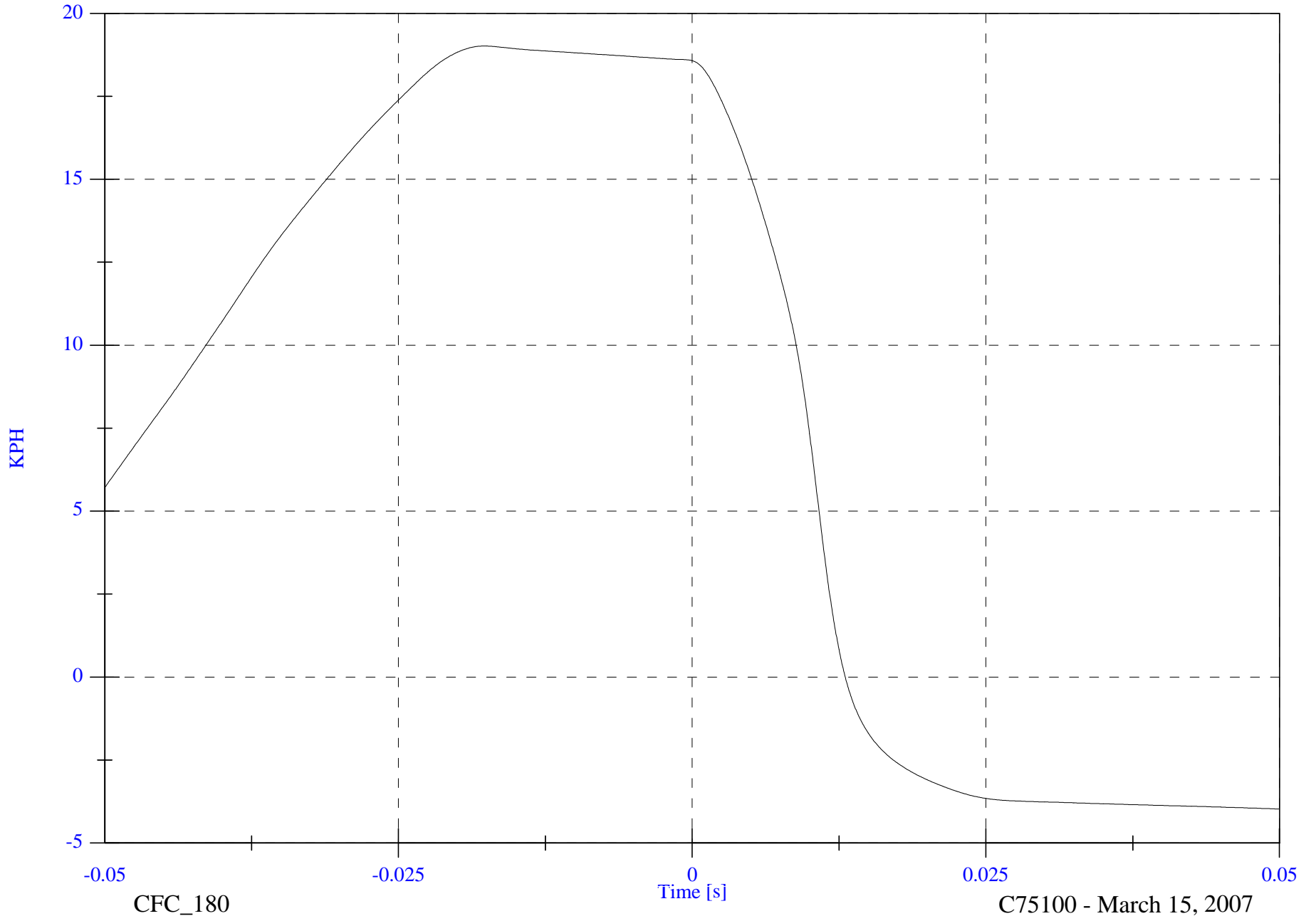
### Headform Velocity

Max: 19.0 [KPH] at -0.018 [s]

Min: -4.0 [KPH] at 0.050 [s]

C75100 AP2 IMPACT PLOT #5

8826-FMH-01



CFC\_180

Time [s]

C75100 - March 15, 2007





PRE-IMPACT AP2



POST-IMPACT AP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	08
Test Date:	03/15/07
Target Location:	SIDE RAIL
Target Code:	SR1
Horizontal Impact Angle:	270°
Vertical Impact Angle:	37°
Ambient Temperature:	21.8°C
Relative Humidity:	26.8
Time of Impact:	10:54
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	3	mm right	x mm left
On Centerline	39	mm up	



POST-IMPACT SR1 HEADFORM

Free Motion HIC	317.4
HIC(d)	405.8
Impact Velocity (kph)	18.37
HIC T1 (msec)	3.7
HIC T2 (msec)	11.3

# FMVSS 201U 2007 Toyota Camry C75100 - SR1

FMH Headform 0642

Location: SR1

Test Date: March 15, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.8 C

HICd: 405.8

Lab Humidity: 26.8 %

HIC (36ms): 317.4

Velocity at Impact: 18.37 KPH

t1: 3.7 msec

t2: 11.3 msec

Free Flight Distance: 217.11 mm

Duration: 7.6 msec

Maximum: 85.3 g

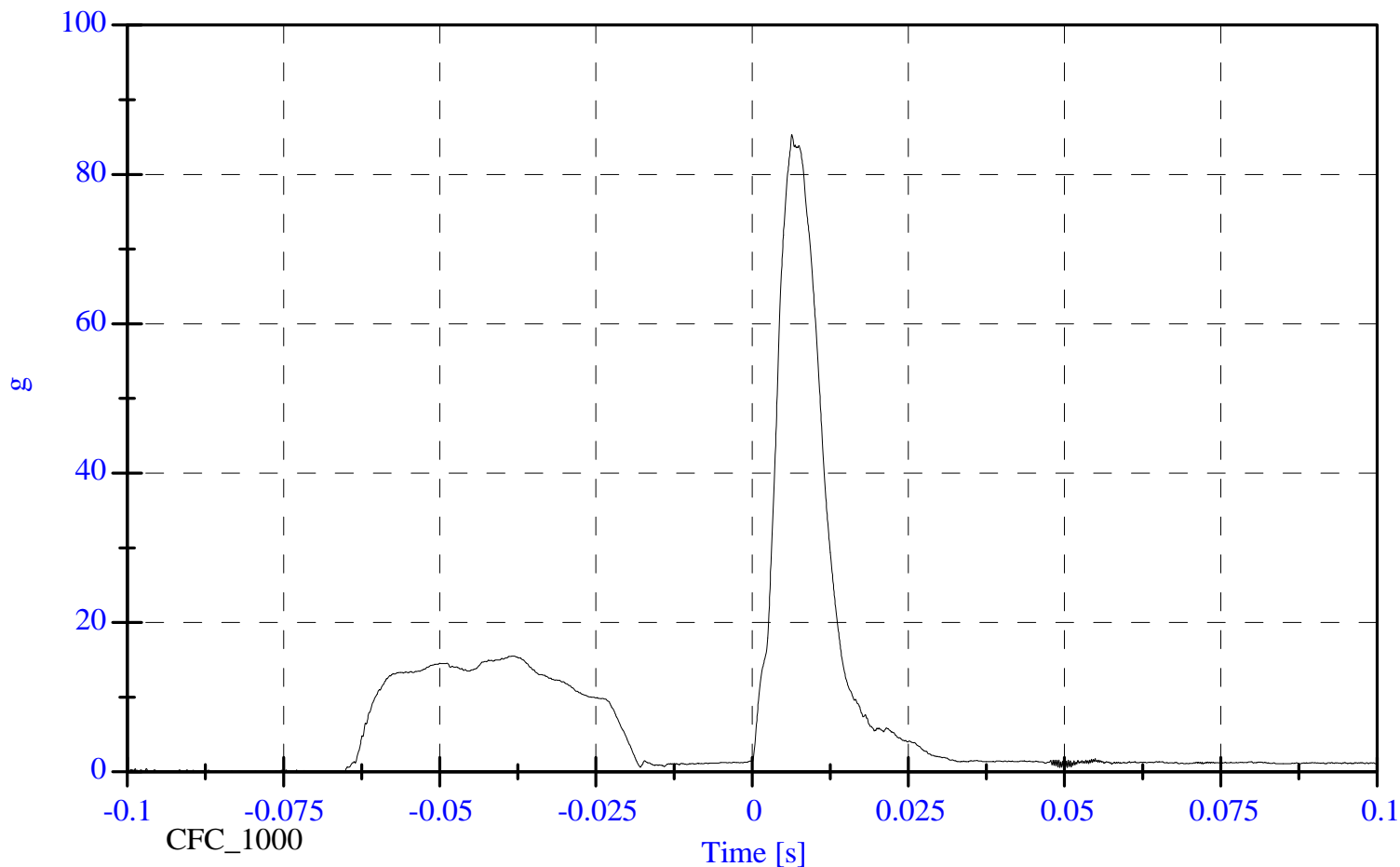
Average Acceleration: 7.1 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 85.3 [g] at 0.006 [s]

Min: 0.0 [g] at -0.076 [s]



FMVSS 201U 2007 Toyota Camry

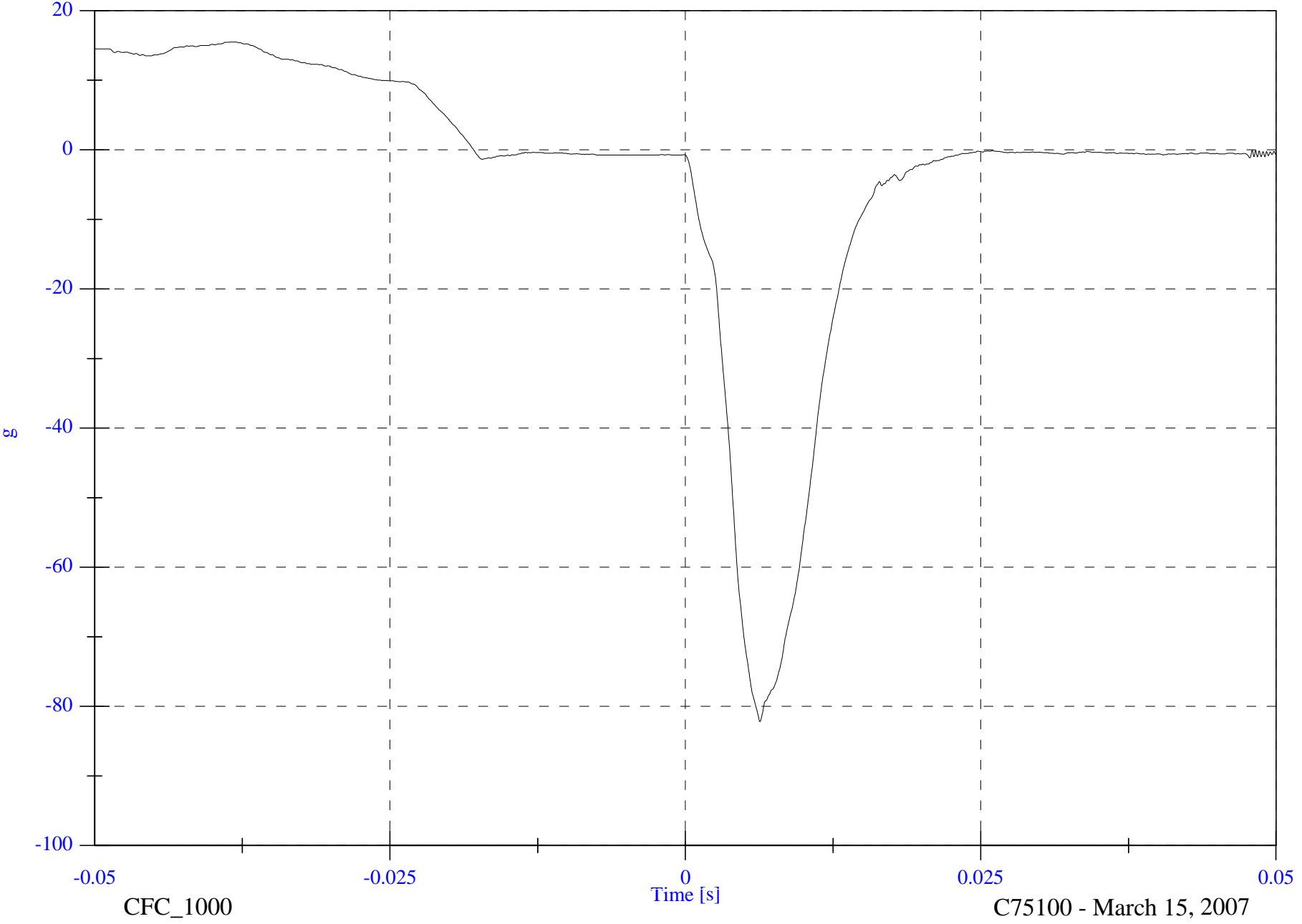
Headform X Acceleration

Max: 15.5 [g] at -0.038 [s]

Min: -82.2 [g] at 0.006 [s]

C75100 SR1 IMPACT PLOT #1

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

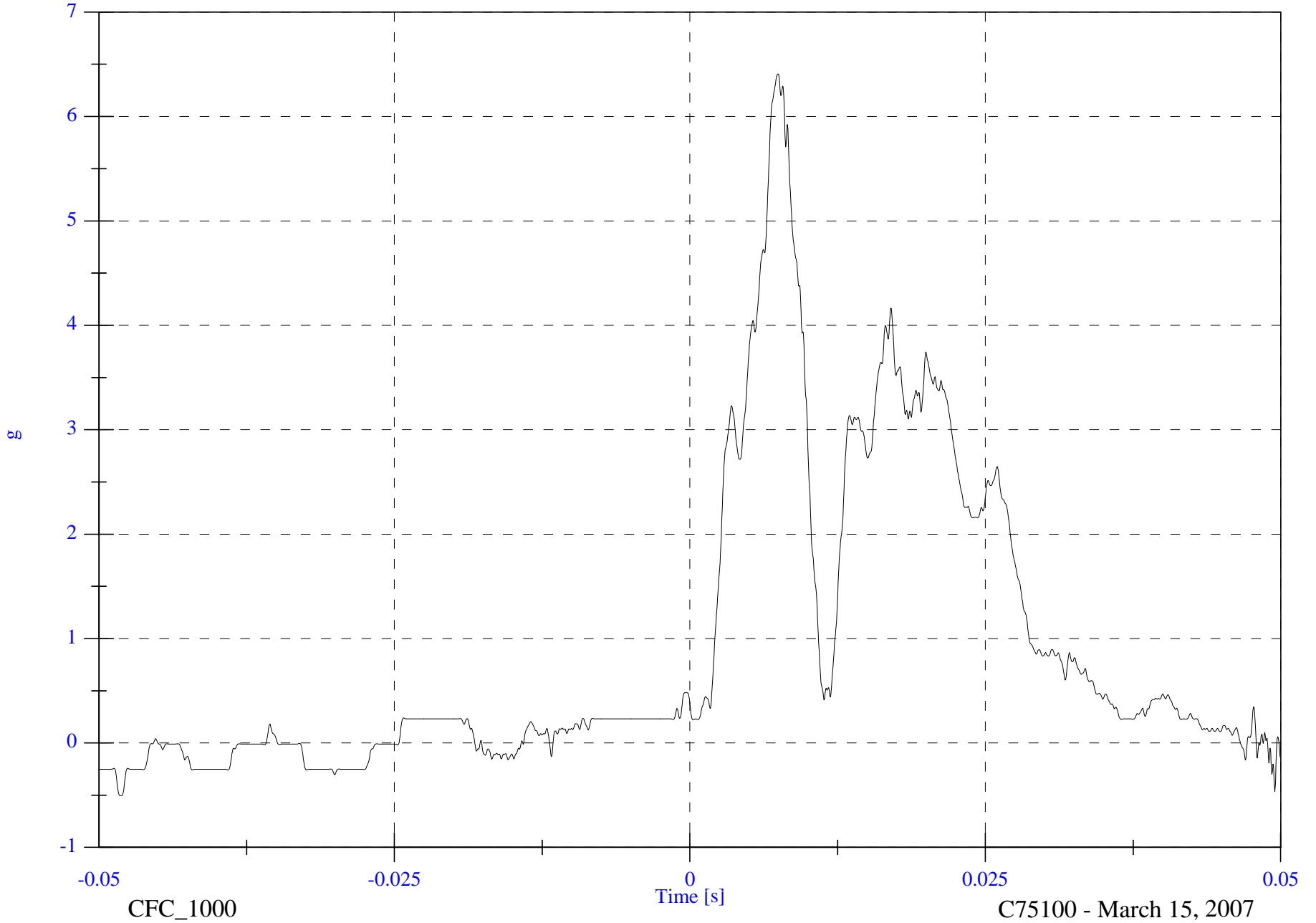
Headform Y Acceleration

Max: 6.4 [g] at 0.007 [s]

Min: -0.5 [g] at -0.048 [s]

C75100 SR1 IMPACT PLOT #2

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

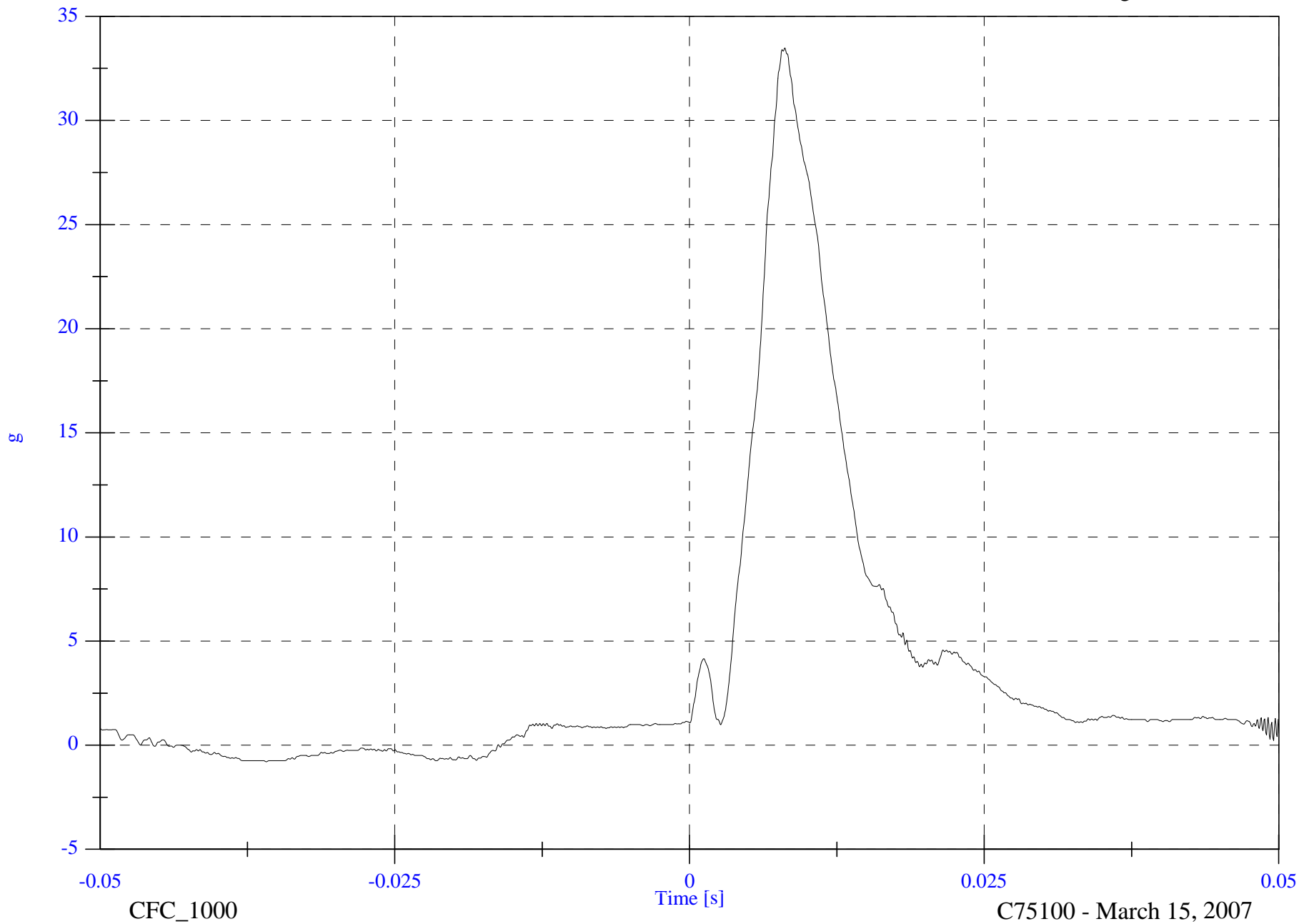
Headform Z Acceleration

Max: 33.5 [g] at 0.008 [s]

Min: -0.8 [g] at -0.036 [s]

C75100 SR1 IMPACT PLOT #3

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

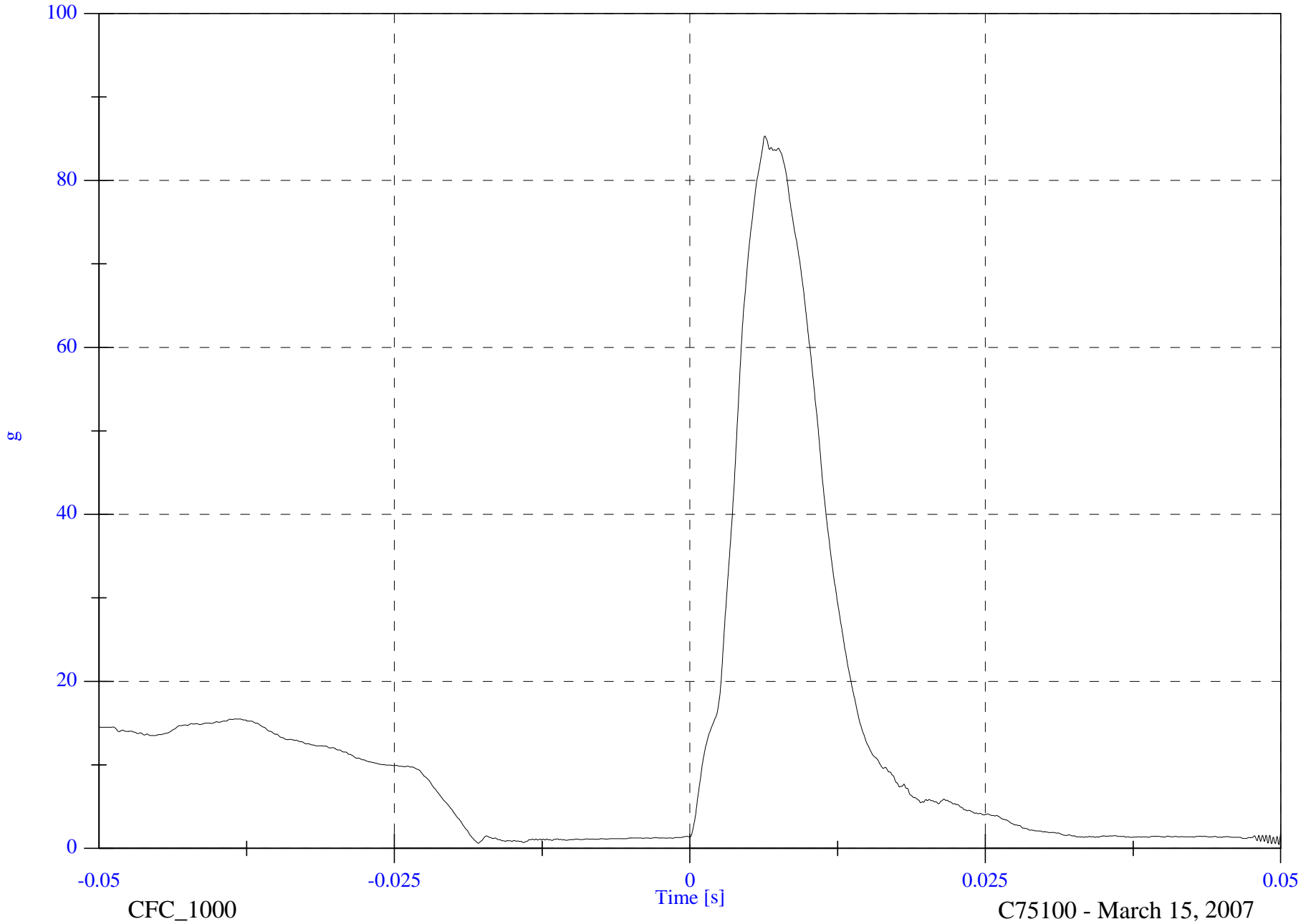
Headform Resultant

Max: 85.3 [g] at 0.006 [s]

Min: 0.5 [g] at 0.050 [s]

C75100 SR1 IMPACT PLOT #4

8826-FMH-01





FMVSS 201U 2007 Toyota Camry

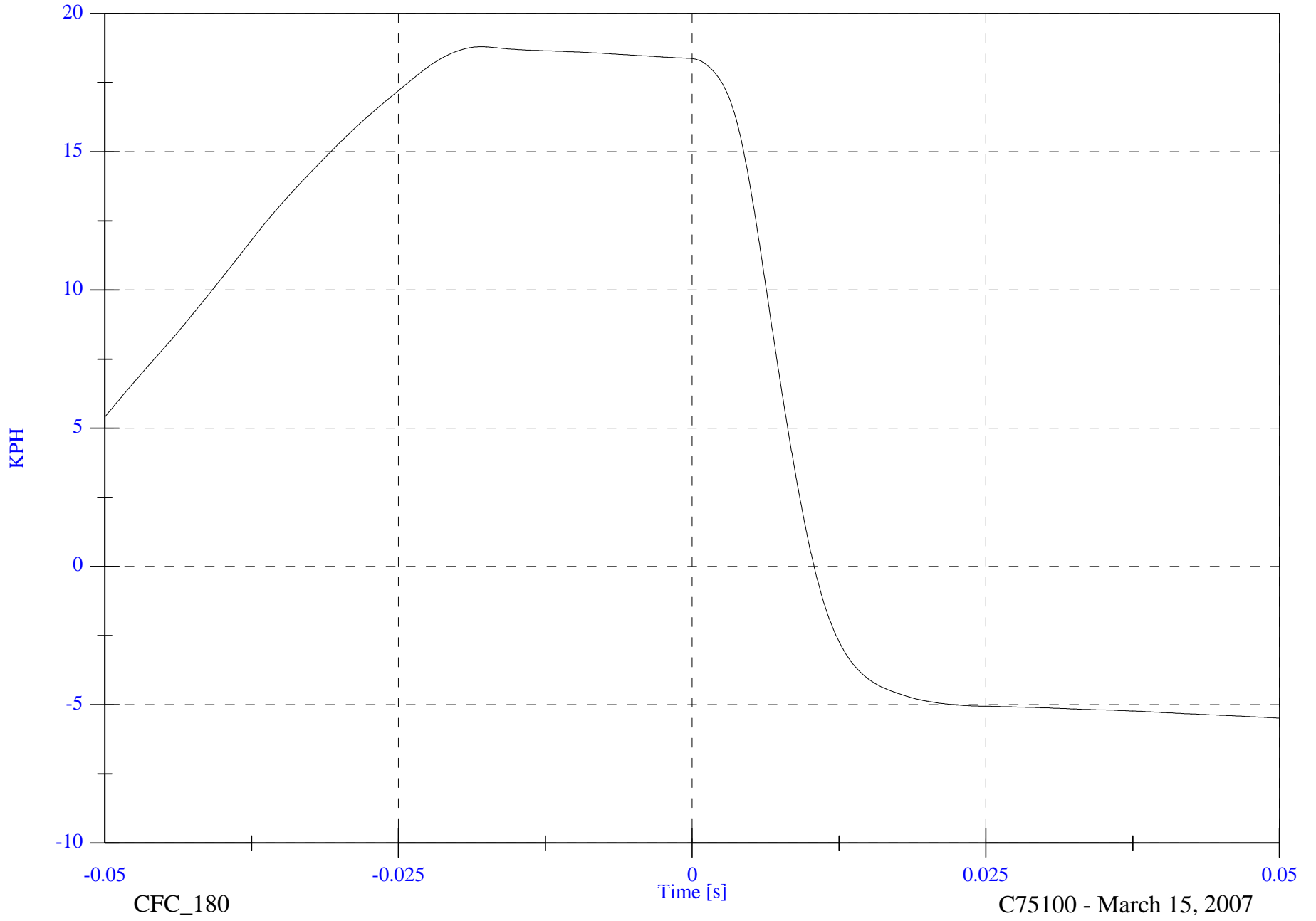
### Headform Velocity

Max: 18.8 [KPH] at -0.018 [s]

Min: -5.5 [KPH] at 0.050 [s]

C75100 SR1 IMPACT PLOT #5

8826-FMH-01



CFC\_180

Time [s]

C75100 - March 15, 2007



PRE-IMPACT SR1



POST-IMPACT SR1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	09
Test Date:	03/15/07
Target Location:	B-PILLAR
Target Code:	BP2
Horizontal Impact Angle:	270°
Vertical Impact Angle:	1°
Ambient Temperature:	21.8°C
Relative Humidity:	24.7
Time of Impact:	12:02
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	3	mm right	x mm left
On Centerline	24	mm up	



POST-IMPACT BP2 HEADFORM

Free Motion HIC	495.1
HIC(d)	539.9
Impact Velocity (kph)	23.32
HIC T1 (msec)	2.9
HIC T2 (msec)	10.8

# FMVSS 201U 2007 Toyota Camry C75100 - BP2

FMH Headform 1255

Location: BP2

Test Date: March 15, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.8 C

HICd: 539.9

Lab Humidity: 24.7 %

HIC (36ms): 495.1

Velocity at Impact: 23.32 KPH

t1: 2.9 msec

t2: 10.8 msec

Free Flight Distance: 217.19 mm

Duration: 7.9 msec

Maximum: 102.7 g

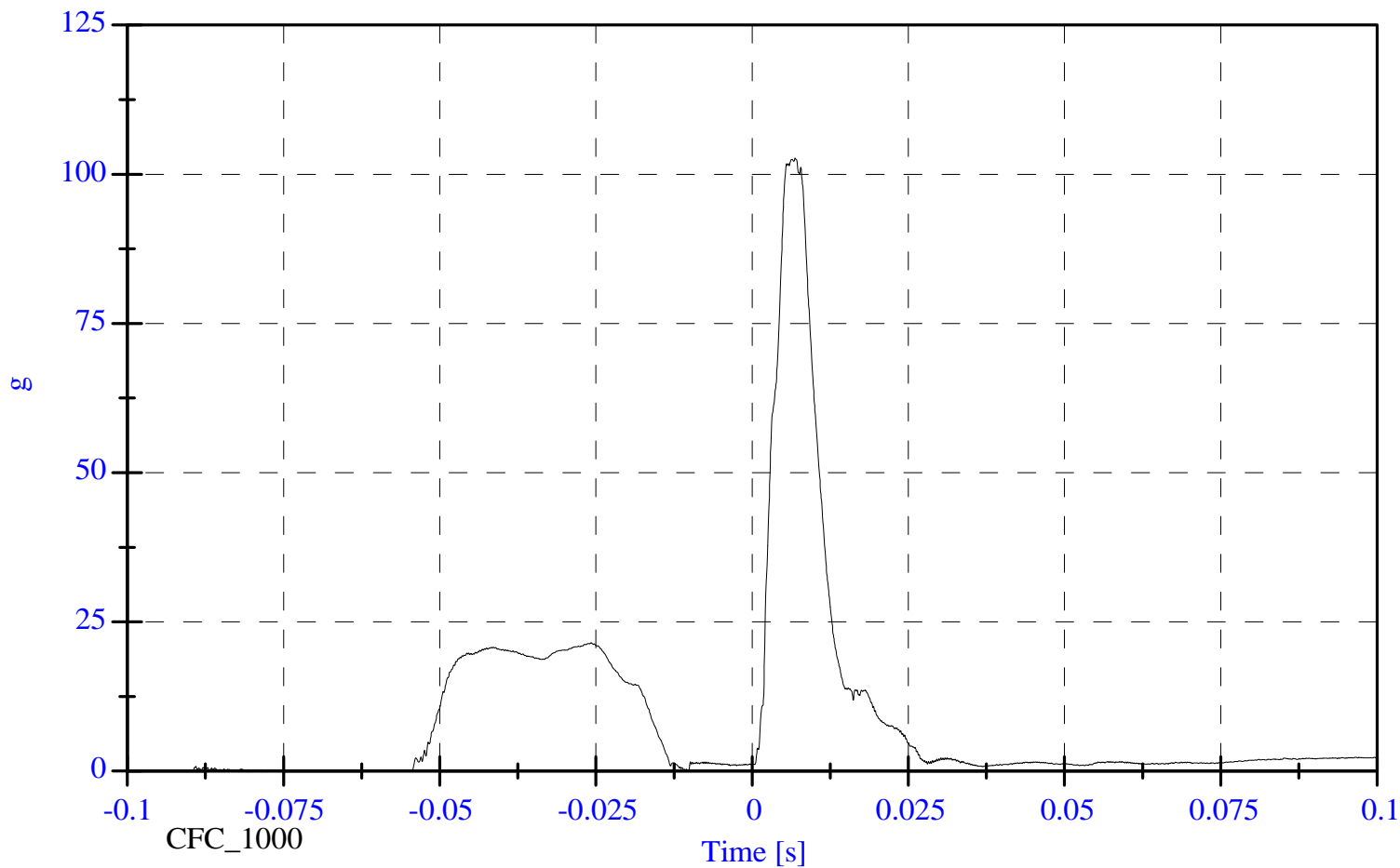
Average Acceleration: 8.6 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 102.7 [g] at 0.007 [s]

Min: 0.0 [g] at -0.070 [s]



FMVSS 201U 2007 Toyota Camry

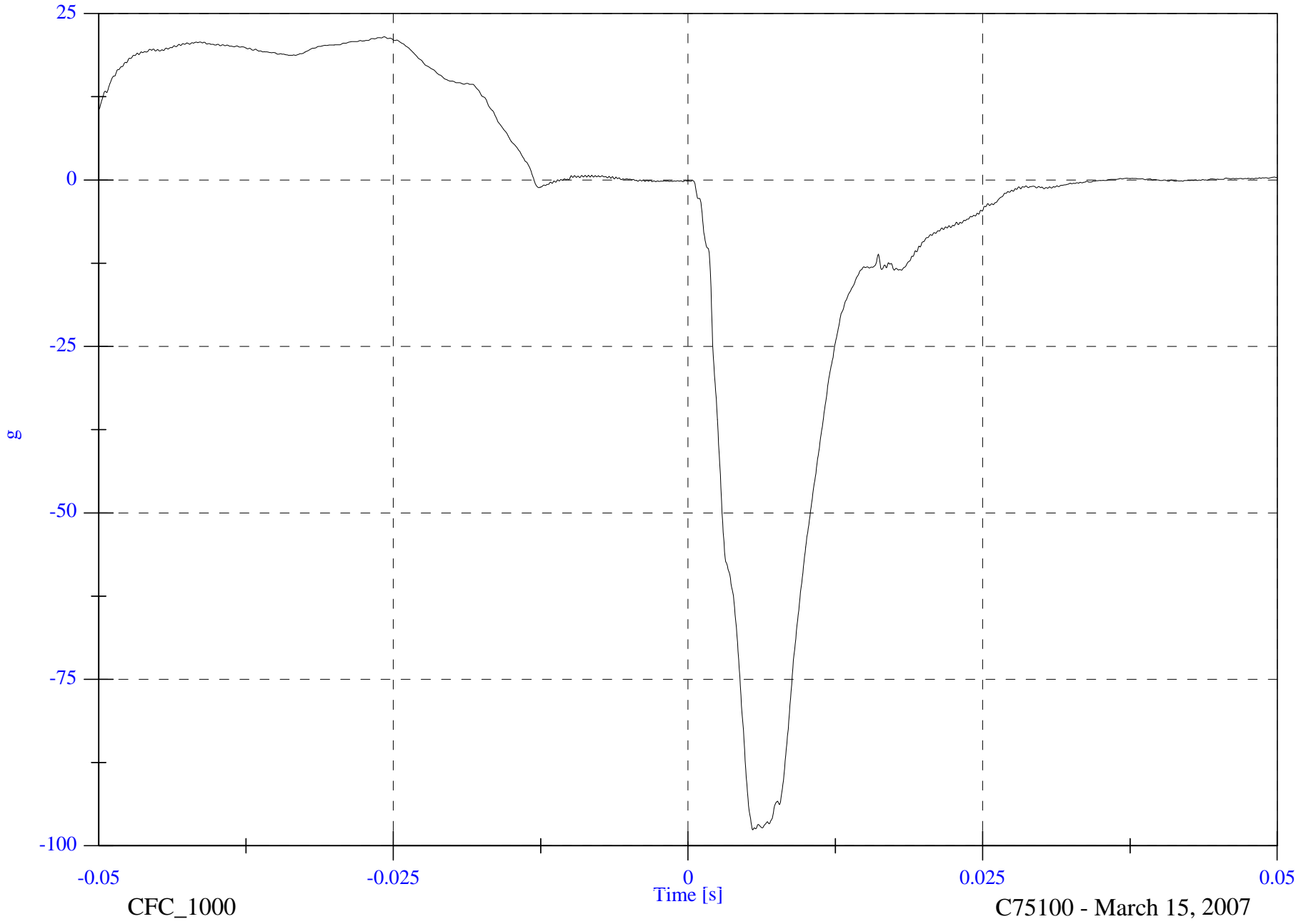
Headform X Acceleration

Max: 21.5 [g] at -0.026 [s]

Min: -97.6 [g] at 0.005 [s]

C75100 BP2 IMPACT PLOT #1

8826-FMH-01



CFC\_1000

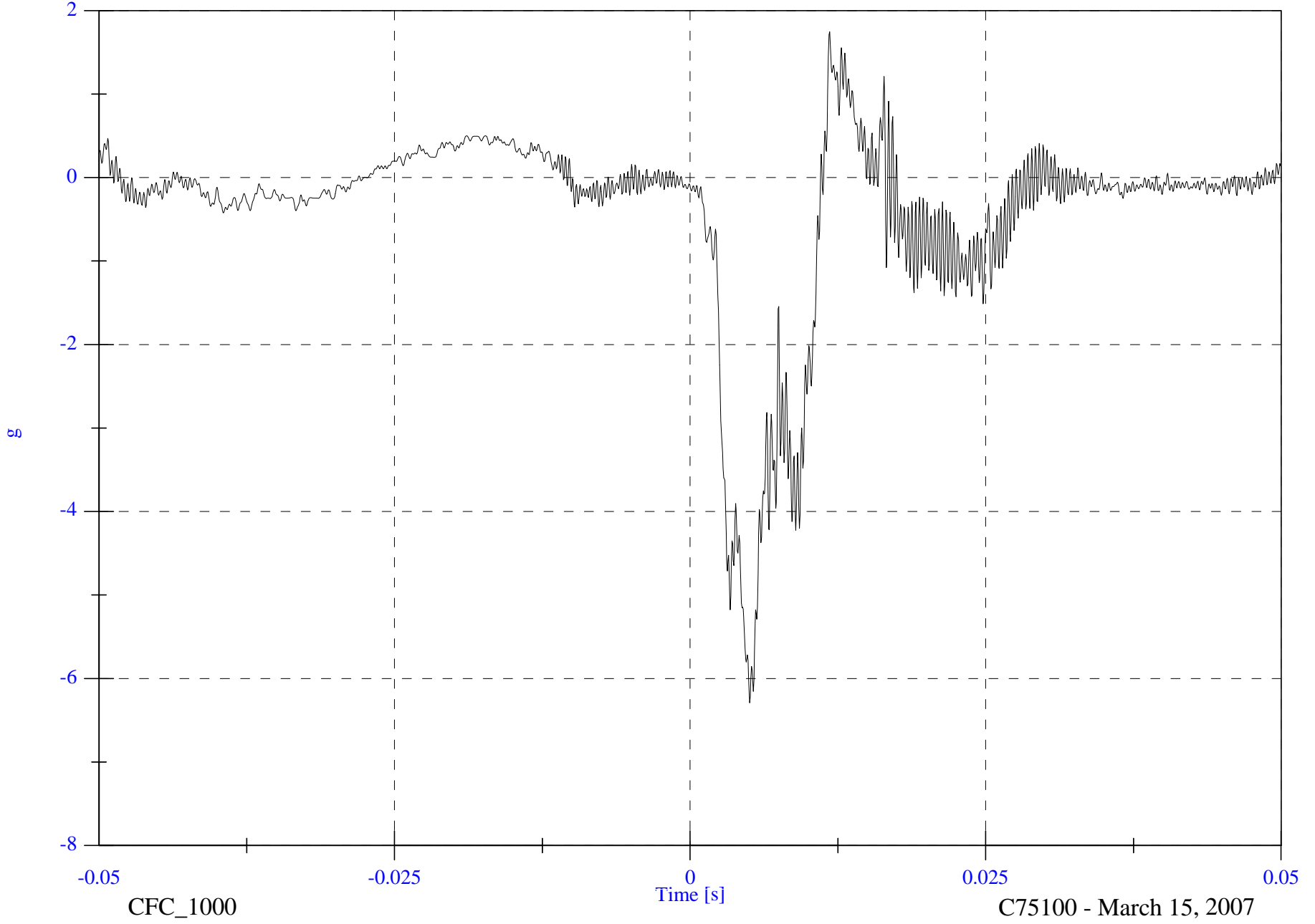
C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

Headform Y Acceleration

Max: 1.7 [g] at 0.012 [s]

Min: -6.3 [g] at 0.005 [s]



C75100 BP2 IMPACT PLOT #2

8826-FMH-01

CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

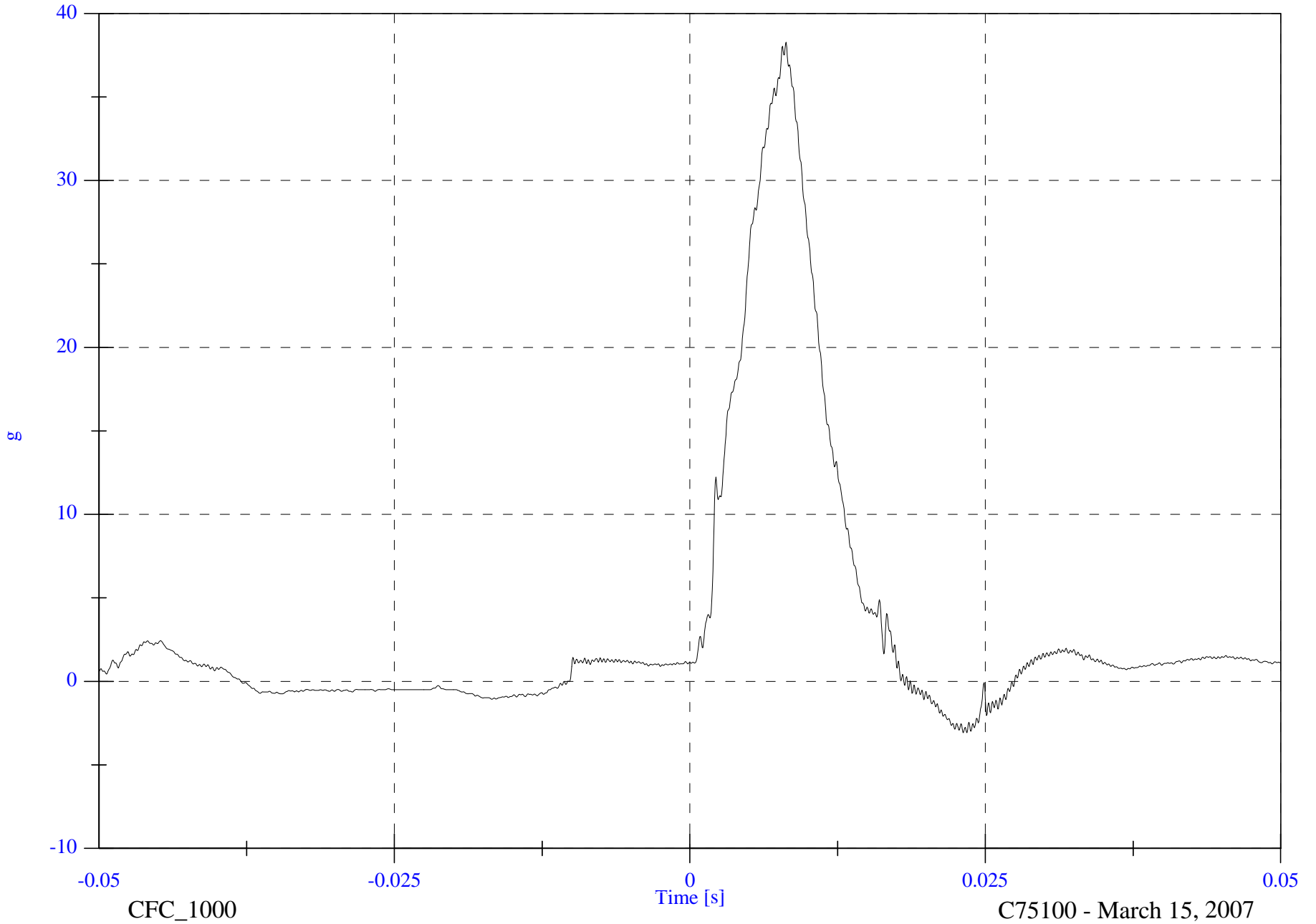
Headform Z Acceleration

Max: 38.3 [g] at 0.008 [s]

Min: -3.1 [g] at 0.023 [s]

C75100 BP2 IMPACT PLOT #3

8826-FMH-01



CFC\_1000

Time [s]

C75100 - March 15, 2007



FMVSS 201U 2007 Toyota Camry

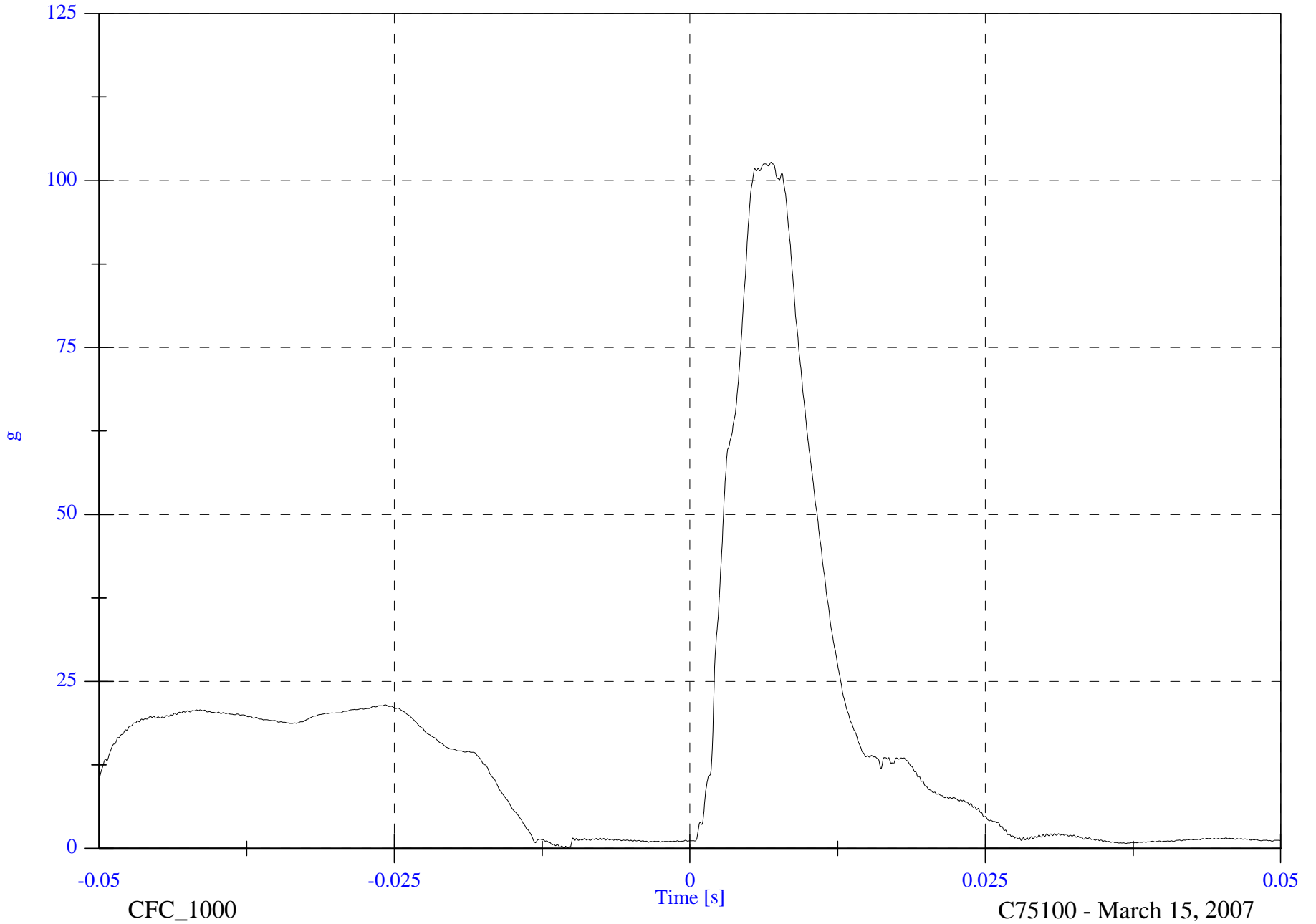
Headform Resultant

Max: 102.7 [g] at 0.007 [s]

Min: 0.1 [g] at -0.011 [s]

C75100 BP2 IMPACT PLOT #4

8826-FMH-01



CFC\_1000

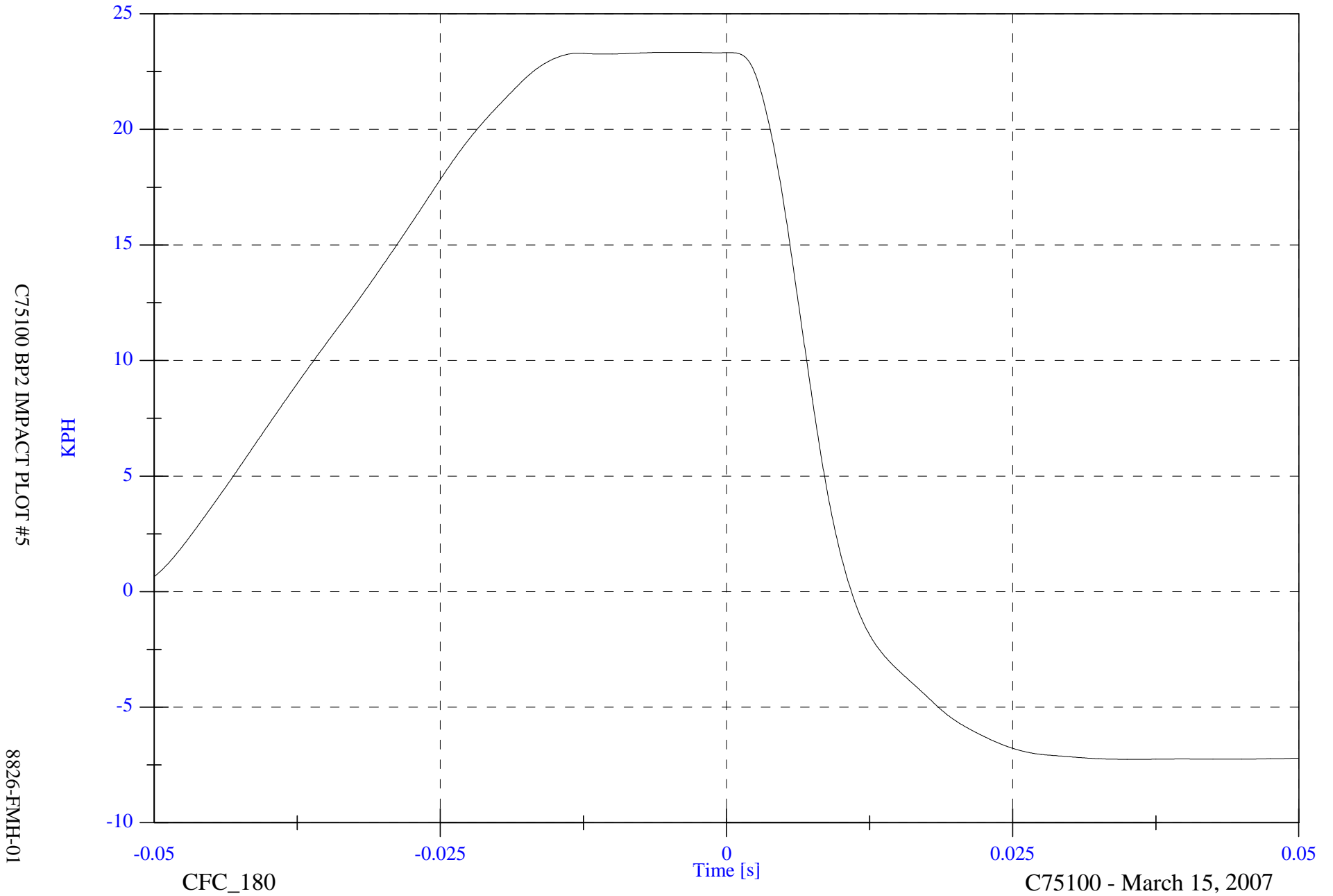
C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

### Headform Velocity

Max: 23.3 [KPH] at -0.005 [s]

Min: -7.3 [KPH] at 0.036 [s]



C75100 BP2 IMPACT PLOT #5

8826-FMH-01

CFC\_180

Time [s]

C75100 - March 15, 2007



PRE-IMPACT BP2



POST-IMPACT BP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	10
Test Date:	03/15/07
Target Location:	UPPER ROOF
Target Code:	URBP
Horizontal Impact Angle:	270°
Vertical Impact Angle:	50°
Ambient Temperature:	21.8°C
Relative Humidity:	25.3
Time of Impact:	12:42
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	4	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	40				mm up



POST-IMPACT URBP HEADFORM

Free Motion HIC	598.4
HIC(d)	617.8
Impact Velocity (kph)	23.46
HIC T1 (msec)	3.1
HIC T2 (msec)	12.9

# FMVSS 201U 2007 Toyota Camry C75100 - URBP

FMH Headform 0062

Location: URBP

Test Date: March 15, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.8 C

HICd: 617.8

Lab Humidity: 25.3 %

HIC (36ms): 598.4

Velocity at Impact: 23.46 KPH

t1: 3.1 msec

t2: 12.9 msec

Free Flight Distance: 223.22 mm

Duration: 9.8 msec

Maximum: 99.1 g

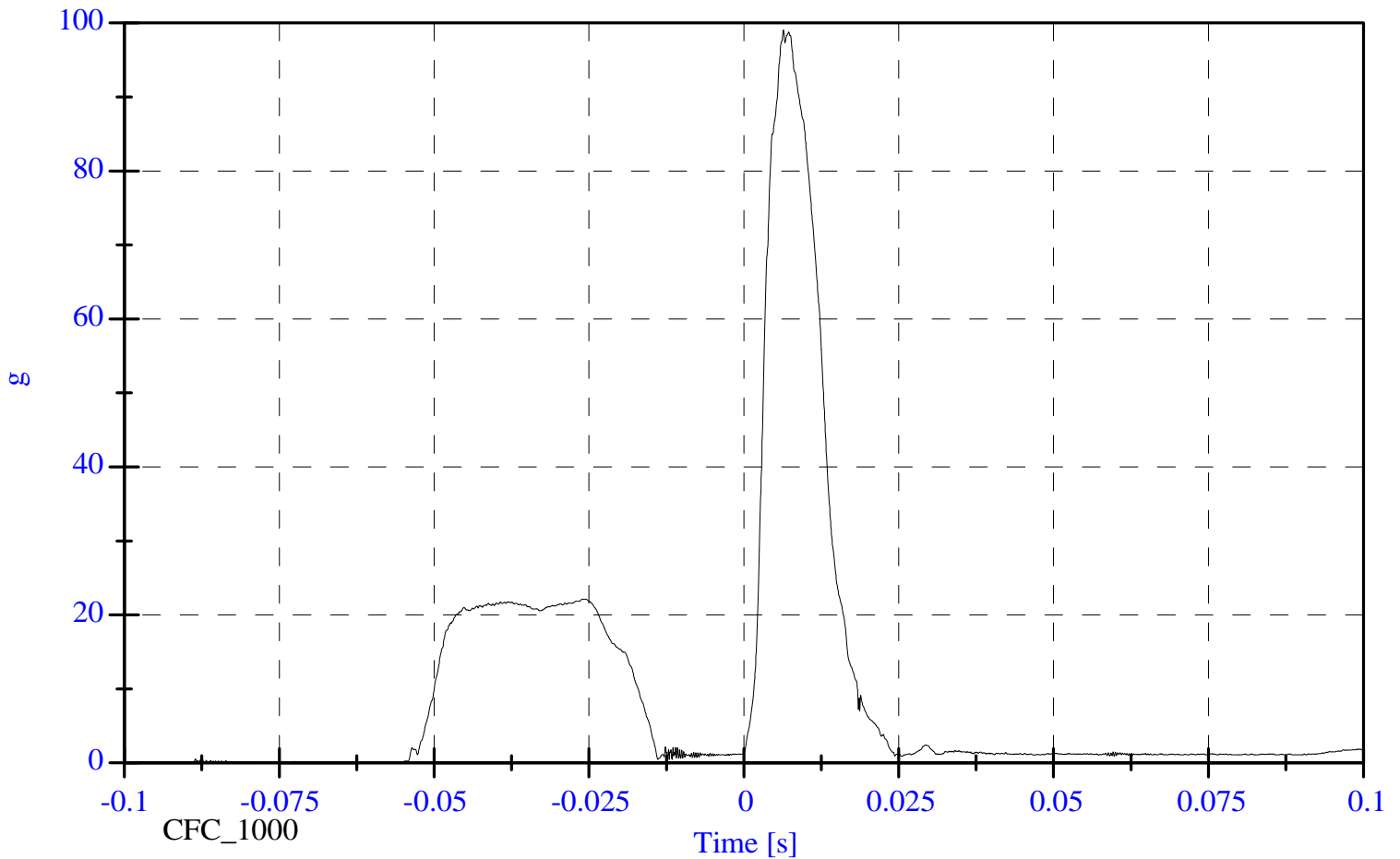
Average Acceleration: 9.0 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 99.1 [g] at 0.006 [s]

Min: 0.0 [g] at -0.069 [s]



FMVSS 201U 2007 Toyota Camry

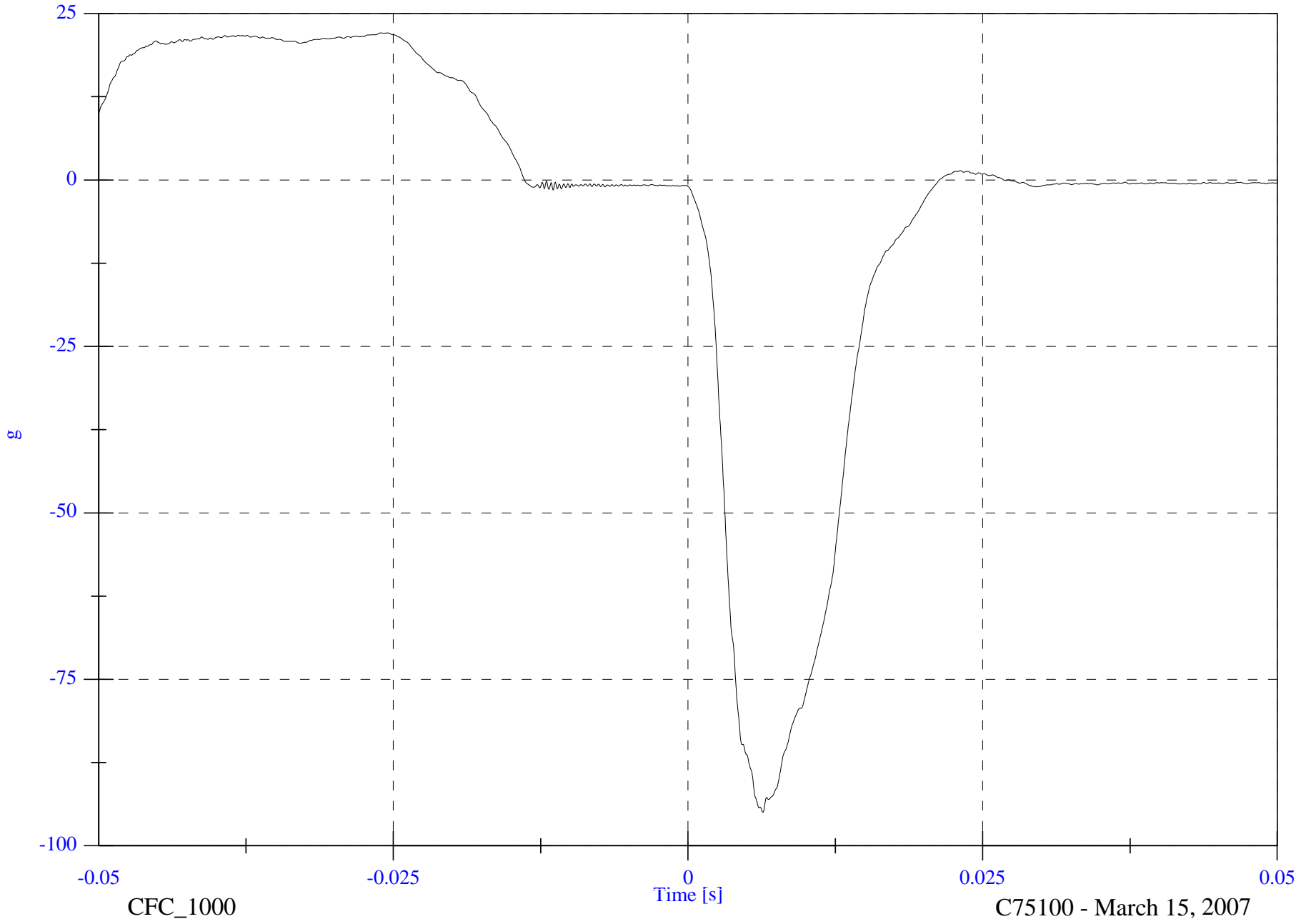
Headform X Acceleration

Max: 22.1 [g] at -0.026 [s]

Min: -95.0 [g] at 0.006 [s]

C75100 URBP IMPACT PLOT #1

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

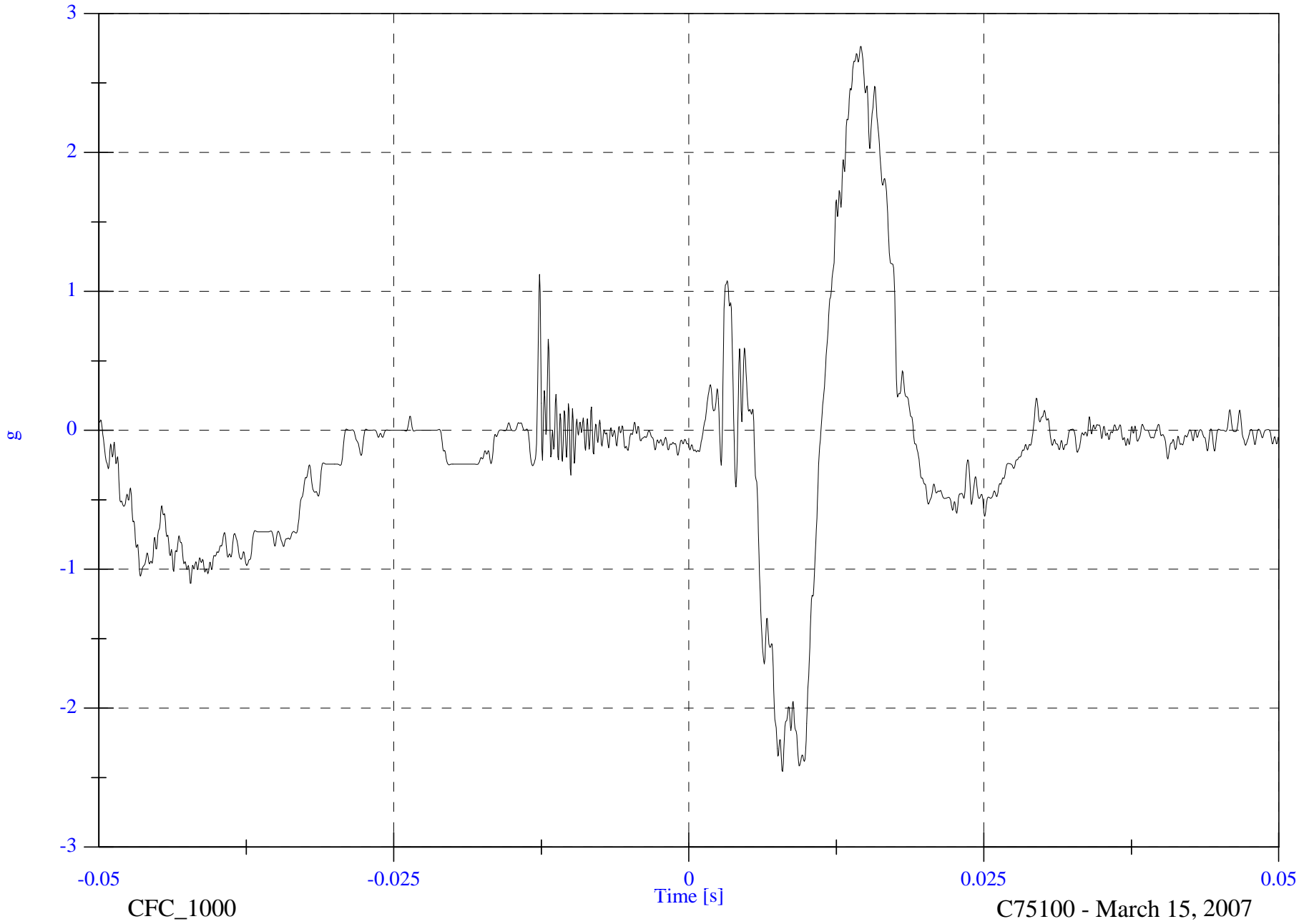
Headform Y Acceleration

Max: 2.8 [g] at 0.015 [s]

Min: -2.5 [g] at 0.008 [s]

C75100 URBP IMPACT PLOT #2

8826-FMH-01



CFC\_1000

Time [s]

C75100 - March 15, 2007



FMVSS 201U 2007 Toyota Camry

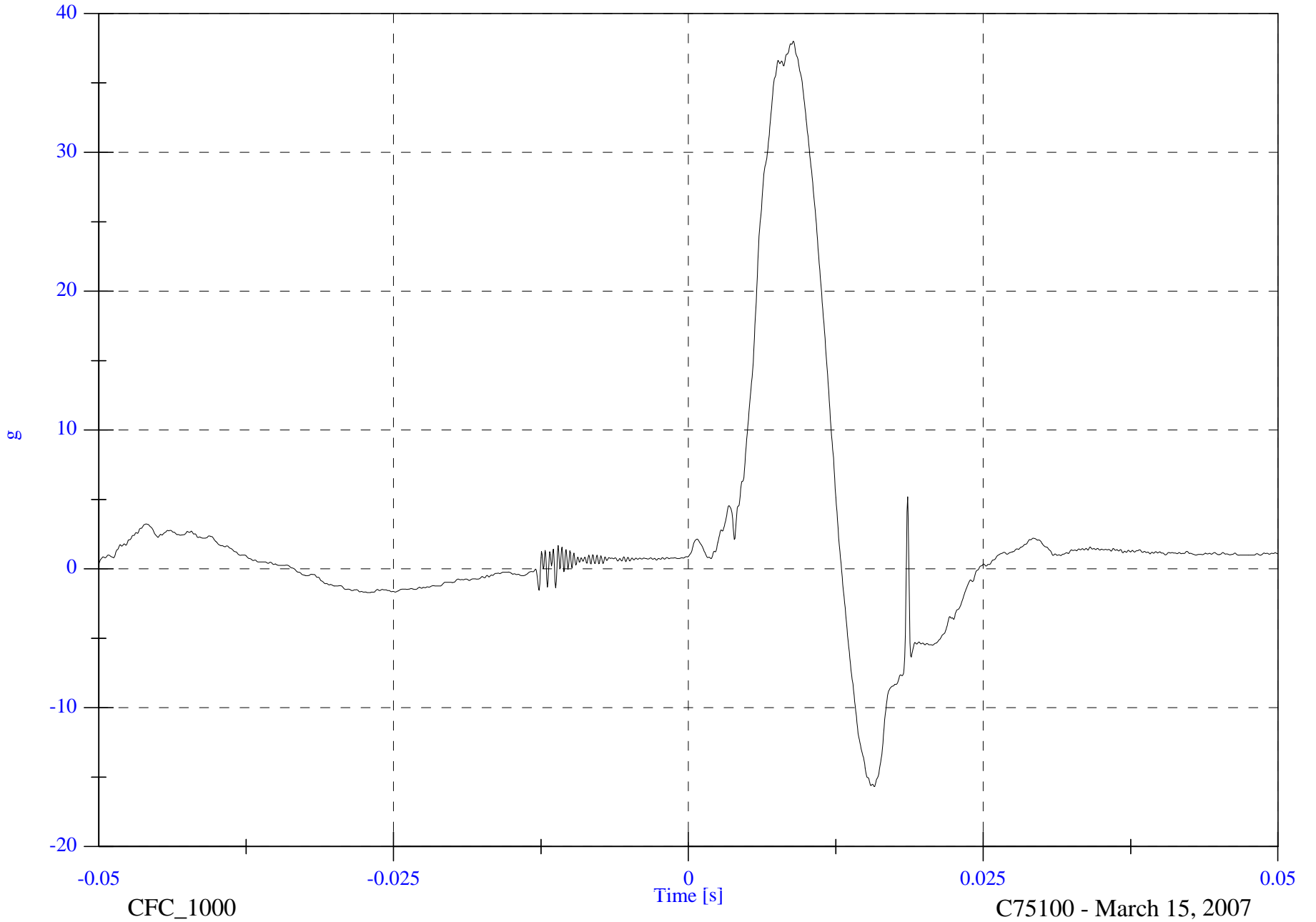
Headform Z Acceleration

Max: 38.0 [g] at 0.009 [s]

Min: -15.7 [g] at 0.016 [s]

C75100 URBP IMPACT PLOT #3

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

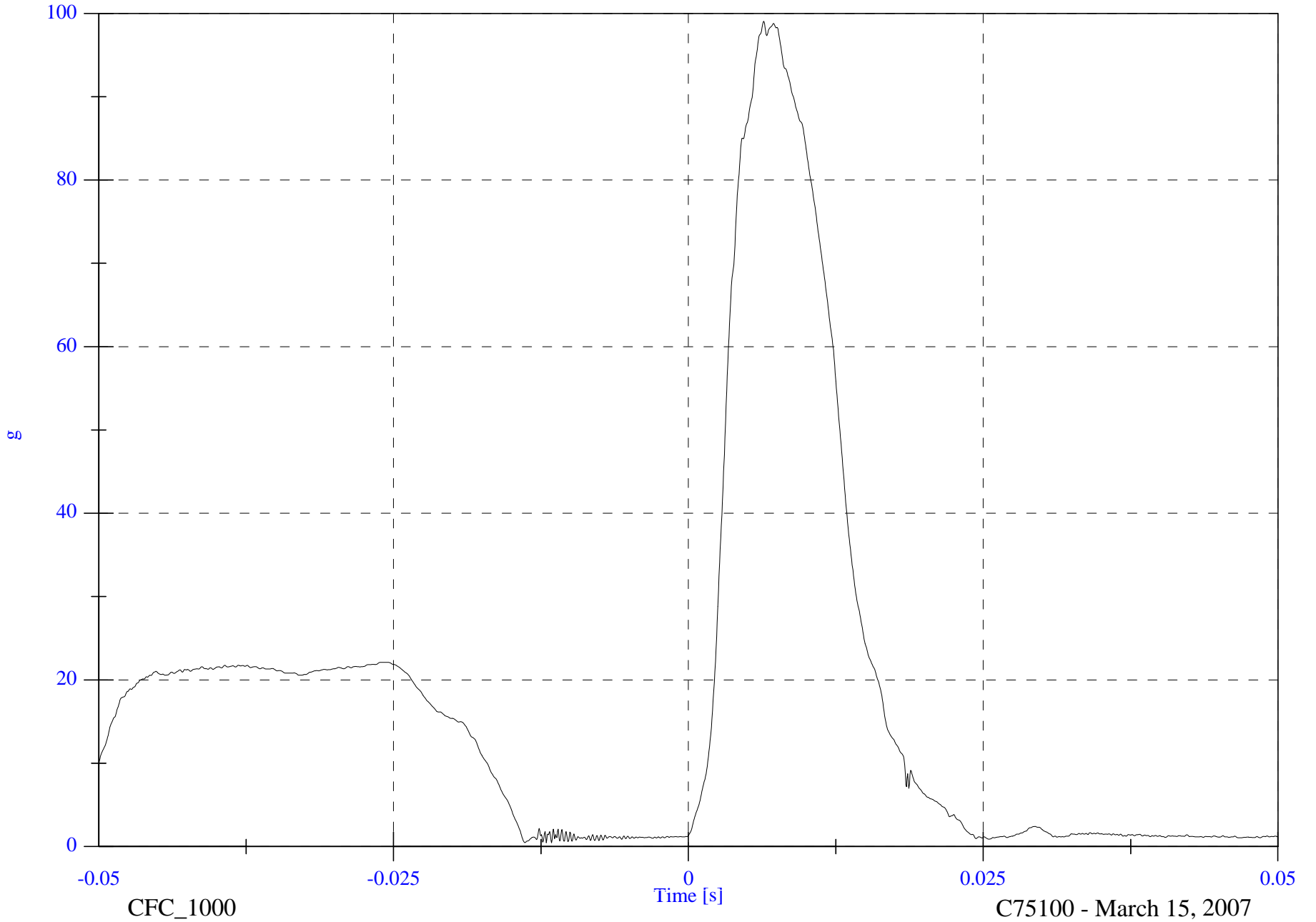
Headform Resultant

Max: 99.1 [g] at 0.006 [s]

Min: 0.4 [g] at -0.012 [s]

C75100 URBP IMPACT PLOT #4

8826-FMH-01



CFC\_1000

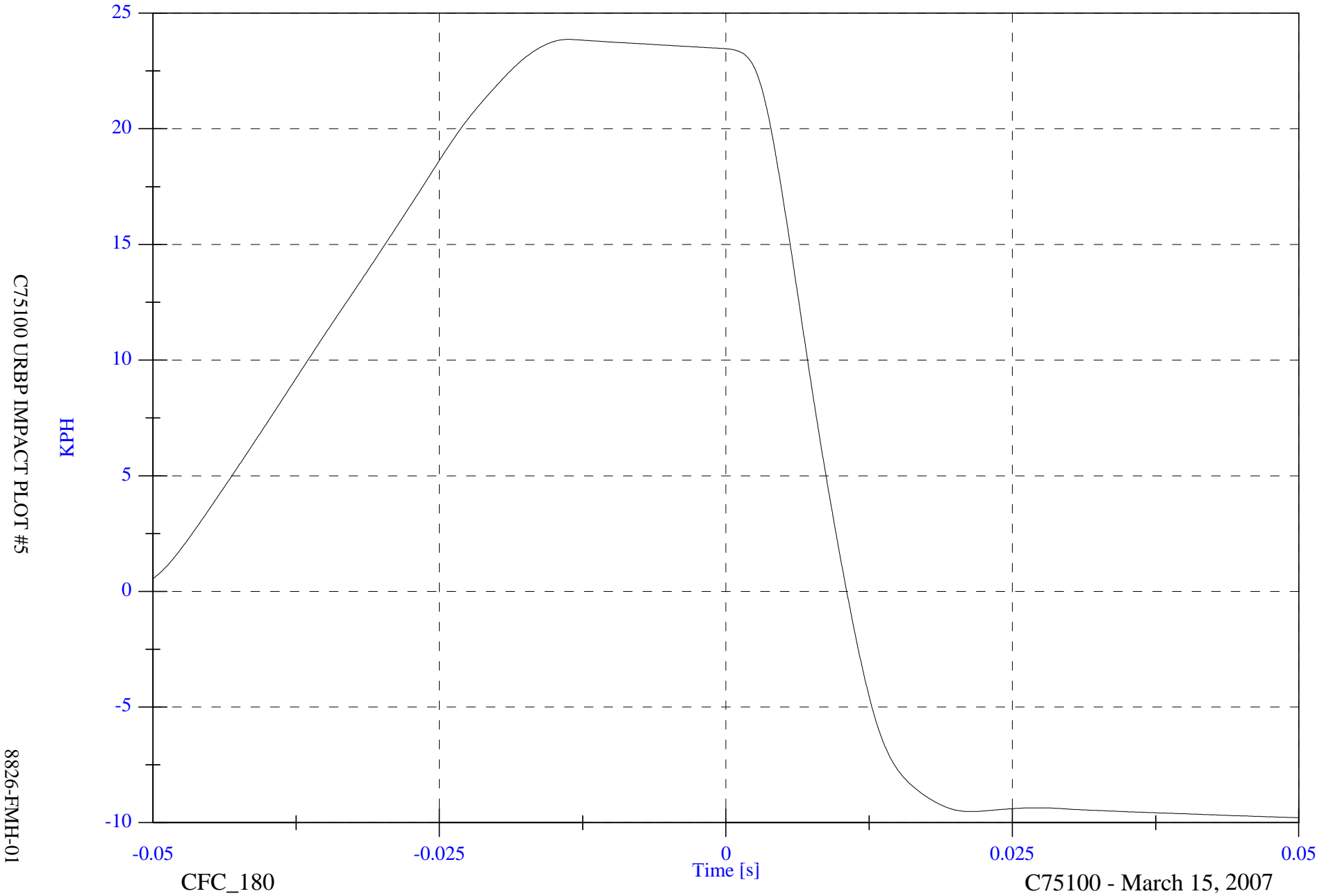
C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

Max: 23.9 [KPH] at -0.014 [s]

Min: -9.8 [KPH] at 0.050 [s]

### Headform Velocity



C75100 URBP IMPACT PLOT #5

8826-FMH-01

CFC\_180

Time [s]

C75100 - March 15, 2007



PRE-IMPACT URBP



POST-IMPACT URBP

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	11
Test Date:	03/15/07
Target Location:	SIDE RAIL
Target Code:	SR3
Horizontal Impact Angle:	270°
Vertical Impact Angle:	35°
Ambient Temperature:	21.8°C
Relative Humidity:	23.2
Time of Impact:	2:30
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	0	<input type="checkbox"/>	mm right <input type="checkbox"/> mm left
On Centerline	6		mm up



POST-IMPACT SR3 HEADFORM

Free Motion HIC	210.4
HIC(d)	325.2
Impact Velocity (kph)	18.53
HIC T1 (msec)	1.9
HIC T2 (msec)	11.7

# FMVSS 201U 2007 Toyota Camry C75100 - SR3

FMH Headform 0355

Location: SR3

Test Date: March 15, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.8 C

HICd: 325.2

Lab Humidity: 23.2 %

HIC (36ms): 210.4

Velocity at Impact: 18.53 KPH

t1: 1.9 msec

t2: 11.7 msec

Free Flight Distance: 223.99 mm

Duration: 9.8 msec

Maximum: 72.8 g

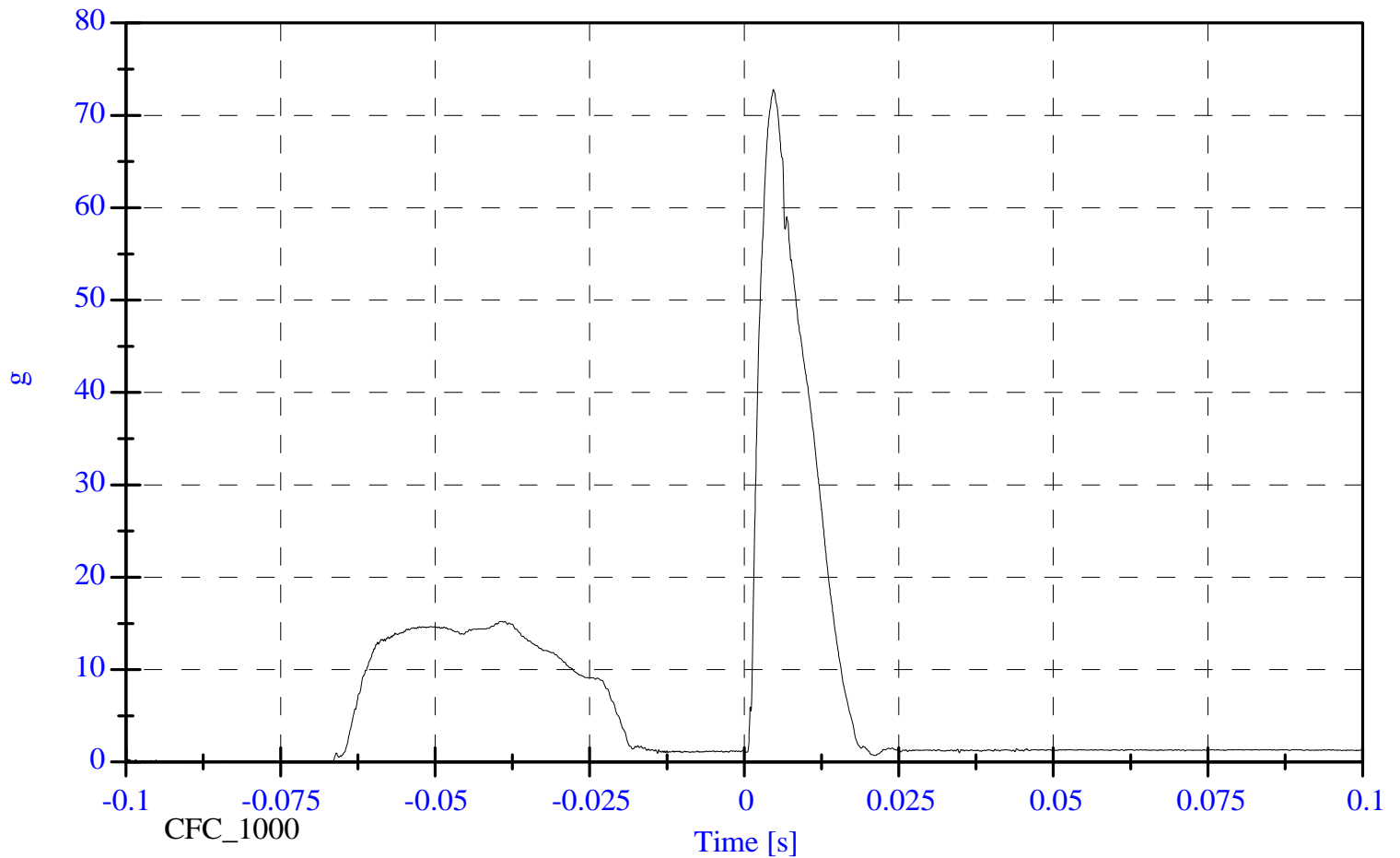
Average Acceleration: 6.6 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 72.8 [g] at 0.005 [s]

Min: 0.0 [g] at -0.069 [s]



FMVSS 201U 2007 Toyota Camry

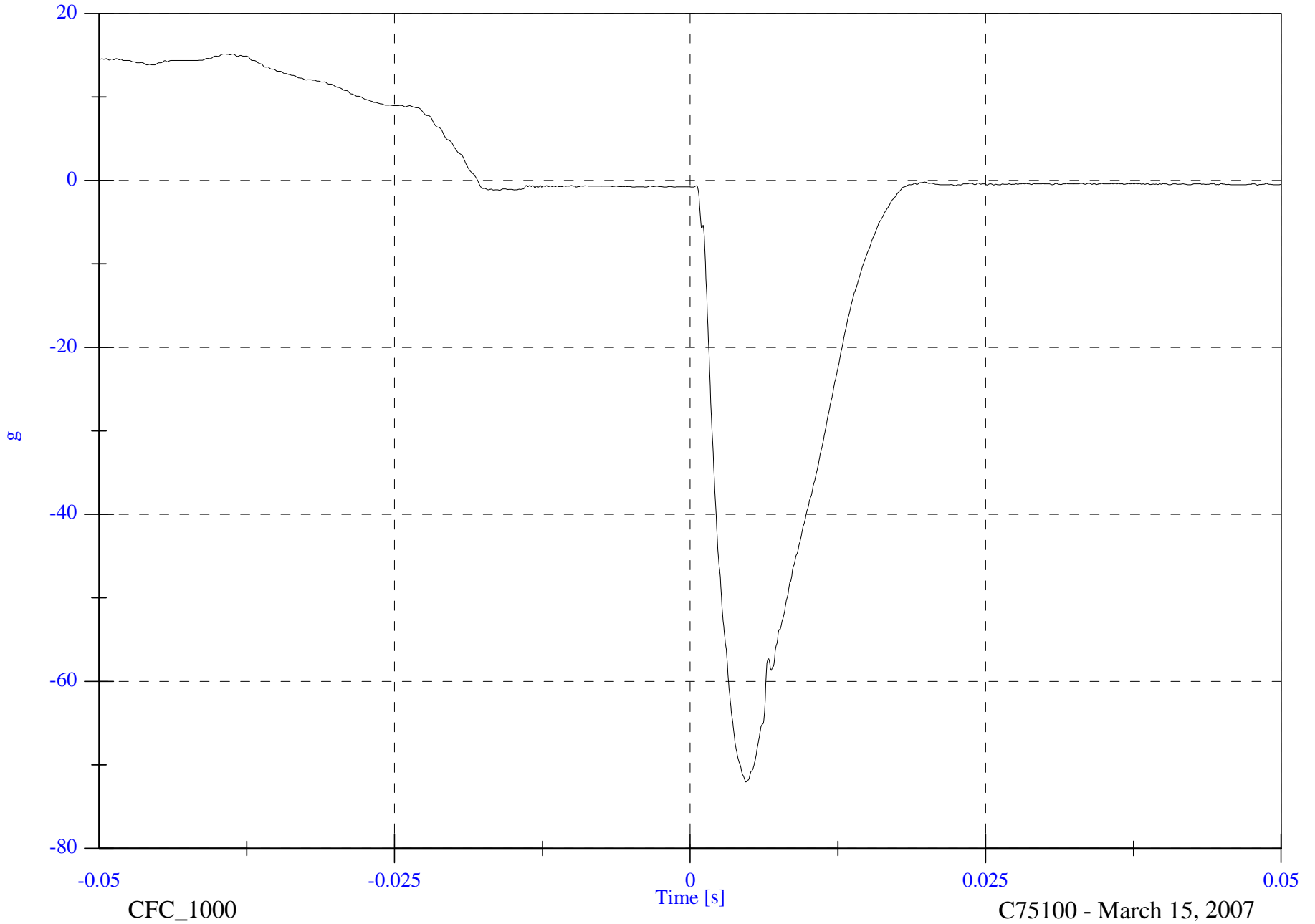
Headform X Acceleration

Max: 15.1 [g] at -0.039 [s]

Min: -72.1 [g] at 0.005 [s]

C75100 SR3 IMPACT PLOT #1

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007



FMVSS 201U 2007 Toyota Camry

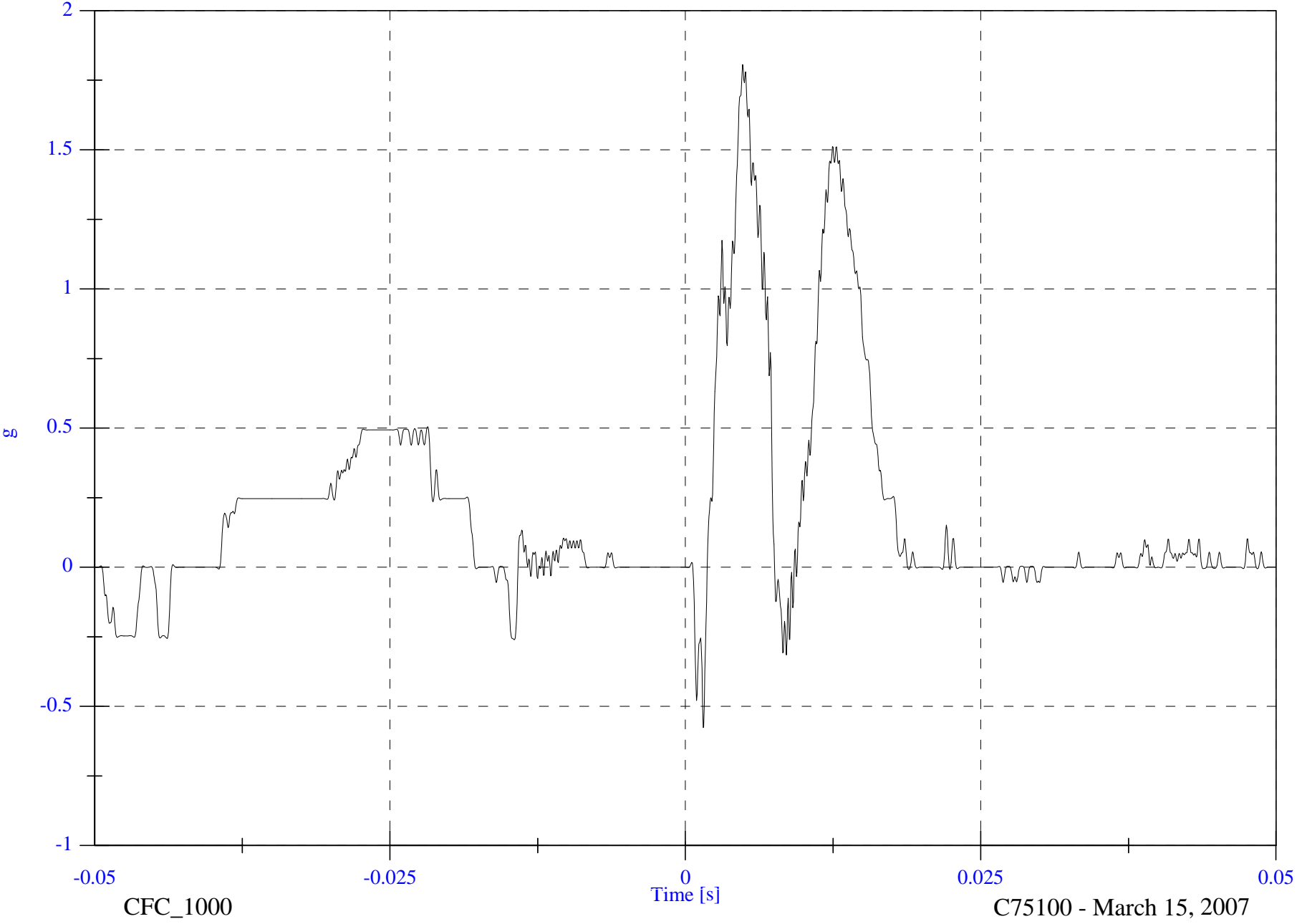
Headform Y Acceleration

Max: 1.8 [g] at 0.005 [s]

Min: -0.6 [g] at 0.001 [s]

C75100 SR3 IMPACT PLOT #2

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

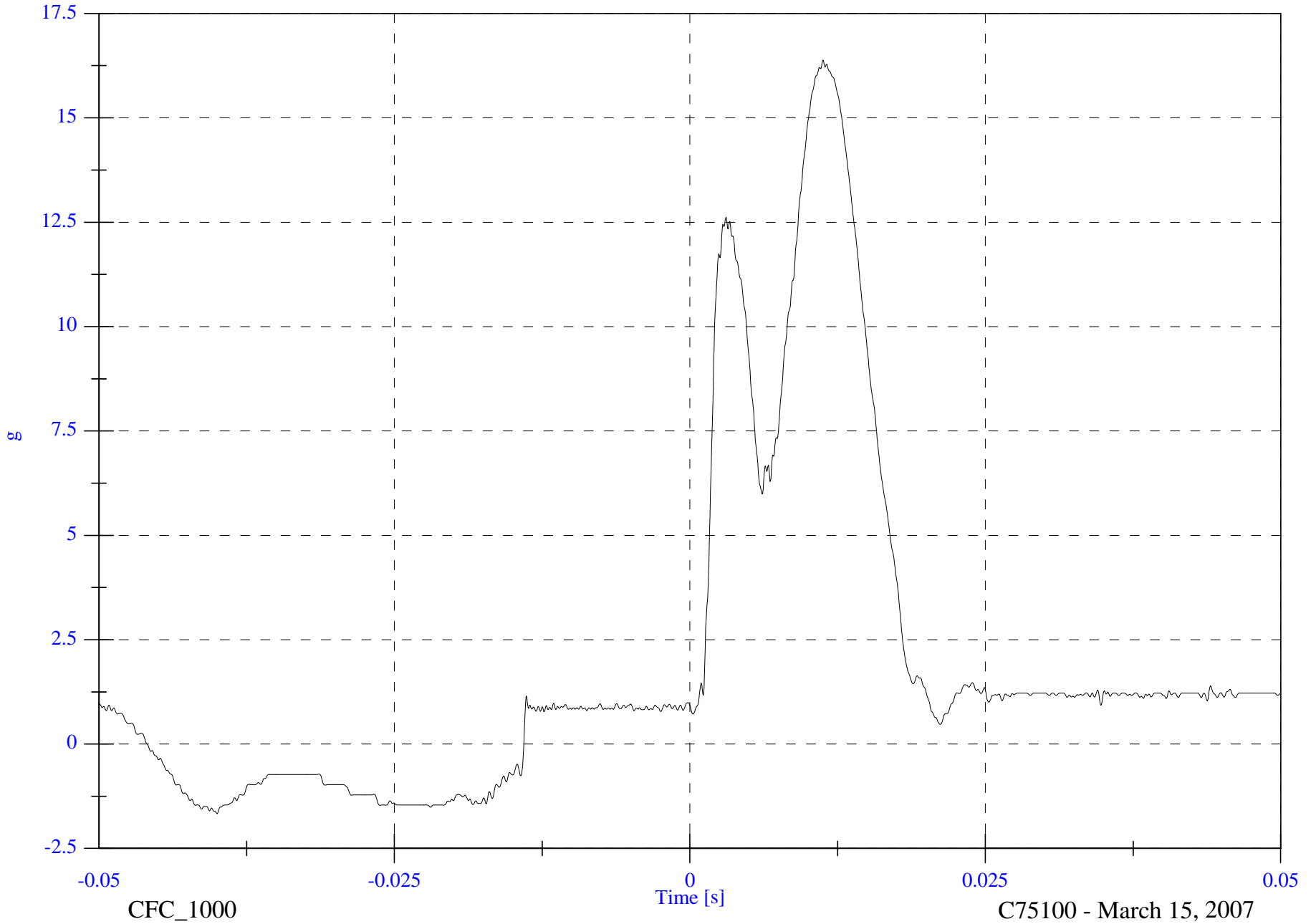
Headform Z Acceleration

Max: 16.4 [g] at 0.011 [s]

Min: -1.7 [g] at -0.040 [s]

C75100 SR3 IMPACT PLOT #3

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

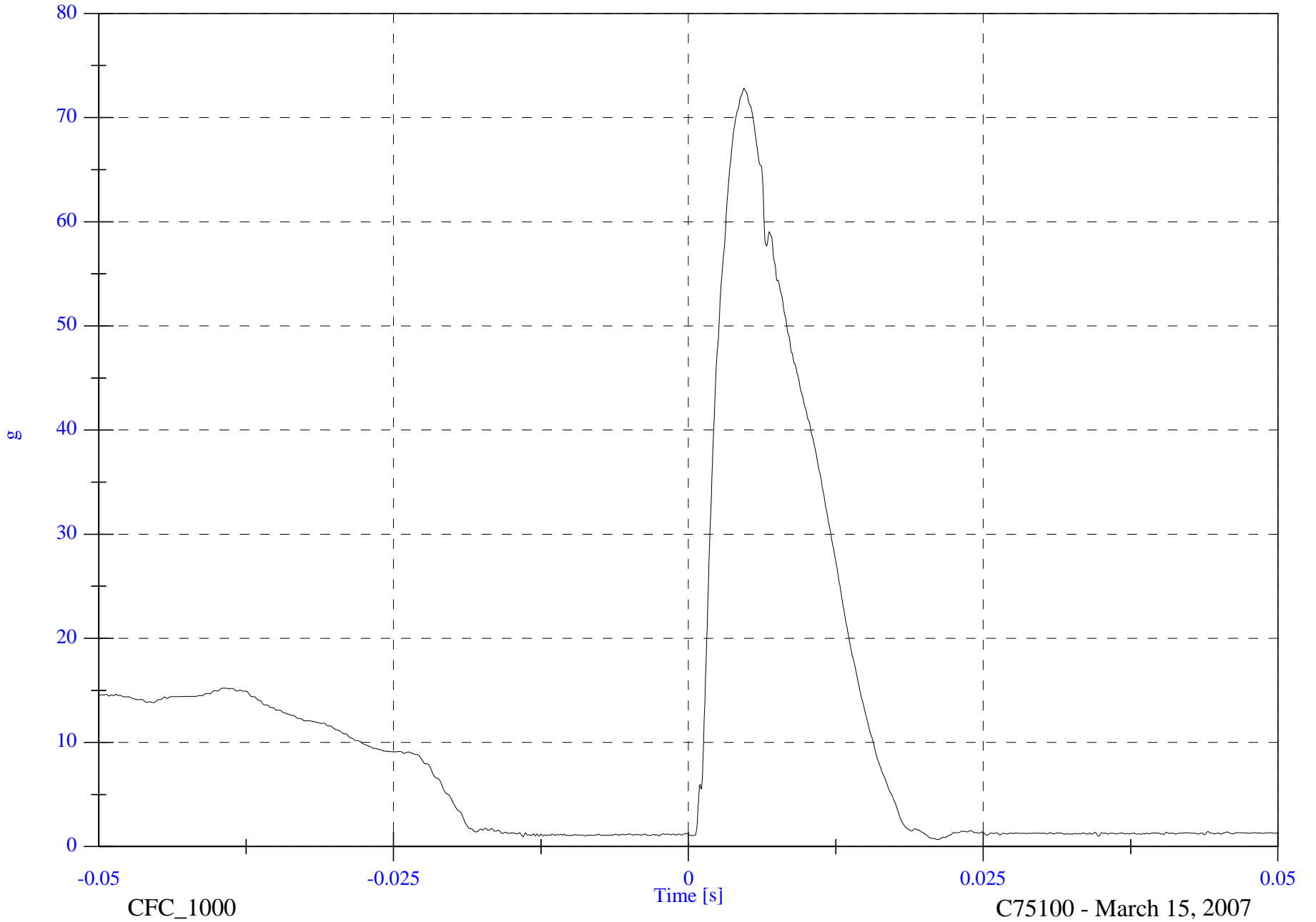
Headform Resultant

Max: 72.8 [g] at 0.005 [s]

Min: 0.7 [g] at 0.021 [s]

C75100 SR3 IMPACT PLOT #4

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

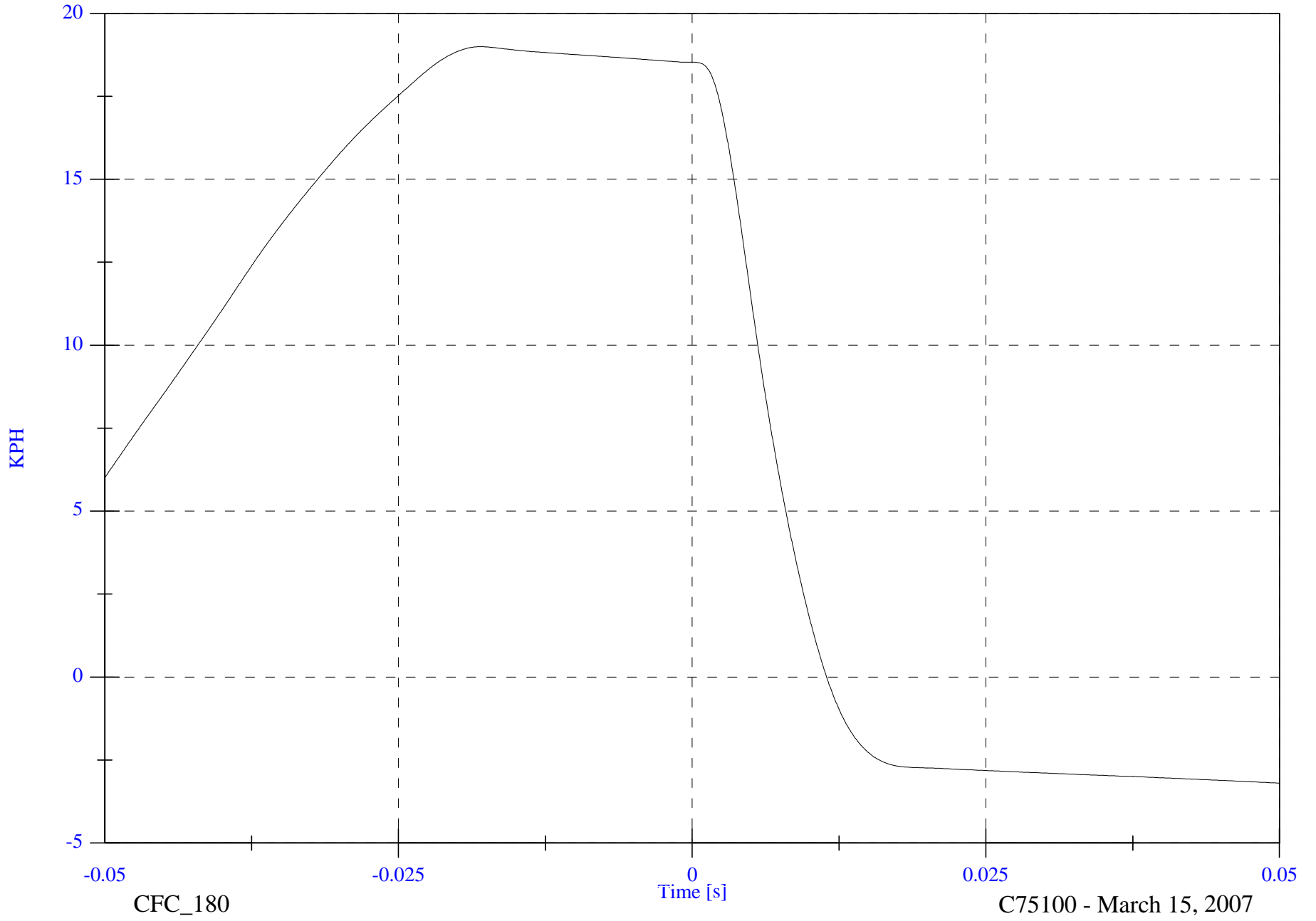
### Headform Velocity

Max: 19.0 [KPH] at -0.018 [s]

Min: -3.2 [KPH] at 0.050 [s]

C75100 SR3 IMPACT PLOT #5

8826-FMH-01



CFC\_180

Time [s]

C75100 - March 15, 2007



PRE-IMPACT SR3



POST-IMPACT SR3

VEHICLE YEAR/MAKE/MODEL/STYLE:	2007 Toyota Camry 4-door Sedan
VIN:	4T1BE46K47U038100
DATE OF MANUFACTURE:	06/06(SEE CERTIFICATION LABEL)
COLOR:	Gold

Test Number:	12
Test Date:	03/15/07
Target Location:	UPPER ROOF
Target Code:	URRP
Horizontal Impact Angle:	320E
Vertical Impact Angle:	50E
Ambient Temperature:	21.7EC
Relative Humidity:	22.6
Time of Impact:	14:24
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	6	mm right	x mm left
On Centerline	28	mm up	



POST-IMPACT URRP HEADFORM

Free Motion HIC	444.3
HIC(d)	501.6
Impact Velocity (kph)	23.3
HIC T1 (msec)	4.1
HIC T2 (msec)	15.6

# FMVSS 201U 2007 Toyota Camry C75100 - URRP

FMH Headform 0642

Location: URRP

Test Date: March 15, 2007

Work File: fmh

## -----TEST RESULTS-----

Lab Temperature: 21.7 C

HICd: 501.6

Lab Humidity: 22.6 %

HIC (36ms): 444.3

Velocity at Impact: 23.30 KPH

t1: 4.1 msec

t2: 15.6 msec

Free Flight Distance: 219.46 mm

Duration: 11.5 msec

Maximum: 102.7 g

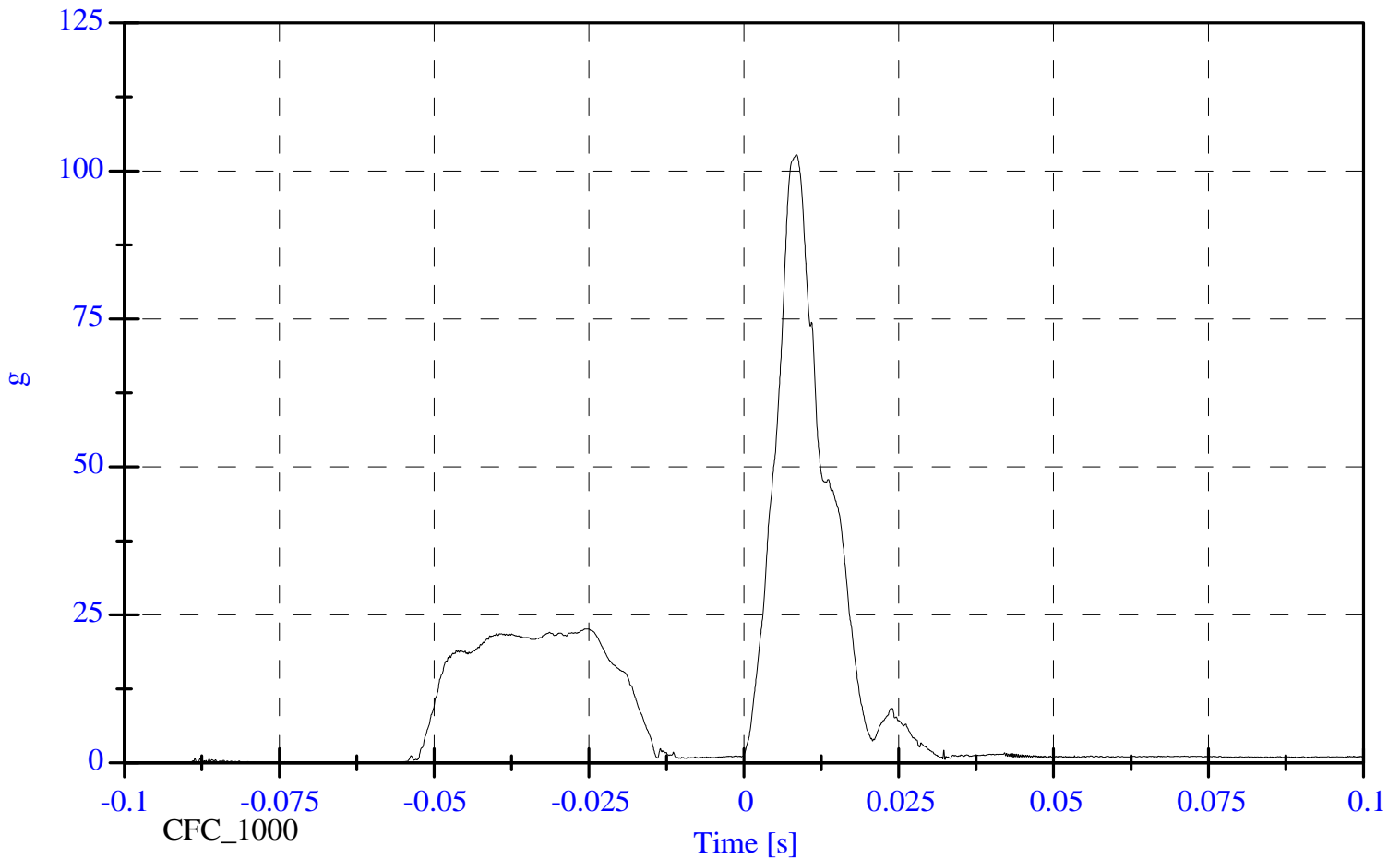
Average Acceleration: 8.8 g

FMVSS 201U 2007 Toyota Camry

Headform Resultant

Max: 102.7 [g] at 0.008 [s]

Min: 0.0 [g] at -0.062 [s]



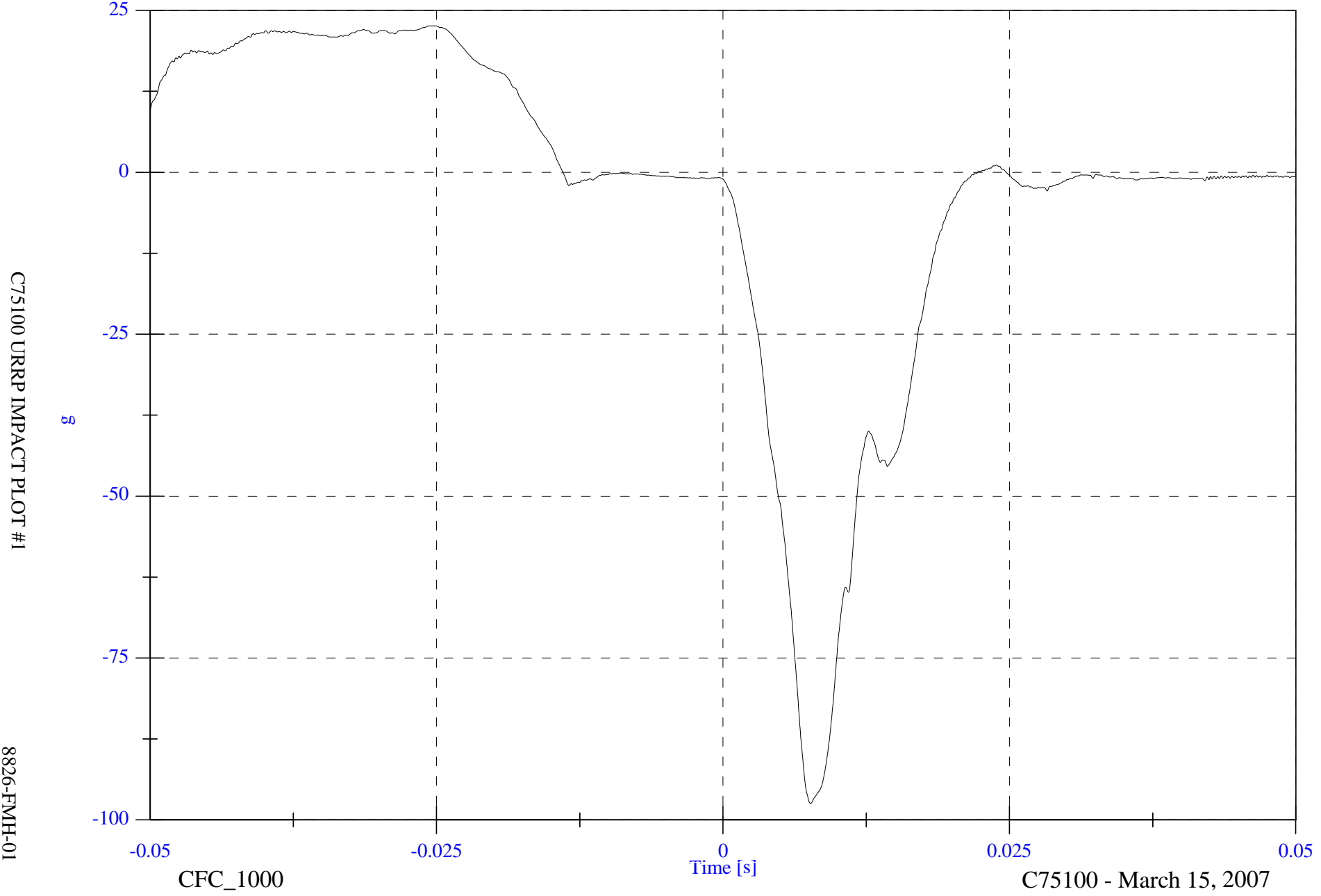


FMVSS 201U 2007 Toyota Camry

Headform X Acceleration

Max: 22.6 [g] at -0.025 [s]

Min: -97.4 [g] at 0.008 [s]



C75100 URRP IMPACT PLOT #1

8826-FMH-01

CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

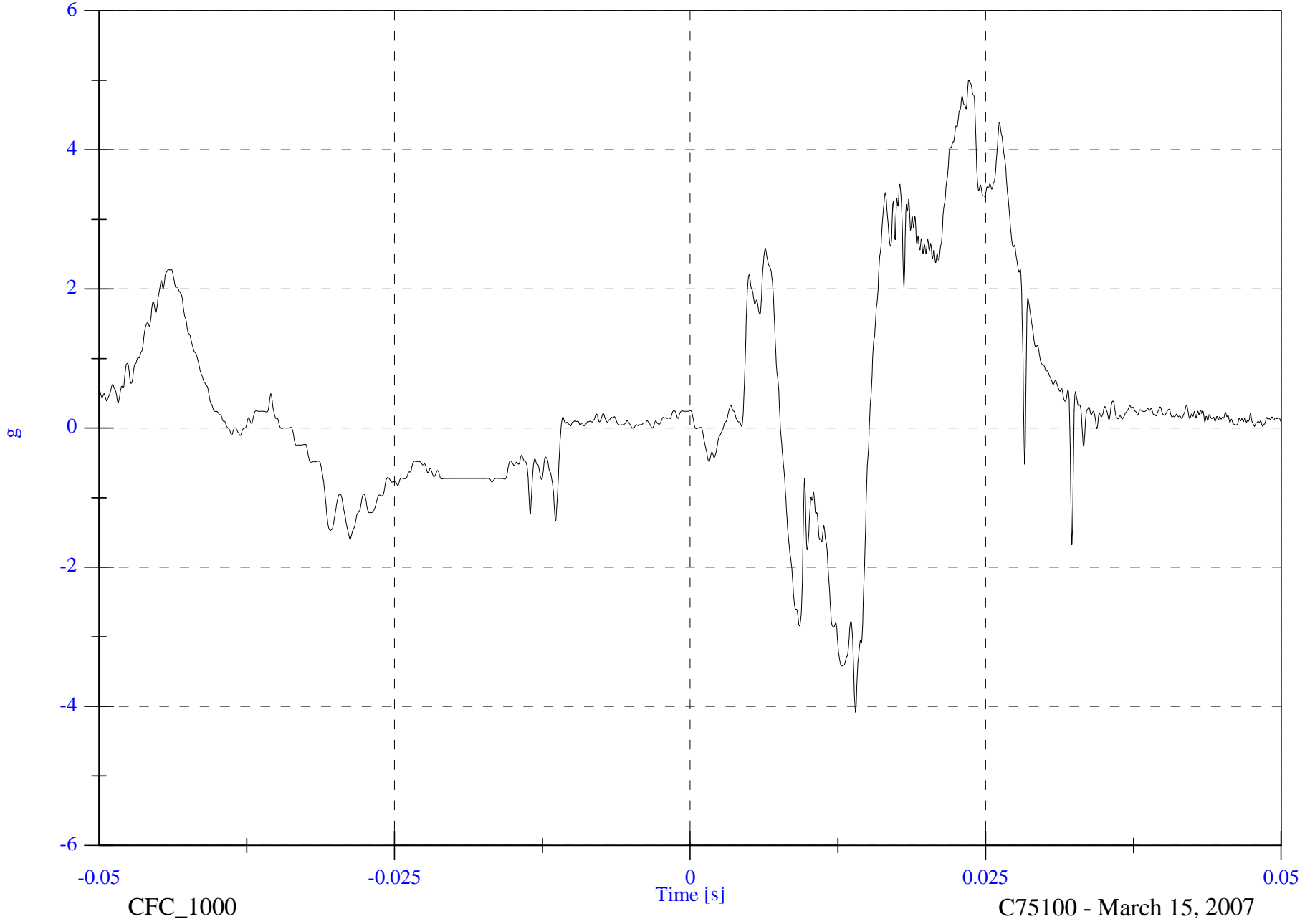
Headform Y Acceleration

Max: 5.0 [g] at 0.024 [s]

Min: -4.1 [g] at 0.014 [s]

C75100 URRP IMPACT PLOT #2

8826-FMH-01



CFC\_1000

Time [s]

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

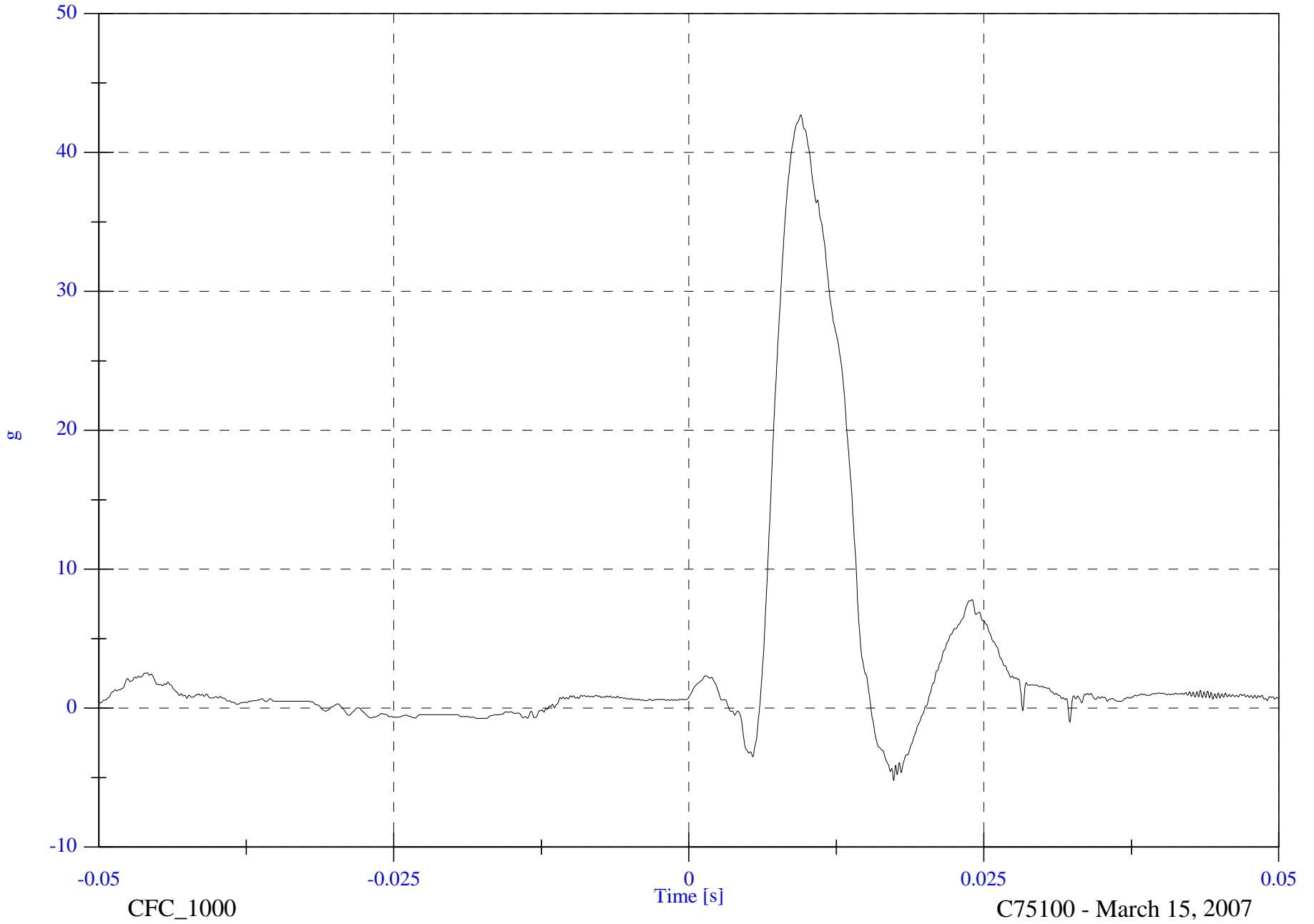
Headform Z Acceleration

Max: 42.7 [g] at 0.010 [s]

Min: -5.2 [g] at 0.017 [s]

C75100 URRP IMPACT PLOT #3

8826-FMH-01



CFC\_1000

C75100 - March 15, 2007

FMVSS 201U 2007 Toyota Camry

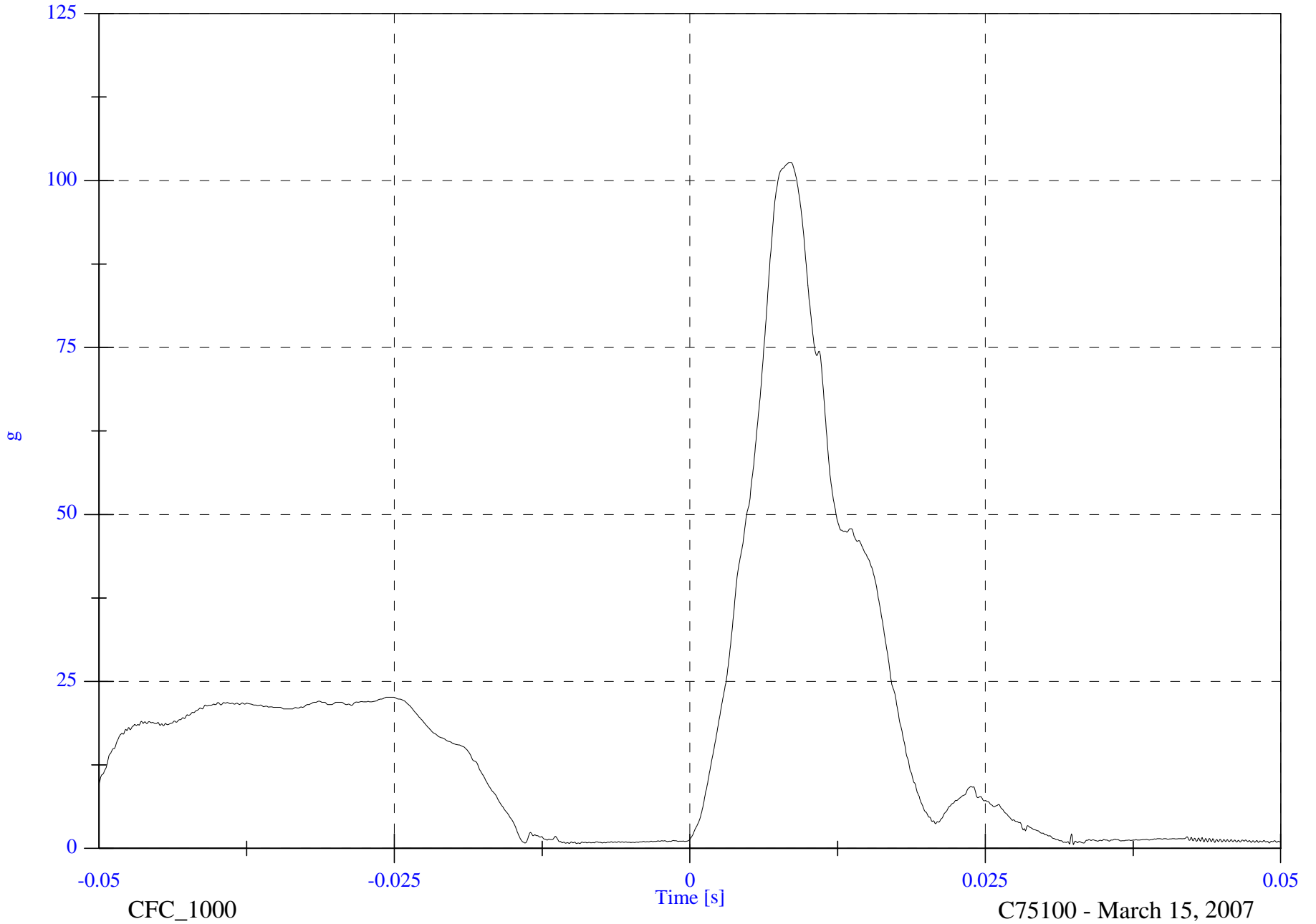
Headform Resultant

Max: 102.7 [g] at 0.008 [s]

Min: 0.6 [g] at 0.032 [s]

C75100 URRP IMPACT PLOT #4

8826-FMH-01



FMVSS 201U 2007 Toyota Camry

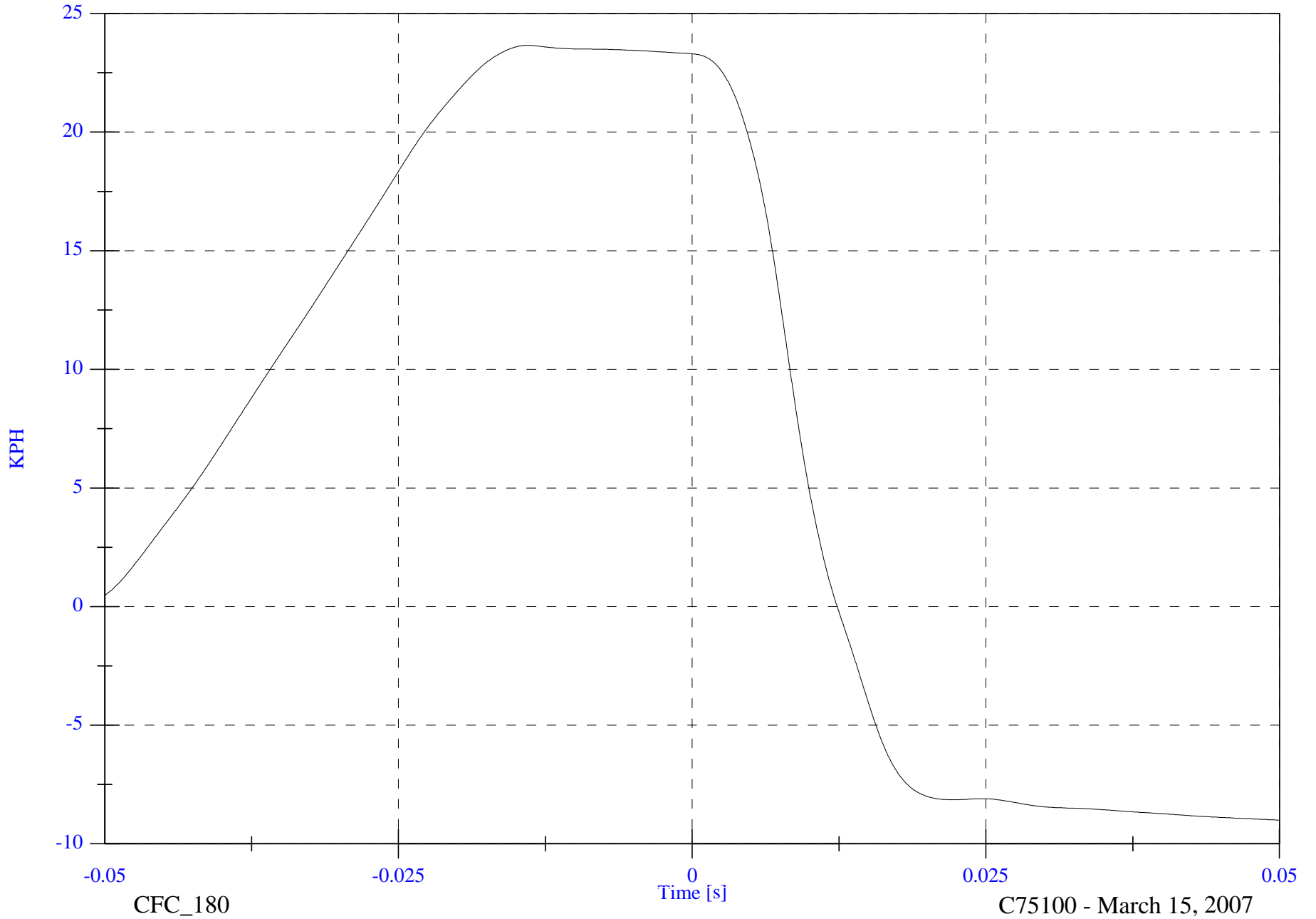
### Headform Velocity

Max: 23.7 [KPH] at -0.014 [s]

Min: -9.0 [KPH] at 0.050 [s]

C75100 URRP IMPACT PLOT #5

8826-FMH-01



CFC\_180

C75100 - March 15, 2007



PRE-IMPACT URRP



POST-IMPACT URRP

**APPENDIX A**

**PHOTOGRAPHS**



## PHOTOGRAPHS

<b>FIGURE</b>	<b>VIEW</b>
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

A-4

8826-FMH-01



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-5 : VEHICLE'S CERTIFICATION LABEL



Figure A-6 : VEHICLE'S TIRE INFORMATION LABEL



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



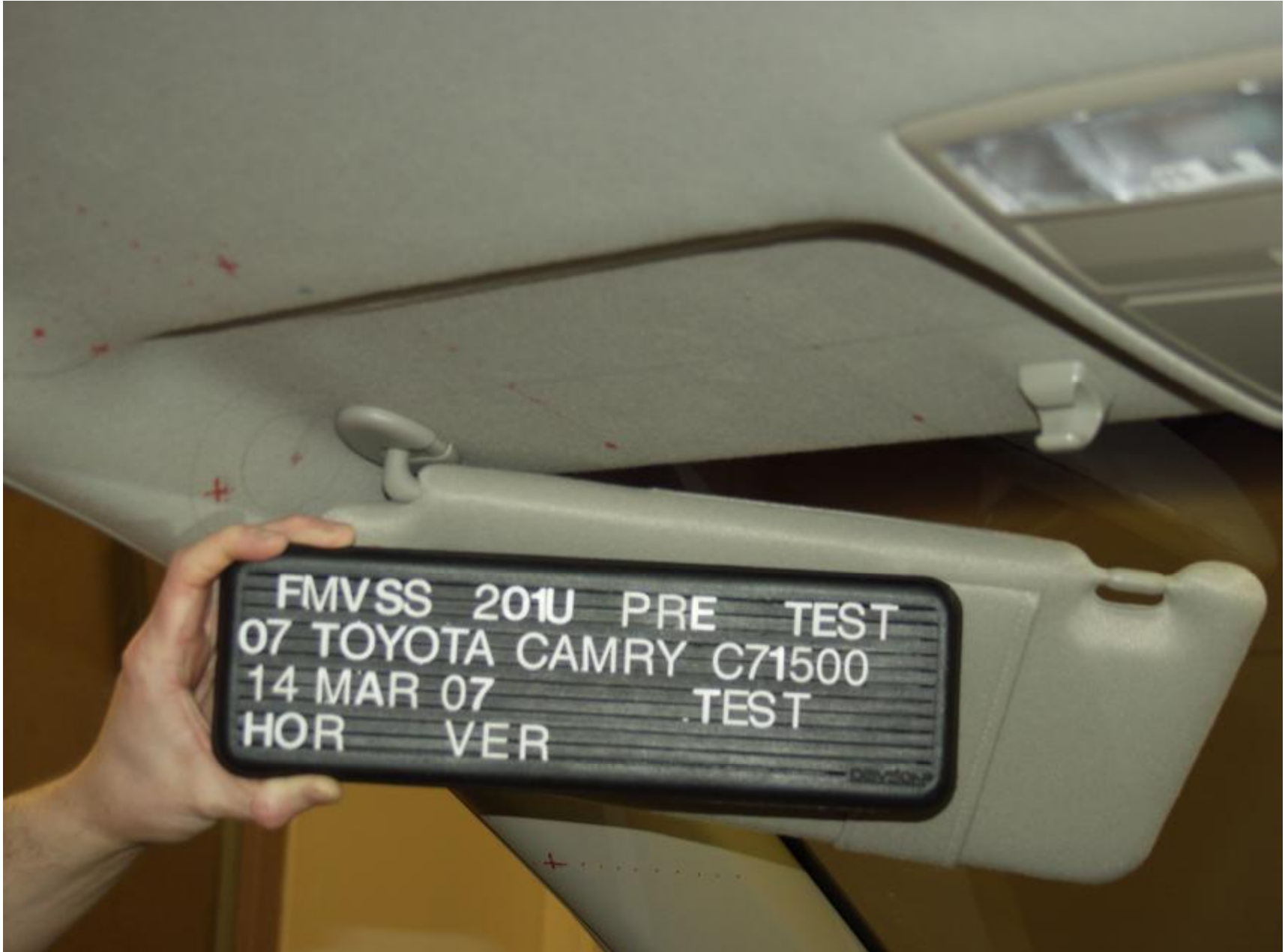


Figure A-8 : PRE-TEST DRIVER SIDE FRONT HEADER



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 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 Calspan Corporation. A summary of the test results are included in this Appendix.

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

<b>MANUFACTURER:</b>		<b>FIRST TECHNOLOGY SAFETY SYSTEMS</b>	
<b>SERIAL NUMBER:</b>		<b>0642</b>	
<b>CALIBRATION DATE:</b>		<b>March 12, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>22.2</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>16</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>248.5</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>10.3</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

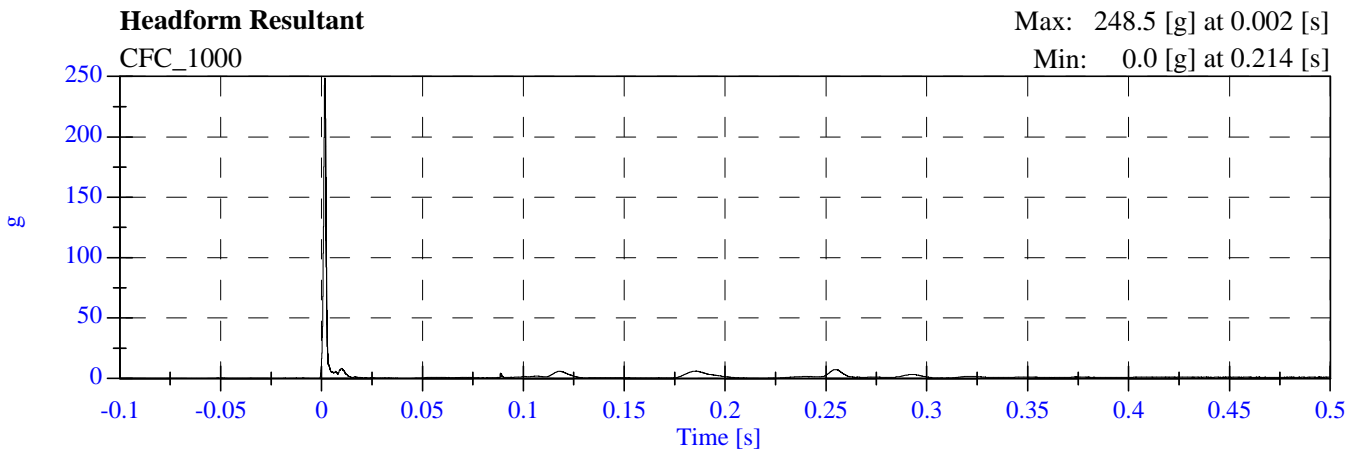
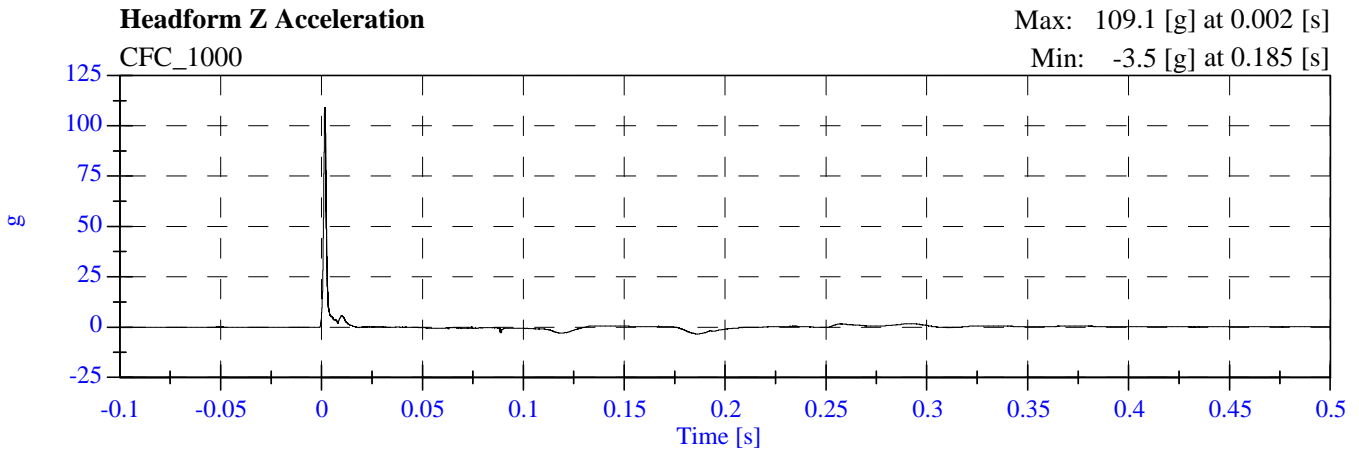
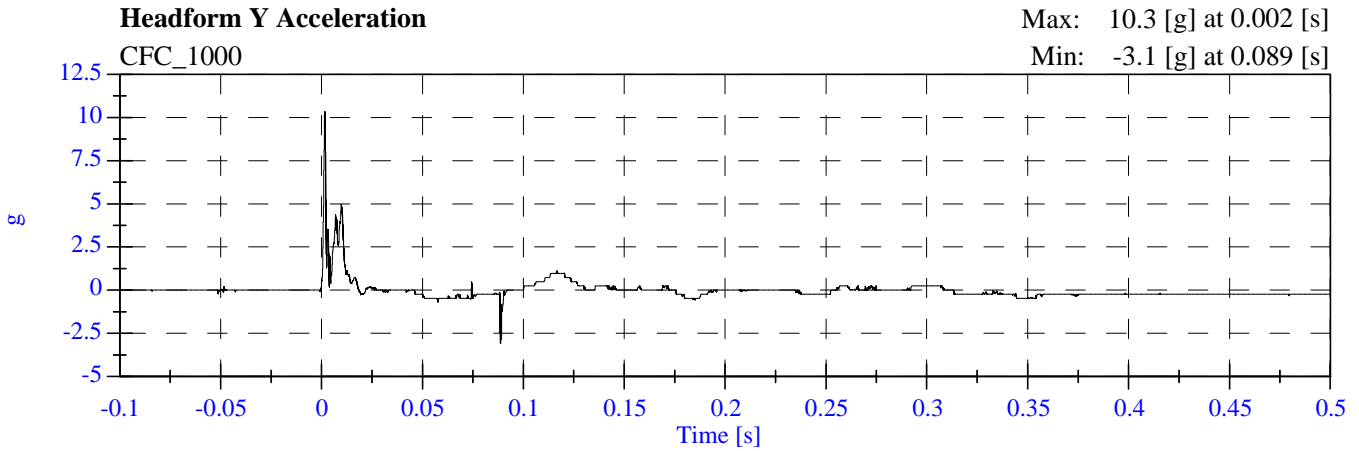
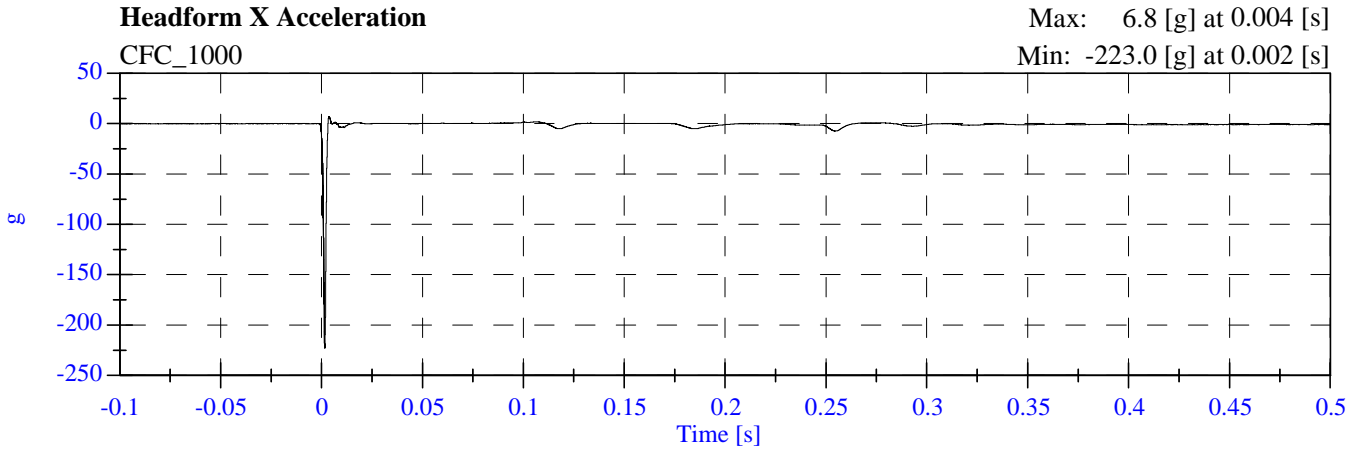
**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J24876</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J33030</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J31009</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops 0642

## C75100 - March 12, 2007



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

<b>MANUFACTURER:</b>		<b>DENTON ATD INC.</b>	
<b>SERIAL NUMBER:</b>		<b>0062</b>	
<b>CALIBRATION DATE:</b>		<b>March 12, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>22.2</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>16</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>258.7</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>10.2</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

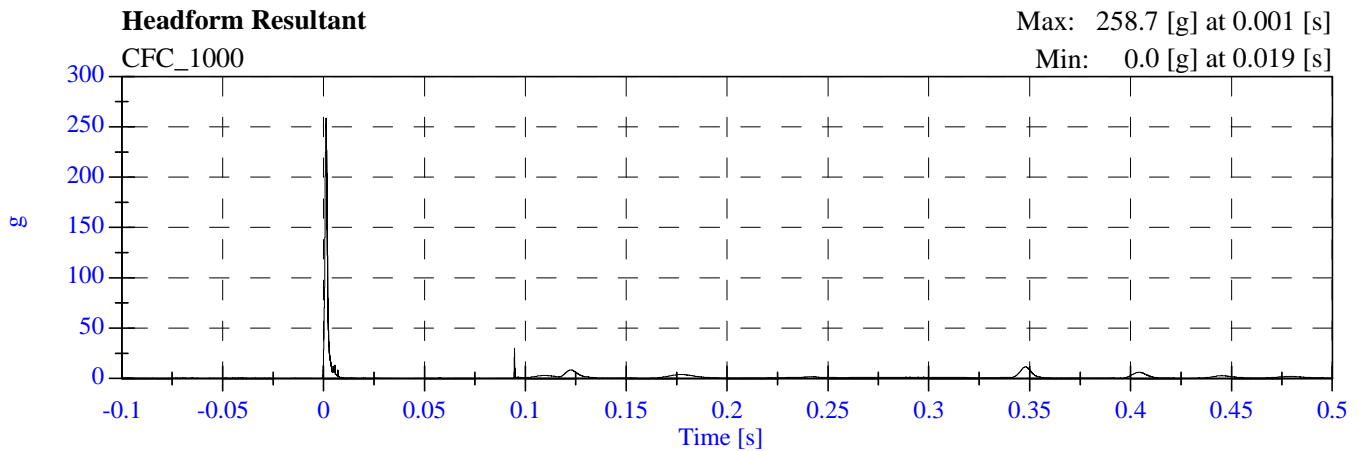
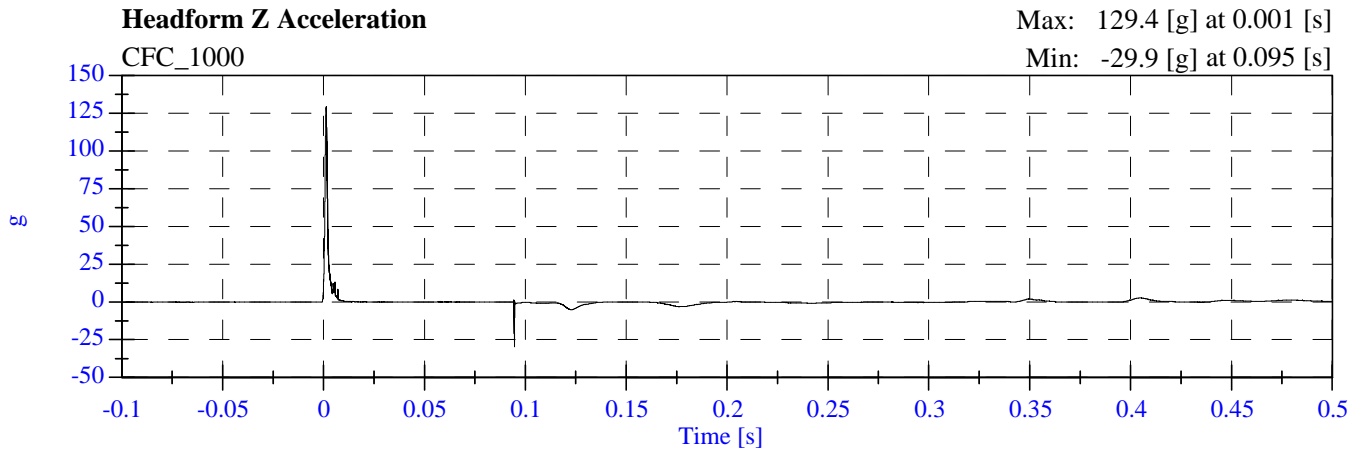
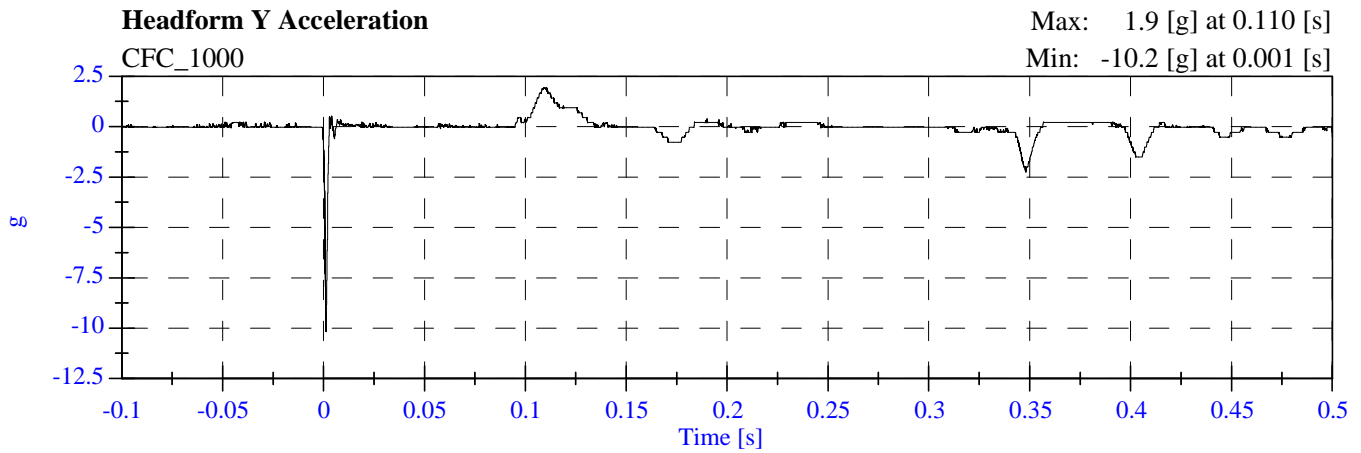
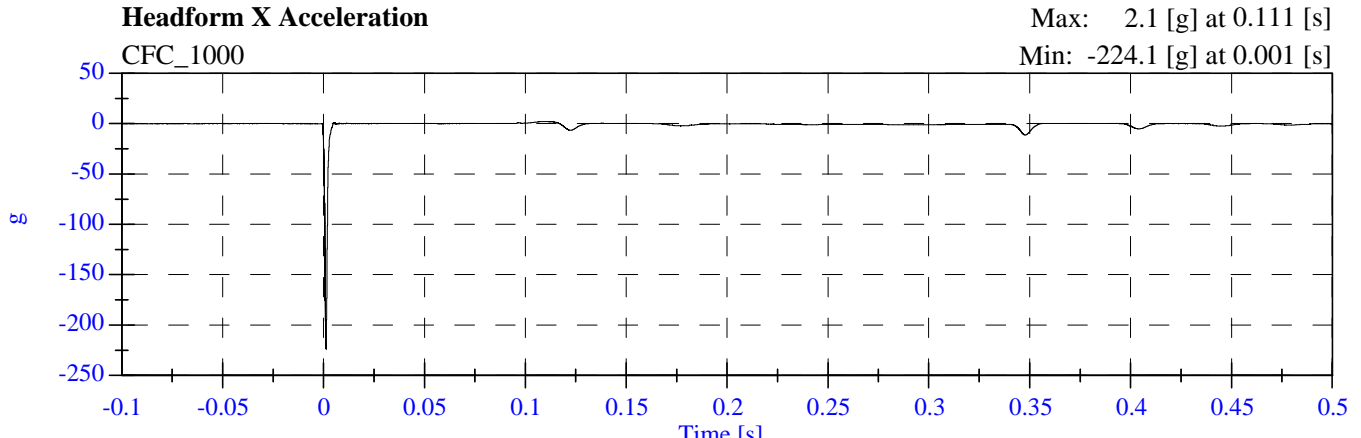
**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J33127</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J33019</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J32782</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops 0062

## C75100 - March 12, 2007





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

<b>MANUFACTURER:</b>		<b>FIRST TECHNOLOGY SAFETY SYSTEMS</b>	
<b>SERIAL NUMBER:</b>		<b>805</b>	
<b>CALIBRATION DATE:</b>		<b>March 12, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>22.2</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>16</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>261.0</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>2.6</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

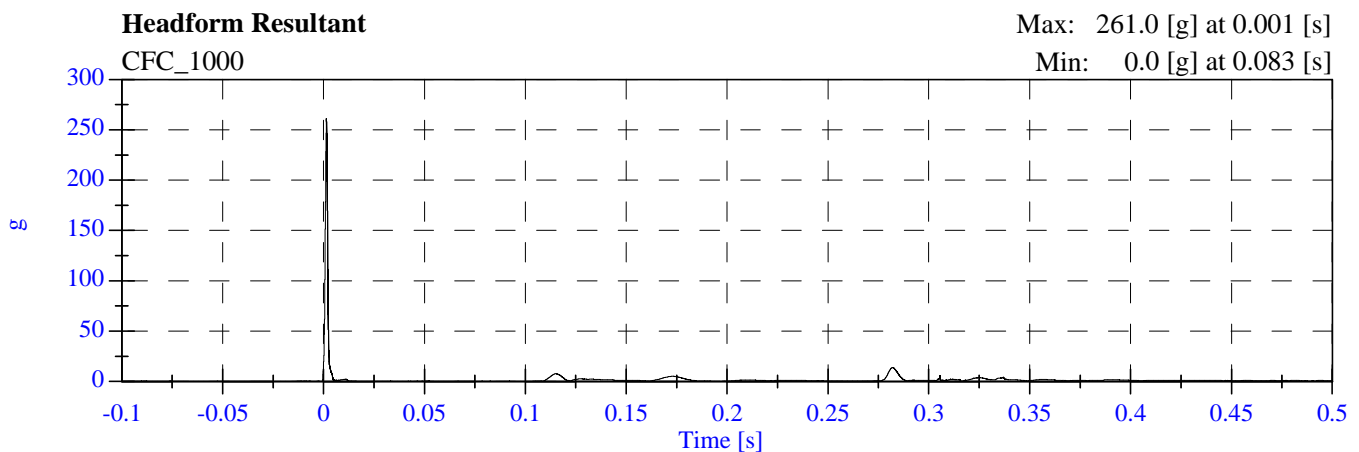
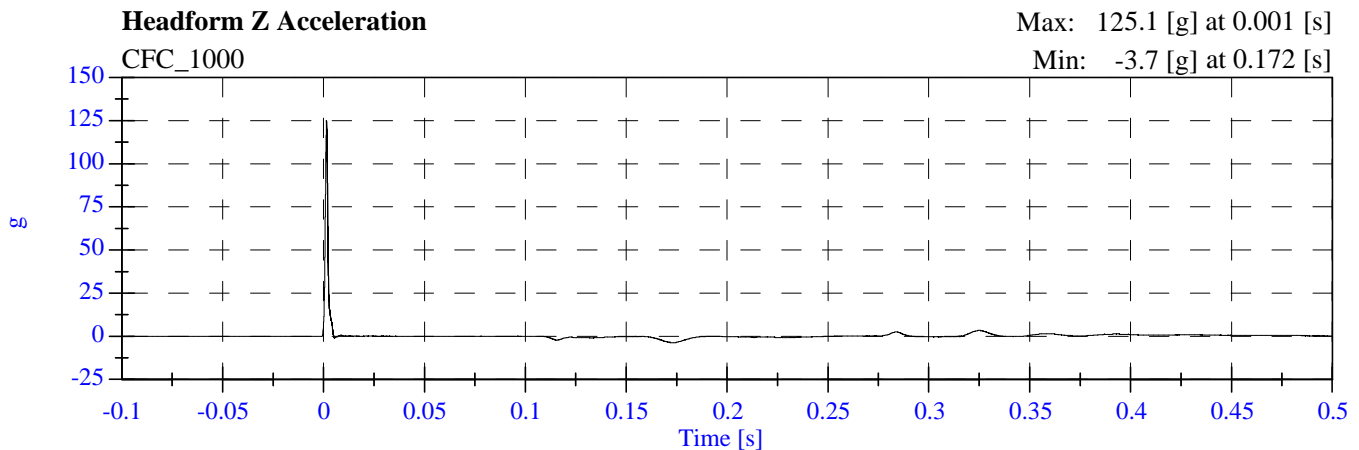
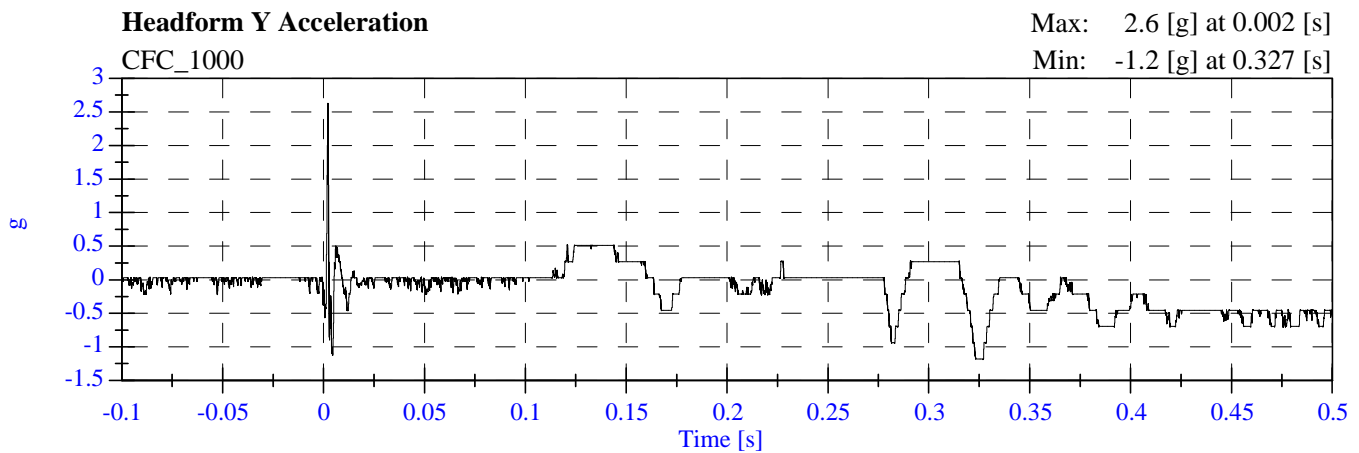
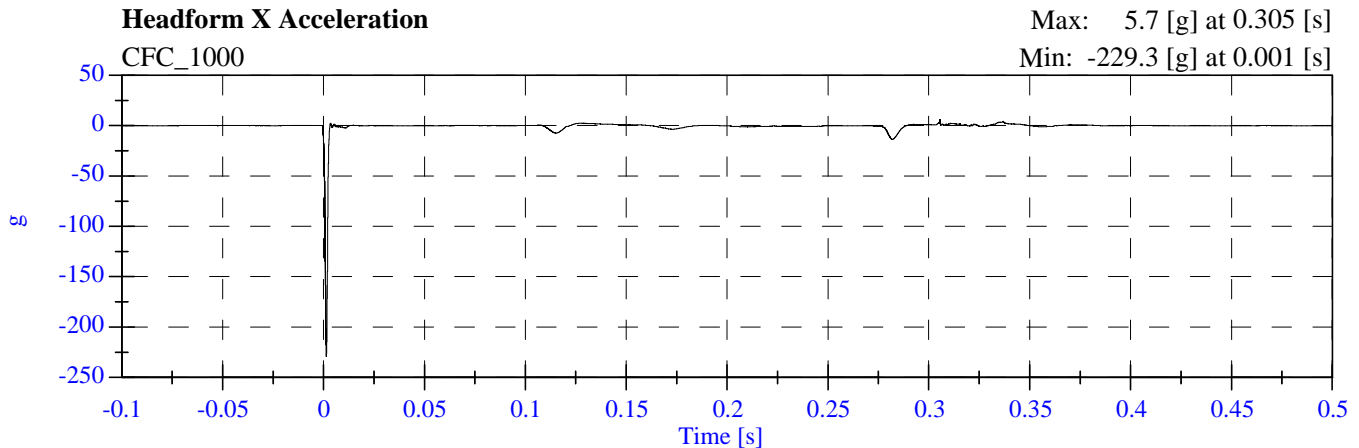
**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J38127</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J37980</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J37854</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops 0805

## C75100 - March 12, 2007



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

<b>MANUFACTURER:</b>		<b>DENTON ATD INC.</b>	
<b>SERIAL NUMBER:</b>		<b>0355</b>	
<b>CALIBRATION DATE:</b>		<b>March 12, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>22.2</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>16</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>243.7</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>4.4</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

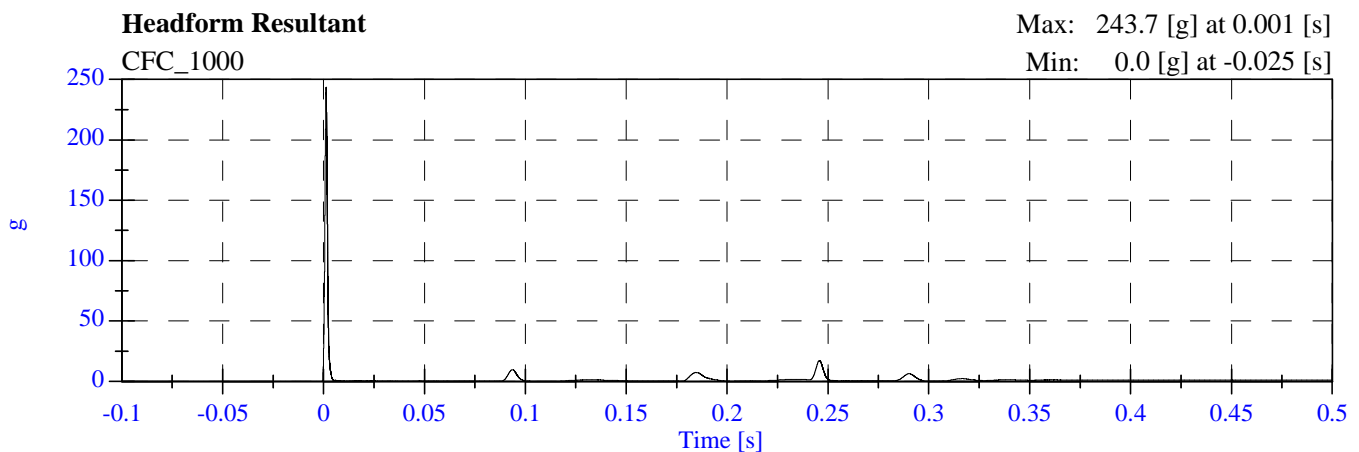
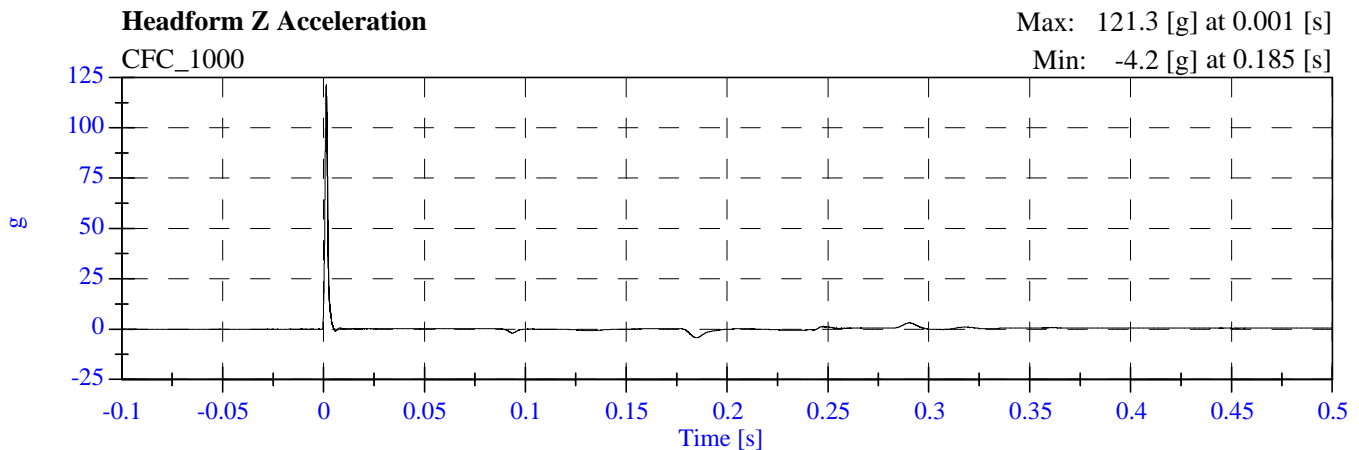
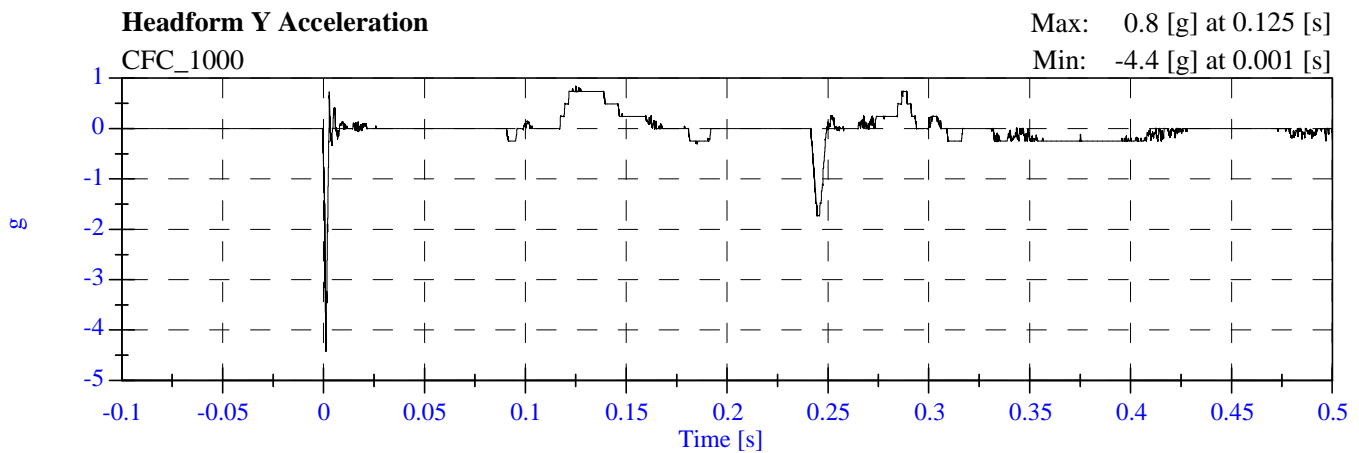
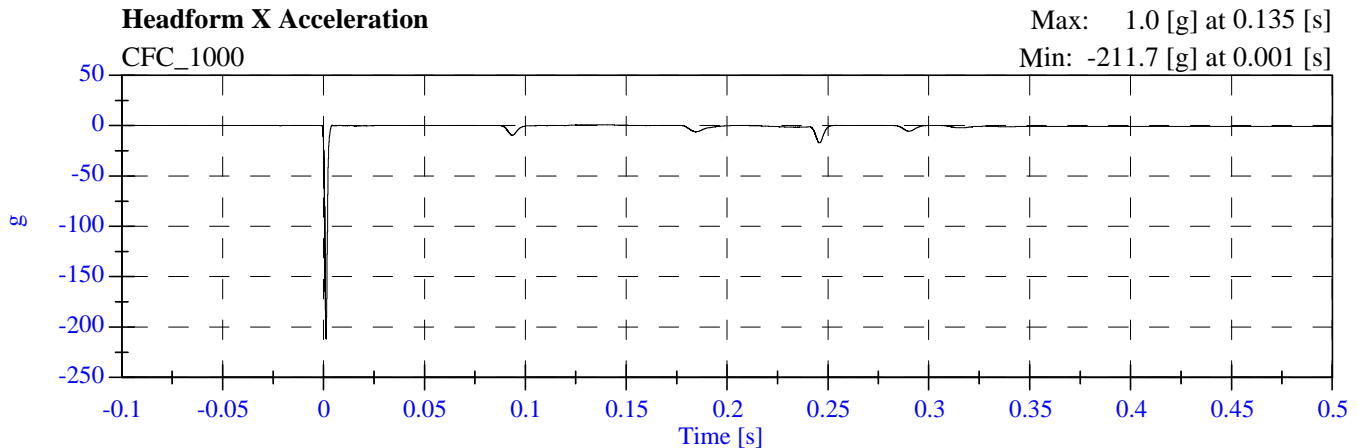
**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J28671</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J32779</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J25854</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops 0355

## C75100 - March 12, 2007



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

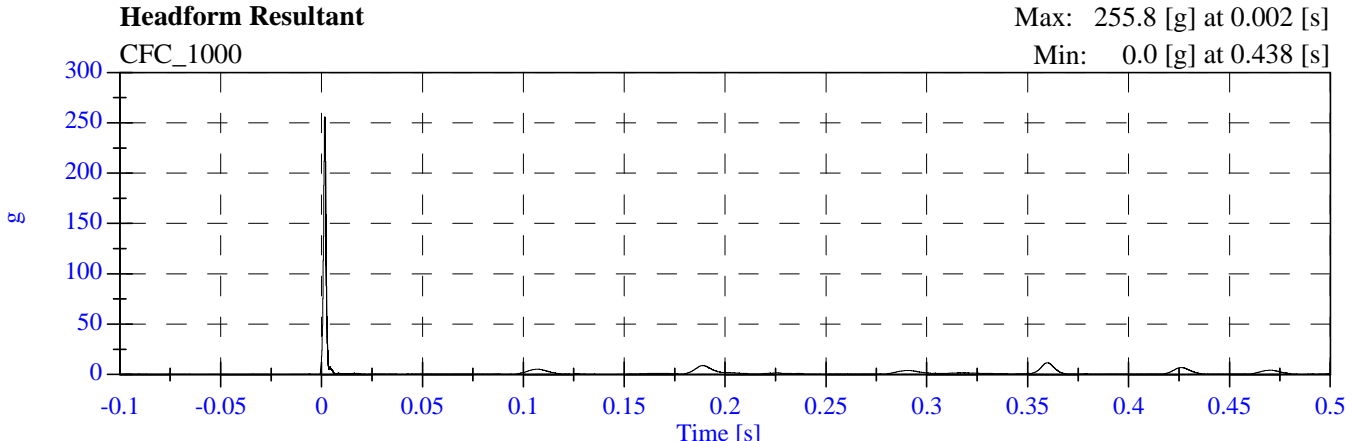
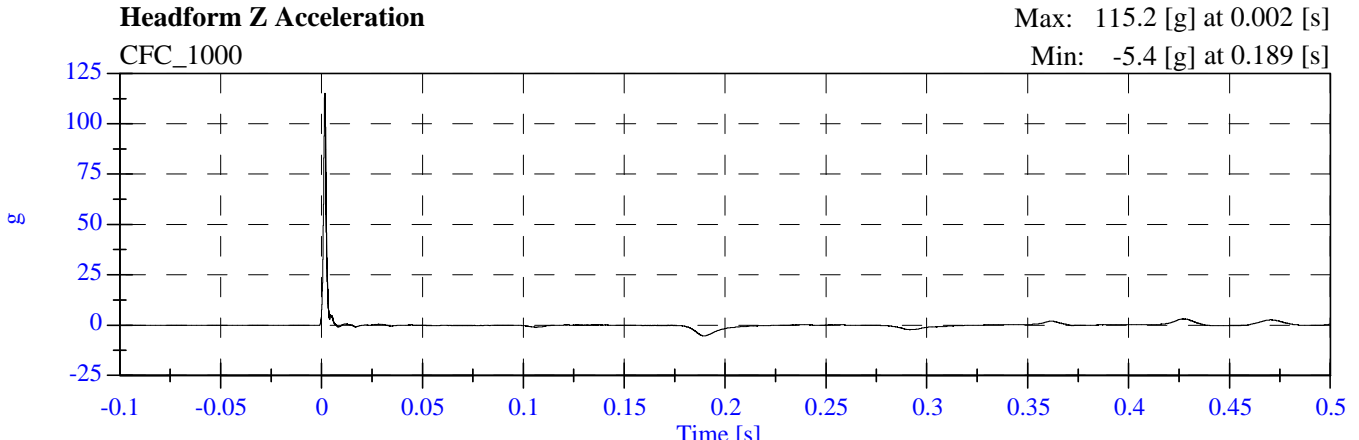
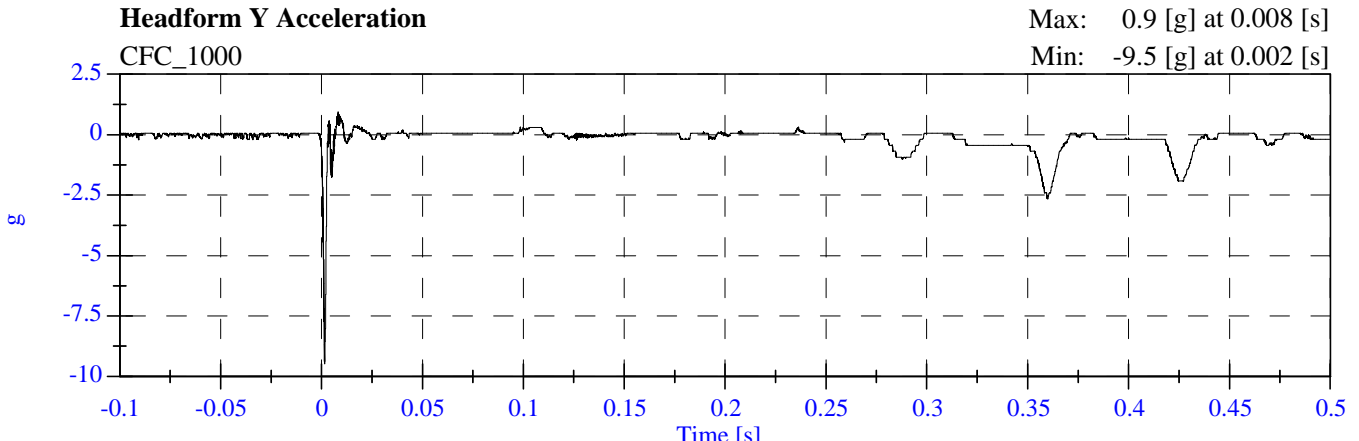
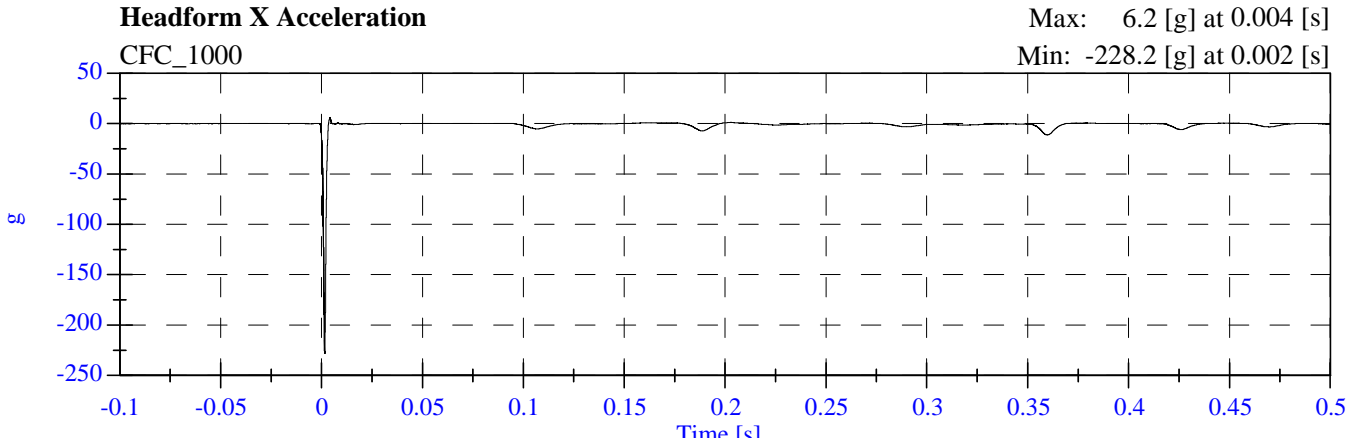
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<b>SERIAL NUMBER:</b>		1255	
<b>CALIBRATION DATE:</b>		March 12, 2007	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
TEMPERATURE	19°C to 26°C	22.2	
RELATIVE HUMIDITY	10% to 70%	16	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	255.8	
PEAK LATERAL ACCELERATION	15 Gs Maximum	9.5	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
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 1255 C75100 - March 12, 2007



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

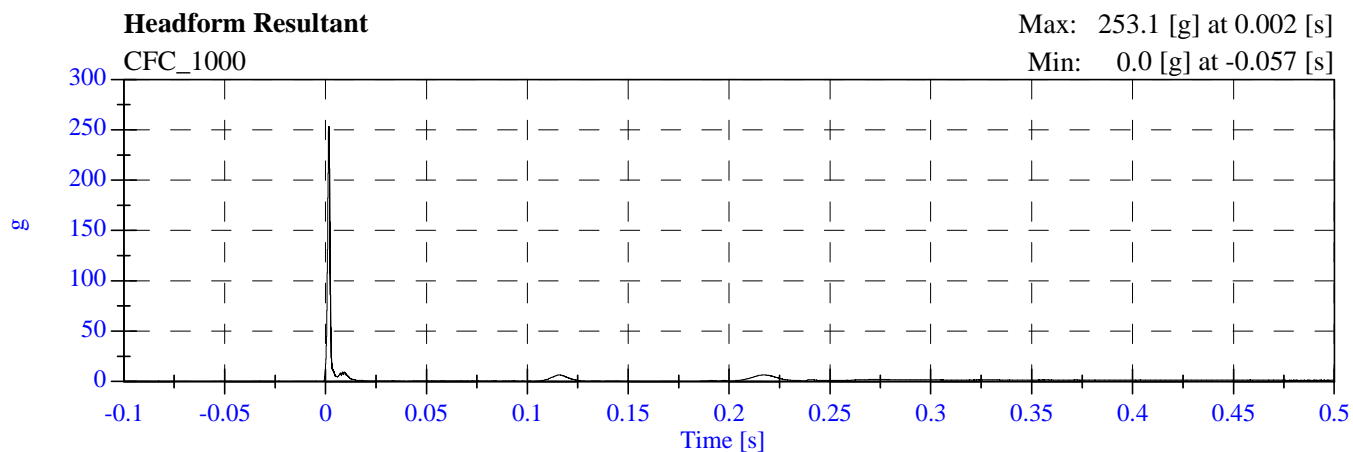
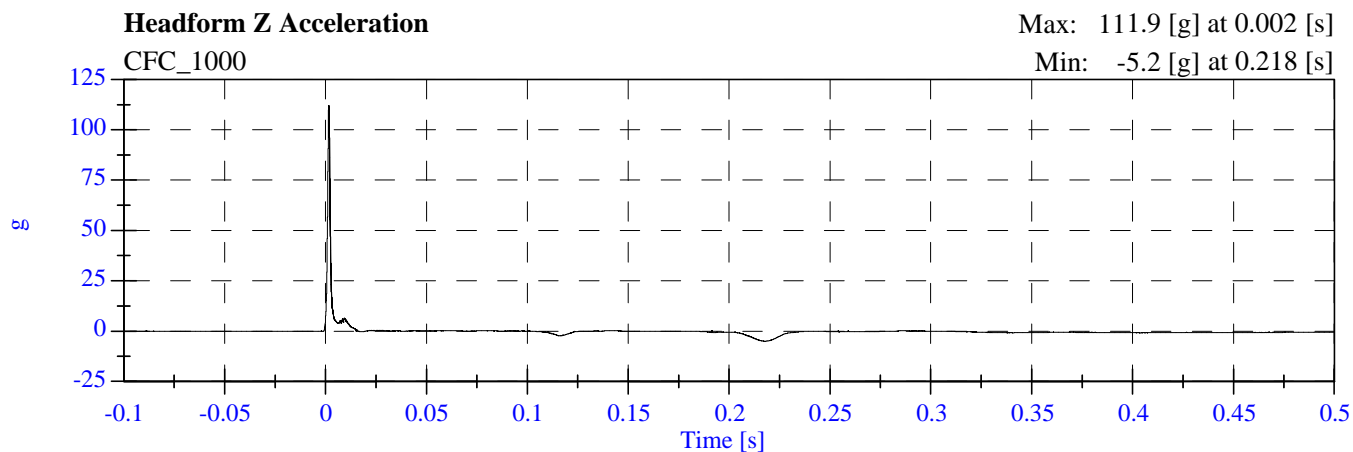
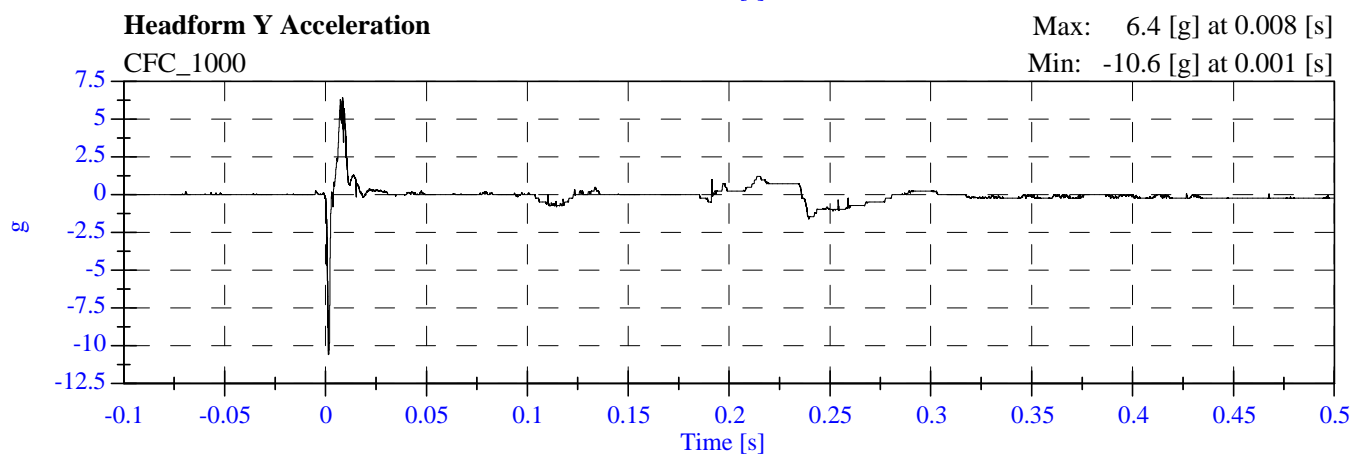
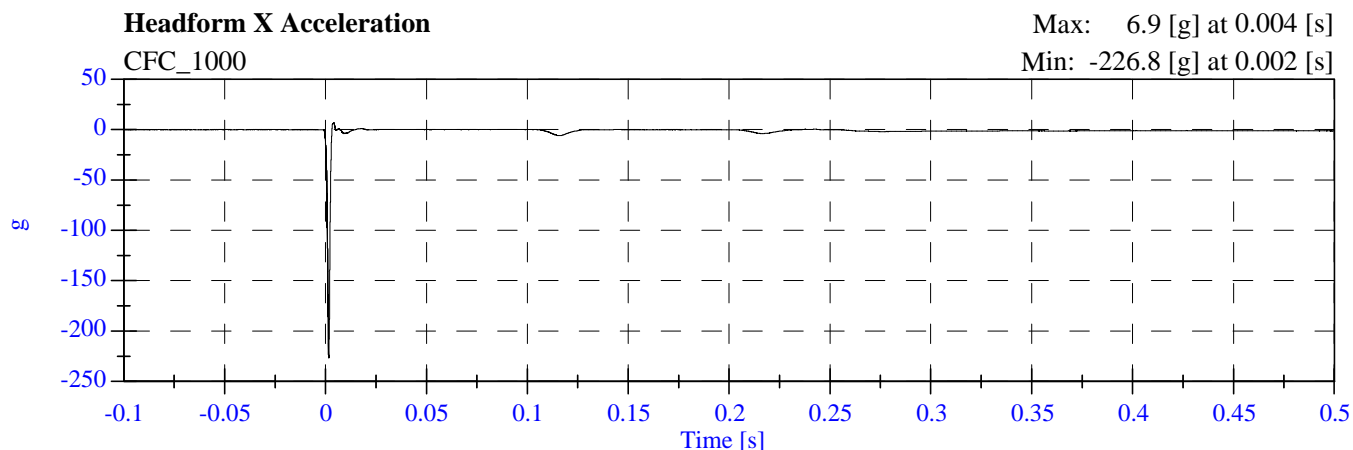
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<b>SERIAL NUMBER:</b>		<b>0642</b>	
<b>CALIBRATION DATE:</b>		<b>March 16, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>23.3</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>17</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>253.1</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>10.6</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J24876</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J33030</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J31009</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops C75100 - March 16, 2007





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

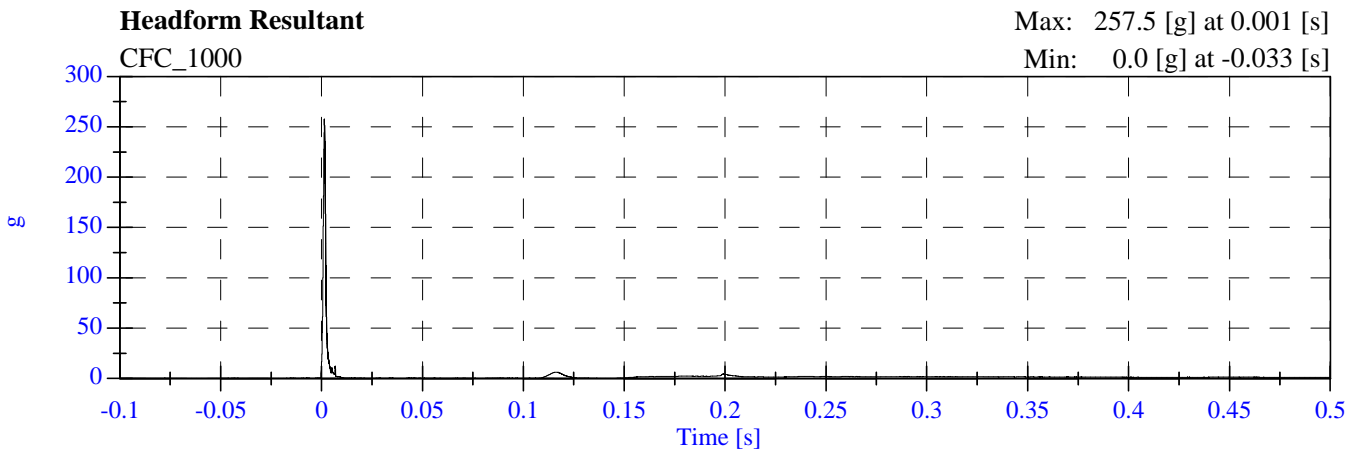
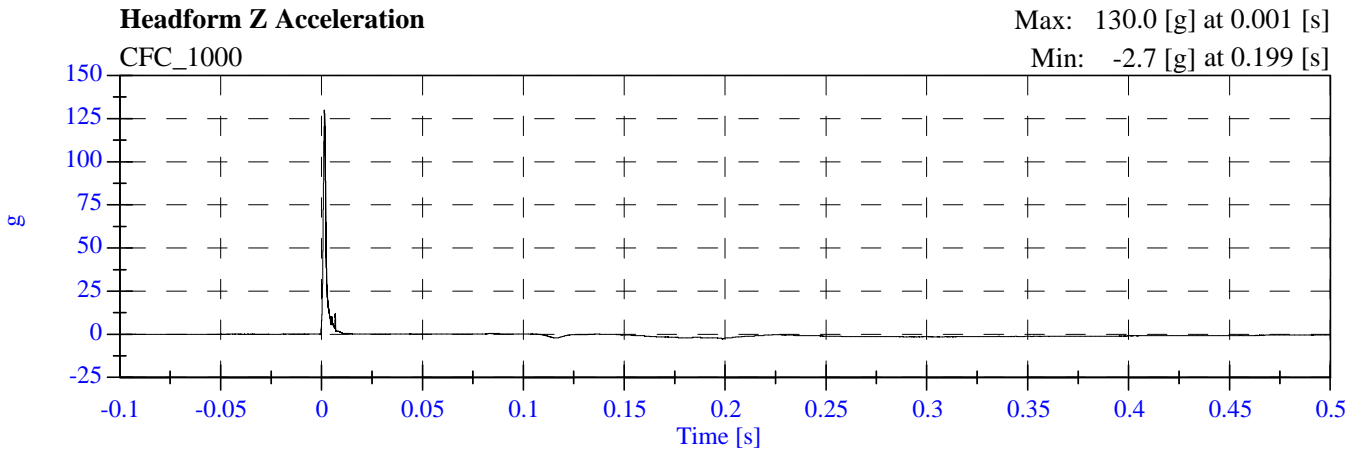
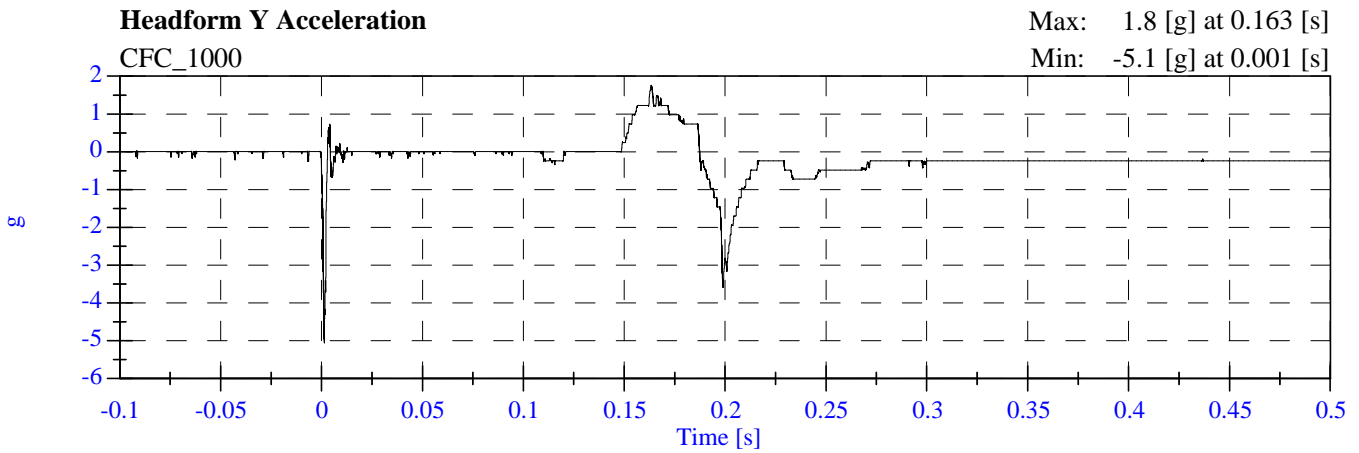
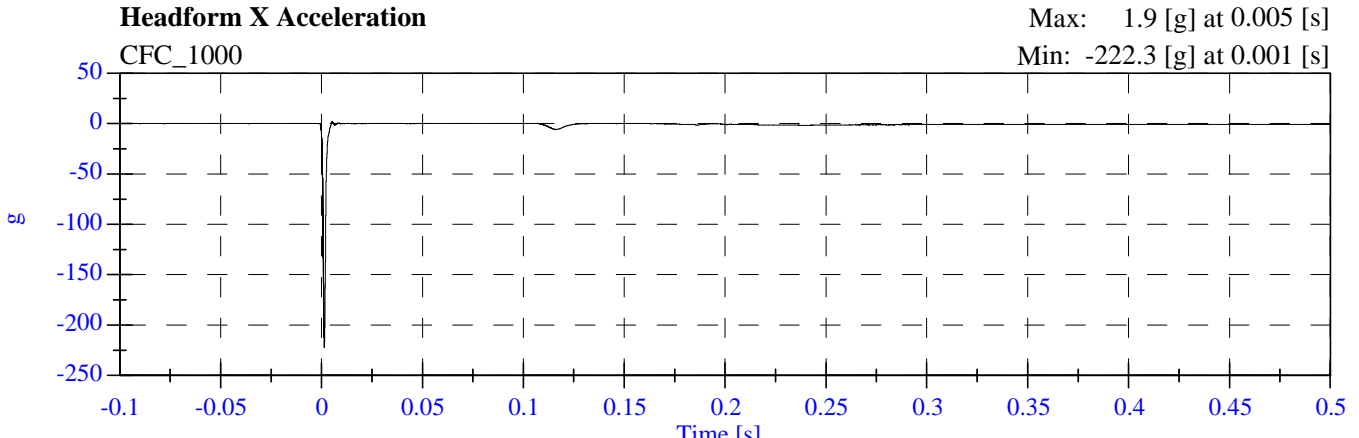
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<b>SERIAL NUMBER:</b>		<b>0062</b>	
<b>CALIBRATION DATE:</b>		<b>March 16, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>23.3</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>17</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>257.5</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>5.1</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J33127</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J33019</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J32782</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops C75100 - March 16, 2007



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

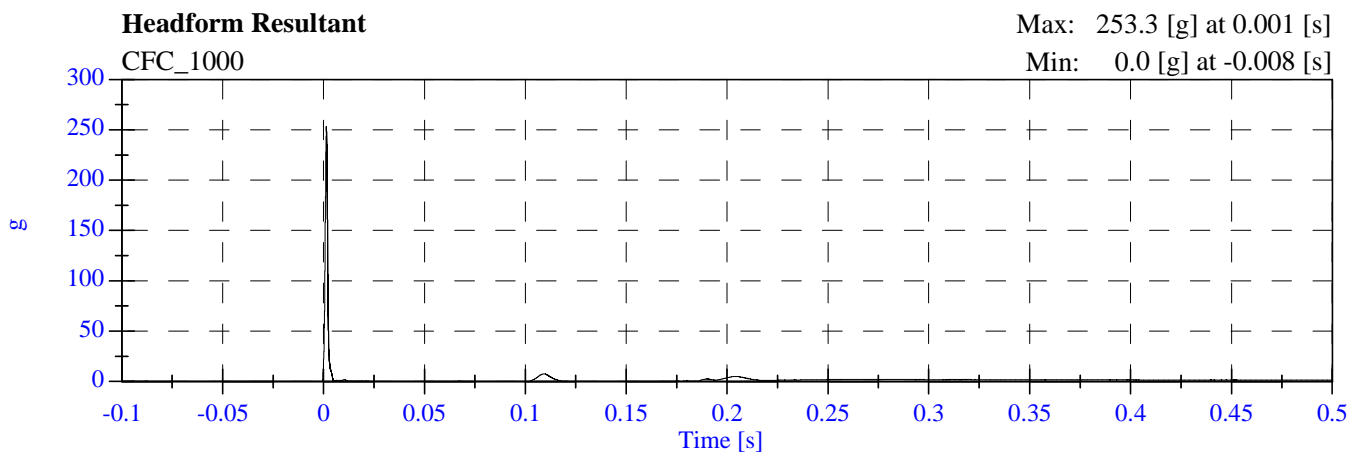
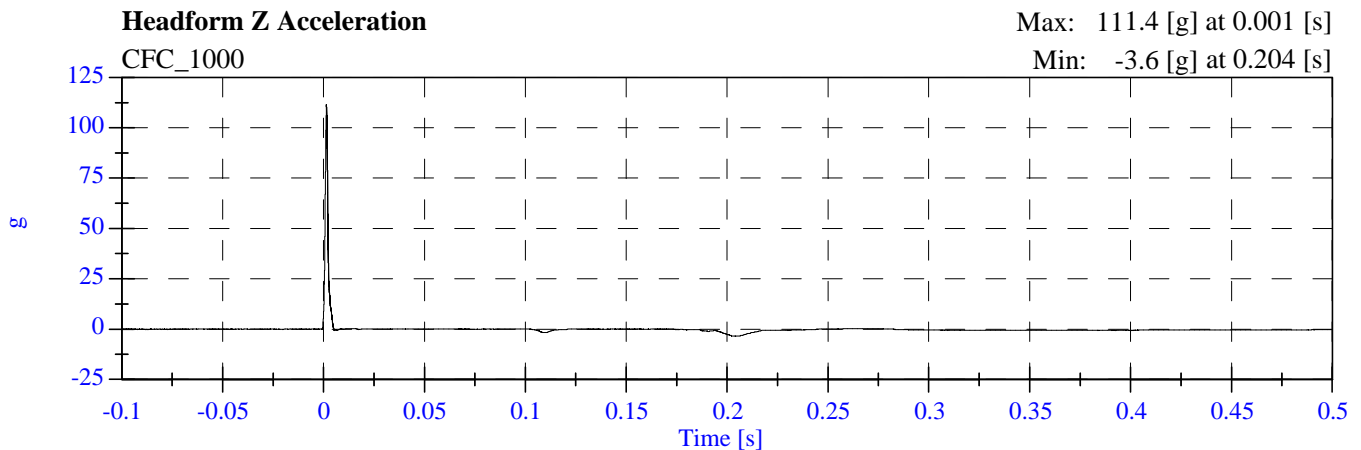
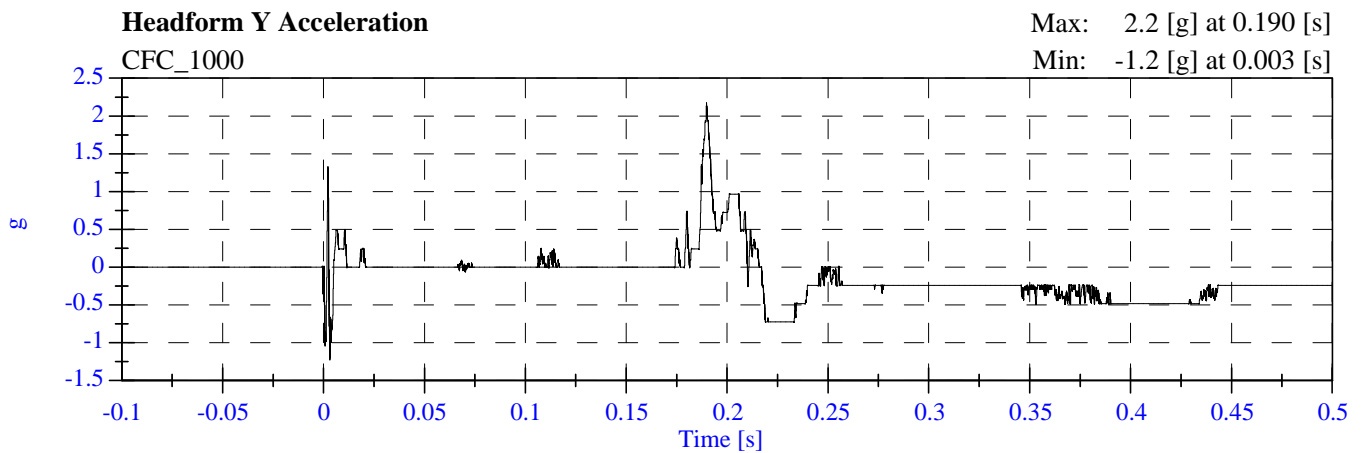
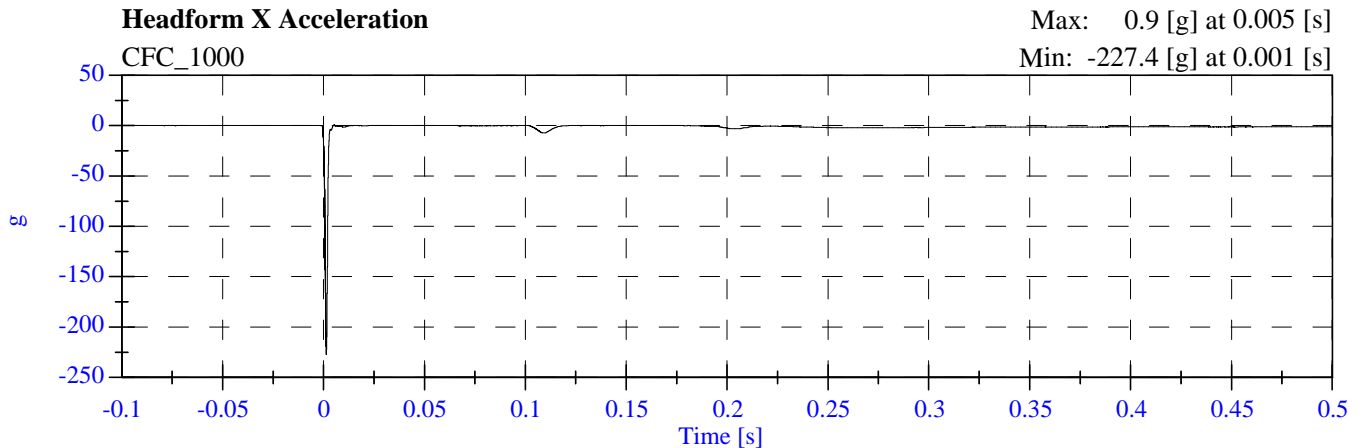
<b>MANUFACTURER:</b>		<b>FIRST TECHNOLOGY SAFETY SYSTEMS</b>	
<b>SERIAL NUMBER:</b>		<b>805</b>	
<b>CALIBRATION DATE:</b>		<b>March 16, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>23.3</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>17</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>253.3</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>2.2</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J38127</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J37980</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J37854</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops C75100 - March 16, 2007



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

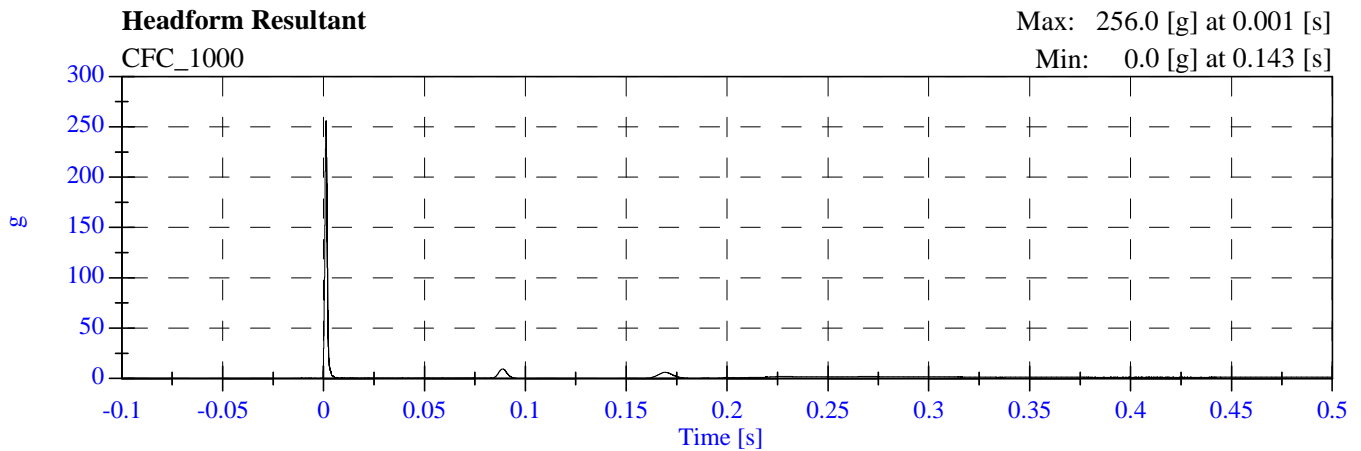
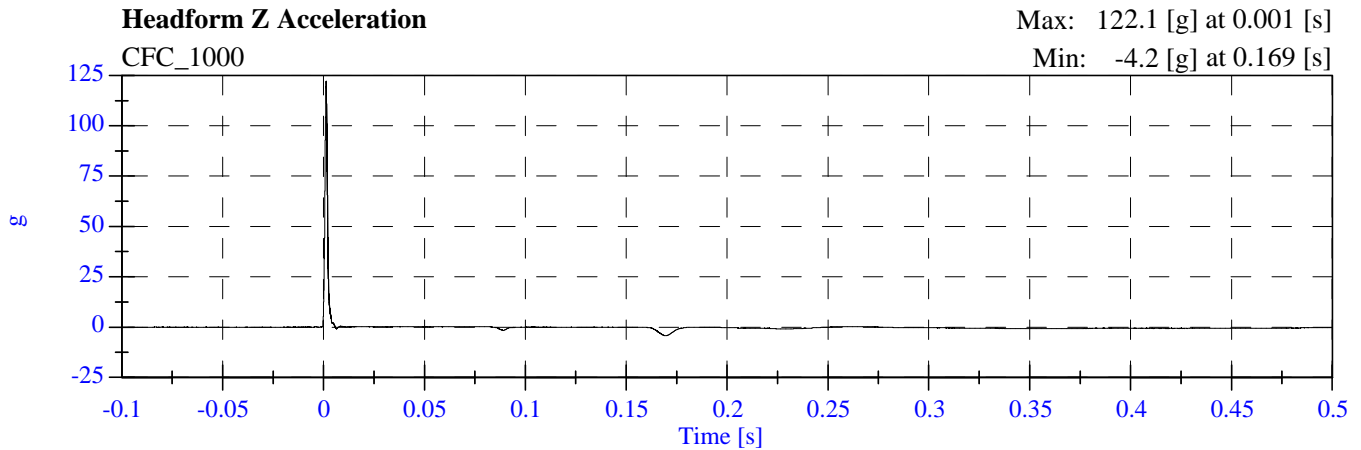
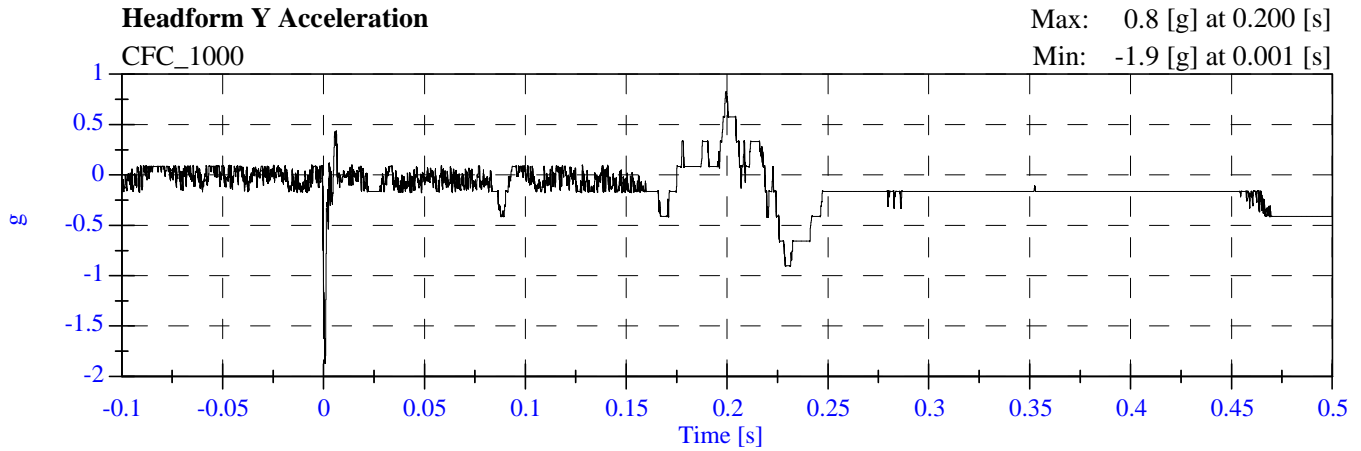
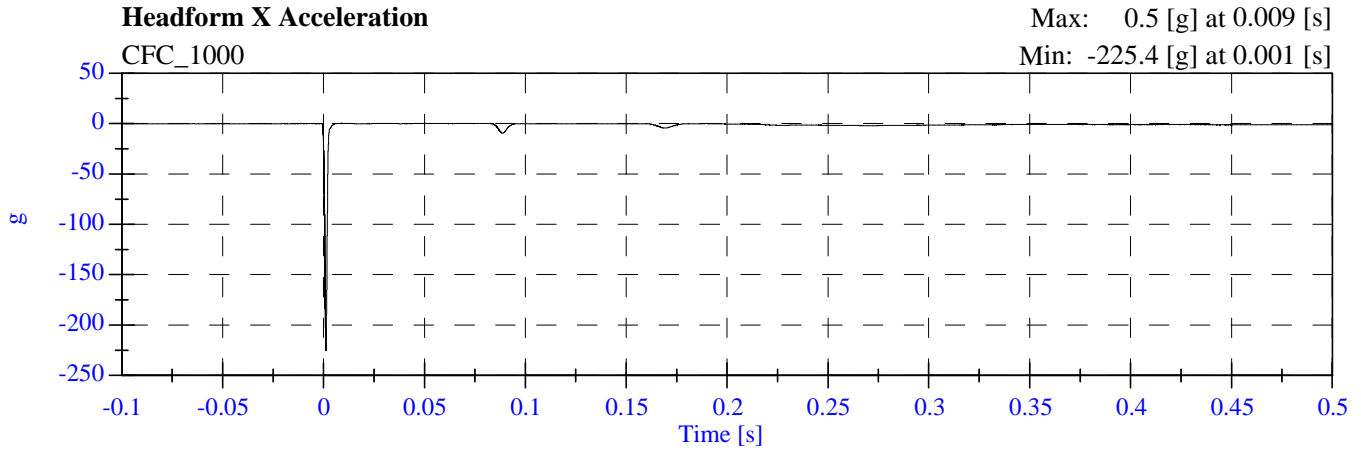
<b>MANUFACTURER:</b>		<b>DENTON ATD INC.</b>	
<b>SERIAL NUMBER:</b>		<b>0355</b>	
<b>CALIBRATION DATE:</b>		<b>March 16, 2007</b>	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	<b>19°C to 26°C</b>	<b>23.3</b>	
<b>RELATIVE HUMIDITY</b>	<b>10% to 70%</b>	<b>17</b>	
<b>PEAK RESULTANT ACCELERATION</b>	<b>225 Gs to 275 Gs</b>	<b>256.0</b>	
<b>PEAK LATERAL ACCELERATION</b>	<b>15 Gs Maximum</b>	<b>1.9</b>	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	<b>YES</b>	<b>YES</b>	

**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J28671</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J32779</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J25854</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops C75100 - March 16, 2007



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

<b>MANUFACTURER:</b>		<b>FIRST TECHNOLOGY SAFETY SYSTEMS</b>	
<b>SERIAL NUMBER:</b>		1255	
<b>CALIBRATION DATE:</b>		March 16, 2007	
<b>TEST PARAMETER</b>	<b>SPECIFICATION</b>	<b>TEST RESULTS</b>	
<b>TEMPERATURE</b>	19°C to 26°C	23.3	
<b>RELATIVE HUMIDITY</b>	10% to 70%	17	
<b>PEAK RESULTANT ACCELERATION</b>	225 Gs to 275 Gs	272.3	
<b>PEAK LATERAL ACCELERATION</b>	15 Gs Maximum	8.3	
<b>IS ACCELERATION CURVE UNIMODAL?</b>	YES	YES	

**HEAD ACCELEROMETER CALIBRATION INFORMATION**

<b>I.D. NUMBER</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>DATE OF LAST CALIBRATION</b>	<b>DATE OF NEXT CALIBRATION</b>
<b>1 - LONGITUDINAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J41006</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>2 - LATERAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J40994</b>	<b>3/12/07</b>	<b>9/13/07</b>
<b>3 - VERTICAL</b>	<b>ENDEVCO</b>	<b>7264-2000T</b>	<b>J41007</b>	<b>3/12/07</b>	<b>9/13/07</b>

**REMARKS:**

# FMVSS 201U - Headform Calibration Drops C75100 - March 16, 2007

