

REPORT NUMBER: SideNCAPPole-MGA-25-030

**NEW CAR ASSESSMENT PROGRAM (NCAP)
Side Impact Pole Test**

**VOLKSWAGEN AG
2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
NHTSA No.: O20255801**

**MGA RESEARCH CORPORATION
5000 Warren Road
Burlington, WI 53105**



Test Date: September 5, 2025

Final Report Date: May 26, 2026

FINAL REPORT

**U.S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Office of Crashworthiness Standards
Mail Code: NRM-100
1200 New Jersey Ave, SE
Washington, DC 20590**

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Approved by: 
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Approval Date: May 26, 2026

FINAL REPORT ACCEPTANCE BY OCWS:

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

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

TECHNICAL REPORT DOCUMENTATION PAGE

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16. Abstract A 32.20 km/h, 75° oblique impact Side NCAP Test was conducted on the subject 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV in accordance with the specifications of the Office of Crashworthiness Standards Side NCAP Pole Laboratory Test Procedure for the generation of consumer information on vehicle side pole crash protection. The test was conducted at the MGA Research Corporation facility in Burlington, Wisconsin on September 5, 2025. The impact velocity was 32.32 km/h, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 21.7°C. The test vehicle post-test maximum crush was 196 mm at level 3. The test vehicle's performance was as follows:																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 55%;">Measurement Description</th> <th rowspan="2" style="width: 10%;">Units</th> <th colspan="2" style="width: 35%;">Driver ATD (SID-IIs)</th> </tr> <tr> <th style="width: 15%;">Threshold</th> <th style="width: 20%;">Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₃₆)</td> <td></td> <td style="text-align: center;">1000</td> <td style="text-align: center;">328.768</td> </tr> <tr> <td>Resultant Lower Spine Acceleration</td> <td style="text-align: center;">g</td> <td style="text-align: center;">82</td> <td style="text-align: center;">48.960</td> </tr> <tr> <td>Total Pelvic Force (sum of acetabular and iliac forces)</td> <td style="text-align: center;">N</td> <td style="text-align: center;">5525</td> <td style="text-align: center;">3914.798</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td style="text-align: center;">mm</td> <td style="text-align: center;">38*</td> <td style="text-align: center;">23.914</td> </tr> <tr> <td>Maximum Abdomen Rib Deflection</td> <td style="text-align: center;">mm</td> <td style="text-align: center;">45*</td> <td style="text-align: center;">18.369</td> </tr> </tbody> </table>				Measurement Description	Units	Driver ATD (SID-IIs)		Threshold	Result	Head Injury Criteria (HIC ₃₆)		1000	328.768	Resultant Lower Spine Acceleration	g	82	48.960	Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	3914.798	Maximum Thoracic Rib Deflection	mm	38*	23.914	Maximum Abdomen Rib Deflection	mm	45*	18.369
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*Proposed IARV																													
The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite door(s) did not open during the side impact event.																													
17. Key Words New Car Assessment Program (NCAP) Side Impact Pole Part 572V 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
PURPOSE AND SUMMARY OF TEST**

PURPOSE

This side pole impact test is 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. 693JJ920D000017. The purpose of this test is to generate comparative side impact performance in a 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV. The side impact test was conducted in accordance with the Office of Crashworthiness Standard’s Side NCAP Pole Laboratory Test Procedure, dated March 2020.

SUMMARY

A rigid pole side impact test was conducted on a 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV. The subject vehicle was towed into the rigid pole at an angle of 75° and a velocity of 32.32 km/h. The test was conducted by MGA Research Corporation in Burlington, Wisconsin on September 5, 2025. Pre-test and post-test photographs of the test vehicle and side impact dummy (SID-IIs) are included in this report.

One Part 572V (SID-IIs) dummy was placed in the driver designated seating position according to instructions specified in the OCWS Side NCAP Pole Laboratory Test Procedure dated March 2020. Camera locations and other pertinent camera information are included in this report.

The Part 572V (SID-IIs) dummy was instrumented accordingly:

- Primary and Redundant Head CG Triaxial Accelerometers
- Head Triaxial Angular Rate Sensors
- Thorax Upper, Middle, and Lower Rib Displacement Potentiometers
- Abdomen Upper Rib and Lower Rib Displacement Potentiometers
- Lower Spine (T12) Triaxial Accelerometers
- Iliac Load Cell
- Acetabulum Load Cell

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 contains the test equipment and instrumentation calibration data.

Injury readings for the SID-IIs dummy were recorded as follows:

Measurement Description	Units	Driver ATD (SID-IIs)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	328.768
Resultant Lower Spine Acceleration	g	82	48.960
Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	3914.798
Maximum Thoracic Rib Deflection	mm	38*	23.914
Maximum Abdomen Rib Deflection	mm	45*	18.369

*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		
Knee Airbag	No			
Side Curtain Airbag	Yes	Yes	Yes	Yes
Side Torso/Pelvis Airbag	Yes	Yes	No	
Side Airbag (Other)				
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes		Yes	
Other:				

The test data can be found on the NHTSA website at www.nhtsa.gov

GENERAL COMMENTS

None.

MGA does not endorse or certify products. The manufacturer's name appears solely for identification purposes.

SECTION 2
OCCUPANT AND VEHICLE INFORMATION / DATA SHEETS

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA No.	O20255801	Traction Control System (TCS)	Yes
Model Year	2025	Auto-Leveling System	No
Make	Volkswagen	Automatic Door Locks (ADL)	Yes
Model	ID.Buzz 1st Edition	Power Window Auto-Reverse	Yes
Body Style	5-Door SUV	Other Optional Feature	No
VIN	WVG5WVEB7SH015297	Driver Front Airbag	Yes
Body Color	Cabana Blue & Candy White	Driver Curtain Airbag	Yes
Odometer Reading (km/mi)	35 km / 22 mi	Driver Head/Torso Airbag	No
Engine Displacement (L)		Driver Torso Airbag	No
Type/No. Cylinders	Electric	Driver Torso/Pelvis Airbag	Yes
Engine Placement	Lateral	Driver Pelvis Airbag	No
Transmission Type	N/A	Driver Knee Airbag	No
Transmission Speeds		Rear Pass. Curtain Airbag	Yes
Overdrive	No	Rear Pass. Head/Torso Airbag	No
Final Drive	RWD	Rear Pass. Torso Airbag	No
Roof Rack	Yes	Rear Pass. Torso/Pelvis Airbag	No
Sunroof/T-Top	Yes	Rear Pass. Pelvis Airbag	No
Running Boards	No	Driver Seat Belt Pretensioner	Yes
Tilt Steering Wheel	Yes	Rear Pass. Seat Belt Pretensioner	Yes
Power Seats	Yes	Driver Load Limiter	Yes
Anti-Lock Brakes (ABS)	Yes	Rear Pass. Load Limiter	Yes
		Other Safety Restraint	N/A

Does owner's manual provide instruction to turn off automatic door locks?	No
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DATA FROM CERTIFICATION LABEL

Manufactured By	VOLKSWAGEN AG	GVWR (kg)	3360
Date of Manufacture	10/24	GAWR Front (kg)	1550
Vehicle Type	MPV	GAWR Rear (kg)	1860

VEHICLE SEATING AND WEIGHT CAPACITY DATA

Measured Parameter	Front	Rear	Third	Total	
Designated Seating Capacity (DSC)	2	3	2	7	
Capacity Weight (VCW) (kg)				505	(A)
DSC x 68 kg				476	(B)
Rated Cargo and Luggage Weight (RCLW) (kg)				29	(A-B)

VEHICLE SEAT TYPE

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

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

VEHICLE TIRE INFORMATION



Measured Parameter	Front	Rear
Max. Tire Pressure (kPa)	275	275
Cold Pressure (kPa)	270	300
Recommended Tire Size	HL 235/50R20 XL	HL 265/45R20 XL
Tire Size on Vehicle	235/50R20	265/45R20
Tire Manufacturer	Continental	Continental
Tire Model	ProContact TX10	ProContact TX10
Treadwear	540	540
Traction	A	A
Temperature Grade	B	B
Tire Plies Sidewall	2 Polyester	2 Polyester
Tire Plies Body	1 Polyester, 2 Steel, 1 Polyamide	1 Polyester, 2 Steel, 1 Polyamide
Load Index/Speed Symbol	107T	111T
Tire Material	Rubber	Rubber
DOT Safety Code Left	1HW 0333NF 3924	1HW 0333NW 3724
DOT Safety Code Right	1HW 0333NF 3924	1HW 0333NW 3824

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

TEST PRESSURES

	Units	LF	RF	LR	RR
As Delivered	kPa	305	290	270	275
Tire Placard	kPa	270	270	300	300
Owner's Manual	kPa	270	270	305	305
As Tested	kPa	270	270	305	305

TEST AXLE VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	641.0	719.5		665.0	730.0		658.0	755.5	
Right	kg	676.0	695.5		704.0	710.0		683.0	716.5	
Ratio	%	48.2%	51.8%		48.7%	51.3%		47.7%	52.3%	
Totals	kg	1317.0	1415.0	2732.0	1369.0	1440.0	2809.0	1341.0	1472.0	2813.0

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total Delivered Weight (UVW)	kg	2732.0	(A)
Actual Weight of 1 P572 ATD (SID-IIs) Used	kg	52	(B)
Rated Cargo/Luggage Weight (RCLW)	kg	29	(C)
Calculated Test Vehicle Target Weight (TVTW)	kg	2813.0	(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**

TEST VEHICLE ATTITUDES AND CG

	Units	As Delivered	As Tested	Fully Loaded	Meets Requirement
Driver Door Sill Angle (front-to-back)*	deg	-0.1	-0.1	-0.2	Yes
Front Pass. Door Sill Angle (front-to-back)*	deg	-0.4	-0.4	-0.4	Yes
Front Bumper Angle (left-to-right)**	deg	-0.4	-0.4	-0.4	Yes
Rear Bumper Angle (left-to-right)**	deg	0.0	0.0	0.0	Yes
Vehicle CG (Aft of Front Axle)	mm	1677	1659	1694	
Vehicle CG (Left (+) / Right (-) from Longitudinal Centerline)	mm	-3	-6	4	

* ND=Nose Down (-), NU=Nose Up (+) ** LD=Left Down (-), LU=Left Up (+)

*** The "As Tested" vehicle attitude measurements must be equal to or between the "As Delivered" and "Fully Loaded" vehicle attitude measurements.

WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW

Component Description	Units	Weight
Weight of Ballast Added	kg	34
Components Removed: 3 rd row seats	kg	29

Test height adjustable suspension setting, if applicable:	Not Applicable
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DATA SHEET NO. 1 (CONTINUED)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
Test Date: 9/5/2025

TEST SURFACE MARKINGS

	Distance from 75° Impact Location Line (mm)
Fore 25 mm Target	985
Aft 25 mm Target	975

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

SEAT POSITIONING

The driver's seat, front center seat (if applicable), and right front passenger's seat should be set to the forward-most, mid-height, 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	22.1	11.8	17.0
Front Passenger Seat	21.0	10.9	16.0
Front Center Seat			
Struck Side Rear Seat	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Fixed

SEAT HEIGHT AND ANGLE

Seat	As-Tested SCRL Angle (Mid) (°)	As-Tested SCRP Height (mm)	SCRP Height Position	SCRP Height (mm)		
				Rear-Most	Mid	Forward-Most
Driver Seat	17.0	31	Max	62	62	62
			Mid	31	31	31
			Min	0	0	0
Front Passenger Seat	16.0	32	Max	64	64	64
			Mid	32	32	32
			Min	0	0	0
Front Center Seat			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

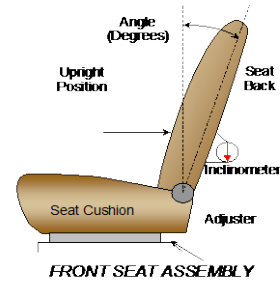
NHTSA No.: O20255801
 Test Date: 9/5/2025

SEAT FORE/AFT POSITIONS

Seat	Total Fore/Aft Travel		Test Position from Forward-Most Position	
	mm	Detents (1 st as 1)	mm	Detent (1 st as 0)
Driver Seat	255		0	
Front Passenger Seat	252		0	
Front Center Seat				
Struck Side Rear Seat	200	21	200	20
Non-Struck Side Rear Seat	200	21	200	20
Rear Center Seat	200	21	200	20

SEAT BACK ANGLE ADJUSTMENT

The driver's seat back is positioned such that the dummy's head is level. 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 passenger seat back is positioned in accordance with the information provided by the manufacturer on S1 – Vehicle Setup Information for the 5th percentile female dummy in a Side NCAP MDB test. The rear center and non-struck side rear passenger's seat back is set to match the struck-side rear seat back.



Seat	Total Seat Back Angle Range		Test Position from Vertical	
	Degrees	Detents (1 st as 1)	Degrees	Detent (1 st as 0)
Driver Seat	61.2		13.5	
Front Passenger Seat	61.8		13.5	
Front Center Seat				
Struck Side Rear Seat	13.7	8	15.5	0
Non-Struck Side Rear Seat	13.7	8	15.5	0
Rear Center Seat	13.7	8	15.5	0

All seat back angles measured on seatback.

SEAT BELT ANCHORAGE ADJUSTMENT

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on S1 – Vehicle Setup Information.

	Total # of Positions	Placed in Position #
Driver Seat	4	0 (Uppermost as 0)

HEAD RESTRAINT ADJUSTMENT

Head restraints are adjusted to the lowest and most full forward in-use position.

	Total # of Positions	Placed in Position #
Driver Seat	5	0 (Lowest as 0) / Fixed Fore-Aft

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

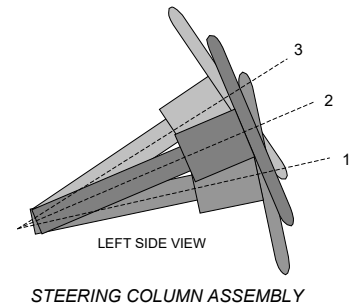
Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

STEERING COLUMN ADJUSTMENT

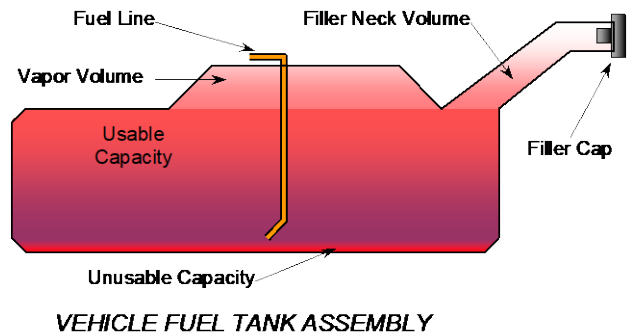
Steering wheel and column adjustments are made so that the steering wheel geometric locus is described when it moves through its full range of motion.

	Wheel Angle (°)	Fore/Aft Position (mm)
Lowermost, Position 1	63.4	
Geometric Center, Position 2	60.8	
Uppermost, Position 3	58.1	
Telescoping Steering Wheel Travel		46
Test Position	60.8	23



FUEL PUMP

Electric vehicle.



FUEL TANK CAPACITY DATA

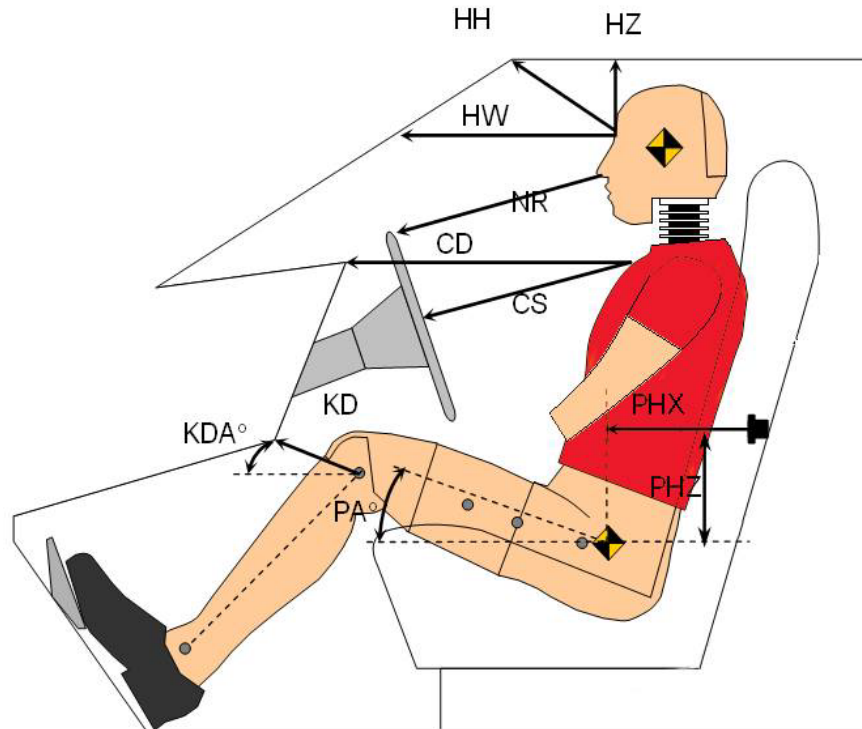
	Liters
Usable Capacity of Standard Tank (see S1 – Vehicle Setup Information)	
Usable Capacity of Optional Tank (see S1 – Vehicle Setup Information)	
Usable Capacity of Standard Tank as Specified in Owner’s Manual	
Usable Capacity of Optional Tank as Specified in Owner’s Manual	
93% of Usable Capacity	
Actual Amount of Solvent Used	
1/3 of Usable Capacity	

Is the actual amount of solvent used in the test equal to 93% \pm 1% of the Usable Capacity stated in S1 – Vehicle Setup Information? **YES**

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025



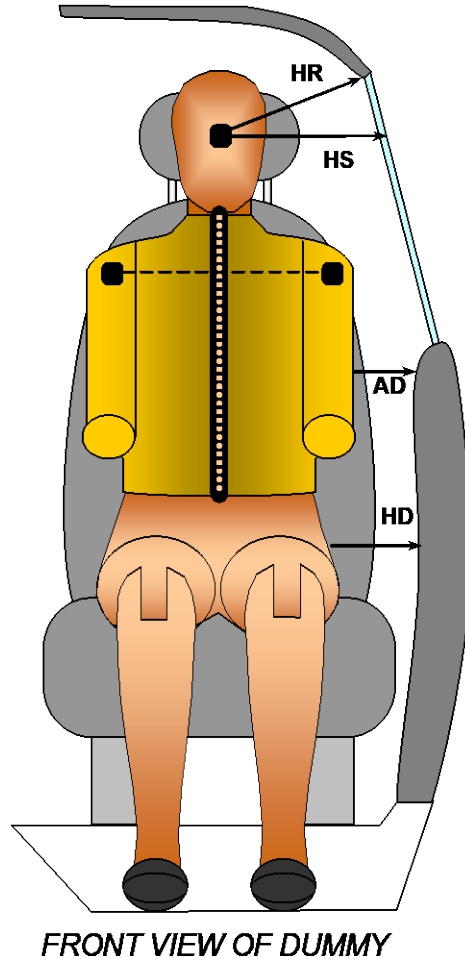
LEFT SIDE VIEW

Code	Measurement Description	Driver	
		Length (mm)	Angle (°)
HH	Head to Header	636	
HW	Head to Windshield	914	
HZ	Head to Roof Liner	343	
NR	Nose to Rim/Seat Back	267	
CD	Chest to Dashboard/Seat Back	385	
CS	Chest to Steering Wheel	207	
KDL / KDAL	Left Knee to Dash/Seat Back	87	35.1
KDR / KDAL	Right Knee to Dash/Seat Back	101	52.8
PAX	Pelvic Tilt Angle X		22.1
PAY	Pelvic Tilt Angle Y		-0.7
PHX	Hip Point to Striker (X-Axis)	348	
PHZ	Hip Point to Striker (Z-Axis)	47	

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

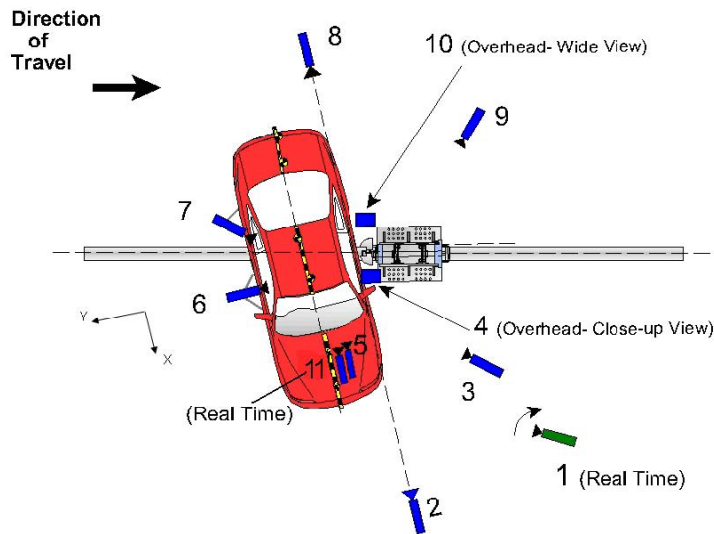


Code	Measurement Description	Driver
		Length (mm)
HR	Head to Side Header	329
HS	Head to Side Window	425
AD	Arm to Door	141
HD	Hip Point to Door	262

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025



Reference: (from Point of Impact for X and Y; from Ground for Z):
 +X = Forward of Impact, + Y = Right of Impact, +Z = Down

No.	Camera View	Coordinates* (mm)			Lens (mm)	Frame Rate (fps)
		X	Y	Z		
1	Real-Time Pan View					30
2	Front Ground Level	5805	-20	-1650	24	1000
3	Impact Side 45° Forward	4515	-1920	-1680	12	1000
4	Overhead Closeup	0	0	-6700	85	1000
5	Onboard – Driver Front				16	1000
6	Onboard – Driver Side				8	1000
7	Onboard – Driver Rear				8	1000
8	Rear Ground Level	-6595	-15	-1655	24	1000
9	Impact Side 45° Rearward	-3005	-3675	-1670	12	1000
10	Overhead Wide View	70	500	-6700	12	1000
11	Real-Time Dummy Front View					30

*All measurements accurate to ±6 mm

Note: Vehicle was positioned at a 75° angle to the rigid pole.

Explain why camera(s) did not operate as intended: None

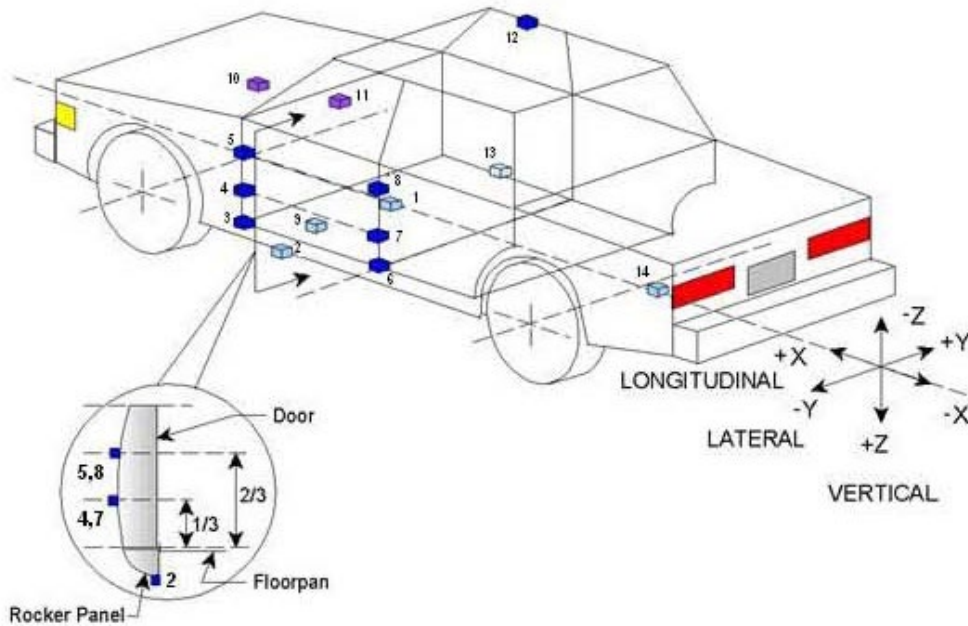
INSTRUMENTATION

	Number of Channels
Driver Dummy	19
Vehicle Structure	16
Pole Load Cells	8
Total	43

DATA SHEET NO. 6
TEST VEHICLE ACCELEROMETER LOCATIONS

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
Test Date: 9/5/2025



TEST VEHICLE ACCELEROMETER LOCATIONS

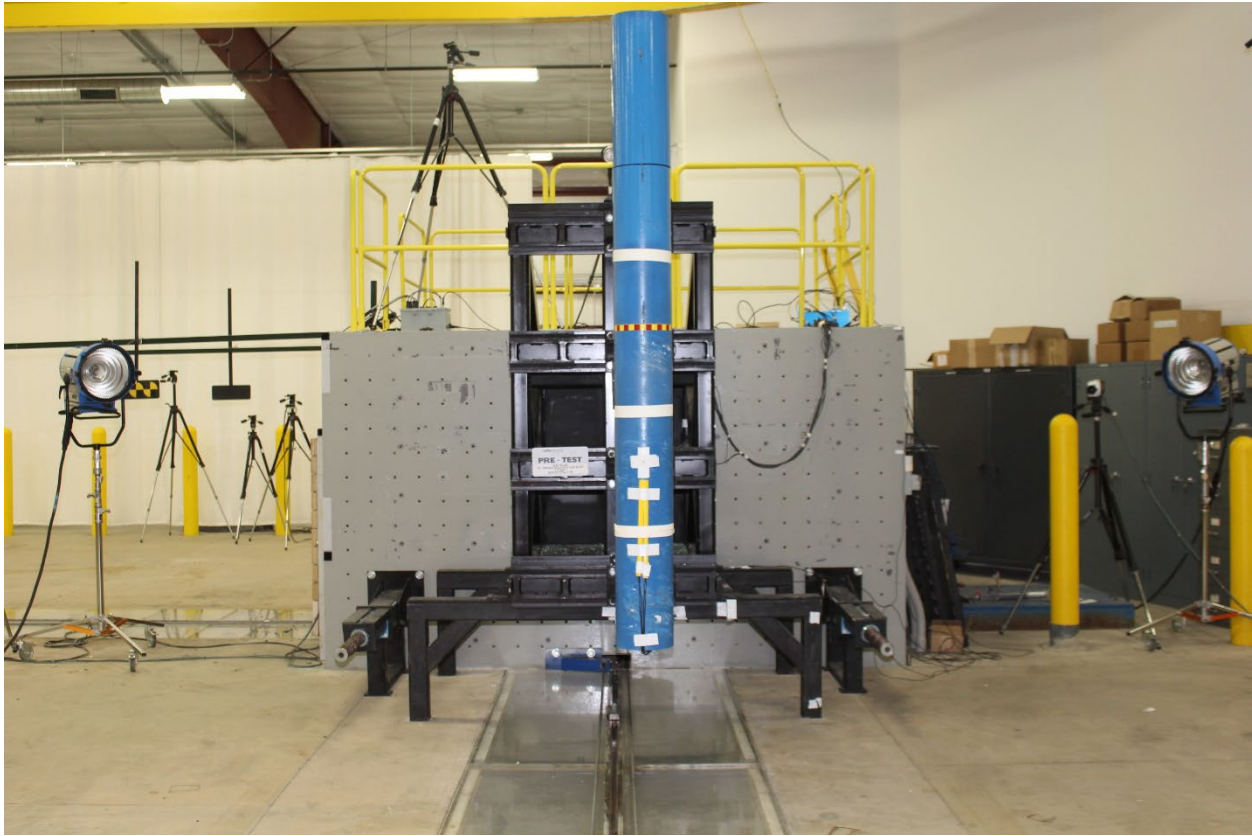
No.	ID	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	2464	2	-162
2	Left Floor Sill	3067	-624	-163
3	A Pillar Sill	3501	-623	-160
4	A Pillar Low	3727	-874	-794
5	A Pillar Mid	3701	-869	-1009
6	B Pillar Sill	2669	-621	-165
7	B Pillar Low			
8	B Pillar Mid			
9	Driver Seat Track	2787	-408	-488
10	Engine Top	4666	-35	-854
11	Firewall	4702	-6	-969
12	Right Roof	2741	593	-1865
13	Right Sill	3078	608	-171
14	Rear Floorpan	709	-5	-608

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

DATA SHEET NO. 7
RIGID POLE LOAD CELL DATA

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025



254 mm Diameter Rigid Pole

Load Cell Locations	
ID	Height from Test Surface (mm)
1	182
2	470
3	698
4	986
5	1212
6	1641
7	1854
8	2053

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Driver Dummy (SID-IIs)
Face	Curtain Airbag
Top of Head	Curtain Airbag, Headrest
Left Side of Head	Curtain Airbag
Back of Head	Curtain Airbag, Headrest
Left Shoulder	Side Torso/Pelvis Airbag, Seatback
Upper Torso	Seatback
Lower Torso	Side Torso/Pelvis Airbag, Seatback
Left Hip	Side Torso/Pelvis Airbag, Seat Cushion, Door Panel
Left Knee	Door Panel

POST-TEST DOOR PERFORMANCE

Description	Struck Side		Non-Struck Side		Rear Hatch
	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)					

POST-TEST SEAT PERFORMANCE

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

POST-TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	No Separation
Sill Separation	No Separation
Windshield Damage	None
Side Window Damage	LF window cracked
Other Notable Effects	None

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

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

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

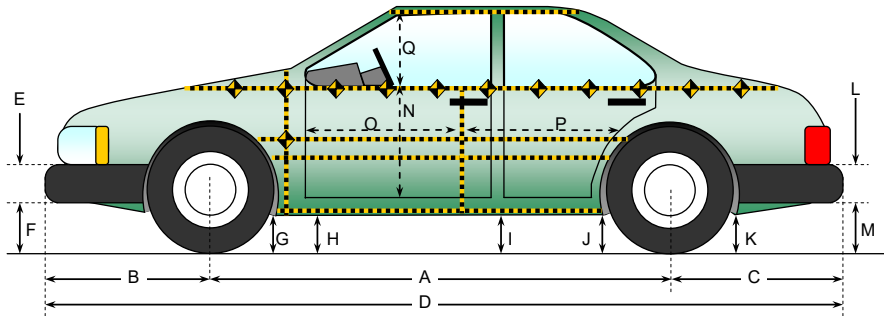
SPEED, ANGLE AT IMPACT, AND IMPACT POINT LOCATION DATA

Measured Parameter	Units	Tolerance	Value
Vertical Impact Reference Line (Aft of Front Axle) (Intended Impact Point)	mm		958
Actual Impact Point (Aft of Front Axle)	mm		960
Horizontal Offset (+forward / -rearward)	mm	+/- 38 of Intended Impact Point	-2
Angle Between Vehicle's Longitudinal Centerline and Line of Forward Motion	degrees	75 +/- 3	75.0
Trap No. 1 Velocity (Primary)	km/h	31.4 to 33.0	32.32
Trap No. 2 Velocity (Redundant)	km/h	31.4 to 33.0	32.25

DATA SHEET NO. 9
TEST VEHICLE PROFILE MEASUREMENTS

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
Test Date: 9/5/2025



All measurements in (mm) with tolerance of ± 3 mm

LEFT SIDE VIEW

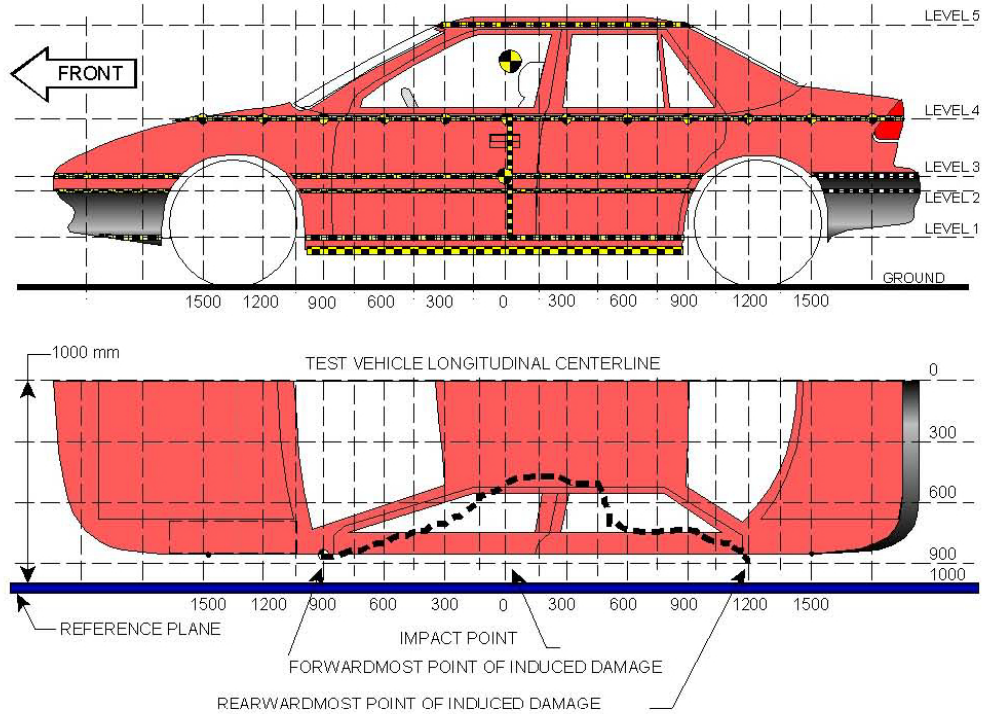
VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION

Code	Measurement Description	Pre-Test	Post-Test	Change
A	Wheelbase	3237	3236	-1
B	Front Axle to FSOV	806	814	8
C	Rear Axle to RSOV	895	891	-4
D	Total Vehicle Length at Centerline	4939	4940	1
E	Front Bumper Thickness	142	142	0
F	Front Bumper Bottom to Ground	465	485	20
G	Sill Height at Front Wheel Well	195	197	2
H	Sill Height at Front Door Leading Edge	201	196	-5
I	Sill Height at B-Pillar	203	179	-24
J1	Sill Height at Rear Wheel Well	214	220	6
J2	Pinch Weld Height at Rear Wheel Well	210	215	5
K	Sill Height Aft of Rear Wheel Well	194	214	20
L	Rear Bumper Thickness	126	124	-2
M	Rear Bumper Bottom to Ground	402	412	10
N	Sill Height to Bottom of Front Window Sill	976	975	-1
O	Front Door Leading Edge to Impact CL	562	541	-21
P	Rear Door Trailing Edge to Impact CL	1769	1745	-24
Q	Front Window Opening	517	517	0
R	Right Side Length	4349	4353	4
S	Left Side Length	4355	4344	-11
T	Vehicle Width at B-Pillars	1953	1922	-31
U	Front Wheel Track Width	1629		
V	Rear Wheel Track Width	1646		

**DATA SHEET NO. 10
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS**

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025



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

MAXIMUM EXTERIOR CRUSH MEASUREMENTS

Level	Measurement Description	Height Above Ground	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	332	136	0
2	Mid Door	788	185	0
3	Occupant H-Point	917	196	0
4	Window Sill	1219	173	0
5	Window Top	1818	64	0

DATA SHEET NO. 10 (CONTINUED)
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

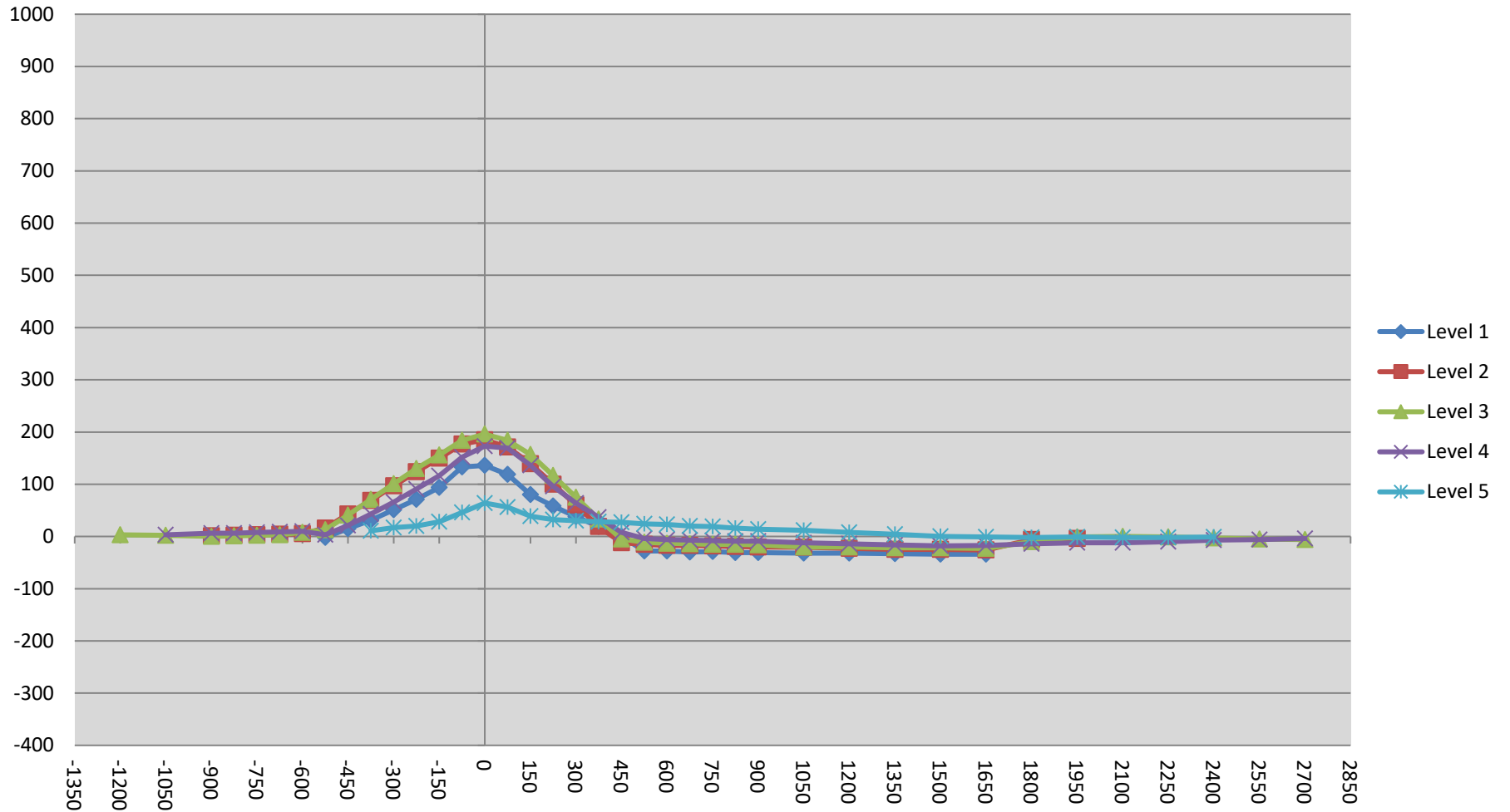
Pre-test measurements are taken when the vehicle is in the “As Tested” weight condition. Vehicle measurements forward of the vertical impact reference line are negative. The crush profile grid is established prior to the test based on an estimated impact point.

	Pre-Test					Post-Test					Exterior Crush				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-2700															
-2550															
-2400															
-2250															
-2100															
-1950															
-1800															
-1650															
-1500															
-1350															
-1200			947					944					3		
-1050			962	874				960	871				2	3	
-900		977	965	895			976	965	889			1	0	6	
-825		976	965	902			974	964	896			2	1	6	
-750		977	965	907			974	963	899			3	2	8	
-675		973	965	910			969	962	901			4	3	9	
-600		970	966	912			965	958	902			5	8	10	
-525	959	968	966	915		961	952	953	912		-2	16	13	3	
-450	960	968	968	918		945	925	927	897		15	43	41	21	
-375	961	968	970	921	687	930	899	899	878	676	31	69	71	43	11
-300	962	970	971	922	711	911	873	870	856	694	51	97	101	66	17
-225	964	971	972	925	718	893	847	842	834	698	71	124	130	91	20
-150	965	972	973	926	725	871	822	817	810	697	94	150	156	116	28
-75	966	973	974	928	729	833	796	790	776	683	133	177	184	152	46
0	966	973	975	928	732	830	788	779	755	668	136	185	196	173	64
75	967	974	975	929	736	848	803	791	760	680	119	171	184	169	56
150	968	974	976	930	738	888	835	819	794	699	80	139	157	136	39
225	968	974	976	931	740	910	874	859	835	708	58	100	117	96	32
300	969	974	976	931	741	931	914	901	867	711	38	60	75	64	30
375	969	974	976	932	743	950	955	943	895	715	19	19	33	37	28
450	969	974	976	932	744	969	986	981	924	717	0	-12	-5	8	27
525	968	974	977	933	744	996	989	988	937	720	-28	-15	-11	-4	24
600	968	973	976	933	745	996	990	989	939	722	-28	-17	-13	-6	23
675	967	973	975	933	745	997	990	989	940	725	-30	-17	-14	-7	20
750	967	972	974	933	746	996	990	989	941	727	-29	-18	-15	-8	19
825	966	972	974	933	746	997	991	989	942	730	-31	-19	-15	-9	16
900	965	971	973	933	745	996	991	989	942	731	-31	-20	-16	-9	14
1050	963	969	969	932	747	995	990	989	944	735	-32	-21	-20	-12	12
1200	961	966	968	929	746	993	989	988	943	738	-32	-23	-20	-14	8
1350	958	962	965	927	744	991	987	987	943	740	-33	-25	-22	-16	4
1500	955	958	962	923	742	989	983	984	941	742	-34	-25	-22	-18	0
1650	951	957	958	920	739	985	983	981	937	740	-34	-26	-23	-17	-1
1800		960	955	914	735		966	965	928	737		-6	-10	-14	-2
1950		969	955	909	727		973	956	921	728		-4	-1	-12	-1
2100			958	903	720			958	915	722			0	-12	-2
2250			958	897	707			959	907	709			-1	-10	-2
2400			949	889	686			952	896	687			-3	-7	-1
2550			933	878				938	884				-5	-6	
2700			912	863				918	867				-6	-4	

DATA SHEET NO. 10 (CONTINUED)
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
Test Program: NCAP Side Pole Impact Test

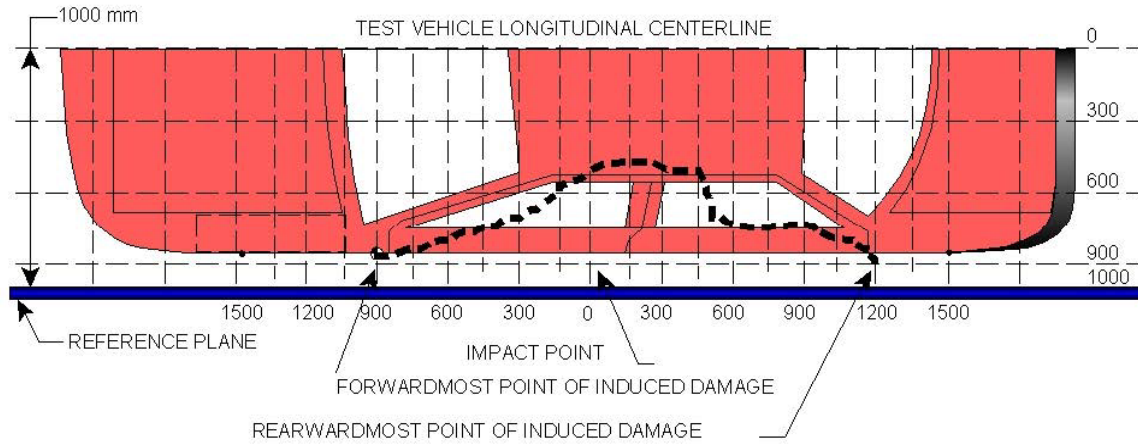
NHTSA No.: O20255801
Test Date: 9/5/2025



DATA SHEET NO. 10 (CONTINUED)
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025



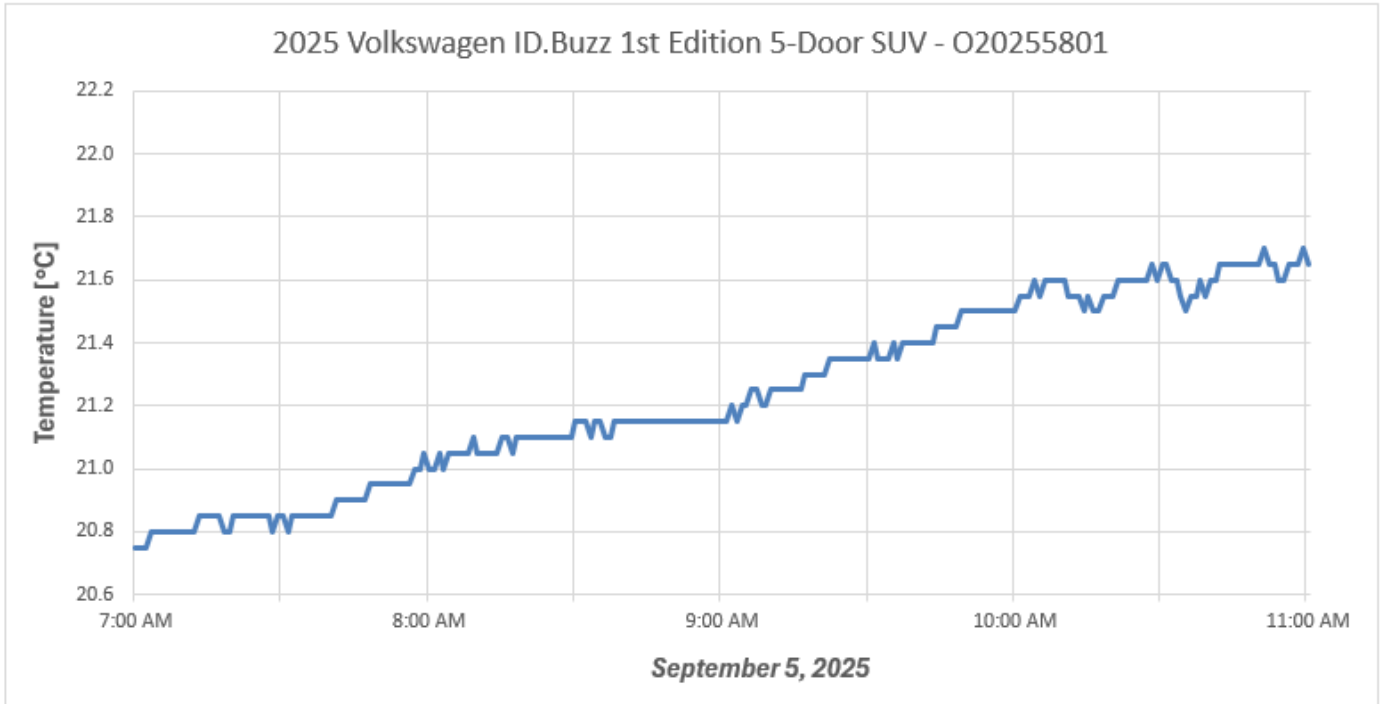
VEHICLE DAMAGE PROFILE DISTANCES

DPD	Distance from Impact Point (mm)	Level	Pre-Test (mm)	Post-Test (mm)	Max. Static Crush (mm)
1	225	3	141	24	117
2	129	3	192	24	168
3	26	3	219	25	194
4	-54	3	218	26	192
5	-137	3	187	27	160
6	-225	3	158	28	130

DATA SHEET NO. 12
DUMMY/VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION DATA

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025



Serial #	Description	Maximum	Average	Minimum	Units
W2425691	VSC South Hall - Temp (3018)	21.70	21.23	20.75	°C

**DATA SHEET NO. 305-1
GENERAL TEST AND VEHICLE PARAMETER DATA
FOR INDICANT FMVSS NO. 305 TESTING**

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
Test Date: 9/5/2025

ELECTRIC VEHICLE PROPULSION SYSTEM

	Units	Observations and Conclusions
Type of Electric Vehicle		Electric
Propulsion Battery Type		Lithium-Ion
Nominal Voltage	V	380
Physical Location of Automatic Propulsion Battery Disconnect		Inside the high-voltage battery housing
Auxiliary Battery Type		12V Lead

PROPULSION BATTERY SYSTEM DATA

	Units	Observations and Conclusions
Electrolyte Fluid Type		Liquid
Electrolyte Fluid Specific Gravity	g/L	1164-1224
Electrolyte Fluid Kinematic Viscosity	cSt	2.6-3.0
Electrolyte Fluid Color		Colorless
Propulsion Battery Coolant Type, Color, Specific Gravity (if applicable)		Liquid cooling (50% water / 50% glycol)
Location of Battery Modules		Inside Passenger Compartment
		X Outside Passenger Compartment
		The high-voltage battery is located below the occupant compartment.

PROPULSION BATTERY STATE OF CHARGE

<i>For all battery types:</i>	
Voltage range corresponding to useable energy of the battery:	
Minimum State of Charge	
Maximum State of Charge	442.0 V
95% of Maximum State of Charge	419.9 V
Test Voltage - No less than 95% of maximum State of Charge	428.0 V
<i>For batteries that are rechargeable ONLY by an energy source on the vehicle:</i>	
Voltage range corresponding to useable energy of the battery:	
Minimum State of Charge	
Maximum State of Charge	
Test Voltage – Maximum practicable State of Charge within Normal Operating Range	

**DATA SHEET NO. 305-2
PRE-IMPACT DATA
FOR INDICANT FMVSS NO. 305 TESTING**

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

VEHICLE CHASSIS GROUND POINT(S) LOCATION(S)

Details of Vehicle Chassis Ground Point(s) & Location(s)	Center console mounting bolt
--	------------------------------

PROPULSION BATTERY SYSTEM

Details of Electric Energy Storage/Conversion System Test Points	Connected at + and – leads between HV battery and PTC (electric heater)
Additional Comments	None

DATA SHEET NO. 305-3
PRE-IMPACT ELECTRICAL ISOLATION MEASUREMENTS AND CALCULATIONS
FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

VOLTMETER INFORMATION

	Units	Observations and Conclusions
Make		Fluke
Model		177
Serial Number		61660495
Internal Impedance Value	MΩ	> 10 MΩ < 100 pF
Resolution	V	0.001
Last Calibration Date		2/21/2025

PROPULSION BATTERY VOLTAGE

Measurement shall be made with Energy Storage/Conversion System connected to the vehicle propulsion system, and the vehicle in the “ready-to-drive” (propulsion system energized) position.

NOTE: If voltage measurement is not at the voltage or within the normal operating voltage range specified by the manufacturer, the battery must be charged.

Vb	V	432.4
----	---	-------

ELECTRIC ISOLATION MEASUREMENTS
PROPULSION BATTERY TO VEHICLE CHASSIS

Vehicle chassis point(s) determined and supplied to contractor by COR.

V1	V	347.7
V2	V	188.7

PROPULSION BATTERY TO VEHICLE CHASSIS ACROSS RESISTOR

The known resistance R_o (in ohms) should be approximately 500 times the normal operating voltage of the vehicle (in volts) per SAE J1766.

R_o	Ω	226,100
-------	---	---------

V1' Pre-Impact	V	20.5
V2' Pre-Impact	V	29.2

DATA SHEET NO. 305-3 (CONTINUED)
PRE-IMPACT ELECTRICAL ISOLATION MEASUREMENTS AND CALCULATIONS
FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

ELECTRICAL ISOLATION CALCULATIONS

NOTE: If measured voltage is zero and results in a division by zero, record "Zero Volts".
 This "zero voltage" condition is considered as being compliant.

$R_{i1} = R_o (1 + V_2/V_1) [(V_1 - V_1')/V_1']$		
Ri1 Pre-Impact	Ω	5,567,293
$R_{i2} = R_o (1 + V_1/V_2) [(V_2 - V_2')/V_2']$		
Ri2 Pre-Impact	Ω	3,510,713
Ri = The lesser of Ri1 and Ri2		
Ri Pre-Impact	Ω	3,510,713
$R_i / V_b = \text{Electrical Isolation Value} / \text{Nominal Battery Voltage}$		
Ri / Vb Pre-Impact	Ω/V	8,119

NOTE: The minimum Electrical Isolation Value is 500 Ω/V.

	Yes	No (Fail)
Is the measured Electrical Isolation Value ≥ 500 Ω/V?	X	
Additional Comments	None	

**DATA SHEET NO. 305-4
POST-IMPACT DATA
FOR INDICANT FMVSS NO. 305 TESTING**

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

VOLTMETER INFORMATION

	Units	Observations and Conclusions
Make		Fluke
Model		177
Serial Number		61660495
Internal Impedance Value	MΩ	> 10 MΩ < 100 pF
Resolution	V	0.001
Last Calibration Date		2/21/2025

ELECTRICAL ISOLATION MEASUREMENTS

Vb Post-Impact	V	0.41
----------------	---	------

V1 Post-Impact	V	0.78	Impact Time	2	Minutes	48	Seconds
V2 Post-Impact	V	0.37		2	Minutes	52	Seconds
V1' Post-Impact	V	0.12		3	Minutes	2	Seconds
V2' Post-Impact	V	0.06		2	Minutes	56	Seconds

DATA SHEET NO. 305-4 (CONTINUED)
POST-IMPACT DATA
FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

ELECTRICAL ISOLATION CALCULATIONS

NOTE: If measured voltage is zero and results in a division by zero, record "Zero Volts".
 This "zero voltage" condition is considered as being compliant.

$R_{i1} = R_o (1 + V_2/V_1) [(V_1 - V_1')/V_1']$							
Ri1 Post-Impact	Ω	1,833,439	Impact Time	2	Minutes	0	Seconds
$R_{i2} = R_o (1 + V_1/V_2) [(V_2 - V_2')/V_2']$							
Ri2 Post-Impact	Ω	3,630,840	Impact Time	2	Minutes	0	Seconds
Ri = The lesser of Ri1 and Ri2							
Ri Post-Impact	Ω	1,833,439	Impact Time	2	Minutes	0	Seconds
$R_i / V_b = \text{Electrical Isolation Value} / \text{Nominal Battery Voltage}$							
Ri / Vb Post-Impact	Ω/V	4,471,803	Impact Time	2	Minutes	0	Seconds

NOTE: The minimum Electrical Isolation Value is 500 Ω/V.

	Yes	No (Fail)
Is the measured Electrical Isolation Value ≥ 500 Ω/V?	X	
Additional Comments	None	

DATA SHEET NO. 305-4 (CONTINUED)
POST-IMPACT DATA
FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

PROPULSION BATTERY SYSTEM COMPONENTS

Describe any Propulsion Battery Module movement within the passenger compartment [Supply photographs as appropriate]:
Not Applicable

	Yes (Fail)	No
Has the Propulsion Battery Module moved within the passenger compartment?		X

Describe intrusion of an outside Propulsion Battery Component into the passenger compartment [Supply photographs as appropriate]:
No Intrusion

	Yes (Fail)	No
Has an outside Propulsion Battery Component intruded into the passenger compartment?		X

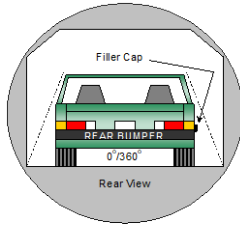
	Yes (Fail)	No
Is the Propulsion Battery Electrolyte Spillage visible in the passenger compartment?		X

**DATA SHEET NO. 305-5
STATIC ROLLOVER TEST DATA
FOR INDICANT FMVSS NO. 305 TESTING**

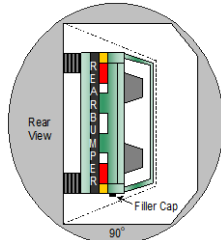
Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

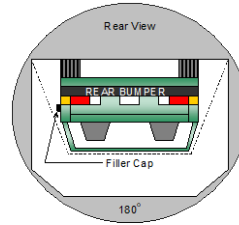
PROPULSION BATTERY SYSTEM COMPONENTS



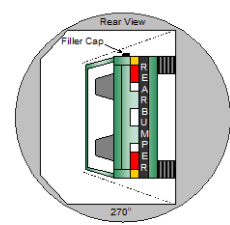
0°/360°



90°



180°



270°

PROPULSION BATTERY ELECTROLYTE COLLECTION TIME PERIOD

Test Phase	Rotation Time (spec. 1-3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
	1	min	49	sec	5	min	6	min	49	sec	7	min
0° - 90°	1	min	49	sec	5	min	6	min	49	sec	7	min
90° - 180°	1	min	50	sec	5	min	6	min	50	sec	7	min
180° - 270°	1	min	51	sec	5	min	6	min	51	sec	7	min
270° - 360°	1	min	50	sec	5	min	6	min	50	sec	7	min

TEST VEHICLE PROPULSION BATTERY ELECTROLYTE SPILLAGE

NOTE: The maximum allowable Propulsion Battery Electrolyte Spillage is 5.0 Liters.

Test Phase	Propulsion Battery Electrolyte Spillage (L)	Spillage Location
0° to 90°	0	Not Applicable
90° to 180°	0	Not Applicable
180° to 270°	0	Not Applicable
270° to 360°	0	Not Applicable
Total Spillage	0	

	Yes (Fail)	No
Is the total Propulsion Battery Electrolyte Spillage greater than 5.0 Liters?		X
Is the Propulsion Battery Electrolyte Spillage visible in the passenger compartment?		X

DATA SHEET NO. 305-5 (CONTINUED)
STATIC ROLLOVER TEST DATA
FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

VOLTMETER INFORMATION

	Units	Observations and Conclusions
Make		Fluke
Model		177
Serial Number		61660495
Internal Impedance Value	MΩ	> 10 MΩ < 100 pF
Resolution	V	0.001
Last Calibration Date		2/21/2025

ELECTRICAL ISOLATION MEASUREMENTS

Vb Post-Impact	V	0.0
----------------	---	-----

Record V1, V2, V1', V2' voltage measurements at the start of each successive increment of 90°, 180°, 270°, and 360° of the static rollover test.

	Voltage	Units	Test Phase	Time			
V1	0.0	V	0°				
	0.0		90°	2	min	20	sec
	0.0		180°	2		35	
	0.0		270°	2		22	
	0.0		360°	2		45	
V2	0.0	V	0°				
	0.0		90°	2	min	24	sec
	0.0		180°	2		40	
	0.0		270°	2		26	
	0.0		360°	2		50	
V1'	0.0	V	0°				
	0.0		90°	2	min	34	sec
	0.0		180°	2		48	
	0.0		270°	2		34	
	0.0		360°	2		58	
V2'	0.0	V	0°				
	0.0		90°	2	min	29	sec
	0.0		180°	2		44	
	0.0		270°	2		30	
	0.0		360°	2		54	

DATA SHEET NO. 305-5 (CONTINUED)
STATIC ROLLOVER TEST DATA
FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Volkswagen ID.Buzz 1st Edition 5-Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: O20255801
 Test Date: 9/5/2025

ELECTRICAL ISOLATION CALCULATIONS

NOTE: If measured voltage is zero and results in a division by zero, record "Zero Volts".
 This "zero voltage" condition is considered as being compliant.

	Voltage	Units	Test Phase	Time		
$Ri1 = Ro (1 + V2/V1) [(V1-V1')/V1']$						
Ri1	Zero Volts	Ω	0°		min	
	Zero Volts		90°	2		34
	Zero Volts		180°	2		48
	Zero Volts		270°	2		34
	Zero Volts		360°	2		58
$Ri2 = Ro (1 + V1/V2) [(V2-V2')/V2']$						
Ri2	Zero Volts	Ω	0°		min	
	Zero Volts		90°	2		29
	Zero Volts		180°	2		44
	Zero Volts		270°	2		30
	Zero Volts		360°	2		54
$Ri = \text{The lesser of } Ri1 \text{ and } Ri2$						
Ri	Zero Volts	Ω	0°		min	
	Zero Volts		90°	2		29
	Zero Volts		180°	2		44
	Zero Volts		270°	2		30
	Zero Volts		360°	2		54
$Ri / Vb = \text{Electrical Isolation Value} / \text{Nominal Battery Voltage}$						
Ri / Vb	Zero Volts	Ω/V	0°		min	
	Zero Volts		90°	2		29
	Zero Volts		180°	2		44
	Zero Volts		270°	2		30
	Zero Volts		360°	2		54

NOTE: The minimum Electrical Isolation Value is 500 Ω/V.

	Yes	No (Fail)
Is the measured Electrical Isolation Value ≥ 500 Ω/V?	X	
Additional Comments	None	

**APPENDIX A
PHOTOGRAPHS**

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Photo No. 001 - As Delivered Right Front Three-Quarter View of Test Vehicle



Photo No. 002 - As Delivered Left Rear Three-Quarter View of Test Vehicle



Photo No. 003 - Pre-Test Frontal View of Test Vehicle



Photo No. 004 - Post-Test Frontal View of Test Vehicle

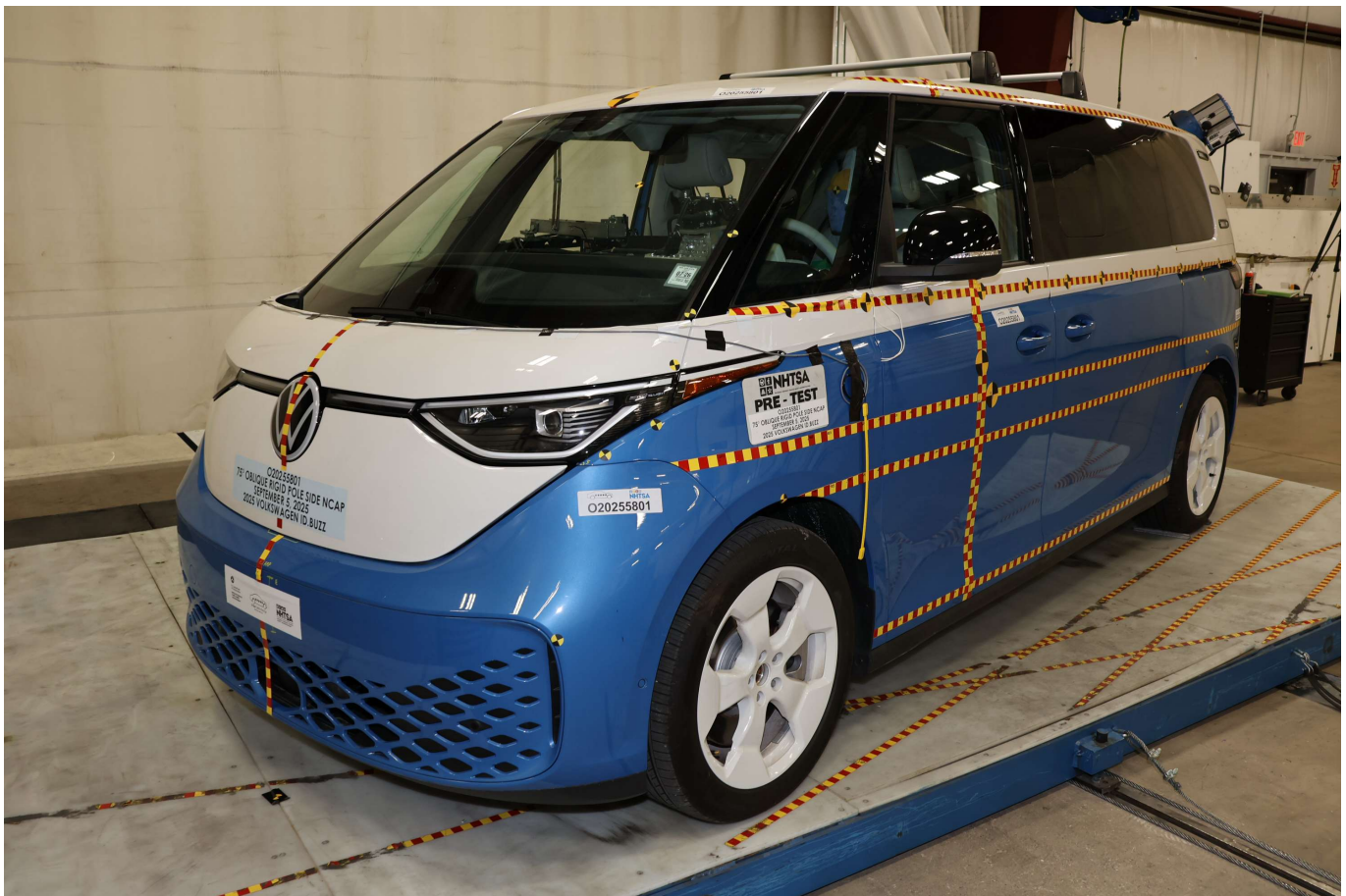


Photo No. 005 - Pre-Test Left Front Three-Quarter View of Test Vehicle



Photo No. 006 - Post-Test Left Front Three-Quarter View of Test Vehicle



Photo No. 007 - Pre-Test Left Side View of Test Vehicle



Photo No. 008 - Post-Test Left Side View of Test Vehicle

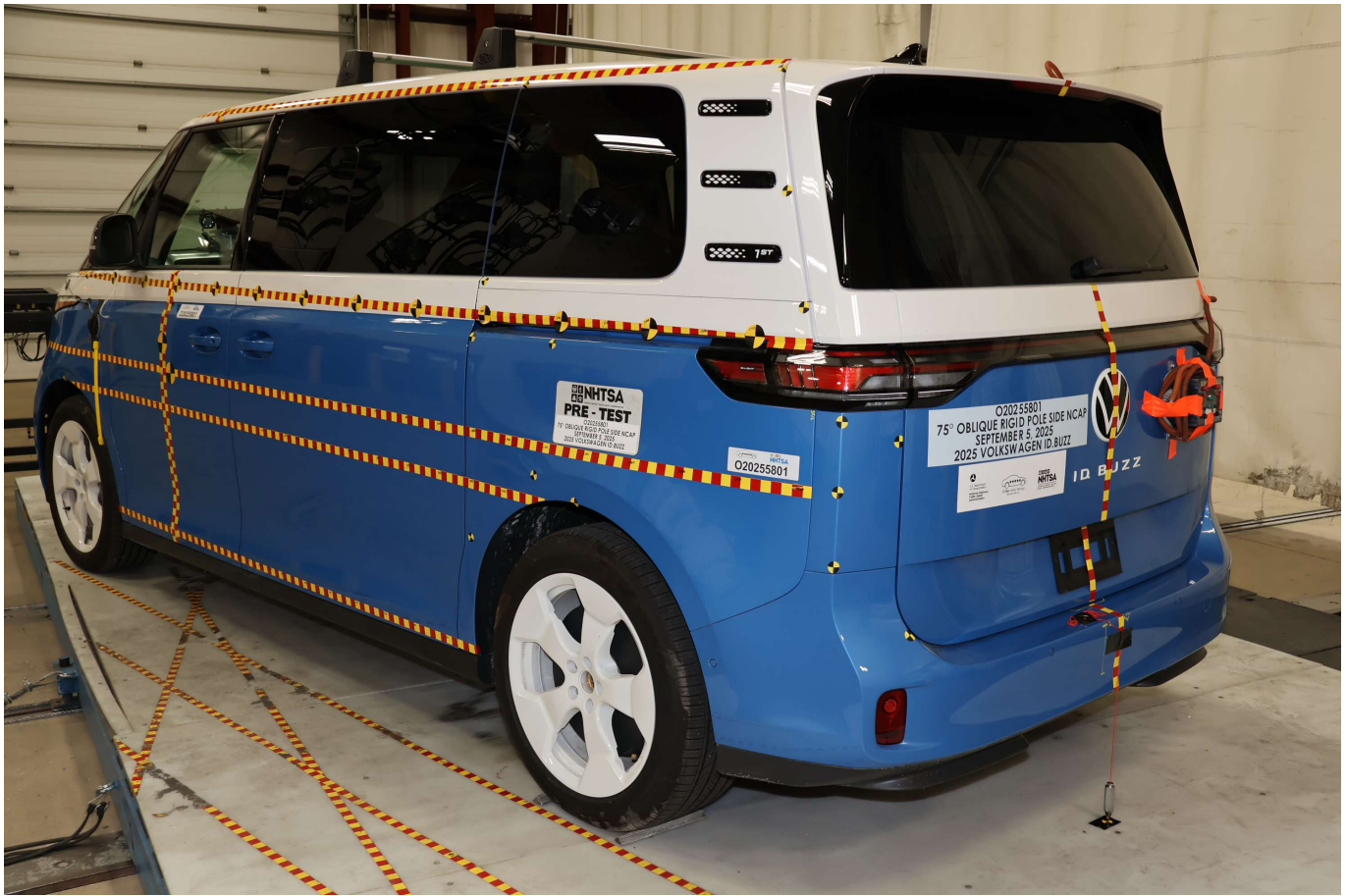


Photo No. 009 - Pre-Test Left Rear Three-Quarter View of Test Vehicle



Photo No. 010 - Post-Test Left Rear Three-Quarter View of Test Vehicle



Photo No. 011 - Pre-Test Rear View of Test Vehicle



Photo No. 012 - Post-Test Rear View of Test Vehicle



Photo No. 013 - Pre-Test Right Side View of Test Vehicle



Photo No. 014 - Post-Test Right Side View of Test Vehicle

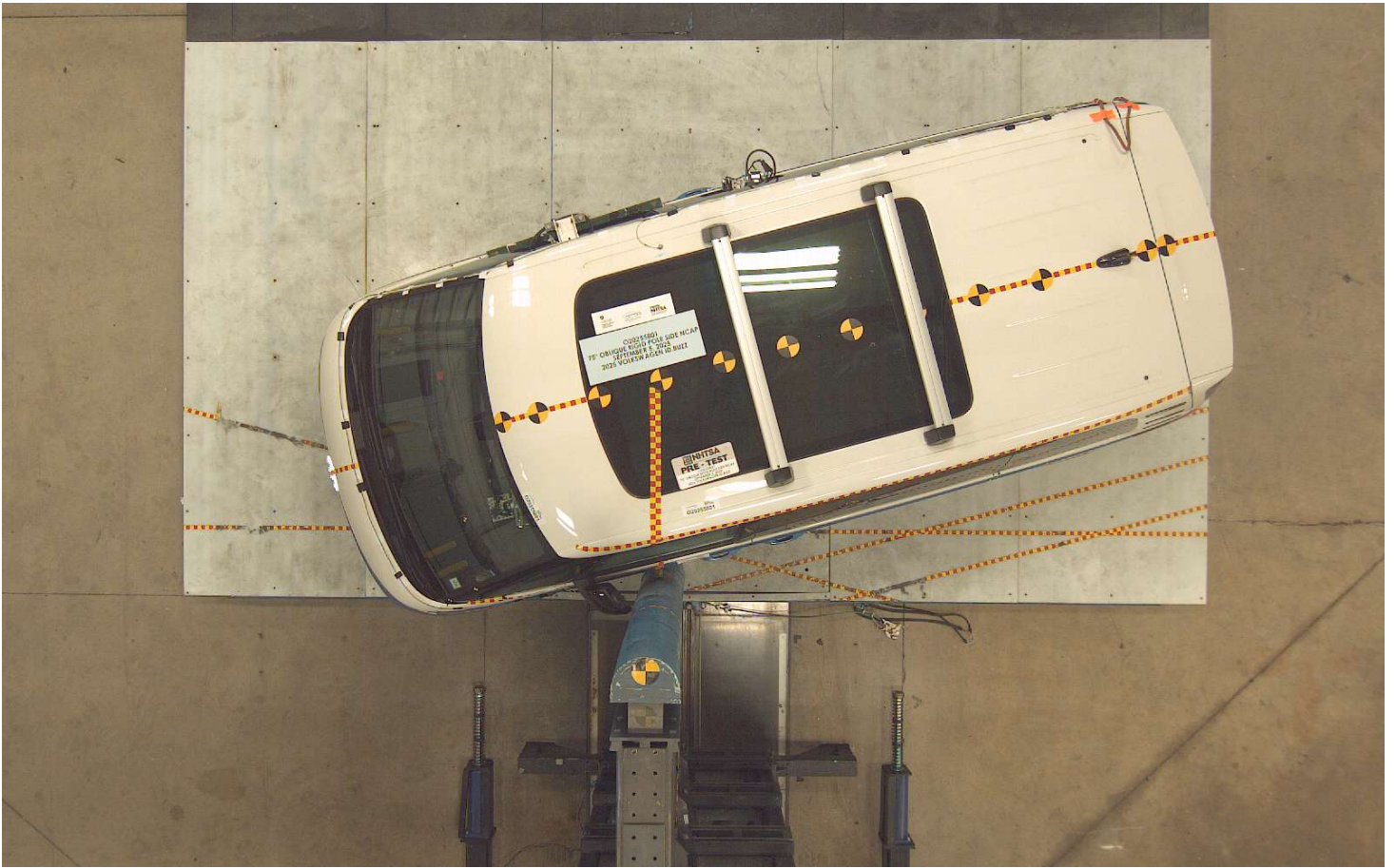


Photo No. 015 - Pre-Test Overhead View of Test Area

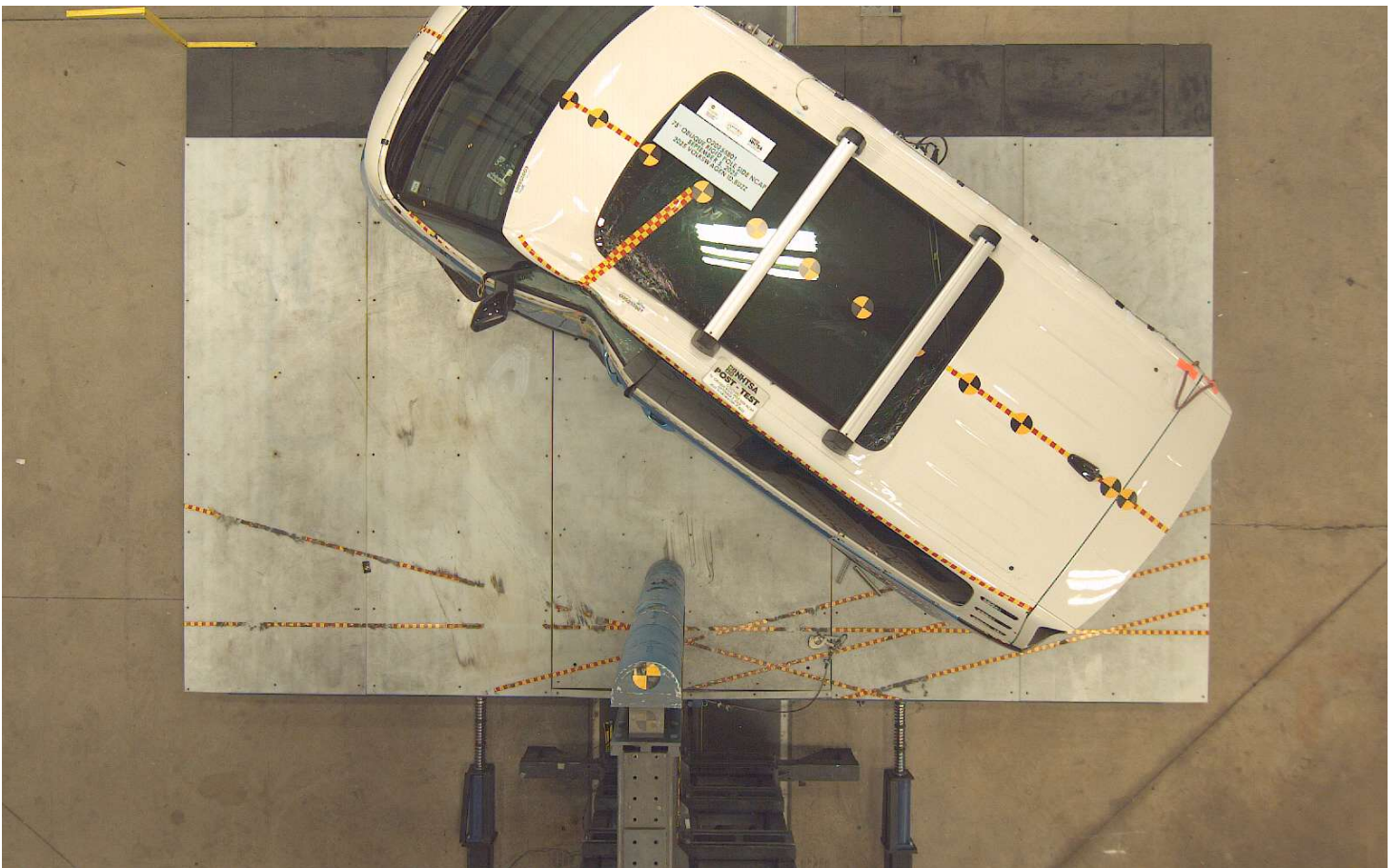


Photo No. 016 - Post-Test Overhead View of Test Area



Photo No. 017 - Pre-Test Left Side View of Pole Positioned Against Side of Vehicle



Photo No. 018 - Pre-Test Right Side View of Pole Positioned Against Side of Vehicle



Photo No. 019 - Pre-Test Close-Up View of Impact Point Target

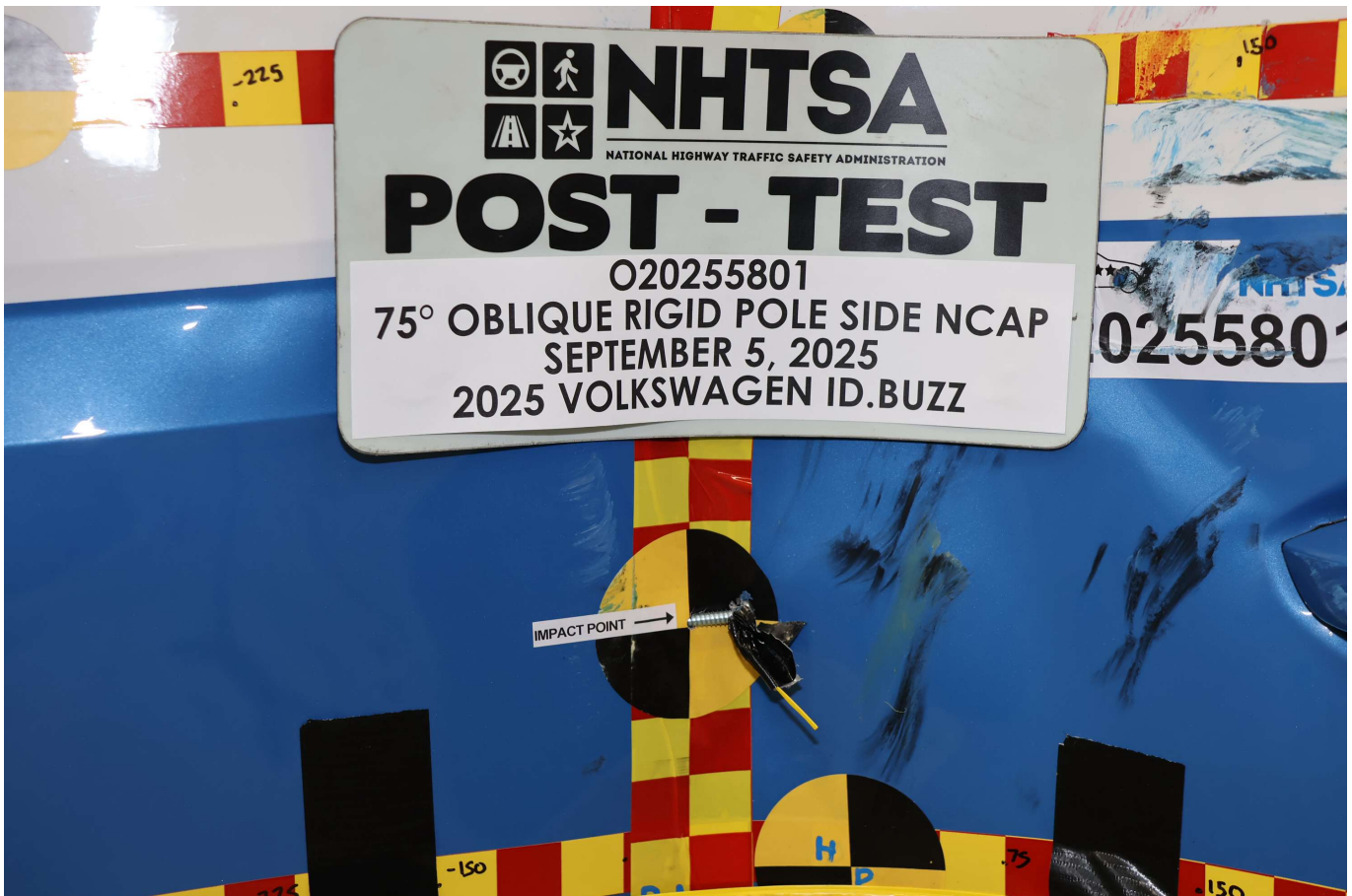


Photo No. 020 - Post-Test Close-Up View of Impact Point Target Showing Impact Location



Photo No. 021 - Pre-Test Front Close-Up View of Dummy Head and Chest



Photo No. 022 - Post-Test Front Close-Up View of Dummy



Photo No. 023 - Pre-Test Left Side View of Dummy Showing Belt and Chalking



Photo No. 024 - Pre-Test Left Side View of Dummy Shoulder and Door Top View



Photo No. 025 - Post-Test Left Side View of Dummy Shoulder and Door Top View



Photo No. 026 - Pre-Test Front View of Seat Back Prior to Dummy Positioning



Photo No. 027 - Pre-Test Front Close-Up View of Dummy Head and Shoulders in Relation to Head Restraint



Photo No. 028 - Pre-Test Front View of Seat Pan Prior to Dummy Positioning



Photo No. 029 - Pre-Test Overhead View of Dummy Thighs on Seat Pan



Photo No. 030 - Pre-Test Left Side View of Dummy's Neck Showing Position of Adjustable Neck Bracket



Photo No. 031 - Pre-Test Left Side View of Dummy's Head Showing Dummy's Head is Level



Photo No. 032 - Pre-Test Placement of Dummy's Feet



Photo No. 033 - Pre-Test View of Belt Anchorage for Dummy



Photo No. 034 - Pre-Test Left Side View of Steering Wheel

PHOTOGRAPH NOT APPLICABLE

Photo No. 035 - Pre-Test View of Disengaged Parking Brake

PHOTOGRAPH NOT APPLICABLE

Photo No. 036 - Pre-Test View of Parking Brake



Photo No. 037 - Pre-Test Close-Up Left Side View of Driver Seat Track



Photo No. 038 - Pre-Test Close-Up Left Side View of Driver Seat Back



Photo No. 039 - Pre-Test Close-Up View of Driver Seat Back or Head Restraint



Photo No. 040 - Pre-Test Dummy and Door Clearance View



Photo No. 041 - Post-Test Dummy and Door Clearance View



Photo No. 042 - Pre-Test Right Side View of Dummy and Front Seat of Occupant Compartment



Photo No. 043 - Post-Test Right Side View of Dummy and Front Seat of Occupant Compartment



Photo No. 044 - Pre-Test Inner Door Panel View



Photo No. 045 - Post-Test Inner Door Panel View Showing Dummy Contact Location



Photo No. 046 - Post-Test Dummy Close-Up Head Contact with Vehicle Interior View



Photo No. 047 - Post-Test Dummy Close-Up Head Contact with Side Air Bag View



Photo No. 048 - Post-Test Dummy Close-Up Torso Contact with Vehicle Interior View

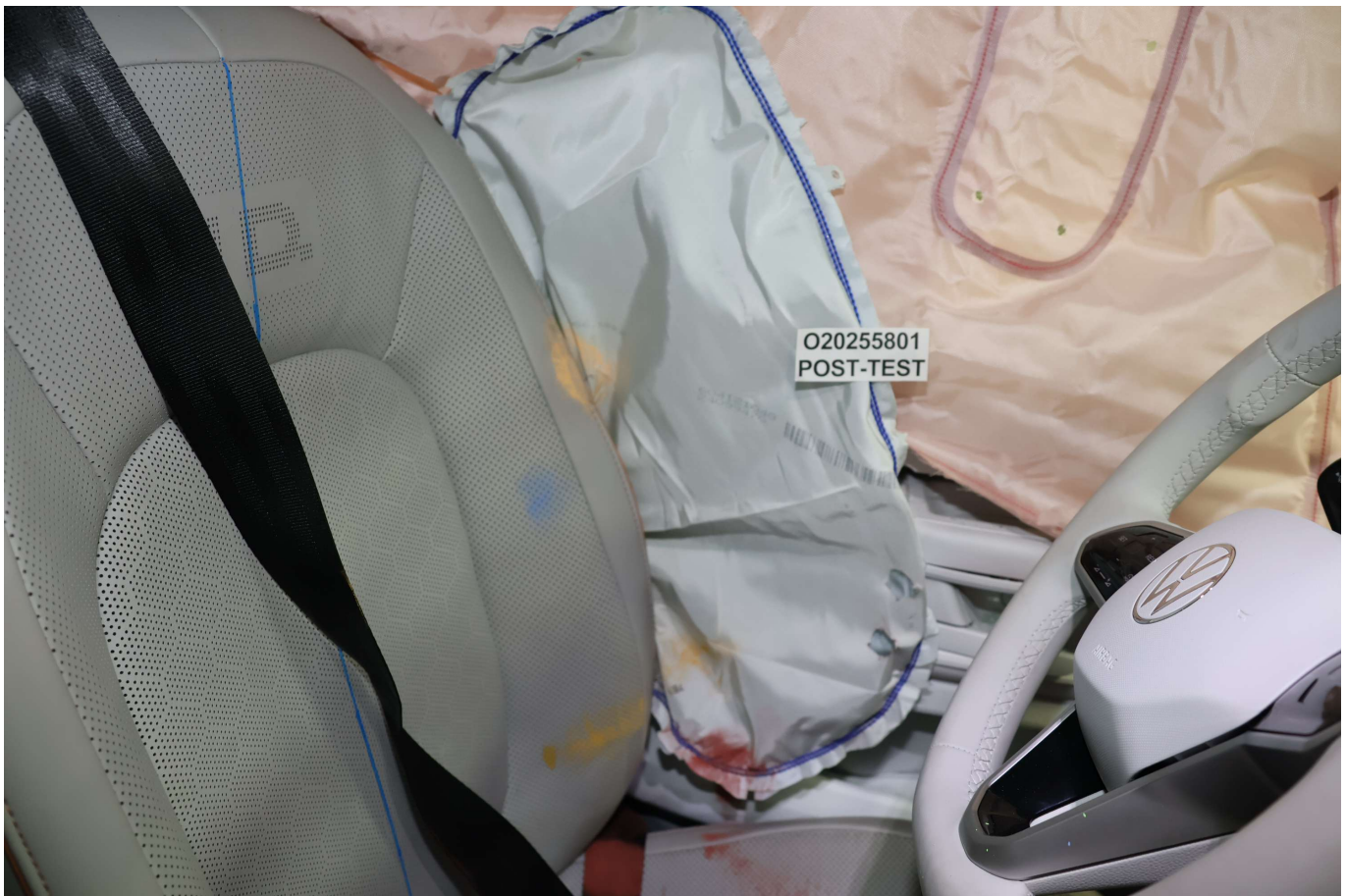


Photo No. 049 - Post-Test Dummy Close-Up Torso Contact with Side Air Bag View



Photo No. 050 - Post-Test Dummy Close-Up Pelvis Contact with Vehicle Interior View



Photo No. 051 - Post-Test Dummy Close-Up Pelvis Contact with Side Air Bag View



Photo No. 052 - Post-Test Dummy Close-Up Knee Contact with Vehicle Interior View



Photo No. 053 - Post-Test Right Side View of Dummy and Rear Seat of Occupant Compartment

PHOTOGRAPH NOT APPLICABLE

Photo No. 054 - Post-Test Inner Rear Passenger Torso Air Bag Deployment View

PHOTOGRAPH NOT APPLICABLE

Photo No. 055 - Pre-Test View of Fuel Filler Cap or Fuel Filler Neck

PHOTOGRAPH NOT APPLICABLE

Photo No. 056 - Post-Test View of Fuel Filler Cap or Fuel Filler Neck



Photo No. 057 - Close-Up View of Vehicle's Certification Label



Photo No. 058 - Close-Up View of Vehicle's Tire Information Placard or Label



Photo No. 059 - Pre-Test Pole Barrier Front View

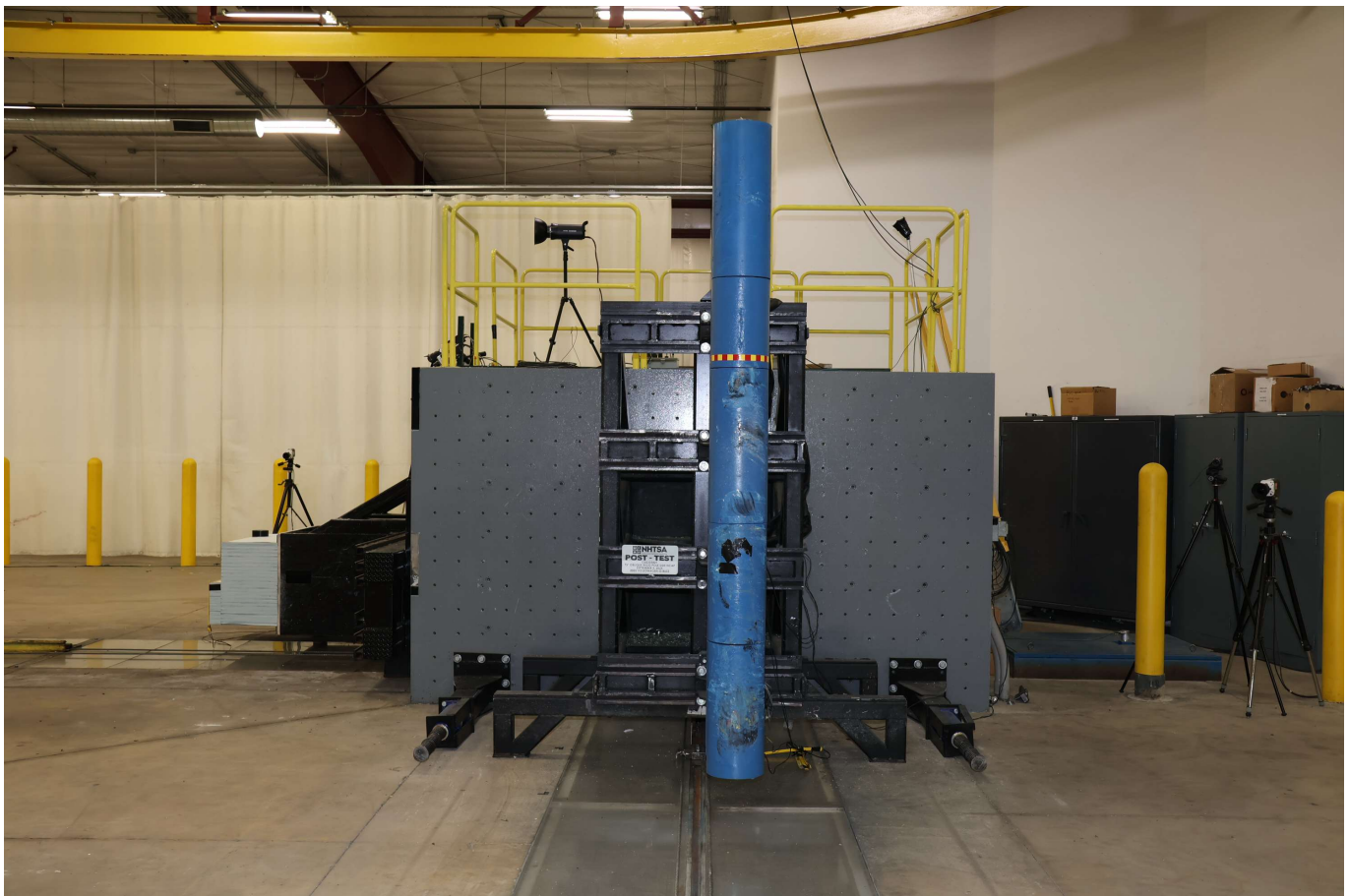


Photo No. 060 - Post-Test Pole Barrier Front View



Photo No. 061 - Pre-Test Pole Barrier Side View



Photo No. 062 - Post-Test Pole Barrier Side View

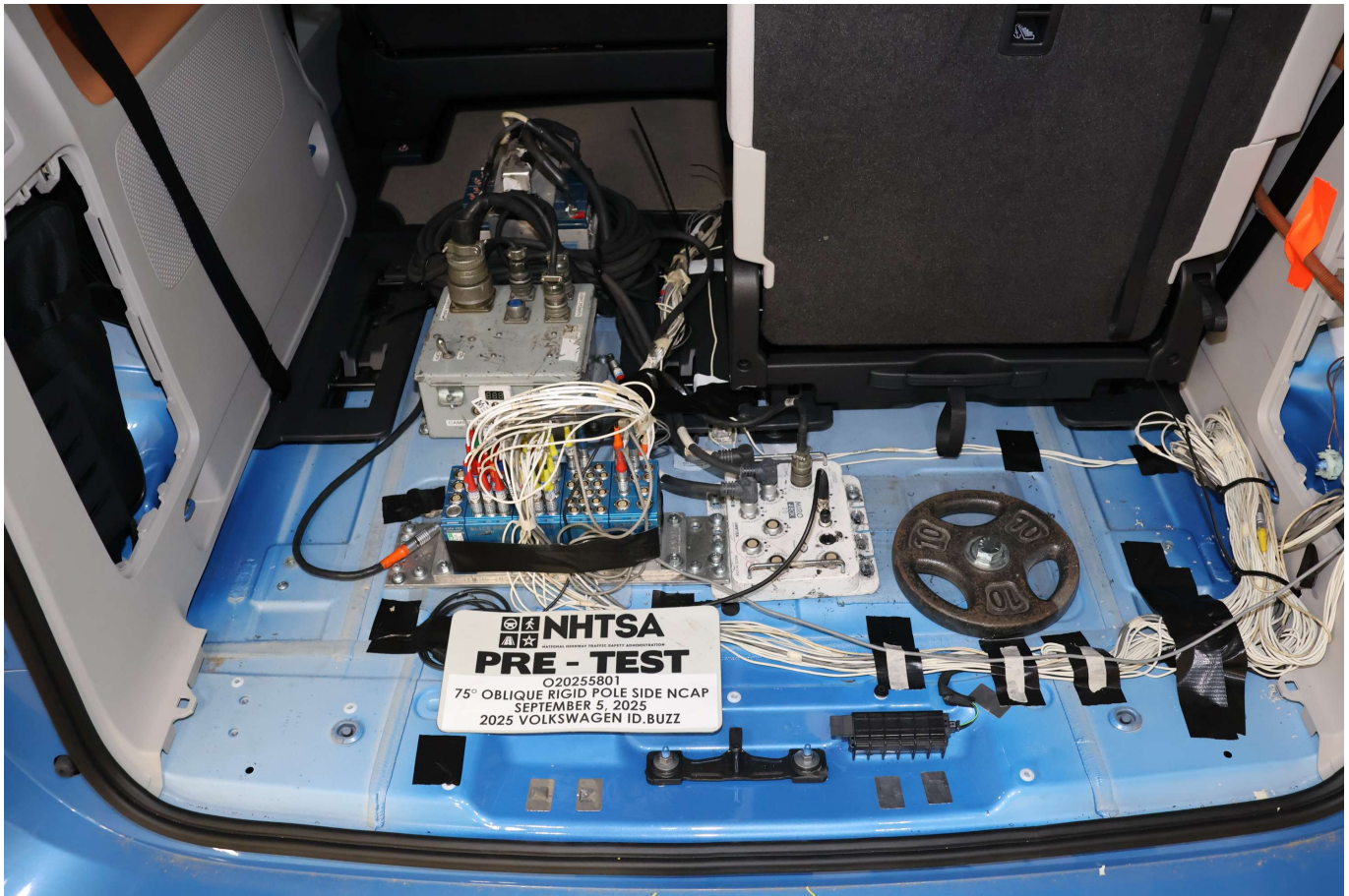


Photo No. 063 - Pre-Test Ballast View



Photo No. 064 - Post-Test Primary and Redundant Speed Trap Read-Out

PHOTOGRAPH NOT APPLICABLE

Photo No. 065 - FMVSS Photo No. 301 Static Rollover 0 Degrees

PHOTOGRAPH NOT APPLICABLE

Photo No. 066 - FMVSS Photo No. 301 Static Rollover 90 Degrees

PHOTOGRAPH NOT APPLICABLE

Photo No. 067 - FMVSS Photo No. 301 Static Rollover 180 Degrees

PHOTOGRAPH NOT APPLICABLE

Photo No. 068 - FMVSS Photo No. 301 Static Rollover 270 Degrees

PHOTOGRAPH NOT APPLICABLE

Photo No. 069 - FMVSS Photo No. 301 Static Rollover 360 Degrees



Photo No. 070 - Impact Event

EPA DOT Fuel Economy and Environment

83 MPGe combined city/hwy
90 city
75 highway
41 kW-hrs per 100 miles

Driving Range
 When fully charged, vehicle can travel about **234** miles

Charge Time: 9 hours (240V)

Electric Vehicle

2025 ID. Buzz 1st Edition

Cabana Blue & Candy White exterior
 Dune™ interior w/ leatherette

91 kWh battery

Volkswagen

You save \$4,500 in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost \$1,000

Fuel Economy & Greenhouse Gas Rating MPG **9** Smog Rating **10** Best

This vehicle emits 0 grams of CO₂ per mile. The best emits 0 grams per mile (tailpipe only). Does not include emissions from generating electricity; learn more at fuelconomy.gov.

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 28 MPG and costs \$9,500 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$0.16 per kW-hr. MPGe is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fuelconomy.gov
Calculate personalized estimates and compare vehicles

GOVERNMENT 5-STAR SAFETY RATINGS

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.

Frontal Crash	Driver Passenger	Not Rated
Side Crash	Front Seat Rear Seat	Not Rated
Rollover		Not Rated

Star ratings range from 1 to 5 stars (★★★★★) with 5 being the highest.
 Source: National Highway Traffic Safety Administration (NHTSA).
www.safercar.gov or 1-888-327-4236

PARTS CONTENT INFORMATION

For vehicles in this carline:
U.S./CANADIAN PARTS CONTENT: 1%
GERMANY 26%
CHINA 25%

Note: parts content does not include final assembly, distribution or other non-parts costs.

For this vehicle:
Final assembly point: HANNOVER, GERMANY
Country of origin: GERMANY
ENGINE (MOTOR): GERMANY
TRANSMISSION: GERMANY

VIN: WVG5WVEB7SH015297
 COMM. NUMBER: 9N6448

Port of Entry: BALTIMORE
 GVWR: 3,360 kg/ 7,408 lbs
 GVWR Threshold: 45.36 kg/ 100.0 lbs
 Accessories Weight: 4.57 kg/ 10.07 lbs

STANDARD FEATURES (unless replaced by packages or options)

PERFORMANCE

- Single electric motor; rear-wheel drive
- 91 kWh (gross) Lithium-ion battery pack
- Four-wheel independent suspension

EXTERIOR

- Automatic LED headlights & LED Daytime Running Lights (DRL); LED taillights
- Adaptive Front Lighting System (AFS) w/ dynamic cornering lights
- Poor Weather Lights (improves visibility in inclement weather)
- Luminated front Volkswagen logo; light bar; illuminated front door handles
- Power folding, heated, power adjustable side mirrors w/ position memory & puddle lights
- Rain-sensing, variable intermittent front wipers
- Rear window washer & wiper

1st EDITION FEATURES

- 20" 1st Edition alloy wheels w/ all-season tires
- 1st Edition badging & exterior trim; roof rack base carrier bars (set of 2)
- Two-tone exterior paint scheme, featuring Candy White upper body
- Panoramic fixed-glass roof w/ electrochromic smart glass
- HeritageMats™ premium woven floor mats

INTERIOR

- ClimatePro® three-zone automatic climate control w/ advanced air filter
- Rear zone climate control panel in 2nd row; adjustable air vents in 2nd row
- Heated, multi-function steering wheel w/ touch controls
- Front seats: heated & ventilated, 12-way power adjustable (including 4-way lumbar support) w/ lumbar massage function & position memory
- 2nd-row seat: 60/40 split-folding, folds flat, slides & reclines, w/ 3rd-row access
- Heated 2nd row (outboard seating positions)
- 3rd-row seat: removable, 50/50 split-folding & folds flat
- V-Tex leatherette seating surfaces
- Front-row USB-C data ports; USB-C charging ports in all three rows; 115V AC outlet in front row
- Removable front center console w/ flexible storage (mounts between front seats)
- Auto-dimming interior rearview mirror; footwell lights in front & 2nd rows; reading lights
- Multi-color adjustable ambient lighting
- Illuminated, carpeted cargo area; Flexboard adjustable storage system
- Stainless steel pedal caps w/ "Play" & "Pause" symbols

SAFETY & DRIVER ASSISTANCE

- Advanced Airbag Protection System w/ 7 airbags
- Anti-Slip Regulation (ASR); Electro-mechanical Brake Booster (eBB)
- Electronic Brake-pressure Distribution (EBD); Brake Assist System (BAS)
- Electronic Stability Control (ESC); Electronic Differential Lock (EDL)
- Intelligent Crash Response System (ICRS); Automatic Post-Collision Braking System
- Lower Anchors & Tethers for Children (LATCH); Tire Pressure Monitoring System (TPMS)
- Rear View Camera System w/ Area View (Overhead View Camera)
- Park Assist Plus (Parking Steering, Speed, & Gear Change Assistant) w/ Memory Parking*
- *not available in Puerto Rico
- Park Distance Control, front & rear
- Dynamic Road Sign Display
- Light Assist (High Beam Control for headlights)
- IQ.DRIVE® features:
 - Travel Assist (semi-automated driving assistance)
 - Adaptive Cruise Control (ACC) Stop & Go
 - Lane Assist (Lane Keeping System)
 - Emergency Assist (semi-automated vehicle assistance in a medical emergency)
 - Front Assist (Forward Collision Warning & Automatic Emergency Braking w/ Pedestrian & Cyclist Monitoring)
 - Active Side Assist (Blind Spot Monitor)
 - Rear Traffic Alert

TECHNOLOGY & CONVENIENCE

- DC fast charging capability (requires compatible public charging station)
- IQ Light
- Advanced keyless access (front doors & liftgate) w/ Approach Unlock
- Remote power sliding 2nd-row doors w/ power windows; remote power rear liftgate
- Hands-free Easy Open & Easy Close 2nd-row doors & rear liftgate
- 12.9" touchscreen multi-function center display w/ backlit sliders
- Discover Pro Max: touchscreen navigation & FM/HD Radio™ w/ voice control
- SiriusXM™ w/ 90L (3-month trial subscription; requires acceptance of SiriusXM Terms)
- Harman Kardon® premium audio system w/ 13 speakers & subwoofer
- Bluetooth® connectivity (for compatible devices)
- App-Connect® smartphone integration (for compatible devices) via wireless & USB
- Qi wireless charging (for compatible mobile phones & accessories)

INCLUDED CAR-NET® CONNECTED VEHICLE SERVICES

- Visit vw.com/connected for the features & limitations of these included plans:
 - Vehicle Insights 7-year plan
 - Remote Access 5-year plan
 - Safe & Secure 5-year plan
 - Plus Speech with AI 3-year plan
 - Plus Nav 3-year plan
- Plan periods begin on sale date; must accept Terms; subject to connectivity & 4G LTE availability.

WARRANTY INFORMATION

- Volkswagen New Vehicle Limited Warranty: 4 years/50,000 miles (whichever occurs first)*
- 4-year/100,000 miles (whichever occurs first) except high-voltage battery; high-voltage battery: 8 years/100,000 miles (whichever occurs first)*
- Limited Warranty against Corrosion Perforation: 7 years/100,000 miles (whichever occurs first)*

SCHEDULED CAREFREE MAINTENANCE®

- Includes scheduled maintenance at 1 year/10,000 miles (whichever occurs first)* and 2 years/20,000 miles (whichever occurs first)*

24-HOUR ROADSIDE ASSISTANCE

- 3 years/36,000 miles (whichever occurs first)*. Services provided by third party supplier.

*See owner's literature or dealer for details and limitations on all warranties and services.

IQ.DRIVE. Advanced Driver Assistance Technologies

Equipped with Volkswagen Car-Net®
 Available through myVW. Services require acceptance of myVW and Car-Net Terms of Service; some require a paid subscription. Visit vw.com/carnet for details.

Base Manufacturer's Suggested Retail Price: \$65,495.00

PACKAGES & OPTIONS

Cabana Blue & Candy White exterior	No Charge
"Dune" interior w/ leatherette	No Charge
Auto-Dimming Rearview Mirror w/ HomeLink Connect® & 4-year app subscr. (Must accept Terms; see connect.homelink.com)	\$405.00
2-in-1 (240V/120V) Mobile EV Charging Cable	\$350.00
Volkswagen Prepaid Scheduled Maintenance w/ 30,000-mile services for Electric Vehicles	\$85.00
First Aid Kit	\$42.00
3-year Electrify America Pass+ membership; reduced charging costs & 500 kWh (begins on sale date; must accept Terms)	No Charge
91 kWh battery	No Charge

Total Manufacturer's Suggested Retail Price: \$67,927.00

Does not include: fuel, license, title or registration fees; taxes; dealer fees; or any options or items not listed above.

Ready to make this your new ride? Apply now with Volkswagen Credit!

Photo No. 071 - Monroney Label

Removing and installing front head restraints

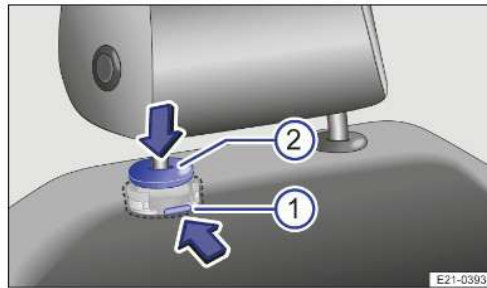


Fig. 1 On the front seats: mechanism for removing the head restraint.

Removing the front head restraints

The head restraint catch is located on the left-hand guide pin in the direction of travel under the seat cover in the seat padding and must be felt.

1. Press catch → Fig. 1 **1** forward in the direction of the arrow and hold.
2. Press the ring **2** down to unlock the head restraint.
3. Pull the head restraint out upwards.

Installing the front head restraints

1. Position the head restraint correctly over the head restraint guides and then insert into the guides of the corresponding seat backrest.
2. Slide the head restraint all the way down until the guide pins click into place.
3. Adjust the head restraint so that a correct sitting position can be assumed (→ [Head restraints](#)).

Photo No. 072 - Head Restraint Use and Adjustment Information from Vehicle Owner's Manual



Photo No. 073 - Post-Test View of Shattered Vehicle Inner Door Panel

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-01 - Auxiliary Power Module Warning Label

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-02 - Power Inverter Warning Label



Photo No. 305-03 - First Responder Warning Label



Photo No. 305-04 - First Responder Warning Location

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-05 - Other Vehicle Label(s) Related to Electrical Propulsion System



Photo No. 305-06 - Manual High Voltage Service Disconnect in Place



Photo No. 305-07 - Manual High Voltage Service Disconnect Removed

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-08 - Manual High Voltage Service Disconnect Removed

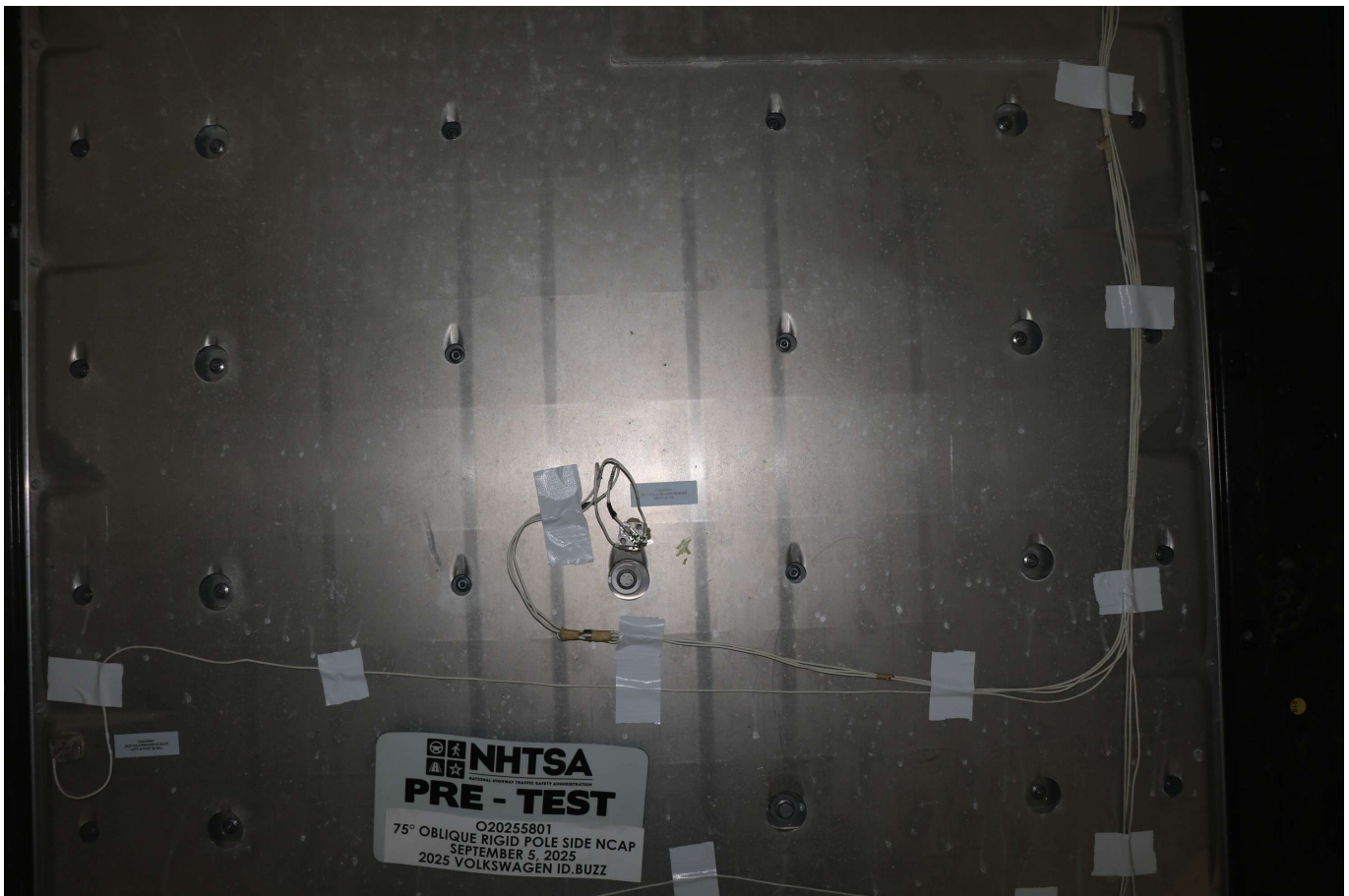


Photo No. 305-09 - Pre-Impact View of Propulsion Battery

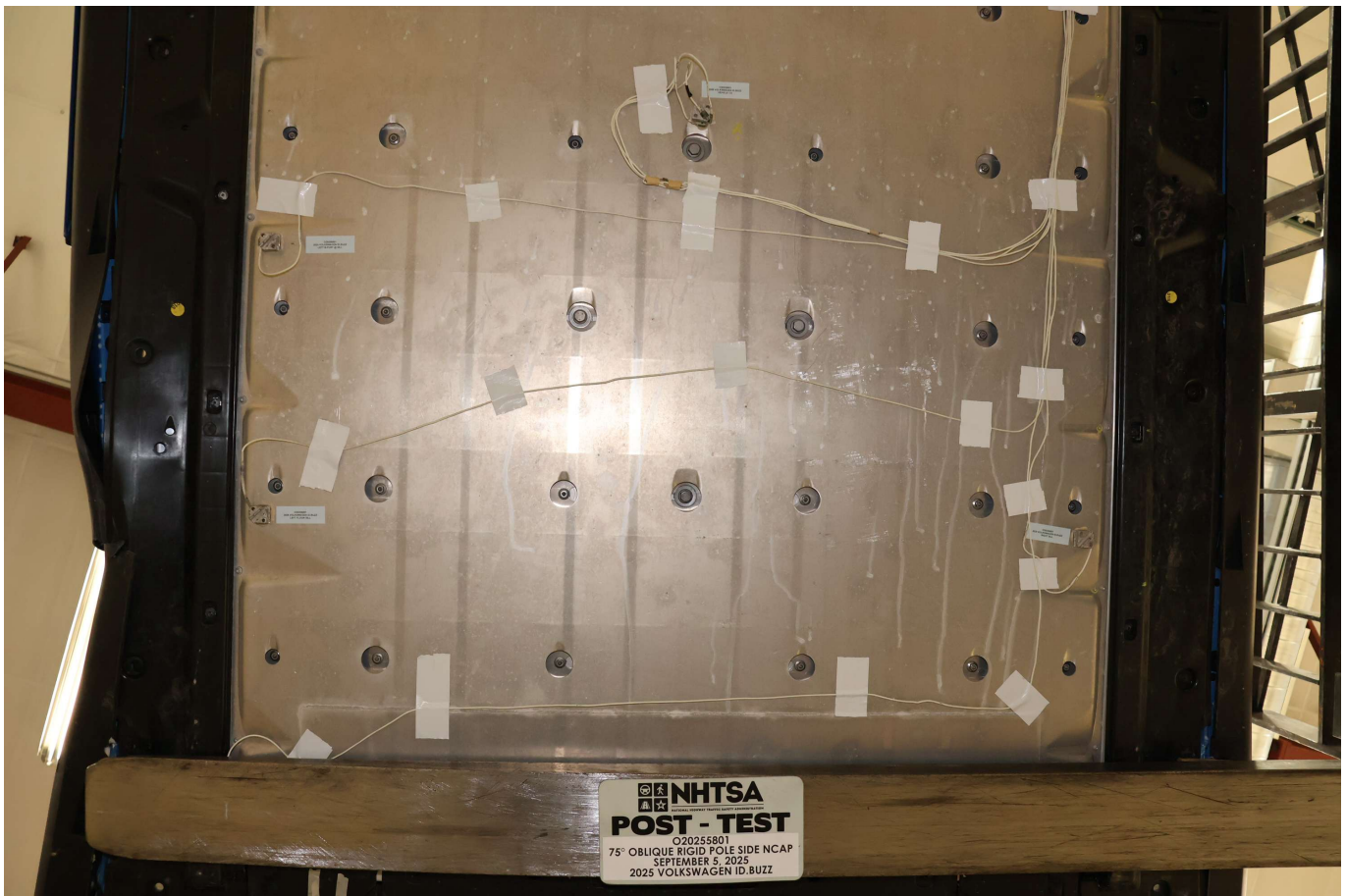


Photo No. 305-10 - Post-Impact Front View of Propulsion Battery

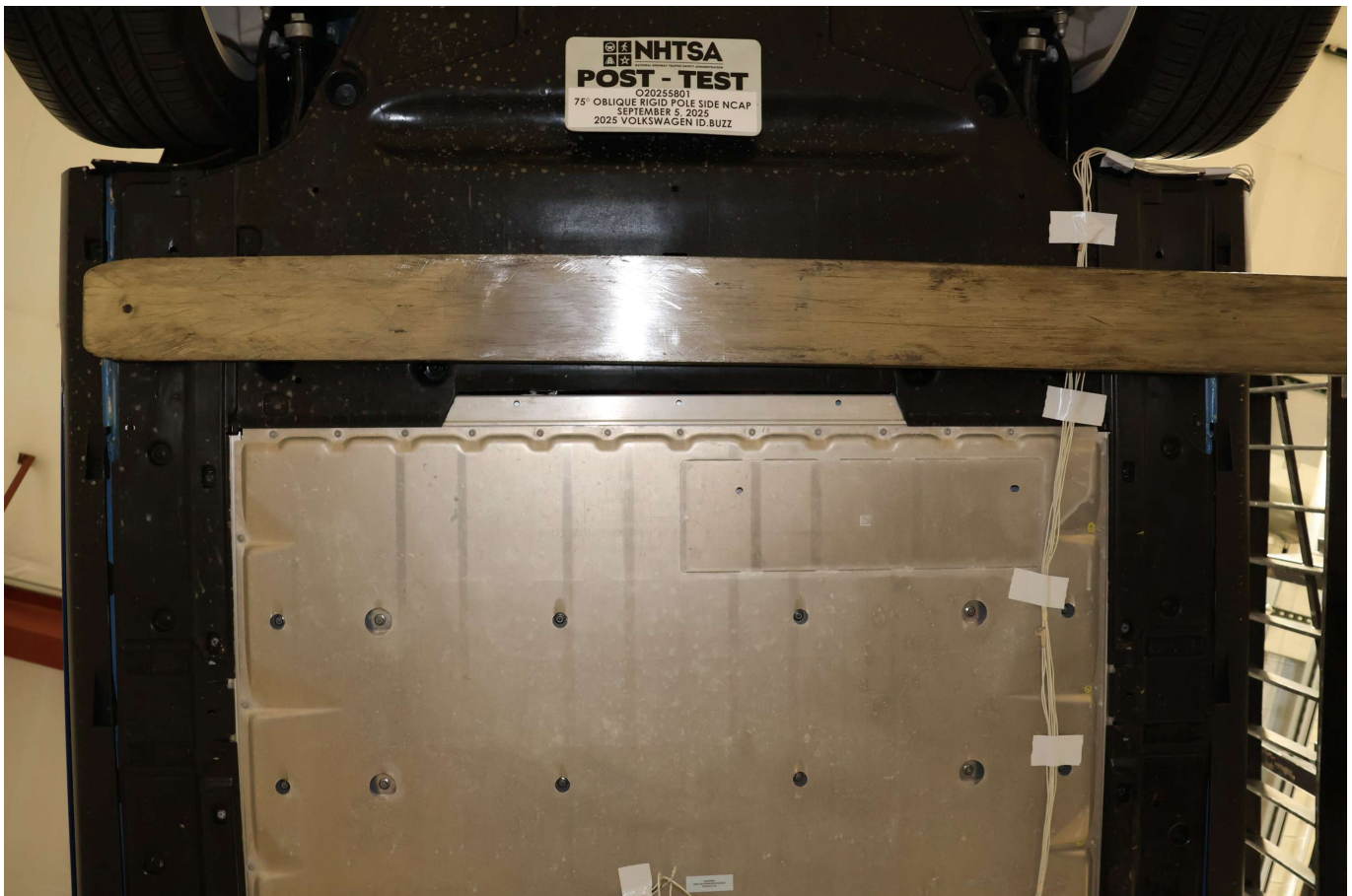


Photo No. 305-11 - Post-Impact Rear View of Propulsion Battery

PHOTOGRAPH NOT AVAILABLE

Photo No. 305-12 - Pre-Impact View of Battery Box(s) or Container(s) Which Holds Individual Battery Modules

PHOTOGRAPH NOT AVAILABLE

Photo No. 305-13 - Post-Impact View of Battery Box(s) or Container(s) Which Holds Individual Battery Modules

PHOTOGRAPH NOT AVAILABLE

Photo No. 305-14 - Pre-Impact View of Propulsion Battery Module(s)

PHOTOGRAPH NOT AVAILABLE

Photo No. 305-15 - Post-Impact View of Propulsion Battery Module(s)



Photo No. 305-16 - Pre-Impact View of Electric Propulsion Drive



Photo No. 305-17 - Post-Impact View of Electric Propulsion Drive

PHOTOGRAPH NOT AVAILABLE

Photo No. 305-18 - Pre-Impact View of High Voltage Interconnect(s)

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-19 - Pre-Impact View Propulsion Battery Venting System(s)

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-20 - Pre-Impact View of Other Visible Electric Propulsion Components



Photo No. 305-21 - Pre-Impact View of Ground Lead Attached



Photo No. 305-22 - Pre-Impact View of High Voltage Leads Attached



Photo No. 305-23 - Pre-Impact Close-Up View of High Voltage Leads Attached



Photo No. 305-24 - Pre-Impact View of Installed Test Interface Port



Photo No. 305-25 - Post-Impact View of Installed Test Interface Port



Photo No. 305-26 - Pre-Impact View of Other Test Devices



Photo No. 305-27 - Post-Impact View of Other Test Devices



Photo No. 305-28 - FMVSS No. 305 Static Rollover at 90 Degrees



Photo No. 305-29 - FMVSS No. 305 Static Rollover at 180 Degrees



Photo No. 305-30 - FMVSS No. 305 Static Rollover at 270 Degrees



Photo No. 305-31 - FMVSS No. 305 Static Rollover at 360 Degrees



Photo No. 305-32 - Pre-Impact View of the Vehicle Passenger Compartment Adjacent to Propulsion Battery



Photo No. 305-33 - Post-Impact View of the Vehicle Passenger Compartment Adjacent to Propulsion Battery

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-34 - Post-Impact Propulsion Battery System Mounting and-or Intrusion Failure(s)

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-35 - Post-Impact View of Battery Component Intrusion

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-36 - Post-Impact View of Battery Module Movement or Retention Loss

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-37 - Post-Impact View of Propulsion Battery Electrolyte Spillage Location

PHOTOGRAPH NOT APPLICABLE

Photo No. 305-38 - Post-Test View of Propulsion Battery Electrolyte Spillage Location

APPENDIX B
DUMMY RESPONSE DATA PLOTS

TABLE OF DATA PLOTS
Driver Dummy Instrumentation Plots

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Figure No. 1.	Driver Head CG Acceleration (X) vs. Time	B-1
Figure No. 2.	Driver Head CG Acceleration (Y) vs. Time	B-1
Figure No. 3.	Driver Head CG Acceleration (Z) vs. Time	B-1
Figure No. 4.	Driver Head CG Resultant Acceleration (X) vs. Time	B-1
Figure No. 5.	Driver Lower Spine T12 Acceleration (X) vs. Time	B-2
Figure No. 6.	Driver Lower Spine T12 Acceleration (Y) vs. Time	B-2
Figure No. 7.	Driver Lower Spine T12 Acceleration (Z) vs. Time	B-2
Figure No. 8.	Driver Lower Spine T12 Resultant Acceleration vs. Time	B-2
Figure No. 9.	Driver Iliac Wing Force on Impact Side (Y) vs. Time	B-3
Figure No. 10.	Driver Acetabulum Force on Impact Side (Y) vs. Time	B-3
Figure No. 11.	Driver Total Pelvis Force on Impact Side (Y) vs. Time	B-3

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

Additional Driver Dummy Instrumentation Data

Driver Head CG Redundant Acceleration (X) vs. Time
 Driver Head CG Redundant Acceleration (Y) vs. Time
 Driver Head CG Redundant Acceleration (Z) vs. Time
 Driver Head Angular Velocity X (Deg/Sec) vs. Time
 Driver Head Angular Velocity Y (Deg/Sec) vs. Time
 Driver Head Angular Velocity Z (Deg/Sec) vs. Time
 Driver Upper Thorax Rib Deflection (Y)
 Driver Middle Thorax Rib Deflection (Y)
 Driver Lower Thorax Rib Deflection (Y)
 Driver Upper Abdomen Rib Deflection (Y)
 Driver Lower Abdomen Rib Deflection (Y)

Vehicle Instrumentation Data

Vehicle Center of Gravity Acceleration (X)

Vehicle Center of Gravity Acceleration (Y)

Vehicle Center of Gravity Acceleration (Z)

Left Floor Sill Acceleration (Y)

Left A-Pillar Sill Acceleration (Y)

Left Lower A-Pillar Acceleration (Y)

Left Mid A-Pillar Acceleration (Y)

Left B-Pillar Sill Acceleration (Y)

Left Lower B-Pillar Acceleration (Y)

Left Mid B-Pillar Acceleration (Y)

Driver Seat Track at Dummy Hip Point Acceleration (Y)

Engine Top Acceleration (X)

Engine Top Acceleration (Y)

Firewall Center Acceleration (Y)

Right Roof at Vertical Impact Reference Line Acceleration (Y)

Right Sill at Vertical Impact Reference Line Acceleration (Y)

Rear Floorpan Behind Rear Axle at Centerline Acceleration (X)

Rear Floorpan Behind Rear Axle at Centerline Acceleration (Y)

Pole Instrumentation Data

Load Cell Pole Barrier #1 Force (Y)

Load Cell Pole Barrier #2 Force (Y)

Load Cell Pole Barrier #3 Force (Y)

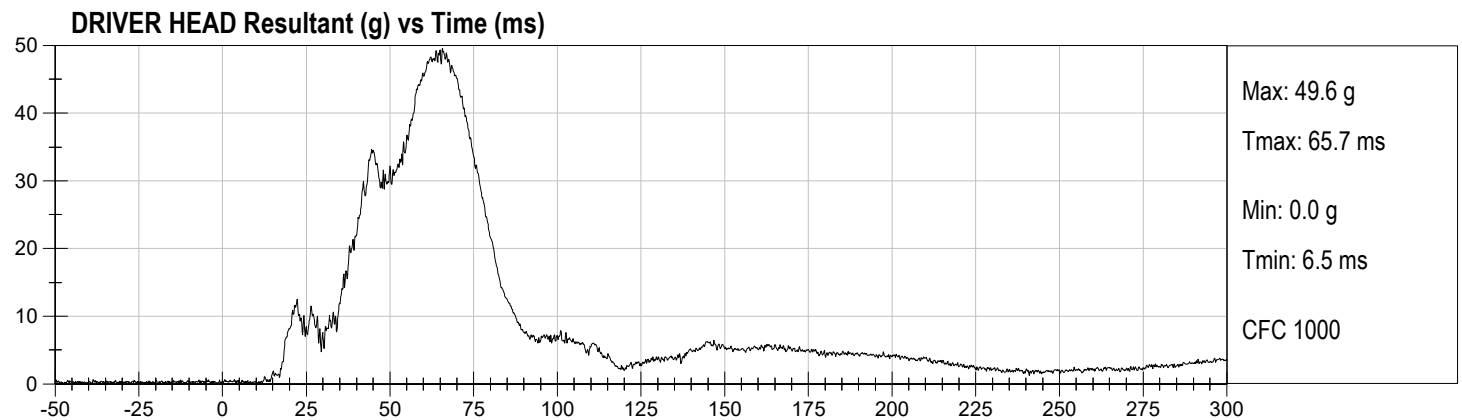
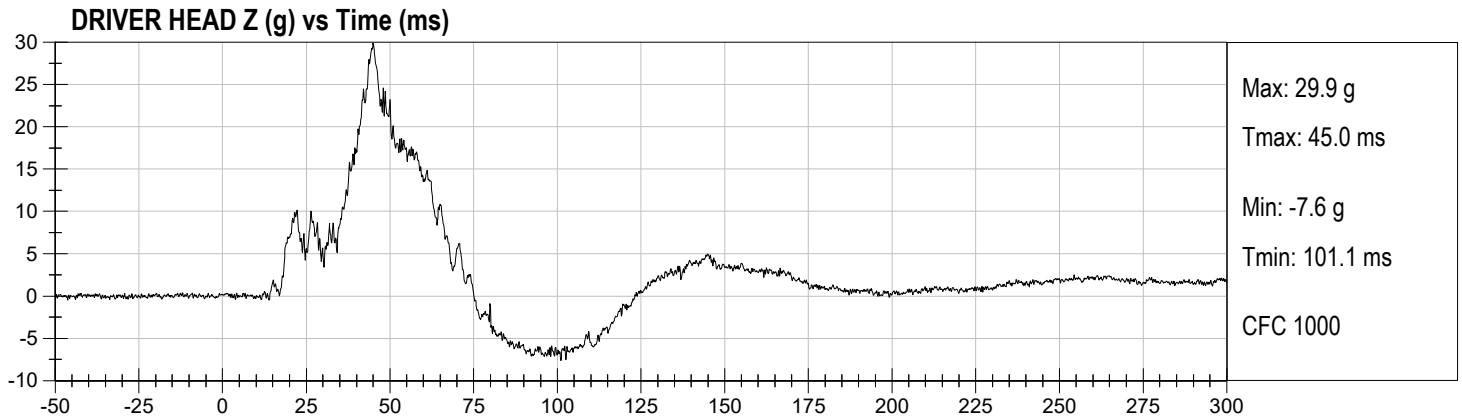
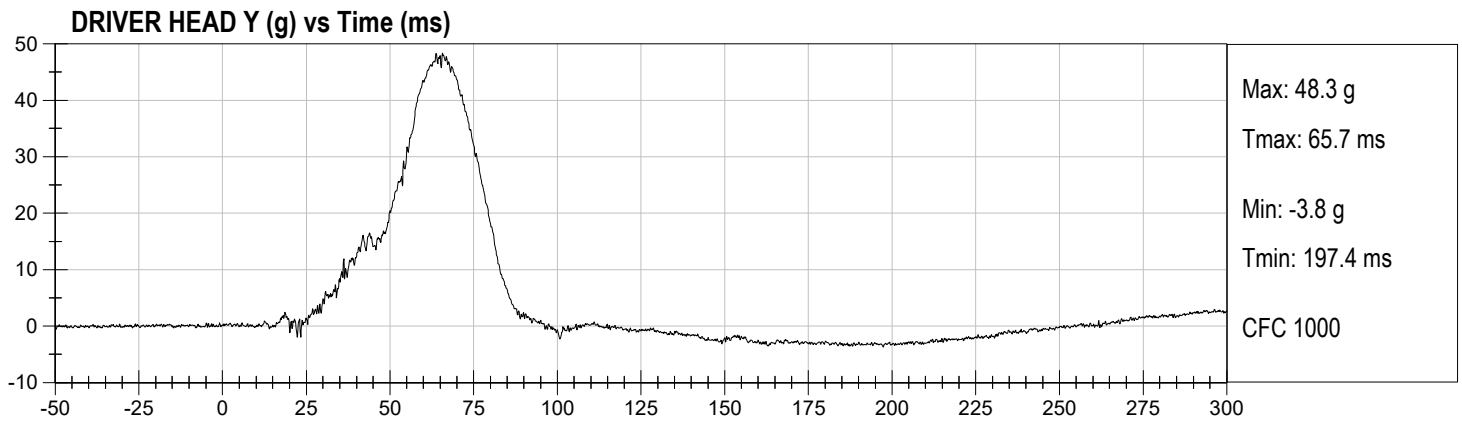
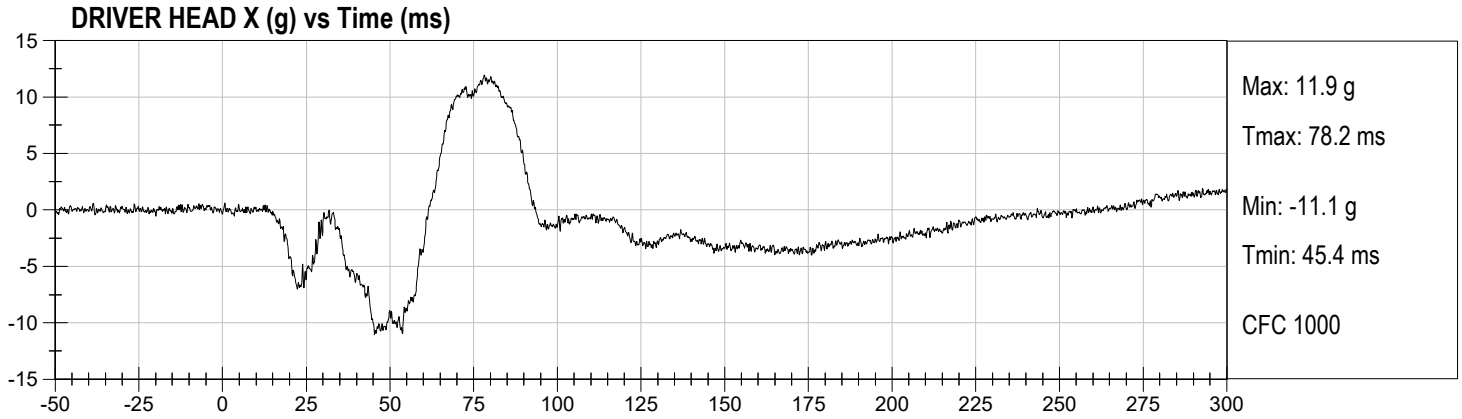
Load Cell Pole Barrier #4 Force (Y)

Load Cell Pole Barrier #5 Force (Y)

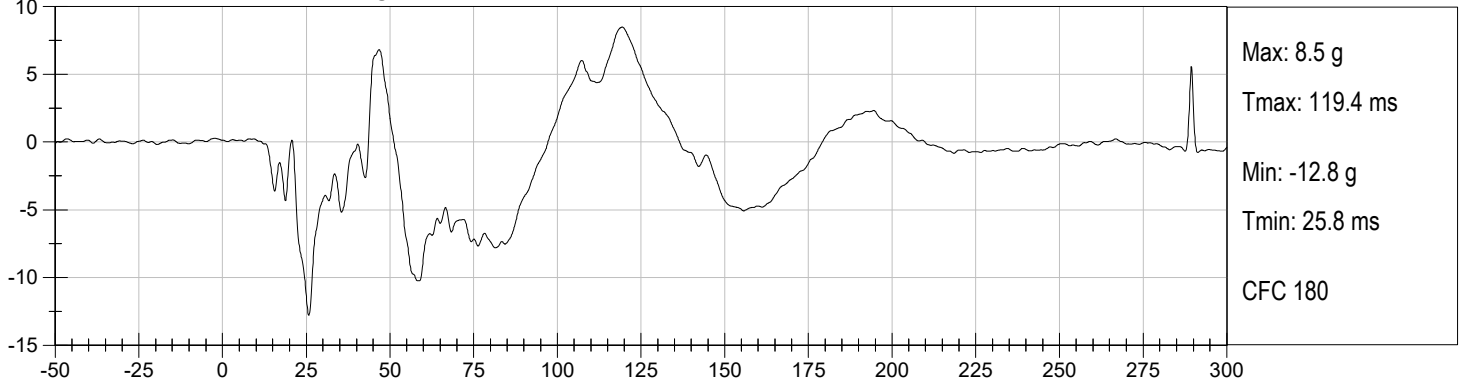
Load Cell Pole Barrier #6 Force (Y)

Load Cell Pole Barrier #7 Force (Y)

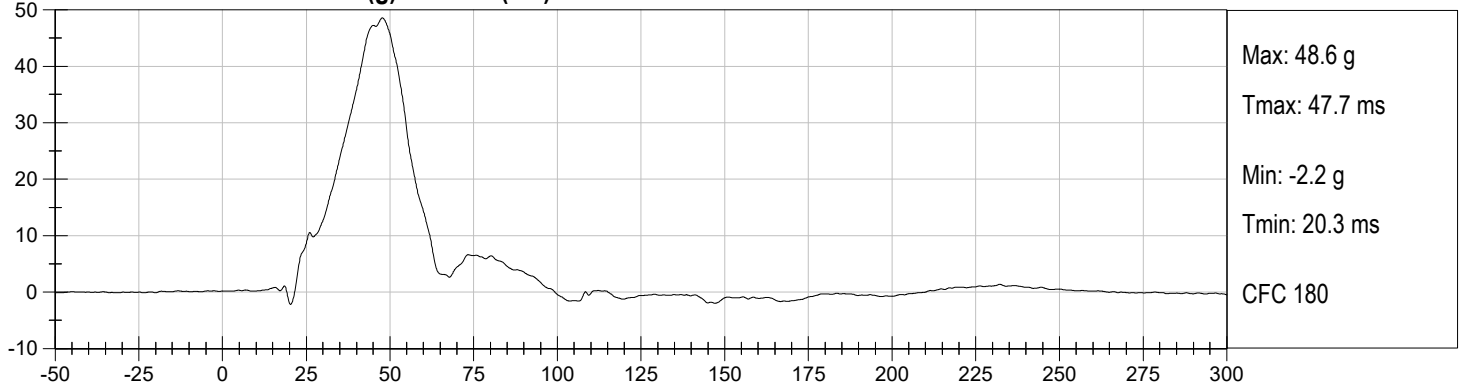
Load Cell Pole Barrier #8 Force (Y)



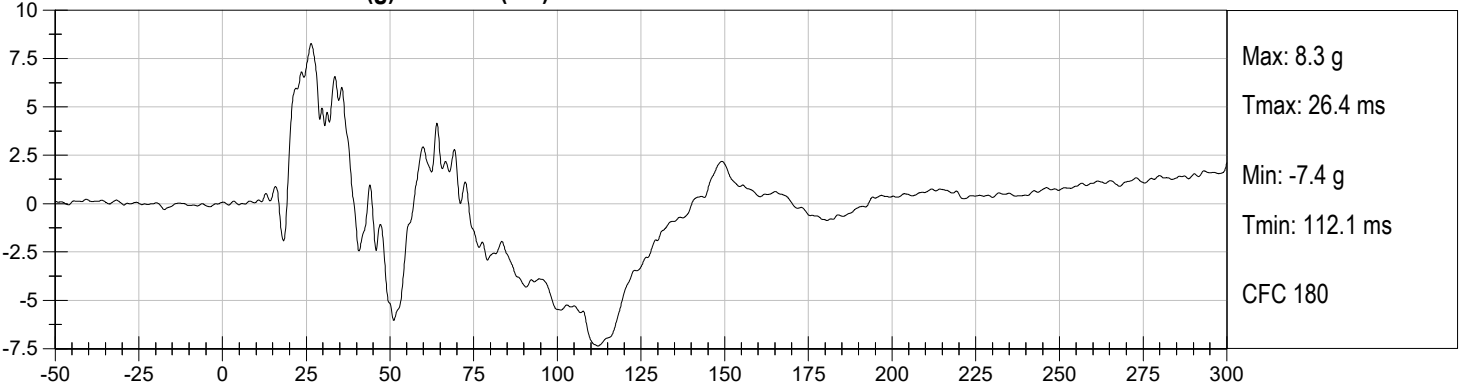
DRIVER LOWER SPINE X (g) vs Time (ms)



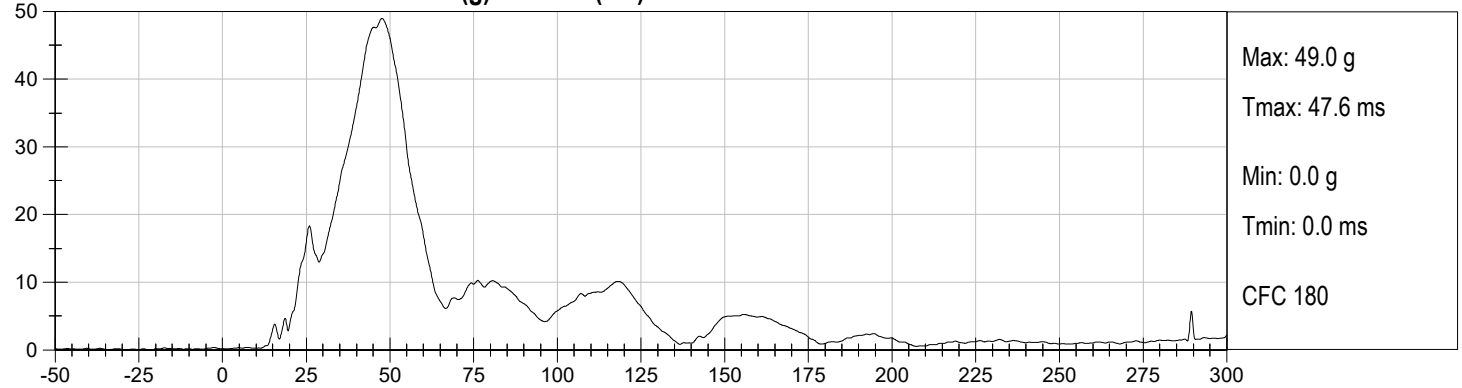
DRIVER LOWER SPINE Y (g) vs Time (ms)



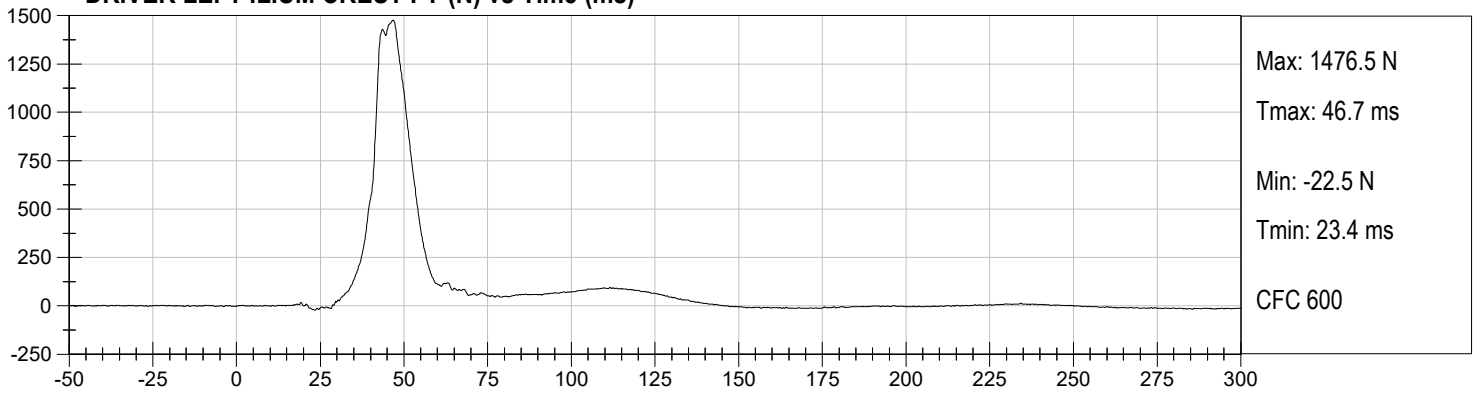
DRIVER LOWER SPINE Z (g) vs Time (ms)



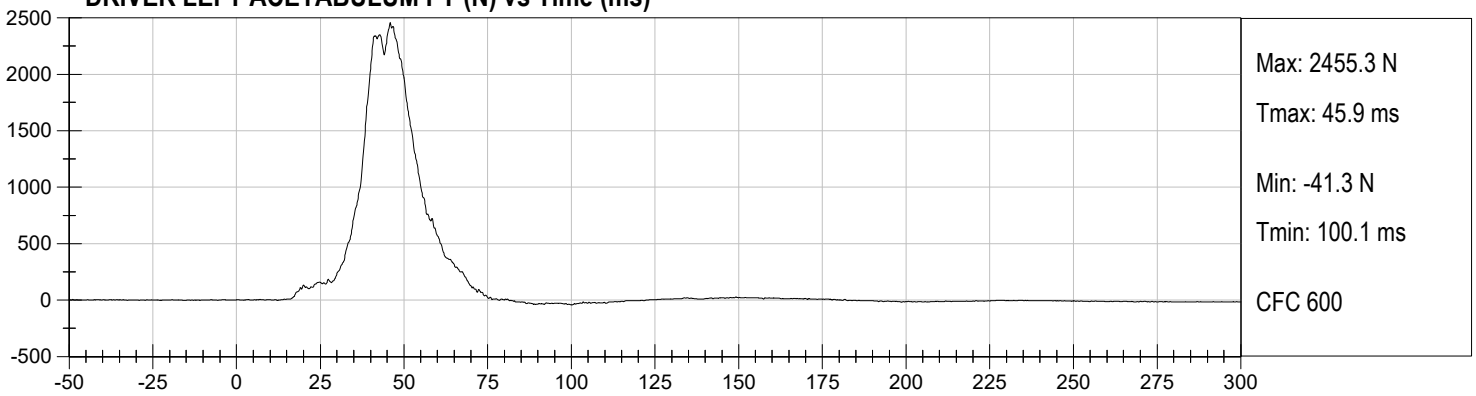
DRIVER LOWER SPINE Resultant (g) vs Time (ms)



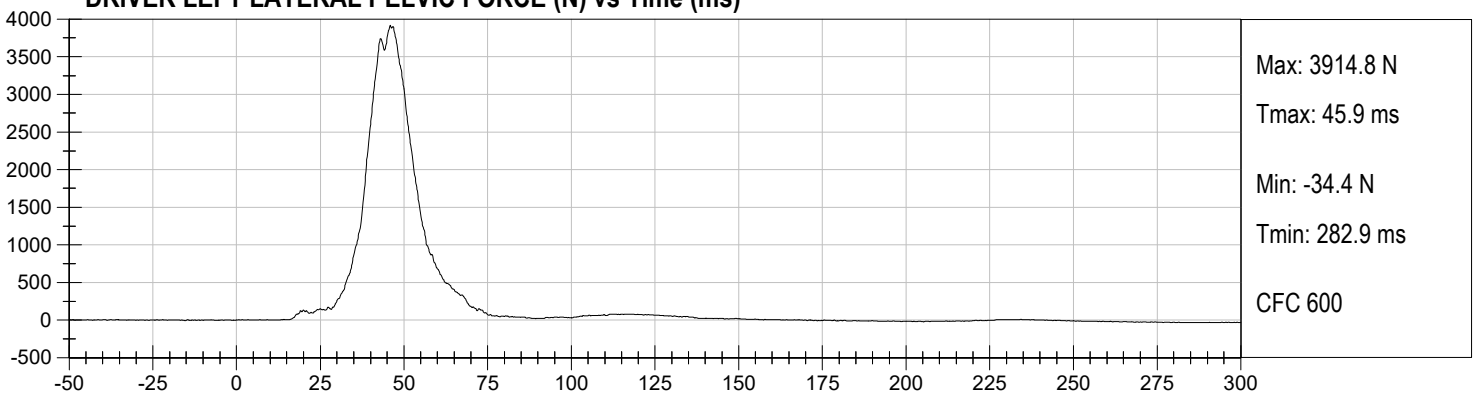
DRIVER LEFT ILIUM CREST FY (N) vs Time (ms)



DRIVER LEFT ACETABULUM FY (N) vs Time (ms)



DRIVER LEFT LATERAL PELVIC FORCE (N) vs Time (ms)



APPENDIX C
DUMMY QUALIFICATION AND PERFORMANCE VERIFICATION

QUALIFICATION TEST RESULTS

PRE-TEST

SID-IIS 5TH PERCENTILE FEMALE - DRIVER ATD

SID-IIsD External Measurements
SN: 296

No.	Name	Spec. (mm)	Result	Pass/Fail
A	Sitting Height	772 - 788	784	Pass
B	Shoulder Pivot Height	437 - 453	442	Pass
C	H-point Height	79 - 89	83	Pass
D	H-point from Seatback	141 - 151	145	Pass
E	Shoulder Pivot from Backline	97 - 107	99	Pass
F	Thigh Clearance	119 - 135	121	Pass
G	Head Breadth	140 - 148	142	Pass
H	Head Back from Backline	40 - 46	45	Pass
I	Head Depth	178 - 188	180	Pass
J	Head Circumference	541 - 551	548	Pass
K	Buttock to Knee Length	514 - 540	535	Pass
L	Popliteal Height	343 - 369	358	Pass
M	Knee Pivot to Floor Height	392 - 409	404	Pass
N	Buttock Popliteal Length	416 - 442	435	Pass
O	Chest Depth w/o Jacket	195 - 211	206	Pass
P	Foot Length	216 - 232	219	Pass
Q	Hip Breadth (w/ pelvic plugs)	313 - 323	316	Pass
R	Arm Length	249 - 259	250	Pass
S	Knee Joint to Seatback	477 - 493	481	Pass
V	Shoulder Width	341 - 357	346	Pass
W	Foot Width	78 - 94	85	Pass
Y	Chest Circumference w/ jacket	851 - 881	870	Pass
Z	Waist Circumference	761 - 791	772	Pass

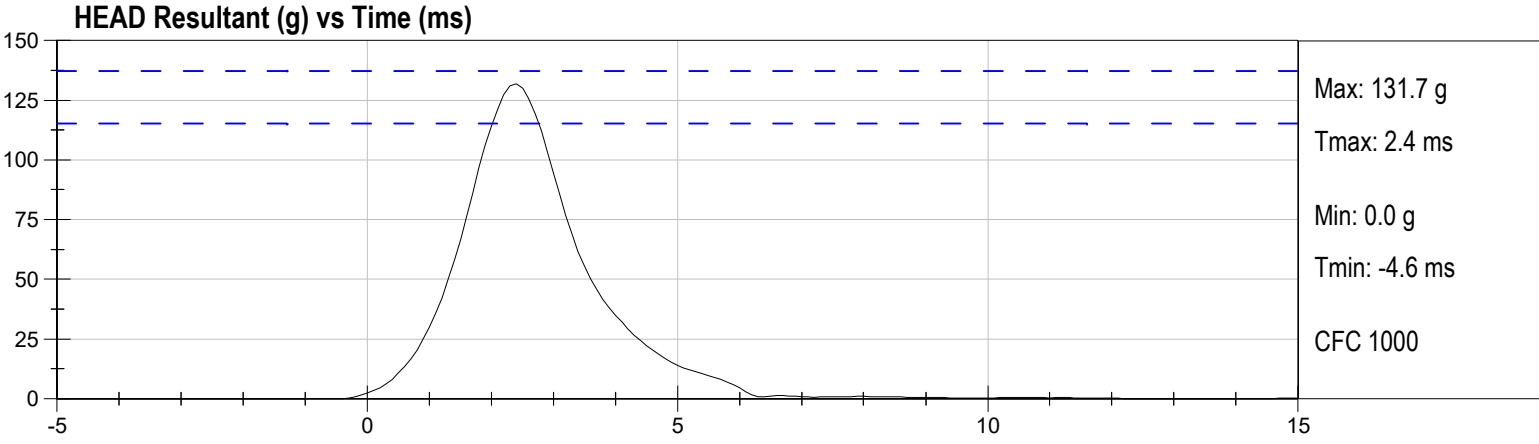
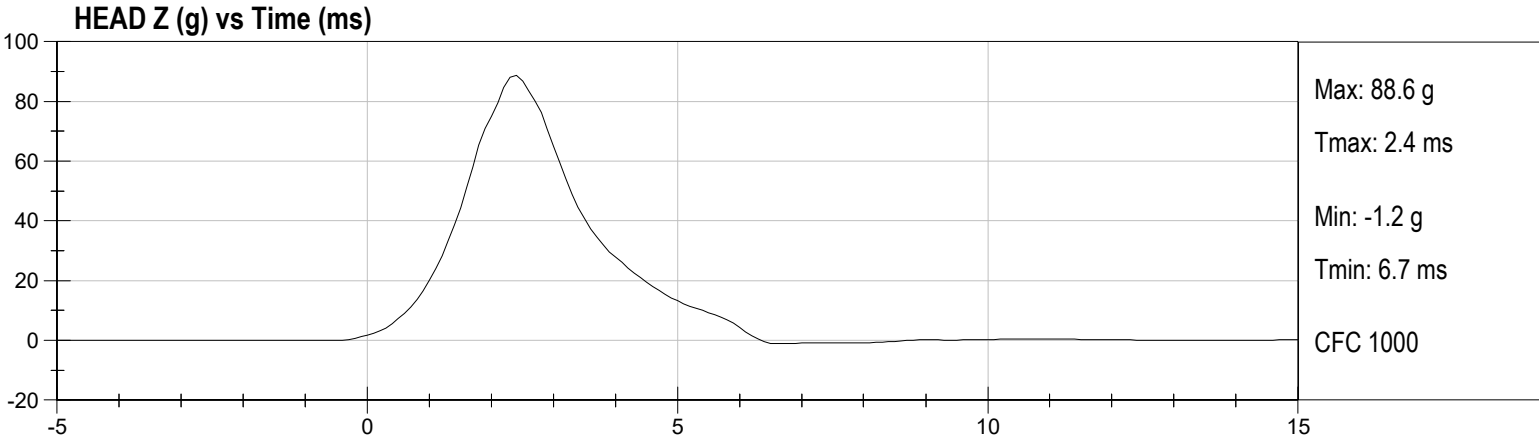
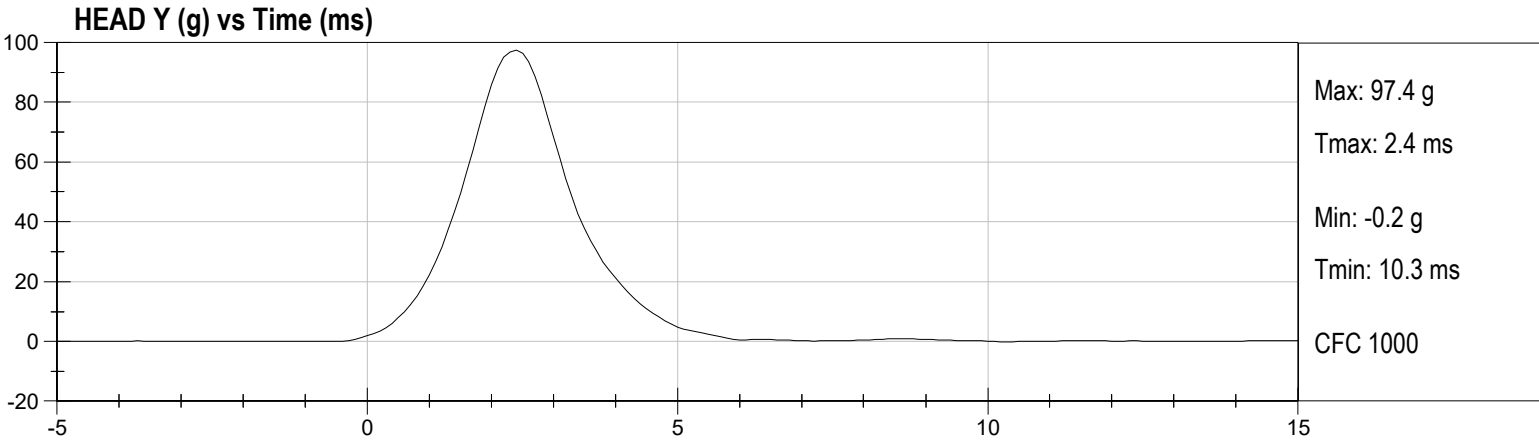
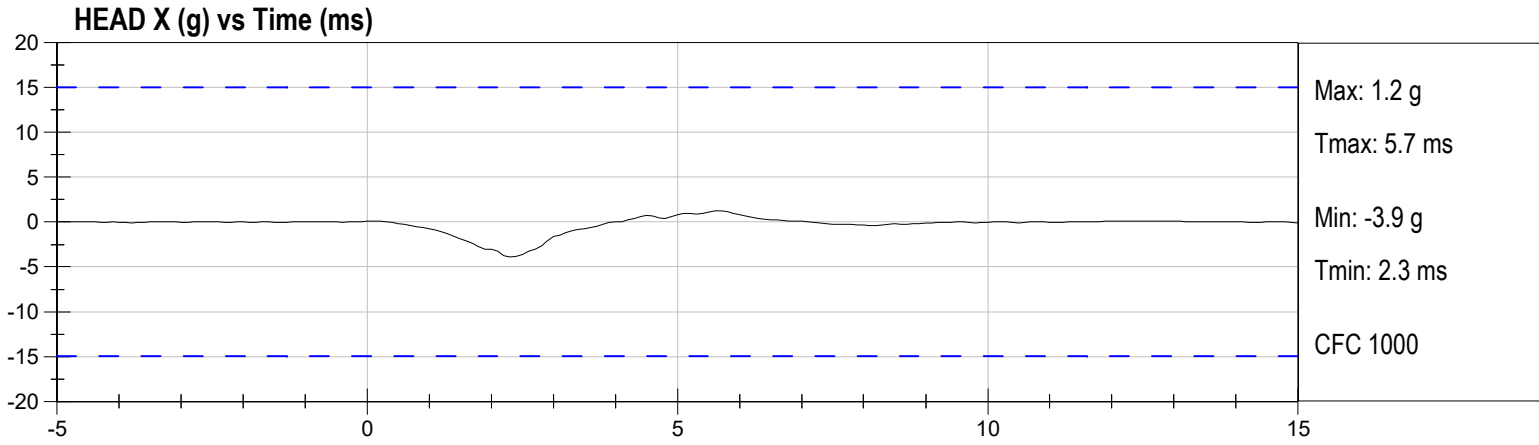


Lateral Head Drop Test
SID IIs
ATD Serial No: 296

Test Date: 08/06/2025
Test ID: D252271
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	20.9	Pass
Laboratory Relative Humidity	%	10 to 70	44	Pass
Peak Resultant Acceleration	g	115 to 137	132	Pass
Peak Longitudinal Acceleration	g	-15.0 to 15.0	-3.9	Pass
Unimodal	%	within 15% of peak	1	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
HEAD Y	Endevco	T30974	05/27/2025	11/26/2025
HEAD X	Endevco	T30975	05/27/2025	11/26/2025
HEAD Z	Endevco	T30976	05/27/2025	11/26/2025

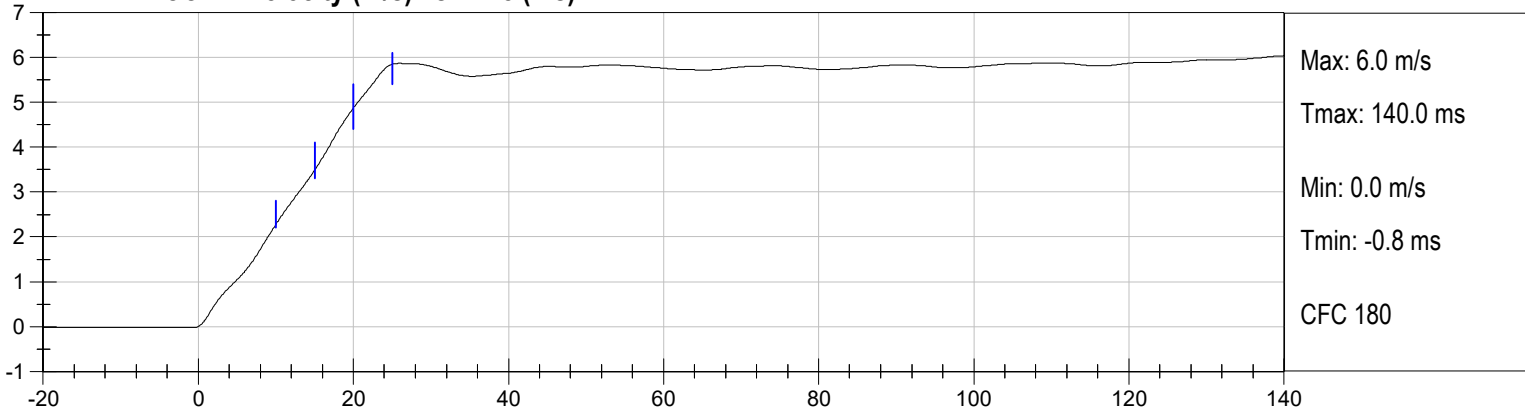




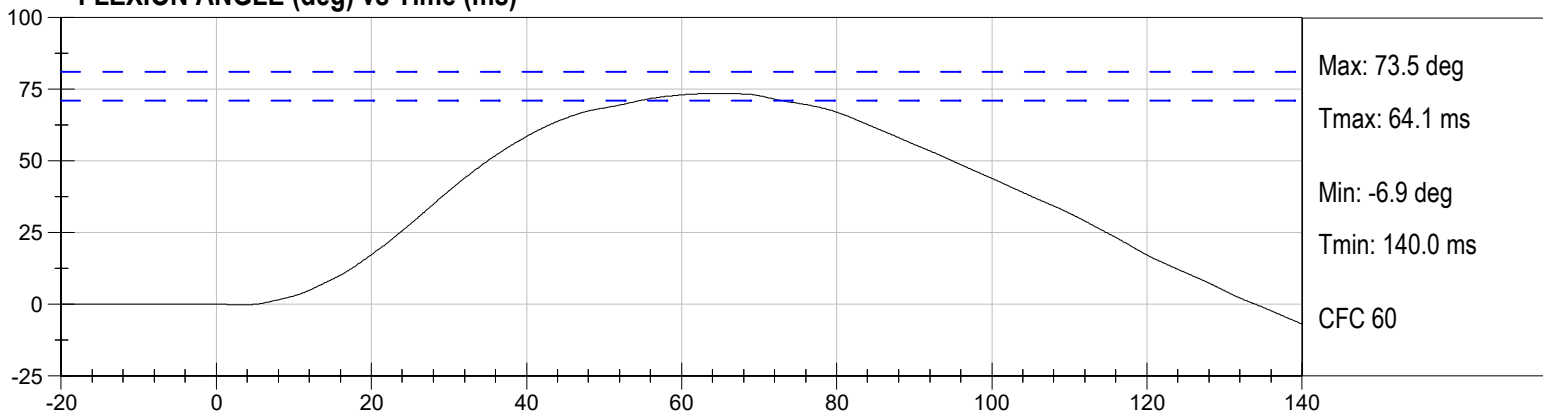
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Impact Velocity	m/s	5.51 to 5.63	5.52	Pass
Pendulum Velocity at 10 ms	m/s	2.20 to 2.80	2.25	Pass
Pendulum Velocity at 15 ms	m/s	3.30 to 4.10	3.46	Pass
Pendulum Velocity at 20 ms	m/s	4.40 to 5.40	4.85	Pass
Pendulum Velocity at 25 ms	m/s	5.40 to 6.10	5.84	Pass
Peak Pendulum Velocity from 25 to 100 ms	m/s	5.50 to 6.20	5.87	Pass
Maximum "D" Plane Rotation	deg	71 to 81	73	Pass
Time of Maximum "D" Plane Rotation	ms	50 to 70	64	Pass
Maximum Moment About Occipital Condyle	Nm	-44 to -36	-39	Pass
Time of Moment Decay Time To 0 Nm	ms	102 to 126	113	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
NECK FORCE Y	Denton	N1021FY	02/19/2025	2/19/2026
NECK MOMENT X	Denton	N1021MX	02/19/2025	2/19/2026
POT. A - FRONT	Servo	2732	07/16/2025	1/15/2026
POT. C - HEADFORM	Servo	2204	07/16/2025	1/15/2026

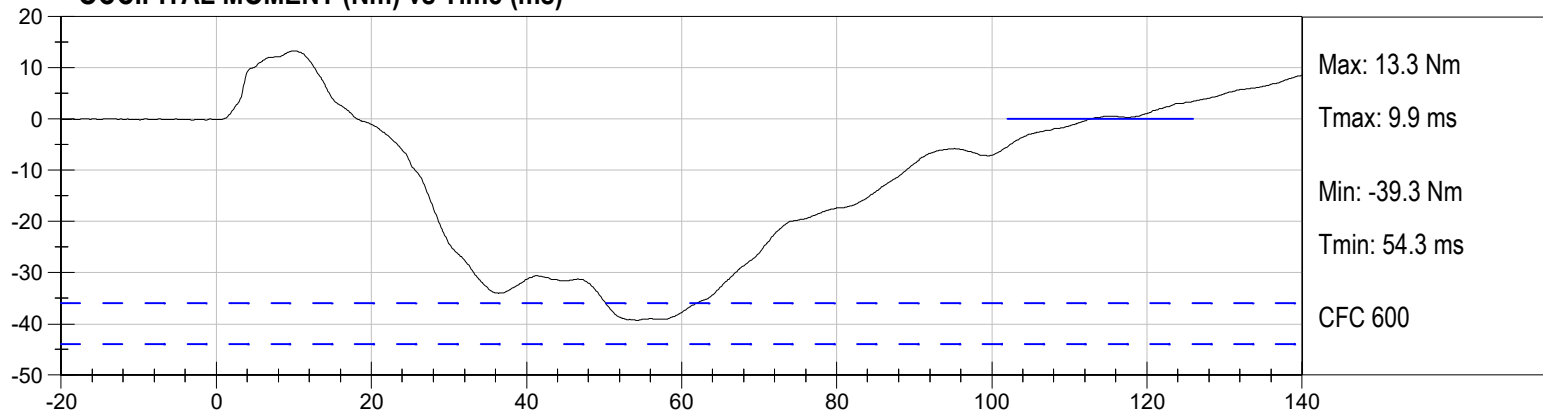
PEND. ACCEL. Velocity (m/s) vs Time (ms)



FLEXION ANGLE (deg) vs Time (ms)



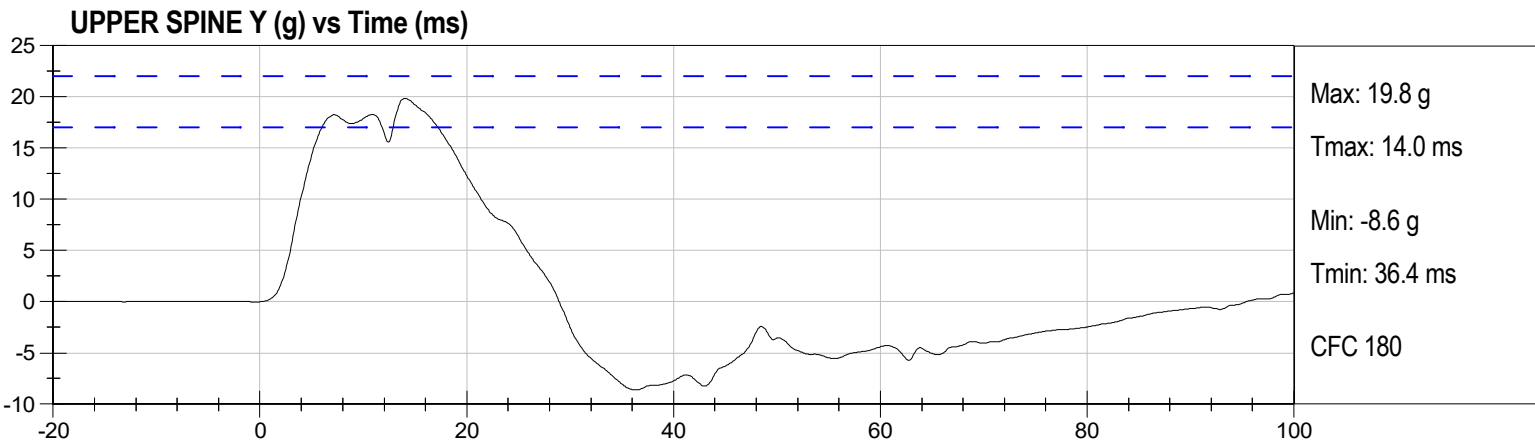
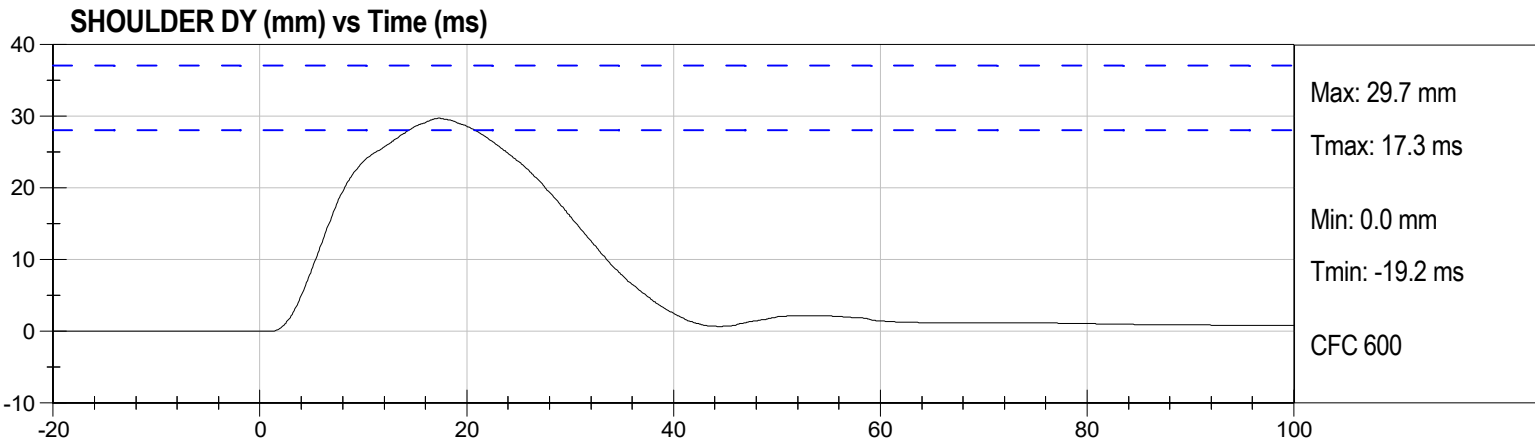
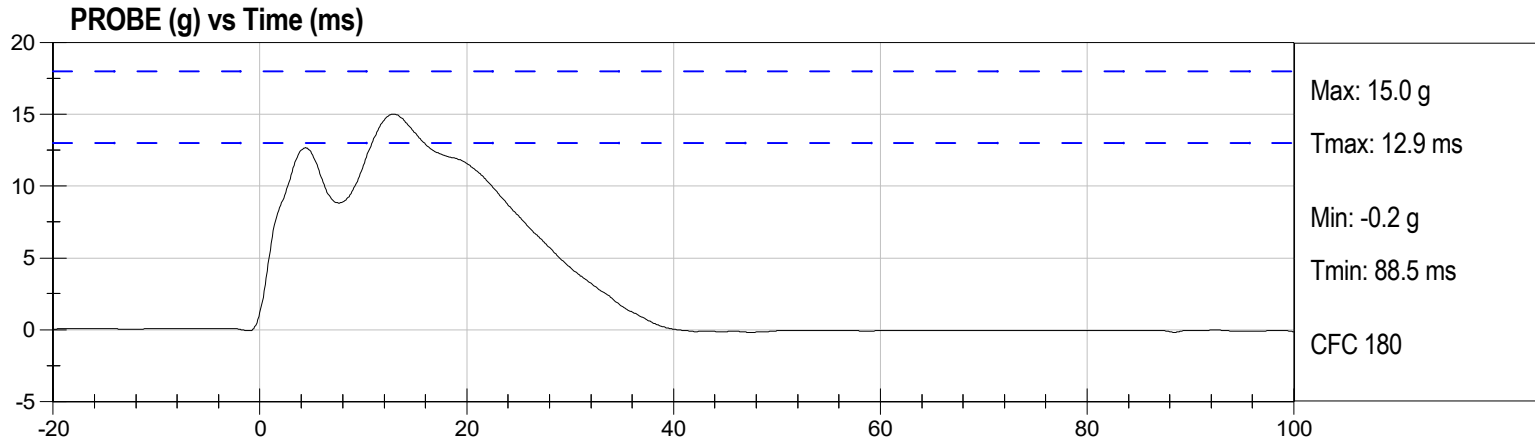
OCCIPITAL MOMENT (Nm) vs Time (ms)





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	45	Pass
Impact Velocity	m/s	4.2 to 4.4	4.31	Pass
Peak Probe Acceleration	g	13 to 18	15	Pass
Shoulder Displacement	mm	28 to 37	30	Pass
Upper Spine (T1) Y Acceleration	g	17 to 22	20	Pass

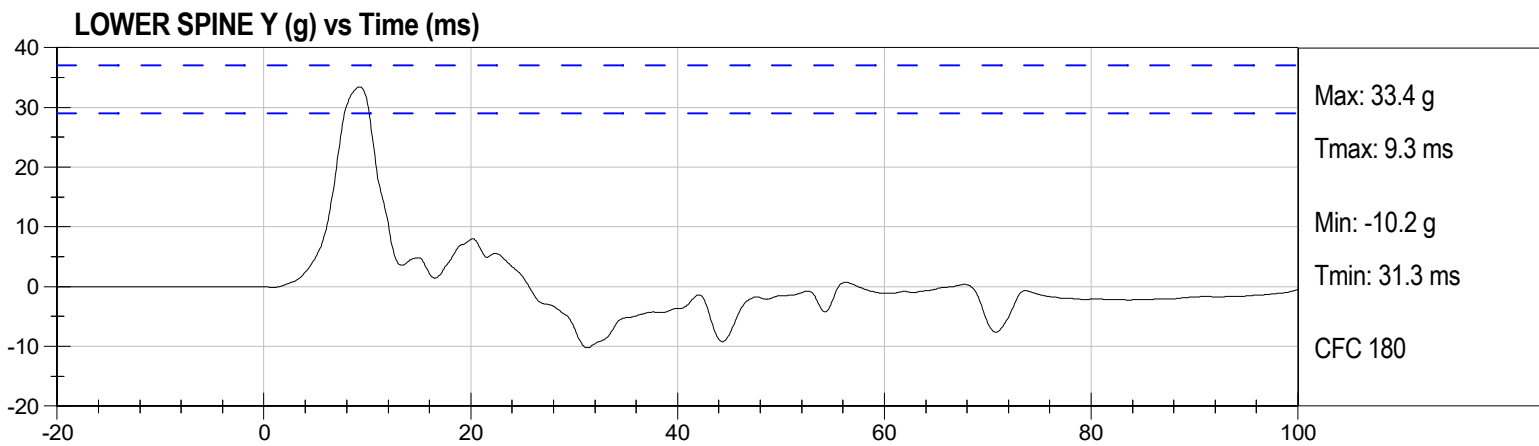
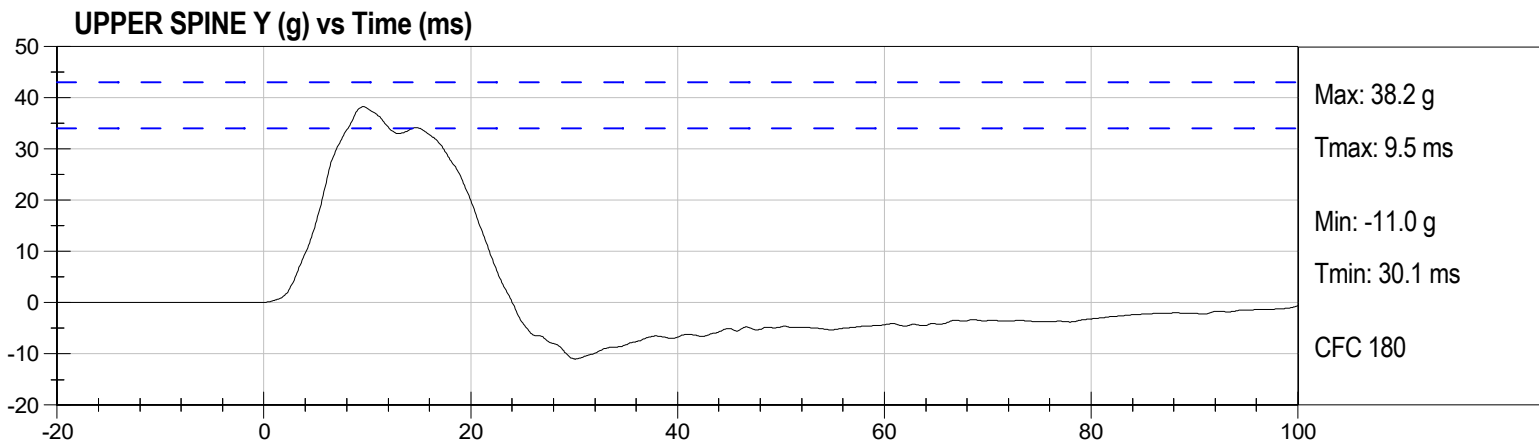
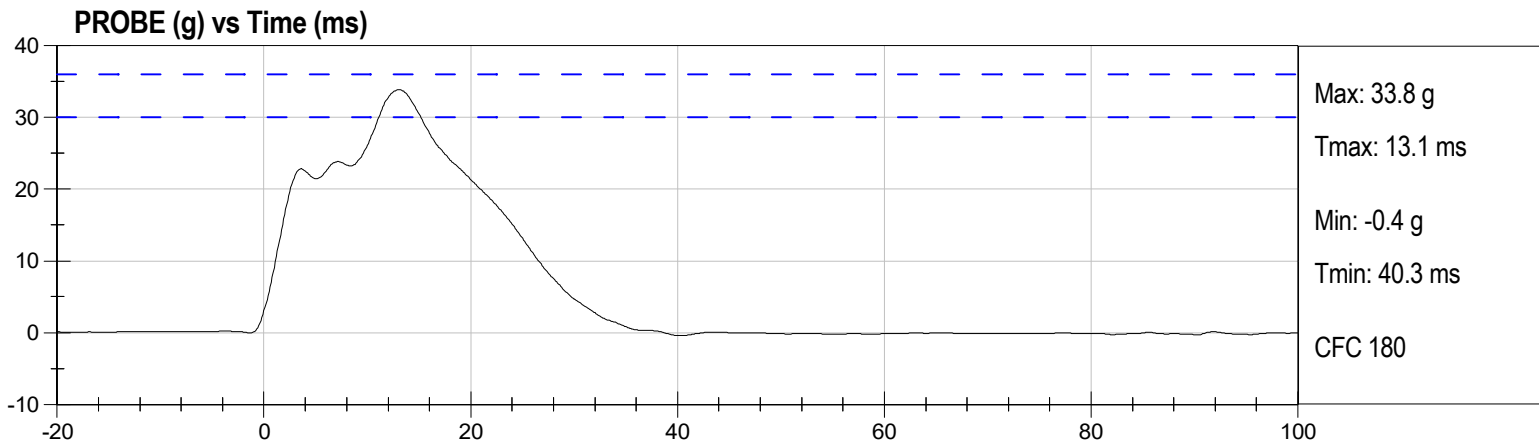
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P88675	05/29/2025	11/28/2025
SHOULDER DY	FTSS	G1223	05/27/2025	11/26/2025



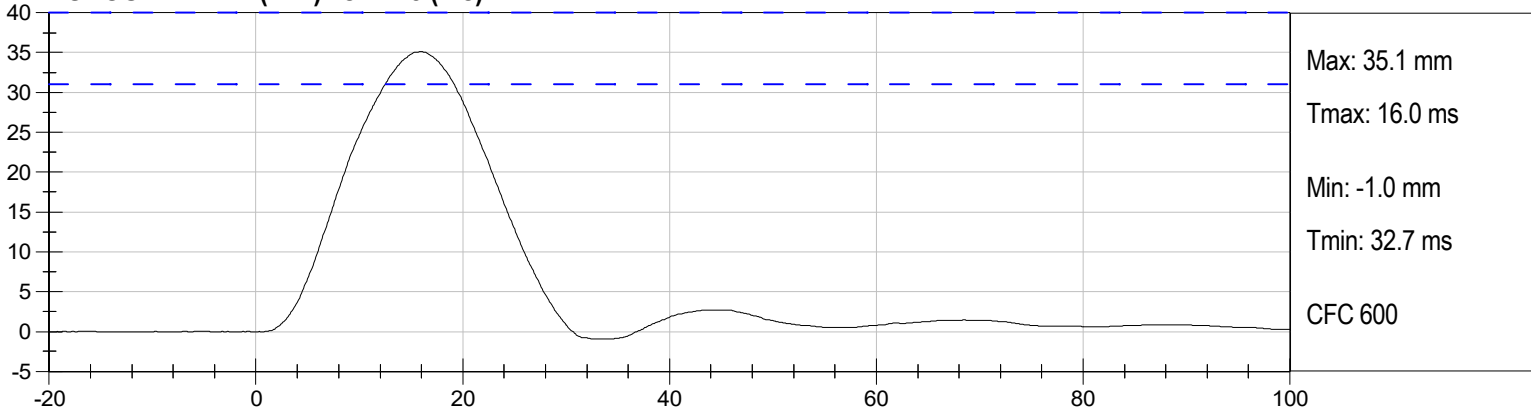


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.3	Pass
Laboratory Relative Humidity	%	10 to 70	44	Pass
Impact Velocity	m/s	6.6 to 6.8	6.77	Pass
Peak Probe Acceleration after 5 ms	g	30 to 36	34	Pass
Upper Spine (T1) Y Acceleration	g	34 to 43	38	Pass
Lower Spine (T12) Y Acceleration	g	29 to 37	33	Pass
Shoulder Displacement	mm	31 to 40	35	Pass
Upper Thorax Rib Displacement	mm	25 to 32	28	Pass
Middle Thorax Rib Displacement	mm	30 to 36	33	Pass
Lower Thorax Rib Displacement	mm	32 to 38	35	Pass

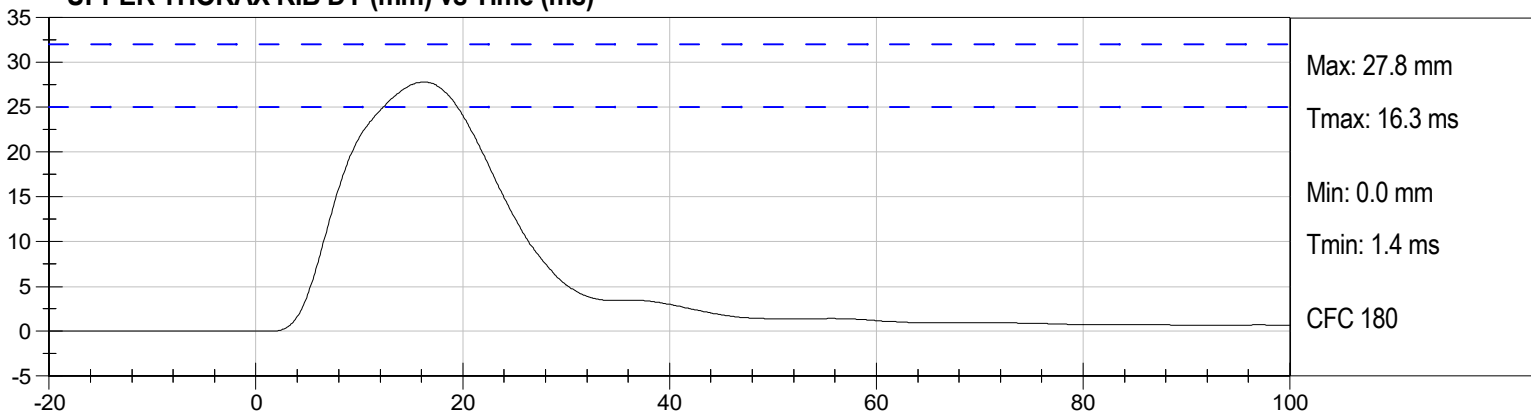
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P88675	05/29/2025	11/28/2025
LOWER SPINE Y	Endevco	P79439	05/29/2025	11/28/2025
SHOULDER DY	FTSS	G1223	05/27/2025	11/26/2025
UPPER THORAX RIB DY	Servo	G012	05/27/2025	11/26/2025
MID THORAX RIB DY	FTSS	G1163	05/27/2025	11/26/2025
LOWER THORAX RIB DY	FTSS	G1158	05/27/2025	11/26/2025



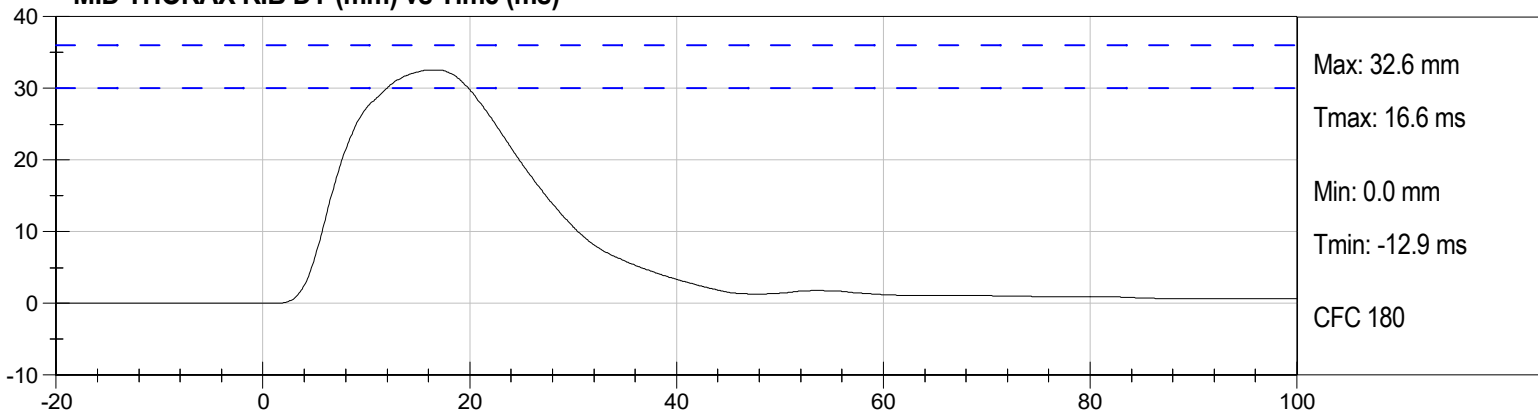
SHOULDER DY (mm) vs Time (ms)



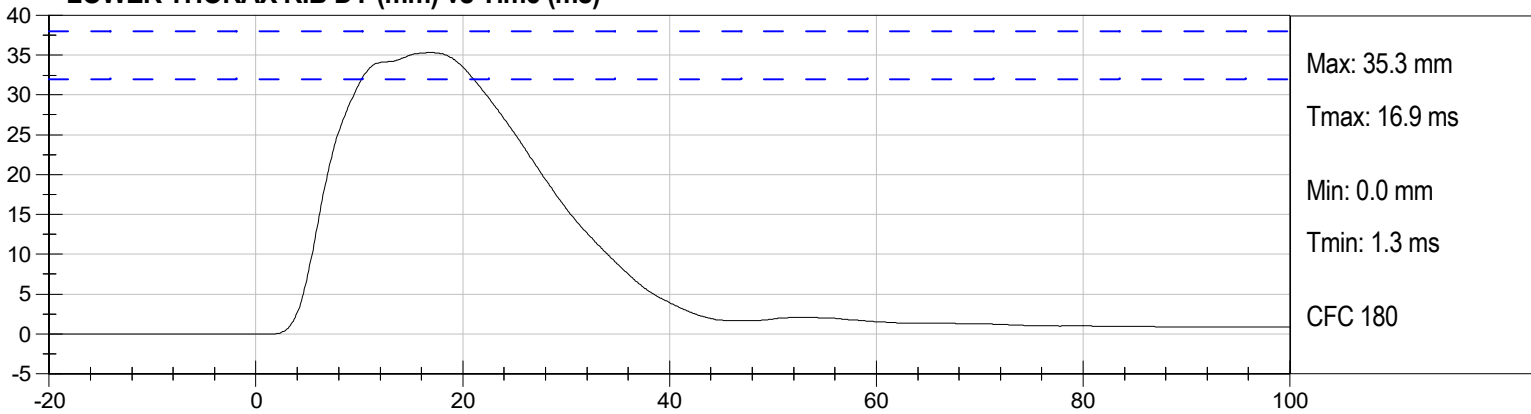
UPPER THORAX RIB DY (mm) vs Time (ms)



MID THORAX RIB DY (mm) vs Time (ms)



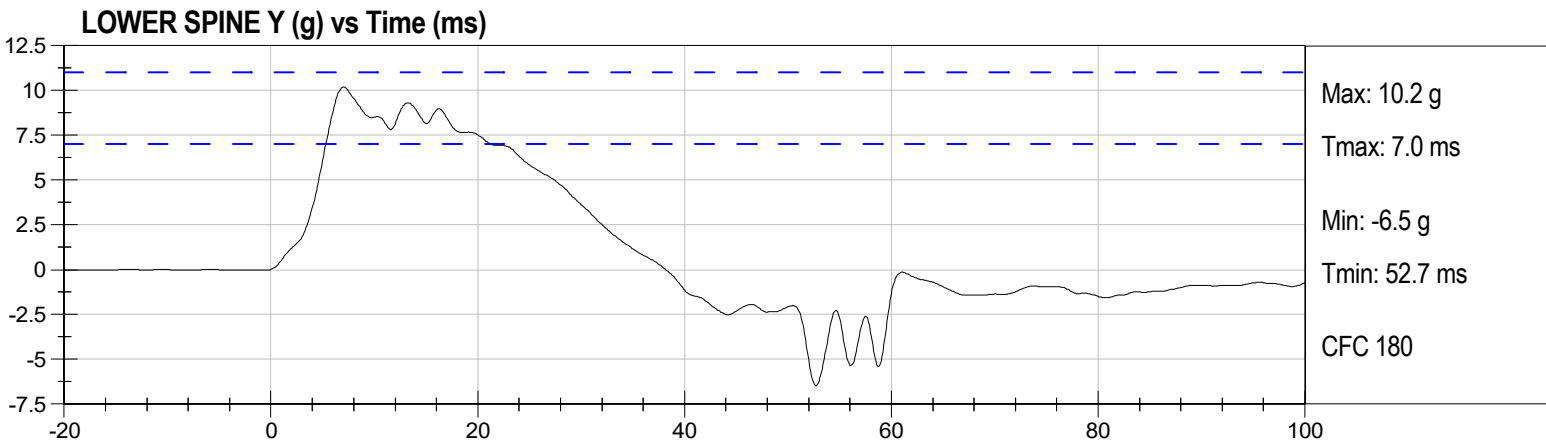
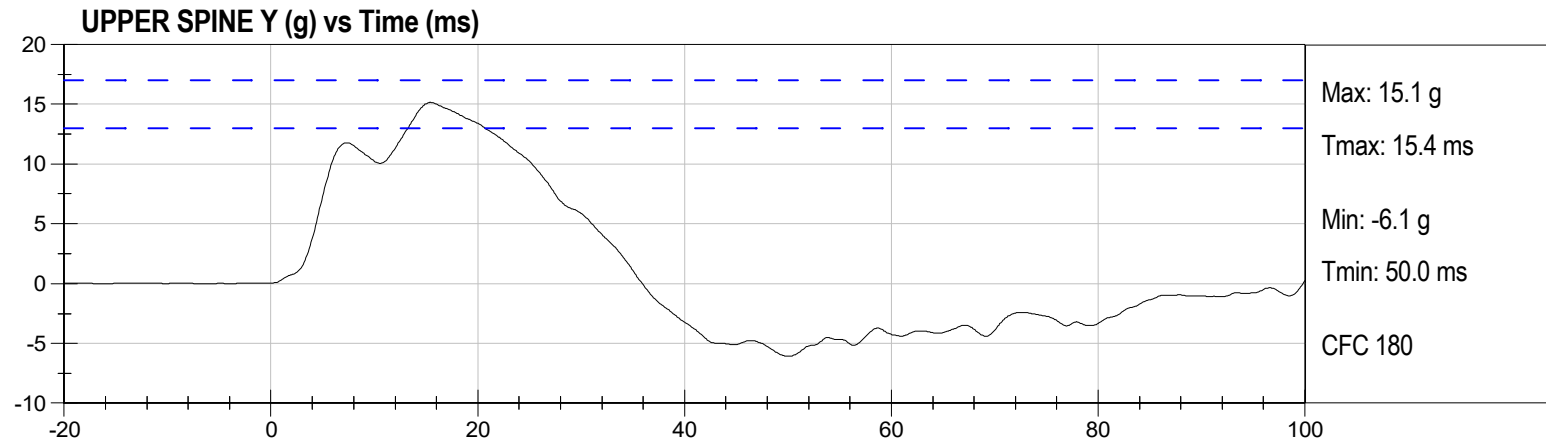
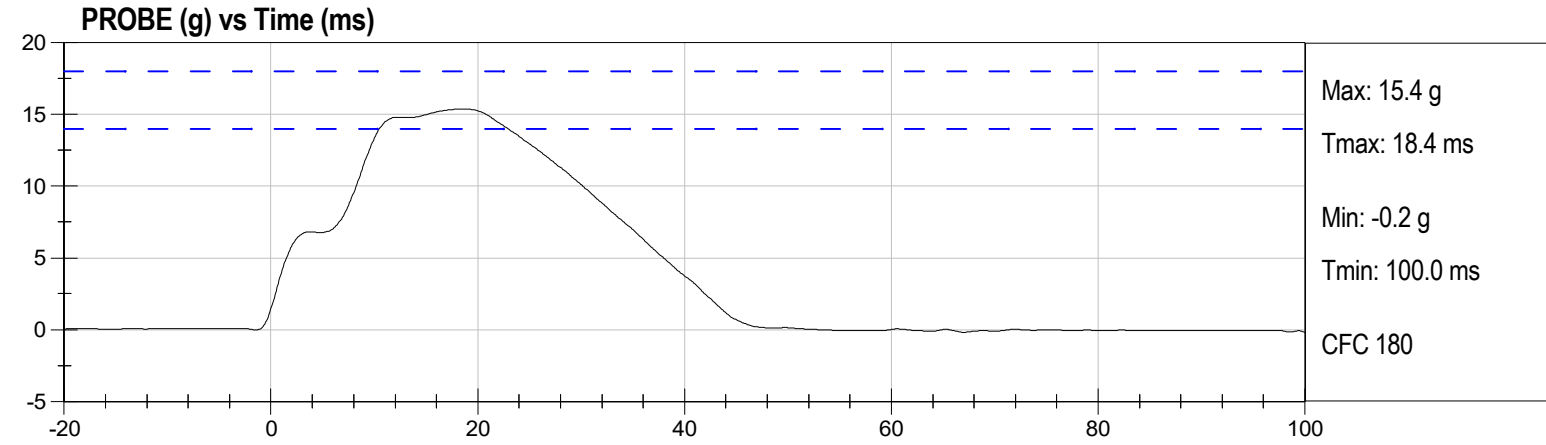
LOWER THORAX RIB DY (mm) vs Time (ms)



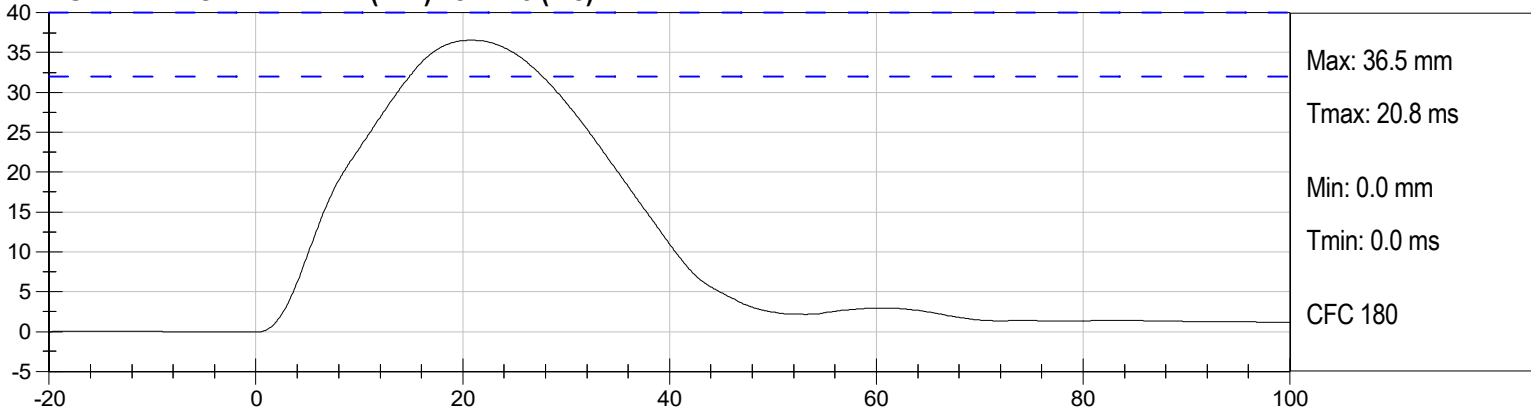


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	45	Pass
Impact Velocity	m/s	4.2 to 4.4	4.31	Pass
Peak Probe Acceleration	g	14 to 18	15	Pass
Upper Spine (T1) Y Acceleration	g	13 to 17	15	Pass
Lower Spine (T12) Y Acceleration	g	7 to 11	10	Pass
Upper Thorax Rib Displacement	mm	32 to 40	37	Pass
Middle Thorax Rib Displacement	mm	39 to 45	42	Pass
Lower Thorax Rib Displacement	mm	35 to 43	40	Pass

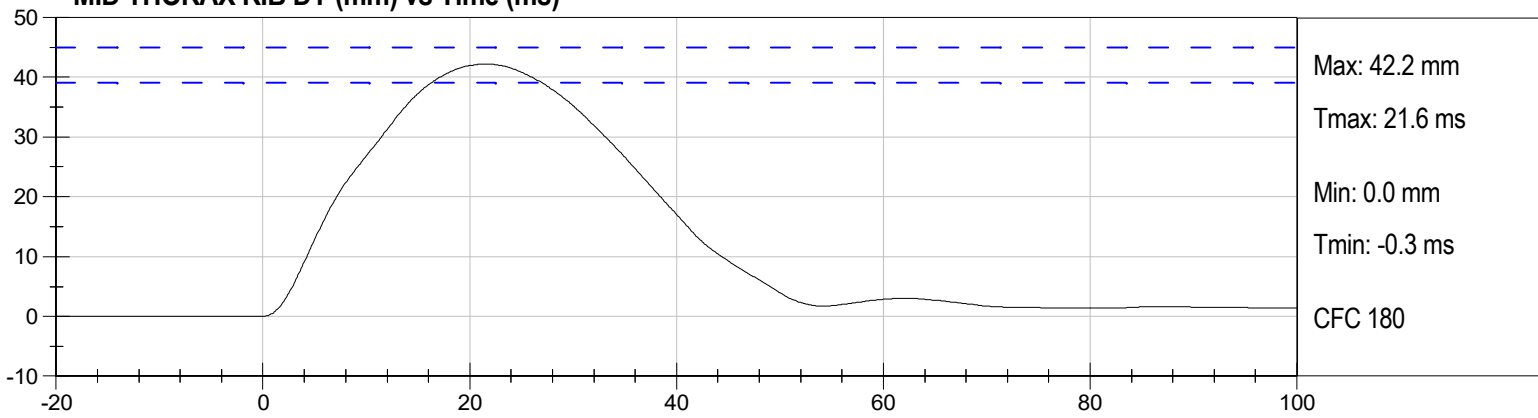
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P88675	05/29/2025	11/28/2025
LOWER SPINE Y	Endevco	P79439	05/29/2025	11/28/2025
UPPER THORAX RIB DY	Servo	G012	05/27/2025	11/26/2025
MID THORAX RIB DY	FTSS	G1163	05/27/2025	11/26/2025
LOWER THORAX RIB DY	FTSS	G1158	05/27/2025	11/26/2025



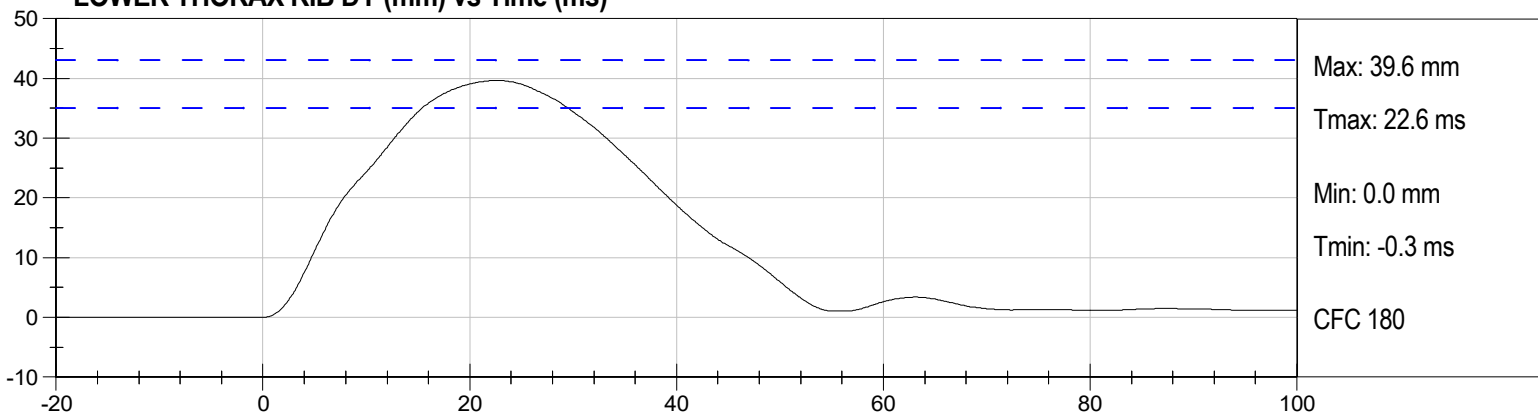
UPPER THORAX RIB DY (mm) vs Time (ms)



MID THORAX RIB DY (mm) vs Time (ms)



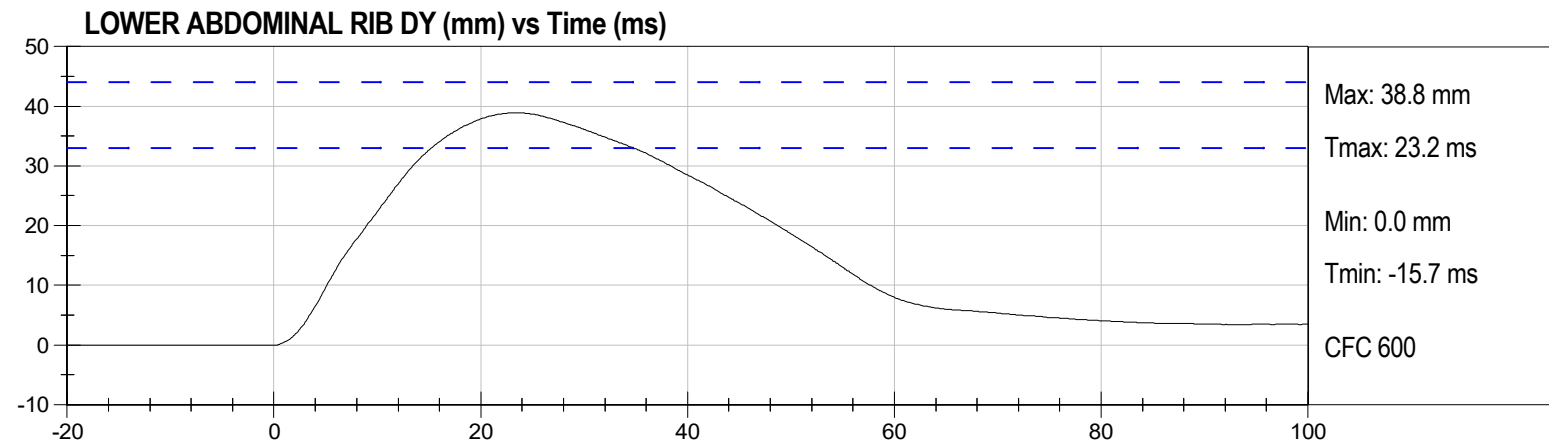
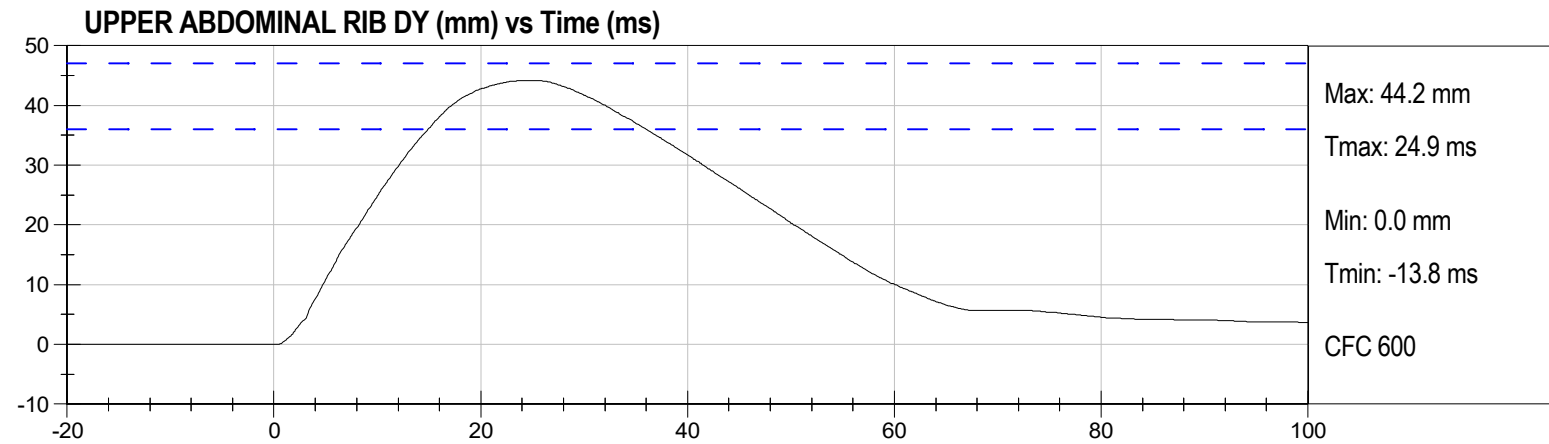
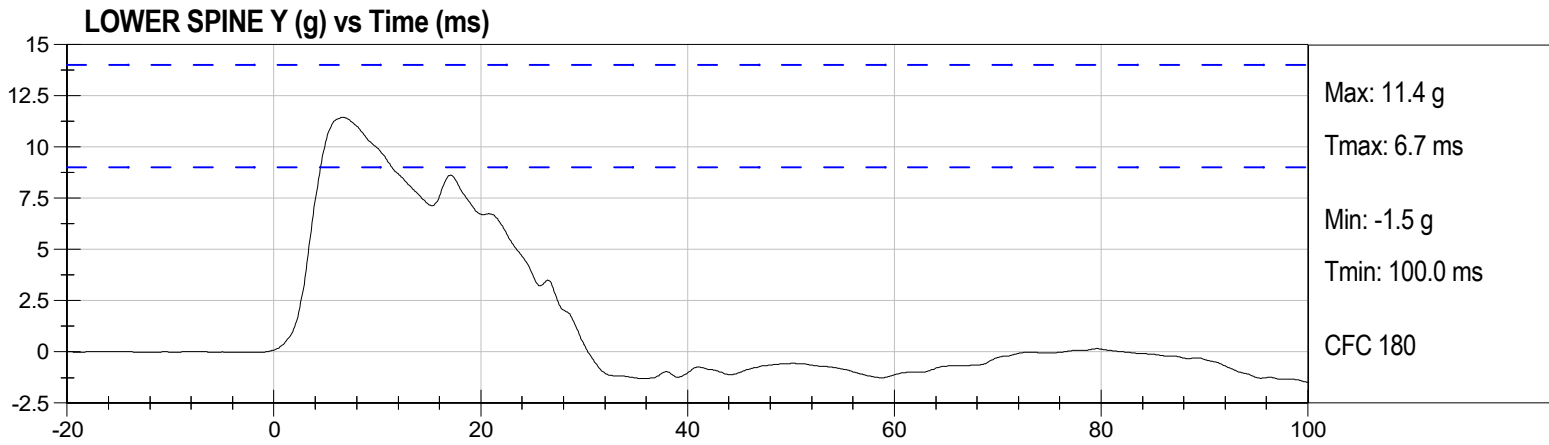
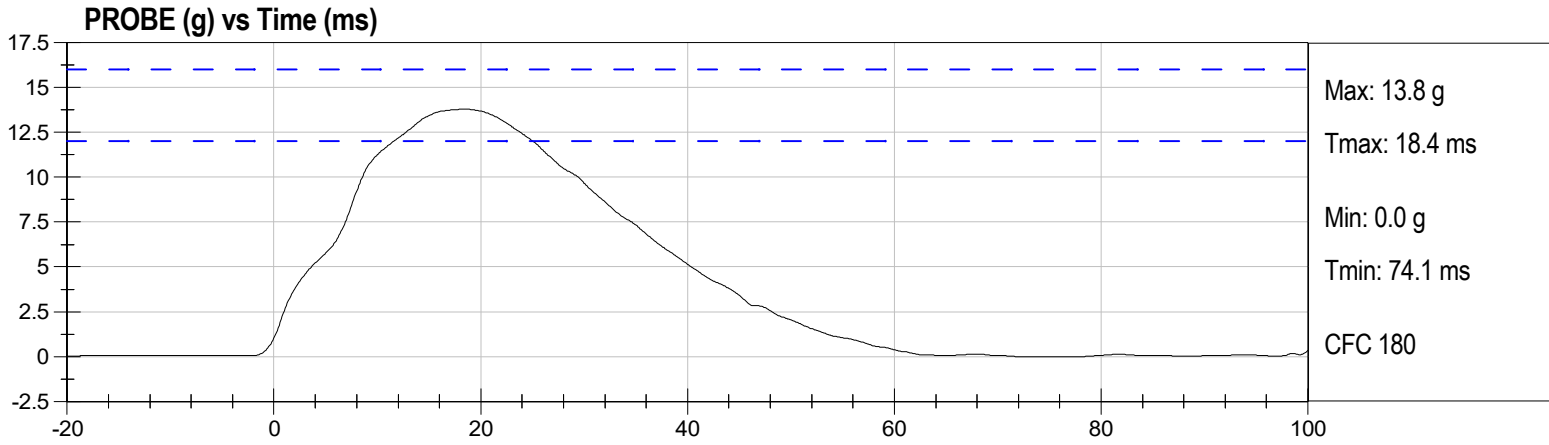
LOWER THORAX RIB DY (mm) vs Time (ms)





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	45	Pass
Impact Velocity	m/s	4.2 to 4.4	4.38	Pass
Peak Probe Acceleration	g	12 to 16	14	Pass
Lower Spine (T12) Y Acceleration	g	9 to 14	11	Pass
Upper Abdomen Rib Displacement	mm	36 to 47	44	Pass
Lower Abdomen Rib Displacement	mm	33 to 44	39	Pass

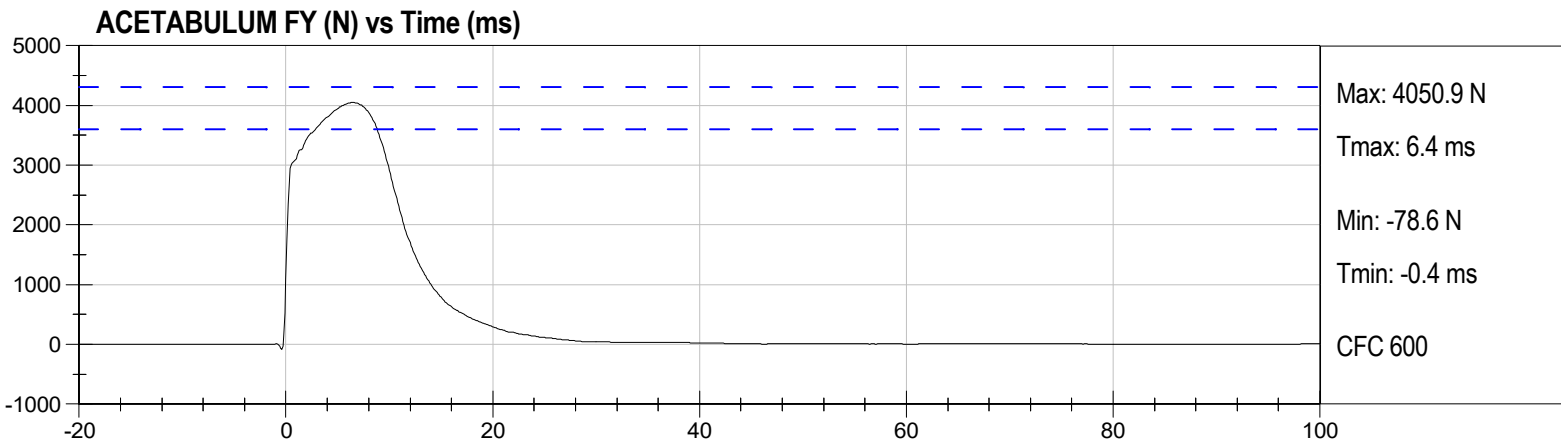
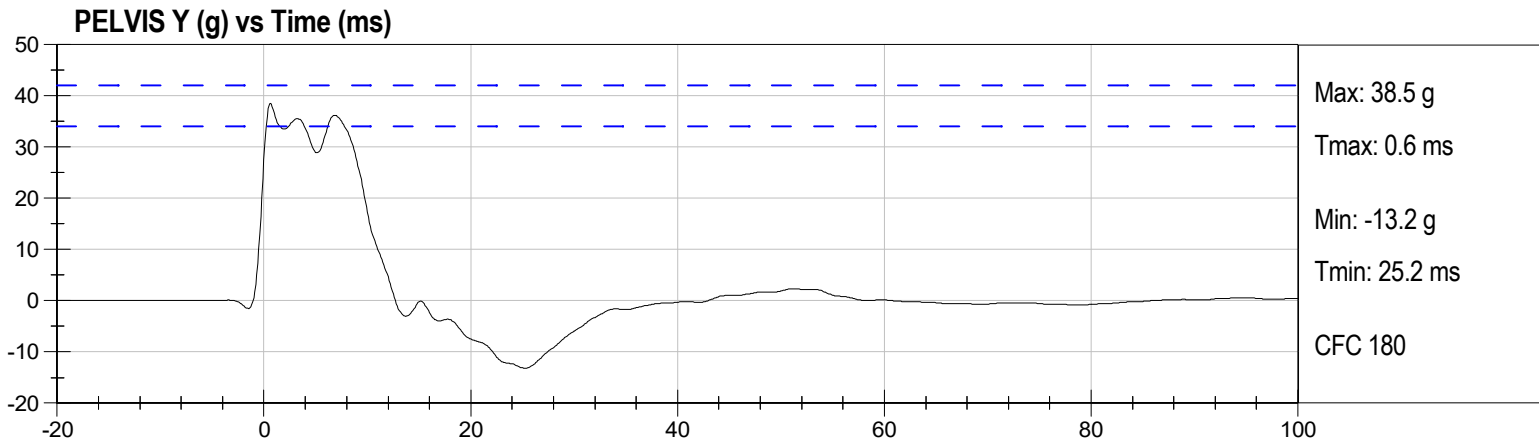
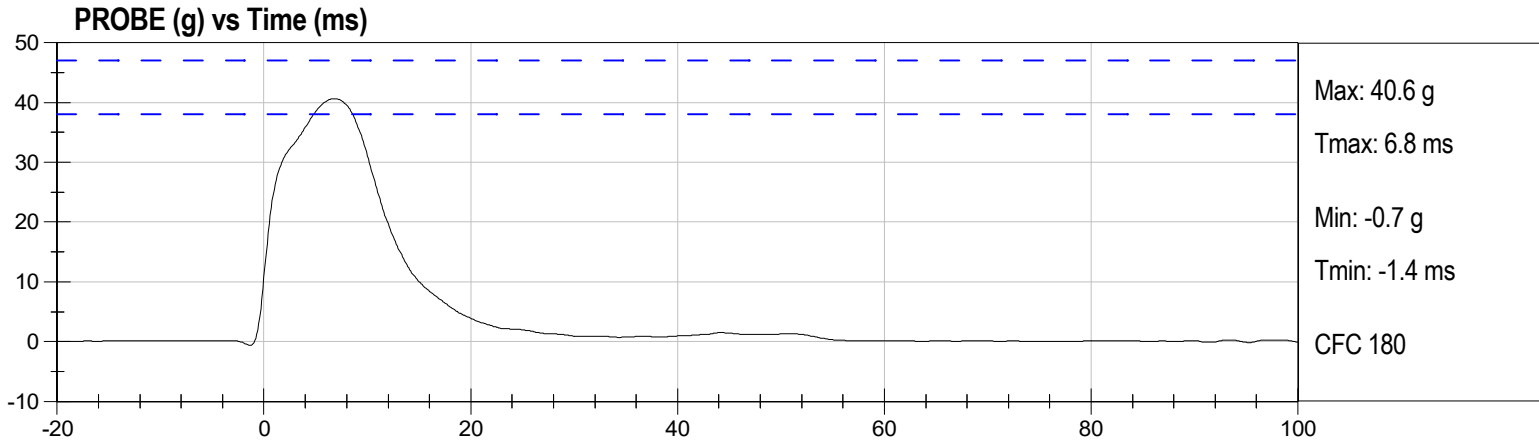
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
LOWER SPINE Y	Endevco	P79439	05/29/2025	11/28/2025
UPPER ABDOMINAL RIB DY	FTSS	G1146	05/27/2025	11/26/2025
LOWER ABDOMINAL RIB DY	FTSS	G1126	05/27/2025	11/26/2025





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	46	Pass
Impact Velocity	m/s	6.6 to 6.8	6.77	Pass
Peak Probe Acceleration	g	38 to 47	41	Pass
Peak Pelvis Y Acceleration after 6 ms	g	34 to 42	36.1	Pass
Acetabulum Force	N	3600 to 4300	4051	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PELVIS Y	Endevco	T22504	05/29/2025	11/28/2025
ACETABULUM FY	Denton	ACG259FY	05/28/2025	5/28/2026



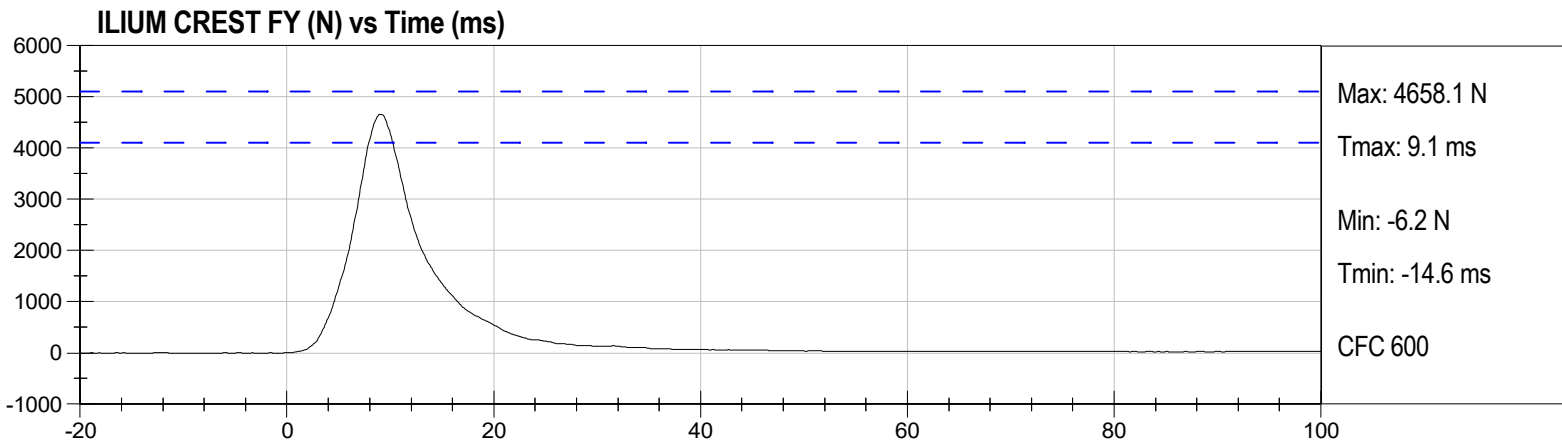
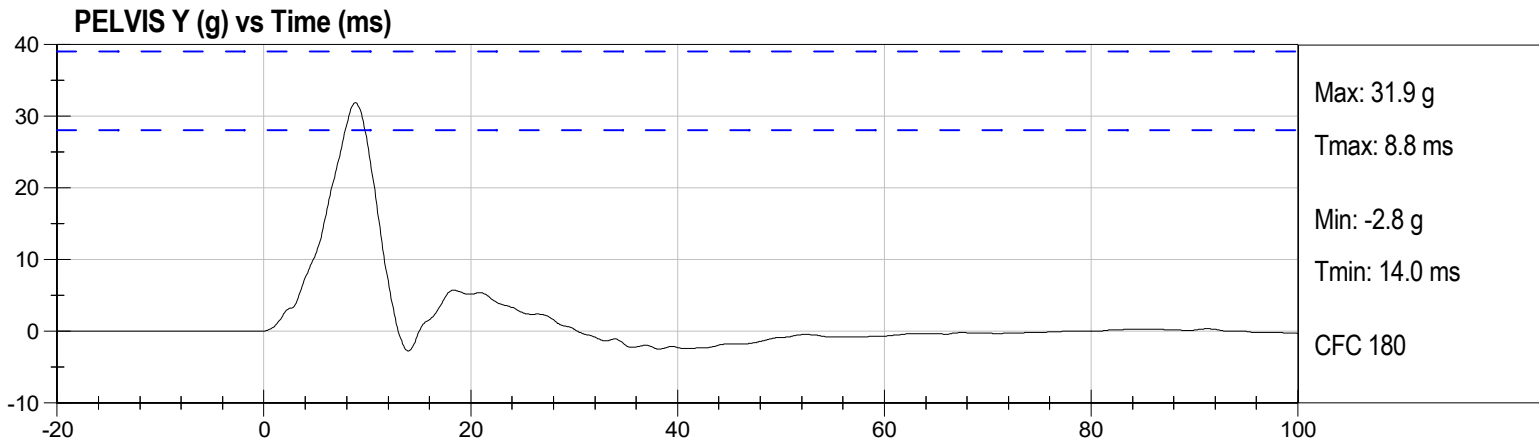
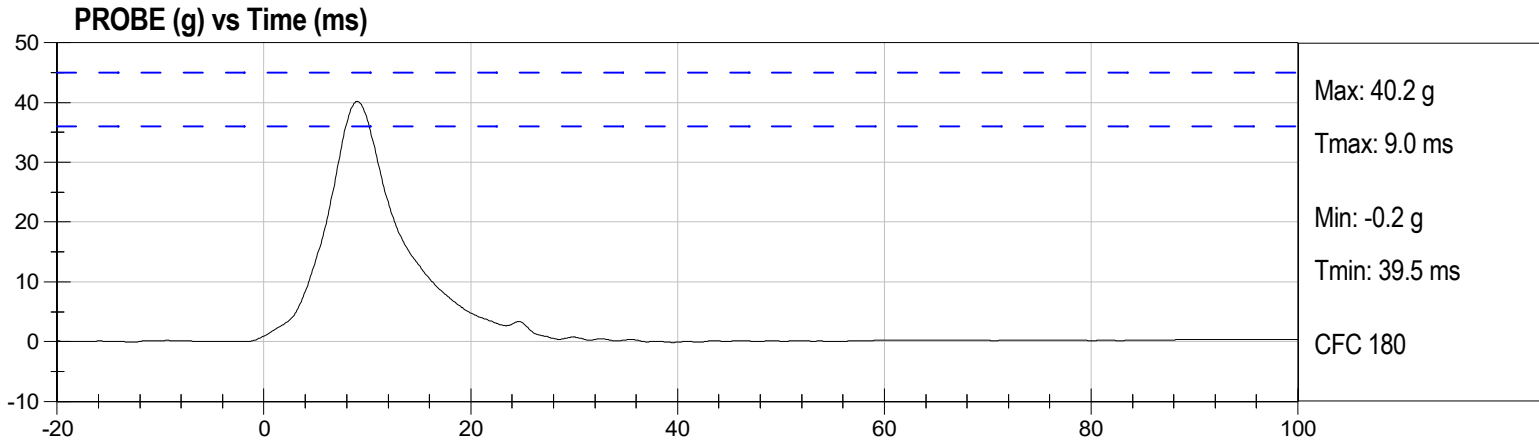


Iliac Impact Test
SID IIs
ATD Serial No: 296

Test Date: 08/06/2025
Test ID: D252278
Test Technician: Jonah Pulokas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	44	Pass
Impact Velocity	m/s	4.2 to 4.4	4.34	Pass
Peak Probe Acceleration	g	36 to 45	40	Pass
Peak Pelvis Y Acceleration	g	28 to 39	32	Pass
Iliac Force	N	4100 to 5100	4658	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PELVIS Y	Endevco	T22504	05/29/2025	11/28/2025
ILIUM CREST FY	Denton	IWG286FY	05/28/2025	5/28/2026



QUALIFICATION TEST RESULTS

POST-TEST

SID-IIS 5TH PERCENTILE FEMALE - DRIVER ATD

SID-IIsD External Measurements
SN: 296

No.	Name	Spec. (mm)	Result	Pass/Fail
A	Sitting Height	772 - 788	784	Pass
B	Shoulder Pivot Height	437 - 453	442	Pass
C	H-point Height	79 - 89	83	Pass
D	H-point from Seatback	141 - 151	145	Pass
E	Shoulder Pivot from Backline	97 - 107	99	Pass
F	Thigh Clearance	119 - 135	121	Pass
G	Head Breadth	140 - 148	142	Pass
H	Head Back from Backline	40 - 46	45	Pass
I	Head Depth	178 - 188	180	Pass
J	Head Circumference	541 - 551	548	Pass
K	Buttock to Knee Length	514 - 540	535	Pass
L	Popliteal Height	343 - 369	358	Pass
M	Knee Pivot to Floor Height	392 - 409	404	Pass
N	Buttock Popliteal Length	416 - 442	435	Pass
O	Chest Depth w/o Jacket	195 - 211	206	Pass
P	Foot Length	216 - 232	219	Pass
Q	Hip Breadth (w/ pelvic plugs)	313 - 323	316	Pass
R	Arm Length	249 - 259	250	Pass
S	Knee Joint to Seatback	477 - 493	481	Pass
V	Shoulder Width	341 - 357	346	Pass
W	Foot Width	78 - 94	85	Pass
Y	Chest Circumference w/ jacket	851 - 881	870	Pass
Z	Waist Circumference	761 - 791	772	Pass

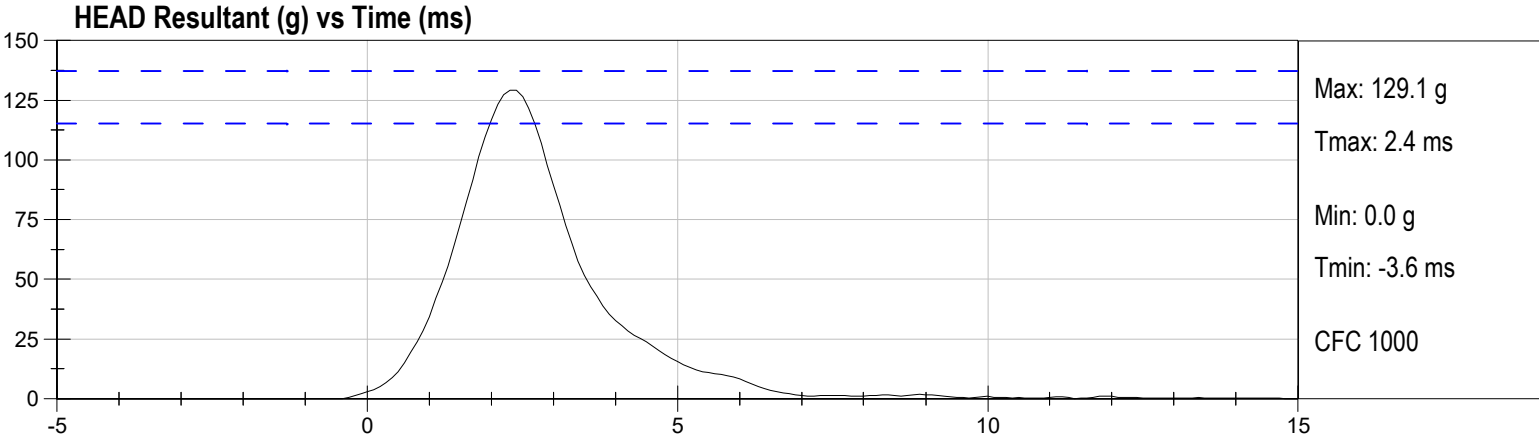
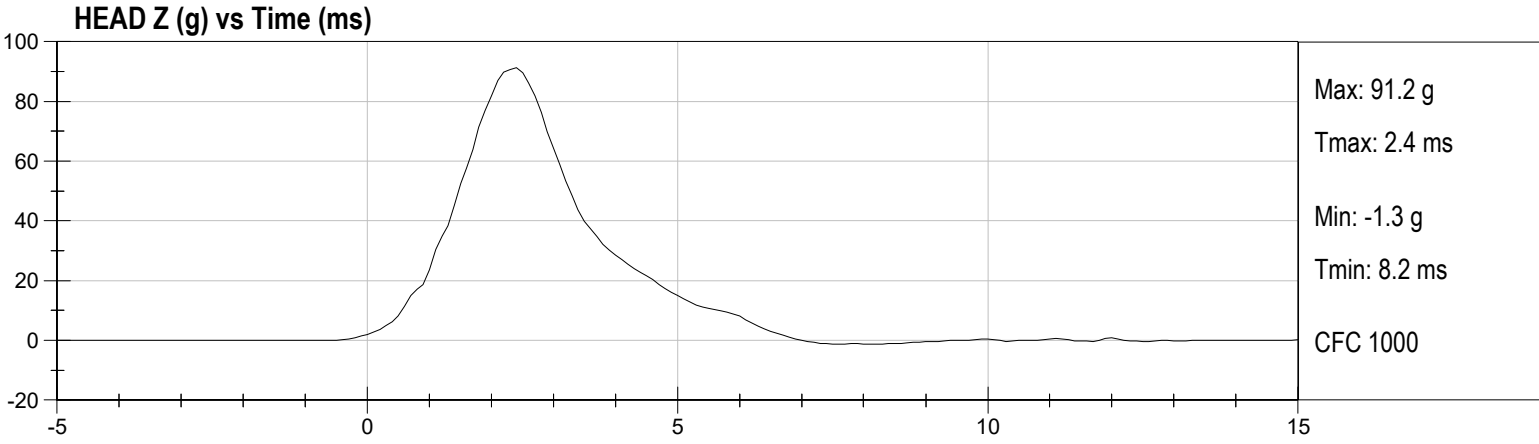
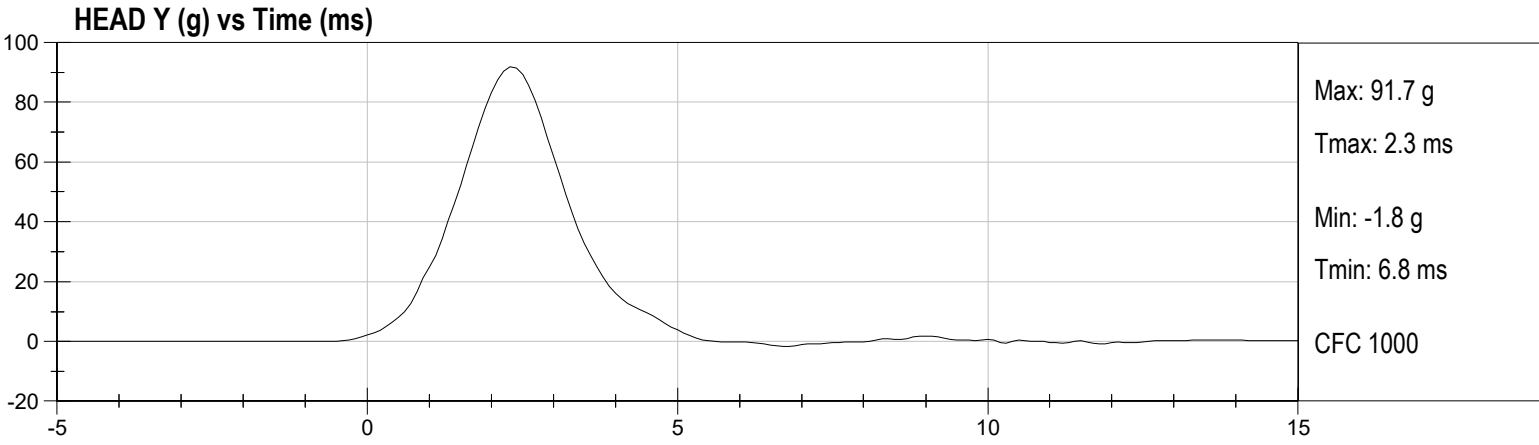
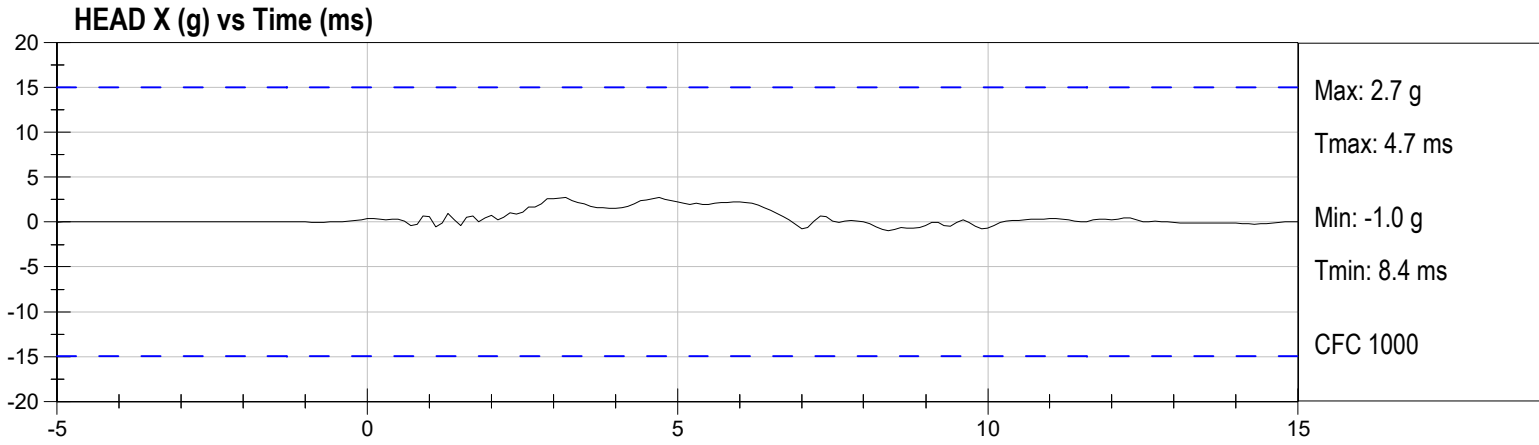


Lateral Head Drop Test
SID IIs
ATD Serial No: 296

Test Date: 09/08/2025
Test ID: D252581
Test Technician: Brian Lucas

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	20.9	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Peak Resultant Acceleration	g	115 to 137	129	Pass
Peak Longitudinal Acceleration	g	-15.0 to 15.0	2.7	Pass
Unimodal	%	within 15% of peak	1	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
HEAD Y	Endevco	T30974	05/27/2025	11/26/2025
HEAD X	Endevco	T30975	05/27/2025	11/26/2025
HEAD Z	Endevco	T30976	05/27/2025	11/26/2025

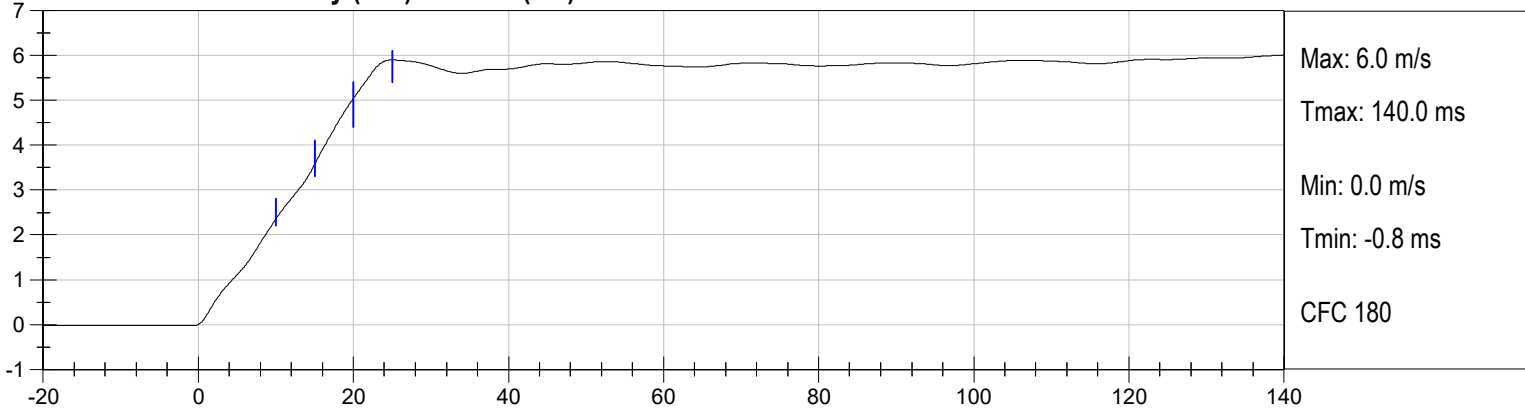




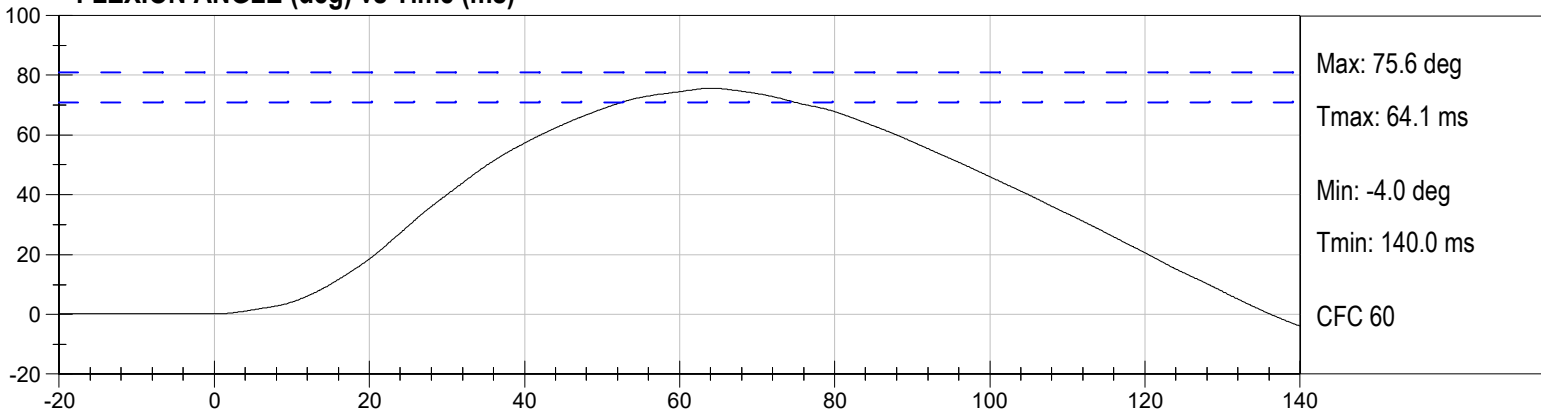
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	41	Pass
Impact Velocity	m/s	5.51 to 5.63	5.52	Pass
Pendulum Velocity at 10 ms	m/s	2.20 to 2.80	2.33	Pass
Pendulum Velocity at 15 ms	m/s	3.30 to 4.10	3.54	Pass
Pendulum Velocity at 20 ms	m/s	4.40 to 5.40	5.02	Pass
Pendulum Velocity at 25 ms	m/s	5.40 to 6.10	5.90	Pass
Peak Pendulum Velocity from 25 to 100 ms	m/s	5.50 to 6.20	5.90	Pass
Maximum "D" Plane Rotation	deg	71 to 81	76	Pass
Time of Maximum "D" Plane Rotation	ms	50 to 70	64	Pass
Maximum Moment About Occipital Condyle	Nm	-44 to -36	-37	Pass
Time of Moment Decay Time To 0 Nm	ms	102 to 126	121	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PEND. ACCEL.	Endevco	AH5P1	07/09/2025	1/8/2026
NECK FORCE Y	Denton	N1021FY	02/19/2025	2/19/2026
NECK MOMENT X	Denton	N1021MX	02/19/2025	2/19/2026
POT. A - FRONT	Servo	2732	07/16/2025	1/15/2026
POT. C - HEADFORM	Servo	2204	07/16/2025	1/15/2026

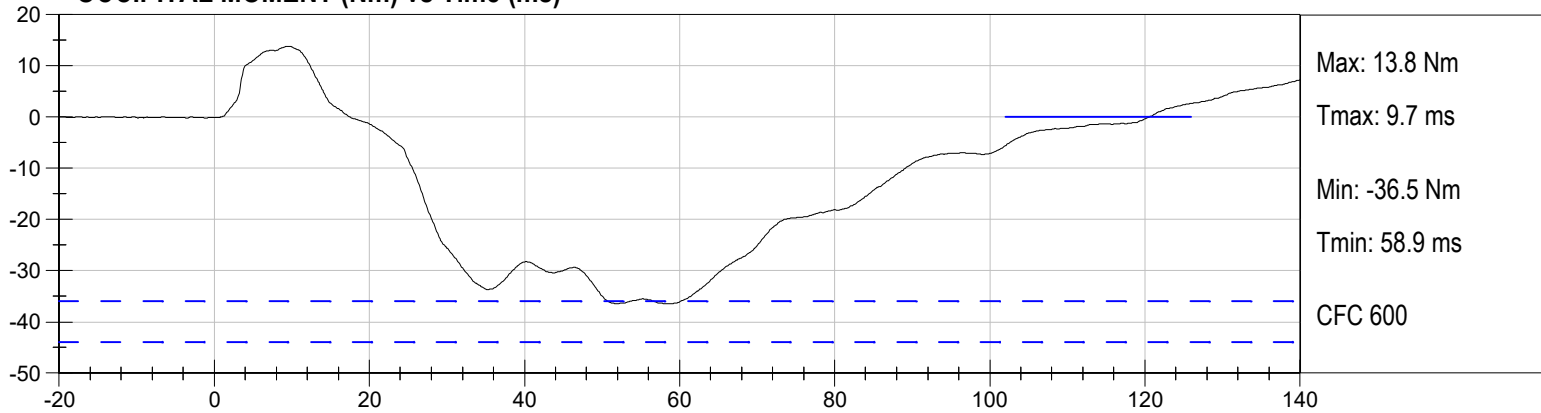
PEND. ACCEL. Velocity (m/s) vs Time (ms)



FLEXION ANGLE (deg) vs Time (ms)



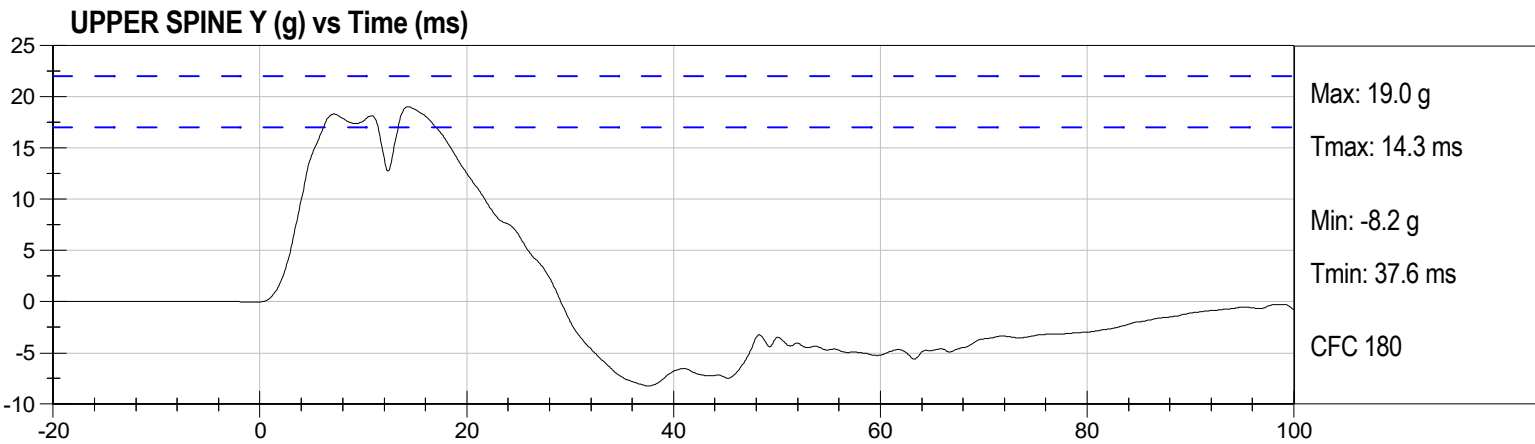
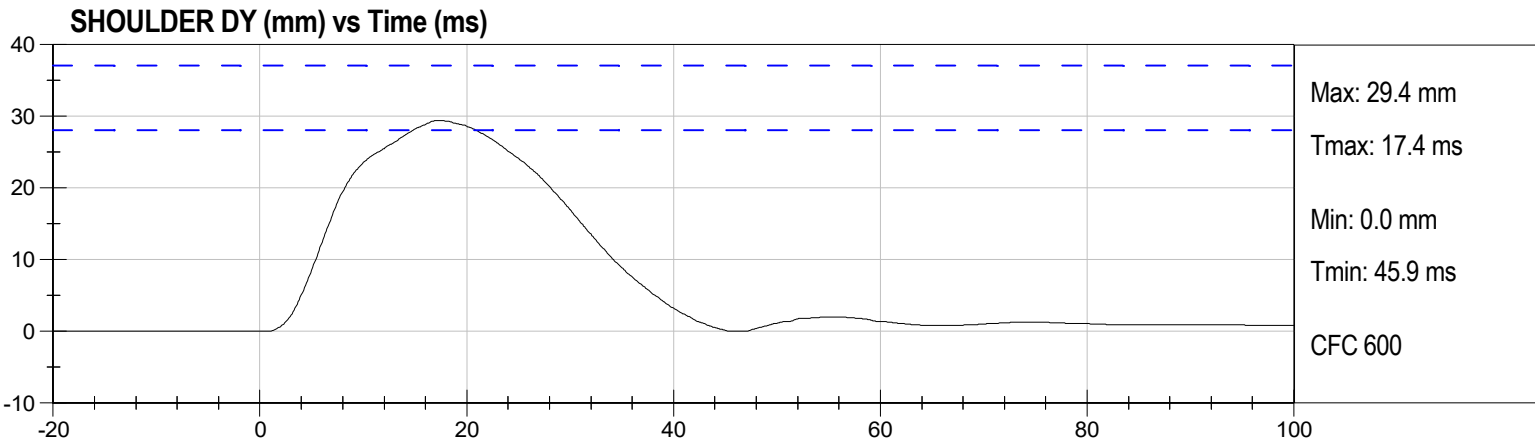
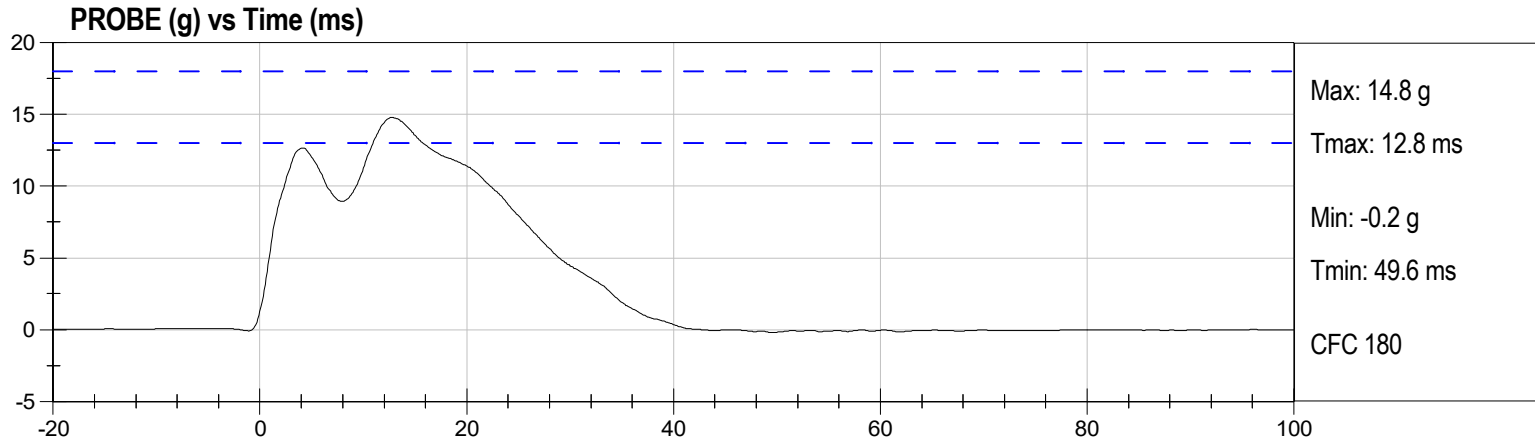
OCCIPITAL MOMENT (Nm) vs Time (ms)





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.34	Pass
Peak Probe Acceleration	g	13 to 18	15	Pass
Shoulder Displacement	mm	28 to 37	29	Pass
Upper Spine (T1) Y Acceleration	g	17 to 22	19	Pass

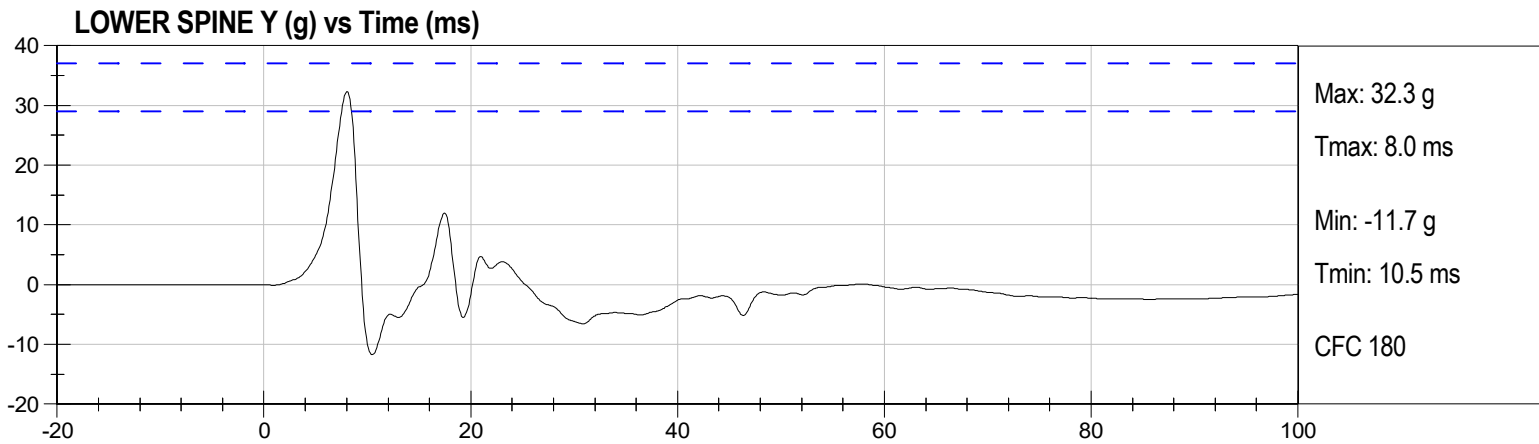
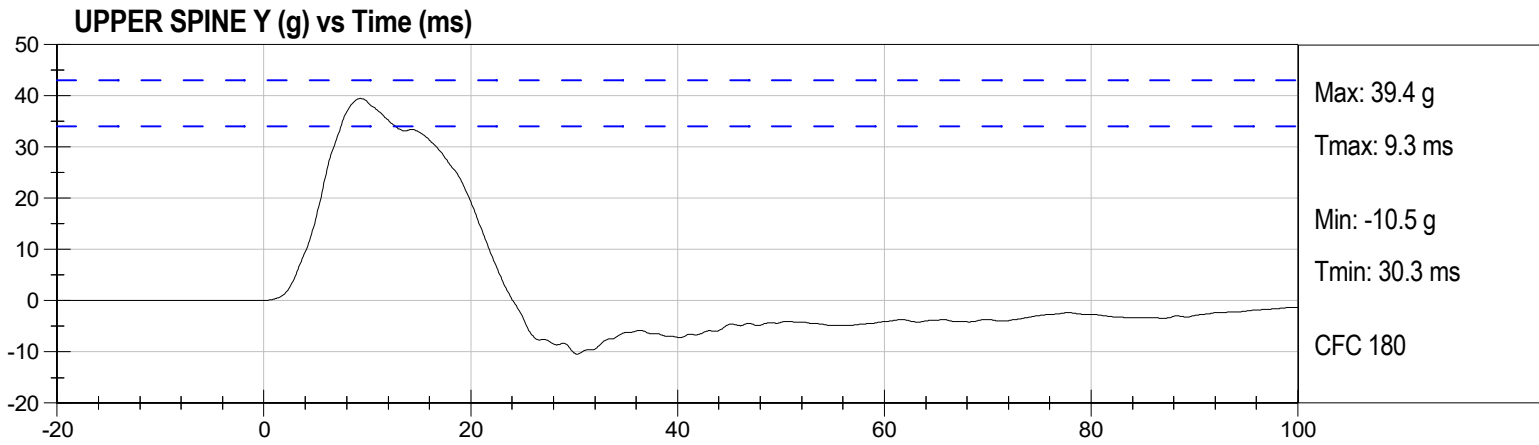
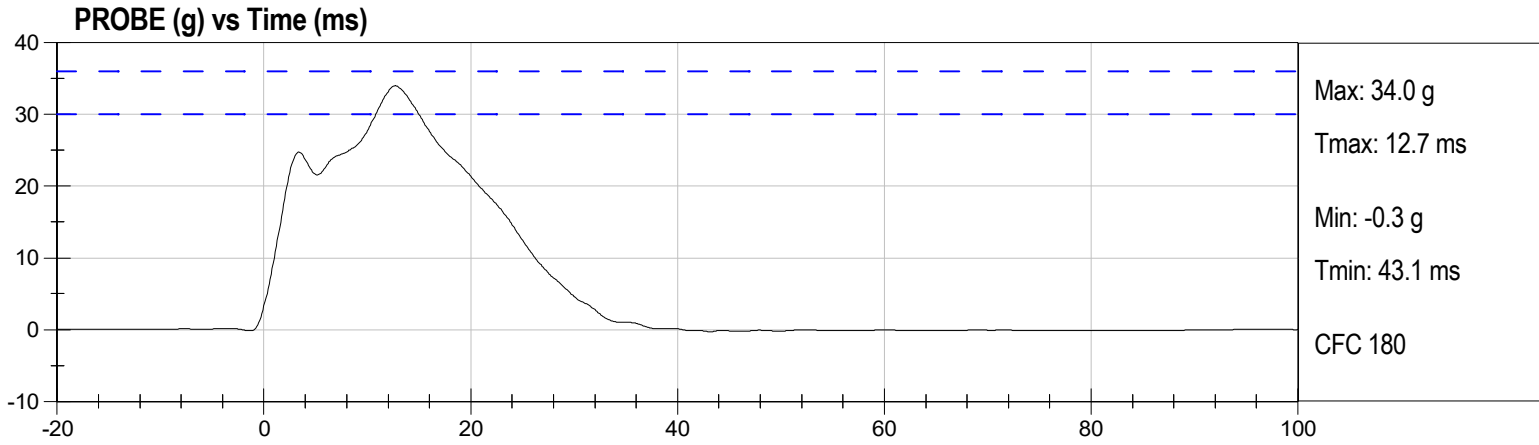
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P88675	05/29/2025	11/28/2025
SHOULDER DY	FTSS	G1223	05/27/2025	11/26/2025

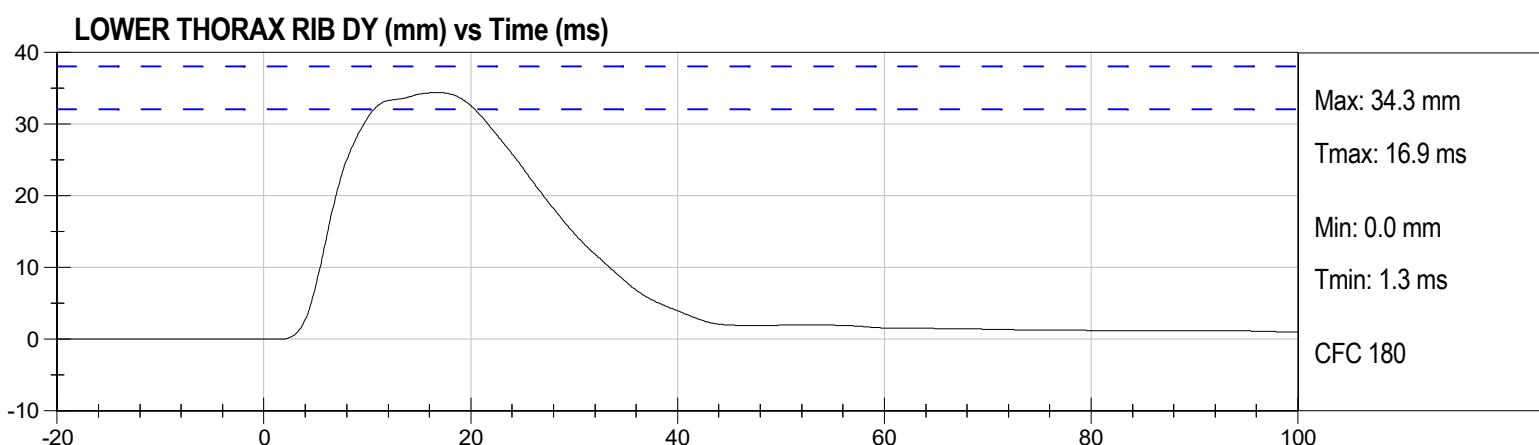
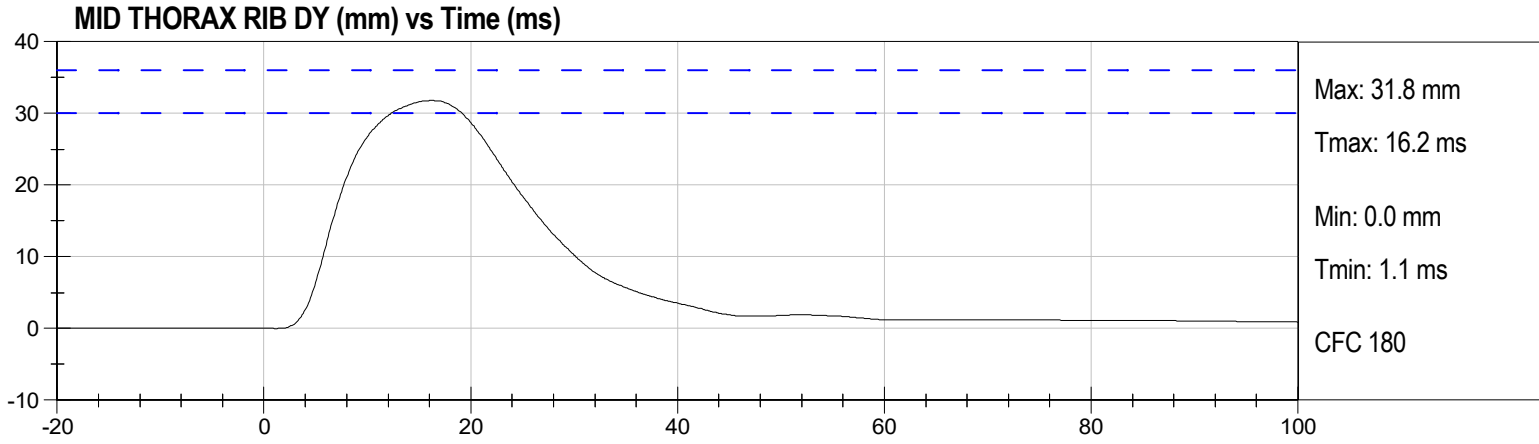
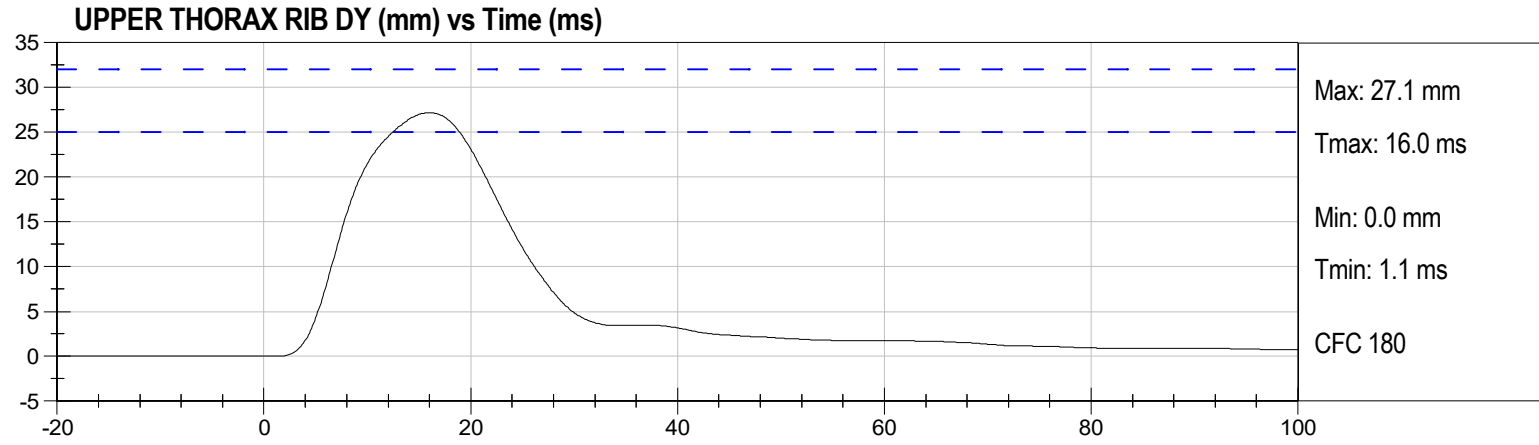
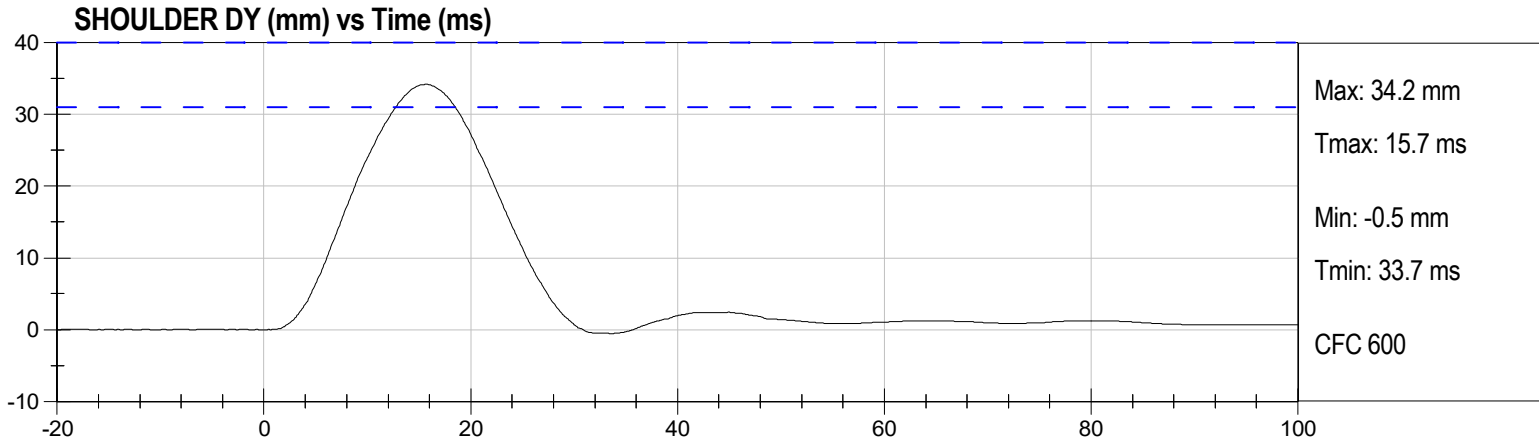




Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.4	Pass
Laboratory Relative Humidity	%	10 to 70	38	Pass
Impact Velocity	m/s	6.6 to 6.8	6.64	Pass
Peak Probe Acceleration after 5 ms	g	30 to 36	34	Pass
Upper Spine (T1) Y Acceleration	g	34 to 43	39	Pass
Lower Spine (T12) Y Acceleration	g	29 to 37	32	Pass
Shoulder Displacement	mm	31 to 40	34	Pass
Upper Thorax Rib Displacement	mm	25 to 32	27	Pass
Middle Thorax Rib Displacement	mm	30 to 36	32	Pass
Lower Thorax Rib Displacement	mm	32 to 38	34	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P88675	05/29/2025	11/28/2025
LOWER SPINE Y	Endevco	P79439	05/29/2025	11/28/2025
SHOULDER DY	FTSS	G1223	05/27/2025	11/26/2025
UPPER THORAX RIB DY	Servo	G012	05/27/2025	11/26/2025
MID THORAX RIB DY	FTSS	G1163	05/27/2025	11/26/2025
LOWER THORAX RIB DY	FTSS	G1158	05/27/2025	11/26/2025

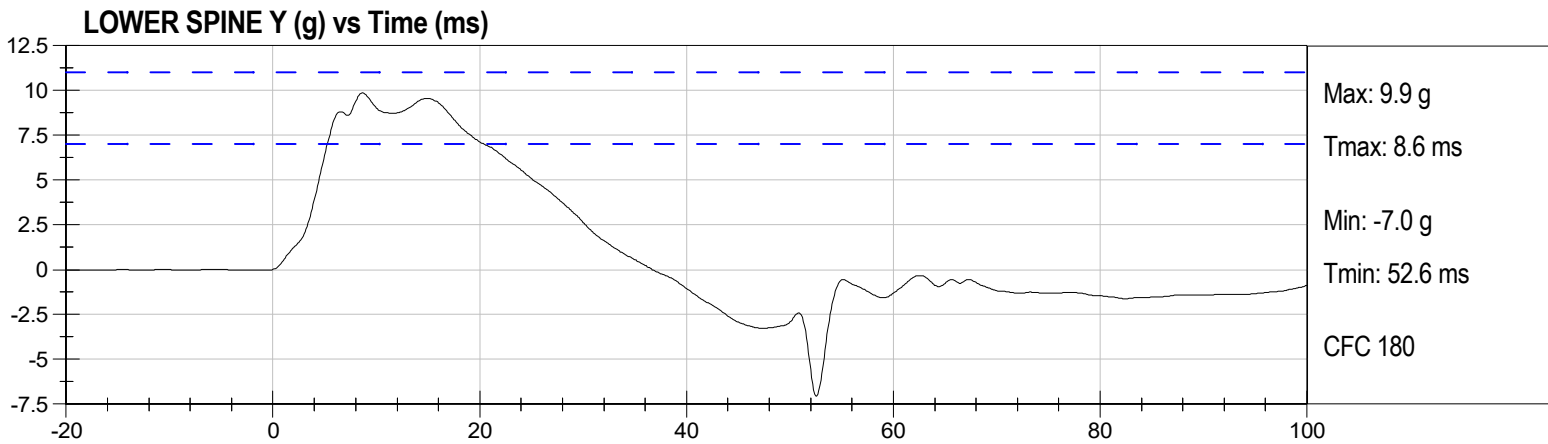
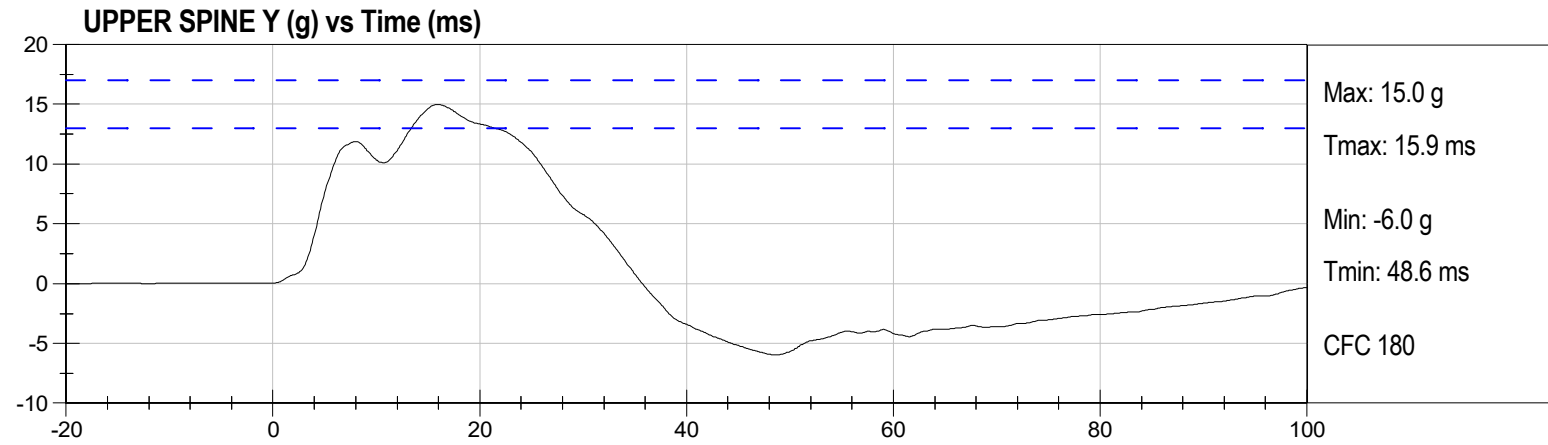
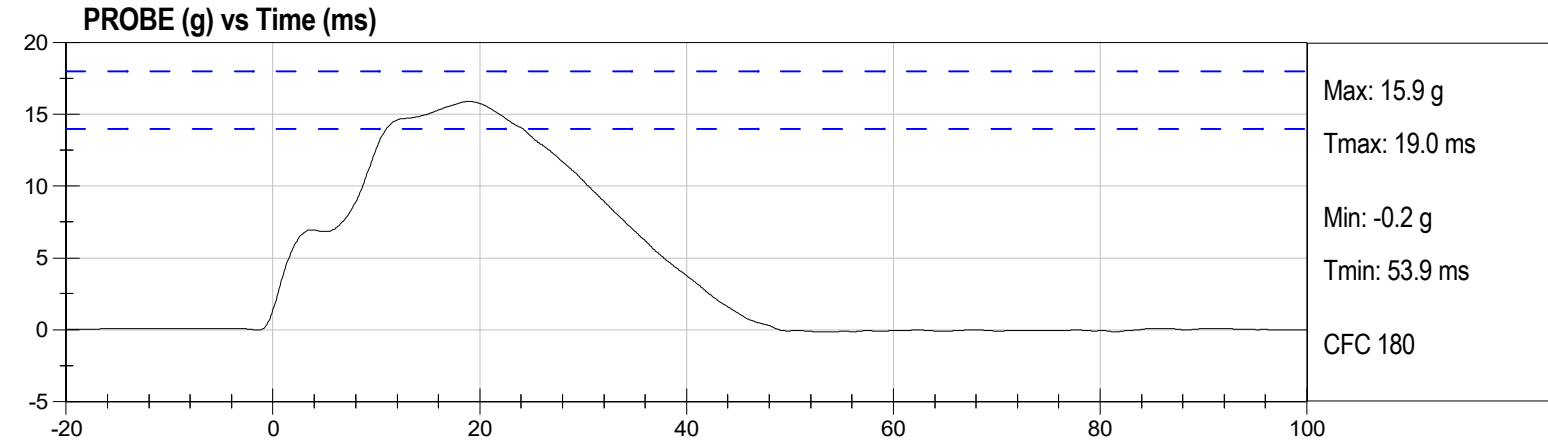




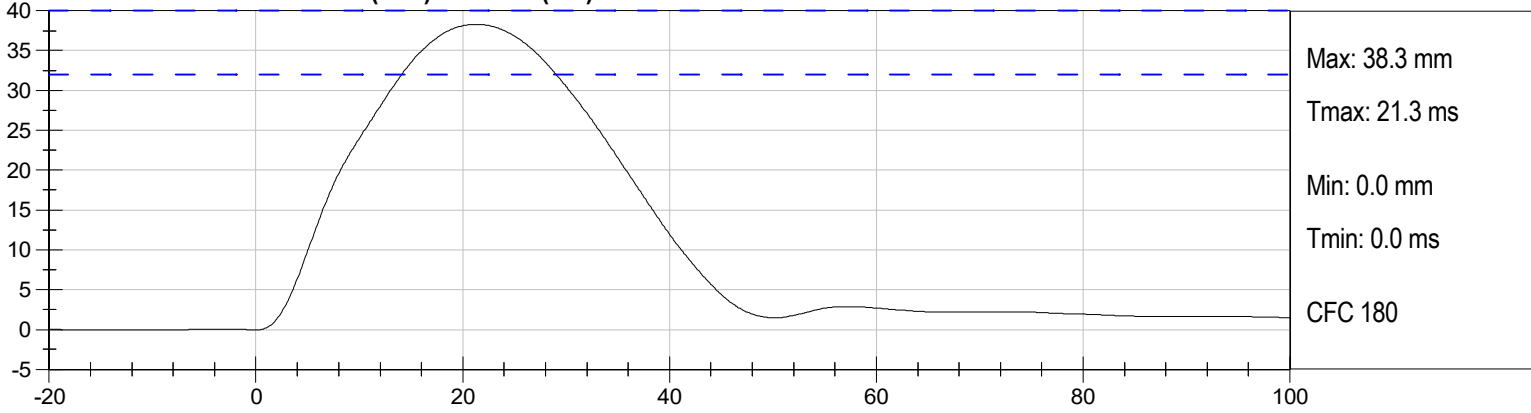


Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.31	Pass
Peak Probe Acceleration	g	14 to 18	16	Pass
Upper Spine (T1) Y Acceleration	g	13 to 17	15	Pass
Lower Spine (T12) Y Acceleration	g	7 to 11	10	Pass
Upper Thorax Rib Displacement	mm	32 to 40	38	Pass
Middle Thorax Rib Displacement	mm	39 to 45	43	Pass
Lower Thorax Rib Displacement	mm	35 to 43	40	Pass

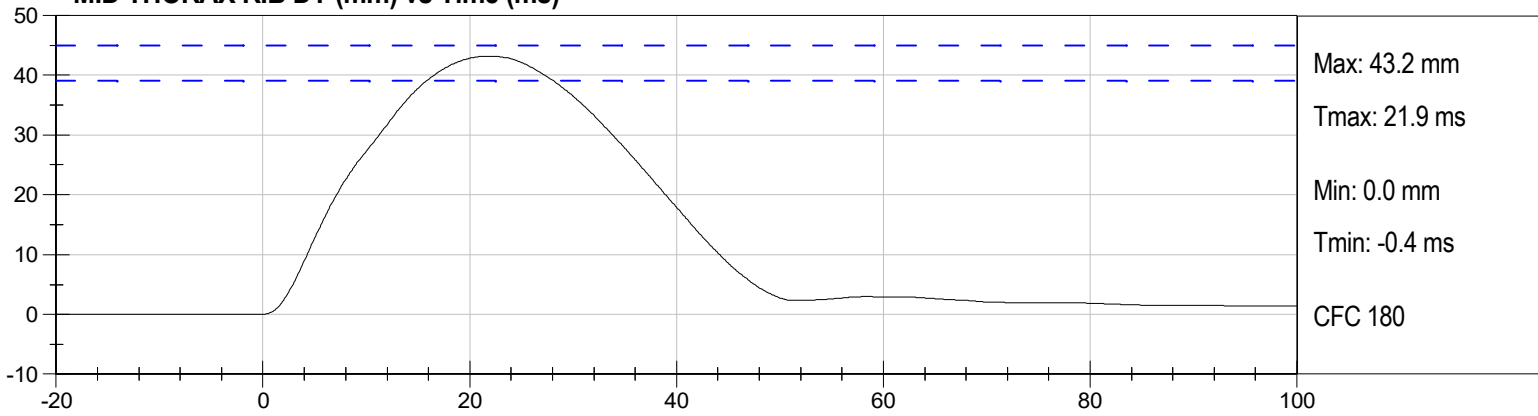
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
UPPER SPINE Y	Endevco	P88675	05/29/2025	11/28/2025
LOWER SPINE Y	Endevco	P79439	05/29/2025	11/28/2025
UPPER THORAX RIB DY	Servo	G012	05/27/2025	11/26/2025
MID THORAX RIB DY	FTSS	G1163	05/27/2025	11/26/2025
LOWER THORAX RIB DY	FTSS	G1158	05/27/2025	11/26/2025



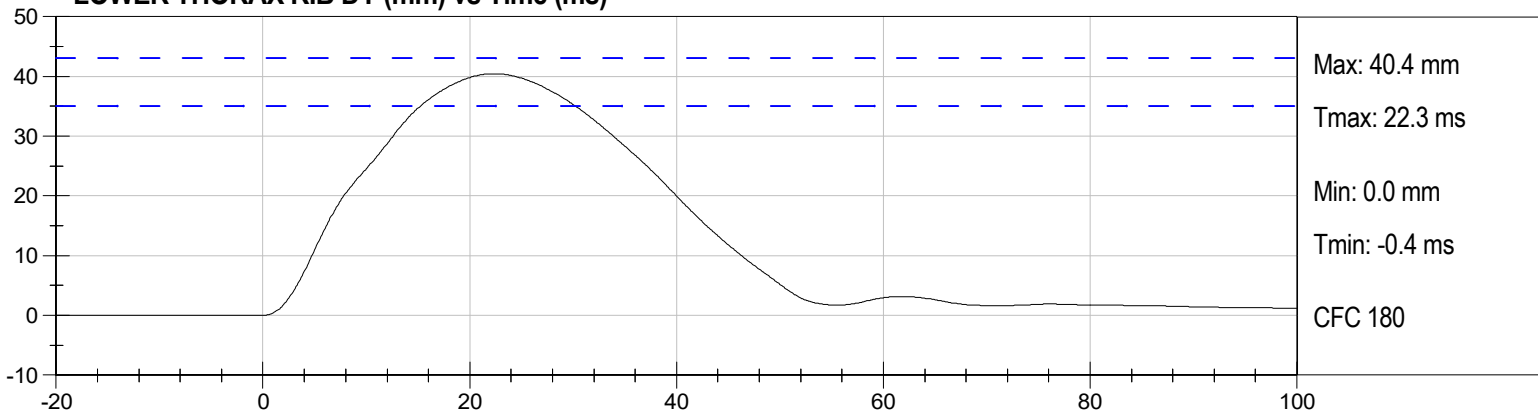
UPPER THORAX RIB DY (mm) vs Time (ms)



MID THORAX RIB DY (mm) vs Time (ms)



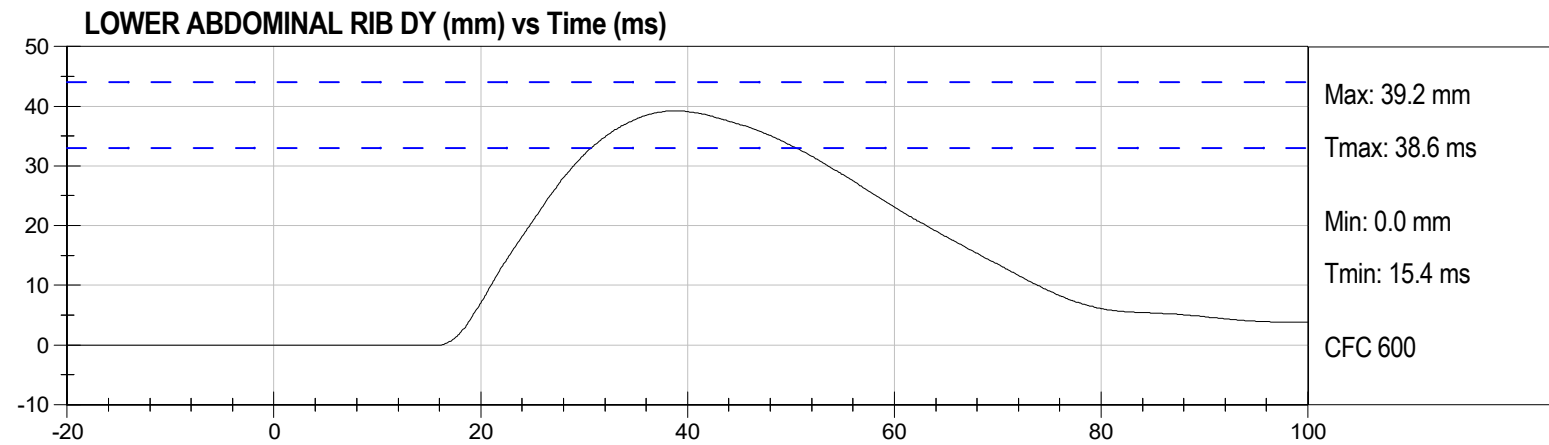
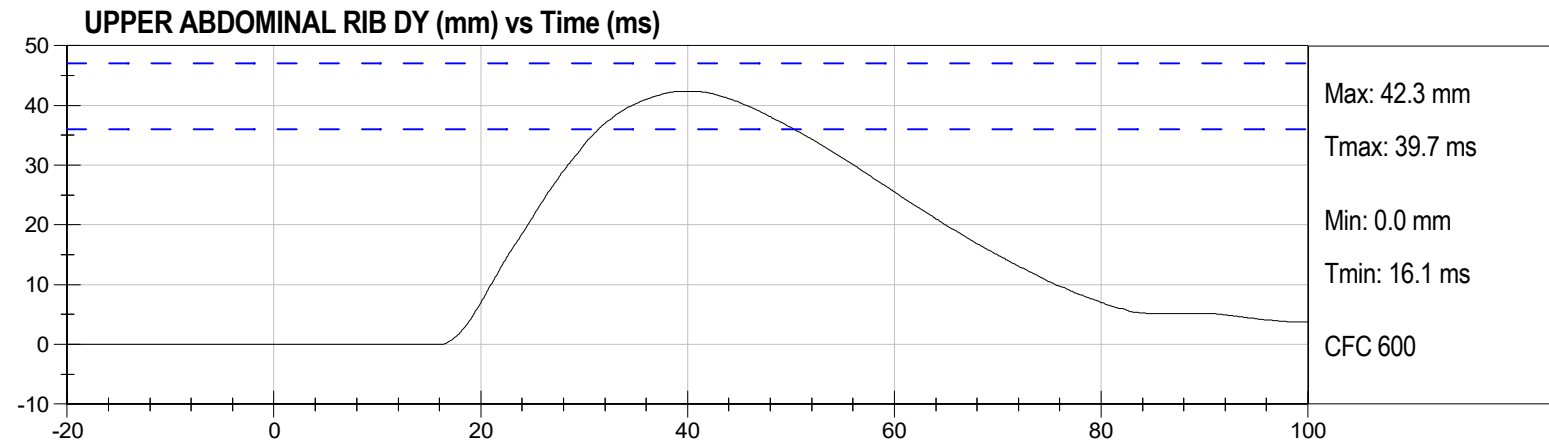
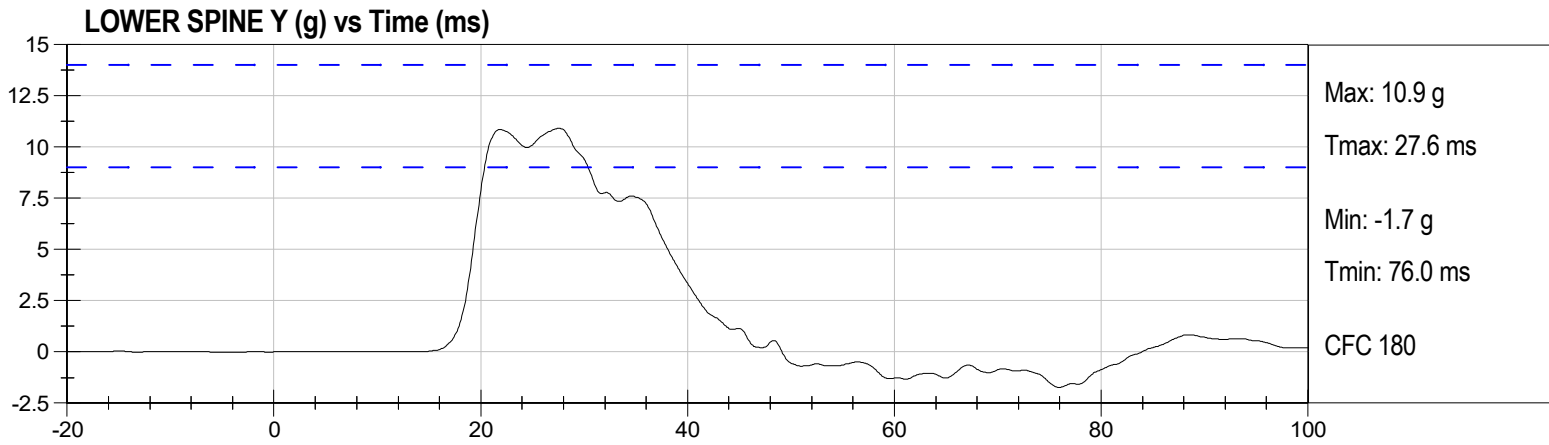
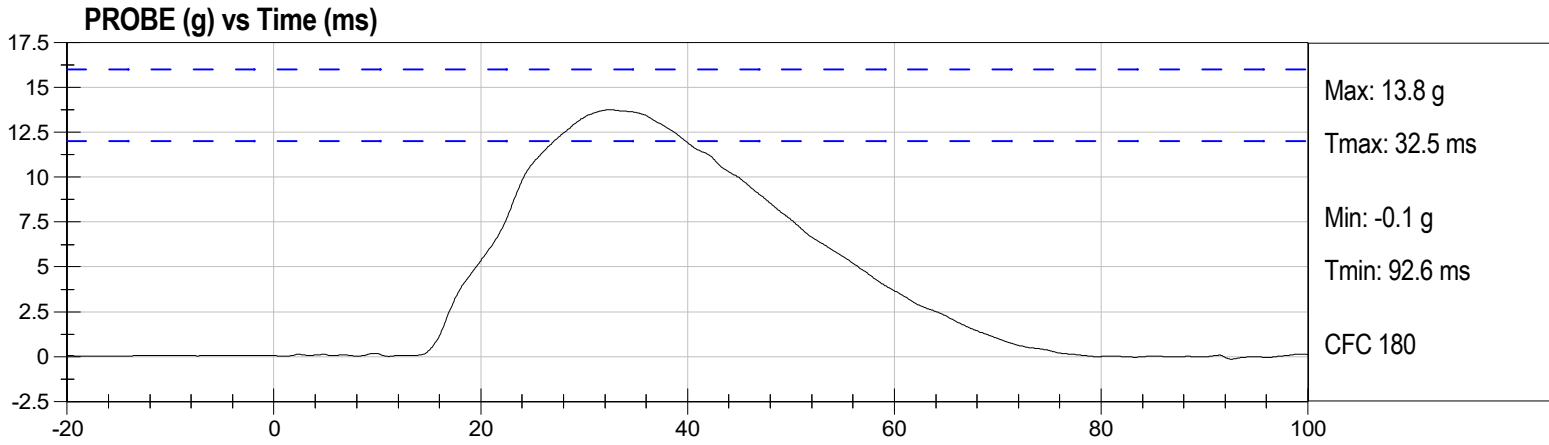
LOWER THORAX RIB DY (mm) vs Time (ms)





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.34	Pass
Peak Probe Acceleration	g	12 to 16	14	Pass
Lower Spine (T12) Y Acceleration	g	9 to 14	11	Pass
Upper Abdomen Rib Displacement	mm	36 to 47	42	Pass
Lower Abdomen Rib Displacement	mm	33 to 44	39	Pass

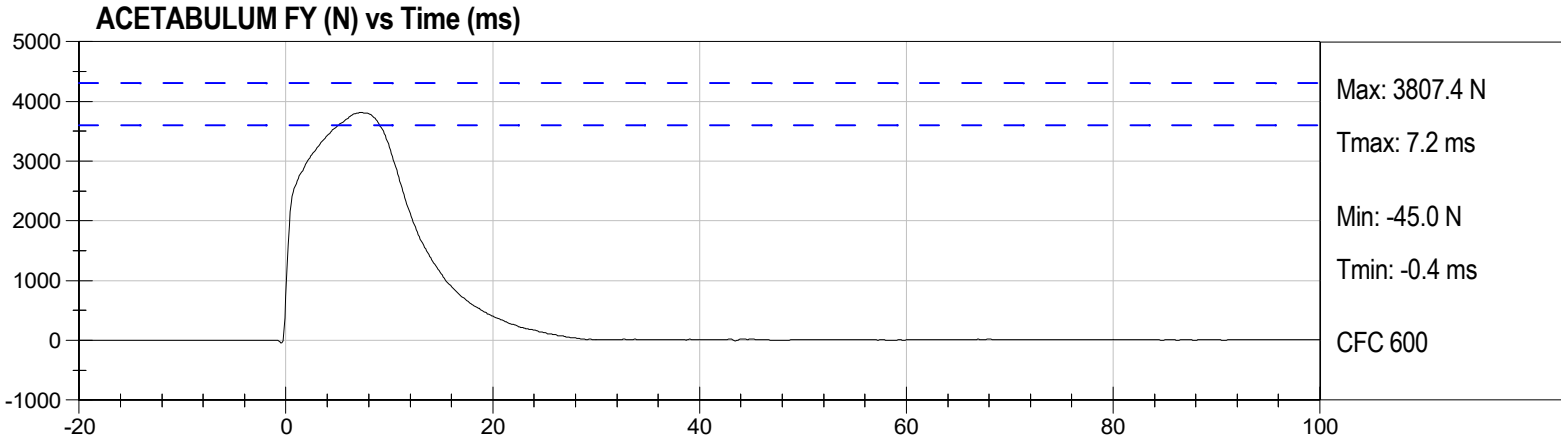
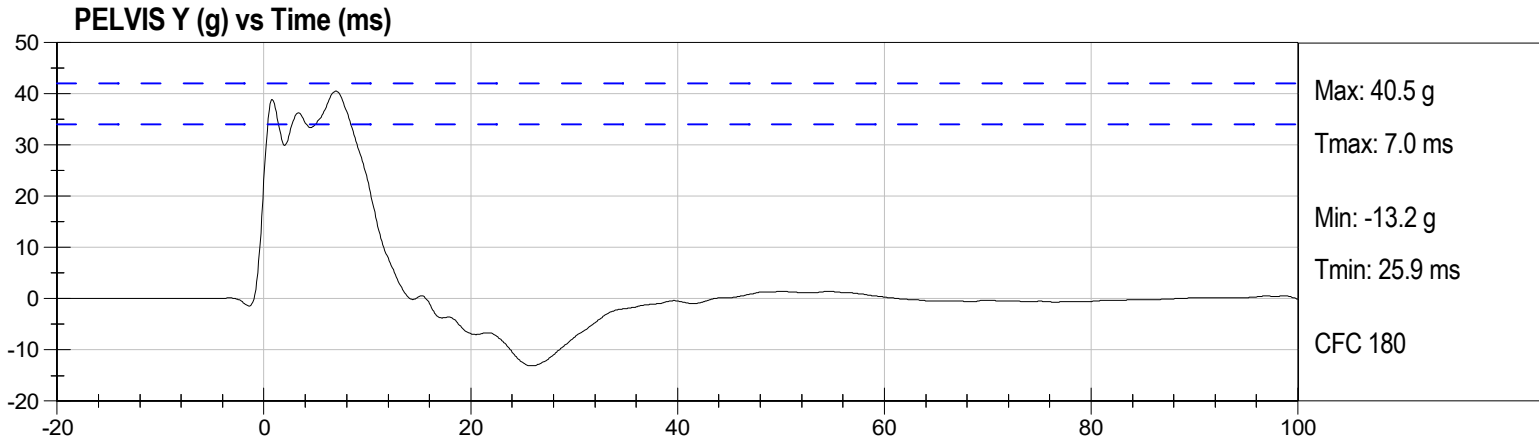
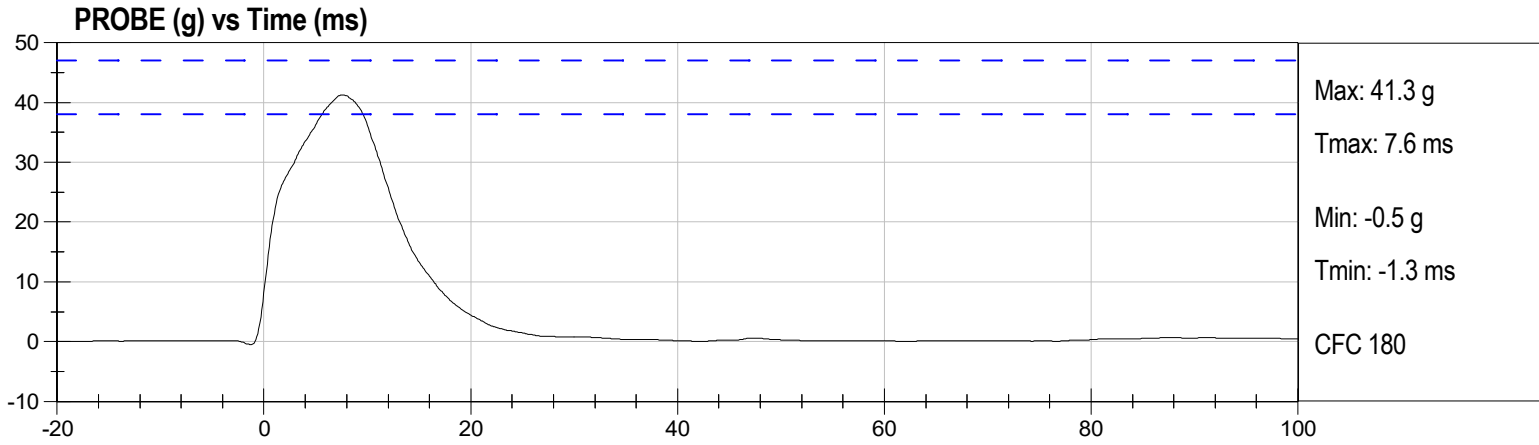
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
LOWER SPINE Y	Endevco	P79439	05/29/2025	11/28/2025
UPPER ABDOMINAL RIB DY	FTSS	G1146	05/27/2025	11/26/2025
LOWER ABDOMINAL RIB DY	FTSS	G1126	05/27/2025	11/26/2025





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	6.6 to 6.8	6.68	Pass
Peak Probe Acceleration	g	38 to 47	41	Pass
Peak Pelvis Y Acceleration after 6 ms	g	34 to 42	40.5	Pass
Acetabulum Force	N	3600 to 4300	3807	Pass

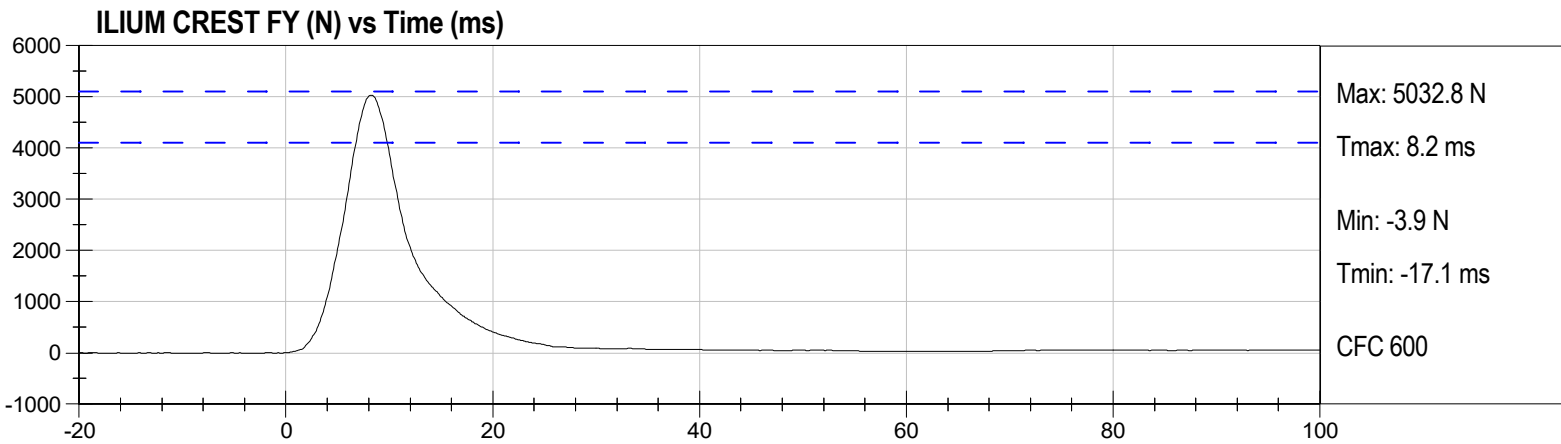
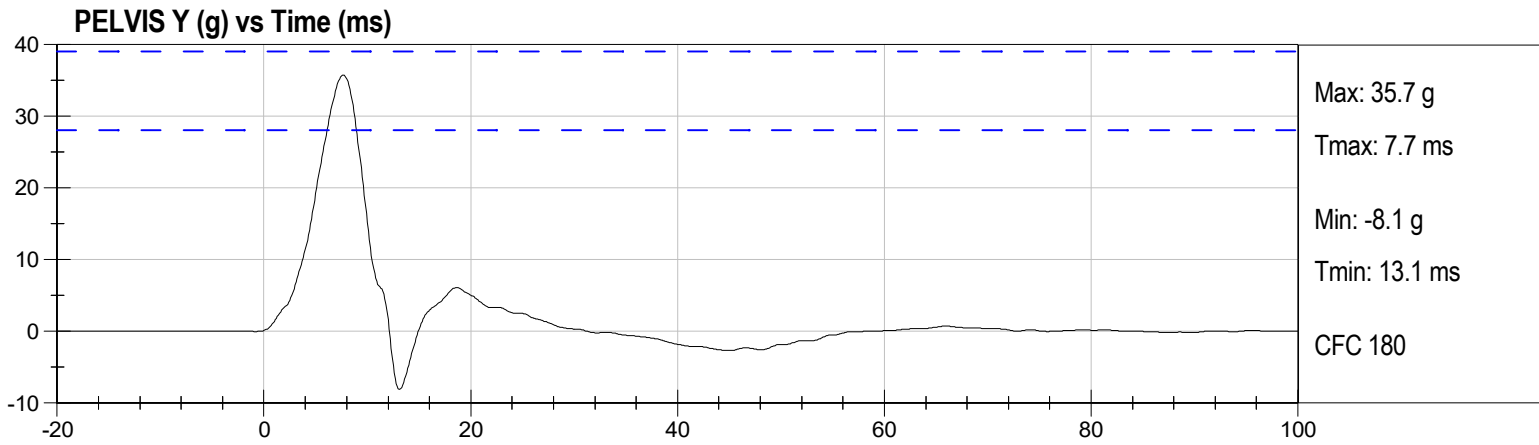
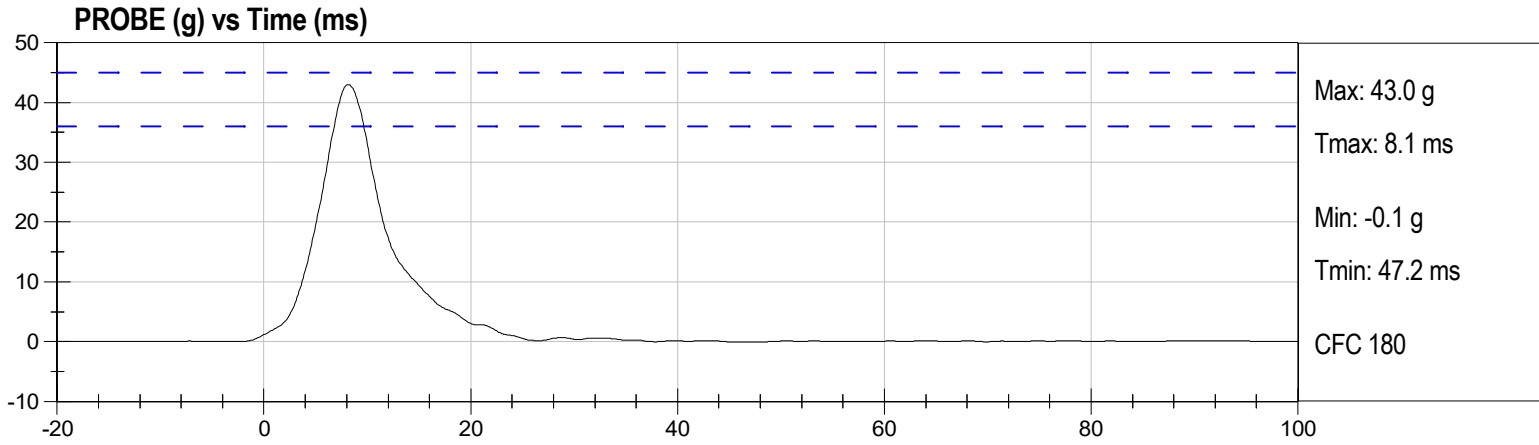
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PELVIS Y	Endevco	T22504	05/29/2025	11/28/2025
ACETABULUM FY	Denton	ACG259FY	05/28/2025	5/28/2026





Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.2	Pass
Laboratory Relative Humidity	%	10 to 70	39	Pass
Impact Velocity	m/s	4.2 to 4.4	4.31	Pass
Peak Probe Acceleration	g	36 to 45	43	Pass
Peak Pelvis Y Acceleration	g	28 to 39	36	Pass
Iliac Force	N	4100 to 5100	5033	Pass

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
PROBE	Endevco	P79577	03/21/2025	9/20/2025
PELVIS Y	Endevco	T22504	05/29/2025	11/28/2025
ILIUM CREST FY	Denton	IWG286FY	05/28/2025	5/28/2026





SID-IIs Pelvis Plug Certification Test

Plug S/N 16627

Test Number 23393

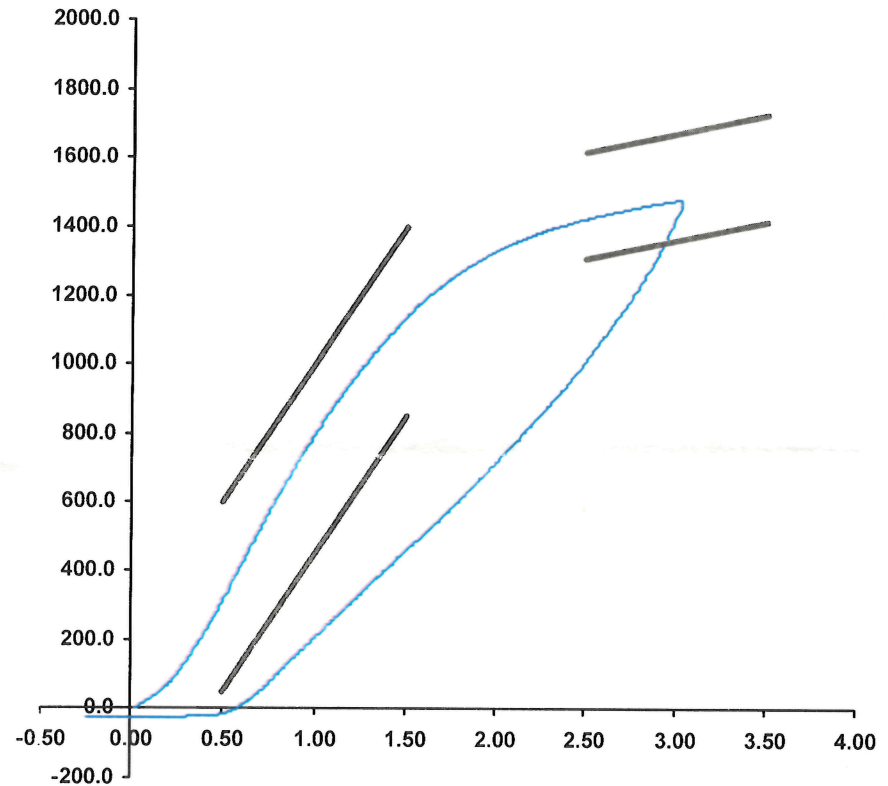
Report Number 23450

Test Date 7/20/2022 11:59:08 AM

	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	317	50	600
Force @ 1.5 mm (N)	1,135	850	1,400
Force @ 2.5 mm (N)	1,425	1,306	1,618
Force @ 3.0 mm (N)	1,478	1,361	1,673

Testing Machine STM-20 5965542
Load Cell S/N (FI360947), Units (LBS) 1000
Crosshead Speed (mm / min) or Rate 12.7
Extension or Position Measured by XHD_100 (XHD100)
Notes:

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107 20-Jul-22

SACO Research

By : DC Date : 7/20/22



SID-IIs Pelvis Plug Certification Test

Plug S/N 16303

Test Number 22869

Report Number 22926

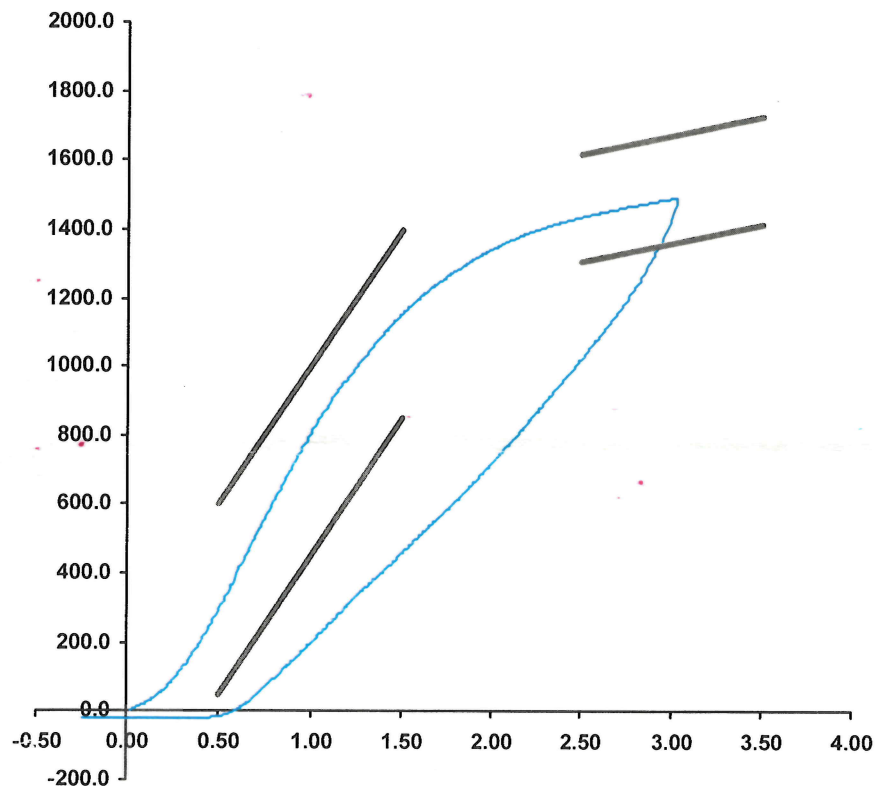
Test Date 5/20/2022 10:35:42 AM

	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	306	50	600
Force @ 1.5 mm (N)	1,153	850	1,400
Force @ 2.5 mm (N)	1,438	1,306	1,618
Force @ 3.0 mm (N)	1,491	1,361	1,673

Testing Machine STM-20 5965542
 Load Cell S/N (FI360947), Units (LBS) 1000
 Crosshead Speed (mm / min) or Rate 12.7
 Extension or Position Measured by XHD_100 (XHD100)

Notes:

Force (-N) vs Extension (-mm)



Operator _____
 Part Number 180-4450

Template No 107 20-May-22
 SACO Research

By : DC Date : 5/20/2022

APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION

Table 1 – Dummy Instrumentation

			SID-IIs S/N 296			
			Serial Number	Manufacturer	Calibration Date	
Head CG Accelerometers			X	P82109	Endevco	05/29/2025
			Y	P94783	Endevco	05/29/2025
			Z	P94786	Endevco	05/29/2025
			Xr	P94938	Endevco	05/29/2025
			Yr	P96854	Endevco	05/29/2025
			Zr	P97386	Endevco	05/29/2025
Head Angular Rate Sensors			X	ARS7391	DTS	07/15/2025
			Y	ARS7402	DTS	07/15/2025
			Z	ARS7416	DTS	07/15/2025
Displacement Potentiometers	Thoracic Rib	Upper	Y	G012	Servo	05/27/2025
		Middle	Y	G1163	FTSS	05/27/2025
		Lower	Y	G1158	FTSS	05/27/2025
	Abdominal Rib	Upper	Y	G1146	FTSS	05/27/2025
		Lower	Y	G1126	FTSS	05/27/2025
Lower Spine Accelerometers (T12)			X	P79614	Endevco	05/29/2025
			Y	P79439	Endevco	05/29/2025
			Z	P79418	Endevco	05/29/2025
Acetabulum Load Cell			Y	ACG259	Denton	05/28/2025
Iliac Wing Load Cell			Y	IWG286	Denton	05/28/2025
Pelvis Plug (struck side)				16627	SACO	07/20/2022
Pelvis Plug (non-struck side)				16303	SACO	05/20/2022

Table 2 – Vehicle Instrumentation

		Serial Number	Manufacturer	Calibration Date
Vehicle Center of Gravity	X	T43458	Endevco	04/10/2025
Vehicle Center of Gravity	Y	T45152	Endevco	04/10/2025
Vehicle Center of Gravity	Z	T45301	Endevco	04/10/2025
Left Floor Sill	Y	T39068	Endevco	04/24/2025
A-Pillar Sill	Y	T43435	Endevco	04/10/2025
A-Pillar Low	Y	T43498	Endevco	04/11/2025
A-Pillar Mid	Y	T42645	Endevco	04/07/2025
B-Pillar Sill	Y	T42767	Endevco	06/19/2025
B-Pillar Low	Y			
B-Pillar Mid	Y			
Driver Seat	Y	T43493	Endevco	04/09/2025
Engine Top	X	T43734	Endevco	04/16/2025
Engine Top	Y	T43902	Endevco	05/13/2025
Firewall	Y	T42764	Endevco	07/29/2025
Right Roof	Y	A295230	MSI	08/14/2025
Right Floor Sill	Y	T44865	Endevco	06/26/2025
Rear Floorpan	X	T45280	Endevco	08/14/2025
Rear Floorpan	Y	T43965	Endevco	08/14/2025

Table 3 – Pole Instrumentation

	Serial Number	Manufacturer	Calibration Date
Load Cell 1	DG6277	FTSS	07/30/2018
Load Cell 2	DG6278	FTSS	07/30/2018
Load Cell 3	DG6279	FTSS	07/30/2018
Load Cell 4	DG6280	FTSS	07/30/2018
Load Cell 5	DG6281	FTSS	07/30/2018
Load Cell 6	DG6283	FTSS	07/30/2018
Load Cell 7	DG6284	FTSS	07/30/2018
Load Cell 8	DG6582	FTSS	07/30/2018