

REPORT NUMBER: 214-CAL-07-06

**SAFETY COMPLIANCE TESTING FOR FMVSS 214
SIDE IMPACT PROTECTION
INDICANT**

**DAIMLERCHRYSLER CORPORATION
2007 CHRYSLER SEBRING
4-DOOR SEDAN**

NHTSA NUMBER: C70305

**PREPARED BY:
CALSPAN CORPORATION
P.O. BOX 400
BUFFALO, NEW YORK 14225**



Test Date: November 30, 2006

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
MAIL CODE: NVS-220
400 SEVENTH STREET, SW, ROOM 6111
WASHINGTON, D.C. 20590**

This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, in response to Contract Number DTNH22-02-D-01114.

This publication is distributed by the U.S. Department of Transportation, National Highway Traffic Safety Administration, in the interest of information exchange. The opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof. If trade or manufacturers' names or products are mentioned it is only because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

Prepared by: _____
Lawrence Q. Valvo, Project Engineer

Date: _____

Reviewed by: _____
Michael J. Kilgallon, Program Manager
Transportation Sciences Center

Date: _____

Technical Report Documentation Page

1. Report No. 214-CAL-07-06	2. Government Accession No.	3. Recipient's Catalog No.																						
4. Title and Subtitle Final Report of FMVSS 214 Compliance Side Impact Testing of a 2007 Chrysler Sebring 4-Door Sedan NHTSA No.: C70305		5. Report Date November 30, 2006																						
		6. Performing Organization Code CAL																						
7. Author(s) Lawrence Q. Valvo, Project Engineer		8. Performing Organization Report No. 8675-F214-36																						
9. Performing Organization Name and Address Calspan Corporation Transportation Sciences Center P.O. Box 400 Buffalo, New York 14225		10. Work Unit No.																						
		11. Contract or Grant No. DTNH22-02-D-01114																						
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Office of Vehicle Safety Compliance 400 Seventh Street, SW, Room 6111 Washington, D.C. 20590		13. Type of Report and Period Covered: <i>Final Report</i> November 2006 – December 2006																						
		14. Sponsoring Agency Code NVS-220																						
15. Supplementary Notes																								
16. Abstract A 55/28 km/h 90° Moving Deformable Barrier FMVSS 214 Indicant side impact was conducted on the subject 2007 Chrysler Sebring 4-Door Sedan to obtain new car assessment and research data indicant of FMVSS No. 214D performance. The test was conducted at the Calspan Corporation Transportation Sciences Center in Buffalo, New York, on November 30, 2006. The impact velocity of the Moving Deformable Barrier (MDB) was 61.64 km/h, and the ambient temperature at the struck side (driver side) of the vehicle was 21.7°C. The target vehicle's maximum post test static crush was 243 mm at level 2. The test vehicle's occupant performance is as follows: <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: center;"><u>DRIVER</u></th> <th style="text-align: center;"><u>PASS.</u></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) Accel., g</td> <td style="text-align: center;">36.9</td> <td style="text-align: center;">48.9</td> </tr> <tr> <td>Left Lower Rib (LLR) Accel., g</td> <td style="text-align: center;">39.5</td> <td style="text-align: center;">57.2</td> </tr> <tr> <td>Lower Spine (T₁₂) Accel., g</td> <td style="text-align: center;">39.1</td> <td style="text-align: center;">90.1</td> </tr> <tr> <td>Thoracic Trauma Index (TTI)</td> <td style="text-align: center;">39</td> <td style="text-align: center;">74</td> </tr> <tr> <td>Pelvis (PEV) Accel., g</td> <td style="text-align: center;">47</td> <td style="text-align: center;">81</td> </tr> <tr> <td>HIC</td> <td style="text-align: center;">117.0</td> <td style="text-align: center;">416.7</td> </tr> </tbody> </table>					<u>DRIVER</u>	<u>PASS.</u>	Left Upper Rib (LUR) Accel., g	36.9	48.9	Left Lower Rib (LLR) Accel., g	39.5	57.2	Lower Spine (T ₁₂) Accel., g	39.1	90.1	Thoracic Trauma Index (TTI)	39	74	Pelvis (PEV) Accel., g	47	81	HIC	117.0	416.7
	<u>DRIVER</u>	<u>PASS.</u>																						
Left Upper Rib (LUR) Accel., g	36.9	48.9																						
Left Lower Rib (LLR) Accel., g	39.5	57.2																						
Lower Spine (T ₁₂) Accel., g	39.1	90.1																						
Thoracic Trauma Index (TTI)	39	74																						
Pelvis (PEV) Accel., g	47	81																						
HIC	117.0	416.7																						
The doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.																								
17. Key Words Compliance Testing Side Impact Protection FMVSS 214 Side Impact Dummy (SID)		18. Distribution Statement <u>Copies of this report are available from:</u> National Highway Traffic Safety Administration Technical Reference Division (TIS) Room 5108 (NPO-230) 400 Seventh St., S.W. Washington, D.C. 20590 Telephone No. (202) 366-4946																						
19. Security Class. (of this report) Unclassified	20. Security Class. (of this page) Unclassified	21. No. of Pages 121	22. Price																					

TABLE OF CONTENTS

<u>Section</u>		<u>Page No.</u>
1	Purpose and Test Procedure	1-1
2	Summary of FMVSS 214 Indicant Side Impact Test	2-1
<u>Data Sheet No.</u>		<u>Page No.</u>
1	General Test and Vehicle Parameter Data	2-3
2	Test Vehicle Tire Information	2-5
3	Test Vehicle Information	2-6
4	Moving Deformable Barrier (MDB) Summary of Results	2-8
5	Post Test Observations	2-9
6	Vehicle Pre-Test and Post Test Measurements	2-10
7	SID/HIII Longitudinal Clearance Dimensions	2-11
8	SID/HIII Lateral Clearance Dimensions	2-12
9	Vehicle Side Measurements	2-13
10	Vehicle Exterior Crush Profiles	2-14
11	Vehicle Damage Profile Distances	2-15
12	Deformable Barrier Honeycomb Face Static Crush	2-16
13	Vehicle Accelerometer Locations	2-17
14	MDB Accelerometer Locations	2-18
15	Vehicle Structural Measurements	2-19
16	High Speed Camera Locations and Data	2-20
17	Summary of FMVSS 301 Data	2-21
<u>Appendix</u>		<u>Page No</u>
A	Photographs	A-1
B	SID/HIII, Vehicle and MDB Response Data	B-1
C	SID/HIII Configuration and Performance Verification Data	C-1
D	Test Equipment and Calibration Information	D-1

SECTION 1
PURPOSE AND TEST PROCEDURE

PURPOSE

This side impact test is part of the FMVSS 214 Side Impact Protection Compliance Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-02-D-01114. The purpose of this indicant test was to evaluate side impact protection in a 2007 Chrysler Sebring 4-Door Sedan when tested at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001).

SECTION 2

SUMMARY OF FMVSS 214 INDICANT SIDE IMPACT TEST

This Side Impact Protection Indicant Test was performed at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001).

A model year 2007 Chrysler Sebring 4-Door Sedan was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 61.64 km/h. The specified impact velocity range is from 61.1 to 62.7 km/h. The test (target) vehicle was stationary and positioned 63° to the line of forward motion. The weight of the vehicle as tested was 1713.5 kg and the test weight of the MDB was 1362.5 kg. The test was conducted at the Calspan Corporation Transportation Sciences Center on November 30, 2006.

One (1) real-time motion picture camera and nine (9) high-speed motion picture cameras were used to document the impact event. The pre-test and post-test conditions were recorded by one (1) real-time motion picture camera. Camera locations and pertinent camera information are documented in the data sheets. Pre- and post-test photographs of the vehicle and Side Impact Dummies (SID/HIII's) can be found in Appendix A.

Two 50th percentile adult male SID/HIII's were placed in the driver (P1) and left rear passenger (P4) designated seating positions according to instructions specified in the Laboratory Test Procedure for New Car Assessment Program Side Impact Testing dated July 1997. Each SID/HIII was instrumented in the following locations:

- Left Upper Rib (LUR) uni-axial accelerometer (Y-axis primary and redundant)
- Left Lower Rib (LLR) uni-axial accelerometer (Y-axis primary and redundant)
- Lower Thoracic Spine (T12) uni-axial accelerometer (Y-axis primary and redundant)
- Pelvic (PEV) section uni-axial accelerometer (Y-axis primary and redundant)
- Head Center of Gravity (CG) tri-axial accelerometers (X, Y and Z axes primary and redundant)
- Upper Neck load cell (Fx, Fy, Fz, Mx, My, Mz)

The test vehicle was instrumented with twenty-one (21) structural accelerometers and the MDB was instrumented with five (5) accelerometers.

2.2 GENERAL COMMENTS

The test vehicle sustained a maximum static crush of 243 mm at level 2, 1350 mm rearward of the left vertical impact point. The driver and passenger SID/HIII's, Serial Nos. 905 and 906 respectively, were calibrated just prior to this test.

Test data and observations are presented in this section of the report. Appendix A contains the still photograph prints. Appendix B contains the driver and passenger SID/HIII's, vehicle, and MDB response data traces. Appendix C contains the SID/HIII's configuration and performance verification data. Appendix D contains the test equipment information.

The occupant data is summarized below:

ATD position	HIC(36)	T ₁	T ₂	TTI (G's)	Peak Pelvis (G's)
Driver	117.0	38.9	69.3	39	47
Passenger	416.7	50.1	67.3	74	81

SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver)		Left Rear (Passenger)	
	Installed	Deployed	Installed	Deployed
Front Airbag	Yes	No	NA	NA
Side Torso Airbag	Yes	Yes	NA	NA
Side Head/Torso Combination Airbag	NA	NA	NA	NA
Curtain Airbag	Yes	Yes	Yes	Yes

The test instrumentation data listed in Appendix B can be found on the NHTSA website:
www.nhtsa.dot.gov.

DATA SHEET NO. 1

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle:	2007 Chrysler Sebring	NHTSA No.:	C70305
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	November 30, 2006

TEST VEHICLE INFORMATION AND VEHICLE OPTIONS

Make	DaimlerChrysler Corporation	Driver Front Airbag	Yes
Model	Sebring	Driver Side Curtain Airbag	Yes
Body Style	4-Door Sedan	Driver Side Torso Airbag	Yes
NHTSA No.	C70305	Driver Pretensioners	Yes
VIN	1C3LC46K37N514124	Driver Load Limiters	Yes
Color	Silver	Driver Power Seats	No
Engine Disp.(L)	2.4	Rear Pass. Side Curtain Airbag	Yes
Engine Cylinders	4	Rear Pass. Side Torso Airbag	No
Engine Placement	Lateral	Rear Pass. Pretensioners	No
Transmission Type	Automatic	Rear Pass. Load Limiters	No
Transmission Speeds	4	Rear Pass. Power Seats	NA
Final Drive	Front	Tilt Wheel	Yes
Air Conditioning	Yes	Anti-lock Brakes	Yes
Power Steering	Yes	Traction Control	No
Power Brakes	Yes	Power Windows	Yes
Delivery Date	11/10/2006	Power Door Locks	Yes
Odometer Reading (km)	32	Automatic Door Locks (ADL)	Yes
Dealer	West Herr Chrysler Jeep LLC, 3599 Southwestern Blvd., Orchard Park, NY 14127-0644	Owner's Manual Details Instructions on Disabling ADLs	No

DATA FROM CERTIFICATION LABEL

Manufactured By	DaimlerChrysler Corporation	GVWR (kg)	2019
		GAWR Front (kg)	1180
Date of Manufacture	10/06	GAWR Rear (kg)	1007

VEHICLE CAPACITY DATA

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bench		
Number Of Occupants	2	3		5
Capacity Wt. (VCW) (kg)				392.0
Cargo Wt. (RCLW) (kg)				51.8

DATA SHEET NO. 1 (continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW) (Axle)			Fully Loaded (Axle)			As Tested (ATW) (Axle)		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	468.0	301.0		520.0	393.0		514.0	390.0	
Right	kg	442.0	294.0		450.0	360.0		445.5	364.0	
Ratio	%	60.5	39.5		56.3	43.7		56.0	44.0	
Totals	kg	910.0	595.0	1505.0	970.0	753.0	1723.0	959.5	754.0	1713.5

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1505.0
Weight of 2 P572E ATDs (81.2 kg each)	kg	162.4
Rated Cargo/Luggage Weight (RCLW)	kg	51.8
Calculated Vehicle Target Weight (TVTW)	kg	1719.2

* Actual As Tested Weight (ATW) will be TVTW -4.5/-9.1 kg

Weight of Ballast (including instrumentation package and cameras): 46.1 kg

TEST VEHICLE ATTITUDES

	Units	LF	RF	LR	RR
As Delivered	mm	760	757	754	750
Fully Loaded	mm	745	720	748	723
As Tested	mm	748	721	749	723

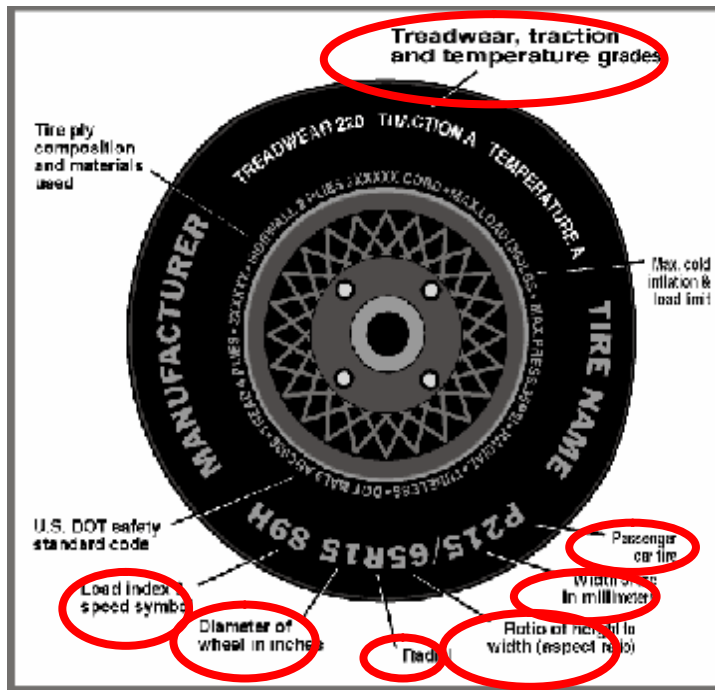
TEST VEHICLE VERTICAL IMPACT LINE AND CG

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2770
Target Impact Point Aft of Front Axle	mm	445
Actual Impact Point Aft of Front Axle	mm	449
As Tested CG (aft of front axle)	mm	1219

DATA SHEET NO. 2

TEST VEHICLE TIRE INFORMATION

Test Vehicle:	2007 Chrysler Sebring	NHTSA No.	C70305
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	November 30, 2006



DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	300	300
Cold / Test Pressure (kPa)	220	220
Recommended Tire Size	P215/65R16	P215/65R16
Tire Size on Vehicle	P215/65R16	P215/65R16
Tire Manufacturer	Firestone	Firestone
Tire Name	FR690	FR690
Tire Type	P	P
Tire Width (mm)	215	215
Ratio of Height to Width (aspect ratio)	65	65
Radial	R	R
Wheel Diameter	16	16
Load Index & Speed Symbol	96T	96T
Treadwear	440	440
Traction Grade	A	A
Temperature Grade	B	B

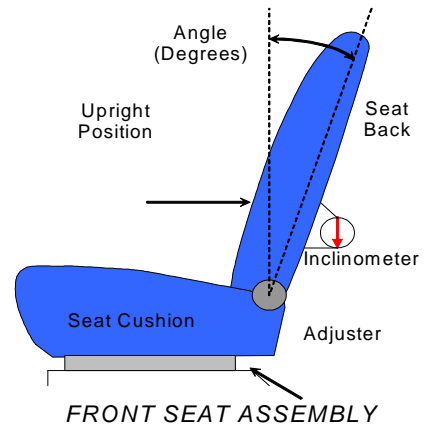
DATA SHEET NO. 3

TEST VEHICLE INFORMATION

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006

NORMAL DESIGN RIDING POSITION

The driver and passenger seat back is positioned to the manufacturer's designated angle.

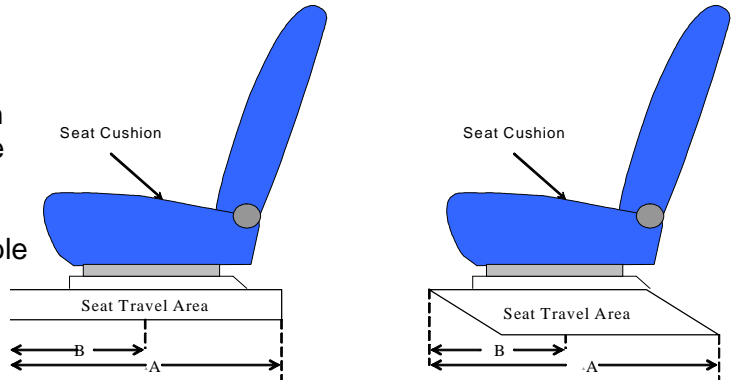


SEAT BACK POSITION

	Driver Seat	Rear Seat
Test Detent (forward-most detent defined as 0)	Detent 7	Not Adjustable
Angle (deg. from forward-most locking position)	14.0	Not Adjustable
Alternative Measurements to Verify Test Position	Outboard seat back frame 14.0° back from vertical	NA

SEAT FORE/AFT POSITIONS

The total seat travel was measured from forward most position to rearmost position irrespective of vertical seat height in those positions. The seat was set at the longitudinal mid position with vertical adjustment at the lowest position obtainable for both the driver and passenger.



SEAT FORE/AFT POSITION

	Driver Seat	Rear Seat
Total Fore/Aft Travel (A) (mm)	286	NA
Test Position (B) (mm)	243	NA
Test Detent (forward-most detent defined as 0)	13	NA
Total Number of Detents (including 0)	35	NA

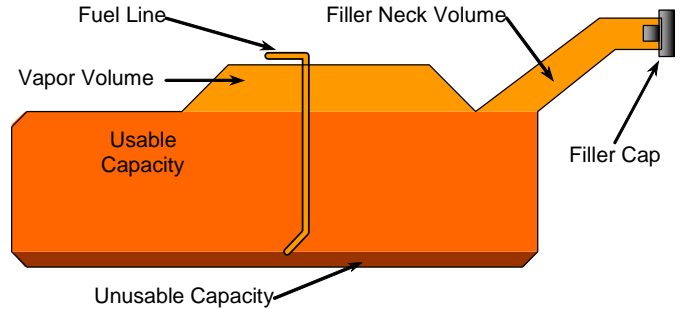
DATA SHEET NO. 3 (CONTINUED)

TEST VEHICLE INFORMATION

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006

FUEL SYSTEM INFORMATION

The test vehicle is equipped with an electric fuel pump. The fuel pump operates for approximately two seconds after the ignition is placed in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender. The standard fuel tank occupies the area under the rear seat.



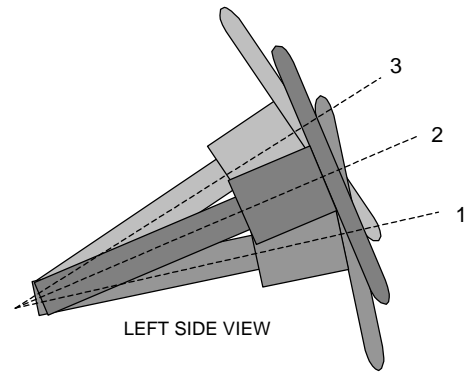
VEHICLE FUEL TANK ASSEMBLY

FUEL TANK CAPACITY

	Liters
Usable Capacity of "Standard" Fuel Tank	64.0
Usable Capacity of "Optional" Fuel Tank	NA
Stoddard Used For Test (92%-94% of Fuel Tank Usable Capacity)	59.1

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes when moved through its full range of motion. An aluminum plate is placed across the rim of the steering wheel, an inclinometer is placed on the plate and the angle is measured.



STEERING COLUMN ASSEMBLY

STEERING COLUMN POSITION

	Fore/Aft Position (mm)	Tilt (degrees)	Tilt (detent)
Lowermost Position No. 1	115	17.3	NA
Geometric Center Position No. 2 *	137.5	20.1	NA
Uppermost Position No. 3	160	22.9	NA

DATA SHEET NO. 4**MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS**

Test Vehicle:	2007 Chrysler Sebring	NHTSA No.	C70305
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	November 30, 2006

MDB SPECIFICATIONS

Measurement Description	Length (mm)
Overall Width of Framework Carriage	1250
Overall Length Including Honeycomb Face	4120
Wheel base of Framework Carriage	2590
Tread of Framework Carriage (front & rear)	1875
C.G. Location aft of Front Axle	1104

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	409.5	281.5	
Right	kg	372.5	299.0	
Ratio	%	57.4	42.6	
Totals	kg	782.0	580.5	1362.5

MDB SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	61.64
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	61.64

POST TEST OBSERVATIONS**MDB LEFT EDGE IMPACT POINT DATA**

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	4 mm rearward
Vertical Offset	mm	+/-20	4 mm below

DATA SHEET NO. 5

POST TEST OBSERVATIONS

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat SID/HIII	Rear Seat SID/HIII
Dummy Type / Serial No.	SID/HIII / 905	SID/HIII / 906
Head Contact	Top of head to roof liner; Side of head to side curtain airbag	Top of head to roof liner; Side of head to side curtain airbag
Upper Torso Contact	Arm to side torso airbag	Arm to door trim above arm rest
Lower Torso Contact	Pelvis to door trim below arm rest	Pelvis to door trim below arm rest
Left Knee Contact	Left knee to door trim	Left knee to door trim
Right Knee Contact	Right knee to left knee	Right knee to left knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Locked/Unlocked Doors	Doors were locked	Doors were locked
Left Side Door Opening	Door unlatched during the impact; Door remained closed	Door remained closed and latched
Right Side Door Opening	Door remained closed and latched; Door opened without tools	Door remained closed and latched; Door opened without tools
Seat Movement	0	0
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	No separation
Sill Separation	None
Windshield Damage	None
Window Damage	Left front and left rear door windows shattered during the impact
Other Notable Effects	None

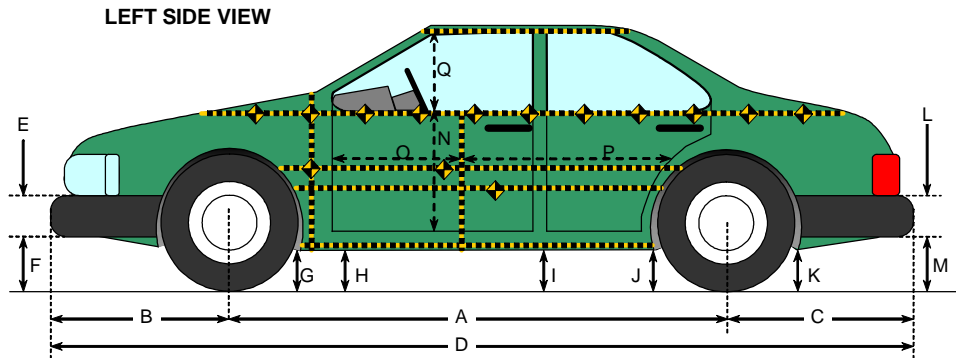
SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver)		Left Rear (Passenger)	
	Installed	Deployed	Installed	Deployed
Front Airbag	Yes	No	NA	NA
Side Torso Airbag	Yes	Yes	NA	NA
Side Head/Torso Combination Airbag	NA	NA	NA	NA
Curtain Airbag	Yes	Yes	Yes	Yes

DATA SHEET NO. 6

VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006



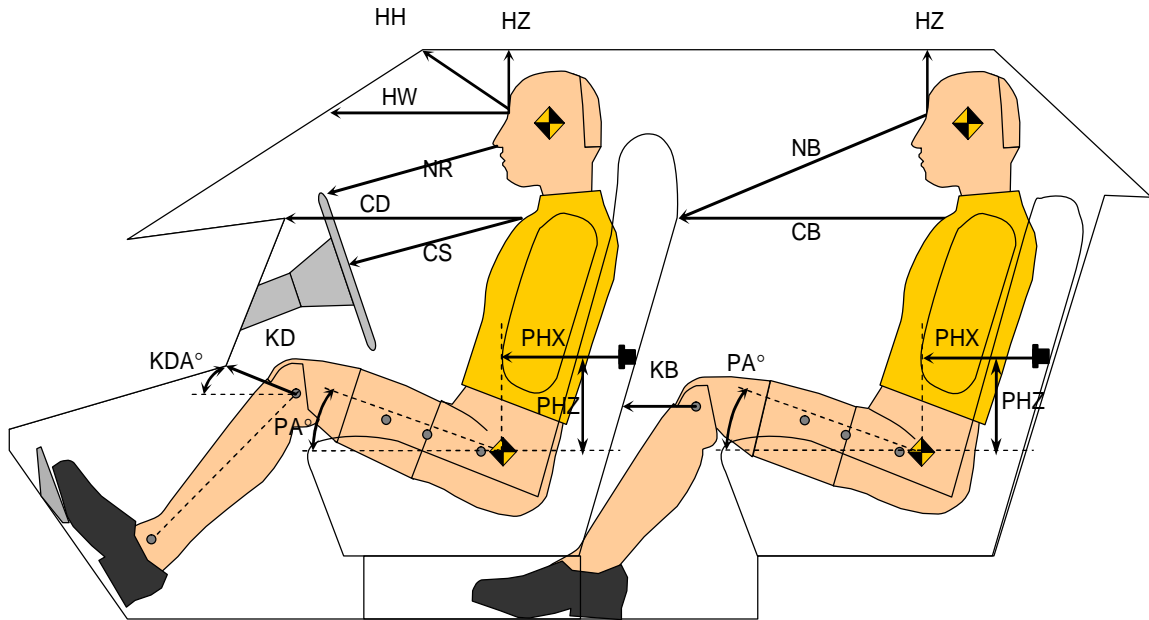
All Measurements in mm

Code	Measurement Description	Pre-Test (delivered)	Pre-Test (as tested)	Post-Test (as tested)	Difference
A	Wheelbase	2771	2770	2757	13
B	Front Axle to FSOV	1005	1008	1015	-7
C	Rear Axle to RSOV	1067	1065	1063	2
D	Total Length at Centerline	4843	4843	4835	8
E	Front Bumper Thickness	347	347	347	0
F	Front Bumper Bottom to Ground	233	230	218	12
G	Sill Height at Front Wheel Well	157	139	168	-29
H	Sill Height at Front Door Leading Edge	206	188	195	-7
I	Sill Height at "B" Pillar	213	185	215	-30
J1	Sill Height at Rear Wheel Well	174	142	144	-2
J2	Pinch Weld Height at Rear Wheel Well	209	176	165	11
K	Sill Height Aft of Rear Wheel Well	247	208	208	0
L	Rear Bumper Thickness	434	434	434	0
M	Rear Bumper Bottom to Ground	301	263	264	-1
N	Sill Height to Window Bottom Sill	712	712	641	71
O	Front Door Leading Edge to Impact CL	799	799	752	47
P	Rear Door Trailing Edge to Impact CL	1274	1274	1166	108
Q	Front Window Opening	413	413	407	6
R	Right Side Length	4701	4701	4701	0
S	Left Side Length	4704	4704	4687	17
T	Vehicle Width at "B" Post	1801	1801	1693	108

DATA SHEET NO. 7

SID/HIII LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle:	2007 Chrysler Sebring	NHTSA No.	C70305
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	November 30, 2006

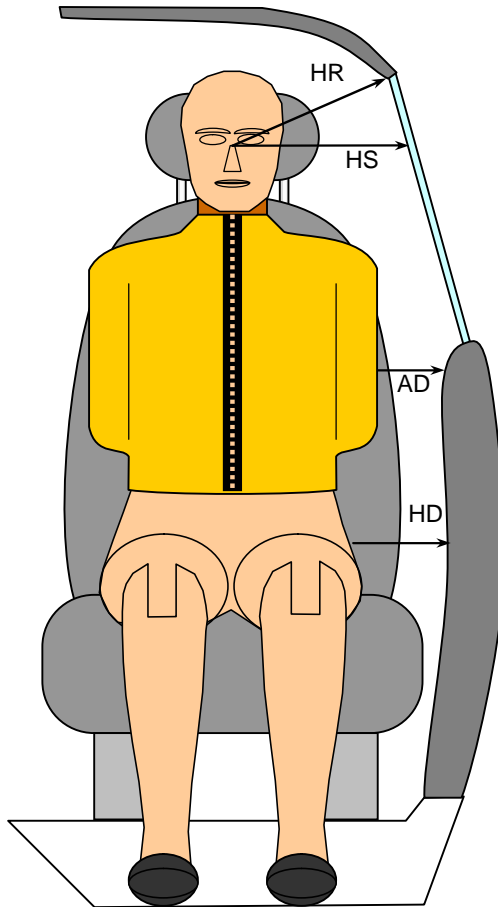


Driver Code	Pass. Code	Measurement Description	Driver S/N 905		Passenger S/N 906	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	450			
HW		Head to Windshield	705			
HZ	HZ	Head to Roof	188		186	
NR	NB	Nose to Rim/Nose to Seatback	411		650	
CD	CB	Chest to Dash or Seatback	542		595	
CS		Chest to Steering Wheel	297			
KDL	KBL	Left Knee to Dash or Seatback	152	30.0	238	18.0
KDR	KBR	Right Knee to Dash or Seatback	143	37.0	247	18.0
PA	PA	Pelvic Angle		24.2		24.8
PHX	PHX	H-Point to Striker (X-Axis)	229		189	
PHZ	PHZ	H-Point to Striker (Z-Axis)	173		191	

DATA SHEET NO. 8

SID/HIII LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006



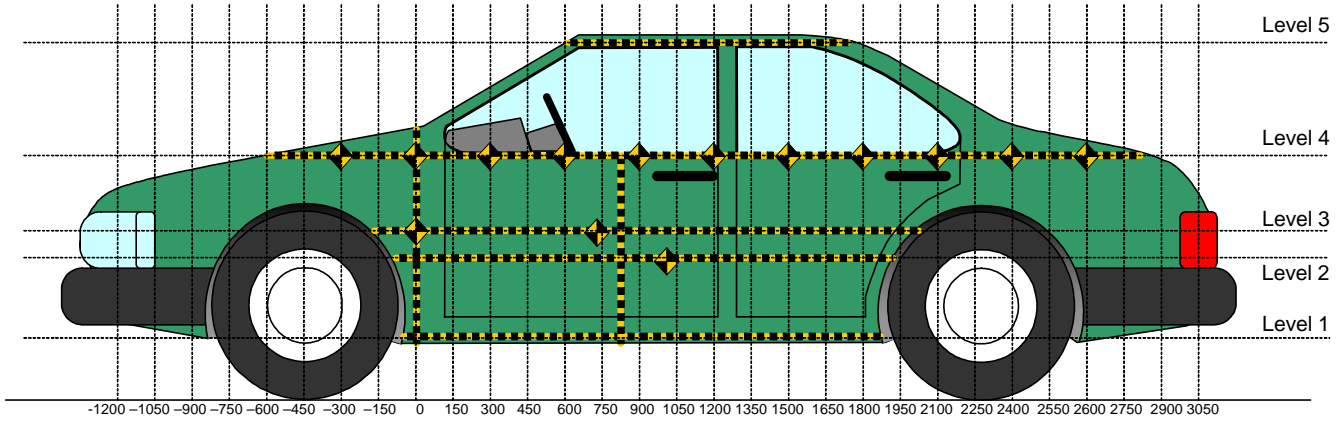
FRONT VIEW OF DUMMY

Code	Measurement Description	Units	Driver S/N 905	Passenger S/N 906
HR	Head to Side Header	mm	195	225
HS	Head to Side Window	mm	345	386
AD ₁	Arm to Door (at upper rib level)	mm	122	142
AD ₂	Arm to Door (at lower rib level)	mm	129	139
HD	H-Point to Door	mm	138	190

DATA SHEET NO. 9

VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006



All Measurements Shown in mm

LEFT SIDE VIEW

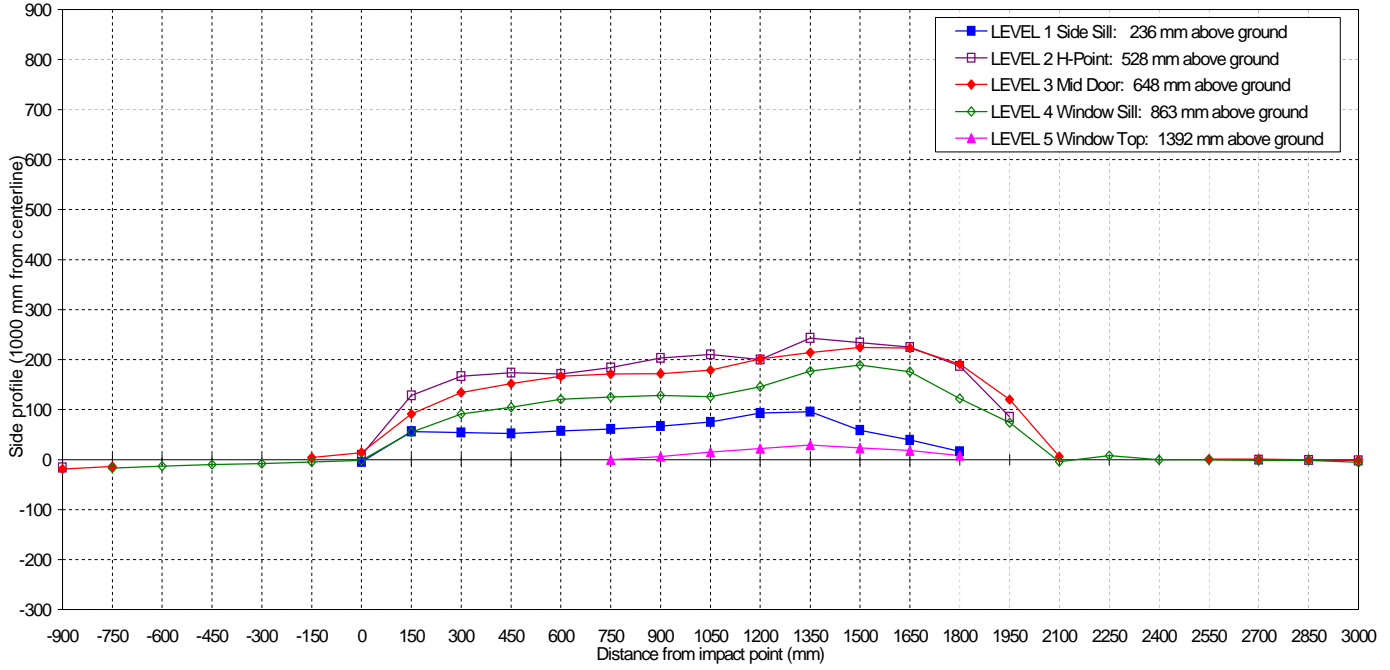
Measurements are taken with vehicle in the as tested condition.
 Measurements along the vertical 750 mm.
 All measurements below in mm.

Level	Measurement Description	Maximum Exterior Static Crush	Height Above Ground	Distance From Impact
1	Sill Top	96	236	1350
2	Occupant H-Point	243	528	1350
3	Mid Door	224	648	1500
4	Window Sill	189	863	1500
5	Window	29	1392	1350
	Maximum Penetration	243		

DATA SHEET NO. 10

VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006



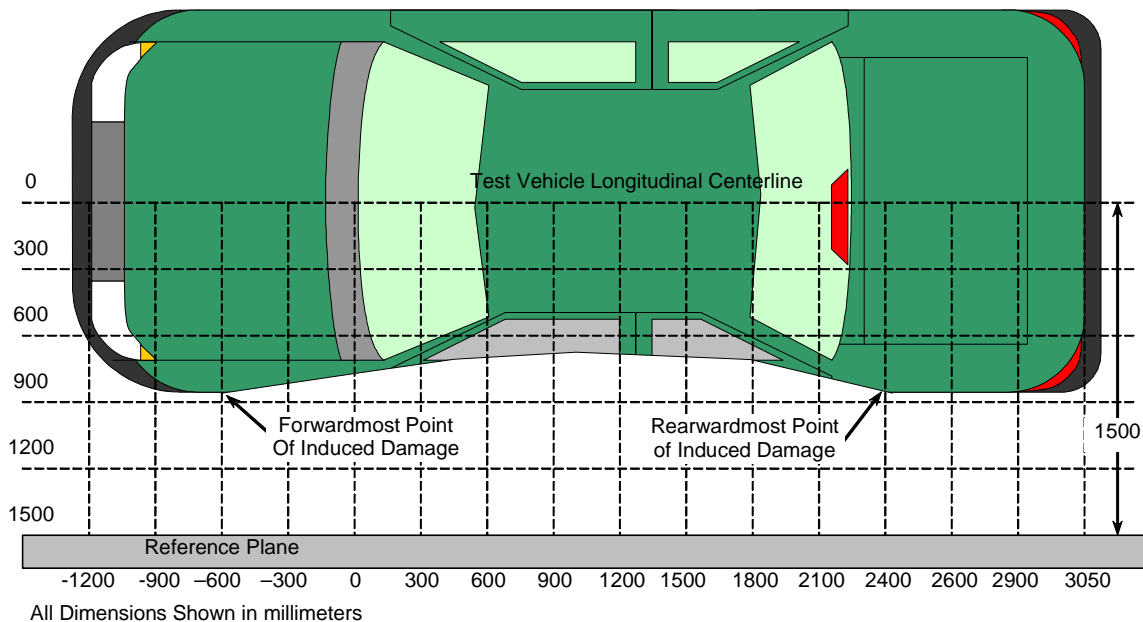
NOTE: All dimensions are in millimeters with a tolerance of ±3 mm

		DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT																												
LEVEL	HEIGHT (mm)		-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	
LEVEL 1 SIDE SILL	236	PRE	--	--	--	--	--	--	120	138	137	137	135	136	137	139	141	145	148	152	140	--	--	--	--	--	--	--	--	
		POST	--	--	--	--	--	--	115	194	191	189	192	197	204	214	234	241	207	191	156	--	--	--	--	--	--	--	--	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	-5	56	54	52	57	61	67	75	93	96	59	39	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LEVEL 2 H POINT	528	PRE	122	--	--	--	--	--	84	103	104	103	102	101	100	101	102	104	108	111	109	91	--	--	--	--	102	138	172	
		POST	106	--	--	--	--	--	93	231	271	277	273	285	303	311	302	347	342	336	296	176	--	--	--	--	102	137	170	
		CRUSH	-16	N/A	N/A	N/A	N/A	N/A	9	128	167	174	171	184	203	210	200	243	234	225	187	85	N/A	N/A	N/A	N/A	0	-1	-2	
LEVEL 3 MID DOOR	648	PRE	134	98	--	--	--	78	88	101	99	97	96	95	95	95	96	99	102	105	106	93	82	--	--	89	111	144	179	
		POST	115	84	--	--	--	82	102	192	233	249	263	266	267	274	297	313	326	328	297	213	88	--	--	90	112	144	178	
		CRUSH	-19	-14	N/A	N/A	N/A	4	14	91	134	152	167	171	172	179	201	214	224	223	191	120	6	N/A	N/A	1	1	0	-1	
LEVEL 4 WINDOW SILL	863	PRE	--	204	177	160	145	136	127	122	116	111	106	104	103	101	102	103	105	108	113	121	128	133	139	148	161	179	216	
		POST	--	187	164	150	137	131	125	177	207	216	227	229	231	227	248	280	294	284	235	195	124	141	139	148	159	177	210	
		CRUSH	N/A	-17	-13	-10	-8	-5	-2	55	91	105	121	125	128	126	146	177	189	176	122	74	-4	8	0	0	-2	-2	-6	
LEVEL 5 WINDOW TOP	1392	PRE	--	--	--	--	--	--	--	--	--	--	--	413	377	374	373	373	376	382	397	--	--	--	--	--	--	--	--	
		POST	--	--	--	--	--	--	--	--	--	--	--	--	413	383	389	395	402	399	400	405	--	--	--	--	--	--	--	--
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	6	15	22	29	23	18	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle:	2007 Chrysler Sebring	NHTSA No.:	C70305
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	November 30, 2006



TOP VIEW

DAMAGE PROFILE DISTANCES

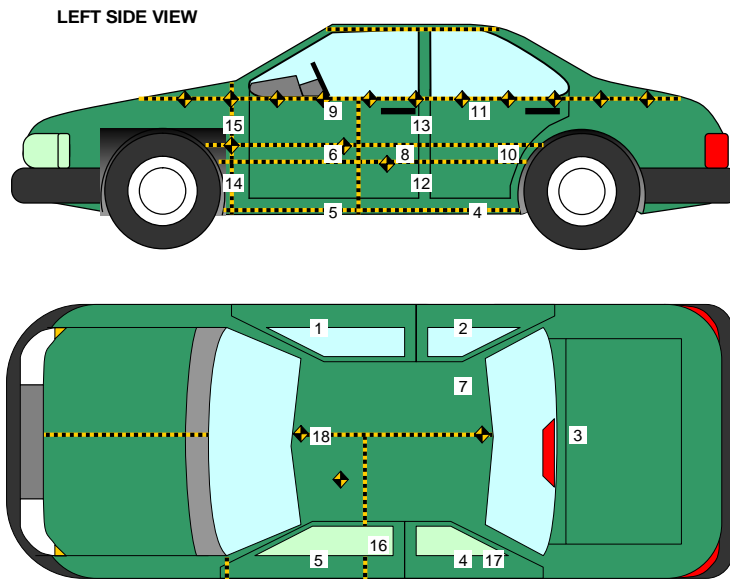
DPD	Distance from Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1 (LR)	2100	863	82	88	6
2	1650	528	111	336	225
3	1200	648	96	297	201
4	750	528	101	285	184
5	300	528	104	271	167
6 (LF)	-150	648	78	82	4

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

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATIONS

Test Vehicle:	2007 Chrysler Sebring	NHTSA No.:	C70305
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	November 30, 2006



Loc. No.	Accelerometer Location	Measurements (mm)		
		X	Y	Z
1	Right Sill at Front Seat	2979	656	-327
2	Right Sill at Rear Seat	2093	657	-304
3	Rear Floorpan Above Axle	1248	72	-518
4	Left Sill at Rear Door	2084	-657	-291
5	Left Sill at Front Door	3003	-650	-314
6	Left Front Door C/L**	-	-	-
7	Rear Occupant Compartment	2089	352	-195
8	Left Front Door Mid-Rear**	-	-	-
9	Left Front Door Upper C/L**	-	-	-
10	Left Rear Door Mid-Rear**	-	-	-
11	Left Rear Door Upper C/L**	-	-	-
12	Left Lower B-Post	2286	-690	-410
13	Left Middle B-Post	2187	-689	-933
14	Left Lower A-Post	3290	-610	-514
15	Left Middle A-Post	3184	-678	-1050
16	Front Seat Track	2342	-557	-298
17	Rear Seat Track or Structure	1195	-533	-573
18	Vehicle CG	2609	40	-474

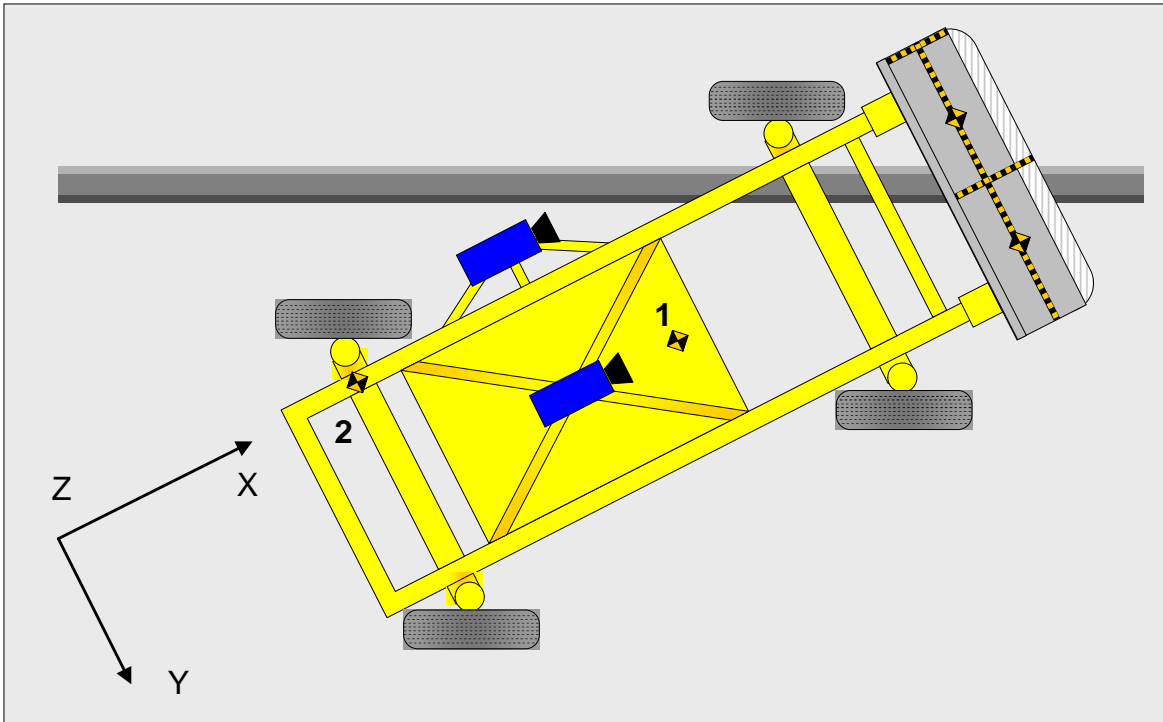
Reference Points X - Test Vehicle Rear Bumper (+ forward)
 Y - Test Vehicle Centerline (+ to right)
 Z - Ground Plane (+ down)

** Accelerometer was not requested by the COTR.

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATIONS

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006



Loc. No.	Accelerometer Location	Measurements (mm)		
		X	Y	Z
1	MDB CG	1859	0	-330
2	MDB Rear	386	-660	-660

Reference Points X - MDB Rear Bumper (+ forward)
 Y - MDB Centerline (+ to right)
 Z - Ground Plane (+ down)

DATA SHEET NO. 15**VEHICLE STRUCTURAL MEASUREMENTS**

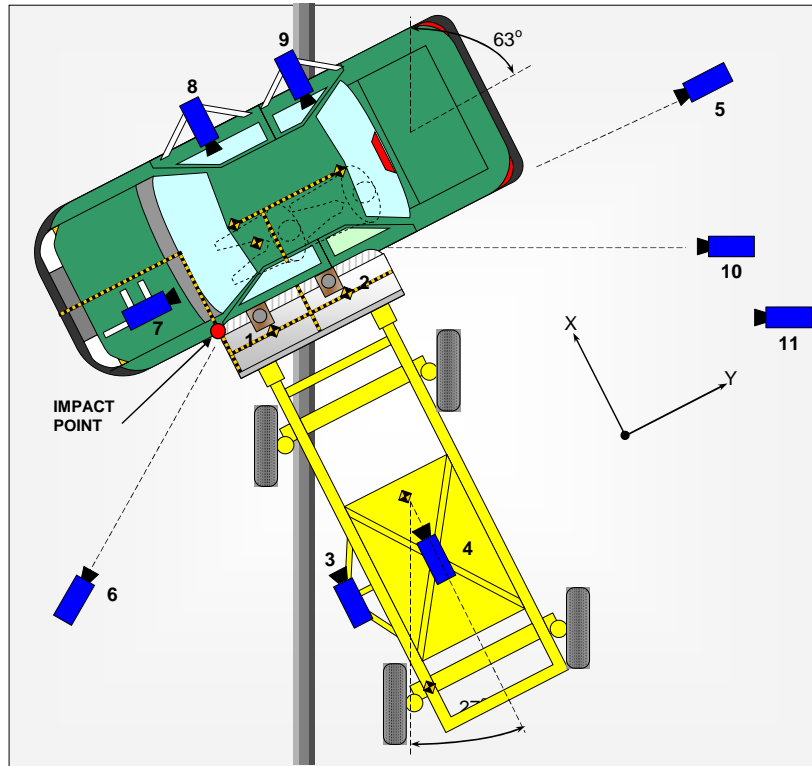
Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006

	Elements	Pre-Test (mm)
1	Total Length	4843
2	Total Width	1801
3	Bumper Top Height	506
4	Bumper Bottom Height	398
5	Longitudinal Member Top Height	608
6	Distance between Longitudinal Members	1057
7	Longitudinal Member Width	69
8	Engine Top Height	864
9	Engine Bottom Height	185
10	Engine and gearbox width	509
11	Front bumper-engine distance	584
12	Front shock absorber fixing height	907
13	Bonnet leading edge height	748
14	Front shock absorber fixing width	1125
15	Front bumper – front axle distance	1005
16	Front axle – a pillar distance	482
17	A-pillar – B-pillar distance	1160
18	B-Pillar – rear axle distance	1128
19	B-pillar – C-pillar distance	996
20	Roof sill bottom height	1322
21	Roof sill top height	1407
22	Floor sill bottom height	287
23	Floor sill top height	368

DATA SHEET NO. 16

HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006



No.	Camera View	Location (mm)			Angle (deg)	Lens (mm)	Film Speed (fps)
		X	Y	Z			
1	Overhead Close-up	72	812	-4880	-90.0	8	1000
2	Overhead Overall	195	855	-4880	-90.0	28	1000
3	MDB Onboard, Impact Point Close-up	-1470	0	-847	0.0	13	1000
4	MDB Onboard, Centerline of Impact	-1140	838	-1587	-17.0	7.5	1000
5	Right Side, Ground Level, Overall	0	10310	-1153	-3.8	50	1000
6	Left Side, Ground Level, Overall	-1934	-1691	-1054	-7.8	28	1000
7	Vehicle Onboard Front SID/HIII, Front	449	-646	-1306	-6.1	25	1000
8	Vehicle Onboard Front SID/HIII, Side	1822	749	-1059	-5.5	12.5	1000
9	Vehicle Onboard Rear SID/HIII, Side	1856	1741	-1098	-10.8	12.5	1000
11	Real Time Coverage						30

Reference Points
 X - Impact Line
 Y - MDB Left Edge Impact Point
 Z - Ground Plane

**DATA SHEET NO. 17
SUMMARY OF FMVSS 301 DATA**

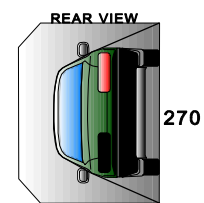
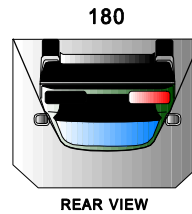
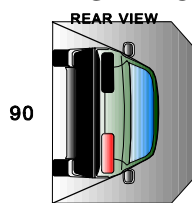
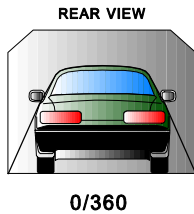
Test Vehicle: 2007 Chrysler Sebring NHTSA No. C70305
 Test Program: FMVSS 214 Indicant Side Impact Test Date: November 30, 2006

FUEL SYSTEM INTEGRITY POST IMPACT DATA

Time Interval	FMVSS 301 Maximum Allowable Spillage	Spillage (g)
Impact Until Motion Ceases	28 g	0
First Five Minutes Following Impact	142 g	0
Next 25 Minutes	28 g / 1 minute	0

Spillage Location(s)	None
----------------------	------

STATIC ROLLOVER DATA



Rollover Stage	Rotation Time (spec. 1 -3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
	minutes	seconds	minutes	seconds	minutes	seconds	minutes	seconds	minutes	seconds	minutes	seconds
0° - 90°	1	9	5	6	9	7	1	9	6	9	7	0
90° - 180°	1	7	5	6	7	7	1	7	6	7	7	0
180°-270°	1	9	5	6	9	7	1	9	6	9	7	0
270°-360°	1	10	5	6	10	7	1	10	6	10	7	0

Rollover Stage	Spillage (g)			
	First 5 min. from onset of rotation	6 th min.	7 th min.	8 th min. (if required)
0° - 90°	0	0	0	-
90° - 180°	0	0	0	-
180°-270°	0	0	0	-
270°-360°	0	0	0	-
FMVSS 301 Maximum Allowable (for each 90° stage)	142	28	28	28

Rollover Stage	Spillage Location(s)
0° - 90°	None
90° - 180°	None
180°-270°	None
270°-360°	None

APPENDIX A
PHOTOGRAPHS

TABLE OF PHOTOGRAPHS

FIGURE	TITLE	PAGE
A-1	As Received Left Front $\frac{3}{4}$ View	A-4
A-2	As Received Right Rear $\frac{3}{4}$ View	A-4
A-3	Vehicle Certification Label	A-5
A-4	Vehicle Tire Placard Label	A-5
A-5	Pre-Test Front View	A-6
A-6	Post-Test Front View	A-6
A-7	Pre-Test Left Front $\frac{3}{4}$ View	A-7
A-8	Post-Test Left Front $\frac{3}{4}$ View	A-7
A-9	Pre-Test Left Side View	A-8
A-10	Post-Test Left Side View	A-8
A-11	Pre-Test Left Rear $\frac{3}{4}$ View	A-9
A-12	Post-Test Left Rear $\frac{3}{4}$ View	A-9
A-13	Pre-Test Rear View	A-10
A-14	Post-Test Rear View	A-10
A-15	Pre-Test Right Rear $\frac{3}{4}$ View	A-11
A-16	Post-Test Right Rear $\frac{3}{4}$ View	A-11
A-17	Pre-Test Right Side View	A-12
A-18	Post-Test Right Side View	A-12
A-19	Pre-Test Right Front $\frac{3}{4}$ View	A-13
A-20	Post-Test Right Front $\frac{3}{4}$ View	A-13
A-21	Pre-Test Frontal View of MDB Impactor Face	A-14
A-22	Post-Test Frontal View of MDB Impactor Face	A-14
A-23	Pre-Test Left Side View of MDB Impactor Face	A-15
A-24	Post-Test Left Side View of MDB Impactor Face	A-15
A-25	Pre-Test Right Side View of MDB Impactor Face	A-16
A-26	Post-Test Right Side View of MDB Impactor Face	A-16
A-27	Pre-Test Top View of MDB Impactor Face	A-17
A-28	Post-Test Top View of MDB Impactor Face	A-17
A-29	Pre-Test Left Side View of Aligned MDB and Vehicle	A-18
A-30	Pre-Test Right Side View of Aligned MDB and Vehicle	A-18
A-31	Pre-Test Overhead View of Aligned MDB and Vehicle	A-19
A-32	Post-Test Overhead View of MDB and Vehicle	A-19
A-33	Pre-Test Close-Up View of Impact Point Target	A-20
A-34	Post-Test Close-Up View of Impact Point Target	A-20

TABLE OF PHOTOGRAPHS (continued)

FIGURE	TITLE	PAGE
A-35	Pre-Test Right Occupant Compartment View of Driver	A-21
A-36	Post-Test Right Occupant Compartment View of Driver	A-21
A-37	Pre-Test Right Occupant Compartment View of Passenger	A-22
A-38	Post-Test Right Occupant Compartment View of Passenger	A-22
A-39	Pre-Test Left Occupant Compartment View of Driver	A-23
A-40	Post-Test Left Occupant Compartment View of Driver	A-23
A-41	Pre-Test Left Occupant Compartment View of Passenger	A-24
A-42	Post-Test Left Occupant Compartment View of Passenger	A-24
A-43	Pre-Test Left Front Interior Trim	A-25
A-44	Post-Test Left Front Interior Trim	A-25
A-45	Pre-Test Left Rear Interior Trim	A-26
A-46	Post-Test Left Rear Interior Trim	A-26
A-47	Pre-Test Left Front $\frac{3}{4}$ View of Left Side Doors	A-27
A-48	Post-Test Left Front $\frac{3}{4}$ View of Left Side Doors	A-27
A-49	Pre-Test Left Rear $\frac{3}{4}$ View of Left Side Doors	A-28
A-50	Post-Test Left Rear $\frac{3}{4}$ View of Left Side Doors	A-28
A-51	Rollover 90 Degrees	A-29
A-52	Rollover 180 Degrees	A-29
A-53	Rollover 270 Degrees	A-30
A-54	Rollover 360 Degrees	A-30
A-55	Impact Photo	A-31



Figure A-1: As Received Left Front $\frac{3}{4}$ View



Figure A-2: As Received Right Rear $\frac{3}{4}$ View

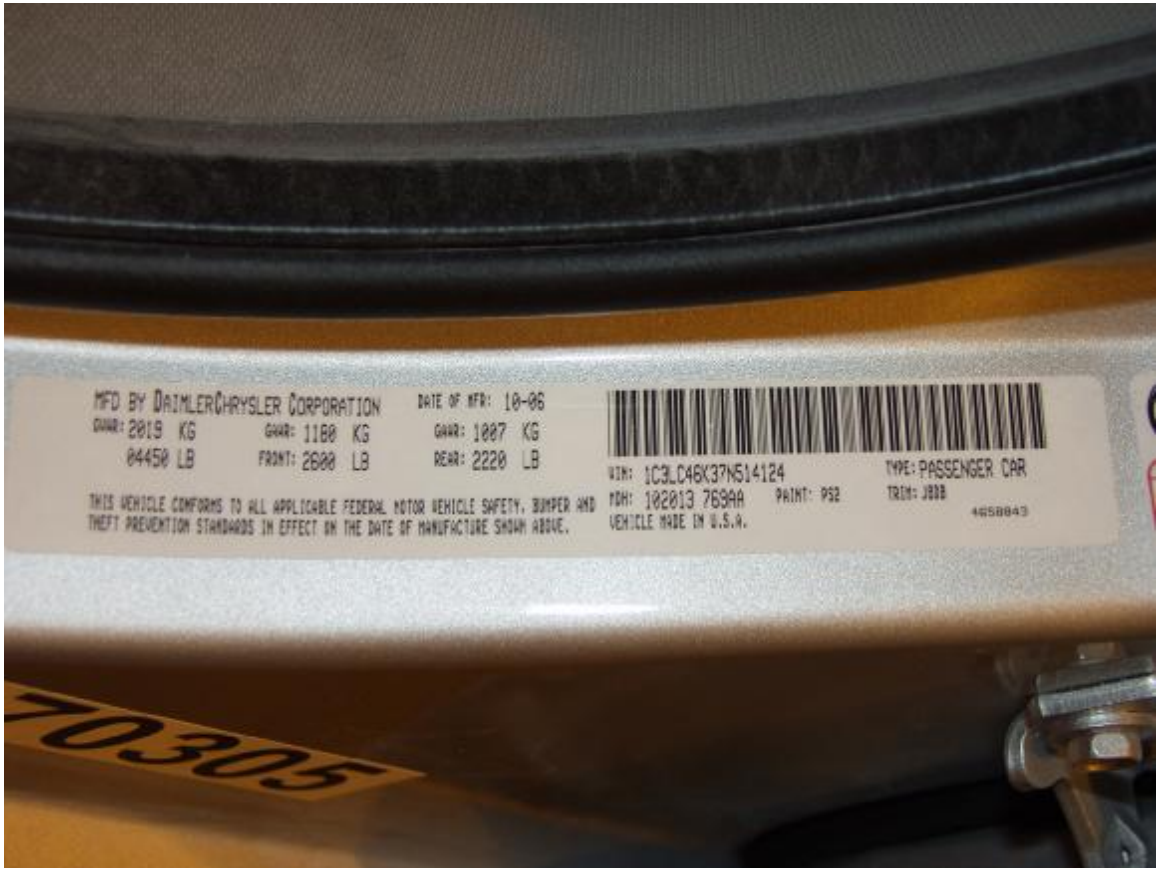


Figure A-3: Vehicle Certification Label



Figure A-4: Vehicle Tire Placard Label



Figure A-5: Pre-Test Front View



Figure A-6: Post-Test Front View



Figure A-7: Pre-Test Left Front $\frac{3}{4}$ View



Figure A-8: Post-Test Left Front $\frac{3}{4}$ View



Figure A-9: Pre-Test Left Side View



Figure A-10: Post-Test Left Side View



Figure A-11: Pre-Test Left Rear $\frac{3}{4}$ View



Figure A-12: Post-Test Left Rear $\frac{3}{4}$ View



Figure A-13: Pre-Test Rear View



Figure A-14: Post-Test Rear View



Figure A-15: Pre-Test Right Rear $\frac{3}{4}$ View



Figure A-16: Post-Test Right Rear $\frac{3}{4}$ View



Figure A-17: Pre-Test Right Side View



Figure A-18: Post-Test Right Side View



Figure A-19: Pre-Test Right Front 3/4 View



Figure A-20: Post-Test Right Front 3/4 View

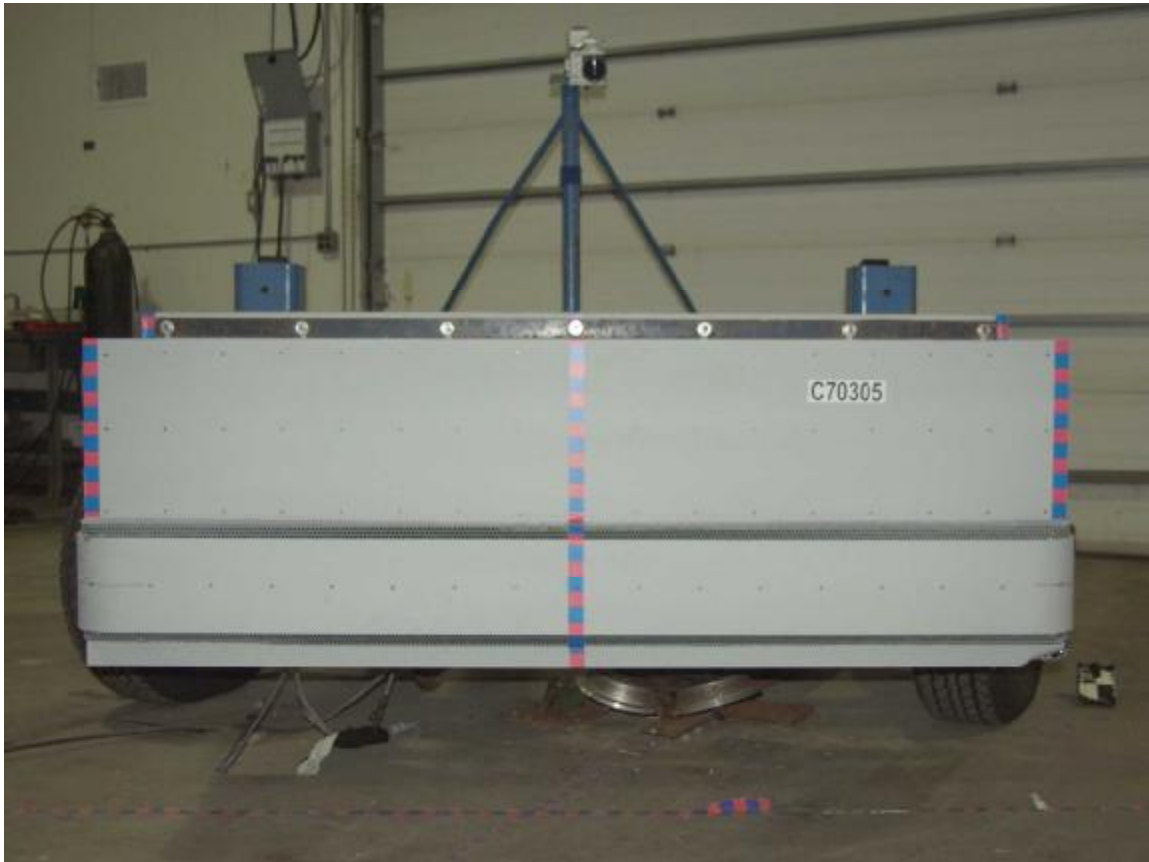


Figure A-21: Pre-Test Frontal View of MDB Impactor Face



Figure A-22: Post-Test Frontal View of MDB Impactor Face



Figure A-23: Pre-Test Left Side View of MDB Impactor Face



Figure A-24: Post-Test Left Side View of MDB Impactor Face



Figure A-25: Pre-Test Right Side View of MDB Impactor Face



Figure A-26: Post-Test Right Side View of MDB Impactor Face



Figure A-27: Pre-Test Top View of MDB Impactor Face



Figure A-28: Post-Test Top View of MDB Impactor Face



Figure A-29: Pre-Test Left Side View of Aligned MDB and Vehicle



Figure A-30: Pre-Test Right Side View of Aligned MDB and Vehicle



Figure A-31: Pre-Test Overhead View of Aligned MDB and Vehicle



Figure A-32: Post-Test Overhead View of MDB and Vehicle



Figure A-33: Pre-Test Close-Up View of Impact Point Target



Figure A-34: Post-Test Close-Up View of Impact Point Target



Figure A-35: Pre-Test Right Occupant Compartment View of Driver



Figure A-36: Post-Test Right Occupant Compartment View of Driver



Figure A-37: Pre-Test Right Occupant Compartment View of Passenger



Figure A-38: Post-Test Right Occupant Compartment View of Passenger



Figure A-39: Pre-Test Left Occupant Compartment View of Driver



Figure A-40: Post-Test Left Occupant Compartment View of Driver



Figure A-41: Pre-Test Left Occupant Compartment View of Passenger



Figure A-42: Post-Test Left Occupant Compartment View of Passenger



Figure A-43: Pre-Test Left Front Interior Trim



Figure A-44: Post-Test Left Front Interior Trim



Figure A-45: Pre-Test Left Rear Interior Trim



Figure A-46: Post-Test Left Rear Interior Trim



Figure A-47: Pre-Test Left Front ¾ View of Left Side Doors



Figure A-48: Post-Test Left Front ¾ View of Left Side Doors



Figure A-49: Pre-Test Left Rear $\frac{3}{4}$ View of Left Side Doors



Figure A-50: Post-Test Left Rear $\frac{3}{4}$ View of Left Side Doors



Figure A-51: Rollover 90 Degrees



Figure A-52: Rollover 180 Degrees



Figure A-53: Rollover 270 Degrees



Figure A-54: Rollover 360 Degrees



Figure A-55: Impact Photo

APPENDIX B
SID/HIII, VEHICLE AND MDB RESPONSE DATA
(SAE sign convention)

DATA CHANNEL FILTER CLASS SUMMARY

Data Type	SAE Filter Class
Dummy Head Accelerations	CFC 1000
Rib Accelerations	FIR 100
Spine Accelerations	FIR 100
Pelvis Accelerations	FIR 100

DATA CHANNEL TITLE KEY

Prefix	Suffix
V1 = Vehicle 1 (Moving Barrier)	Ax = Acceleration, X-direction
V2 = Vehicle 2 (Test Vehicle)	Ay = Acceleration, Y-direction
P1 = Left Front Seating Position (Driver)	Az = Acceleration, Z-direction
P4 = Left Second Row Seating Position (Passenger)	Fx = Force, X-direction
A1-A18 = Accelerometer Location Number	Fy = Force, Y-direction
	Fz = Force, Z-direction
	Mx = Moment about X
	My = Moment about Y
	Mz = Moment about Z

TABLE OF DATA PLOTS

PLOT	PLOT NAME[UNITS, CHANNEL FILTER CLASS]	PAGE
1	V2P1 Head Ax [g, CFC_1000]	B-5
2	V2P1 Head Ay [g, CFC_1000]	B-5
3	V2P1 Head Az [g, CFC_1000]	B-5
4	V2P1 Head Ar [g, CFC_1000]	B-5
5	V1P1 Upper Rib Ay [g, FIR_100]	B-6
6	V1P1 Lower Rib Ay [g, FIR_100]	B-6
7	V1P1 Lower Spine Ay [g, FIR_100]	B-6
8	V1P1 Pelvic Ay [g, FIR_100]	B-6
9	V2P4 Head Ax [g, CFC_1000]	B-7
10	V2P4 Head Ay [g, CFC_1000]	B-7
11	V2P4 Head Az [g, CFC_1000]	B-7
12	V2P4 Head Ar [g, CFC_1000]	B-7
13	V1P4 Upper Rib Ay [g, FIR_100]	B-8
14	V1P4 Lower Rib Ay [g, FIR_100]	B-8
15	V1P4 Lower Spine Ay [g, FIR_100]	B-8
16	V1P4 Pelvic Ay [g, FIR_100]	B-8

The following dummy, vehicle and load cell response data can be found in the research and development section of the NHTSA website at: www.nhtsa.dot.gov

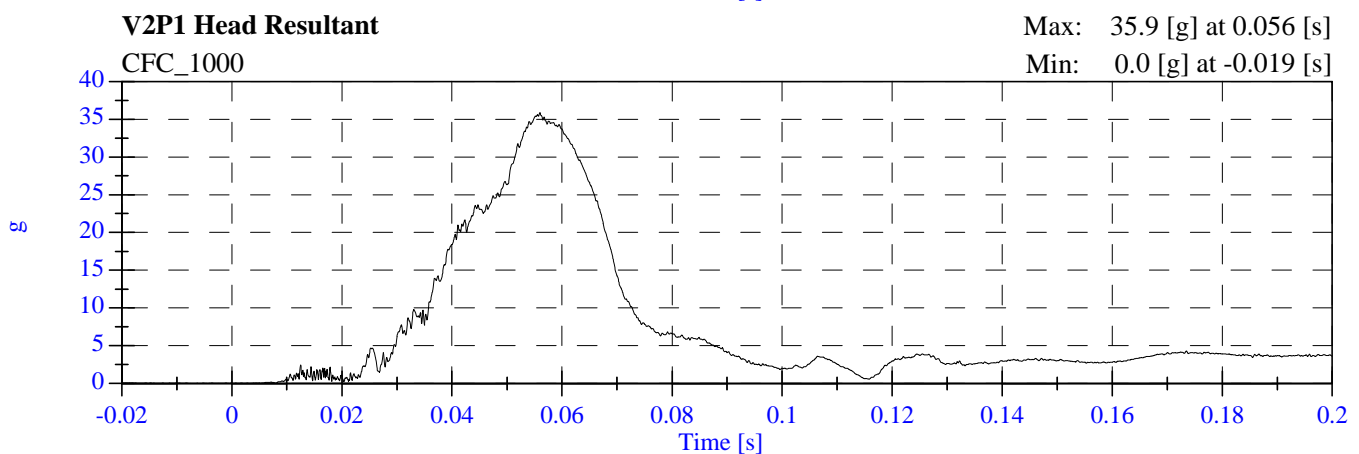
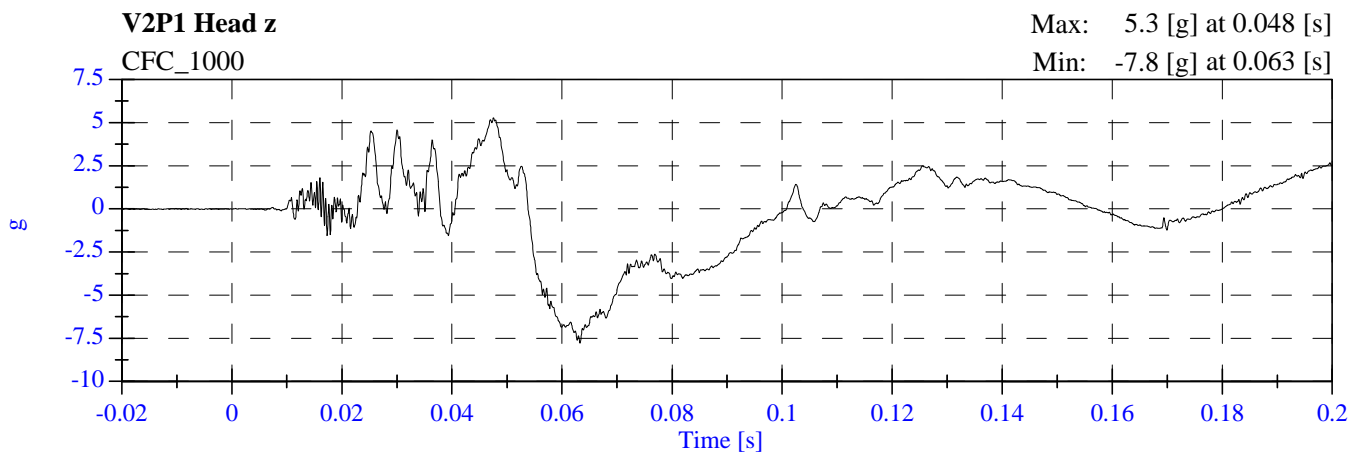
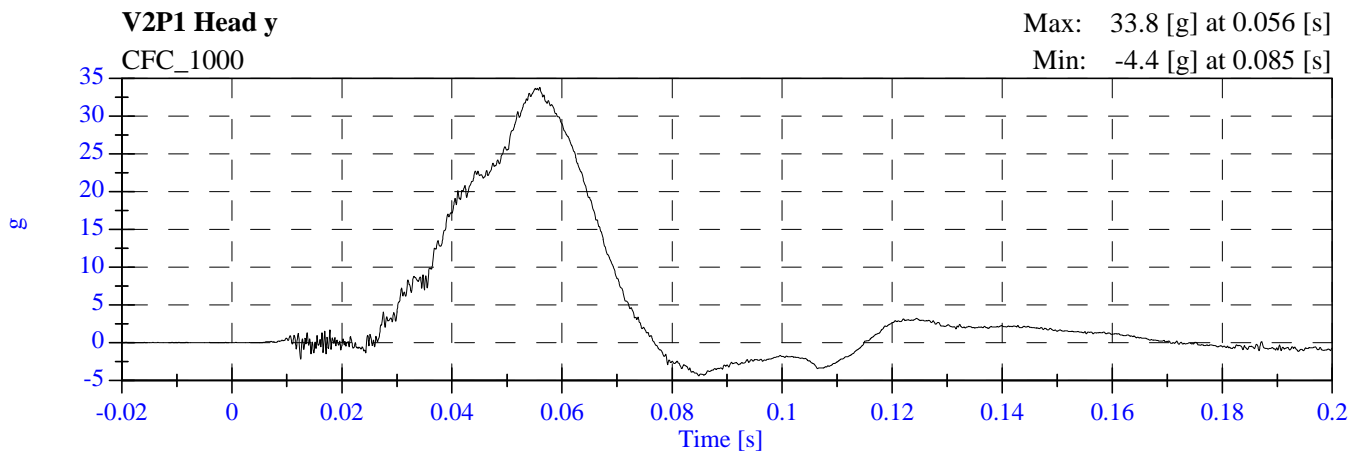
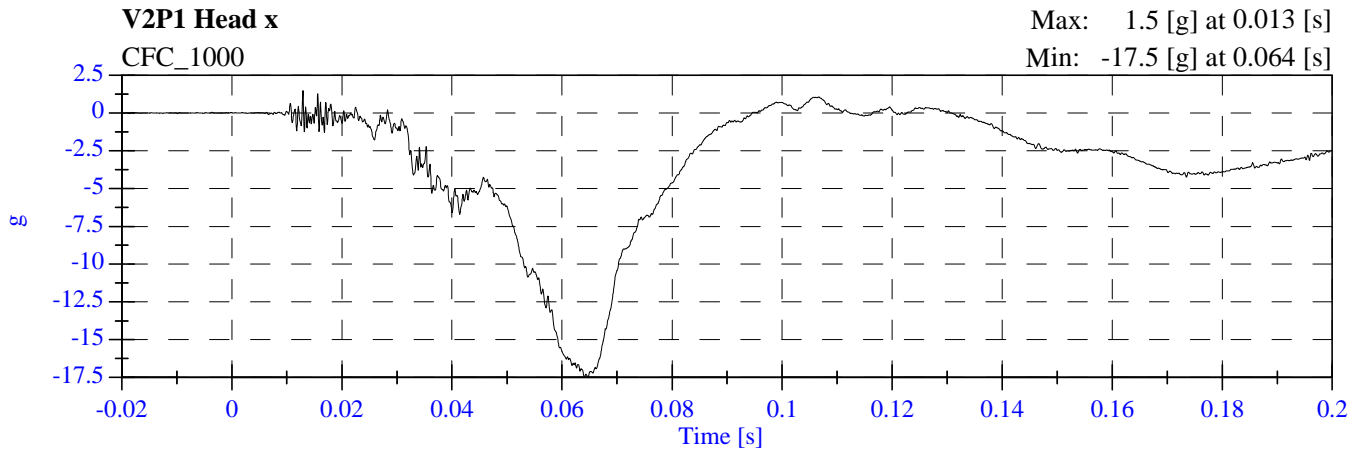
V2P1 Head Ax	V2A1 Right Front Sill Ax
V2P1 Head Ay	V2A1 Right Front Sill Ay
V2P1 Head Az	V2A1 Right Front Sill Az
V2P1 Upper Neck Fx	V2A2 Right Rear Sill Ax
V2P1 Upper Neck Fy	V2A2 Right Rear Sill Ay
V2P1 Upper Neck Fz	V2A2 Right Rear Sill Az
V2P1 Upper Neck Mx	V2A3 Rear Floorpan Ax
V2P1 Upper Neck My	V2A3 Rear Floorpan Ay
V2P1 Upper Neck Mz	V2A3 Rear Floorpan Az
V2P1 Upper Rib Ay	V2A4 Left Rear Sill Ay
V2P1 Upper Rib Redundant Ay	V2A5 Left Front Sill Ay
V2P1 Lower Rib Ay	V2A7 Right Rear Compartment Ay
V2P1 Lower Rib Redundant Ay	V2A12 Left Lower B Post Ay
V2P1 Lower Spine Ay	V2A13 Left Mid B Post Ay
V2P1 Lower Spine Redundant Ay	V2A14 Left Lower A Post Ay
V2P1 Pelvic Ay	V2A15 Left Mid A Post Ay
V2P1 Pelvic Redundant Ay	V2A16 Front Seat Track Ay
V2P4 Head Ax	V2A17 Rear Seat Track Ay
V2P4 Head Ay	V2A18 Target CG Ax
V2P4 Head Az	V2A18 Target CG Ay
V2P4 Upper Neck Fx	V2A18 Target CG Az
V2P4 Upper Neck Fy	V1 Moving Barrier CG Ax
V2P4 Upper Neck Fz	V1 Moving Barrier CG Ay
V2P4 Upper Neck Mx	V1 Moving Barrier CG Az
V2P4 Upper Neck My	V1 Moving Barrier Left Rail Ax
V2P4 Upper Neck Mz	V1 Moving Barrier Left Rail Ay
V2P4 Upper Rib Ay	
V2P4 Upper Rib Redundant Ay	
V2P4 Lower Rib Ay	
V2P4 Lower Rib Redundant Ay	
V2P4 Lower Spine Ay	
V2P4 Lower Spine Redundant Ay	
V2P4 Pelvic Ay	
V2P4 Pelvic Redundant Ay	

TEST NOTES

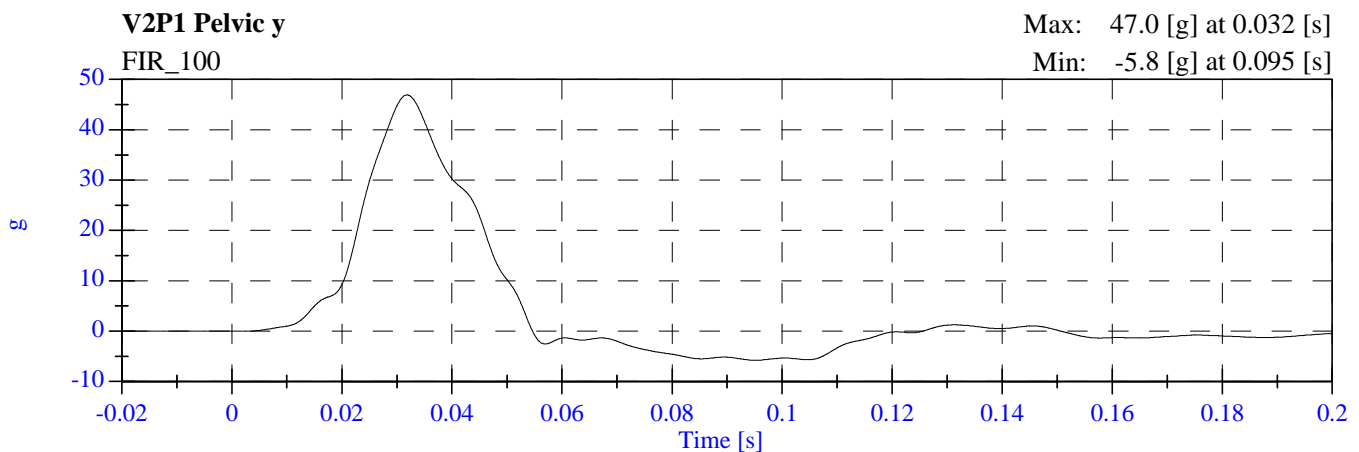
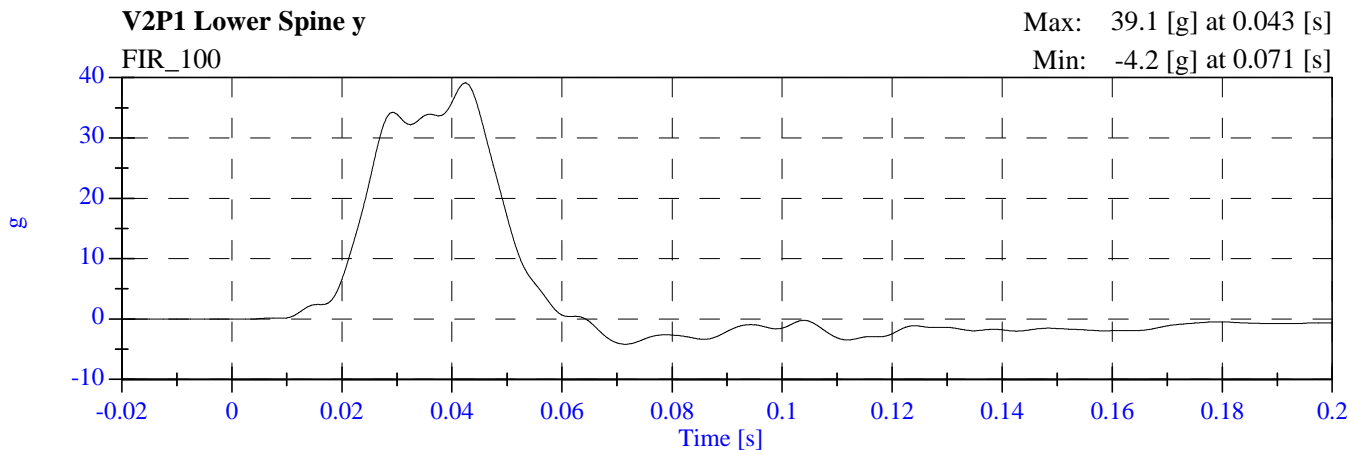
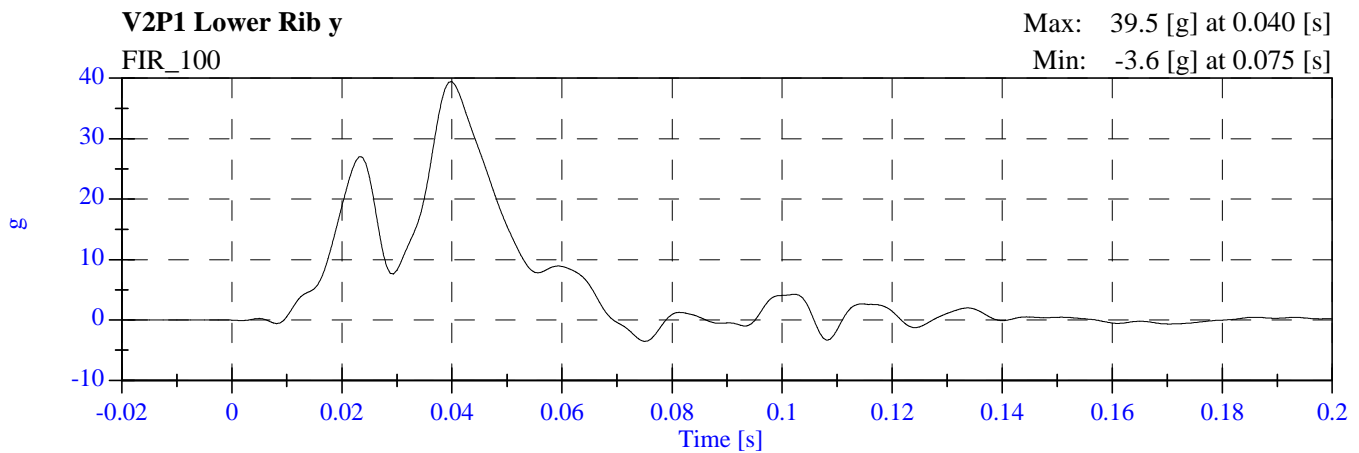
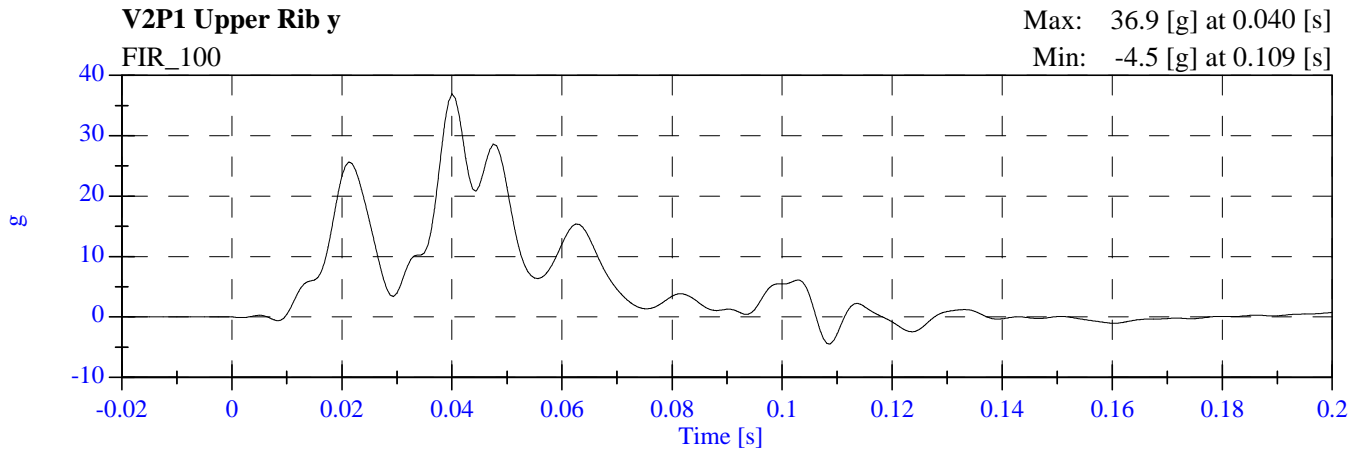
The following channel anomalies occurred:

V2P4 Upper Rib Ry Transducer Failed

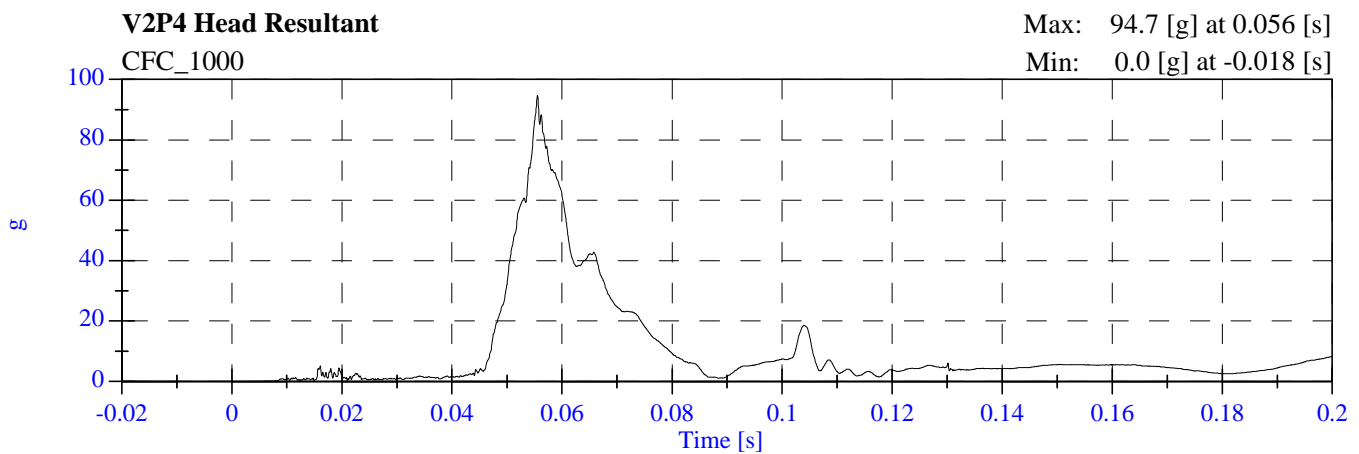
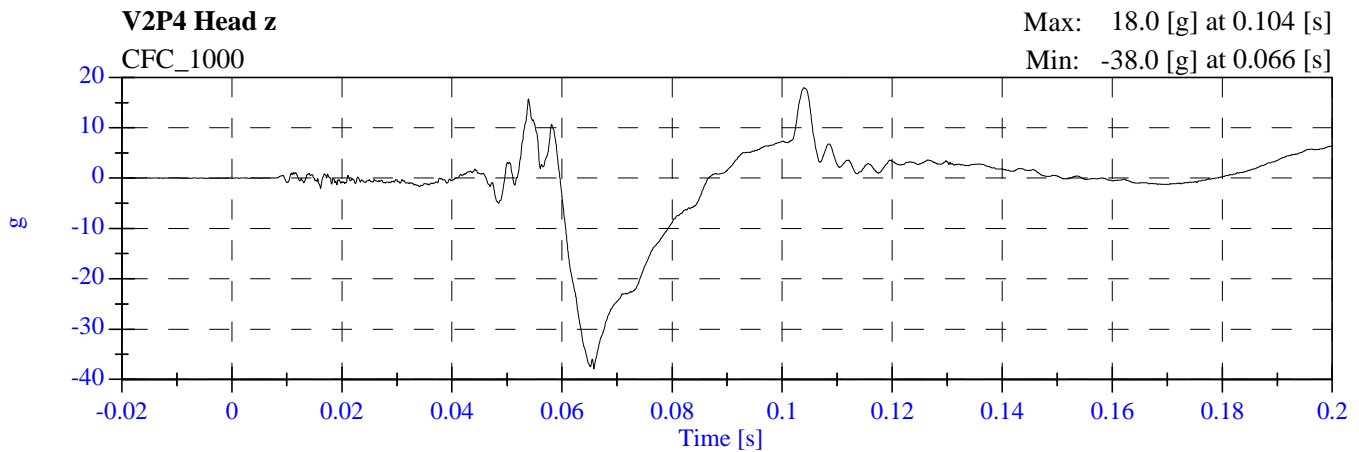
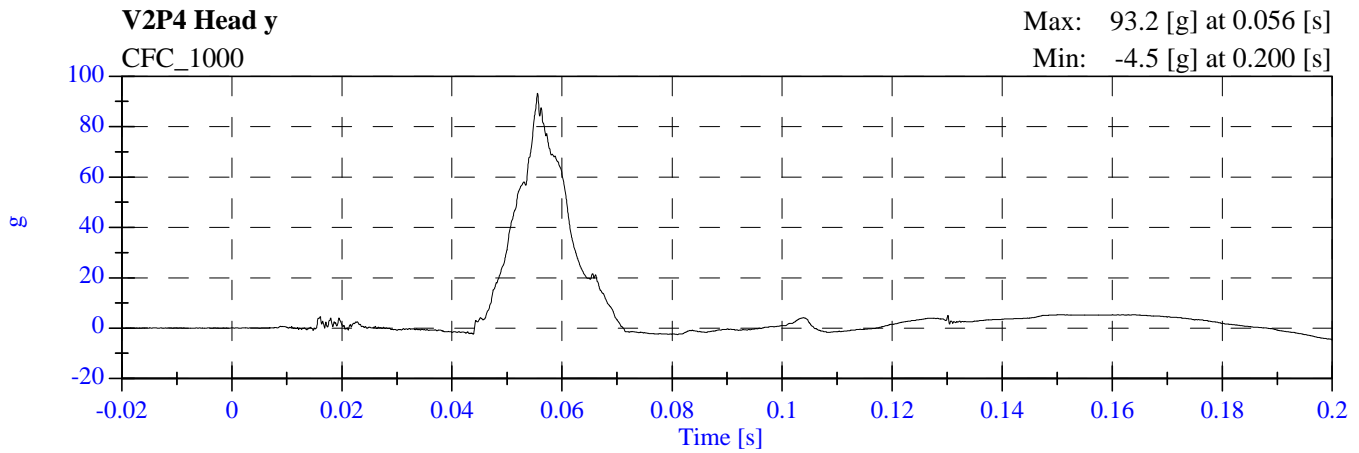
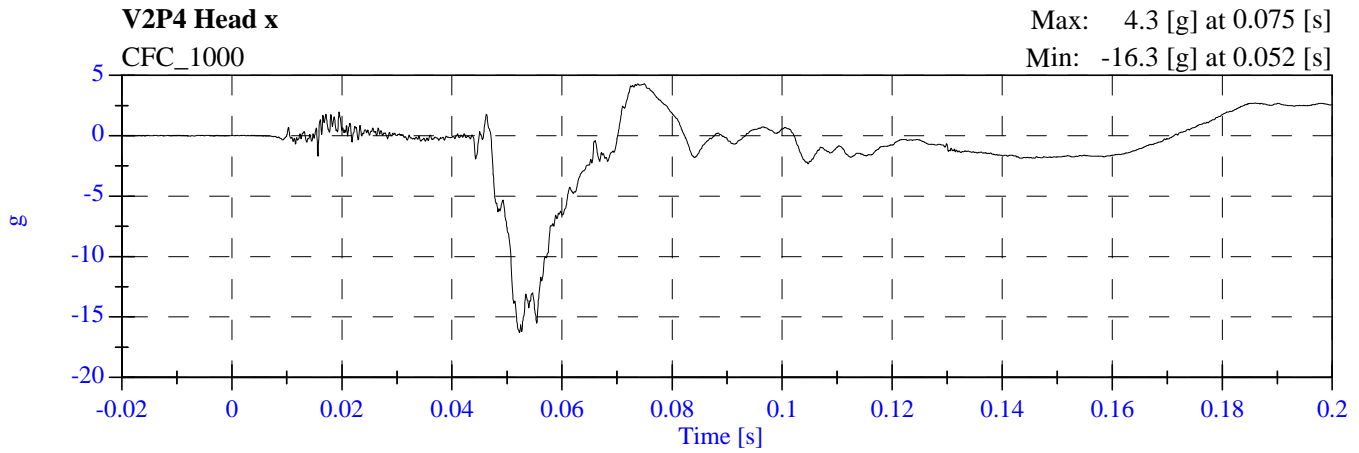
FMVSS 214D Indicant - 2007 Chrysler Sebring C70305 - November 30, 2006



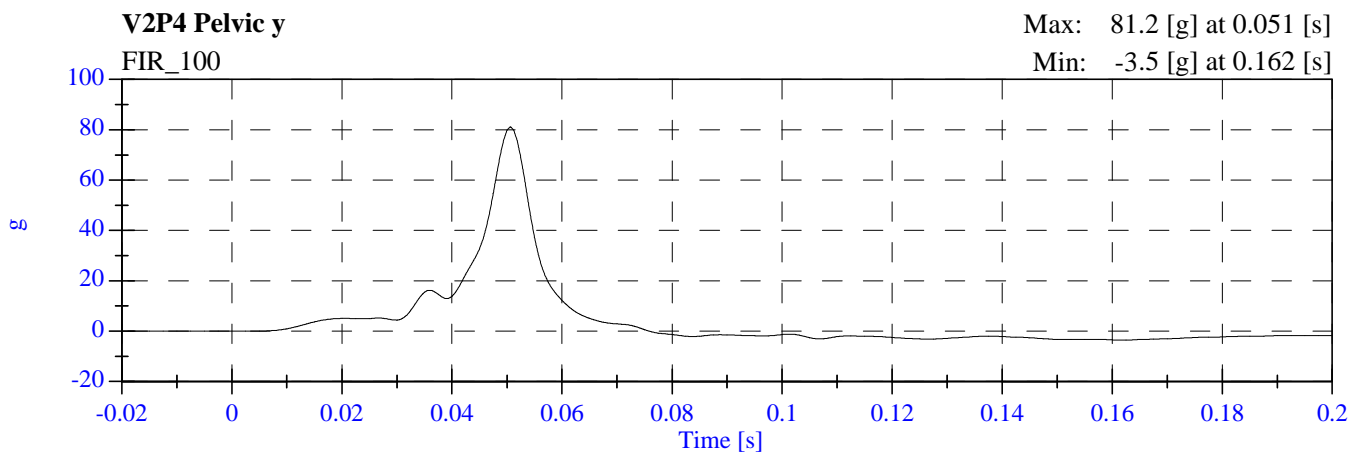
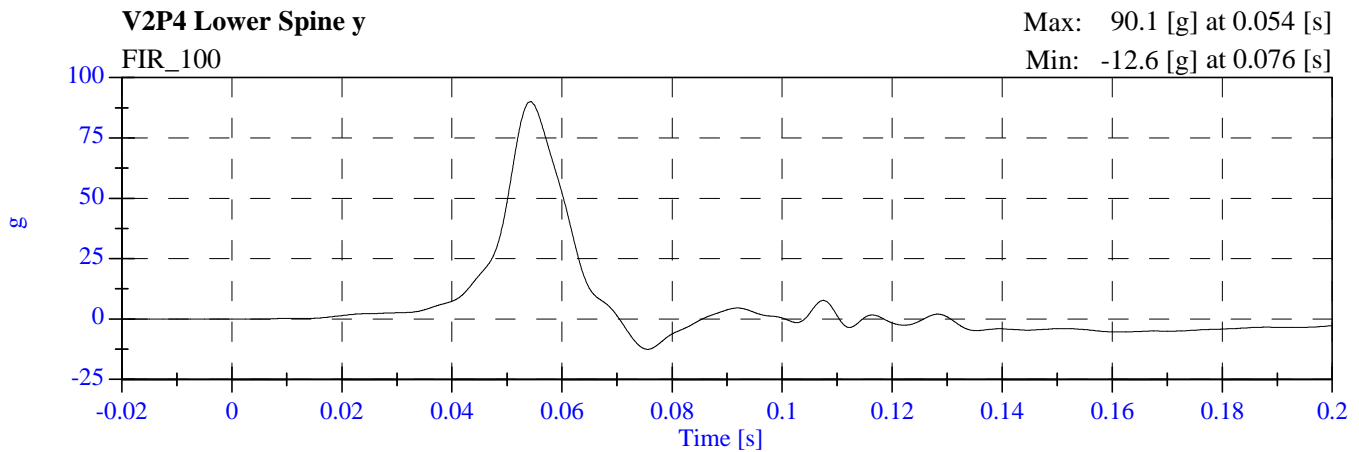
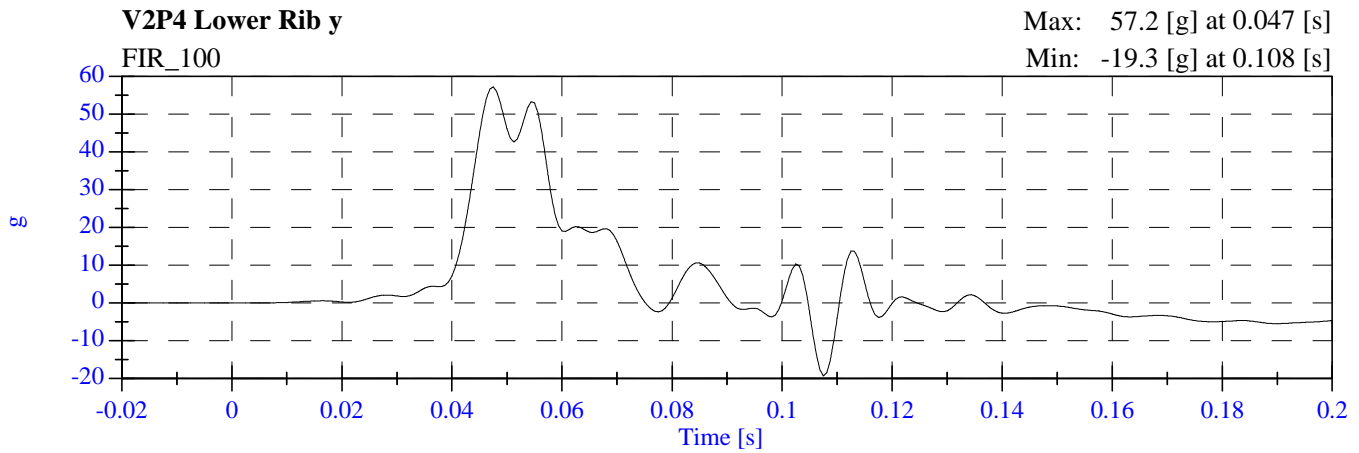
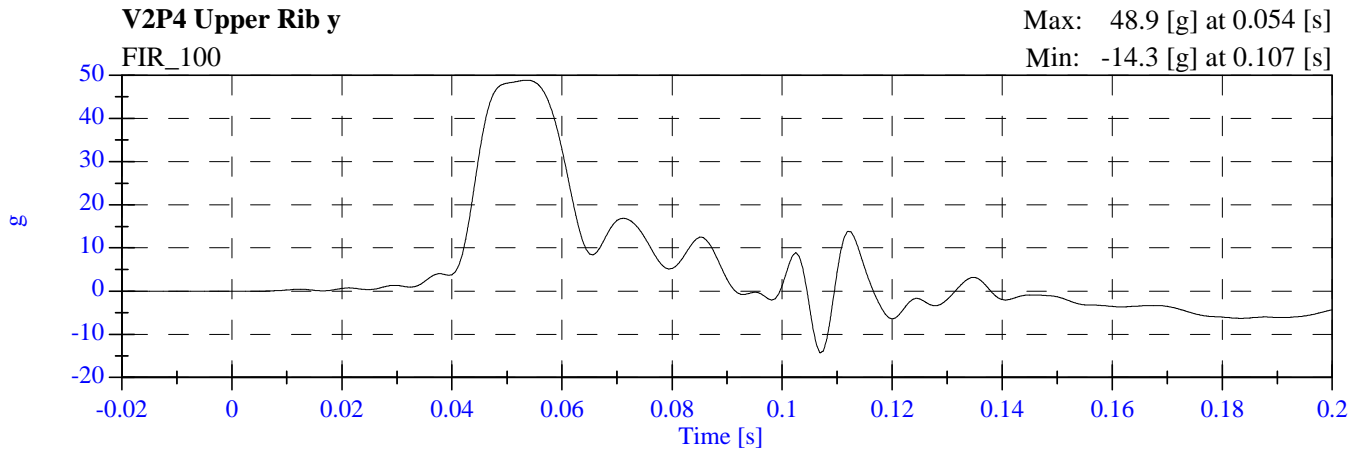
FMVSS 214D Indicant - 2007 Chrysler Sebring C70305 - November 30, 2006



FMVSS 214D Indicant - 2007 Chrysler Sebring C70305 - November 30, 2006



FMVSS 214D Indicant - 2007 Chrysler Sebring C70305 - November 30, 2006



APPENDIX C
DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SUMMARY
SID H3 PRE & POST TEST CALIBRATION
CONFIGURED FOR LEFT SIDE IMPACT

Date: November 27, 2006 Sequential Test Number: 1.5; 1.5
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID H3 NO.: 905		SID H3 NO.: 906	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	895	902	895	904
RH- Rib Height (mm)	501 - 521	513	513	513	513
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	233	241	232	239
KV- Knee Pivot from Back Line (mm)	511 - 526	516	521	517	518
SW- Knee Pivot to Floor (mm)	490 - 505	495	493	498	493
HW- Hip Width (mm)	356 - 391	370	378	371	384
THORAX IMPACTS					
TEMPERATURE (• C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	42.0	37.0	42.0	35.0
PROBE SPEED (m/s)	4.27 - 4.33	4.29	4.32	4.28	4.32
UPPER RIB (g's)	37 - 46	42.02	38.05	45.05	42.66
LOWER RIB (g's)	37 - 46	40.68	37.90	43.42	41.67
LOWER SPINE (g's)	15 - 22	20.42	18.92	21.28	20.29
PELVIS IMPACT					
TEMPERATURE (• C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	42.0	37.0	42.0	35.0
PROBE SPEED (m/s)	4.27 - 4.33	4.28	4.28	4.30	4.29
PELVIS (g's)	40 - 60	41.39	42.27	41.72	43.05

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 905

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1.5
Date: 11/27/2006 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1.5
Date: 11/27/2006 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 – 909	895
RH- Rib Height (mm)	502 – 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 – 241	233
KH- Knee Pivot from Back Line (mm)	511 – 526	516
KV- Knee Pivot to Floor (mm)	490 – 505	495
HW- Hip Width (mm)	356 - 391	370

REMARKS: None

SID Shock Test S/N:905 (3.05 m/s)

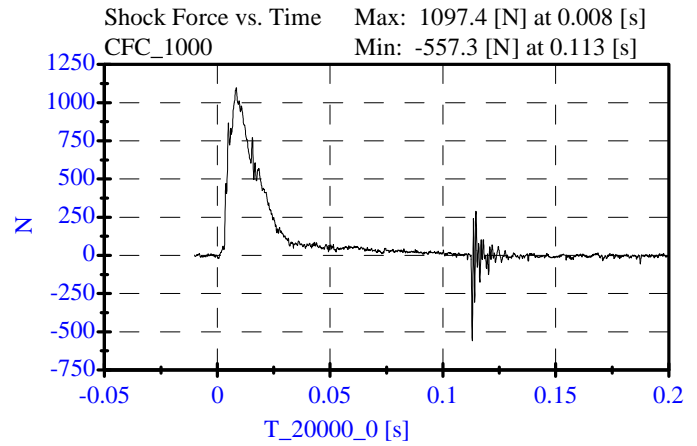
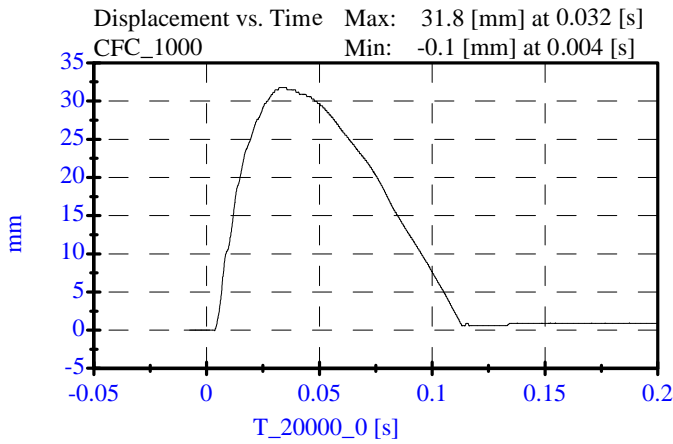
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: July 26, 2006

Sequential Test Number: 1 File: 905SL
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Displacement:	30.00-35.00 mm	31.80 mm	Passed
Maximum Force:	836.00-1125.00 N	1097.35 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	905		
Damper Setting:	5		



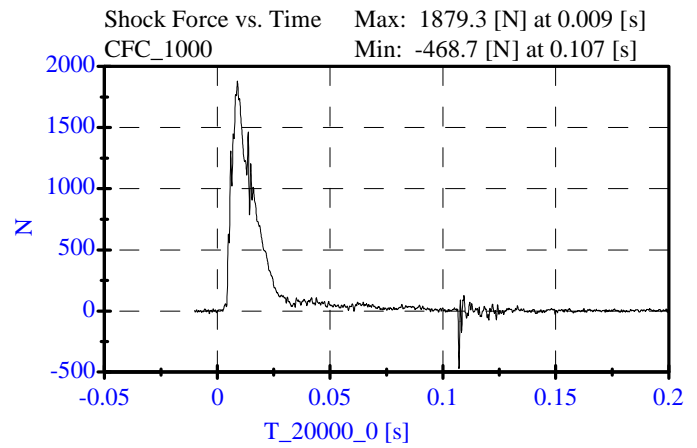
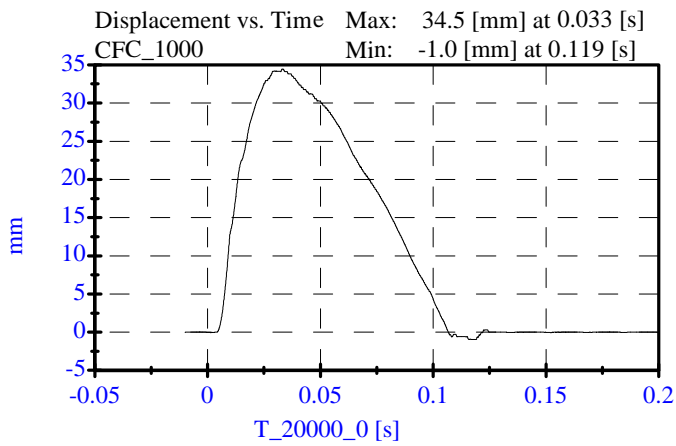
SID Shock Test S/N:905 (4.27 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
 Date: July 26, 2006

Sequential Test Number: 1 File: 905SM
 Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Displacement:	32.00-37.00 mm	34.46 mm	Passed
Maximum Force:	1730.00-2099.00 N	1879.32 N	Passed

Impact Test Velocity: 4.27 m/s
 Damper Identification: 905
 Damper Setting: 5



SID Shock Test S/N:905 (6.10 m/s)

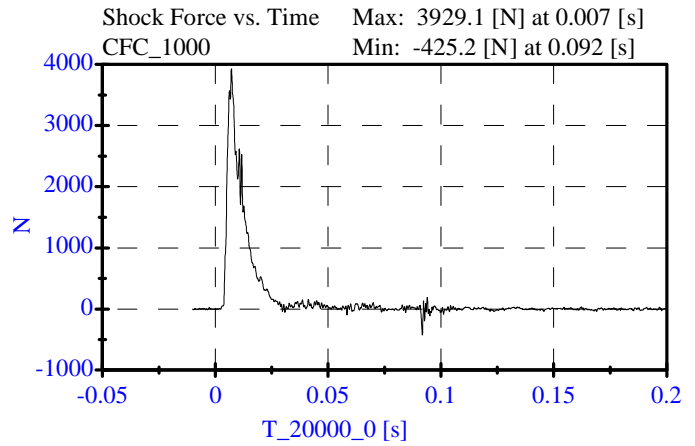
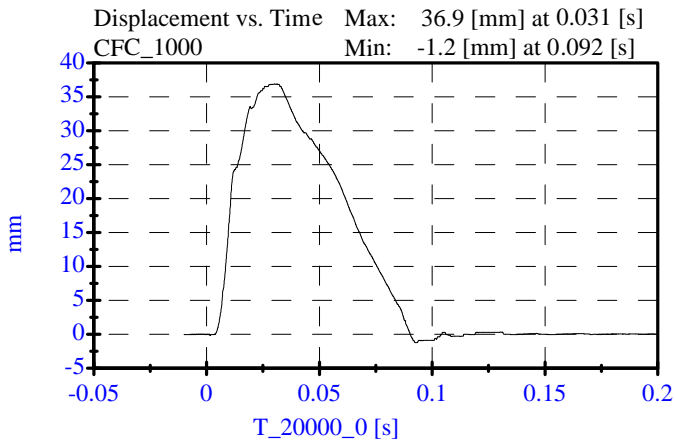
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: July 26, 2006

Sequential Test Number: 1 File: 905SH
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Displacement:	33.00-40.00 mm	36.86 mm	Passed
Maximum Force:	3741.00-4448.00 N	3929.08 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	905		
Damper Setting:	5		



Thorax Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

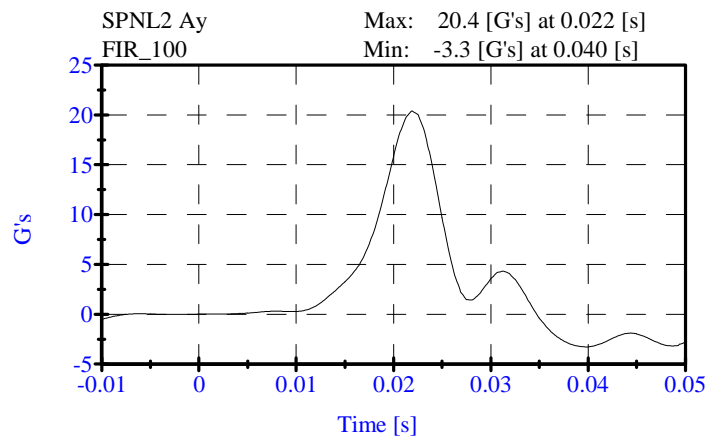
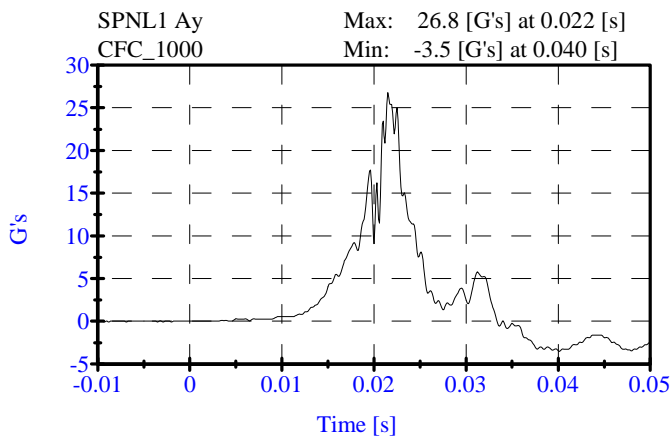
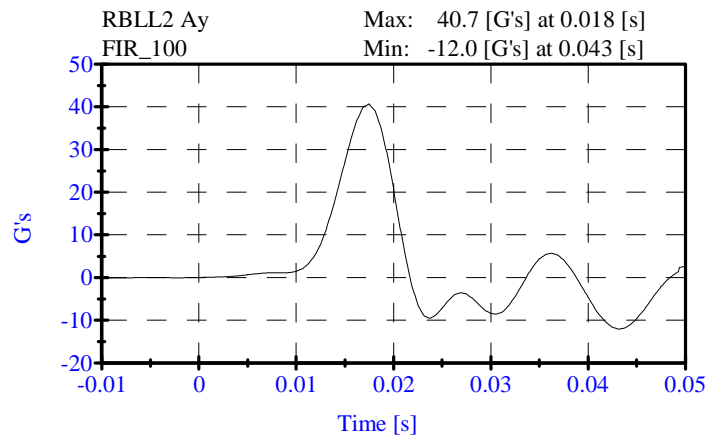
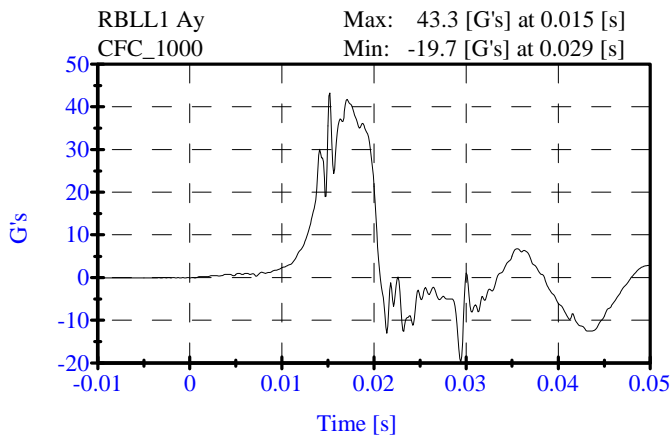
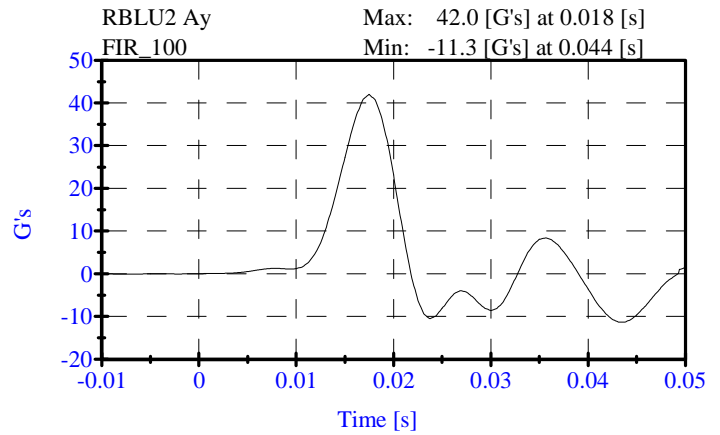
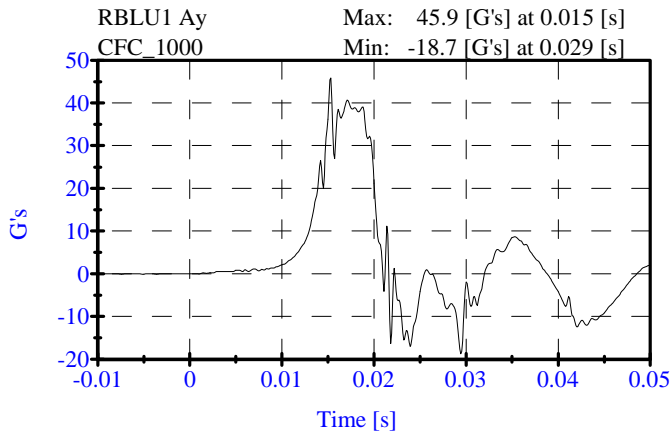
ATD Serial No: 905

Date: 11-27-06

Sequential Test Number: 1 File: 905T 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	42.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.29 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	42.02 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	40.68 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	20.42 G's	Passed



Pelvic Impact

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

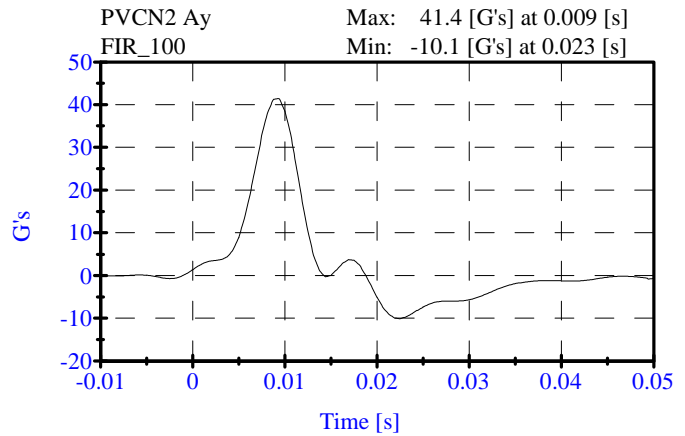
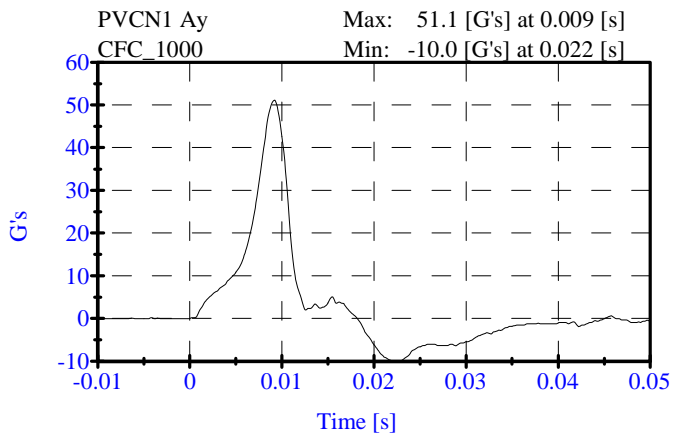
ATD Serial No: 905

Date: 11-27-06

Sequential Test Number: 1 File: 905P1 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	42.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.28 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	41.39 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.4 ms	Passed



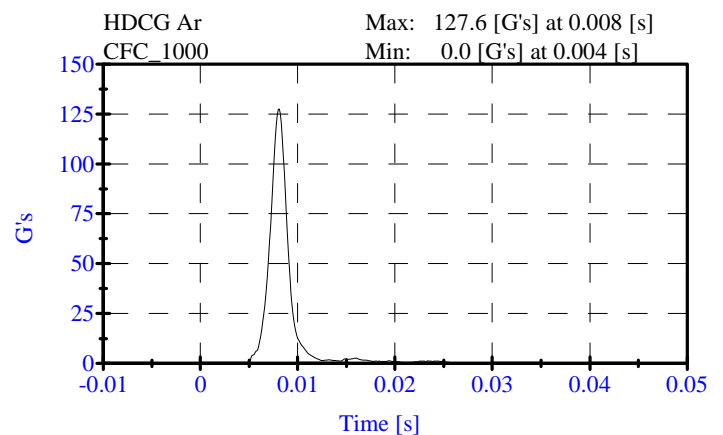
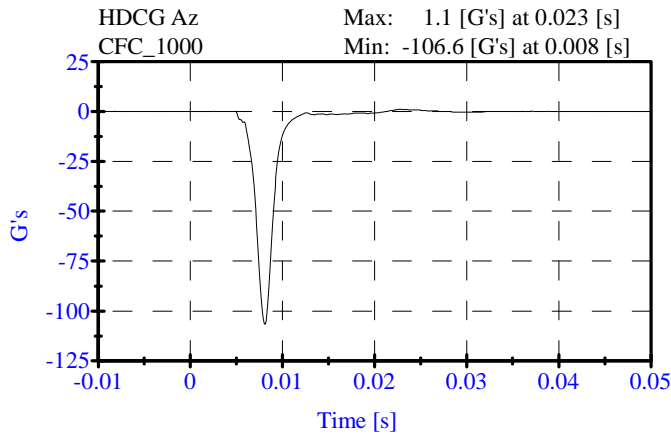
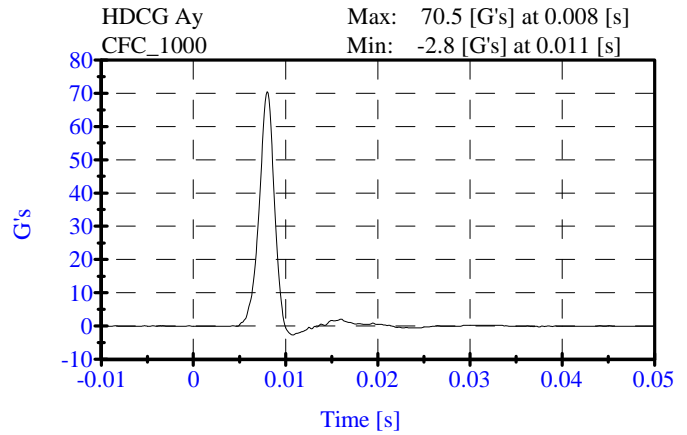
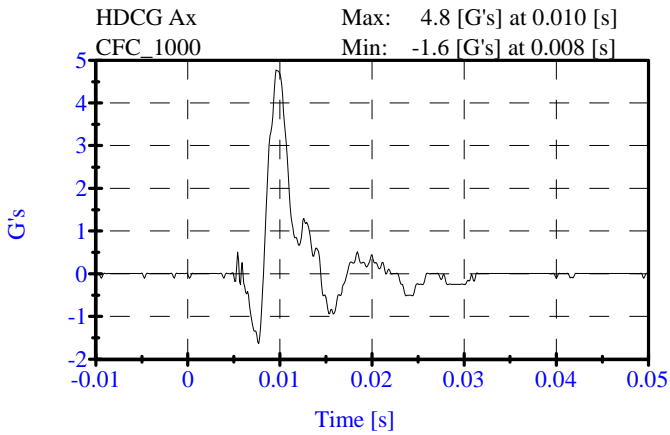
**Head Drop
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: 11-22-06

Sequential Test Number: 1 File: 905HD 11-22-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	36.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	127.57 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	4.77 Gs	Passed
Curve PerCent NonModal:	< 15%	2.10 %	Passed



**Neck Test
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: 11-22-06

Sequential Test Number: 1 File: 905N 11-22-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	36.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.00 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.25 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.67 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.67 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.13 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	71.95 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	60.40 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	85.43 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	54.40 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	11.40 ms	Passed

**Neck Test
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

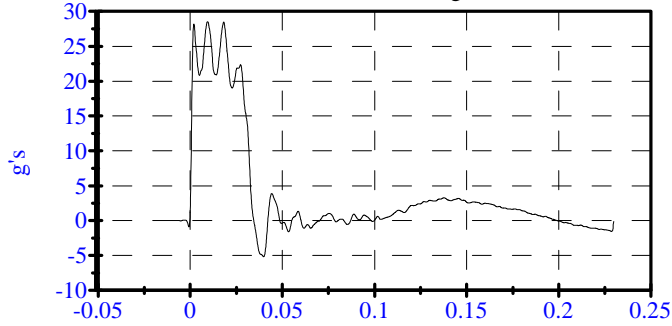
ATD Serial No: 905

Date: 11-22-06

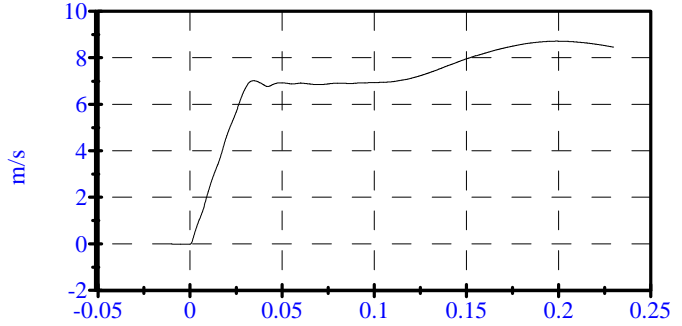
Sequential Test Number: 1 File: 905N 11-22-06

Laboratory Technician: B. Swiecicki

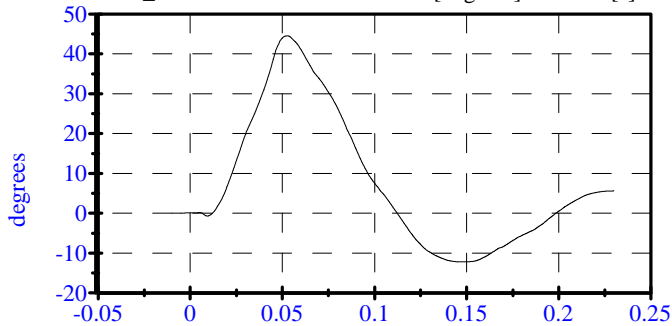
Pend Ax
CFC_180 Max: 28.5 [g's] at 0.009 [s]
 Min: -5.2 [g's] at 0.040 [s]



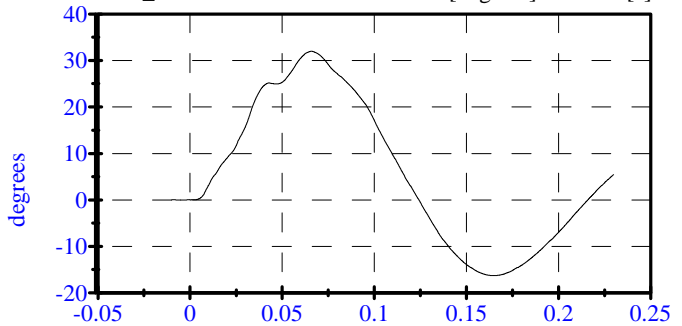
Pend Vx
CFC_180 Max: 8.7 [m/s] at 0.199 [s]
 Min: -0.0 [m/s] at -0.000 [s]



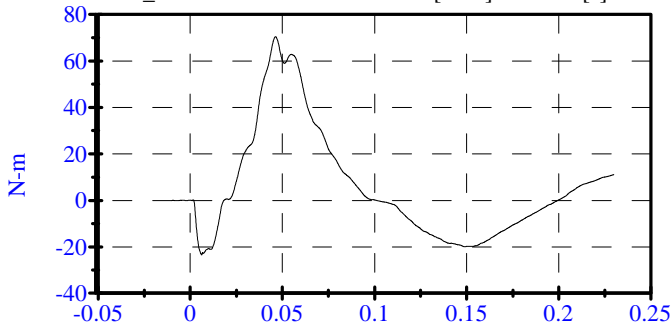
Head Rot
CFC_180 Max: 44.5 [degrees] at 0.053 [s]
 Min: -12.2 [degrees] at 0.148 [s]



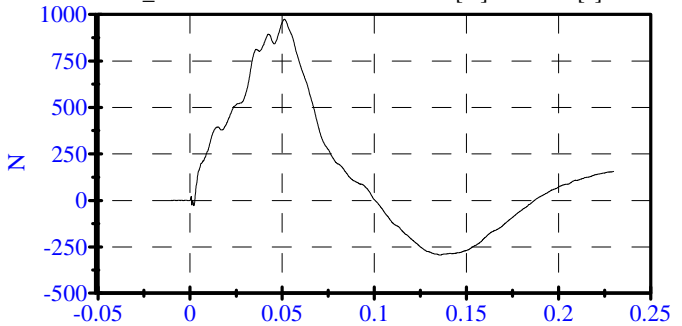
Arm Rot
CFC_180 Max: 31.9 [degrees] at 0.066 [s]
 Min: -16.3 [degrees] at 0.165 [s]



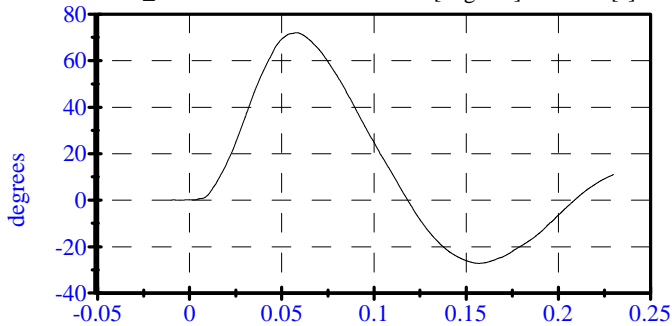
Neck Mx
CFC_600 Max: 70.4 [N-m] at 0.046 [s]
 Min: -23.4 [N-m] at 0.006 [s]



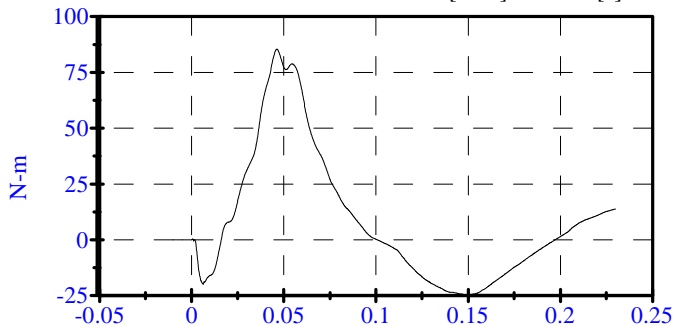
Neck Fy
CFC_1000 Max: 973.0 [N] at 0.051 [s]
 Min: -294.2 [N] at 0.136 [s]



Tot Rot
CFC_180 Max: 72.0 [degrees] at 0.058 [s]
 Min: -27.2 [degrees] at 0.157 [s]



Mocx
 Max: 85.4 [N-m] at 0.046 [s]
 Min: -24.8 [N-m] at 0.149 [s]



Abdomen Test

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905

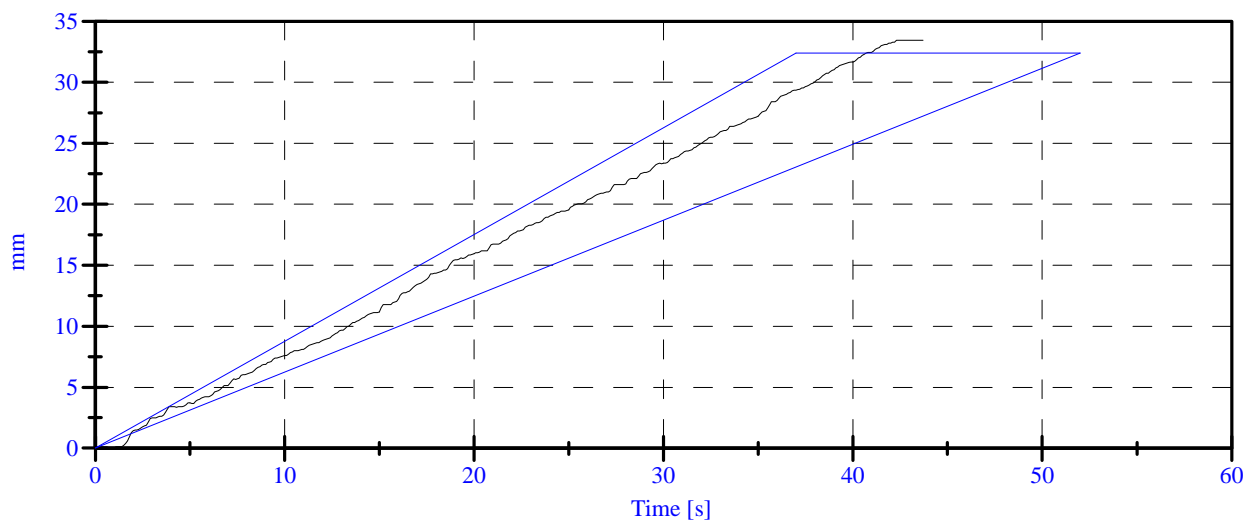
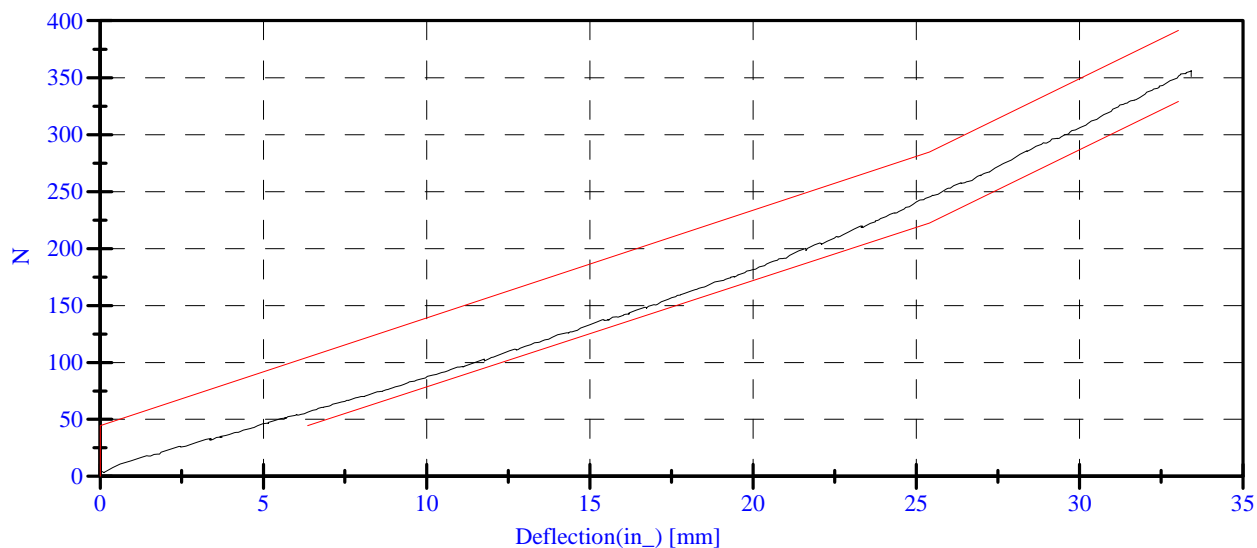
Date: 11-27-06

Sequential Test Number: 1 File: 905AB 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	40.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	114.25 N	Passed
Force at 19.05 mm :	162.98-220.99 N	171.89 N	Passed
Force at 25.40 mm :	221.97-280.02 N	245.84 N	Passed
Force at 33.02 mm :	324.99-391.00 N	351.68 N	Passed

ABDOMINAL COMPRESSION TEST



Lumbar Spine

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905

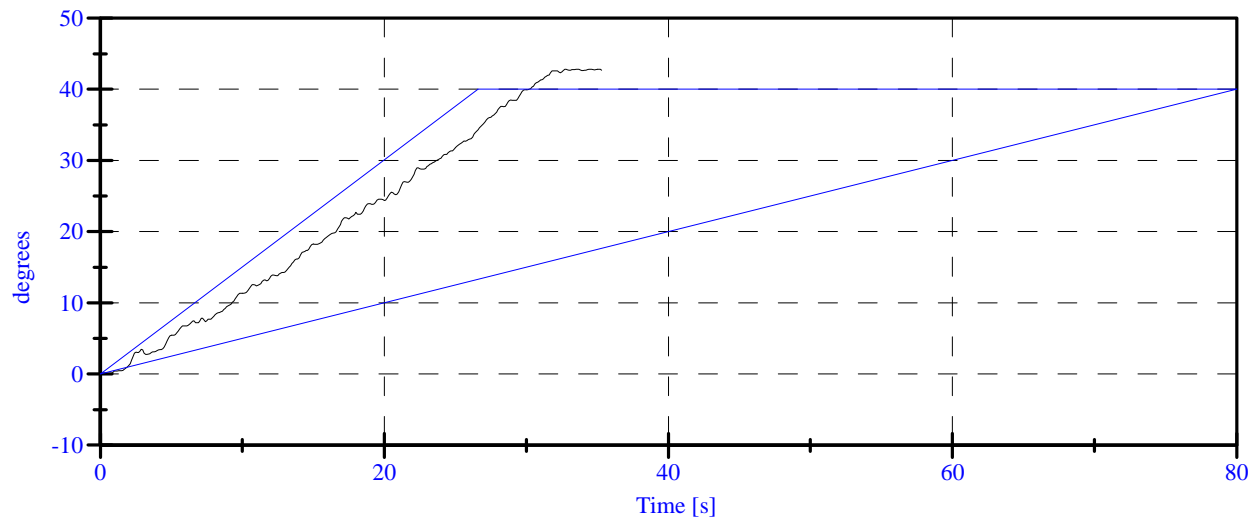
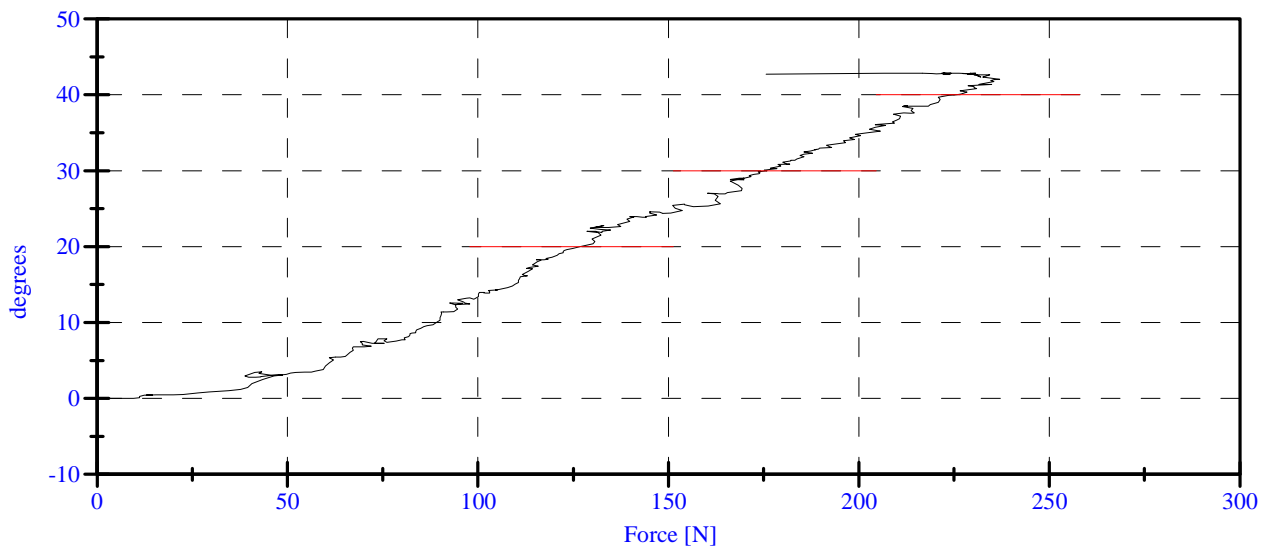
Date: 11-27-06

Sequential Test Number: 1 File: 905SP 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	40.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	2.22 N	Passed
Force at 20 Deg:	97.86-151.24 N	126.79 N	Passed
Force at 30 Deg:	151.24-204.62 N	175.89 N	Passed
Force at 40 Deg:	204.62-258.00 N	226.29 N	Passed
Return Angle	12 Deg Max	3.55 deg	Passed

LUMBAR SPINE FLEXION TEST



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1.5
 Date: 11/27/2006 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 906

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1.5
Date: 11/27/2006 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1.5
Date: 11/27/2006 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	895
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	232
KH- Knee Pivot from Back Line (mm)	511 - 526	517
KV- Knee Pivot to Floor (mm)	490 - 505	498
HW- Hip Width (mm)	356 - 391	371

REMARKS: None

SID Shock Test S/N:906 (3.05 m/s)

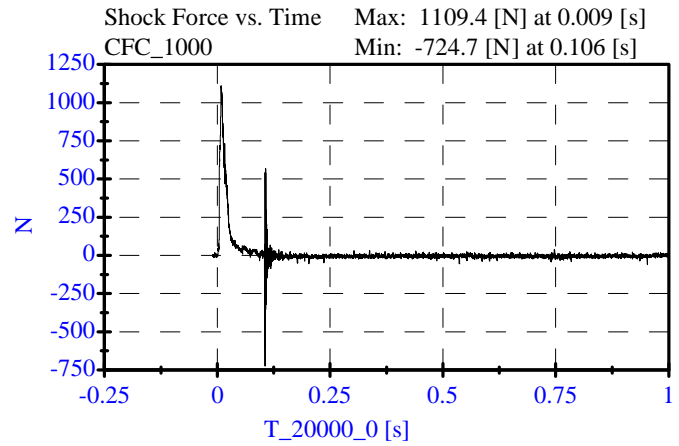
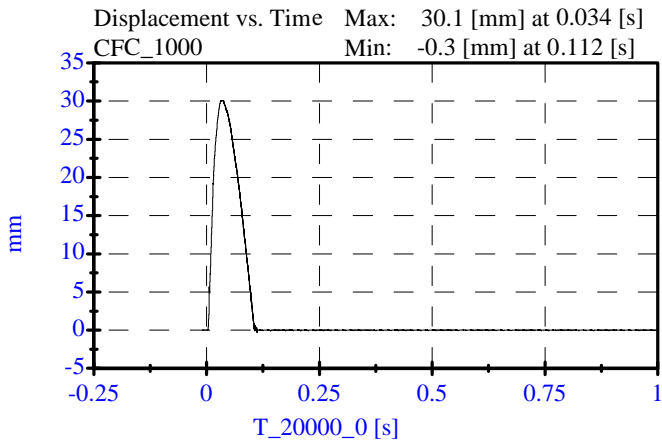
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: September 11, 2006

Sequential Test Number: 1 File: 905SH
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Displacement:	30.00-35.00 mm	30.05 mm	Passed
Maximum Force:	836.00-1125.00 N	1109.43 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	906		
Damper Setting:	5		



SID Mid Speed Shock Test S/N:906 (4.27 m/s)

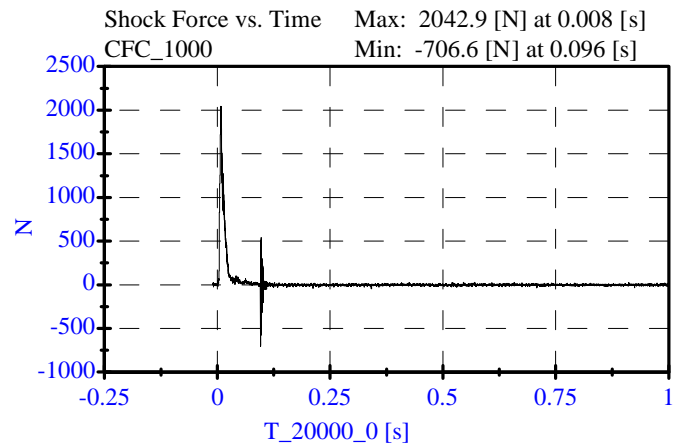
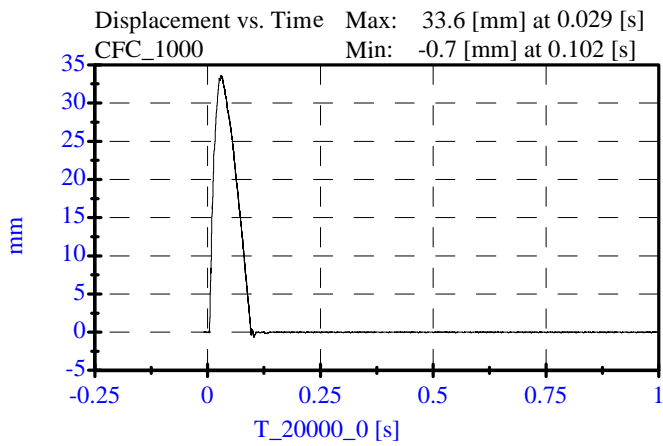
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: September 11, 2006

Sequential Test Number: 1 File: 906SH
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Displacement:	32.00-37.00 mm	33.58 mm	Passed
Maximum Force:	1730.00-2099.00 N	2042.90 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	906		
Damper Setting:	5		



SID High Speed Shock Test S/N:906 (6.10 m/s)

PRE TEST

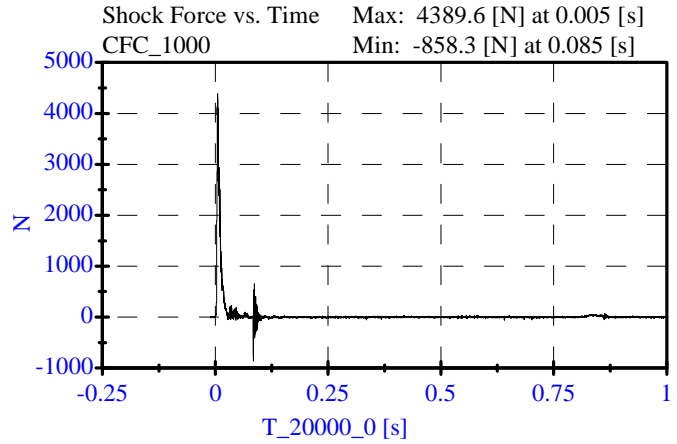
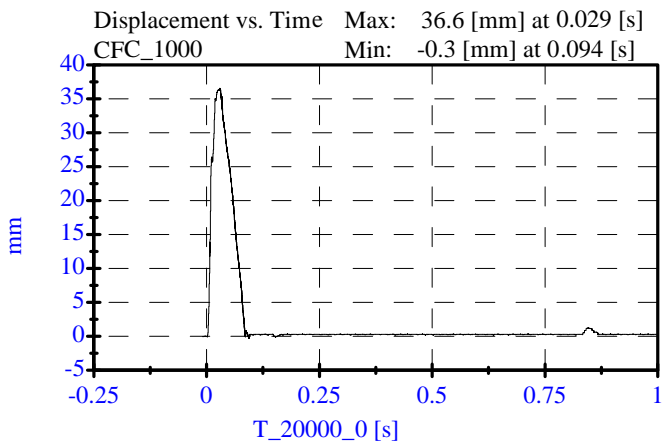
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: September 11, 2006

Sequential Test Number: 1 File: 906SH
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Displacement:	33.00-40.00 mm	36.58 mm	Passed
Maximum Force:	3741.00-4448.00 N	4389.60 N	Passed

Impact Test Velocity: 6.10 m/s
Damper Identification: 906
Damper Setting: 5



Thorax Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

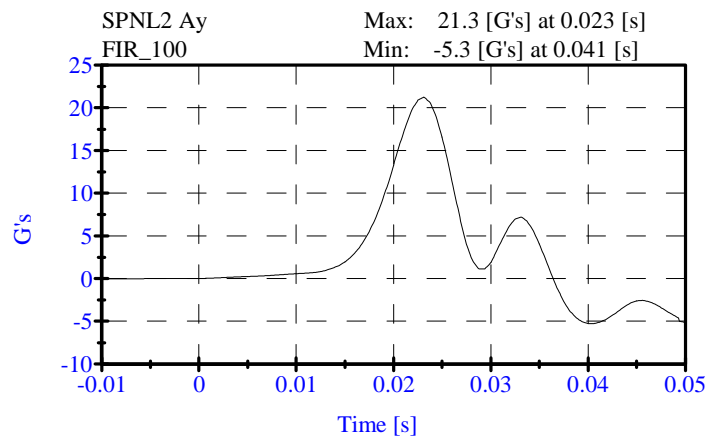
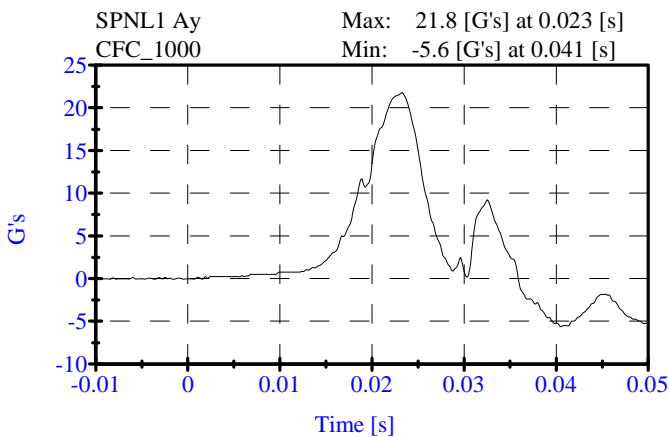
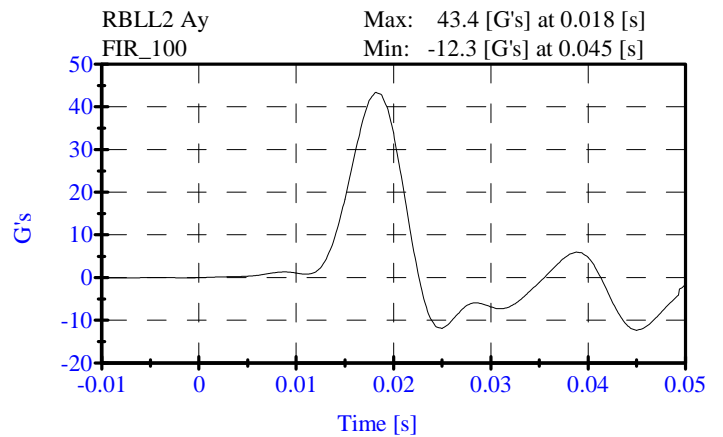
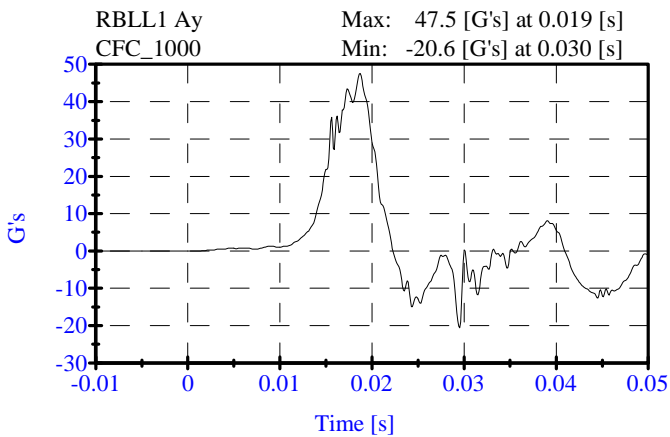
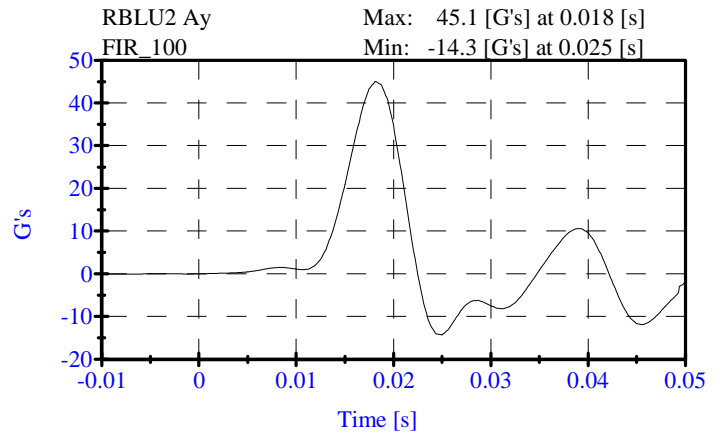
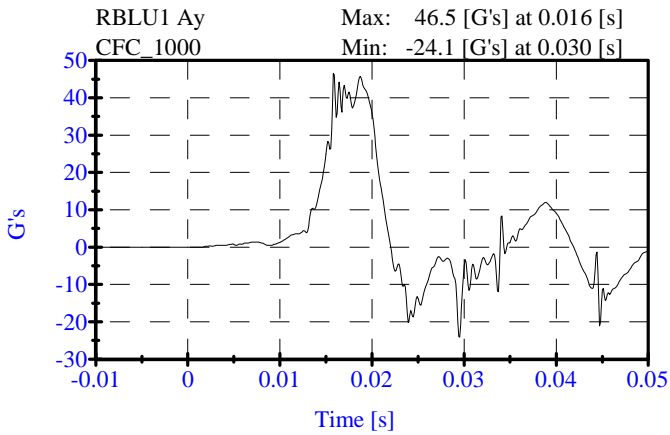
ATD Serial No: 906

Date: 11-27-06

Sequential Test Number: 1 File: 906T 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	42.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.28 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	45.05 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	43.42 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	21.28 G's	Passed



Pelvic Impact

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

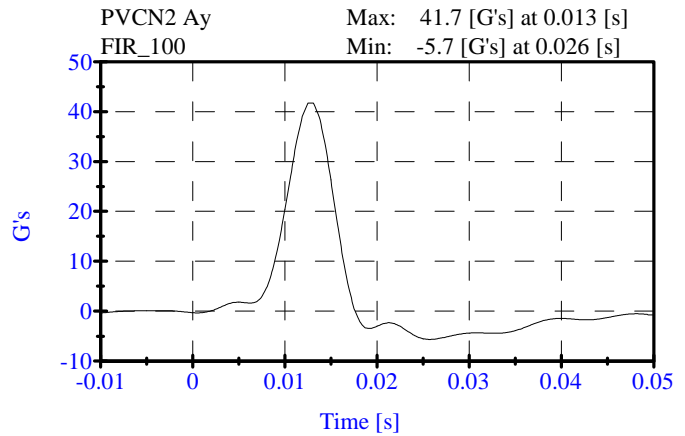
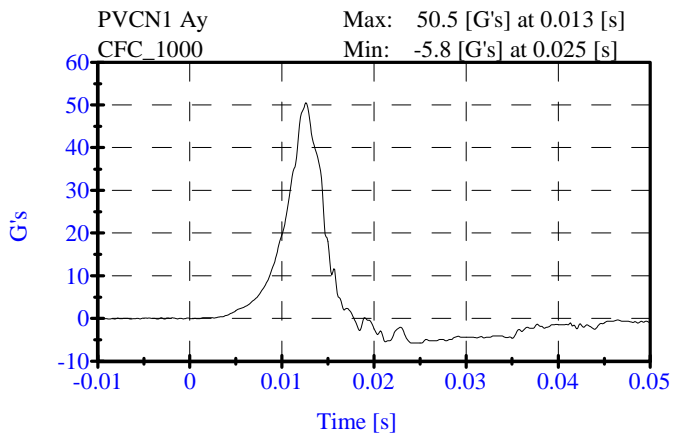
ATD Serial No: 906

Date: 11-27-06

Sequential Test Number: 1 File: 906P 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	42.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.30 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	41.72 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.5 ms	Passed



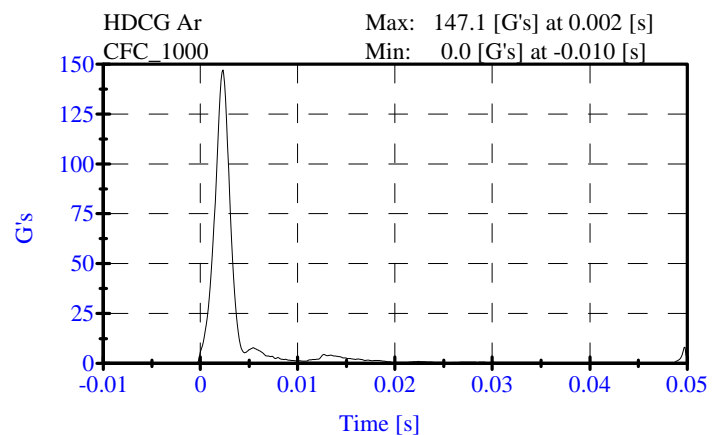
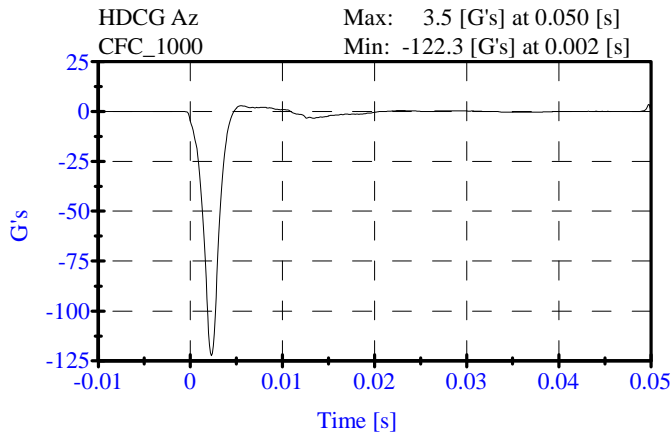
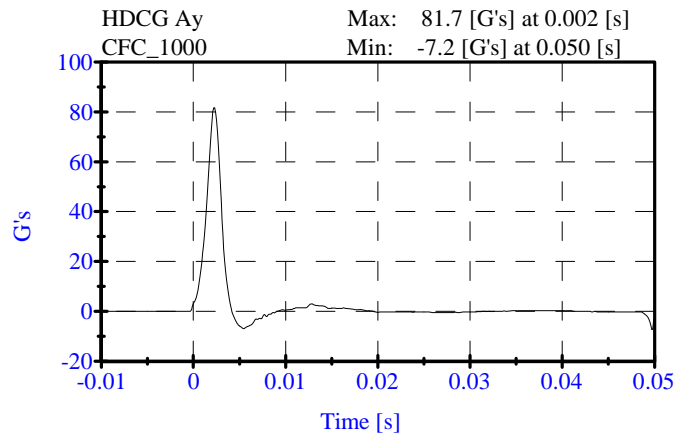
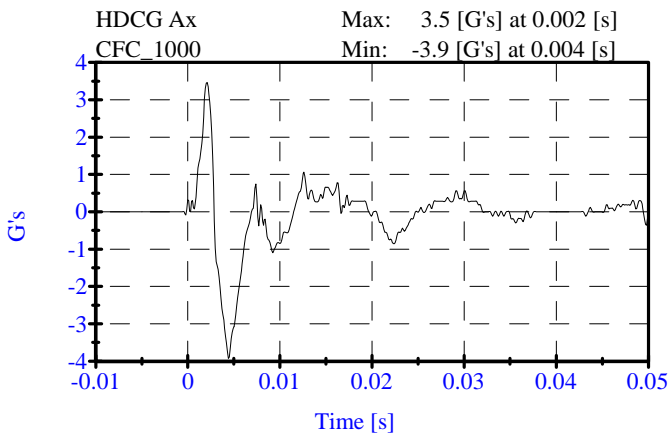
**Head Drop
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: 11-22-06

Sequential Test Number: 1 File: 906HD 11-22-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	36.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	147.08 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	3.46 Gs	Passed
Curve PerCent NonModal:	< 15%	5.41 %	Passed



Neck Test
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: 11-22-06

Sequential Test Number: 1 File: 906N 11-22-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	36.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.98 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.06 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.28 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.23 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	6.99 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	71.76 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	60.50 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	83.06 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	58.10 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	9.90 ms	Passed

Neck Test
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

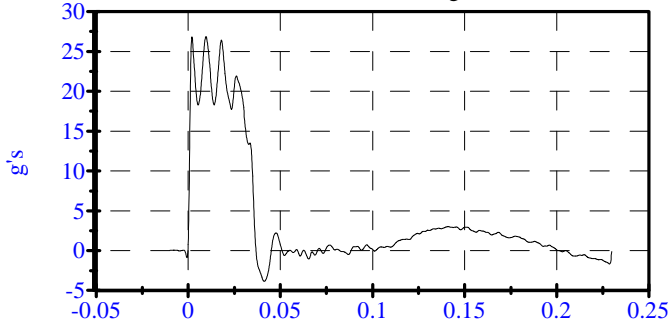
ATD Serial No: 906

Date: 11-22-06

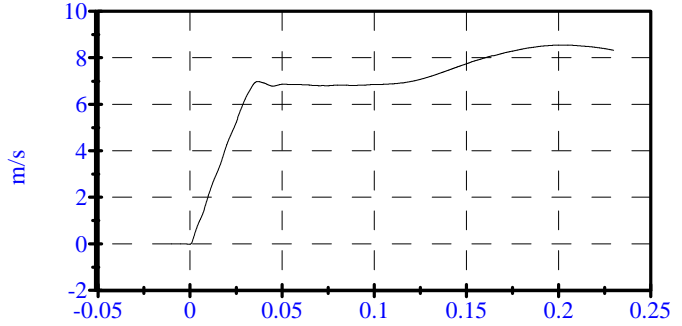
Sequential Test Number: 1 File: 906N 11-22-06

Laboratory Technician: B. Swiecicki

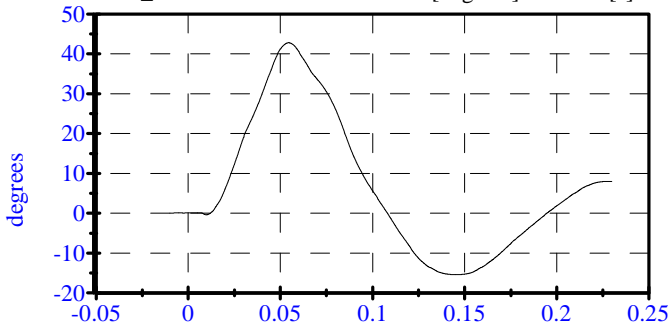
Pend Ax Max: 26.8 [g's] at 0.010 [s]
CFC_180 Min: -3.9 [g's] at 0.041 [s]



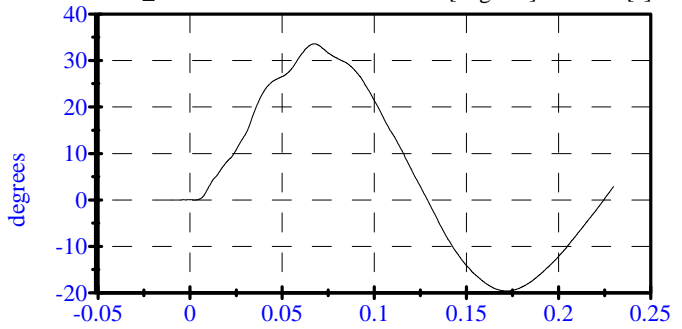
Pend Vx Max: 8.6 [m/s] at 0.200 [s]
CFC_180 Min: -0.0 [m/s] at -0.000 [s]



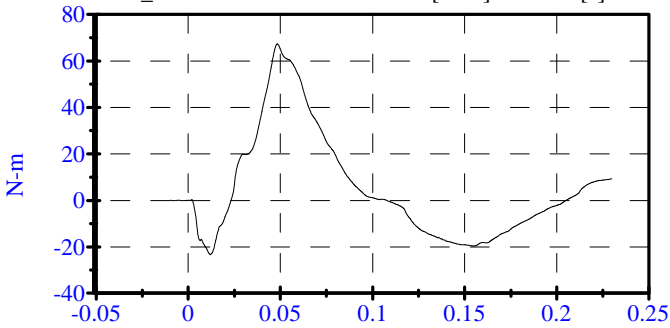
Head Rot Max: 42.8 [degrees] at 0.055 [s]
CFC_180 Min: -15.5 [degrees] at 0.145 [s]



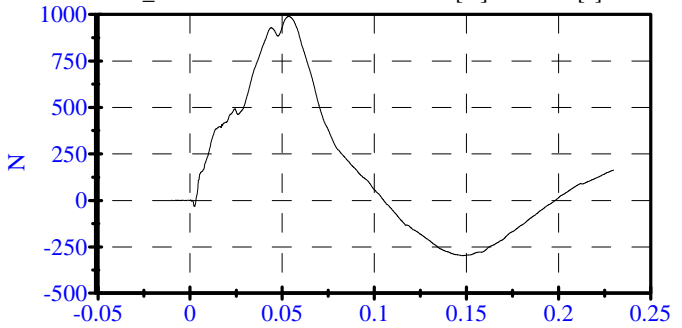
Arm Rot Max: 33.6 [degrees] at 0.068 [s]
CFC_180 Min: -19.6 [degrees] at 0.172 [s]



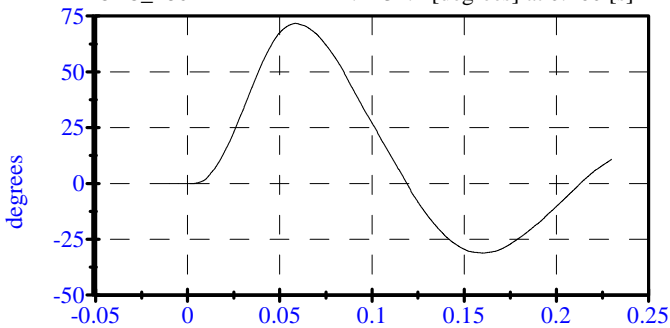
Neck Mx Max: 67.2 [N-m] at 0.048 [s]
CFC_600 Min: -23.3 [N-m] at 0.012 [s]



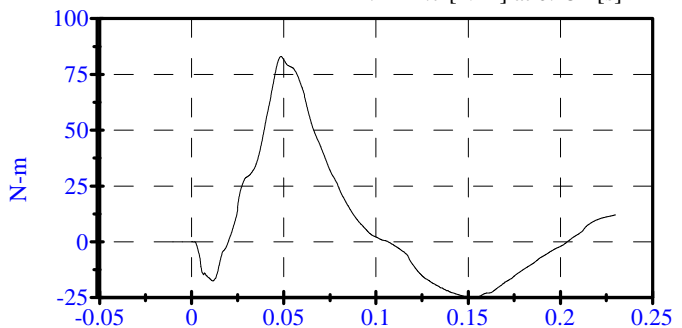
Neck Fy Max: 989.0 [N] at 0.054 [s]
CFC_1000 Min: -296.5 [N] at 0.147 [s]



Tot Rot Max: 71.8 [degrees] at 0.058 [s]
CFC_180 Min: -31.2 [degrees] at 0.160 [s]



Mocx Max: 83.1 [N-m] at 0.049 [s]
Min: -24.7 [N-m] at 0.154 [s]



Abdomen Test

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906

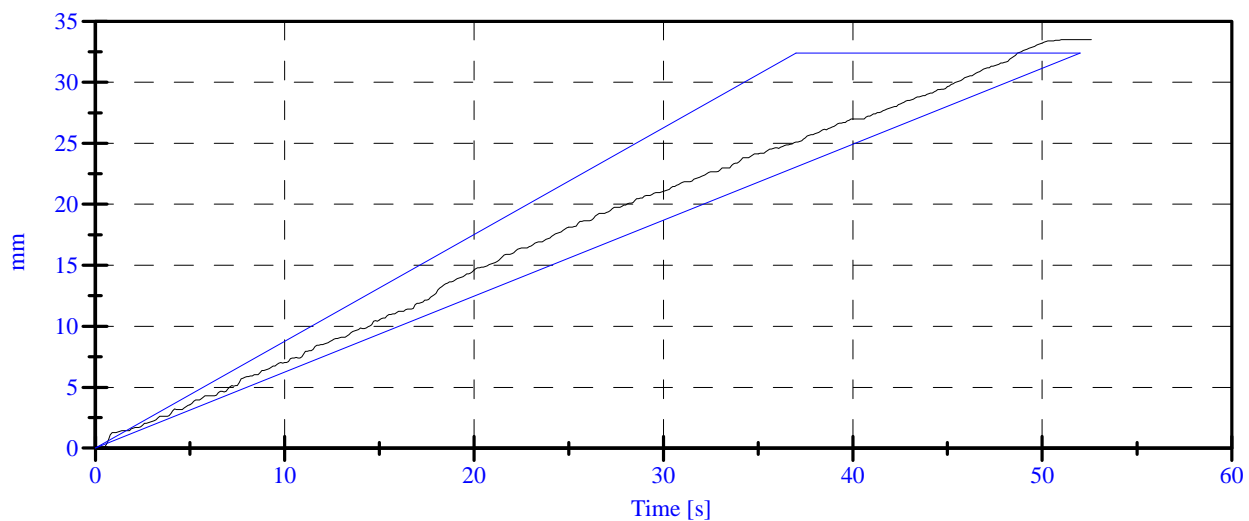
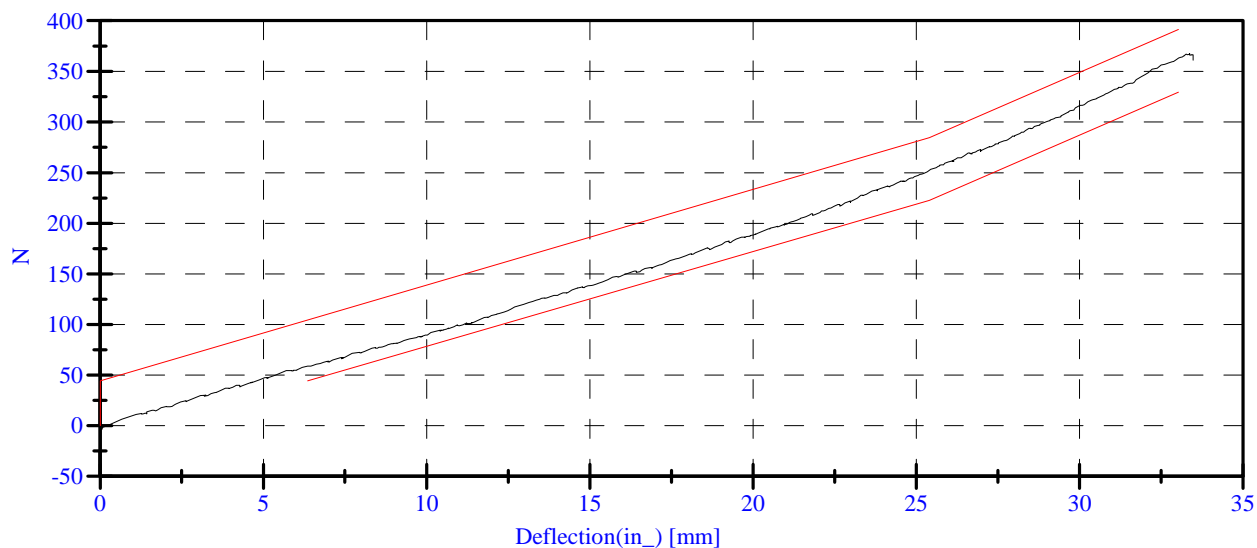
Date: 11-27-06

Sequential Test Number: 1 File: 906AB 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	40.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	120.05 N	Passed
Force at 19.05 mm :	162.98-220.99 N	179.14 N	Passed
Force at 25.40 mm :	221.97-280.02 N	253.45 N	Passed
Force at 33.02 mm :	324.99-391.00 N	363.28 N	Passed

ABDOMINAL COMPRESSION TEST



Lumbar Spine

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906

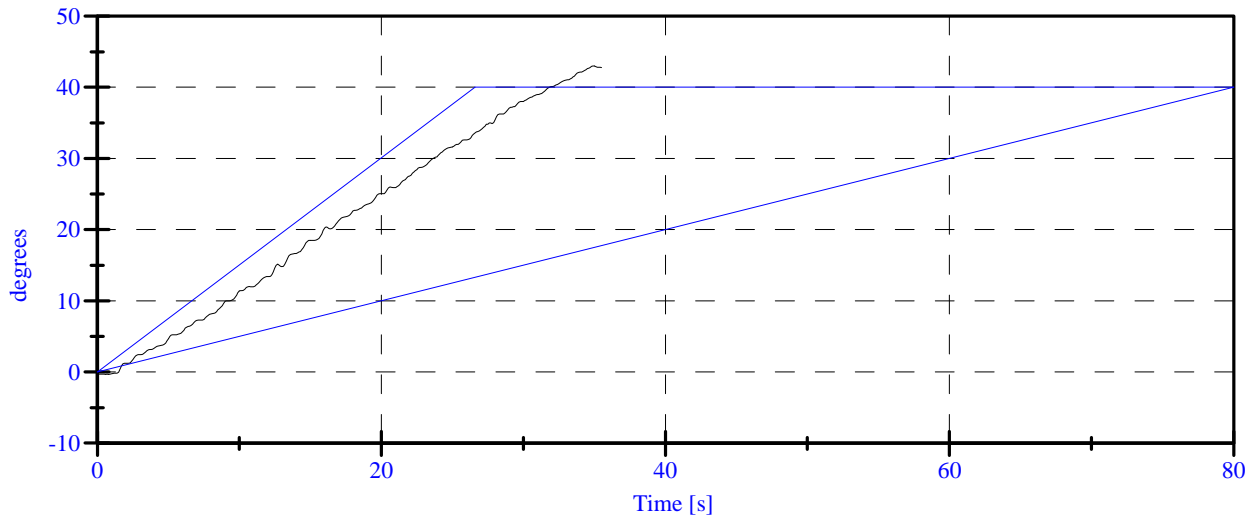
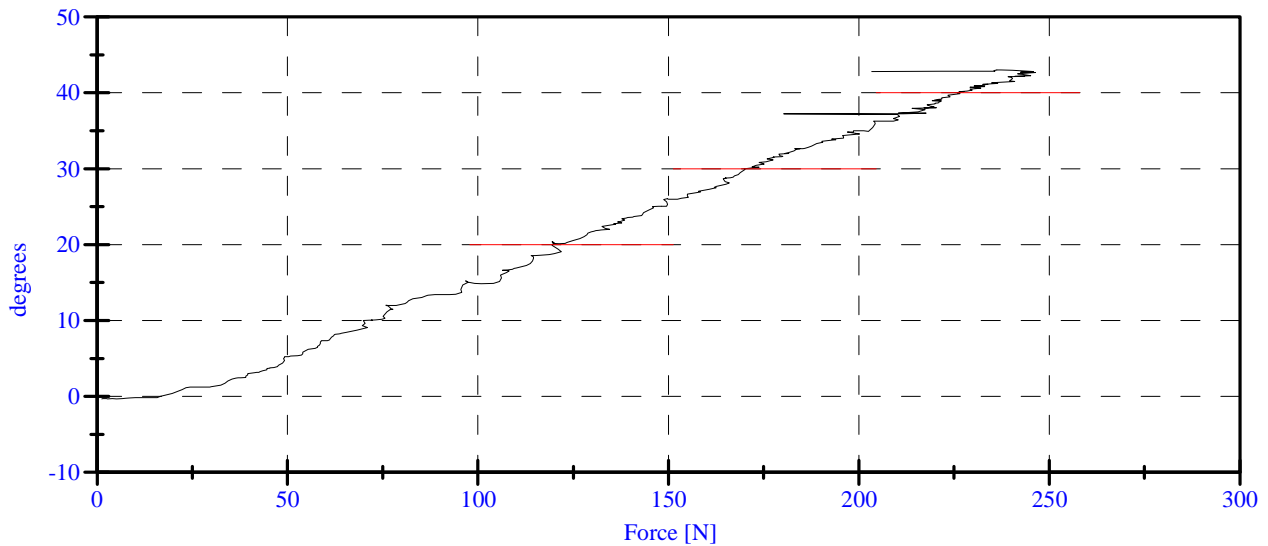
Date: 11-27-06

Sequential Test Number: 1 File: 906SP 11-27-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	40.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	16.59 N	Passed
Force at 20 Deg:	97.86-151.24 N	119.48 N	Passed
Force at 30 Deg:	151.24-204.62 N	169.89 N	Passed
Force at 40 Deg:	204.62-258.00 N	225.77 N	Passed
Return Angle	12 Deg Max	1.60 deg	Passed

LUMBAR SPINE FLEXION TEST



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1.5
 Date: 11/27/2006 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 905

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1.1
Date: December 14, 2006 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1.1
Date: December 14, 2006 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	241
KH- Knee Pivot from Back Line (mm)	511 - 526	521
KV- Knee Pivot to Floor (mm)	490 - 505	493
HW- Hip Width (mm)	356 - 391	378

REMARKS: None

Thorax Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

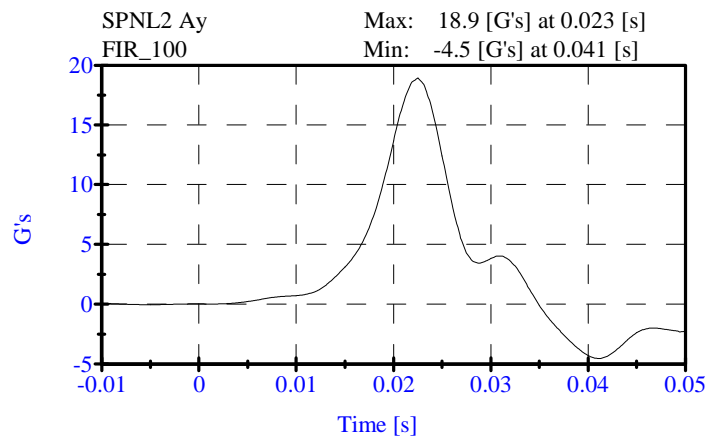
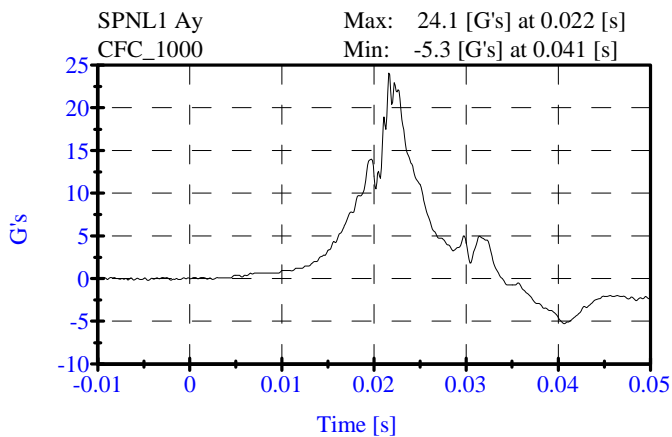
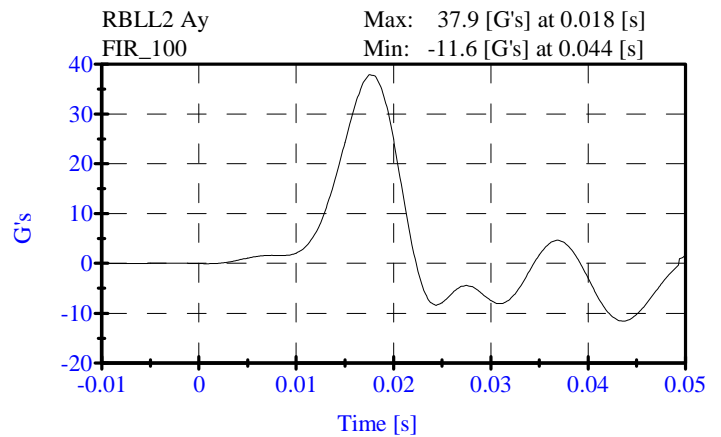
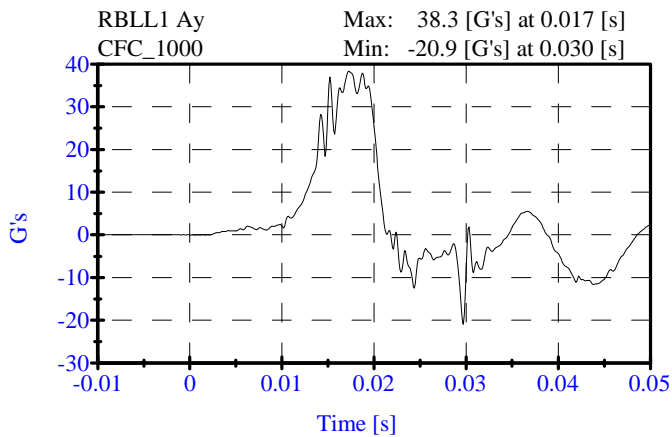
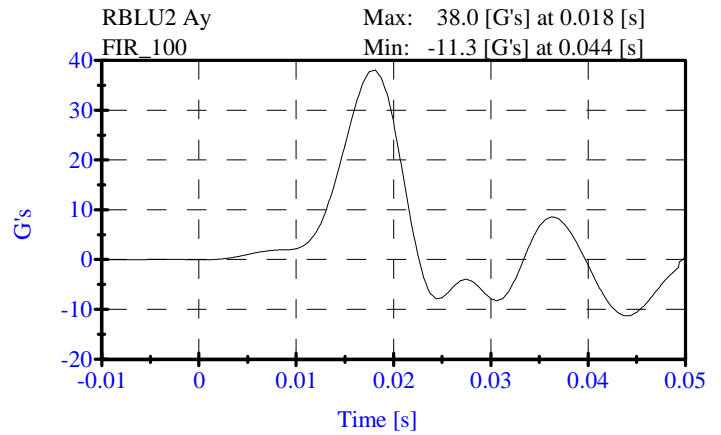
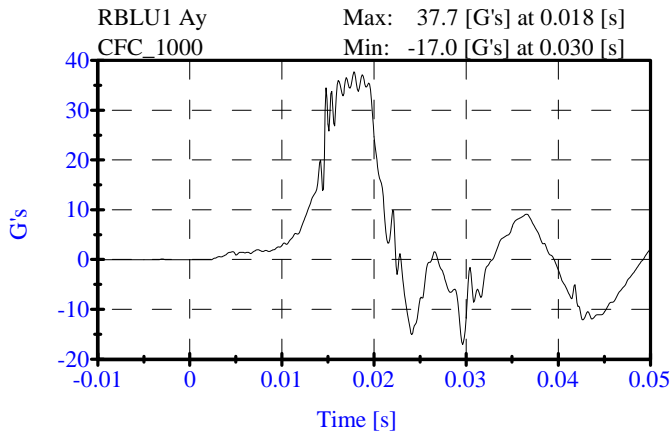
ATD Serial No: 905

Date: 12-14-06

Sequential Test Number: 1 File: 905T 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	38.05 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	37.90 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	18.92 G's	Passed



Pelvic Impact

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

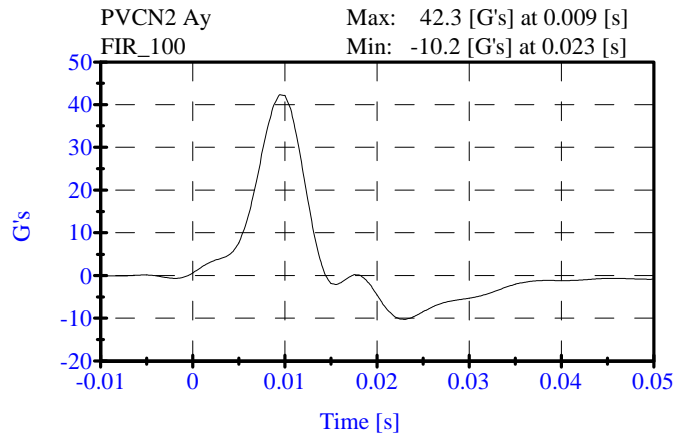
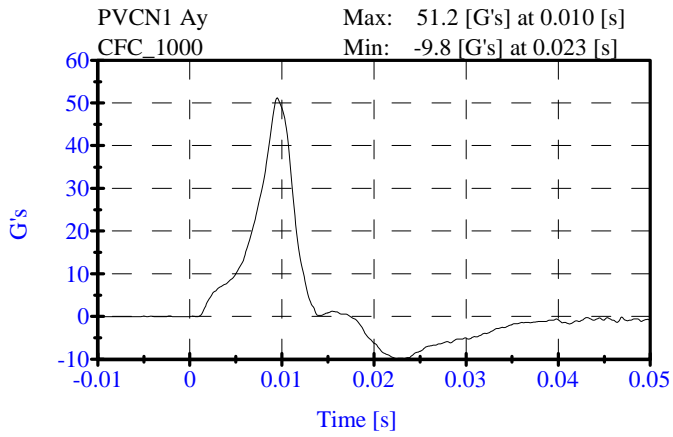
ATD Serial No: 905

Date: 12-14-06

Sequential Test Number: 1 File: 905P2 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.28 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	42.27 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.6 ms	Passed



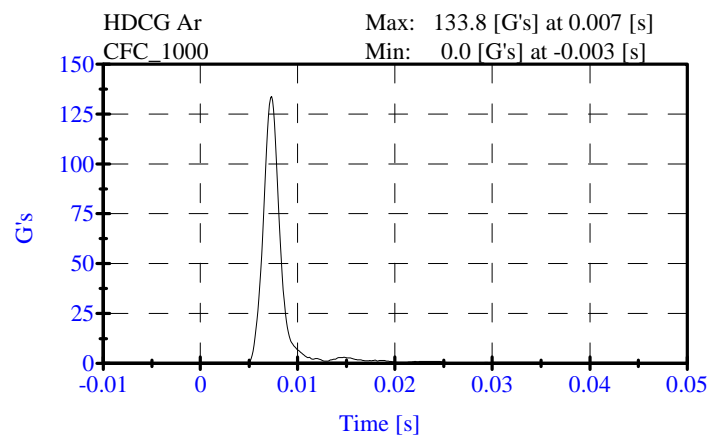
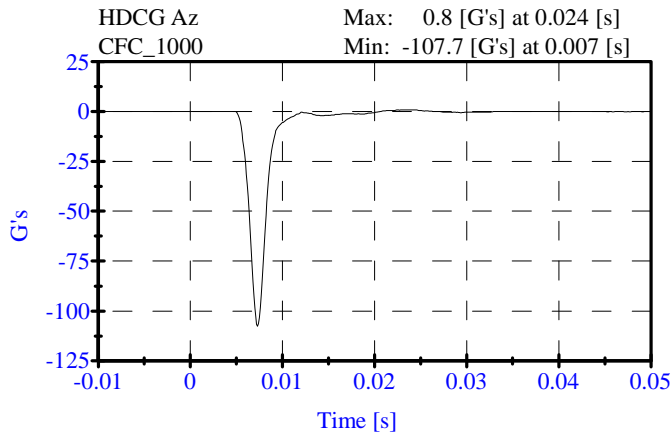
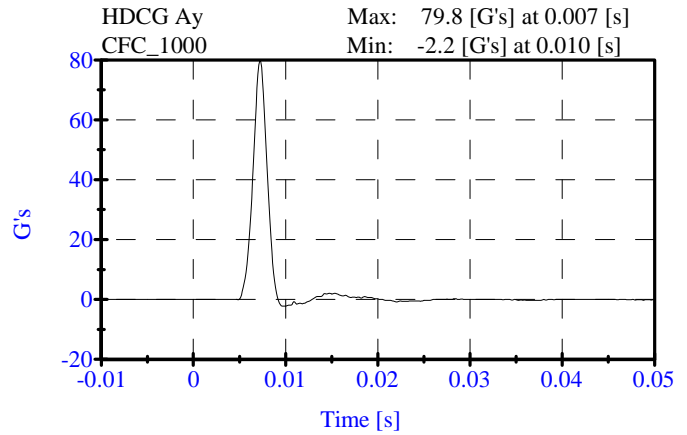
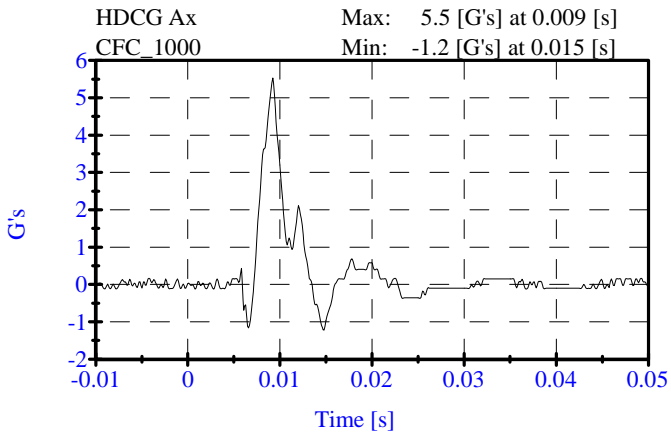
**Head Drop
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: 12-11-06

Sequential Test Number: 1 File: 905H 12-11-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	133.82 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	5.53 Gs	Passed
Curve PerCent NonModal:	< 15%	2.27 %	Passed



Neck Test
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: 12-12-06

Sequential Test Number: 1 File: 905N 12-12-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	31.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.00 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.01 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.22 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.11 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	6.96 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	68.39 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	60.00 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	86.66 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	55.30 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	8.80 ms	Passed

**Neck Test
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

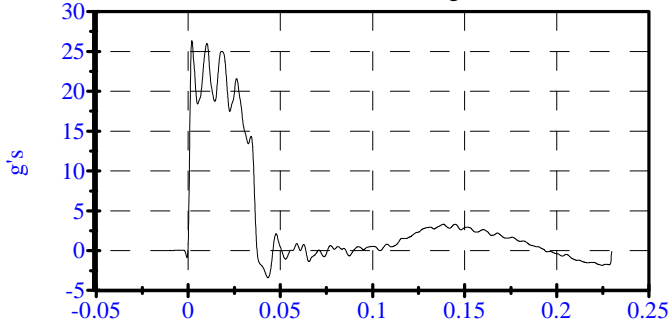
ATD Serial No: 905

Date: 12-12-06

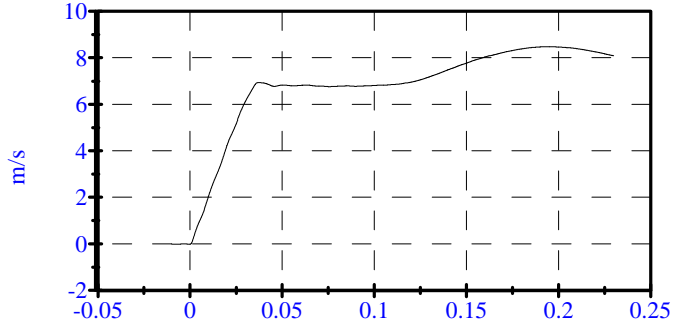
Sequential Test Number: 1 File: 905N 12-12-06

Laboratory Technician: B. Swiecicki

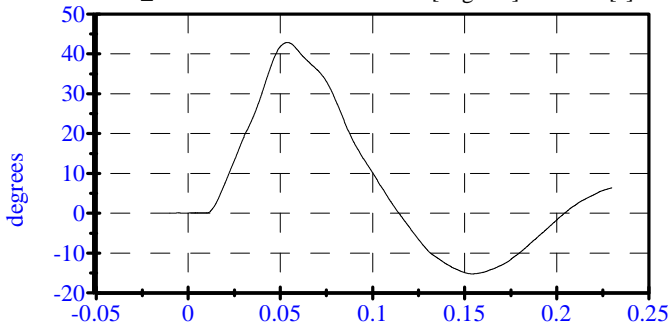
Pend Ax
CFC_180 Max: 26.3 [g's] at 0.002 [s]
 Min: -3.4 [g's] at 0.043 [s]



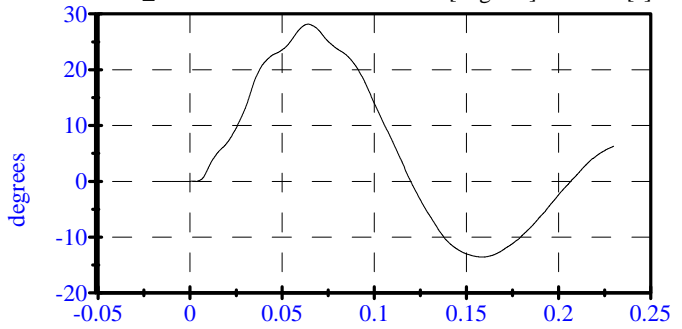
Pend Vx
CFC_180 Max: 8.5 [m/s] at 0.194 [s]
 Min: -0.0 [m/s] at -0.000 [s]



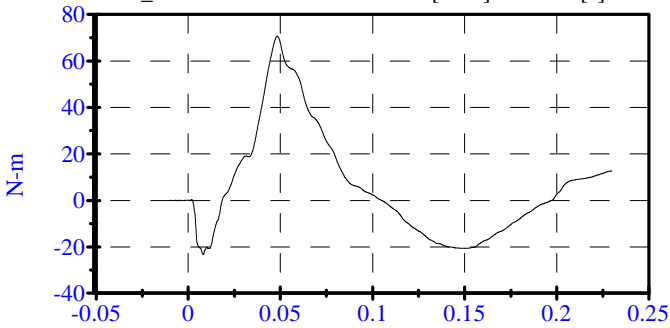
Head Rot
CFC_180 Max: 42.8 [degrees] at 0.054 [s]
 Min: -15.2 [degrees] at 0.154 [s]



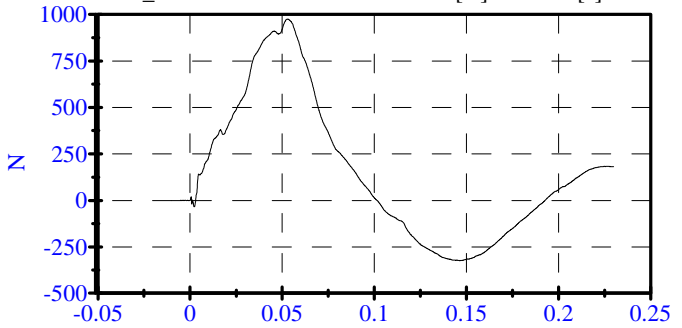
Arm Rot
CFC_180 Max: 28.1 [degrees] at 0.064 [s]
 Min: -13.6 [degrees] at 0.159 [s]



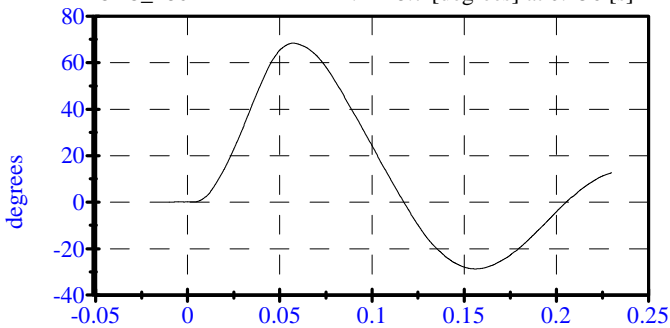
Neck Mx
CFC_600 Max: 70.7 [N-m] at 0.048 [s]
 Min: -23.4 [N-m] at 0.008 [s]



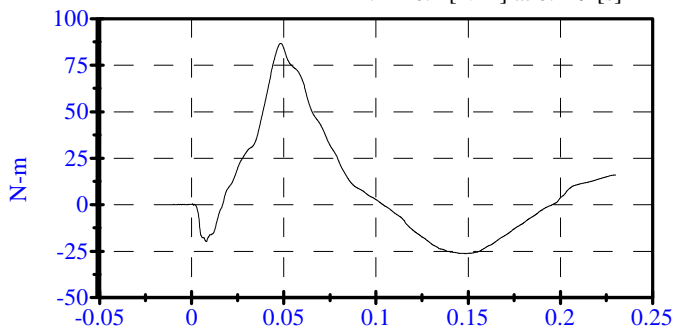
Neck Fy
CFC_1000 Max: 973.7 [N] at 0.053 [s]
 Min: -324.9 [N] at 0.147 [s]



Tot Rot
CFC_180 Max: 68.4 [degrees] at 0.057 [s]
 Min: -28.7 [degrees] at 0.156 [s]



Mocx
 Max: 86.7 [N-m] at 0.048 [s]
 Min: -26.4 [N-m] at 0.149 [s]



Abdomen Test

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905

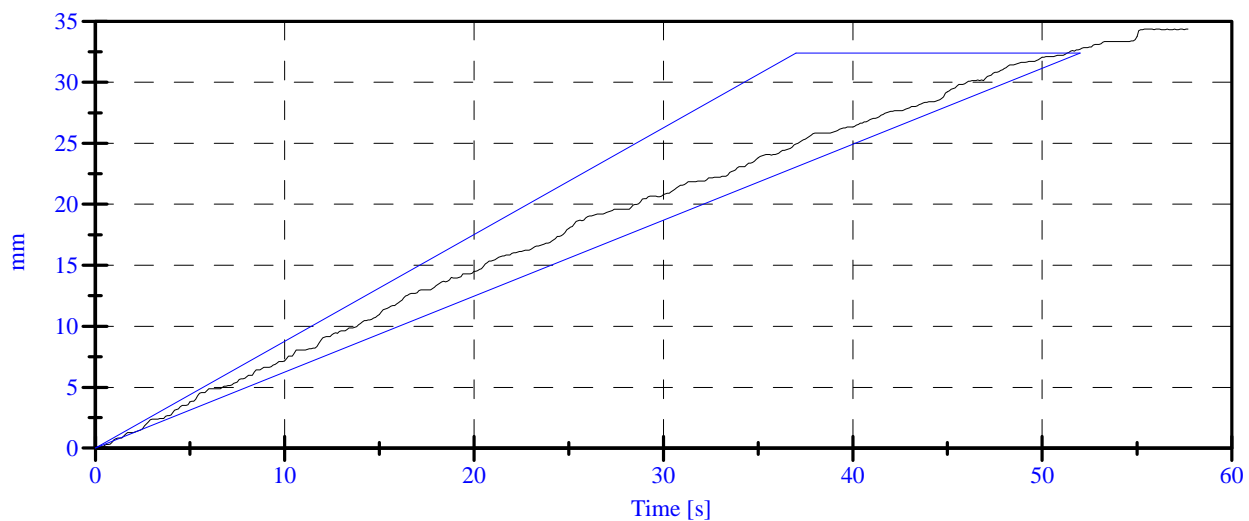
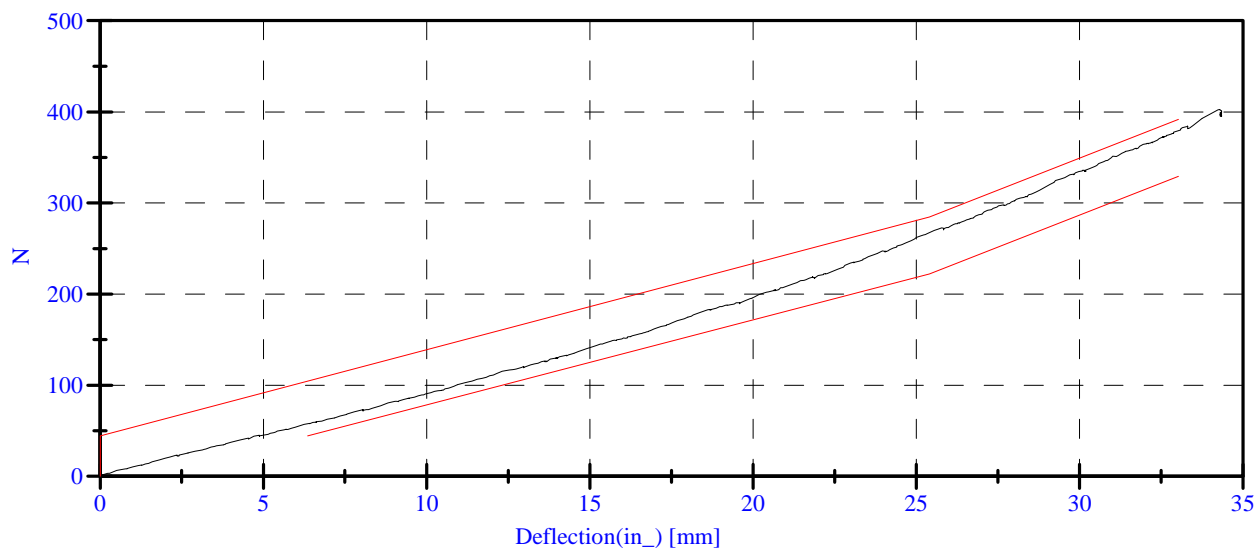
Date: 12-14-06

Sequential Test Number: 1 File: 905AB 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	120.42 N	Passed
Force at 19.05 mm :	162.98-220.99 N	186.39 N	Passed
Force at 25.40 mm :	221.97-280.02 N	267.95 N	Passed
Force at 33.02 mm :	324.99-391.00 N	379.59 N	Passed

ABDOMINAL COMPRESSION TEST



Lumbar Spine

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905

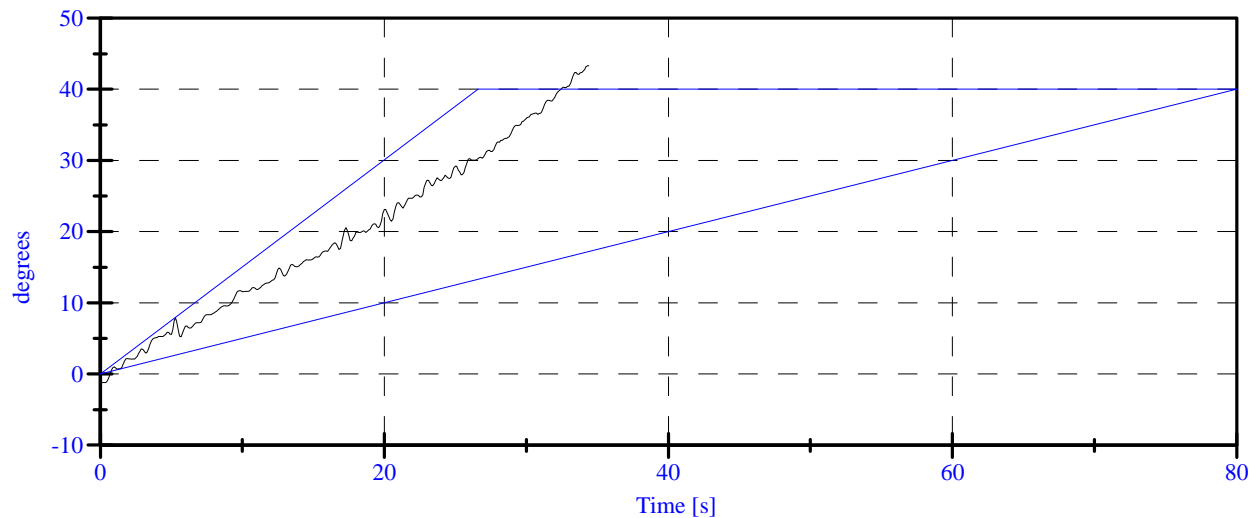
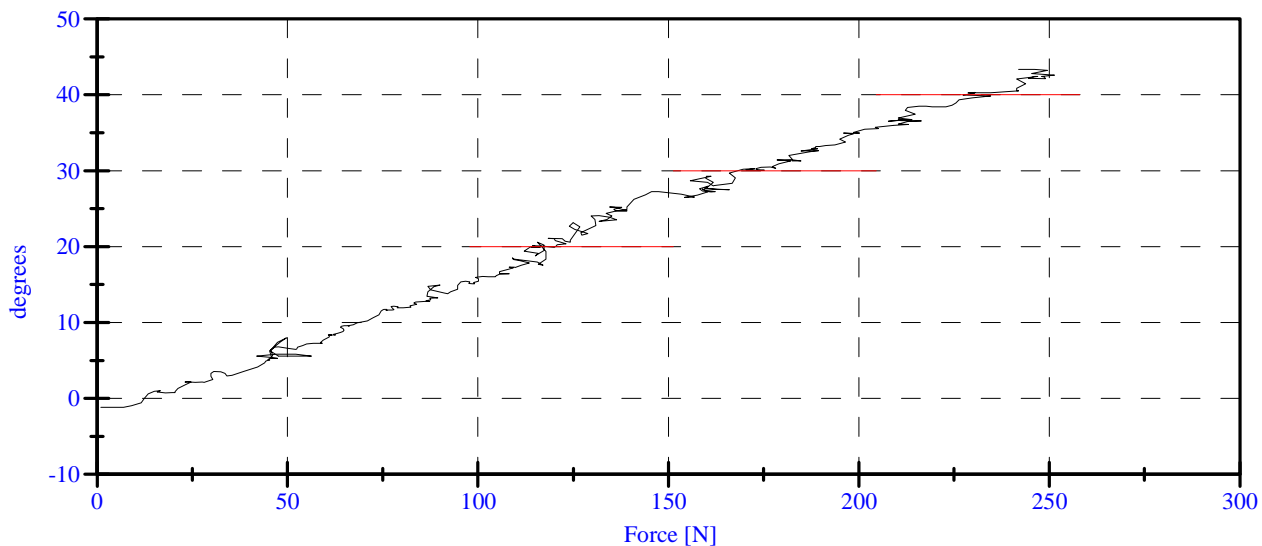
Date: 12-14-06

Sequential Test Number: 1 File: 905SP 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	12.41 N	Passed
Force at 20 Deg:	97.86-151.24 N	115.30 N	Passed
Force at 30 Deg:	151.24-204.62 N	170.93 N	Passed
Force at 40 Deg:	204.62-258.00 N	227.34 N	Passed
Return Angle	12 Deg Max	2.13 deg	Passed

LUMBAR SPINE FLEXION TEST



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1.1
 Date: December 14, 2006 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 906

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1.1
Date: December 14, 2006 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1.1
Date: December 14, 2006 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	904
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	239
KH- Knee Pivot from Back Line (mm)	511 - 526	518
KV- Knee Pivot to Floor (mm)	490 - 505	493
HW- Hip Width (mm)	356 - 391	384

REMARKS: None

Thorax Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

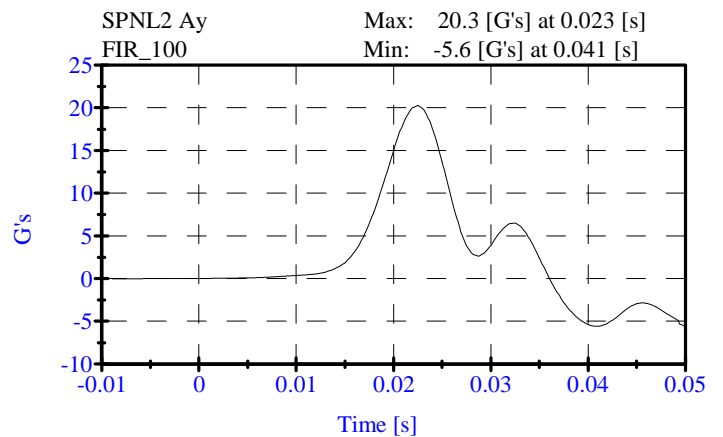
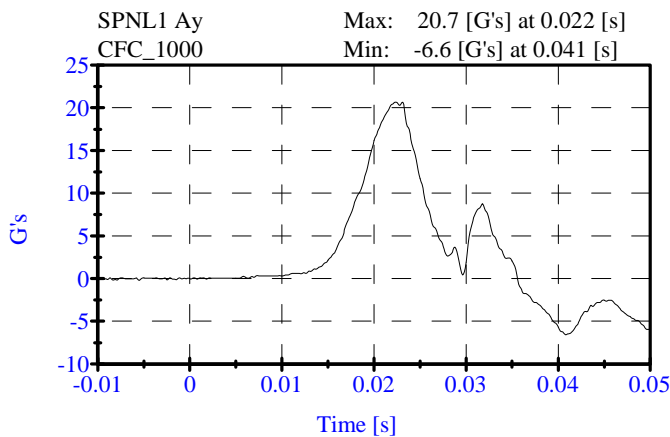
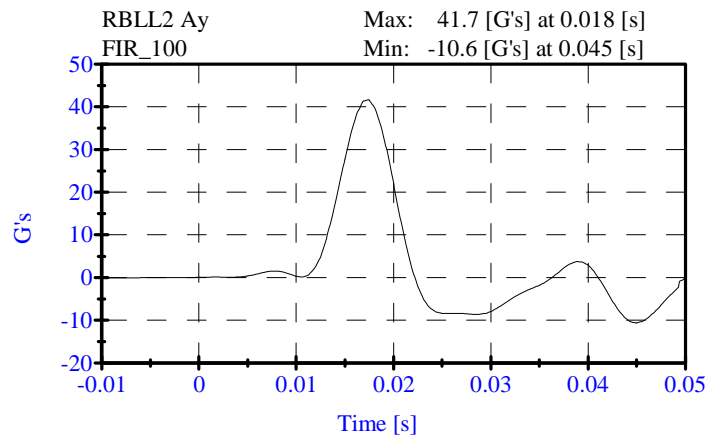
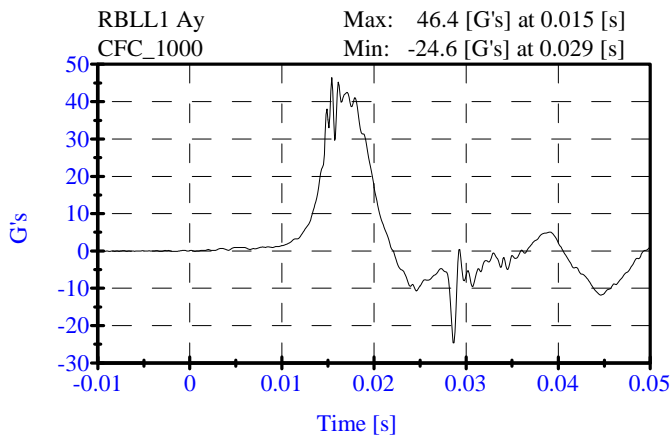
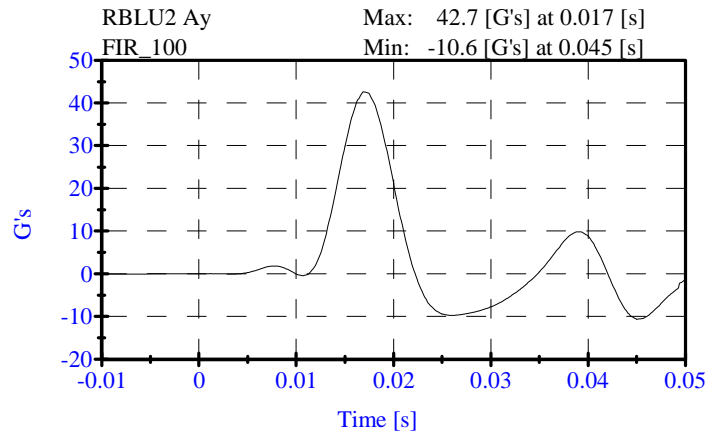
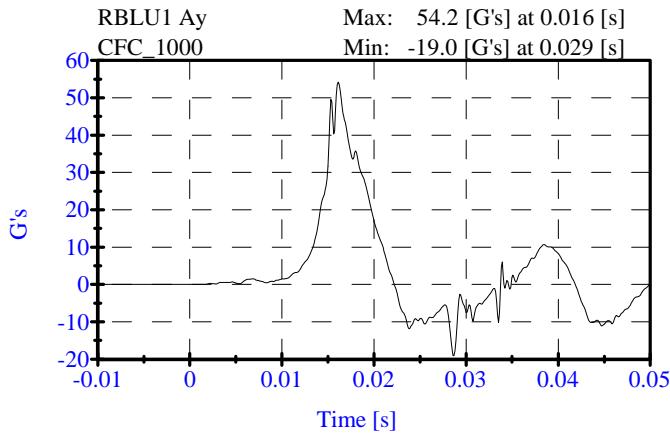
ATD Serial No: 906

Date: 12-14-06

Sequential Test Number: 1 File: 906T 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.31 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	42.66 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	41.67 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	20.29 G's	Passed



Pelvic Impact

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

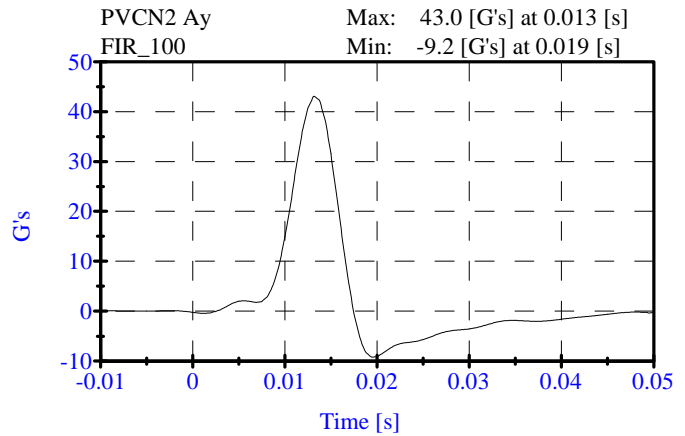
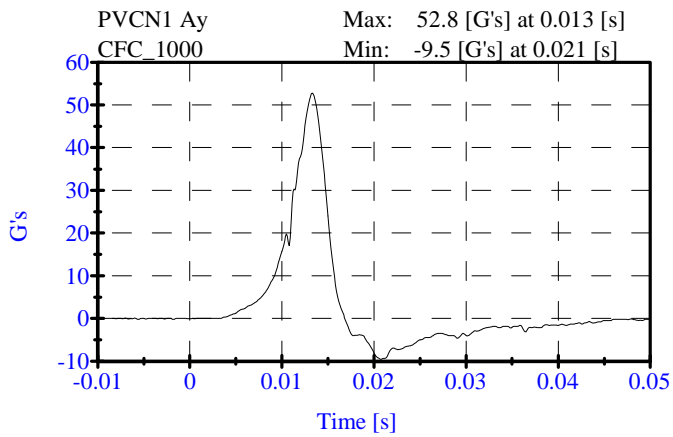
ATD Serial No: 906

Date: 12-14-06

Sequential Test Number: 1 File: 906P 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.29 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	43.05 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.4 ms	Passed



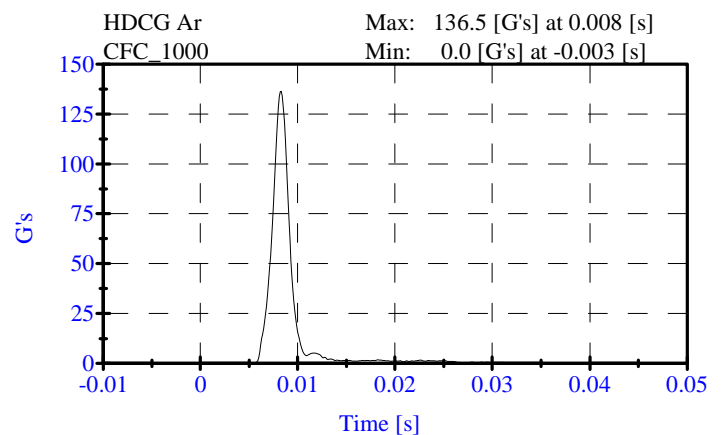
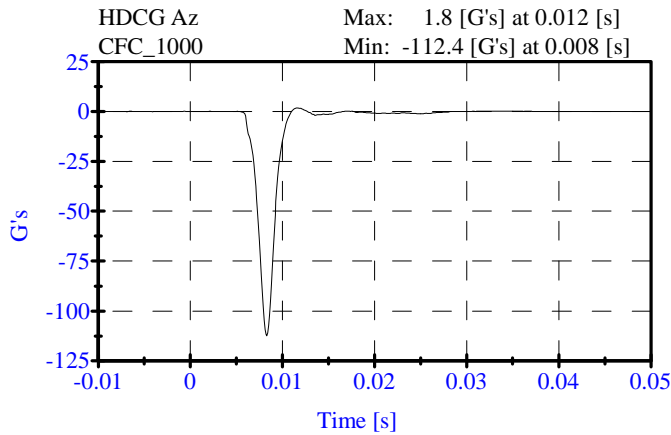
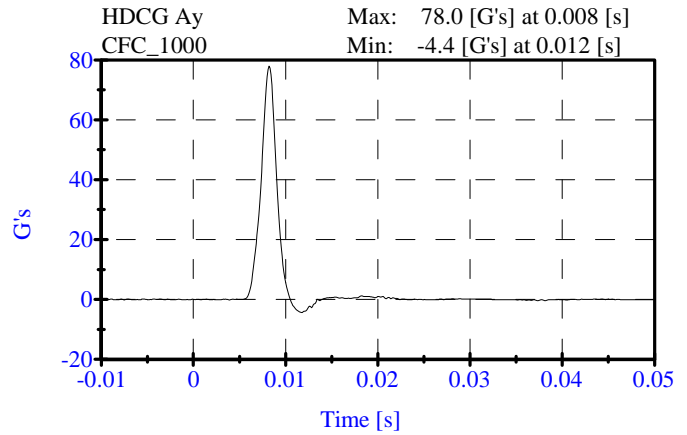
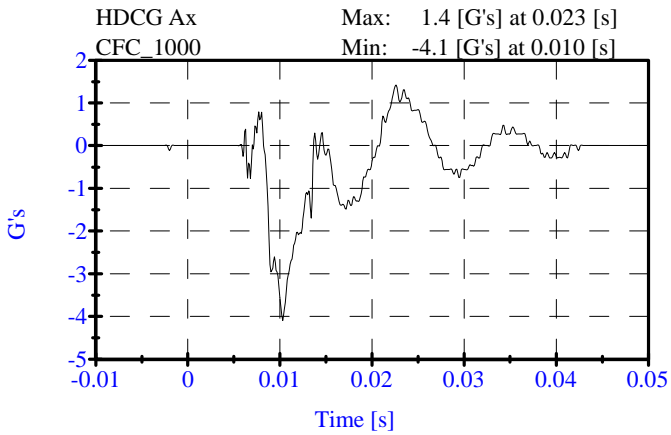
**Head Drop
PRE TEST**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: 12-11-06

Sequential Test Number: 1 File: 906H1 12-11-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	136.47 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	1.43 Gs	Passed
Curve PerCent NonModal:	< 15%	3.83 %	Passed



Neck Test
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: 12-12-06

Sequential Test Number: 1 File: 906N 12-12-06
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	31.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.01 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.15 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.37 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.32 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.08 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	70.10 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	59.10 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	83.86 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	55.40 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	9.00 ms	Passed

Neck Test
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

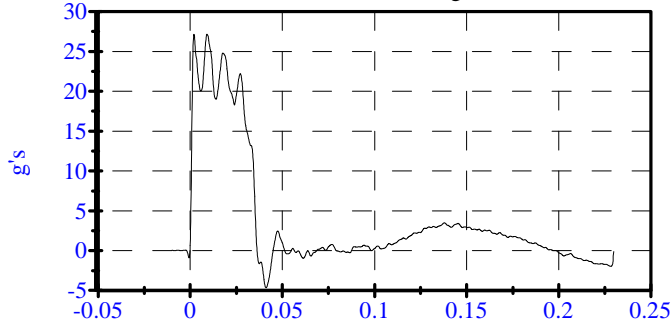
ATD Serial No: 906

Date: 12-12-06

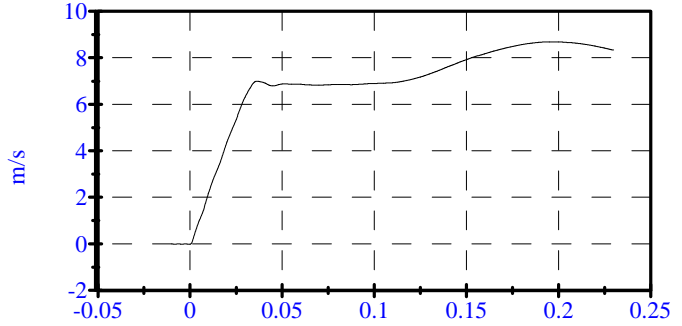
Sequential Test Number: 1 File: 906N 12-12-06

Laboratory Technician: B. Swiecicki

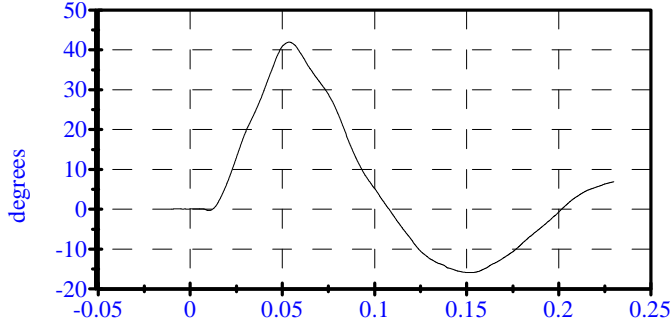
Pend Ax Max: 27.1 [g's] at 0.009 [s]
CFC_180 Min: -4.7 [g's] at 0.041 [s]



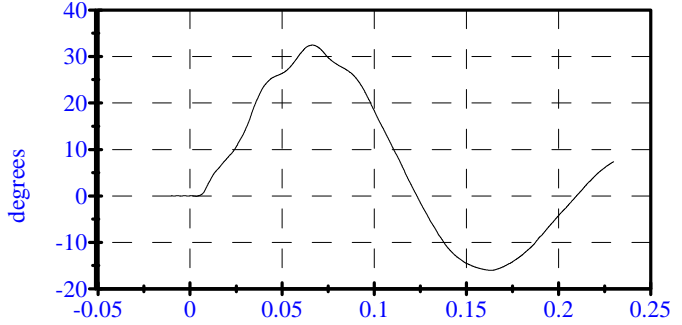
Pend Vx Max: 8.7 [m/s] at 0.197 [s]
CFC_180 Min: -0.0 [m/s] at -0.000 [s]



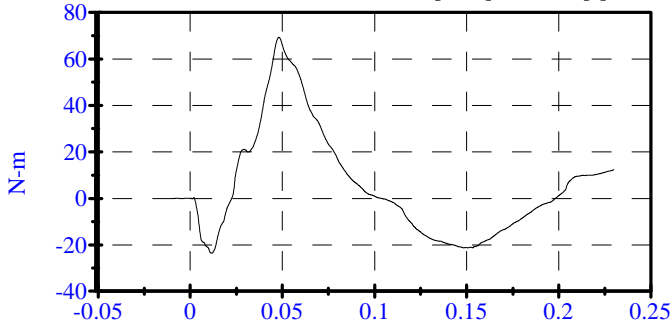
Head Rot Max: 41.9 [degrees] at 0.054 [s]
CFC_180 Min: -15.9 [degrees] at 0.152 [s]



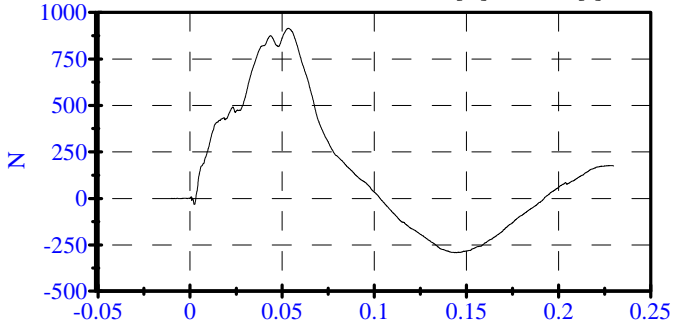
Arm Rot Max: 32.4 [degrees] at 0.067 [s]
CFC_180 Min: -16.0 [degrees] at 0.163 [s]



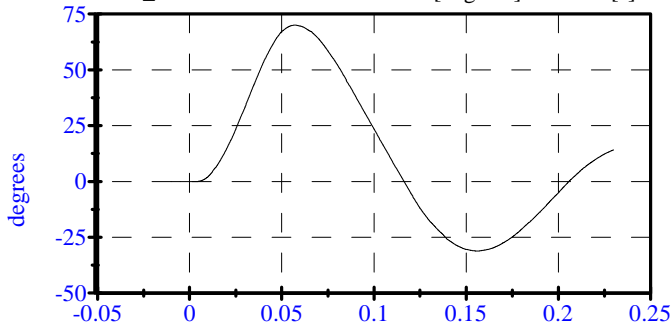
Neck Mx Max: 69.4 [N-m] at 0.048 [s]
CFC_600 Min: -23.6 [N-m] at 0.012 [s]



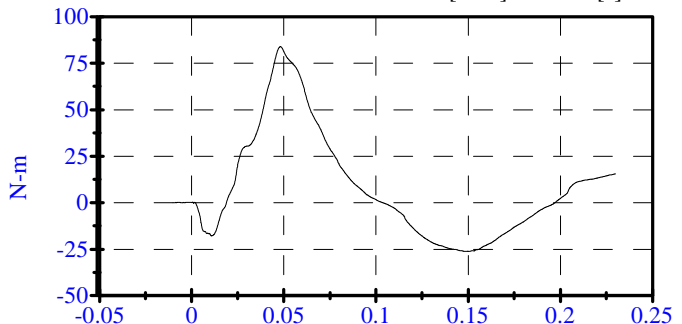
Neck Fy Max: 914.7 [N] at 0.053 [s]
CFC_1000 Min: -291.9 [N] at 0.144 [s]



Tot Rot Max: 70.1 [degrees] at 0.057 [s]
CFC_180 Min: -31.2 [degrees] at 0.156 [s]



Mocx Max: 83.9 [N-m] at 0.048 [s]
Min: -26.3 [N-m] at 0.148 [s]



Abdomen Test

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906

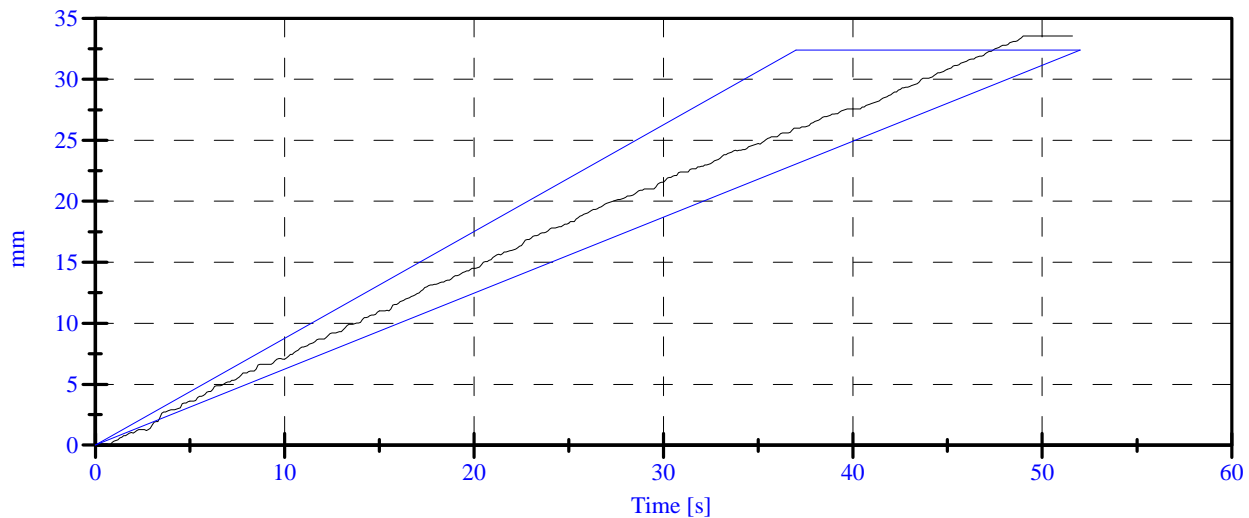
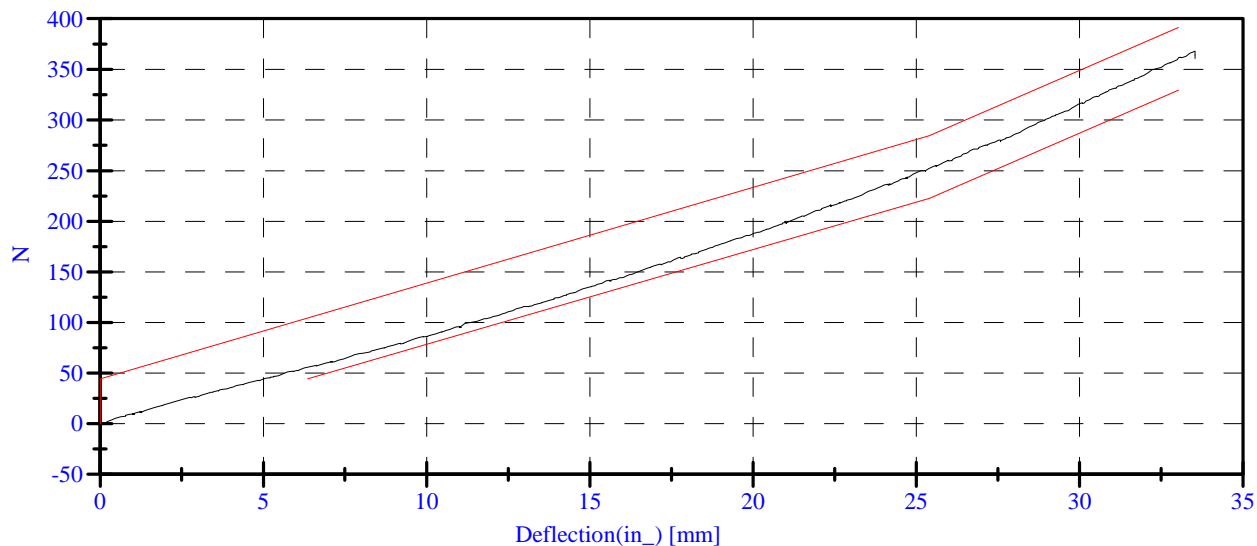
Date: 12-14-06

Sequential Test Number: 1 File: 906AB 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	116.07 N	Passed
Force at 19.05 mm :	162.98-220.99 N	177.69 N	Passed
Force at 25.40 mm :	221.97-280.02 N	252.00 N	Passed
Force at 33.02 mm :	324.99-391.00 N	361.83 N	Passed

ABDOMINAL COMPRESSION TEST



Lumbar Spine

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906

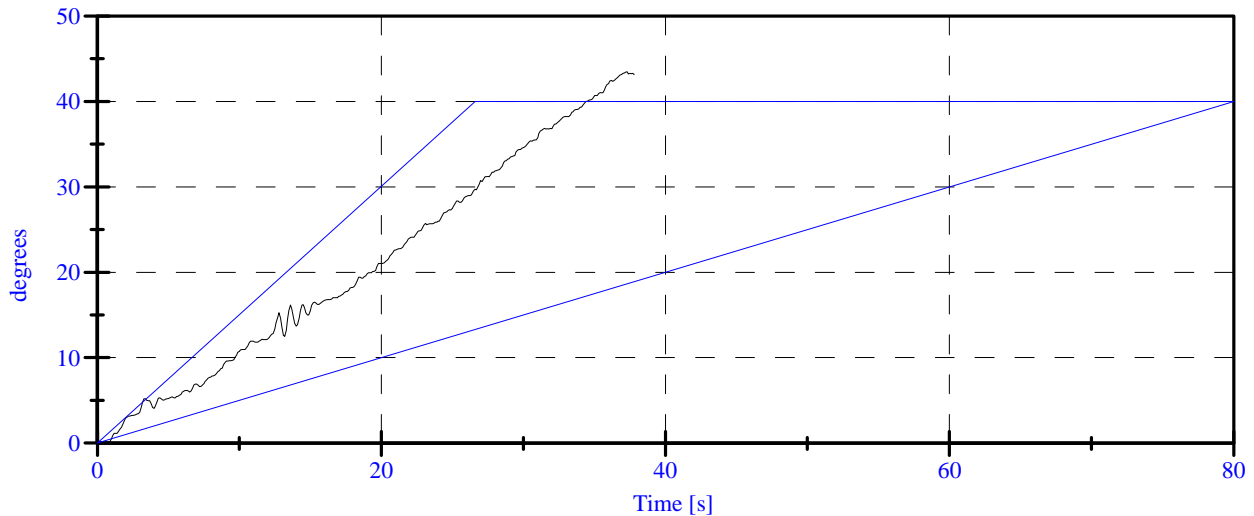
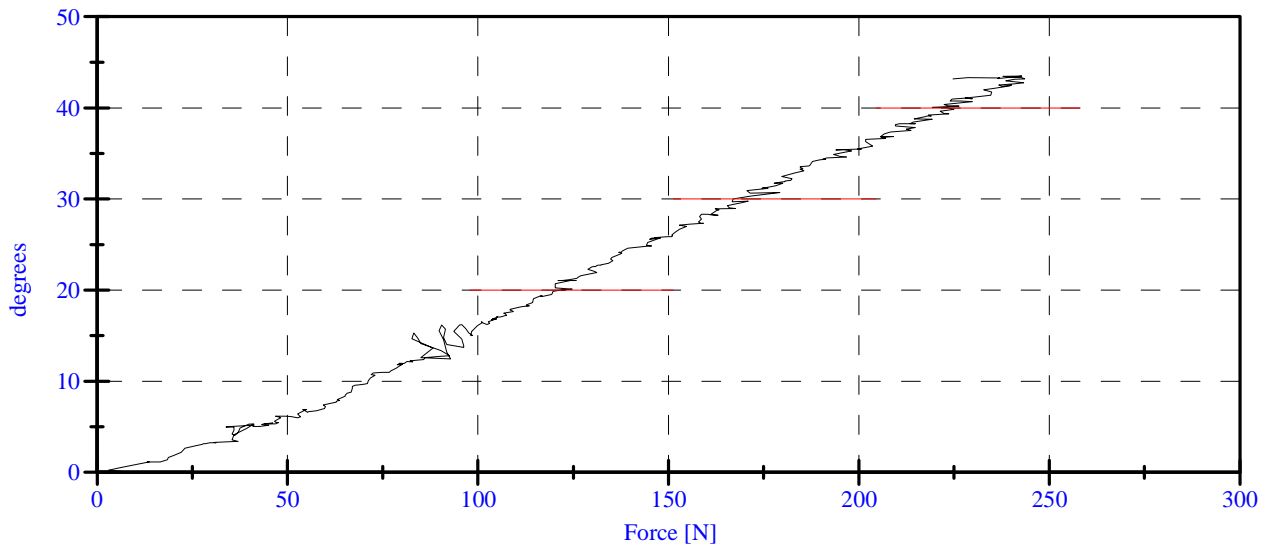
Date: 12-14-06

Sequential Test Number: 1 File: 906SP 12-14-06

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	0.13 N	Passed
Force at 20 Deg:	97.86-151.24 N	121.57 N	Passed
Force at 30 Deg:	151.24-204.62 N	167.01 N	Passed
Force at 40 Deg:	204.62-258.00 N	223.42 N	Passed
Return Angle	12 Deg Max	0.27 deg	Passed

LUMBAR SPINE FLEXION TEST



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

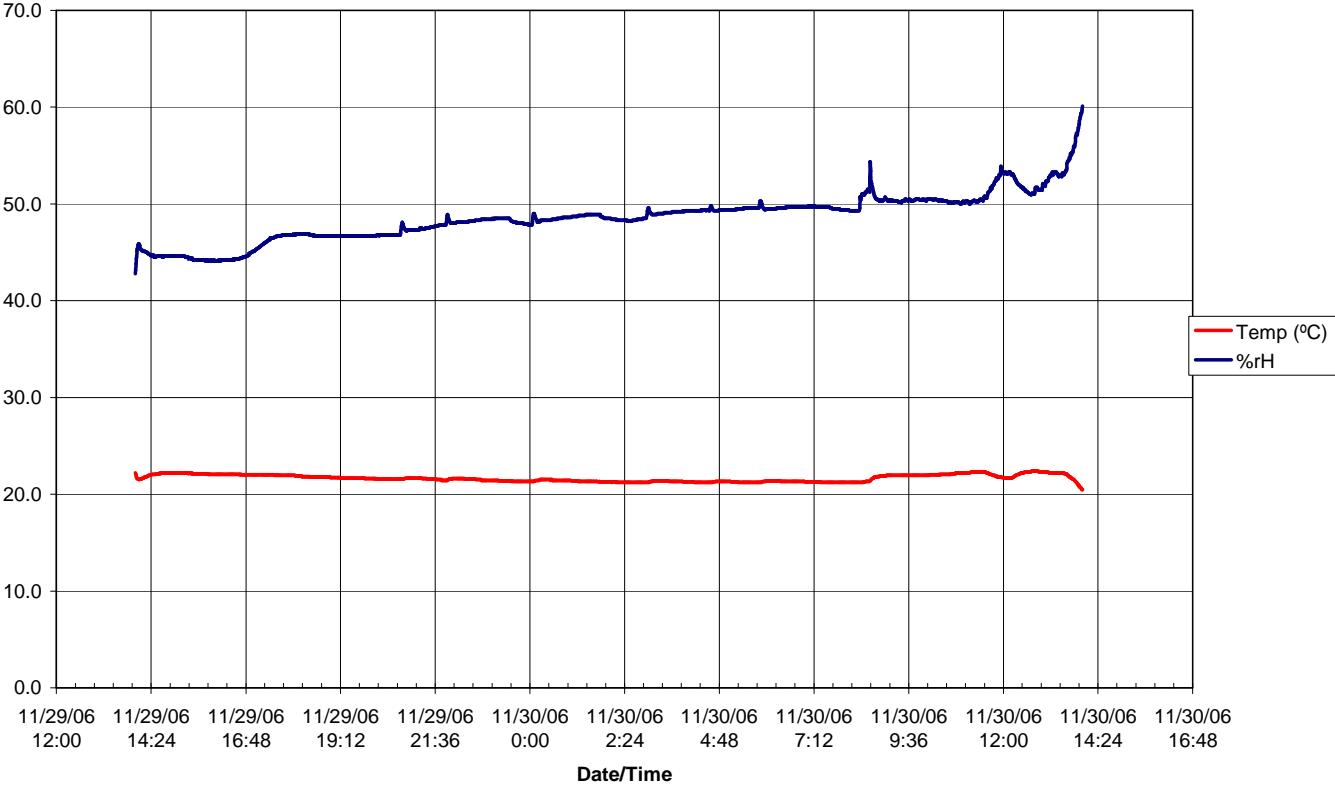
SID H3 Serial No.: 906 Sequential Test Number: 1.1
 Date: December 14, 2006 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

TEMPERATURE TRACE

2007 Chrysler Sebring C70305 Environmental Conditions



APPENDIX D
TEST EQUIPMENT AND CALIBRATION INFORMATION

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

SID/HIII INSTRUMENTATION

FRONT SID/HIII NO.: 905			
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P21373	ENDEVCO	5-Jul-06
HEAD AY	AC-P23128	ENDEVCO	5-Jul-06
HEAD AZ	AC-P21297	ENDEVCO	5-Jul-06
UPPER NECK FX	LC-1626FX	DENTON	6-Jul-06
UPPER NECK FY	LC-1626FY	DENTON	6-Jul-06
UPPER NECK FZ	LC-1626FZ	DENTON	6-Jul-06
UPPER NECK MX	LC-1626MX	DENTON	6-Jul-06
UPPER NECK MY	LC-1626MY	DENTON	6-Jul-06
UPPER NECK MZ	LC-1626MZ	DENTON	6-Jul-06
UPPER RIB	AC-P15736	ENDEVCO	5-Jul-06
LOWER RIB	AC-P16289	ENDEVCO	5-Jul-06
LOWER SPINE	AC-P16761	ENDEVCO	5-Jul-06
PELVIS	AC-P23960	ENDEVCO	5-Jul-06
UPPER RIB REDUNDANT	AC-P16593	ENDEVCO	5-Jul-06
LOWER RIB REDUNDANT	AC-P23142	ENDEVCO	5-Jul-06
LOWER SPINE REDUNDANT	AC-P21516	ENDEVCO	5-Jul-06
PELVIS REDUNDANT	AC-P32221	ENDEVCO	5-Jul-06

REAR SID/HIII NO.: 906			
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P35764	ENDEVCO	6-Jul-06
HEAD AY	AC-P39736	ENDEVCO	6-Jul-06
HEAD AZ	AC-P39729	ENDEVCO	6-Jul-06
UPPER NECK FX	LC-798FX	DENTON	6-Jul-06
UPPER NECK FY	LC-798FY	DENTON	6-Jul-06
UPPER NECK FZ	LC-798FZ	DENTON	6-Jul-06
UPPER NECK MX	LC-798MX	DENTON	6-Jul-06
UPPER NECK MY	LC-798MY	DENTON	6-Jul-06
UPPER NECK MZ	LC-798MZ	DENTON	6-Jul-06
UPPER RIB	AC-P16862	ENDEVCO	6-Jul-06
LOWER RIB	AC-P16866	ENDEVCO	6-Jul-06
LOWER SPINE	AC-P16645	ENDEVCO	6-Jul-06
PELVIS	AC-P23139	ENDEVCO	6-Jul-06
UPPER RIB REDUNDANT	AC-P23156	ENDEVCO	6-Jul-06
LOWER RIB REDUNDANT	AC-P16656	ENDEVCO	6-Jul-06
LOWER SPINE REDUNDANT	AC-P19343	ENDEVCO	6-Jul-06
PELVIS REDUNDANT	AC-P17539	ENDEVCO	6-Jul-06

REMARKS: None

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

VEHICLE AND MDB INSTRUMENTATION

	VEHICLE AND MDB INSTRUMENTS		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
RIGHT FRONT SILL (X)	AC-P15534	ENDEVCO	14-Jun-06
RIGHT FRONT SILL (Y)	AC-P18718	ENDEVCO	5-Jul-06
RIGHT FRONT SILL (Z)	AC-P18628	ENDEVCO	6-Jul-06
RIGHT REAR SILL (X)	AC-P23939	ENDEVCO	19-Jul-06
RIGHT REAR SILL (Y)	AC-P23999	ENDEVCO	19-Jul-06
RIGHT REAR SILL (Z)	AC-P23993	ENDEVCO	19-Jul-06
REAR FLOORPAN ABOVE AXLE (X)	AC-P16625	ENDEVCO	18-Jul-06
REAR FLOORPAN ABOVE AXLE (Y)	AC-P17237	ENDEVCO	5-Jul-06
REAR FLOORPAN ABOVE AXLE (Z)	AC-J32838	ENDEVCO	7-Jul-06
LEFT REAR SILL (Y)	AC-P19374	ENDEVCO	5-Jul-06
LEFT FRONT SILL (Y)	AC-P35804	ENDEVCO	18-Jul-06
LEFT FRONT DOOR CENTERLINE (Y)	-	-	-
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-P39743	ENDEVCO	18-Jul-06
MID REAR OF LEFT FRONT DOOR (Y)	-	-	-
LEFT FRONT DOOR UPPER C/L (Y)	-	-	-
MID REAR OF LEFT REAR DOOR (Y)	-	-	-
LEFT REAR DOOR UPPER C/L (Y)	-	-	-
LOWER LEFT B- PILLAR (Y)	AC-P23136	ENDEVCO	5-Jul-06
MIDDLE LEFT B-PILLAR (Y)	AC-P35758	ENDEVCO	18-Jul-06
LOWER LEFT A-PILLAR (Y)	AC-P16832	ENDEVCO	18-Jul-06
UPPER LEFT A-PILLAR (Y)	AC-P19216	ENDEVCO	14-Jun-06
FRONT SEAT TRACK (Y)	AC-P26266	ENDEVCO	7-Aug-06
REAR SEAT TRACK (Y)	AC-P13323	ENDEVCO	5-Jul-06
VEHICLE CG (X)	AC-P23174	ENDEVCO	28-Jun-06
VEHICLE CG (Y)	AC-J31101	ENDEVCO	5-Jul-06
VEHICLE CG (Z)	AC-J31059	ENDEVCO	5-Jul-06
MDB CG (X)	AC-C15007	ENDEVCO	5-Nov-06
MDB CG (Y)	AC-C16416	ENDEVCO	27-Jun-06
MDB CG (Z)	AC-C16499	ENDEVCO	27-Jun-06
MDB REAR FRAME MEMBER (X)	AC-C14948	ENDEVCO	27-Jun-06
MDB REAR FRAME MEMBER (Y)	AC-C16680	ENDEVCO	27-Jun-06

REMARKS: None