

REPORT NUMBER: 214-CAL-06-05

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

**DAIMLERCHRYSLER CORPORATION
2007 DODGE CALIBER
FIVE DOOR HATCH BACK**

NHTSA NUMBER: C70301

**PREPARED BY:
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Test Date: June 29, 2006

FINAL REPORT

**PREPARED FOR:
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NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
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Technical Report Documentation Page

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16. Abstract A 55/28 km/h 90° Moving Deformable Barrier FMVSS 214 Indicant side impact was conducted on the subject 2007 Dodge Caliber Five Door Hatch Back 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 June 29, 2006. The impact velocity of the Moving Deformable Barrier (MDB) was 61.80 km/h, and the ambient temperature at the struck side (driver side) of the vehicle was 20°C. The target vehicle's maximum post test static crush was 191 mm at level 3. The test vehicle's occupant performance is as follows: <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th></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;">30.56</td> <td style="text-align: center;">50.26</td> </tr> <tr> <td>Left Lower Rib (LLR) Accel., g</td> <td style="text-align: center;">31.74</td> <td style="text-align: center;">50.82</td> </tr> <tr> <td>Lower Spine (T₁₂) Accel., g</td> <td style="text-align: center;">49.09</td> <td style="text-align: center;">64.01</td> </tr> <tr> <td>Thoracic Trauma Index (TTI)</td> <td style="text-align: center;">40</td> <td style="text-align: center;">57</td> </tr> <tr> <td>Pelvis (PEV) Accel., g</td> <td style="text-align: center;">50.54</td> <td style="text-align: center;">61.13</td> </tr> <tr> <td>HIC</td> <td style="text-align: center;">156.0</td> <td style="text-align: center;">309.0</td> </tr> </tbody> </table> 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.					<u>DRIVER</u>	<u>PASS.</u>	Left Upper Rib (LUR) Accel., g	30.56	50.26	Left Lower Rib (LLR) Accel., g	31.74	50.82	Lower Spine (T ₁₂) Accel., g	49.09	64.01	Thoracic Trauma Index (TTI)	40	57	Pelvis (PEV) Accel., g	50.54	61.13	HIC	156.0	309.0
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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 Dodge Caliber Five Door Hatch Back 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 Dodge Caliber Five Door Hatch Back 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 61.80 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 1584.0 kg and the test weight of the MDB was 1362.5 kg. The test was conducted at the Calspan Corporation Transportation Sciences Center on June 29, 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/HIIIs) 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 191 mm at level 3, 1650 mm rearward of the left vertical impact point. The driver and passenger SID/HIII's, Serial Nos. 269 and 270 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	156.0	38.2	67.7	40	51
Passenger	309.0	43.5	66.0	57	61

SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver)		Left Rear (Passenger)	
	Installed	Deployed	Installed	Deployed
Front Airbag	Yes	No	NA	NA
Side Torso Airbag	No	NA	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 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006

TEST VEHICLE INFORMATION AND VEHICLE OPTIONS

Make	DaimlerChrysler Corporation	Driver Front Airbag	Yes
Model	Caliber	Driver Side Curtain Airbag	Yes
Body Style	Five Door Hatch Back	Driver Side Torso Airbag	No
NHTSA No.	C70301	Driver Pretensioners	Yes
VIN	1B3HB48C97D525176	Driver Load Limiters	Yes
Color	Black	Driver Power Seats	No
Engine Disp.(L)	1.8	Rear Pass. Side Curtain Airbag	Yes
Engine Cylinders	4	Rear Pass. Side Torso Airbag	No
Engine Placement	Lateral	Rear Pass. Pretensioners	No
Transmission Type	Manual	Rear Pass. Load Limiters	No
Transmission Speeds	5	Rear Pass. Power Seats	NA
Final Drive	Front	Tilt Wheel	Yes
Air Conditioning	Yes	Anti-lock Brakes	No
Power Steering	Yes	Traction Control	No
Power Brakes	Yes	Power Windows	Yes
Delivery Date	June 14, 2006	Power Door Locks	Yes
Odometer Reading (km)	37	Automatic Door Locks (ADL)	Yes
Dealer	Northtown Dodge, Inc.	Owner's Manual Details Instructions on Disabling ADLs	Yes

DATA FROM CERTIFICATION LABEL

Manufactured By	DaimlerChrysler Corporation	GVWR (kg)	2012
Date of Manufacture	05/06	GAWR Front (kg)	1080
		GAWR Rear (kg)	998

VEHICLE CAPACITY DATA

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Contoured 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 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 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	391.0	304.0		444.0	398.0		448.0	382.5	
Right	kg	404.0	279.0		404.0	349.0		402.0	351.5	
Ratio	%	57.7	42.3		53.2	46.8		53.7	46.3	
Totals	kg	795.0	583.0	1378.0	848.0	747.0	1595.0	850.0	734.0	1584.0

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1378
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	1592.2

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

Weight of Ballast (including instrumentation package and cameras): 43.6 kg

TEST VEHICLE ATTITUDES

	Units	LF	RF	LR	RR
As Delivered	mm	769	772	769	776
Fully Loaded	mm	750	733	758	744
As Tested	mm	751	737	760	745

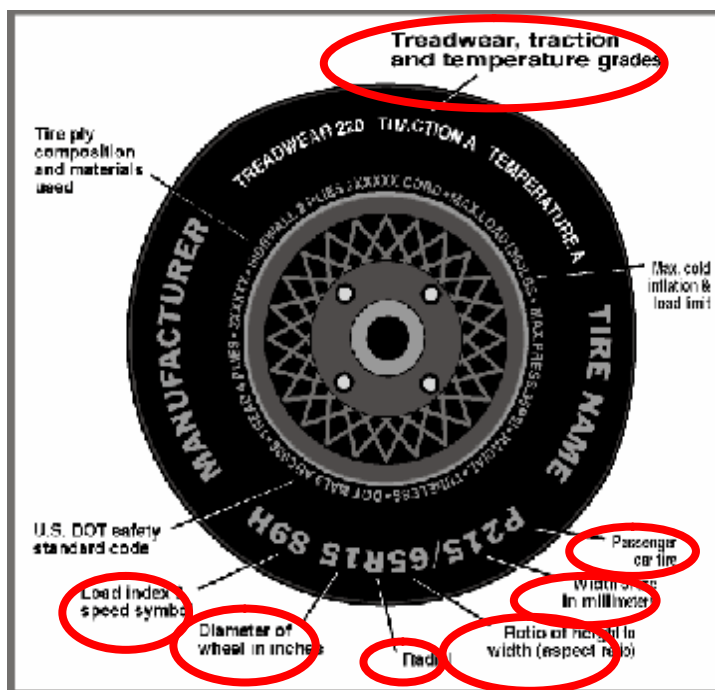
TEST VEHICLE VERTICAL IMPACT LINE AND CG

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2638
Target Impact Point Aft of Front Axle	mm	379
Actual Impact Point Aft of Front Axle	mm	377
As Tested CG (aft of front axle)	mm	1222.41

DATA SHEET NO. 2

TEST VEHICLE TIRE INFORMATION

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 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 60R17	P215 60R17
Tire Size on Vehicle	P215 60R17	P215 60R17
Tire Manufacturer	Firestone	Firestone
Tire Name	Affinity	Affinity
Tire Type	P	P
Tire Width (mm)	215	215
Ratio of Height to Width (aspect ratio)	60	60
Radial	Yes	Yes
Wheel Diameter	17	17
Load Index & Speed Symbol	95T	95T
Treadwear	500	500
Traction Grade	A	A
Temperature Grade	B	B

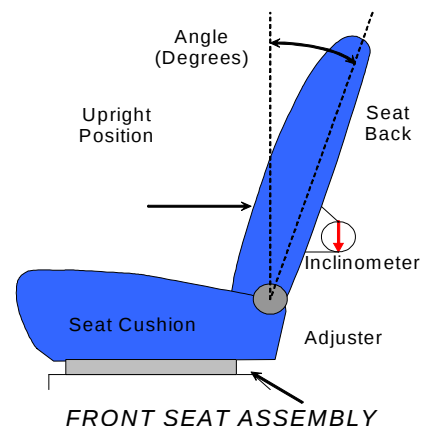
DATA SHEET NO. 3

TEST VEHICLE INFORMATION

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006

NORMAL DESIGN RIDING POSITION

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

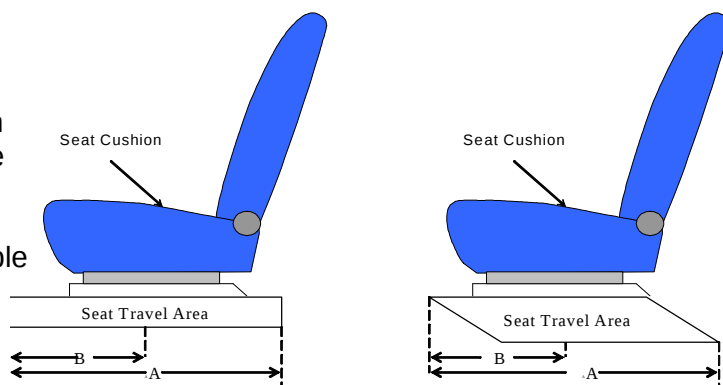


SEAT BACK POSITION

	Driver Seat	Rear Seat
Test Detent (forward-most detent defined as 0)	NA	NA
Angle (deg. from forward-most locking position)	24	24
Alternative Measurements to Verify Test Position	Head restraint post 12° back from vertical	Oscar at 24.4°

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)	300	Fixed
Test Position (B) (mm)	150	Fixed
Test Detent (forward-most detent defined as 0)	NA	0
Total Number of Detents (including 0)	NA	0

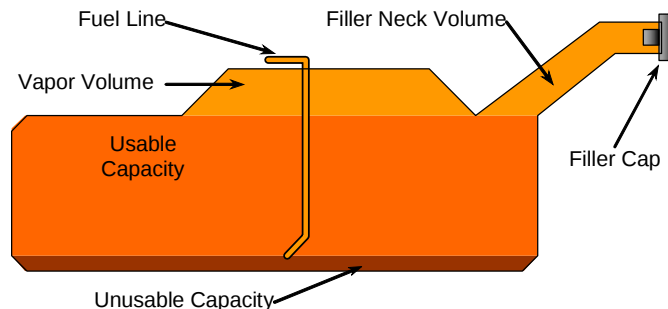
DATA SHEET NO. 3 (CONTINUED)

TEST VEHICLE INFORMATION

Test Vehicle: 2007 Dodge Caliber NHTSA No. C70301
Test Program: FMVSS 214 Indicant Side Impact Test Date: June 29, 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.



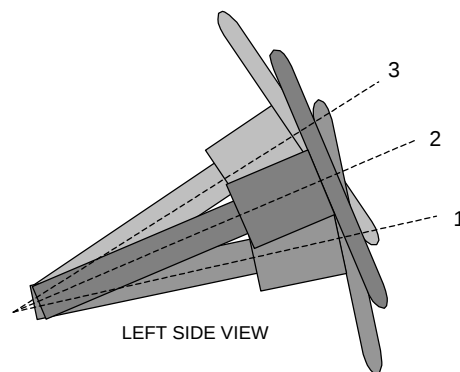
VEHICLE FUEL TANK ASSEMBLY

FUEL TANK CAPACITY

	Liters
Usable Capacity of "Standard" Fuel Tank	52.7
Usable Capacity of "Optional" Fuel Tank	-
Stoddard Used For Test (92%-94% of Fuel Tank Usable Capacity)	48.07

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	NA	-	NA
Geometric Center Position No. 2 *	NA	21.0	NA
Uppermost Position No. 3	NA	-	NA

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

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 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	61.80
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	61.80

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

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	2 mm forward
Vertical Offset	mm	+/-20	9 mm below

DATA SHEET NO. 5
POST TEST OBSERVATIONS

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat SID/HIII	Rear Seat SID/HIII
Dummy Type / Serial No.	SID/HIII / 269	SID/HIII / 270
Head Contact	The left side of the face and top of the head to the side curtain airbag. The top of the head and side of the face to the side header.	The left side of the face to the side curtain airbag. The side of the face, the top and the back of the head to the side header.
Upper Torso Contact	Side door panel	Side door panel
Lower Torso Contact	Side door panel	Side door panel
Left Knee Contact	Side door panel	Side door panel
Right Knee Contact	Left Knee	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 remained closed and latched	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	Driver Side Window Broke
Other Notable Effects	None

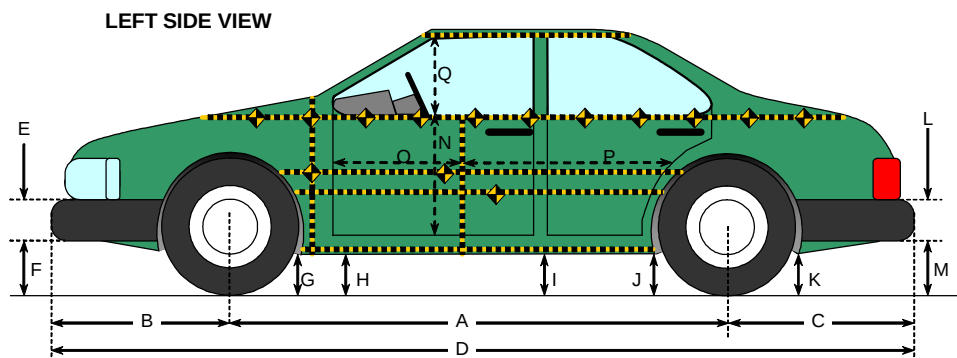
SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver)		Left Rear (Passenger)	
	Installed	Deployed	Installed	Deployed
Front Airbag	Yes	No	NA	NA
Side Torso Airbag	No	NA	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 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006



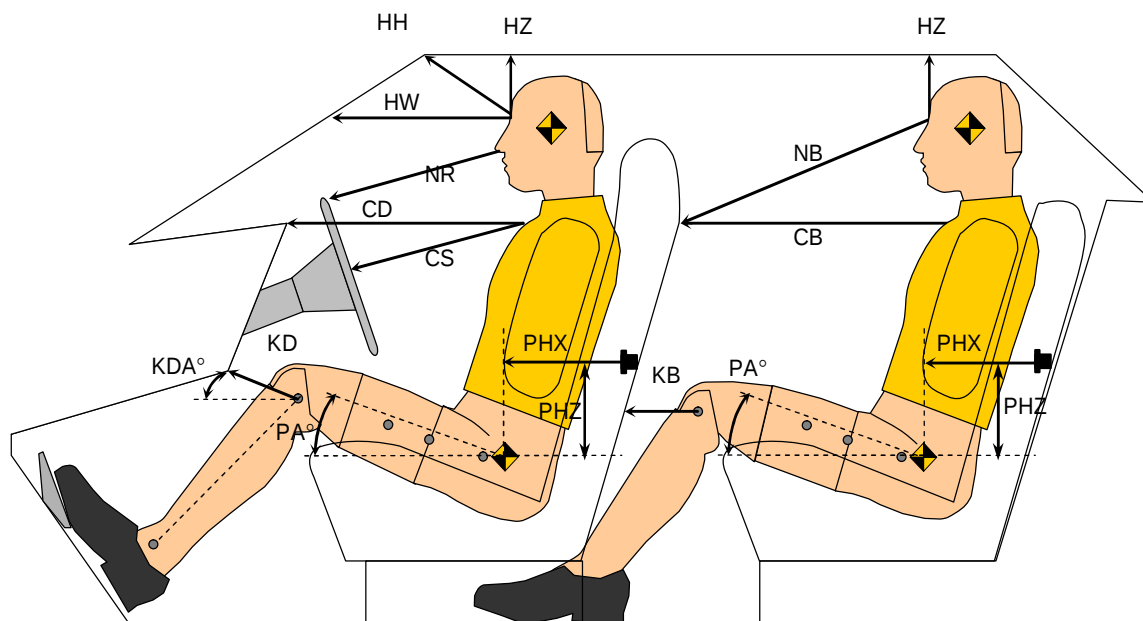
All Measurements in mm

Code	Measurement Description	Pre-Test (delivered)	Pre-Test (as tested)	Post-Test (as tested)	Difference
A	Wheelbase	2637	2638	2638	0
B	Front Axle to FSOV	878	878	878	0
C	Rear Axle to RSOV	906	906	904	2
D	Total Length at Centerline	4421	4421	4420	1
E	Front Bumper Thickness	110	110	110	0
F	Front Bumper Bottom to Ground	443	426	423	3
G	Sill Height at Front Wheel Well	225	197	200	-3
H	Sill Height at Front Door Leading Edge	270	252	244	8
I	Sill Height at "B" Pillar	283	260	242	18
J1	Sill Height at Rear Wheel Well	246	210	221	-11
J2	Pinch Weld Height at Rear Wheel Well	289	253	271	-18
K	Sill Height Aft of Rear Wheel Well	308	265	295	-30
L	Rear Bumper Thickness	298	298	328	-30
M	Rear Bumper Bottom to Ground	349	306	306	0
N	Sill Height to Window Bottom Sill	743	743	683	60
O	Front Door Leading Edge to Impact CL	686	686	679	7
P	Rear Door Trailing Edge to Impact CL	1211	1211	1073	138
Q	Front Window Opening	393	393	393	0
R	Right Side Length	4311	4311	4306	5
S	Left Side Length	4313	4313	4320	-7
T	Vehicle Width at "B" Post	1756	1756	1586	170

DATA SHEET NO. 7

SID/HIII LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006

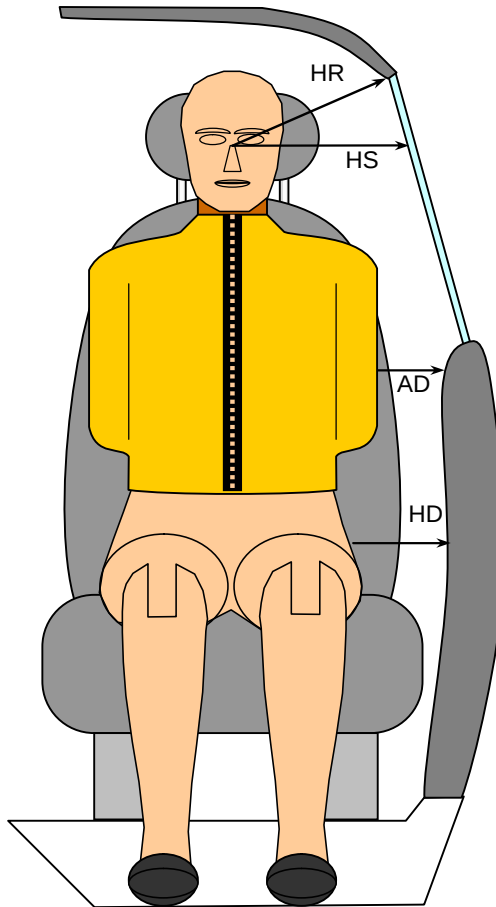


Driver Code	Pass. Code	Measurement Description	Driver S/N 269		Passenger S/N 270	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	510			
HW		Head to Windshield	762			
HZ	HZ	Head to Roof	191		189	
NR	NB	Nose to Rim/Nose to Seatback	417		585	
CD	CB	Chest to Dash or Seatback	537		517	
CS		Chest to Steering Wheel	274			
KDL	KBL	Left Knee to Dash or Seatback	160	30	285	0
KDR	KBR	Right Knee to Dash or Seatback	154	53	217	0
PA	PA	Pelvic Angle		23.3		23.0
PHX	PHX	H-Point to Striker (X-Axis)	184		278	
PHZ	PHZ	H-Point to Striker (Z-Axis)	195		280	

DATA SHEET NO. 8

SID/HIII LATERAL CLEARANCE DIMENSIONS

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006



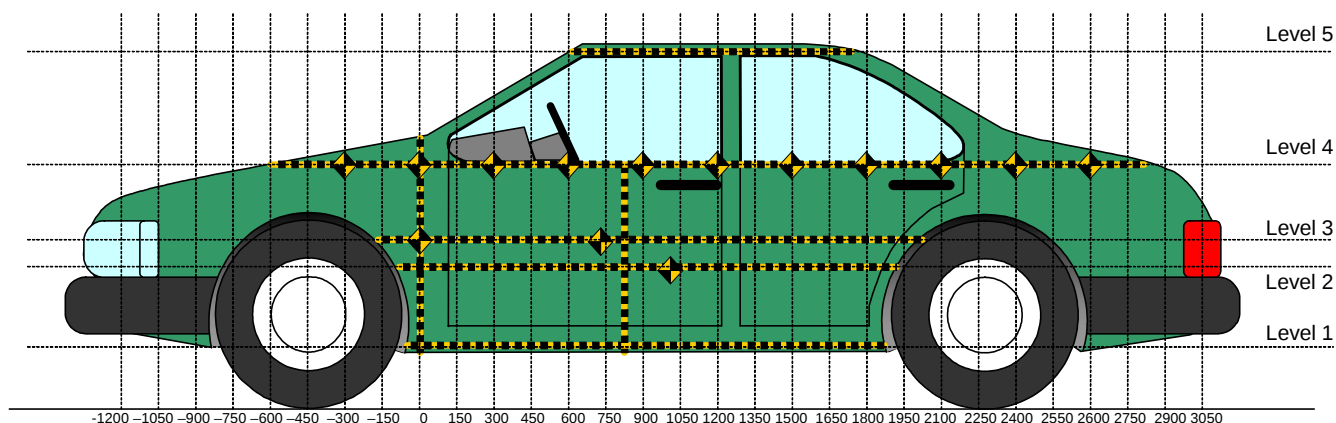
FRONT VIEW OF DUMMY

Code	Measurement Description	Units	Driver S/N 269	Passenger S/N 270
HR	Head to Side Header	mm	214	187
HS	Head to Side Window	mm	355	352
AD ₁	Arm to Door (at upper rib level)	mm	103	98
AD ₂	Arm to Door (at lower rib level)	mm	132	98
HD	H-Point to Door	mm	135	128

DATA SHEET NO. 9

VEHICLE SIDE MEASUREMENTS

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 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	53	263	1050
2	Occupant H-Point	172	563	1500
3	Mid Door	191	662	1650
4	Window Sill	142	901	1350
5	Window	7	1463	1350
	Maximum Penetration	191		

DATA SHEET NO. 10

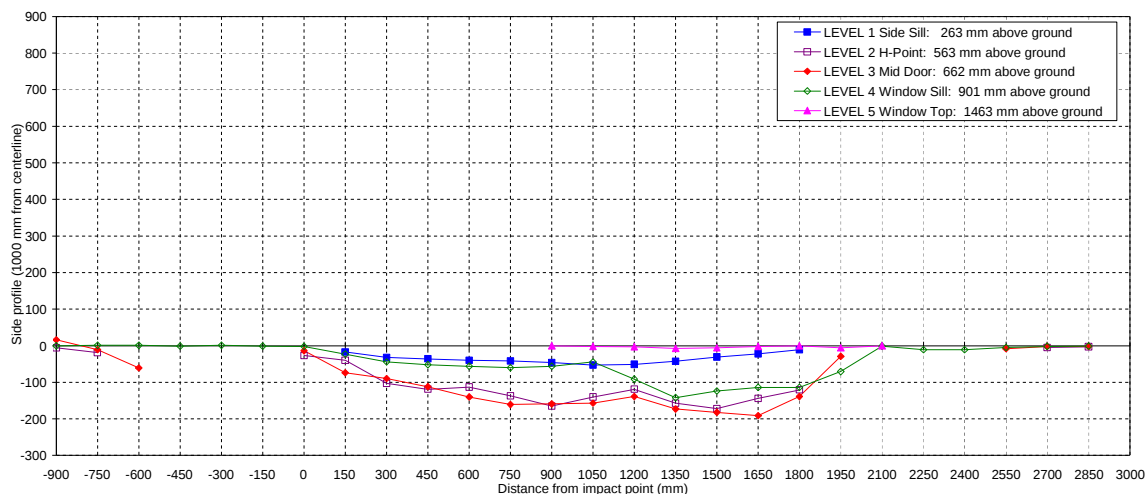
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2007 Dodge Caliber

NHTSA No. C70301

Test Program: FMVSS 214 Indicant Side Impact

Test Date: June 29, 2006



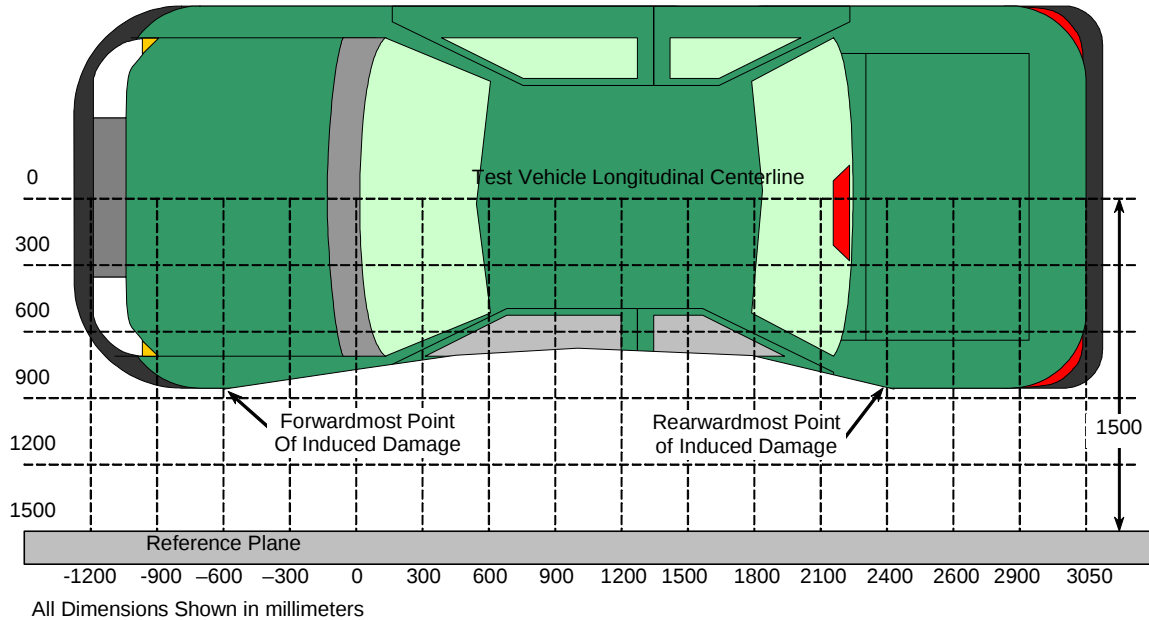
NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

			NOTE: All dimensions are in millimeters with a tolerance of ±5 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	263	PRE	--	--	--	--	--	--	--	1813	1822	1828	1832	1834	1836	1838	1837	1835	1829	1824	1818	--	--	--	--	--	--	--	--	--	--				
		POST	--	--	--	--	--	--	--	--	1796	1790	1792	1792	1792	1790	1785	1786	1792	1798	1802	1807	--	--	--	--	--	--	--	--	--				
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-17	-32	-36	-40	-42	-46	-53	-51	-43	-31	-22	-11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
LEVEL 2 H POINT	563	PRE	1803	1861	--	--	--	--	--	1874	1837	1844	1849	1854	1858	1861	1861	1863	1862	1860	1857	1875	--	--	--	--	--	--	1826	1792	--				
		POST	1797	1842	--	--	--	--	--	--	1847	1797	1741	1730	1741	1721	1696	1721	1744	1705	1688	1713	1754	--	--	--	--	--	--	1821	1789	--			
		CRUSH	-6	-19	N/A	N/A	N/A	N/A	N/A	N/A	-27	-40	-103	-119	-113	-137	-165	-140	-119	-157	-172	-144	-121	N/A	N/A	N/A	N/A	N/A	N/A	-5	-3	N/A			
LEVEL 3 MID DOOR	662	PRE	1759	1842	1879	--	--	--	--	1868	1843	1851	1857	1861	1865	1867	1869	1868	1868	1866	1864	1868	1892	--	--	--	--	1877	1822	1791	--				
		POST	1775	1831	1818	--	--	--	--	--	1854	1769	1761	1745	1721	1704	1708	1712	1730	1695	1684	1673	1729	1863	--	--	--	1869	1820	1789	--				
		CRUSH	16	-11	-61	N/A	N/A	N/A	N/A	-14	-74	-90	-112	-140	-161	-159	-157	-139	-173	-182	-191	-139	-29	N/A	N/A	N/A	N/A	-8	-2	-2	N/A				
LEVEL 4 WINDOW SILL	901	PRE	1524	1610	1692	1767	1781	1797	1815	1828	1839	1848	1853	1858	1880	1891	1862	1862	1861	1857	1853	1847	1839	1827	1815	1798	1776	1747	--	--					
		POST	1524	1611	1693	1766	1782	1796	1813	1805	1795	1796	1797	1798	1824	1847	1771	1720	1737	1743	1739	1776	1838	1816	1804	1793	1774	1746	--	--					
		CRUSH	0	1	1	-1	1	-1	-2	-23	-44	-52	-56	-60	-56	-44	-91	-142	-124	-114	-114	-71	-1	-11	-11	-5	-2	-1	N/A	N/A					
LEVEL 5 WINDOW TOP	1463	PRE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1607	1614	1612	1610	1606	1598	1585	1572	1546	--	--	--	--	--					
		POST	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1607	1612	1609	1603	1600	1596	1585	1566	1546	--	--	--	--	--				
		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	N/A	N/A	0	-2	-3	-7	-6	2	0	-6	0	N/A	N/A	N/A	N/A	N/A	N/A				

DATA SHEET NO. 11

VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006



TOP VIEW

DAMAGE PROFILE DISTANCES

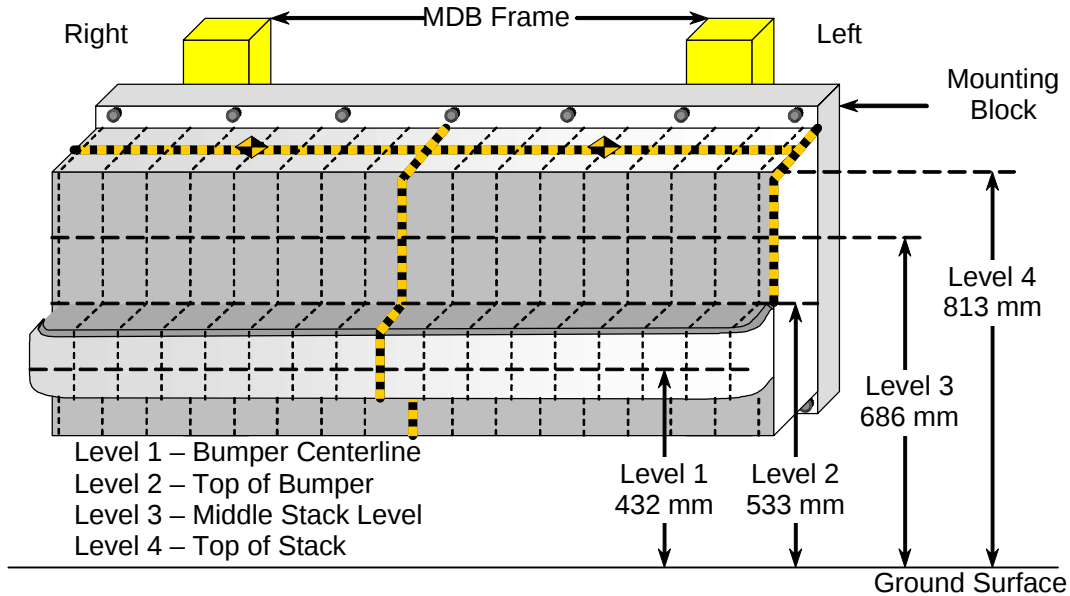
DPD	Distance from Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1 (LR)	2100	901	1839	1838	-1
2	1650	662	1864	1673	-191
3	1200	662	1869	1730	-139
4	750	662	1865	1704	-161
5	300	563	1844	1741	-103
6 (LF)	-150	901	1797	1796	-1

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

DATA SHEET NO. 12

DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006



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

		DISTANCE RIGHT OF CENTER (mm)												DISTANCE LEFT OF CENTER (mm)									
LEVEL	HEIGHT AT CL (mm)*		800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800				
LEVEL 4 TOP STACK	813	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619				
		POST	641	633	631	635	651	699	693	679	680	690	679	687	696	705	719	743	764				
		CRUSH	22	14	12	16	32	80	74	60	61	71	60	68	77	86	100	124	145				
LEVEL 3 MID LEVEL	686	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619				
		POST	664	658	658	656	657	667	668	651	647	645	645	651	660	677	694	722	723				
		CRUSH	45	39	39	37	38	48	49	32	28	26	26	32	41	58	75	103	104				
LEVEL 2 TOP BUMPER	533	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619				
		POST	772	768	760	731	725	728	726	728	725	724	726	723	723	726	734	742	751				
		CRUSH	153	149	141	112	106	109	107	109	106	105	107	104	104	107	115	123	132				
LEVEL 1 MID BUMPER	432	PRE	535	519	518	518	518	518	518	518	518	518	518	518	518	518	518	519	535				
		POST	734	710	697	686	670	663	660	659	659	660	659	660	657	660	672	675	695				
		CRUSH	199	191	179	168	152	145	142	141	141	142	141	142	139	142	154	156	160				

*Heights measured above ground level.

LEVEL	HEIGHT AT CL (mm)*	MAX CRUSH
LEVEL 4 TOP STACK	813	145
LEVEL 3 MID LEVEL	686	104
LEVEL 2 TOP BUMPER	533	153
LEVEL 1 MID BUMPER	432	199

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATIONS

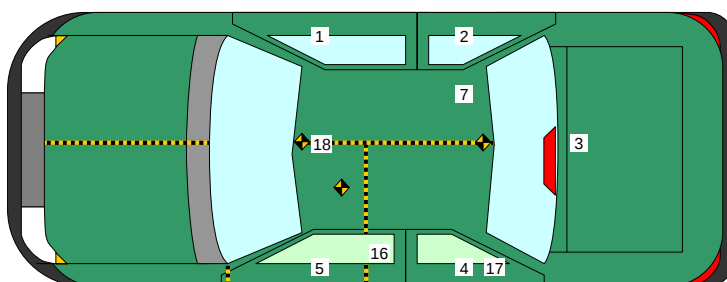
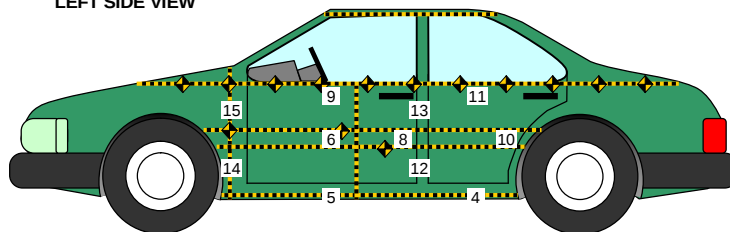
Test Vehicle: 2007 Dodge Caliber

NHTSA No. C70301

Test Program: FMVSS 214 Indicant Side Impact

Test Date: June 29, 2006

LEFT SIDE VIEW



Loc. No.	Accelerometer Location	Measurements (mm)		
		X	Y	Z
1	Right Sill at Front Seat	2498	614	-359
2	Right Sill at Rear Seat	1994	528	-278
3	Rear Floorpan Above Axle	1029	17	-625
4	Left Sill at Rear Door	2005	-519	-261
5	Left Sill at Front Door	2678	-622	-319
6	Left Front Door C/L **	-	-	-
7	Rear Occupant Compartment	1762	574	-210
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	1994	-625	-349
13	Left Middle B-Post	1945	-662	-700
14	Left Lower A-Post	3006	-605	-562
15	Left Middle A-Post	3012	-632	-1043
16	Front Seat Track	2048	-542	-333
17	Rear Seat Track or Structure	946	-497	-664
18	Vehicle CG	2483	-6	-447

Reference Points X - Test Vehicle Rear Bumper (+ forward)

Y - Test Vehicle Centerline (+ to right)

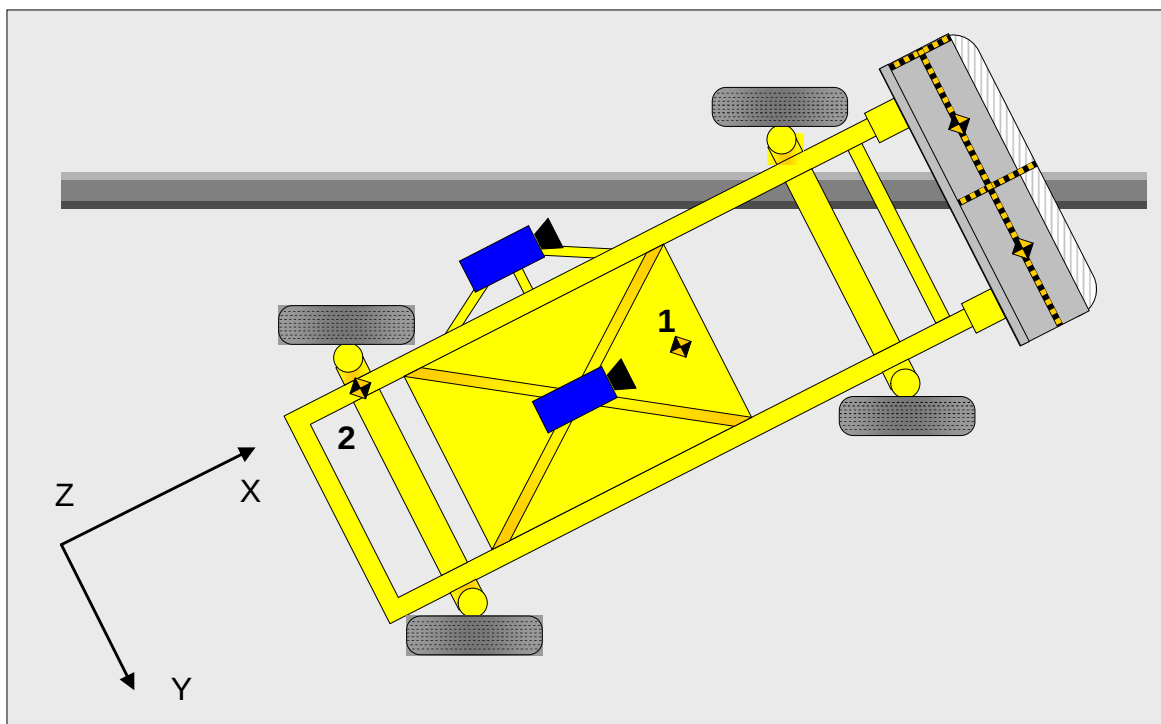
Z - Ground Plane (+ down)

** Accelerometer was not requested by the COTR.

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATIONS

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 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**

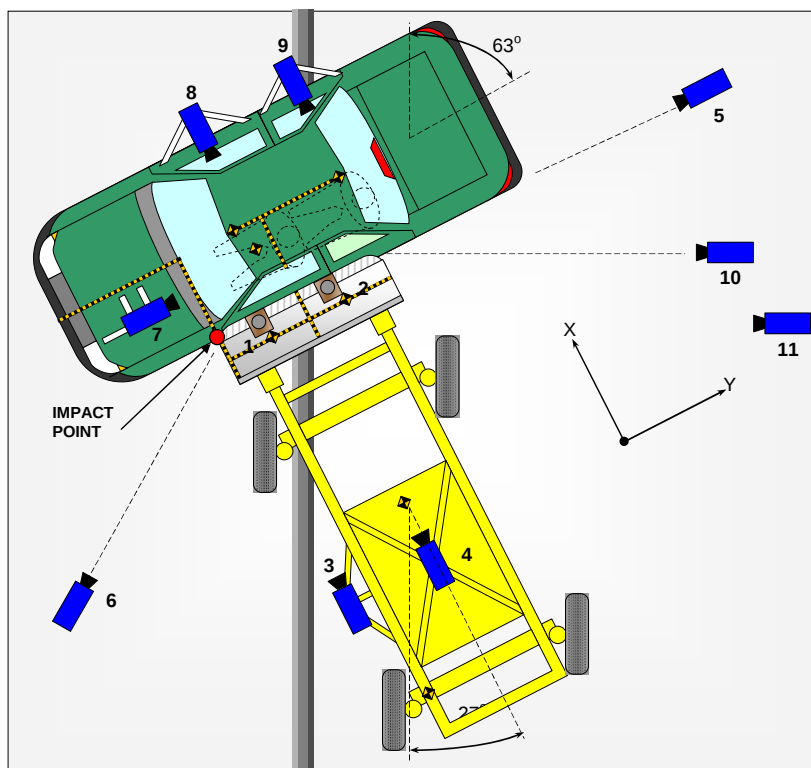
Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006

	Elements	Pre-Test (mm)
1	Total Length	4421
2	Total Width	1756
3	Bumper Top Height	540
4	Bumper Bottom Height	406
5	Longitudinal Member Top Height	594
6	Distance between Longitudinal Members	920
7	Longitudinal Member Width	40
8	Engine Top Height	873
9	Engine Bottom Height	239
10	Engine and gearbox width	590
11	Front bumper-engine distance	400
12	Front shock absorber fixing height	922
13	Bonnet leading edge height	861
14	Front shock absorber fixing width	1104
15	Front bumper – front axle distance	878
16	Front axle – a pillar distance	629
17	A-pillar – B-pillar distance	883
18	B-Pillar – rear axle distance	1125
19	B-pillar – C-pillar distance	895
20	Roof sill bottom height	1397
21	Roof sill top height	1497
22	Floor sill bottom height	249
23	Floor sill top height	358

DATA SHEET NO. 16

HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006



No.	Camera View	Location (mm)			Angle (deg)	Lens (mm)	Film Speed (fps)
		X	Y	Z			
1	Overhead Close-up	72	812	-4880	-90	8	1000
2	Overhead Overall	195	855	-4880	-90	28	1000
3	MDB Onboard, Impact Point Close-up	-1470	0	-847	0	13	1000
4	MDB Onboard, Centerline of Impact	-1140	838	-1587	-17	7.5	1000
5	Right Side, Ground Level, Overall	445	10045	-986	-2.7	52	1000
6	Left Side, Ground Level, Overall	-2086	-1556	-945	-7.0	24	1000
7	Vehicle Onboard Front SID/HIII, Front	525	-462	-1330	-8.1	25	1000
8	Vehicle Onboard Front SID/HIII, Side	1385	838	-1160	-7.9	12.5	1000
9	Vehicle Onboard Rear SID/HIII, Side	1717	1758	-1205	-10.4	12.5	1000
10	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

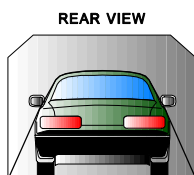
Test Vehicle:	2007 Dodge Caliber	NHTSA No.	C70301
Test Program:	FMVSS 214 Indicant Side Impact	Test Date:	June 29, 2006

FUEL SYSTEM INTEGRITY POST IMPACT DATA

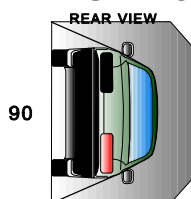
Time Interval	FMVSS 301 Maximum Allowable Spillage	Spillage (g)
Impact Until Motion Ceases	28 g	0
First Five Minutes Following Impact	142 g	0
Next 25 Minutes	28 g / 1 minute	0

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

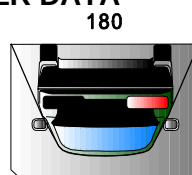
STATIC ROLLOVER DATA



0/360

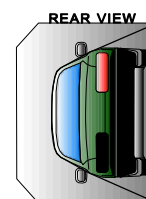


90



180

REAR VIEW



270

Rollover Stage	Rotation Time (spec. 1 -3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
0° - 90°	1	minutes	11	seconds	5	minutes	6	minutes	11	seconds	7	minutes
90° - 180°	1	minutes	8	seconds	5	minutes	6	minutes	8	seconds	7	minutes
180°-270°	1	minutes	2	seconds	5	minutes	6	minutes	2	seconds	7	minutes
270°-360°	1	minutes	6	seconds	5	minutes	6	minutes	6	seconds	7	minutes

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	0
90° - 180°	0	0	0	0
180°-270°	0	0	0	0
270°-360°	0	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

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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

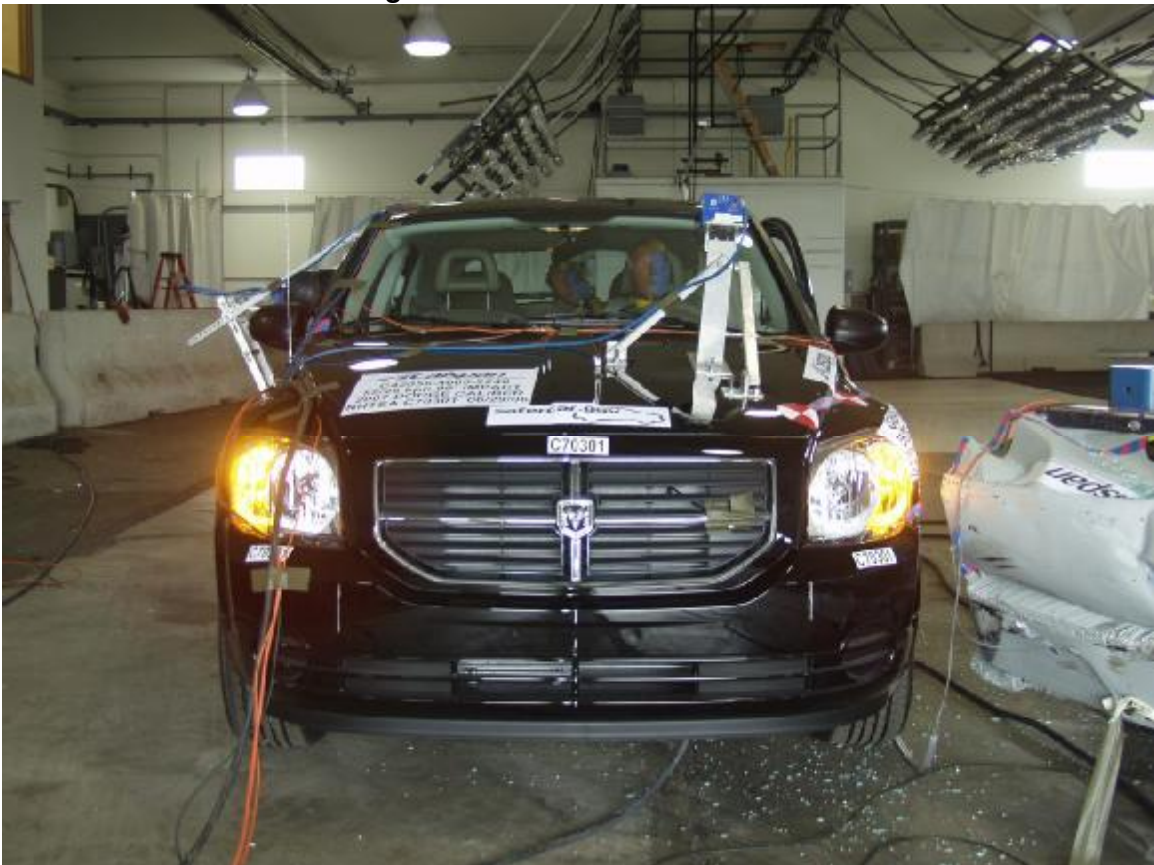


Figure A-6: Post-Test Front View



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

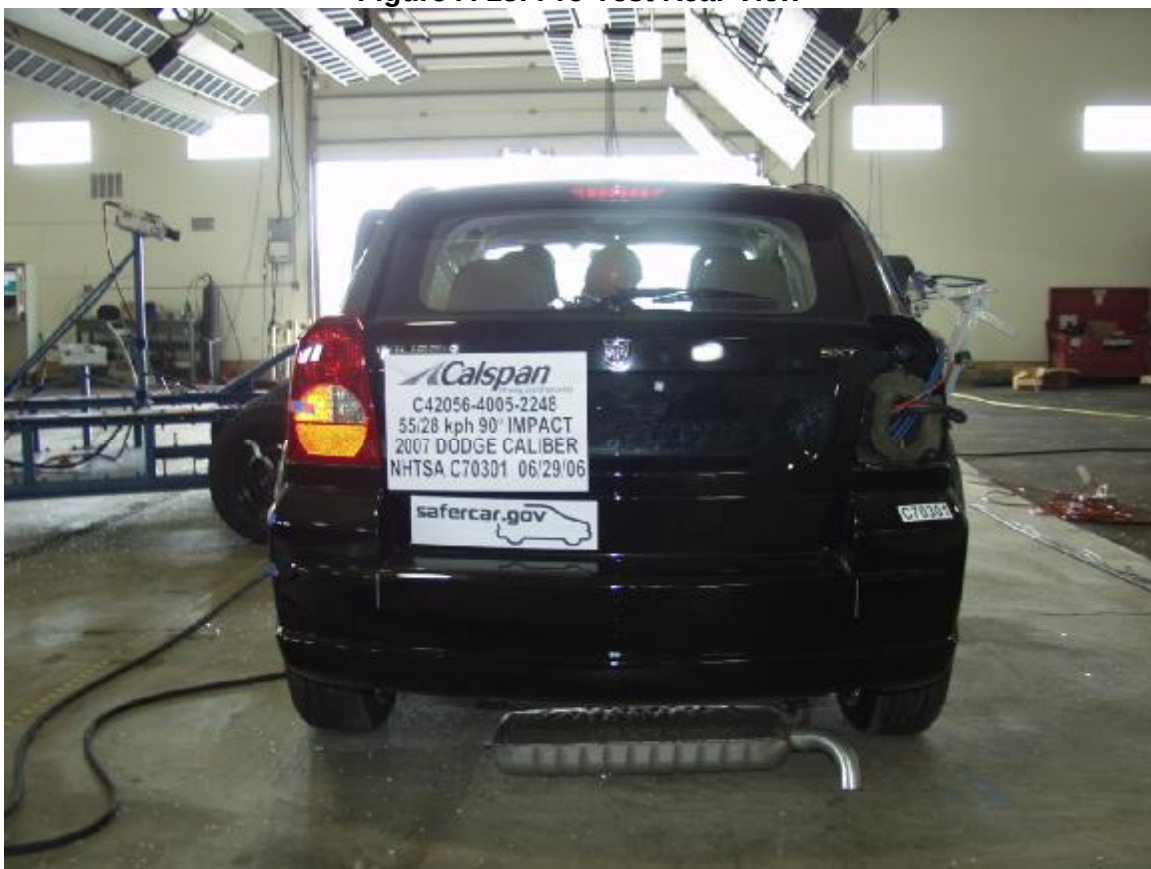


Figure A-14: Post-Test Rear View



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 $\frac{3}{4}$ View



Figure A-20: Post-Test Right Front $\frac{3}{4}$ 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

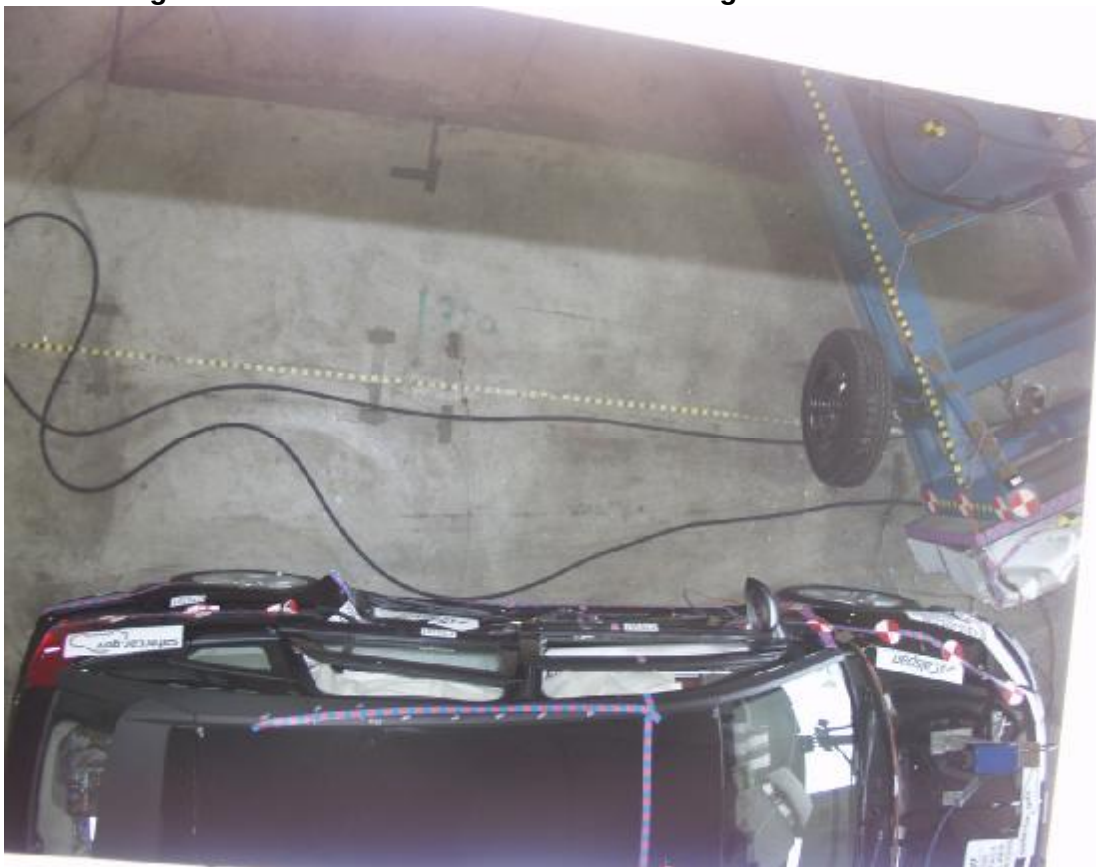


Figure A-32: Post-Test Overhead View of MDB and Vehicle



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 $\frac{3}{4}$ View of Left Side Doors



Figure A-48: Post-Test Left Front $\frac{3}{4}$ 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

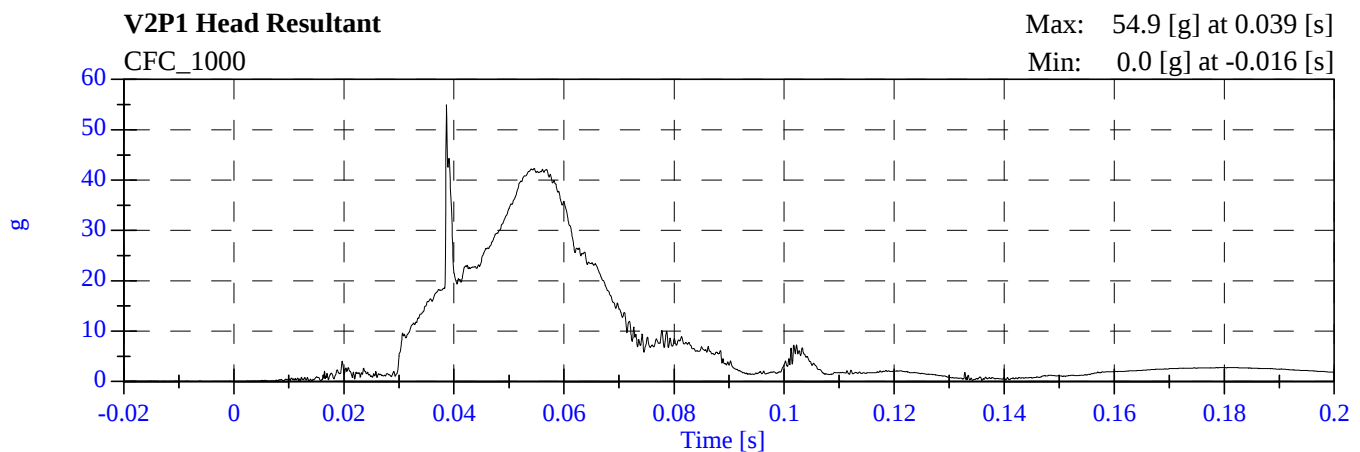
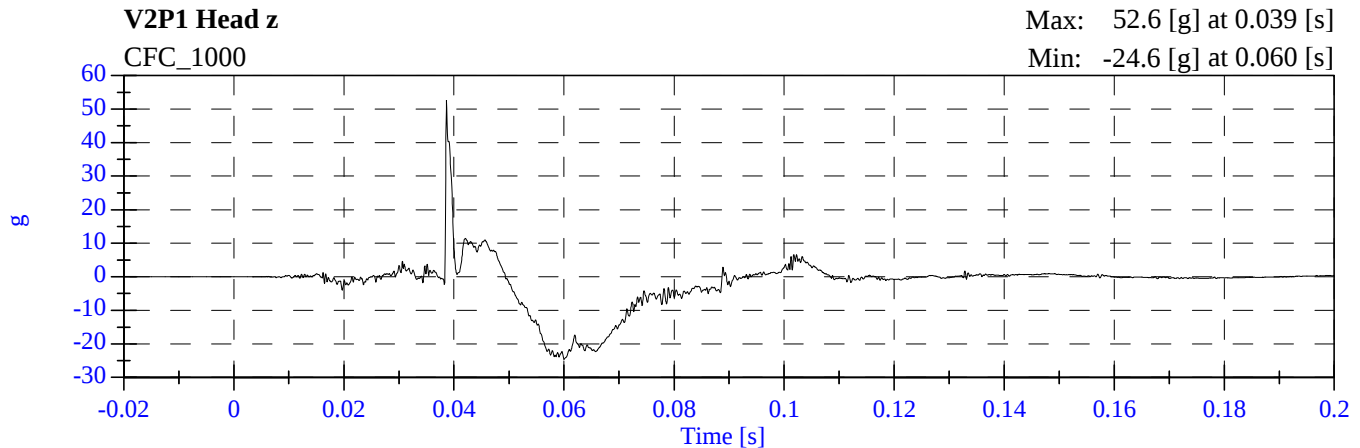
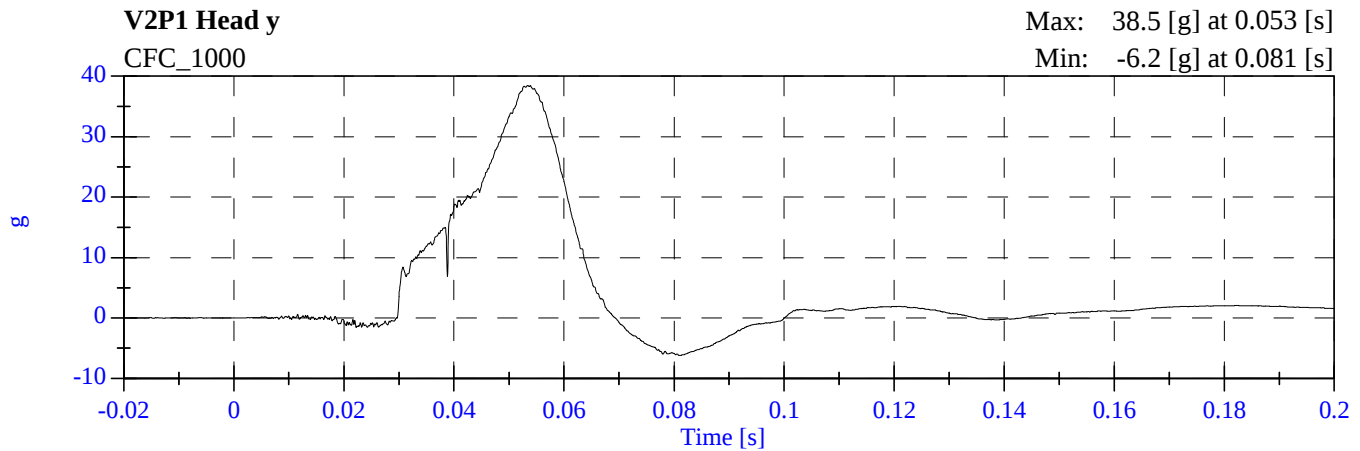
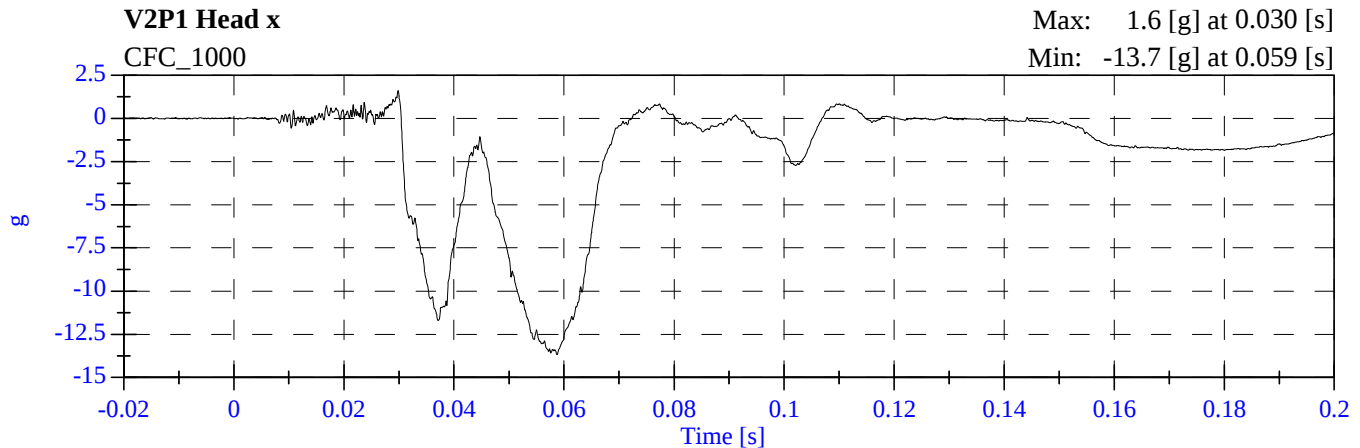
V2P1 Head Ax	V2A1 Right Front Sill Ax
V2P1 Head Ay	V2A1 Right Front Sill Ay
V2P1 Head Az	V2A1 Right Front Sill Az
V2P1 Upper Neck Fx	V2A2 Right Rear Sill Ax
V2P1 Upper Neck Fy	V2A2 Right Rear Sill Ay
V2P1 Upper Neck Fz	V2A2 Right Rear Sill Az
V2P1 Upper Neck Mx	V2A3 Rear Floorpan Ax
V2P1 Upper Neck My	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

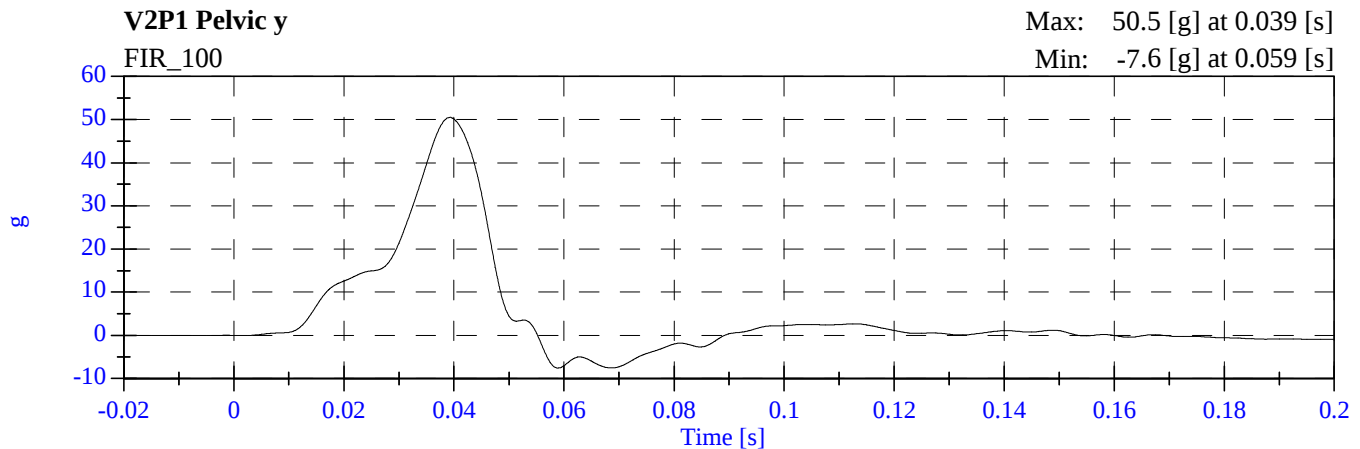
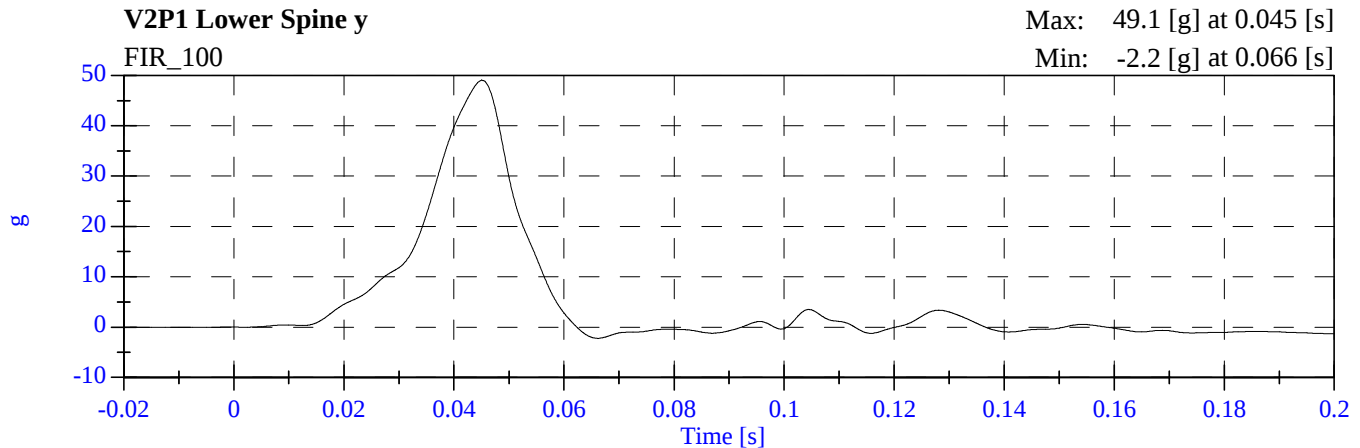
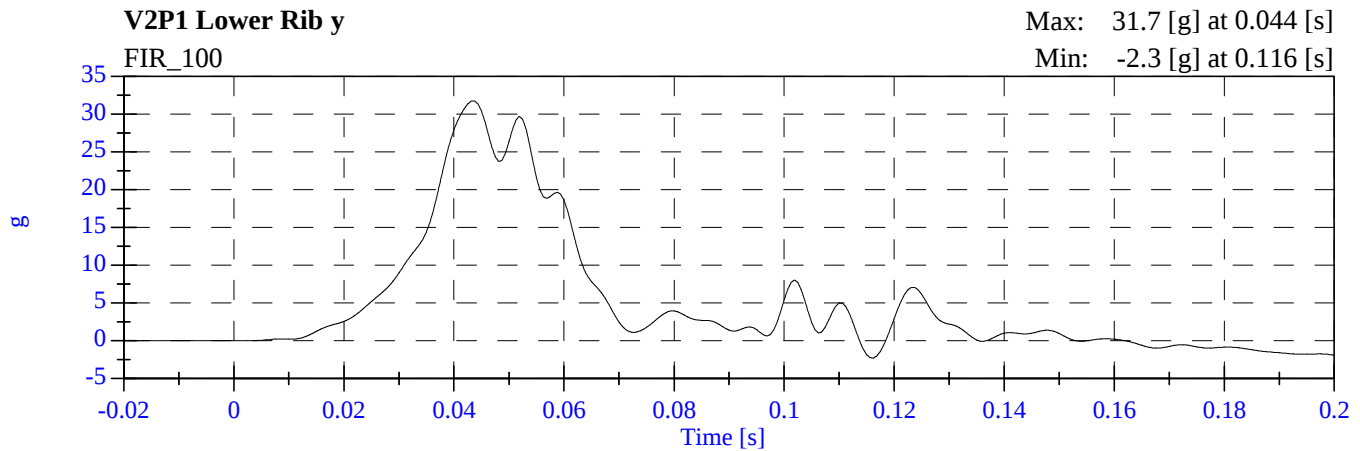
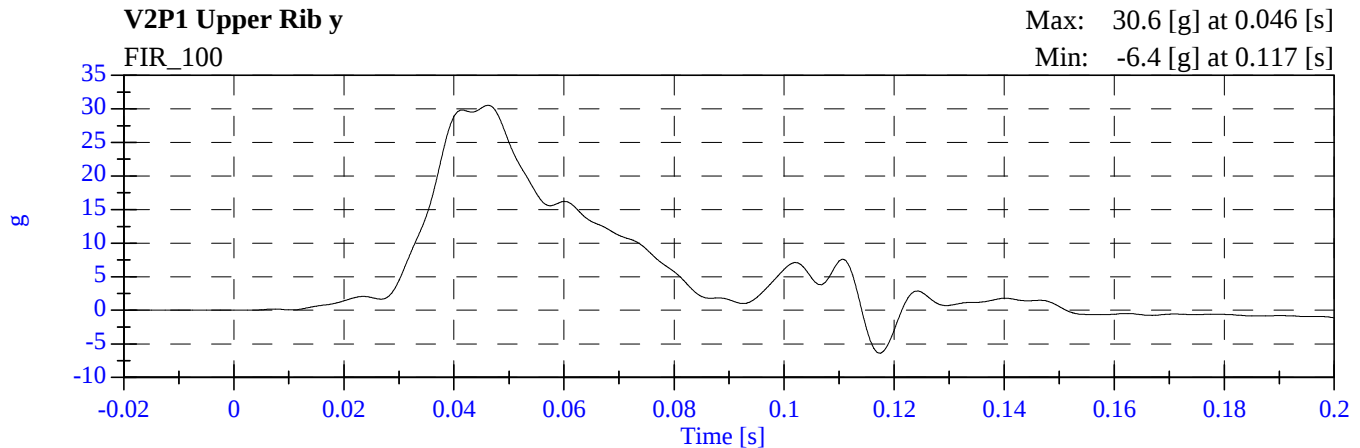
The following channel anomalies occurred:

V2 A3 Rear Floorpan Az – Channel Opened

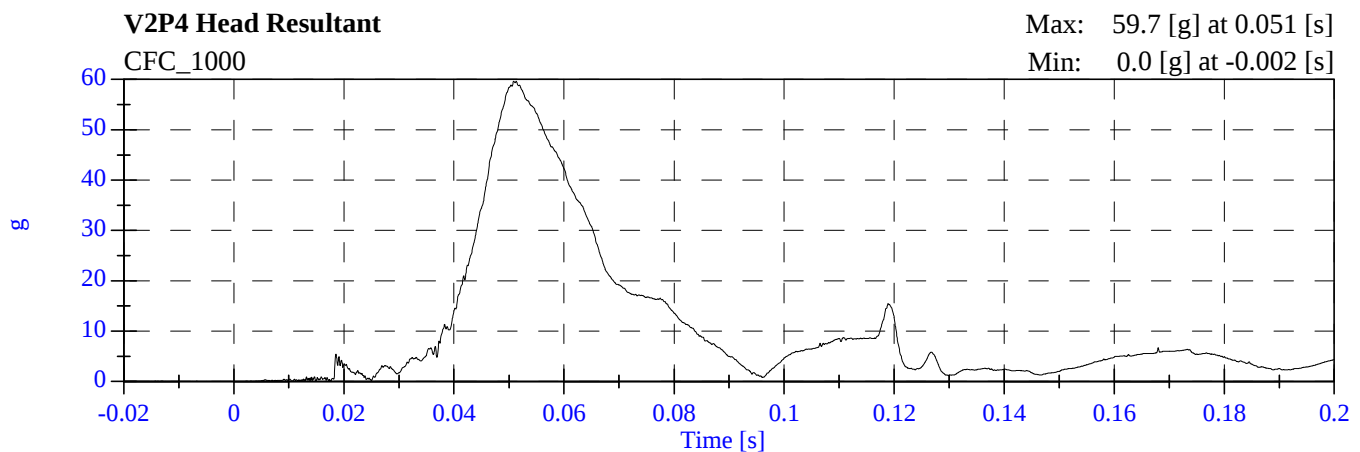
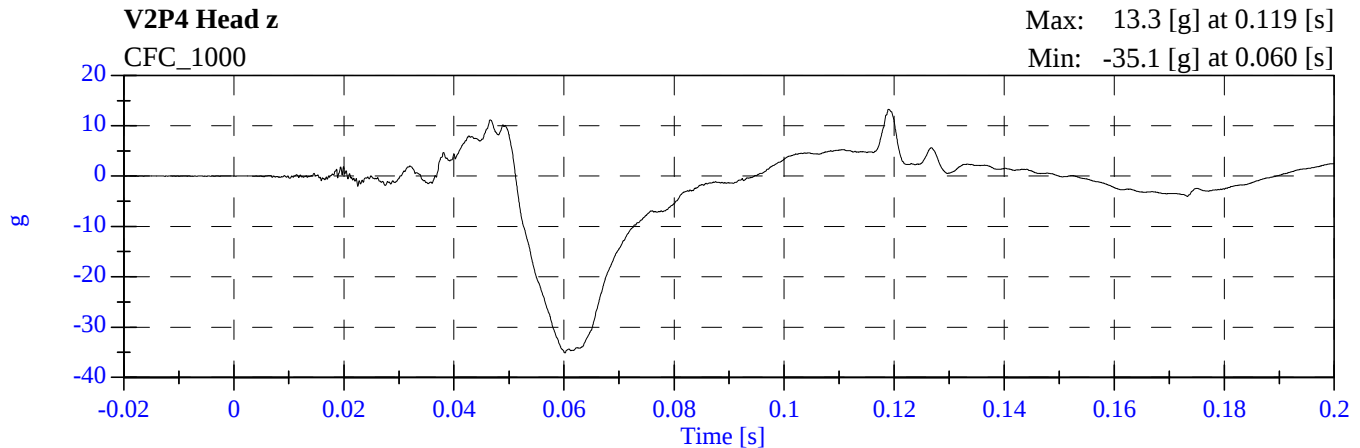
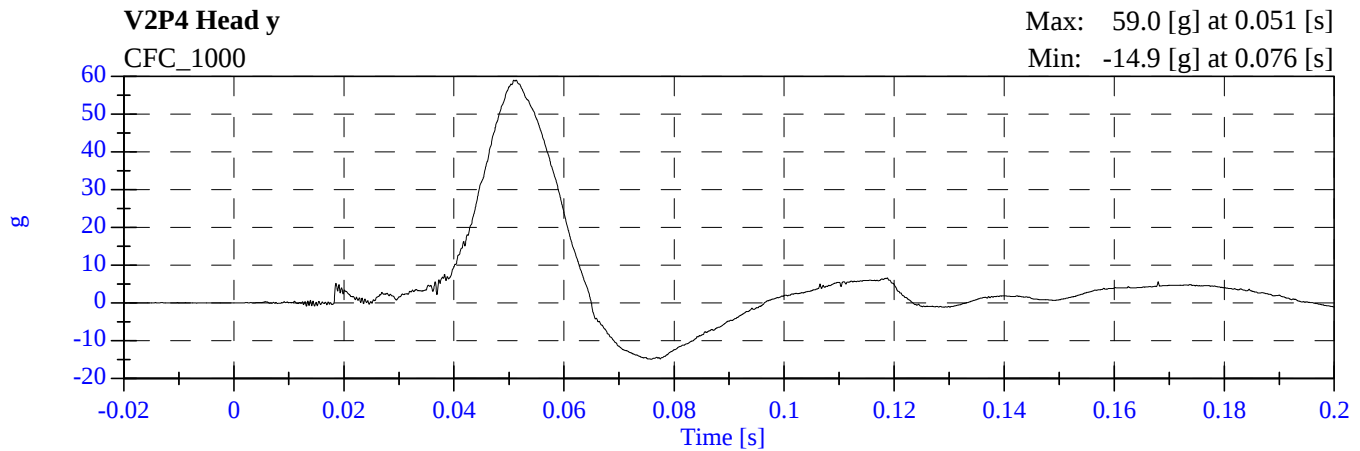
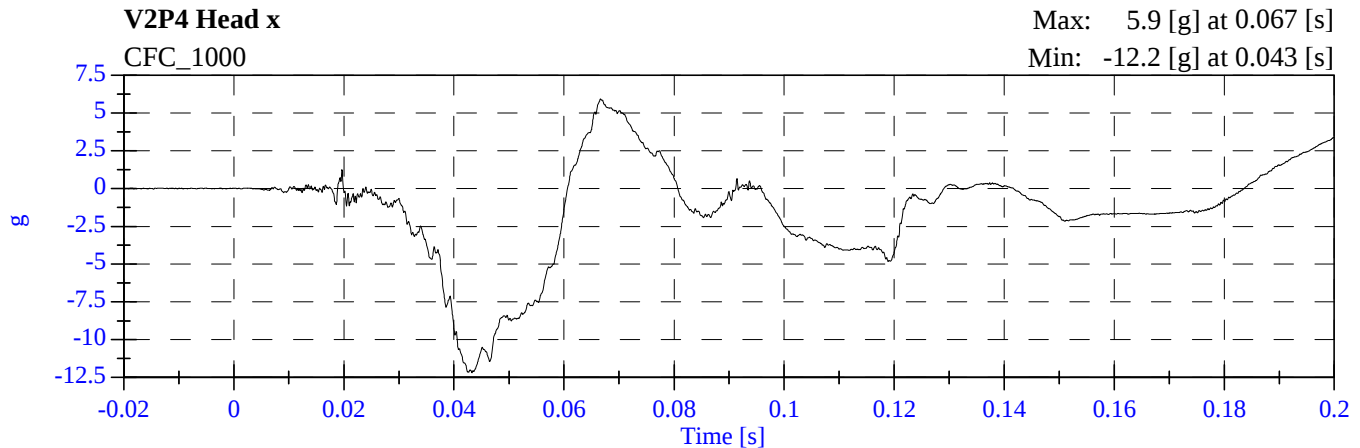
2006 214I Test 5 2007 Dodge Caliber C70301 - June 29, 2006



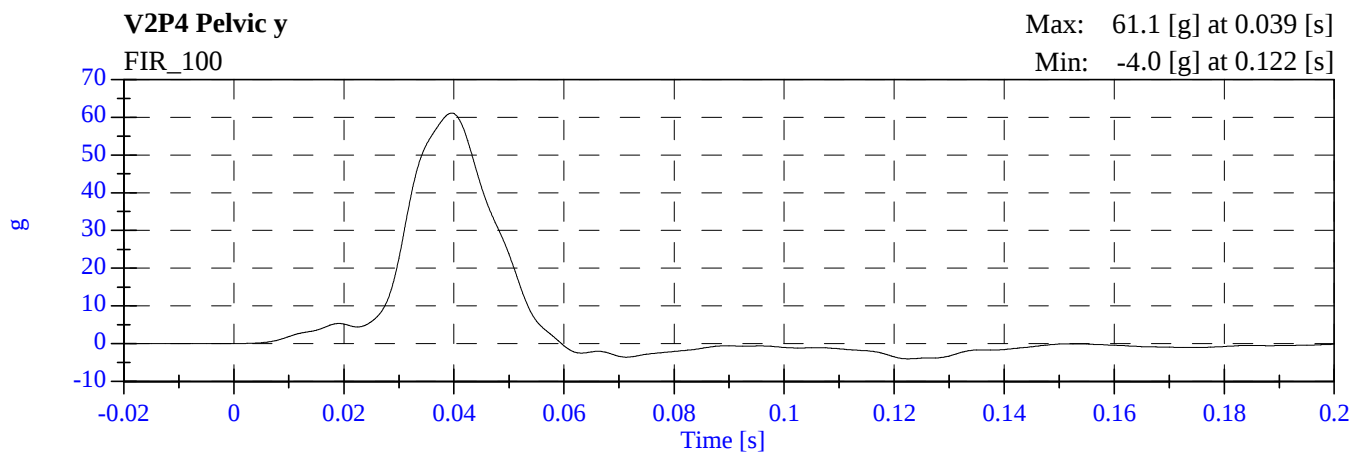
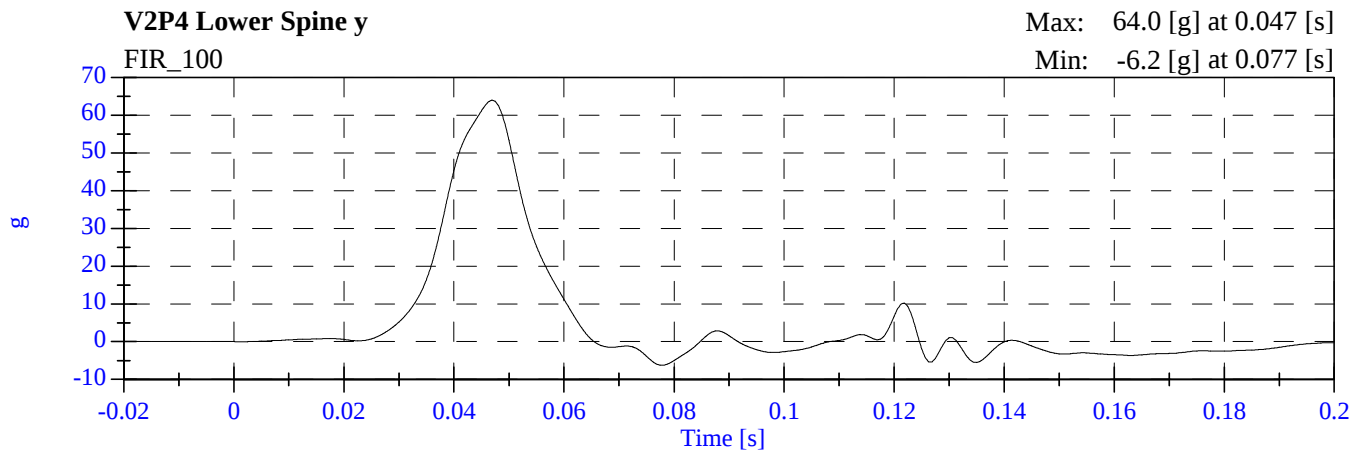
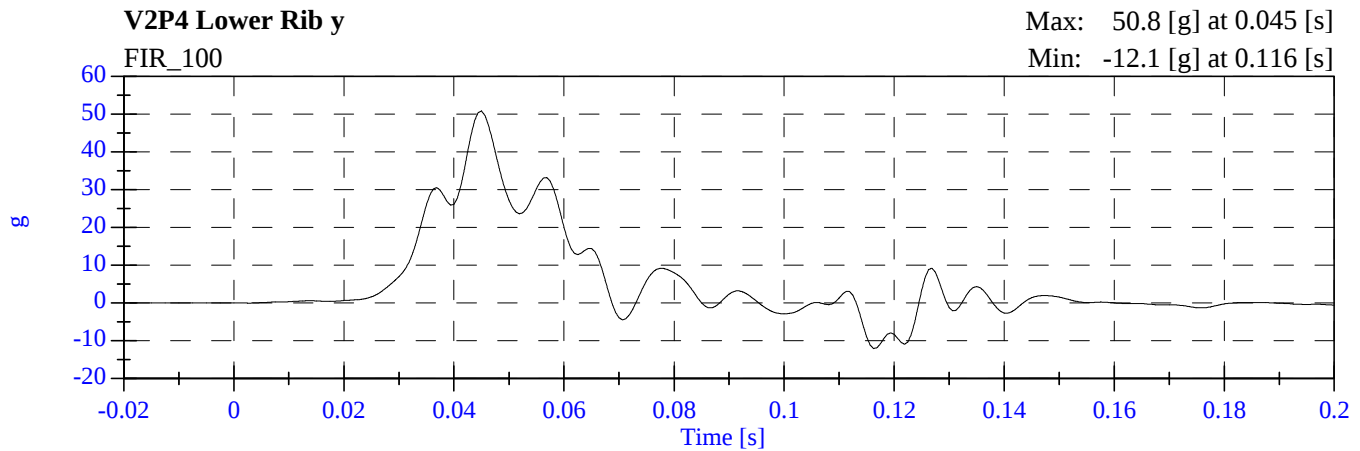
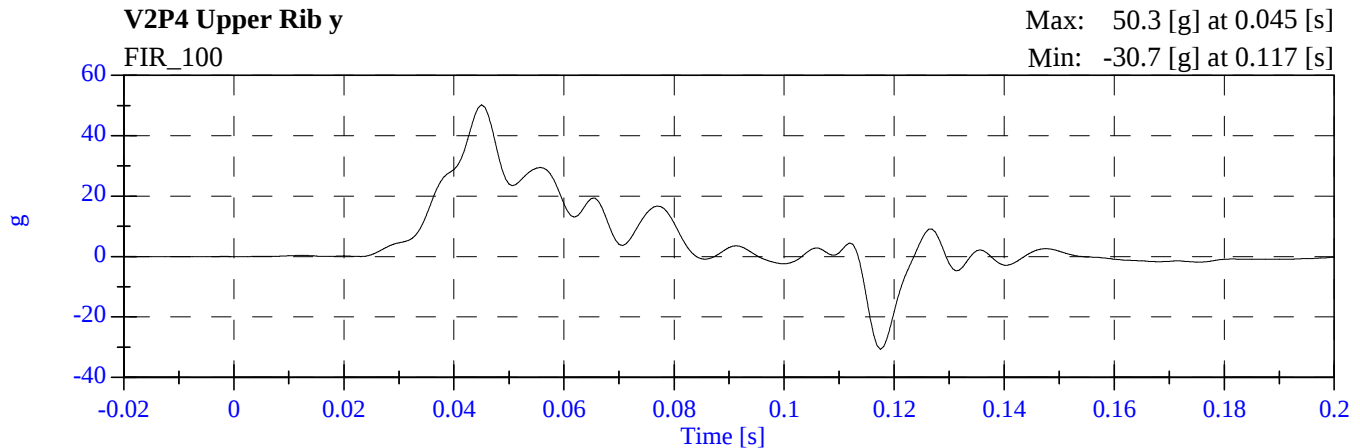
2006 214I Test 5 2007 Dodge Caliber C70301 - June 29, 2006



2006 214I Test 5 2007 Dodge Caliber C70301 - June 29, 2006



2006 214I Test 5 2007 Dodge Caliber C70301 - June 29, 2006



APPENDIX C

DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SUMMARY
SID H3 PRE & POST TEST CALIBRATION

CONFIGURED FOR LEFT SIDE IMPACT

Date: June 16, 2006; July 19, 2006

Sequential Test Number:

1.3; 1.4

Laboratory Technician:

B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID H3 NO.: 269		SID H3 NO.: 270	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	899	899	899	899
RH- Rib Height (mm)	501 - 521	508	508	505	505
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	234	234	234	234
KV- Knee Pivot from Back Line (mm)	511 - 526	516	516	516	516
SW- Knee Pivot to Floor (mm)	490 - 505	495	495	495	495
HW- Hip Width (mm)	356 - 391	378	378	381	381
THORAX IMPACTS					
TEMPERATURE (• C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.0	50.0	35.0	50.0
PROBE SPEED (m/s)	4.27 - 4.33	4.32	4.27	4.32	4.33
UPPER RIB (g's)	37 - 46	41.45	42.57	40.25	45.62
LOWER RIB (g's)	37 - 46	42.51	42.28	38.58	45.12
LOWER SPINE (g's)	15 - 22	20.47	21.24	20.31	21.55
PELVIS IMPACT					
TEMPERATURE (• C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.0	50.0	35.0	50.0
PROBE SPEED (m/s)	4.27 - 4.33	4.31	4.30	4.31	4.30
PELVIS (g's)	40 - 60	52.49	42.97	57.57	41.41

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 269

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269	Sequential Test Number: 3
Date: June 16, 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.: 269	Sequential Test Number: 3
Date: June 16, 2006	Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 – 909	899
RH- Rib Height (mm)	502 – 520	508
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 – 241	234
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	378

REMARKS: None

Shock Impact - low (3.05 m/s)

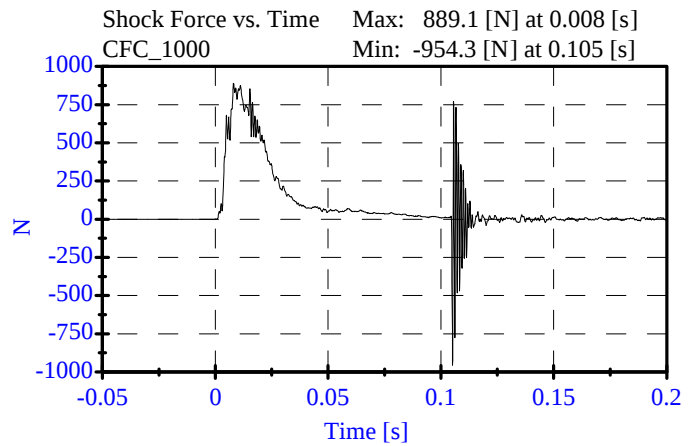
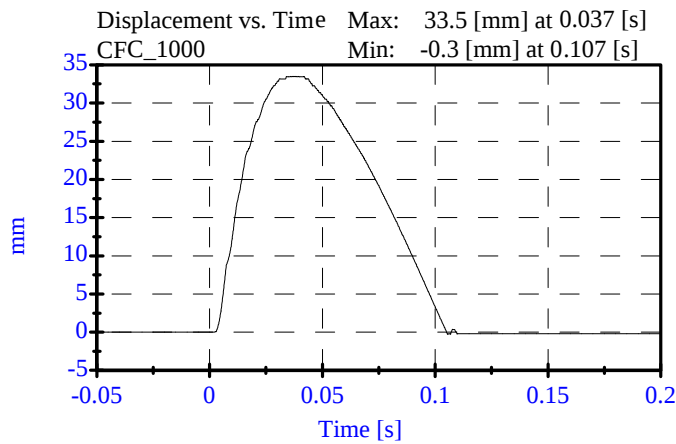
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: September 9, 2005

Sequential Test Number: 1 File: 269SL6 09-29-05
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	30.00-35.00 mm	33.51 mm	Passed
Maximum Force:	836.00-1125.00 N	889.08 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	269		
Damper Setting:	5		



Shock Impact - med (4.27 m/s)

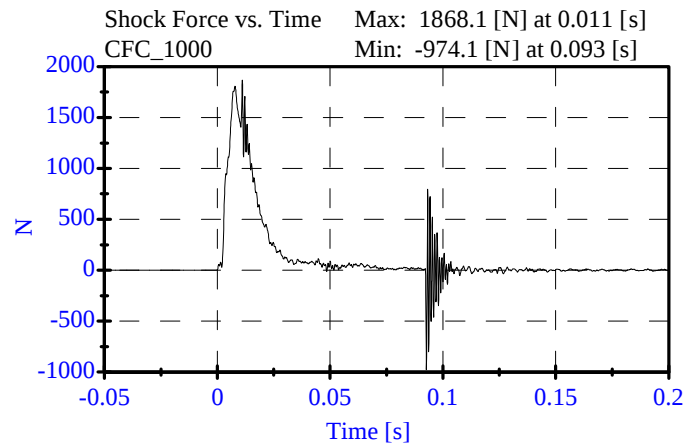
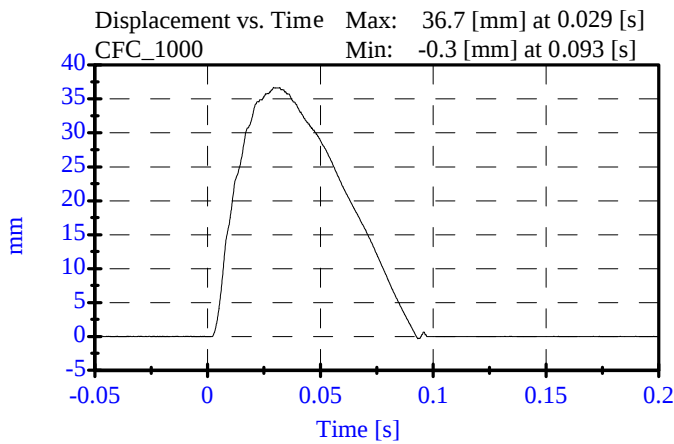
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: September 29, 2005

Sequential Test Number: 1 File: 269SM 09-29-05
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	32.00-37.00 mm	36.68 mm	Passed
Maximum Force:	1730.00-2099.00 N	1868.14 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	269		
Damper Setting:	5		



Shock Impact - high (6.10 m/s)

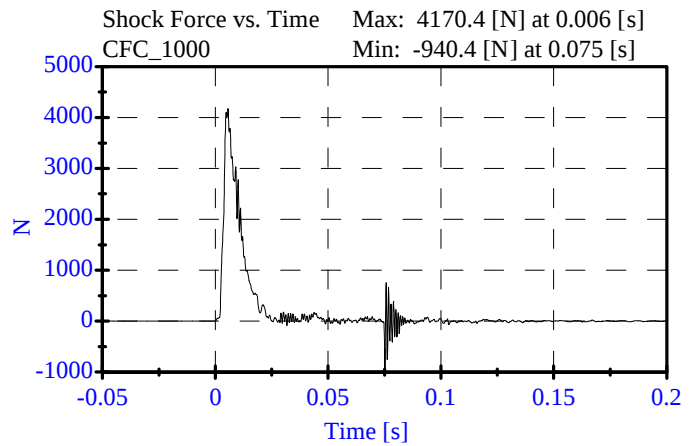
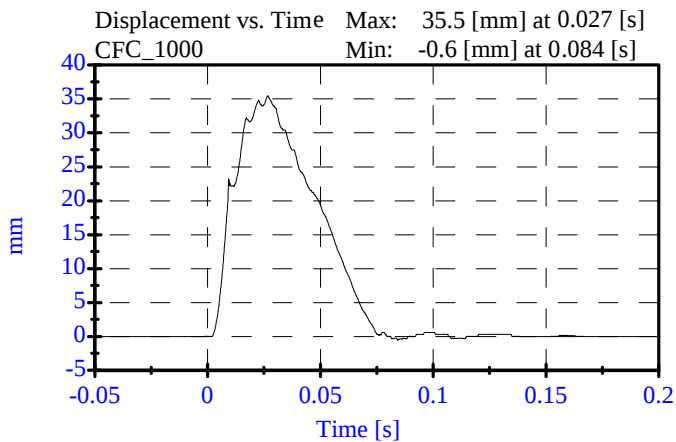
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: September 29, 2005

Sequential Test Number: 1 File: 269SH2 09-29-05
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	36.00 %	Passed
Displacement:	33.00-40.00 mm	35.46 mm	Passed
Maximum Force:	3741.00-4448.00 N	4170.44 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	269		
Damper Setting:	5		

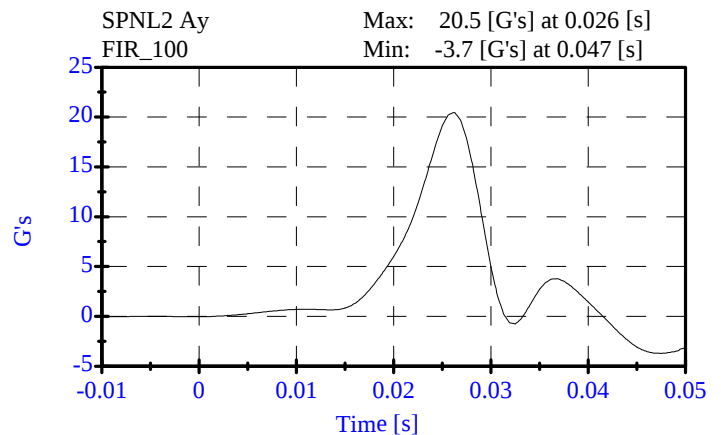
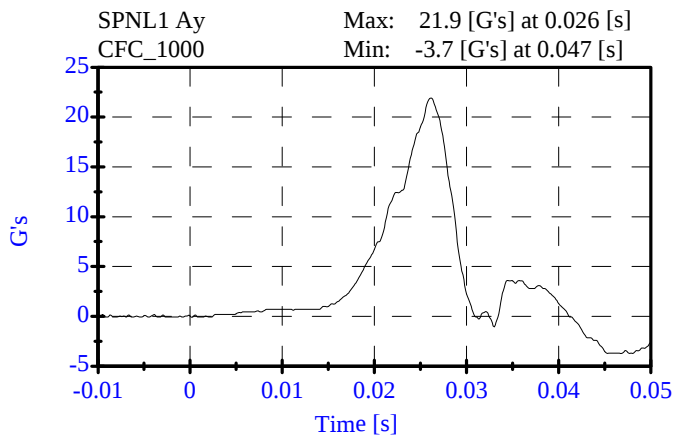
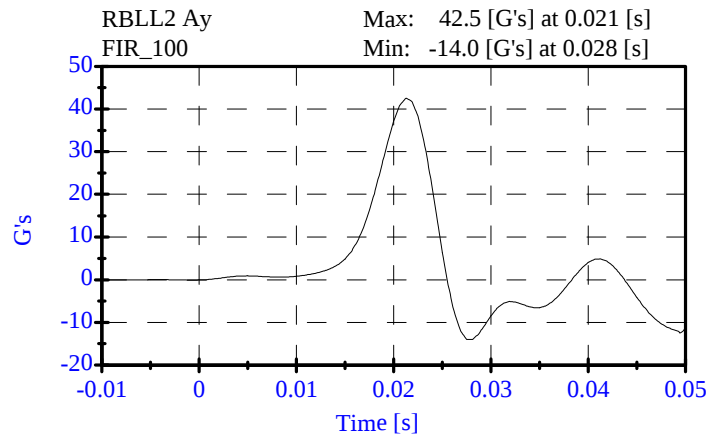
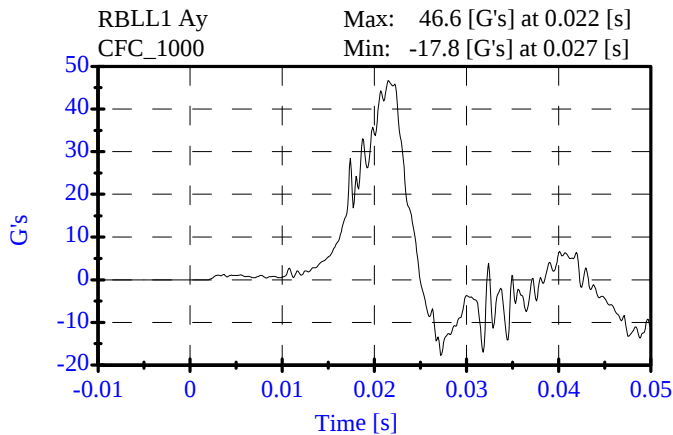
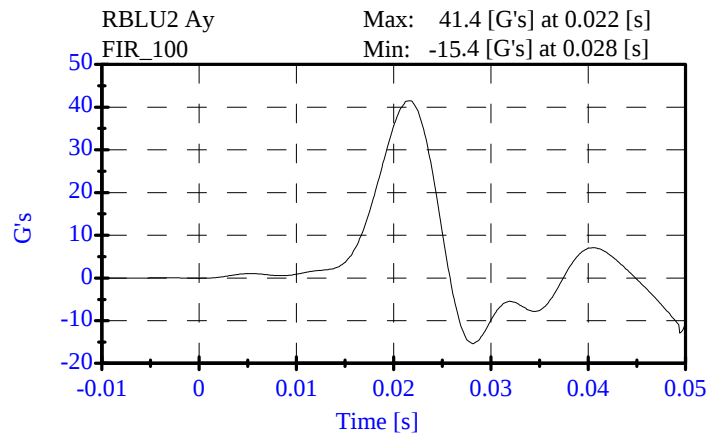
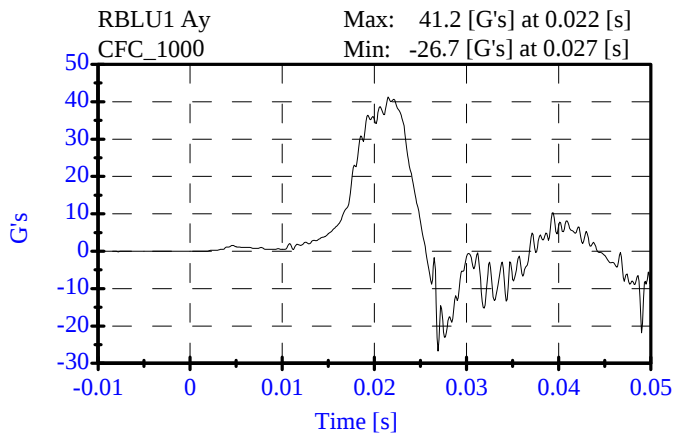


Thorax Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: June 19, 2006

Sequential Test Number: 1 File: 269T 06-19-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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	4.32 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	41.45 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	42.51 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	20.47 G's	Passed



Pelvic Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

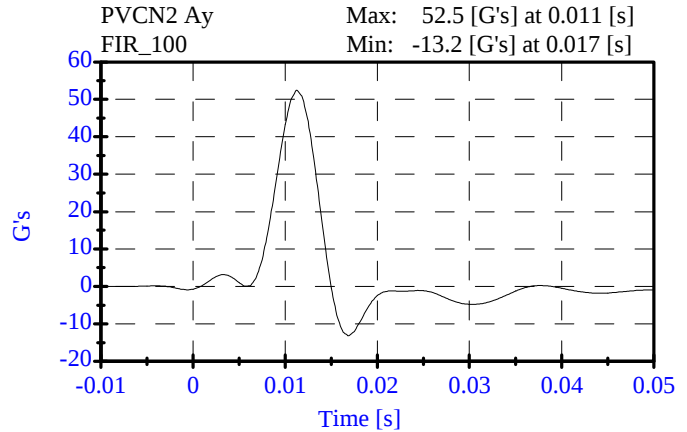
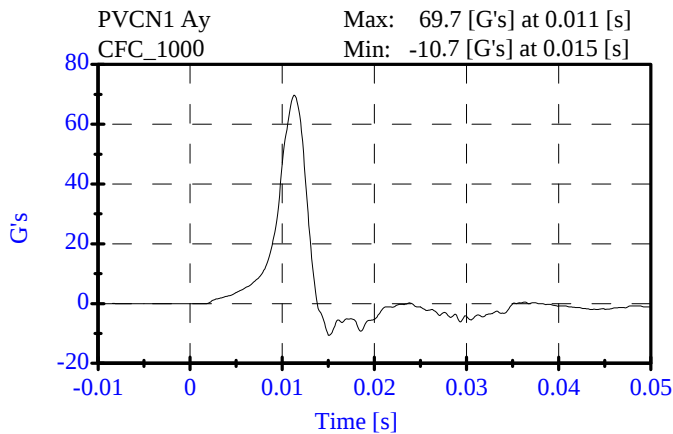
ATD Serial No: 269

Date: June 19, 2006

Sequential Test Number: 1 File: 269P 06-19-06

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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
Pelvis Y Acceleration:	40.00-60.00 G's	52.49 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.4 ms	Passed



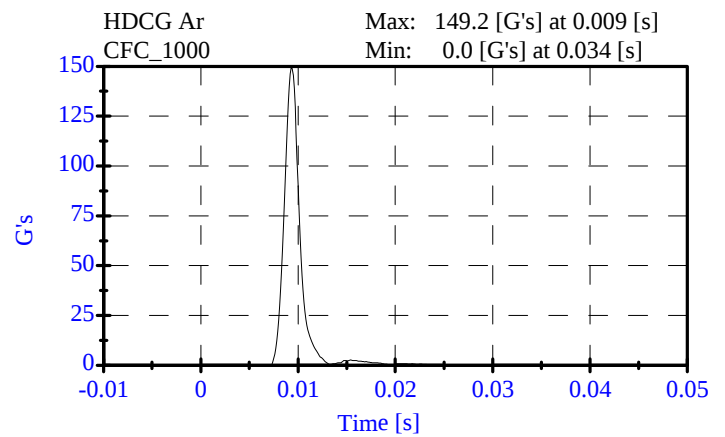
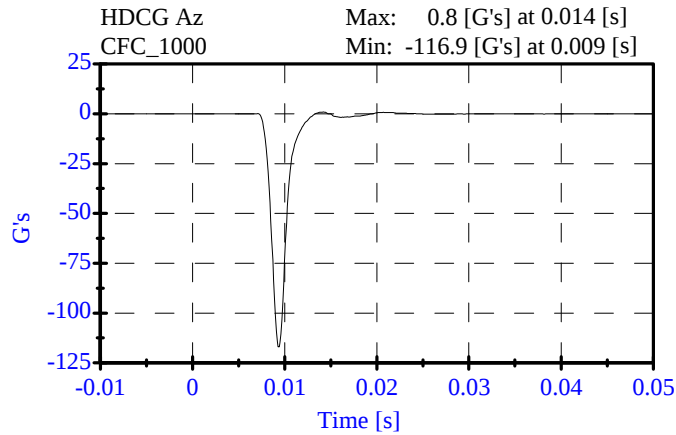
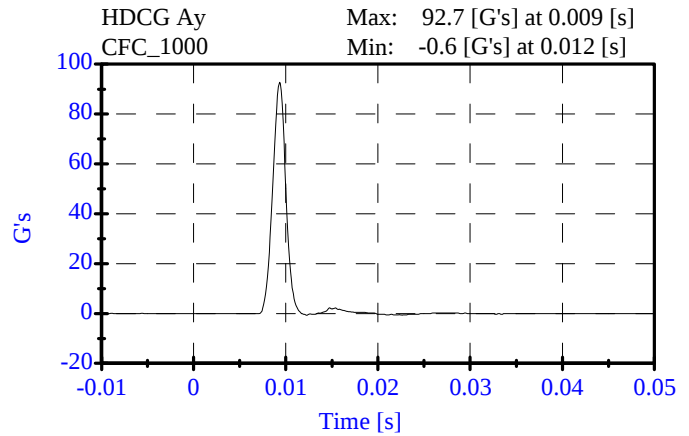
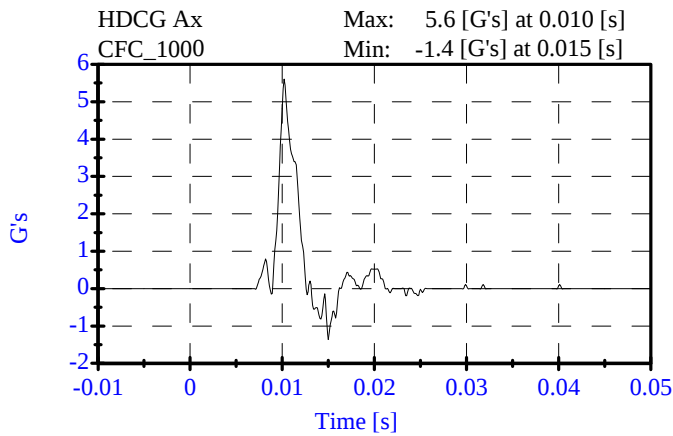
Head Drop Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: June 15, 2006

Sequential Test Number: 1 File: 269HD 06-15-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	40.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	149.22 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	5.61 Gs	Passed
Curve PerCent NonModal:	< 15%	1.81 %	Passed



Neck Test**Pre-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 269

Date: June 16, 2006

Sequential Test Number: 1 File: 269Neck 06-16-06

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 %	30.00 %	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	2.20 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.59 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.69 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.52 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	68.64 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	58.30 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	85.91 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	54.90 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	10.00 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

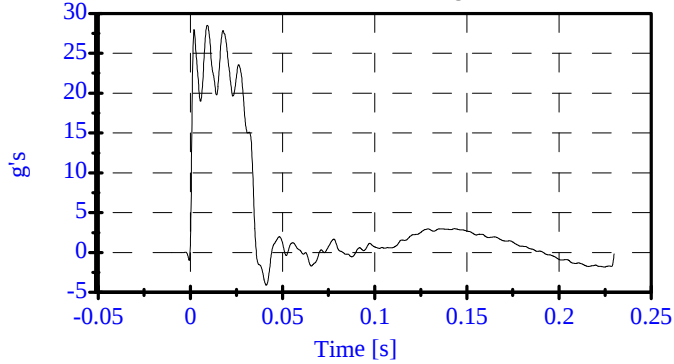
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Date: June 16, 2006

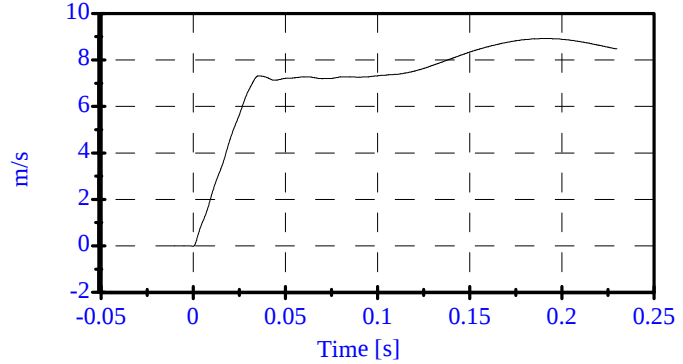
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Laboratory Technician: B. Swiecicki

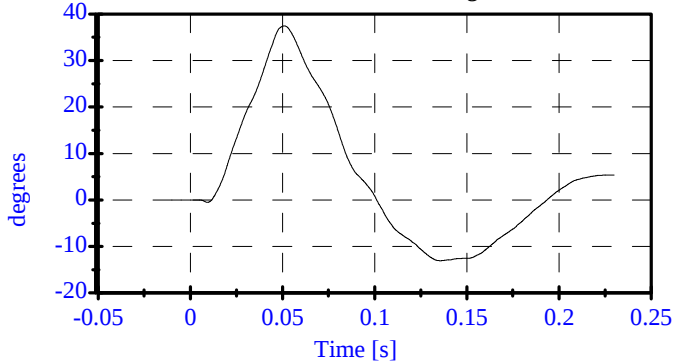
Pend Ax
CFC_180
Max: 28.5 [g's] at 0.009 [s]
Min: -4.1 [g's] at 0.041 [s]



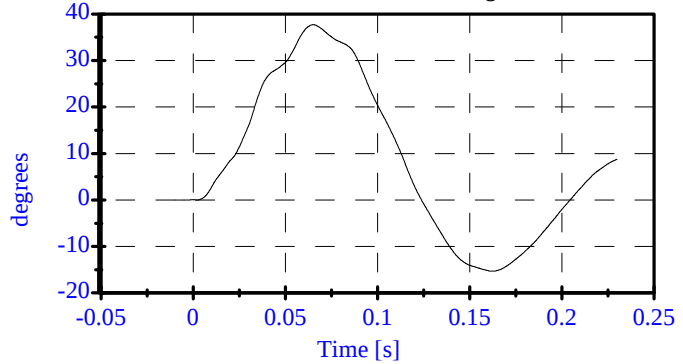
Pend Vx
CFC_180
Max: 8.9 [m/s] at 0.192 [s]
Min: -0.0 [m/s] at -0.000 [s]



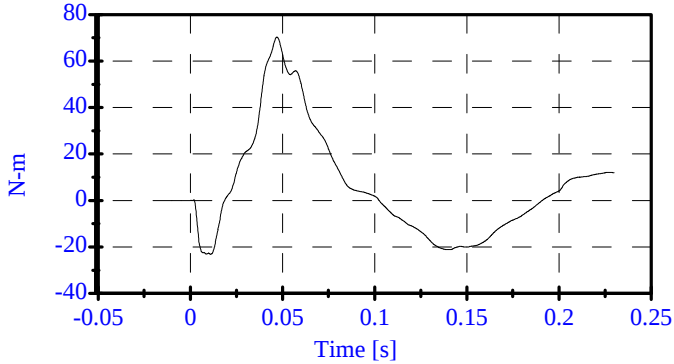
Head Rot
CFC_180
Max: 37.4 [degrees] at 0.051 [s]
Min: -13.1 [degrees] at 0.136 [s]



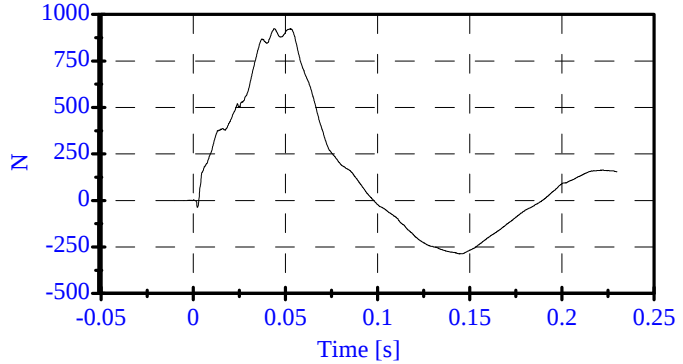
Arm Rot
CFC_180
Max: 37.7 [degrees] at 0.065 [s]
Min: -15.3 [degrees] at 0.162 [s]



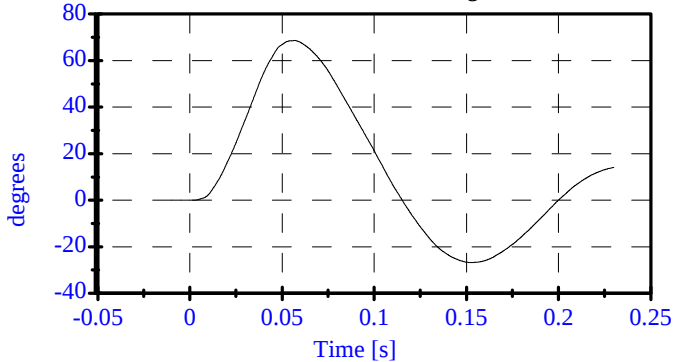
Neck Mx
CFC_600
Max: 70.3 [N-m] at 0.047 [s]
Min: -23.2 [N-m] at 0.011 [s]



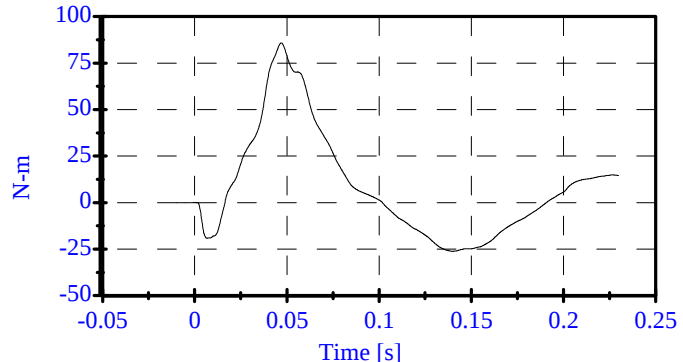
Neck Fy
CFC_1000
Max: 923.7 [N] at 0.044 [s]
Min: -288.0 [N] at 0.144 [s]



Tot Rot
CFC_180
Max: 68.6 [degrees] at 0.057 [s]
Min: -26.8 [degrees] at 0.153 [s]



MOCX
Max: 85.9 [N-m] at 0.047 [s]
Min: -26.1 [N-m] at 0.140 [s]



Abdomen

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269

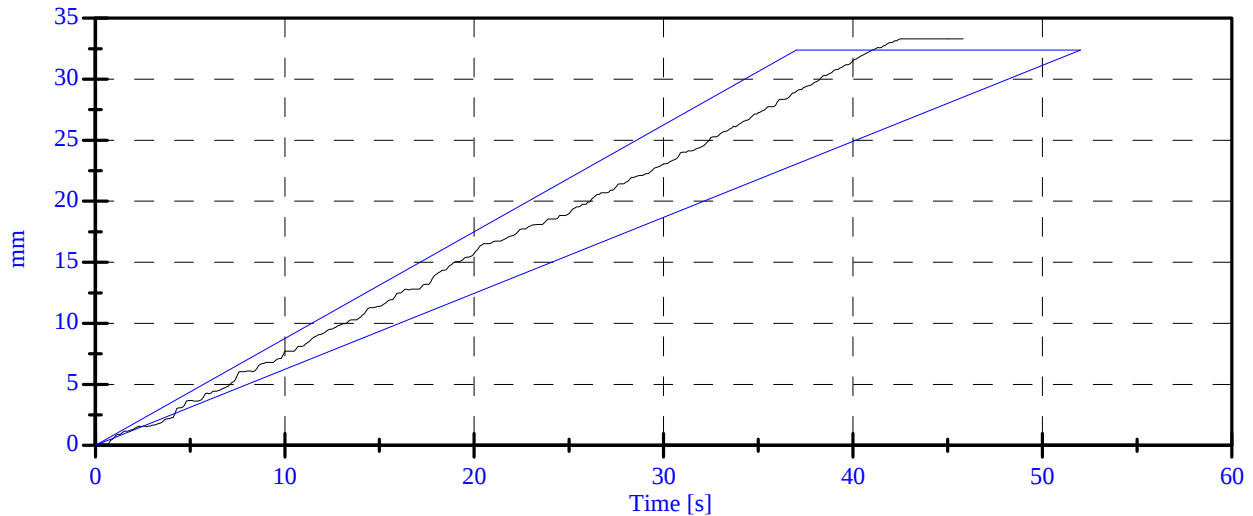
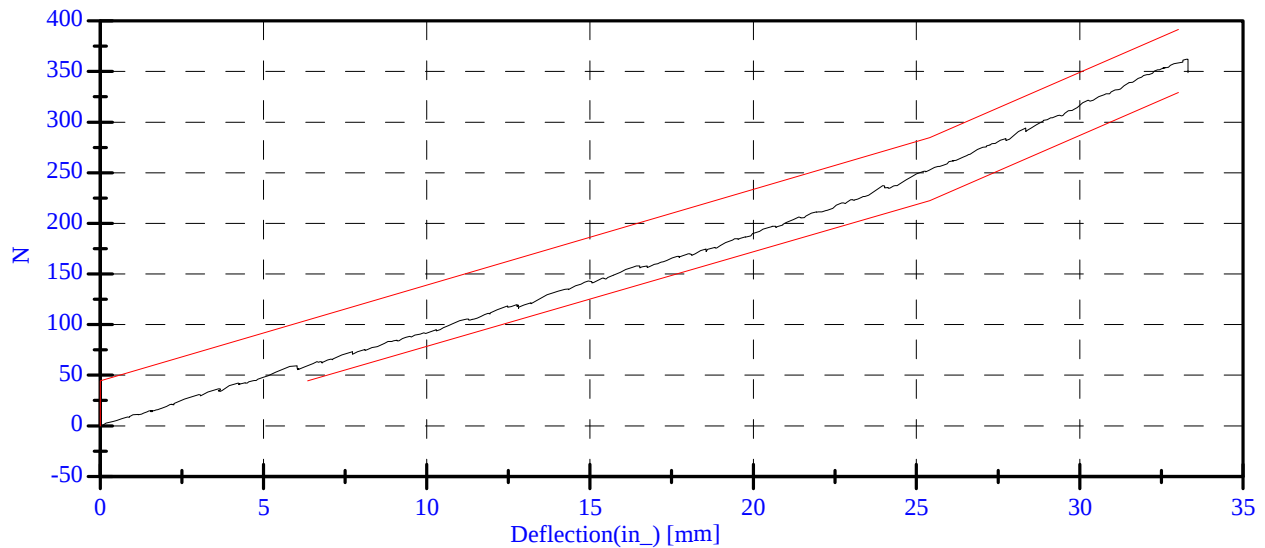
Date: June 19, 2006

Sequential Test Number: 1 File: 269AB 06-19-06

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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	119.33 N	Passed
Force at 19.05 mm :	162.98-220.99 N	178.05 N	Passed
Force at 25.40 mm :	221.97-280.02 N	252.36 N	Passed
Force at 33.02 mm :	324.99-391.00 N	358.57 N	Passed

ABDOMINAL COMPRESSION TEST



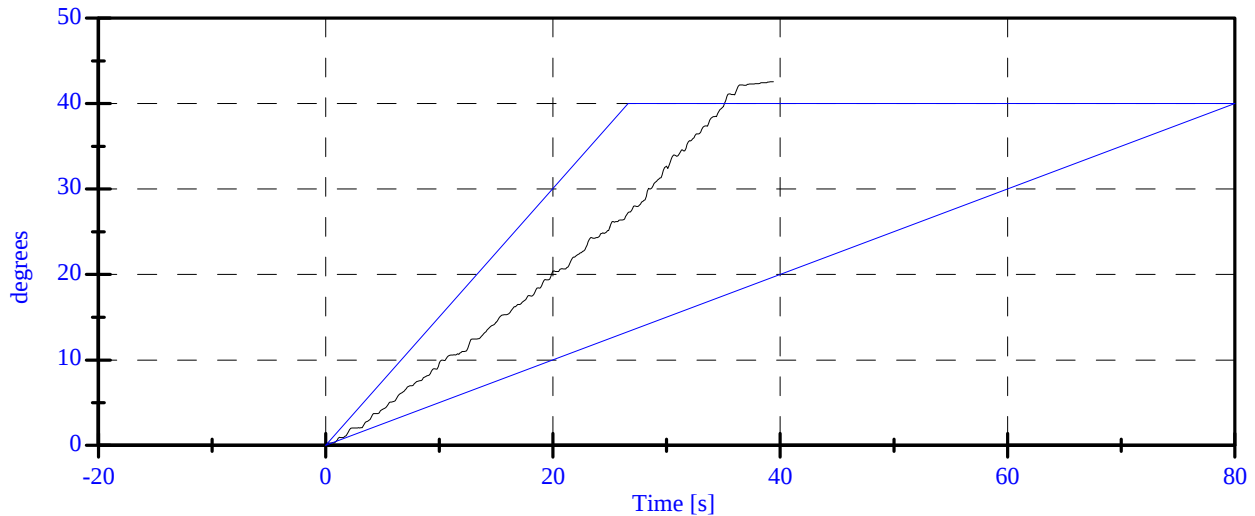
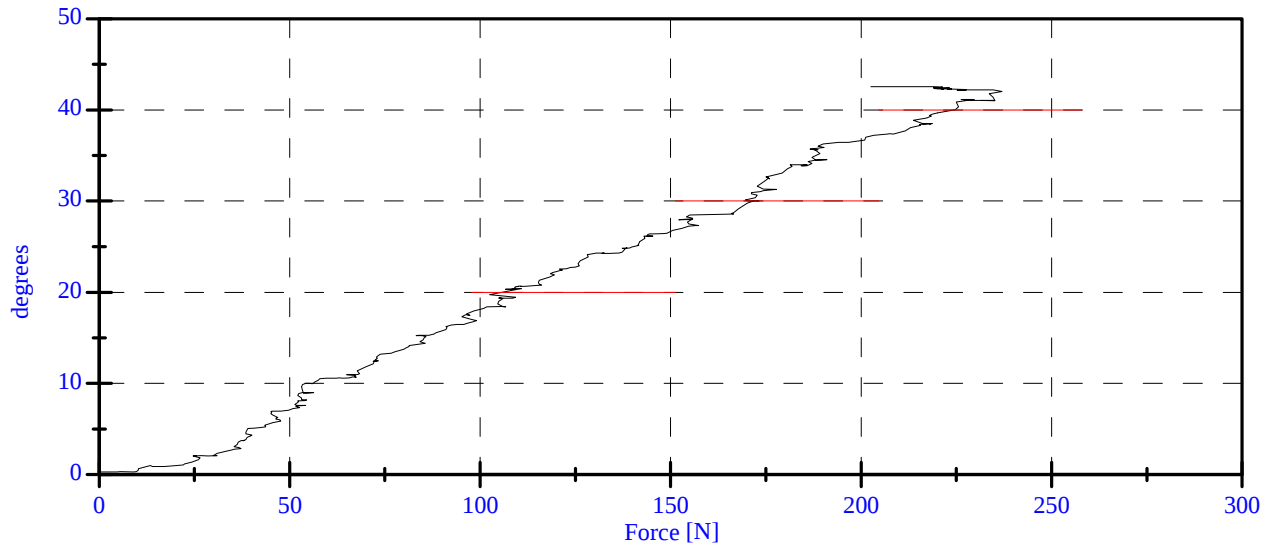
**Lumbar Spine
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 269
Date: June 19, 2006

Sequential Test Number: 1 File: 269SP 06-19-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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	0.40 N	Passed
Force at 20 Deg:	97.86-151.24 N	107.73 N	Passed
Force at 30 Deg:	151.24-204.62 N	173.28 N	Passed
Force at 40 Deg:	204.62-258.00 N	224.73 N	Passed
Return Angle	12 Deg Max	1.24 deg	Passed

LUMBAR SPINE FLEXION TEST



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 3
 Date: June 16, 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.: 270

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270	Sequential Test Number: 3
Date: June 16, 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.: 270 Sequential Test Number: 3
Date: June 16, 2006 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	899
RH- Rib Height (mm)	502 - 520	505
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
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	381

REMARKS: None

Shock Impact - Low (3.05 m/s)

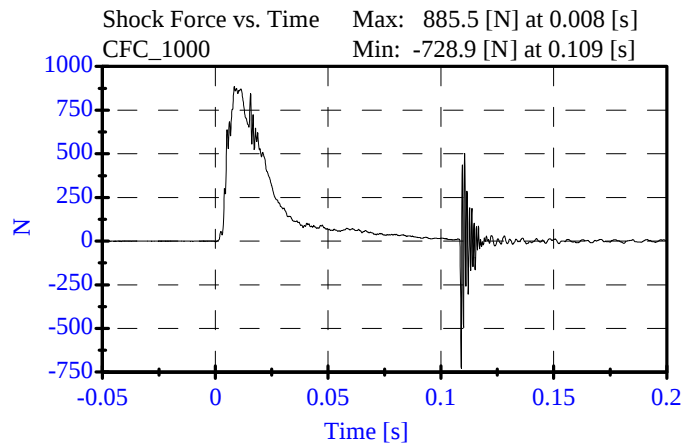
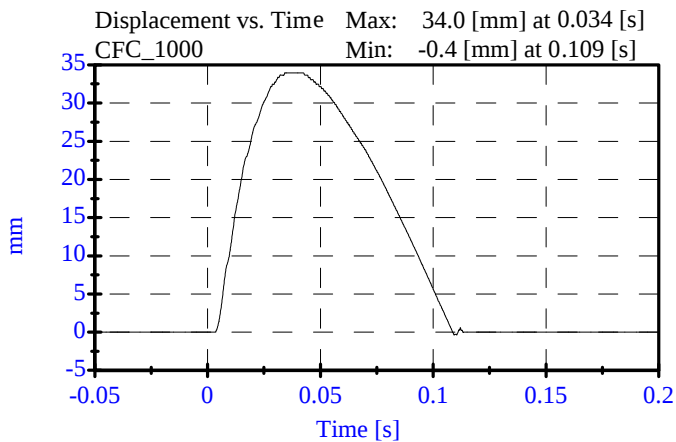
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: September 29, 2005

Sequential Test Number: 1 File: 270SL1 09-29-05
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	30.00-35.00 mm	34.00 mm	Passed
Maximum Force:	836.00-1125.00 N	885.47 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	270		
Damper Setting:	5		



Shock - Med (4.27 m/s)

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

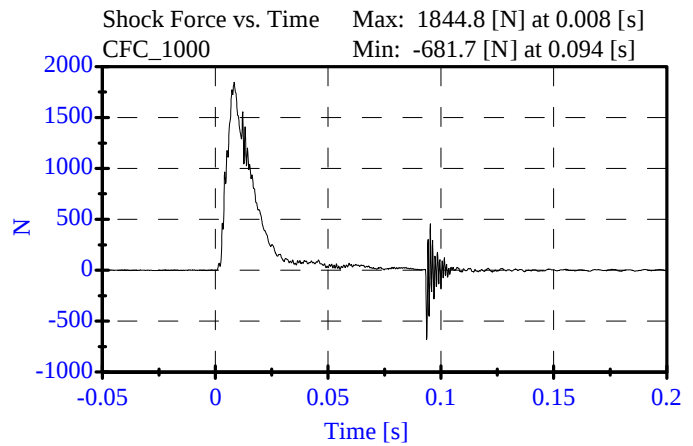
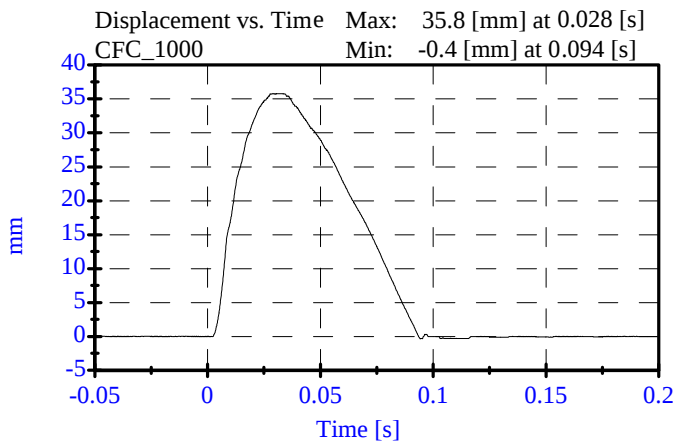
ATD Serial No: 270

Date: September 29, 2005

Sequential Test Number: 1 File: 270SM1 09-29-05

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	32.00-37.00 mm	35.76 mm	Passed
Maximum Force:	1730.00-2099.00 N	1844.81 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	270		
Damper Setting:	5		



Shock Impact - high (6.10 m/s)

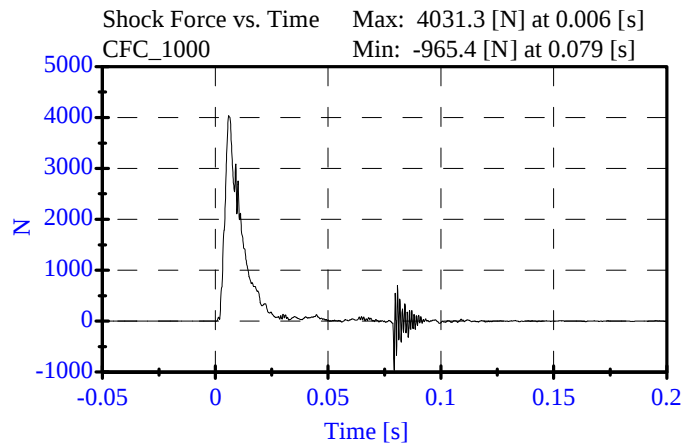
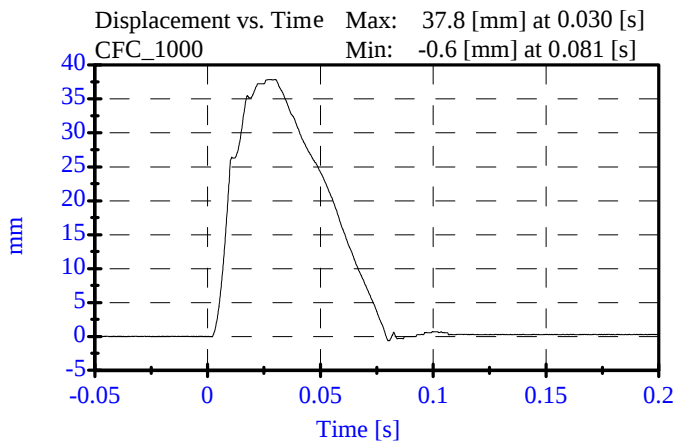
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: September 29, 2005

Sequential Test Number: 1 File: 270SH 09-29-05
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	33.00-40.00 mm	37.82 mm	Passed
Maximum Force:	3741.00-4448.00 N	4031.26 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	270		
Damper Setting:	5		

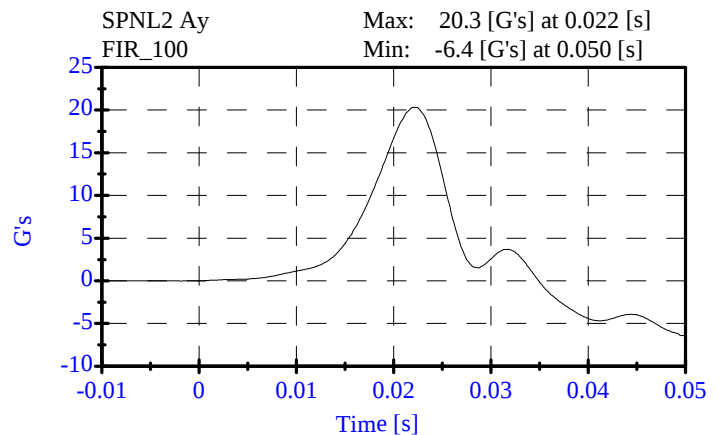
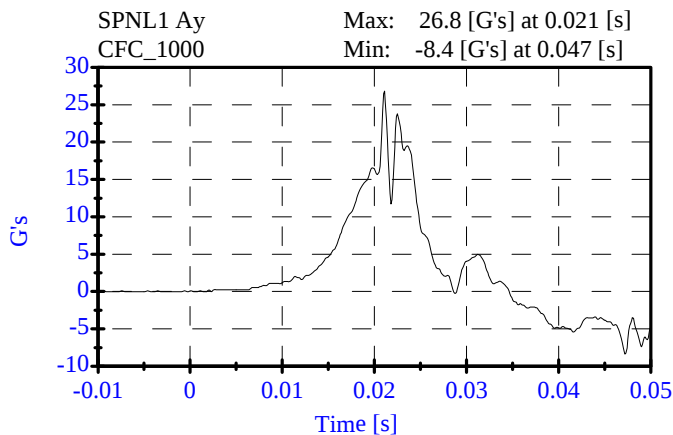
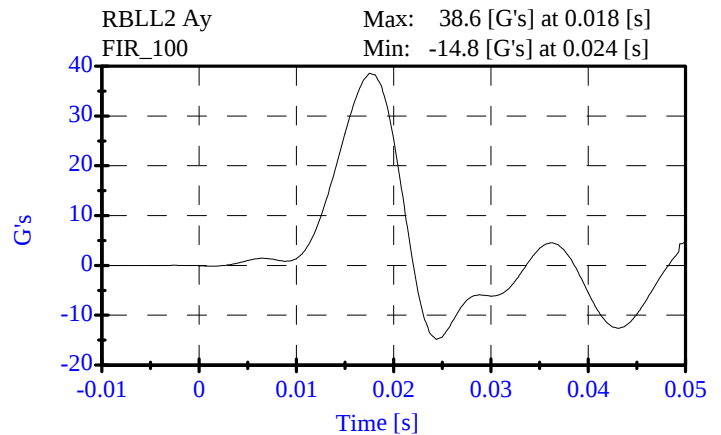
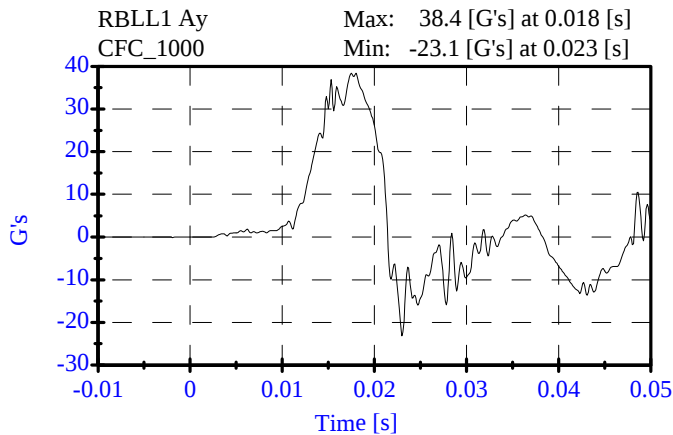
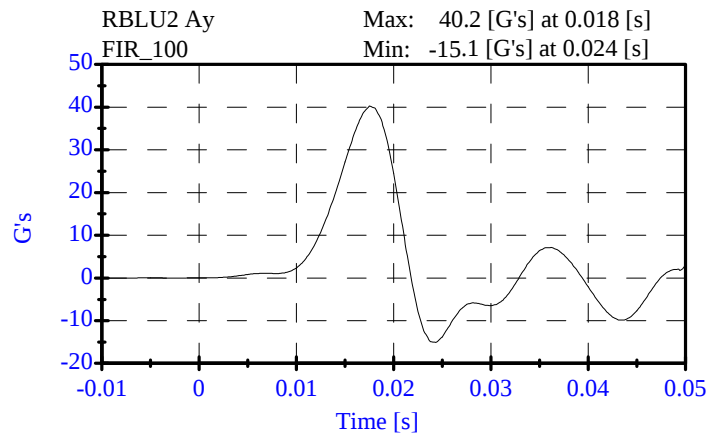
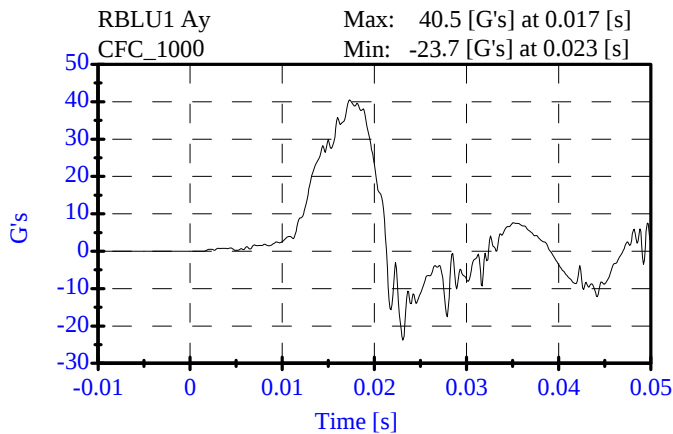


Thorax Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: June 19, 2006

Sequential Test Number: 1 File: 270T 06-19-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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	4.32 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	40.25 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	38.58 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	20.31 G's	Passed



Pelvic Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

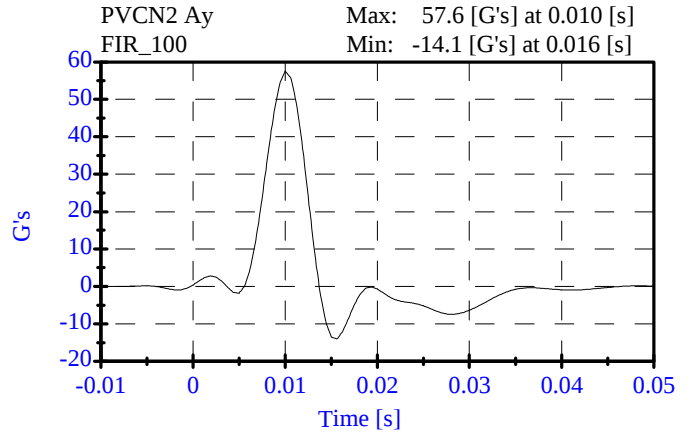
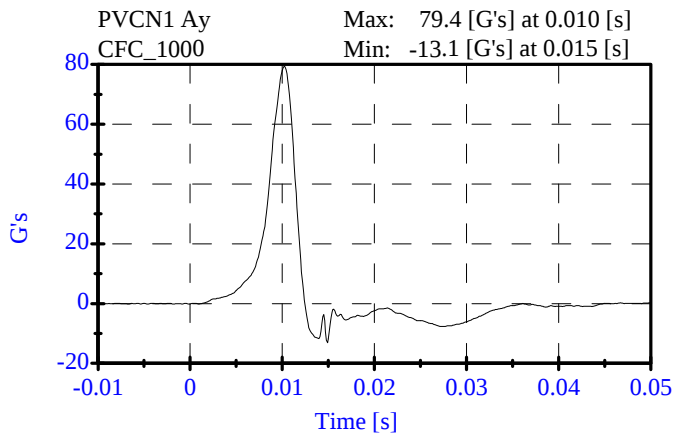
ATD Serial No: 270

Date: June 19, 2006

Sequential Test Number: 1 File: 270P 06-19-06

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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
Pelvis Y Acceleration:	40.00-60.00 G's	57.57 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.4 ms	Passed

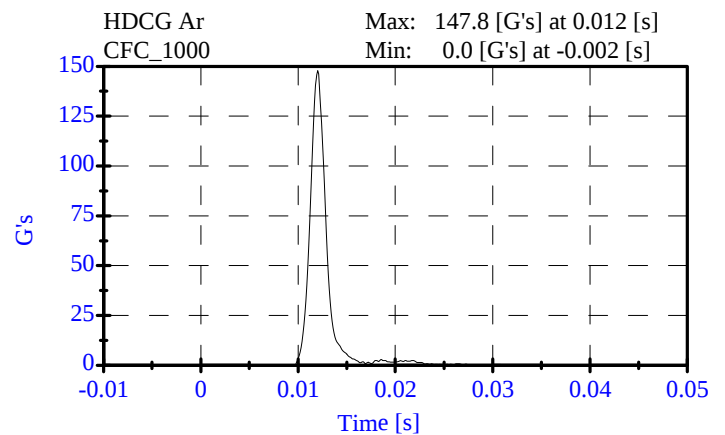
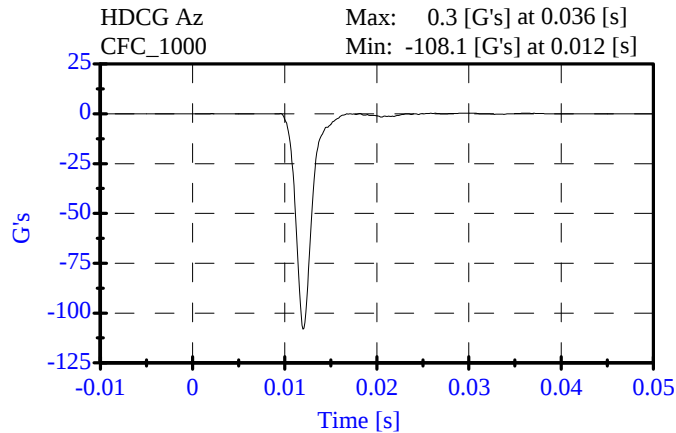
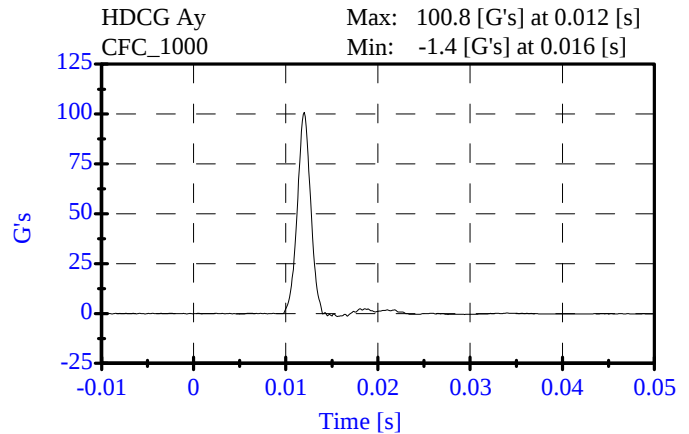
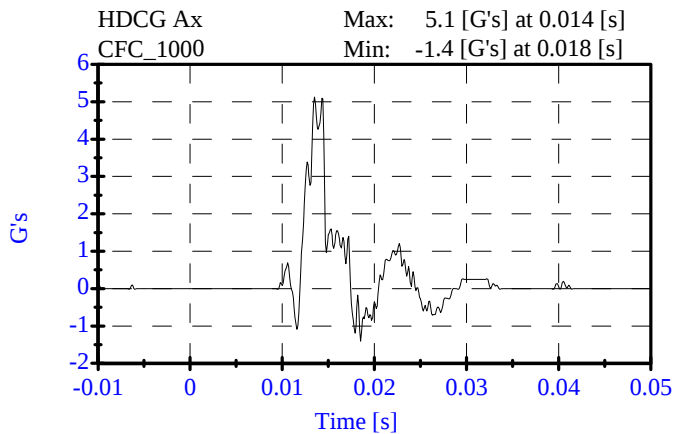


Head Drop Pre-Test CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: June 15, 2006

Sequential Test Number: 1 File: 270HD 06-15-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	40.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	147.81 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	5.13 Gs	Passed
Curve PerCent NonModal:	< 15%	1.94 %	Passed



Neck Test**Pre-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270

Date: June 15, 2006

Sequential Test Number: 1 File: 270Neck 06-15-06

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 %	40.00 %	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	2.33 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.76 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.90 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.56 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	69.31 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	59.40 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	86.01 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	9.20 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

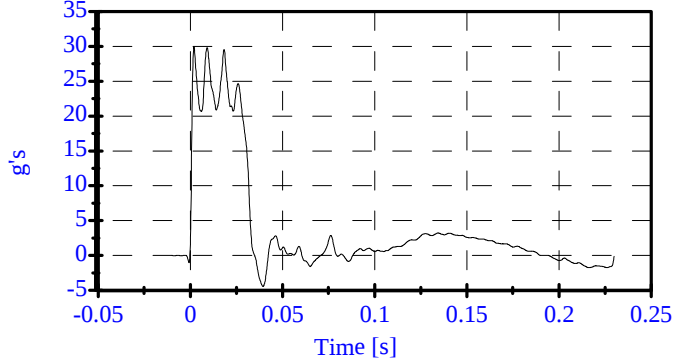
ATD Serial No: 270

Date: June 15, 2006

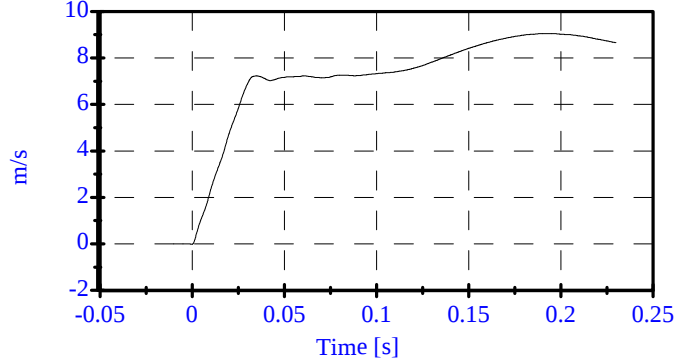
Sequential Test Number: 1 File: 270Neck 06-15-06

Laboratory Technician: B. Swiecicki

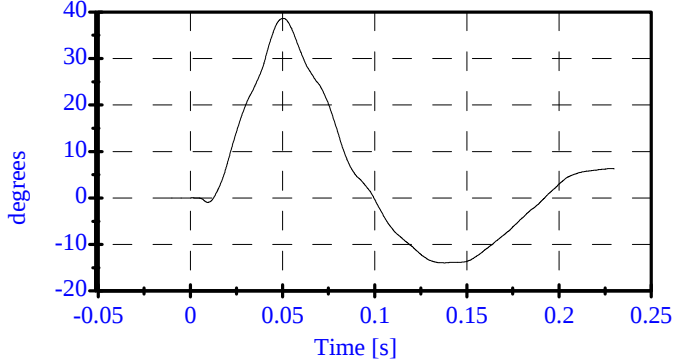
Pend Ax
CFC_180
Max: 30.0 [g's] at 0.002 [s]
Min: -4.4 [g's] at 0.039 [s]



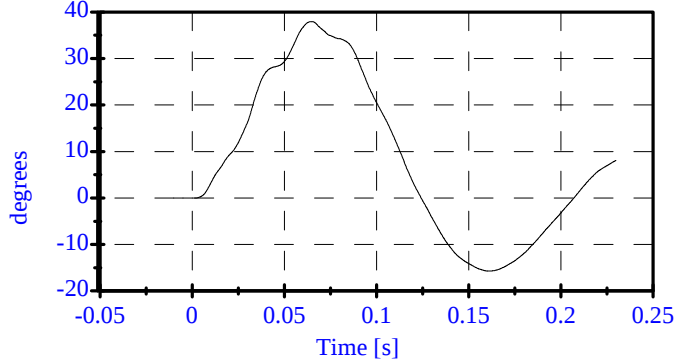
Pend Vx
CFC_180
Max: 9.0 [m/s] at 0.195 [s]
Min: -0.0 [m/s] at -0.000 [s]



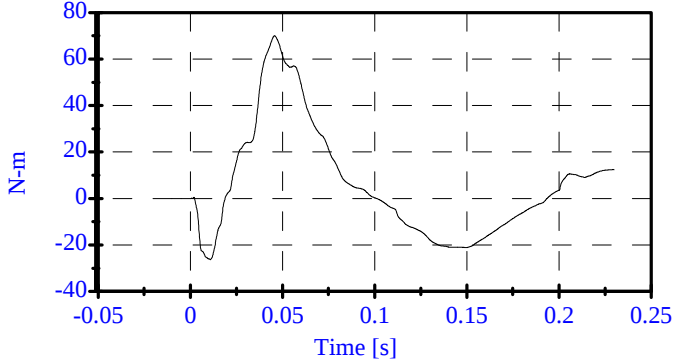
Head Rot
CFC_180
Max: 38.6 [degrees] at 0.050 [s]
Min: -14.0 [degrees] at 0.138 [s]



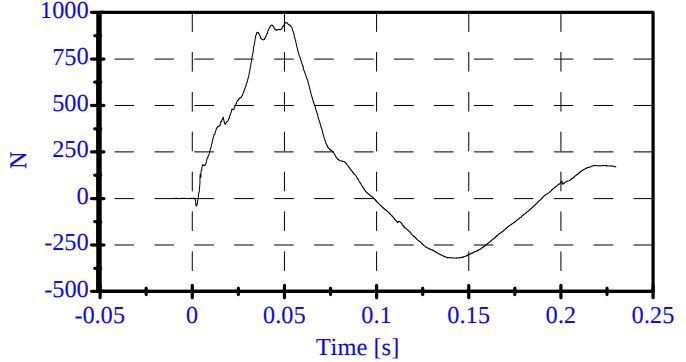
Arm Rot
CFC_180
Max: 37.9 [degrees] at 0.065 [s]
Min: -15.7 [degrees] at 0.161 [s]



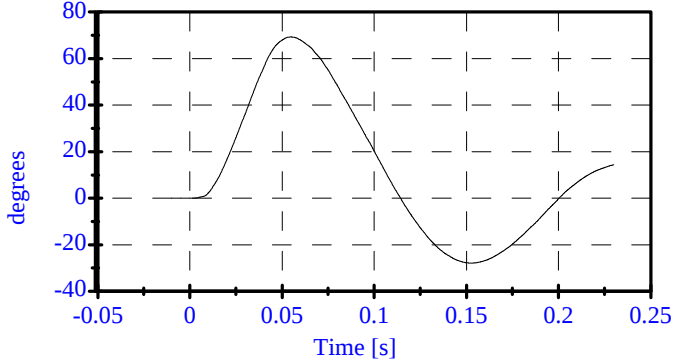
Neck Mx
CFC_600
Max: 69.9 [N-m] at 0.046 [s]
Min: -26.3 [N-m] at 0.011 [s]



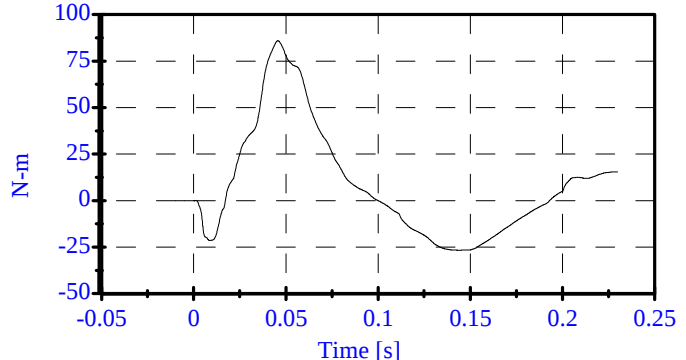
Neck Fy
CFC_1000
Max: 946.7 [N] at 0.051 [s]
Min: -321.8 [N] at 0.143 [s]



Tot Rot
CFC_180
Max: 69.3 [degrees] at 0.055 [s]
Min: -27.9 [degrees] at 0.153 [s]



MOCX
Max: 86.0 [N-m] at 0.046 [s]
Min: -26.7 [N-m] at 0.144 [s]



**Abdomen
Pre-Test**

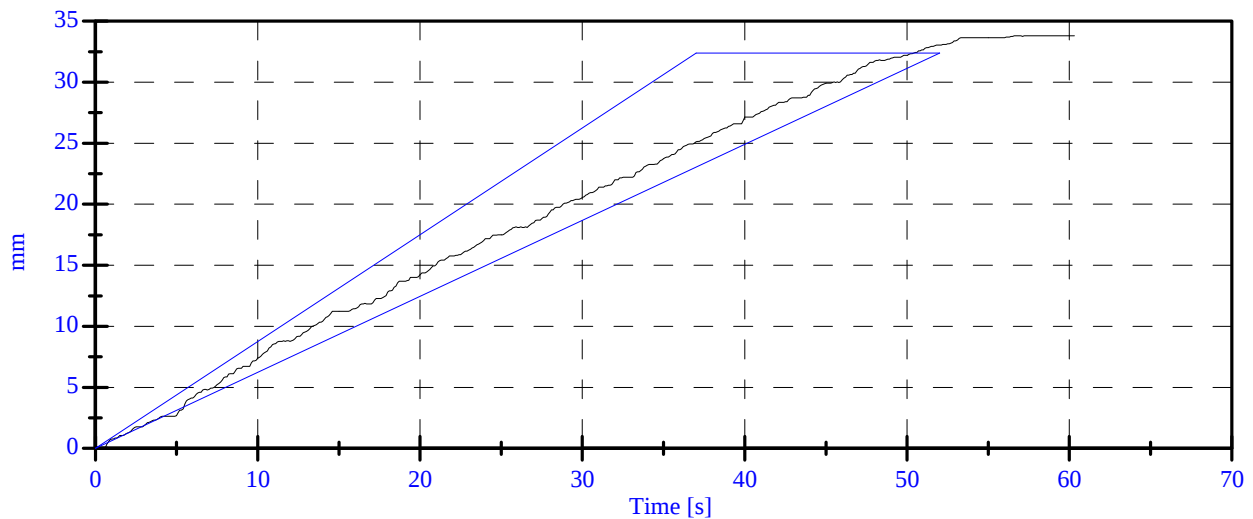
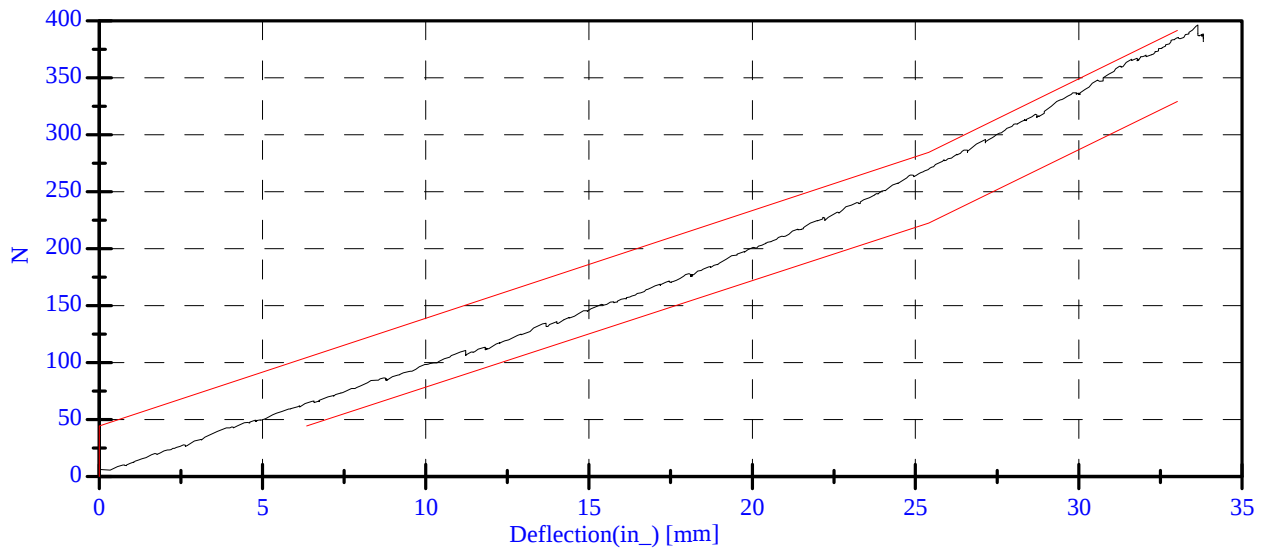
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: June 19, 2006

Sequential Test Number: 1 File: 270AB 06-19-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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	125.13 N	Passed
Force at 19.05 mm :	162.98-220.99 N	187.48 N	Passed
Force at 25.40 mm :	221.97-280.02 N	269.40 N	Passed
Force at 33.02 mm :	324.99-391.00 N	385.39 N	Passed

ABDOMINAL COMPRESSION TEST



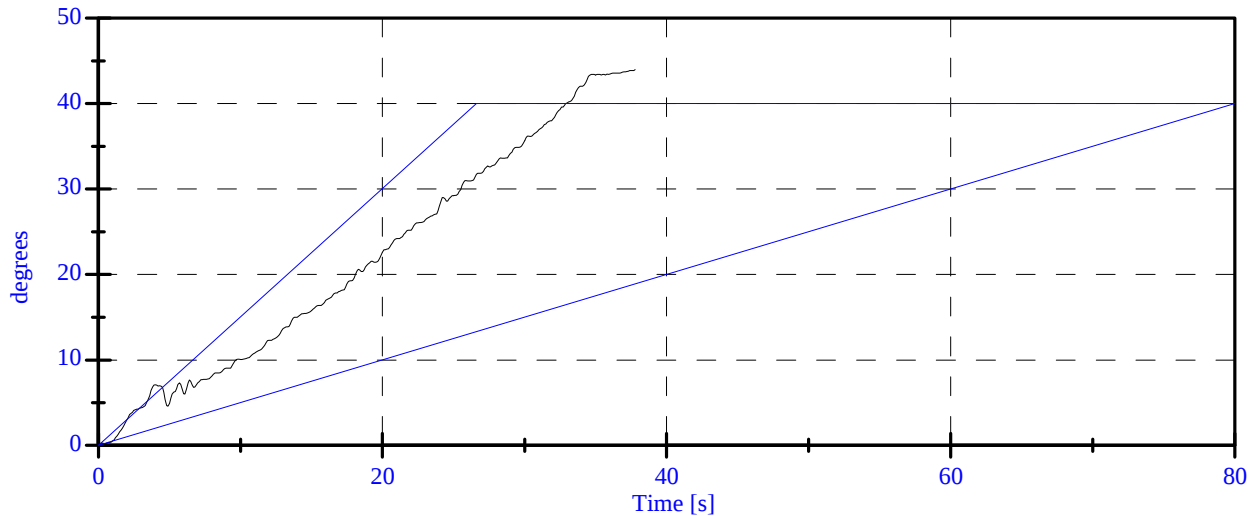
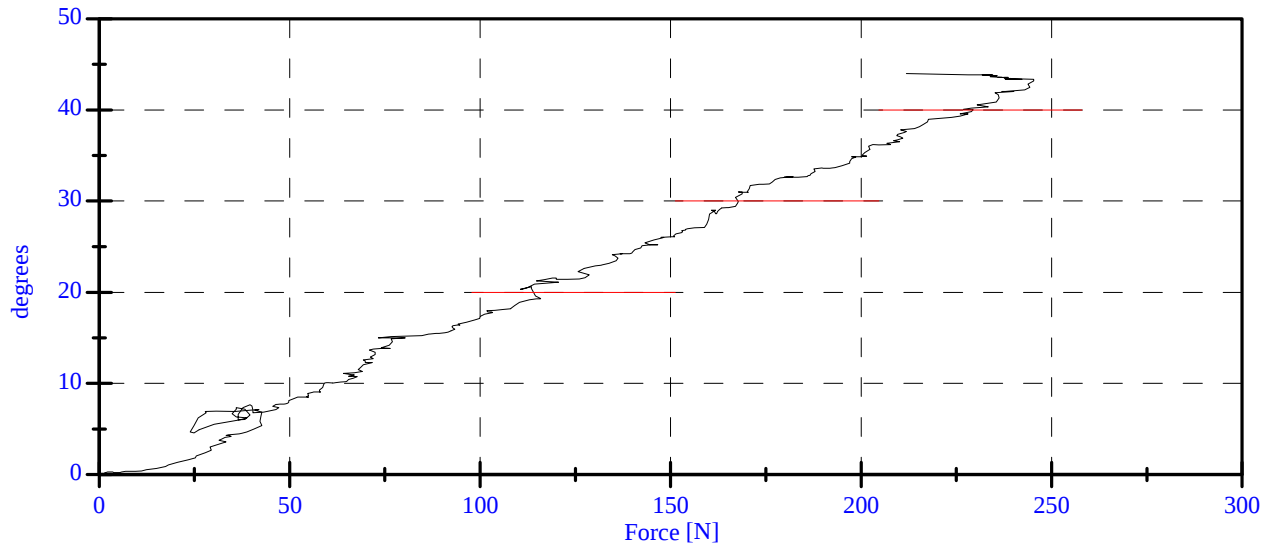
**Lumbar Spine
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270
Date: June 19, 2006

Sequential Test Number: 1 File: 270SP 06-19-06
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
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	1.44 N	Passed
Force at 20 Deg:	97.86-151.24 N	114.00 N	Passed
Force at 30 Deg	151.24-204.62 N	167.80 N	Passed
Force at 40 Deg	204.62-258.00 N	229.43 N	Passed
Return Angle	12 Deg Max	4.17 deg	Passed

LUMBAR SPINE FLEXION TEST



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 3
 Date: June 16, 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.: 269

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 4
Date: July 19, 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.: 269	Sequential Test Number: 4
Date: July 19, 2006	Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	899
RH- Rib Height (mm)	502 - 520	508
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
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	378

REMARKS: None

SID Thorax Test S/N:269

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

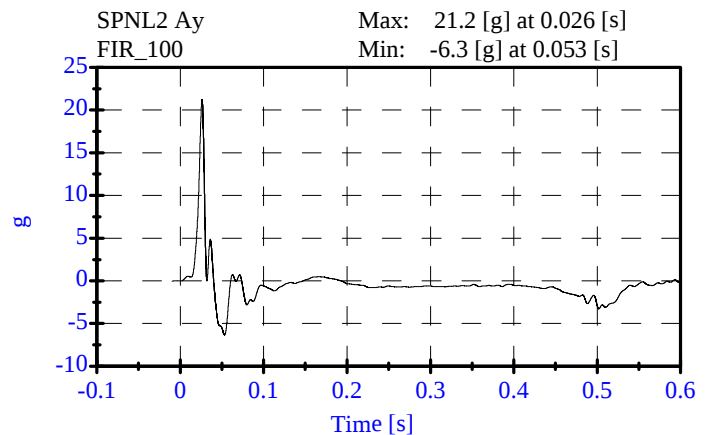
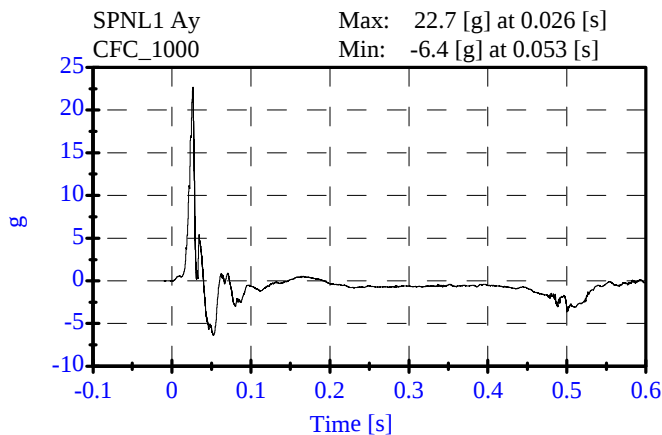
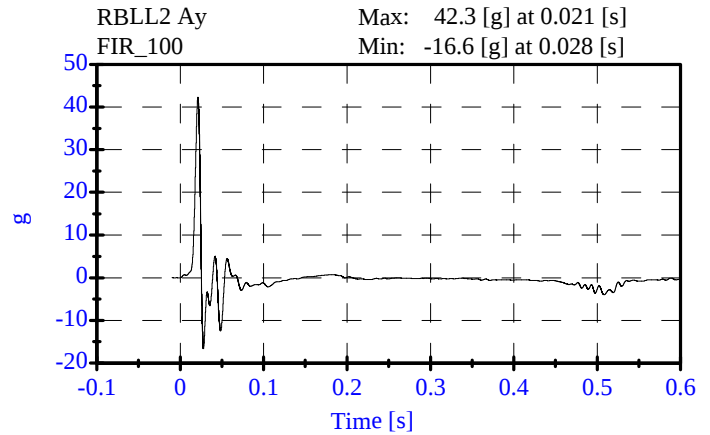
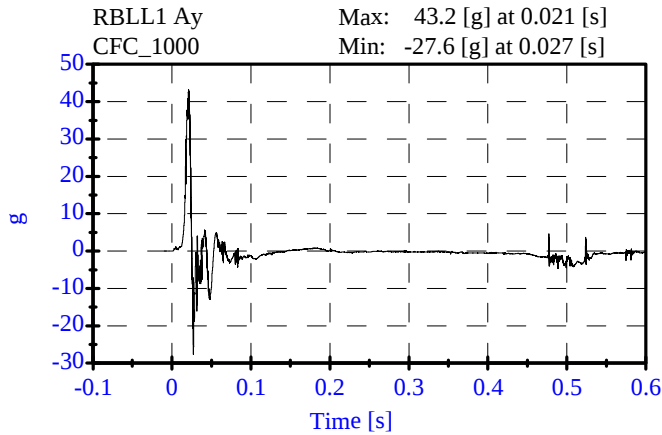
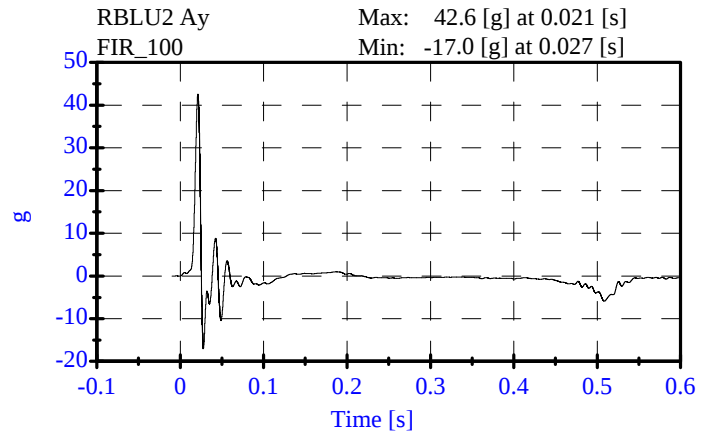
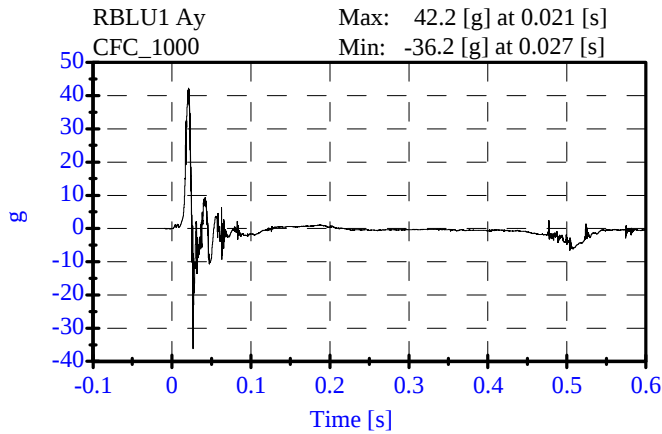
ATD Serial No: 269

Date: July 24, 2006

Sequential Test Number: 1 File: test1

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 g	42.57 g	Passed
Lower Rib Acceleration:	37.00-46.00 g	42.28 g	Passed
Lower Spine Acceleration:	15.00-22.00 g	21.24 g	Passed



SID Pelvic Test S/N:269

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

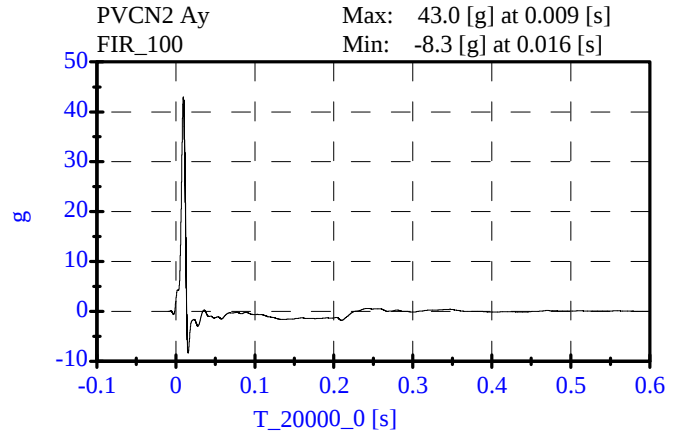
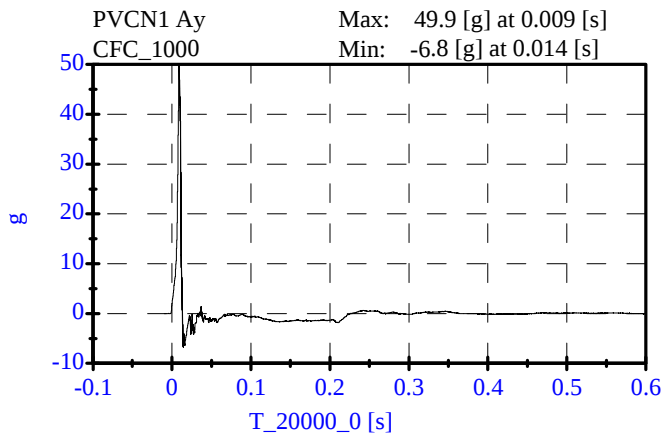
ATD Serial No: 269

Date: July 24, 2006

Sequential Test Number: 1 File: test1

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.30 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 g	42.97 g	Passed
Time Above 20 Gs	3.0-7.0 ms	5.5 ms	Passed

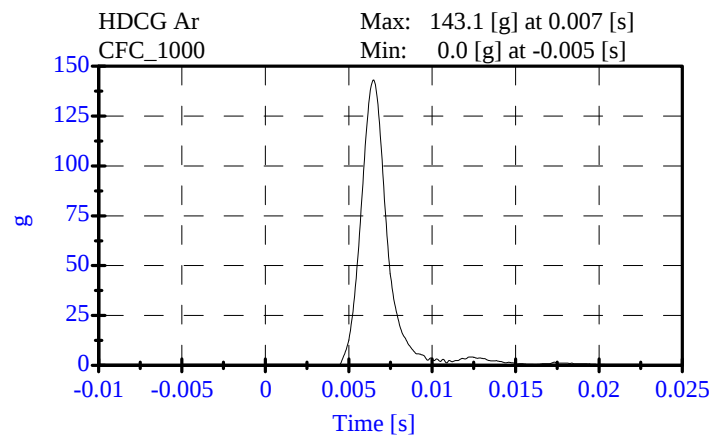
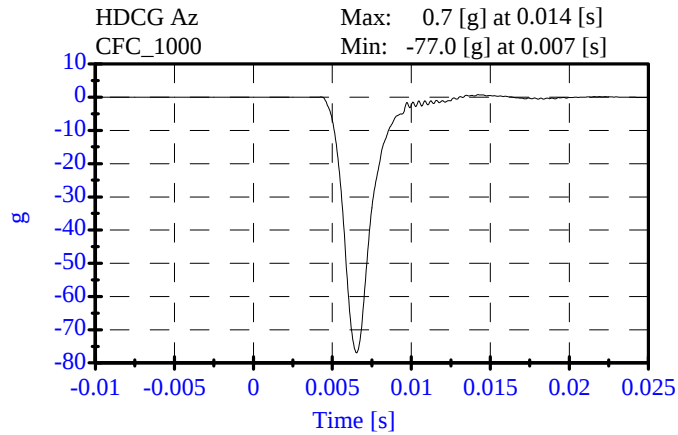
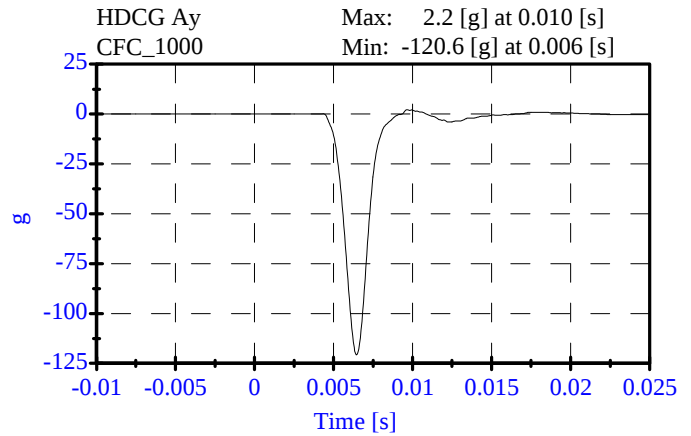
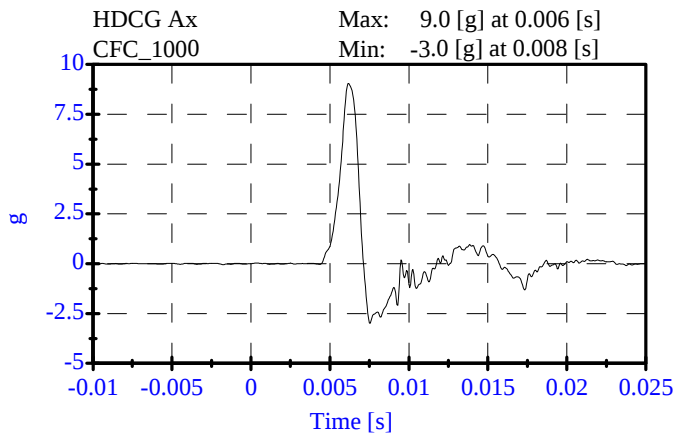


SID HYIII Head Drop Test S/N:269
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: July 19, 2006

Sequential Test Number: 1 File: 1001
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 %	50.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	143.11 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	9.04 Gs	Passed
Curve PerCent NonModal:	< 15%	2.91 %	Passed



SID Head Neck Test 1 S/N:269**Post-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 269

Date: July 19, 2006

Sequential Test Number: 1 File: tst1

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 %	50.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.92 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.20 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.64 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.68 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.41 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	66.35 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	62.65 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	77.71 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	58.35 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	12.55 ms	Passed

SID Head Neck Test 1 S/N:269

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

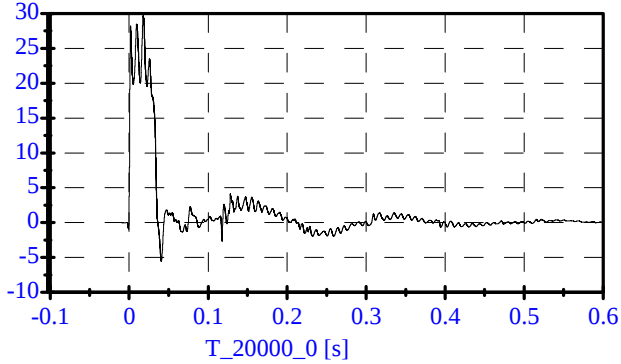
ATD Serial No: 269

Date: July 19, 2006

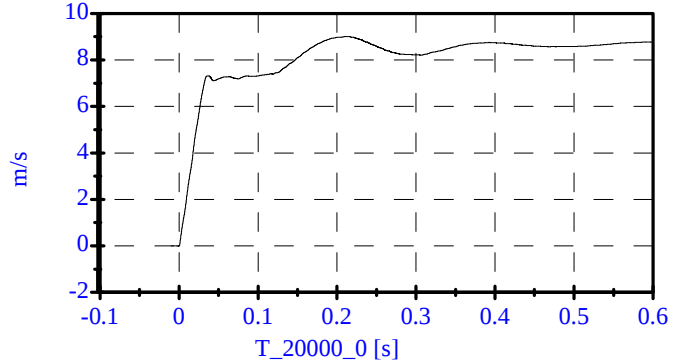
Sequential Test Number: 1 File: tst1

Laboratory Technician: B. Swiecicki

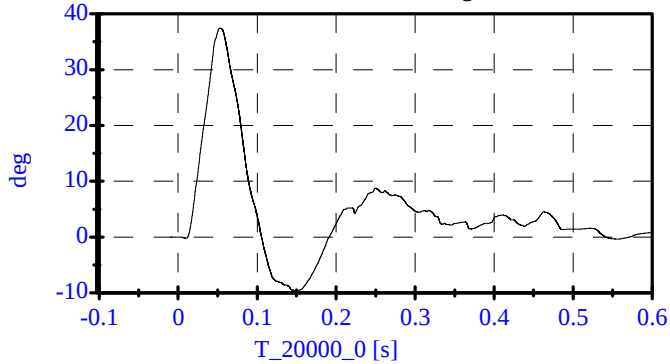
Pend Ax
CFC_180
Max: 29.7 [] at 0.018 [s]
Min: -5.5 [] at 0.041 [s]



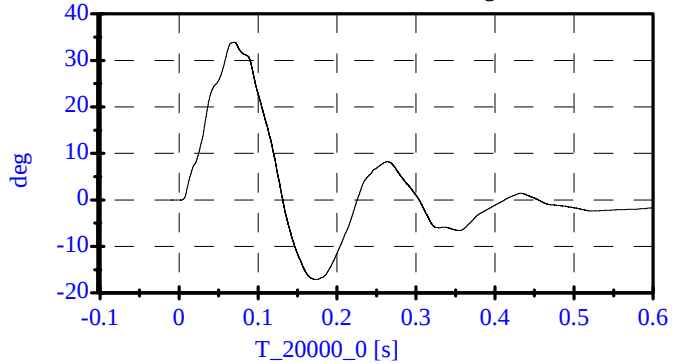
Pend Vx
CFC_180
Max: 9.0 [m/s] at 0.212 [s]
Min: -0.0 [m/s] at -0.000 [s]



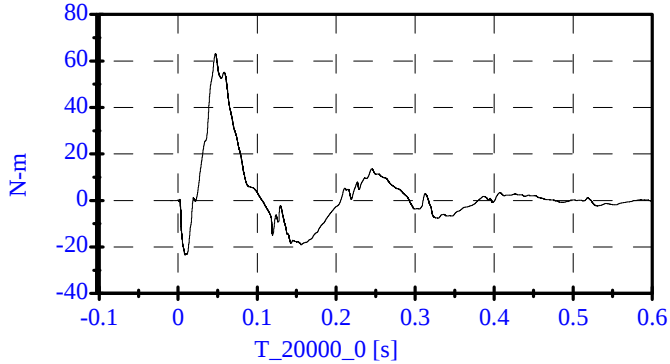
Head Rot
CFC_180
Max: 37.5 [deg] at 0.053 [s]
Min: -9.6 [deg] at 0.148 [s]



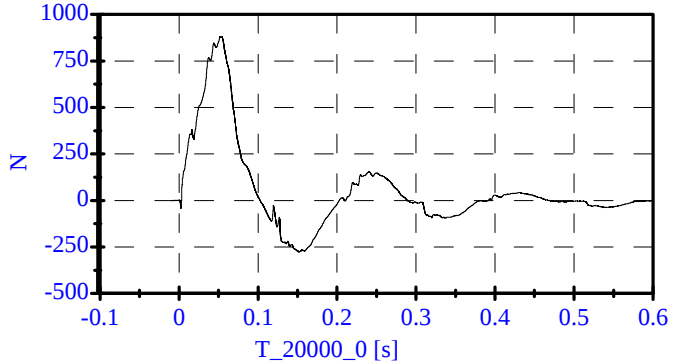
Arm Rot
CFC_180
Max: 33.9 [deg] at 0.070 [s]
Min: -17.1 [deg] at 0.172 [s]



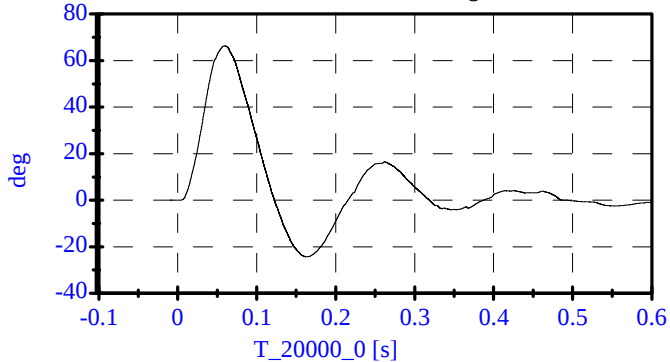
Neck Mx
CFC_600
Max: 63.1 [N-m] at 0.047 [s]
Min: -23.4 [N-m] at 0.009 [s]



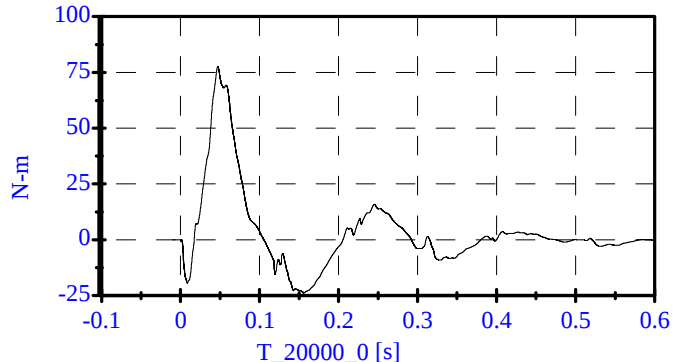
Neck Fy
CFC_1000
Max: 882.0 [N] at 0.052 [s]
Min: -279.0 [N] at 0.152 [s]



Tot Rot
CFC_180
Max: 66.3 [deg] at 0.060 [s]
Min: -24.3 [deg] at 0.162 [s]



MOCX
Max: 77.7 [N-m] at 0.047 [s]
Min: -23.9 [N-m] at 0.156 [s]



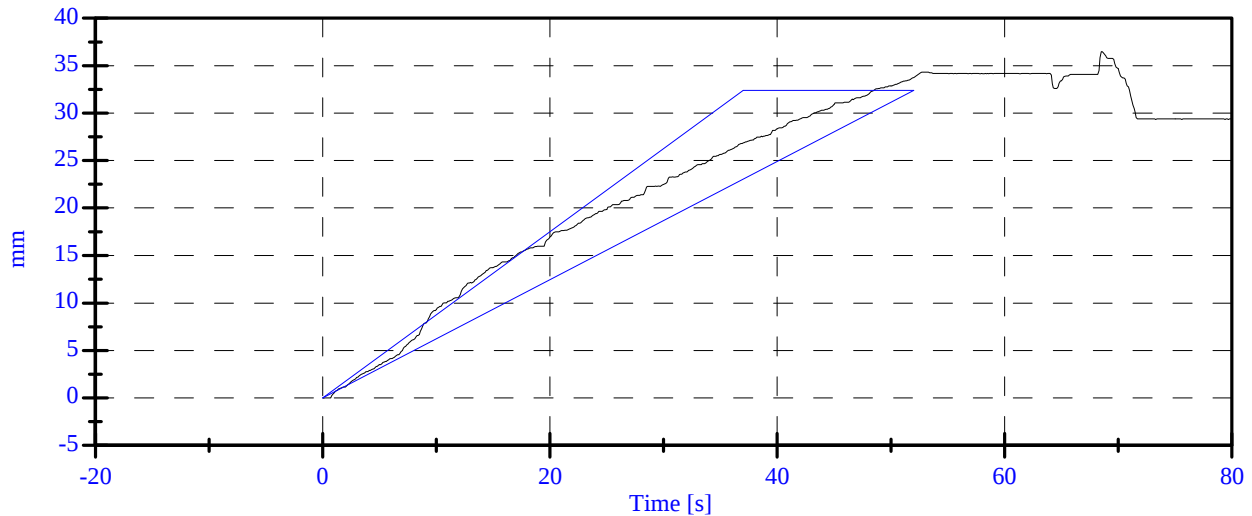
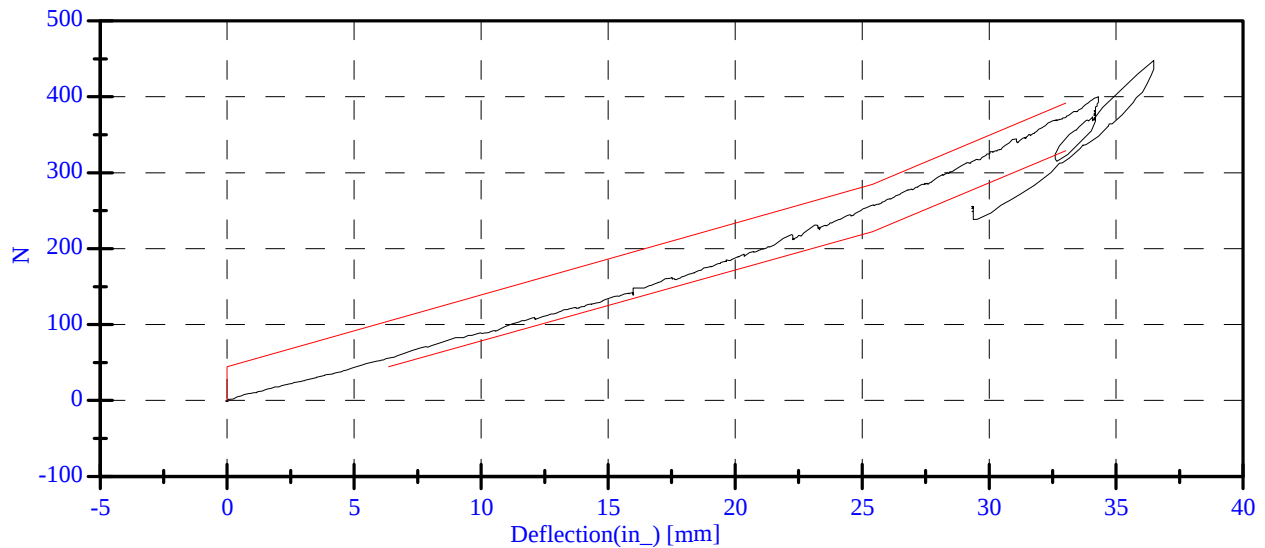
SID Abdominal Test
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: July 24, 2006

Sequential Test Number: 1 File: abdominal test 2 269test6
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	115.34 N	Passed
Force at 19.05 mm :	162.98-220.99 N	176.60 N	Passed
Force at 25.40 mm :	221.97-280.02 N	257.80 N	Passed
Force at 33.02 mm :	324.99-391.00 N	373.43 N	Passed

ABDOMINAL COMPRESSION TEST



SID Lumbar Spine

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269

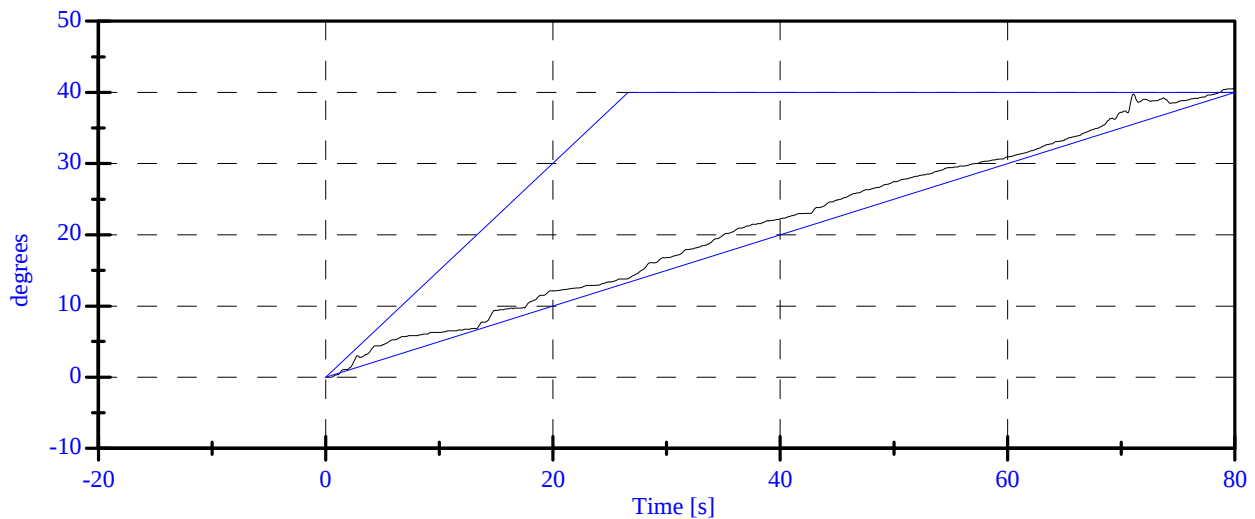
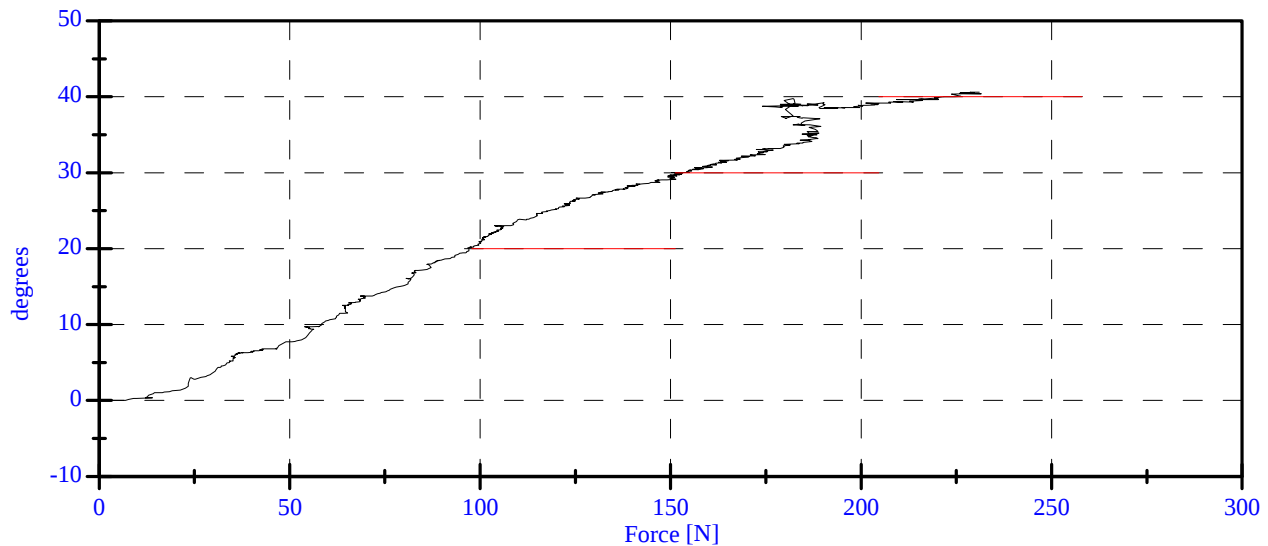
Date: July 24, 2006

Sequential Test Number: 1 File: spine bend 269test5

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	1.70 N	Passed
Force at 20 Deg:	97.86-151.24 N	97.02 N	Failed
Force at 30 Deg	151.24-204.62 N	153.17 N	Passed
Force at 40 Deg	204.62-258.00 N	221.85 N	Passed
Return Angle	12 Deg Max	18.57 deg	Failed

LUMBAR SPINE FLEXION TEST



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 4
 Date: July 19, 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.: 270

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270	Sequential Test Number: 4
Date: July 19, 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.: 270 Sequential Test Number: 4
Date: July 19, 2006 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	899
RH- Rib Height (mm)	502 - 520	505
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
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	381

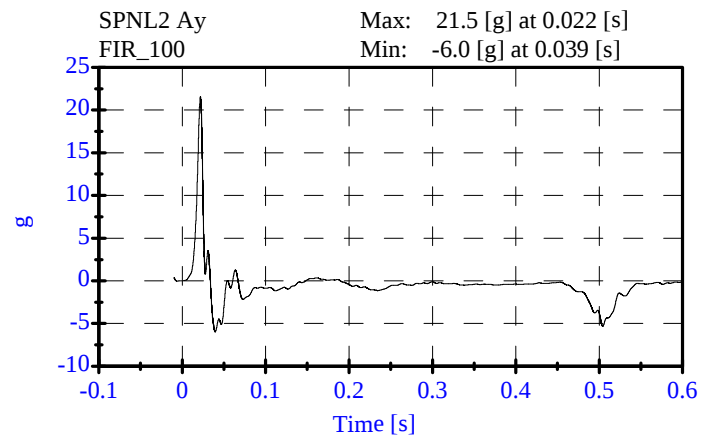
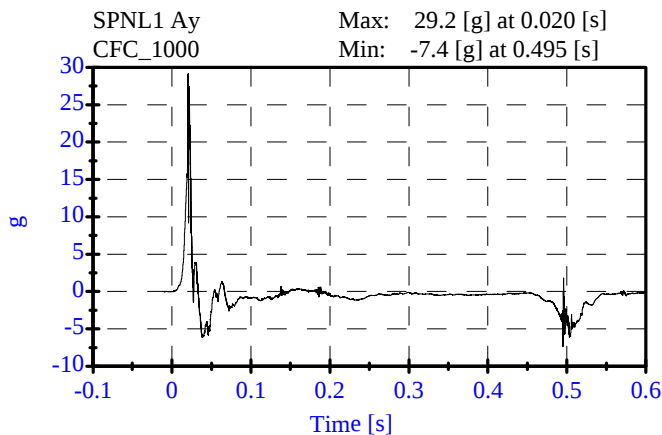
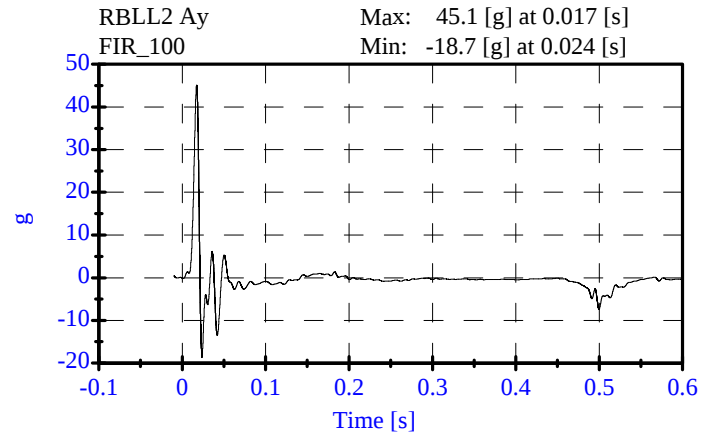
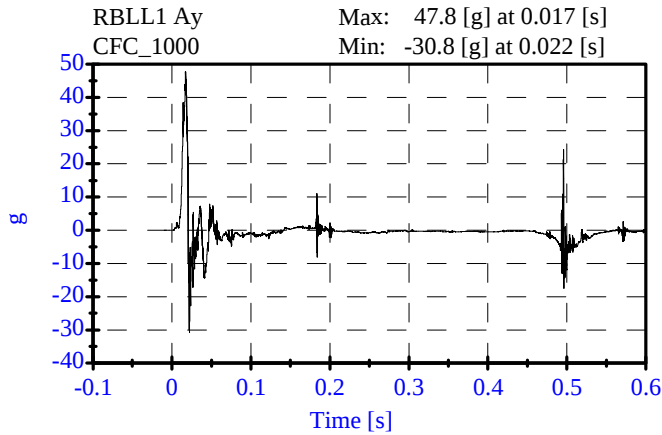
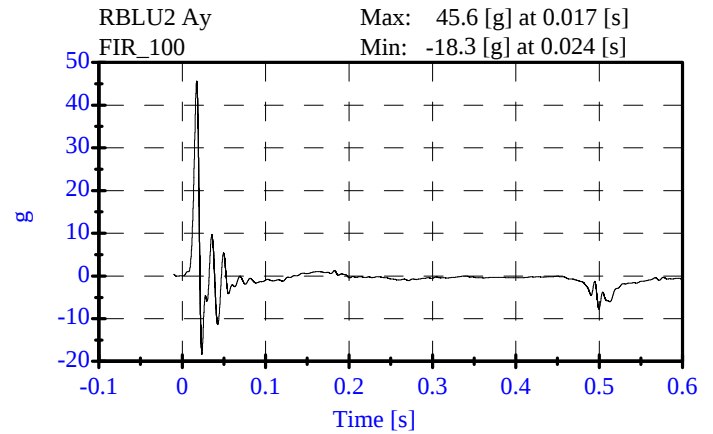
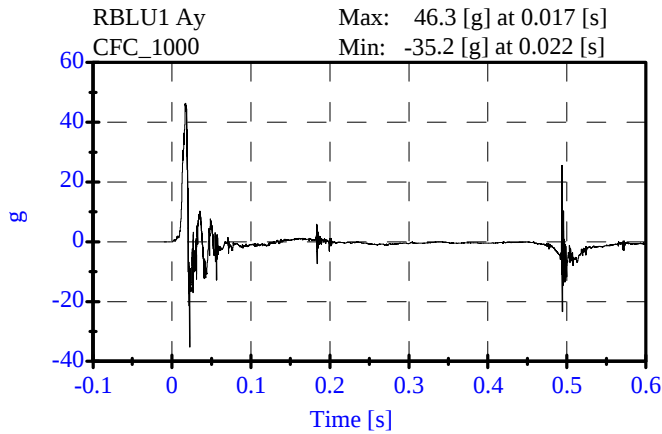
REMARKS: None

SID Thorax Test Test S/N:270
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: July 21, 2006

Sequential Test Number: 1 File: test1
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.33 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 g	45.62 g	Passed
Lower Rib Acceleration:	37.00-46.00 g	45.12 g	Passed
Lower Spine Acceleration:	15.00-22.00 g	21.55 g	Passed



SID Pelvic Test S/N:270

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

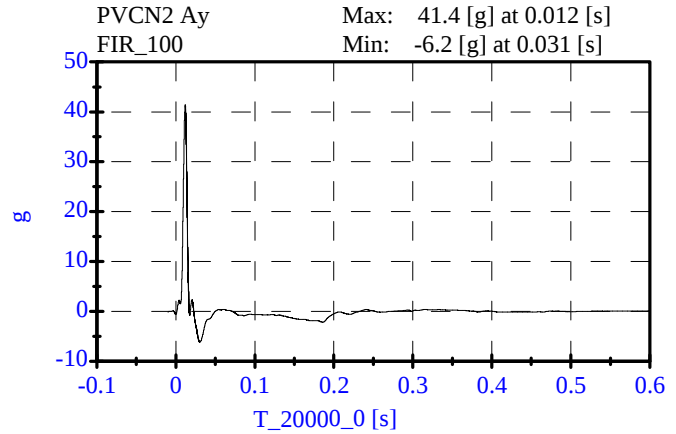
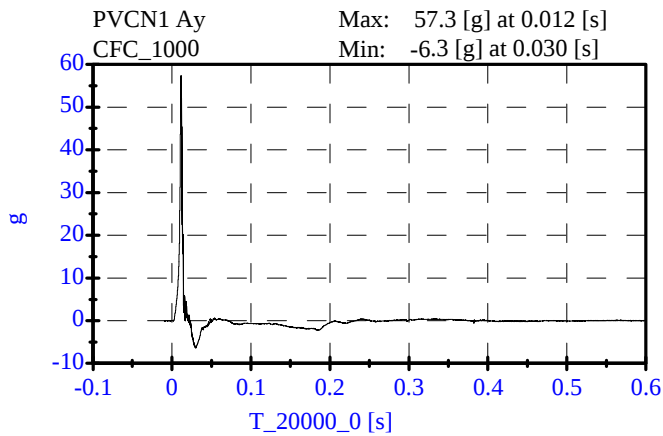
ATD Serial No: 270

Date: July 21, 2006

Sequential Test Number: 1 File: test1

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	30.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.30 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 g	41.41 g	Passed
Time Above 20 Gs	3.0-7.0 ms	5.3 ms	Passed

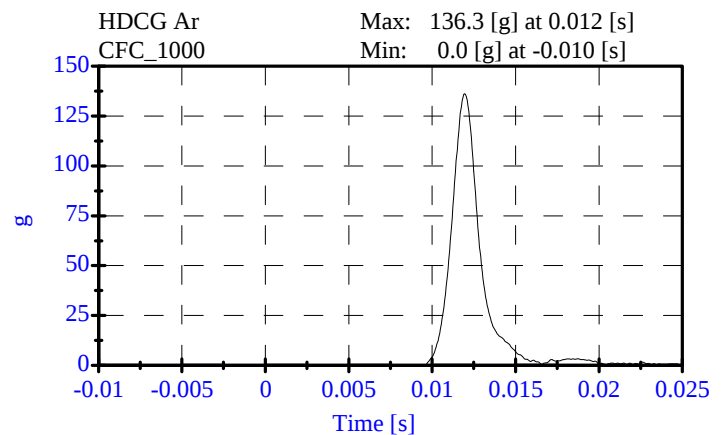
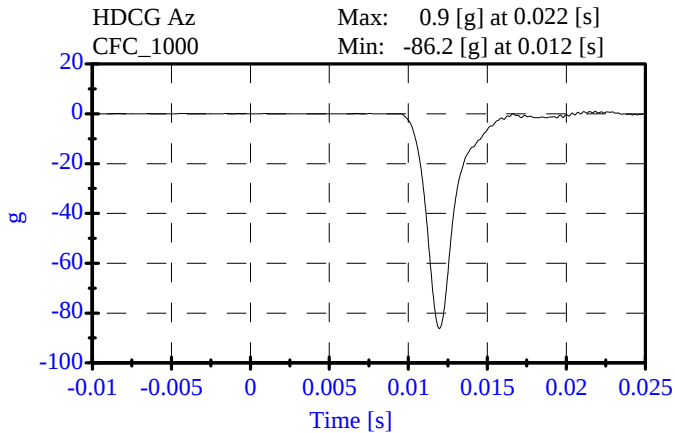
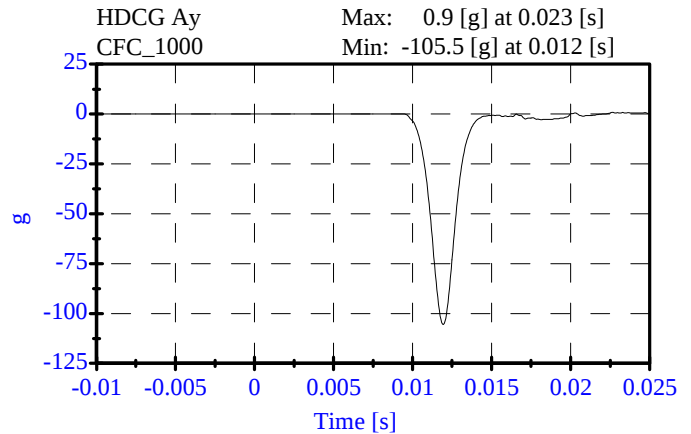
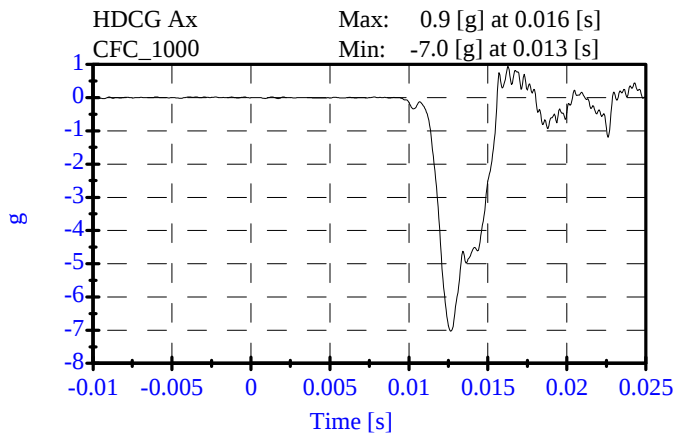


SID HYIII Head Drop Test S/N:270
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: July 18, 2006

Sequential Test Number: 1 File: 1001
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 %	50.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	136.29 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	0.94 Gs	Passed
Curve PerCent NonModal:	< 15%	2.42 %	Passed



SID Head Neck Test 1 S/N:270**Post-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270

Date: July 21, 2006

Sequential Test Number: 1 File: tst1

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 %	50.00 %	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	2.32 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.73 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.84 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.62 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	67.68 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	60.05 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	86.02 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	55.05 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	10.30 ms	Passed

SID Head Neck Test 1 S/N:270
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

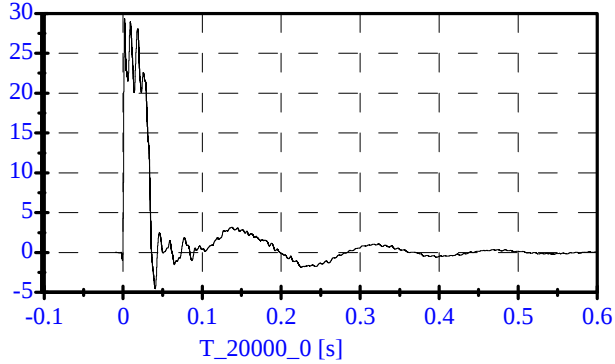
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Date: July 21, 2006

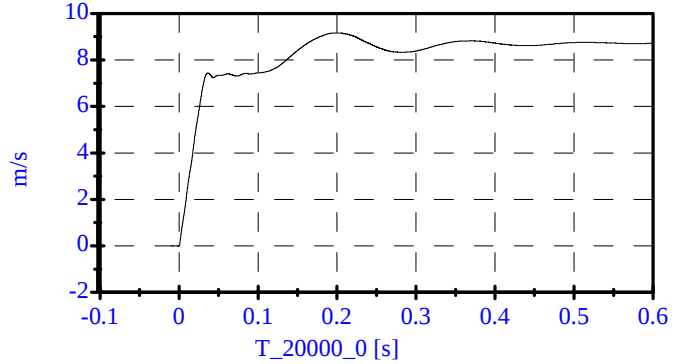
Sequential Test Number: 1 File: tst1

Laboratory Technician: B. Swiecicki

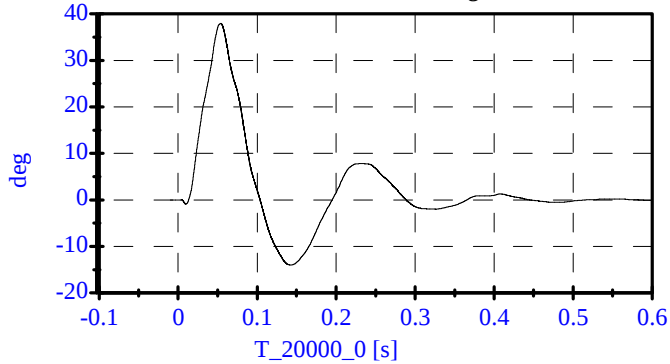
Pend Ax
CFC_180
Max: 29.3 [] at 0.002 [s]
Min: -4.5 [] at 0.041 [s]



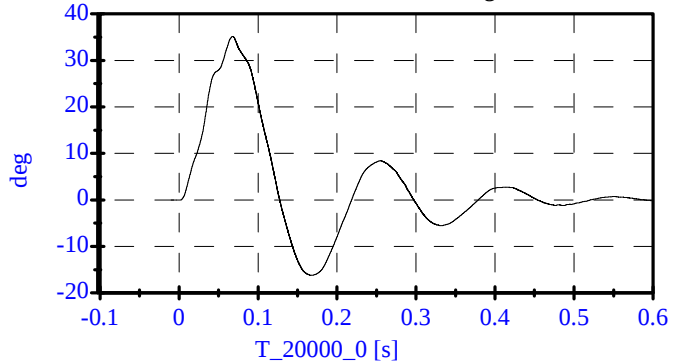
Pend Vx
CFC_180
Max: 9.2 [m/s] at 0.199 [s]
Min: -0.0 [m/s] at -0.000 [s]



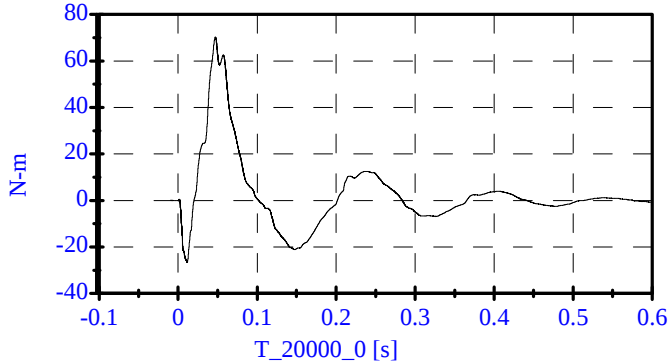
Head Rot
CFC_180
Max: 38.0 [deg] at 0.054 [s]
Min: -14.0 [deg] at 0.143 [s]



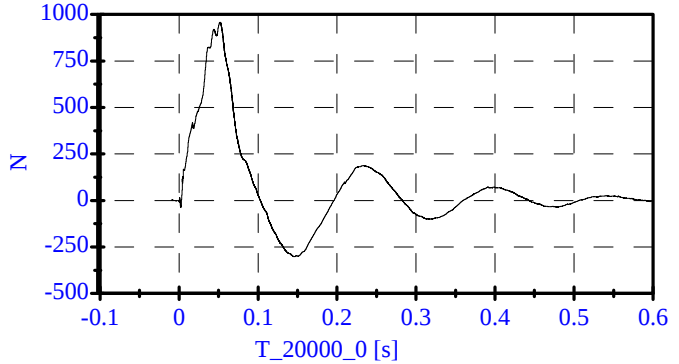
Arm Rot
CFC_180
Max: 35.2 [deg] at 0.068 [s]
Min: -16.2 [deg] at 0.168 [s]



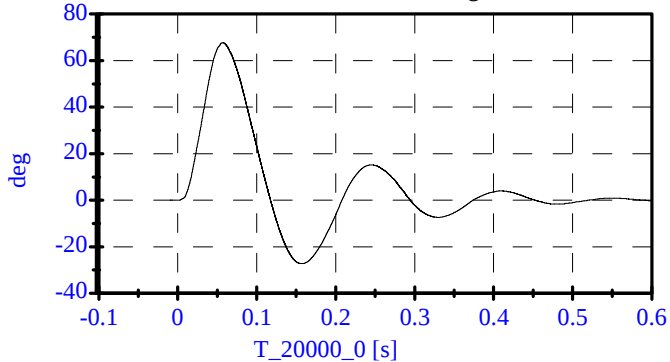
Neck Mx
CFC_600
Max: 70.3 [N-m] at 0.047 [s]
Min: -26.6 [N-m] at 0.011 [s]



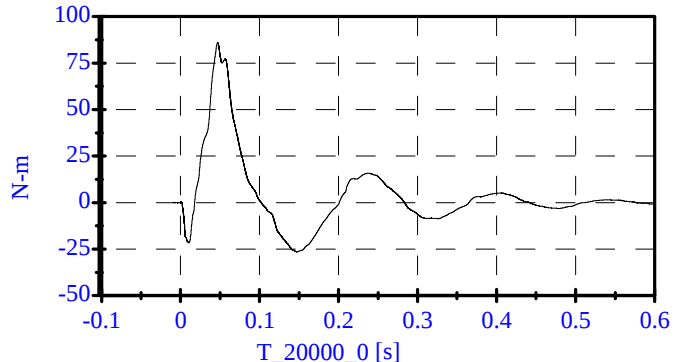
Neck Fy
CFC_1000
Max: 957.0 [N] at 0.052 [s]
Min: -302.2 [N] at 0.145 [s]



Tot Rot
CFC_180
Max: 67.7 [deg] at 0.057 [s]
Min: -27.3 [deg] at 0.157 [s]



MOCX
Max: 86.0 [N-m] at 0.047 [s]
Min: -26.5 [N-m] at 0.148 [s]



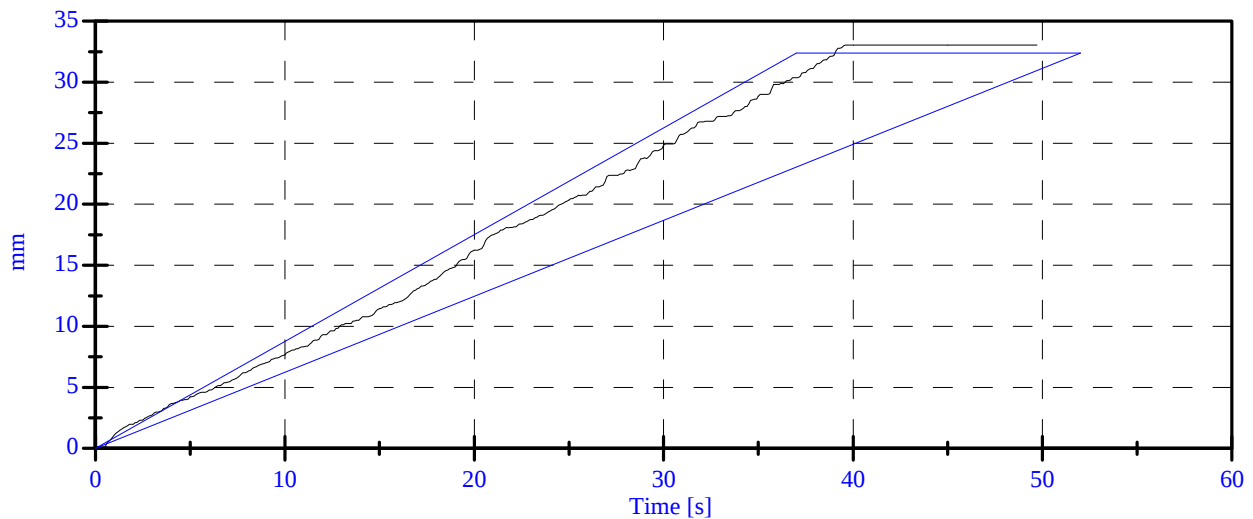
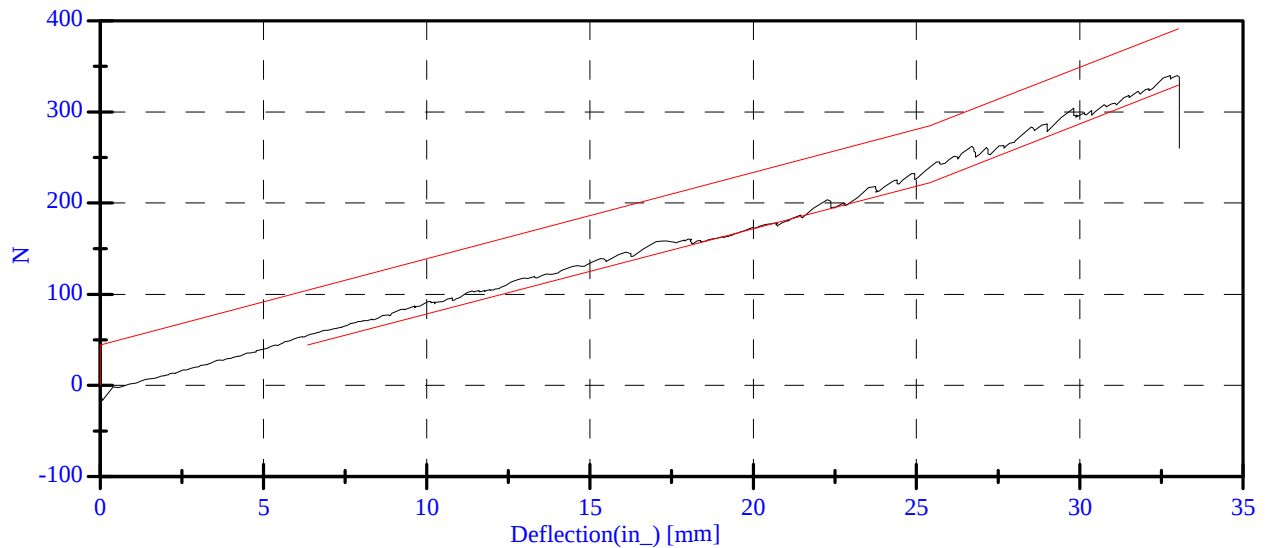
**SID Abdominal
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270
Date: July 24, 2006

Sequential Test Number: 1 File: abdominal test 3 270test6
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	50.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	117.90 N	Passed
Force at 19.05 mm :	162.98-220.99 N	162.99 N	Passed
Force at 25.40 mm :	221.97-280.02 N	235.73 N	Passed
Force at 33.02 mm :	324.99-391.00 N	338.28 N	Passed

ABDOMINAL COMPRESSION TEST



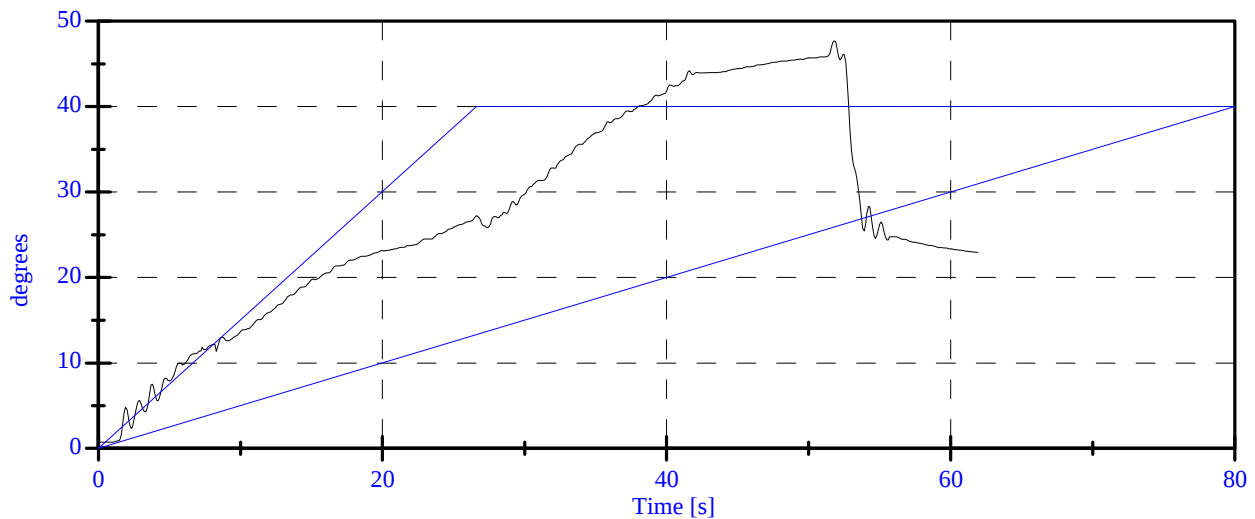
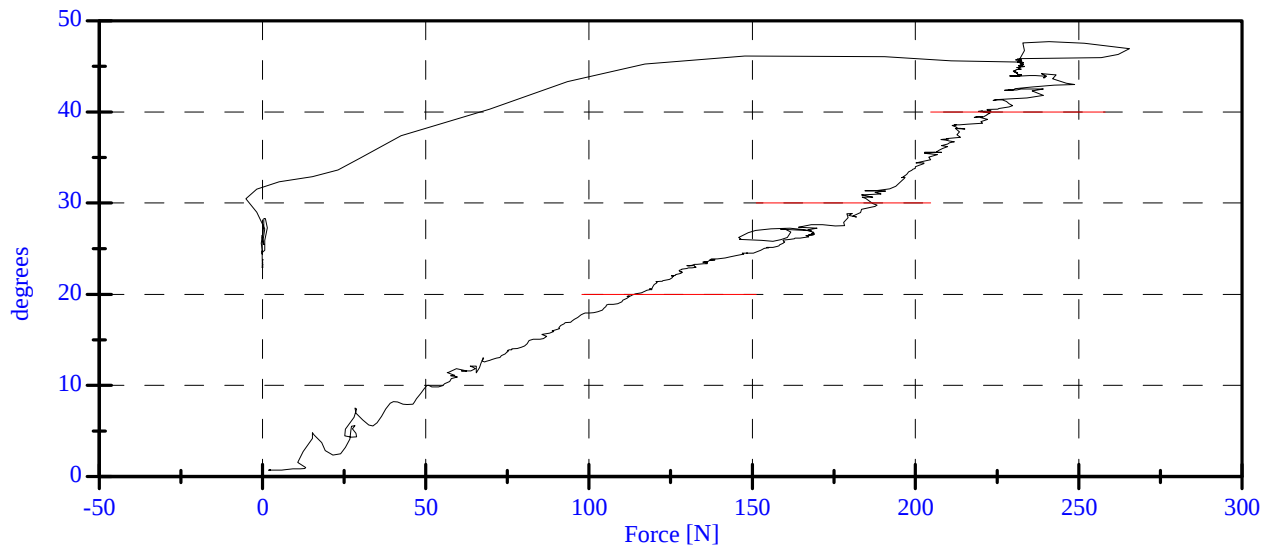
SID 270 LUMBAR SPINE BEND TEST
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: Julyu 24, 2006

Sequential Test Number: 1 File: spine bend 270test1
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
Force at 0 Deg:	0.00-26.69 N	1.96 N	Passed
Force at 20 Deg:	97.86-151.24 N	114.26 N	Passed
Force at 30 Deg	151.24-204.62 N	186.86 N	Passed
Force at 40 Deg	204.62-258.00 N	219.77 N	Passed
Return Angle	12 Deg Max	8.53 deg	Passed

LUMBAR SPINE FLEXION TEST



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

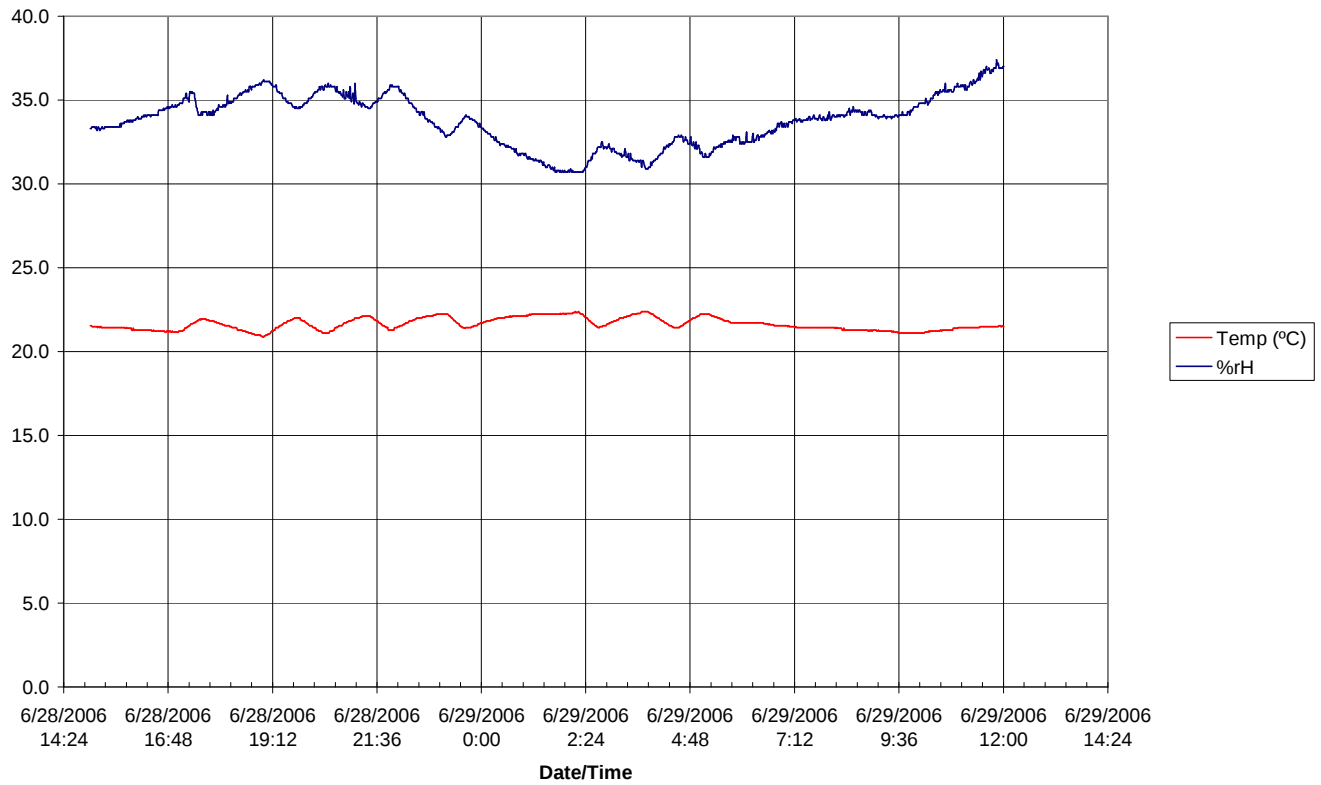
SID H3 Serial No.: 270 Sequential Test Number: 4
 Date: July 19, 2006 Laboratory Technician: B. Swiecicki

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 Dodge Caliber C70301 Environmental Conditions



APPENDIX D

TEST EQUIPMENT AND CALIBRATION INFORMATION

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

SID/HIII INSTRUMENTATION

	FRONT SID/HIII NO.: 269		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P22943	ENDEVCO	13-Jan-06
HEAD AY	AC-P17236	ENDEVCO	13-Jan-06
HEAD AZ	AC-P23164	ENDEVCO	28-Jun-06
UPPER NECK FX	LC-442Fx	DENTON	27-Jun-05
UPPER NECK FY	LC-442Fy	DENTON	27-Jun-05
UPPER NECK FZ	LC-442Fz	DENTON	27-Jun-05
UPPER NECK MX	LC-442Mx	DENTON	27-Jun-05
UPPER NECK MY	LC-442My	DENTON	27-Jun-05
UPPER NECK MZ	LC-442Mz	DENTON	27-Jun-05
UPPER RIB	AC-P39731	ENDEVCO	13-Jan-06
LOWER RIB	AC-P38896	ENDEVCO	13-Jan-06
LOWER SPINE	AC-P38188	ENDEVCO	13-Jan-06
PELVIS	AC-P38132	ENDEVCO	13-Jan-06
UPPER RIB REDUNDANT	AC-P39740	ENDEVCO	13-Jan-06
LOWER RIB REDUNDANT	AC-P35786	ENDEVCO	13-Jan-06
LOWER SPINE REDUNDANT	AC-P38216	ENDEVCO	13-Jan-06
PELVIS REDUNDANT	AC-P35757	ENDEVCO	13-Jan-06

	REAR SID/HIII NO.: 270		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P35812	ENDEVCO	16-Jan-06
HEAD AY	AC-P18739	ENDEVCO	16-Jan-06
HEAD AZ	AC-P19212	ENDEVCO	16-Jan-06
UPPER NECK FX	LC-1629Fx	DENTON	27-Jun-05
UPPER NECK FY	LC-1629Fy	DENTON	27-Jun-05
UPPER NECK FZ	LC-1629Fz	DENTON	27-Jun-05
UPPER NECK MX	LC-1629Mx	DENTON	27-Jun-05
UPPER NECK MY	LC-1629My	DENTON	27-Jun-05
UPPER NECK MZ	LC-1629Mz	DENTON	27-Jun-05
UPPER RIB	AC-P18558	ENDEVCO	16-Jan-06
LOWER RIB	AC-P18537	ENDEVCO	16-Jan-06
LOWER SPINE	AC-P18639	ENDEVCO	16-Jan-06
PELVIS	AC-P21171	ENDEVCO	16-Jan-06
UPPER RIB REDUNDANT	AC-P18516	ENDEVCO	16-Jan-06
LOWER RIB REDUNDANT	AC-P19222	ENDEVCO	16-Jan-06
LOWER SPINE REDUNDANT	AC-P18663	ENDEVCO	16-Jan-06
PELVIS REDUNDANT	AC-P22639	ENDEVCO	16-Jan-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-J31101	ENDEVCO	16-Feb-06
RIGHT FRONT SILL (Y)	AC-J31020	ENDEVCO	16-Feb-06
RIGHT FRONT SILL (Z)	AC-J31059	ENDEVCO	16-Feb-06
RIGHT REAR SILL (X)	AC-P18628	ENDEVCO	20-Jan-06
RIGHT REAR SILL (Y)	AC-P18718	ENDEVCO	03-Apr-06
RIGHT REAR SILL (Z)	AC-P23976	ENDEVCO	20-Jan-06
REAR FLOORPAN ABOVE AXLE (X)	AC-P23358	ENDEVCO	21-Jan-06
REAR FLOORPAN ABOVE AXLE (Y)	AC-J32838	ENDEVCO	21-Jan-06
REAR FLOORPAN ABOVE AXLE (Z)	AC-J32143	ENDEVCO	21-Jan-06
LEFT REAR SILL (Y)	AC-P13323	ENDEVCO	20-Jan-06
LEFT FRONT SILL (Y)	AC-P19374	ENDEVCO	20-Jan-06
LEFT FRONT DOOR CENTERLINE (Y)	-	-	-
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-8086-047	ICS	13-Jan-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-P19219	ENDEVCO	08-Mar-06
MIDDLE LEFT B-PILLAR (Y)	AC-P16843	ENDEVCO	07-Jan-06
LOWER LEFT A-PILLAR (Y)	AC-P16616	ENDEVCO	19-Jan-06
UPPER LEFT A-PILLAR (Y)	AC-P23136	ENDEVCO	20-Jan-06
FRONT SEAT TRACK (Y)	AC-P23137	ENDEVCO	26-Apr-06
REAR SEAT TRACK (Y)	AC-P16676	ENDEVCO	07-Jan-06
VEHICLE CG (X)	AC-P19111	ENDEVCO	19-Jan-06
VEHICLE CG (Y)	AC-P23161	ENDEVCO	19-Jan-06
VEHICLE CG (Z)	AC-P24011	ENDEVCO	19-Jan-06
MDB CG (X)	AC-C16433	ENDEVCO	27-Jun-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