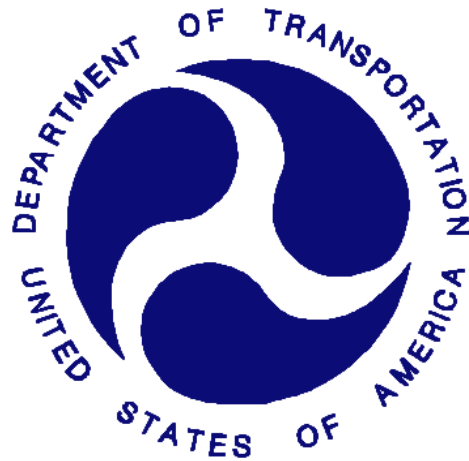


REPORT NUMBER: SINCAP-MCW-12-10

**NEW CAR ASSESSMENT PROGRAM (SINCAP)
MOVING DEFORMABLE BARRIER SIDE IMPACT TEST**

**HONDA MOTOR CO., LTD.
2012 HONDA CR-V 5-DOOR SUV
NHTSA NUMBER: MC 5304**

**PREPARED BY:
MEDICAL COLLEGE OF WISCONSIN
5000 WEST NATIONAL AVENUE
RESEARCH 151
MILWAUKEE, WISCONSIN 53295**



TEST DATE: 13 MARCH 2012

REPORT DATE: 27 MARCH 2012

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF CRASHWORTHINESS STANDARDS
MAIL CODE: NVS-111
1200 NEW JERSEY AVE, SE, ROOM W43-410
WASHINGTON, D.C. 20590**

Test Vehicle: 2012 Honda CR-V 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

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Prepared by: M. J. [Signature]

Date: 5/1/12

Approved by: [Signature]

Date: 1 MAY 2012

FINAL REPORT ACCEPTANCE BY OCWS:

Division Chief, New Car Assessment Program
NHTSA, Office of Crashworthiness Standards

Date: _____

COTR, New Car Assessment Program
NHTSA, Office of Crashworthiness Standards

Date: _____

Technical Report Documentation Page

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4. Title and Subtitle Final report of New Car Assessment Program Side Impact MDB Test of a 2012 Honda CR-V 5-Door SUV NHTSA No. MC 5304	5. Report Date March 27, 2012	6. Performing Organization Code MCW																																												
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	15. Supplementary Notes																																													
16. Abstract A 55/28 km/h 90° Moving Deformable Barrier NCAP Side Impact Test was conducted on the subject 2012 Honda CR-V 5-Door SUV in accordance with the specifications of the Office of Crashworthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at the Medical College of Wisconsin (MCW) facility in Milwaukee, Wisconsin on 13 March 2012. The impact velocity of the Moving Deformable Barrier (MDB) was 62.2 km/h, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 21°C. The target vehicle's post test maximum static crush was 232 mm at level 3. The test vehicle's performance is as follows: <table border="1"> <thead> <tr> <th></th> <th>Units</th> <th>IARV</th> <th>DRIVER ATD (ES-2re)</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₃₆)</td> <td>N/a</td> <td>1000</td> <td>103</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>44</td> <td>18</td> </tr> <tr> <td>Total Abdominal Force</td> <td>N</td> <td>2500</td> <td>796</td> </tr> <tr> <td>Pubic Symphysis Force</td> <td>N</td> <td>6000</td> <td>1943</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>Units</th> <th>IARV</th> <th>Pass. ATD (SID-IIs)</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₃₆)</td> <td>N/a</td> <td>1000</td> <td>133</td> </tr> <tr> <td>Lower Spine Resultant Acceleration</td> <td>G's</td> <td>82</td> <td>60</td> </tr> <tr> <td>Total Pelvic Force (sum of Acetabular and Iliac forces)</td> <td>N</td> <td>5525</td> <td>3286</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>38</td> <td>9</td> </tr> <tr> <td>Maximum Abdominal Rib Deflection</td> <td>mm</td> <td>45</td> <td>20</td> </tr> </tbody> </table> The two 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.				Units	IARV	DRIVER ATD (ES-2re)	Head Injury Criteria (HIC ₃₆)	N/a	1000	103	Maximum Thoracic Rib Deflection	mm	44	18	Total Abdominal Force	N	2500	796	Pubic Symphysis Force	N	6000	1943		Units	IARV	Pass. ATD (SID-IIs)	Head Injury Criteria (HIC ₃₆)	N/a	1000	133	Lower Spine Resultant Acceleration	G's	82	60	Total Pelvic Force (sum of Acetabular and Iliac forces)	N	5525	3286	Maximum Thoracic Rib Deflection	mm	38	9	Maximum Abdominal Rib Deflection	mm	45	20
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Test Vehicle: 2012 Honda CR-V 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

Technical Report Documentation Page (CONTINUED)

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Test Vehicle: 2012 Honda CR-V 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

SECTION 1

TEST PURPOSE AND PROCEDURE

This moving deformable barrier side impact test is part of the MY 2012 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract number DTNH22-09-D-00123. The purpose of this test is to generate comparative side impact performance in a 2012 Honda CR-V 5-Door SUV. The side impact test was conducted in accordance with the Office of Crashworthiness Standard's Laboratory Test Procedure dated August 2011.

SECTION 2 SUMMARY OF TEST RESULTS

A 2012 Honda CR-V 5-Door SUV 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 62.2 km/h (38.6 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by The Medical College of Wisconsin in Milwaukee, Wisconsin, on March 13, 2012. Pre test and post test photographs of the test vehicle, the MDB, and the dummies (ES-2re and SID-IIs) are included in this report.

Dummies were placed in the driver and left rear designated seating positions according to instructions specified in the OCWS Side Impact Laboratory Test Procedure, dated August 2011. The side impact event was documented by 11 cameras. Camera locations are included in this report.

The dummies were instrumented in the following manner:

DRIVER ATD (ES-2re)

- Primary and Redundant Head CG Tri-Axial Accelerometers
- Chest, Upper Rib, Middle Rib, and Lower Rib Y-Axis Displacement Potentiometers
- Abdomen Forward, Middle, and Rear Y-Axis Load Cells
- Lower Spine (T₁₂) Tri-Axial Accelerometers
- Pubic Symphysis Y-Axis Load Cell

PASSENGER ATD (SID-IIs)

- Primary and Redundant Head CG Tri-Axial Accelerometers
- Chest, Upper Rib, Middle Rib, and Lower Rib Y-Axis Displacement Potentiometers
- Abdomen Upper Rib and Lower Rib Y-Axis Displacement Potentiometers
- Lower Spine (T₁₂) Tri-Axial Accelerometers
- Acetabulum and Iliac Wing Y-Axis Load Cells

Supplemental restraint information is given below:

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION				
Restraint type	Left Front (Driver)		Left Rear (Passenger)	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	Did Not Deploy	No	N/a
Knee Airbag	No	N/a	No	N/a
Side Curtain Airbag	Yes	Deployed	Yes	Deployed
Side Torso Airbag	Yes	Deployed	No	N/a
Seat Belt Pretensioner	Yes	Deployed	Yes	Deployed
Seat Belt Load Limiter	Yes	N/a	No	N/a
Other	N/a	N/a	N/a	N/a

SECTION 2
SUMMARY OF TEST RESULTS (CONTINUED)

Dummy injury values were recorded as follows:

DRIVER DUMMY INJURY VALUES			
Measurement Description	Driver ATD (ES-2re)		
	Units	Threshold	Result
Head Injury Criteria (HIC ₃₆)	N/a	1000	103
Maximum Thorax Rib Deflection	mm	44	18
Combined Abdominal Force	N	2500	796
Pubic Symphysis Force	N	6000	1943

PASSENGER DUMMY INJURY VALUES			
Measurement Description	Passenger ATD (SID-IIs)		
	Units	Threshold	Result
Head Injury Criteria (HIC ₃₆)	N/a	1000	133
Lower Spine (T ₁₂) Resultant Acceleration	G's	82	60
Total Pelvic Force (Sum of Acetabular and Iliac Forces)	N	5525	3286
Maximum Thoracic Rib Deflection	mm	38*	9
Maximum Abdominal Rib Deflection	mm	45*	20

**Proposed IARV*

GENERAL COMMENTS

The onboard hood camera lost power at T0 and post-impact camera data was lost.

The primary and redundant trigger cables for the MDB data acquisition was severed prior to triggering.

SECTION 3 OCCUPANT AND VEHICLE INFORMATION

PRE TEST

Data Sheet No. 1 – General Test and Vehicle Parameter Data
Data Sheet No. 2 – Seat, Seat Belt, Steering Wheel Adjustment and Fuel System Data
Data Sheet No. 3 – Dummy Longitudinal Clearance Dimensions
Data Sheet No. 4 – Dummy Lateral Clearance Dimensions
Data Sheet No. 5 – Camera and Instrumentation Data
Data Sheet No. 6 – Test Vehicle Accelerometer Locations
Data Sheet No. 7 – MDB Accelerometer Locations

POST TEST

Data Sheet No. 8 – Post-Test Observations
Data Sheet No. 9 – MDB Summary of Results
Data Sheet No. 10 – Test Vehicle Profile Measurements
Data Sheet No. 11 – Test Vehicle Exterior Crush Measurements
Data Sheet No. 12 – MDB Exterior Static Crush Measurements
Data Sheet No. 13 – FMVSS No. 301 Static Rollover Results
Data Sheet No. 14 – Dummy/Vehicle Temperature and Humidity Stabilization Data

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

VEHICLE INFORMATION		VEHICLE OPTIONS	
NHTSA No.	MC 5304	Traction Control System (TCS)	Yes
Model Year	2012	Auto-Leveling System	No
Make	Honda	Automatic Door Locks (ADL)	Yes
Model	CR-V	Power Window Auto-Reverse	No
Body Style	SUV	Other Optional Features	Yes
VIN	JHLRM3H58CC001142	Driver Front Airbag	Yes
Body Color	Polished Metal Met.	Driver Curtain Airbag	Yes
Odometer Reading (km/mi)	57 mi	Driver Head/Torso Airbag	No
Engine Displacement (L)	2.4	Driver Torso Airbag	Yes
Type/No. of Cylinders	4	Driver Torso/Pelvis Airbag	No
Engine Placement	Lateral	Driver Pelvis Airbag	No
Transmission Type	Automatic	Driver Knee Airbag	No
Transmission Speeds	5	Rear Pass. Curtain Airbag	Yes
Overdrive	Yes	Rear Pass. Head/Torso Airbag	No
Final Drive	2WD	Rear Pass. Torso Airbag	No
Roof Rack	No	Rear Pass. Torso/Pelvis Airbag	No
Sunroof/T-Top	Yes	Rear Pass. Pelvis Airbag	No
Running Boards	No	Driver Seat Belt Pretensioner	Yes
Tilt Steering Wheel	Yes	Rear Pass. Seat Belt Pretensioner	Yes
Power Seats	No	Driver Load Limiter	Yes
Anti-Lock Brakes (ABS)	Yes	Rear Pass. Load Limiter	No
All-Wheel Drive (AWD)	No	Other Safety Restraint	None Noted

Does owner's manual provide instructions to turn off automatic door locks? Yes

DATA FROM CERTIFICATION LABEL			
Manufactured By	Honda Motor Co., LTD	GVWR (kg)	2025
Date of Manufacture	Oct. 2011	GAWR Front(kg)	1030
Vehicle Type	Sport Utility Vehicle	GAWR Rear (kg)	1015

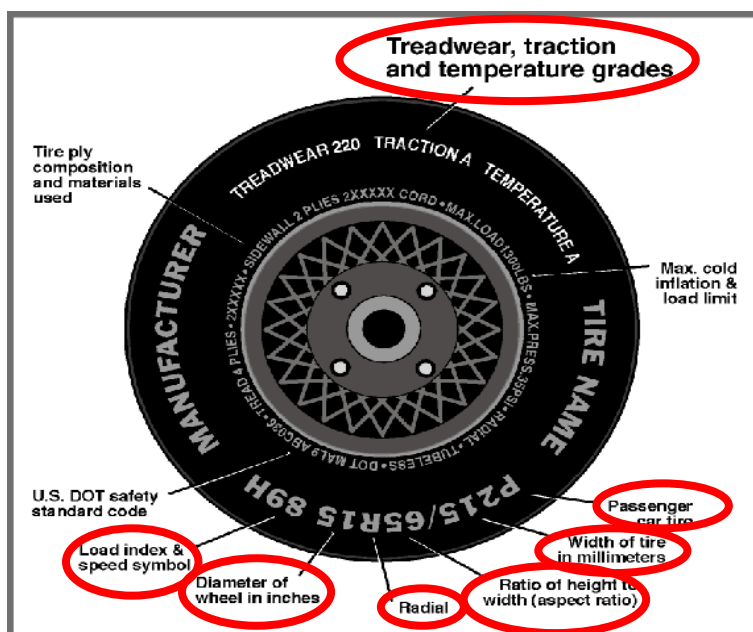
VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION				
	Front	Rear	Third	Total
Designated Seating Capacity (DSC)	2	3	0	5
Capacity Weight (VCW) (kg)				385.6
DSC X 68.04 (kg)				340.2
Cargo Weight (RCLW) (kg)				45.4

(A)
 (B)
 (A-B)

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA (CONTINUED)

VEHICLE SEAT TYPE							
Seating Location	Type of Seat Pan				Type of Seat Back		
	Bucket	Bench	Split Bench	Contoured	Fixed	Adjustable	
						W/ Lever	W/ Knob
Front Seat	X					X	
Rear or Second Row Seat			X	X	X	N/a	
Third Row Seat							

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA (CONTINUED)



TIRE PLACARD INFORMATION		
Measured Parameter	Front	Rear
Recommended Cold Tire Pressure (kPa)	210	210
Recommended Tire Size	255/55R18	255/55R18

TIRE SIDEWALL INFORMATION		
Measured Parameter	Front	Rear
Max. Tire Pressure (kPa)	300	300
Tire Size on Vehicle	225/65R17	225/65R17
Tire Manufacturer	Continental	Continental
Tire Name	Cross Contact	Cross Contact
Tire Type	Passenger	Passenger
Tire Width	225	225
Aspect Ratio	65	65
Radial	Yes	Yes
Wheel Diameter	17	17
Load Index/Speed Symbol	102 T	102 T
Treadware	680	680
Traction Grade	A	A
Temperature Grade	B	B
Tire Material	Polyester, Steel, Polyamide	Polyester, Steel, Polyamide

**DATA SHEET NO. 1
 GENERAL TEST AND VEHICLE PARAMETER DATA (CONTINUED)**

TIRE PRESSURES					
	Units	LF	RF	LR	RR
As Delivered	kpa	220.6	220.6	220.6	220.6
Tire Placard	kpa	206.8	206.8	206.8	206.8
Owner's Manual	kpa	206.8	206.8	206.8	206.8
As Tested	kpa	204.1	204.8	204.1	206.8

MDB TIRE SPECIFICATIONS						
	Units	Requirement	LF	RF	LR	RR
Tire Size		225/65R17	P205/75R15	P205/75R15	P205/75R15	P205/75R15
Tire Pressure	kPa	200 +/- 21	200	200	200	200

TEST VEHICLE AXLE WEIGHTS										
	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	445.0	318.4		478.1	392.4		484.1	394.3	
Right	kg	434.5	314.3		444.1	361.5		440.5	363.9	
Ratio	%	58.2	41.8		55.0	45.0		54.9	45.1	
Totals	kg	879.5	632.7	1512.2	922.2	753.9	1676.1	924.6	758.2	1682.8

TARGET TEST WEIGHT CALCULATION			
	Units		
Total Delivered Weight (UVW)	kg	1512.2	(A)
Sum of Actual Weight of 2 P572 ATDs used	kg	125.2	(B)
Rated Cargo/Luggage Weight (RCLW)	kg	45.4	(C)
Calculated Target Vehicle Test Weight (TVTW)	kg	1682.8	(A + B + C)

Does the measured As Tested Vehicle Weight lie within the required weight range (i.e. Calculated Test Vehicle Target Weight – 4.5 kg to 9 kg)?

Yes

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA (CONTINUED)

WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW	
Ballast	Weight (kg)
Removed exhaust, non-struck side windows & door panels, spare tire, floor mats, side mirror, head rest, and jack & tool kit to rear to achieve calculated "As Tested" weight.	55.3

TEST VEHICLE ATTITUDE AND CG				
Measurement description	Units	Fully Loaded	As Tested	Meets Requirement***
LF	mm	848	847	Yes
RF	mm	857	852	Yes
RR	mm	839	840	Yes
LR	mm	846	848	Yes
Vehicle CG (Aft of Front Axle)	mm	1183	1181	
Vehicle CG (Left(+))/Right(-) from Longitudinal Centerline)	mm	40	35	

***The "As Tested" vehicle attitude measurements must be equal to or within +/- 10 mm of the "Fully Loaded" vehicle attitude measurements at each wheel well. "Yes" or "No" is indicated.

DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEMS, STEERING WHEEL ADJUSTMENT AND FUEL SYSTEM DATA

SCRL ANGLE RANGE			
Seat	SCRL (°)		
	Max	Min	Mid
Driver Seat	6.1°	5.1°	5.6°
Front Passenger Seat	5.1°	4.9°	5.0°
Front Center Seat*			
Struck Side Rear Seat	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed
Rear Center Seat*			

*If applicable

SCRL ANGLE RANGE						
Seat	As Tested SCRL Angle (Mid) (°)	As Tested SCR Height (mm)	SCR Height Position	SCR Height (mm)		
				Rearmost	Mid-Fore / Aft	Forward- Most
Driver's Seat	N/a**	N/a**	Max	N/a**	N/a**	N/a**
	5.6	-86.8	Mid	-73.6	-86.8	-101.2
	N/a**	N/a**	Min	N/a**	N/a**	N/a**
Front Passenger Seat	N/a**	N/a**	Max	N/a**	N/a**	N/a**
	5.0	-86.8	Mid	-73.6	-86.8	-101.2
	N/a**	N/a**	Min	N/a**	N/a**	N/a**
Front Center Seat*			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
	Fixed	Fixed	Mid	Fixed	Fixed	Fixed
	Fixed	Fixed	Min	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
	Fixed	Fixed	Mid	Fixed	Fixed	Fixed
	Fixed	Fixed	Min	Fixed	Fixed	Fixed
Rear Center Seat*			Max			
			Mid			
			Min			

*If applicable

**Unable to adjust height w/out also changing the SCRL mid-angle

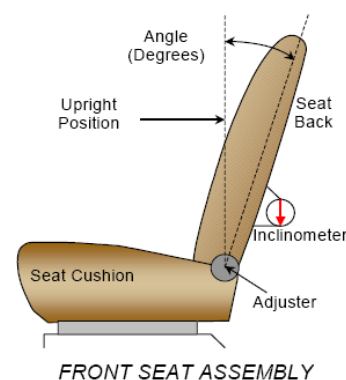
DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEMS, STEERING WHEEL ADJUSTMENT AND FUEL SYSTEM DATA (CONTINUED)

SEAT FORE/AFT TRAVEL				
Seat	Total Fore/Aft Travel		Test Position from Forward-most Position	
	mm	Detents*	mm	Detents*
Driver Seat	240	25	120	12
Front Passenger Seat	240	25	120	12
Front Center Seat*				
Struck Side Rear Seat	Fixed	N/a	Fixed	N/a
Non-Struck Side Rear Seat	Fixed	N/a	Fixed	N/a
Rear Center Seat*				

*If applicable

Seat Back Angle Adjustment

The driver's seat back is positioned to the manufacturer's designated design angle. The front center and front passenger's seat backs are positioned in a similar manner as the driver's seat back. The struck side rear seat back is positioned such that the dummy's head is level. The rear center and non-struck side rear outboard seat backs are positioned in a similar manner as the struck-side rear seat back.



SEAT BACK ANGLE ADJUSTMENT				
Seat	Total Seat Back Angle Range		Test Position from Most Upright	
	Degrees	Detents*	Degrees	Detents*
Driver Seat w/ Seated Dummy	64.0	33	11.3	4
Front Passenger Seat	65.1	33	9.1	4
Front Center Seat*				
Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Rear Center Seat*				

*If applicable

DATA SHEET NO. 2

SEAT ADJUSTMENT, FUEL SYSTEMS, STEERING WHEEL ADJUSTMENT AND FUEL SYSTEM DATA (CONTINUED)

Seat Belt Anchorage Adjustment

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on Form No. 1.

SEAT BELT ANCHORAGE ADJUSTMENT		
	Total No. of Positions	Placed in Position No.
Driver Seat	4	H
Rear Seat	Fixed	As Positioned

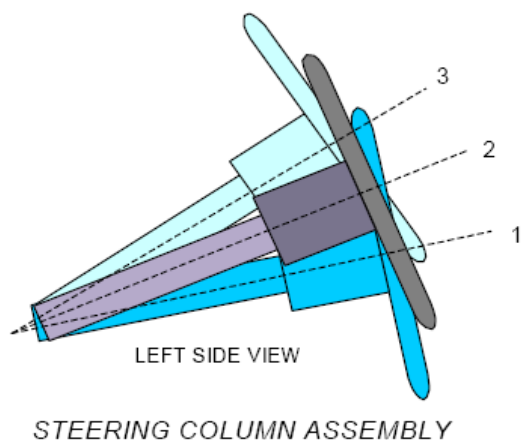
Head Restraint Adjustment

The driver's head restraint is adjusted to the highest and most forward in-use position. The struck-side rear passenger's head restraint is adjusted to the lowest and most full forward in-use position.

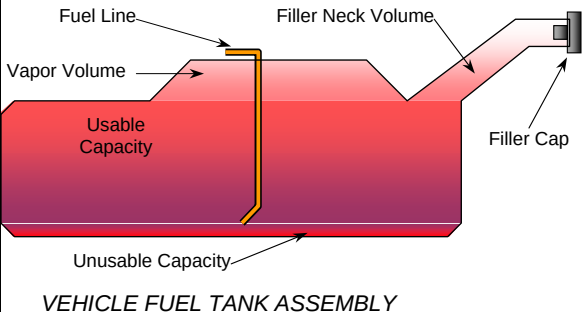
HEAD RESTRAINT ADJUSTMENT		
	Total No. of Positions	Placement
Driver Seat	5	Highest Position
Rear Seat	1	Lowest Detent

Steering Column Adjustment

Steering wheel and column adjustments are made so that the steering wheel hub is at the center of its geometric locus it describes when it moves through its full range of motion.

STEERING COLUMN ADJUSTMENT			
	Degrees	Fore/Aft Position (mm)	
Lowermost, Pos. No. 1	59.6	21 mm	
Geometric Center, Pos. No. 2	62.1	21 mm	
Uppermost, Pos. No. 3	64.6	21 mm	
Telescoping Steering Wheel Travel	62.1	42 mm	
Test Position	62.1	21 mm	

DATA SHEET NO. 2
SEAT ADJUSTMENT, FUEL SYSTEMS, STEERING WHEEL ADJUSTMENT AND FUEL SYSTEM DATA (CONTINUED)

FUEL TANK CAPACITY DATA			
Description	Units	Value	
Usable Capacity of "Standard Tank"	L	57.9	
Usable Capacity of "Optional Tank"	L	0.0	
Usable Capacity of Standard Tank	L	57.9	
Usable Capacity of Optional Tank	L	0.0	
93% of Usable Capacity	%	53.8	
Actual Amount of Solvent Used in Test	L	53.8	
1/3 of Usable Capacity	19.3		

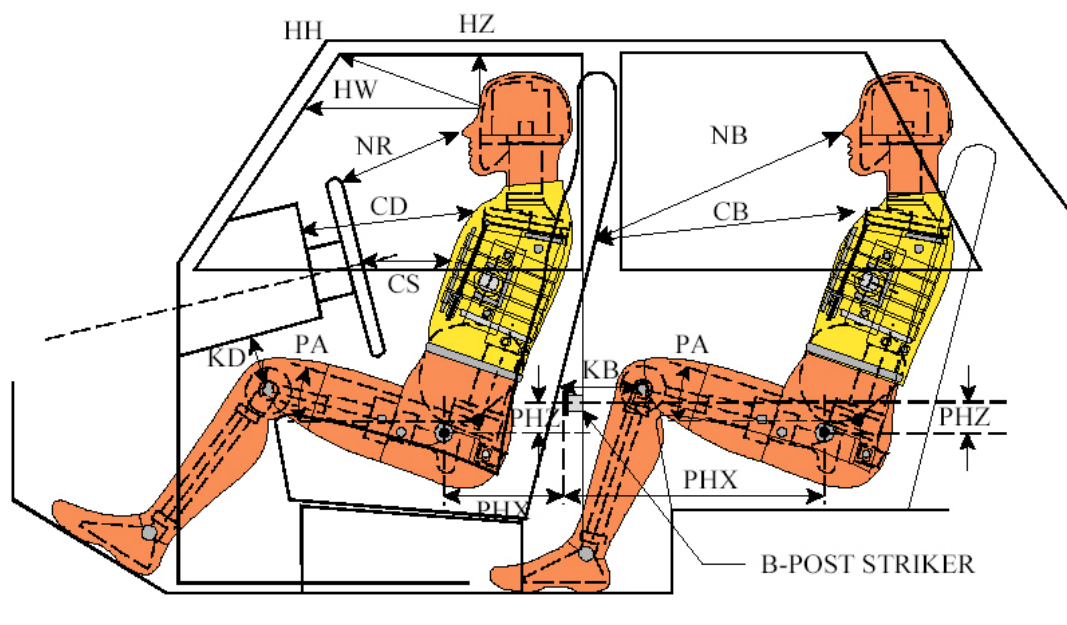
Fuel Pump

The vehicle is equipped with an electronic fuel pump. Key is "ON" position. The fuel pump is on the left side.

Is the Actual Amount of Solvent Used in the test equal to 93% +/- 1% of the Usable Capacity stated in on Form No. 1?

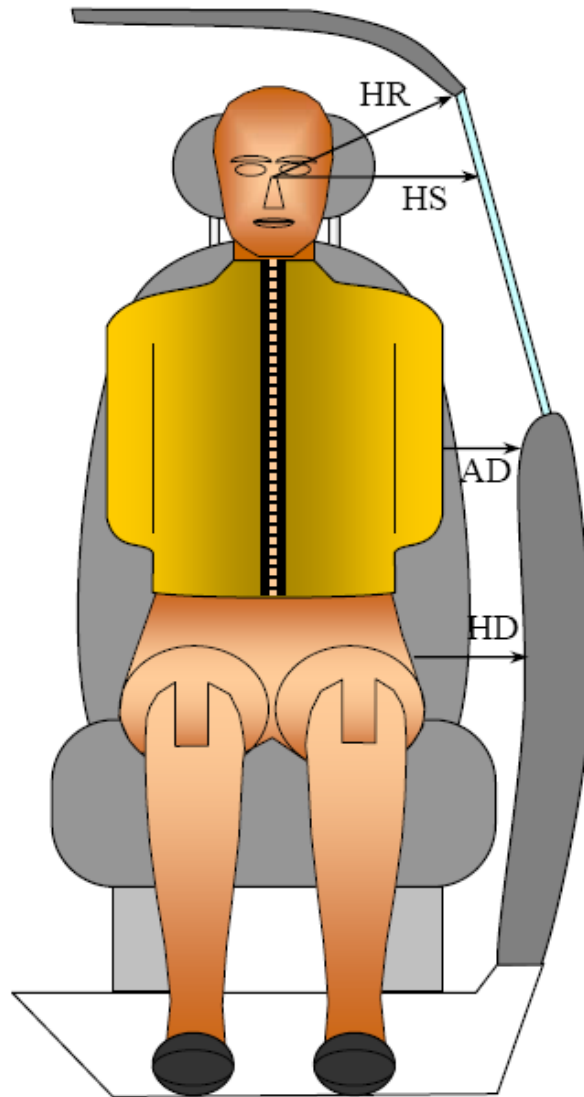
Yes

DATA SHEET NUMBER 3
DUMMY LONGITUDINAL CLEARANCE DIMENSIONS



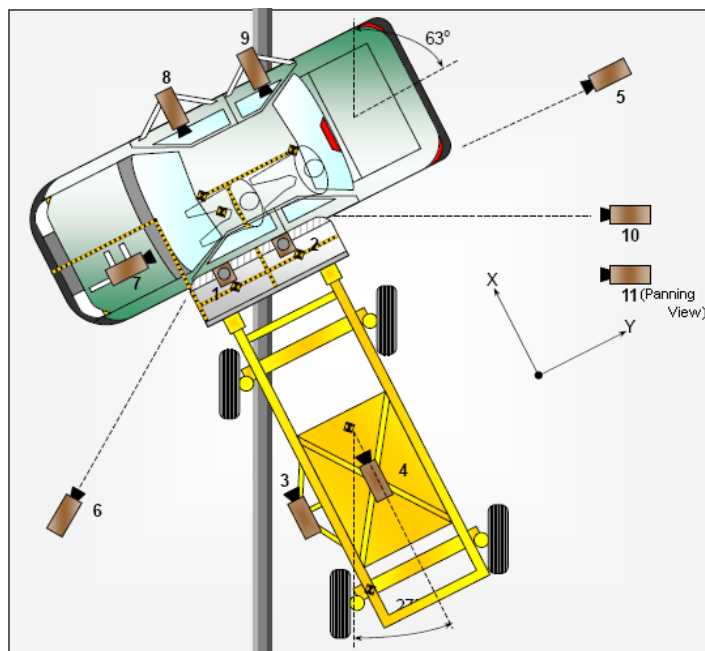
DUMMY LONGITUDINAL CLEARANCE DIMENSION INFORMATION						
Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length (mm)	Angle	Length (mm)	Angle
HH		Header to Header	383			
HW		Header to Windshield	678			
HZ	HZ	Head to Roof	162		284	
NR	NB	Nose to Rim/Seat Back	473		611	
CD	CB	Chest to Dash/Seat Back	620		581	
CS		Chest to Steering Wheel	350			
KD(L)/KDA(L)°	KB(L)/KBA(L)°	Left Knee to Dash/Seat Back	162	12.0	314	10.9
KD(R)/KDA(R)°	KB(R)/KBA(R)°	Right Knee to Dash/Seat Back	124	16.1	325	12.6
PAX°	PAX°	Pelvic Tilt Angle X		0.0		0.0
	PAY°	Pelvic Tilt Angle Y		18.8		18.7
PHX	PHX	Hip Point to Striker (X-Axis)	230.7		211.6	
PHZ	PHZ	Hip Point to Striker (Z-Axis)	701.9		220.8	

DATA SHEET NUMBER 4
DUMMY LATERAL CLEARANCE DIMENSIONS



DUMMY LATERAL CLEARANCE MEASUREMENTS INFORMATION				
Code	Description	Units	Driver	Passenger
HR	Head to Side Header	mm	202	260
HS	Head to Side Window	mm	200	289
AD	Arm to Door	mm	256	172
HD	Hip Point to Door	mm	155	168

DATA SHEET 5 CAMERA AND INSTRUMENTATION DATA



	View	Coordinates †			Lens Length mm	Operating Frame Rate fps
		X	Y	Z		
		mm	mm	mm		
1	Overhead Overall	1758	2236	-6054	10	1000
2	Overhead Close-up	989	767	-5924	25	1000
3	Left Impact Point (MDB)	-2287	-162	-784	25	1000
4	Side Overall (MDB)	-2152	921	-1298	12.5	1000
5	Rear	-914	7925	-1486	50	1000
6	Left Front	-3048	-7620	-1397	25	1000
7	Driver Front (OB)				12.5	1000
8	Driver Side (OB)				12.5	1000
9	Passenger Side (OB)				12.5	1000
10	Real-time Left Rear				N/a	30
11	Real – Time In-run				N/a	30

Origin

X

Y

Z

Impact Point

Impact Point

Ground

Orientation

X

Y

Z

+(X) To Front of MDB

+(Y) To Right of MDB

+(Z) Down

*All measurements accurate to +/- 6 mm

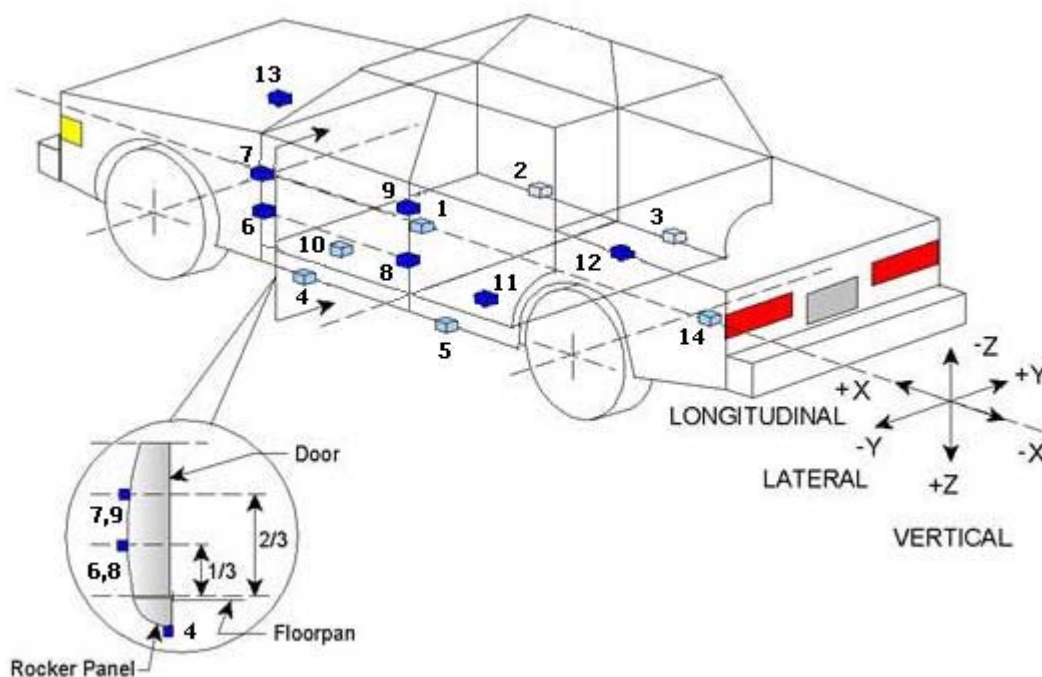
DATA SHEET 5
CAMERA AND INSTRUMENTATION DATA (CONTINUED)

Why did the cameras not operate?

The onboard hood camera was damaged at T0 and only recorded pre-images. The MDB data was lost at impact when the cables were severed due to the shape of the side of the vehicle. _____

INSTRUMENTATION	
Driver Dummy Channels	16
Passenger Dummy Channels	16
Vehicle Structure Accelerometers	23
MDB Accelerometers	5
Total	60

DATA SHEET 6
TEST VEHICLE ACCELEROMETER LOCATIONS

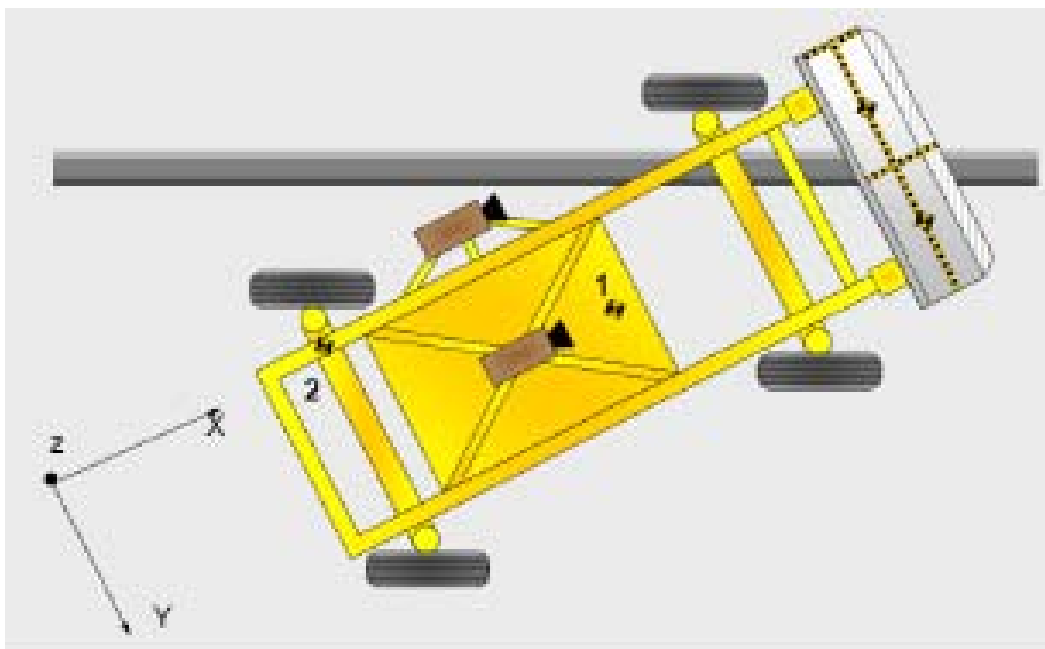


TEST VEHICLE ACCELEROMETER LOCATIONS				
Loc. No.	Accelerometer Location	Measurements (mm)		
		X	Y	Z
1	Vehicle CG	2755.9	54.7	179.1
2	Right Sill at Front Seat	2572.0	746.9	228.0
3	Right Sill at Rear Seat	1672.5	738.7	235.7
4	Left Sill at Front Door	2565.8	-735.0	259.7
5	Left Sill at Rear Door	1691.3	-734.6	259.9
6	A-Post Lower	3111.1	-837.6	-40.3
7	A-Post Middle	3099.1	-828.3	-248.0
8	B-Post Lower	2046.2	-823.2	-130.8
9	B-Post Middle	2026.2	-817.0	-304.0
10	Front Seat Track	2345.2	-577.3	89.2
11	Rear Seat Structure	1646.0	-555.0	1.50
12	Rt. Rear Occ. Compartment	1746.3	367.7	75.8
13	Engine Block	3780.2	191.6	-304.2
14	Rear Above Axle	1024.5	-17.8	35.7

Reference:

X - Rear surface of vehicle (+ forward)
Y - Vehicle centerline (+ right)
Z - Ground plane (+ down)

DATA SHEET 7
MDB ACCELEROMETER LOCATIONS



MDB ACCELEROMETER LOCATIONS				
Loc No.	Accelerometer Locations	Coordinates (mm)		
		X	Y	Z
1	MDB CG	1113	-1	311
2	MDB Rear	2812	-614	585

Reference

X - Face of MDB (+ forward)
Y - MDB centerline (+ to right)
Z - Ground plane (+ down)

**DATA SHEET NUMBER 8
 POST-TEST OBSERVATIONS**

TEST DUMMY INFORMATION AND CONTACT POINTS		
Dummy Body Part	Front Seat Dummy (ES-2re)	Rear Seat Dummy (SID-IIs)
Face	To Side Curtain Airbag	To Side Curtain Airbag
Top of Head	To Side Curtain Airbag & Roof Rail	To Side Curtain Airbag & Roof Rail
Left Side of Head	To Side Curtain Airbag	To Side Curtain Airbag
Back of Head	Along Head Rest to the Side Curtain Airbag	Rebounds Into Head Rest
Left Shoulder	To Side Curtain Airbag	To Interior Door Panel
Upper Torso	To Seat Mounted Side Airbag	To Interior Door Panel
Lower Torso	To Seat Mounted Side Airbag	To Interior Door Panel
Left Hip	To Interior Door Panel	To Interior Door Panel
Left Knee	To Interior Door Panel	To Interior Door Panel

POST TEST DOOR PERFORMANCE					
Description	Struck Side		Non-Struck Side		Rear Hatch/ Other Door
	Front	Rear	Front	Rear	
Remained Closed and Operational	No	No	Yes	Yes	Yes
Total Separation from Vehicle at Hinges of Latches	No	No	No	No	No
Latch of Hinge Systems Pulled Out of Their Anchorages	No	No	No	No	No
Disengaged from Latched Position	No	No	No	No	No
Latch Separated from Striker	No	No	No	No	No
Jammed Shut	Yes	Yes	No	No	No
If Door Opened at Striker, Record Width of Opening at Striker (mm)	N/a	N/a	N/a	N/a	N/a

POST TEST SEAT PERFORMANCE				
Description	Struck Side		Non-Struck Side	
	Front	Rear	Front	Rear
Seat Movement Along Seat Track	No	No	No	No
Seat Disengagement from Floor Pan	No	No	No	No
Seat Back Movement from Initial Position	No	No	No	No
Seat Back Collapse	No	No	No	No

**DATA SHEET NUMBER 8
 POST-TEST OBSERVATIONS (CONTINUED)**

POST TEST STRUCTURAL OBSERVATIONS	
Critical Areas of Performance	Observations/Conclusions
Pillar Performance	No Damage
Sill Separation	Max Sill Separation of 130 mm at 1050 Line
Windshield Damage	No Damage
Window Damage	No Damage
Other Notable Effects	None Noted

SUPPLEMENTAL RESTRAINT INFORMATION				
Restraint Type	Struck Side Driver		Struck Side Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes – Steering Wheel	Did Not Deploy		
Knee Airbag	No	N/a		
Side Curtain Airbag	Yes – Side Header	Deployed Properly	Yes – Side Header	Deployed Properly
Side Torso Airbag	Yes – Seat Back	Deployed Properly	No	N/a
Seat Belt Pretensioner	Yes	Deployed Properly	Yes	Deployed Properly
Seat Belt Load Limiter	Yes	N/a	No	N/a
Other	No	N/a	No	N/a

IMPACT POINT LOCATION DATA			
Measured Parameter	Units	Tolerance	Value
Vehicle Wheel Base	mm		2625
Vertical Impact Reference Line (Aft of Front Axle)(Intended Impact Point)	mm		372
Actual Impact Point (Aft of Front Axle)	mm		327
Horizontal Offset (+ forward / - rear)	mm	+/- 50 of Intended Impact Point	45
Vertical Offset (+ down / - up)	mm	+/- 20 of Intended Impact Point	5

DATA SHEET NUMBER 9
MDB SUMMARY OF RESULTS

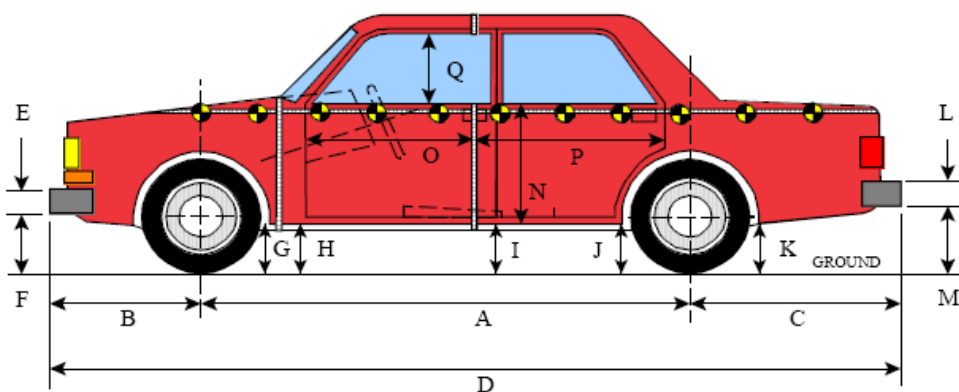
MDB SPECIFICATIONS	
Measurement Description	Length (mm)
Overall Width of Framework Carriage	1250
Overall Length Including Honeycomb Frame	4116
Wheel Base of Framework Carriage	2578
CG Location of Front Axle	1112

MDB WEIGHTS				
	Units	Front Axle	Rear Axle	Total
Left	kg	431.8	247.7	679.5
Right	kg	328.9	351.5	680.4
Ratio	%	55.9	44.1	100.0
Totals	kg	760.7	599.2	1359.9

SPEED AND ANGLE AT IMPACT DATA			
Measured parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	62.2
Trap No. 2 Velocity (Secondary)	km/h	61.1 to 62.7	62.1
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90
MDB Forward Line of Motion to Target Vehicle	degrees	62.5 to 63.5	63.0
MDB Crabbed Angle to MDB Forward Line of Motion	degrees	26 to 28	27.0

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE					
Vertical Location			From Centerline		Maximum Crush
Row	Description	Height	Distance	Direction	
A	Bottom of Barrier	279	800	Left & Right	230
B	Bottom of Bumper	329	800	Left	130
C	Top of Bumper	533	800	Right	108
D	Top of Barrier	837	800	Left	144

DATA SHEET NUMBER 10
TEST VEHICLE PROFILE MEASUREMENTS



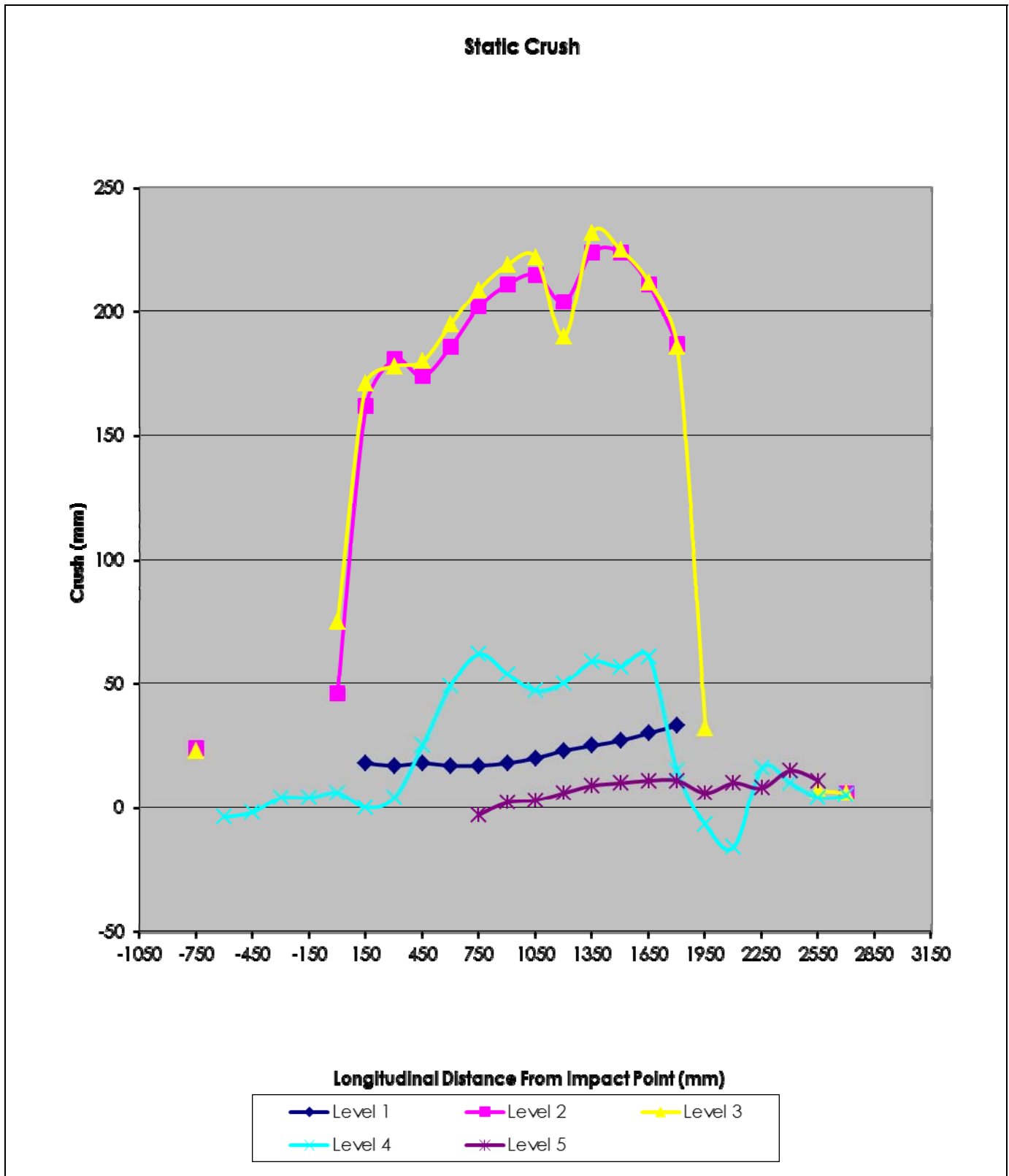
VEHICLE PRE - AND POST - TEST MEASUREMENT INFORMATION				
Code	Description	Pre test	Post test	Difference
		mm	mm	mm
A	Wheelbase	2625	2608	-17
B	Front Axle to FSOV	625	841	216
C	Rear Axle to RSOV	830	829	-1
D	Total Length at Centerline	4529	4565	34
E	Front Bumper Thickness	150	176	26
F	Front Bumper Bottom to Ground	463	466	3
G	Sill Height at Front Wheel Well	270	273	3
H	Sill Height at Front Door Leading Edge	271	274	3
I	Sill Height at B-Pillar	283	285	2
J1	Sill Height at Rear Wheel Well	272	258	-14
J2	Pinch Weld Height at Rear Wheel Well	285	282	-3
K	Sill Height Aft of Rear Wheel Well	330	300	-30
L	Rear Bumper Thickness	176	176	0
M	Rear Bumper Bottom to Ground	401	378	-23
N	Sill Height to Bottom of Front Window Sill	815	650	-165
O	Front Door Leading Edge to Impact C/L	1103	1087	-16
P	Rear Door Trailing Edge to Impact C/L	956	931	-25
Q	Front Window Opening	437	427	-10
R	Right Side Length	4080	4090	10
S	Left Side Length	4080	4278	198
T	Vehicle Width at B-Pillar	1821	1660	-161

Maximum Exterior Crush Measurements				
Level	Measurement Description	Height Above Ground	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	278	33	1800
2	Occupant Hip Point	663	215	1050
3	Mid-Door	689	232	1350
4	Window Sill	1048	62	750
5	Window Top	1534	15	2400

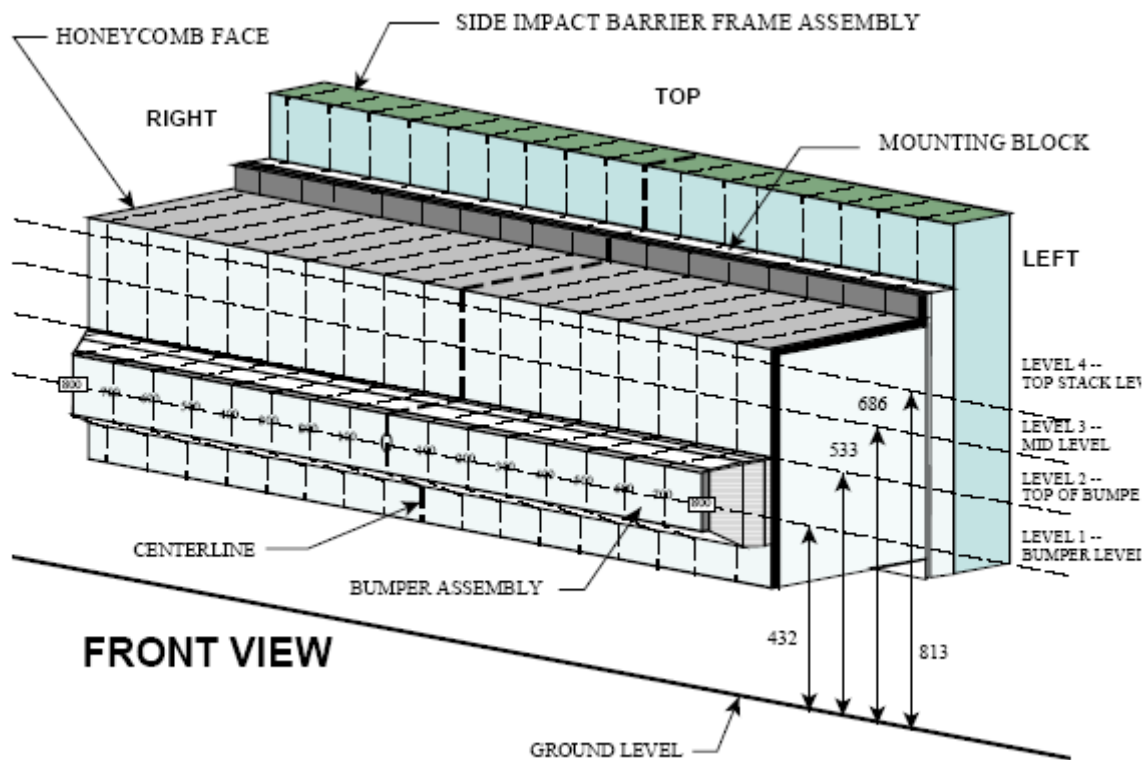
DATA SHEET NUMBER 11
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS (CONTINUED)

EXTERIOR CRUSH MEASUREMENTS AT EACH LEVEL																
Level		1			2			3			4			5		
		Pre	Post	Crush	Pre	Post	Crush	Pre	Post	Crush	Pre	Post	Crush	Pre	Post	Crush
DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT	-1050															
	-900															
	-750				261	285	24	262	285	23						
	-600										388	384	-4			
	-450										377	375	-2			
	-300										365	369	4			
	-150										355	359	4			
	0				256	302	46	255	330	75	348	354	6			
	150	292	310	18	259	421	162	259	430	171	338	338	0			
	300	300	317	17	262	443	181	261	439	178	342	346	4			
	450	311	329	18	262	436	174	261	441	180	328	353	25			
	600	320	337	17	262	448	186	262	457	195	324	373	49			
	750	322	339	17	261	463	202	261	470	209	318	380	62	547	544	-3
	900	322	340	18	262	473	211	261	480	219	314	368	54	536	538	2
	1050	319	339	20	261	476	215	260	482	222	315	362	47	532	535	3
	1200	310	333	23	263	467	204	262	452	190	314	364	50	532	538	6
	1350	301	326	25	263	487	224	262	494	232	313	372	59	533	542	9
	1500	295	322	27	261	485	224	260	485	225	313	370	57	536	546	10
	1650	290	320	30	259	470	211	258	470	212	312	373	61	536	547	11
	1800	287	320	33	253	440	187	253	439	186	314	329	15	538	549	11
	1950							252	284	32	298	291	-7	543	549	6
	2100										303	287	-16	542	552	10
	2250										326	342	16	548	556	8
	2400										331	341	10	558	573	15
	2550							253	260	7	342	346	4	568	579	11
	2700				273	279	6	274	280	6	354	359	5			
	2850															
	3000															
	3150															
	3330															

DATA SHEET NUMBER 11
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS (CONTINUED)



DATA SHEET NUMBER 12
MDB EXTERIOR STATIC CRUSH MEASUREMENTS



NOTE: Dimensions are shown in millimeters, mm

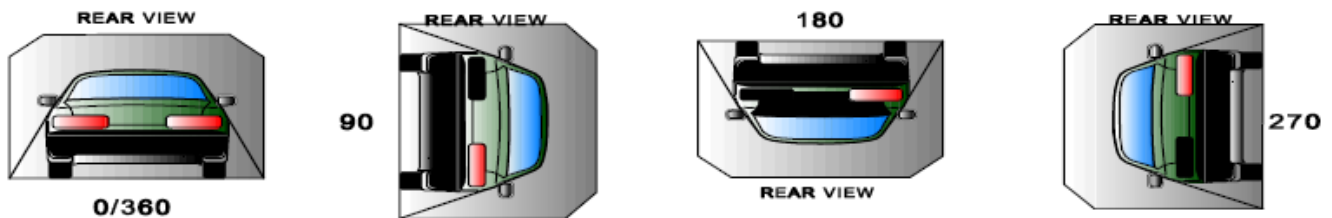
DEFORMABLE BARRIER STATIC CRUSH																	
	Distance Left of Center								C _L	Distance Right of Center							
	800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800
1	230	227	217	212	217	218	217	218	223	220	225	224	225	222	223	225	230
2	130	111	113	109	109	105	101	99	95	99	98	99	89	91	92	93	103
3	92	77	69	59	49	39	34	33	36	38	58	52	41	41	48	67	108
4	144	121	90	77	62	62	59	48	52	58	72	84	69	65	84	109	136

FMVSS 301 STATIC ROLLOVER RESULTS

Temperature at Time of Impact: 21° C Test Time: 2:30 pm

STODDARD SOLVENT SPILLAGE MEASUREMENTS				
Period	Description	Maximum Allowable Spillage	Spillage	
			Amount	Location
A	From Impact Until Vehicle Motion Ceases	1 oz	0	N/a
B	5 Minutes After Vehicle Motion Ceases	5 oz	0	N/a
C	Next 25 Minutes	1 oz/minute	0	N/a
D	Spillage Details:			

FMVSS 301 STATIC ROLLOVER



ROLLOVER SOLVENT COLLECTION TIME TABLE			
Test Phase	Rotation Time	Hold Time	Total Time
0° to 90°	65	300	365
90° to 180°	65	300	365
180° to 270°	65	300	365
270° to 360°	65	300	365

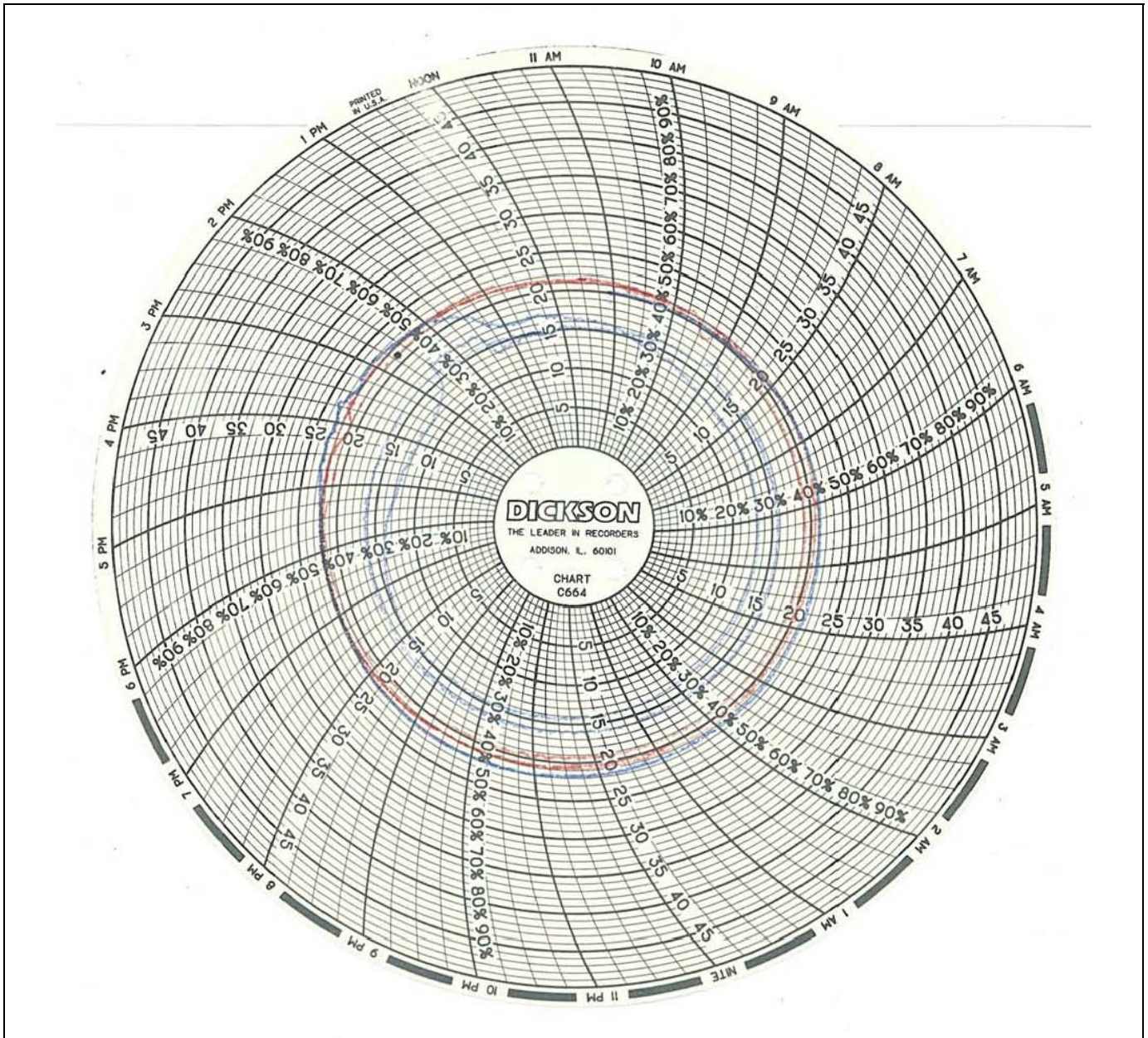
FMVSS 301 STATIC ROLLOVER RESULTS (CONTINUED)

FMVSS No. 301 Rollover Spillage Table				
	First 5 Minutes	Sixth Minute	Seventh Minute	Eighth Minute
0° to 90°	0	0	0	N/a
90° to 180°	0	0	0	N/a
180° to 270°	0	0	0	N/a
270° to 360°	0	0	0	N/a

FMVSS No. 301 Static Rollover - Spillage				
	First five minutes (oz)	Sixth minute (oz)	Seventh minute (oz)	Eighth minute (oz)
Max allowable leakage	5.0	1.0	1.0	1.0
0° to 90°	0	0	0	N/a
90° to 180°	0	0	0	N/a
180° to 270°	0	0	0	N/a
270° to 360°	0	0	0	N/a

Rollover Solvent Spillage Location Table	
Test Phase	Spillage Location
0° to 90°	N/a
90° to 180°	N/a
180° to 270°	N/a
270° to 360°	N/a

DATA SHEET 14
DUMMY/VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION DATA



Test Vehicle: 2012 Honda CR-V 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

APPENDIX A PHOTOGRAPHS

LIST OF PHOTOGRAPHS

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No. 092	Pre-Test Ballast View	A-50
No. 093	Post-Test Primary and Redundant Speed Trap Read-Out	A-51
No. 094	FMVSS No. 301 Static Rollover 0°	A-51
No. 095	FMVSS No. 301 Static Rollover 90°	A-52
No. 096	FMVSS No. 301 Static Rollover 180°	A-52
No. 097	FMVSS No. 301 Static Rollover 270°	A-53
No. 098	FMVSS No. 301 Static Rollover 360°	A-53
No. 099	Impact Event	A-54
No. 100	Monroney Label	A-54
No. 101	Driver Head Restraint Use and Adjustment Information From Vehicle's Owner Manual	A-55
No. 102	Left Rear Passenger Head Restraint Use and Adjustment Information From Vehicle's Owner Manual Impact event	A-55



Figure A-1: As-Delivered Right Front 3-4 View of Test Vehicle



Figure A-2: As-Delivered Left Rear 3-4 View of Test Vehicle

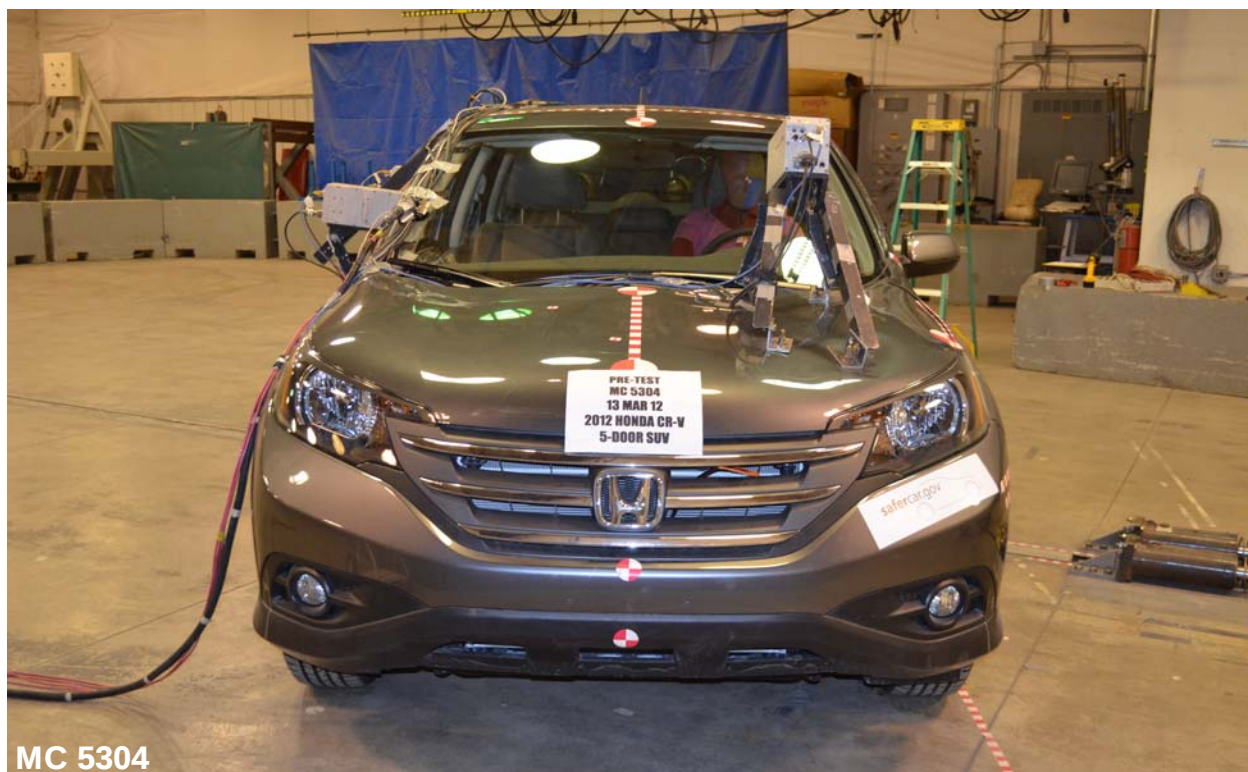


Figure A-3: Pre-Test Frontal View of the Test Vehicle



Figure A-4: Post-Test Frontal View of Test Vehicle



Figure A-5: Pre-Test Left Front 3-4 View of Test Vehicle

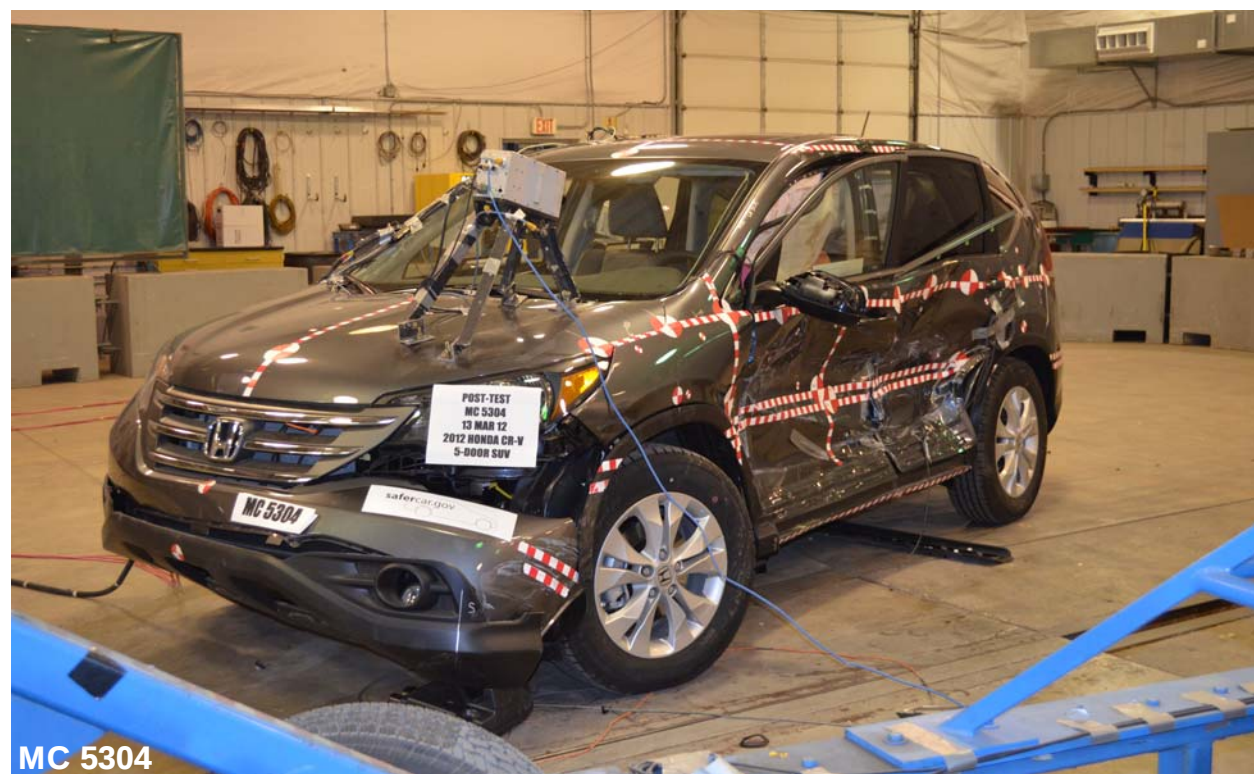


Figure A-6: Post-Test Left Front 3-4 View of Test Vehicle



MC 5304

Figure A-7: Pre-Test Left Side View of Test Vehicle



MC 5304

Figure A-8: Post-Test Left Side View of Test Vehicle



MC 5304

Figure A-9: Pre-Test Left Rear 3-4 View of Test Vehicle



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Figure A-10: Post-Test Left Rear 3-4 View of Test Vehicle

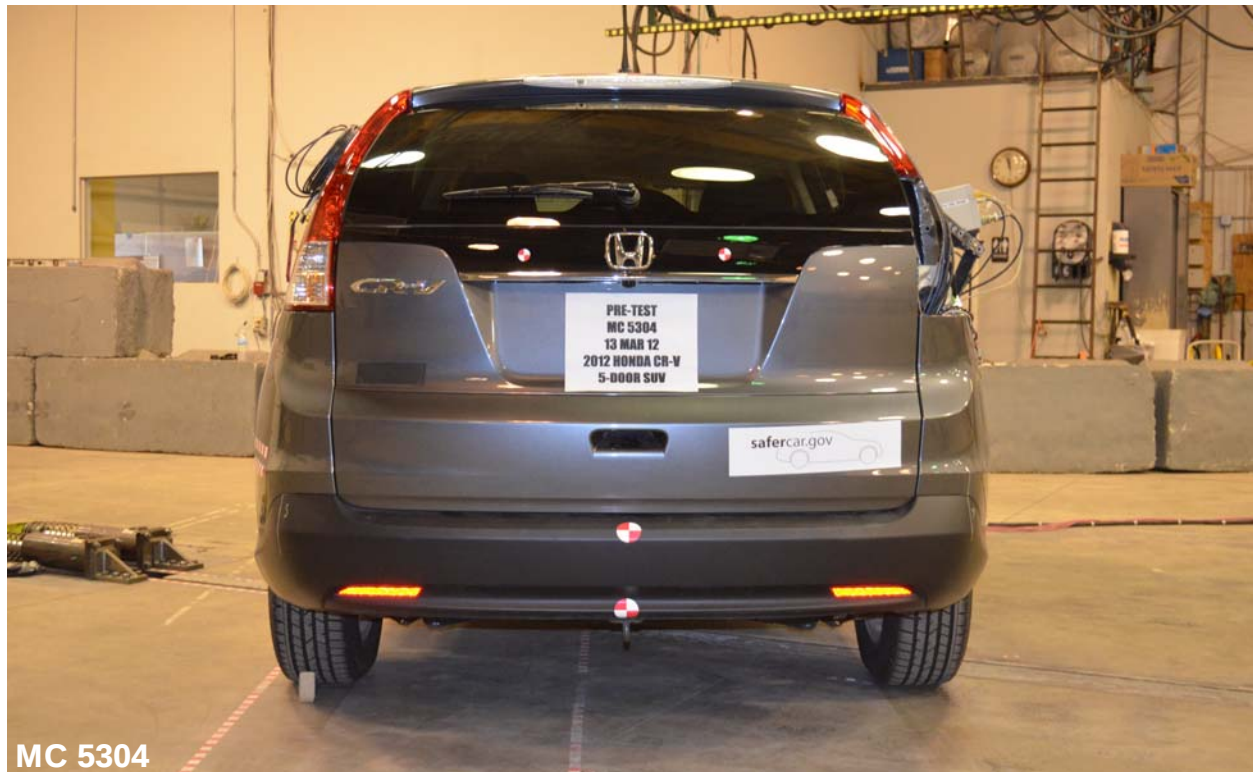


Figure A-11: Pre-Test Rear View of Test Vehicle



Figure A-12: Post-Test Rear View of Test Vehicle



Figure A-13: Pre-Test Right Side View of Test Vehicle



Figure A-14: Post-Test Right Side View of Test Vehicle



Figure A-15: Pre-Test Overhead View of Test Area



Figure A-16: Post-Test Overhead View of Test Area



Figure A-17: Pre-Test Left Side View of MDB Positioned Against Side of Test Vehicle



Figure A-18: Pre-Test Right Side View of MDB Positioned Against Side of Test Vehicle



Figure A-19: Pre-Test Close-Up View of Impact Point Target



Figure A-20: Post-Test Close-Up View of Impact Point Target



Figure A-21: Pre-Test Left Front Door Latch Close-Up



Figure A-22: Post-Test Left Front Door Latch Close-Up



Figure A-23: Pre-Test Left Rear Door Latch Close-Up



Figure A-24: Post-Test Left Rear Door Latch Close-Up



Figure A-25: Pre-Test Front Close-Up View of Driver Dummy



Figure A-26: Post-Test Front Close-Up View of Driver Dummy



Figure A-27: Pre-Test Left Side View of Driver Dummy Showing Belt and Chalking

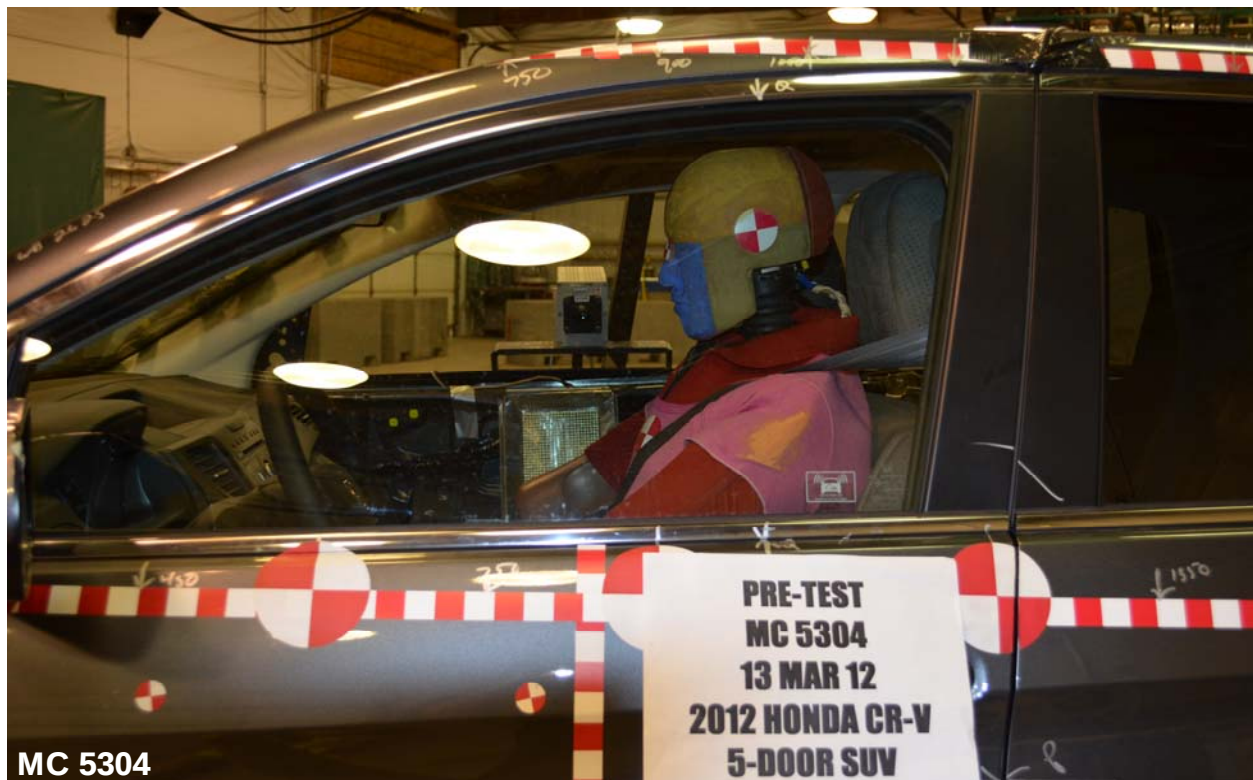


Figure A-28: Pre-Test Left Side View of Driver Dummy Shoulder and Door Top View



Figure A-29: Post-Test Left Side View of Driver Dummy Shoulder and Door Top View



Figure A-30: Pre-Test Frontal View of Driver Seat Back Prior to Dummy Positioning



Figure A-31: Pre-Test Frontal View of Driver Dummy Head and Shoulders in Relation to Head Restraint



Figure A-32: Pre-Test Frontal View of Driver Seat Pan Prior to Dummy Positioning



Figure A-33: Pre-Test Overhead View of Driver Dummy Thighs on Seat Pan



Figure A-34: Pre-Test Placement of Driver Dummy's Feet



Figure A-35: Pre-Test View of Belt Anchorage for Driver Dummy



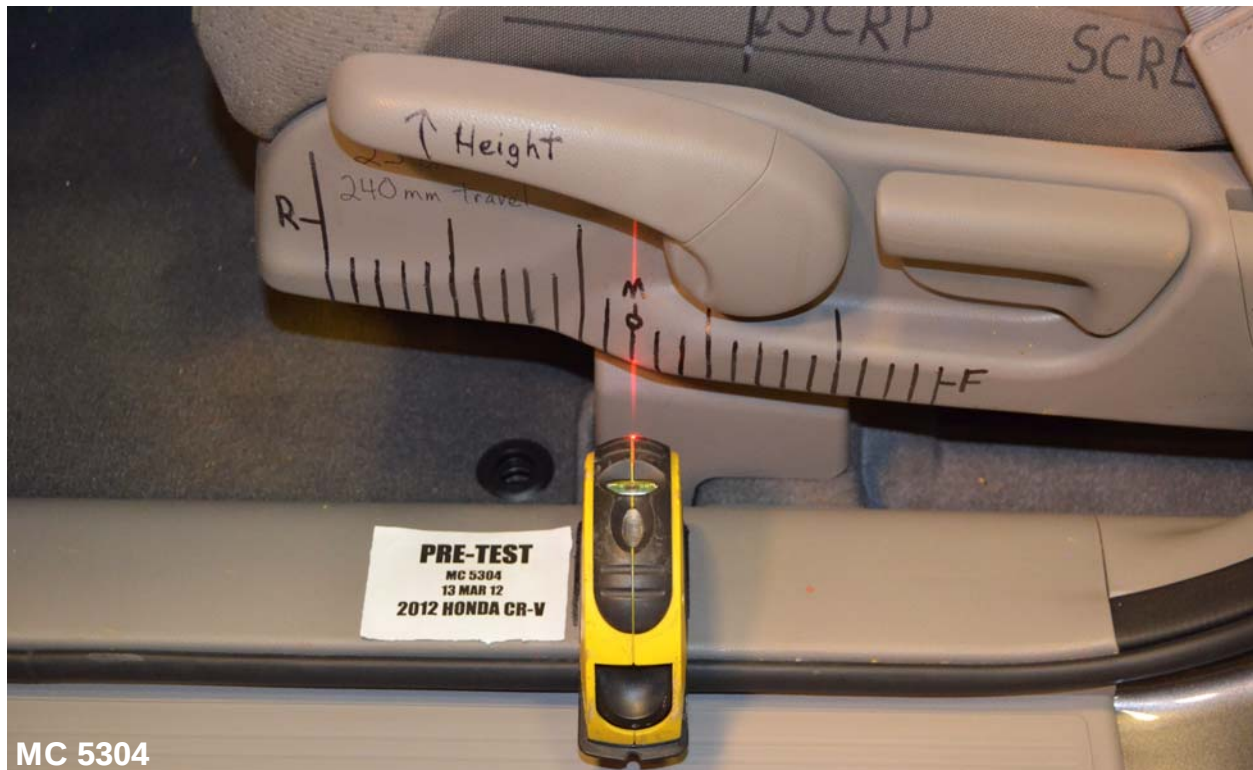
Figure A-36: Pre-Test Left Side View of Steering Wheel



Figure A-37: View of Disengaged Parking Brake



Figure A-38: Pre-Test View of Parking Brake



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Figure A-39: Pre-Test Close-Up Left Side View of Driver Seat Track



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Figure A-40: Pre-Test Close-Up Left Side View of Driver Seat Back



Figure A-41: Pre-Test Close-Up View of Driver Seat Back or Head Restraint



Figure A-42: Pre-Test Driver Dummy and Door Clearance View

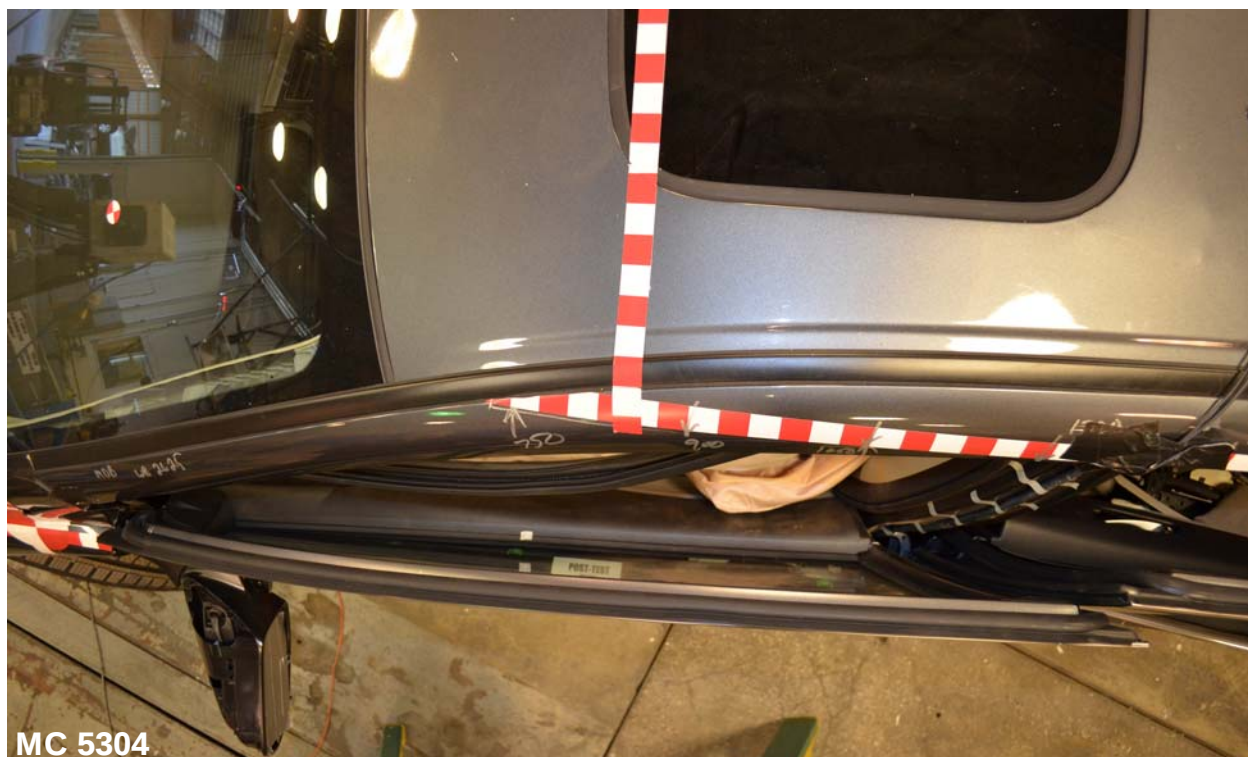


Figure A-43: Post-Test Driver Dummy and Door Clearance View



Figure A-44: Pre-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



Figure A-45: Post-Test Right Side View of Driver Dummy and Front Seat Occupant Compartment



Figure A-46: Pre-Test Driver Inner Door Panel View



Figure A-47: Post-Test Driver Inner Door Panel View Showing Driver Dummy Contact Locations



Figure A-48: Post-Test Driver Dummy Close-Up Head Contact With Vehicle Interior View



Figure A-49: Post-Test Driver Dummy Close-Up Head Contact with Side Airbag View



Figure A-50: Post-Test Driver Dummy Close-Up Torso Contact with Vehicle Interior View



Figure A-51: Post-Test Driver Dummy Close-Up Torso Contact with Side Air Bag View



Figure A-52: Post-Test Driver Dummy Close-Up Pelvis Contact With Vehicle Interior View

Not Applicable

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Figure A-53: Post-Test Driver Dummy Close-Up Pelvis Contact with Side Airbag View - N/a



Figure A-54: Pre-Test Left Side View of Rear Passenger Dummy Showing Belt and Chalking



Figure A-55: Pre-Test Left Side View of Rear Passenger Dummy Shoulder and Door Top View



Figure A-56: Post-Test Left Side View of Rear Passenger Dummy Shoulder and Door Top View



Figure A-57: Pre-Test Frontal View of Rear Passenger Seat Back Prior to Dummy Positioning



Figure A-58: Pre-Test Frontal View of Rear Passenger Dummy Head and Shoulders in Relation to Head Restraint



Figure A-59: Pre-Test Overhead View of Rear Passenger Seat Pan Prior to Dummy Positioning



Figure A-60: Pre-Test Overhead View of Rear Passenger Dummy Thighs on Seat Pan



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Figure A-61: Pre-Test View of Rear Passenger Dummy's Neck Showing Position of Adjustable Neck Bracket



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Figure A-62: Pre-Test View of Rear Passenger Dummy's Head Showing Dummy's Head is Level



Figure A-63: Pre-Test Placement of Rear Passenger Dummy's Feet



Figure A-64: Pre-Test View of Belt Anchorage for Rear Passenger Dummy



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Figure A-65: Pre-Test Close-Up Left Side View of Rear Passenger Seat Track



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Figure A-66: Pre-Test Close-Up Left Side View of Rear Passenger Seat Back



Figure A-67: Pre-Test Close-Up View of Rear Passenger Seat Back or Head Restraint



Figure A-68: Pre-Test Rear Passenger Dummy and Door Clearance View



Figure A-69: Post-Test Rear Passenger Dummy and Door Clearance View



Figure A-70: Pre-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



Figure A-71: Post-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



Figure A-72: Pre-Test Rear Passenger Inner Door Panel View



Figure A-73: Post-Test Rear Passenger Inner Door Panel View Showing Dummy Contact Locations



Figure A-74: Post-Test Rear Passenger Dummy Close-Up Head Contact with Vehicle Interior View



Figure A-75: Post-Test Rear Passenger Dummy Close-Up Head Contact with Side Airbag View



Figure A-76: Post-Test Rear Passenger Dummy Close-Up Torso Contact with Vehicle Interior View

Not Applicable

MC 5304

Figure A-77: Post-Test Rear Passenger Dummy Close-Up Torso Contact with Side Airbag View - N/a



MC 5304

Figure A-78: Post-Test Rear Passenger Dummy Close-up Pelvis Contact with Vehicle Interior View

Not Applicable

MC 5304

Figure A-79: Post-Test Rear Passenger Dummy Close-Up Pelvis Contact with Side Airbag View - N/a



Figure A-80: Pre-Test View of Fuel Filler Cap or Fuel Filler Neck

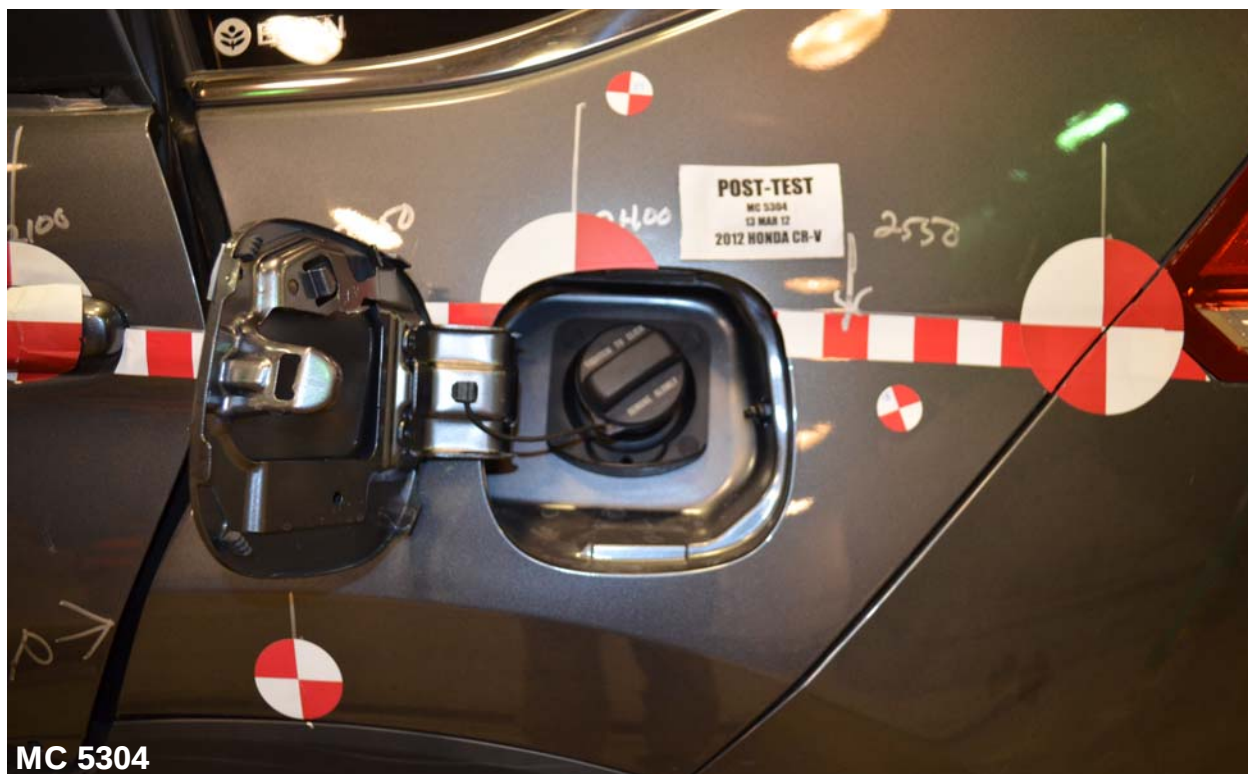


Figure A-81: Post-Test View of Fuel Filler Cap or Fuel Filler Neck



Figure A-82: Pre-Test Front View of MDB Impactor Face

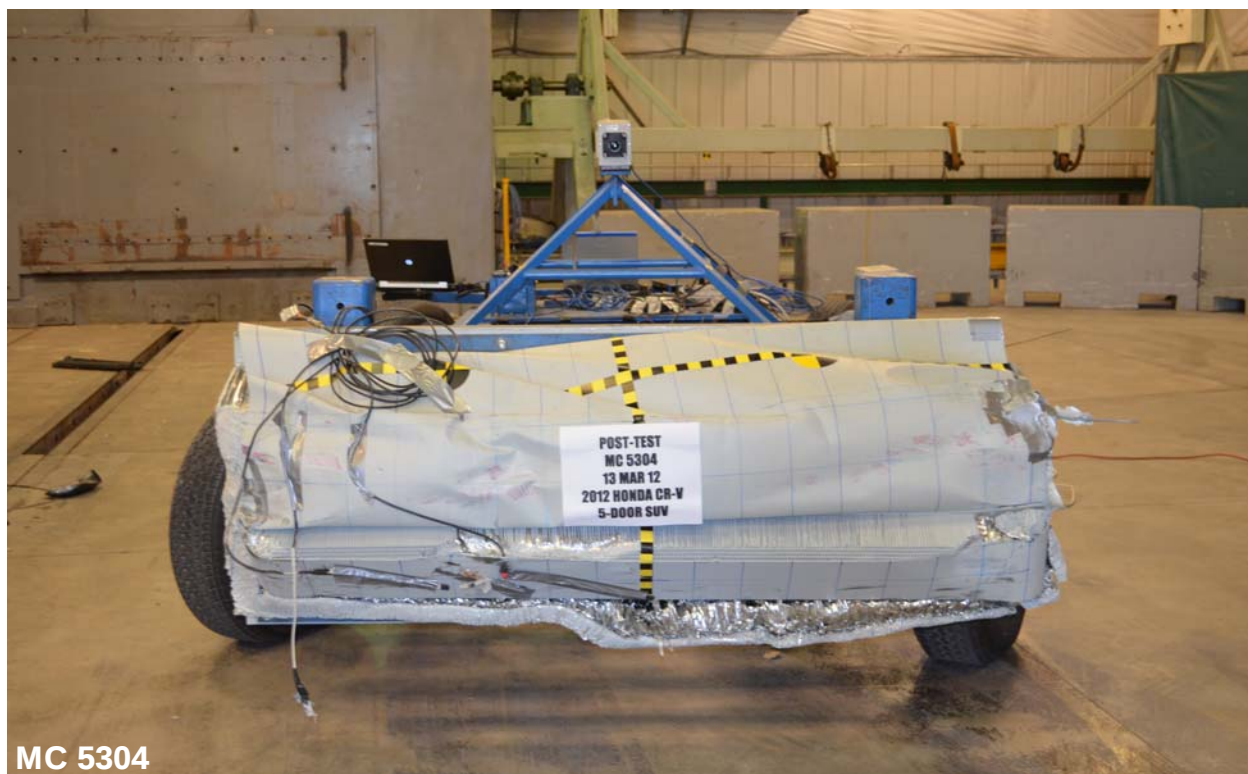


Figure A-83: Post-Test Front View of MDB Impactor Face



Figure A-84: Pre-Test Top View of MDB Impactor Face



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Figure A-85: Post-Test Top View of MDB Impactor Face



MC 5304

Figure A-86: Pre-Test Left Side View of MDB Impactor Face



MC 5304

Figure A-87: Post-Test Left Side View of MDB Impactor Face



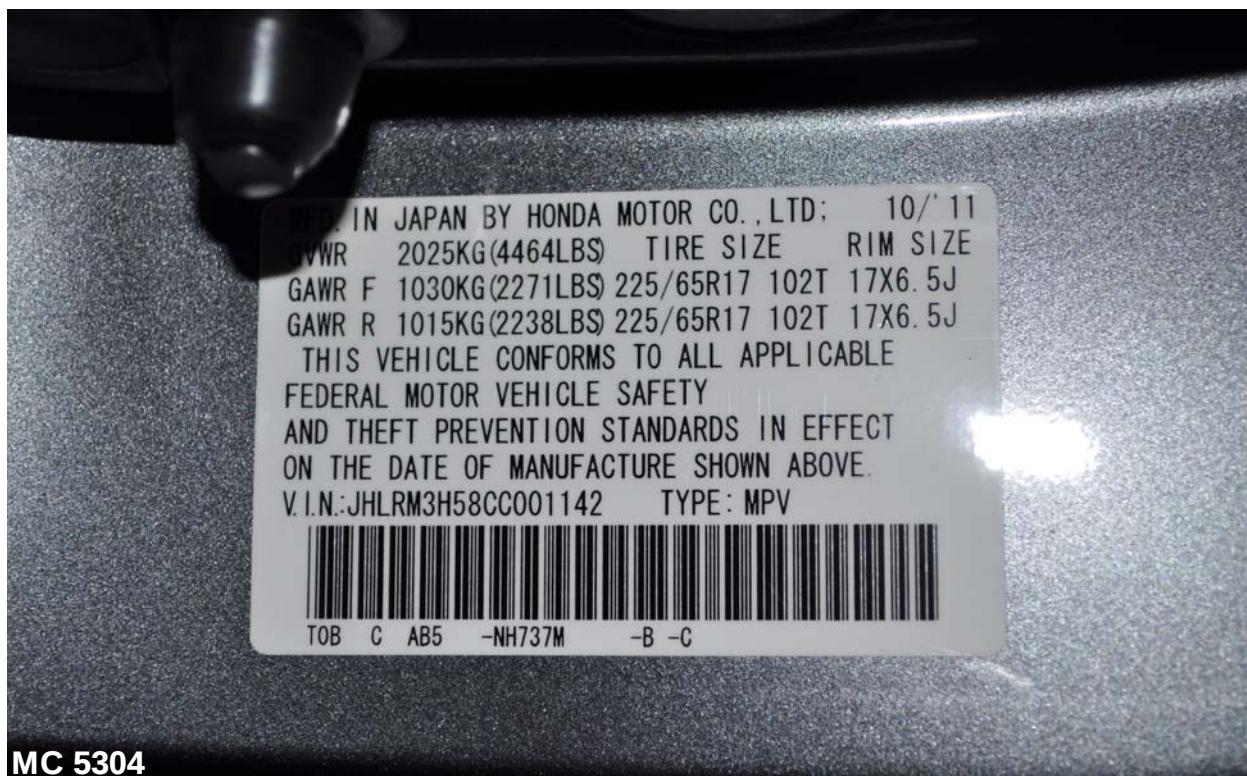
MC 5304

Figure A-88: Pre-Test Right Side View of MDB Impactor Face



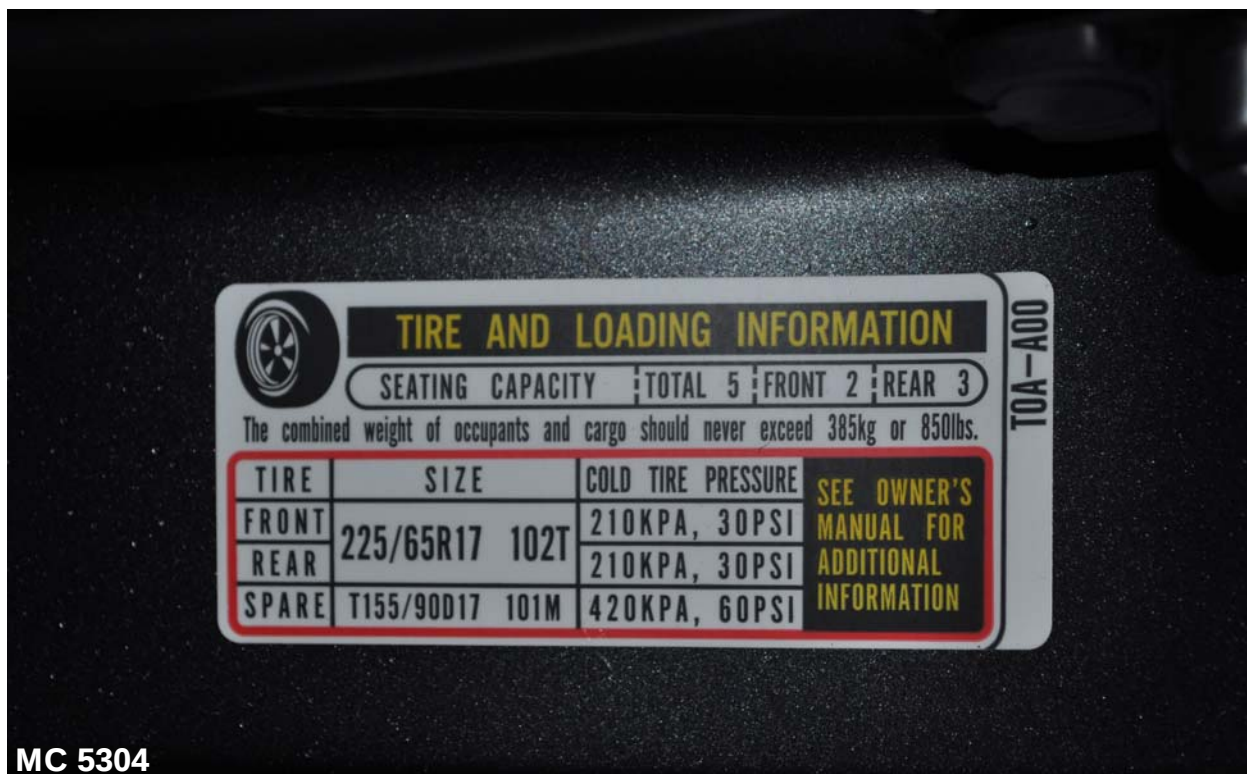
MC 5304

Figure A-89: Post-Test Right Side View of MDB Impactor Face



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Figure A-90: Close-Up View of Vehicle's Certification Label



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Figure A-91: Close-Up View of Vehicle's Tire Information Placard or Label



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Figure A-92: Pre-Test Ballast View



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Figure A-93: Post-Test Primary and Redundant Speed Trap Read-Out



MC 5304

Figure A-94: FMVSS No. 301 Static Rollover 0 Degrees

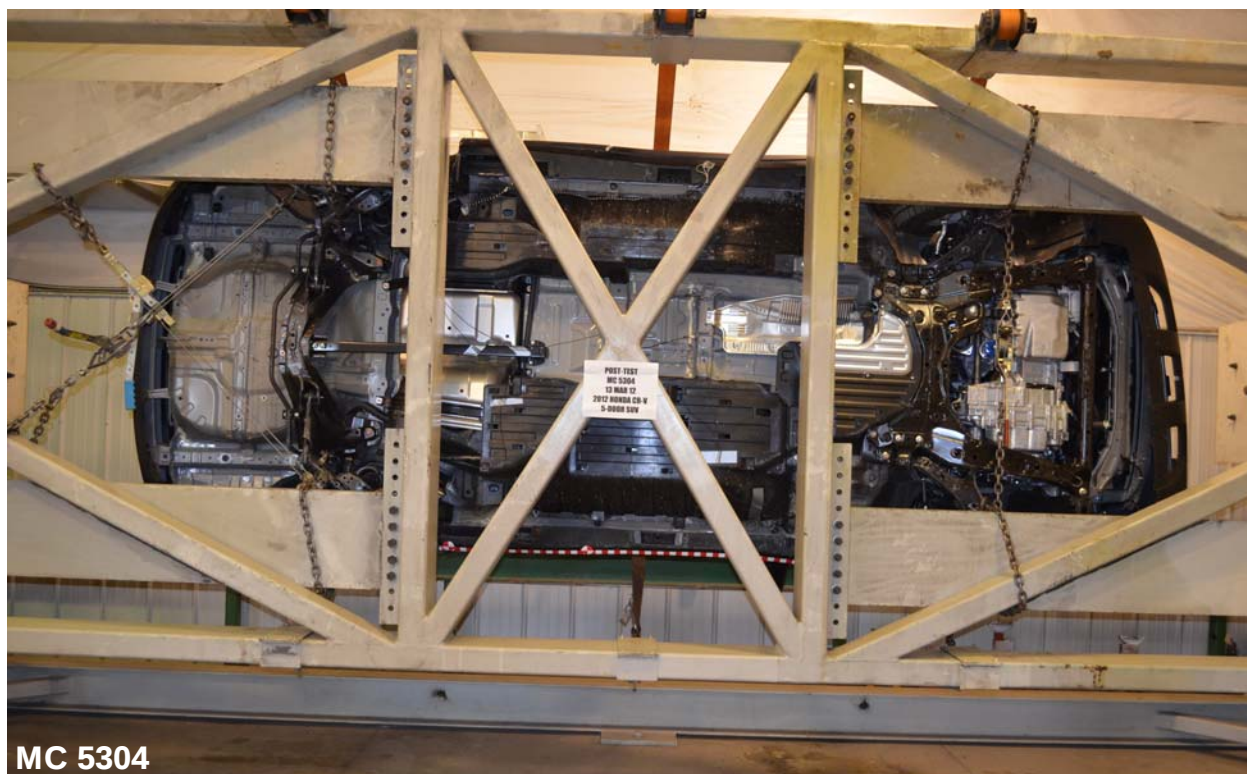


Figure A-95: FMVSS No. 301 Static Rollover 90 Degrees

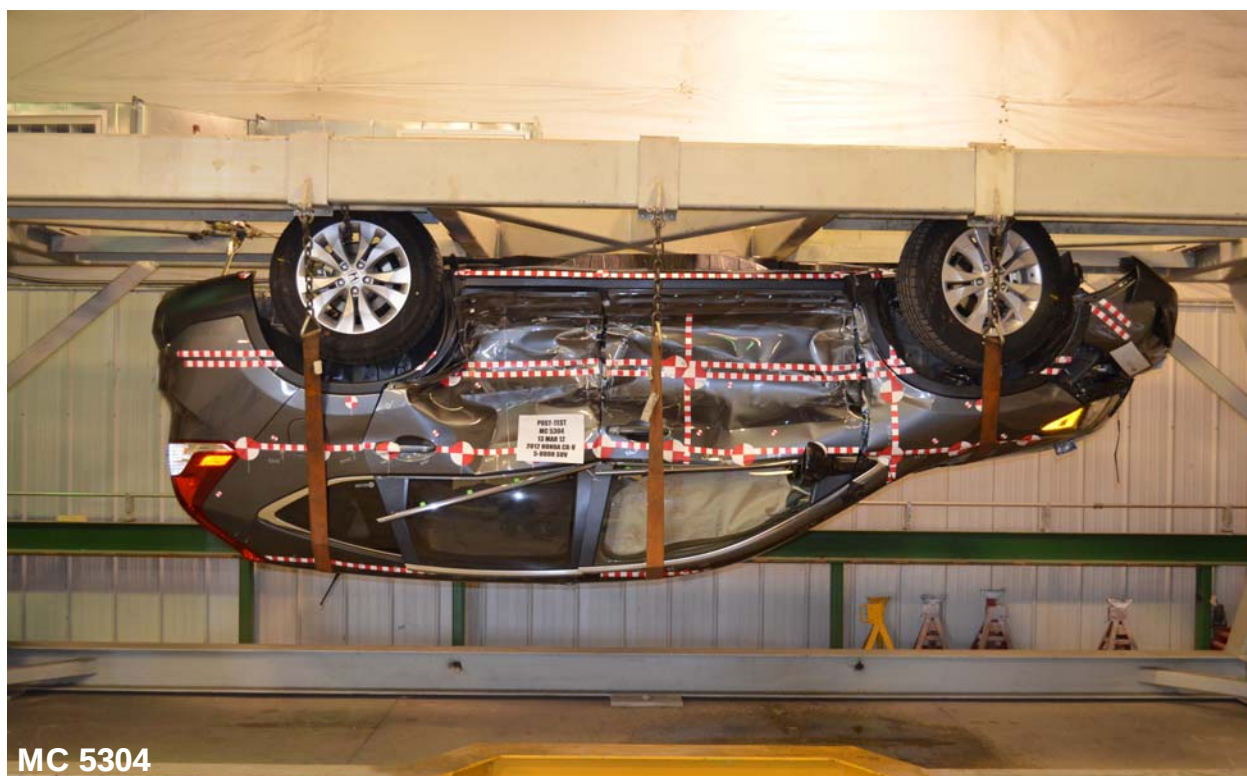


Figure A-96: FMVSS No. 301 Static Rollover 180 Degrees

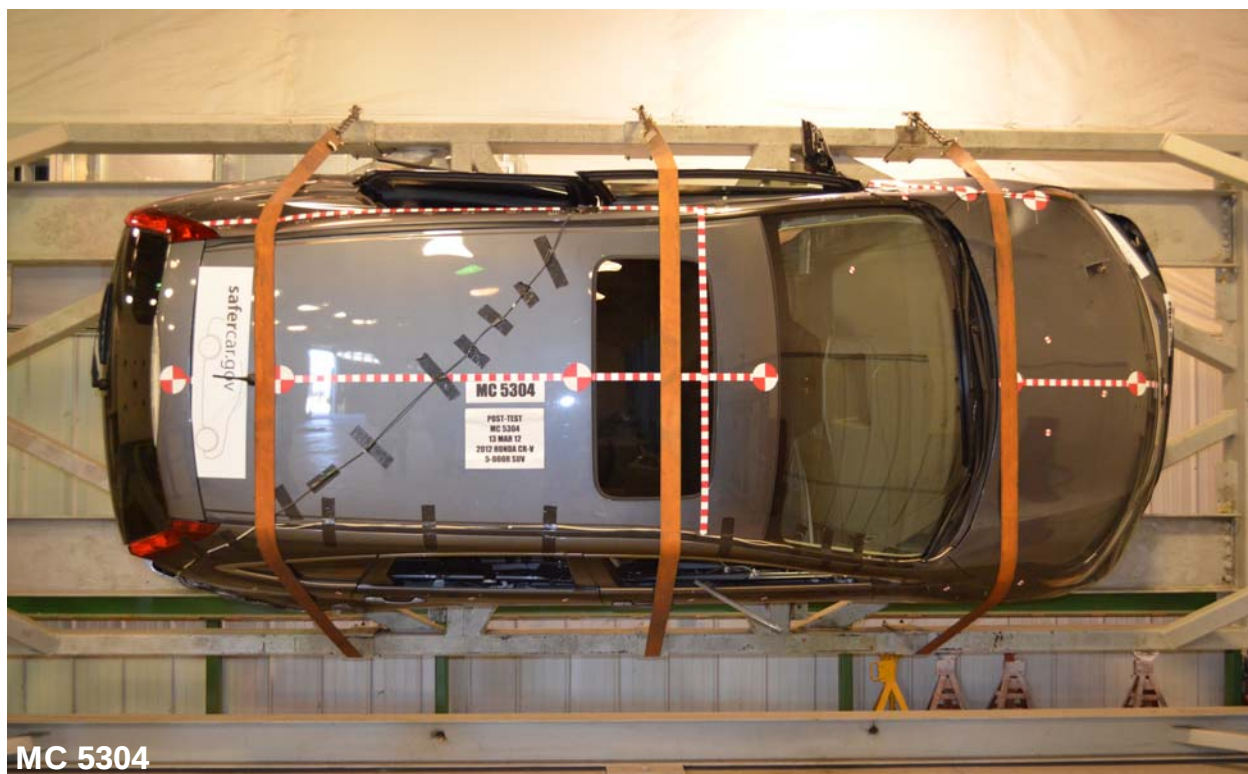


Figure A-97: FMVSS No. 301 Static Rollover 270 Degrees

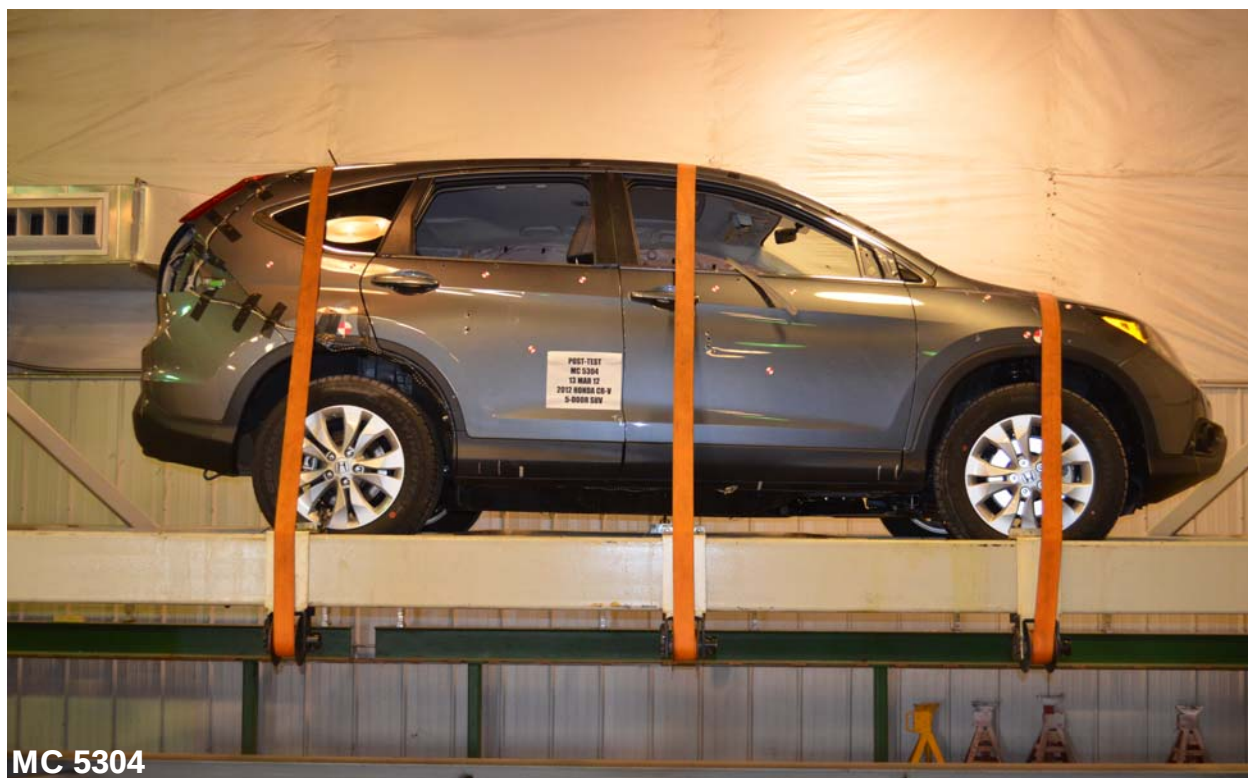


Figure A-98: FMVSS No. 301 Static Rollover 360 Degrees



Figure A-99: Impact Event

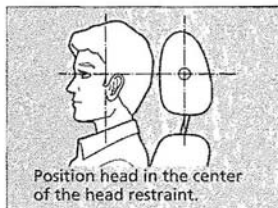
HONDA		2012 CR-V 5DR 2WD EX VEHICLE NUMBER: JHLRM3H58CC001142 ENGINE NUMBER: K24Z7-1562227 EXT. POLISHED METAL M. CONTROL NUMBER: 058185 INT. GRAY																			
STANDARD EQUIPMENT AT NO EXTRA COST * TECHNICAL FEATURES * 185hp 2.4-Liter DOHC 16-Valve i-VTEC 4-Cylinder Engine 5-Speed Automatic Transmission with Grade Logic Control 4-Wheel Disc Brakes - Front MacPherson Strut Suspension - Rear Multi-Link Suspension - Drive-by-Wire Throttle System - Electric Power-Assisted Rack-and-Pinion Steering - Front and Rear Stabilizer Bars - Immobilizer Theft Deterrent System * SAFETY FEATURES * - Driver's and Front Passenger's Dual-Stage Airbags (SRS) - Driver's and Front Passenger's Side Airbags - Side Curtain Airbags with Roll-Over Sensor - Vehicle Stability Assist (VSA) - Anti-Lock Braking System (ABS) - Electronic Brake Distribution (EBD) - Brake Assist 3-Point Seat Belts - Side-Impact Door Beams - Tire Pressure Monitoring System - ACE Body Structure - Front and Rear Crumple Zones - LATCH System for Child Seats * INTERIOR FEATURES * - AM/FM/CD Audio System with 6 Speakers - Steering Wheel-Mounted Controls - Bluetooth HandsFreeLink		Manufacturer's Suggested Retail Price \$24,395.00 Full Tank of Fuel No Charge H31545 5 miles 10/11																			
Environmental Performance Protect the environment, choose vehicles with higher scores : Global Warming Score Smog Score 		Destination and Handling 810.00 TOTAL VEHICLE PRICE (includes Pre-Delivery Service) \$25,205.00 License and title fees, state and local taxes and dealer options and accessories are not included in the manufacturer's suggested retail price.																			
Environmental Performance Protect the environment, choose vehicles with higher scores : Global Warming Score Smog Score 		FOR VEHICLES IN THIS CARLINE U.S./Canadian Parts Content: 65 % Major Sources of Foreign Parts Content: JAPAN 20 % NOTE: Parts content does not include final assembly, distribution or other non-parts costs.																			
Environmental Performance Protect the environment, choose vehicles with higher scores : Global Warming Score Smog Score 		FOR THIS VEHICLE Final Assembly Point: SAYAMA, SAITAMA JAPAN Country of Origin: Engine: JAPAN Transmission: JAPAN																			
Environmental Performance Protect the environment, choose vehicles with higher scores : Global Warming Score Smog Score 		GOVERNMENT SAFETY RATINGS <table border="1"> <tr> <td>Frontal Crash</td> <td>Driver Passenger</td> <td>To Be Rated</td> </tr> <tr> <td colspan="3">Star ratings based on the risk of injury in a frontal impact.</td> </tr> <tr> <td>Side Crash</td> <td>Front seat Rear seat</td> <td>To Be Rated</td> </tr> <tr> <td colspan="3">Star ratings based on the risk of injury in a side impact.</td> </tr> <tr> <td>Rollover</td> <td></td> <td>To Be Rated</td> </tr> <tr> <td colspan="3">Star ratings based on the risk of rollover in a single vehicle crash.</td> </tr> </table>		Frontal Crash	Driver Passenger	To Be Rated	Star ratings based on the risk of injury in a frontal impact.			Side Crash	Front seat Rear seat	To Be Rated	Star ratings based on the risk of injury in a side impact.			Rollover		To Be Rated	Star ratings based on the risk of rollover in a single vehicle crash.		
Frontal Crash	Driver Passenger	To Be Rated																			
Star ratings based on the risk of injury in a frontal impact.																					
Side Crash	Front seat Rear seat	To Be Rated																			
Star ratings based on the risk of injury in a side impact.																					
Rollover		To Be Rated																			
Star ratings based on the risk of rollover in a single vehicle crash.																					
Environmental Performance Protect the environment, choose vehicles with higher scores : Global Warming Score Smog Score 		GOVERNMENT SAFETY RATINGS <table border="1"> <tr> <td>Frontal Crash</td> <td>Driver Passenger</td> <td>To Be Rated</td> </tr> <tr> <td colspan="3">Star ratings based on the risk of injury in a frontal impact.</td> </tr> <tr> <td>Side Crash</td> <td>Front seat Rear seat</td> <td>To Be Rated</td> </tr> <tr> <td colspan="3">Star ratings based on the risk of injury in a side impact.</td> </tr> <tr> <td>Rollover</td> <td></td> <td>To Be Rated</td> </tr> <tr> <td colspan="3">Star ratings based on the risk of rollover in a single vehicle crash.</td> </tr> </table>		Frontal Crash	Driver Passenger	To Be Rated	Star ratings based on the risk of injury in a frontal impact.			Side Crash	Front seat Rear seat	To Be Rated	Star ratings based on the risk of injury in a side impact.			Rollover		To Be Rated	Star ratings based on the risk of rollover in a single vehicle crash.		
Frontal Crash	Driver Passenger	To Be Rated																			
Star ratings based on the risk of injury in a frontal impact.																					
Side Crash	Front seat Rear seat	To Be Rated																			
Star ratings based on the risk of injury in a side impact.																					
Rollover		To Be Rated																			
Star ratings based on the risk of rollover in a single vehicle crash.																					

MC 5304

Figure A-100: Monroney Label

►► Adjusting the Seats ► Adjusting the Seat Positions

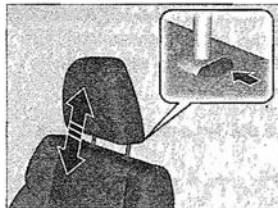
■ Adjusting the Head Restraints



Your vehicle is equipped with head restraints in all seating positions.

Head restraints are most effective for protection against whiplash and other rear-impact crash injuries when the center of the back of the occupant's head rests against the center of the restraint. The tops of the occupant's ears should be level with the center height of the restraint.

■ Adjusting the front head restraint positions



To raise the head restraint: Pull it upward.
To lower the head restraint: Push it down while pressing the release button.

■ Adjusting the Head Restraints

⚠ WARNING

Improperly positioning head restraints reduces their effectiveness and increases the likelihood of serious injury in a crash.

Make sure head restraints are in place and positioned properly before driving.

For a head restraint system to work properly:

- Do not hang any items on the head restraints, or from the restraint legs.
- Do not place any object between an occupant and the seat-back.
- Install each restraint in its proper location.

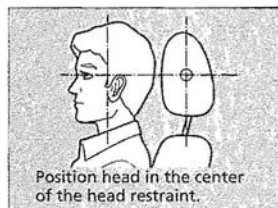
Controls

MC 5304

Figure A-101: Driver Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

►► Adjusting the Seats ► Adjusting the Seat Positions

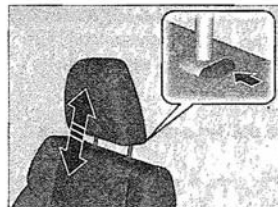
■ Adjusting the Head Restraints



Your vehicle is equipped with head restraints in all seating positions.

Head restraints are most effective for protection against whiplash and other rear-impact crash injuries when the center of the back of the occupant's head rests against the center of the restraint. The tops of the occupant's ears should be level with the center height of the restraint.

■ Adjusting the front head restraint positions



To raise the head restraint: Pull it upward.
To lower the head restraint: Push it down while pressing the release button.

■ Adjusting the Head Restraints

⚠ WARNING

Improperly positioning head restraints reduces their effectiveness and increases the likelihood of serious injury in a crash.

Make sure head restraints are in place and positioned properly before driving.

For a head restraint system to work properly:

- Do not hang any items on the head restraints, or from the restraint legs.
- Do not place any object between an occupant and the seat-back.
- Install each restraint in its proper location.

Controls

MC 5304

Figure A-102: Left Rear Passenger Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

Test Vehicle: 2012 Honda CR-V 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

APPENDIX B
DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS

The following plots are provided in the test report

Data Plot	Description	Page
1	Driver Head Acceleration (X) Primary vs. Time	B-4
2	Driver Head Acceleration (Y) Primary vs. Time	B-5
3	Driver Head Acceleration (Z) Primary vs. Time	B-6
4	Driver Head Resultant Acceleration Primary vs. Time	B-7
5	Driver Upper Thorax Rib Deflection (Y) vs. Time	B-8
6	Driver Middle Thorax Rib Deflection (Y) vs. Time	B-9
7	Driver Lower Thorax Rib Deflection (Y) vs. Time	B-10
8	Driver Thorax Rib Deflection Maximum vs. Time	B-11
9	Driver Anterior Abdominal Force (Y) vs. Time	B-12
10	Driver Middle Abdominal Force (Y) vs. Time	B-13
11	Driver Posterior Abdominal Force (Y) vs. Time	B-14
12	Driver Total Abdominal Force (Y) vs. Time	B-15
13	Driver Pubic Symphysis Force (Y) vs. Time	B-16
14	Passenger Head Acceleration (X) Primary vs. Time	B-17
15	Passenger Head Acceleration (Y) Primary vs. Time	B-18
16	Passenger Head Acceleration (Z) Primary vs. Time	B-19
17	Passenger Head Resultant Acceleration Primary vs. Time	B-20
18	Passenger Lower Spine T ₁₂ Acceleration (X) vs. Time	B-21
19	Passenger Lower Spine T ₁₂ Acceleration (Y) vs. Time	B-22
20	Passenger Lower Spine T ₁₂ Acceleration (Z) vs. Time	B-23
21	Passenger Lower Spine T ₁₂ Resultant Acceleration vs. Time	B-24
22	Passenger Iliac Force on Impact Side (Y) vs. Time	B-25
23	Passenger Acetabulum Force on Impact Side (Y) vs. Time	B-26
24	Passenger Total Pelvic Force on Impact Side (Y) vs. Time	B-27

The following additional data for this test can be obtained from the Research and Development section of the NHTSA website. The website can be found at www.NHTSA.dot.gov.

Additional Driver & Passenger Dummy Instrumentation Data

Driver Lower Spine T₁₂ Acceleration (X)
Driver Lower Spine T₁₂ Acceleration (Y)
Driver Lower Spine T₁₂ Acceleration (Z)
Passenger Upper Thorax Rib Deflection (Y)
Passenger Middle Thorax Rib Deflection (Y)
Passenger Lower Thorax Rib Deflection (Y)
Passenger Upper Abdomen Rib Deflection (Y)
Passenger Lower Abdomen Rib Deflection (Y)
Driver Head Acceleration Redundant (X)
Driver Head Acceleration Redundant (Y)
Driver Head Acceleration Redundant (Z)
Passenger Head Acceleration Redundant (X)
Passenger Head Acceleration Redundant (Y)
Passenger Head Acceleration Redundant (Z)

Vehicle Instrumentation Data

Vehicle Center of Gravity Acceleration (X)
Vehicle Center of Gravity Acceleration (Y)
Vehicle Center of Gravity Acceleration (Z)
Right Side Sill at Front Seat Acceleration (X)
Right Side Sill at Front Seat Acceleration (Y)
Right Side Sill at Front Seat Acceleration (Z)
Right Side Sill at Rear Seat Acceleration (X)
Right Side Sill at Rear Seat Acceleration (Y)
Right Side Sill at Rear Seat Acceleration (Z)
Left Side Sill at Front Seat Acceleration (Y)
Left Side Sill at Rear Seat Acceleration (Y)
Lower A-Post Acceleration (Y)
Middle A-Post Acceleration (Y)
Lower B-Post Acceleration (Y)
Middle B-Post Acceleration (Y)
Front Seat Track Acceleration (Y)
Rear Seat Structure Acceleration (Y)
Right Rear Occupant Compartment Acceleration (Y)
Engine Block (X)
Engine Block (Y)
Rear Floorpan Above Axle Acceleration (X)
Rear Floorpan Above Axle Acceleration (Y)
Rear Floorpan Above Axle Acceleration (Z)

MDB Instrumentation Data

MDB Center of Gravity Acceleration (X)
MDB Center of Gravity Acceleration (Y)
MDB Center of Gravity Acceleration (Z)
MDB Rear Acceleration (X)
MDB Rear Acceleration (Y)
Left MDB Contact Switch
Right MDB Contact Switch

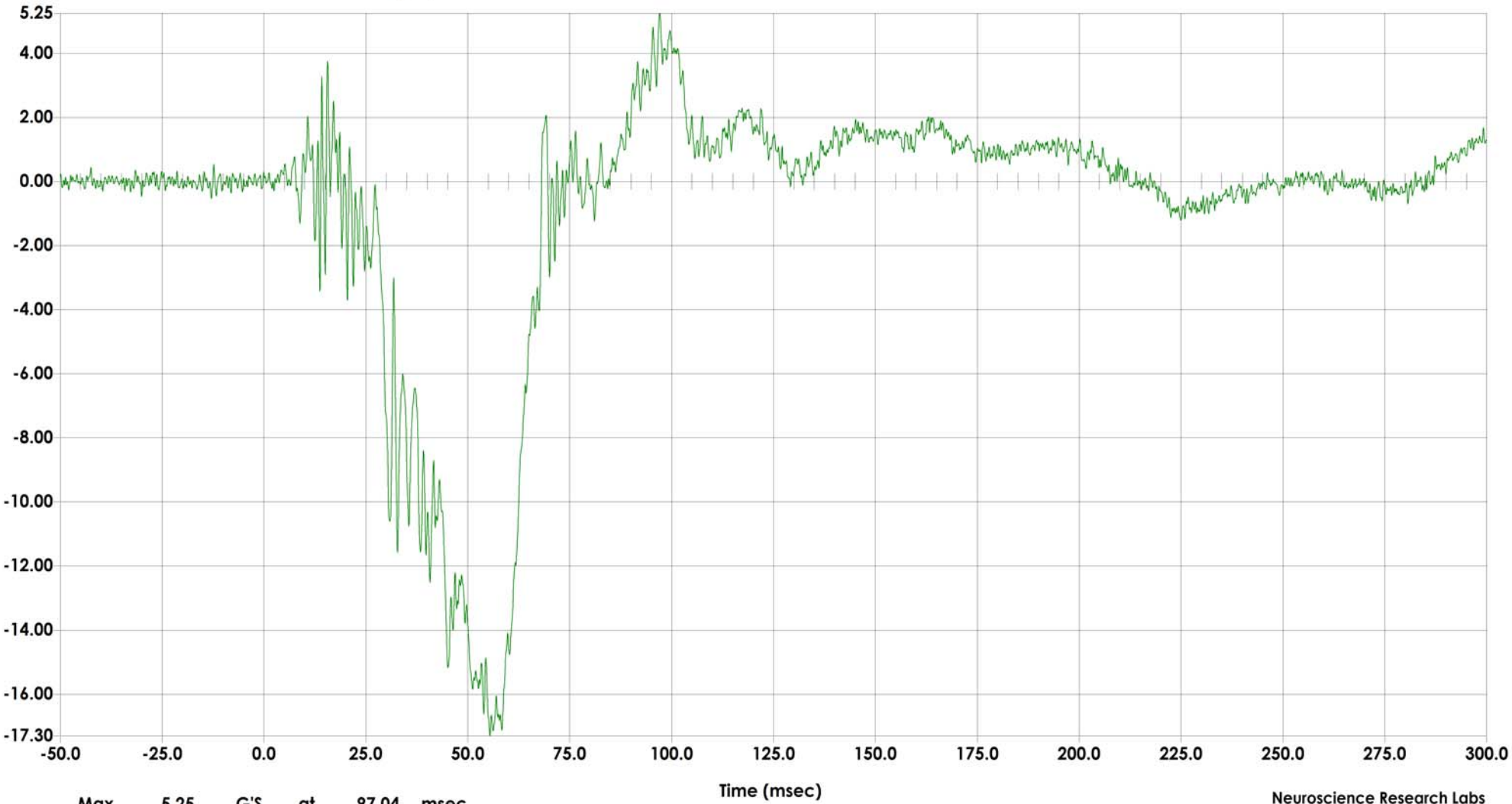
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Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location HDCG
Sensor Info ENDEVCO 7264-2000TZ
Serial Number J43494



G's Driver Head Acceleration (X) Primary vs. Time



Max 5.25 G's at 97.04 msec
Min -17.30 G's at 55.44 msec

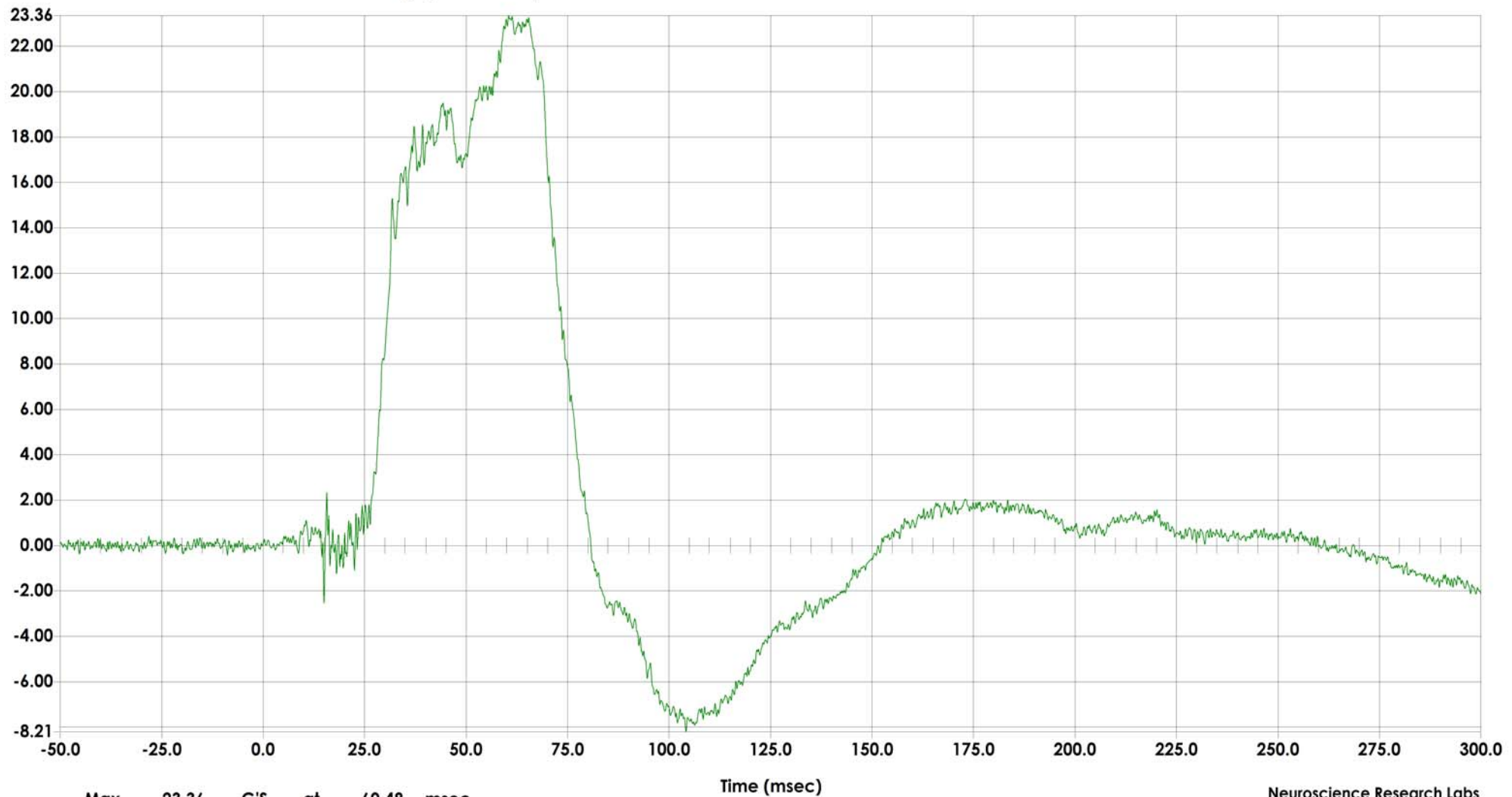
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location HDCG
Sensor Info ENDEVCO 7264-2000TZ
Serial Number J43475



G'S Driver Head Acceleration (Y) Primary vs. Time



Max 23.36 G'S at 60.48 msec
Min -8.21 G'S at 104.16 msec

MC 5304 Plot 002

Neuroscience Research Labs
5000 West National Ave
Research 151
Milwaukee, WI 53295

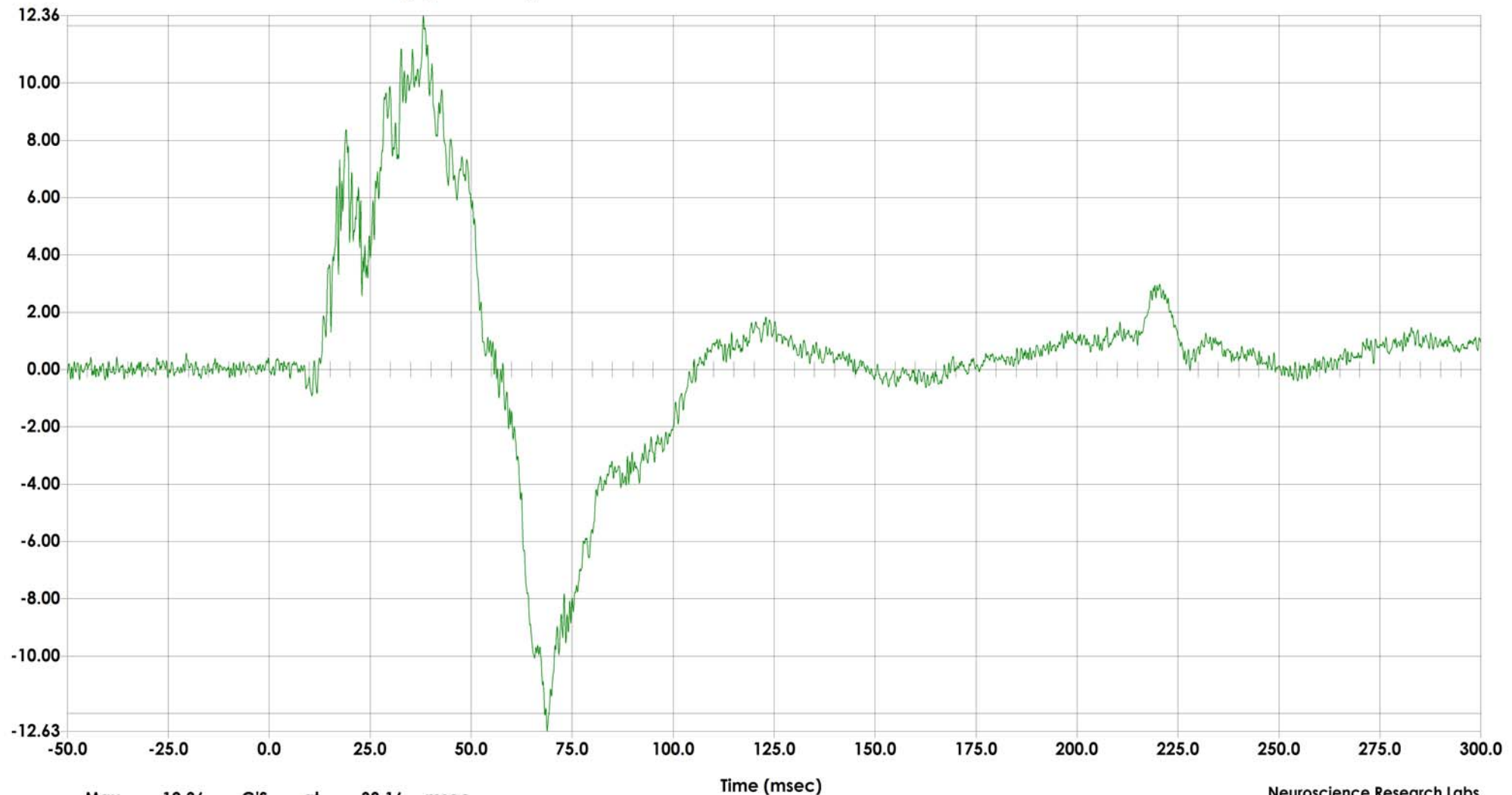
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location HDCG
Sensor Info ENDEVCO 7264-2000
Serial Number J43779



G'S Driver Head Acceleration (Z) Primary vs. Time



Max 12.36 G'S at 38.16 msec
Min -12.63 G'S at 68.80 msec

MC 5304 Plot 003

Neuroscience Research Labs
5000 West National Ave
Research 151
Milwaukee, WI 53295

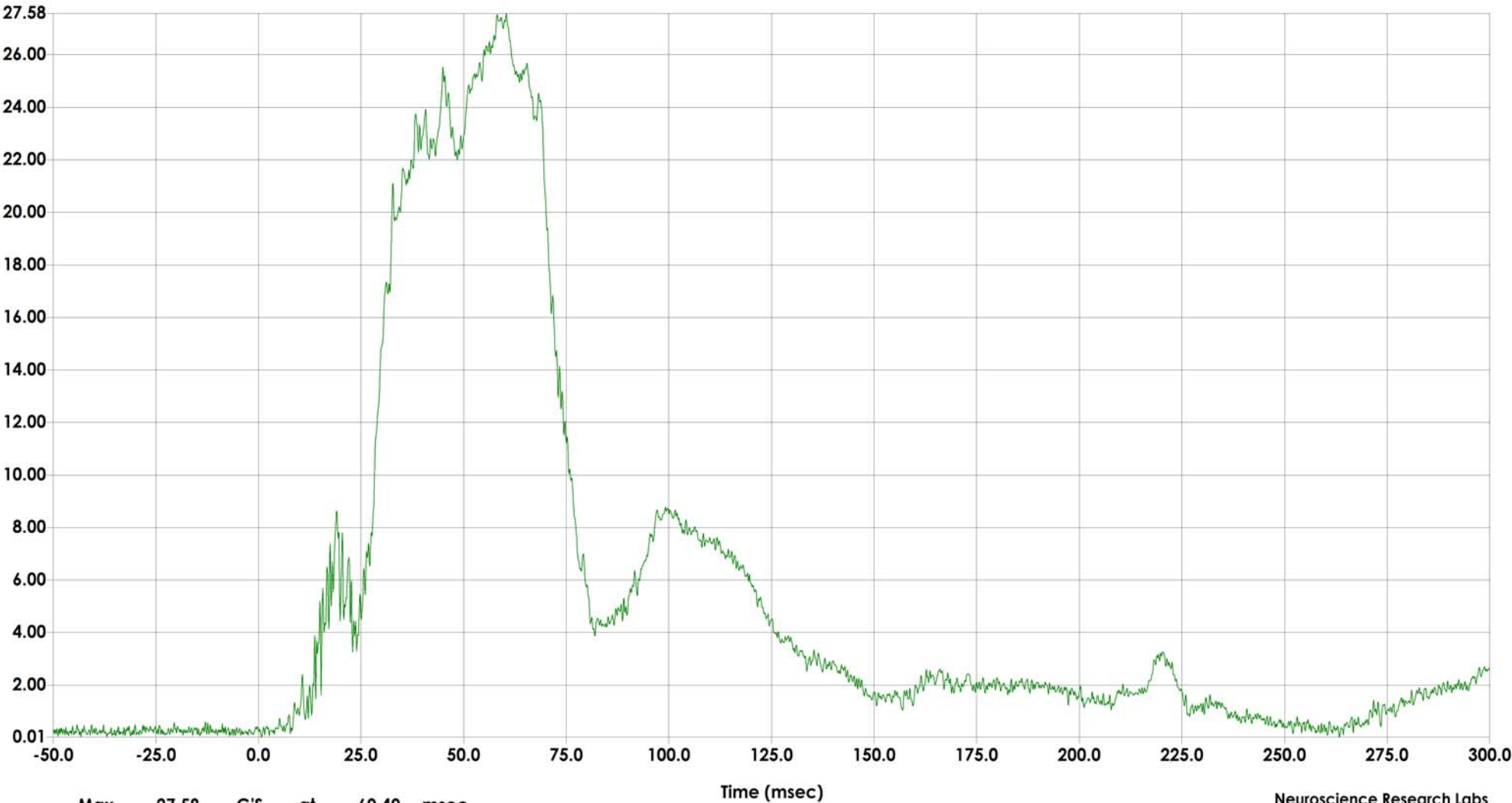
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location
Sensor Info MCW Multiviewer
Serial Number 3.5.2j



G'S Driver Head Resultant Acceleration Primary vs. Time



Max 27.58 G'S at 60.40 msec
Min 0.01 G'S at 0.72 msec

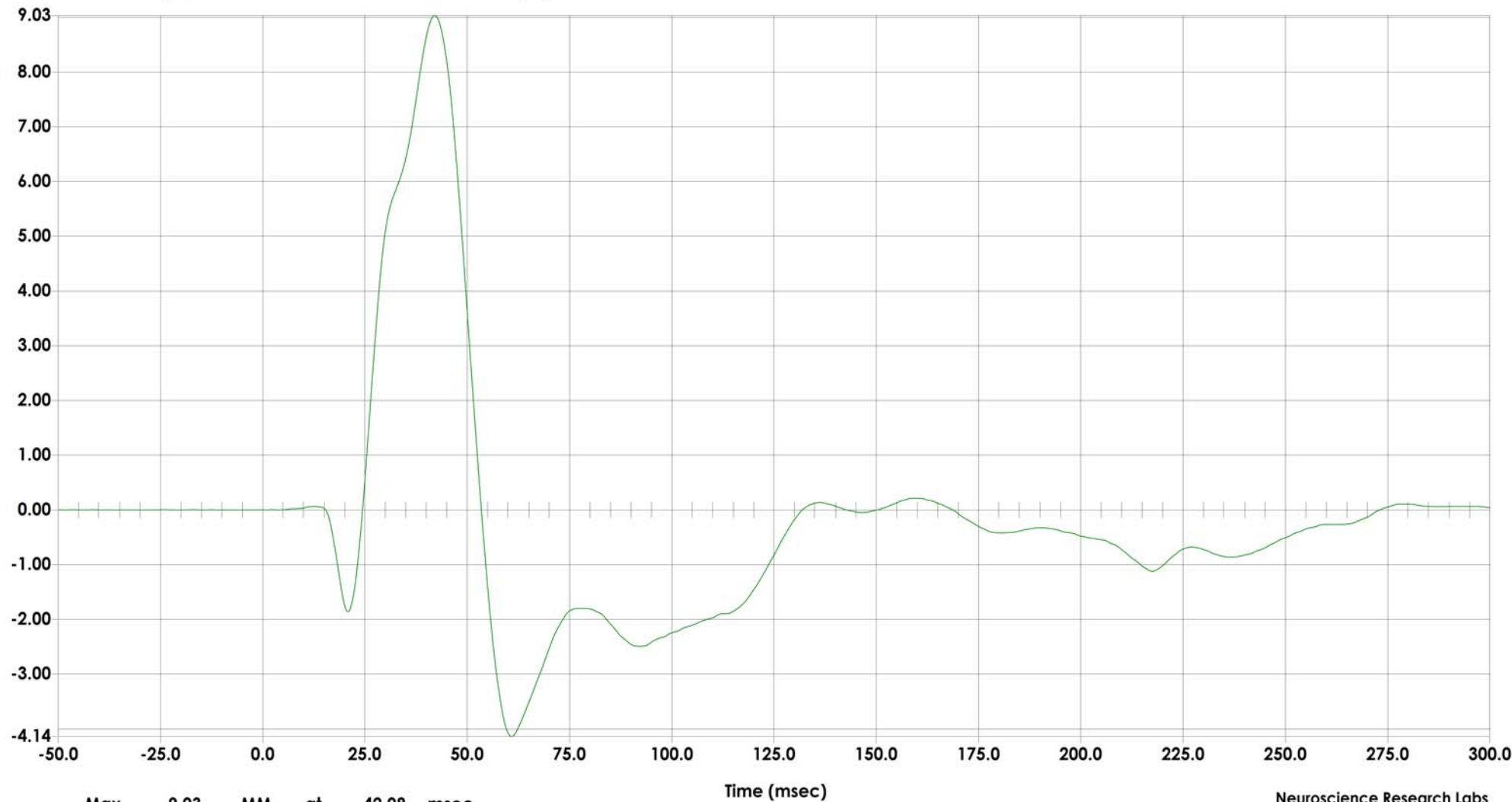
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location RBLU
Sensor Info Denton
Serial Number 433



MM Driver Upper Thorax Rib Deflection (Y) vs. Time



Max 9.03 MM at 42.08 msec
Min -4.14 MM at 60.88 msec

MC 5304 Plot 007

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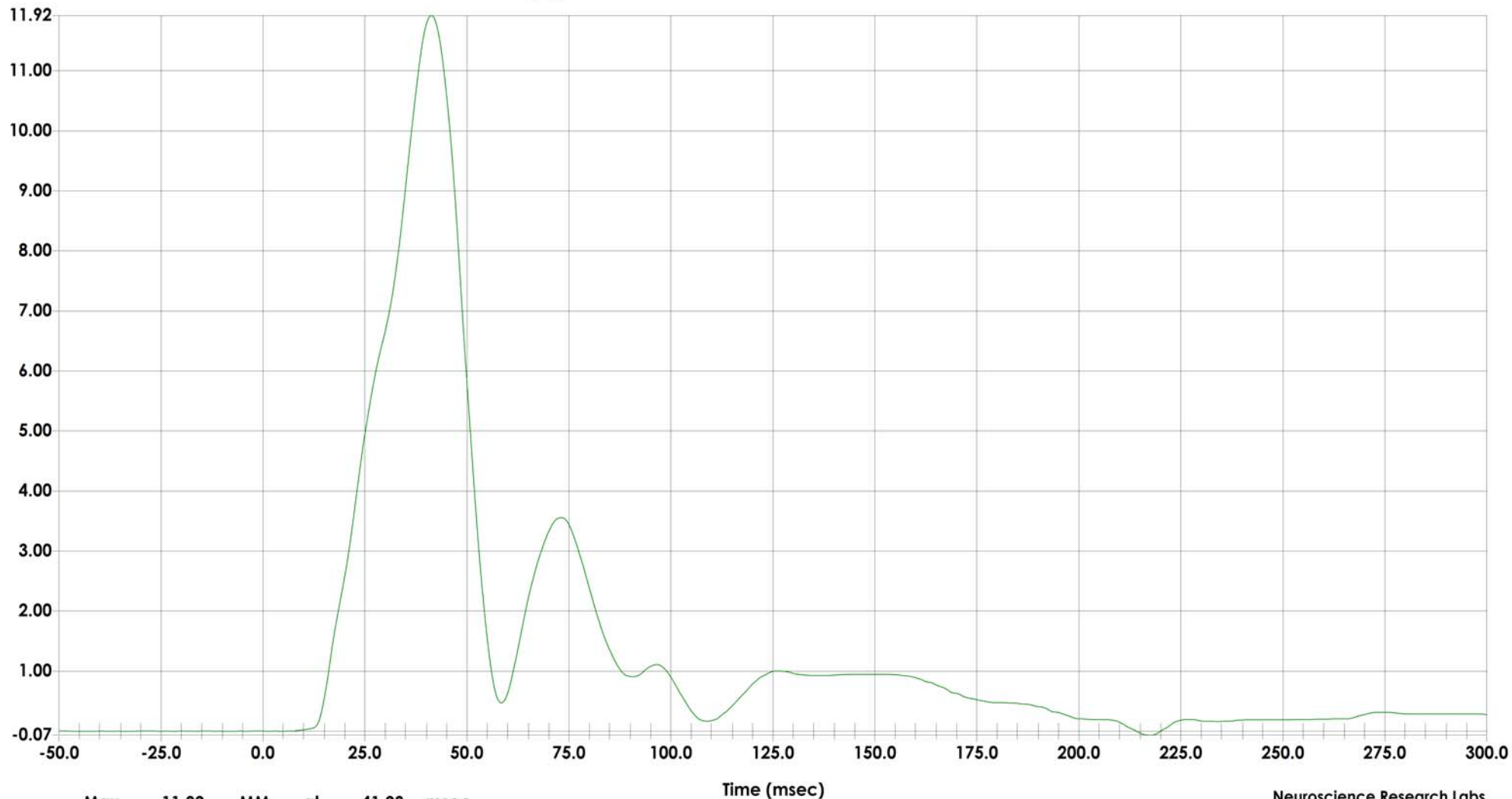
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location RBLM
Sensor Info Denton
Serial Number 193



MM Driver Middle Thorax Rib Deflection (Y) vs. Time



Max 11.92 MM at 41.28 msec
Min -0.07 MM at 217.52 msec

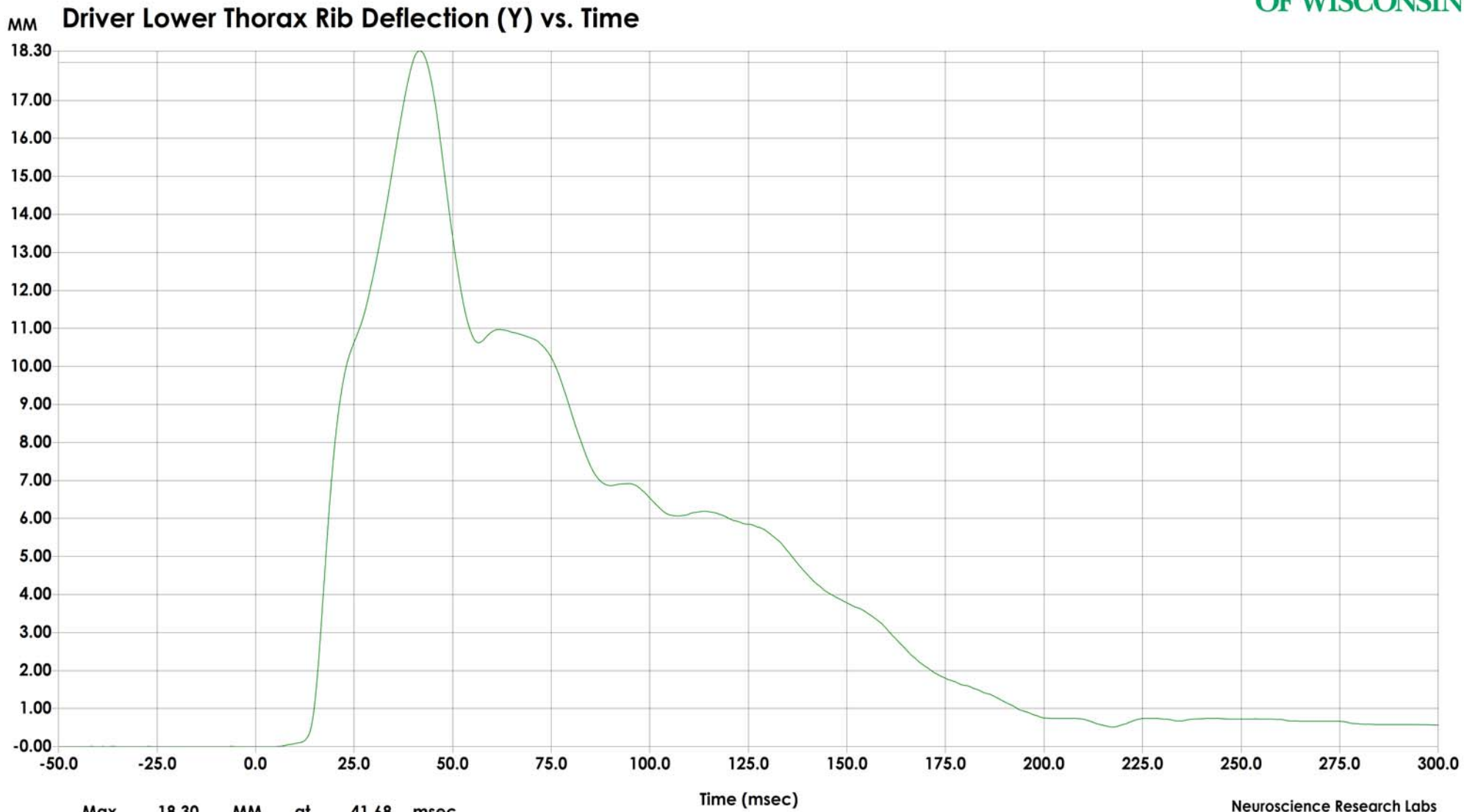
MC 5304 Plot 008

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Research 151
Milwaukee, WI 53295

Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location RBLL
Sensor Info Denton
Serial Number 191



Max 18.30 MM at 41.68 msec
Min -0.00 MM at -32.00 msec

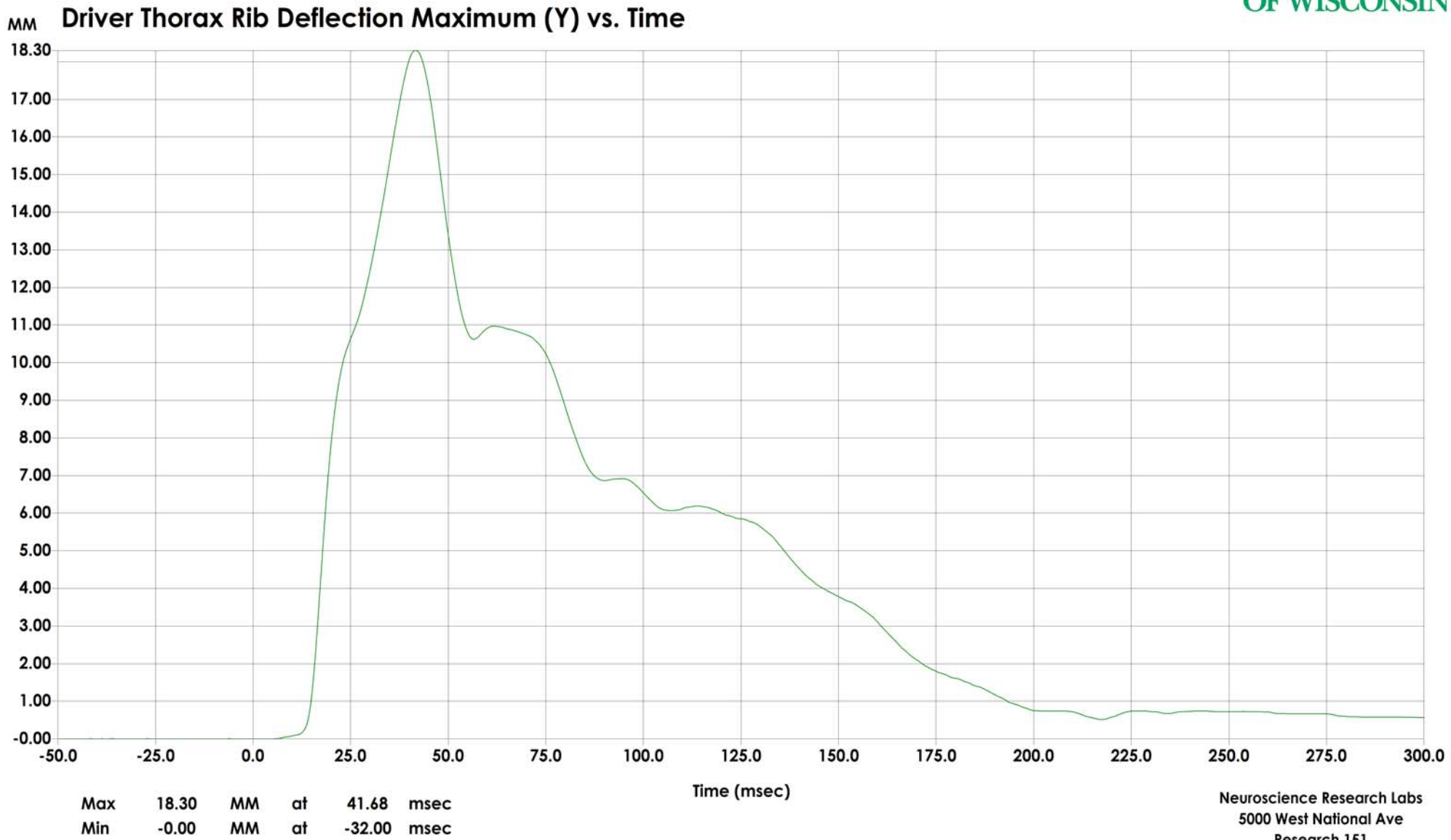
MC 5304 Plot 009

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Milwaukee, WI 53295

Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location RBLL
Sensor Info Denton
Serial Number 191



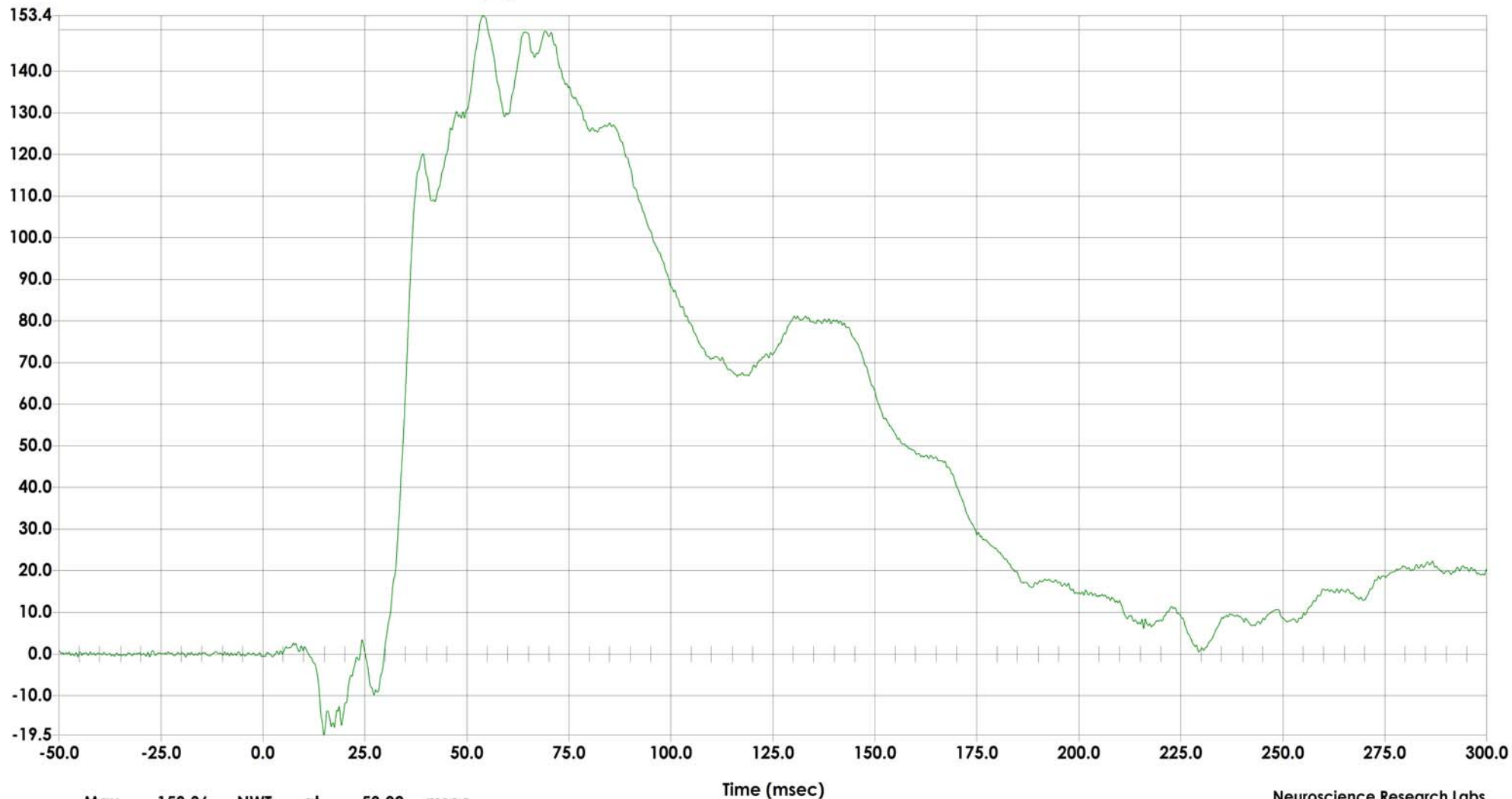
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location ESAF
Sensor Info Denton 2631
Serial Number 2631_1502



NWT Driver Abdomen Forward Force (Y) vs. Time



Max 153.36 NWT at 53.92 msec
Min -19.49 NWT at 14.96 msec

MC 5304 Plot 010

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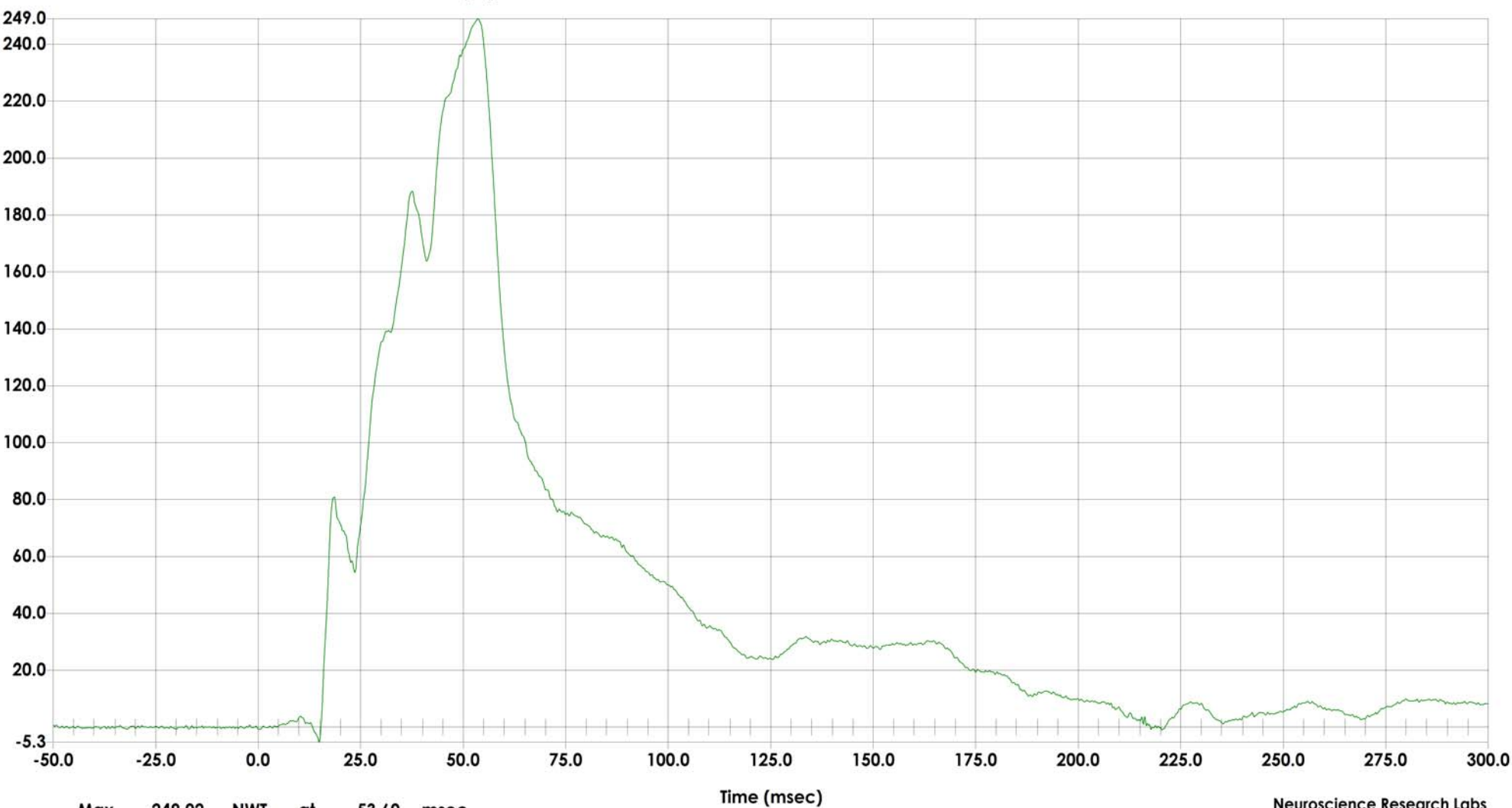
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location ESAM
Sensor Info Denton 2631
Serial Number 2631_1511



NWT Driver Abdomen Middle Force (Y) vs. Time



Max 249.02 NWT at 53.60 msec
Min -5.29 NWT at 14.88 msec

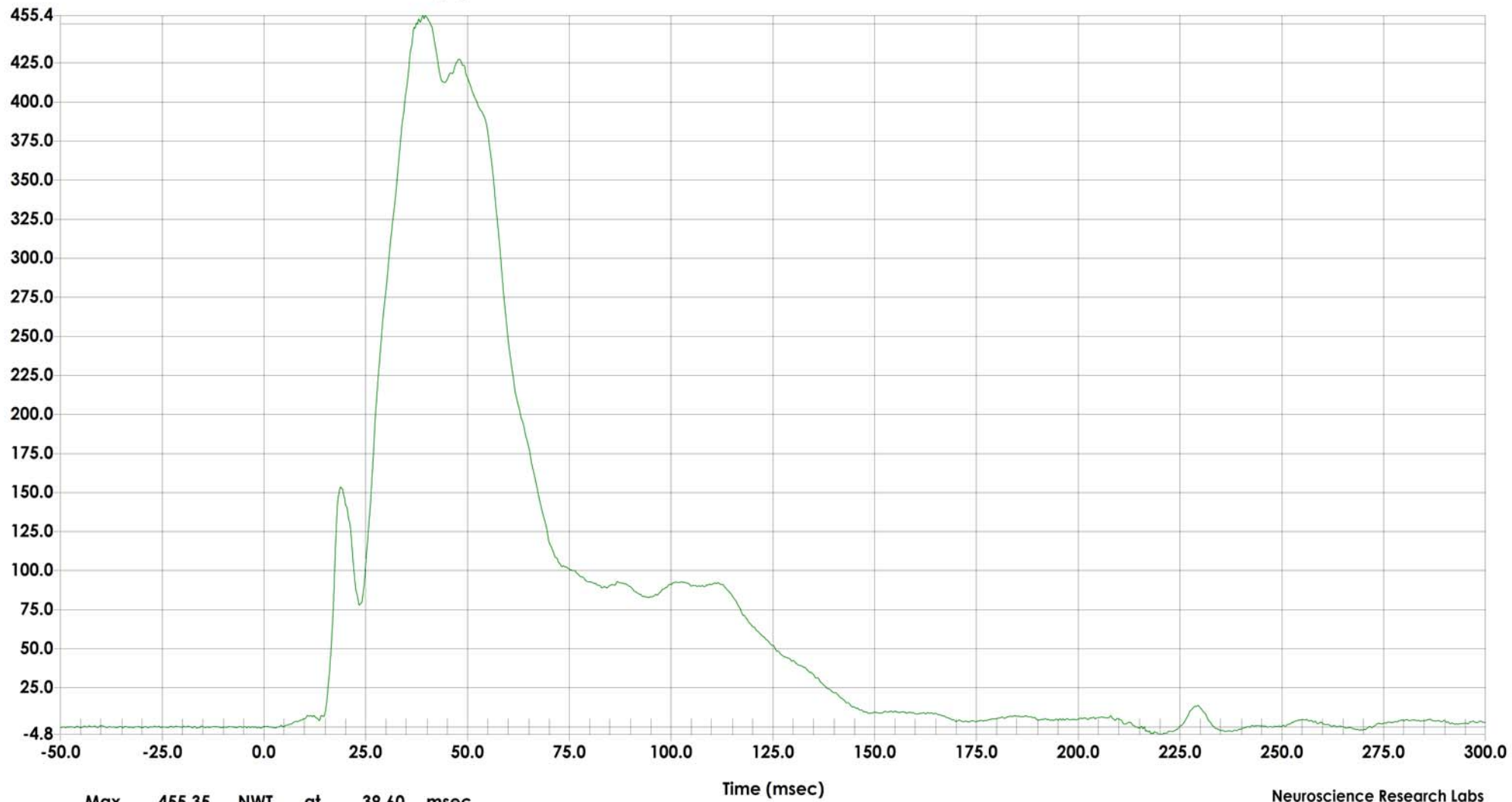
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location ESAR
Sensor Info Denton 2631
Serial Number 2631_1537



NWT Driver Abdomen Rear Force (Y) vs. Time



Max 455.35 NWT at 39.60 msec
Min -4.81 NWT at 219.76 msec

MC 5304 Plot 012

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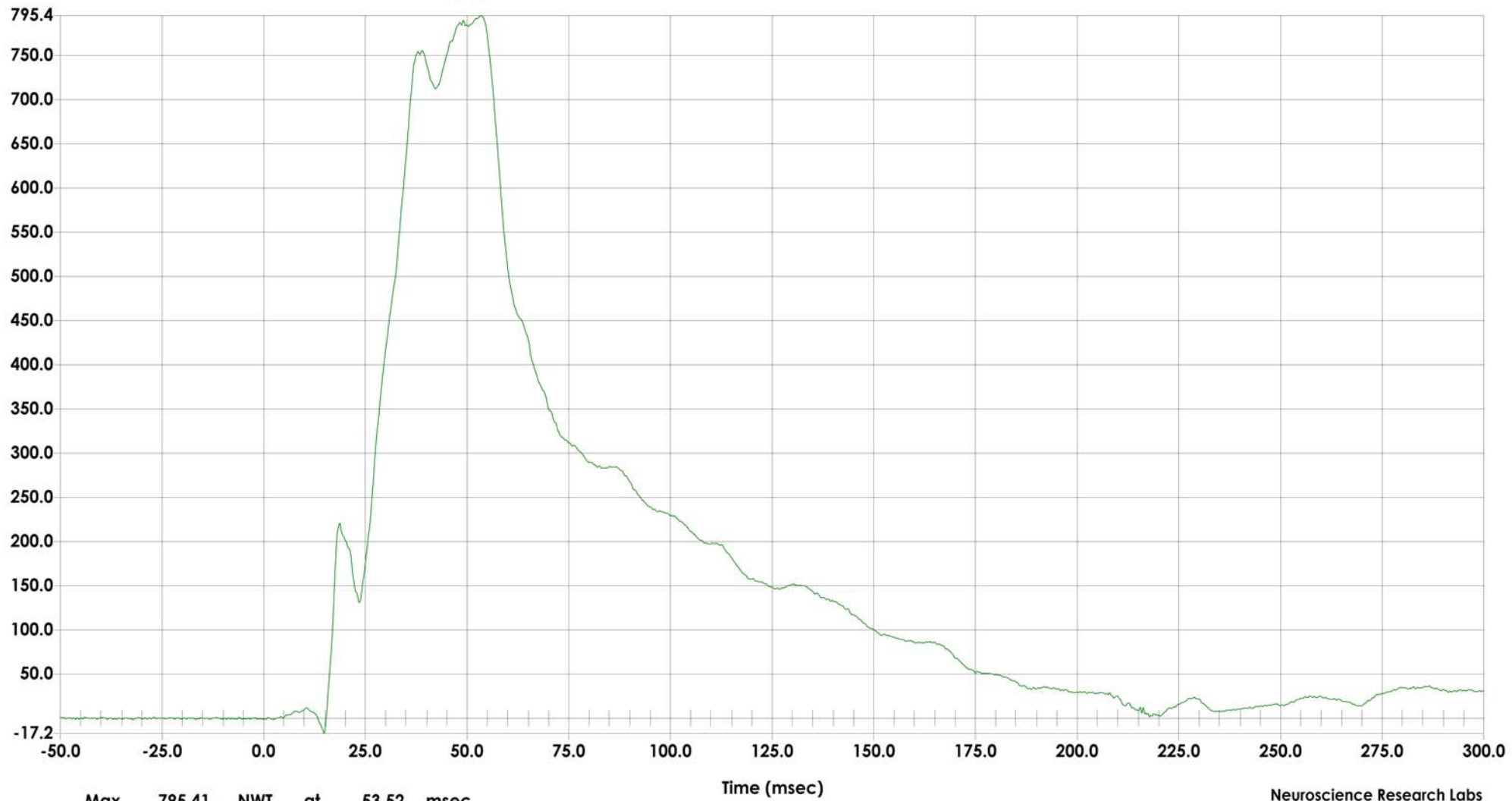
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location
Sensor Info MCW Multiviewer
Serial Number 3.5.2j



NWT Driver Total Abdominal Force (Y) vs. Time



Max 795.41 NWT at 53.52 msec
Min -17.19 NWT at 14.88 msec

MC 5304 Plot 057

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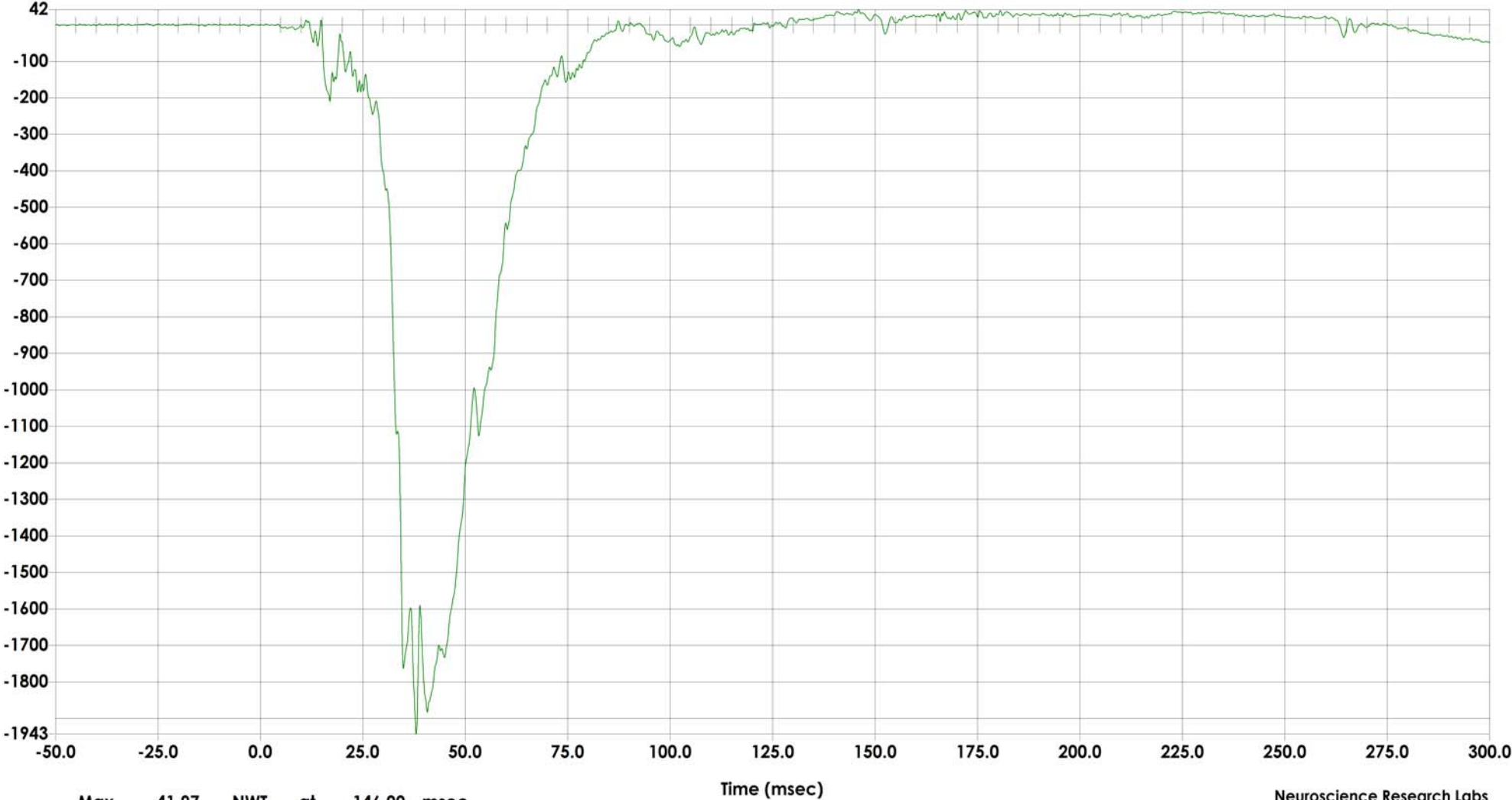
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location PVPS
Sensor Info Denton 3096JFL
Serial Number 3096_460



NWT Driver Pubic Symphysis Force (Y) vs. Time



Max 41.97 NWT at 146.00 msec
Min -1942.84 NWT at 38.00 msec

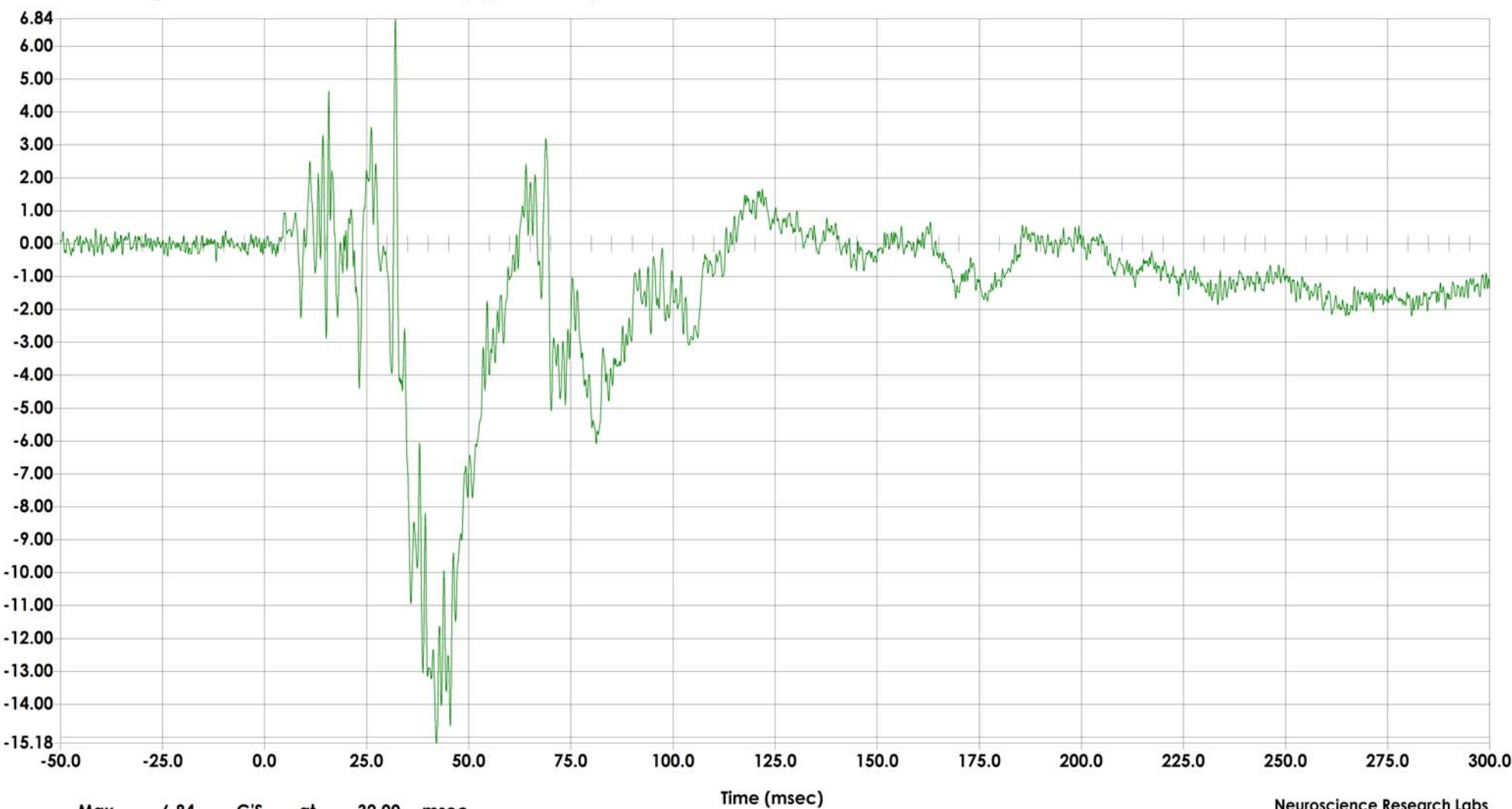
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location HDCG
Sensor Info ENDEVCO 7264C-2KTZ-2-240
Serial Number P22041



G'S Passenger Head Acceleration (X) Primary vs. Time



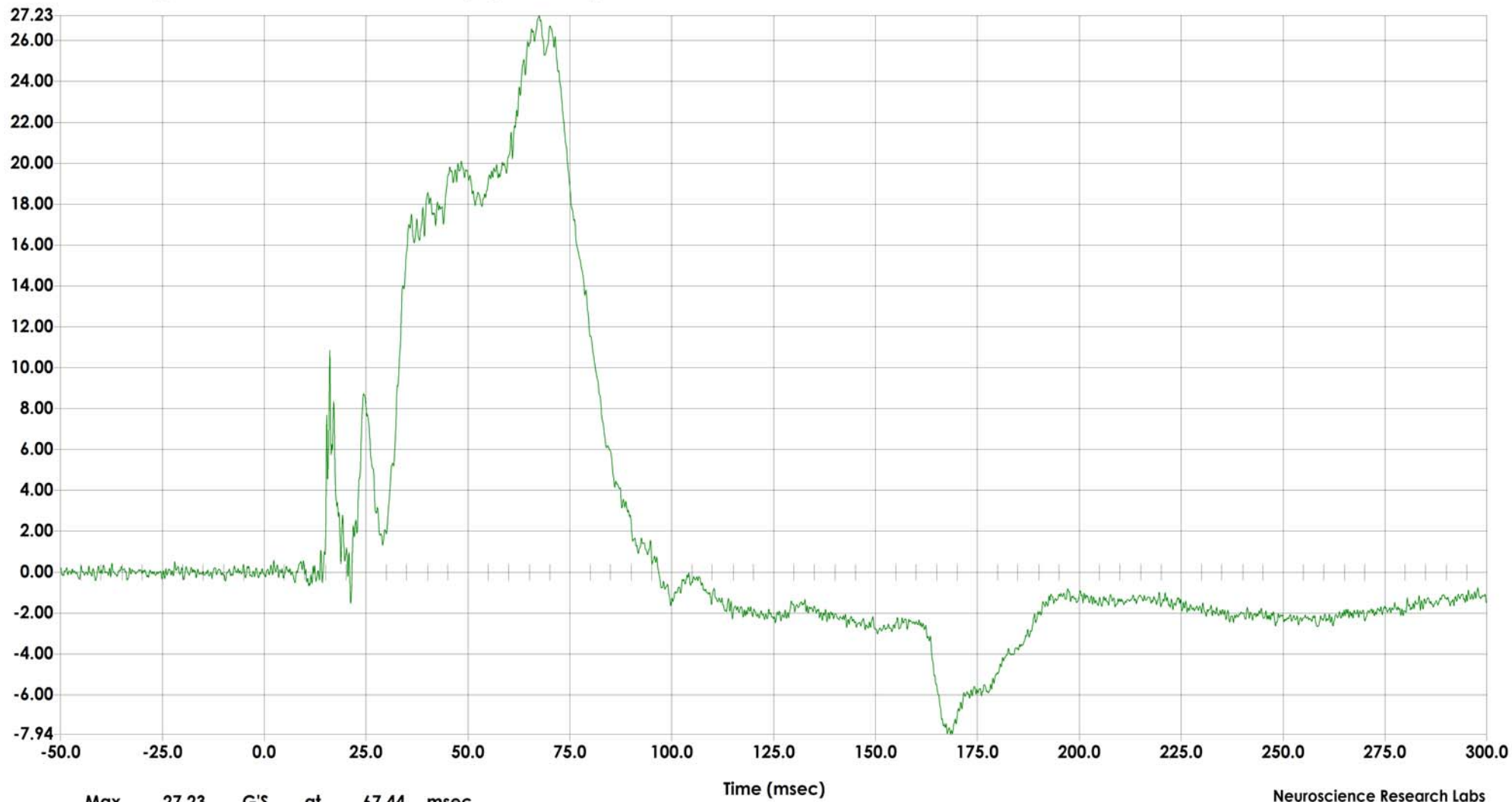
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location HDCG
Sensor Info ENDEVCO 7264C-2KTZ-2-240
Serial Number P24562



G'S Passenger Head Acceleration (Y) Primary vs. Time



Max 27.23 G'S at 67.44 msec
Min -7.94 G'S at 168.40 msec

MC 5304 Plot 018

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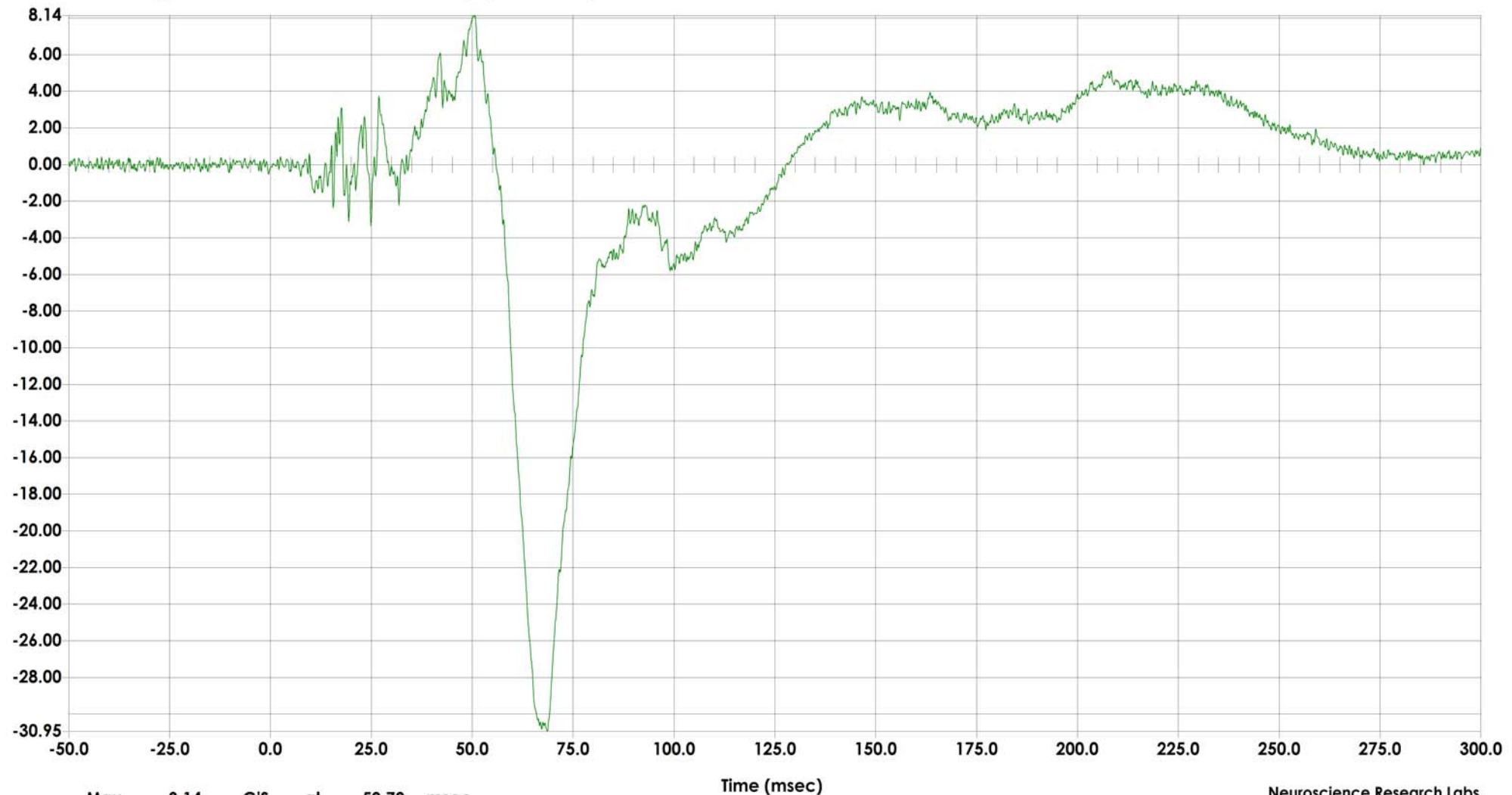
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location HDCG
Sensor Info ENDEVCO 7264C-2KTZ-2-300
Serial Number P22322



G'S Passenger Head Acceleration (Z) Primary vs. Time



Max 8.14 G'S at 50.72 msec
Min -30.95 G'S at 68.64 msec

MC 5304 Plot 019

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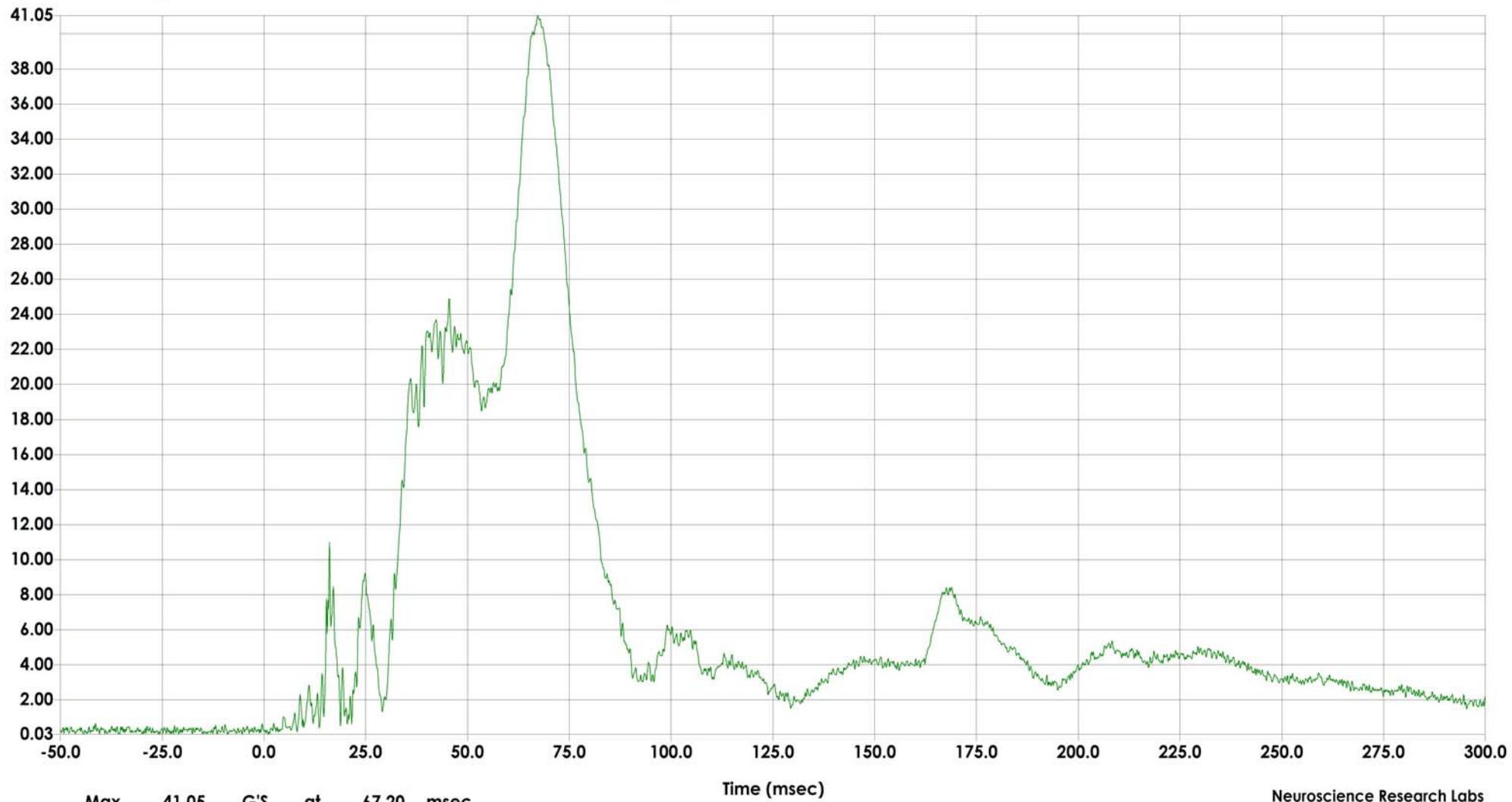
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC1000
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location
Sensor Info MCW Multiviewer
Serial Number 3.5.2j



G'S Passenger Head Resultant Acceleration Primary vs. Time



Max 41.05 G'S at 67.20 msec
Min 0.03 G'S at -5.36 msec

MC 5304 Plot 060

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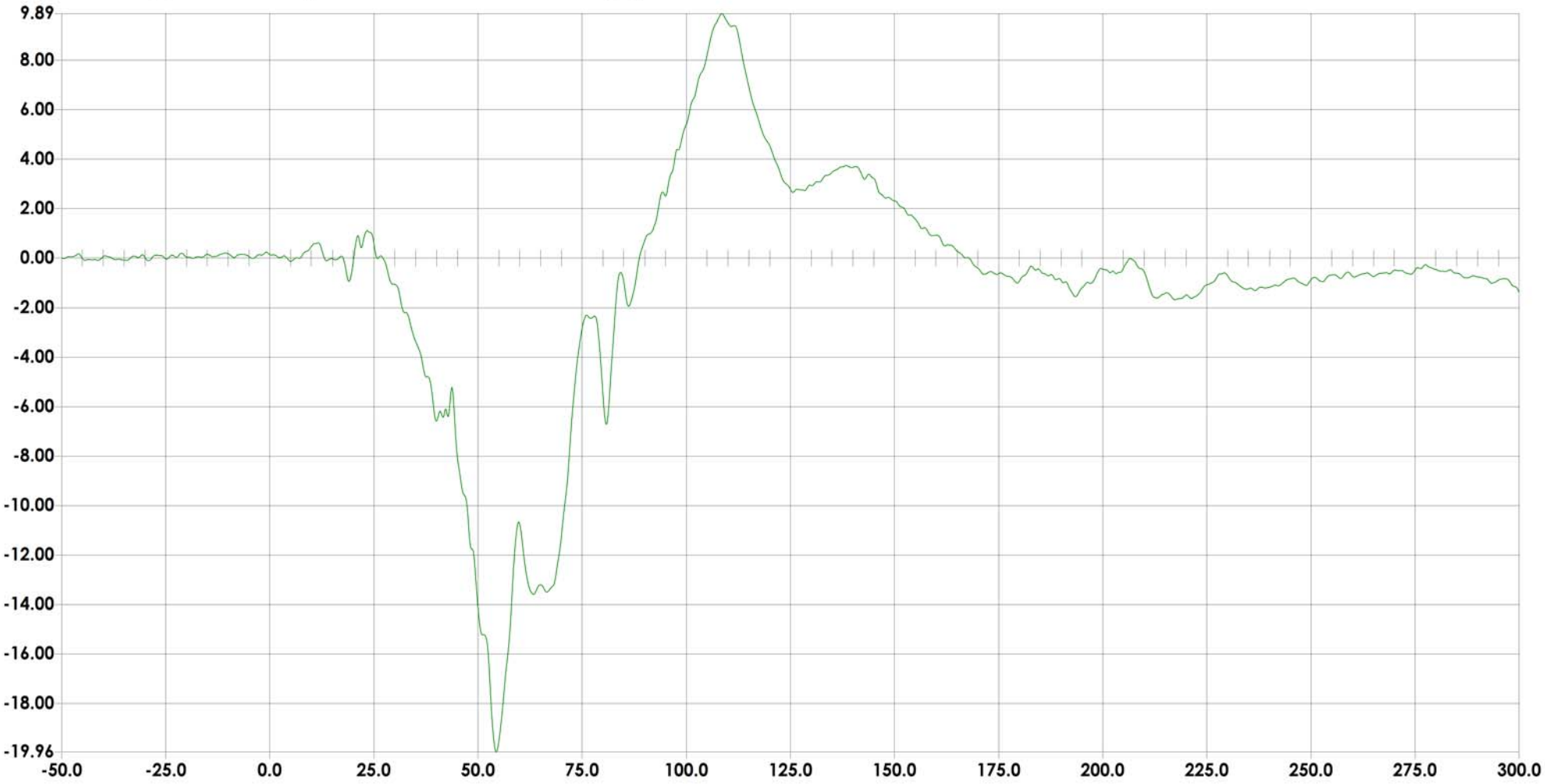
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location SPNL
Sensor Info ENDEVCO 7264C-2KTZ-2-240
Serial Number P21661



G'S Passenger Lower Spine T12 Acceleration (X) vs. Time



Max 9.89 G'S at 108.48 msec
Min -19.96 G'S at 54.40 msec

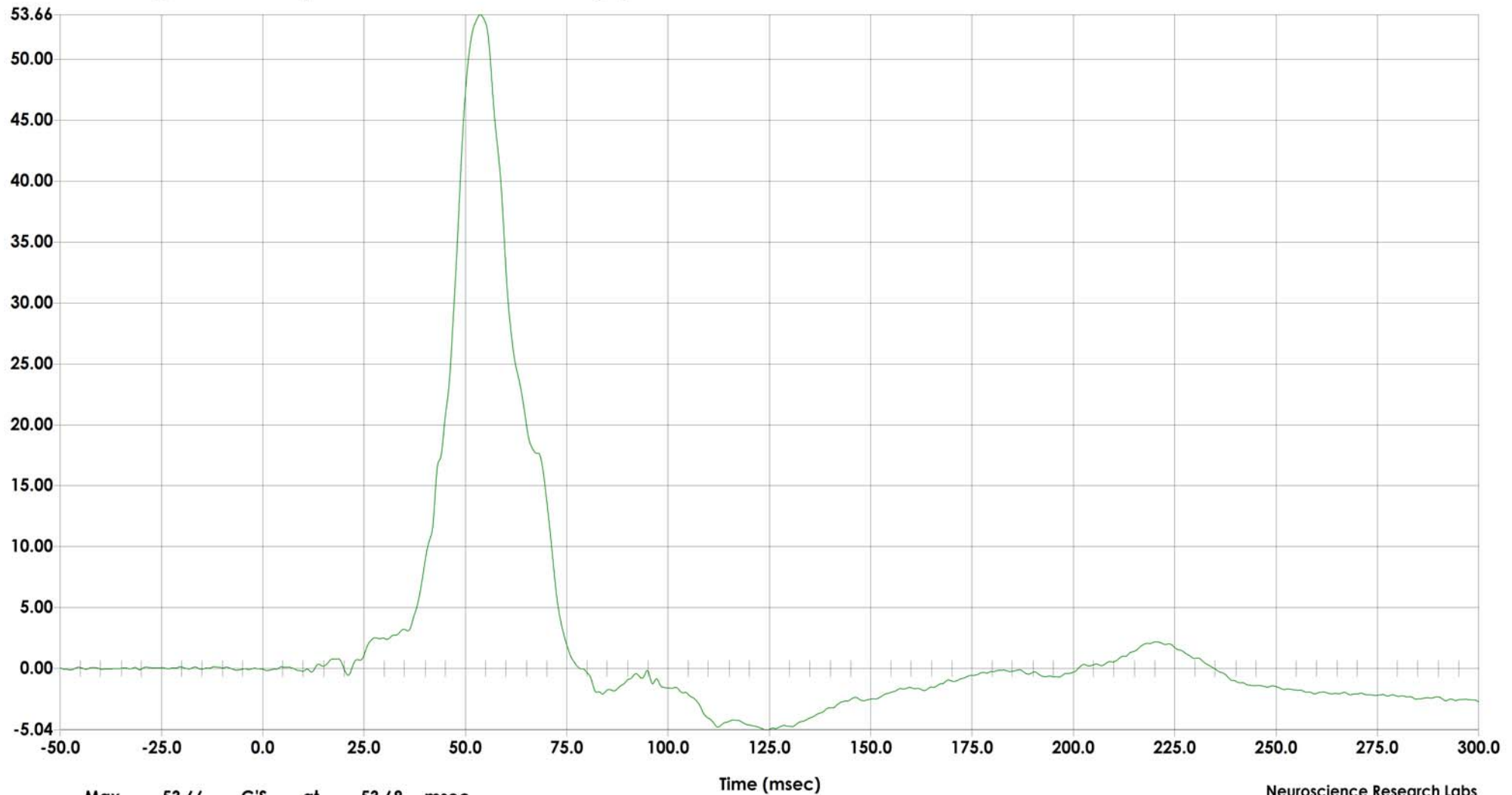
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location SPNL
Sensor Info ENDEVCO 7264C-2KTZ-2-240
Serial Number P24682



G'S Passenger Lower Spine T12 Acceleration (Y) vs. Time



Max 53.66 G'S at 53.68 msec
Min -5.04 G'S at 124.40 msec

MC 5304 Plot 029

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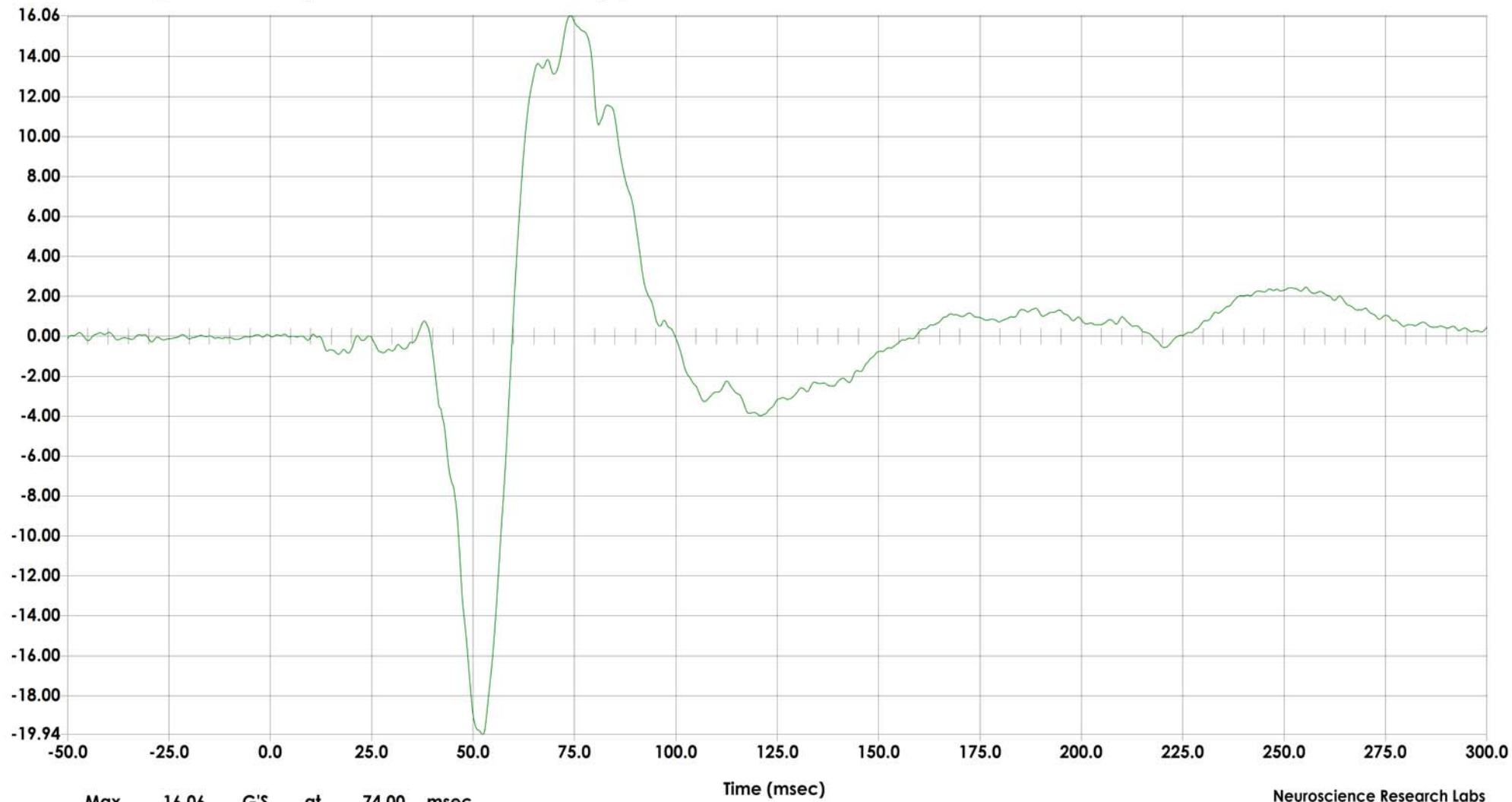
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location SPNL
Sensor Info ENDEVCO 7264C-2KTZ-2-240
Serial Number P21788



G'S Passenger Lower Spine T12 Acceleration (Z) vs. Time



Max 16.06 G'S at 74.00 msec
Min -19.94 G'S at 52.40 msec

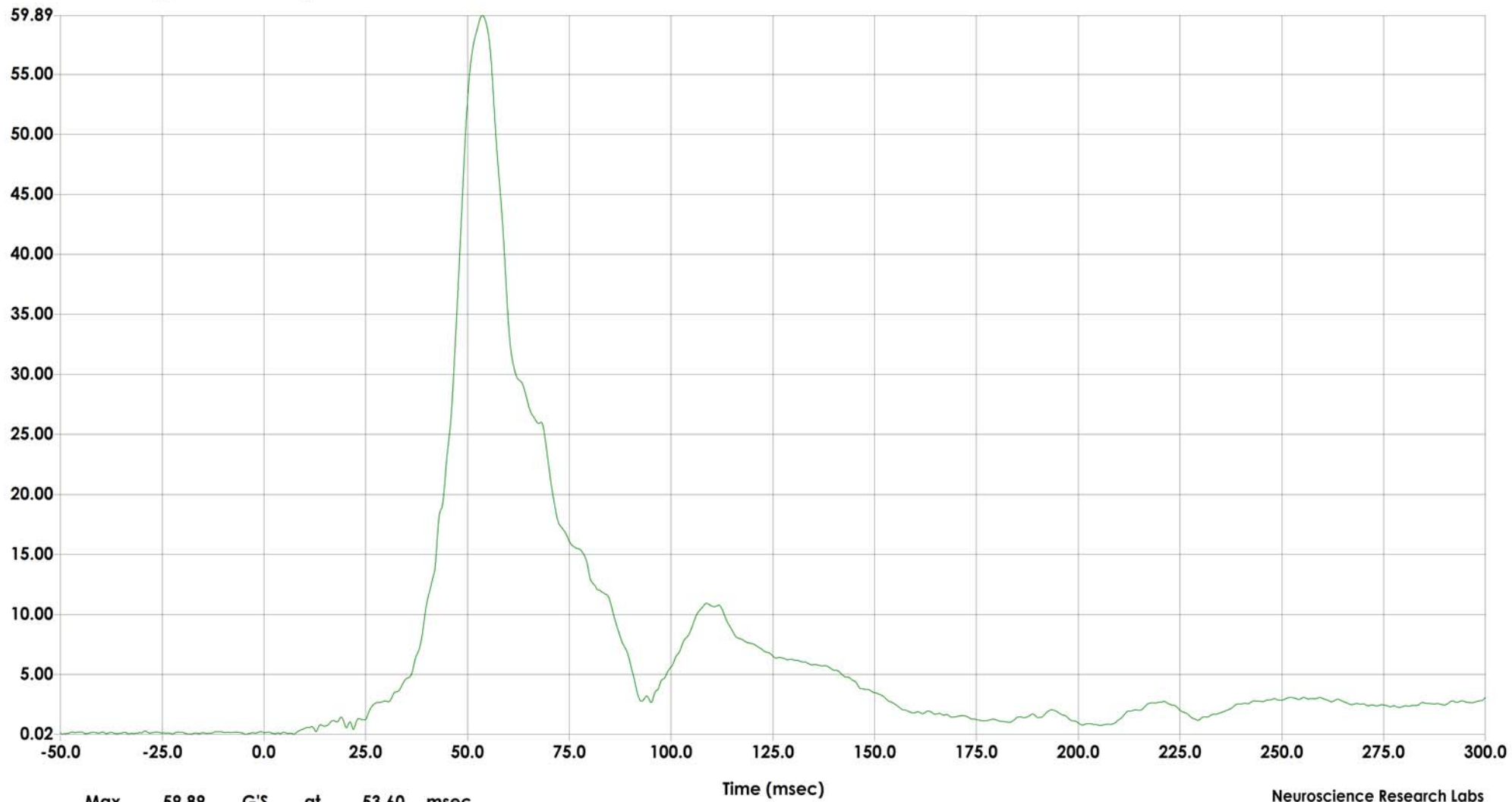
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC180
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location
Sensor Info MCW Multiviewer
Serial Number 3.5.2j



G'S Passenger Lower Spine T12 Resultant Acceleration vs. Time



Max 59.89 G'S at 53.60 msec
Min 0.02 G'S at -49.60 msec

MC 5304 Plot 058

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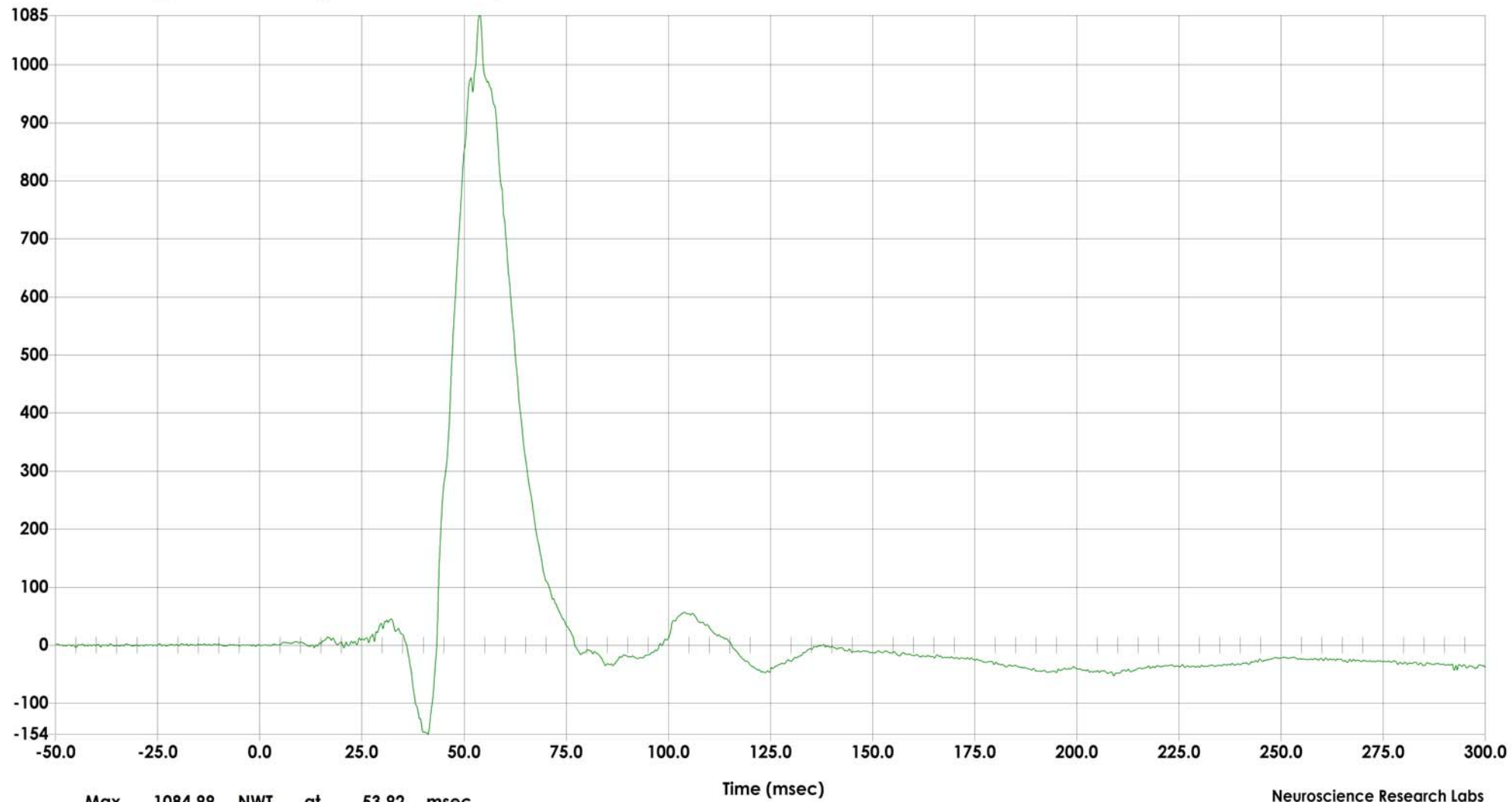
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location PVIL
Sensor Info Denton 3228J
Serial Number 3228J_283



NWT Passenger Iliac Wing Force on Impact Side vs. Time



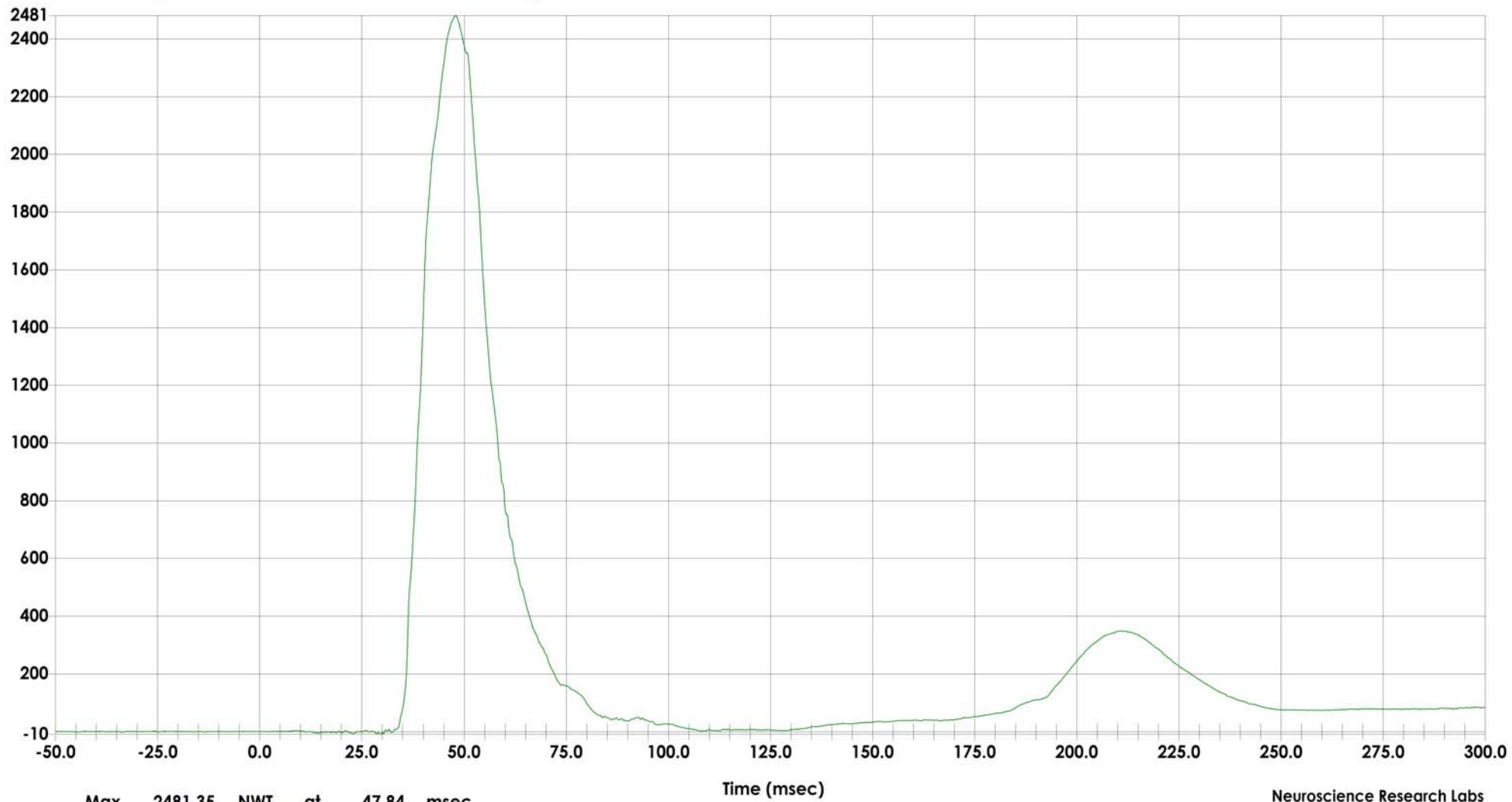
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location PVAL
Sensor Info Denton 3249J
Serial Number 3249J_270



NWT Passenger Acetabulum Force on Impact Side vs. Time



Max 2481.35 NWT at 47.84 msec
Min -9.68 NWT at 29.44 msec

MC 5304 Plot 032

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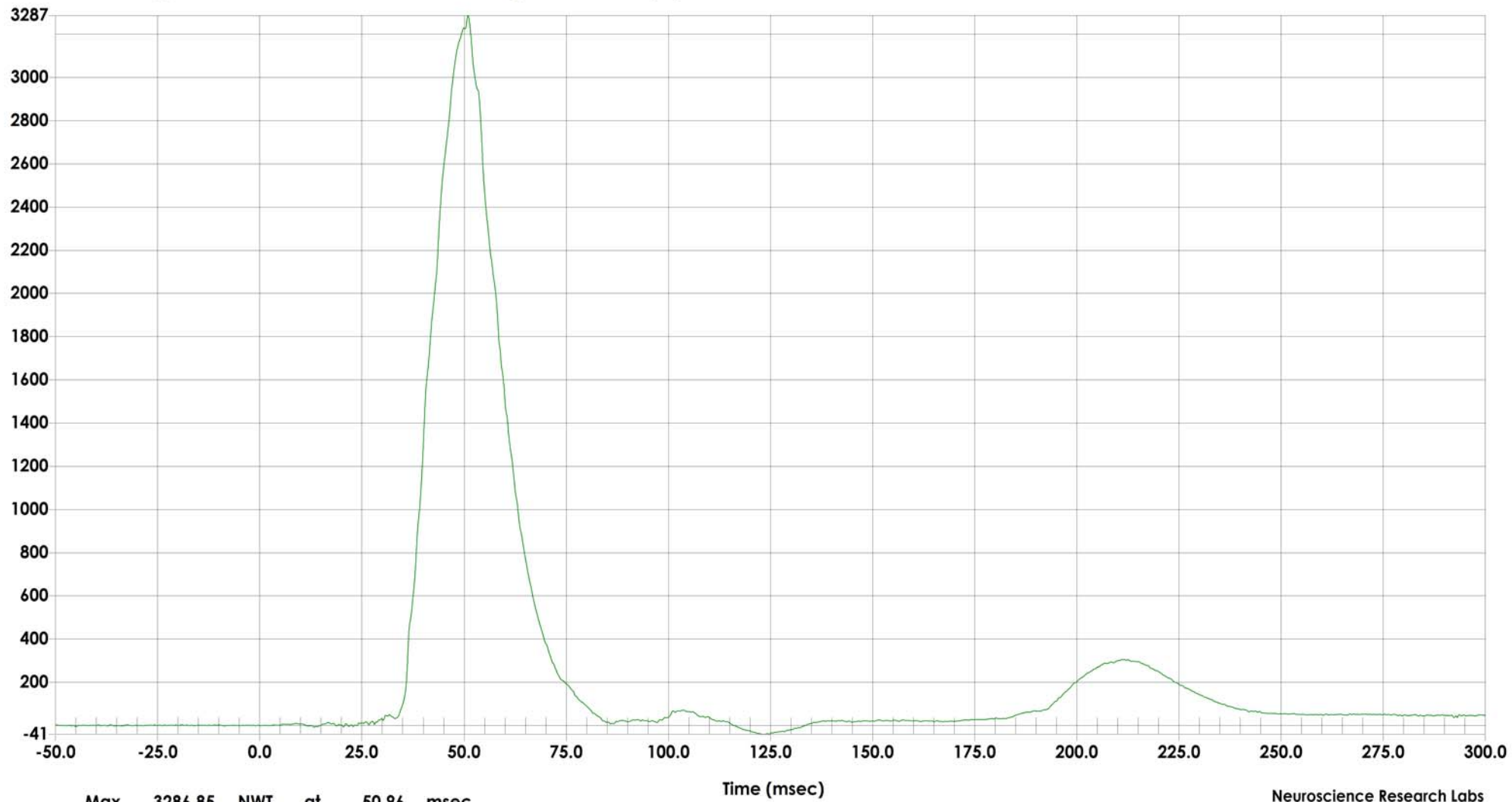
Test ID MC 5304
Date 03-13-2012
Description 2012 Honda CR-V 5 Door SUV SINCAP

Filter CFC600
Sampling Rate (Hz) 12500
Number of Points 4376
Pretrigger Points 626

Sensor Location
Sensor Info MCW Multiviewer
Serial Number 3.5.2j



NWT Passenger Total Pelvic Force on Impact Side (Y) vs. Time



Max 3286.85 NWT at 50.96 msec
Min -41.29 NWT at 123.36 msec

MC 5304 Plot 059

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Research 151
Milwaukee, WI 53295

Test Vehicle: 2012 Honda CRV 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

APPENDIX C
DUMMY CONFIGURATION AND PERFORMANCE DATA

TABLE 1
EXTERNAL MEASUREMENTS (ES-IIre)

ES-IIre Serial Number F038 Test Sequences 5 & 6

TEST PARAMETER	SPEC.	PRE		POST	
Date	-	2/29/12		3/19/12	
Sequential Test Number	-	5		6	
		Result	Pass/Fail	Result	Pass/Fail
Temperature (°C)	20.6-22.2	21.6	Pass	21.0	Pass
Relative Humidity (%)	10-70	33.5	Pass	40.1	Pass
Sitting Height	900 - 918	912	Pass	914	Pass
Seat to Shoulder Joint	558 -572	565	Pass	565	Pass
Seat to Lower Face of Thoracic Spine Box	346 -356	352	Pass	354	Pass
Seat to Hip Joint (Center of Bolt)	97 - 103	101	Pass	100	Pass
Sole to Seat, Sitting	433 - 451	442	Pass	440	Pass
Head Width	152 -158	155	Pass	156	Pass
Shoulder/Arm Width	461 - 479	474	Pass	473	Pass
Thorax Width	322 - 332	324	Pass	325	Pass
Abdomen Width	273 - 287	282	Pass	283	Pass
Pelvis/Lap Width	359 - 373	361	Pass	365	Pass
Head Depth	196 - 206	201	Pass	202	Pass
Thorax Depth	262 - 272	270	Pass	270	Pass
Abdomen Depth	194 - 204	202	Pass	198	Pass
Pelvis Depth	235 - 245	240	Pass	241	Pass
Back of Buttocks to Hip Joint (Center of Bolt)	150 - 160	157	Pass	155	Pass
Back of Buttocks to Front Knee	597 - 615	600	Pass	600	Pass

TABLE 2
HEAD DROP TEST (ES-IIre)

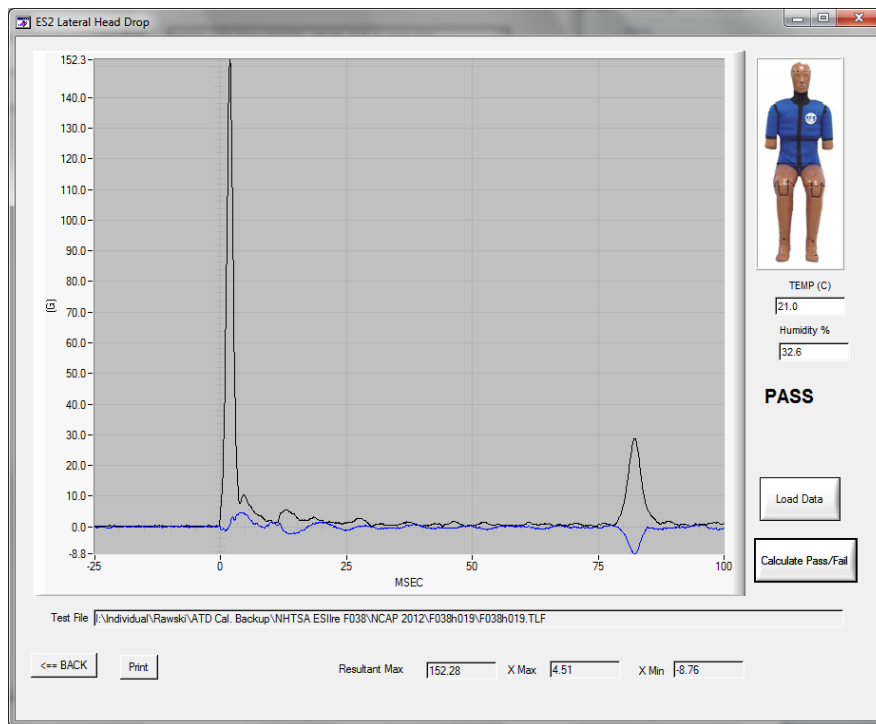
ES-IIre Serial Number F038

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/24/12		3/15/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Head Assembly Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.0	Pass	21.5	Pass
	Min		20.7	Pass	20.8	Pass
Humidity (%) – During Soak	Max	10.0-70.0	32.6	Pass	37.2	Pass
	Min		21.1	Pass	31.1	Pass
Temperature – During Test (°C)		20.6-22.2	21.0	Pass	21.5	Pass
Humidity – During Test (%)		10-70	32.6	Pass	37.2	Pass
Peak Head Resultant Acceleration (G)		125-155	152.3	Pass	153.6	Pass
Peak Head X Acceleration (G)		<15	4.51	Pass	4.85	Pass
Unimodal (Oscillation) (Yes/No)		<15%	-	Pass	-	Pass

TABLE 2
HEAD DROP TEST (ES-Ilre) (CONTINUED)

PRE-TEST



POST-TEST

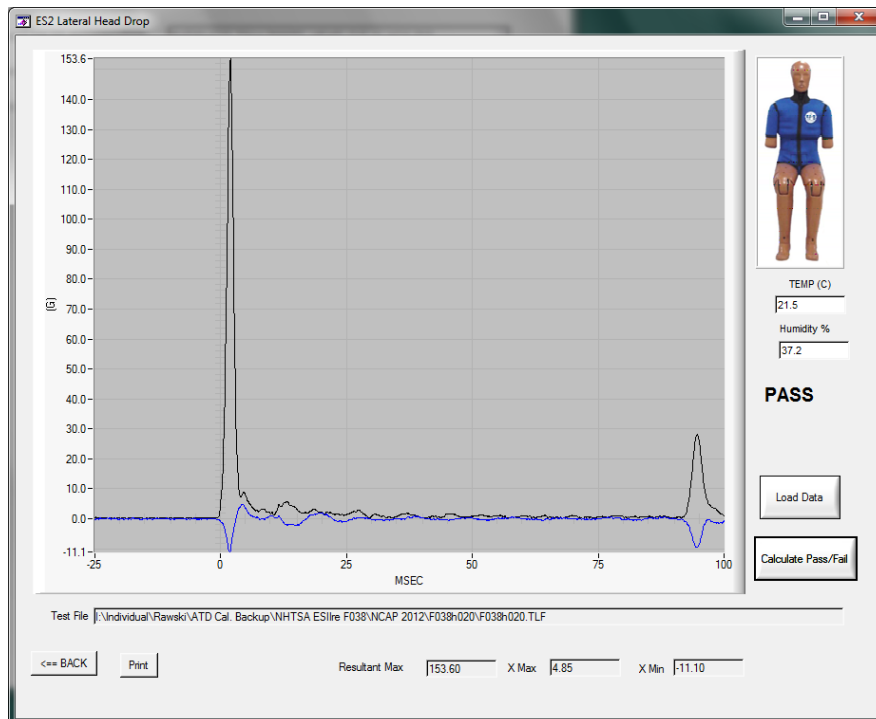


TABLE 3
NECK PENDULUM TEST (ES-IIre)

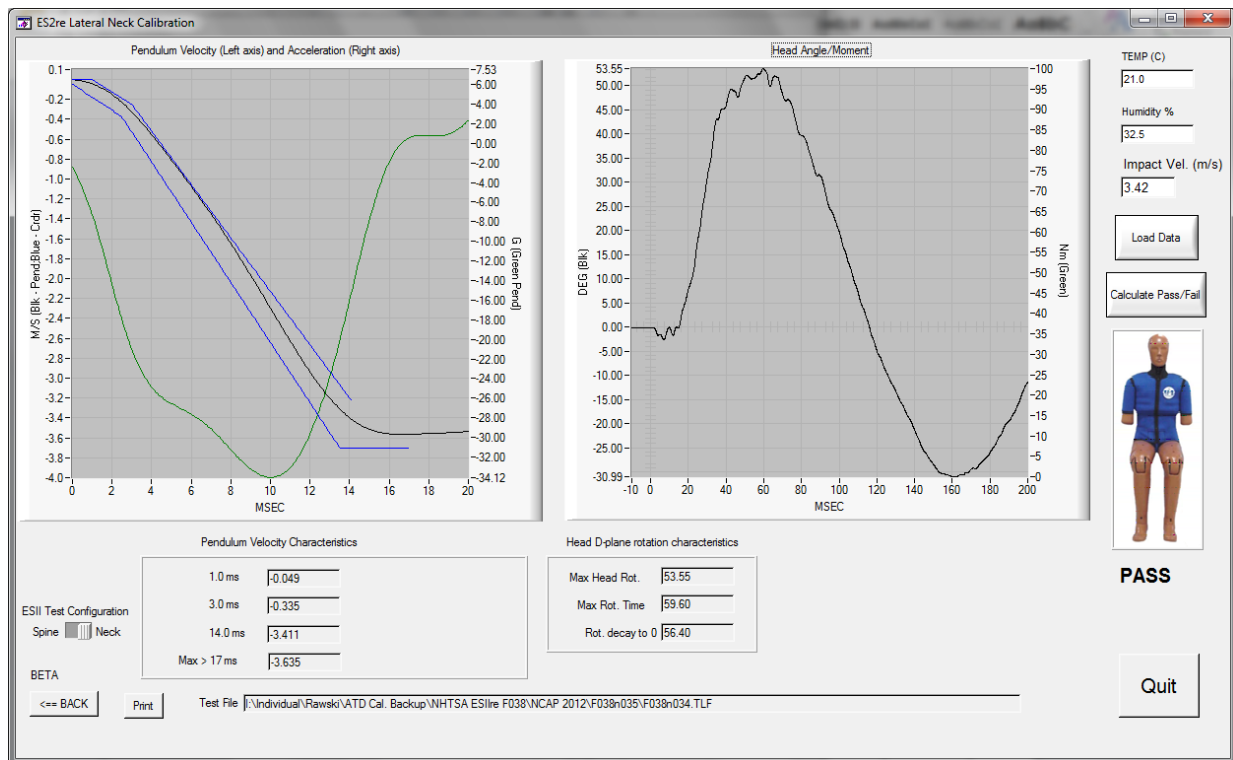
ES-IIre Serial Number F038

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/24/12		3/16/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Neck Assembly Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.0	Pass	21.0	Pass
	Min		20.7	Pass	20.8	Pass
Humidity (%) – During Soak	Max	10.0-70.0	32.5	Pass	35.0	Pass
	Min		21.1	Pass	31.1	Pass
Temperature – During Test (°C)		20.6-22.2	21.0	Pass	21.0	Pass
Humidity – During Test (%)		10-70	32.5	Pass	35.0	Pass
Pendulum Velocity (m/s)		3.3-3.5	3.42	Pass	3.45	Pass
Pendulum Velocity Corridors (m/s)	0-1.0 ms	(-0.05)-0.00	-0.049	Pass	-0.045	Pass
	2.5-3.0 ms	(-0.375) - (-0.25)	-0.335	Pass	-0.343	Pass
	13.5-14.0 ms	(-3.7) - (-3.20)	-3.41	Pass	-3.54	Pass
	Max > 17 ms	-3.7	-3.64	Pass	-3.67	Pass
Max D-Plane rotation (deg)		49-59	53.6	Pass	50.4	Pass
Time of Max D-Plane Rotation (ms)		54-66	59.6	Pass	58.3	Pass
Time of Moment Decay from Peak to 0 Nm (ms)		53-88	56.4	Pass	57.2	Pass

TABLE 3
NECK PENDULUM TEST (ES-Ilre) (CONTINUED)

PRE-TEST



POST-TEST

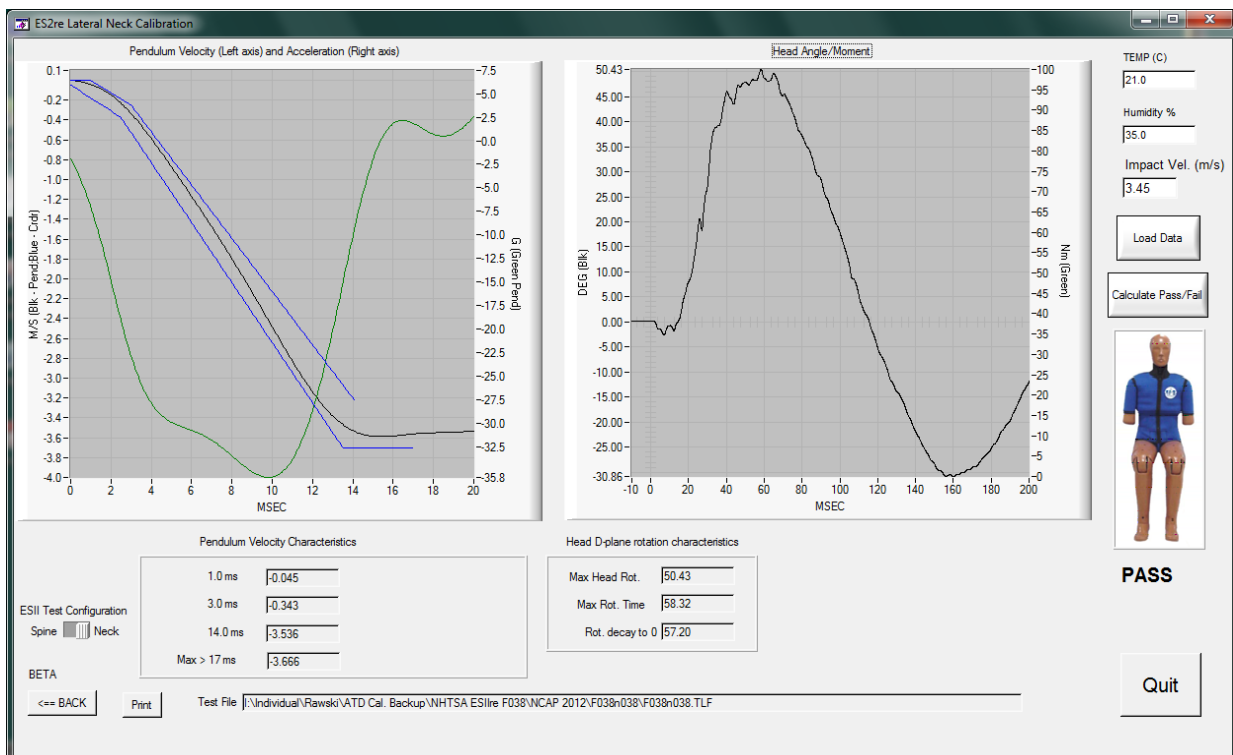


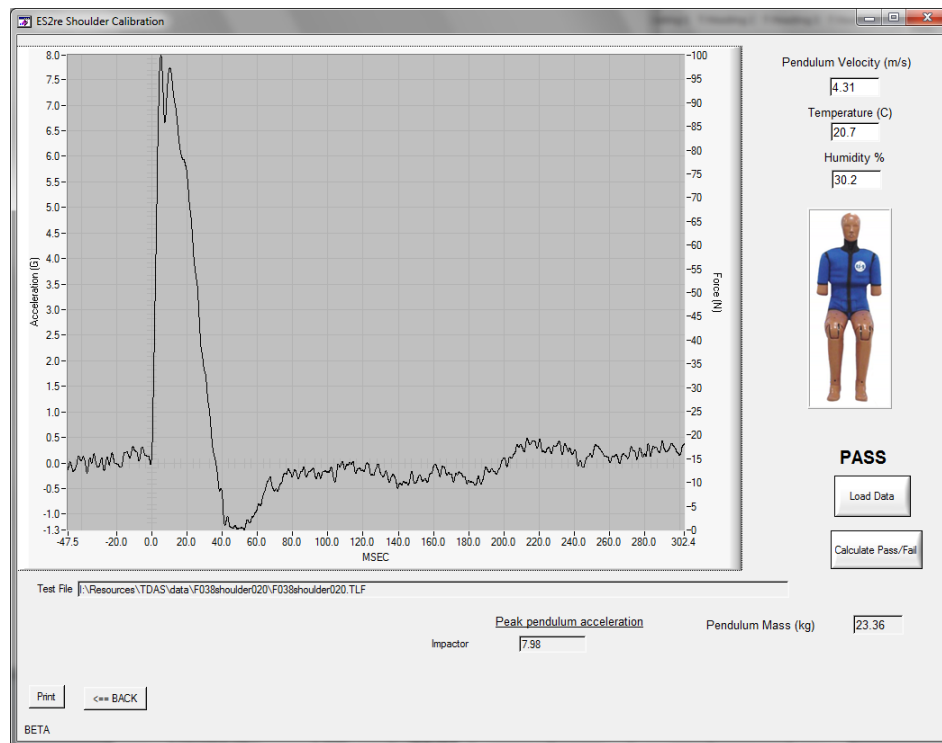
TABLE 4
SHOULDER IMPACT TEST (ES-Ilre)

ES-Ilre Serial Number F038 Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/29/12		3/17/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	20.8	Pass	21.3	Pass
	Min		20.6	Pass	21.0	Pass
Humidity (%) – During Soak	Max	10.0-70.0	30.2	Pass	37.4	Pass
	Min		24.6	Pass	37.1	Pass
Temperature – During Test (°C)		20.6-22.2	20.7	Pass	21.3	Pass
Humidity – During Test (%)		10-70	30.2	Pass	37.4	Pass
Pendulum Velocity (m/s)		4.2-4.4	4.31	Pass	4.31	Pass
Peak Impactor Acceleration (G)		7.5-10.5	7.98	Pass	7.87	Pass

TABLE 4
SHOULDER IMPACT TEST (ES-IIre) (CONTINUED)

PRE-TEST



POST-TEST

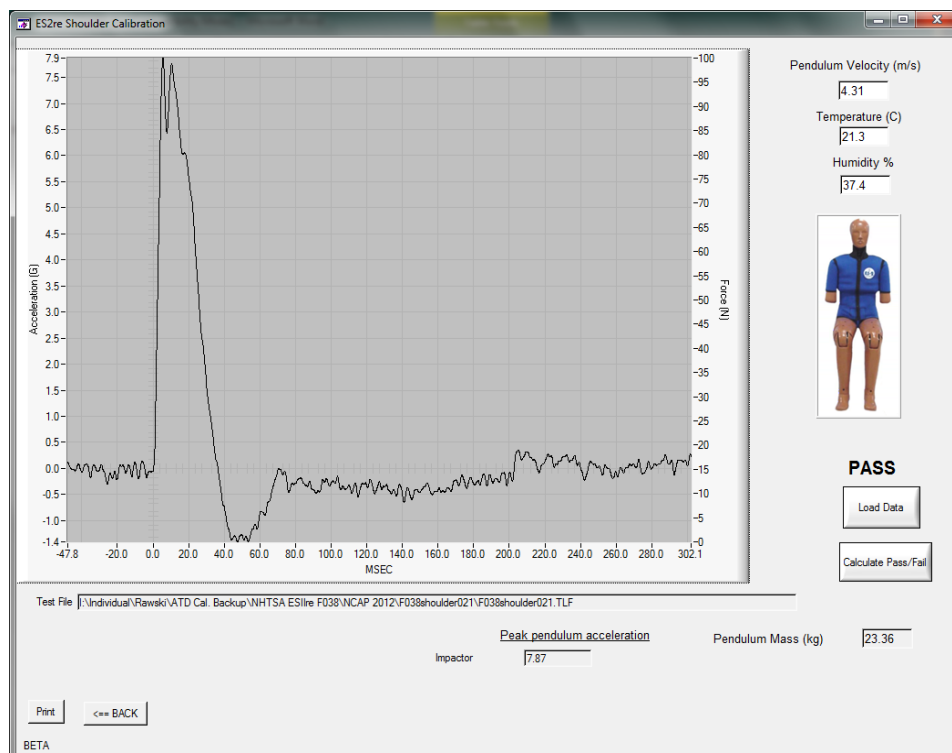


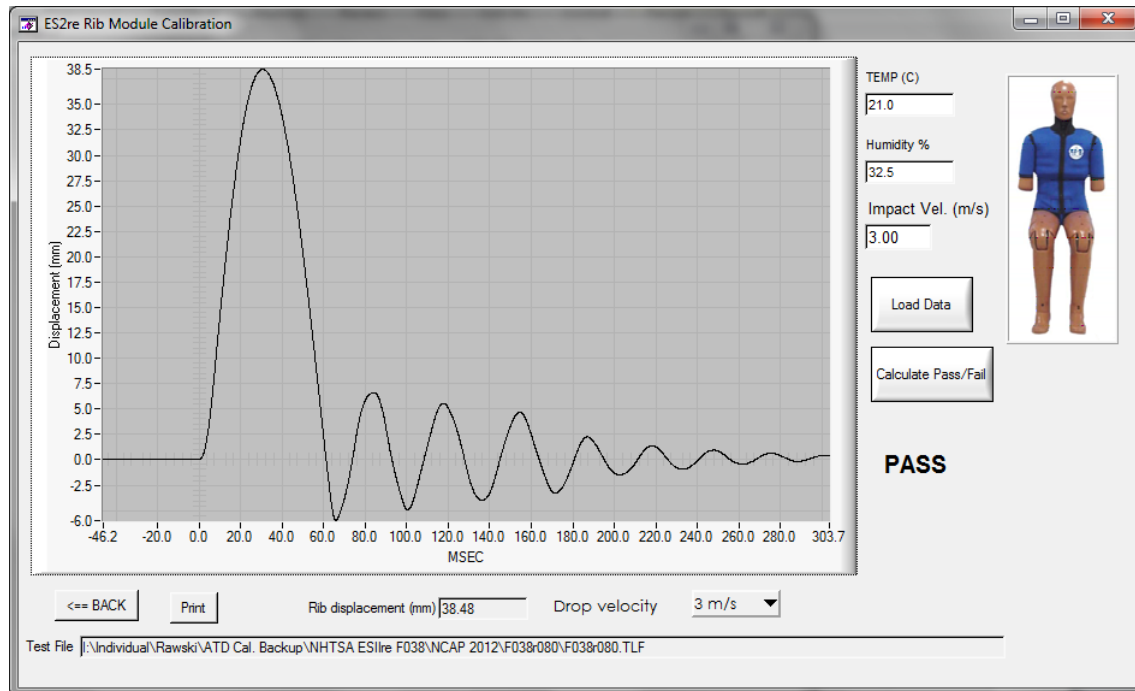
TABLE 5
THORAX – UPPER RIB DROP TEST (ES-Ilre)

ES-Ilre Serial Number F038 Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/24/12		3/16/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Upper Rib Drop Module Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.0	Pass	20.8	Pass
	Min		20.6	Pass	20.6	Pass
Humidity (%) – During Soak	Max	10.0-70.0	32.5	Pass	35.0	Pass
	Min		26.1	Pass	32.4	Pass
Temperature – During Test (°C)		20.6-22.2	21.0	Pass	20.8	Pass
Humidity – During Test (%)		10-70	32.5	Pass	35.0	Pass
1 st Test - Drop Height 459 ± 5 mm		36-40	38.5	Pass	38.3	Pass
2 nd Test - Drop Height 815 ± 5 mm		46-51	49.4	Pass	49.5	Pass

TABLE 5
THORAX – UPPER RIB DROP TEST (ES-IIre) (CONTINUED)
3.00 m/s

PRE-TEST



POST-TEST

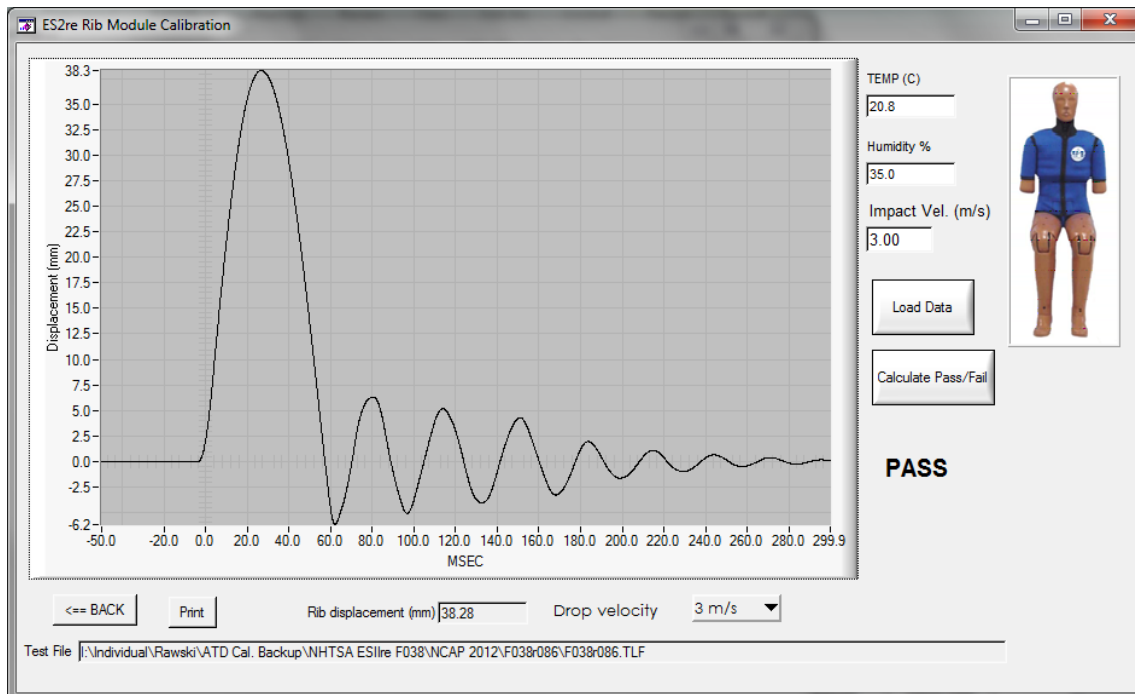
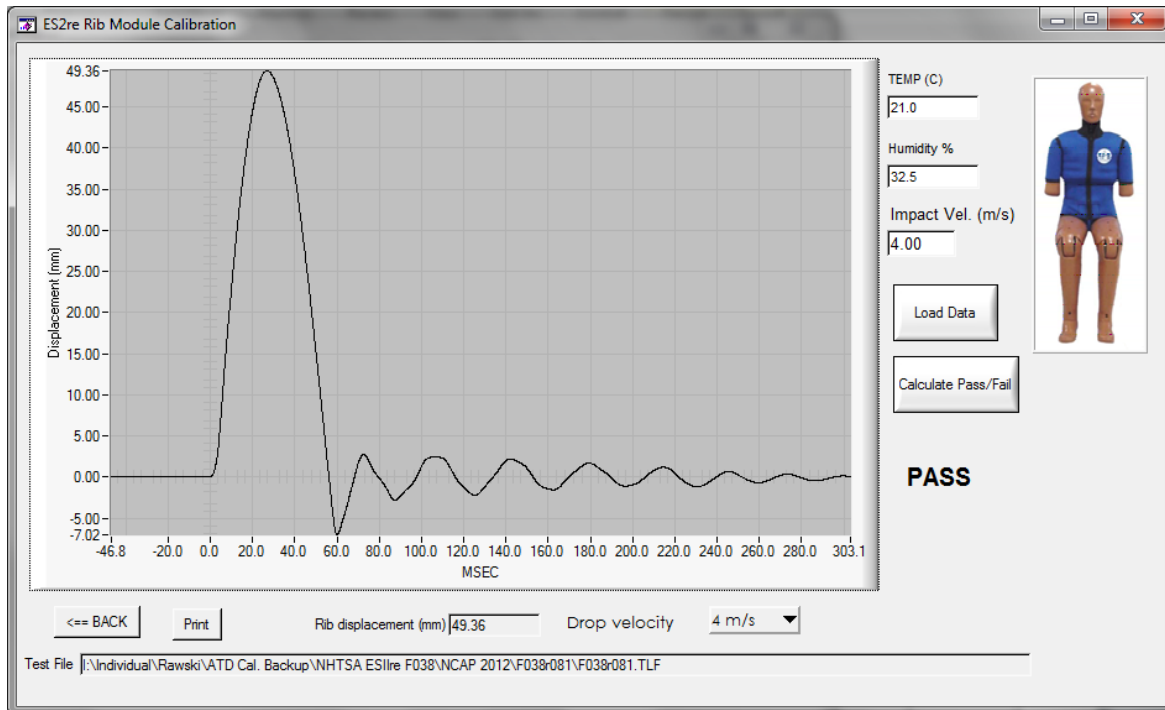


TABLE 5
THORAX – UPPER RIB DROP TEST (ES-IIre) (CONTINUED)
4.00 m/s

PRE-TEST



POST-TEST

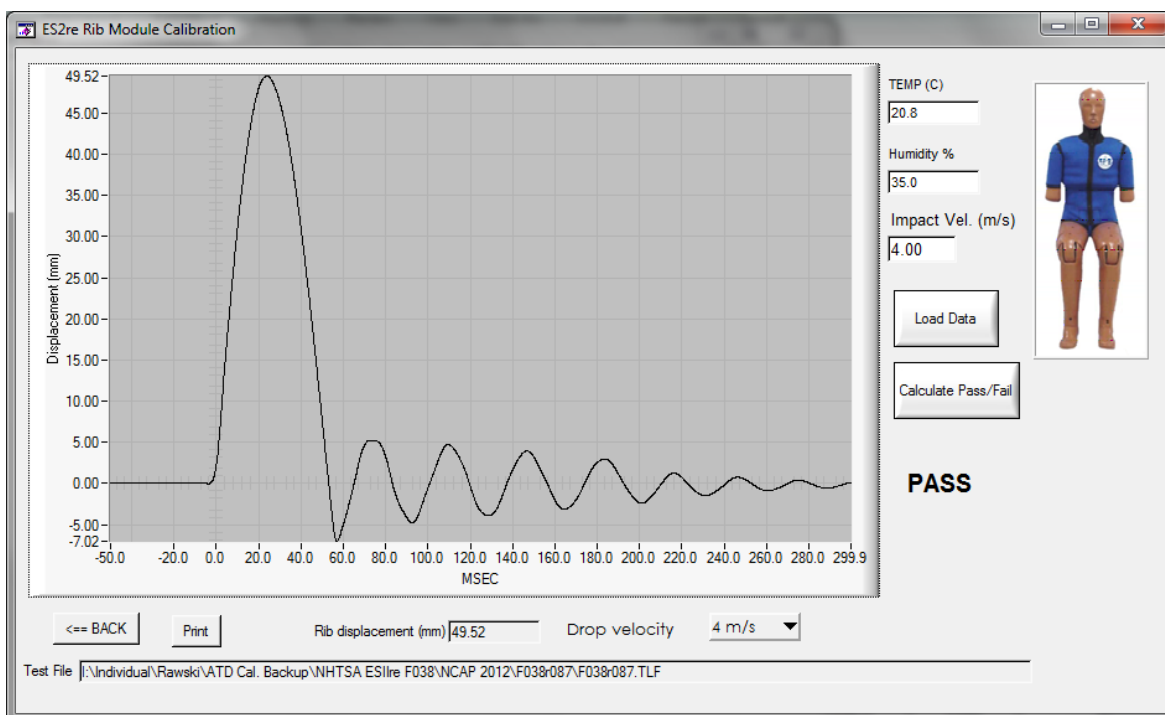


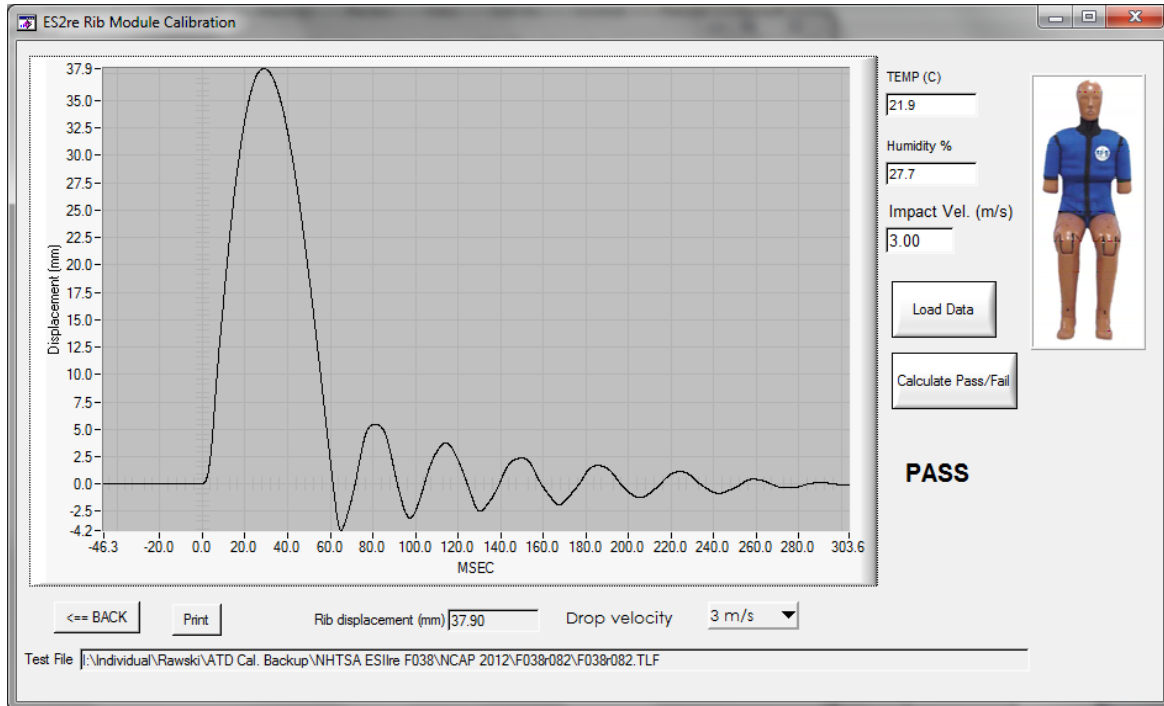
TABLE 6
THORAX – MIDDLE RIB DROP TEST (ES-Ilre)

ES-Ilre Serial Number F038 Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/24/12		3/15/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Middle Rib Drop Module Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.9	Pass	21.8	Pass
	Min		20.6	Pass	20.9	Pass
Humidity (%) – During Soak	Max	10.0-70.0	27.7	Pass	37.9	Pass
	Min		26.0	Pass	36.7	Pass
Temperature – During Test (°C)		20.6-22.2	21.9	Pass	21.8	Pass
Humidity – During Test (%)		10-70	27.7	Pass	37.9	Pass
1 st Test - Drop Height 459 ± 5 mm		36-40	37.9	Pass	37.9	Pass
2 nd Test - Drop Height 815 ± 5 mm		46-51	49.7	Pass	49.9	Pass

TABLE 6
THORAX – MIDDLE RIB DROP TEST (ES-IIre) (CONTINUED)
3.00 m/s

PRE-TEST



POST-TEST

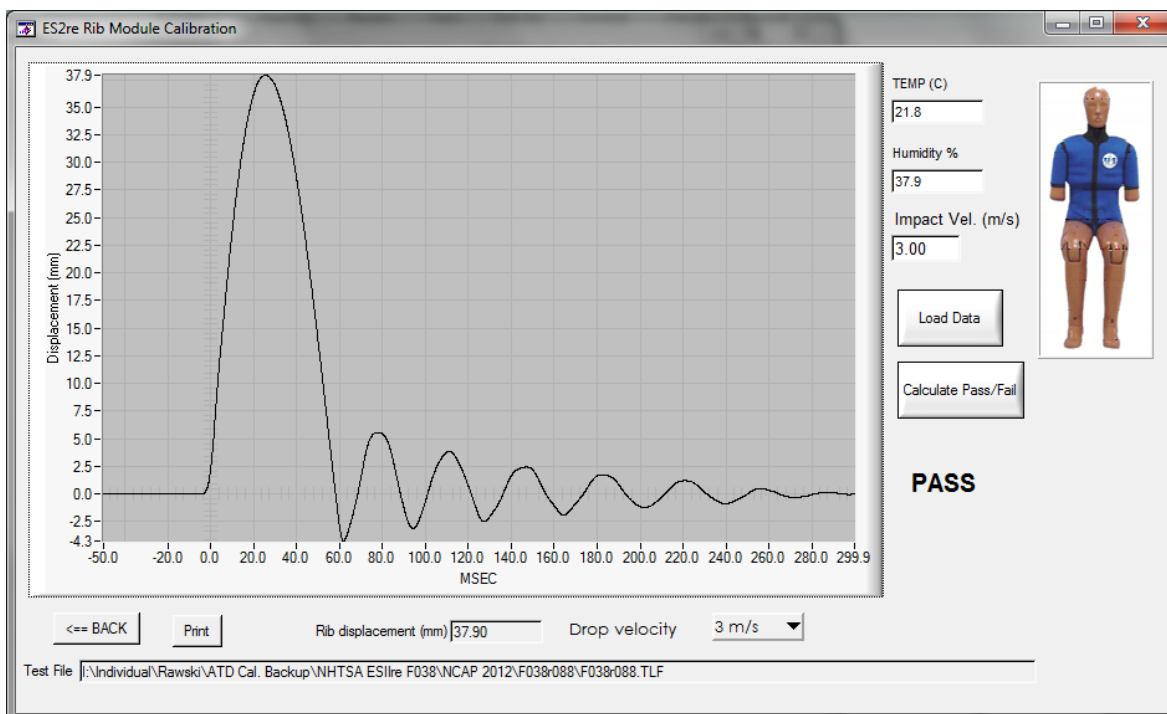
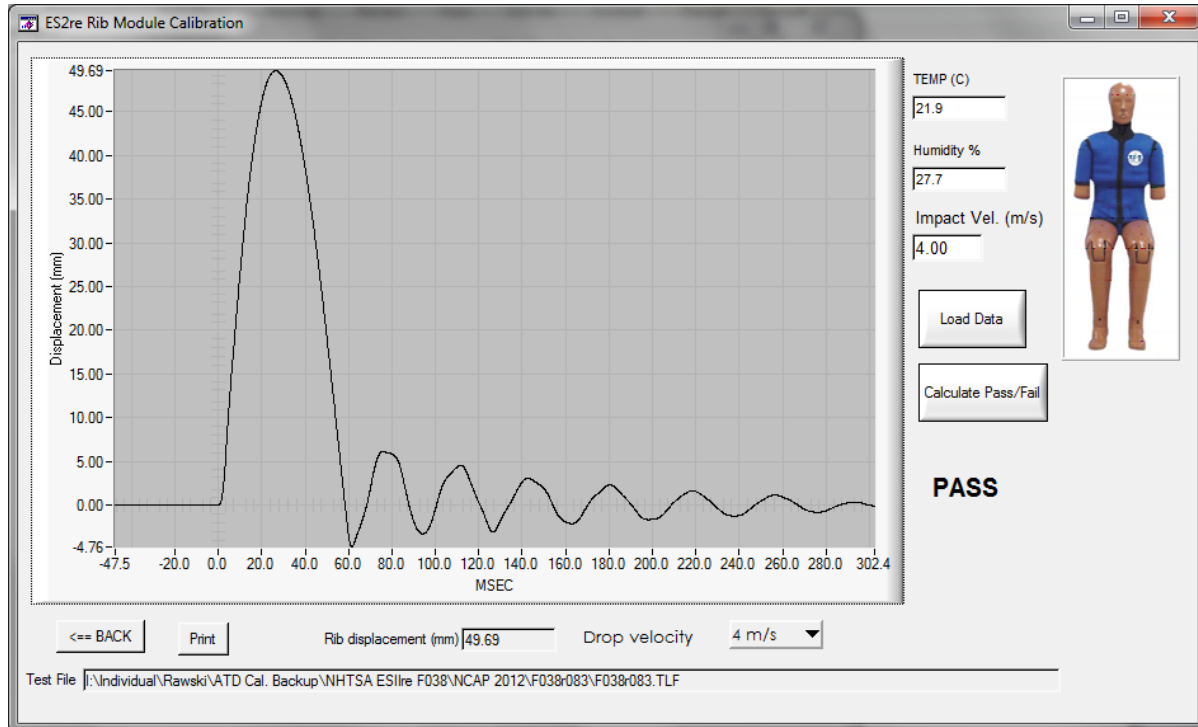


TABLE 6
THORAX – MIDDLE RIB DROP TEST (ES-IIre) (CONTINUED)
4.00 m/s

PRE-TEST



POST-TEST

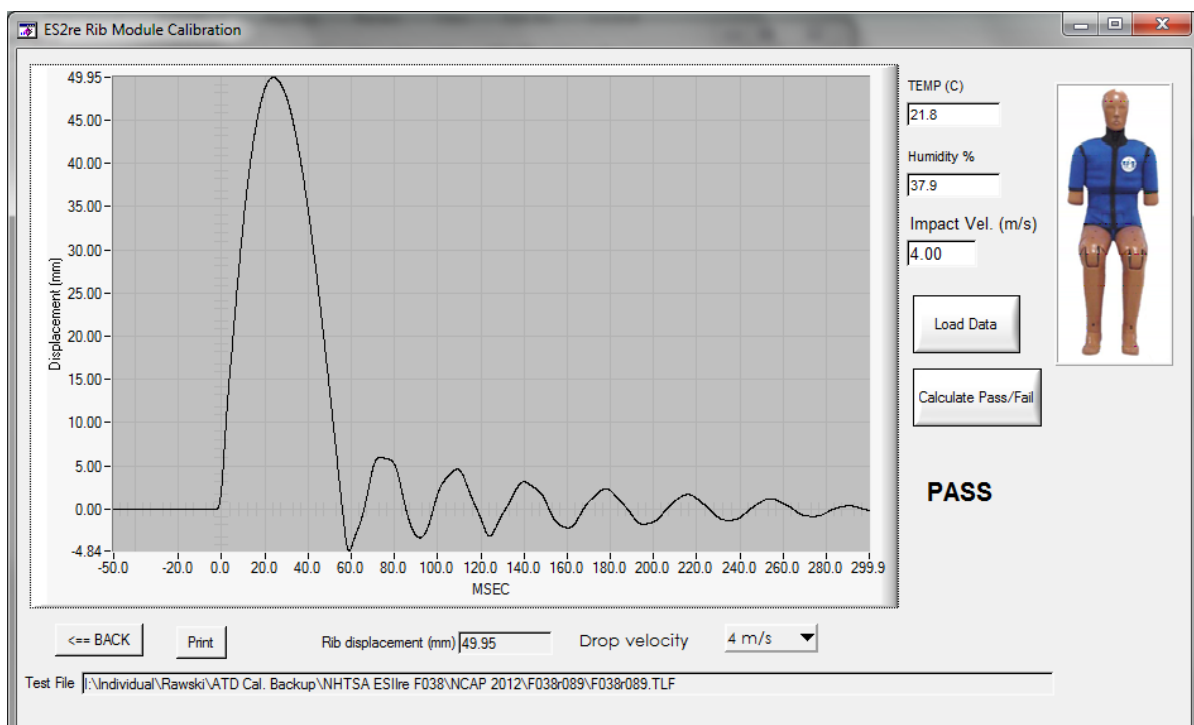


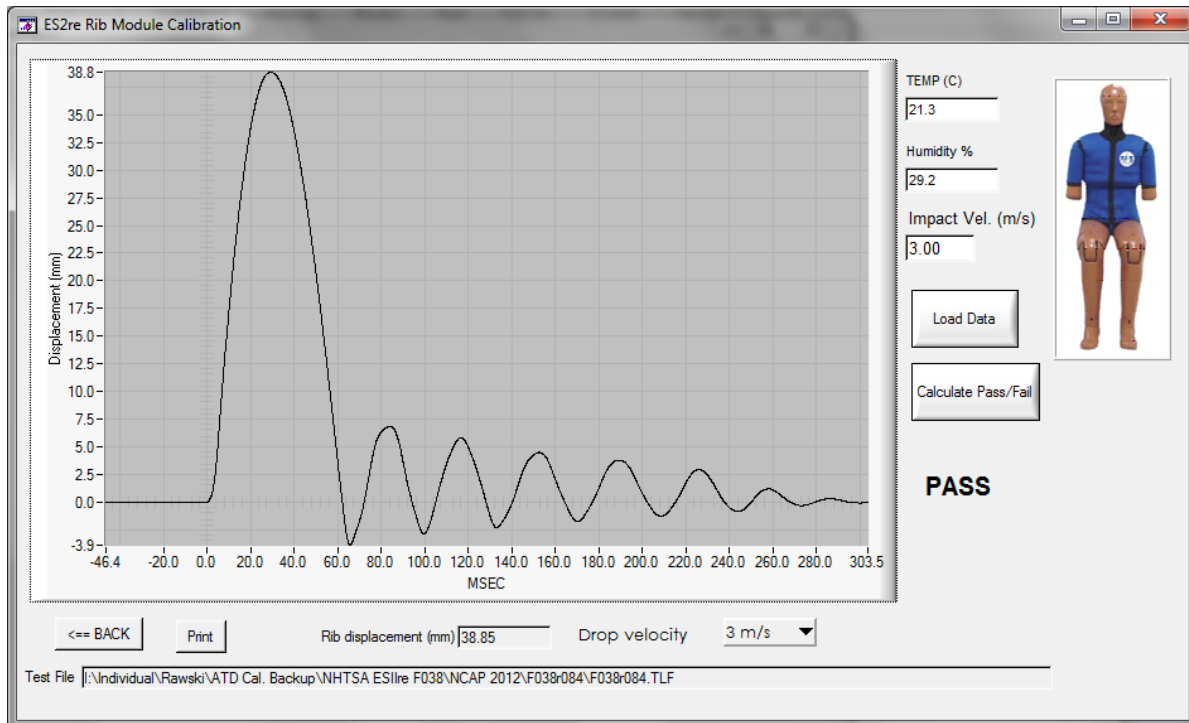
TABLE 7
THORAX – LOWER RIB DROP TEST (ES-Ilre)

ES-Ilre Serial Number F038 Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/24/12		3/16/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Lower Rib Drop Module Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.3	Pass	21.0	Pass
	Min		21.0	Pass	20.6	Pass
Humidity (%) – During Soak	Max	10.0-70.0	29.2	Pass	35.0	Pass
	Min		28.7	Pass	32.4	Pass
Temperature – During Test (°C)		20.6-22.2	21.3	Pass	21.0	Pass
Humidity – During Test (%)		10-70	29.2	Pass	35.0	Pass
1 st Test - Drop Height 459 ± 5 mm		36-40	38.9	Pass	38.9	Pass
2 nd Test - Drop Height 815 ± 5 mm		46-51	49.4	Pass	49.5	Pass

TABLE 7
THORAX – LOWER RIB DROP TEST (ES-Ilre) (CONTINUED)
3.00 m/s

PRE-TEST



POST-TEST

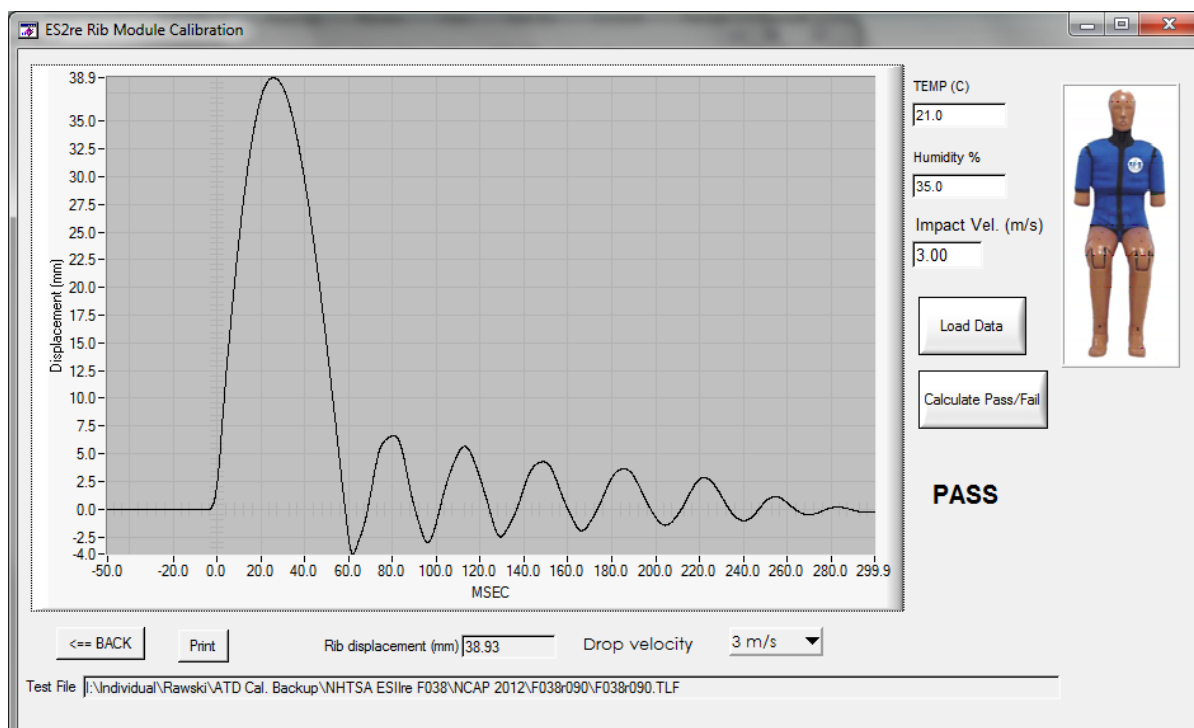
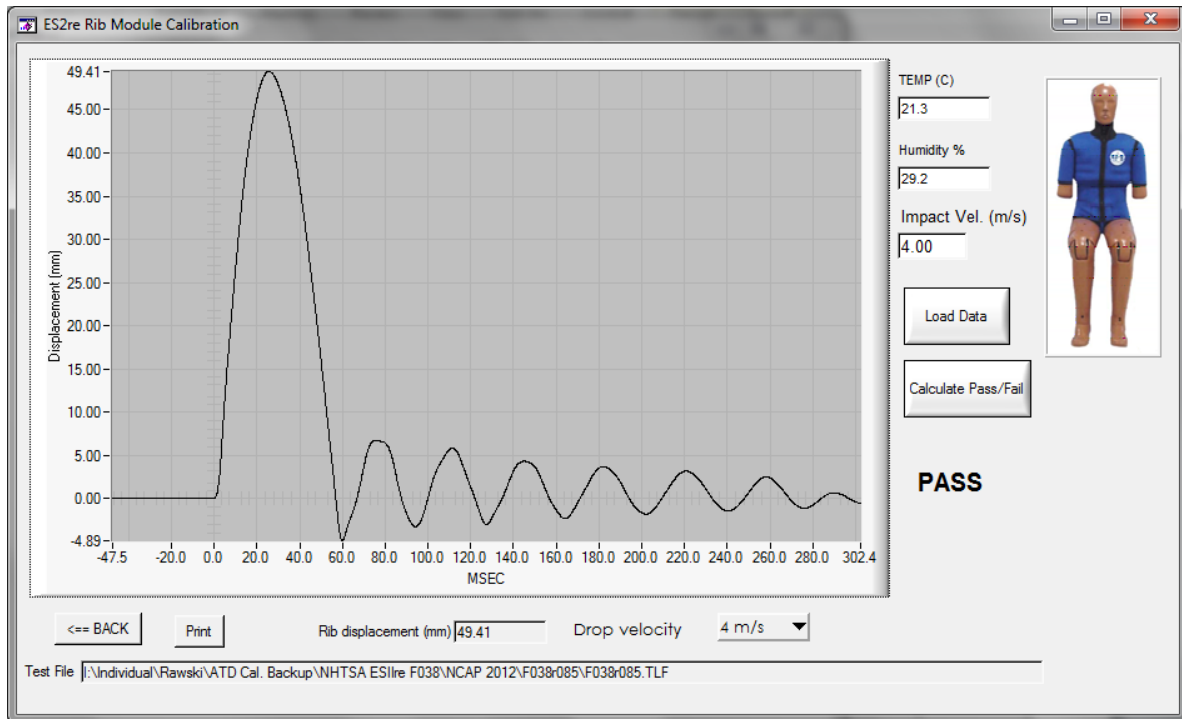


TABLE 7
THORAX – LOWER RIB DROP TEST (ES-IIre) (CONTINUED)
4.00 m/s

PRE-TEST



POST-TEST

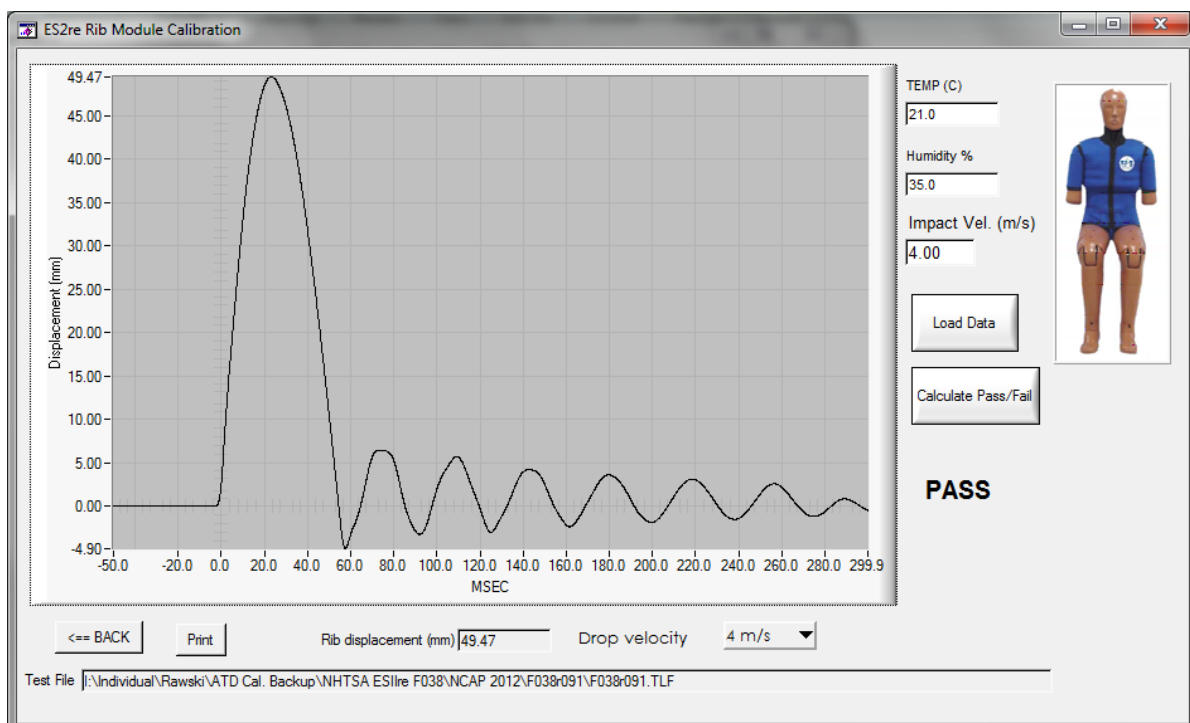


TABLE 8
THORAX – FULL BODY IMPACT TEST (ES-Ilre)

ES-Ilre Serial Number F038 Test Sequences 5 & 6

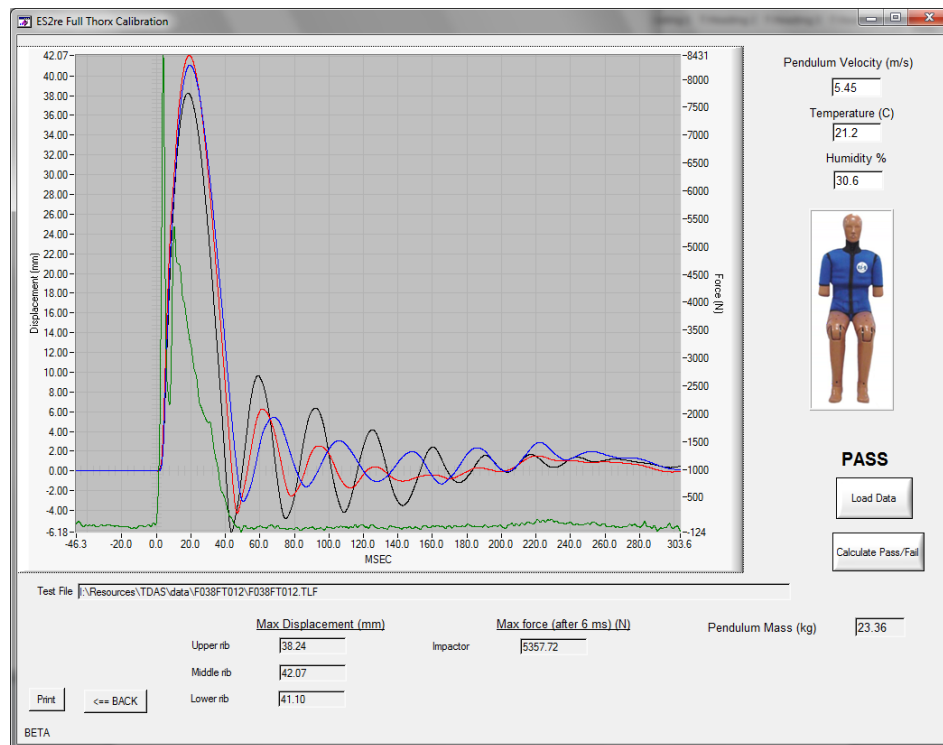
TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/29/12		3/17/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.2	Pass	21.3	Pass
	Min		20.8	Pass	21.0	Pass
Humidity (%) – During Soak	Max	10.0-70.0	30.6	Pass	37.7	Pass
	Min		24.6	Pass	37.1	Pass
Temperature – During Test (°C)		20.6-22.2	21.2	Pass	21.3	Pass
Humidity – During Test (%)		10-70	30.6	Pass	37.7	Pass
Peak Impactor Velocity (m/s)		5.4-5.6	5.45	Pass	5.45	Pass
Peak Upper Rib Deflection (mm)		34-41	38.2	Pass	37.4	Pass
Peak Middle Rib Deflection (mm)		37-45	42.1	Pass	41.5	Pass
Peak Lower Rib Deflection (mm)		37-44	41.1	Pass	40.9	Pass
Peak Impactor Force (>6ms) (kN)		5.1-6.2	5.36	Pass	5.43	Pass

Test Vehicle: 2012 Honda CRV 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

TABLE 8
THORAX – FULL BODY IMPACT TEST (ES-Ilre)

PRE-TEST



POST-TEST

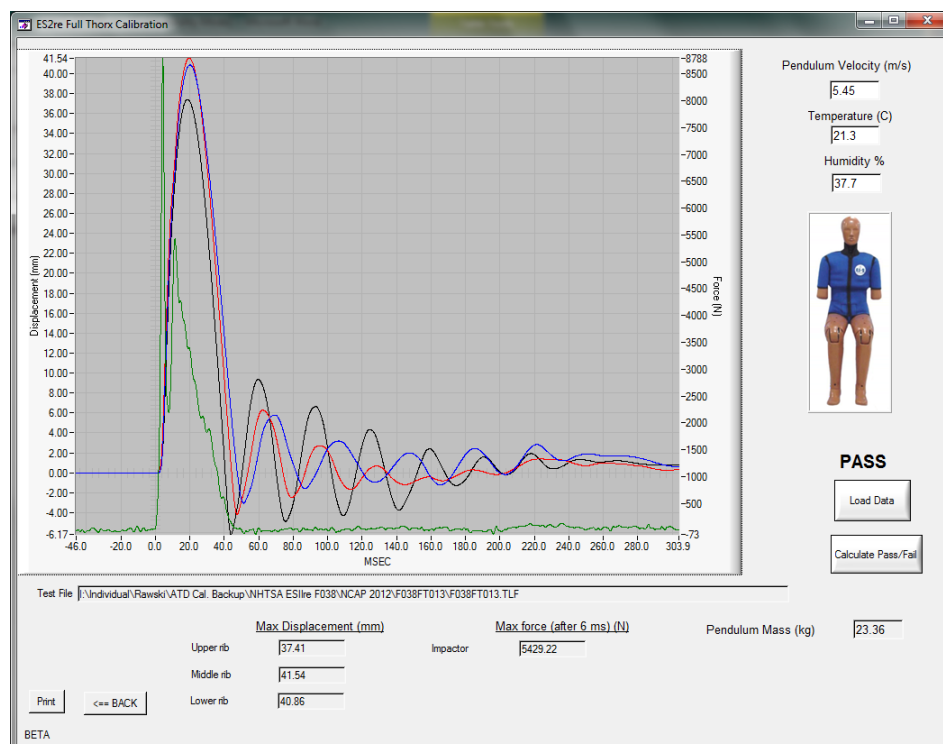


TABLE 9
ABDOMEN IMPACT TEST (ES-IIre)

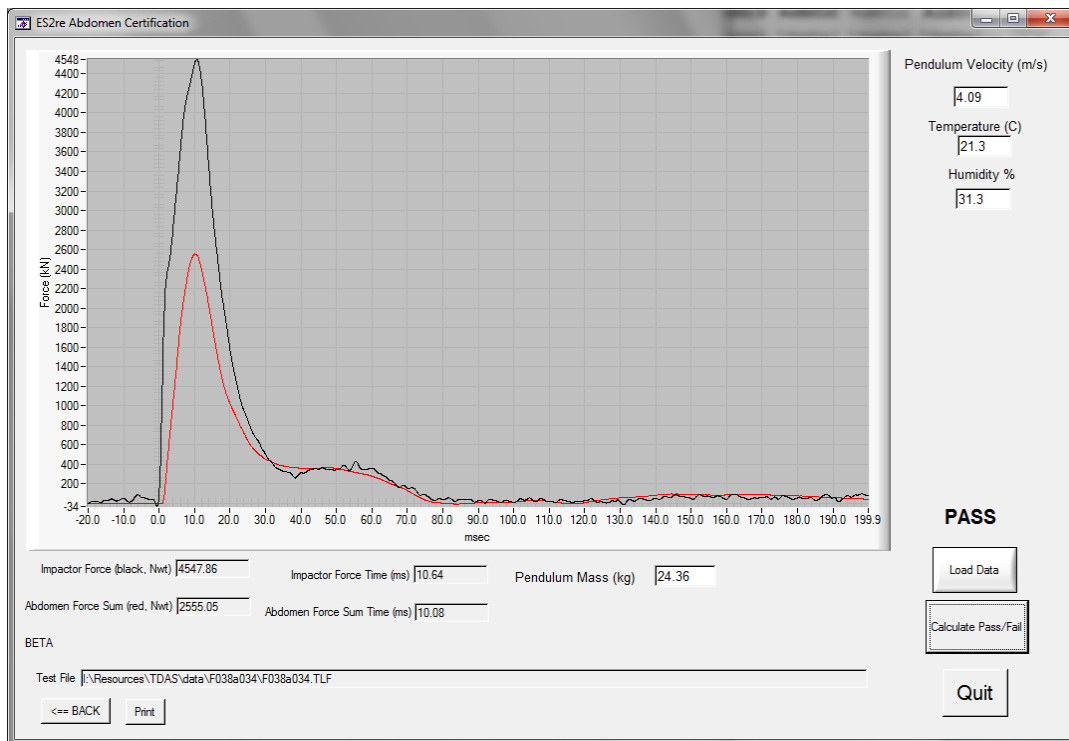
ES-IIre Serial Number F038

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/29/12		3/17/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.3	Pass	21.3	Pass
	Min		20.8	Pass	21.0	Pass
Humidity (%) – During Soak	Max	10.0-70.0	31.3	Pass	37.9	Pass
	Min		24.6	Pass	37.1	Pass
Temperature – During Test (°C)		20.6-22.2	21.3	Pass	21.3	Pass
Humidity – During Test (%)		10-70	31.3	Pass	37.9	Pass
Peak Impactor Velocity (m/s)		3.9-4.1	4.09	Pass	4.09	Pass
Sum of Abdominal Forces (kN)		2.2-2.7	2.56	Pass	2.54	Pass
Time of Abdominal Forces (ms)		10-12.3	10.1	Pass	11.1	Pass
Peak Impactor Force (kN)		4.0-4.8	4.55	Pass	4.43	Pass
Time of Peak Impactor Force (ms)		10.6-13.0	10.6	Pass	11.4	Pass

TABLE 9
ABDOMEN IMPACT TEST (ES-IIre) (CONTINUED)

PRE-TEST



POST-TEST

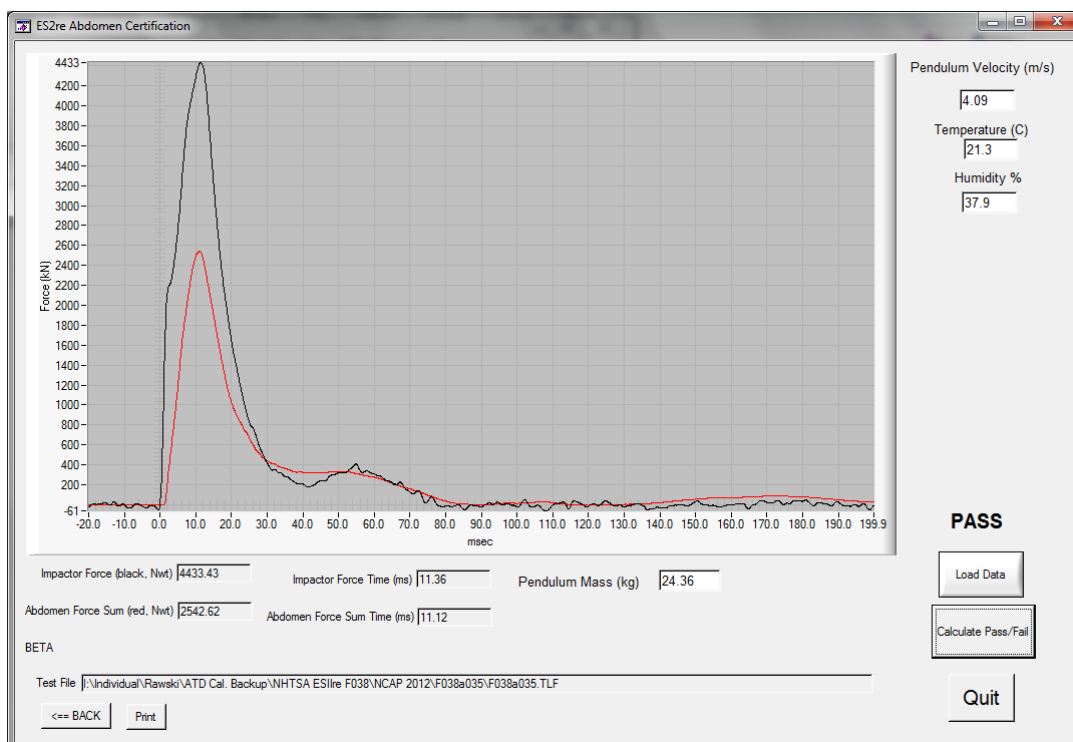


TABLE 10
LUMBAR SPINE FLEXION TEST (ES-Ilre)

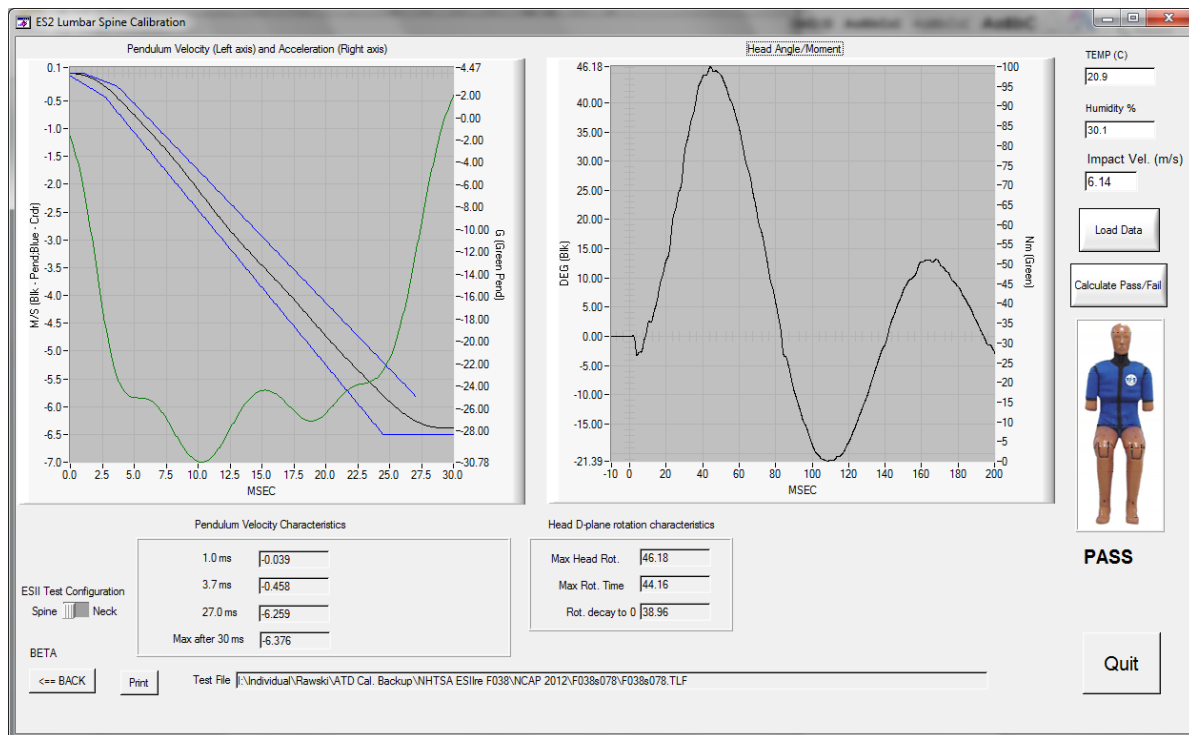
ES-Ilre Serial Number F038

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/24/12		3/16/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Lumbar Spine Assembly Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.0	Pass	21.2	Pass
	Min		20.7	Pass	20.8	Pass
Humidity (%) – During Soak	Max	10.0-70.0	32.5	Pass	35.2	Pass
	Min		21.1	Pass	35.0	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.2	Pass
Humidity – During Test (%)		10-70	30.1	Pass	35.2	Pass
Pendulum Velocity (m/s)		5.95-6.15	6.14	Pass	6.14	Pass
Pendulum Velocity Corridors (m/s)	0-1.0 ms	(-0.05)-0.00	-0.039	Pass	-0.040	Pass
	2.7-3.7 ms	(-0.425) - (-0.24)	-0.458	Pass	-0.453	Pass
	24.5-27.0 ms	(-6.50) - (-5.80)	-6.26	Pass	-5.88	Pass
	Max after 30 ms	-6.50	-6.38	Pass	-6.36	Pass
Maximum Headform Flexion Angle (deg)		45-55	46.2	Pass	45.3	Pass
Time at Maximum Flexion Angel (ms)		39-53	44.2	Pass	45.8	Pass
Time of Decay to Zero Angle from Peak (ms)		37-57	39.0	Pass	37.5	Pass

TABLE 10
LUMBAR SPINE FLEXION TEST (ES-IIre) (CONTINUED)

PRE-TEST



POST-TEST

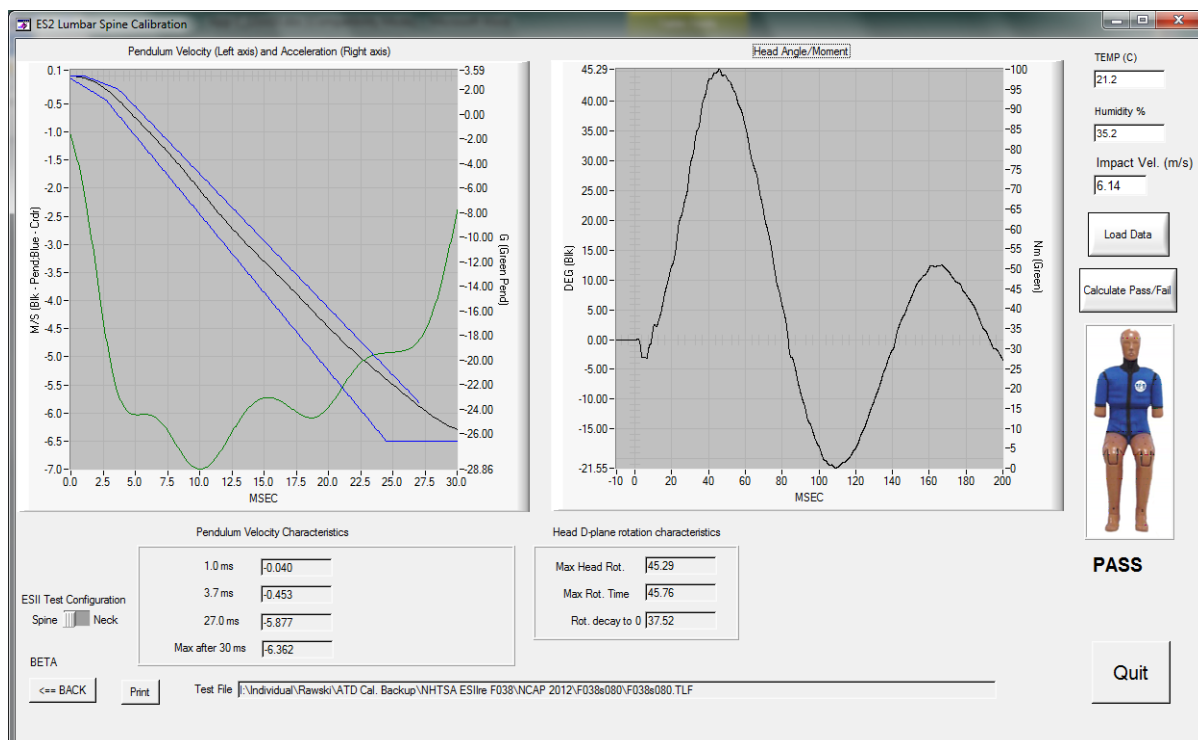


TABLE 11
PELVIS IMPACT TEST (ES-IIre)

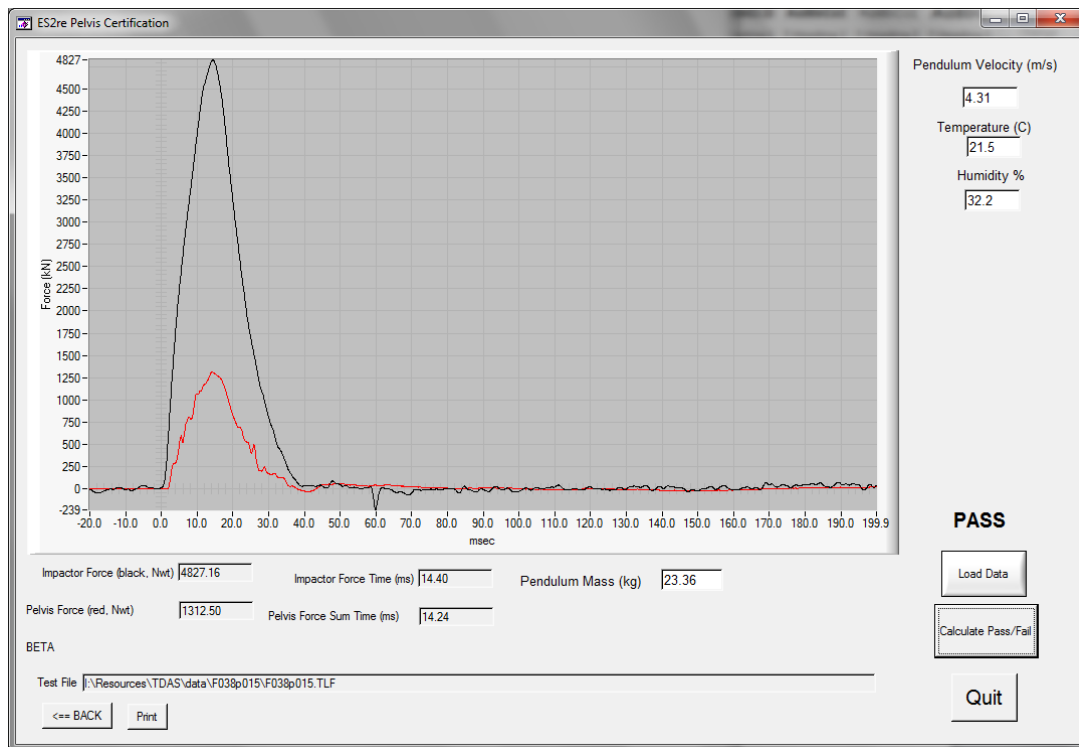
ES-IIre Serial Number F038

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	2/29/12		3/17/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature (°C) – During Soak	Max	20.6-22.2	21.5	Pass	21.4	Pass
	Min		20.8	Pass	21.0	Pass
Humidity (%) – During Soak	Max	10.0-70.0	32.2	Pass	37.9	Pass
	Min		26.4	Pass	37.1	Pass
Temperature – During Test (°C)		20.6-22.2	21.5	Pass	21.4	Pass
Humidity – During Test (%)		10-70	32.2	Pass	37.9	Pass
Pendulum Velocity (m/s)		4.2-4.4	4.31	Pass	4.31	Pass
Peak Impactor Force (kN)		4.7 – 5.4	4.83	Pass	4.87	Pass
Time at Peak Force (ms)		11.8-16.1	14.4	Pass	13.9	Pass
Peak Pubic Symphysis Force (kN)		1.23-1.59	1.31	Pass	1.38	Pass
Time at Peak Force (ms)		12.2-17.0	14.2	Pass	14.1	Pass

TABLE 11
PELVIS IMPACT TEST (ES-Ilre) (CONTINUED)

PRE-TEST



POST-TEST

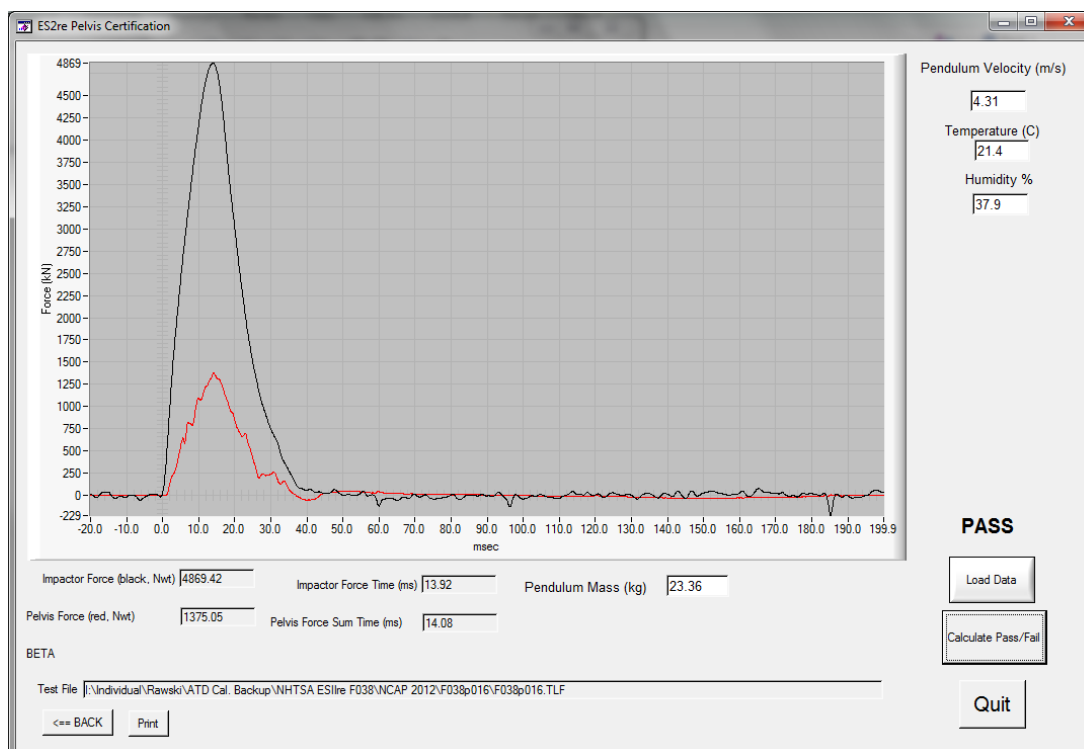


TABLE 1
EXTERNAL MEASUREMENTS (SID-IIs)

SIDIs Serial Number	298	Test Sequences		5 & 6	
TEST PARAMETER	SPEC.	PRE		POST	
Date	-	1/17/12		3/19/12	
Sequential Test Number	-	5		6	
		Result	Pass/Fail	Result	Pass/Fail
Temperature (°C)	20.6-22.2	20.8	Pass	21.1	Pass
Relative Humidity (%)	10-70	21.2	Pass	40.1	Pass
Sitting Height	772 – 788	774	Pass	773	Pass
Shoulder Pivot Height	437 – 453	443	Pass	442	Pass
H-Point Height	79 – 89	86	Pass	87	Pass
H-Point from Seat Back	141 – 151	145	Pass	147	Pass
Shoulder Pivot from Backline	97 – 107	100	Pass	102	Pass
Thigh Clearance	119 – 135	121	Pass	123	Pass
Head Breadth	140 – 148	142	Pass	143	Pass
Head Back from Backline	40 – 46	43	Pass	43	Pass
Head Depth	178 – 188	181	Pass	182	Pass
Head Circumference	541 – 551	542	Pass	542	Pass
Buttock to Knee Length	514 – 540	521	Pass	520	Pass
Popliteal Height	343 – 369	345	Pass	346	Pass
Knee Pivot to Floor Height	392 – 409	402	Pass	405	Pass
Buttock Popliteal Length	416 – 442	432	Pass	434	Pass
Chest Depth w/o Jacket	195 – 211	208	Pass	207	Pass
Foot Length	216 – 232	219	Pass	219	Pass
Hip Breadth	313 – 323	316	Pass	318	Pass
Arm Length	249 – 259	254	Pass	255	Pass
Knee Joint to Seat Back	477 – 493	485	Pass	488	Pass
Shoulder Width	341 – 357	351	Pass	353	Pass
Foot Width	78 – 94	84	Pass	84	Pass
Chest Circumference w/Jacket	851 – 881	854	Pass	855	Pass
Waist Circumference	761 – 791	780	Pass	784	Pass

TABLE 2
HEAD DROP TEST (SID-IIs)

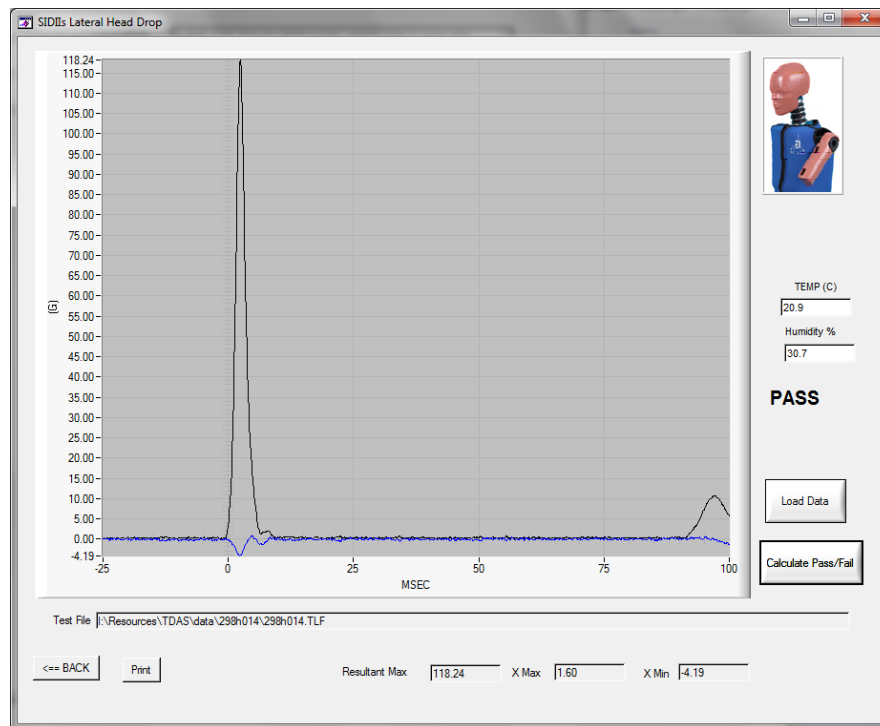
SIDIs Serial Number 298

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/12/12		3/15/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Head Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.5	Pass
	Min		20.6	Pass	20.8	Pass
Humidity(%) – During Soak	Max	10.0-70.0	30.7	Pass	37.2	Pass
	Min		25.9	Pass	31.1	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.5	Pass
Humidity – During Test (%)		10-70	30.7	Pass	37.2	Pass
Peak Head Resultant Acceleration (G)		115-137	118.2	Pass	122.4	Pass
Peak Head X Acceleration (G)		<15	1.6	Pass	2.2	Pass
Unimodal (Oscillation) (Yes/No)		<15%	-	Yes	-	Yes

TABLE 2
HEAD DROP TEST (SID-II_s) (CONTINUED)

PRE-TEST



POST-TEST

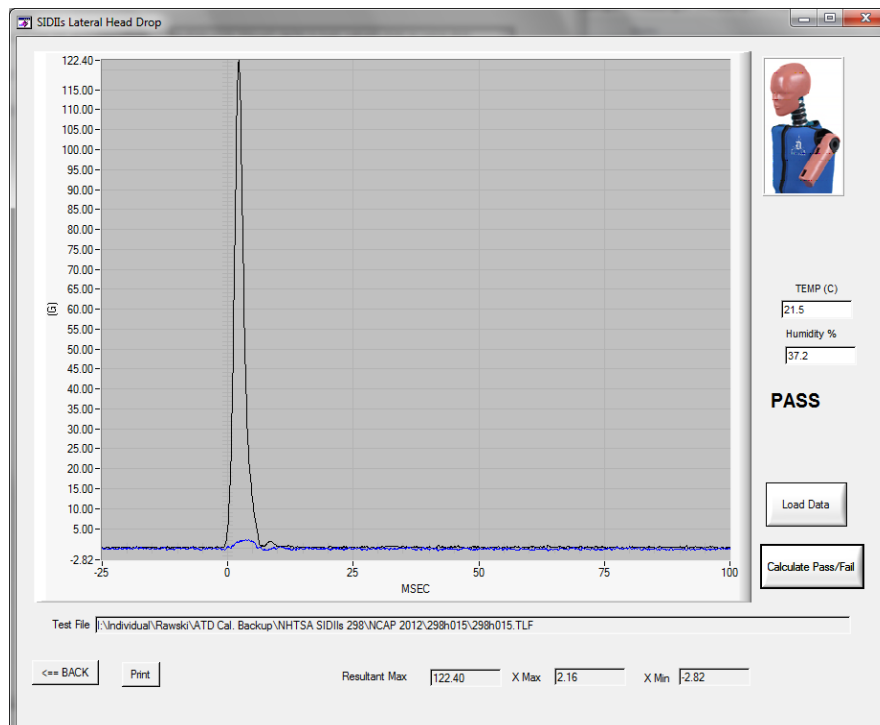


TABLE 3
LATERAL NECK PENDULUM TEST (SID-IIs)

SIDIs Serial Number 298

Test Sequences 5 & 6

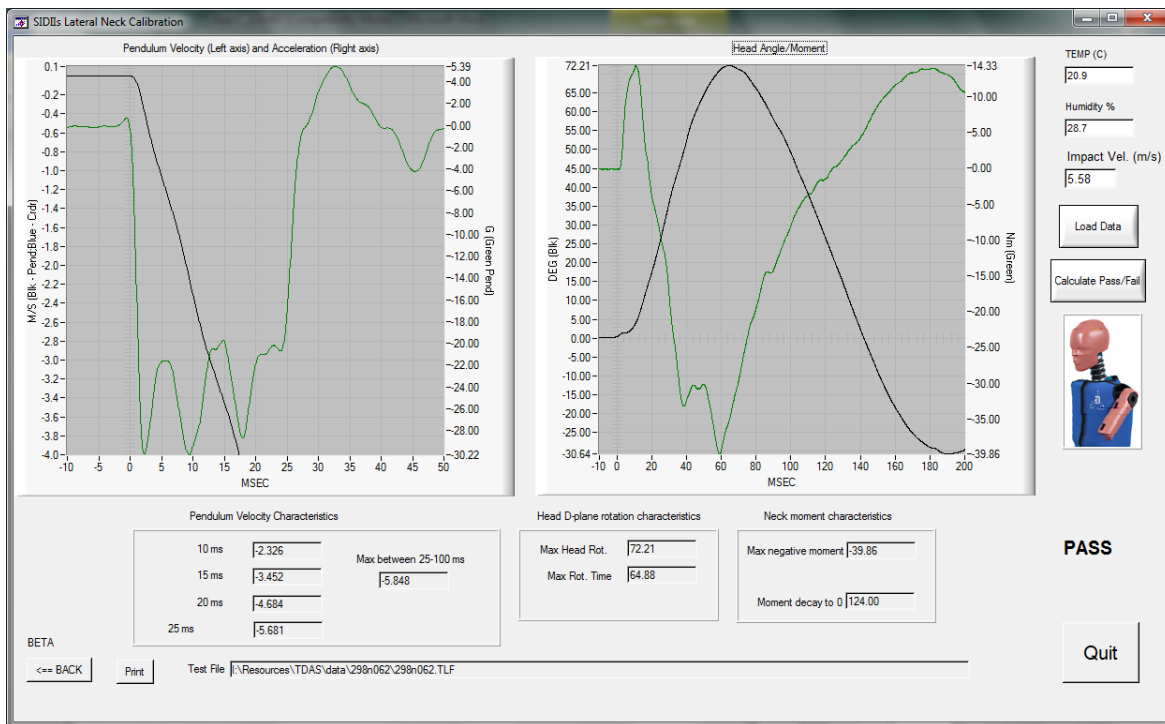
TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/12/12		3/17/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Neck Assembly Soak Time (min)		≥ 240	240	Pass	240	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	20.9	Pass	21.0	Pass
	Min		20.6	Pass	20.8	Pass
Humidity(%) – During Soak	Max	10.0-70.0	30.7	Pass	37.1	Pass
	Min		25.9	Pass	32.6	Pass
Temperature – During Test (°C)		20.6-22.2	20.9	Pass	21.0	Pass
Humidity – During Test (%)		10-70	28.7	Pass	37.1	Pass
Pendulum Velocity (m/s)		5.51-5.63	5.58	Pass	5.63	Pass
Pendulum Deceleration (G)	10 ms	2.20-2.80	2.33	Pass	2.60	Pass
	15 ms	3.30-4.10	3.45	Pass	3.88	Pass
	20 ms	4.40-5.40	4.68	Pass	5.27	Pass
	25 ms	5.40-6.10	5.68	Pass	5.88	Pass
	25-100 ms	5.50-6.20	5.85	Pass	5.92	Pass
Maximum D-Plane rotation (deg)		71-81	72.2	Pass	72.9	Pass
Time of Maximum D-Plane Rotation (ms)		50-70	64.9	Pass	62.9	Pass
Peak Occ. Condyle Moment (Nm)		36-44	39.9	Pass	-41.2	Pass
Time of Moment Decay (ms)		102-126	124.0	Pass	124.2	Pass

Test Vehicle: 2012 Honda CRV 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

TABLE 3
LATERAL NECK PENDULUM TEST (SID-II_s) (CONTINUED)

PRE-TEST



POST-TEST

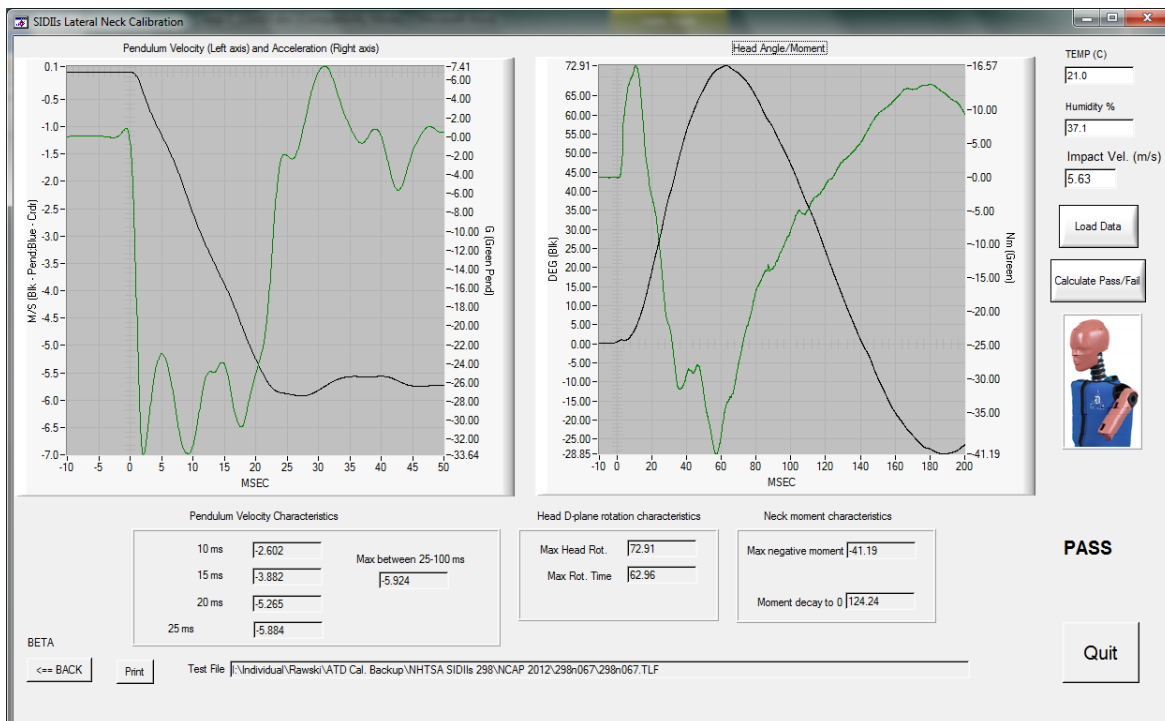


TABLE 4
SHOULDER IMPACT TEST (SID-IIs)

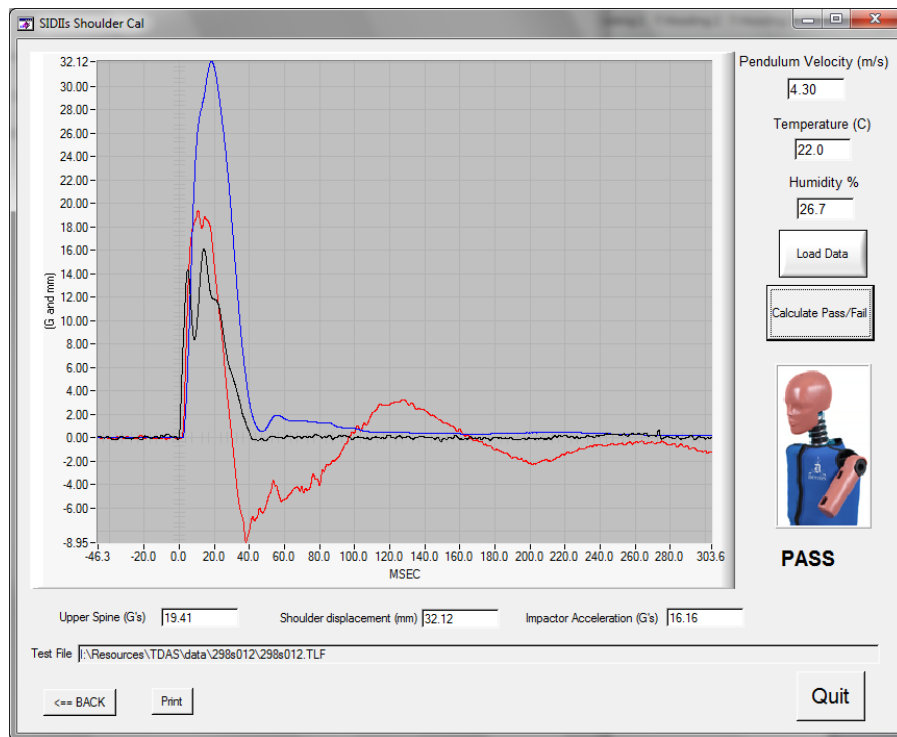
SIDIs Serial Number 298

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/16/12		3/18/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.2	Pass	21.6	Pass
	Min		21.9	Pass	21.0	Pass
Humidity(%) – During Soak	Max	10.0-70.0	31.1	Pass	39.4	Pass
	Min		19.2	Pass	37.8	Pass
Temperature – During Test (°C)		20.6-22.2	22.0	Pass	21.6	Pass
Relative Humidity – During Test (%)		10-70	26.7	Pass	39.4	Pass
Impactor Velocity (m/s)		4.2-4.4	4.3	Pass	4.30	Pass
Peak Shoulder Deflection (mm)		28-37	32.1	Pass	29.8	Pass
Peak Lateral Spine (T1) Acceleration Y (G)		17-22	19.4	Pass	19.9	Pass
Peak Impactor Acceleration (G)		13-18	16.2	Pass	16.6	Pass

TABLE 4
SHOULDER IMPACT TEST (SID-IIIs) (CONTINUED)

PRE-TEST



POST-TEST

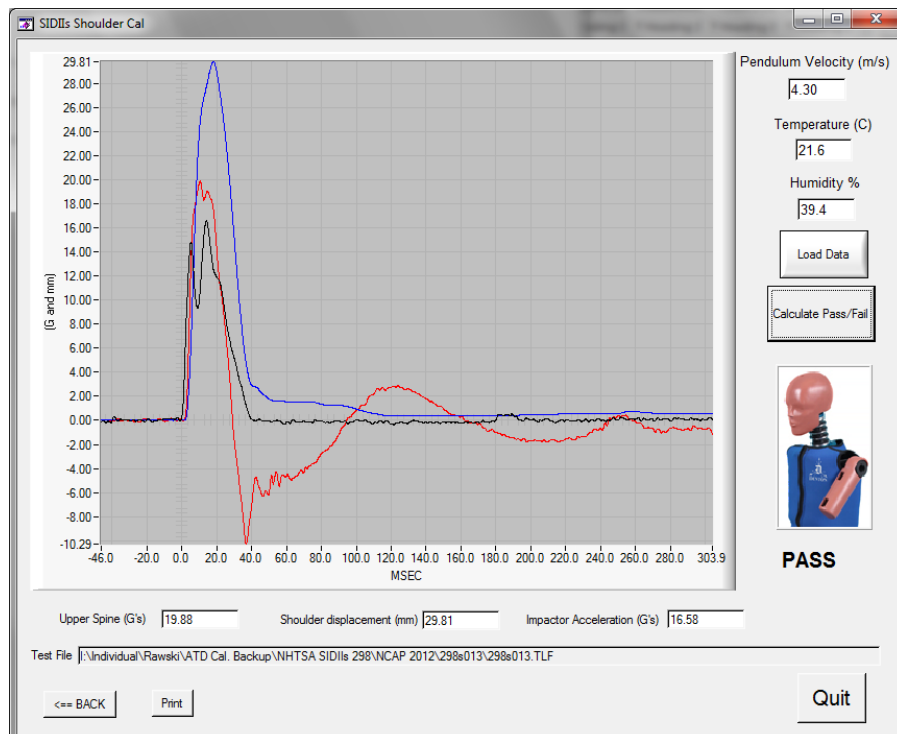


TABLE 5
THORAX (WITH ARM) IMPACT TEST (SID-IIs)

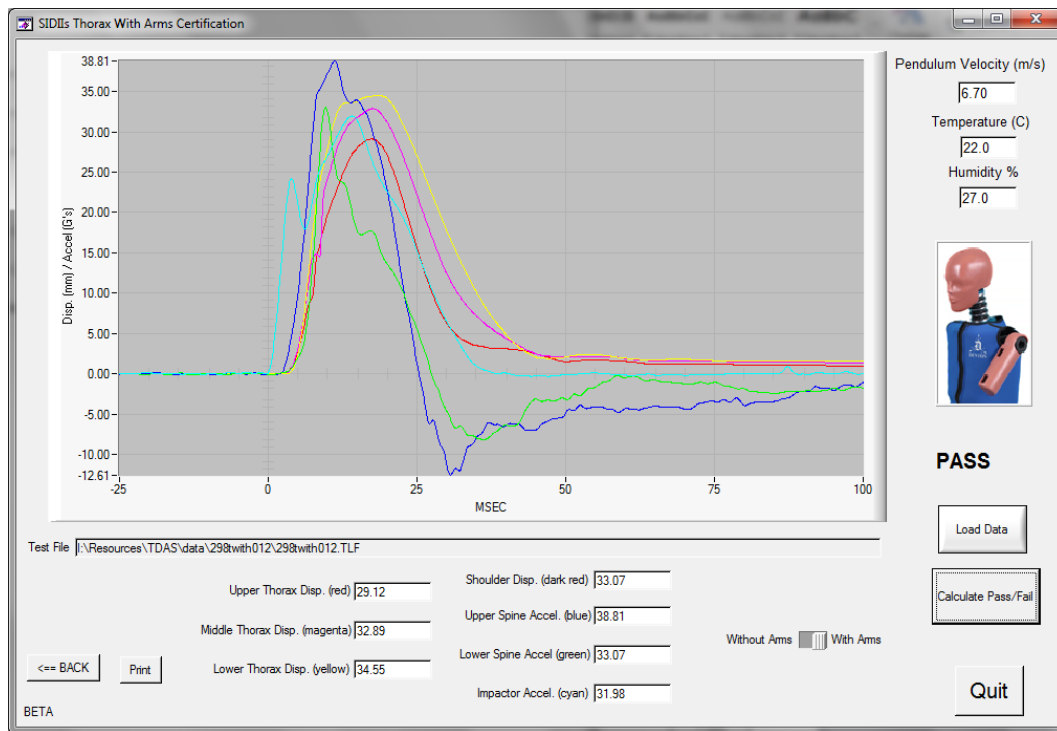
SIDIIs Serial Number 298

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/16/12		3/18/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.2	Pass	21.6	Pass
	Min		21.9	Pass	21.0	Pass
Humidity(%) – During Soak	Max	10.0-70.0	31.1	Pass	39.7	Pass
	Min		19.2	Pass	37.8	Pass
Temperature – During Test (°C)		20.6-22.2	22.2	Pass	21.6	Pass
Relative Humidity – During Test (%)		10-70	27.0	Pass	39.7	Pass
Impactor Velocity (m/s)		6.6-6.8	6.70	Pass	6.70	Pass
Peak Shoulder Deflection (mm)		31-40	33.1	Pass	33.4	Pass
Peak Upper Rib Deflection (mm)		25-32	29.1	Pass	28.6	Pass
Peak Middle Rib Deflection (mm)		30-36	32.9	Pass	31.9	Pass
Peak Lower Rib Deflection (mm)		32-38	34.6	Pass	33.2	Pass
Peak Upper Spine (T1) Acceleration Y (G)		34-43	38.8	Pass	39.3	Pass
Peak Lower Spine (T12) Acceleration Y (G)		29-37	33.1	Pass	33.4	Pass
Peak Impactor Acceleration (G)		30-36	32.1	Pass	33.7	Pass

TABLE 5
THORAX (WITH ARM) IMPACT TEST (SID-IIIs) (CONTINUED)

PRE-TEST



POST-TEST

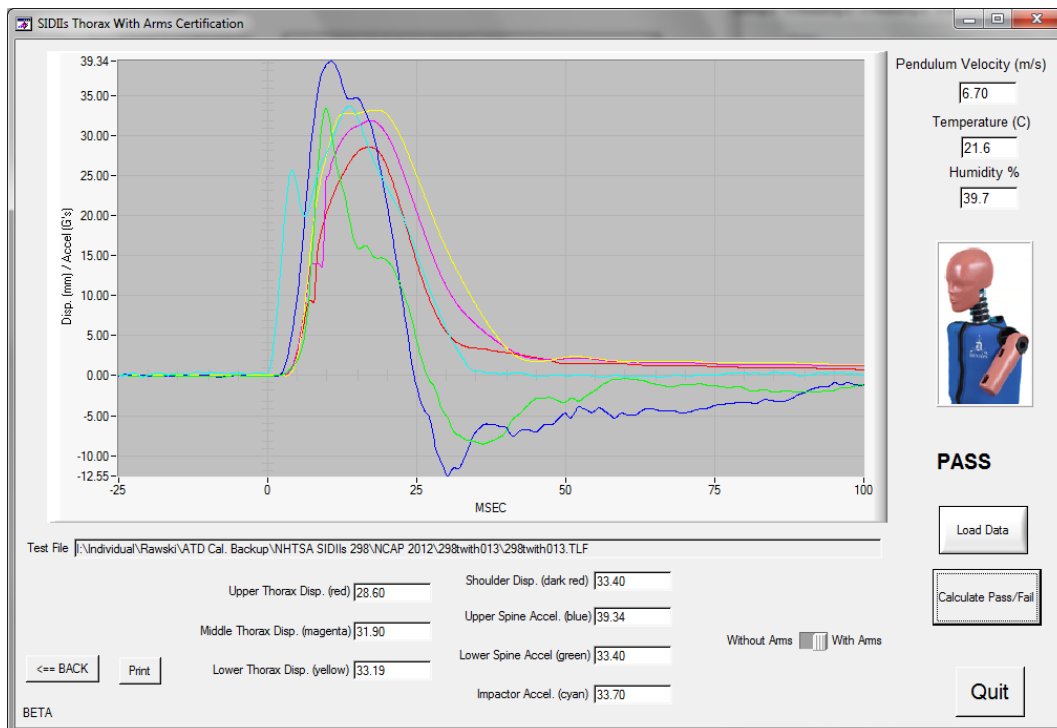


TABLE 6
THORAX (WITHOUT ARM) IMPACT TEST (SID-IIs)

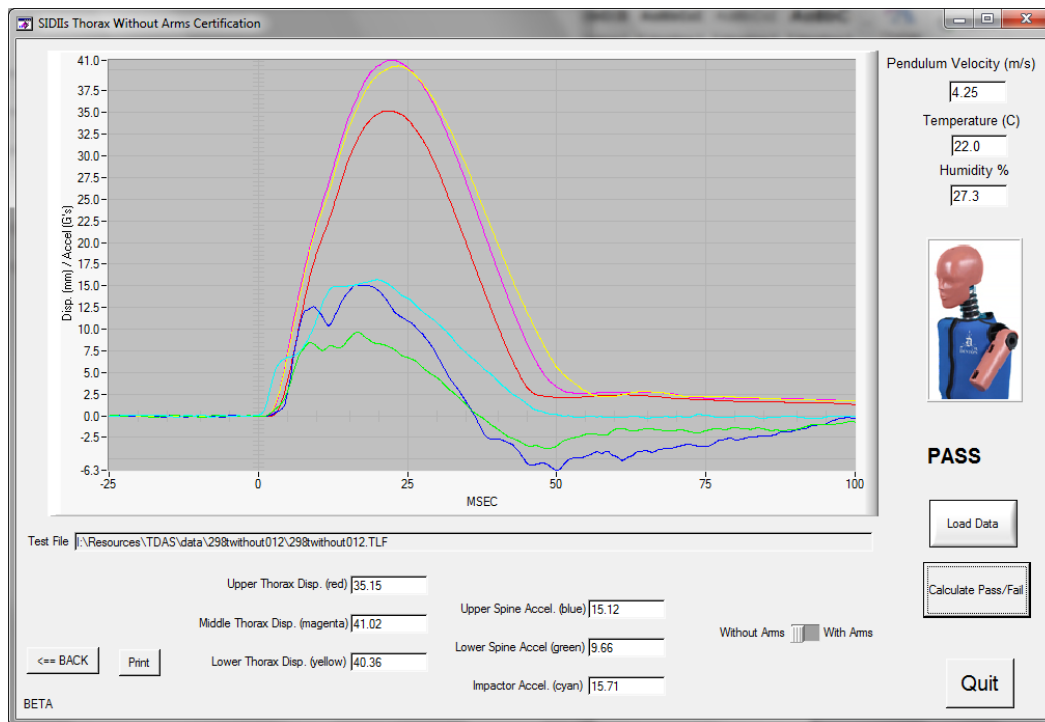
SIDIIs Serial Number 298

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/16/12		3/18/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.2	Pass	21.6	Pass
	Min		21.9	Pass	21.0	Pass
Humidity(%) – During Soak	Max	10.0-70.0	31.1	Pass	39.7	Pass
	Min		19.2	Pass	37.8	Pass
Temperature – During Test (°C)		20.6-22.2	22.0	Pass	21.6	Pass
Relative Humidity – During Test (%)		10-70	27.3	Pass	39.7	Pass
Impactor Velocity (m/s)		4.2-4.4	4.25	Pass	4.25	Pass
Peak Upper Rib Deflection (mm)		32-40	35.2	Pass	36.7	Pass
Peak Middle Rib Deflection (mm)		39-45	41.0	Pass	41.3	Pass
Peak Lower Rib Deflection (mm)		35-43	40.4	Pass	38.9	Pass
Peak Upper Spine (T1) Acceleration Y (G)		13-17	15.1	Pass	15.9	Pass
Peak Lower Spine (T12) Acceleration Y (G)		7-11	9.66	Pass	9.32	Pass
Peak Impactor Acceleration (G)		14-18	15.7	Pass	16.5	Pass

TABLE 6
THORAX (WITHOUT ARM) IMPACT TEST (SID-II_s) (CONTINUED)

PRE-TEST



POST-TEST

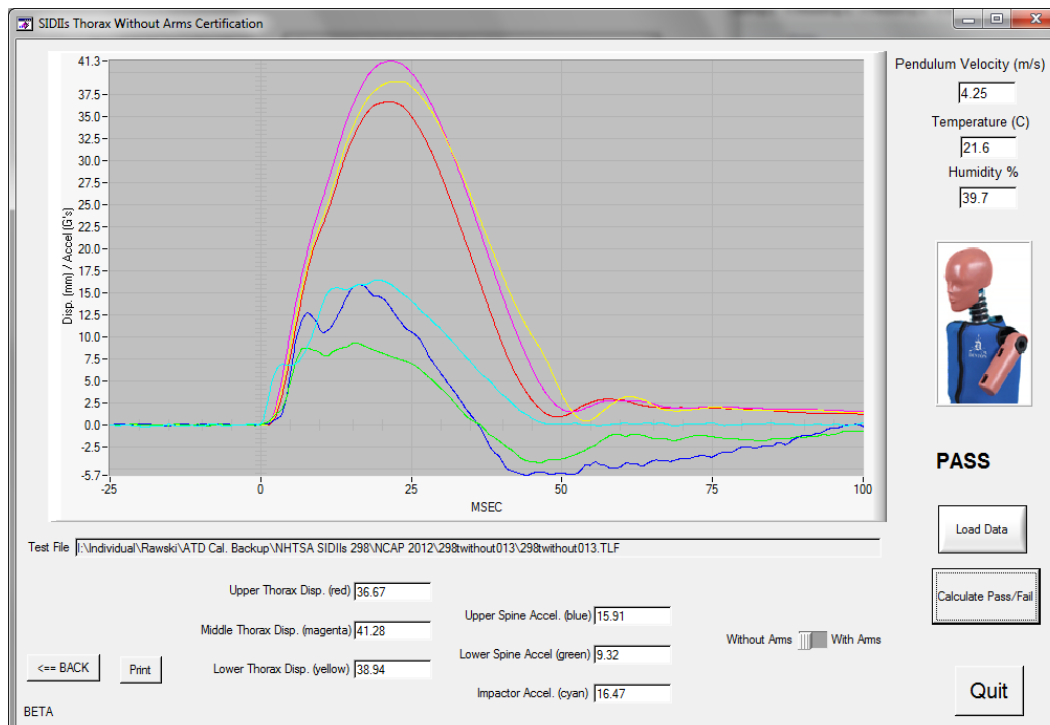


TABLE 7
ABDOMEN IMPACT TEST (SID-IIs)

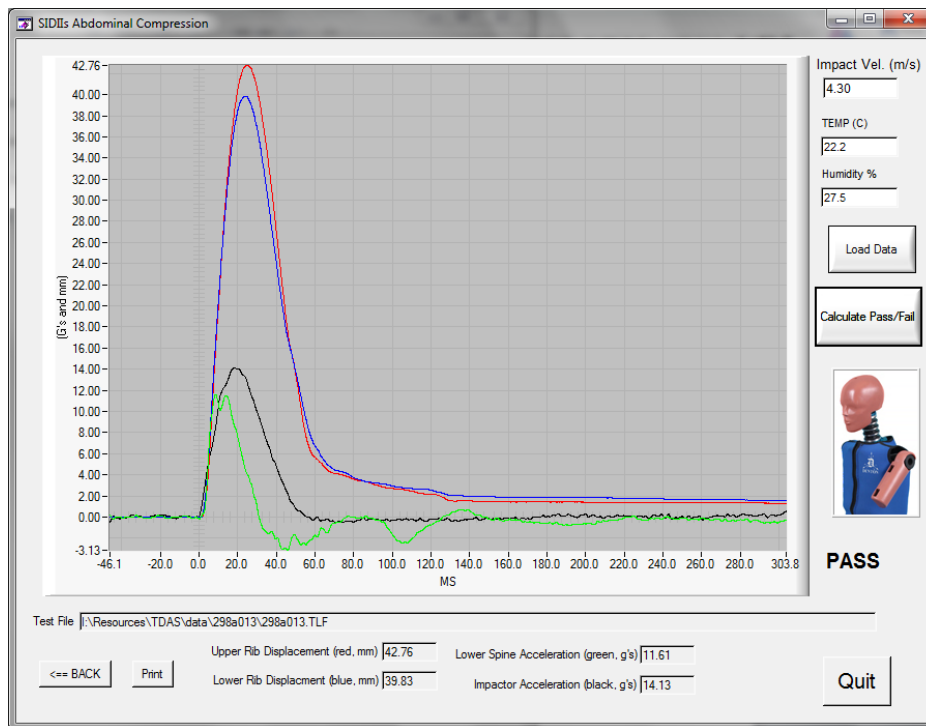
SIDIs Serial Number 298

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/16/12		3/18/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.2	Pass	21.6	Pass
	Min		21.9	Pass	21.0	Pass
Humidity(%) – During Soak	Max	10.0-70.0	31.1	Pass	40.1	Pass
	Min		19.2	Pass	37.8	Pass
Temperature – During Test (°C)		20.6-22.2	22.2	Pass	21.6	Pass
Relative Humidity – During Test (%)		10-70	27.5	Pass	40.1	Pass
Impactor Velocity (m/s)		4.2-4.4	4.3	Pass	4.30	Pass
Peak Upper Abdominal Rib Deflection (mm)		36-47	42.8	Pass	41.4	Pass
Peak Lower Abdominal Rib Deflection (mm)		33-44	39.8	Pass	38.3	Pass
Peak Lower Spine (T12) Acceleration Y (G)		9-14	11.6	Pass	11.8	Pass
Peak Impactor Acceleration (G)		12-16	14.1	Pass	15.1	Pass

TABLE 7
ABDOMEN IMPACT TEST (SID-IIIs) (CONTINUED)

PRE-TEST



POST-TEST

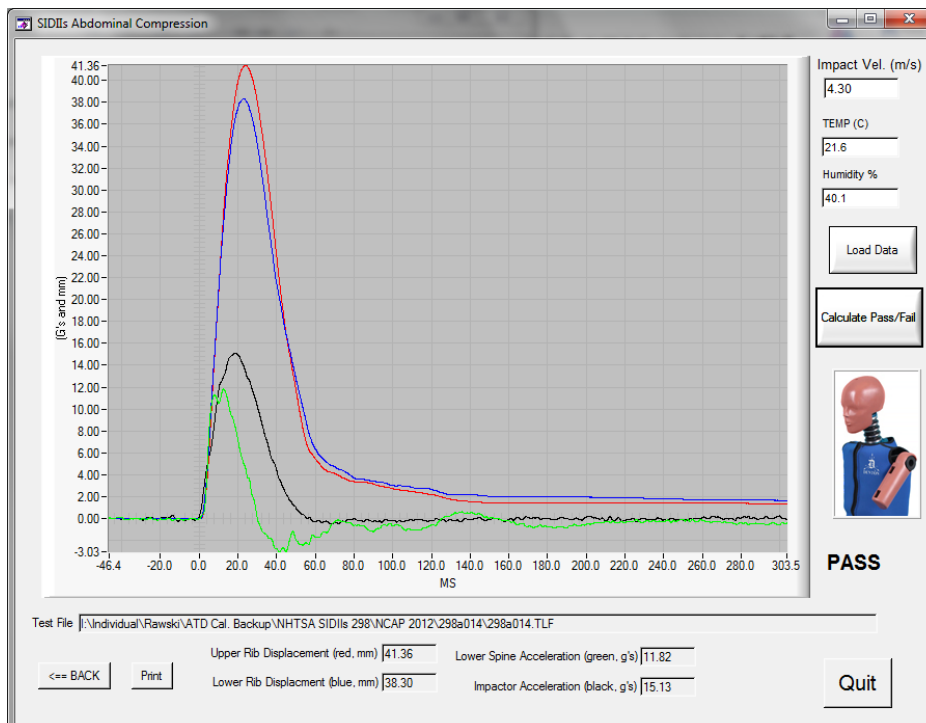
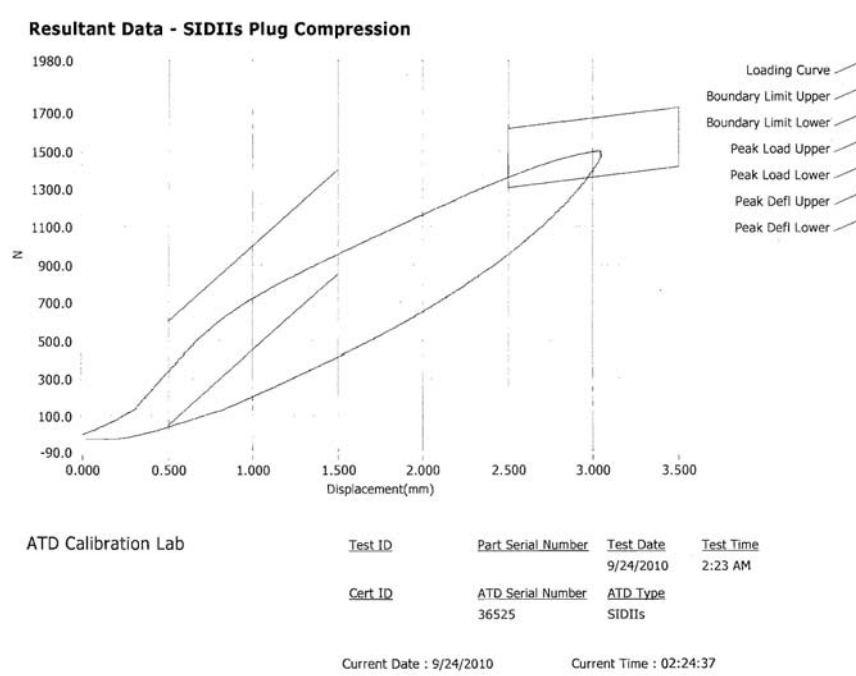


TABLE 8
PELVIS PLUG QUASI-STATIC TEST (SID-IIs)

PRE-Test



POST-TEST

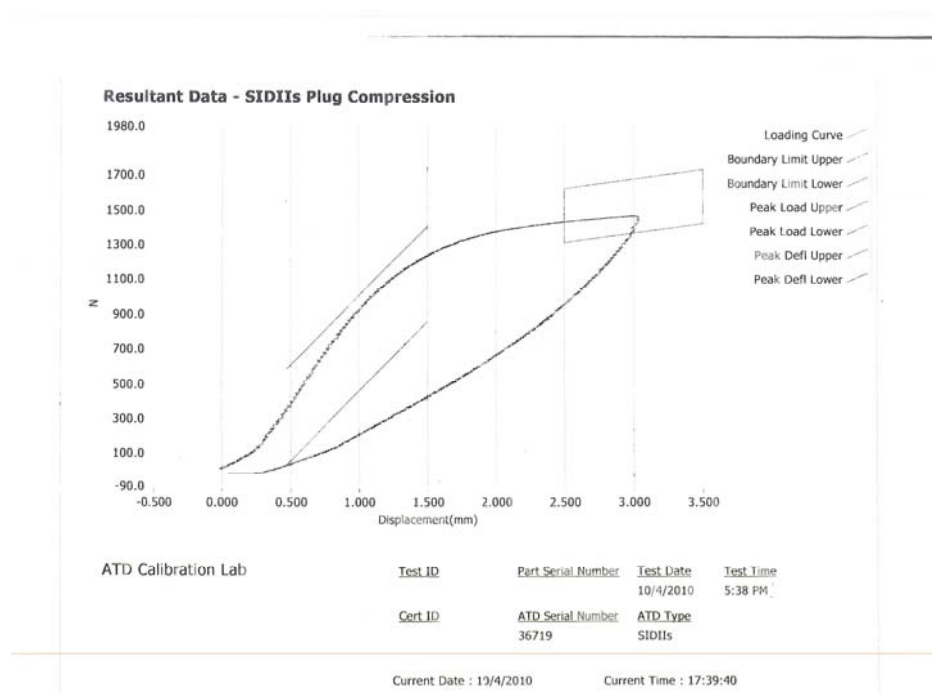


TABLE 9
PELVIS ACETABULUM IMPACT TEST (SID-IIs)

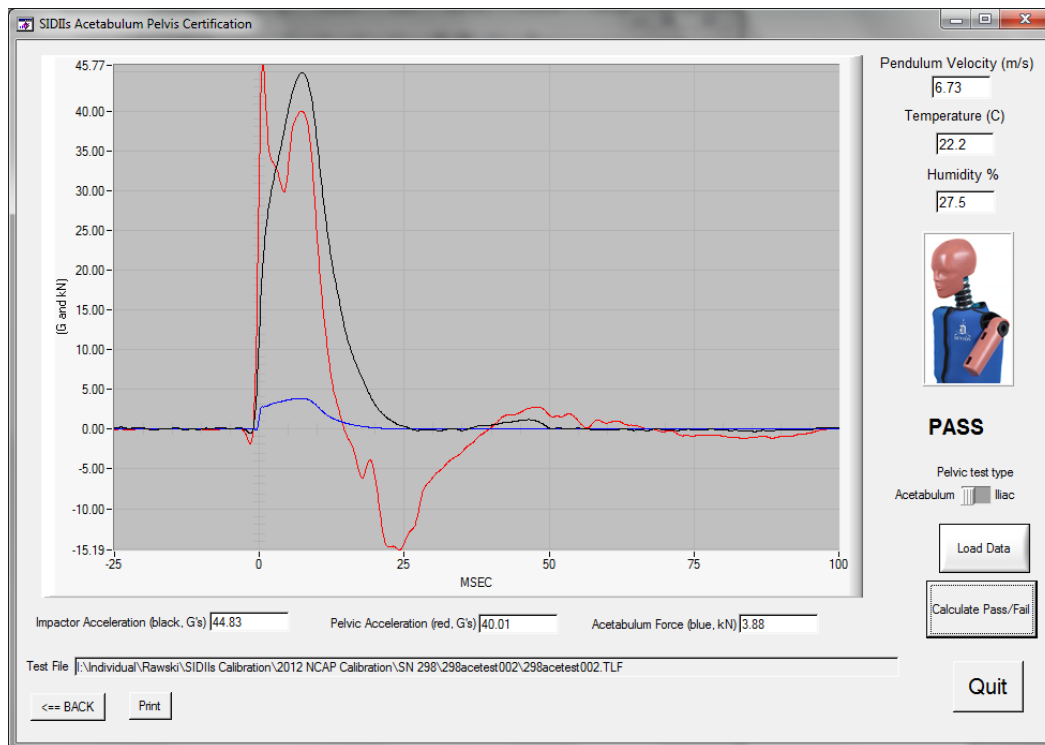
SIDIIs Serial Number 298

Test Sequences 5 & 6

TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/16/12		3/18/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Results	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.2	Pass	21.9	Pass
	Min		21.9	Pass	21.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	31.1	Pass	40.1	Pass
	Min		19.2	Pass	39.4	Pass
Temperature – During Test (°C)		20.6-22.2	22.2	Pass	21.9	Pass
Humidity – During Test (%)		10-70	27.5	Pass	40.1	Pass
Impactor Velocity (m/s)		6.6-6.8	6.73	Pass	6.73	Pass
Peak Impactor Acceleration (G)		38-47	43.8	Pass	45.1	Pass
Pelvis Acceleration Y after 6ms (G)		34-42	40.7	Pass	41.3	Pass
Peak Acetabulum Force (kN)		3.60-4.30	3.84	Pass	3.96	Pass
Pelvis Plug Serial No. 36525 (Pre) No. 36719 (Post)						

TABLE 9
PELVIS ACETABULUM IMPACT TEST (SID-IIIs) (CONTINUED)

PRE-TEST



POST-TEST

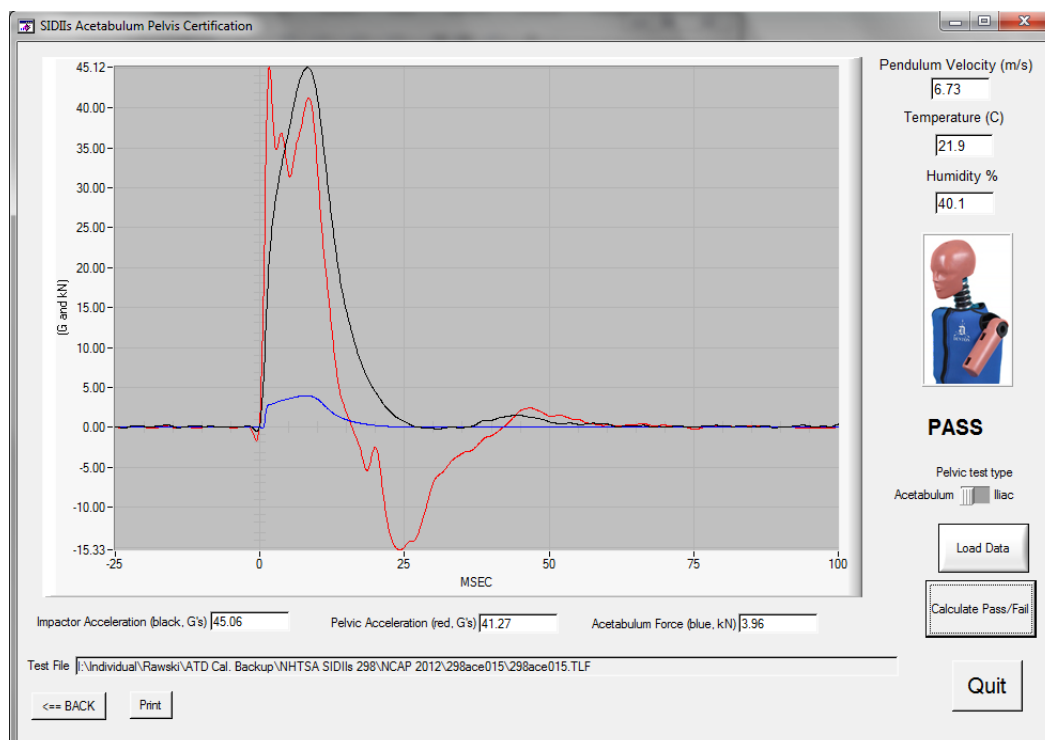


TABLE 10
PELVIS ILIAC IMPACT TEST (SID-IIs)

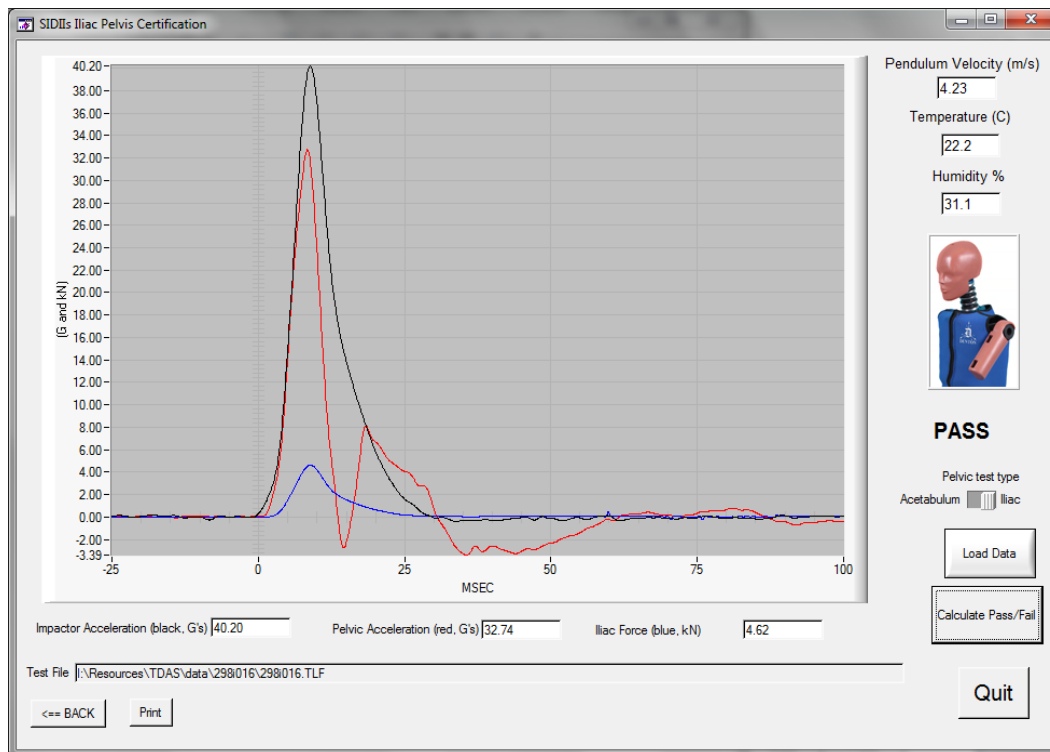
SIDIs Serial Number 298

Test Sequences 5 & 6

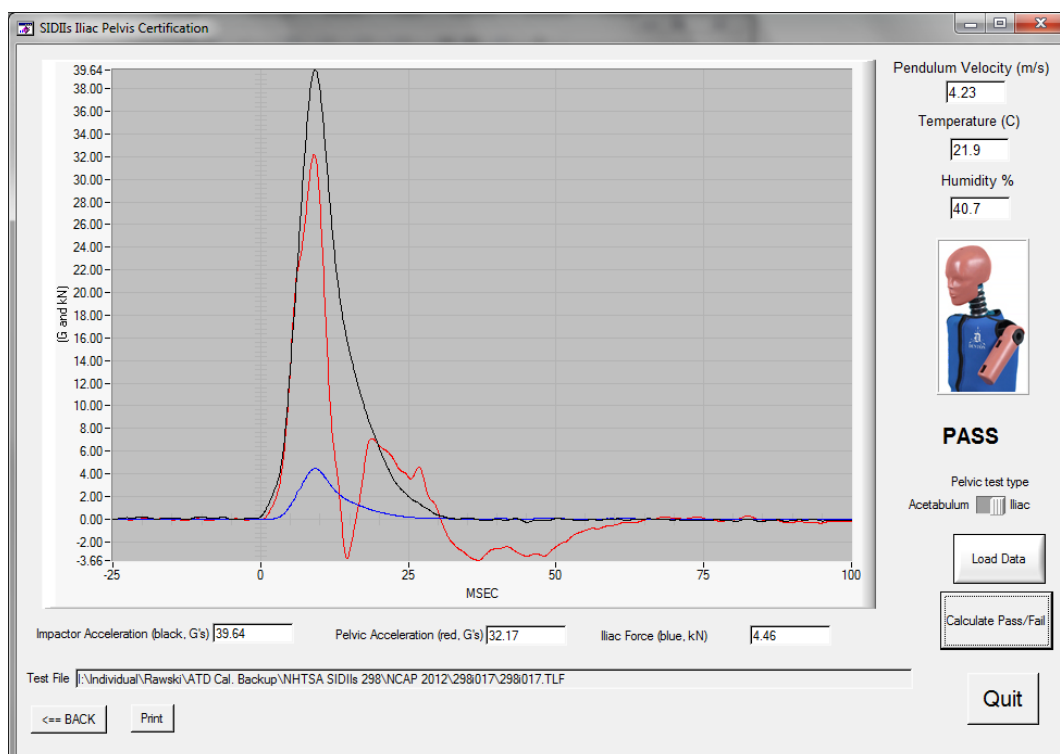
TEST PARAMETER		SPEC.	PRE		POST	
Date		-	1/16/12		3/18/12	
Sequential Test Number		-	5		6	
			Result	Pass/Fail	Result	Pass/Fail
Dummy Soak Time (min)		≥ 180	180	Pass	180	Pass
Temperature(°C) – During Soak	Max	20.6-22.2	22.2	Pass	21.9	Pass
	Min		21.9	Pass	21.6	Pass
Humidity(%) – During Soak	Max	10.0-70.0	31.1	Pass	40.7	Pass
	Min		19.2	Pass	39.4	Pass
Temperature – During Test (°C)		20.6-22.2	22.2	Pass	21.9	Pass
Humidity – During Test (%)		10-70	31.1	Pass	40.7	Pass
Pendulum Velocity (m/s)		4.2-4.4	4.23	Pass	4.23	Pass
Peak Impactor Acceleration (G)		36-45	40.2	Pass	39.6	Pass
Pelvis Acceleration Y (G)		28-39	32.7	Pass	32.2	Pass
Peak Iliac Force Y (N)		4.10-5.10	4.62	Pass	4.46	Pass
Pelvis Plug Serial No. 36525 (Pre) No. 36719 (Post)						

TABLE 10
PELVIS ILIAC IMPACT TEST (SID-IIIs) (CONTINUED)

PRE-TEST



POST-TEST



Test Vehicle: 2012 Honda CR-V 5-Door SUV
Test Program: SINCAP

NHTSA Number: MC 5304
Test Date: March 13, 2012

APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA

TABLE 1 - DUMMY INSTRUMENTATION – ES-IIre					
			ES-IIre S/N: F038		
			Serial Number	Manufacturer	Calibration Date
Head Accelerometers		X	J43494	Endevco	25/APR/2011
		Y	J43475	Endevco	25/APR/2011
		Z	J43779	Endevco	25/APR/2011
		X _R	J21551	Endevco	25/APR/2011
		Y _R	J43432	Endevco	25/APR/2011
		Z _R	12104	Endevco	25/APR/2011
Thoracic Rib Displacement Potentiometers	Upper	Y	433	Denton	08/APR/2011
	Middle	Y	193	Denton	08/APR/2011
	Lower	Y	191	Denton	08/APR/2011
Abdomen Load Cells	Forward	Y	1502	Denton	07/APR/2011
	Middle	Y	1511	Denton	07/APR/2011
	Rear	Y	1537	Denton	07/APR/2011
Lower Spine Accelerometers (T ₁₂)		X	12112	Endevco	25/APR/2011
		Y	P21586	Endevco	25/APR/2011
		Z	P21580	Endevco	25/APR/2011
Pubic Symphosis Load Cell		Y	460	Denton	08/DEC/2010

TABLE 2 - DUMMY INSTRUMENTATION – SID-IIs						
			SID-IIs S/N: 298			
			Serial Number	Manufacturer	Calibration Date	
Head Accelerometers		X	P22041	Endevco	25/APR/2011	
		Y	P24562	Endevco	25/APR/2011	
		Z	P22322	Endevco	25/APR/2011	
		X _R	P24124	Endevco	25/APR/2011	
		Y _R	P21575	Endevco	25/APR/2011	
		Z _R	12132	Endevco	25/APR/2011	
Displacement Potentiometers	Shoulder		Y	1095	FTSS	07/APR/2011
	Thoracic Rib	Upper	Y	1181	Denton	07/APR/2011
		Middle	Y	1203	Denton	07/APR/2011
		Lower	Y	486	Denton	07/APR/2011
	Abdominal Rib	Upper	Y	717	Denton	07/APR/2011
		Lower	Y	1215	Denton	07/APR/2011
Lower Spine Accelerometers (T ₁₂)		X	P21661	Endevco	25/APR/2011	
		Y	P24682	Endevco	25/APR/2011	
		Z	P21788	Endevco	25/APR/2011	
Acetabulum Load Cell		Y	270	Denton	07/APR/2011	
Iliac Wing Load Cell		Y	283	Denton	07/APR/2011	
Pelvis Plug (Struck-Side)			36525	FTSS	22/SEP/11	
Pelvis Plug (Non-Struck-Side)			36388	FTSS	23/SEP/11	

TABLE 3 - VEHICLE INSTRUMENTATION					
			Serial Number	Manufacturer	Calibration Date
1	Vehicle Center of Gravity	X	A011321	MSI	22/SEP/2011
	Vehicle Center of Gravity	Y	A011312	MSI	22/SEP/2011
	Vehicle Center of Gravity	Z	A011331	MSI	22/SEP/2011
2	Right Sill at Front Seat	X	12110	Endevco	22/SEP/2011
	Right Sill at Front Seat	Y	A011343	MSI	22/SEP/2011
	Right Sill at Front Seat	Z	A011334	MSI	22/SEP/2011
3	Right Sill at Rear Seat	X	P21689	Endevco	22/SEP/2011
	Right Sill at Rear Seat	Y	P24138	Endevco	22/SEP/2011
	Right Sill at Rear Seat	Z	P25041	Endevco	22/SEP/2011
4	Left Sill at Front Door	Y	A011655	MSI	22/SEP/2011
5	Left Sill at Rear Door	Y	A086986	MSI	22/SEP/2011
6	Left A-Post Lower	Y	A086972	MSI	22/SEP/2011
7	Left A-Post Middle	Y	A086968	MSI	30/NOV/2011
8	Left B-Post Lower	Y	A086978	MSI	30/NOV/2011
9	Left B-Post Middle	Y	A086980	MSI	30/NOV/2011
10	Front Seat Track	Y	A086967	MSI	22/SEP/2011
11	Rear Seat Track or Structure	Y	A086976	MSI	22/SEP/2011
12	Right Rear Occ. Compartment	Y	A011102	MSI	22/SEP/2011
13	Engine Block	X	P12746	Endevco	22/SEP/2011
	Engine Block	Y	P13835	Endevco	22/SEP/2011
14	Rear Floorpan Above Axle	X	A010890	MSI	22/SEP/2011
	Rear Floorpan Above Axle	Y	A011335	MSI	22/SEP/2011
	Rear Floorpan Above Axle	Z	98F98E11-K07	Endevco	22/SEP/2011

TABLE 4 - MDB INSTRUMENTATION				
		Serial Number	Manufacturer	Calibration Date
MDB Center of Gravity	X	12115	Endevco	13/OCT/2011
MDB Center of Gravity	Y	12149	Endevco	13/OCT/2011
MDB Center of Gravity	Z	P21898	Endevco	13/OCT/2011
Left Frame at Rear Axle Centerline	X	P22339	Endevco	13/OCT/2011
Left Frame at Rear Axle Centerline	Y	P22539	Endevco	13/OCT/2011