

**FINAL REPORT NUMBER: SINCAP-TRC-25-004**

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

**GENERAL MOTORS LLC  
2025 Chevrolet Tahoe  
NHTSA NUMBER: M20250109**

**PREPARED BY:  
Transportation Research Center Inc.  
10820 State Route 347  
P. O. Box B-67  
East Liberty, OH 43319**



**Report Date: October 13, 2025**

**FINAL REPORT**

**PREPARED FOR:  
U.S. DEPARTMENT OF TRANSPORTATION  
National Highway Traffic Safety Administration  
Office of Crashworthiness Standards  
Mail Code: NRM-110  
1200 New Jersey Ave, SE  
Washington, D.C. 20590**

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Report Prepared By: ILO Project Operations Group

Report Approved By: 

John Shultz

Approval Date: October 13, 2025

FINAL REPORT ACCEPTANCE BY OCWS:

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

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

Technical Report Documentation Page

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15. Supplemental Notes																											
16. Abstract This 55 / 28 km/h 90° Moving Deformable Barrier SINCAP Side Impact Test was conducted on the subject 2025 Chevrolet Tahoe, in accordance with the specifications of the Office of Crashworthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. This test was conducted by Transportation Research Center Inc. in East Liberty, Ohio, on May 1, 2025. The impact velocity of the Moving Deformable Barrier (MDB) was 62.39 km/h, and the ambient temperature at the struck (left) side of the target vehicle at the time of impact was 21.0° C. The target vehicle post-test maximum crush was 102 mm at Level 1. The test vehicle's performance was as follows:																											
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The doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.																											
17. Key Words New Car Assessment Program (NCAP) Side Impact MDB ES-2re SID-IIs		18. Distribution Statement Copies of this report are available from: National Highway Traffic Safety Administration Technical Information Services Division 1200 New Jersey Ave, SE Washington, DC 20590																									
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**SECTION 1**  
**TEST PURPOSE AND PROCEDURE**

**TEST PURPOSE AND PROCEDURE**

This moving deformable barrier side impact test was conducted as part of the MY 2025 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. 693JJ920D000018. The purpose of this test is to generate comparative side impact performance in a 2025 Chevrolet Tahoe. The side impact test was conducted in accordance with the Office of Crashworthiness Standard's Laboratory Test Procedure dated March 2020.

**SECTION 2**  
**SUMMARY OF TEST RESULTS**

A 2025 Chevrolet Tahoe 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 62.39 km/h (38.77 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 Transportation Research Center Inc. in East Liberty, Ohio, on May 1, 2025. Pre-test and post-test photographs of the test vehicle and the MDB and the dummies (ES-2-re 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 March 2020. 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 triaxial 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

APPENDIX B contains the vehicle and dummy response data. Dummy configuration and performance verification data can be found in APPENDIX C of this report. APPENDIX D of this report contains the test equipment and instrumentation calibration data.

Dummy injury readings were recorded as follows:

Measurement Description	Driver ATD (ES-2-re)		
	Units	Threshold	Result
Head Injury Criteria (HIC <sub>36</sub> )	N/A	1000	29.850
Maximum Thoracic Rib Deflection	mm	44	16.080
Combined Abdominal Force	N	2500	429.970
Pubic Symphysis Force	N	6000	-619.080
Lower Spine (T12) Resultant Acceleration <sup>1</sup>	G	82*	20.890

\* Proposed IARV

Measurement Description	Passenger ATD (SID-IIs)		
	Units	Threshold	Result
Head Injury Criteria (HIC <sub>36</sub> )	N/A	1000	81.420
Lower Spine (T12) Resultant Acceleration	G	82	25.450
Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	1272.000
Maximum Thoracic Rib Deflection	mm	38*	5.050
Maximum Abdominal Rib Deflection	mm	45*	8.780

\* Proposed IARV

Supplemental Restraint Information is given below:

Restraint Type	Left Front (Driver) Occupant Location 1		Left Rear (Passenger) Occupant Location 4	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No		
Side Curtain Airbag	Yes	Yes	Yes	Yes
Side Torso/Pelvis Airbag	Yes	Yes	No	N/A
Side Pelvis Airbag	No	N/A	No	N/A
Knee Airbag	Yes	No	No	N/A
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes	No	Yes	No
Other: Front Center Airbag	Yes	Yes	No	N/A

### GENERAL COMMENTS

All doors remained closed throughout the test. No fuel spillage occurred during the impact or the static rollover test which followed. Injury values for both ATDs were within the established performance thresholds.

LEFT SIDE SILL AT FRONT SEAT AY; QD after 11.9

LEFT SIDE SILL AT REAR SEAT AY; CF 25

LEFT LOWER A-PILLAR AY; CF 22

**SECTION 3  
OCCUPANT AND VEHICLE INFORMATION**

**DATA SHEET NO. 1  
GENERAL TEST AND VEHICLE PARAMETER DATA**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025

**TEST VEHICLE INFORMATION AND OPTIONS**

NHTSA No.	M20250109
Model Year	2025
Make	Chevrolet
Model	Tahoe
Body Style	MPV
VIN	1GNS5MRD3SR163786
Body Color	Black
Odometer Reading (km/mi)	6
Engine Displacement (L)	5.3
Type/No. Cylinders	V8
Engine Placement	Inline
Transmission Type	Automatic
Transmission Speeds	10
Overdrive	Yes
Final Drive	RWD
Roof Rack	No
Sunroof/T-Top	No
Running Boards	Yes
Tilt Steering Wheel	Yes
Power Seats	Yes
Anti-Lock Brakes (ABS)	Yes

Traction Control System (TCS)	Yes
Auto-Leveling System	Yes
Automatic Door Locks (ADL)	Yes
Power Window Auto-Reverse	Yes
Other Optional Feature	N/A
Driver Front Airbag	Yes
Driver Curtain Airbag	Yes
Driver Head/Torso Airbag	No
Driver Torso Airbag	No
Driver Torso/Pelvis Airbag	Yes
Driver Pelvis Airbag	No
Driver Knee Airbag	No
Rear Pass. Curtain Airbag	Yes
Rear Pass. Head/Torso Airbag	No
Rear Pass. Torso Airbag	No
Rear Pass. Torso/Pelvis Airbag	No
Rear Passenger Pelvis Airbag	No
Driver Seat Belt Pretensioner	Yes
Rear Pass. Seat Belt Pretensioner	Yes
Driver Load Limiter	Yes
Rear Passenger Load Limiter	Yes
Other: Center Seat Airbag	Yes

Does owner's manual provide instructions to turn off automatic door locks? No

**DATA FROM CERTIFICATION LABEL**

Manufactured By	GENERAL MOTORS LLC
Date of Manufacture	12/24
Vehicle Type	MPV

GVWR (kg)	3357
GAWR Front (kg)	1678
GAWR Rear (kg)	1950

**VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION**

Measured Parameter	Front	Rear	Third	Total
Designated Seating Capacity (DSC)	2	3	3	8
Capacity Weight (VCW) (kg)				804.0
DSC x 68 (kg)				544.0
Cargo Weight (RCLW) (kg)				260.0

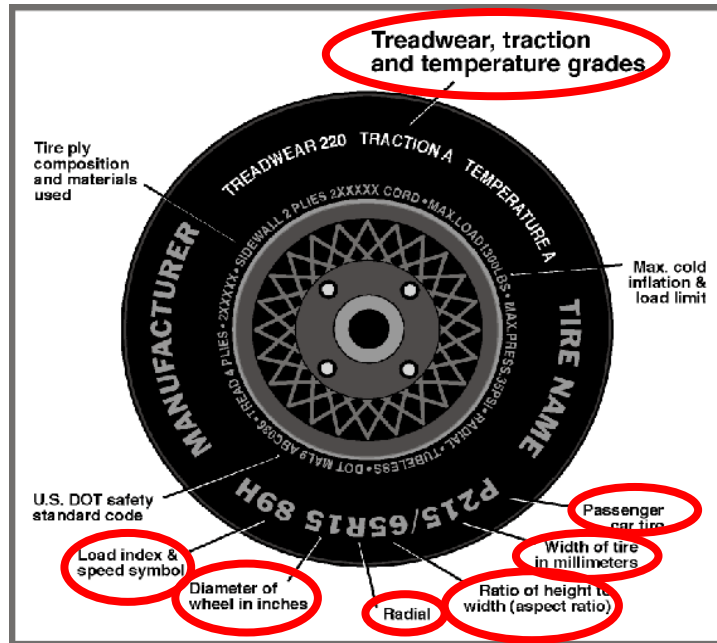
**VEHICLE SEAT TYPE**

Seating Location	Type of Seat Pan				Type of Seat Back		
	Bucket	Bench	Split Bench	Contoured	Fixed	Adjustable	
						w/ Lever	w/ Knob
Front Seat	Yes	N/A	N/A		N/A	Yes	N/A
Rear or Second Row Seat	N/A	N/A	Yes	N/A	N/A	Yes	N/A
Third Row Seat	N/A	N/A	Yes	N/A	N/A	Yes	N/A

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

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
 Test Date: 5/1/2025



**DATA FROM TIRE PLACARD**

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	300	300
Cold Pressure (kPa)	240	240
Recommended Tire Size	275/60R20	275/65R20
Tire Size on Vehicle	275/65R20	275/65R20
Tire Manufacturer	Continental	Continental
Tire Model	CrossContact LX20	CrossContact LX20
Treadwear	740	740
Traction	A	A
Temperature Grades	B	B
Tire Plies Sidewall	2	2
Tire Plies Body	5	5
Load Index/Speed Symbol	115 T	115 T
Tire Material	Polyester, Steel, Polyamide	Polyester, Steel, Polyamide
DOT Safety Code Left	1A3 OF9EU1 4224	1A3 OF9EU1 4224
DOT Safety Code Right	1A3 OF9EU1 4124	1A3 OF9EU1 4224

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

Test Vehicle: 2025 Chevrolet Tahoe  
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**TIRE PRESSURES**

	Units	LF	RF	LR	RR
As Delivered	kPa	275	275	275	275
Tire Placard	kPa	240	240	240	240
Owner's Manual	kPa	240	240	240	240
As Tested	kPa	240	240	240	240

**MDB TIRE SPECIFICATIONS**

	Units	Requirement	LF	RF	LR	RR
Tire Size		P205/75R15	P205/75R15	P205/75R15	P205/75R15	P205/75R15
Tire Pressure	kPa	200 ± 21 kPa	207	207	207	207

**TEST VEHICLE AXLE WEIGHTS**

	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	599.2	654.2		664.6	762.4		649.0	786.8	
Right	kg	650.0	606.2		632.8	702.4		630.4	704.4	
Ratio	%	49.8	50.2		47.0	53.0		46.2	53.8	
Totals	kg	1249.2	1260.4	2509.6	1297.4	1464.8	2762.2	1279.4	1491.2	2770.6

**TARGET TEST WEIGHT CALCULATION**

Measured Parameter	Units	Value	
Total As Delivered Weight (UVW)	kg	2509.6	(A)
Actual Weight of 1 P572V ATD (SID-ILs) Dummy Used	kg	125.0	(B)
Rated Cargo/Luggage Weight (RCLW) <sup>1</sup>	kg	136.0	(C)
Calculated Vehicle Target Weight (TVT <sub>W</sub> )	kg	2770.6	(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  NO

**TEST VEHICLE ATTITUDES AND CG**

Measurement Description	Units	Fully Loaded	As Tested	Meets Requirement
LF	mm	944	936	Yes
RF	mm	943	940	Yes
RR	mm	941	938	Yes
LR	mm	934	930	Yes
Vehicle CG (Aft of Front Axle)	mm	1647	1623	
Vehicle CG (Left(+)/Right(-) from Longitudinal Centerline)	mm	+32	+29	

\*\*\*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. Indicate "Yes" or "No" for "Meets Requirement".

Test height adjustable suspension setting, if applicable:

N/A

<sup>1</sup> Rated cargo and luggage weight limited to 136.0 kg or 300.0 lbs

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

Test Vehicle: 2025 Chevrolet Tahoe  
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NHTSA No.: M20250109  
 Test Date: 5/1/2025

**WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW**

Component Description	Weight (kg)
Ballast: Steel plate	106.0
Removed: None	0.0

**TEST SURFACE MARKINGS**

	Distance from 63° Impact Angle Line (mm)
Fore 25 mm target	1000
Aft 25 mm target	990
Pre-Impact Angle Line	260

Parallel Track Target	X Location (mm)	Y Location (mm)
A	0	0
B	1620	3420
C	3985	3420
D	3985	0

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

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
 Test Date: 5/1/2025

**SEAT POSITIONING**

The driver seat, front center seat (if applicable), and right front passenger's seat should be set to the mid-track, lowest, mid-angle position. The struck-side rear passenger's seat, rear center seat, and non-struck side rear passenger's seats should be set to the rear-most, lowest, mid-angle position.

**SCRL ANGLE RANGE**

Seat	SCRL(°)		
	Max.	Min.	Mid
Driver Seat	20.6	15.2	17.9
Front Passenger Seat	18.1	13.9	16.0
Front Center Seat*	N/A	N/A	N/A
Struck Side Rear Seat	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed
Rear Center Seat*	Fixed	Fixed	Fixed

\* If applicable.

**SEAT HEIGHT AND ANGLE**

Seat	As Tested SCRL Angle (Mid) (°)	As Tested SCRP Height (mm)	SCRP Height Position	SCRP Height (mm)		
				Rearmost	Mid-Fore/Aft	Forward-Most
Driver Seat	17.9	250	Max	300	295	295
			Mid	277.5	272.5	272.5
			Min	255	250	250
Front Passenger Seat	16.0	325	Max	N/A	N/A	N/A
			Mid	332	330	325
			Min	N/A	N/A	N/A
Front Center Seat*	N/A	N/A	Max	N/A	N/A	N/A
			Mid	N/A	N/A	N/A
			Min	N/A	N/A	N/A
Struck Side Rear Seat	Fixed	Fixed	Max	N/A	N/A	N/A
			Mid	N/A	N/A	N/A
			Min	N/A	N/A	N/A
Non-Struck Side Rear Seat	Fixed	Fixed	Max	N/A	N/A	N/A
			Mid	N/A	N/A	N/A
			Min	N/A	N/A	N/A
Rear Center Seat*	N/A	N/A	Max	N/A	N/A	N/A
			Mid	N/A	N/A	N/A
			Min	N/A	N/A	N/A

\* If applicable.

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

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
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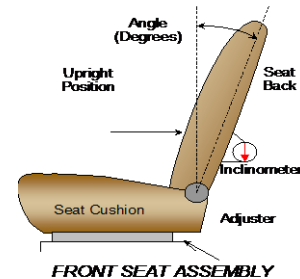
**SEAT FORE/AFT POSITION**

Seat	Total Fore/Aft Travel		Test Position from Forwardmost Position	
	mm	Detents	mm	Detent
Driver Seat	260	Power	130	Power
Front Passenger Seat	260	Power	130	Power
Front Center Seat*	N/A	N/A	N/A	N/A
Struck Side Rear Seat	140	14	140	14
Non-Struck Side Rear Seat	140	14	140	14
Rear Center Seat*	N/A	N/A	N/A	N/A

\* If applicable

**SEAT BACK ANGLE ADJUSTMENT**

The driver's seat back is positioned to the manufacturer's designated seat back 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	Total Seat Back Angle Range		Test Position from Most Upright	
	Degrees	Detents	Degrees	Detent
Driver Seat w/ Seated Dummy	65.3	Power	11.4	Power
Front Passenger Seat	65.5	Power	11.4	Power
Front Center Seat*	N/A	N/A	N/A	N/A
Struck Side Rear Seat w/ Seated Dummy	16.8	3	22.6	1
Non-Struck Side Rear Seat	16.8	3	22.6	1
Rear Center Seat*	N/A	N/A	N/A	N/A

\* If applicable

**SEAT BELT ANCHORAGE ADJUSTMENT**

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

	Total # of Positions	Placed in Position #
Driver Seat	4	0
Rear Seat	Fixed	Fixed

**HEAD RESTRAINT ADJUSTMENT**

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

	Total # of Positions	Placed in Position #
Driver Seat	4	4
Rear Seat	Fixed	Fixed

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

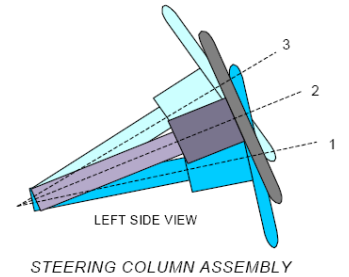
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**STEERING COLUMN ADJUSTMENT**

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.

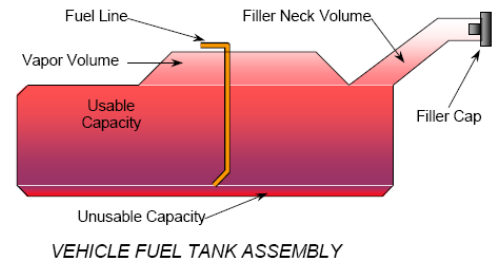
	Degrees	Fore/Aft Position (mm)
Lowermost, Position No. 1	20.0	
Geometric Center, Position No. 2	22.0	
Uppermost, Position No. 3	24.0	
Telescoping Steering Wheel Travel		52
Test Position	22.0	26



**FUEL PUMP**

Describe the fuel pump type, details about how it operates, and the location of the fuel filler neck.

Fuel pump will run for approximately 3 seconds when the key or push start button is switched to "On" position, then, it will stop and will not resume operation unless the engine is cranking or running



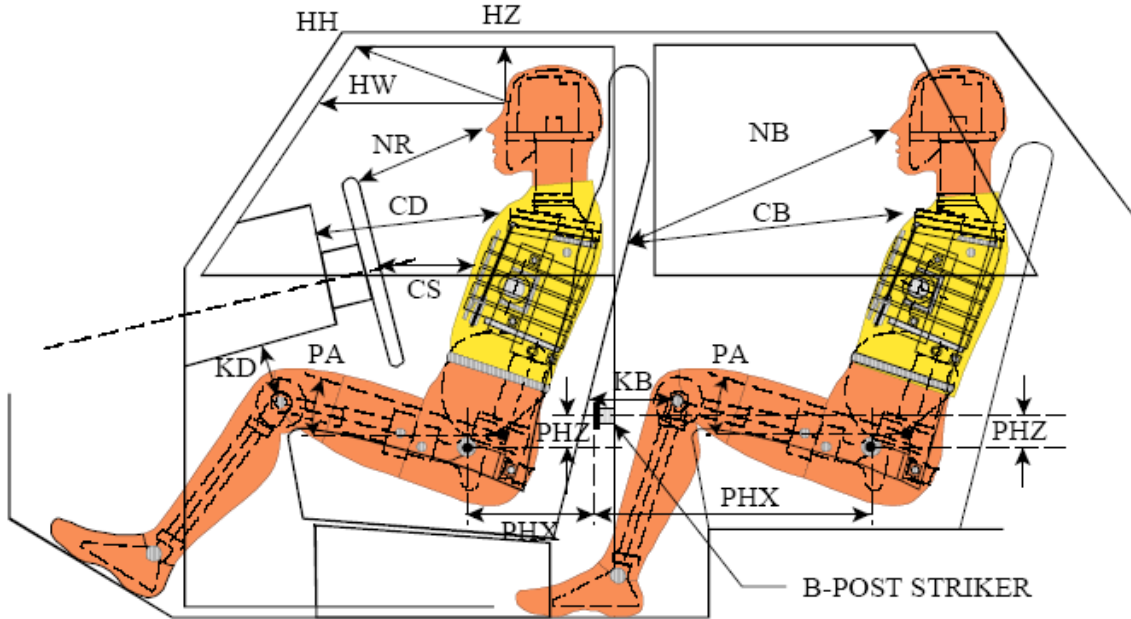
	Liters
Usable Capacity of "Standard Tank" (see Form No. 1)	90.8
Usable Capacity of "Optional Tank" (see Form No. 1)	N/A
Usable Capacity of Standard Tank (see Owner's Manual)	90.8
Usable Capacity of Optional Tank (see Owner's Manual)	N/A
93% of Usable Capacity	84.5
Actual Amount of Solvent Used in Test	84.5
1/3 of Usable Capacity	30.3

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       NO

**DATA SHEET NO. 3  
DUMMY LONGITUDINAL CLEARANCE DIMENSIONS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



**LEFT SIDE VIEW**

NOTE: 2-DOOR VEHICLE SHOWN.  
REAR DUMMY PHX & PHZ  
MEASUREMENTS FOR A 4-DOOR  
VEHICLE WOULD USE THE C-POST  
STRIKER AS A REFERENCE POINT

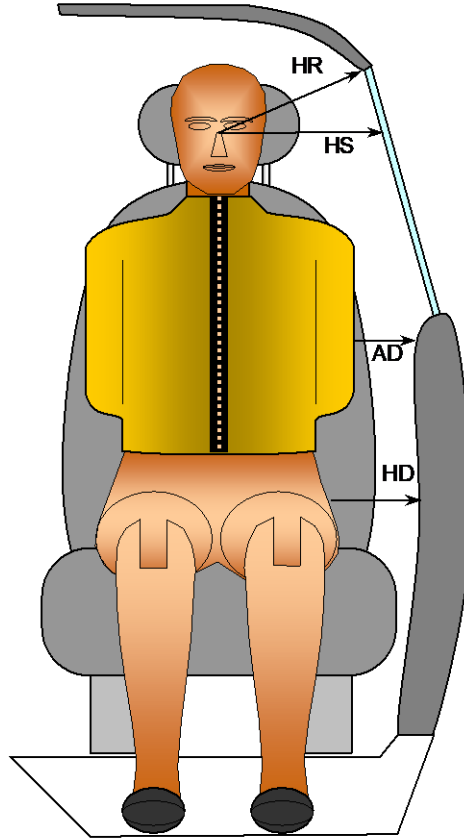
**DUMMY LONGITUDINAL CLEARANCE DIMENSION INFORMATION**

Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length (mm)	Angle	Length (mm)	Angle
HH		Header to Header	506			
HW		Header to Windshield	837			
HZ	HZ	Head to Roof Liner	260		285	
NR	NB	Nose to Rim/Seat Back	489		680	
CD	CB	Chest to Dash/Seat Back	708		644	
CS		Chest to Steering Wheel	423			
KD(L)/KDA(L)°	KB(L)/KBA(L)°	Left Knee to Dash/Seat Back	245	0.0	280	0.0
KD(R)/KDA(R)°	KB(R)/KBA(R)°	Right Knee to Dash/Seat Back	233	0.0	280	0.0
PAX°	PAX°	Pelvic Tilt Angle X		1.2		0.4
	PAY°	Pelvic Tilt Angle Y				21.8
PHX	PHX	Hip Point to Striker (X-Axis)	188		282	
PHZ	PHZ	Hip Point to Striker (Z-Axis)	104		151	

**DATA SHEET NO. 4  
DUMMY LATERAL CLEARANCE DIMENSIONS**

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
 Test Date: 5/1/2025



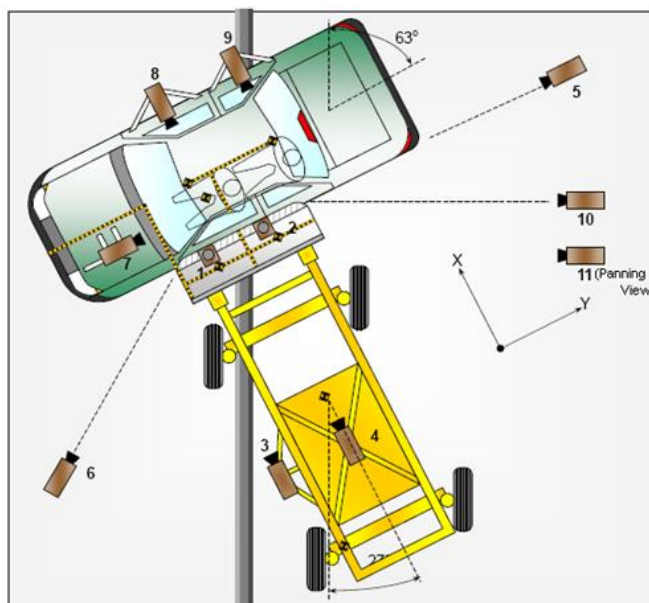
**FRONT VIEW OF DUMMY**

Code	Description	Units	Driver	Passenger
HR	Head to Side Header	mm	275	300
HS	Head to Side Window	mm	340	350
AD	Arm to Door	mm	115	160
HD	H-Point to Door	mm	155	170

**DATA SHEET NO. 5  
CAMERA AND INSTRUMENTATION DATA**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



**CAMERA LOCATIONS AND DATA**

No.	Camera View	Coordinates (mm)			Lens Length (mm)	Operating Frame Rate (fps)
		X	Y	Z		
1	Overhead Overall	1582	0	-5606	8.5	1000
2	Overhead Close-up	1399	0	-5600	28	1000
3	Left Impact Point (MDB)	-1545	-940	-820	25	1000
4	Side Overall (MDB)	-2281	0	-1410	8.5	1000
5	Rear	3906	5375	-1550	20	1000
6	Left Front	-3382	-3363	-1560	20	1000
7	Driver Front (OB)				25	1000
8	Driver Side (OB)				8.5	1000
9	Passenger Side (OB)				8.5	1000
10	Real-time Left Rear				Zoom	30
11	Real-time Inrun				Zoom	30

Reference: Impact Point projected to Ground; +X = To Front of MDB +Y = To Right of MDB; +Z = Down

\*All measurements accurate to  $\pm 6$  mm.

If applicable, explain why camera(s) did not operate as intended: N/A

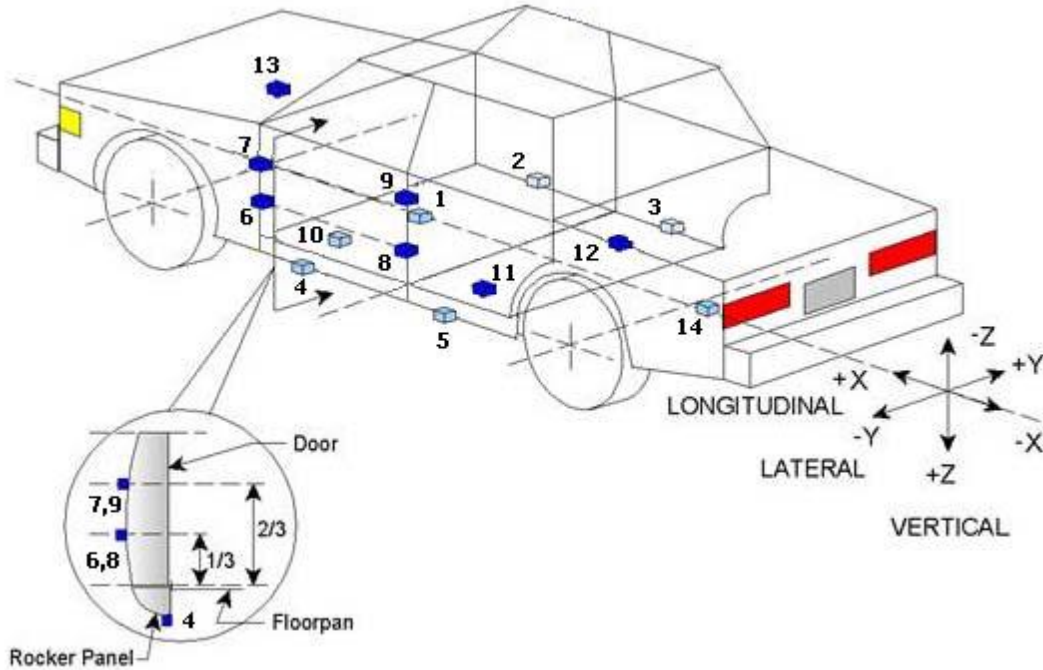
**INSTRUMENTATION**

Driver Dummy Channels	16
Passenger Dummy Channels	16
Vehicle Structure Accelerometers	23
MBD Accelerometers	5
<b>TOTAL</b>	<b>60</b>

**DATA SHEET NO. 6**  
**TEST VEHICLE ACCELEROMETER LOCATIONS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



**TEST VEHICLE ACCELEROMETER LOCATIONS**

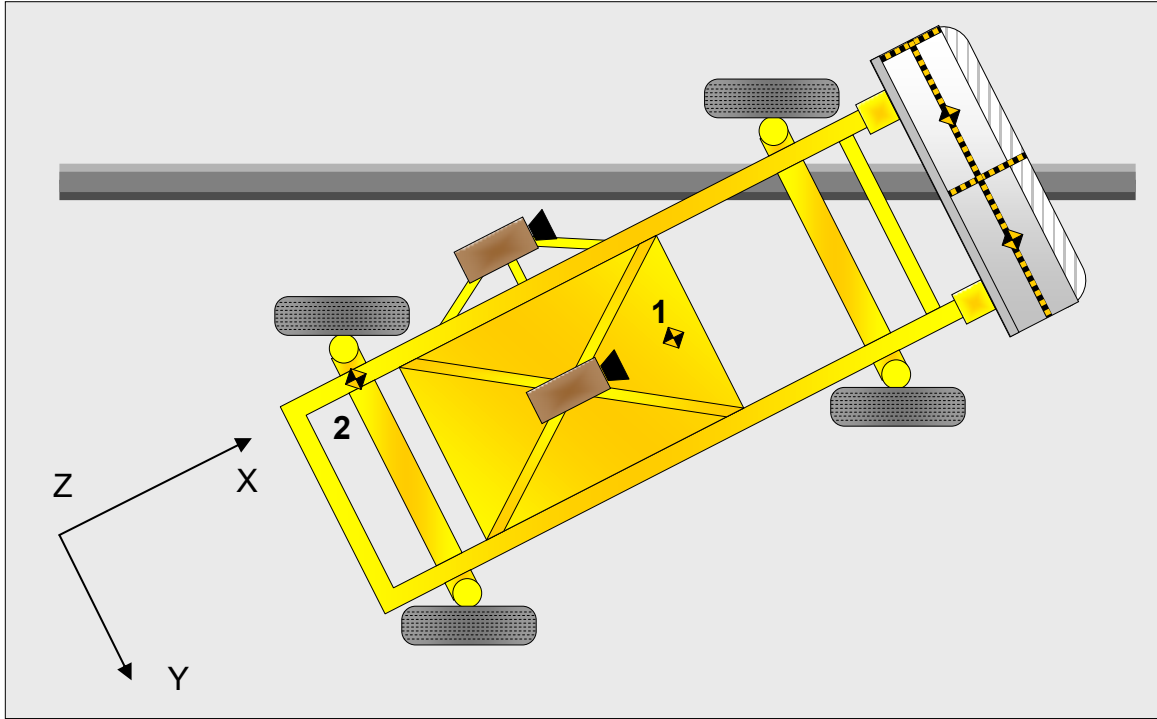
Loc. No.	Accelerometer Location	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	3434	195	-694
2	Right Sill at Front Seat	3401	640	-569
3	Right Sill at Rear Seat	2328	682	-600
4	Left Sill at Front Door	3348	-692	-567
5	Left Sill at Rear Door	2336	-677	-598
6	A-Post Lower	3774	-912	-762
7	A-Post Middle	3805	-889	-1128
8	B-Post Lower	2626	-928	-803
9	B-Post Middle	2627	-914	-1121
10	Front Seat Track	2864	-257	-708
11	Rear Seat Structure	2224	-373	-662
12	Right Rear Occ. Compartment	2223	464	-663
13	Engine Block	4340	28	-1183
14	Rear Above Axle	862	-20	-803

Reference: X - Rear surface of vehicle (+ forward)  
Y - Vehicle Centerline (+ to right)  
Z - Ground Plane (+ down)

**DATA SHEET NO. 7  
MDB ACCELEROMETER LOCATIONS**

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
 Test Date: 5/1/2025



**MDB ACCELEROMETER LOCATIONS**

Loc. No.	Accelerometer Location	Coordinates (mm)		
		X	Y	Z
1	MDB CG	-2196	0	-500
2	MDB Rear	-3585	-645	-620

Reference : X - Face of MDB (+ forward)  
 Y - MDB Centerline (+ to right)  
 Z - Ground Plane (+ down)

**DATA SHEET NO. 8  
POST-TEST OBSERVATIONS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025

**TEST DUMMY INFORMATION AND CONTACT POINTS**

Dummy Body Part	Front Seat Dummy (ES2-re)	Rear Seat Dummy (SID-IIs)
Face	SCAB	SCAB
Top of Head	SCAB	SCAB
Left Side of Head	SCAB	SCAB
Back of Head	SCAB	None
Left Shoulder	SCAB	Door Panel
Upper Torso	SAB	Door Panel
Lower Torso	SAB	Door Panel
Left Hip	SAB	Door Panel
Left Knee	Door Panel	Door Panel

**POST-TEST DOOR PERFORMANCE**

Description	Struck Side		Non-Struck Side		Trunk Lid
	Front	Rear	Front	Rear	
Remained Closed and Operational	No	No	Yes	Yes	Yes
Total Separation from Vehicle at Hinges or Latches	No	No	No	No	No
Latch or 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)	No	No	No	No	No

**POST-TEST SEAT PERFORMANCE**

Description	Struck Side		Non-Struck Side	
	Front	Rear	Front	Rear
Seat Movement Along Seat Track	None	None	None	None
Seat Disengagement from Floor pan	None	None	None	None
Seat Back Movement from Initial Position	None	None	None	None
Seat Back Collapse	None	None	None	None

**POST-TEST STRUCTURAL OBSERVATIONS**

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	Good
Sill Separation	Good
Windshield Damage	None
Side Window Damage	None
Other Notable Effects	None

**DATA SHEET NO. 8 (CONTINUED)  
POST TEST OBSERVATIONS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025

**SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION**

Restraint Type	Struck Side Driver		Struck Side Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Frontal Airbag	Yes	No		
Knee Airbag	No	N/A		
Side Curtain Airbag	Yes	Yes	Yes	Yes
Side Torso/Pelvis Airbag	Yes	Yes	No	N/A
Side Pelvis Airbag	No	N/A	No	N/A
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes	No	Yes	No
Other: Center Seat Airbag	Yes	Yes	No	N/A

**IMPACT POINT LOCATION DATA**

Measured Parameter	Units	Tolerance	Value
Vehicle Wheel Base	mm		3060
Vertical Impact Reference Line (Aft of Front Axle) (Intended Impact Point)	mm		508
Actual Impact Point (Aft of Front Axle)	mm		503
Horizontal Offset (+ forward / - rearward)	mm	+/- 50 of Intended Impact point	+5
Vertical Offset (+ down / - up)	mm	+/- 20 of Intended Impact point	-7

**DATA SHEET NO. 9  
MDB SUMMARY OF RESULTS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025

**MDB SPECIFICATIONS**

Measurement Description	Length (mm)
Overall Width of Framework Carriage	1252
Overall Length Including Honeycomb Face	4115
Wheel Base of Framework Carriage	2591
C.G. Location aft of Front Axle	1121

**MDB WEIGHTS**

	Units	Front Axle	Rear Axle	Total
Left	kg	378.8	303.8	682.6
Right	kg	397.0	287.6	684.6
Ratio	%	56.7	43.3	100.0
Totals	kg	775.8	591.4	1367.2

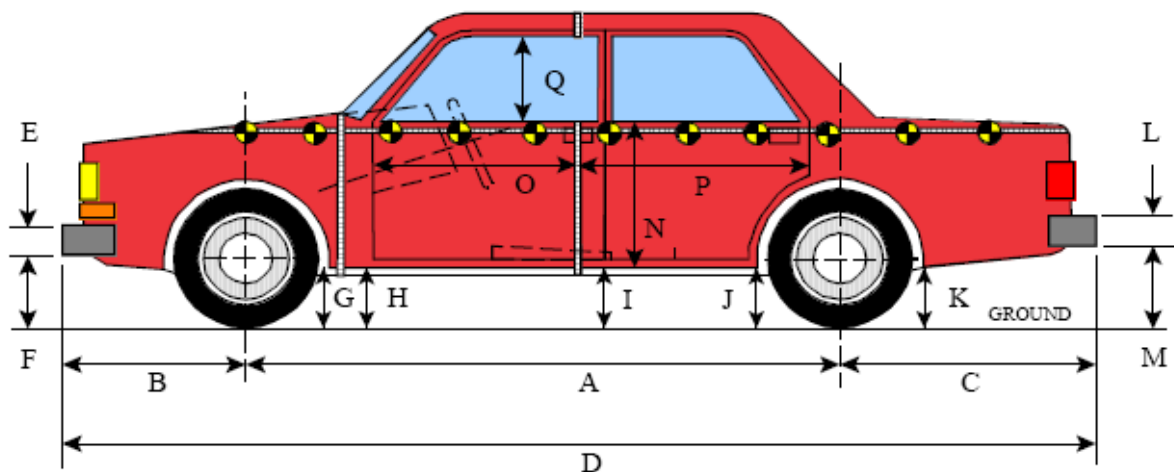
**SPEED AND IMPACT ANGLE DATA**

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	62.39
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	62.36
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90.0
MDB Forward Line of Motion to Target Vehicle CL	degrees	62.5 to 63.5	63.0
MDB Crabbed Angle to MDB Forward Line of Motion	degrees	26 to 28	27.0

**DATA SHEET NO. 10  
TEST VEHICLE PROFILE MEASUREMENTS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



**LEFT SIDE VIEW**

All MEASUREMENTS IN (mm) WITH TOLERANCE OF  $\pm 3$ mm

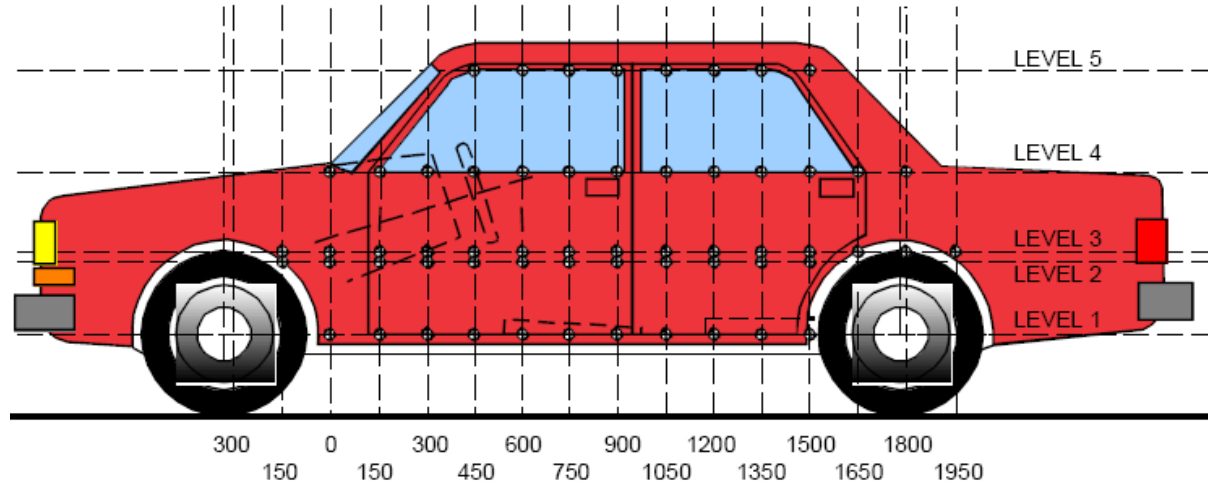
**VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION**

Code	Measurement Description	Pre-Test	Post-Test	Change
A	Wheelbase	3060	3070	10
B	Front Axle to Front Surface of Vehicle	1001	977	-24
C	Rear Axle to Rear Surface of Vehicle	1328	1320	-8
D	Total Length at Centerline	5389	5367	-22
E	Front Bumper Thickness	105	105	0
F	Front Bumper Bottom to Ground	584	574	-10
G	Sill Height at Front Wheel Well	560	550	-10
H	Sill Height at Front Door Leading Edge	560	588	28
I	Sill Height at B-Pillar	578	607	29
J1	Sill Height at Rear Wheel Well	586	614	28
J2	Pinch Weld Height at Rear Wheel Well	225	258	33
K	Sill Height Aft of Rear Wheel Well	610	645	35
L	Rear Bumper Thickness	123	123	0
M	Rear Bumper Bottom to Ground	619	642	23
N	Sill Height to Window Bottom Sill	828	906	78
O	Front Door Leading Edge to Impact CL	798	805	7
P	Rear Door Trailing Edge to Impact CL	1435	1447	12
Q	Front Window Opening	500	510	10
R	Right Side Length	5199	5232	33
S	Left Side Length	5197	5209	12
T	Vehicle Width	2060	2072	12
U	Front Wheel Track Width	1745	1735	-10
V	Rear Wheel Track Width	1739	1730	-9

**DATA SHEET NO. 11**  
**TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS**

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
 Test Date: 5/1/2025



**LEFT SIDE VIEW**

**MAXIMUM EXTERIOR CRUSH MEASUREMENTS**

Level	Measurement Description	Height Above Ground	Maximum Exterior Static Crush	Distance From Impact
1	Sill Top	-524	102	1650
2	Driver Hip Point	-897	87	1800
3	Mid Door	-871	94	1650
4	Window Sill	-1288	10	1350
5	Window Top	-1869	2	2250
				2550

**NOTE:** The above measurements were taken along the vertical impact reference line. Vehicle measurements forward of the vertical impact reference line are negative.

**DATA SHEET NO. 11 (CONTINUED)**  
**TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS**

Test Vehicle: 2025 Chevrolet Tahoe  
 Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
 Test Date: 5/1/2025

**EXTERIOR CRUSH MEASUREMENTS AT EACH LEVEL**

	Pre-Test					Post-Test					Crush				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<b>-450</b>	0	0	0	907	0	0	0	0	925	0	0	0	0	-18	0
<b>-300</b>	0	0	0	913	0	0	0	0	923	0	0	0	0	-10	0
<b>-150</b>	0	1019	1020	919	0	0	1051	1052	922	0	0	-32	-32	-3	0
<b>0</b>	997	1016	1016	926	0	1028	1040	1041	940	0	-31	-24	-25	-14	0
<b>150</b>	986	1011	1011	930	0	956	967	947	971	0	30	44	64	-41	0
<b>300</b>	980	1009	1009	935	0	947	970	953	975	0	33	39	56	-40	0
<b>450</b>	978	1008	1008	939	0	944	964	951	976	0	34	44	57	-37	0
<b>600</b>	981	1008	1008	943	0	944	962	949	975	0	37	46	59	-32	0
<b>750</b>	982	1009	1009	947	0	938	960	948	973	0	44	49	61	-26	0
<b>900</b>	980	1010	1010	950	695	925	959	949	968	703	55	51	61	-18	-8
<b>1050</b>	981	1011	1011	954	701	918	957	950	964	708	63	54	61	-10	-7
<b>1200</b>	983	1012	1012	957	703	918	982	976	958	708	65	30	36	-1	-5
<b>1350</b>	980	1012	1012	957	704	897	934	933	947	707	83	78	79	10	-3
<b>1500</b>	979	1012	1012	957	704	883	931	920	954	708	96	81	92	3	-4
<b>1650</b>	978	1011	1011	956	704	876	927	917	961	705	102	84	94	-5	-1
<b>1800</b>	978	1012	1012	957	700	900	925	921	966	702	78	87	91	-9	-2
<b>1950</b>	981	1015	1014	955	696	947	942	942	969	696	34	73	72	-14	0
<b>2100</b>	0	1019	1019	953	695	0	985	991	970	695	0	34	28	-17	0
<b>2250</b>	0	1019	1018	950	693	0	1016	1017	968	691	0	3	1	-18	2
<b>2400</b>	0	0	0	947	689	0	0	0	949	688	0	0	0	-2	1
<b>2550</b>	0	0	0	942	686	0	0	0	943	684	0	0	0	-1	2

**NOTE:** Pre-test measurements are taken when the vehicle is in the "As Tested" weight condition. Vehicle measurements forward of the vertical impact reference line are negative. The crush profile grid is established prior to the test based on an estimated impact point.

**DATA SHEET NO. 11 (CONTINUED)**  
**TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

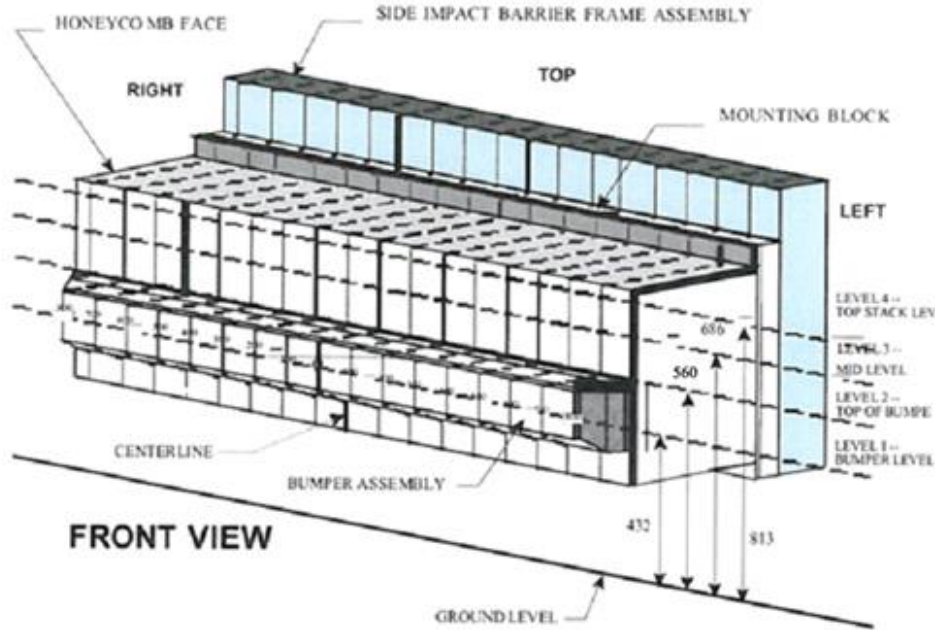
NHTSA No.: M20250109  
Test Date: 5/1/2025



**DATA SHEET NO. 12  
MDB EXTERIOR STATIC CRUSH MEASUREMENTS**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



NOTE: Dimensions are shown in millimeters, mm

**MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE**

Vertical Location			From Centerline		Maximum Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	800	Left	230
B	Top of Bumper	560	200	Right	189
C	Mid-Level	686	300	Right	208
D	Top of Stack	813	300	Right	224

**DEFORMABLE BARRIER STATIC CRUSH**

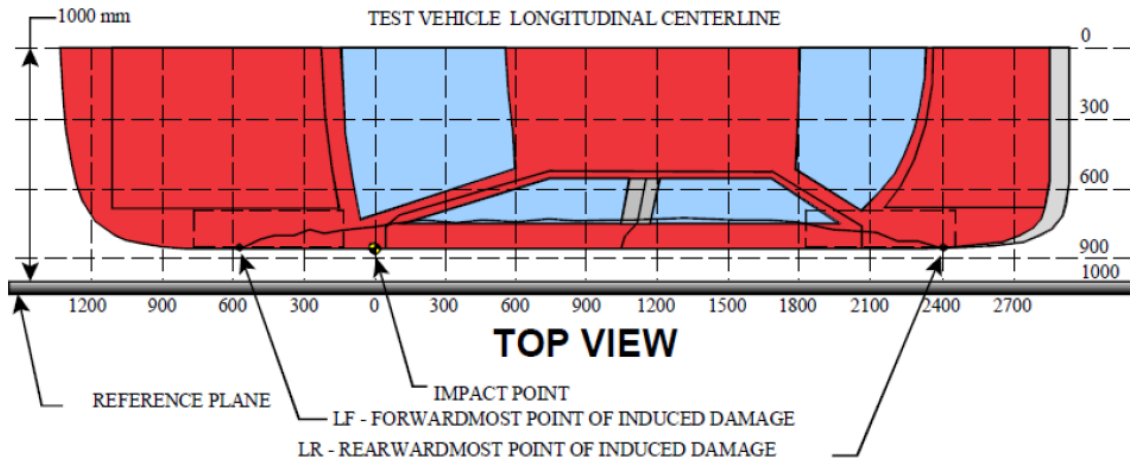
Stack Level	Distance Right of Center								C/L	Distance Left of Center							
	800	700	600	500	400	300	200	100		0	100	200	300	400	500	600	700
1	193	196	200	203	207	210	214	216	218	221	223	220	221	224	228	230	193
2	182	183	185	187	---1	189	185	181	166	156	144	137	129	135	148	161	182
3	176	147	139	166	208	179	147	146	140	130	118	107	101	99	113	164	176
4	166	155	145	170	224	194	158	140	130	120	118	119	114	123	134	169	166

<sup>1</sup>Missing points post test

**DATA SHEET NO. 13  
VEHICLE AND MDB DAMAGE PROFILE DISTANCES**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



MEASUREMENT CONVENTIONS:  
Forward of the impact point (towards front of vehicle) is considered negative (-).  
Rearward of the impact point (toward rearend of vehicle) is considered positive (+).

**VEHICLE DAMAGE PROFILE DISTANCES**

DPD	Distance From Impact Point (mm)	Level	Post-Test (mm)	Pre-Test (mm)	Crush (mm)
1	2550	5	684	686	2
2	1950	2	942	1015	73
3	1500	1	883	979	96
4	1050	1	918	981	63
5	600	3	949	1008	59
6 <sup>1</sup>	150	3	947	1011	0

**MDB DAMAGE PROFILE DISTANCES**

DPD	Distance From Center of MDB	Level	Post-Test (mm)	Pre-Test (mm)	Crush (mm)
1	800	1	471	241	230
2	500	1	485	264	221
3	200	1	485	264	221
4	200	1	486	276	210
5	500	1	486	286	200
6 <sup>1</sup>	800	3	384	188	196

<sup>1</sup> DPD 6 is defined as zero crush since the crush does not extend to the end of the vehicle.

**DATA SHEET NO. 14  
FMVSS NO. 301 STATIC ROLLOVER RESULTS**

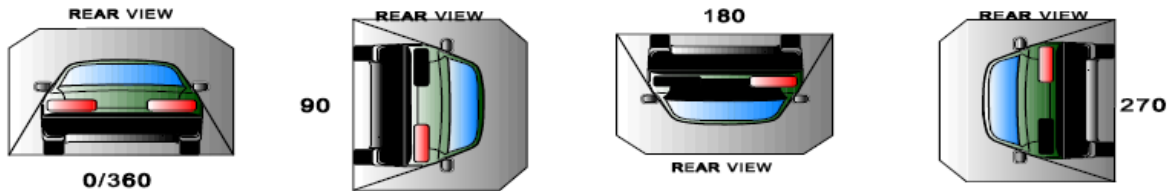
Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025

**Test Time:** 15:55    **Temperature:** 21.0C

- A. From impact until vehicle motion ceases: 0 oz.  
(Maximum allowable is 1 ounce)
- B. For the 5 minute period after motion ceases: 0 oz.  
(Maximum allowable is 5 ounces)
- C. For the following 25 minutes: 0 oz.  
(Maximum allowable is 1 ounce/minute)
- D. Spillage Details: None

**FMVSS 301 STATIC ROLLOVER DATA**



**ROLLOVER SOLVENT COLLECTION TIME TABLE IN SECONDS**

Test Phase	Rotation Time	Hold Time	Total Time
0 to 90	90	330	420
90 to 180	90	330	840
180 to 270	90	330	1260
270 to 360	90	330	1680

**FMVSS NO. 301 ROLLOVER SPILLAGE TABLE**

Test Phase	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

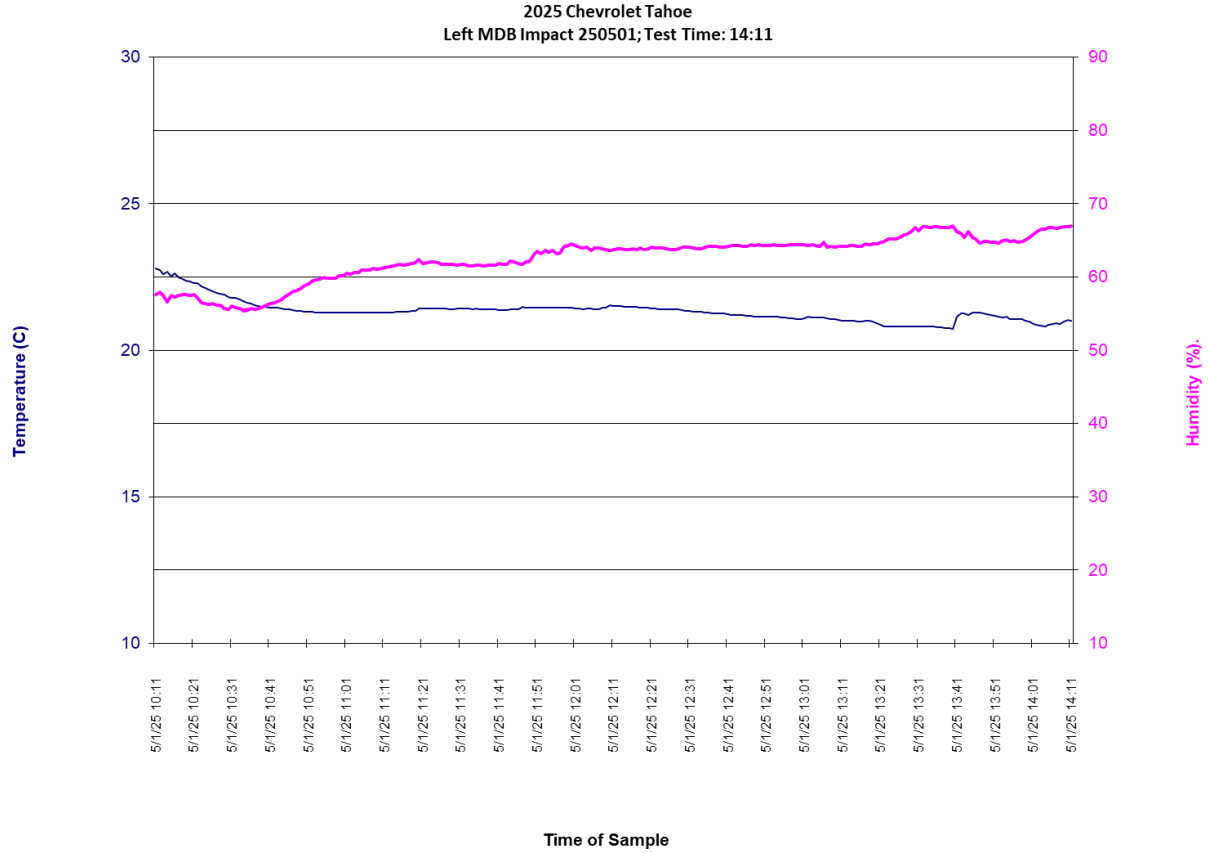
**ROLLOVER SOLVENT SPILLAGE LOCATION TABLE**

Test Phase	Spillage Location
0 to 90	None
90 to 180	None
180 to 270	None
270 to 360	None

**DATA SHEET NO. 15**  
**DUMMY/VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION DATA**

Test Vehicle: 2025 Chevrolet Tahoe  
Test Program: SINCAP Side Impact

NHTSA No.: M20250109  
Test Date: 5/1/2025



**APPENDIX A  
PHOTOGRAPHS**

## TABLE OF PHOTOGRAPHS

<b>No.</b>	<b>Description</b>	<b>Page</b>
<b>001</b>	As-Delivered Right Front $\frac{3}{4}$ View of Test Vehicle	<b>A-6</b>
<b>002</b>	As-Delivered Left Rear $\frac{3}{4}$ View of Test Vehicle	<b>A-6</b>
<b>003</b>	Pre-Test Frontal View of Test Vehicle	<b>A-7</b>
<b>004</b>	Post-Test Frontal View of Test Vehicle	<b>A-7</b>
<b>005</b>	Pre-Test Left Front $\frac{3}{4}$ View of Test Vehicle	<b>A-8</b>
<b>006</b>	Post-Test Left Front $\frac{3}{4}$ View of Test Vehicle	<b>A-8</b>
<b>007</b>	Pre-Test Left Side View of Test Vehicle	<b>A-9</b>
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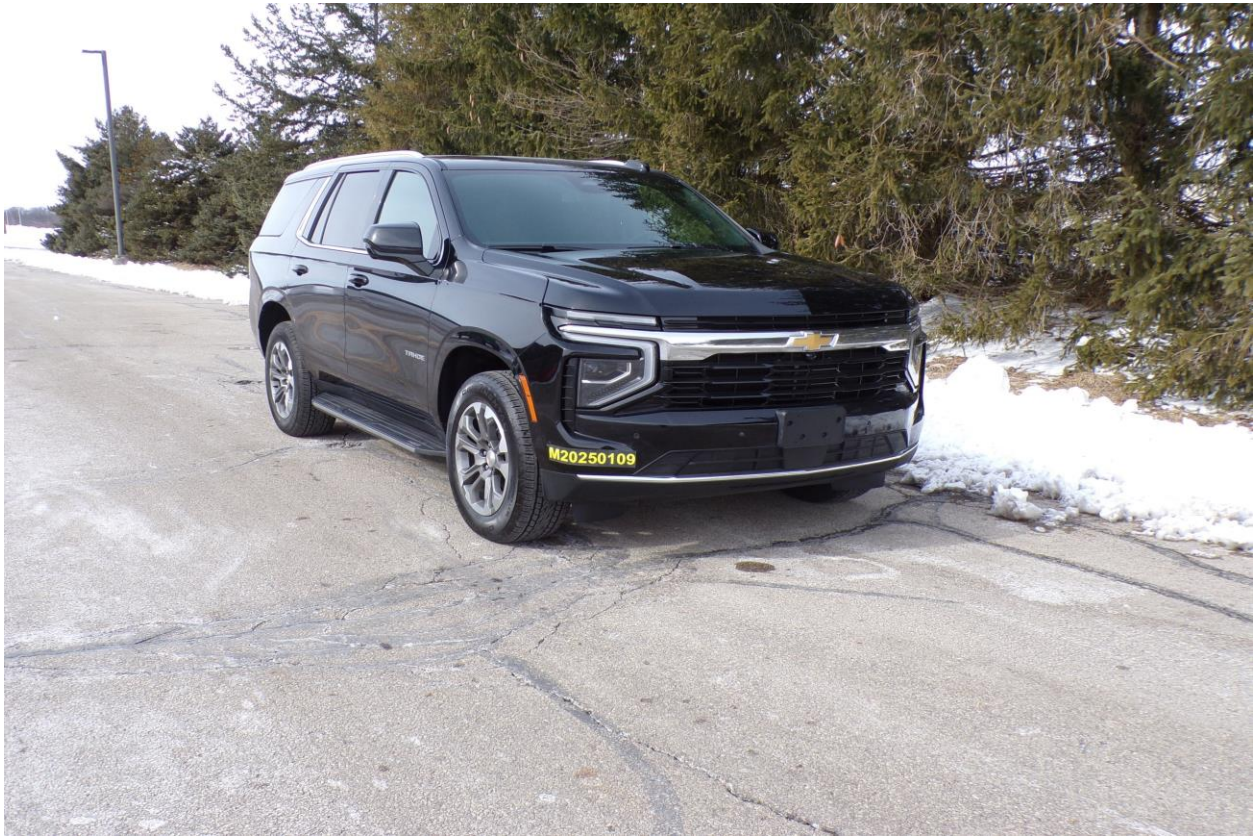
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**001** As-Delivered Right Front  $\frac{3}{4}$  View of Test Vehicle



**002** As-Delivered Left Rear  $\frac{3}{4}$  View of Test Vehicle



**003** Pre-Test Frontal View of Test Vehicle



**004** Post-Test Frontal View of Test Vehicle



**005** Pre-Test Left Front  $\frac{3}{4}$  View of Test Vehicle



**006** Post-Test Left Front  $\frac{3}{4}$  View of Test Vehicle



**007** Pre-Test Left Side View of Test Vehicle



**008** Post-Test Left Side View of Test Vehicle



**009** Pre-Test Left Rear  $\frac{3}{4}$  View of Test Vehicle



**010** Post-Test Left Rear  $\frac{3}{4}$  View of Test Vehicle



011 Pre-Test Rear View of Test Vehicle



012 Post-Test Rear View of Test Vehicle



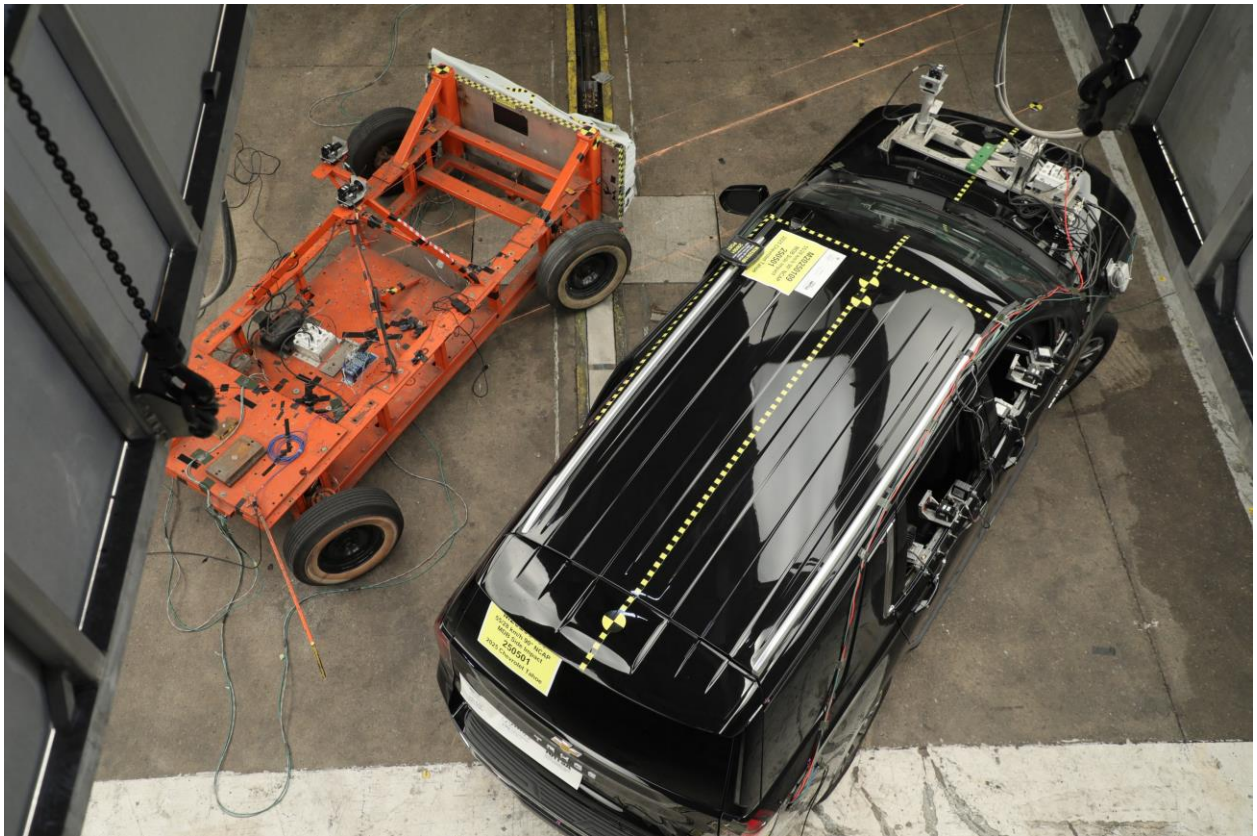
**013** Pre-Test Right Side View of Test Vehicle



**014** Post-Test Right Side View of Test Vehicle



**015** Pre-Test Overhead View of Test Area



**016** Post-Test Overhead View of Test Area



**017** Pre-Test Left Side View of MDB Positioned Against Side of Test Vehicle



**018** Pre-Test Right Side View MDB Positioned Against Side of Test Vehicle



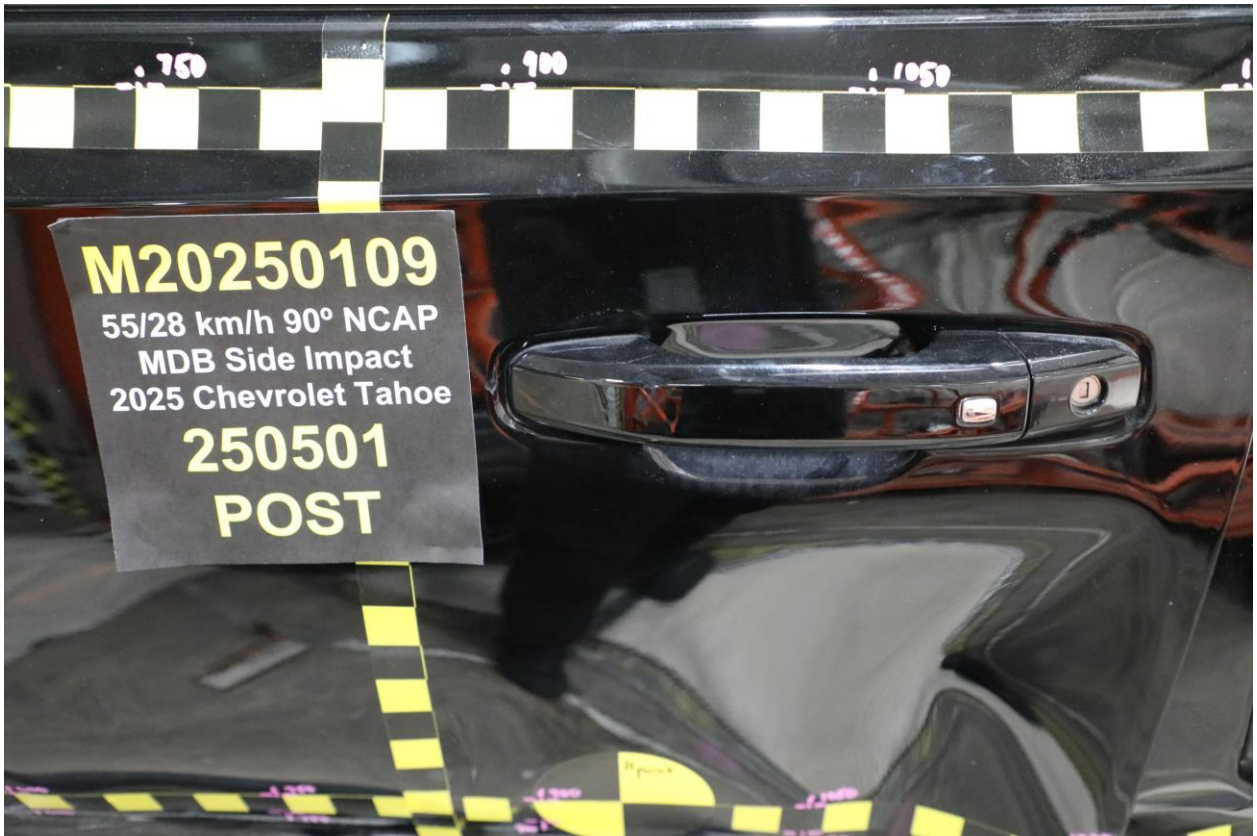
019 Pre-Test Close-Up View of Impact Point Target



020 Post-Test Close-Up View of Impact Point Target



021 Pre-Test Left Front Door Latch Close-Up



022 Post-Test Left Front Door Latch Close-Up



023 Pre-Test Left Rear Door Latch Close-Up



024 Post-Test Left Rear Door Latch Close-Up



**025** Pre-Test Front Close-Up View of Driver Dummy



**026** Post-Test Front Close-Up View of Driver Dummy



**027** Pre-Test Left Side View of Driver Dummy Showing Belt and Chalking

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**028** Pre-Test Left Side View of Driver Dummy Shoulder and Door Top



**029** Post-Test Left Side View of Driver Dummy Shoulder and Door Top



**030** Pre-Test Frontal View of Driver Seat Back Prior to Dummy Positioning



**031** Pre-Test Frontal View of Driver Dummy Head and Shoulders in Relation to Head Restraint



**032** Pre-Test Frontal View of Driver Seat Pan Prior to Dummy Positioning



**033** Pre-Test Overhead View of Driver Dummy Thighs on Seat Pan



**034** Pre-Test Placement of Driver's Dummy Feet



**035** Pre-Test View of Belt Anchorage for Driver Dummy



036 Pre-Test Left Side View of Steering Wheel



037 View of Disengaged Parking Brake



038 Pre-Test View of Parking Brake



039 Pre-Test Close-Up Left Side View of Driver Seat Track



**040** Pre-Test Close-Up Left Side View of Driver Seat Back



**041** Pre-Test Close-Up View of Driver Seat Back or Head Restraint



**042** Pre-Test Driver Dummy and Door Clearance View



**043** Post-Test Driver Dummy and Door Clearance View



**044** Pre-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



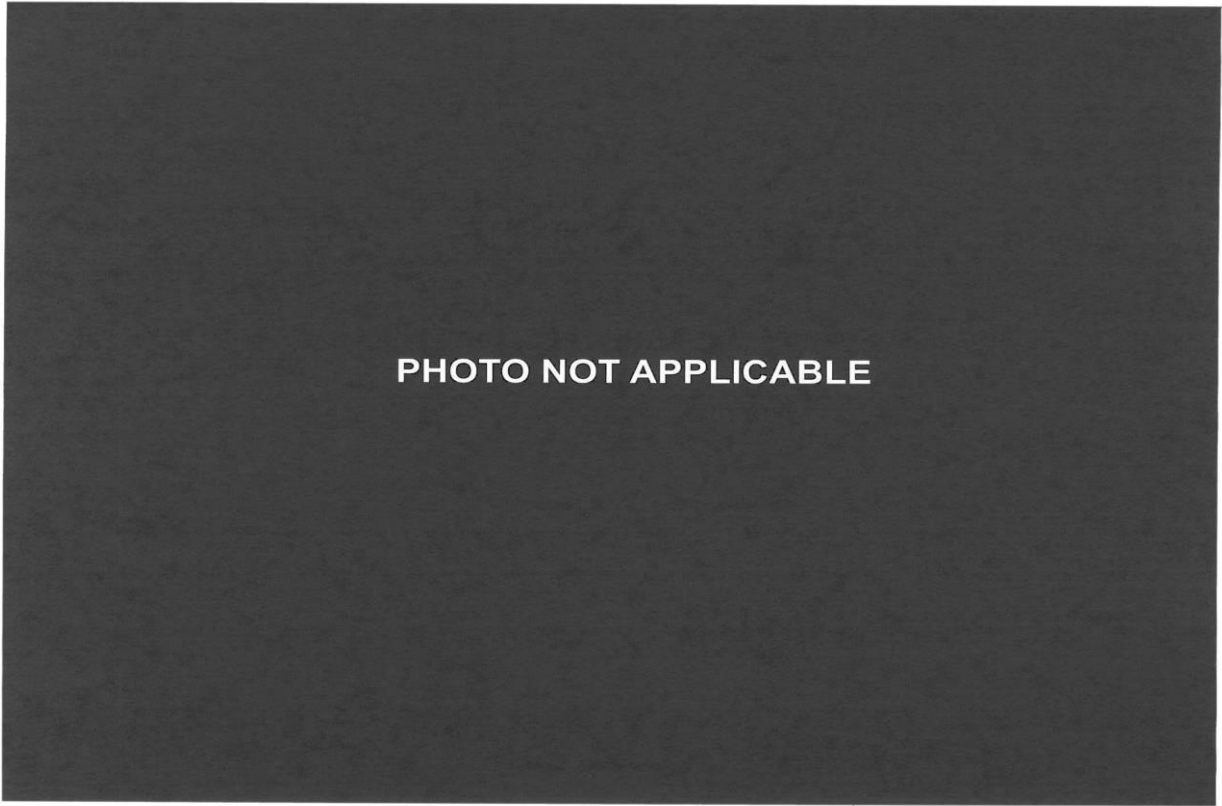
**045** Post-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



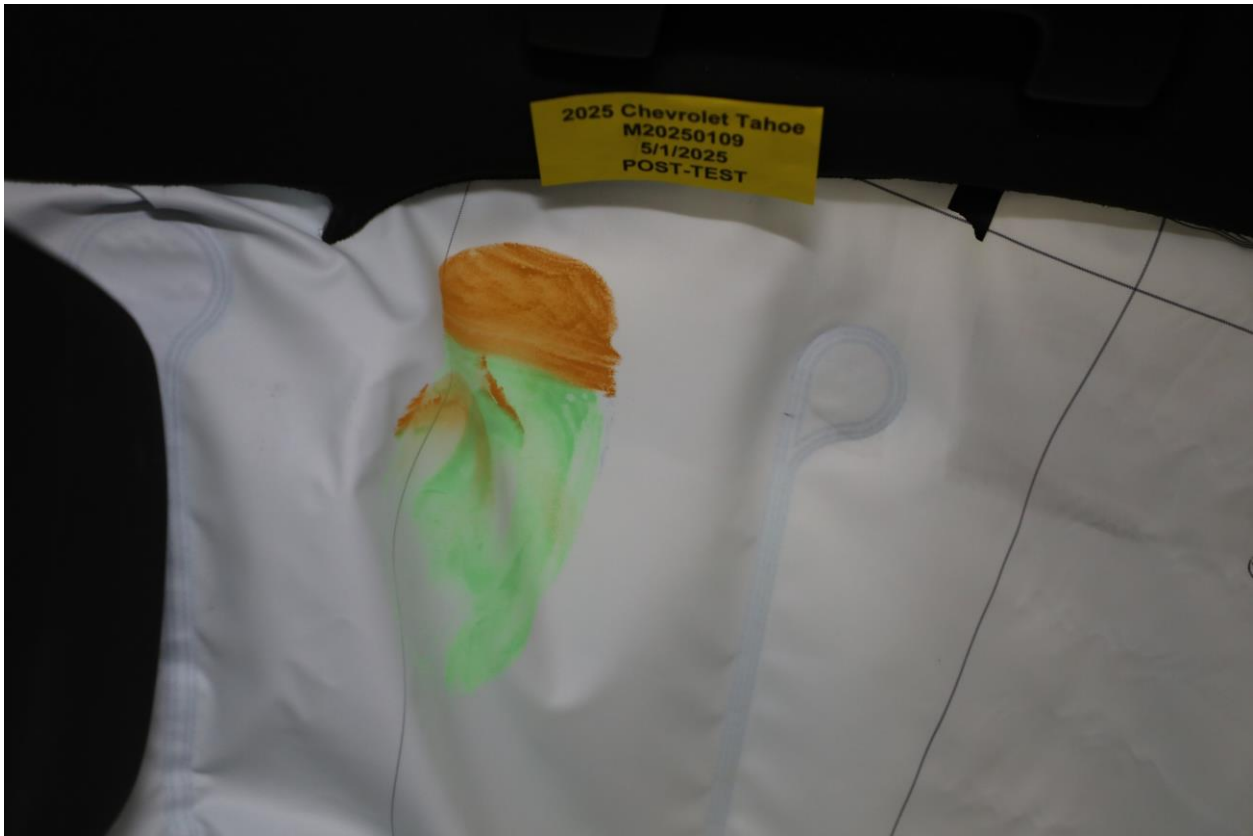
**046** Pre-Test Driver Inner Door Panel View



**047** Post-Test Driver Inner Door Panel View Showing Driver Dummy Contact Locations



**048** Post-Test Driver Dummy Close-Up Head Contact with Vehicle View



**049** Post-Test Driver Dummy Close-Up Head Contact with Side Airbag View



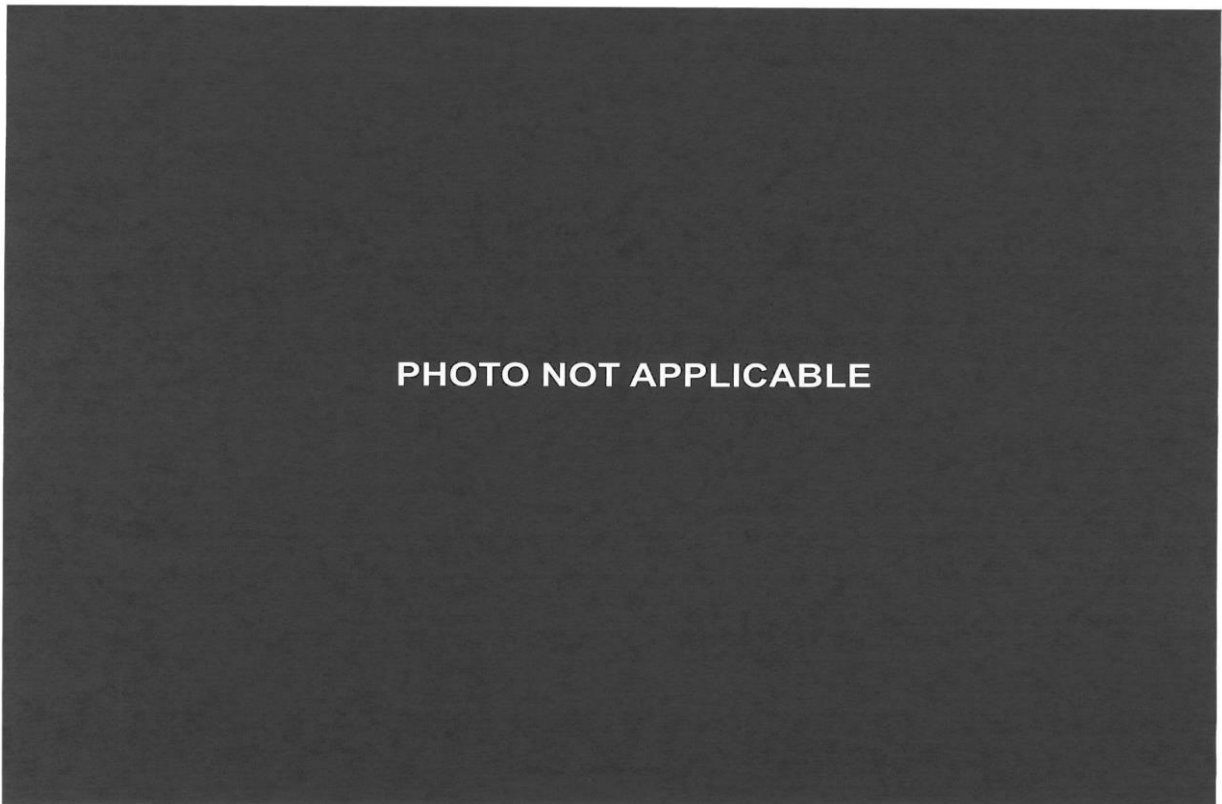
**050** Post-Test Driver Dummy Close-Up Torso Contact with Vehicle Interior View



**051** Post-Test Driver Dummy Close-Up Torso Contact with Side Airbag View



**052** Post-Test Driver Dummy Close-Up Pelvis Contact View



**053** Post-Test Driver Dummy Close-Up Pelvis Contact with Side Airbag View



**054** Post-Test Driver Dummy Close-Up Knee Contact View



**055** Pre-Test Left Side View of Passenger Dummy Showing Belt and Chalking



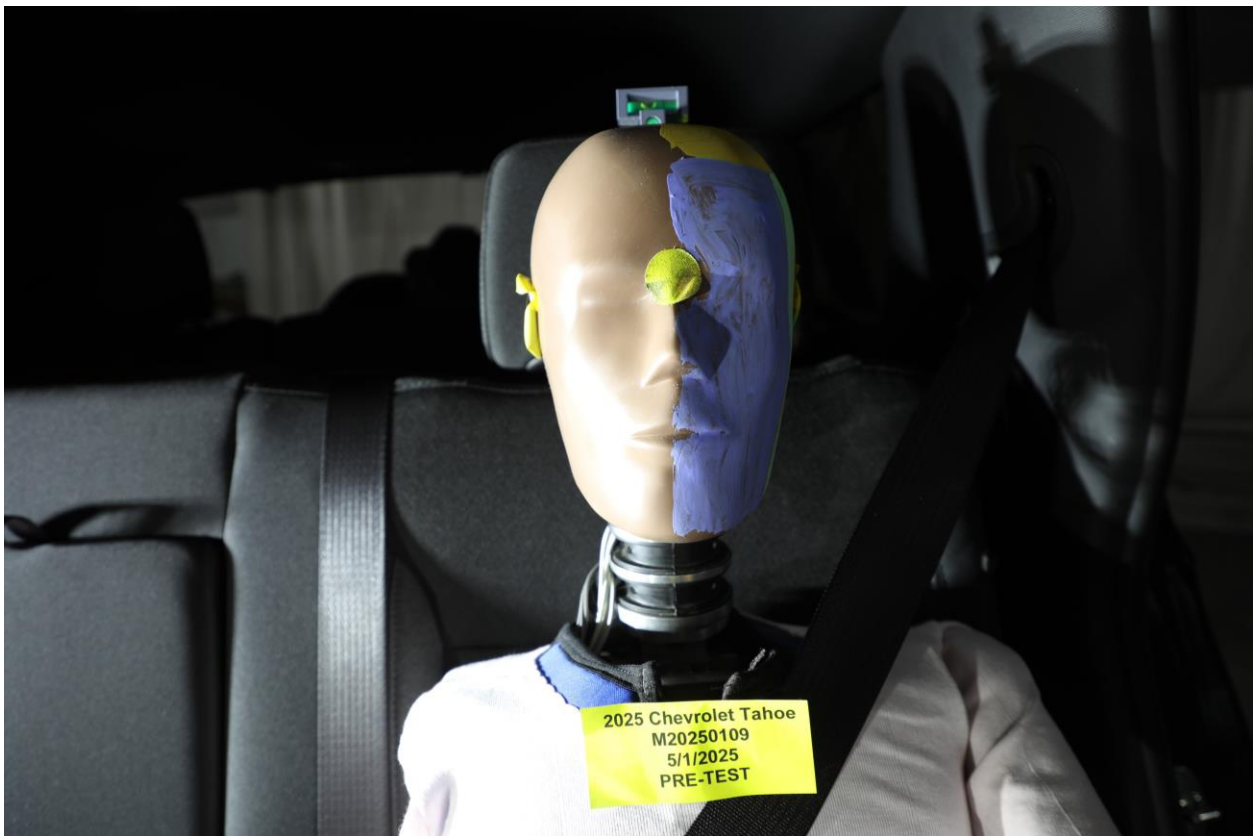
**056** Pre-Test Left Side View of Passenger Dummy Shoulder and Door Top View



**057** Post-Test Left Side View of Passenger Dummy Shoulder and Door Top View



**058** Pre-Test Frontal View of Rear Passenger Seat Back Prior to Dummy Positioning



**059** Pre-Test Frontal View of Rear Passenger Dummy Head and Shoulders in Relation to Head Restraint



**060** Pre-Test Overhead View of Rear Passenger Seat Pan Prior to Dummy Positioning



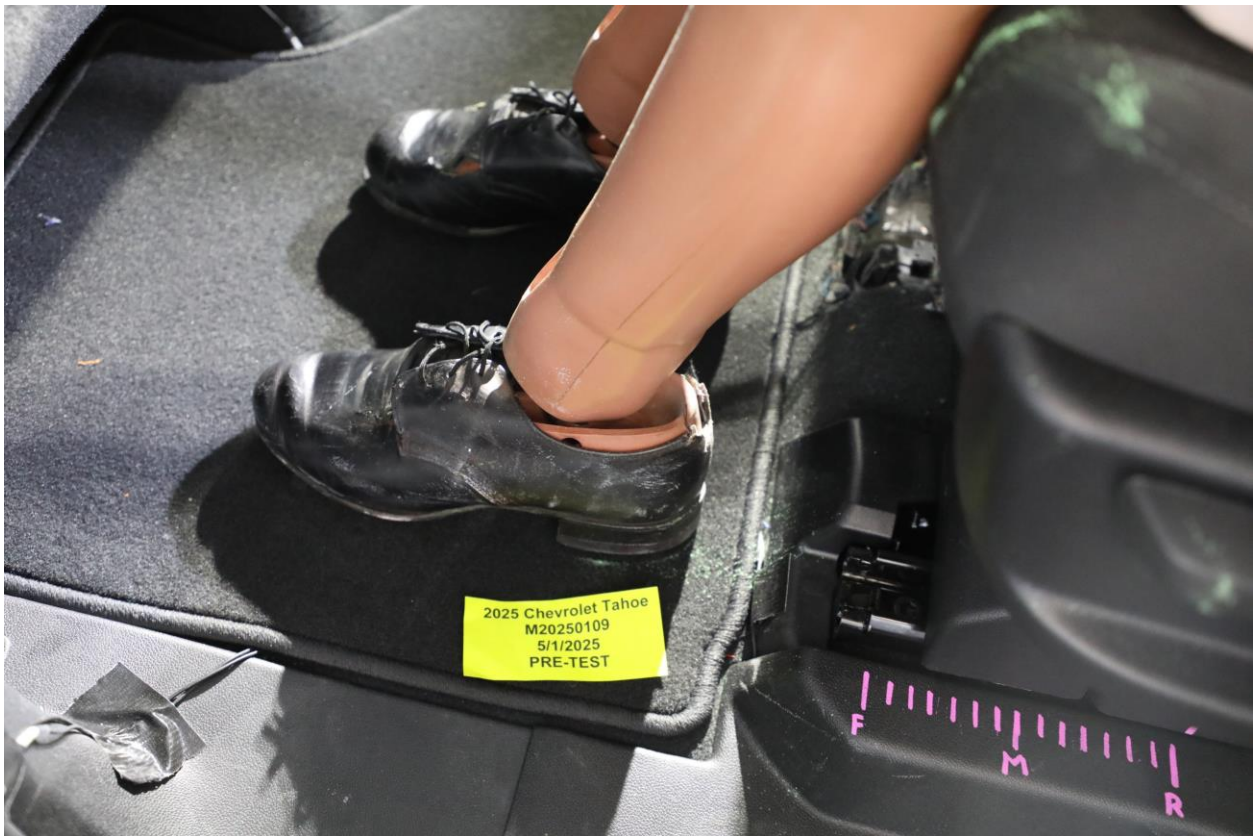
**061** Pre-Test Overhead View of Rear Passenger Dummy Thighs on Seat Pan



**062** Pre-Test View of Rear Passenger Dummy's Neck Showing Position of Adjustable Neck Bracket



**063** Pre-Test View of Rear Passenger Dummy's Head Showing Dummy Head is Level



**064** Pre-Test Placement of Rear Passenger Dummy's Feet



**065** Pre-Test View of Belt Anchorage for Rear Passenger Dummy



**066** Pre-Test Close-Up Left Side View of Rear Passenger Seat Track



**067** Pre-test Close-Up Left Side View of Rear Passenger Seat Back

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**068** Pre-Test Close-Up View of Rear Passenger Seat Back or Head Restraint

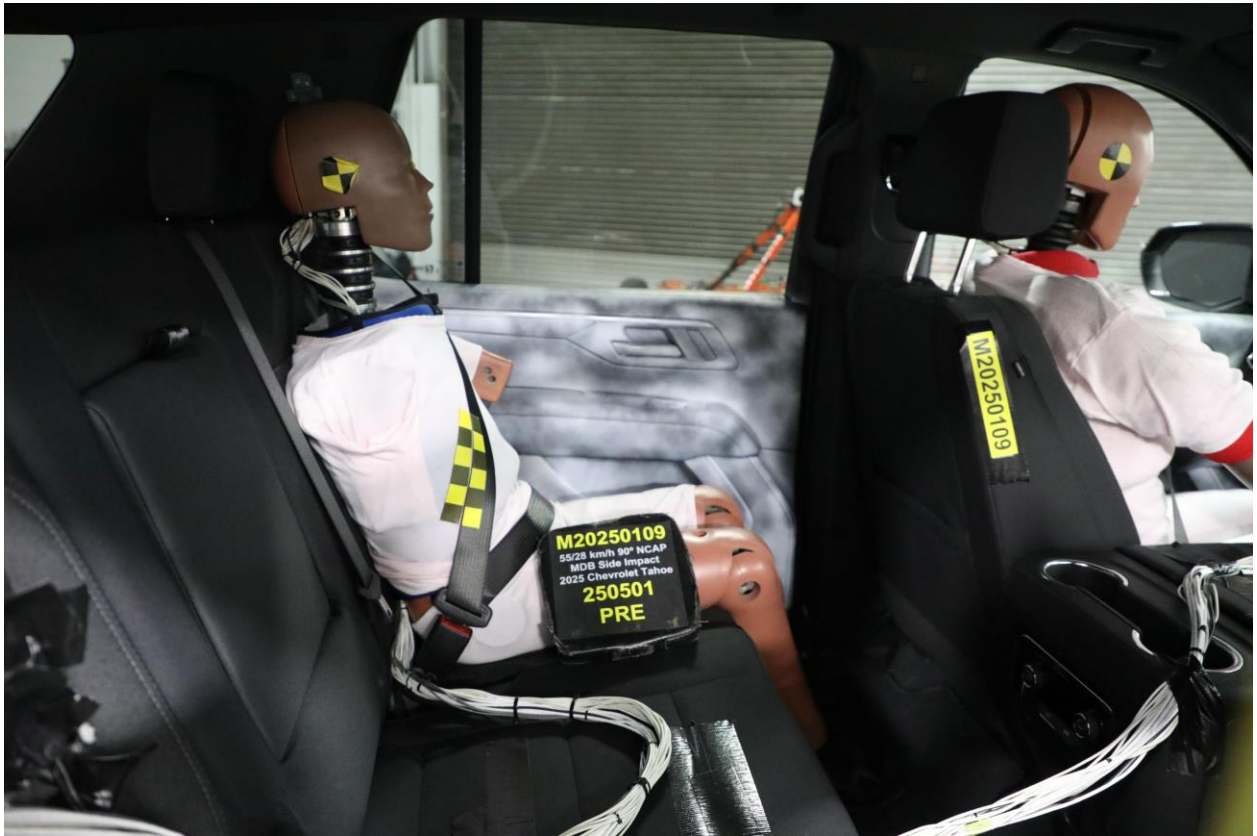
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**069** Pre-Test Rear Passenger Dummy and Door Clearance View



**070** Post-Test Rear Passenger Dummy and Door Clearance View



**071** Pre-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



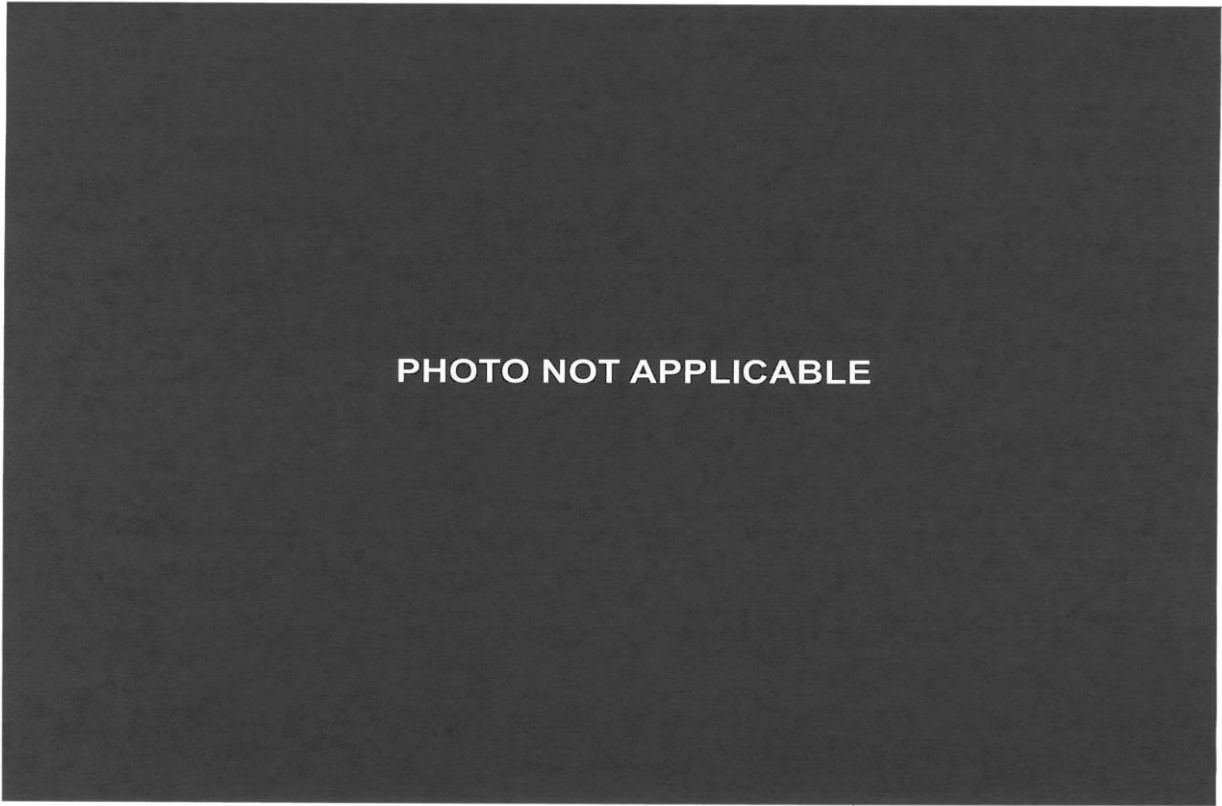
**072** Post-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



**073** Pre-Test Rear Passenger Inner Door Panel View



**074** Post-Test Rear Passenger Inner Door Panel View



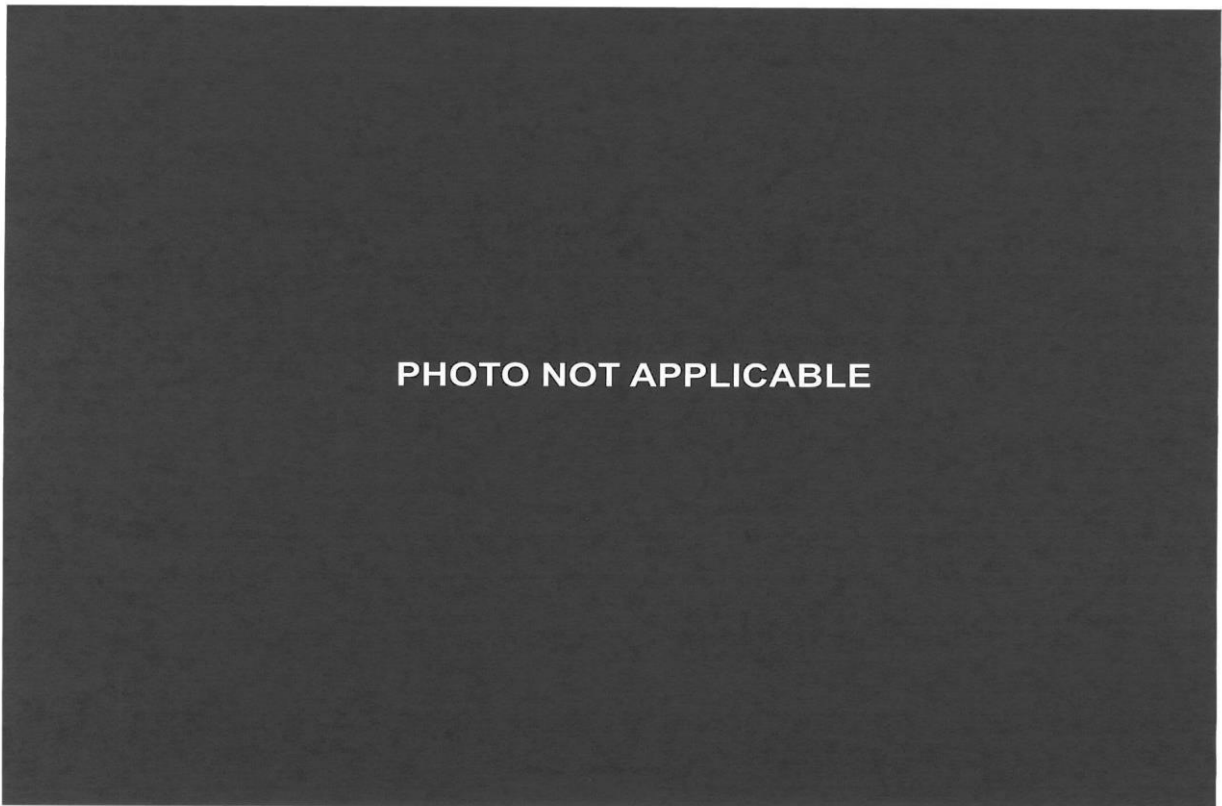
**075** Post-Test Rear Passenger Dummy Close-Up Head Contact with Vehicle View



**076** Post-Test Rear Passenger Dummy Close-Up Head Contact with Side Airbag View



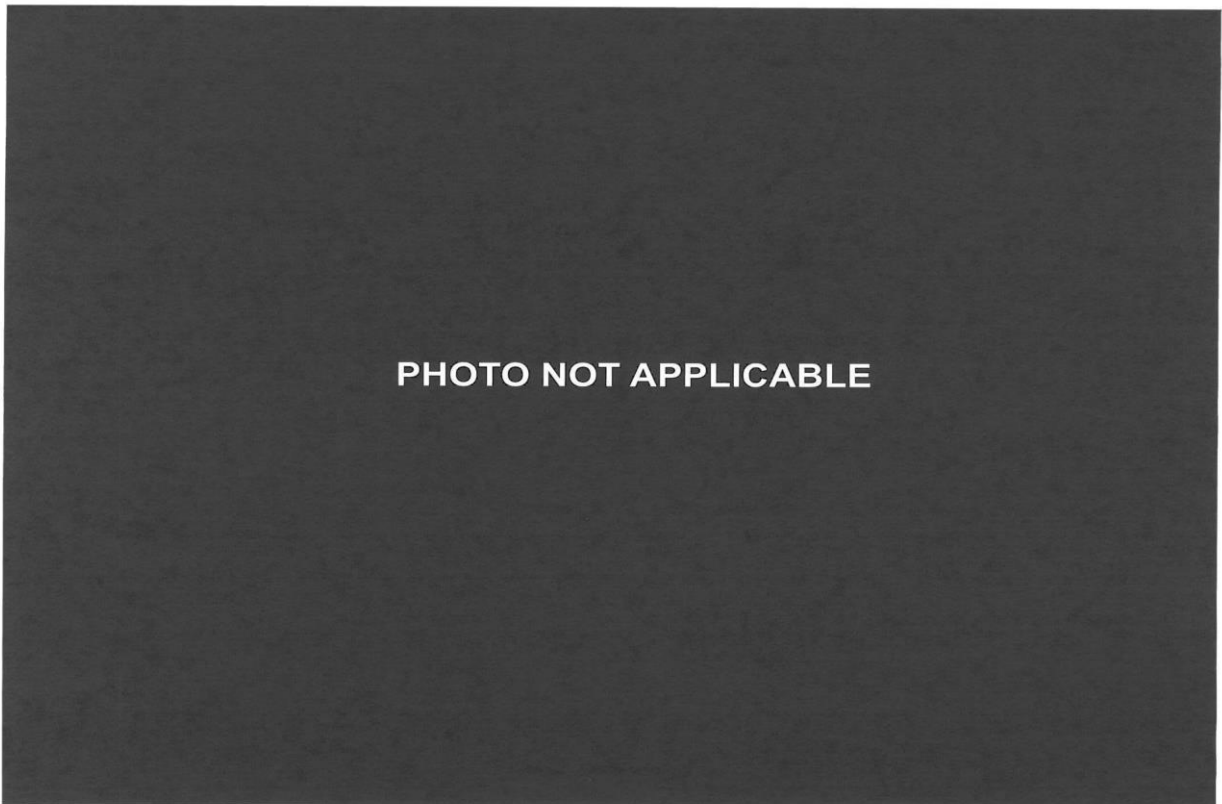
**077** Post-Test Rear Passenger Dummy Close-Up Torso Contact with Vehicle Interior View



**078** Post-Test Rear Passenger Dummy Close-Up Torso Contact with Side Airbag View



**079** Post-Test Rear Passenger Dummy Close-Up Pelvis Contact View



**080** Post-Test Rear Passenger Dummy Close-Up Pelvis Contact with Side Airbag View



**081** Post-Test Rear Passenger Dummy Close-Up Knee Contact View

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**082** Pre-Test View of Fuel Filler Cap or Fuel Filler Neck



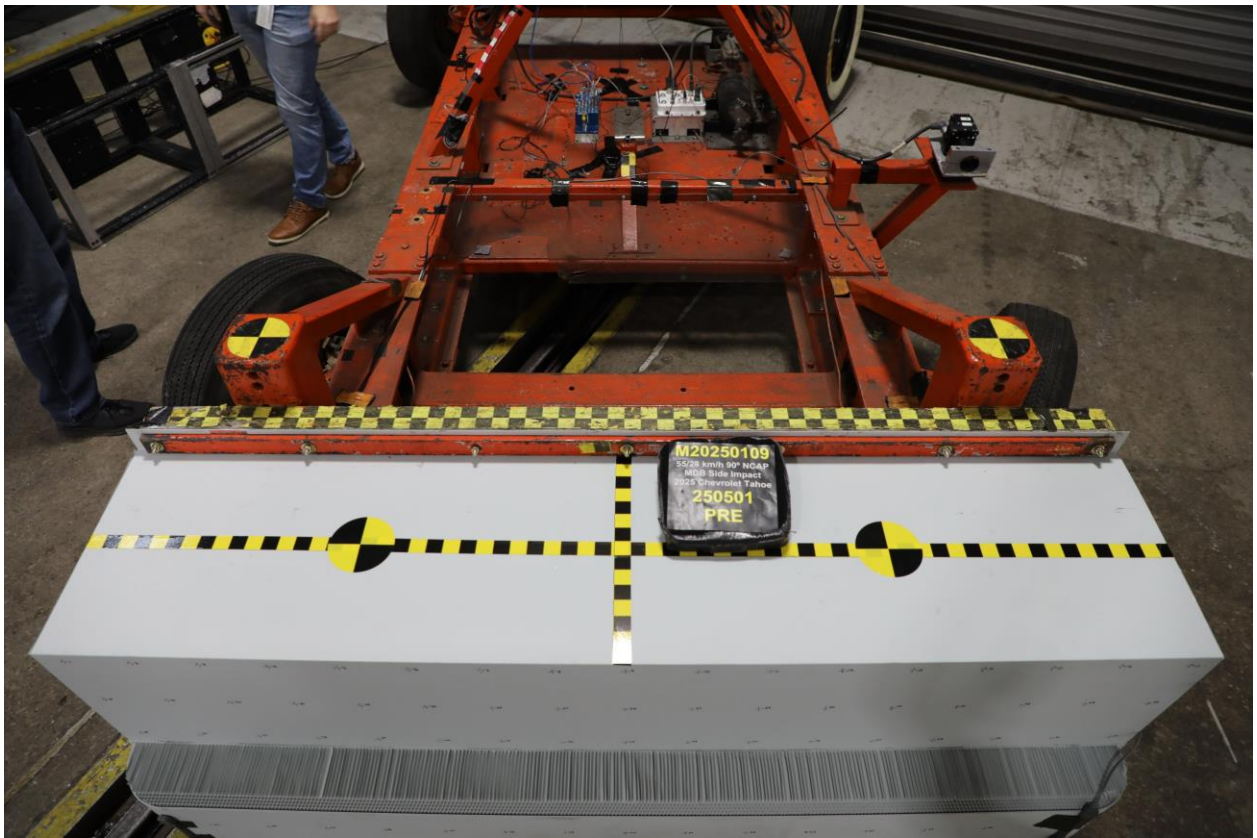
**083** Post-Test View of Fuel Filler Cap or Fuel Filler Neck



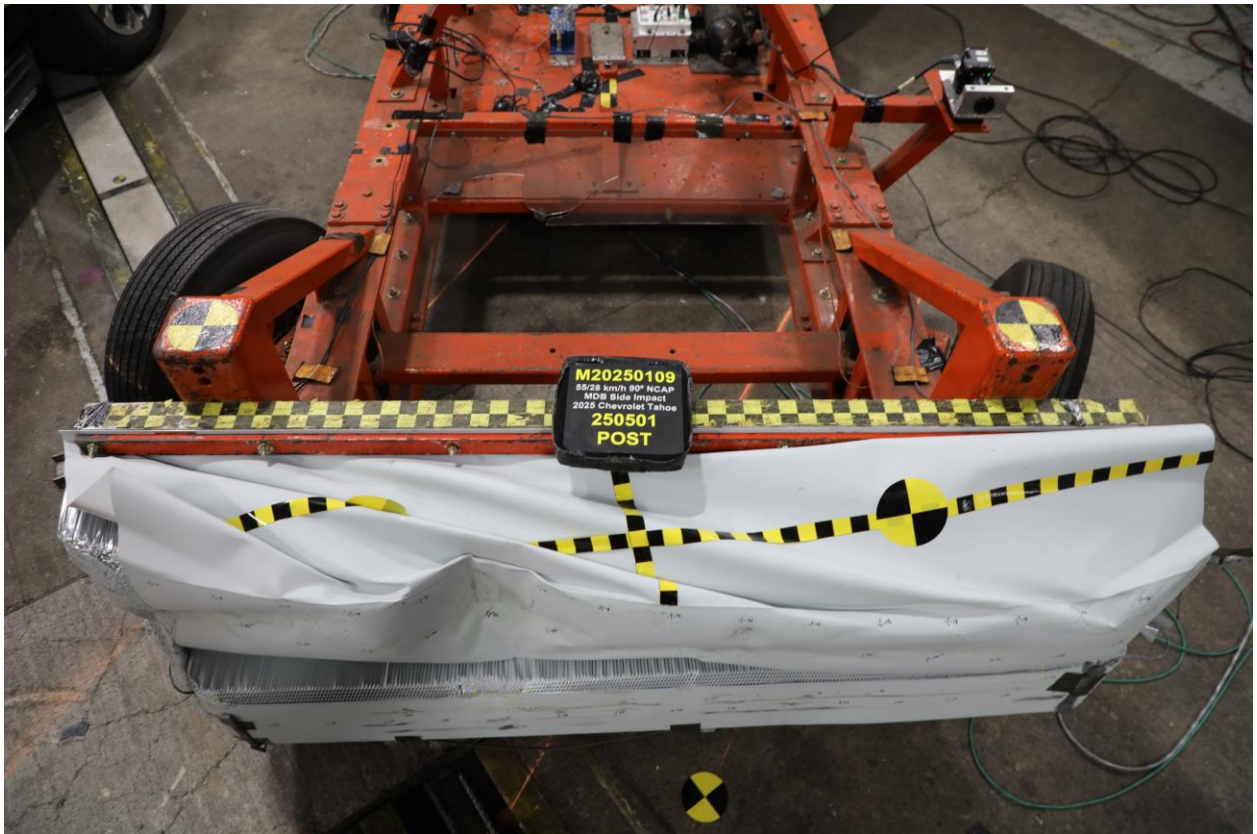
**084** Pre-Test Front View of MDB Impactor Face



**085** Post-Test Front View of MDB Impactor Face



**086** Pre-Test Top View of MDB Impactor Face



**087** Post-Test Top View of MDB Impactor Face



**088** Pre-Test Left Side View of MDB Impactor Face



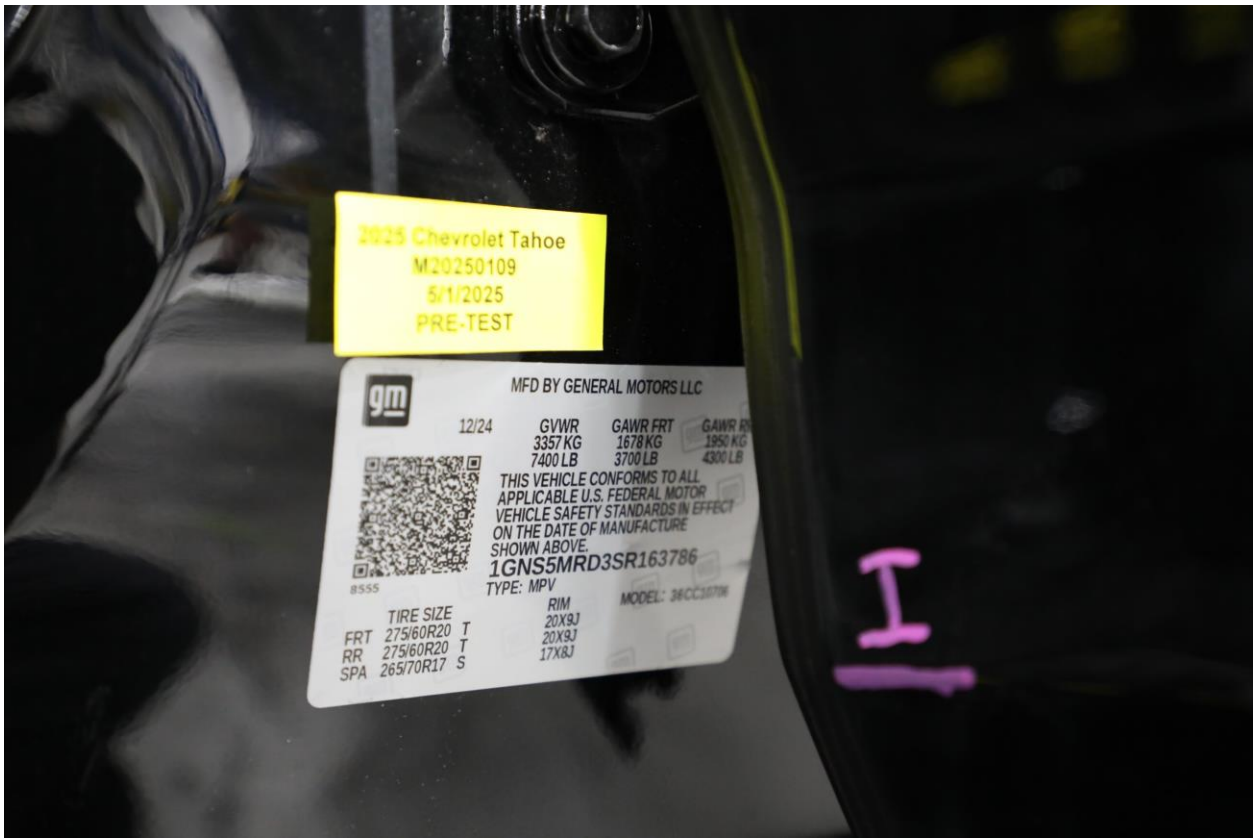
**089** Post-Test Left Side View of MDB Impactor Face



**090** Pre-Test Right Side View of MDB Impactor Face



**091** Post-Test Right Side View of MDB Impactor Face



092 Close-Up View of Vehicle's Certification Label



093 Close-Up View of Vehicle's Tire Information Placard or Label



094 Pre-Test Ballast View



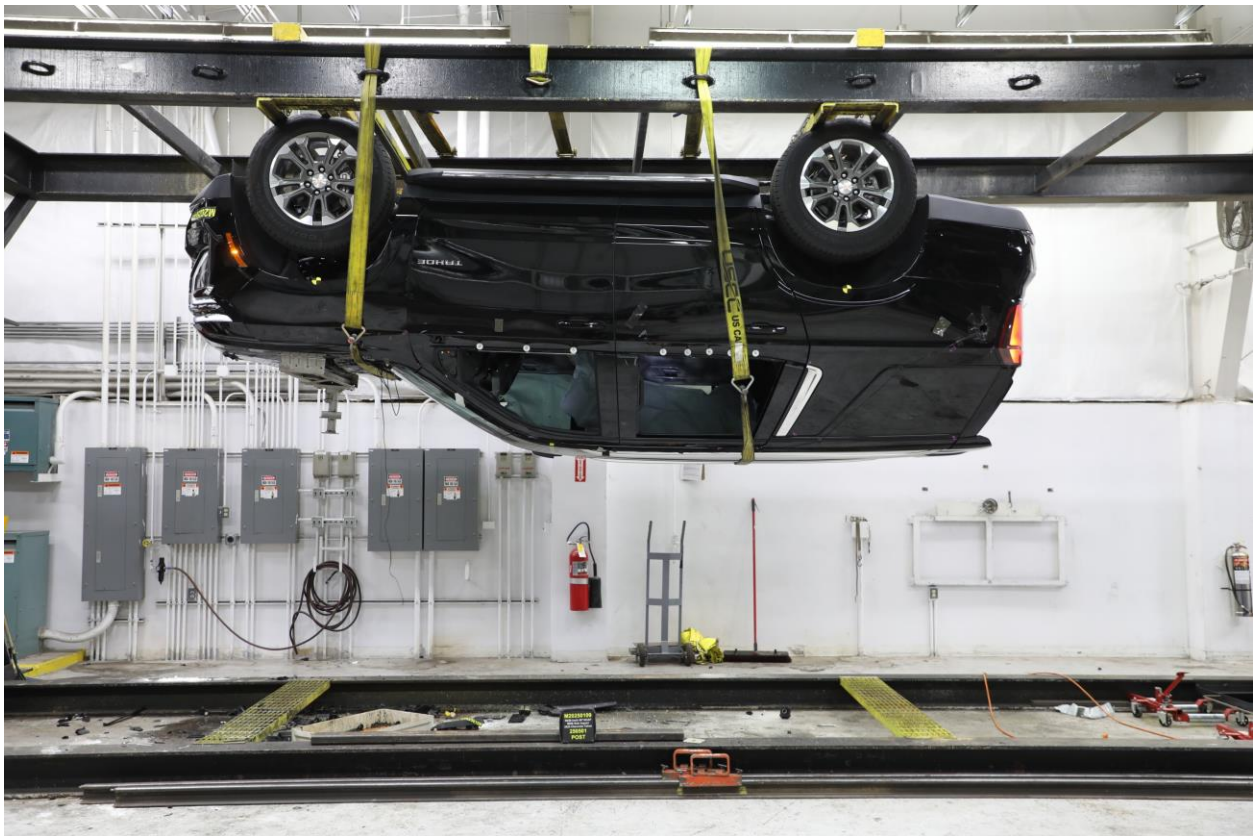
095 No. Post-Test Primary and Redundant Speed Trap Read-Out



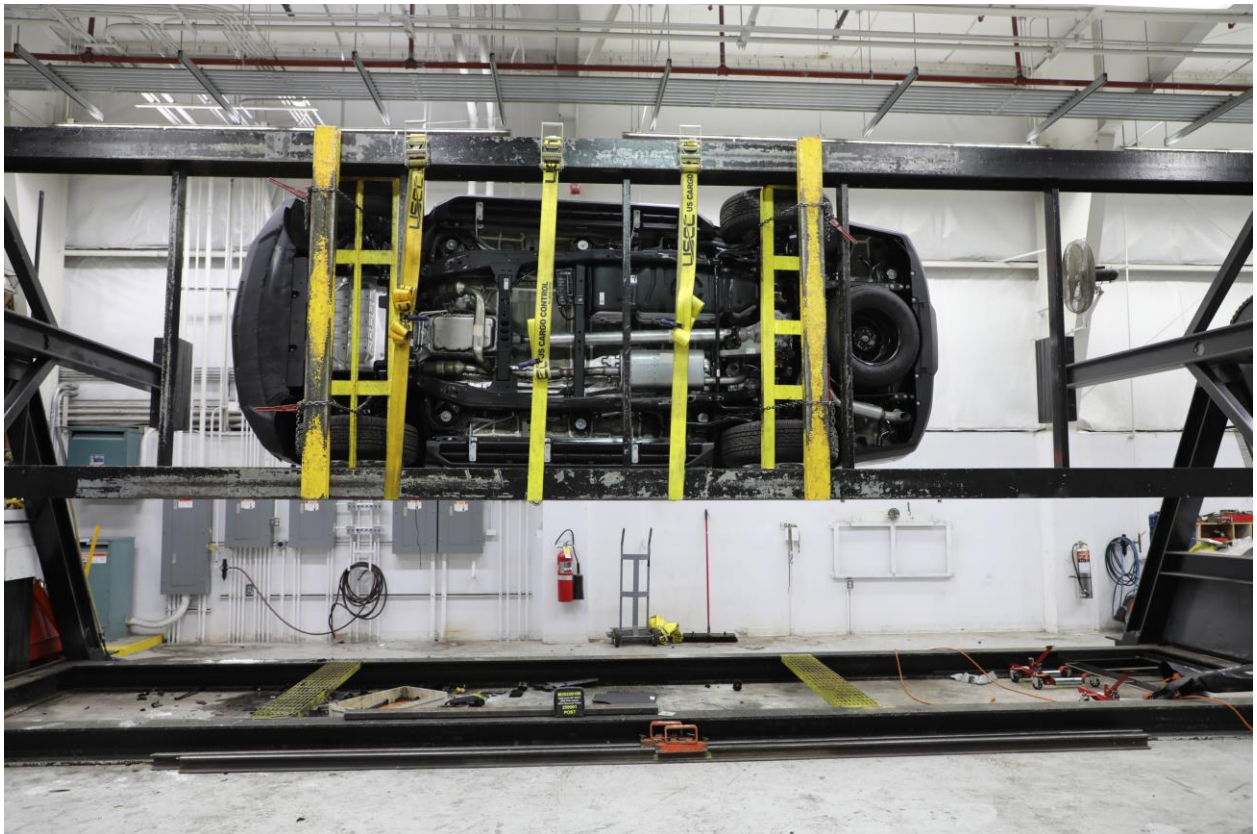
**096** FMVSS No. 301 Static Rollover 0 Degrees



**097** FMVSS No. 301 Static Rollover 90 Degrees



**098** FMVSS No. 301 Static Rollover 180 Degrees



**099** FMVSS No. 301 Static Rollover 270 Degrees



**100** FMVSS No. 301 Static Rollover 360 Degrees



**101** Impact Event



2025 TAHOE 2WD LS

EXTERIOR: BLACK  
INTERIOR: JET BLACK

ENGINE: 5.3L ECOTEC3 V8  
TRANSMISSION: 10-SPEED AUTO

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<p><b>STANDARD EQUIPMENT</b></p> <p>ITEMS LISTED BELOW ARE INCLUDED AT NO EXTRA CHARGE IN THE STANDARD VEHICLE PRICE SHOWN.</p> <p><b>OWNER BENEFITS</b></p> <ul style="list-style-type: none"> <li>3 YEAR / 36,000 MILE* BUMPER-TO-BUMPER LIMITED WARRANTY</li> <li>5 YEARS/100,000 MILE** POWERTRAIN LIMITED WARRANTY, ROADSIDE ASSISTANCE &amp; COURTESY TRANSPORTATION</li> <li>FIRST MAINTENANCE VISIT</li> <li>**WHICHEVER COMES FIRST</li> <li>SEE CHEVROLET.COM OR DEALER FOR TERMS, DETAILS &amp; LIMITS</li> </ul> <p><b>PERFORMANCE &amp; MECHANICAL</b></p> <ul style="list-style-type: none"> <li>ADAPTIVE CRUISE CONTROL</li> <li>PREMIUM SMOOTH RIDE SUSPENSION</li> <li>MECHANICAL LIMITED SLIP DIFFERENTIAL</li> <li>AUTOMATIC STOP/START ENGINE</li> </ul>	<ul style="list-style-type: none"> <li>STABILITRAK TRACTION CONTROL</li> <li>ELECTRONIC PRECISION SHIFT</li> <li>TRAILERING EQUIPMENT</li> </ul> <p><b>CONNECTIVITY &amp; TECHNOLOGY</b></p> <ul style="list-style-type: none"> <li>8 YEARS ONSTAR BASICS</li> <li>SEE ONSTAR.COM FOR TERMS</li> <li>KEYLESS OPEN, LOCK &amp; START</li> <li>REMOTE VEHICLE START</li> <li>TWO POWER OUTLETS, 120 VOLT</li> <li>SIRIUSXM AUDIO WITH TRIAL</li> <li>SEE SIRIUSXM.COM/TERMS</li> <li>17.7" DIAG ADVANCED COLOR LCD DISPLAY WITH GOOGLE BUILT-IN COMPATIBILITY INCLUDING NAV CAPABILITY, CONNECTED APPS</li> <li>WIRELESS APPLE CARPLAY AND WIRELESS ANDROID AUTO FOR COMPATIBLE PHONES</li> </ul> <p><b>INTERIOR</b></p> <ul style="list-style-type: none"> <li>TR-ZONE AUTOMATIC HVAC</li> <li>CLOTH FRONT BUCKET POWER SEATS</li> </ul>	<ul style="list-style-type: none"> <li>SECOND ROW 60/40 SPLIT FOLDING BENCH</li> <li>THIRD ROW 60/40 SPLIT BENCH, MANUAL FOLD</li> </ul> <p><b>EXTERIOR</b></p> <ul style="list-style-type: none"> <li>LED HEADLAMPS &amp; TAILLAMPS</li> <li>LED DAYTIME RUNNING LAMPS</li> <li>POWER ADJUSTABLE OUTSIDE MIRRORS, HEATED</li> </ul> <p><b>SAFETY &amp; SECURITY</b></p> <ul style="list-style-type: none"> <li>ENHANCED AUTOMATIC EMERGENCY BRAKING</li> <li>FRONT PEDESTRIAN AND BICYCLIST BRAKING</li> <li>FORWARD COLLISION ALERT</li> <li>BLIND ZONE STEERING ASSIST</li> <li>INTELLIBEAM</li> <li>HD SURROUND VISION</li> <li>ENHANCED AUTOMATIC PARKING ASSIST</li> <li>REAR CROSS TRAFFIC BRAKING</li> <li>REAR PEDESTRIAN ALERT</li> </ul>	<ul style="list-style-type: none"> <li>SAFETY ALERT SEAT</li> <li>THEFT DETECTION SYSTEM</li> </ul> <p>MANUFACTURER'S SUGGESTED RETAIL PRICE</p> <p><b>STANDARD VEHICLE PRICE \$58,500.00</b></p> <p><b>OPTIONS &amp; PRICING</b></p> <p>OPTIONS INSTALLED BY THE MANUFACTURER MAY REPLACE STANDARD EQUIPMENT PRICING:</p> <ul style="list-style-type: none"> <li>20" MACHINED ALUMINUM WHEELS 1,100.00</li> <li>W/ CHARCOAL POCKETS</li> </ul> <p>TOTAL OPTIONS \$1,100.00 TOTAL VEHICLE &amp; OPTIONS \$59,600.00 DESTINATION CHARGE 1,995.00</p> <p><b>TOTAL VEHICLE PRICE* \$61,595.00</b></p>	<p>This label has been applied pursuant to Federal Motor Vehicle Safety Standard 119. It is not to be removed prior to delivery to the ultimate purchaser. Includes Manufacturer's Recommended tire pressure, Gross and Net Weight, Maximum Capacity, and accessories not listed above that exceed or exceed below.</p> <p><b>FOR VEHICLES IN THIS CARLINE:</b> U.S./CANADIAN PARTS CONTENT: 37% MAJOR SOURCES OF FOREIGN PARTS CONTENT: MEXICO 37%</p> <p>NOTE: PARTS CONTENT DOES NOT INCLUDE FINAL ASSEMBLY, DISTRIBUTION, OR OTHER NON-PARTS COSTS.</p> <p><b>FOR THIS VEHICLE:</b> FINAL ASSEMBLY POINT: ARLINGTON, TX U.S.A. COUNTRY OF ORIGIN: U.S.A. ENGINE: UNITED STATES TRANSMISSION: UNITED STATES</p> <p>ORDER AND DRIVAGE: SALES CODE E SALES MODEL CODE: CC10706 DEALER NO: 13086 FINAL ASSEMBLY: ARLINGTON, TX U.S.A. VIN 1GN55MD3SR163786 DEALER TO WHOM ORDERED: R. K. CHEVROLET, INC. 2661 VIRGINIA BEACH BLVD VIRGINIA BEACH, VA 23462-7617</p> <p>© 2024 General Motors LLC GM-USA-PRC-2024-338283H</p> <p><b>RR</b> 1A21506838</p>
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<p><b>EPA DOT Fuel Economy and Environment</b></p> <p>TAHOE 2WD</p> <p><b>Fuel Economy</b></p> <p><b>17</b> MPG combined city/hwy</p> <p><b>15</b> MPG city</p> <p><b>20</b> MPG highway</p> <p>5.9 gallons per 100 miles</p> <p><b>You spend \$6,000 more in fuel costs over 5 years</b> compared to the average new vehicle.</p> <p><b>Annual fuel cost \$3,100</b></p> <p><b>Fuel Economy &amp; Greenhouse Gas Rating</b> (range only)</p> <p><b>Smog Rating</b> (range only)</p> <p>Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 24 MPG and costs \$5,500 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at 83.5¢ per gallon. MPGe is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.</p> <p><a href="http://fuelconomy.gov">fuelconomy.gov</a> Calculate personalized estimates and compare vehicles</p>	<p><b>Gasoline Vehicle</b></p> <p><b>GOVERNMENT 5-STAR SAFETY RATINGS</b></p> <p>Overall Vehicle Score: Not Rated Based on the combined ratings of frontal, side and rollover. Should ONLY be compared to other vehicles of similar size and weight.</p> <table border="1"> <tr> <th>Frontal Crash</th> <th>Driver Passenger</th> <th>Not Rated</th> </tr> <tr> <td colspan="3">Based on the risk of injury in a frontal impact. Should ONLY be compared to other vehicles of similar size and weight.</td> </tr> <tr> <th>Side Crash</th> <th>Front seat Rear seat</th> <th>Not Rated</th> </tr> <tr> <td colspan="3">Based on the risk of injury in a side impact.</td> </tr> <tr> <th>Rollover</th> <th colspan="2">★★★</th> </tr> <tr> <td colspan="3">Based on the risk of rollover in a single-vehicle crash.</td> </tr> </table> <p>Star ratings range from 1 to 5 stars (★★★★★) with 5 being the highest. Source: National Highway Traffic Safety Administration (NHTSA) <a href="http://www.safercar.gov">www.safercar.gov</a> or 1-888-327-4238</p> <p>Equipped with the safety and security of OnStar®. Visit <a href="http://onstar.com">onstar.com</a> for details. <a href="http://onstar.com/privacy">onstar.com/privacy</a></p>	Frontal Crash	Driver Passenger	Not Rated	Based on the risk of injury in a frontal impact. Should ONLY be compared to other vehicles of similar size and weight.			Side Crash	Front seat Rear seat	Not Rated	Based on the risk of injury in a side impact.			Rollover	★★★		Based on the risk of rollover in a single-vehicle crash.			<p><b>PARTS CONTENT INFORMATION</b></p> <p><b>FOR VEHICLES IN THIS CARLINE:</b> U.S./CANADIAN PARTS CONTENT: 37% MAJOR SOURCES OF FOREIGN PARTS CONTENT: MEXICO 37%</p> <p>NOTE: PARTS CONTENT DOES NOT INCLUDE FINAL ASSEMBLY, DISTRIBUTION, OR OTHER NON-PARTS COSTS.</p> <p><b>FOR THIS VEHICLE:</b> FINAL ASSEMBLY POINT: ARLINGTON, TX U.S.A. COUNTRY OF ORIGIN: U.S.A. ENGINE: UNITED STATES TRANSMISSION: UNITED STATES</p> <p>© 2024 General Motors LLC GM-USA-PRC-2024-338283H</p> <p><b>RR</b> 1A21506838</p>
Frontal Crash	Driver Passenger	Not Rated																		
Based on the risk of injury in a frontal impact. Should ONLY be compared to other vehicles of similar size and weight.																				
Side Crash	Front seat Rear seat	Not Rated																		
Based on the risk of injury in a side impact.																				
Rollover	★★★																			
Based on the risk of rollover in a single-vehicle crash.																				

102 Monroney Label

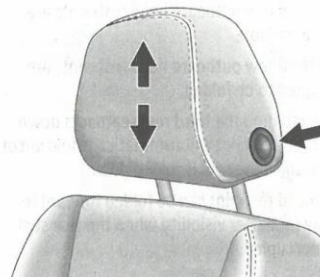
Seats and Restraints 13



Adjust the head restraint so that the top of the restraint is at the same height as the top of the occupant's head. This position reduces the chance of a neck injury in a crash.

**Front Seats**

The vehicle's front seats have adjustable head restraints in the outboard seating positions.



The height of the head restraint can be adjusted.

To raise or lower the head restraint, press the button located on the side of the head restraint and pull up or push the head restraint down, and release the button. Pull and push on the head restraint after the button is released to make sure that it is locked in place.

The front seat outboard head restraints are not removable.

**Rear Seats**

**Second Row Seats**

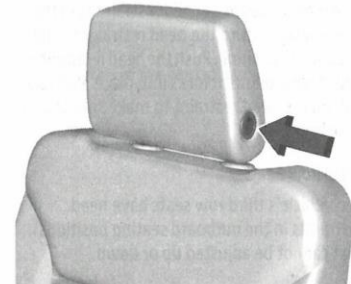
The vehicle's second row seats have head restraints in the outboard seating positions that cannot be adjusted.

The second row outboard head restraints are not removable.

The second row outboard head restraints are designed to be folded.

When folding the second row seatbacks down, the head restraint will automatically fold out of the way as the seat is folded down.

The second row outboard head restraints can be folded forward to allow for better visibility when the rear seat is unoccupied.



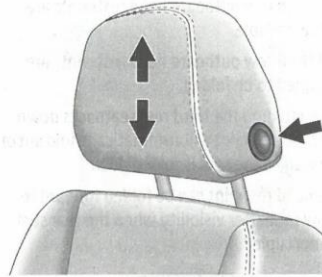
103 Driver Head Restraint Use and Adjustment Information from Vehicle Owner's Manual



Adjust the head restraint so that the top of the restraint is at the same height as the top of the occupant's head. This position reduces the chance of a neck injury in a crash.

#### Front Seats

The vehicle's front seats have adjustable head restraints in the outboard seating positions.



The height of the head restraint can be adjusted.

To raise or lower the head restraint, press the button located on the side of the head restraint and pull up or push the head restraint down, and release the button. Pull and push on the head restraint after the button is released to make sure that it is locked in place.

The front seat outboard head restraints are not removable.

#### Rear Seats

##### Second Row Seats

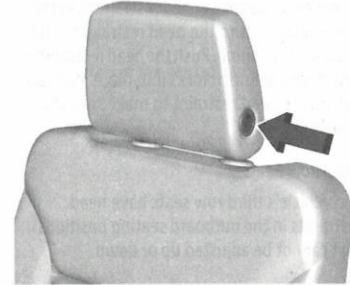
The vehicle's second row seats have head restraints in the outboard seating positions that cannot be adjusted.

The second row outboard head restraints are not removable.

The second row outboard head restraints are designed to be folded.

When folding the second row seatbacks down, the head restraint will automatically fold out of the way as the seat is folded down.

The second row outboard head restraints can be folded forward to allow for better visibility when the rear seat is unoccupied.



**104** Left Rear Passenger Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

**APPENDIX B**  
**VEHICLE AND DUMMY RESPONSE DATA PLOTS**

## TABLE OF DATA PLOTS

### Driver & Passenger Dummy Instrumentation Plots

<b>No.</b>	<b>Description</b>	<b>Page</b>
<b>1</b>	Driver Head Acceleration (X) Primary vs. Time	<b>B-5</b>
<b>2</b>	Driver Head Acceleration (Y) Primary vs. Time	<b>B-5</b>
<b>3</b>	Driver Head Acceleration (Z) Primary vs. Time	<b>B-5</b>
<b>4</b>	Driver Head Resultant Acceleration Primary vs. Time	<b>B-5</b>
<b>5</b>	Driver Upper Thorax Rib Deflection (Y) vs. Time	<b>B-6</b>
<b>6</b>	Driver Middle Thorax Rib Deflection (Y) vs. Time	<b>B-6</b>
<b>7</b>	Driver Lower Thorax Rib Deflection (Y) vs. Time	<b>B-6</b>
<b>8</b>	Driver Thorax Rib Deflection Maximum vs. Time	<b>B-6</b>
<b>9</b>	Driver Anterior Abdominal Force (Y) vs. Time	<b>B-7</b>
<b>10</b>	Driver Middle Abdominal Force (Y) vs. Time	<b>B-7</b>
<b>11</b>	Driver Posterior Abdominal Force (Y) vs. Time	<b>B-7</b>
<b>12</b>	Driver Total Abdominal Force (Y) vs. Time	<b>B-7</b>
<b>13</b>	Driver Pubic Symphysis Force (Y) vs. Time	<b>B-8</b>
<b>14</b>	Passenger Head Acceleration (X) Primary vs. Time	<b>B-9</b>
<b>15</b>	Passenger Head Acceleration (Y) Primary vs. Time	<b>B-9</b>
<b>16</b>	Passenger Head Acceleration (Z) Primary vs. Time	<b>B-9</b>
<b>17</b>	Passenger Head Resultant Acceleration Primary vs. Time	<b>B-9</b>
<b>18</b>	Passenger Lower Spine T12 Acceleration (X) vs. Time	<b>B-10</b>
<b>19</b>	Passenger Lower Spine T12 Acceleration (Y) vs. Time	<b>B-10</b>
<b>20</b>	Passenger Lower Spine T12 Acceleration (Z) vs. Time	<b>B-10</b>
<b>21</b>	Passenger Lower Spine T12 Resultant Acceleration vs. Time	<b>B-10</b>
<b>22</b>	Passenger Iliac Force on Impact Side (Y) vs. Time	<b>B-11</b>
<b>23</b>	Passenger Acetabulum Force on Impact Side (Y) vs. Time	<b>B-11</b>
<b>24</b>	Passenger Total Pelvic Force on Impact Side (Y) vs. Time	<b>B-11</b>

The following additional data can be obtained from the Research and Development section of the NHTSA website ([www.nhtsa.gov](http://www.nhtsa.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)  
Passenger Head Angular Velocity (X)  
Passenger Head Angular Velocity (Y)  
Passenger Head Angular Velocity (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

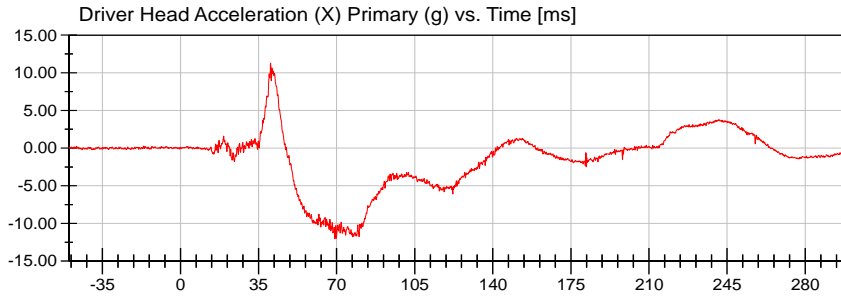
MDB Center of Gravity Acceleration (X)  
MDB Center of Gravity Acceleration (Y)  
MDB Center of Gravity Acceleration (Z)  
MDB Rear Acceleration (X)  
MDB Rear Acceleration (Y)  
Left MDB Contact Switch  
Right MDB Contact Switch

# NHTSA

Test Lab: CTF  
Test Number: 250501 (M20250109)

Test Date: 05/01/2025

Position #1 ES-2 Dummy with Rib Extension (F030)  
Position #4 SID IIs Dummy (DQ0570)



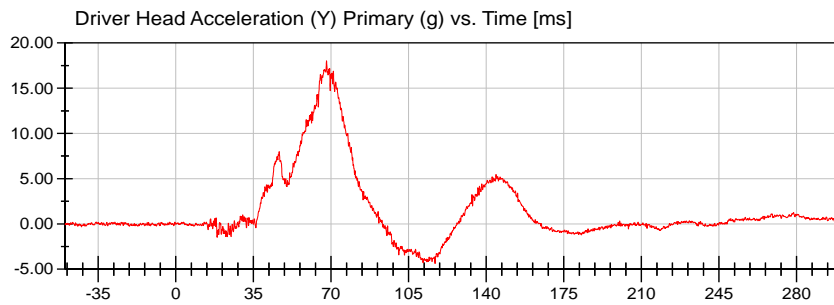
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11.30 g at 40.40 ms

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-12.05 g at 69.20 ms

CFC\_1000



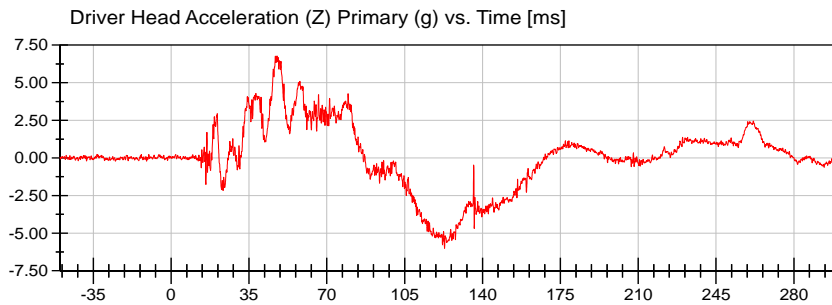
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CFC\_1000



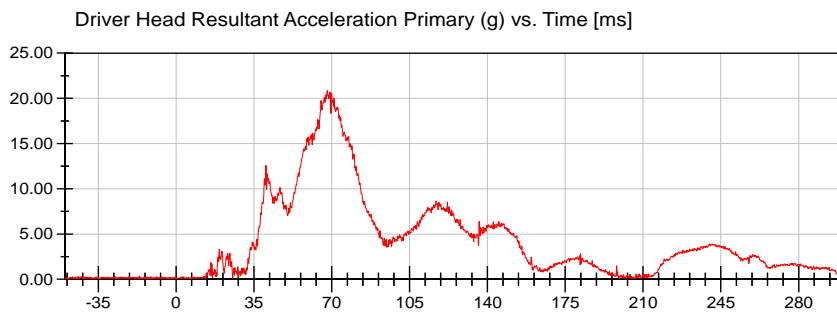
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6.79 g at 47.60 ms

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-6.00 g at 122.90 ms

CFC\_1000



**<Max>**

20.86 g at 67.95 ms

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0.02 g at -1.95 ms

CFC\_1000



# NHTSA

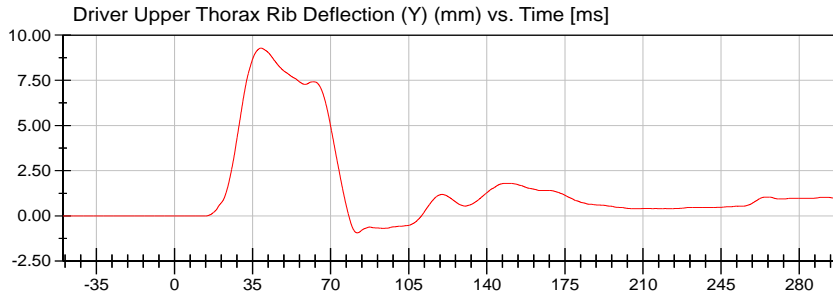
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Test Number: 250501 (M20250109)

Test Date: 05/01/2025

Position #1 ES-2 Dummy with Rib Extension (F030)

Position #4 SID IIs Dummy (DQ0570)



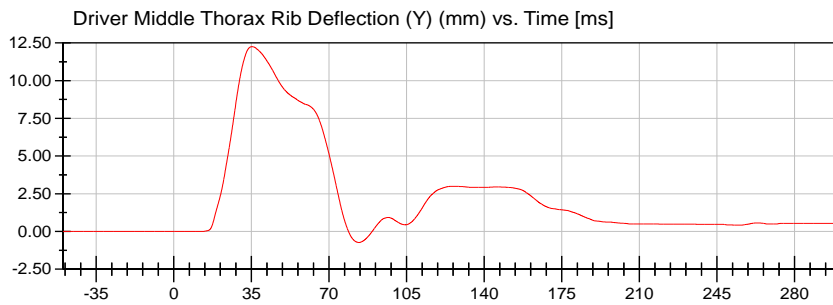
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9.28 mm at 38.75 ms

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-0.94 mm at 81.90 ms

CFC\_180



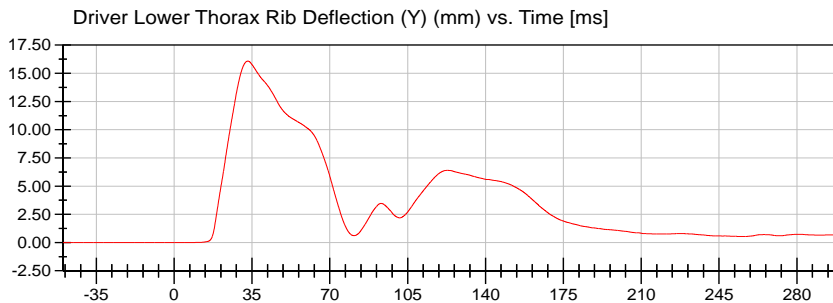
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12.25 mm at 35.30 ms

**<Min>**

-0.73 mm at 83.50 ms

CFC\_180



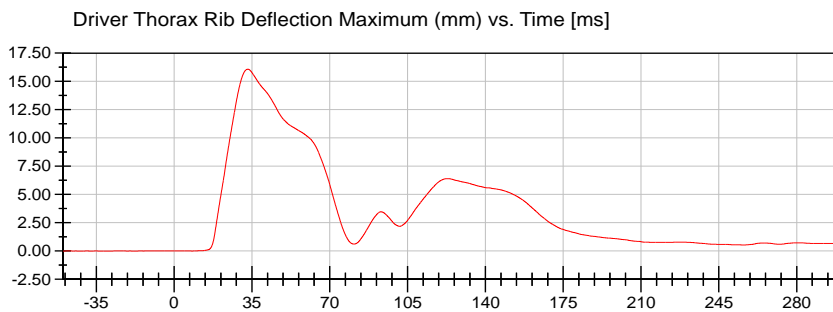
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16.08 mm at 33.15 ms

**<Min>**

0.00 mm at -50.00 ms

CFC\_180



**<Max>**

16.08 mm at 33.15 ms

**<Min>**

0.00 mm at -50.00 ms

CFC\_180

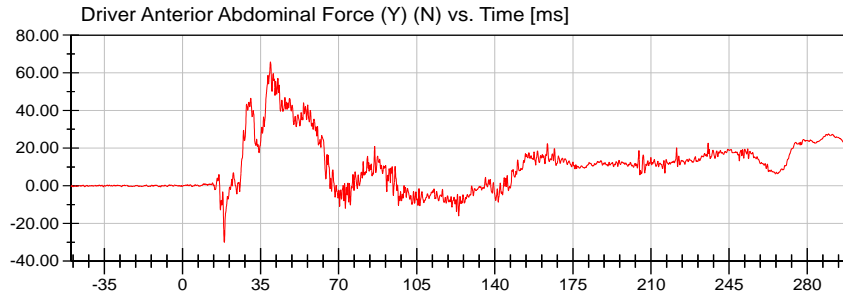


# NHTSA

Test Lab: CTF  
Test Number: 250501 (M20250109)

Test Date: 05/01/2025

Position #1 ES-2 Dummy with Rib Extension (F030)  
Position #4 SID IIs Dummy (DQ0570)



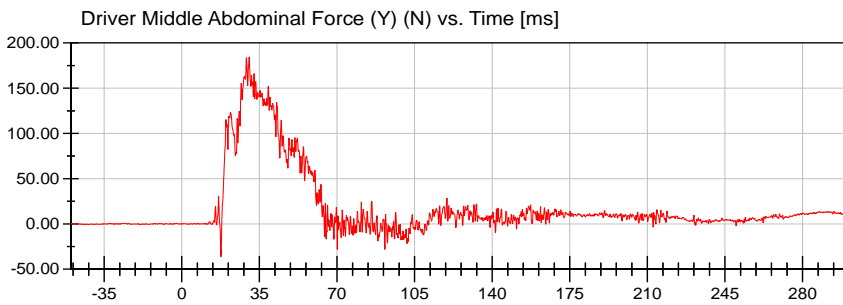
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65.73 N at 39.40 ms

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-30.00 N at 18.75 ms

CFC\_600



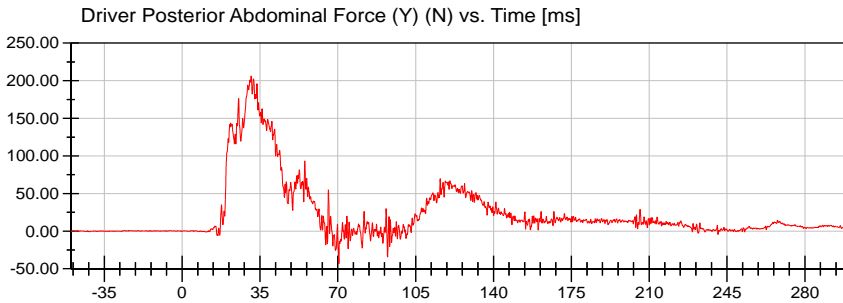
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184.57 N at 30.40 ms

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-36.23 N at 17.65 ms

CFC\_600



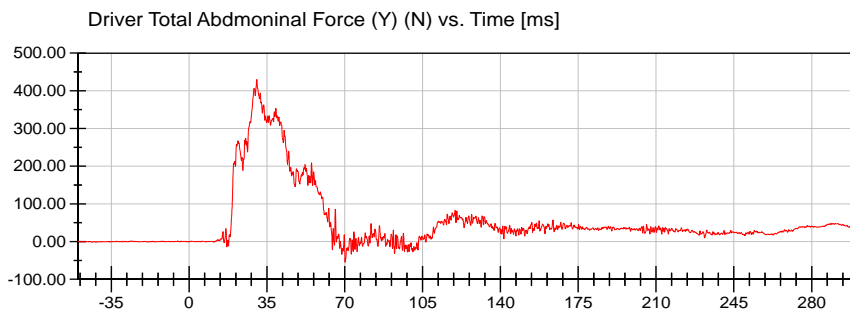
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206.24 N at 31.05 ms

**<Min>**

-43.22 N at 70.45 ms

CFC\_600



**<Max>**

429.97 N at 30.40 ms

**<Min>**

-54.49 N at 70.15 ms

CFC\_600



**NHTSA**

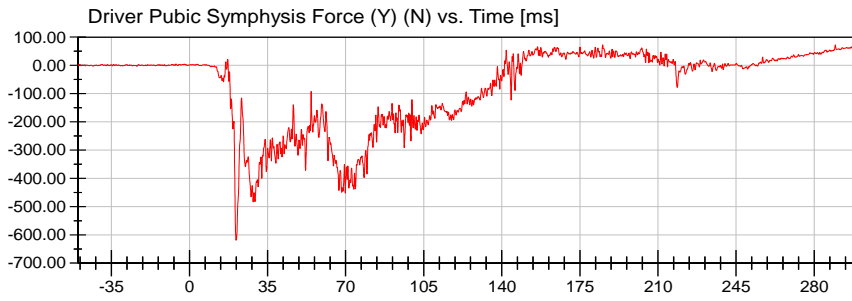
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Test Number: 250501 (M20250109)

Test Date: 05/01/2025

Position #1 ES-2 Dummy with Rib Extension (F030)

Position #4 SID IIs Dummy (DQ0570)



**<Max>**

81.81 N at 299.65 ms

**<Min>**

-619.08 N at 20.85 ms

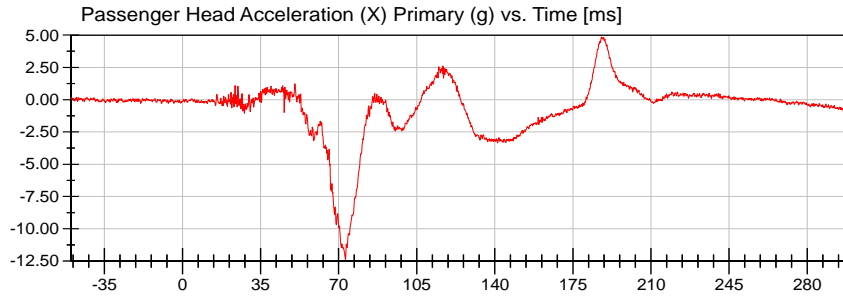
CFC\_600



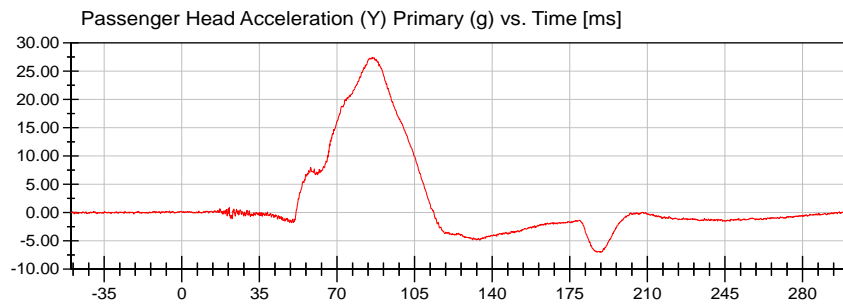
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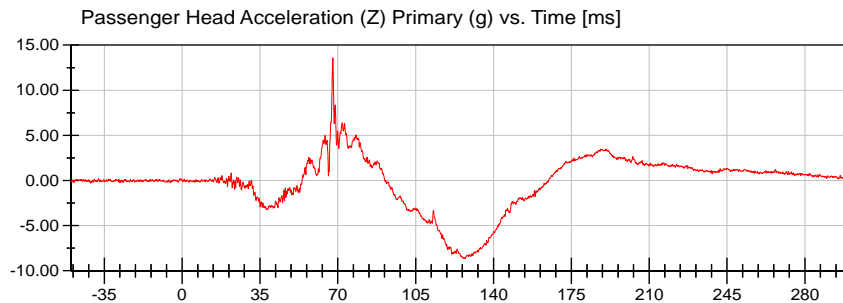
Test Date: 05/01/2025  
Position #1 ES-2 Dummy with Rib Extension (F030)  
Position #4 SID IIs Dummy (DQ0570)



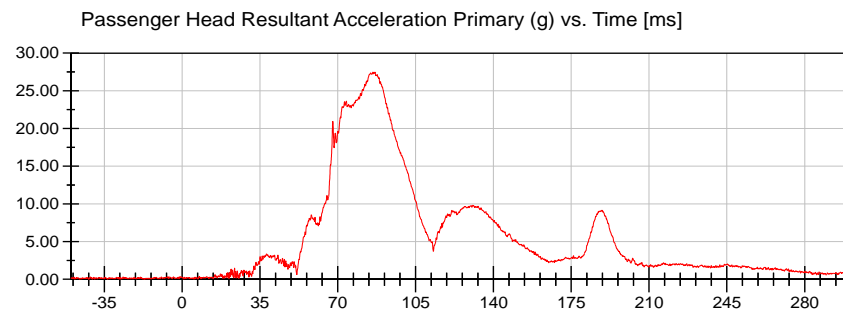
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-12.38 g at 73.05 ms  
CFC\_1000



**<Max>**  
27.44 g at 85.85 ms  
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-7.06 g at 188.90 ms  
CFC\_1000



**<Max>**  
13.60 g at 67.75 ms  
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-8.64 g at 126.20 ms  
CFC\_1000



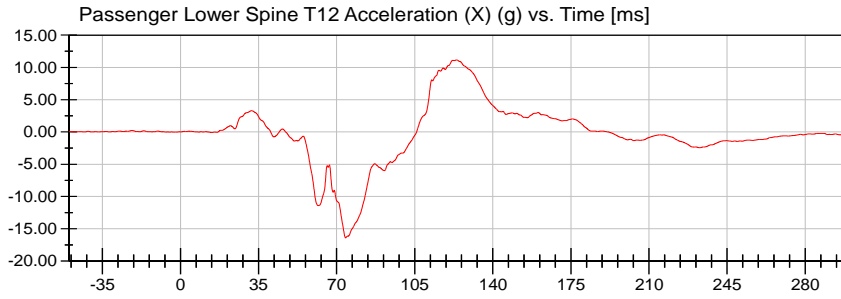
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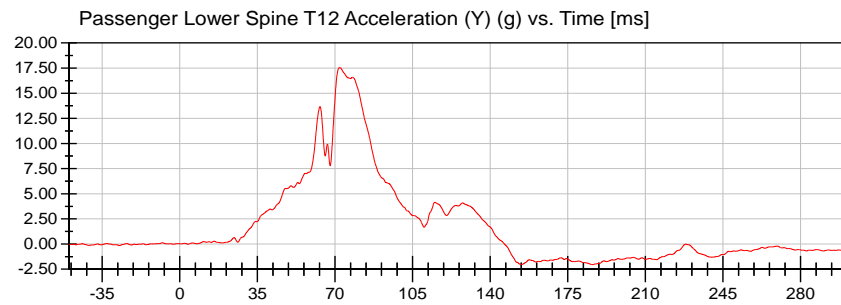
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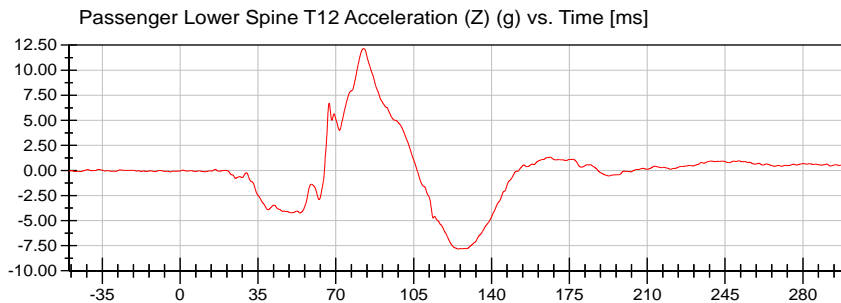
Test Date: 05/01/2025  
Position #1 ES-2 Dummy with Rib Extension (F030)  
Position #4 SID IIs Dummy (DQ0570)



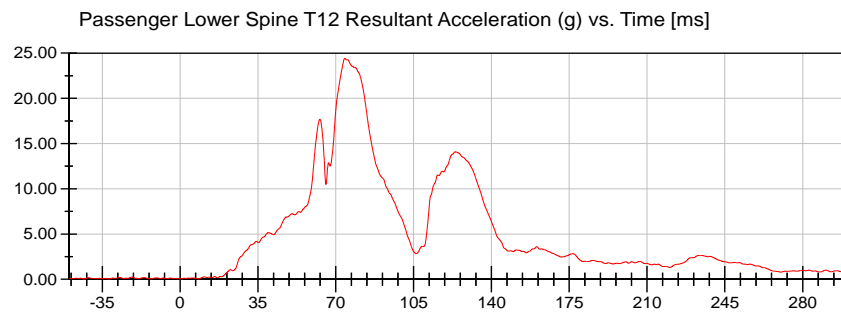
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11.15 g at 123.70 ms  
**<Min>**  
-16.40 g at 74.00 ms  
CFC\_180



**<Max>**  
17.54 g at 72.15 ms  
**<Min>**  
-2.05 g at 186.20 ms  
CFC\_180



**<Max>**  
12.14 g at 82.50 ms  
**<Min>**  
-7.82 g at 125.05 ms  
CFC\_180



**<Max>**  
24.42 g at 74.05 ms  
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0.01 g at -43.25 ms  
CFC\_180



# NHTSA

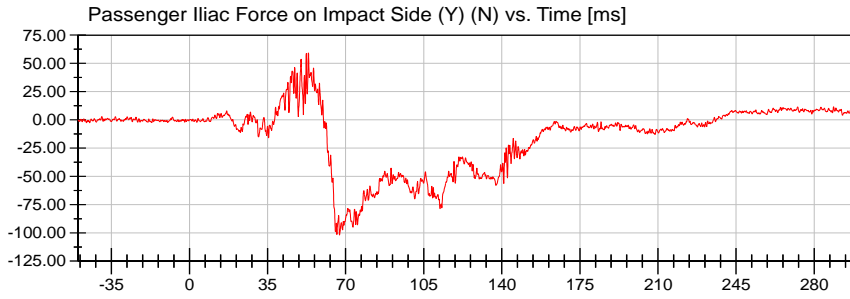
Test Lab: CTF

Test Number: 250501 (M20250109)

Test Date: 05/01/2025

Position #1 ES-2 Dummy with Rib Extension (F030)

Position #4 SID IIs Dummy (DQ0570)



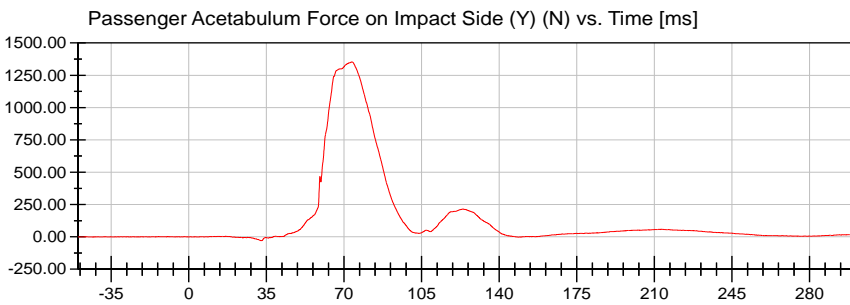
**<Max>**

59.25 N at 53.30 ms

**<Min>**

-101.90 N at 67.25 ms

CFC\_600



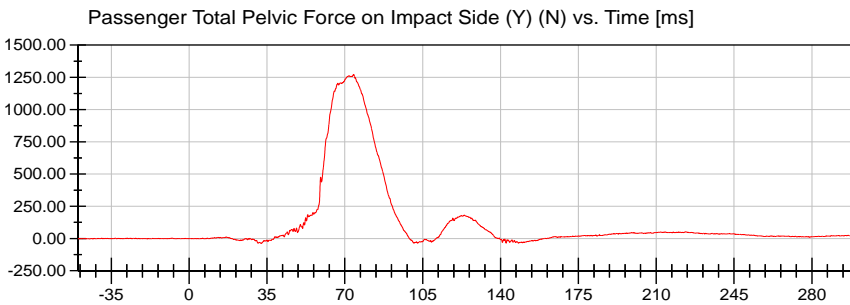
**<Max>**

1,352.70 N at 73.45 ms

**<Min>**

-29.52 N at 32.75 ms

CFC\_600



**<Max>**

1,272.00 N at 73.95 ms

**<Min>**

-37.38 N at 32.45 ms

CFC\_600



**APPENDIX C**  
**DUMMY PERFORMANCE CALIBRATION TEST DATA**

## TABLE OF CALIBRATION MEASUREMENTS AND PLOTS

### ES-2re (Driver) Dummy

#### Description

**Table 1.** External Measurements

**Table 2.** Head Drop Test

Head (X) Acceleration (G's) vs. Time (ms)

Head (Y) Acceleration (G's) vs. Time (ms)

Head (Z) Acceleration (G's) vs. Time (ms)

Resultant Head Acceleration (G's) vs. Time (ms)

**Table 3** Neck Pendulum Test

Pendulum Velocity (m/s) vs. Time (ms)

Flexion Angle (°) vs. Time (ms)

Potentiometer A (°) vs. Time (ms)

Potentiometer B (°) vs. Time (ms)

Potentiometer C (°) vs. Time (ms)

**Table 4.** Shoulder Impact Test

Impactor Acceleration (G's) vs. Time (ms)

**Table 5.** Thorax – Upper Rib Drop Test

Upper Rib Displacement @ 459 mm Drop Height (mm) vs. Time (ms)

Upper Rib Displacement @ 815 mm Drop Height (mm) vs. Time (ms)

**Table 6.** Thorax – Middle Rib Drop Test

Middle Rib Displacement @ 459 mm Drop Height (mm) vs. Time (ms)

Middle Rib Displacement @ 815 mm Drop Height (mm) vs. Time (ms)

**Table 7.** Thorax – Lower Rib Drop Test

Lower Rib Displacement @ 459 mm Drop Height (mm) vs. Time (ms)

Lower Rib Displacement @ 815 mm Drop Height (mm) vs. Time (ms)

**Table 8.** Thorax – Full Body Impact Test

Pendulum Acceleration (G's) vs. Time (ms)

Impactor Force (kN) vs. Time (ms)

Upper Rib Displacement (mm) vs. Time (ms)

Middle Rib Displacement (mm) vs. Time (ms)

Lower Rib Displacement (mm) vs. Time (ms)

**Table 9.** Abdomen Impact Test

Impactor Force (kN) vs. Time (ms)

Front Abdomen Force (kN) vs. Time (ms)

Middle Abdomen Force (kN) vs. Time (ms)

Rear Abdomen Force (kN) vs. Time (ms)

Total Abdomen Force (kN) vs. Time (ms)

**Table 10.** Lumbar Spine Flexion Test

Pendulum Velocity (m/s) vs. Time (ms)

Spine Flexion Angle (°) vs. Time (ms)

Potentiometer A (°) vs. Time (ms)

Potentiometer B (°) vs. Time (ms)

Potentiometer C (°) vs. Time (ms)

**Table 11.** Pelvis Impact Test

Pendulum Acceleration (G's) vs. Time (ms)

Impactor Force (kN) vs. Time (ms)

Pubic Symphysis (Y) Force (kN) vs. Time (ms)

## TABLE OF CALIBRATION MEASUREMENTS AND PLOTS

### SID-IIs (Rear Passenger) Dummy

#### Description

**Table 1.** External Measurements

**Table 2.** Head Drop Test

- Head (X) Acceleration (G's) vs. Time (ms)
- Head (Y) Acceleration (G's) vs. Time (ms)
- Head (Z) Acceleration (G's) vs. Time (ms)
- Resultant Head Acceleration (G's) vs. Time (ms)

**Table 3.** Lateral Neck Pendulum Test

- Pendulum Velocity (m/s) vs. Time (ms)
- Flexion Angle (°) vs. Time (ms)
- Moment About Occipital Condyle (Nm) vs. Time (ms)

**Table 4.** Shoulder Impact Test

- Impactor Acceleration (G's) vs. Time (ms)
- Shoulder Displacement (mm) vs. Time (ms)
- Upper Spine Acceleration (G's) vs. Time (ms)

**Table 5.** Thorax (With Arm) Impact Test

- Impactor Acceleration (G's) vs. Time (ms)
- Shoulder Displacement (mm) vs. Time (ms)
- Upper Rib Displacement (mm) vs. Time (ms)
- Middle Rib Displacement (mm) vs. Time (ms)
- Lower Rib Displacement (mm) vs. Time (ms)
- Upper Spine Acceleration (G's) vs. Time (ms)
- Lower Spine Acceleration (G's) vs. Time (ms)

**Table 6.** Thorax (Without Arm) Impact Test

- Impactor Acceleration (G's) vs. Time (ms)
- Upper Rib Displacement (mm) vs. Time (ms)
- Middle Rib Displacement (mm) vs. Time (ms)
- Lower Rib Displacement (mm) vs. Time (ms)
- Upper Spine Acceleration (G's) vs. Time (ms)
- Lower Spine Acceleration (G's) vs. Time (ms)

**Table 7.** Abdomen Impact Test

- Impactor Acceleration (G's) vs. Time (ms)
- Upper Abdominal Rib Displacement (mm) vs. Time (ms)
- Lower Abdominal Rib Displacement (mm) vs. Time (ms)
- Lower Spine Acceleration (G's) vs. Time (ms)

**Table 8.** Pelvis Plug Quasi-Static Test (Optional\*)

**Table 9.** Pelvis Acetabulum Impact Test

- Impactor Acceleration (G's) vs. Time (ms)
- Pelvis (Y) Acceleration (G's) vs. Time (ms)
- Acetabulum Force (N) vs. Time (ms)

**Table 10.** Pelvis Iliac Impact Test

- Impactor Acceleration (G's) vs. Time (ms)
- Pelvis (Y) Acceleration (G's) vs. Time (ms)
- Iliac Force (N) vs. Time (ms)

**Pre-Test Calibration Sheets**  
**Driver S/N F030**

**Transportation Research Center Inc.**  
**572U ES-2re Dummy**  
**External Dimensions**  
**Serial No. F030 Calibration No. 103**

Symbol	Description	Specification	Results	Pass
		mm	mm	
1	Sitting Height	900.0 - 918.0	909	Yes
2	Seat to Shoulder Joint	558.0 - 572.0	560	Yes
3	Seat to Lower Face of Thoracic Spine Box	346.0 - 356.0	347	Yes
4	Seat to Hip Joint (center of bolt)	97.0 - 103.0	98	Yes
5	Sole to Seat, Sitting	433.0 - 451.0	443	Yes
6	Head Width	152.0 - 158.0	154	Yes
7	Shoulder/Arm Width	461.0 - 479.0	475	Yes
8	Thorax Width	322.0 - 332.0	328	Yes
9	Abdomen Width	273.0 - 287.0	279	Yes
10	Pelvis Lap Width	359.0 - 373.0	366	Yes
11	Head Depth	196.0 - 206.0	201	Yes
12	Thorax Depth	262.0 - 272.0	262	Yes
13	Abdomen Depth	194.0 - 204.0	199	Yes
14	Pelvis Depth	235.0 - 245.0	242	Yes
15	Back of Buttocks to Hip Joint (center of bolt)	150.0 - 160.0	156	Yes
16	Back of Buttocks to Front of Knee	597.0 - 615.0	605	Yes



Baseline 10/07/05

## Transportation Research Center Inc.

Left Lateral Head Drop

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Peak Resultant Acceleration	125 - 155 g	128.7 g	Yes
Peak Longitudinal Acceleration	(-15) - 15 g	8.0 g	Yes
Is Resultant Acceleration Curve Unimodal within 15% of Main Pulse?	< 15 %	4.26 %	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Head Skin S/N: DP6812**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 09:21:54 362

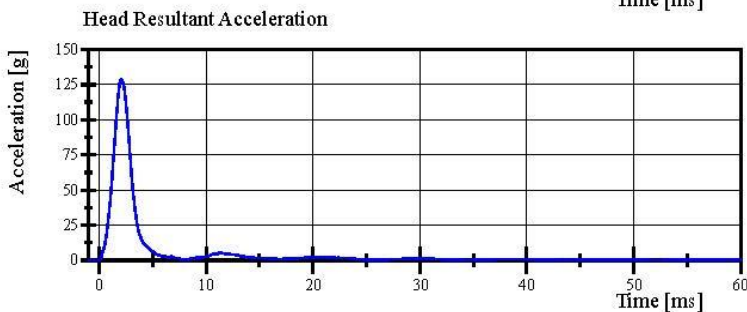
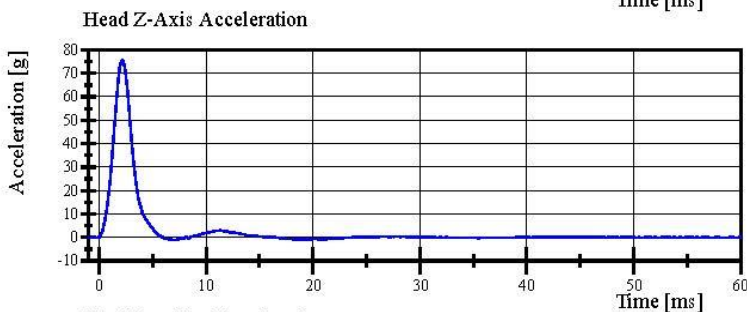
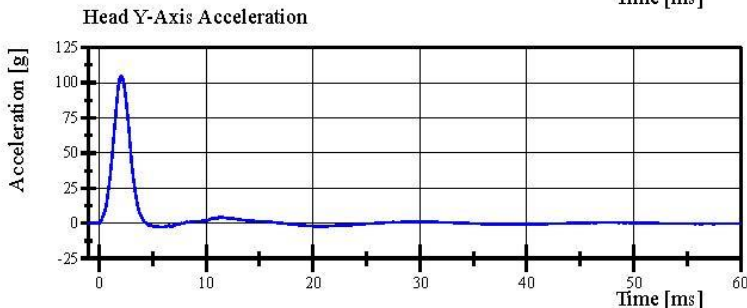
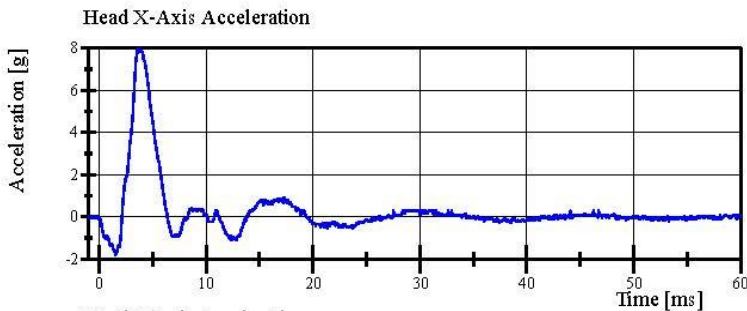


# Transportation Research Center Inc.

Left Lateral Head Drop

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025



Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 09:22:25 362



# Transportation Research Center Inc.

Left Lateral Neck

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	39 %	Yes
Pendulum Integrated Velocity Change within Corridor	Yes	Yes	Yes
Pendulum Velocity	(-3.3) - (-3.5) m/s	-3.37 m/s	Yes
Maximum Headform Flexion			
Peak	(-49) - (-59) deg	-53.1 deg	Yes
Time of Peak	54 - 66 ms	56.6 ms	Yes
Headform Flexion Decay			
- Peak to Zero	53 - 88 ms	54.6 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Neck S/N: 05053**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 09:46:59 1496

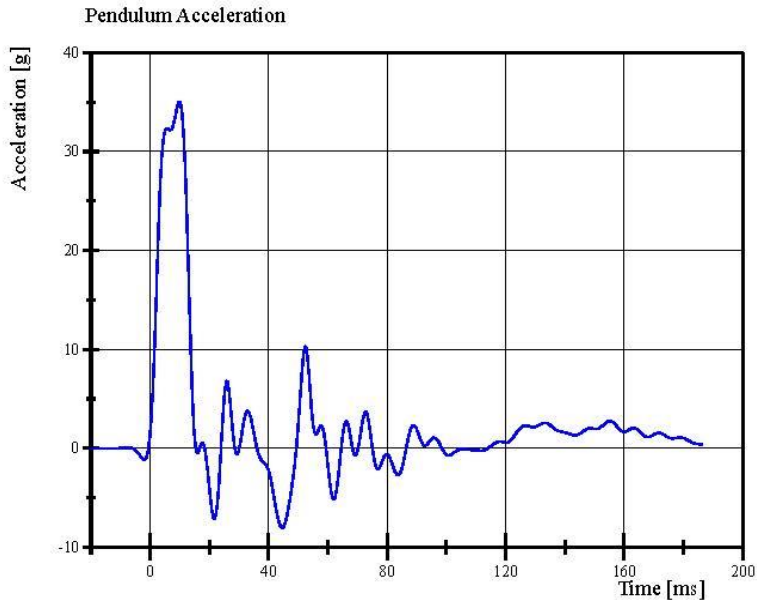


# Transportation Research Center Inc.

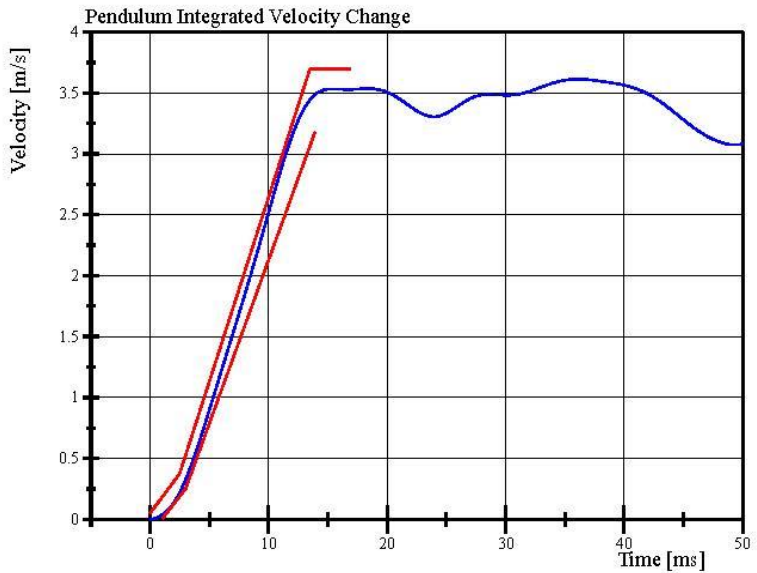
Left Lateral Neck

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025



Filter Class: CFC\_60  
Max: 35.1 g at 9.9 ms  
Min: -8.0 g at 44.6 ms



Filter Class: CFC\_60  
Max: 3.6 m/s at 36.1 ms  
Min: 0.0 m/s at 0.0 ms

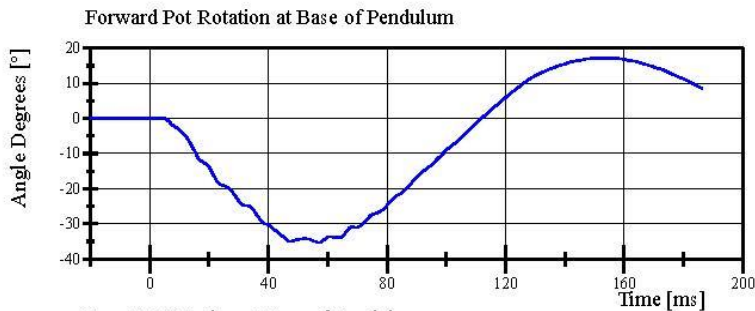
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 09:47:53 1496

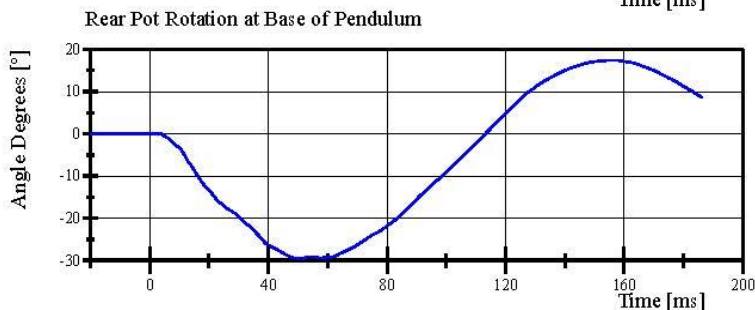


# Transportation Research Center Inc.

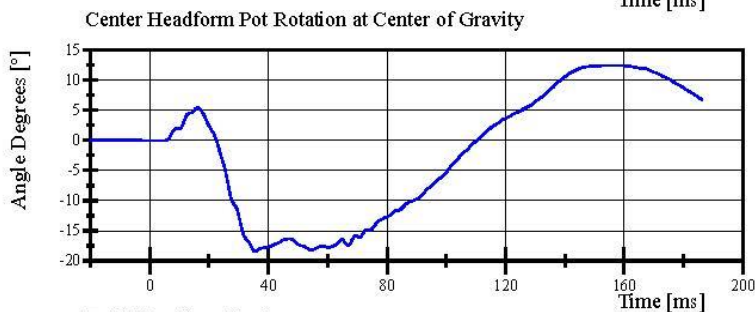
Left Lateral Neck  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025



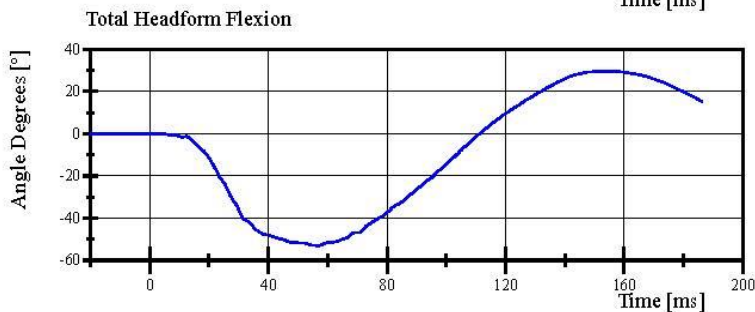
Filter Class: CFC\_180  
Max: 17.1 ° at 155.9 ms  
Min: -35.3 ° at 57.0 ms



Filter Class: CFC\_180  
Max: 17.4 ° at 157.0 ms  
Min: -29.6 ° at 50.6 ms



Filter Class: CFC\_180  
Max: 12.4 ° at 155.5 ms  
Min: -18.4 ° at 35.5 ms



Filter Class: CFC\_180  
Max: 29.5 ° at 155.9 ms  
Min: -53.1 ° at 56.6 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 09:47:53 1496



# Transportation Research Center Inc.

Left Lateral Shoulder

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/14/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	40 %	Yes
Test Probe Velocity	4.2 - 4.4 m/s	4.23 m/s	Yes
Test Probe Acceleration	(-7.5) - (-10.5) g	-8.79 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Arm S/N: 175-3501-07014**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 08:57:07 559

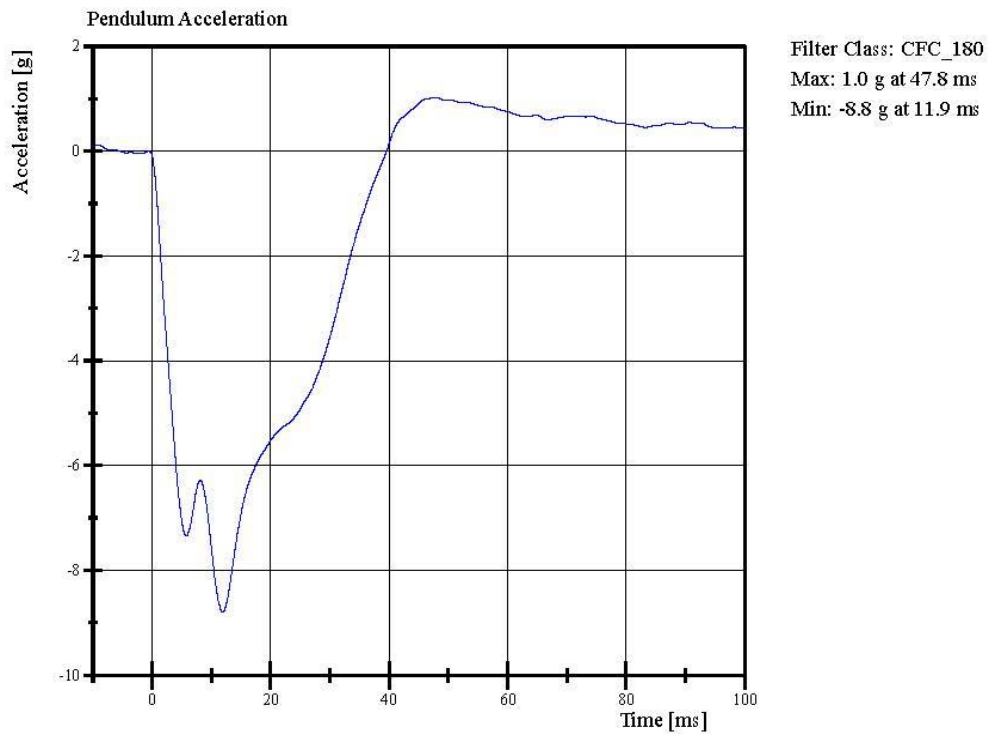


# Transportation Research Center Inc.

Left Lateral Shoulder

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/14/2025



Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 08:57:50 559



## Transportation Research Center Inc.

3.0 m/s Upper Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
3.0 m/s Test Rib Displacement (454 mm to 464 mm)	36 - 40 mm	40.0 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 462 mm**

**Rib Foam S/N: EK6973**

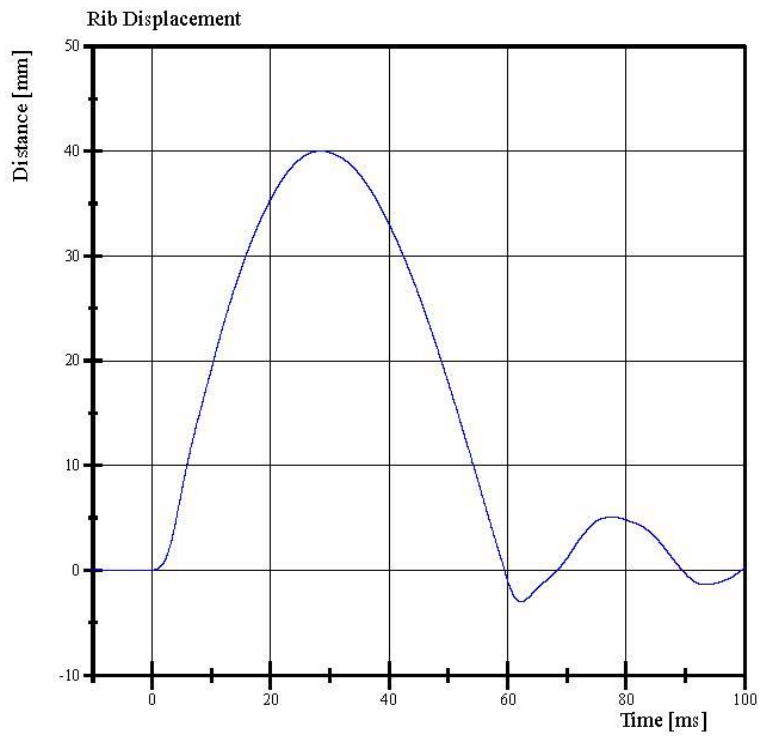
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:38:26 637



# Transportation Research Center Inc.

3.0 m/s Upper Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 40.0 mm at 28.5 ms  
Min: -3.0 mm at 62.2 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:39:00 637



## Transportation Research Center Inc.

4.0 m/s Upper Full Rib Module

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	37 %	Yes
4.0 m/s Test Rib Displacement (807 mm to 823 mm)	46 - 51 mm	48.6 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 816 mm**

**Rib Foam S/N: EK6973**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:33:18 509

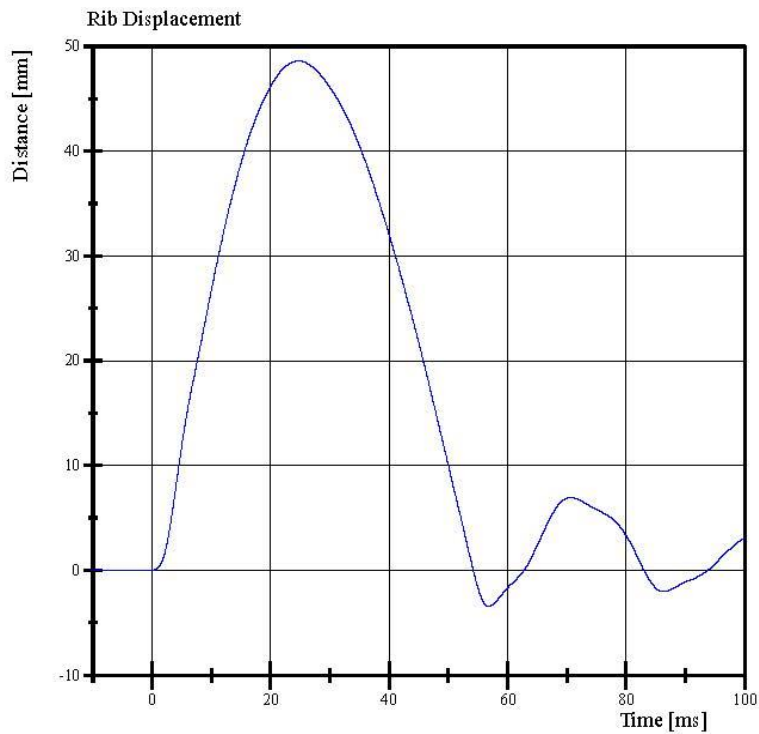


# Transportation Research Center Inc.

4.0 m/s Upper Full Rib Module

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 48.6 mm at 24.7 ms  
Min: -3.4 mm at 56.8 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:33:48 509



## Transportation Research Center Inc.

3.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
3.0 m/s Test Rib Displacement (454 mm to 464 mm)	36 - 40 mm	38.3 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 462 mm**

**Rib Foam S/N: EK6970**

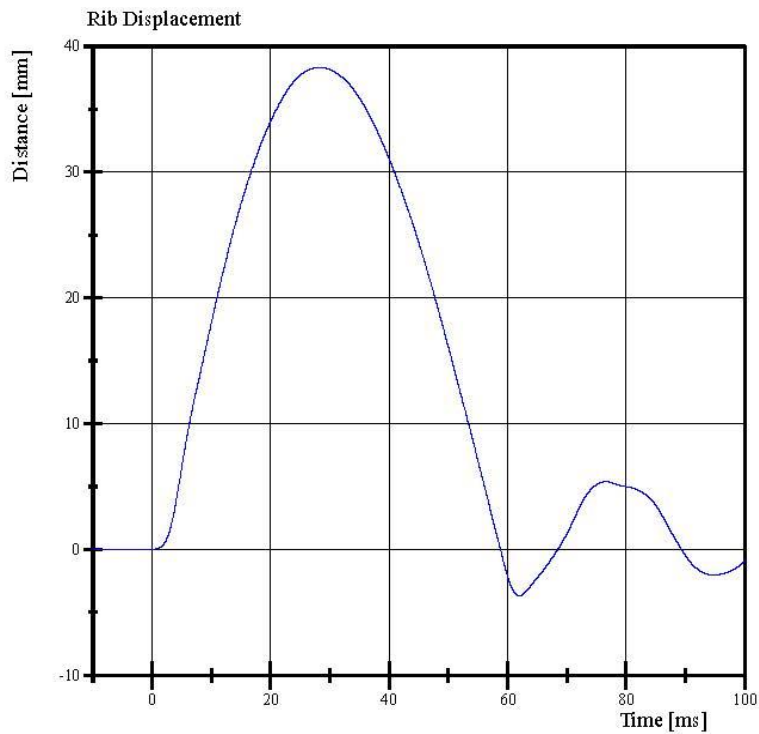
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:47:32 618



# Transportation Research Center Inc.

3.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 38.3 mm at 28.2 ms  
Min: -3.7 mm at 62.0 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:48:11 618



## Transportation Research Center Inc.

4.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
4.0 m/s Test Rib Displacement (807 mm to 823 mm)	46 - 51 mm	49.4 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 816 mm**

**Rib Foam S/N: EK6970**

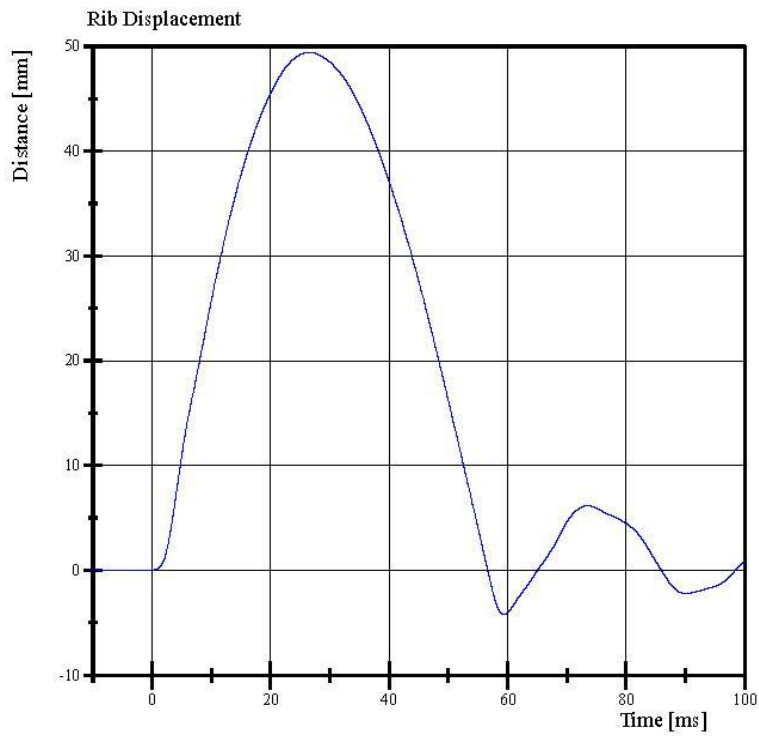
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:41:06 509



# Transportation Research Center Inc.

4.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 49.4 mm at 26.6 ms  
Min: -4.2 mm at 59.3 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:41:37 509



## Transportation Research Center Inc.

3.0 m/s Lower Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
3.0 m/s Test Rib Displacement (454 mm to 464 mm)	36 - 40 mm	37.8 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 462 mm**

**Rib Foam S/N: EK6971**

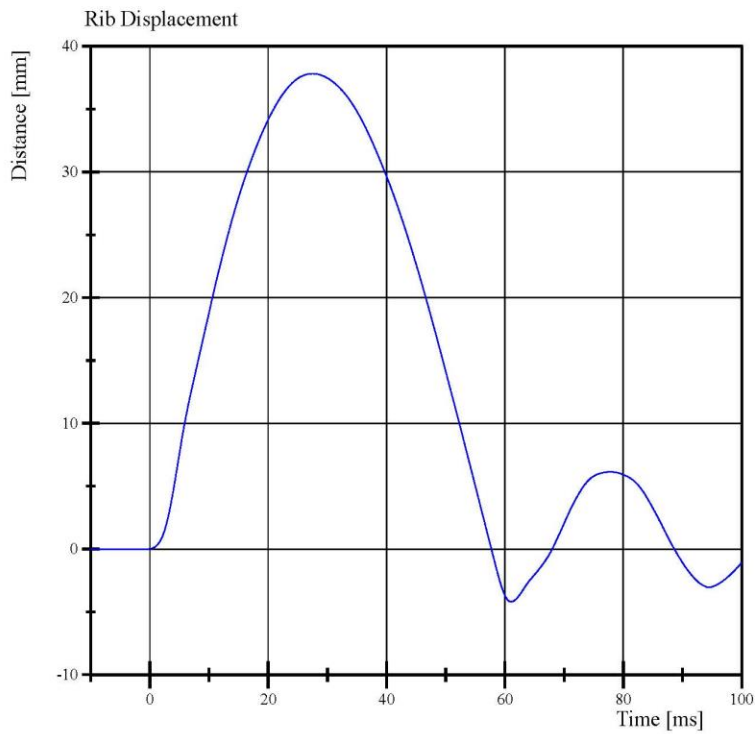
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:55:50 632



# Transportation Research Center Inc.

3.0 m/s Lower Full Rib Module  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 37.8 mm at 27.5 ms  
Min: -4.2 mm at 61.0 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:56:35 632



# Transportation Research Center Inc.

4.0 m/s Lower Full Rib Module

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
4.0 m/s Test Rib Displacement (807 mm to 823 mm)	46 - 51 mm	46.5 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 816 mm**

**Rib Foam S/N: EK6971**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:50:20 538

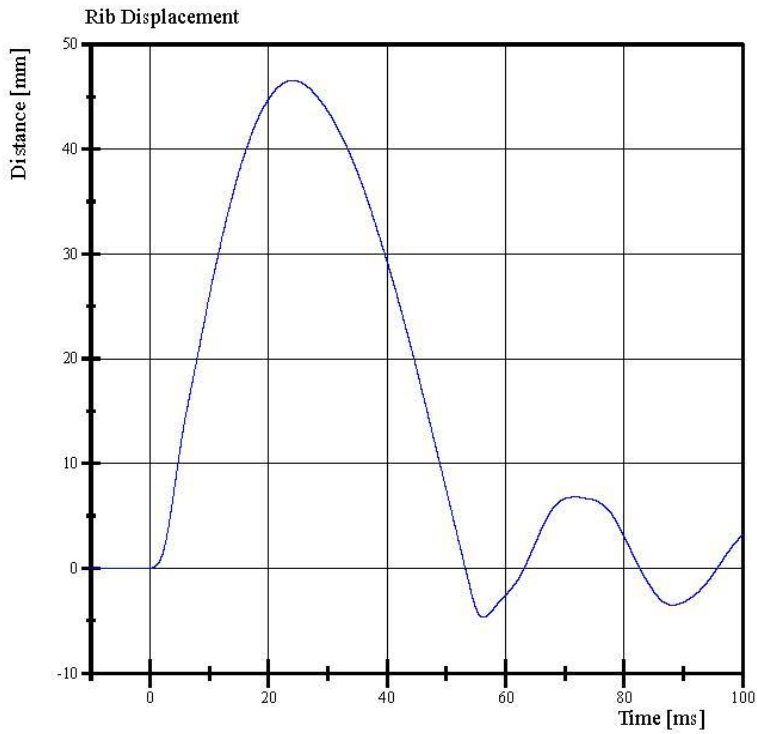


# Transportation Research Center Inc.

4.0 m/s Lower Full Rib Module

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 46.5 mm at 24.1 ms  
Min: -4.7 mm at 56.2 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:50:50 538



## Transportation Research Center Inc.

Left Lateral Thorax  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/14/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.6 °C	Yes
Relative Humidity	10 - 70 %	42 %	Yes
Impactor Velocity	5.4 - 5.60 m/s	5.431 m/s	Yes
Peak Impactor Force after 6 ms	(-5,100) - (-6,200) N	-5,878.3 N	Yes
Upper Rib Displacement	34 - 41 mm	39.0 mm	Yes
Center Rib Displacement	37 - 45 mm	40.4 mm	Yes
Lower Rib Displacement	37 - 44 mm	40.2 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Upper Rib Module S/N: 175-4008-A**

**Upper Rib Foam S/N: 175-4003-EK6973**

**Middle Rib Module S/N: 175-4008-A**

**Middle Rib Foam S/N: 175-4003-EK6970**

**Lower Rib Module S/N: 175-4008-A-06-017**

**Lower Rib Foam S/N: 175-4008-EK6971**

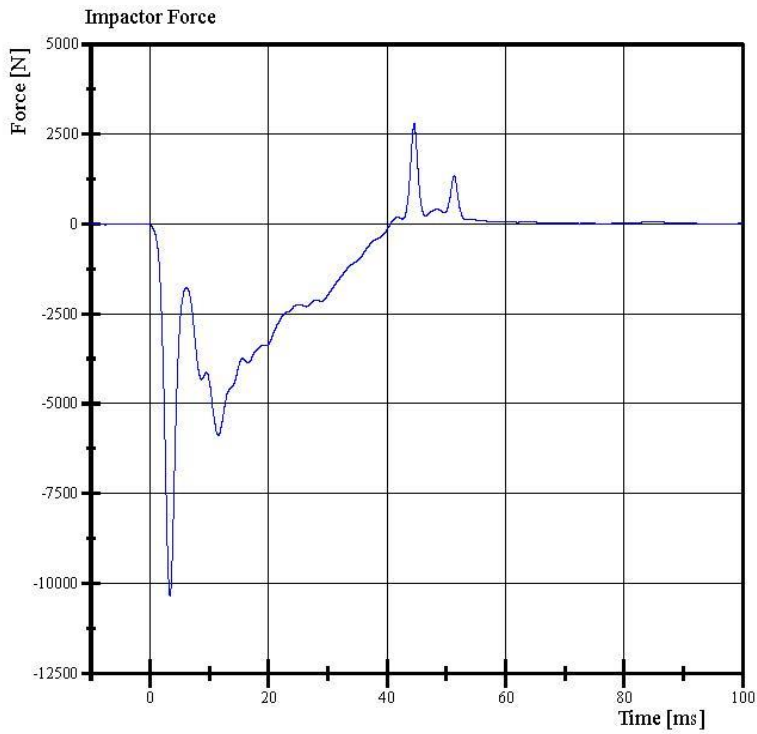
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 09:13:36 450



# Transportation Research Center Inc.

Left Lateral Thorax  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/14/2025



Filter Class: CFC\_180  
Max: 2,793.8 N at 44.6 ms  
Min: -10,353.2 N at 3.4 ms

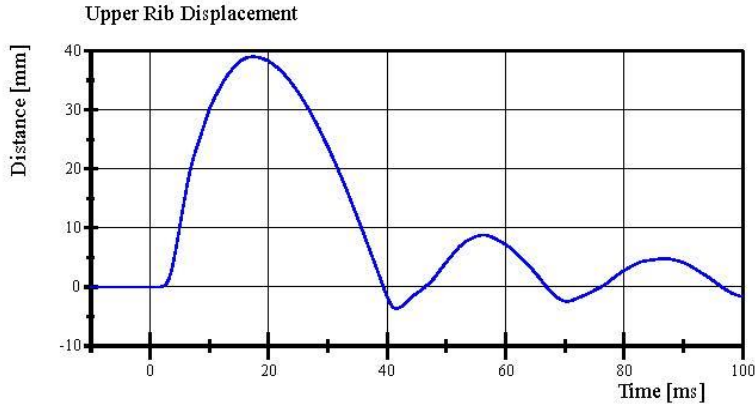
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 09:14:58 450

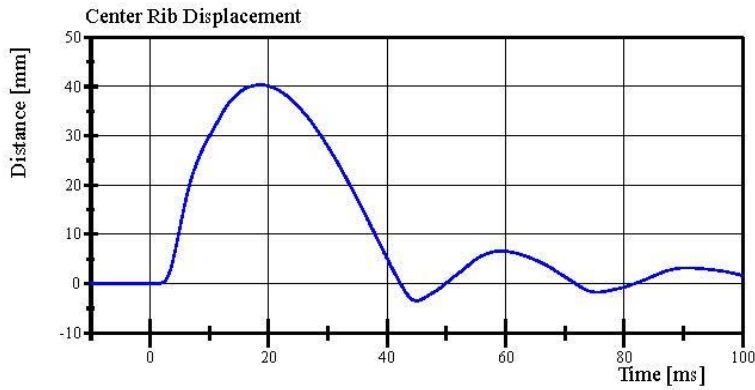


# Transportation Research Center Inc.

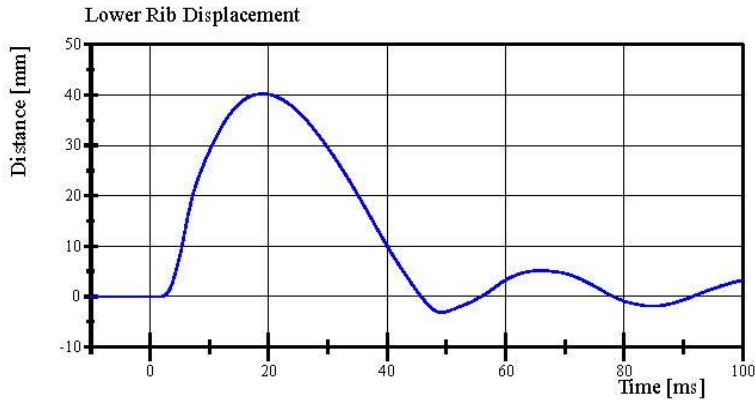
Left Lateral Thorax  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/14/2025



Filter Class: CFC\_180  
Max: 39.0 mm at 17.4 ms  
Min: -3.6 mm at 41.6 ms



Filter Class: CFC\_180  
Max: 40.4 mm at 18.6 ms  
Min: -3.5 mm at 45.0 ms



Filter Class: CFC\_180  
Max: 40.2 mm at 19.0 ms  
Min: -3.2 mm at 49.2 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 09:14:58 450



## Transportation Research Center Inc.

Left Lateral Lumbar  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Pendulum Integrated Velocity Change within Corridor	Yes	Yes	Yes
Pendulum Velocity	(-5.95) - (-6.15) m/s	-6.133 m/s	Yes
Maximum Headform Flexion			
Peak	(-45) - (-55) deg	-50.9 deg	Yes
Time of Peak	39 - 53 ms	45.6 ms	Yes
Headform Flexion Decay			
- Peak to Zero	37 - 57 ms	38.6 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Lumbar S/N: FB7553**

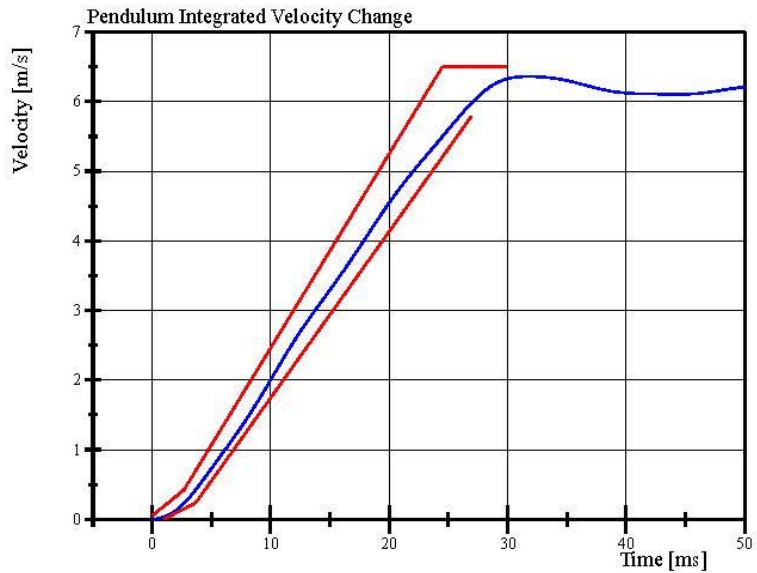
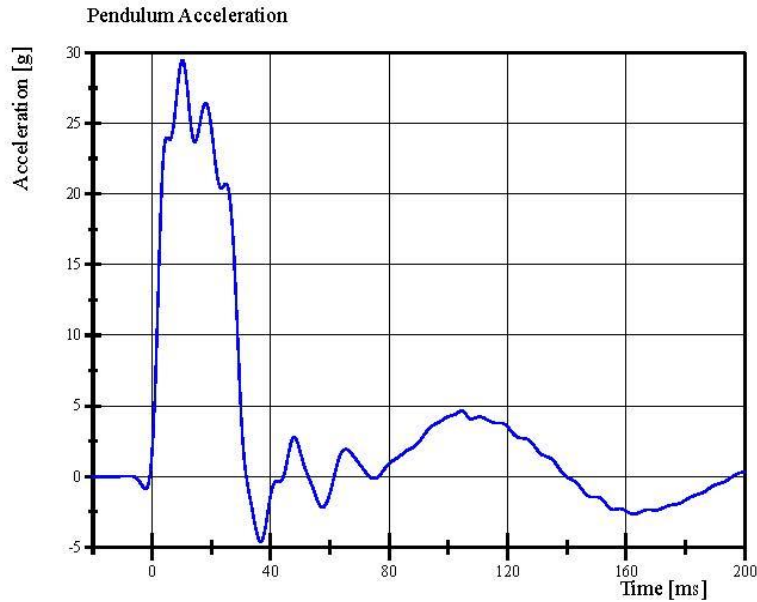
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:09:25 671



# Transportation Research Center Inc.

Left Lateral Lumbar  
ES-2re Serial No. F030 Certification No. 103-1  
Test Date: 4/11/2025



Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:09:57 671

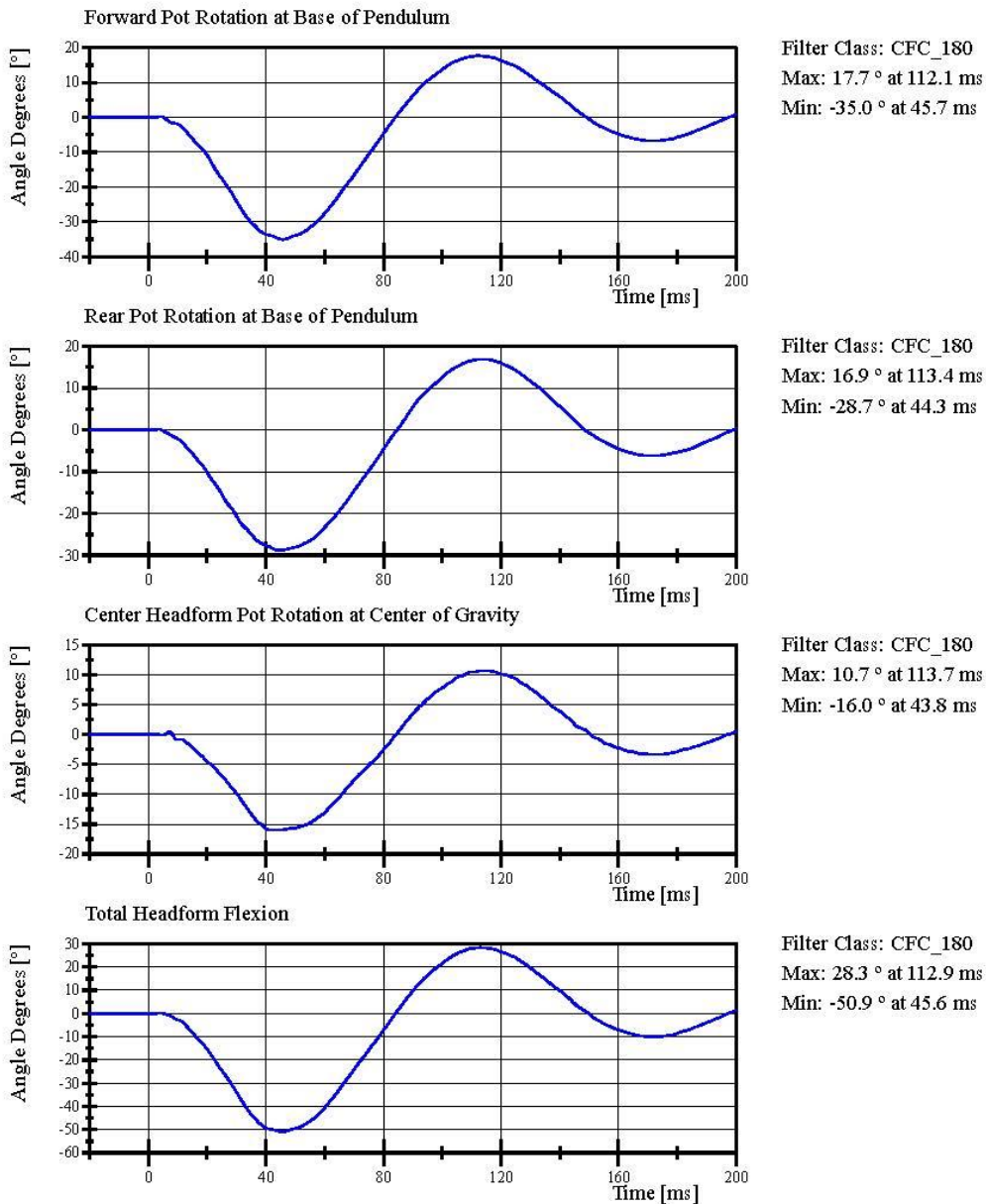


# Transportation Research Center Inc.

Left Lateral Lumbar

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/11/2025



Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.11.2025 10:09:58 671



## Transportation Research Center Inc.

Left Lateral Abdomen

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/14/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.6 °C	Yes
Relative Humidity	10 - 70 %	43 %	Yes
Test Probe Velocity	3.9 - 4.1 m/s	4.07 m/s	Yes
Test Probe Force			
Peak	4,000 - 4,800 N	4,421.6 N	Yes
Time of Peak	10.6 - 13.0 ms	10.88 ms	Yes
Total Abdominal Force			
Peak	2,200 - 2,700 N	2,444.2 N	Yes
Time of Peak	10.0 - 12.3 ms	10.96 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Abdomen S/N: 1066**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 09:36:04 576

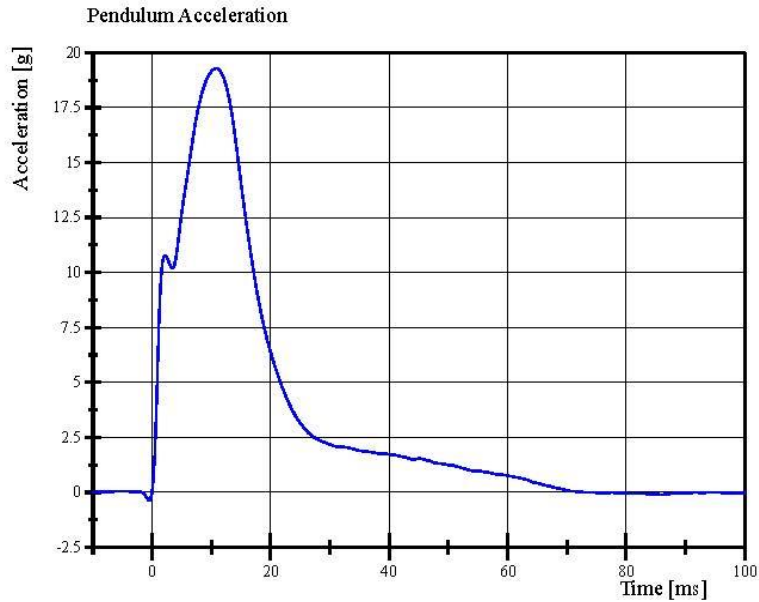


# Transportation Research Center Inc.

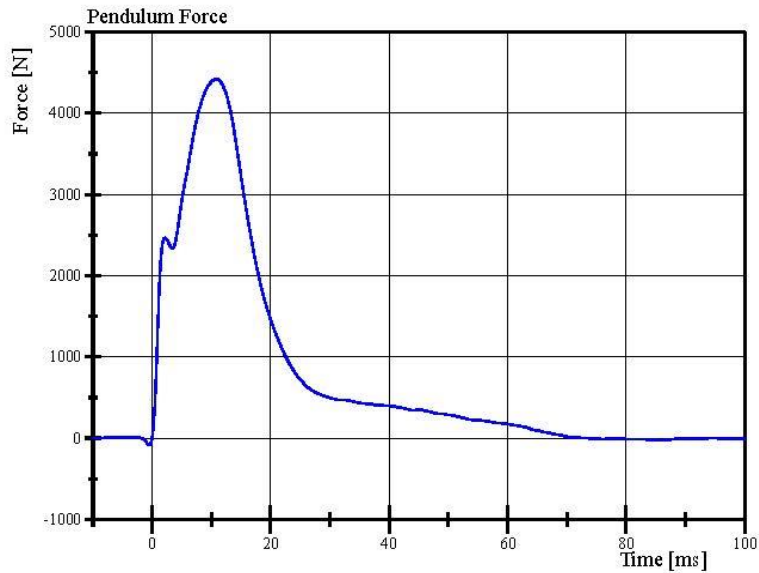
Left Lateral Abdomen

ES-2re Serial No. F030 Certification No. 103-1

Test Date: 4/14/2025



Filter Class: CFC\_180  
Max: 19.3 g at 10.9 ms  
Min: -0.4 g at -0.5 ms



Filter Class: CFC\_180  
Max: 4,421.6 N at 10.9 ms  
Min: -85.2 N at -0.5 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 09:36:40 576

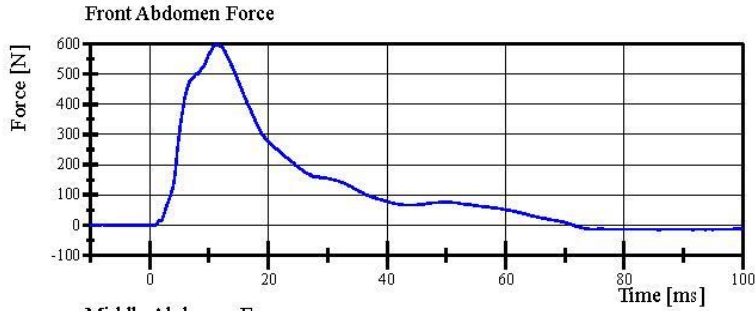


# Transportation Research Center Inc.

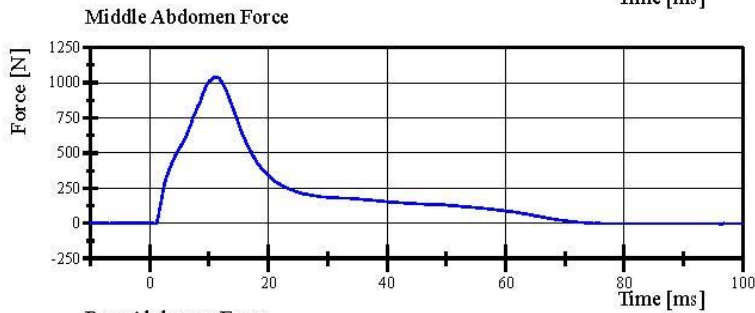
Left Lateral Abdomen

ES-2re Serial No. F030 Certification No. 103-1

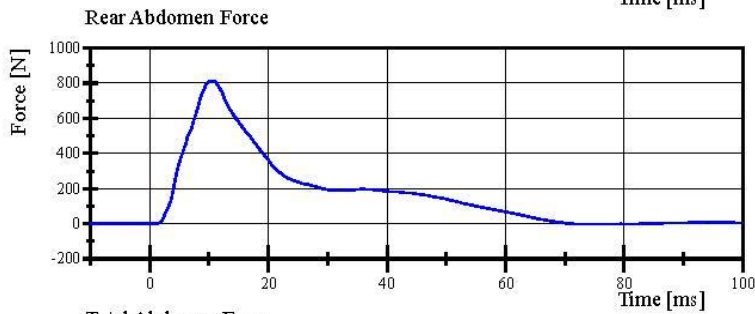
Test Date: 4/14/2025



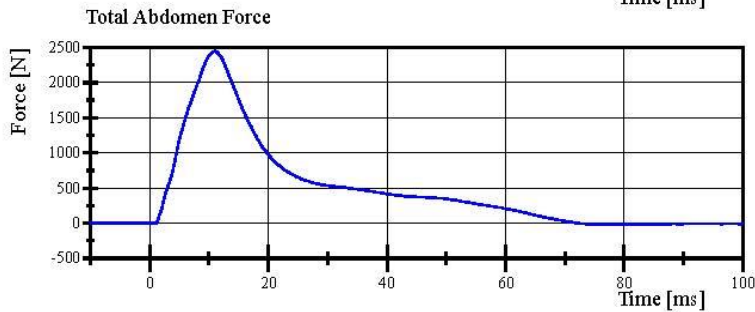
Filter Class: CFC\_600  
Max: 598.5 N at 11.2 ms  
Min: -15.6 N at 85.9 ms



Filter Class: CFC\_600  
Max: 1,039.5 N at 11.1 ms  
Min: -5.6 N at 96.4 ms



Filter Class: CFC\_600  
Max: 812.6 N at 10.7 ms  
Min: -3.4 N at 76.3 ms



Filter Class: CFC\_600  
Max: 2,444.2 N at 11.0 ms  
Min: -18.6 N at 78.1 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 09:36:41 576



# Transportation Research Center Inc.

Left Lateral Pelvis

ES-2re Serial No. F030 Certification No. 103-2

Test Date: 4/14/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.8 °C	Yes
Relative Humidity	10 - 70 %	42 %	Yes
Test Probe Velocity	4.2 - 4.4 m/s	4.35 m/s	Yes
Test Probe Force			
Peak	4,700 - 5,400 N	5,197.0 N	Yes
Time of Peak	11.8 - 16.1 ms	13.04 ms	Yes
Pubic Symphysis Force			
Peak	(-1,230) - (-1,590) N	-1,338.3 N	Yes
Time of Peak	12.2 - 17.0 ms	13.36 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Pelvis S/N: NA**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 10:45:34 555

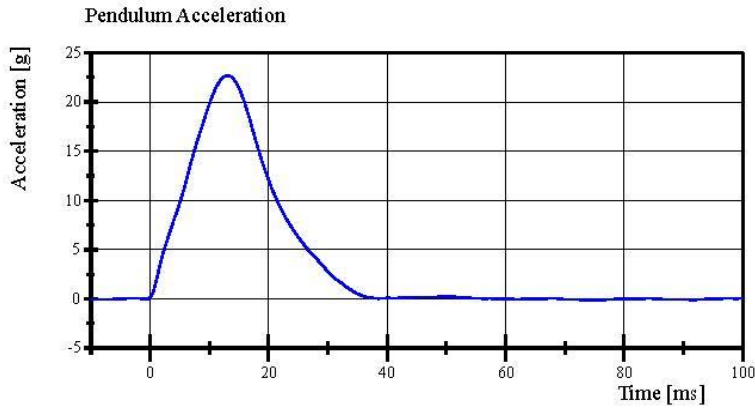


# Transportation Research Center Inc.

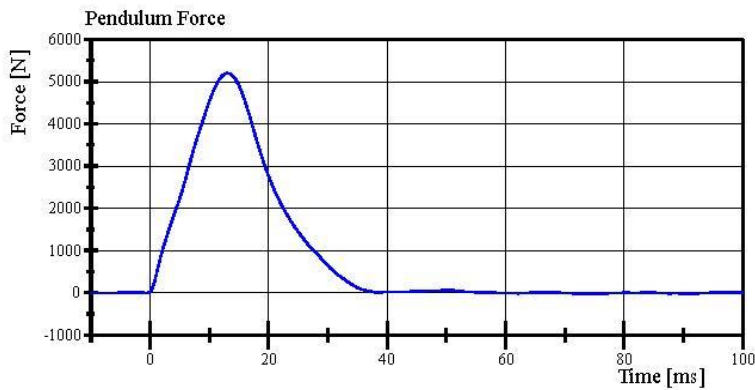
Left Lateral Pelvis

ES-2re Serial No. F030 Certification No. 103-2

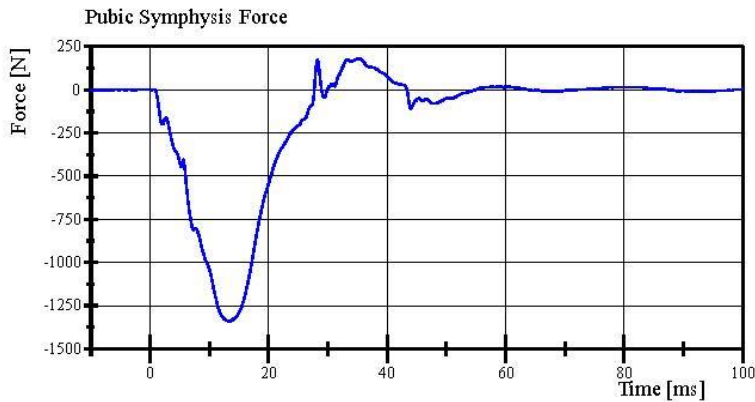
Test Date: 4/14/2025



Filter Class: CFC\_180  
Max: 22.7 g at 13.0 ms  
Min: -0.1 g at 73.2 ms



Filter Class: CFC\_180  
Max: 5,197.0 N at 13.0 ms  
Min: -21.3 N at 73.2 ms



Filter Class: CFC\_600  
Max: 179.2 N at 35.3 ms  
Min: -1,338.3 N at 13.4 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

04.14.2025 10:46:13 555



**Post-Test Calibration Sheets  
Driver S/N F030**

**Transportation Research Center Inc.**  
**572U ES-2re Dummy**  
**External Dimensions**  
**Serial No. F030 Calibration No. 104**

Symbol	Description	Specification	Results	Pass
		mm	mm	
1	Sitting Height	900.0 - 918.0	909	Yes
2	Seat to Shoulder Joint	558.0 - 572.0	560	Yes
3	Seat to Lower Face of Thoracic Spine Box	346.0 - 356.0	347	Yes
4	Seat to Hip Joint (center of bolt)	97.0 - 103.0	98	Yes
5	Sole to Seat, Sitting	433.0 - 451.0	443	Yes
6	Head Width	152.0 - 158.0	154	Yes
7	Shoulder/Arm Width	461.0 - 479.0	475	Yes
8	Thorax Width	322.0 - 332.0	328	Yes
9	Abdomen Width	273.0 - 287.0	279	Yes
10	Pelvis Lap Width	359.0 - 373.0	366	Yes
11	Head Depth	196.0 - 206.0	201	Yes
12	Thorax Depth	262.0 - 272.0	262	Yes
13	Abdomen Depth	194.0 - 204.0	199	Yes
14	Pelvis Depth	235.0 - 245.0	242	Yes
15	Back of Buttocks to Hip Joint (center of bolt)	150.0 - 160.0	156	Yes
16	Back of Buttocks to Front of Knee	597.0 - 615.0	605	Yes

Baseline 10/07/05



Report Number: F030\_ERF104

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## Transportation Research Center Inc.

Left Lateral Head Drop

ES-2re Serial No. F030 Certification No. 104-1

Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Peak Resultant Acceleration	125 - 155 g	130.8 g	Yes
Peak Longitudinal Acceleration	(-15) - 15 g	9.1 g	Yes
Is Resultant Acceleration Curve Unimodal within 15% of Main Pulse?	< 15 %	4.27 %	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Head Skin S/N: DP6812**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 13:56:11 361



Report Number: F030\_ERF104

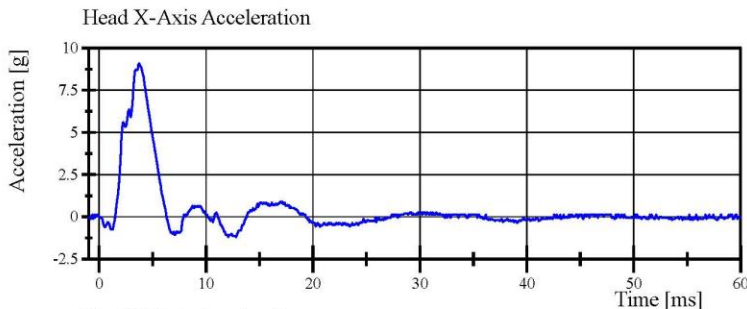
Page 10 of 41

# Transportation Research Center Inc.

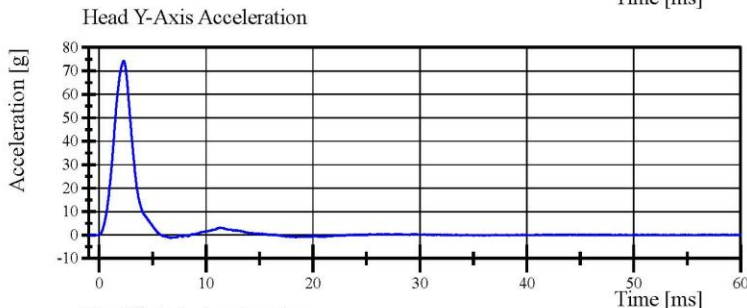
Left Lateral Head Drop

ES-2re Serial No. F030 Certification No. 104-1

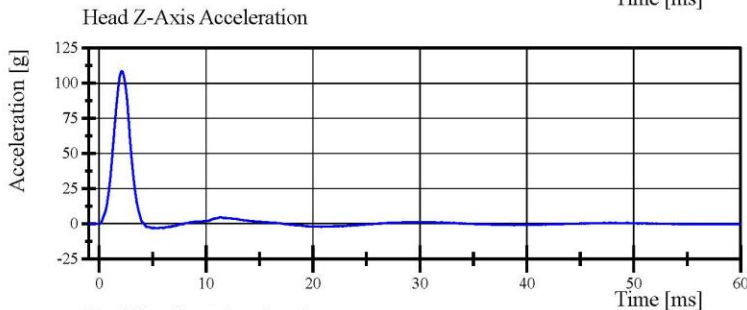
Test Date: 5/5/2025



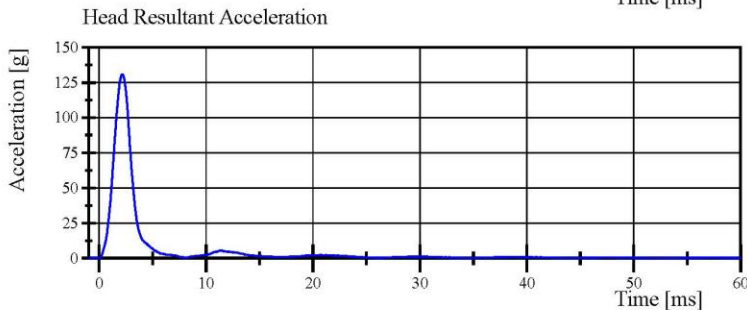
Filter Class: CFC\_1000  
Max: 9.1 g at 3.8 ms  
Min: -1.2 g at 12.1 ms



Filter Class: CFC\_1000  
Max: 74.2 g at 2.3 ms  
Min: -1.1 g at 6.6 ms



Filter Class: CFC\_1000  
Max: 108.4 g at 2.1 ms  
Min: -3.2 g at 5.0 ms



Filter Class: CFC\_1000  
Max: 130.8 g at 2.2 ms  
Min: 0.0 g at -1.0 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 13:56:47 361



## Transportation Research Center Inc.

Left Lateral Neck  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.6 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Pendulum Integrated Velocity Change within Corridor	Yes	Yes	Yes
Pendulum Velocity	(-3.3) - (-3.5) m/s	-3.37 m/s	Yes
Maximum Headform Flexion			
Peak	(-49) - (-59) deg	-53.5 deg	Yes
Time of Peak	54 - 66 ms	57.9 ms	Yes
Headform Flexion Decay			
- Peak to Zero	53 - 88 ms	54.1 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Neck S/N: 05053**

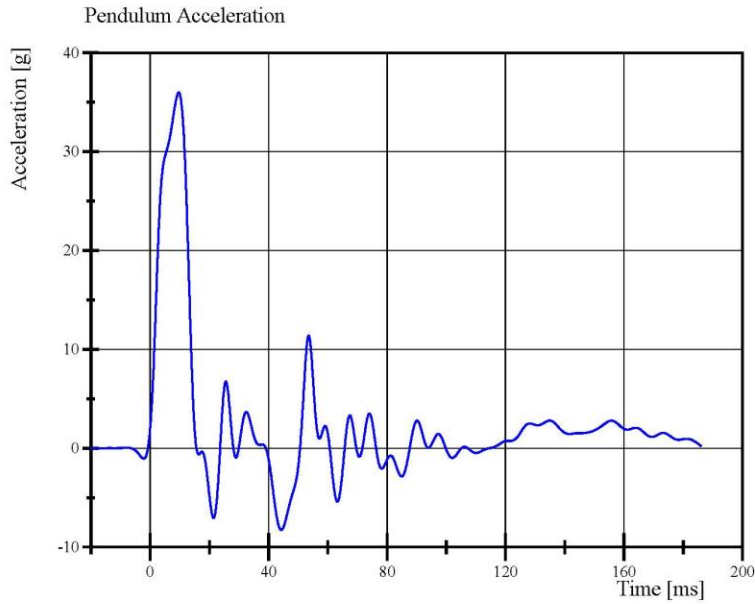
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 14:29:27 1499

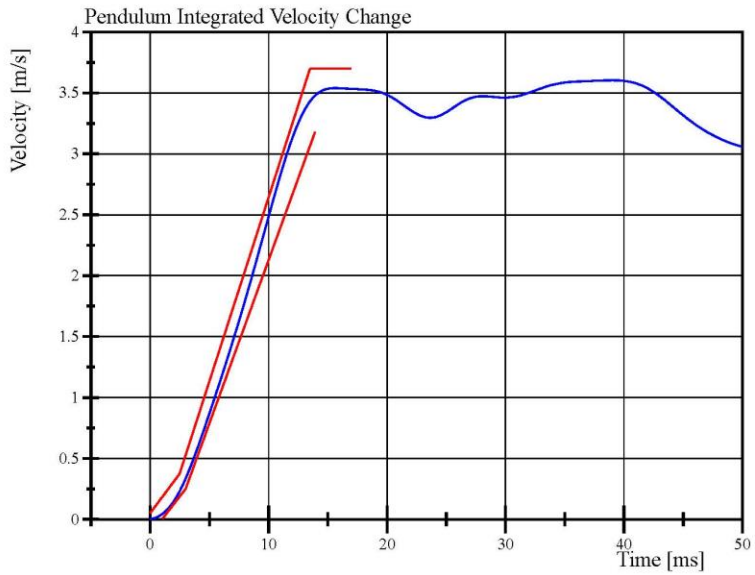


# Transportation Research Center Inc.

Left Lateral Neck  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/5/2025



Filter Class: CFC\_60  
Max: 36.0 g at 9.7 ms  
Min: -8.3 g at 44.2 ms



Filter Class: CFC\_60  
Max: 3.6 m/s at 39.0 ms  
Min: 0.0 m/s at 0.0 ms

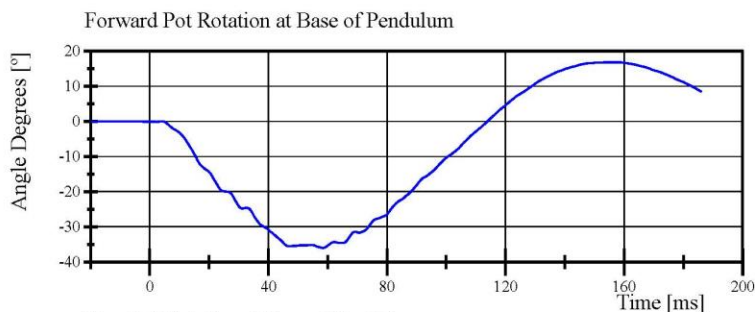
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 14:30:08 1499

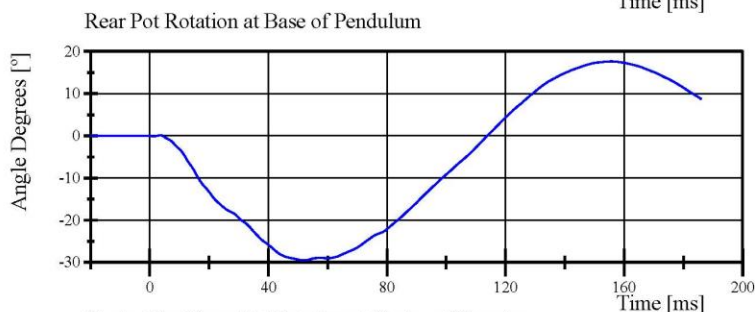


# Transportation Research Center Inc.

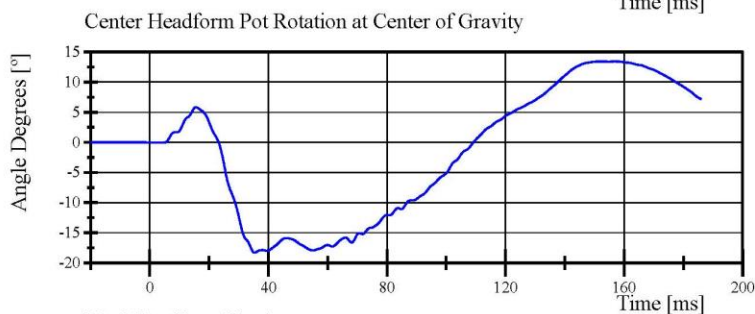
Left Lateral Neck  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/5/2025



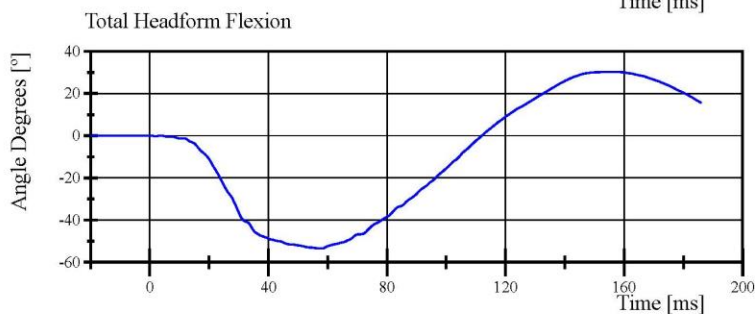
Filter Class: CFC\_180  
Max: 16.8 ° at 155.5 ms  
Min: -36.0 ° at 58.4 ms



Filter Class: CFC\_180  
Max: 17.6 ° at 155.7 ms  
Min: -29.5 ° at 52.3 ms



Filter Class: CFC\_180  
Max: 13.4 ° at 157.0 ms  
Min: -18.3 ° at 35.4 ms



Filter Class: CFC\_180  
Max: 30.2 ° at 156.9 ms  
Min: -53.5 ° at 57.9 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 14:30:09 1499



## Transportation Research Center Inc.

Left Lateral Shoulder

ES-2re Serial No. F030 Certification No. 104-1

Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	49 %	Yes
Test Probe Velocity	4.2 - 4.4 m/s	4.23 m/s	Yes
Test Probe Acceleration	(-7.5) - (-10.5) g	-8.37 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Arm S/N: 175-3501-07014**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:10:15 570



Report Number: F030\_ERF104

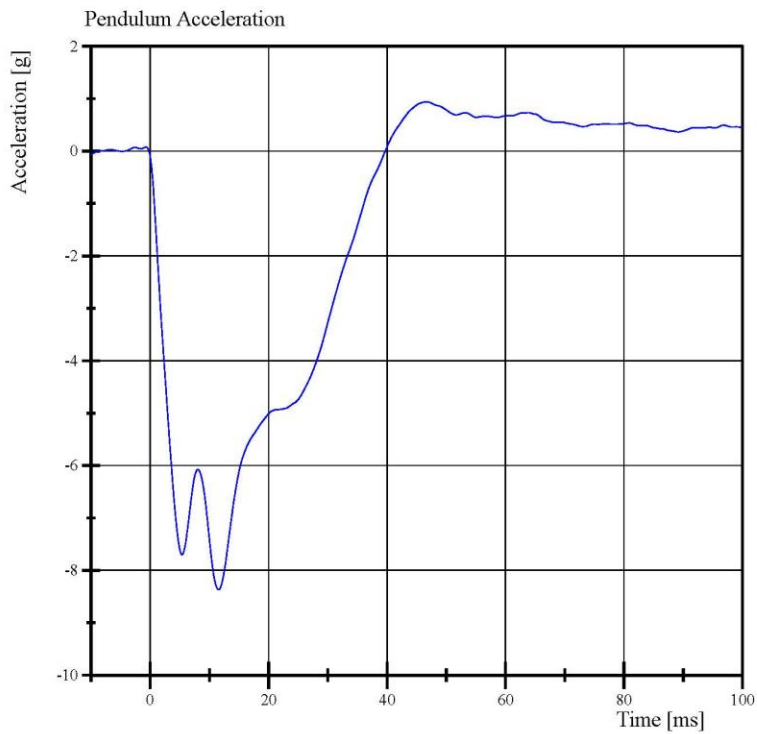
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# Transportation Research Center Inc.

Left Lateral Shoulder

ES-2re Serial No. F030 Certification No. 104-1

Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 0.9 g at 46.7 ms  
Min: -8.4 g at 11.5 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:10:54 570



## Transportation Research Center Inc.

3.0 m/s Upper Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-2  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	50 %	Yes
3.0 m/s Test Rib Displacement (454 mm to 464 mm)	36 - 40 mm	39.8 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 462 mm**

**Rib Foam S/N: EK6973**

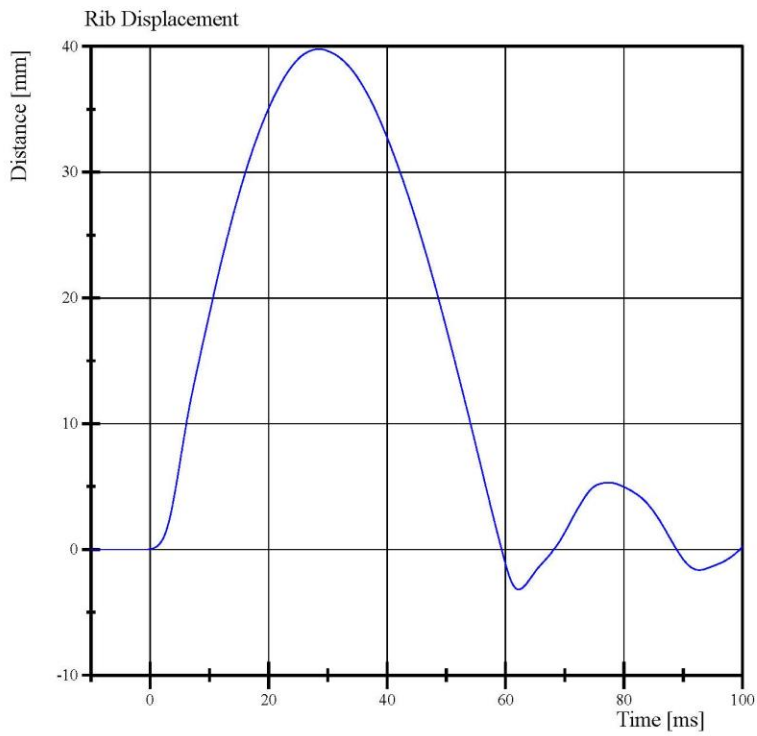
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:31:36 626



# Transportation Research Center Inc.

3.0 m/s Upper Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-2  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 39.8 mm at 28.5 ms  
Min: -3.2 mm at 62.2 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:32:23 626



## Transportation Research Center Inc.

4.0 m/s Upper Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	50 %	Yes
4.0 m/s Test Rib Displacement (807 mm to 823 mm)	46 - 51 mm	49.2 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 816 mm**

**Rib Foam S/N: EK6973**

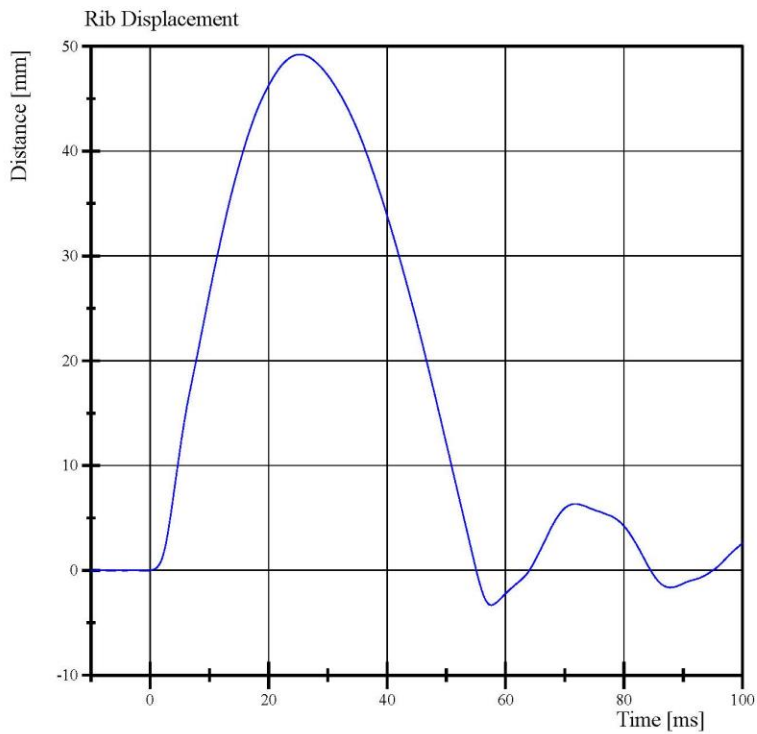
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 10:56:14 507



# Transportation Research Center Inc.

4.0 m/s Upper Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 49.2 mm at 25.3 ms  
Min: -3.3 mm at 57.6 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 10:56:47 507



## Transportation Research Center Inc.

3.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
3.0 m/s Test Rib Displacement (454 mm to 464 mm)	36 - 40 mm	38.4 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 462 mm**

**Rib Foam S/N: EK6970**

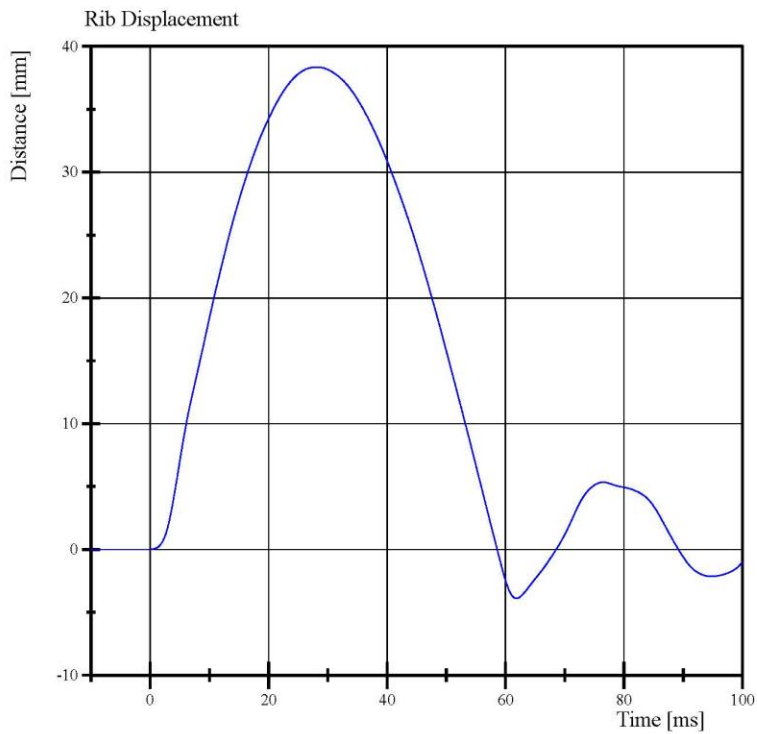
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:09:18 620



# Transportation Research Center Inc.

3.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 38.4 mm at 28.1 ms  
Min: -3.9 mm at 61.8 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:09:59 620



## Transportation Research Center Inc.

4.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
4.0 m/s Test Rib Displacement (807 mm to 823 mm)	46 - 51 mm	49.5 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 816 mm**

**Rib Foam S/N: EK6970**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:04:14 515

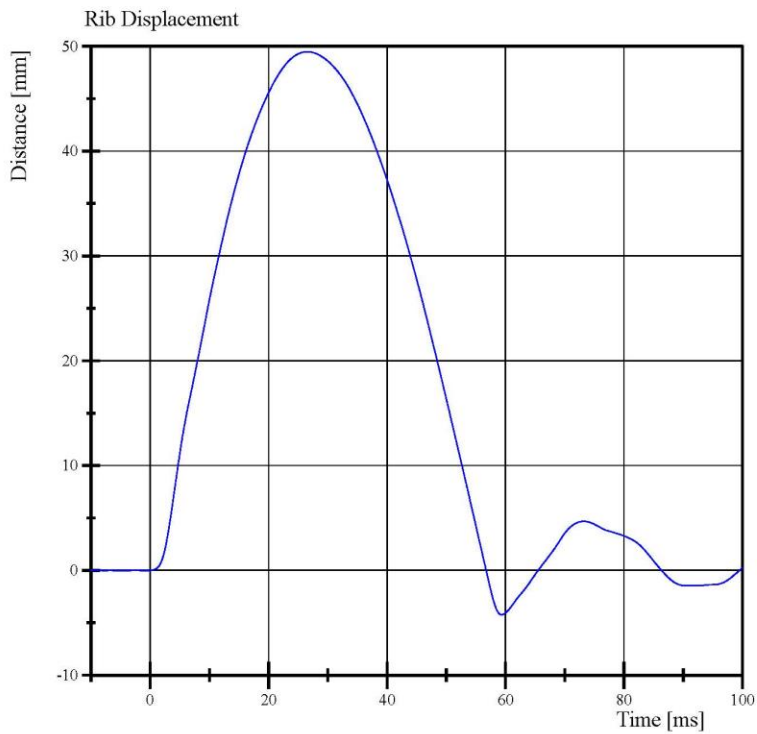


Report Number: F030\_ERF104

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# Transportation Research Center Inc.

4.0 m/s Middle Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 49.5 mm at 26.6 ms  
Min: -4.2 mm at 59.4 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:04:46 515



## Transportation Research Center Inc.

3.0 m/s Lower Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	50 %	Yes
3.0 m/s Test Rib Displacement (454 mm to 464 mm)	36 - 40 mm	38.0 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 462 mm**

**Rib Foam S/N: EK6971**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:18:33 623

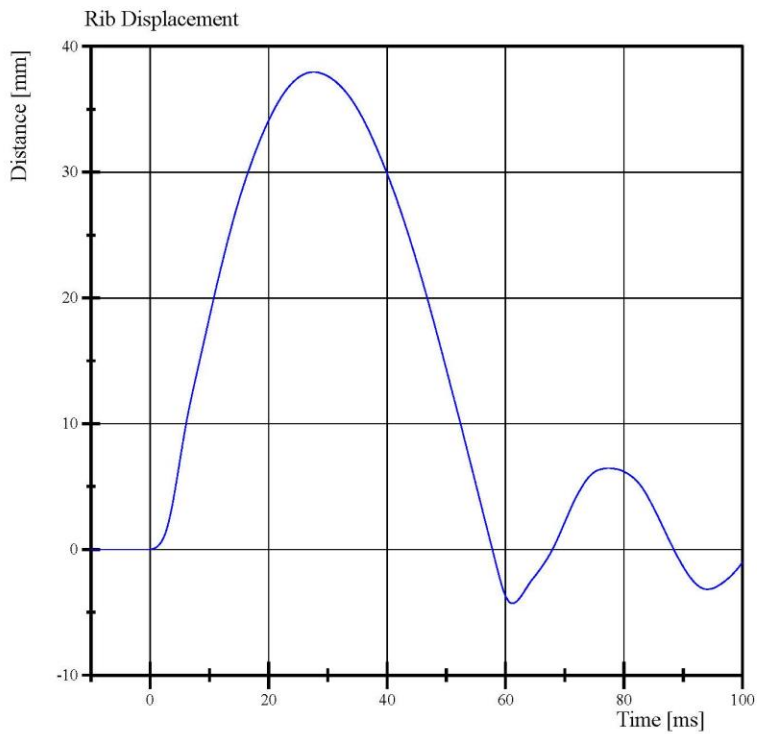


Report Number: F030\_ERF104

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# Transportation Research Center Inc.

3.0 m/s Lower Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 38.0 mm at 27.6 ms  
Min: -4.3 mm at 61.1 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:19:05 623



## Transportation Research Center Inc.

4.0 m/s Lower Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	52 %	Yes
4.0 m/s Test Rib Displacement (807 mm to 823 mm)	46 - 51 mm	46.5 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Drop Height: 816 mm**

**Rib Foam S/N: EK6971**

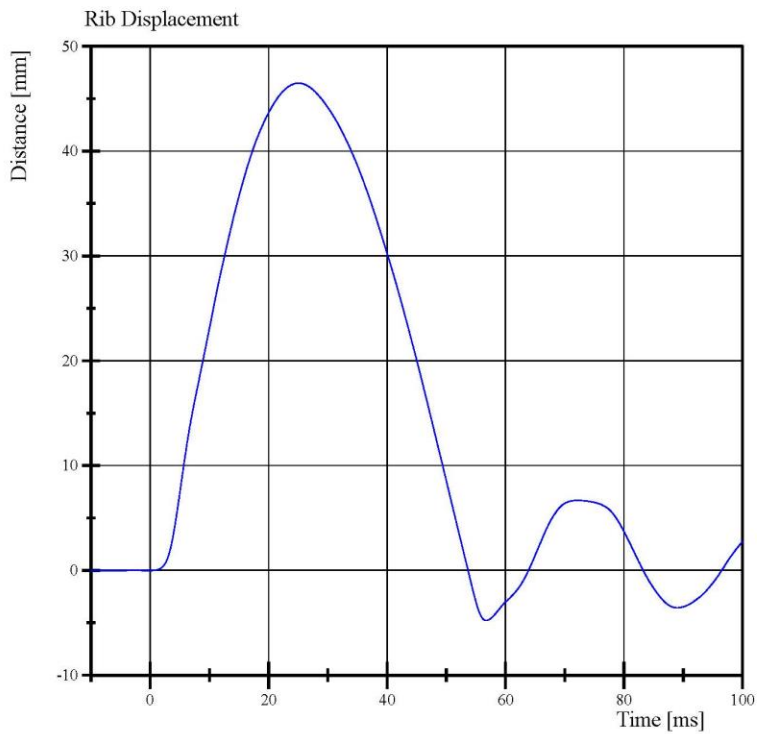
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:12:50 498



# Transportation Research Center Inc.

4.0 m/s Lower Full Rib Module  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 46.5 mm at 25.0 ms  
Min: -4.8 mm at 56.7 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 11:13:17 498



## Transportation Research Center Inc.

Left Lateral Thorax  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	49 %	Yes
Impactor Velocity	5.4 - 5.60 m/s	5.442 m/s	Yes
Peak Impactor Force after 6 ms	(-5,100) - (-6,200) N	-5,469.8 N	Yes
Upper Rib Displacement	34 - 41 mm	38.6 mm	Yes
Center Rib Displacement	37 - 45 mm	40.1 mm	Yes
Lower Rib Displacement	37 - 44 mm	39.8 mm	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

Upper Rib Module S/N: 175-4008-A

Upper Rib Foam S/N: 175-4003-EK6973

Middle Rib Module S/N: 175-4008-A

Middle Rib Foam S/N: 175-4003-EK6970

Lower Rib Module S/N: 175-4008-A-06-017

Lower Rib Foam S/N: 175-4008-EK6971

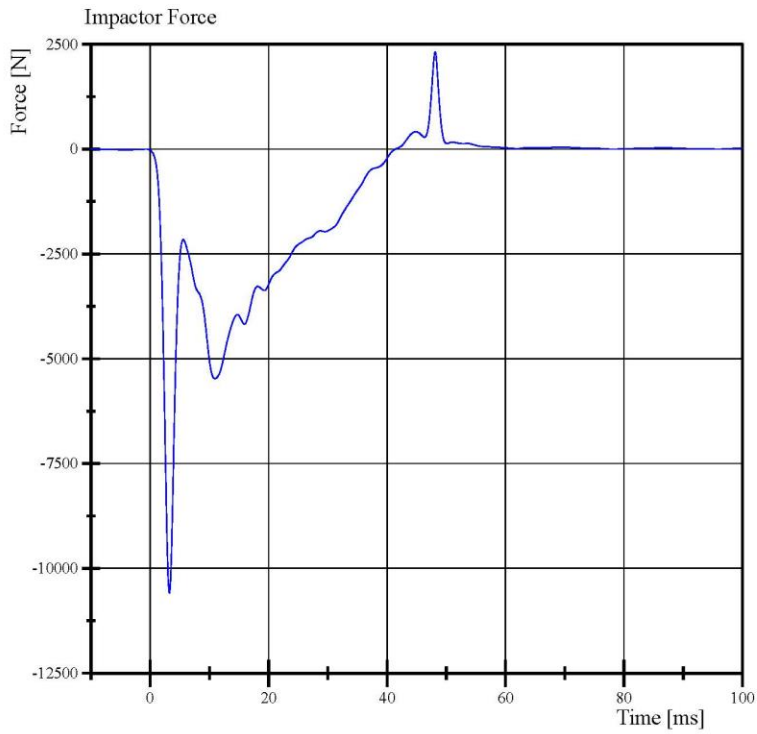
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:13:35 462.



# Transportation Research Center Inc.

Left Lateral Thorax  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 2,317.6 N at 48.1 ms  
Min: -10,586.8 N at 3.3 ms

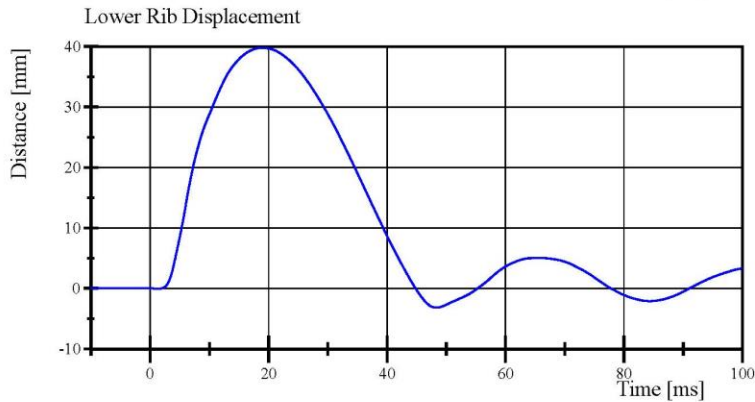
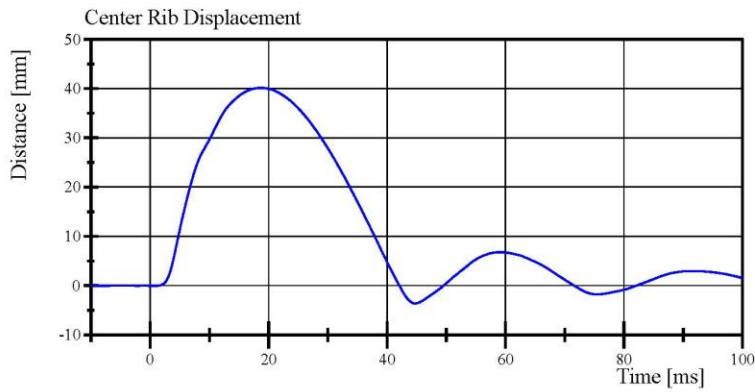
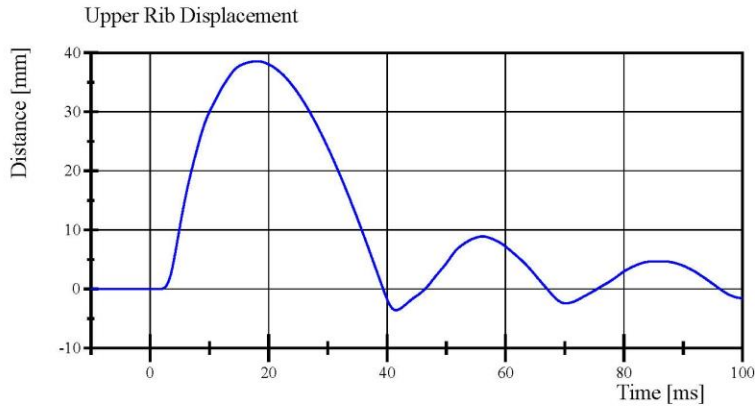
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:14:05 462.



# Transportation Research Center Inc.

Left Lateral Thorax  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025



Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:14:06 462.



## Transportation Research Center Inc.

Left Lateral Lumbar  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.6 °C	Yes
Relative Humidity	10 - 70 %	52 %	Yes
Pendulum Integrated Velocity Change within Corridor	Yes	Yes	Yes
Pendulum Velocity	(-5.95) - (-6.15) m/s	-6.133 m/s	Yes
Maximum Headform Flexion			
Peak	(-45) - (-55) deg	-50.9 deg	Yes
Time of Peak	39 - 53 ms	46.7 ms	Yes
Headform Flexion Decay			
- Peak to Zero	37 - 57 ms	39.4 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Lumbar S/N: FB7553**

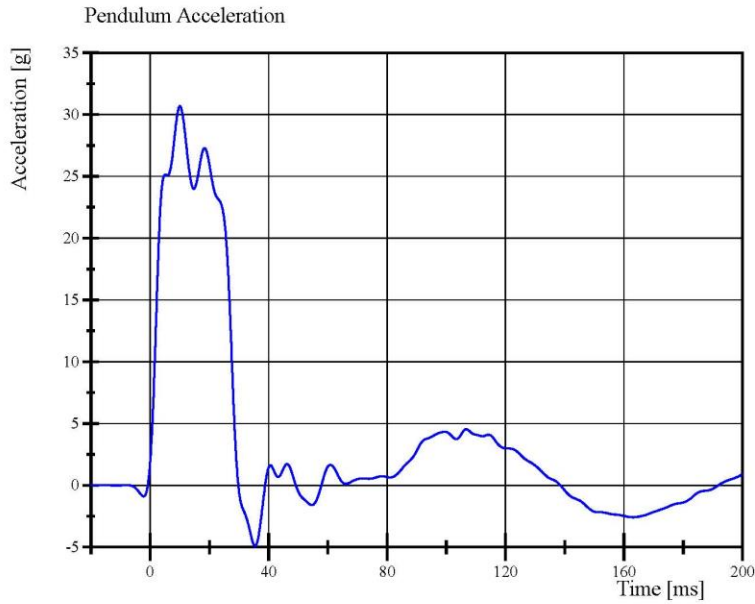
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 14:53:22 671

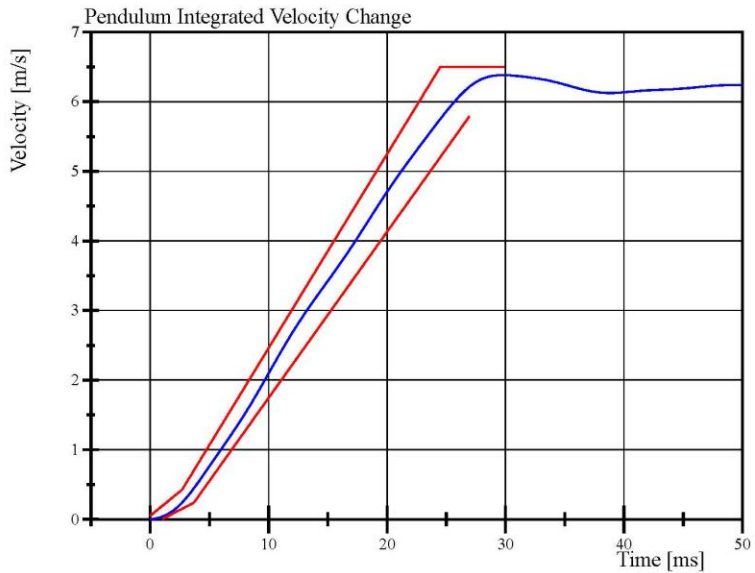


# Transportation Research Center Inc.

Left Lateral Lumbar  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/5/2025



Filter Class: CFC\_60  
Max: 30.7 g at 10.1 ms  
Min: -4.9 g at 35.4 ms



Filter Class: CFC\_60  
Max: 6.4 m/s at 29.8 ms  
Min: 0.0 m/s at 0.0 ms

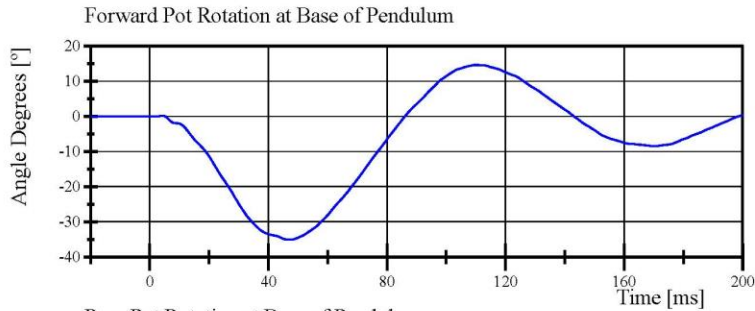
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 14:54:02 671

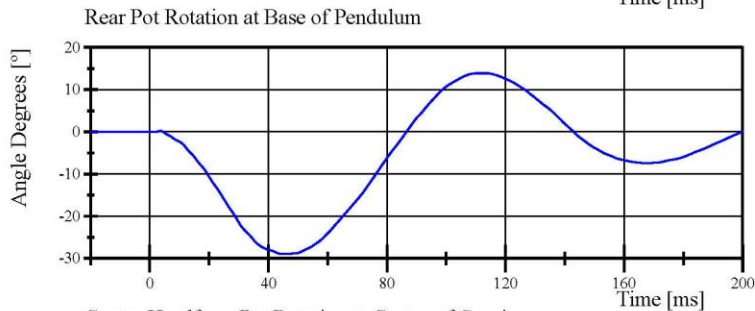


# Transportation Research Center Inc.

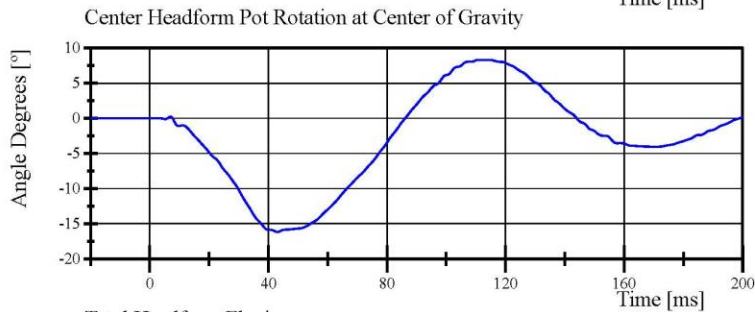
Left Lateral Lumbar  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/5/2025



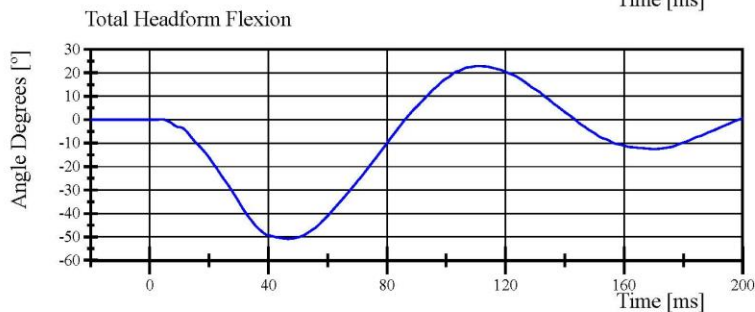
Filter Class: CFC\_180  
Max: 14.6 ° at 109.9 ms  
Min: -35.1 ° at 47.0 ms



Filter Class: CFC\_180  
Max: 13.9 ° at 113.7 ms  
Min: -28.9 ° at 44.4 ms



Filter Class: CFC\_180  
Max: 8.3 ° at 110.9 ms  
Min: -16.2 ° at 43.0 ms



Filter Class: CFC\_180  
Max: 22.9 ° at 110.6 ms  
Min: -50.9 ° at 46.7 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.05.2025 14:54:03 671



# Transportation Research Center Inc.

Left Lateral Abdomen  
ES-2re Serial No. F030 Certification No. 104-1  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	49 %	Yes
Test Probe Velocity	3.9 - 4.1 m/s	4.07 m/s	Yes
Test Probe Force			
Peak	4,000 - 4,800 N	4,361.6 N	Yes
Time of Peak	10.6 - 13.0 ms	11.76 ms	Yes
Total Abdominal Force			
Peak	2,200 - 2,700 N	2,586.3 N	Yes
Time of Peak	10.0 - 12.3 ms	11.52 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Abdomen S/N: 1066**

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:19:04 625

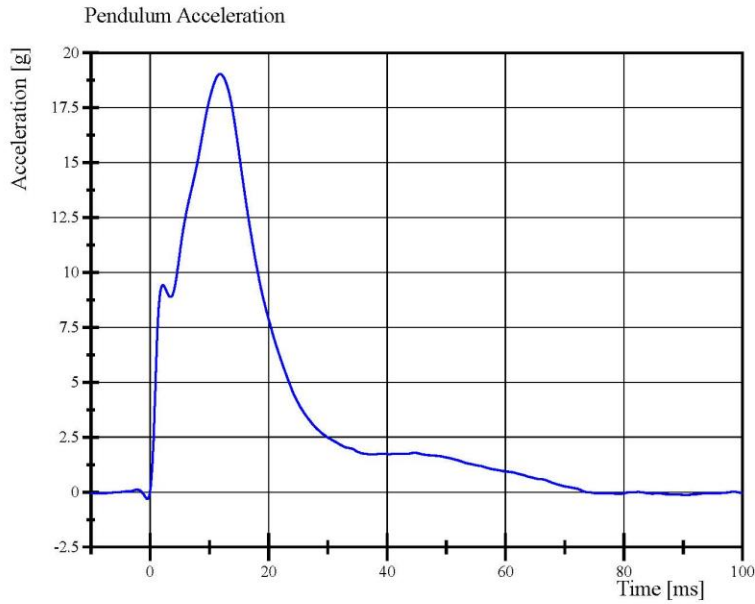


# Transportation Research Center Inc.

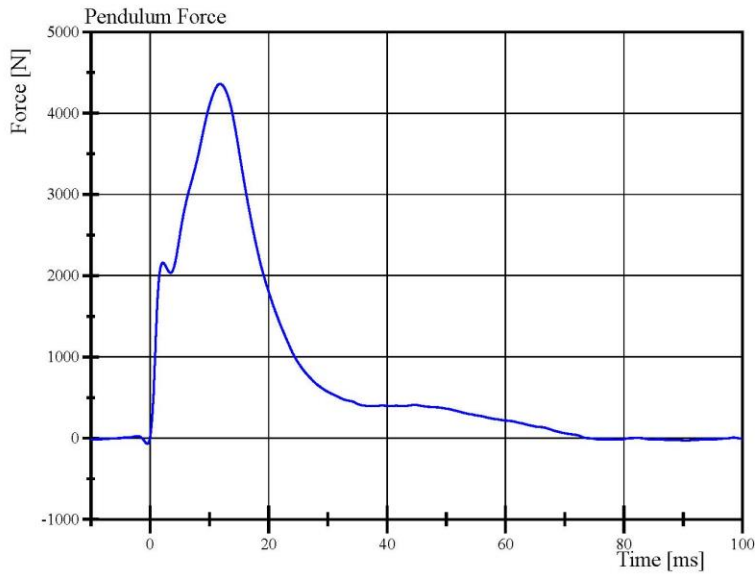
Left Lateral Abdomen

ES-2re Serial No. F030 Certification No. 104-1

Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 19.0 g at 11.8 ms  
Min: -0.3 g at -0.5 ms



Filter Class: CFC\_180  
Max: 4,361.6 N at 11.8 ms  
Min: -69.6 N at -0.5 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:19:24 625

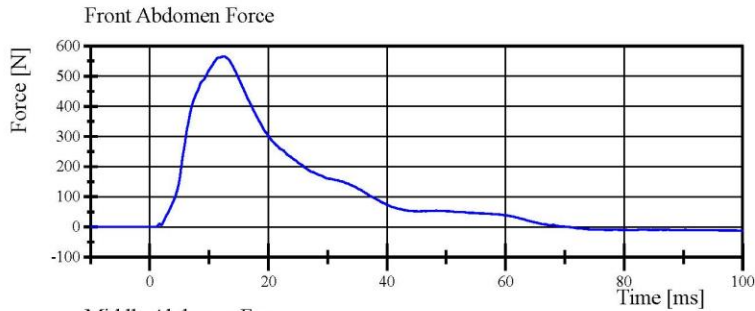


# Transportation Research Center Inc.

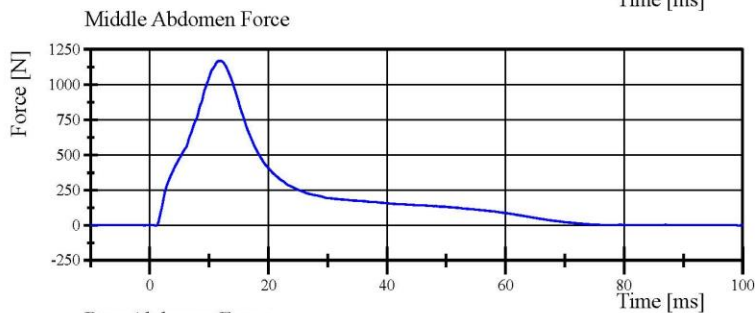
Left Lateral Abdomen

ES-2re Serial No. F030 Certification No. 104-1

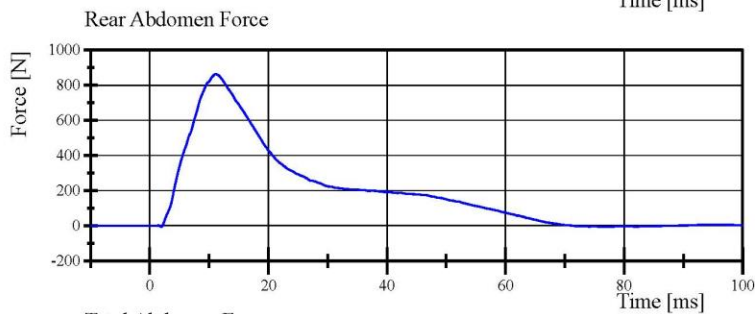
Test Date: 5/6/2025



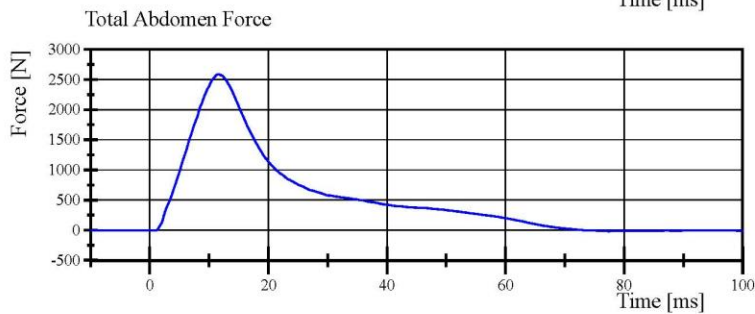
Filter Class: CFC\_600  
Max: 565.4 N at 12.5 ms  
Min: -12.3 N at 99.3 ms



Filter Class: CFC\_600  
Max: 1,169.1 N at 11.6 ms  
Min: -1.4 N at 1.0 ms



Filter Class: CFC\_600  
Max: 862.3 N at 11.1 ms  
Min: -7.0 N at 1.9 ms



Filter Class: CFC\_600  
Max: 2,586.3 N at 11.5 ms  
Min: -15.2 N at 77.4 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:19:24 625



# Transportation Research Center Inc.

Left Lateral Pelvis  
ES-2re Serial No. F030 Certification No. 104-2  
Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	49 %	Yes
Test Probe Velocity	4.2 - 4.4 m/s	4.35 m/s	Yes
Test Probe Force			
Peak	4,700 - 5,400 N	5,295.9 N	Yes
Time of Peak	11.8 - 16.1 ms	13.44 ms	Yes
Pubic Symphysis Force			
Peak	(-1,230) - (-1,590) N	-1,269.0 N	Yes
Time of Peak	12.2 - 17.0 ms	12.96 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Pelvis S/N: NA**

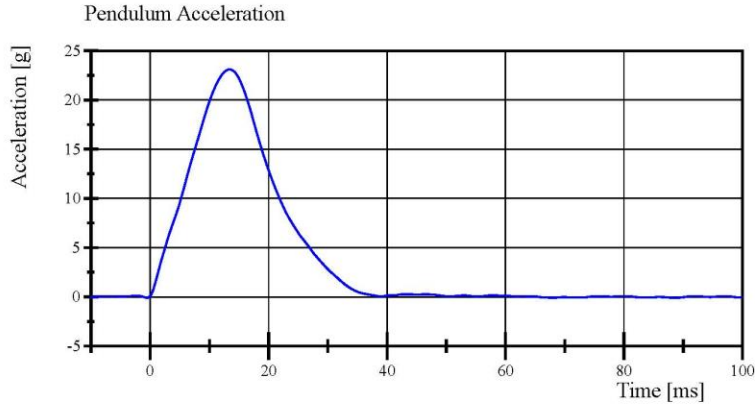
Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:57:26 557

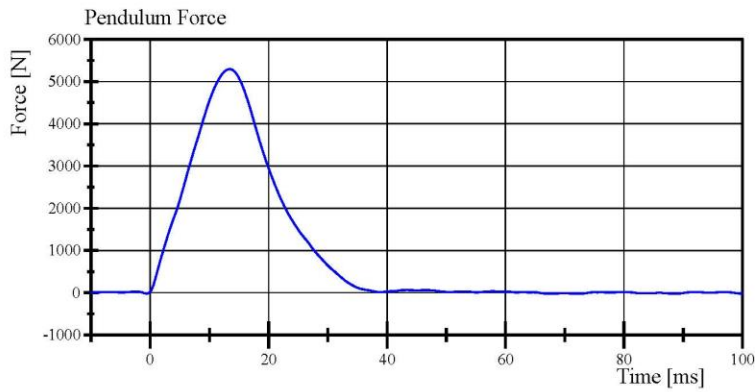


# Transportation Research Center Inc.

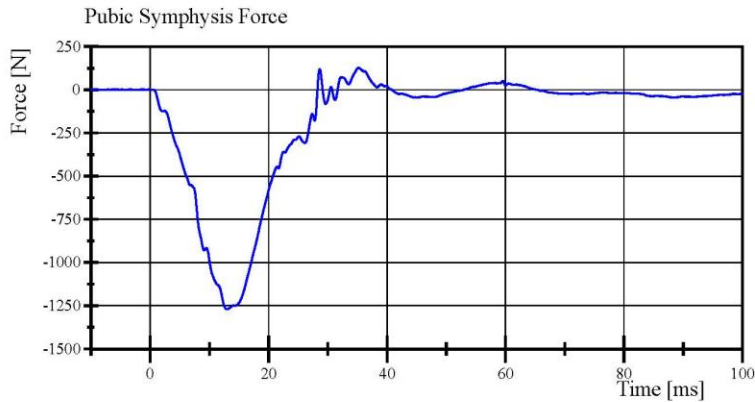
Left Lateral Pelvis  
ES-2re Serial No. F030 Certification No. 104-2  
Test Date: 5/6/2025



Filter Class: CFC\_180  
Max: 23.1 g at 13.4 ms  
Min: -0.1 g at 88.6 ms



Filter Class: CFC\_180  
Max: 5,295.9 N at 13.4 ms  
Min: -23.4 N at 88.6 ms



Filter Class: CFC\_600  
Max: 126.2 N at 35.1 ms  
Min: -1,269.0 N at 13.0 ms

Specification Source: CFR49 Part 572 Subpart U  
with Polarity in accordance with J211

05.06.2025 09:58:15 557



**Pre-Test Calibration Sheets**  
**Passenger S/N DQ0570**

**Transportation Research Center Inc.**  
**SIDI's Dummy - Level D**  
**External Dimensions**  
**Serial No. DQ0570 Calibration No. 35**

Symbol	Description	Specification	Results	Pass
		mm	mm	
A	Sitting Height	772.0 - 788.0	785	Yes
B	Shoulder Pivot Height	437.0 - 453.0	445	Yes
C	H-Point Height	79.0 - 89.0	83	Yes
D	H-Point from Seat Back	141.0 - 151.0	147	Yes
E	Shoulder Pivot from Backline	97.0 - 107.0	101	Yes
F	Thigh Clearance	119.0 - 135.0	130	Yes
G	Head Breadth	140.0 - 148.0	145	Yes
H	Head Back from Backline	40.0 - 46.0	45	Yes
I	Head Depth	178.0 - 188.0	184	Yes
J	Head Circumference	541.0 - 551.0	545	Yes
K	Buttock to Knee Length	514.0 - 540.0	533	Yes
L	Popliteal Height	343.0 - 369.0	353	Yes
M	Knee Pivot to Floor Height	393.0 - 409.0	400	Yes
N	Buttock Popliteal Length	416.0 - 442.0	427	Yes
O	Chest Depth without Jacket	195.0 - 211.0	200	Yes
P	Foot Length (right)	216.0 - 232.0	220	Yes
P	Foot Length (left)	216.0 - 232.0	220	Yes
Q	Hip Breadth	313.0 - 323.0	316	Yes
R	Arm Length	249.0 - 259.0	254	Yes
S	Knee Joint to seat Back	478.0 - 493.0	486	Yes
V	Shoulder Width (only one arm installed)	341.0 - 357.0	349	Yes
W	Foot Width (right)	78.0 - 94.0	84	Yes
W	Foot Width (left)	78.0 - 94.0	84	Yes
Y	Chest Circumference with Jacket	851.0 - 881.0	870	Yes
Z	Waist Circumference	761.0 - 791.0	780	Yes

Revised 9/29/2005



Report Number: DQ0570\_S2H35

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# Transportation Research Center Inc.

Left Lateral Head Drop

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Peak Head Resultant Acceleration	115 - 137 g	134.9 g	Yes
Peak Head Longitudinal Acceleration	(-15) - 15 g	4.8 g	Yes
Is Head Resultant Acceleration Curve Unimodal within 15% of Peak?	< 15 %	1.36 %	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Head Skin S/N: DP8345**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 12:37:33 233



Report Number: DQ0570\_S2H35

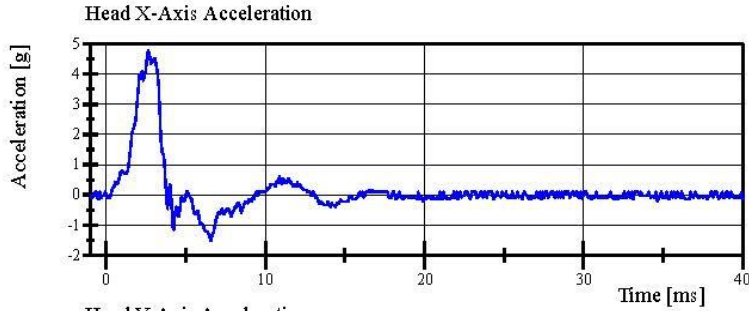
Page 9 of 31

# Transportation Research Center Inc.

Left Lateral Head Drop

SID II: Serial No. DQ0570 Certification No. 35-1

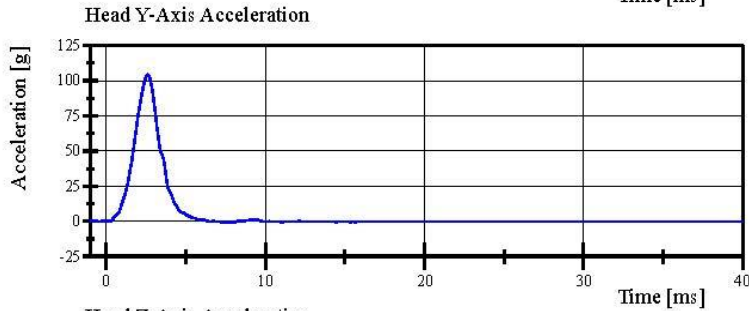
Test Date: 4/11/2025



Filter Class: CFC\_1000

Max: 4.8 g at 2.6 ms

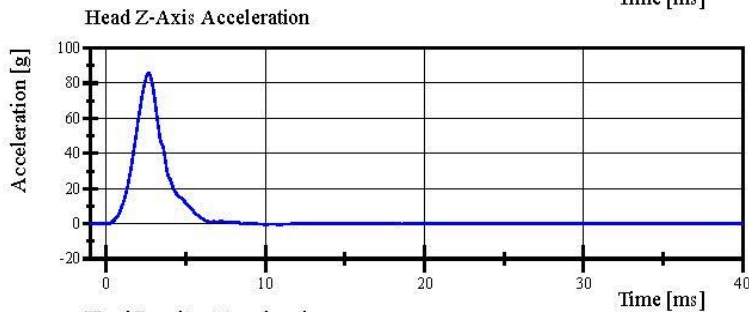
Min: -1.5 g at 6.6 ms



Filter Class: CFC\_1000

Max: 104.4 g at 2.6 ms

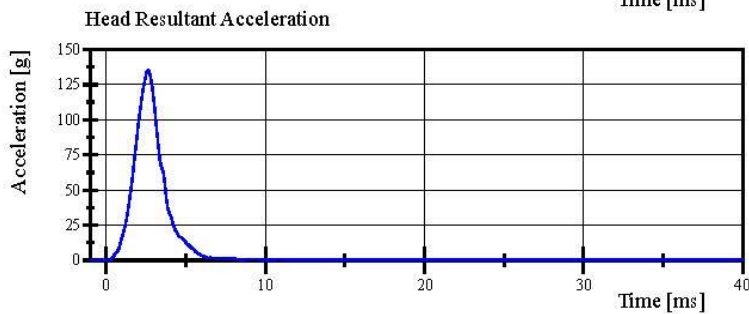
Min: -0.6 g at 7.3 ms



Filter Class: CFC\_1000

Max: 85.8 g at 2.6 ms

Min: -0.5 g at 9.9 ms



Filter Class: CFC\_1000

Max: 134.9 g at 2.6 ms

Min: 0.1 g at 0.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 12:38:38 233



# Transportation Research Center Inc.

Left Lateral Neck

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Pendulum Velocity	(-5.51) - (-5.63) m/s	-5.613 m/s	Yes
Pendulum Integrated Velocity			
Change at 10 ms	2.20 - 2.80 m/s	2.527 m/s	Yes
Change at 15 ms	3.30 - 4.10 m/s	3.696 m/s	Yes
Change at 20 ms	4.40 - 5.40 m/s	4.940 m/s	Yes
Change at 25 ms	5.40 - 6.10 m/s	5.882 m/s	Yes
Change at 25 to 100 ms	5.50 - 6.20 m/s	5.893 m/s	Yes
Maximum Headform Flexion			
Peak	(-71) - (-81) deg	-71.5 deg	Yes
Time of Peak	50 - 70 ms	58.6 ms	Yes
Total Neck Occipital Condyles Moment	36 - 44 N·m	42.0 N·m	Yes
Decay to 0 N·m	102 - 126 ms	107.9 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Neck S/N: 180-2001717**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 13:13:15 750

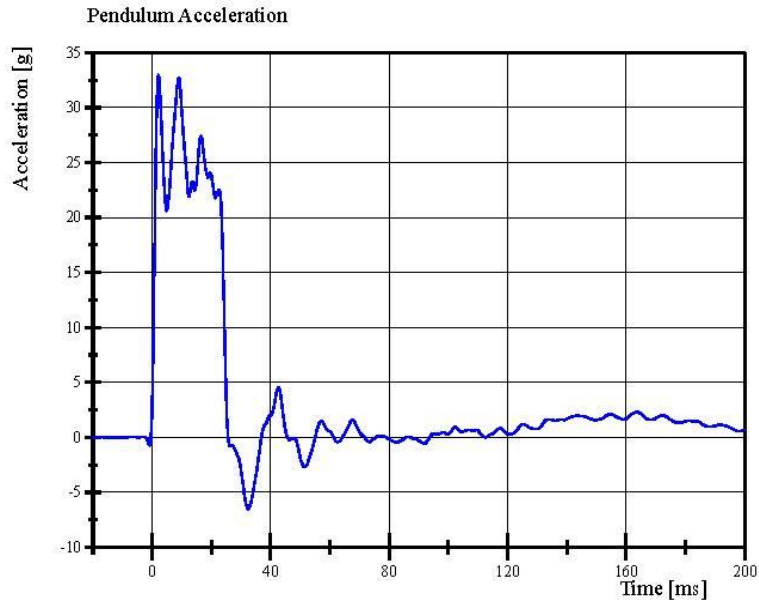


# Transportation Research Center Inc.

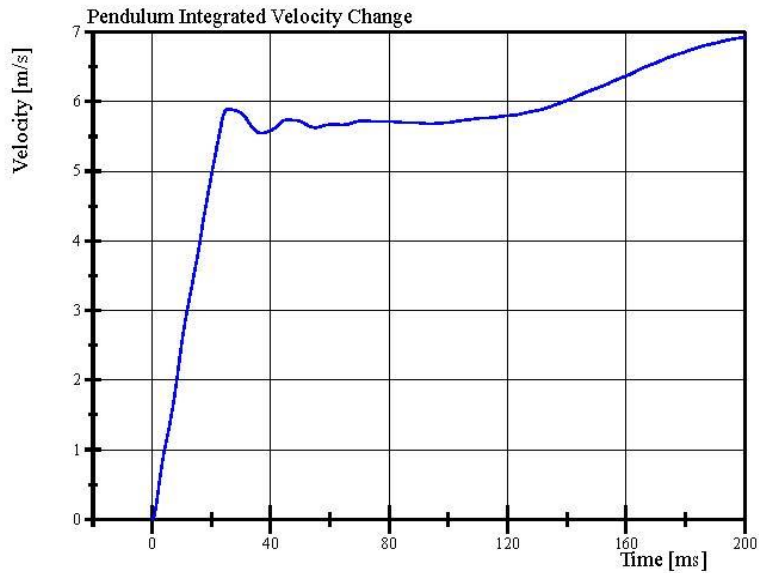
Left Lateral Neck

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 33.0 g at 2.2 ms  
Min: -6.6 g at 32.5 ms



Filter Class: CFC\_180  
Max: 6.9 m/s at 200.0 ms  
Min: 0.0 m/s at 0.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 13:14:20 750

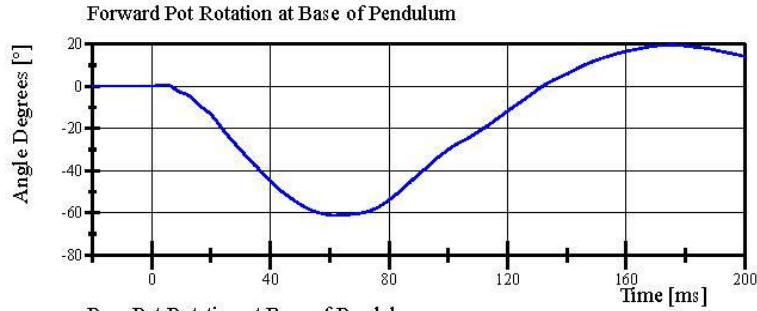


# Transportation Research Center Inc.

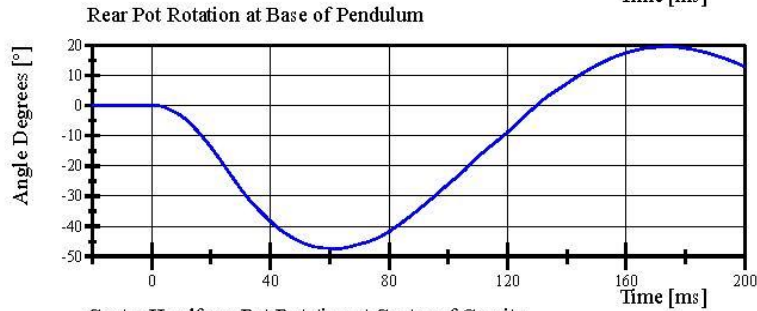
Left Lateral Neck

SID II: Serial No. DQ0570 Certification No. 35-1

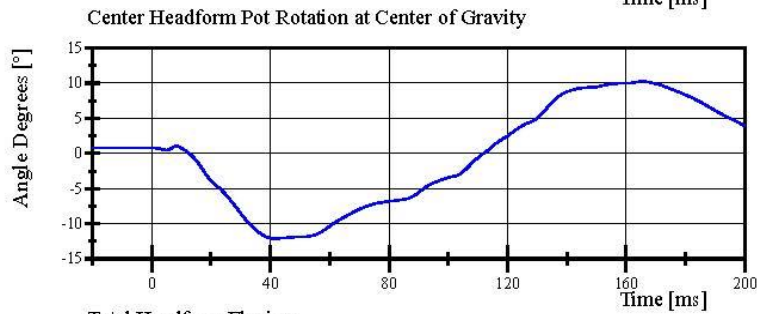
Test Date: 4/11/2025



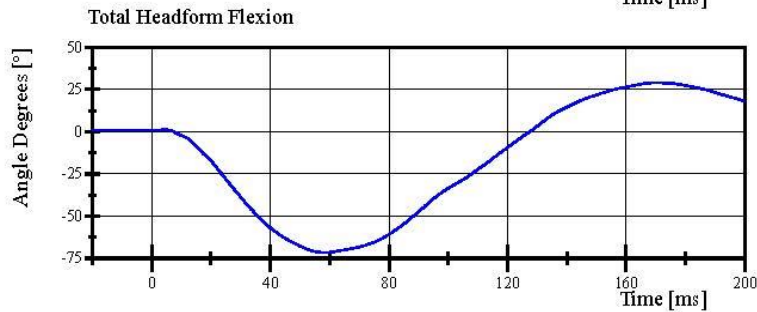
Filter Class: CFC\_60  
Max: 19.5 ° at 175.8 ms  
Min: -61.2 ° at 61.4 ms



Filter Class: CFC\_60  
Max: 19.6 ° at 174.2 ms  
Min: -47.5 ° at 62.1 ms



Filter Class: CFC\_60  
Max: 10.2 ° at 165.3 ms  
Min: -12.1 ° at 41.5 ms



Filter Class: CFC\_60  
Max: 29.1 ° at 170.3 ms  
Min: -71.5 ° at 58.6 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 13:14:20 750



# Transportation Research Center Inc.

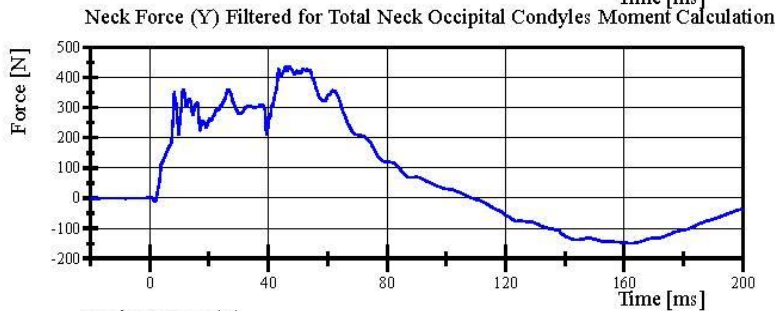
Left Lateral Neck

SID II: Serial No. DQ0570 Certification No. 35-1

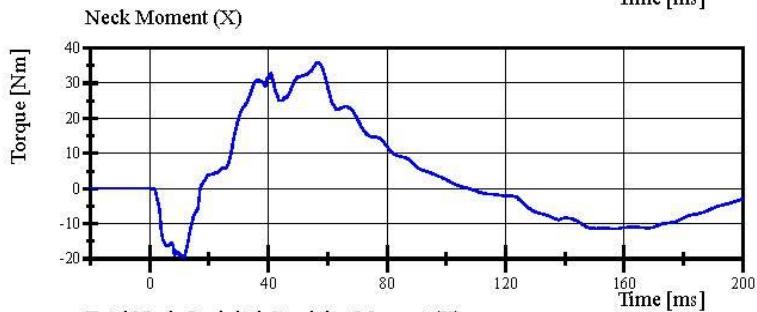
Test Date: 4/11/2025



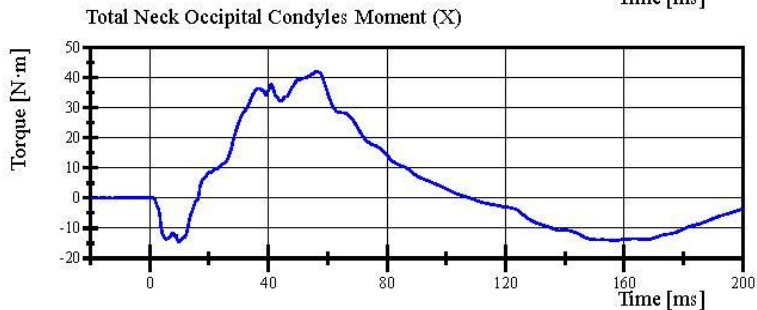
Filter Class: CFC\_1000  
Max: 443.0 N at 46.0 ms  
Min: -149.8 N at 162.6 ms



Filter Class: CFC\_600  
Max: 437.6 N at 45.9 ms  
Min: -149.6 N at 163.0 ms



Filter Class: CFC\_600  
Max: 35.8 Nm at 56.9 ms  
Min: -19.7 Nm at 11.2 ms



Filter Class: Without\_(Constar  
Max: 42.0 N·m at 56.3 ms  
Min: -14.4 N·m at 9.7 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 13:14:20 750



# Transportation Research Center Inc.

Left Lateral Shoulder

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Impactor Velocity	4.2 - 4.4 m/s	4.33 m/s	Yes
Impactor Acceleration	(-13) - (-18) g	-15.9 g	Yes
Shoulder Displacement	28 - 37 mm	28.8 mm	Yes
Upper Spine Lateral Acceleration	17 - 22 g	20.9 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Left Arm S/N: DP8451**

**Shoulder Rib S/N: 180-3355 DL9246**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 08:52:34 502

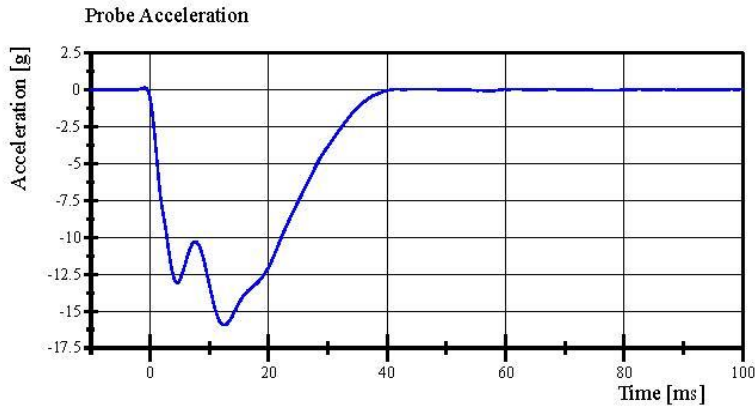


# Transportation Research Center Inc.

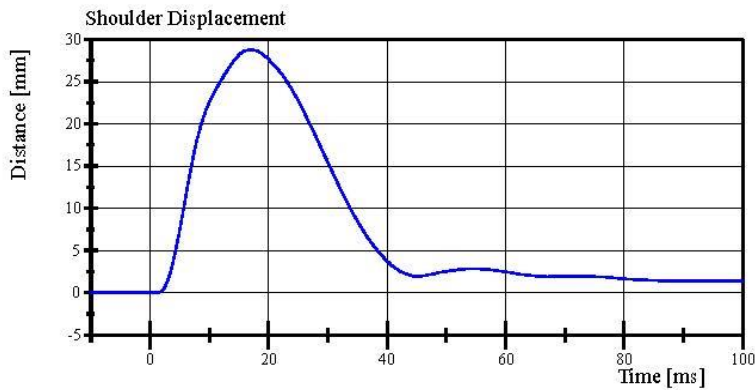
Left Lateral Shoulder

SID II: Serial No. DQ0570 Certification No. 35-1

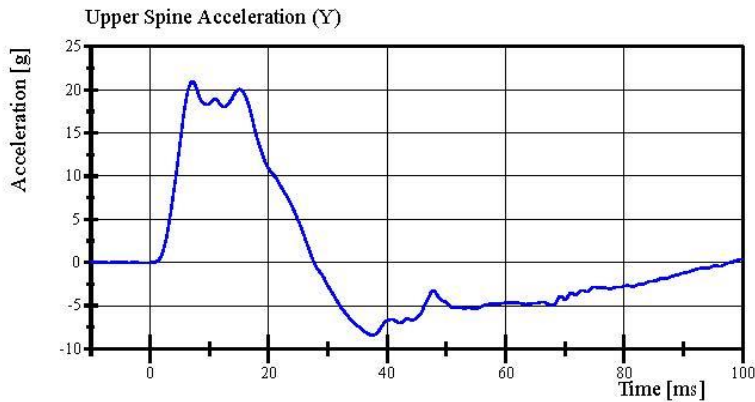
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 0.1 g at -1.0 ms  
Min: -15.9 g at 12.5 ms



Filter Class: CFC\_600  
Max: 28.8 mm at 17.0 ms  
Min: -0.0 mm at 0.6 ms



Filter Class: CFC\_180  
Max: 20.9 g at 7.1 ms  
Min: -8.4 g at 37.5 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 08:53:06 502



# Transportation Research Center Inc.

Left Lateral Thorax with Arm

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Impactor Velocity	6.60 - 6.80 m/s	6.723 m/s	Yes
Impactor Acceleration	(-30) - (-36) g	-35.4 g	Yes
Shoulder Displacement	31 - 40 mm	31.5 mm	Yes
Upper Thorax Rib Displacement	25 - 32 mm	26.9 mm	Yes
Center Thorax Rib Displacement	30 - 36 mm	31.3 mm	Yes
Lower Thorax Rib Displacement	32 - 38 mm	34.6 mm	Yes
Upper Spine Lateral Acceleration	34 - 43 g	39.2 g	Yes
Lower Spine Lateral Acceleration	29 - 37 g	34.8 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Left Arm S/N: DP8451**

**Shoulder Rib S/N: 180-3355 DL9246**

**Upper Thorax Rib S/N: 180-3362 DP6492**

**Middle Thorax Rib S/N: 180-3362 DP6493**

**Lower Thorax Rib S/N: 180-3362 DP7664**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 09:59:39 626

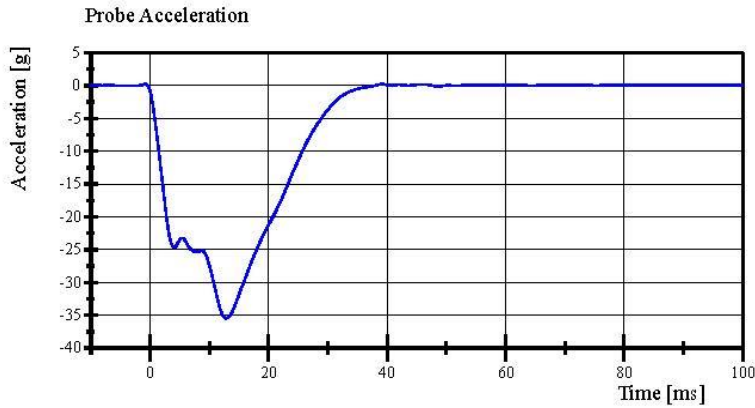


# Transportation Research Center Inc.

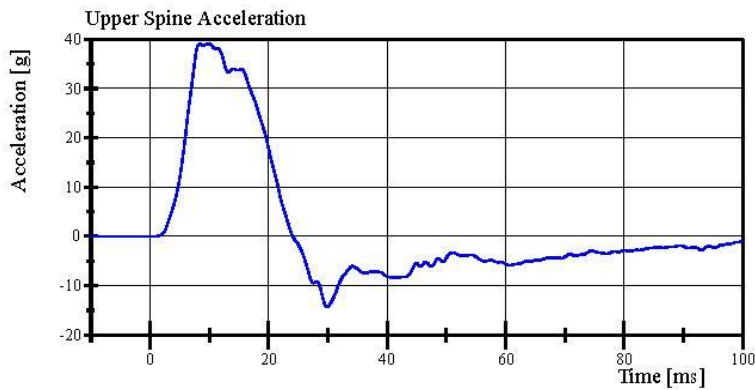
Left Lateral Thorax with Arm

SID II: Serial No. DQ0570 Certification No. 35-1

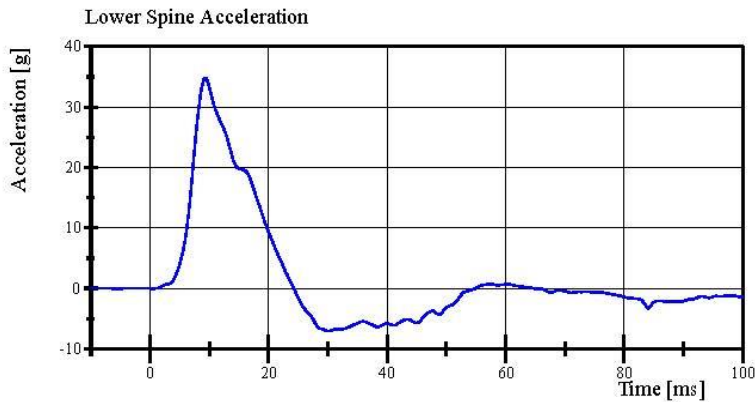
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 0.2 g at -0.8 ms  
Min: -35.4 g at 12.9 ms



Filter Class: CFC\_180  
Max: 39.2 g at 9.9 ms  
Min: -14.2 g at 29.9 ms



Filter Class: CFC\_180  
Max: 34.8 g at 9.3 ms  
Min: -7.1 g at 30.2 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 10:00:58 626

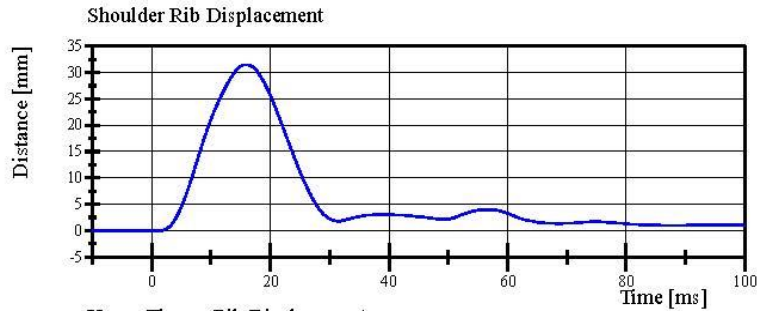


# Transportation Research Center Inc.

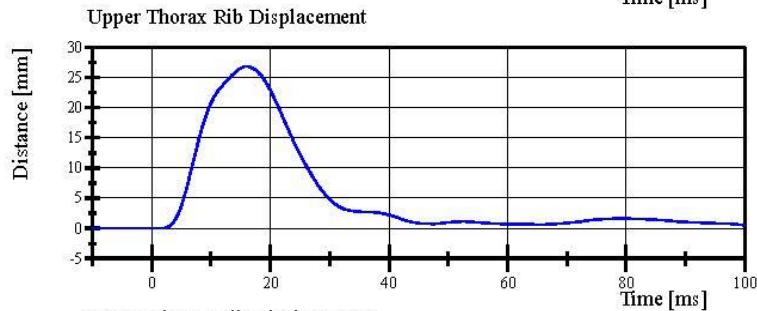
Left Lateral Thorax with Arm

SID II: Serial No. DQ0570 Certification No. 35-1

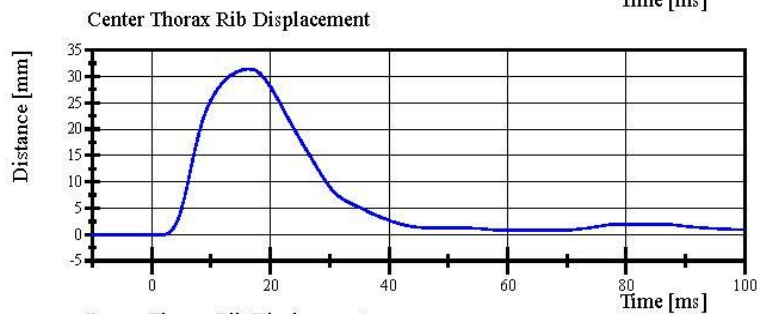
Test Date: 4/11/2025



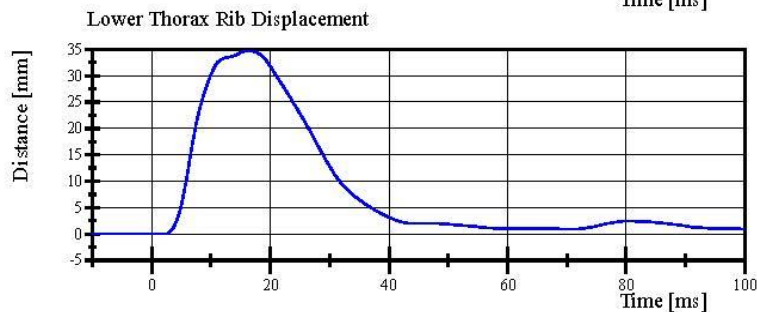
Filter Class: CFC\_600  
Max: 31.5 mm at 15.9 ms  
Min: -0.0 mm at 1.4 ms



Filter Class: CFC\_600  
Max: 26.9 mm at 16.0 ms  
Min: -0.0 mm at -5.0 ms



Filter Class: CFC\_600  
Max: 31.3 mm at 16.1 ms  
Min: -0.0 mm at -4.1 ms



Filter Class: CFC\_600  
Max: 34.6 mm at 16.0 ms  
Min: -0.0 mm at 2.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 10:00:58 626



## Transportation Research Center Inc.

Left Lateral Thorax without Arm

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Impactor Velocity	4.20 - 4.40 m/s	4.242 m/s	Yes
Impactor Acceleration	(-14) - (-18) g	-16.1 g	Yes
Upper Thorax Rib Displacement	32 - 40 mm	36.8 mm	Yes
Center Thorax Rib Displacement	39 - 45 mm	41.0 mm	Yes
Lower Thorax Rib Displacement	35 - 43 mm	37.6 mm	Yes
Upper Spine Lateral Acceleration	13 - 17 g	14.8 g	Yes
Lower Spine Lateral Acceleration	7 - 11 g	9.8 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Upper Thorax Rib S/N: 180-3362 DP6492**

**Middle Thorax Rib S/N: 180-3362 DP6493**

**Lower Thorax Rib S/N: 180-3362 DP7664**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 09:26:55 579

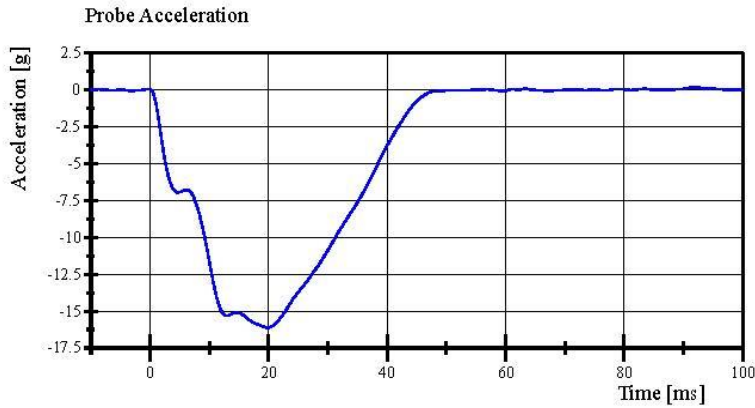


# Transportation Research Center Inc.

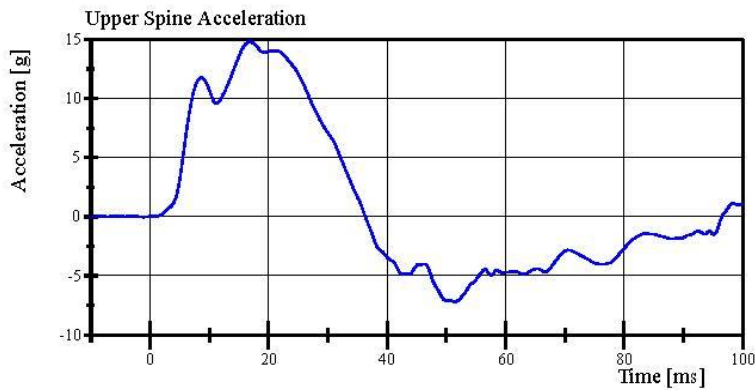
Left Lateral Thorax without Arm

SID II: Serial No. DQ0570 Certification No. 35-1

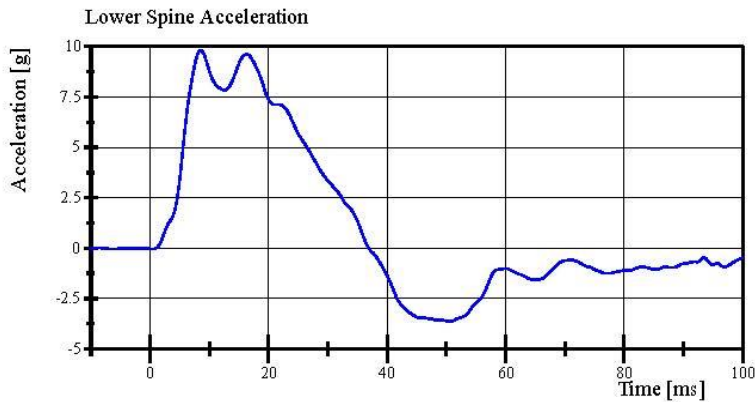
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 0.2 g at 91.8 ms  
Min: -16.1 g at 19.8 ms



Filter Class: CFC\_180  
Max: 14.8 g at 16.8 ms  
Min: -7.2 g at 51.4 ms



Filter Class: CFC\_180  
Max: 9.8 g at 8.5 ms  
Min: -3.6 g at 50.6 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 09:27:35 579

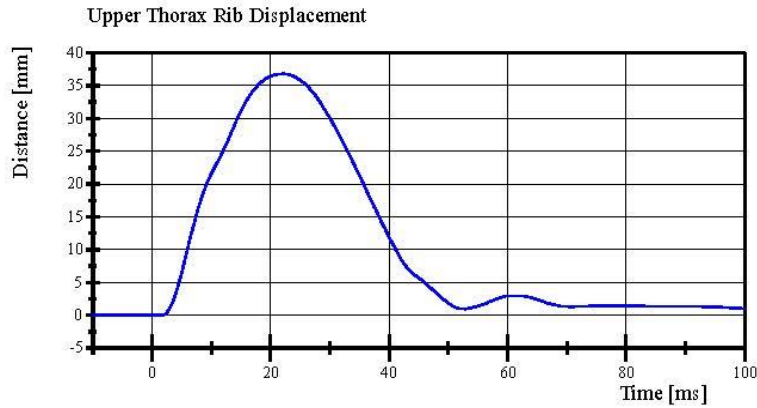


# Transportation Research Center Inc.

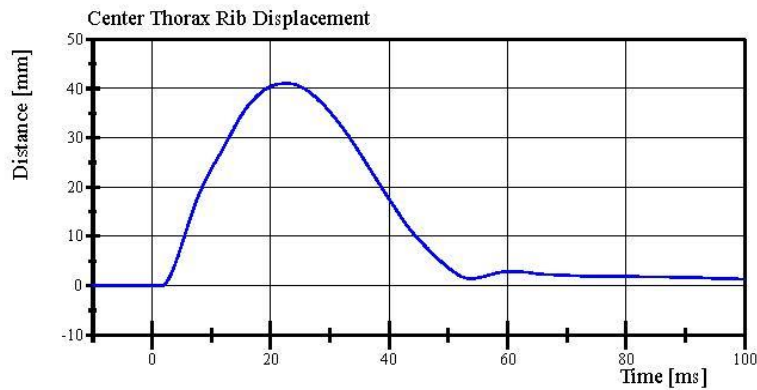
Left Lateral Thorax without Arm

SID II: Serial No. DQ0570 Certification No. 35-1

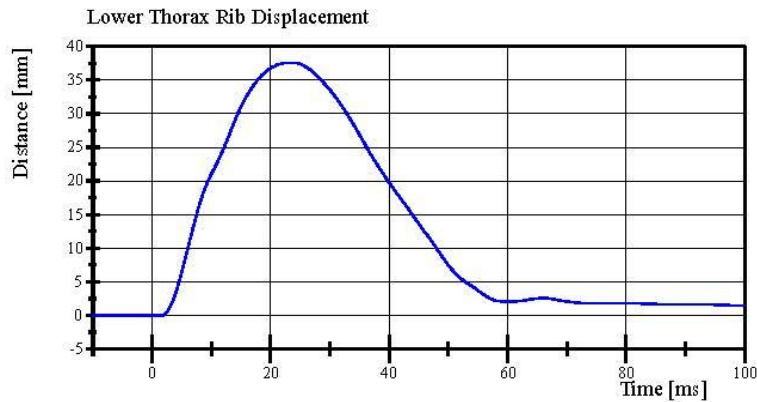
Test Date: 4/11/2025



Filter Class: CFC\_600  
Max: 36.8 mm at 22.2 ms  
Min: -0.0 mm at -8.6 ms



Filter Class: CFC\_600  
Max: 41.0 mm at 22.6 ms  
Min: -0.0 mm at 1.6 ms



Filter Class: CFC\_600  
Max: 37.6 mm at 23.7 ms  
Min: -0.0 mm at 1.7 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 09:27:36 579



# Transportation Research Center Inc.

Left Lateral Abdomen

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Impactor Velocity	4.2 - 4.4 m/s	4.38 m/s	Yes
Impactor Acceleration	(-12) - (-16) g	-15.1 g	Yes
Upper Abdominal Rib Displacement	36 - 47 mm	40.9 mm	Yes
Lower Abdominal Rib Displacement	33 - 44 mm	38.0 mm	Yes
Lower Spine Lateral Acceleration	9 - 14.0 g	11.58 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Upper Abdominal Rib S/N: 180-3368 DP5142**

**Lower Abdominal Rib S/N: 180-3368 DP5143**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 09:15:01 434



Report Number: DQ0570\_S2H35

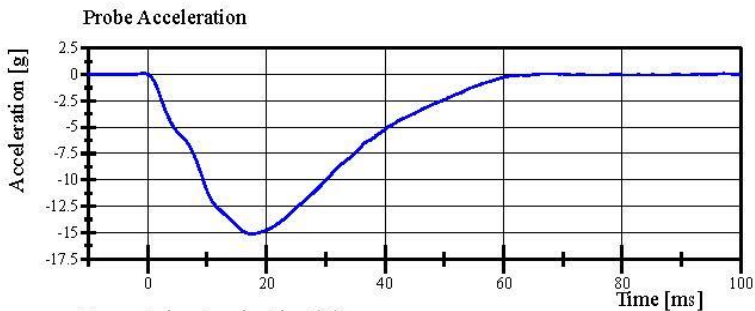
Page 23 of 31

# Transportation Research Center Inc.

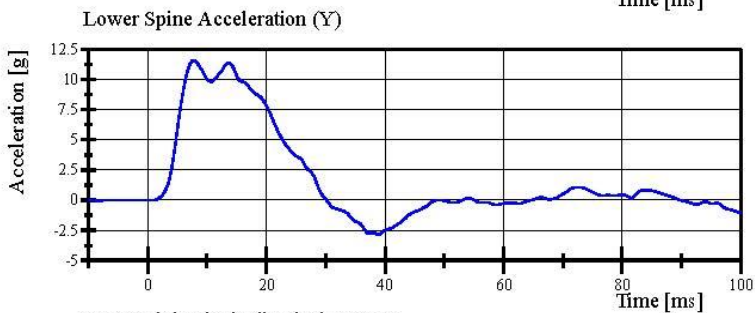
Left Lateral Abdomen

SID II: Serial No. DQ0570 Certification No. 35-1

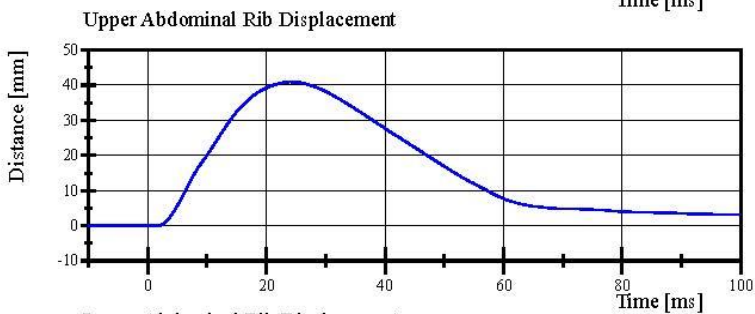
Test Date: 4/11/2025



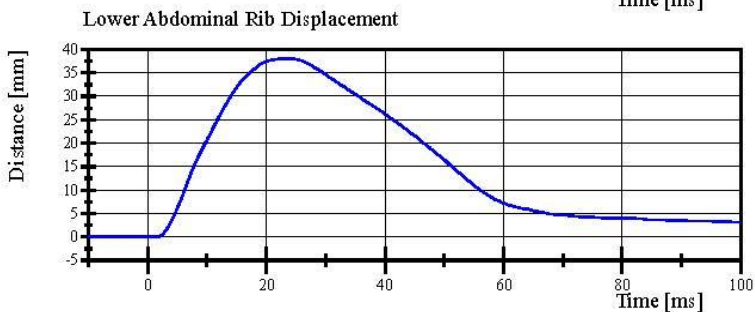
Filter Class: CFC\_180  
Max: 0.1 g at -0.7 ms  
Min: -15.1 g at 17.5 ms



Filter Class: CFC\_180  
Max: 11.6 g at 7.7 ms  
Min: -2.8 g at 38.9 ms



Filter Class: CFC\_600  
Max: 40.9 mm at 24.0 ms  
Min: -0.0 mm at 1.7 ms



Filter Class: CFC\_600  
Max: 38.0 mm at 23.7 ms  
Min: -0.0 mm at 1.6 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 09:15:35 434



## Transportation Research Center Inc.

Left Lateral Pelvis

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Pendulum Velocity	6.6 - 6.8 m/s	6.64 m/s	Yes
Impactor Acceleration	(-38.0) - (-47.0) g	-42.25 g	Yes
Peak Pelvis Lateral Acceleration after 6ms	34 - 42 g	36.9 g	Yes
Acetabulum Force	3,600 - 4,300 N	3,712.9 N	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Pelvis Skin S/N: 1173**

**Pelvis Plug Info:**

**Manufacturer: SACO**

**S/N: 14477**

**Cal Date: 20201218**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 10:57:56 461



Report Number: DQ0570\_S2H35

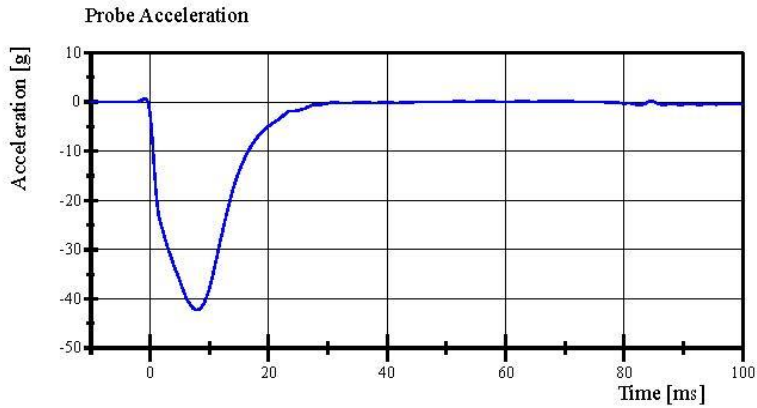
Page 27 of 31

# Transportation Research Center Inc.

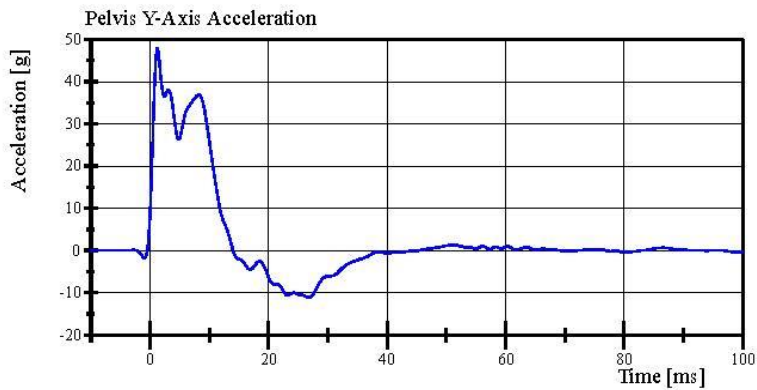
Left Lateral Pelvis

SID II: Serial No. DQ0570 Certification No. 35-1

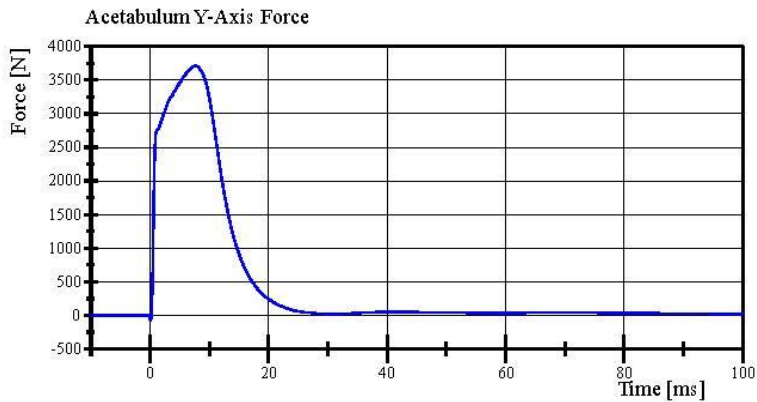
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 0.7 g at -0.9 ms  
Min: -42.3 g at 7.8 ms



Filter Class: CFC\_180  
Max: 47.8 g at 1.2 ms  
Min: -11.1 g at 26.8 ms



Filter Class: CFC\_600  
Max: 3,712.9 N at 7.6 ms  
Min: -67.8 N at 0.1 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 10:59:28.461



# Transportation Research Center Inc.

Left Lateral Iliac

SID II: Serial No. DQ0570 Certification No. 35-1

Test Date: 4/11/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Pendulum Velocity	4.2 - 4.4 m/s	4.21 m/s	Yes
Impactor Acceleration	(-36) - (-45) g	-40.5 g	Yes
Peak Pelvis Lateral Acceleration	28 - 39 g	35.7 g	Yes
Iliac Force	4,100 - 5,100 N	4,658.4 N	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Pelvis Skin S/N: 1173**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 08:38:00.421

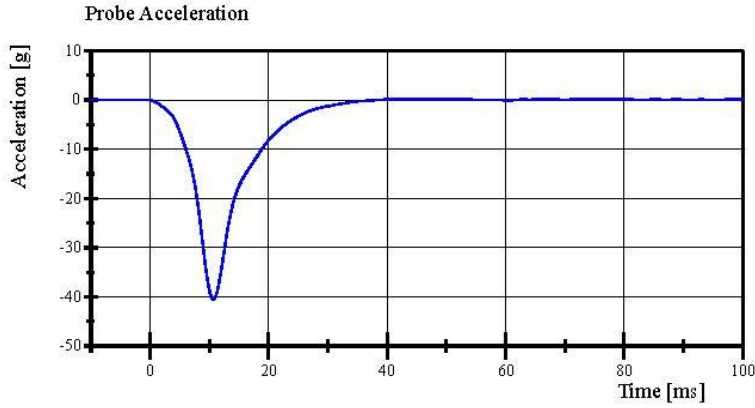


# Transportation Research Center Inc.

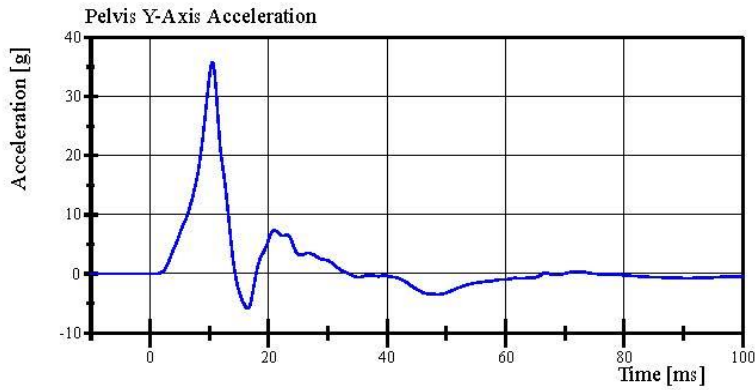
Left Lateral Iliac

SID II: Serial No. DQ0570 Certification No. 35-1

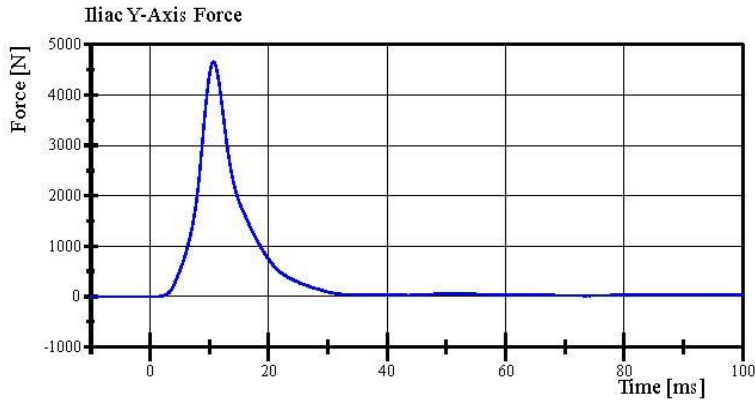
Test Date: 4/11/2025



Filter Class: CFC\_180  
Max: 0.1 g at 41.8 ms  
Min: -40.5 g at 10.6 ms



Filter Class: CFC\_180  
Max: 35.7 g at 10.5 ms  
Min: -5.9 g at 16.5 ms



Filter Class: CFC\_600  
Max: 4,658.4 N at 10.7 ms  
Min: -0.7 N at -2.8 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

04.11.2025 08:38:26.421



**Post-Test Calibration Sheets  
Passenger S/N DQ0570**

**Transportation Research Center Inc.**  
**SIDI's Dummy - Level D**  
**External Dimensions**  
**Serial No. DQ0570 Calibration No. 36**

Symbol	Description	Specification	Results	Pass
		mm	mm	
A	Sitting Height	772.0 - 788.0	785	Yes
B	Shoulder Pivot Height	437.0 - 453.0	445	Yes
C	H-Point Height	79.0 - 89.0	83	Yes
D	H-Point from Seat Back	141.0 - 151.0	147	Yes
E	Shoulder Pivot from Backline	97.0 - 107.0	101	Yes
F	Thigh Clearance	119.0 - 135.0	130	Yes
G	Head Breadth	140.0 - 148.0	145	Yes
H	Head Back from Backline	40.0 - 46.0	45	Yes
I	Head Depth	178.0 - 188.0	184	Yes
J	Head Circumference	541.0 - 551.0	545	Yes
K	Buttock to Knee Length	514.0 - 540.0	533	Yes
L	Popliteal Height	343.0 - 369.0	353	Yes
M	Knee Pivot to Floor Height	393.0 - 409.0	400	Yes
N	Buttock Popliteal Length	416.0 - 442.0	427	Yes
O	Chest Depth without Jacket	195.0 - 211.0	200	Yes
P	Foot Length (right)	216.0 - 232.0	220	Yes
P	Foot Length (left)	216.0 - 232.0	220	Yes
Q	Hip Breadth	313.0 - 323.0	316	Yes
R	Arm Length	249.0 - 259.0	254	Yes
S	Knee Joint to seat Back	478.0 - 493.0	486	Yes
V	Shoulder Width (only one arm installed)	341.0 - 357.0	349	Yes
W	Foot Width (right)	78.0 - 94.0	84	Yes
W	Foot Width (left)	78.0 - 94.0	84	Yes
Y	Chest Circumference with Jacket	851.0 - 881.0	870	Yes
Z	Waist Circumference	761.0 - 791.0	780	Yes

Revised 9/29/2005



Report Number: DQ0750\_S2H36

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## Transportation Research Center Inc.

Left Lateral Head Drop

SID IIs Serial No. DQ0570 Certification No. 36-2

Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	50 %	Yes
Peak Head Resultant Acceleration	115 - 137 g	134.8 g	Yes
Peak Head Longitudinal Acceleration	(-15) - 15 g	6.5 g	Yes
Is Head Resultant Acceleration Curve Unimodal within 15% of Peak?	< 15 %	1.28 %	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Head Skin S/N: DP8345**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 15:11:04 236



Report Number: DQ0750\_S2H36

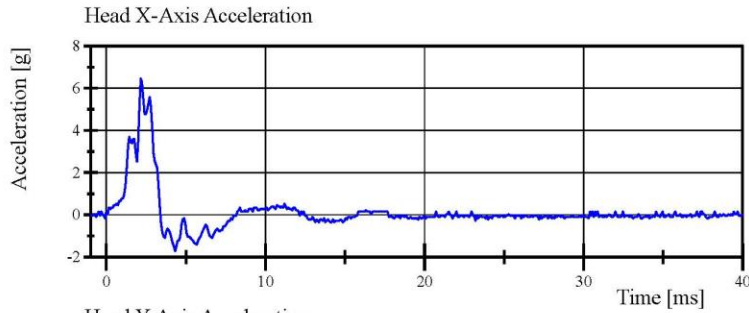
Page 9 of 31

# Transportation Research Center Inc.

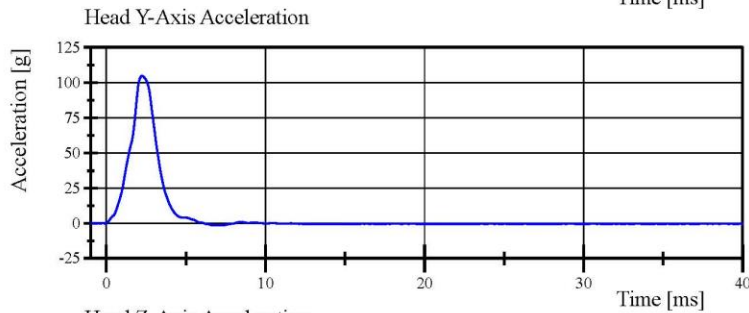
Left Lateral Head Drop

SID IIs Serial No. DQ0570 Certification No. 36-2

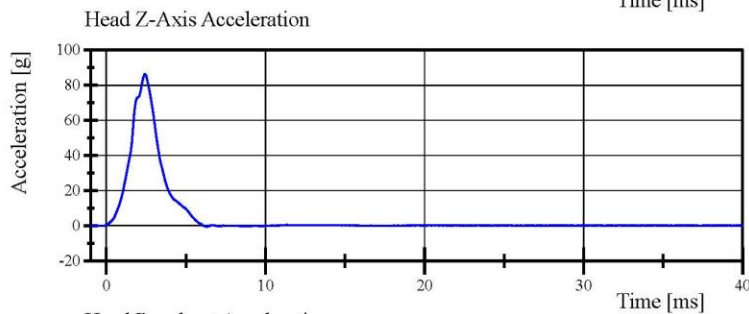
Test Date: 5/5/2025



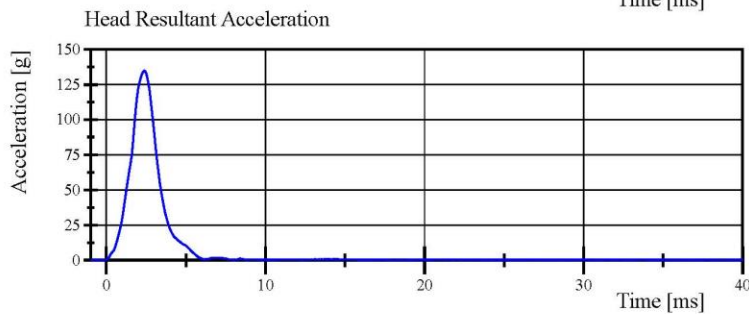
Filter Class: CFC\_1000  
Max: 6.5 g at 2.2 ms  
Min: -1.7 g at 4.3 ms



Filter Class: CFC\_1000  
Max: 104.8 g at 2.2 ms  
Min: -1.5 g at 7.0 ms



Filter Class: CFC\_1000  
Max: 86.3 g at 2.4 ms  
Min: -0.6 g at 6.3 ms



Filter Class: CFC\_1000  
Max: 134.8 g at 2.4 ms  
Min: 0.0 g at -0.6 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 15:11:26 236



## Transportation Research Center Inc.

Left Lateral Neck

SID IIs Serial No. DQ0570 Certification No. 36-1

Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	50 %	Yes
Pendulum Velocity	(-5.51) - (-5.63) m/s	-5.603 m/s	Yes
Pendulum Integrated Velocity			
Change at 10 ms	2.20 - 2.80 m/s	2.467 m/s	Yes
Change at 15 ms	3.30 - 4.10 m/s	3.625 m/s	Yes
Change at 20 ms	4.40 - 5.40 m/s	4.868 m/s	Yes
Change at 25 ms	5.40 - 6.10 m/s	5.797 m/s	Yes
Change at 25 to 100 ms	5.50 - 6.20 m/s	5.849 m/s	Yes
Maximum Headform Flexion			
Peak	(-71) - (-81) deg	-71.2 deg	Yes
Time of Peak	50 - 70 ms	59.2 ms	Yes
Total Neck Occipital Condyles Moment	36 - 44 N·m	40.5 N·m	Yes
Decay to 0 N·m	102 - 126 ms	108.8 ms	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

Neck S/N: 180-2001717

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 13:25:03 752

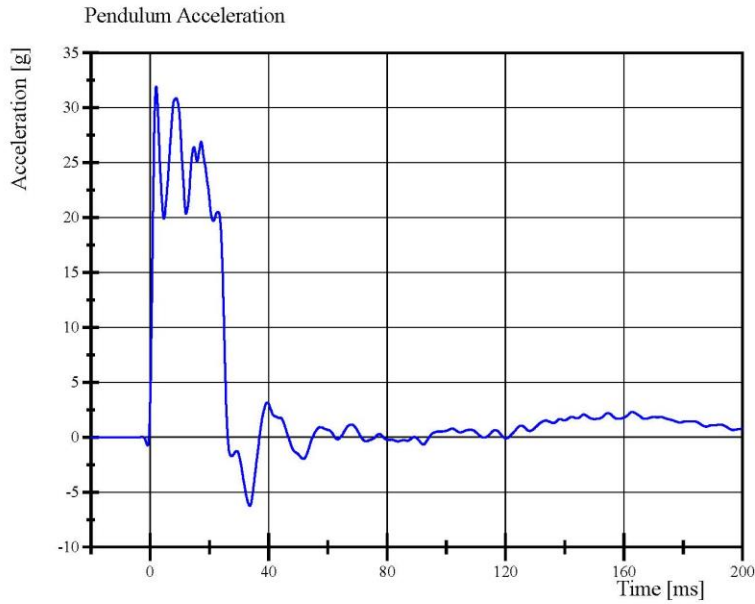


# Transportation Research Center Inc.

Left Lateral Neck

SID IIs Serial No. DQ0570 Certification No. 36-1

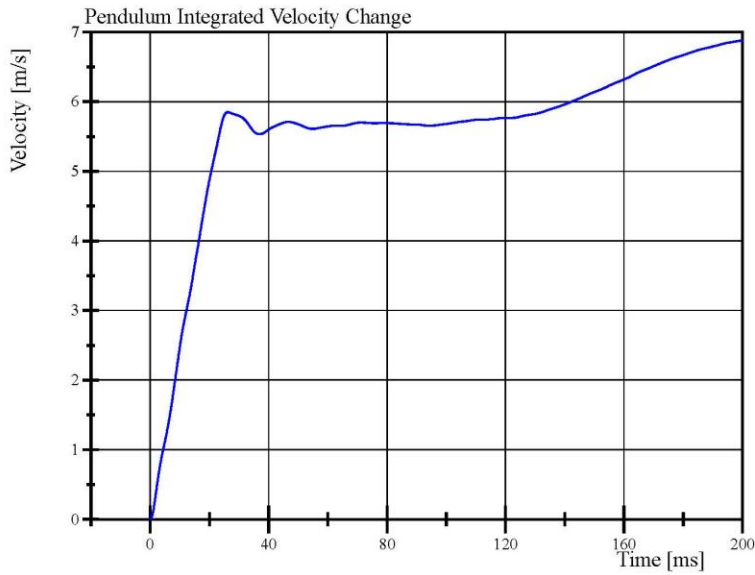
Test Date: 5/5/2025



Filter Class: CFC\_180

Max: 31.9 g at 2.1 ms

Min: -6.2 g at 33.7 ms



Filter Class: CFC\_180

Max: 6.9 m/s at 200.0 ms

Min: 0.0 m/s at 0.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 13:25:26 752

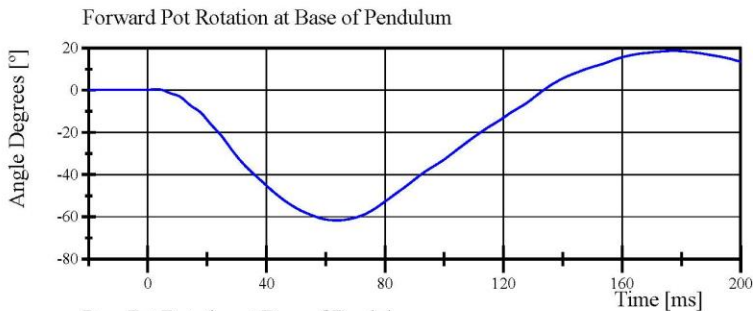


# Transportation Research Center Inc.

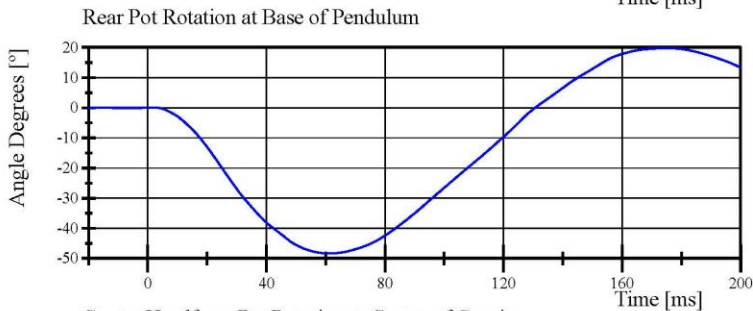
Left Lateral Neck

SID IIs Serial No. DQ0570 Certification No. 36-1

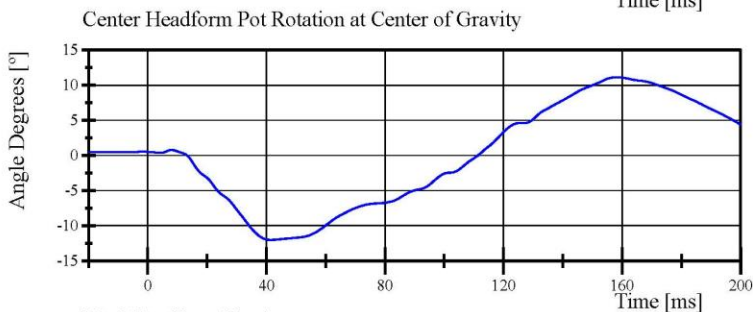
Test Date: 5/5/2025



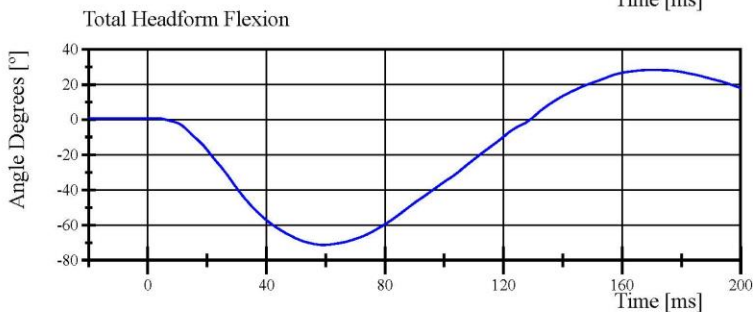
Filter Class: CFC\_60  
Max: 18.7 ° at 177.5 ms  
Min: -61.6 ° at 63.8 ms



Filter Class: CFC\_60  
Max: 19.8 ° at 175.4 ms  
Min: -48.3 ° at 61.0 ms



Filter Class: CFC\_60  
Max: 11.1 ° at 158.2 ms  
Min: -12.0 ° at 41.5 ms



Filter Class: CFC\_60  
Max: 28.2 ° at 170.2 ms  
Min: -71.2 ° at 59.2 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 13:25:27 752

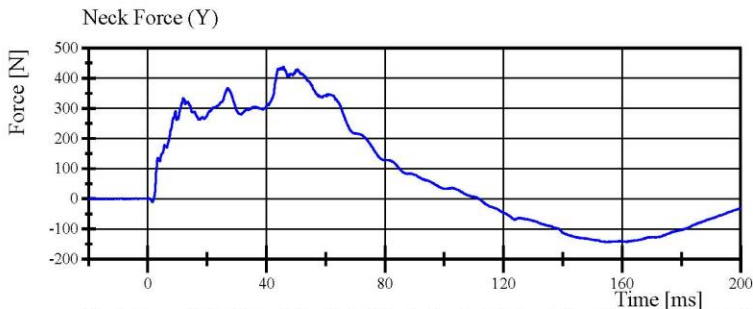


# Transportation Research Center Inc.

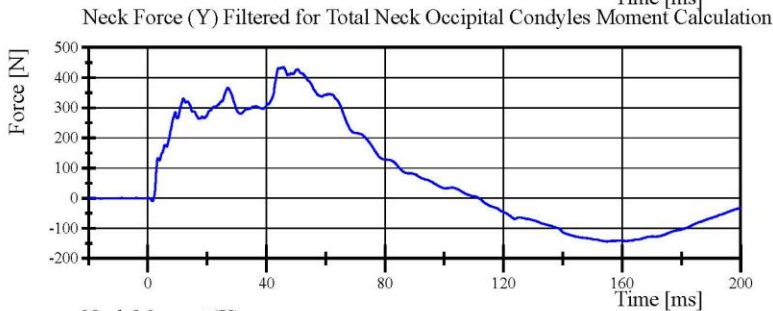
Left Lateral Neck

SID II Serial No. DQ0570 Certification No. 36-1

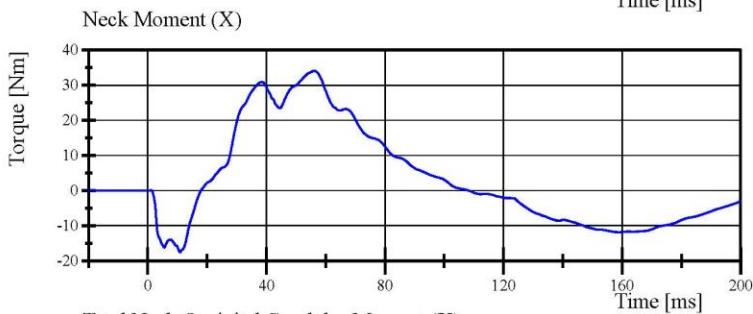
Test Date: 5/5/2025



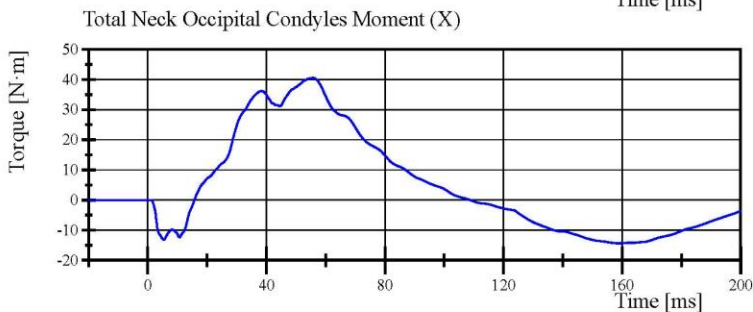
Filter Class: CFC\_1000  
Max: 437.8 N at 45.8 ms  
Min: -143.8 N at 154.9 ms



Filter Class: CFC\_600  
Max: 435.4 N at 45.8 ms  
Min: -143.7 N at 155.0 ms



Filter Class: CFC\_600  
Max: 34.1 Nm at 56.0 ms  
Min: -17.5 Nm at 10.9 ms



Filter Class: Without\_(Constar)  
Max: 40.5 N·m at 55.7 ms  
Min: -14.4 N·m at 158.7 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 13:25:27 752



## Transportation Research Center Inc.

Left Lateral Shoulder

SID IIs Serial No. DQ0570 Certification No. 36-1

Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Impactor Velocity	4.2 - 4.4 m/s	4.32 m/s	Yes
Impactor Acceleration	(-13) - (-18) g	-15.7 g	Yes
Shoulder Displacement	28 - 37 mm	29.4 mm	Yes
Upper Spine Lateral Acceleration	17 - 22 g	20.8 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Left Arm S/N: DP8451**

**Shoulder Rib S/N: 180-3355 DL9246**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:10:23 842.

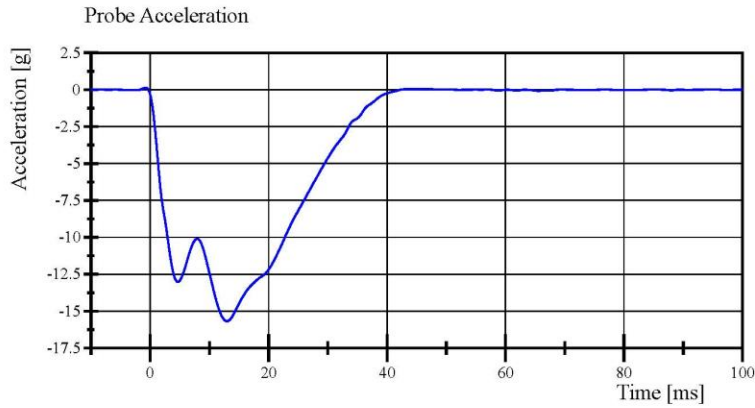


# Transportation Research Center Inc.

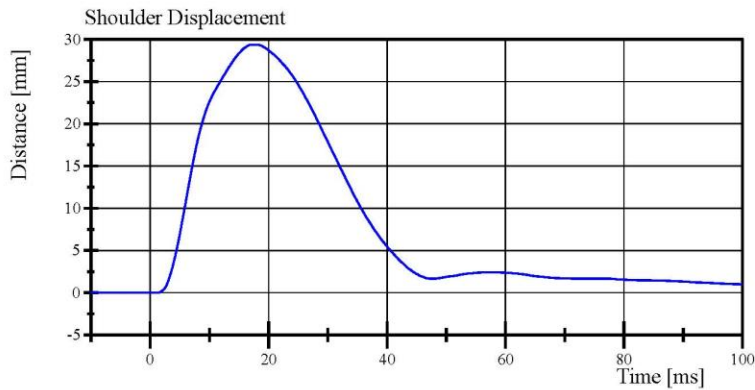
Left Lateral Shoulder

SID IIs Serial No. DQ0570 Certification No. 36-1

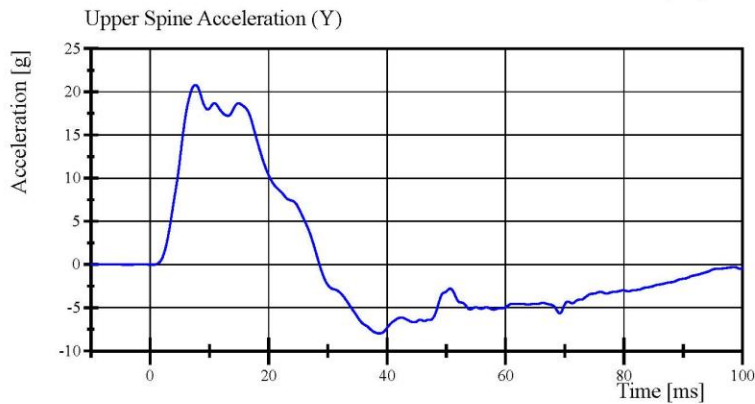
Test Date: 5/5/2025



Filter Class: CFC\_180  
Max: 0.1 g at -0.7 ms  
Min: -15.7 g at 13.0 ms



Filter Class: CFC\_600  
Max: 29.4 mm at 17.6 ms  
Min: -0.0 mm at -0.1 ms



Filter Class: CFC\_180  
Max: 20.8 g at 7.7 ms  
Min: -8.0 g at 38.7 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:10:51 842



## Transportation Research Center Inc.

Left Lateral Thorax with Arm  
SID IIs Serial No. DQ0570 Certification No. 36-1  
Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Impactor Velocity	6.60 - 6.80 m/s	6.729 m/s	Yes
Impactor Acceleration	(-30) - (-36) g	-34.1 g	Yes
Shoulder Displacement	31 - 40 mm	34.3 mm	Yes
Upper Thorax Rib Displacement	25 - 32 mm	27.4 mm	Yes
Center Thorax Rib Displacement	30 - 36 mm	30.5 mm	Yes
Lower Thorax Rib Displacement	32 - 38 mm	32.8 mm	Yes
Upper Spine Lateral Acceleration	34 - 43 g	39.1 g	Yes
Lower Spine Lateral Acceleration	29 - 37 g	36.0 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Left Arm S/N: DP8451**

**Shoulder Rib S/N: 180-3355 DL9246**

**Upper Thorax Rib S/N: 180-3362 DP6492**

**Middle Thorax Rib S/N: 180-3362 DP6493**

**Lower Thorax Rib S/N: 180-3362 DP7664**

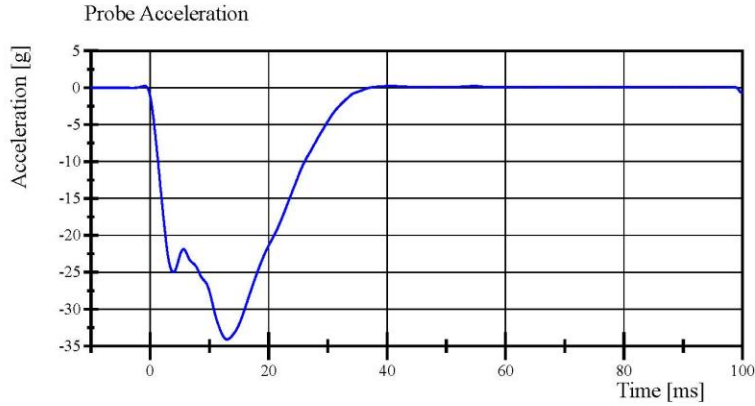
Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 15:00:53 627

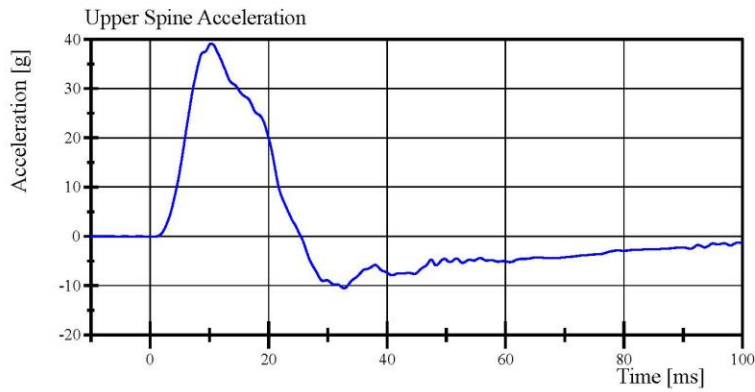


# Transportation Research Center Inc.

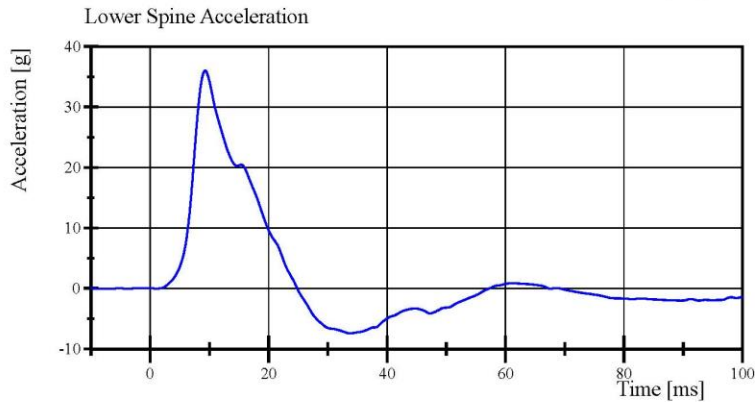
Left Lateral Thorax with Arm  
SID IIs Serial No. DQ0570 Certification No. 36-1  
Test Date: 5/5/2025



Filter Class: CFC\_180  
Max: 0.3 g at 40.6 ms  
Min: -34.1 g at 13.0 ms



Filter Class: CFC\_180  
Max: 39.1 g at 10.3 ms  
Min: -10.5 g at 32.8 ms



Filter Class: CFC\_180  
Max: 36.0 g at 9.3 ms  
Min: -7.4 g at 33.8 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 15:02:03 627

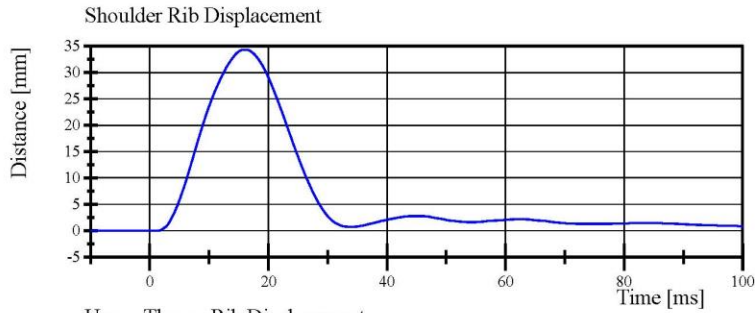


# Transportation Research Center Inc.

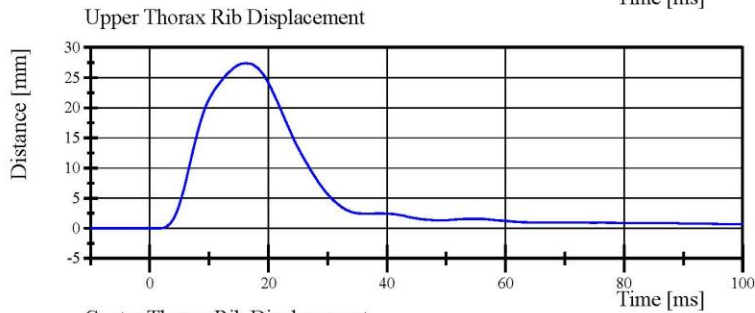
Left Lateral Thorax with Arm

SID IIs Serial No. DQ0570 Certification No. 36-1

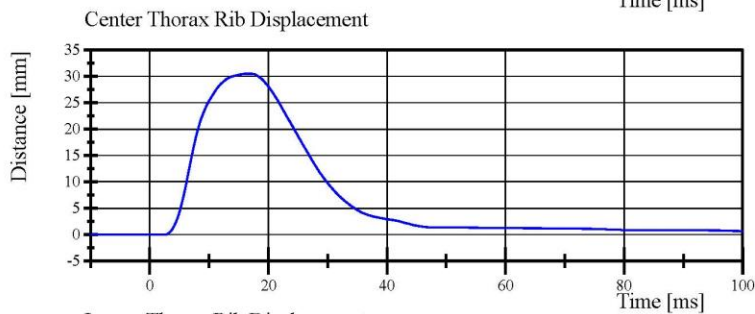
Test Date: 5/5/2025



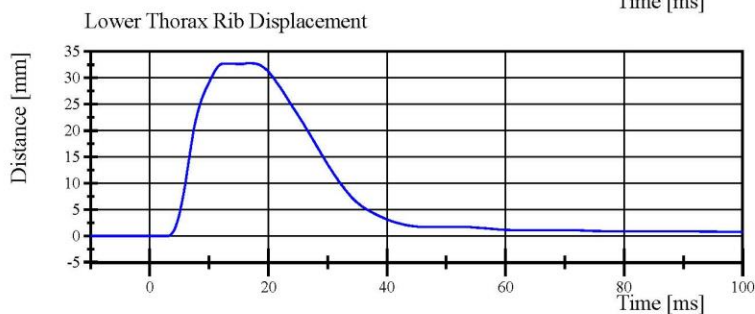
Filter Class: CFC\_600  
Max: 34.3 mm at 16.1 ms  
Min: -0.0 mm at 1.4 ms



Filter Class: CFC\_600  
Max: 27.4 mm at 16.2 ms  
Min: -0.0 mm at -3.2 ms



Filter Class: CFC\_600  
Max: 30.5 mm at 16.3 ms  
Min: -0.0 mm at 2.6 ms



Filter Class: CFC\_600  
Max: 32.8 mm at 16.6 ms  
Min: -0.0 mm at 3.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 15:02:04 627



## Transportation Research Center Inc.

Left Lateral Thorax without Arm  
SID IIs Serial No. DQ0570 Certification No. 36-1  
Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.5 °C	Yes
Relative Humidity	10 - 70 %	52 %	Yes
Impactor Velocity	4.20 - 4.40 m/s	4.240 m/s	Yes
Impactor Acceleration	(-14) - (-18) g	-15.9 g	Yes
Upper Thorax Rib Displacement	32 - 40 mm	35.8 mm	Yes
Center Thorax Rib Displacement	39 - 45 mm	41.0 mm	Yes
Lower Thorax Rib Displacement	35 - 43 mm	38.6 mm	Yes
Upper Spine Lateral Acceleration	13 - 17 g	14.4 g	Yes
Lower Spine Lateral Acceleration	7 - 11 g	9.7 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

Upper Thorax Rib S/N: 180-3362 DP6492

Middle Thorax Rib S/N: 180-3362 DP6493

Lower Thorax Rib S/N: 180-3362 DP7664

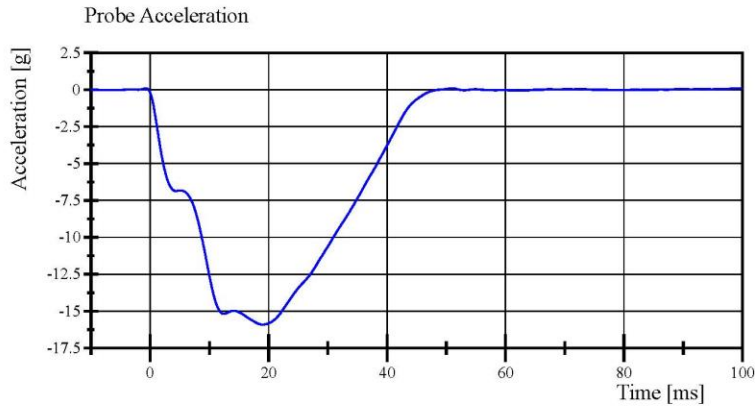
Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:32:23 858

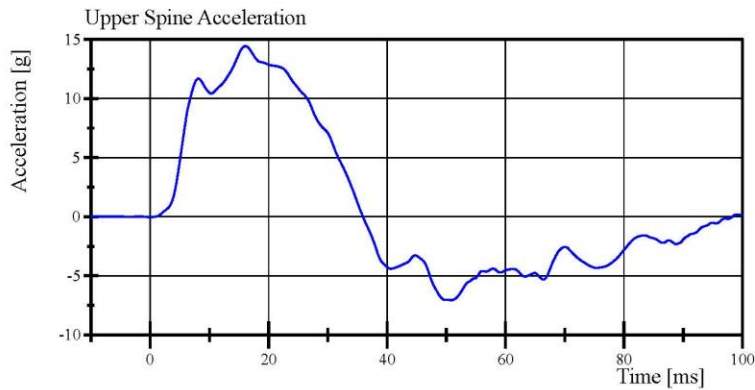


# Transportation Research Center Inc.

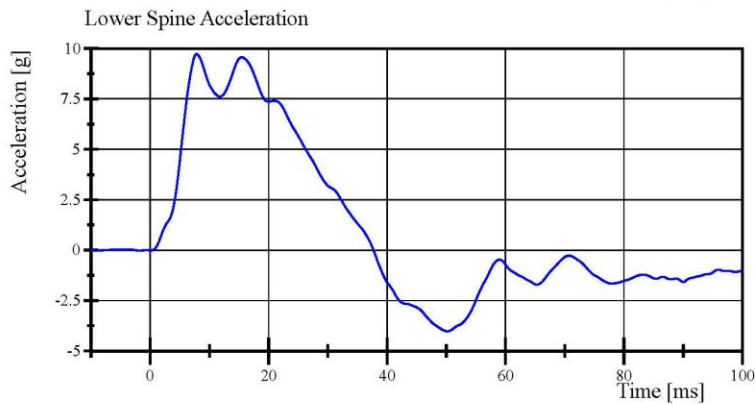
Left Lateral Thorax without Arm  
SID IIs Serial No. DQ0570 Certification No. 36-1  
Test Date: 5/5/2025



Filter Class: CFC\_180  
Max: 0.1 g at 100.0 ms  
Min: -15.9 g at 19.0 ms



Filter Class: CFC\_180  
Max: 14.4 g at 16.1 ms  
Min: -7.1 g at 50.8 ms



Filter Class: CFC\_180  
Max: 9.7 g at 7.8 ms  
Min: -4.0 g at 50.1 ms

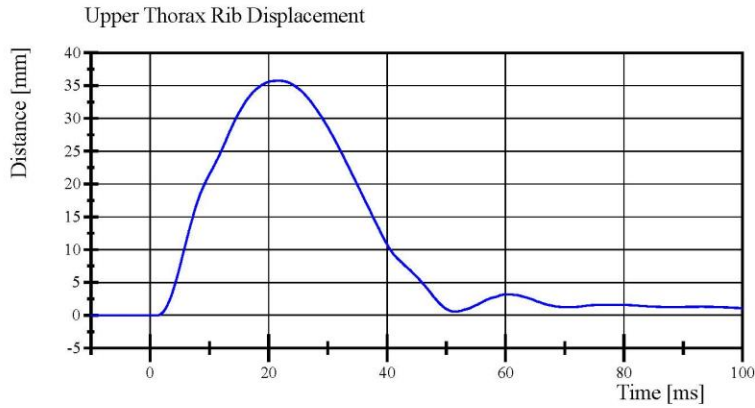
Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:32:51 858

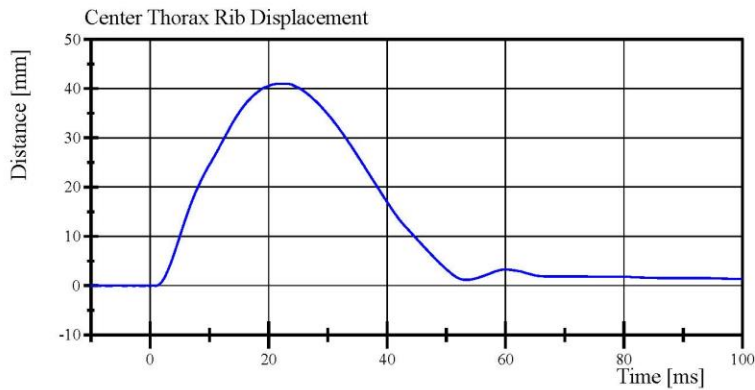


# Transportation Research Center Inc.

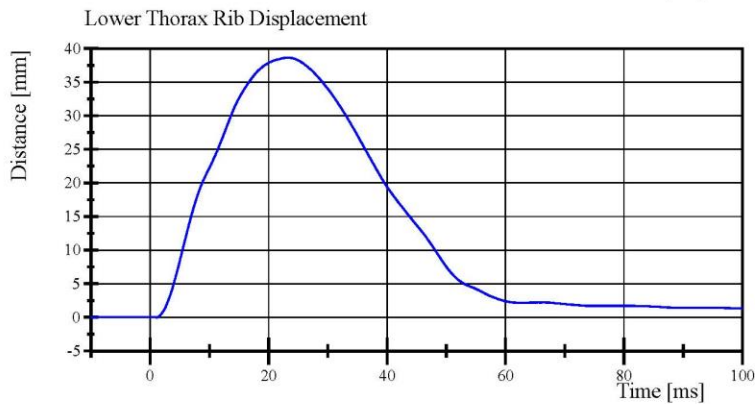
Left Lateral Thorax without Arm  
SID IIs Serial No. DQ0570 Certification No. 36-1  
Test Date: 5/5/2025



Filter Class: CFC\_600  
Max: 35.8 mm at 21.6 ms  
Min: -0.0 mm at 1.2 ms



Filter Class: CFC\_600  
Max: 41.0 mm at 22.2 ms  
Min: -0.0 mm at 1.0 ms



Filter Class: CFC\_600  
Max: 38.6 mm at 23.4 ms  
Min: -0.0 mm at 1.1 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:32:51 858



## Transportation Research Center Inc.

Left Lateral Abdomen

SID IIs Serial No. DQ0570 Certification No. 36-1

Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.5 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Impactor Velocity	4.2 - 4.4 m/s	4.38 m/s	Yes
Impactor Acceleration	(-12) - (-16) g	-15.0 g	Yes
Upper Abdominal Rib Displacement	36 - 47 mm	40.1 mm	Yes
Lower Abdominal Rib Displacement	33 - 44 mm	39.2 mm	Yes
Lower Spine Lateral Acceleration	9 - 14.0 g	11.43 g	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Upper Abdominal Rib S/N: 180-3368 DP5142**

**Lower Abdominal Rib S/N: 180-3368 DP5143**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:19:41 681

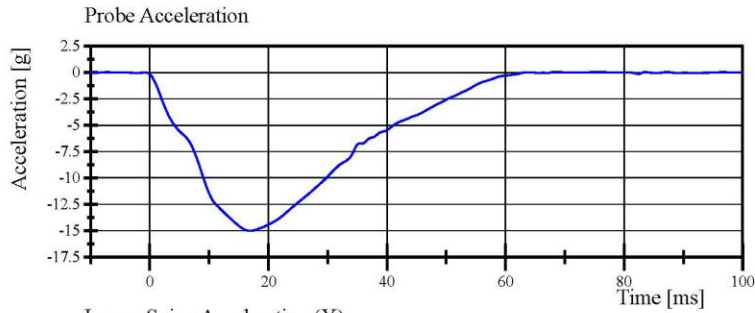


# Transportation Research Center Inc.

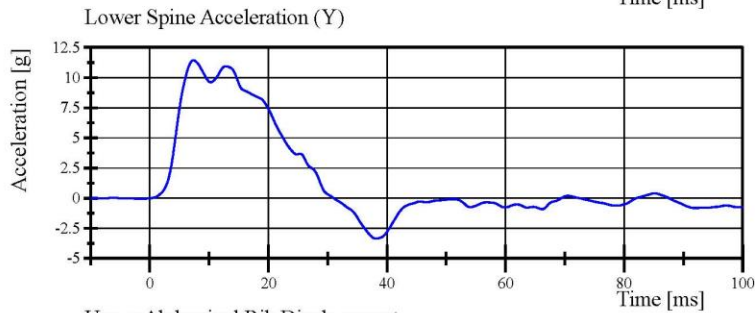
Left Lateral Abdomen

SID IIs Serial No. DQ0570 Certification No. 36-1

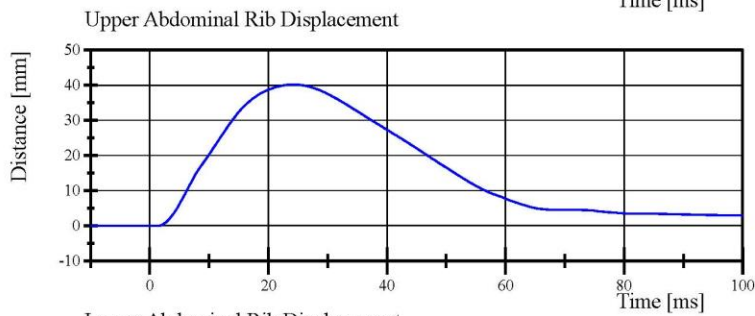
Test Date: 5/5/2025



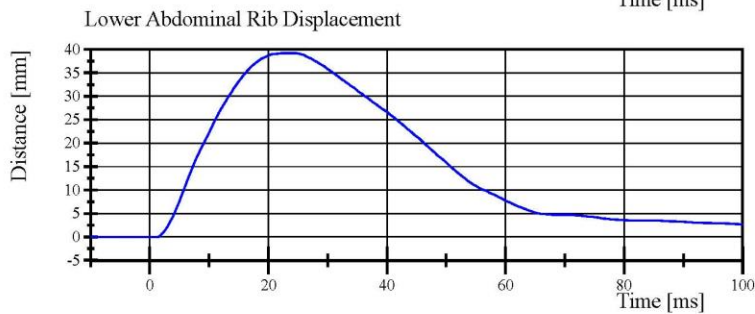
Filter Class: CFC\_180  
Max: 0.1 g at 68.5 ms  
Min: -15.0 g at 17.0 ms



Filter Class: CFC\_180  
Max: 11.4 g at 7.4 ms  
Min: -3.4 g at 38.2 ms



Filter Class: CFC\_600  
Max: 40.1 mm at 24.2 ms  
Min: -0.0 mm at 1.4 ms



Filter Class: CFC\_600  
Max: 39.2 mm at 23.1 ms  
Min: -0.0 mm at 1.2 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 14:20:03 681



## Transportation Research Center Inc.

Left Lateral Pelvis

SID IIs Serial No. DQ0570 Certification No. 36-1

Test Date: 5/6/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	48 %	Yes
Pendulum Velocity	6.6 - 6.8 m/s	6.62 m/s	Yes
Impactor Acceleration	(-38.0) - (-47.0) g	-43.66 g	Yes
Peak Pelvis Lateral Acceleration after 6ms	34 - 42 g	36.5 g	Yes
Acetabulum Force	3,600 - 4,300 N	3,725.2 N	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Pelvis Skin S/N: 1173**

**Pelvis Plug Info:**

**Manufacturer: SACO**

**S/N: 14467**

**Cal Date: 20201218**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.06.2025 08:29:22 484



Report Number: DQ0750\_S2H36

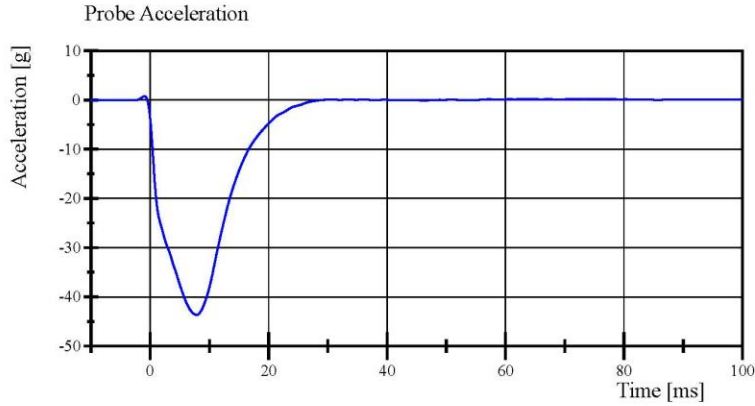
Page 27 of 31

# Transportation Research Center Inc.

Left Lateral Pelvis

SID IIs Serial No. DQ0570 Certification No. 36-1

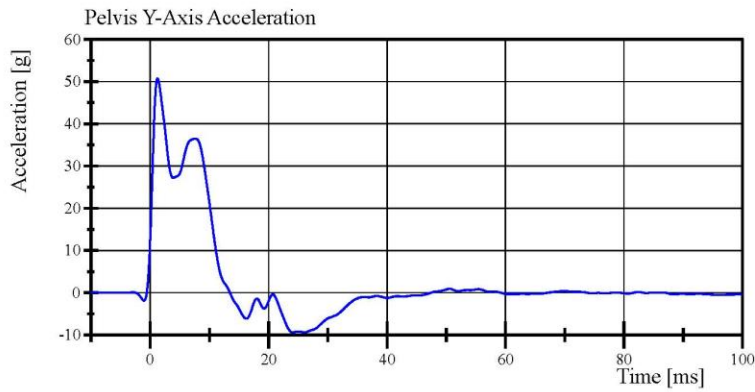
Test Date: 5/6/2025



Filter Class: CFC\_180

Max: 0.7 g at -1.0 ms

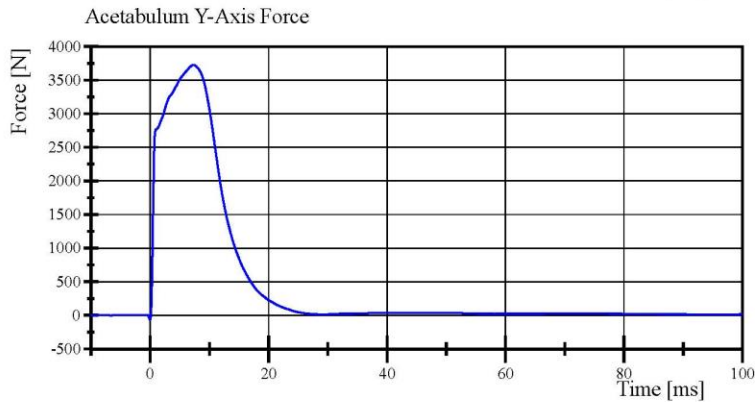
Min: -43.7 g at 7.8 ms



Filter Class: CFC\_180

Max: 50.7 g at 1.3 ms

Min: -9.4 g at 24.1 ms



Filter Class: CFC\_600

Max: 3,725.2 N at 7.4 ms

Min: -67.0 N at 0.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.06.2025 08:30:18 484



## Transportation Research Center Inc.

Left Lateral Iliac

SID IIs Serial No. DQ0570 Certification No. 36-1

Test Date: 5/5/2025

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Pendulum Velocity	4.2 - 4.4 m/s	4.22 m/s	Yes
Impactor Acceleration	(-36) - (-45) g	-42.4 g	Yes
Peak Pelvis Lateral Acceleration	28 - 39 g	37.4 g	Yes
Iliac Force	4,100 - 5,100 N	4,974.3 N	Yes

**Test meets specifications.**

**Condition: Used**

**Comments:**

**Pelvis Skin S/N: 1173**

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 13:54:39 706

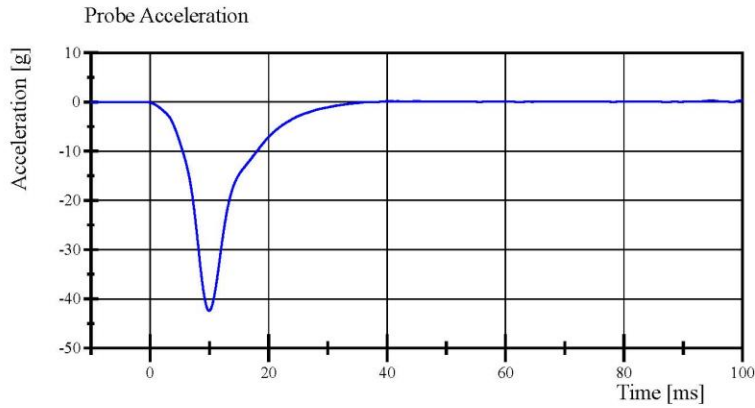


# Transportation Research Center Inc.

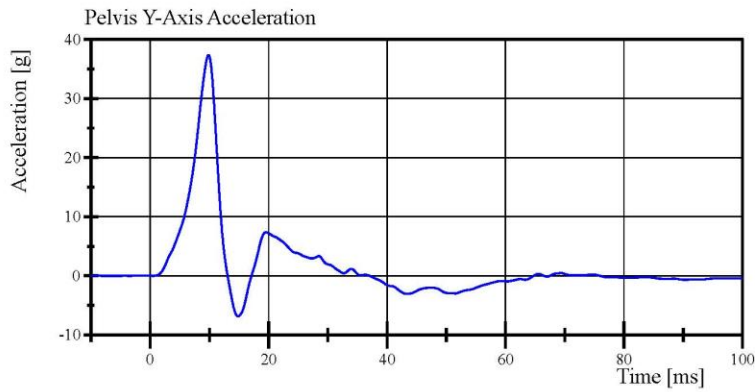
Left Lateral Iliac

SID IIs Serial No. DQ0570 Certification No. 36-1

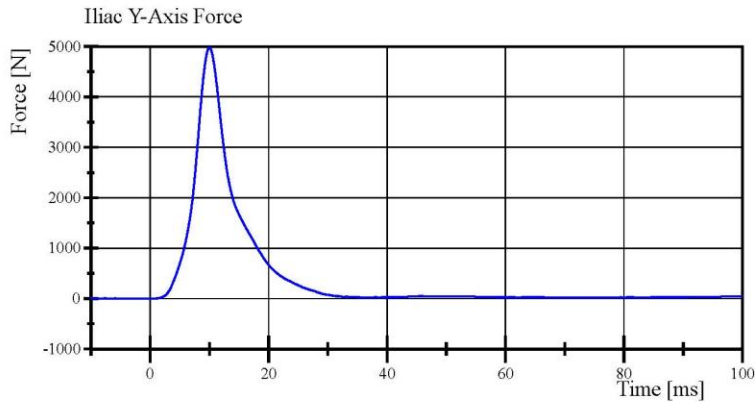
Test Date: 5/5/2025



Filter Class: CFC\_180  
Max: 0.4 g at 99.9 ms  
Min: -42.4 g at 9.9 ms



Filter Class: CFC\_180  
Max: 37.4 g at 9.8 ms  
Min: -6.8 g at 14.8 ms



Filter Class: CFC\_600  
Max: 4,974.3 N at 10.0 ms  
Min: -0.7 N at -4.0 ms

Specification Source: CFR49 Part 572 Subpart V  
with Polarity in accordance with J211

05.05.2025 13:55:19 706



**APPENDIX D**  
**TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA**

**TABLE 1 – Dummy Instrumentation (ES-2re)**

		ES-2re S/N F030			
		Serial Number	Manufacturer	Calibration Date	
Head Accelerometers	X	T14583	Endevco	25-Mar-2025	
	Y	T13068	Endevco	25-Mar-2025	
	Z	T14569	Endevco	25-Mar-2025	
Redundant Head Accelerometers	X	T17635	Endevco	25-Mar-2025	
	Y	T14567	Endevco	25-Mar-2025	
	Z	T14586	Endevco	25-Mar-2025	
Thoracic Rib Displacement Potentiometers	Upper	Y	111	Honeywell	24-Mar-2025
	Middle	Y	174	Honeywell	24-Mar-2025
	Lower	Y	0913	Honeywell	24-Mar-2025
Abdomen Load Cells	Front	Y	1441	Denton	24-Mar-2025
	Middle	Y	1436	Denton	24-Mar-2025
	Rear	Y	1437	Denton	24-Mar-2025
Lower Spine Accelerometers (T12)	X	P69076	Endevco	25-Mar-2025	
	Y	P91950	Endevco	25-Mar-2025	
	Z	T11387	Endevco	25-Mar-2025	
Acetabulum Load Cell	Y	N/A	N/A	25-Mar-2025	
Pubic Symphysis Load Cell	Y	465-FY	Denton	25-Mar-2025	

**TABLE 2 – Dummy Instrumentation (SID-IIs)**

			SID-IIs S/N DQ0570			
			Serial Number	Manufacturer	Calibration Date	
Head Accelerometers			X	T18335	Endevco	4-Mar-2025
			Y	T24497	Endevco	4-Mar-2025
			Z	T18333	Endevco	4-Mar-2025
Redundant Head Accelerometers			X	T25601	Endevco	4-Mar-2025
			Y	T25566	Endevco	4-Mar-2025
			Z	T20557	Endevco	4-Mar-2025
Displacement Potentiometers	Shoulder		N/A	N/A	N/A	N/A
	Thoracic Rib	Upper	Y	007	Servo	5-Mar-2025
		Middle	Y	037	Servo	5-Mar-2025
		Lower	Y	048	Servo	5-Mar-2025
	Abdominal Rib	Upper	Y	1295	Servo	5-Mar-2025
		Lower	Y	1136	Servo	5-Mar-2025
Lower Spine Accelerometers (T12)			X	T14559	Endevco	4-Mar-2025
			Y	T13682	Endevco	4-Mar-2025
			Z	T18476	Endevco	4-Mar-2025
Acetabulum Load Cell			Y	DK7483S-FY	FTSS	5-Mar-2025
Iliac Wing Load Cell			Y	287-FY	Denton	5-Mar-2025
Pelvis Plug (struck side)				14469	SACO	18-Dec-2020
Pelvis Plug (non-struck side)				14472	SACO	18-Dec-2020

**TABLE 3 – Vehicle Instrumentation**

Vehicle Instrumentation			Serial Number	Manufacturer	Calibration Date
1	Vehicle Center of Gravity	X	A400078	Measurement Specialties	21-Apr-2025
	Vehicle Center of Gravity	Y	A378327	Measurement Specialties	16-Apr-2025
	Vehicle Center of Gravity	Z	A298323	Measurement Specialties	16-Apr-2025
2	Right Sill at Front Seat	X	A386292	Measurement Specialties	21-Apr-2025
	Right Sill at Front Seat	Y	A386353	Measurement Specialties	21-Apr-2025
	Right Sill at Front Seat	Z	A385704	Measurement Specialties	21-Apr-2025
3	Right Sill at Rear Seat	X	A385745	Measurement Specialties	2-Apr-2025
	Right Sill at Rear Seat	Y	A378311	Measurement Specialties	16-Apr-2025
	Right Sill at Rear Seat	Z	A385744	Measurement Specialties	21-Apr-2025
4	Left Sill at Front Door	Y	A400085	Measurement Specialties	21-Apr-2025
5	Left Sill at Rear Door	Y	A385753	Measurement Specialties	21-Apr-2025
6	Left A-Post Lower	Y	A400071	Measurement Specialties	21-Apr-2025
7	Left A-Post Middle	Y	A400084	Measurement Specialties	21-Apr-2025
8	Left B-Post Lower	Y	A386295	Measurement Specialties	21-Apr-2025
9	B-Post Middle	Y	A400091	Measurement Specialties	2-Apr-2025
10	Front Seat Track	Y	A377491	Measurement Specialties	21-Apr-2025
11	Rear Seat Track or Structure	Y	A385708	Measurement Specialties	2-Apr-2025
12	Right Rear Occupant Compartment	Y	A385749	Measurement Specialties	21-Apr-2025
13	Engine Block	X	A300452	Measurement Specialties	16-Apr-2025
	Engine Block	Y	A254929	Measurement Specialties	2-Apr-2025
14	Rear Floorpan Above Axle	X	A385713	Measurement Specialties	21-Apr-2025
	Rear Floorpan Above Axle	Y	A379063	Measurement Specialties	3-Mar-2025
	Rear Floorpan Above Axle	Z	A377515	Measurement Specialties	21-Apr-2025

**TABLE 4 – MDB Instrumentation**

MDB Instrumentation		Serial Number	Manufacturer	Calibration Date
MDB Center of Gravity	X	A227171	Measurement Specialties	2-Apr-2025
MDB Center of Gravity	Y	A379029	Measurement Specialties	27-Feb-2025
MDB Center of Gravity	Z	A377524	Measurement Specialties	3-Mar-2025
Left Frame Rail at Rear Axle Centerline	X	A377538	Measurement Specialties	2-Apr-2025
Left Frame Rail at Rear Axle Centerline	Y	A378300	Measurement Specialties	2-Apr-2025