

REPORT NUMBER: SPNCAP-CAL-25-003

**NEW CAR ASSESSMENT PROGRAM (NCAP)
SIDE IMPACT POLE TEST**

**Ford Motor Co.
2025 Lincoln Nautilus
5 Door SUV**

NHTSA No: M20250205

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



April 9, 2025

FINAL REPORT

**PREPARED FOR:
U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF CRASHWORTHINESS STANDARDS
1200 NEW JERSEY AVE SE
WASHINGTON, D.C. 20590**

This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, in response to Contract Number 693JJ920D000016.

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Vanessa Hansen, Operations Manager

FINAL REPORT ACCEPTANCE BY OCWS:

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

Date: _____

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

Date: _____

TECHNICAL REPORT DOCUMENTATION PAGE

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15. Supplementary Notes																																
16. Abstract A 32.20 km/h (20 mph), 75° oblique impact Side NCAP Test was conducted on the subject 2025 Lincoln Nautilus 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. This test was conducted at Calspan Corporation's Transportation Test Operations facility in Buffalo, New York on April 2, 2025. The impact velocity of the vehicle was 32.33 km/h, and the ambient temperature at the struck (driver's) side of the target vehicle was 21°C. The target vehicle's maximum post-test static crush was 269 mm located at level 3. The test vehicle's occupant performance data is as follows:																																
<table border="1"> <thead> <tr> <th rowspan="2">Measurement Description</th> <th colspan="3">Driver ATD (SID-IIs) (Serial No.300)</th> </tr> <tr> <th>Units</th> <th>Threshold</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC36)</td> <td></td> <td>1000</td> <td>248.346</td> </tr> <tr> <td>Resultant Lower Spine Acceleration</td> <td>G</td> <td>82</td> <td>33.451</td> </tr> <tr> <td>Total Pelvic Force (sum of acetabular and iliac forces)</td> <td>N</td> <td>5525</td> <td>2379.852</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>38</td> <td>16.147</td> </tr> <tr> <td>Maximum Abdominal Rib Deflection</td> <td>mm</td> <td>45*</td> <td>16.317</td> </tr> </tbody> </table>						Measurement Description	Driver ATD (SID-IIs) (Serial No.300)			Units	Threshold	Result	Head Injury Criteria (HIC36)		1000	248.346	Resultant Lower Spine Acceleration	G	82	33.451	Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	2379.852	Maximum Thoracic Rib Deflection	mm	38	16.147	Maximum Abdominal Rib Deflection	mm	45*	16.317
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The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.																																
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. Washington, D.C. 20590																												
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SECTION 1

TEST PURPOSE AND PROCEDURE

This side impact test was conducted as part of the MY 2025 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. 693JJ920D000016. The purpose of this test is to generate comparative side impact performance in a 2025 Lincoln Nautilus 5 Door SUV. The side impact test was conducted in accordance with the Office of Crashworthiness Standards Side NCAP Pole Laboratory Test Procedure, dated March 2020.

SECTION 2
SUMMARY OF TEST RESULTS

A rigid pole side impact test was conducted on a 2025 Lincoln Nautilus 5 Door SUV. The subject vehicle was towed into the rigid pole at an angle of 75° and a velocity of 32.33 km/h. The test was conducted by Calspan Corporation's Transportation Test Operations facility in Buffalo, New York on April 2, 2025. Pre-test and post-test photographs of the test vehicle and side impact dummy (SID-IIs) are included in Appendix A of this report.

One Part 572U (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. The side impact event was documented by 11 cameras. Camera locations and other pertinent camera information are included on page 3-11 in this report.

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

- Head CG tri-axial accelerometers
- Thorax upper, middle, and lower rib displacement potentiometers
- Abdomen upper and lower rib displacement potentiometers
- Lower spine tri-axial accelerometers
- Iliac load cell
- Acetabulum load cell

Appendix B contains the dummy response data. Dummy configuration and performance verification data can be found in Appendix C of this report. Appendix D identifies all serial numbers, manufacturers, and calibration dates for test equipment, dummy sensors, potentiometers, and load cells used to collect data during the test.

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

INJURY READINGS

Measurement Description	Driver ATD (SID-IIs)		
	Units	IARV	Result
Head Injury Criteria (HIC36)		1000	248.346
Resultant Lower Spine Acceleration	G	82	33.451
Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	2379.852
Maximum Thoracic Rib Deflection	mm	38	16.147
Maximum Abdominal Rib Deflection	mm	45*	16.317

*Proposed IARV

Supplemental restraint information was recorded as follows:

SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver) Occupant Location 1		Left Rear (Passenger) Occupant Location 4	
	Mounted	Deployed	Mounted	Deployed
Front Airbag	Yes	No		
Knee Airbag	Yes	No		
Side Airbag 1 - Curtain	Yes	Yes	Yes	Yes
Side Airbag 2 - Torso/Pelvis Airbag	Yes	Yes	No	N/A
Seat Belt Pretensioner	Yes	Yes	Yes	No
Seat Belt Load Limiter	Yes	Yes	Yes	No
Other				

GENERAL COMMENTS:

1. P1 serial number - 300

Data Anomalies:

- Front Seat Track Y Acceleration, Questionable data after 48.9 ms
- Front Seat Track Y Acceleration, Questionable data after 48.9 ms

SECTION 3

OCCUPANT AND VEHICLE INFORMATION

This section contains information reporting for the following Data Sheets:

Data Sheet No. 1 - General Test and Vehicle Parameter Data

Data Sheet No. 2 - Seat, Seat Belt, Steering Wheel Adjustment and Fuel Systems Data

Data Sheet No. 3 - Dummy Longitudinal Clearance Dimensions

Data Sheet No. 4 - Dummy Lateral Clearance Dimensions

Data Sheet No. 5 - Camera and Instrumentation Data

Data Sheet No. 6 – Test Vehicle Accelerometer Locations

Data Sheet No. 7- Rigid Pole Load Cell Data

Data Sheet No. 8 - Post-Test Observations

Data Sheet No. 9 - Test Vehicle Profile Measurements

Data Sheet No. 10 - Test Vehicle Exterior Crush Measurements

Data Sheet No. 11 - Vehicle Damage Profile Distances

Data Sheet No. 12 - FMVSS No. 301 Static Rollover Results

Data Sheet No. 13 - Dummy / Vehicle Temperature and Humidity Stabilization Data

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA No.	M20250205
Model Year	2025
Make	Lincoln
Model	Nautilus
Body Style	SUV
VIN	5LMPJ8JA6SJ910887
Body Color	Red Carpet Metallic
Odometer Reading (km/mi)	29 miles
Engine Displacement (L)	2.0
Type / No. Cylinders	14 Turbo
Engine Placement	Transverse
Transmission Type	Automatic
Transmission Speeds	8-Speed
Overdrive	Yes
Final Drive	All Wheel Drive
Roof Rack	No
Sunroof / T-Top	No
Running Boards	No
Tilt Steering Wheel	Yes
Power Seats	Yes
Anti-Lock Brakes (ABS)	Yes

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

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

DATA FROM CERTIFICATION LABEL

Manufactured By	Ford Motor Co.	GVWR (KG)	2545
Date of Manufacture	11/24	GAWR Front (KG)	1302
Vehicle Type	MPV	GAWR Rear (KG)	1352

VEHICLE SEATING AND WEIGHT CAPACITY DATA

Measured Parameter	Front	Rear	Third	Total	
Designated Seating Capacity (DSC)	2	3	N/A	5	
Vehicle Capacity Weight (VCW) (kg)				408	(A)
DSC x 68.0 kg				340	(B)
Cargo Weight (RCLW) (kg)				68	(A-B)

VEHICLE SEAT TYPE

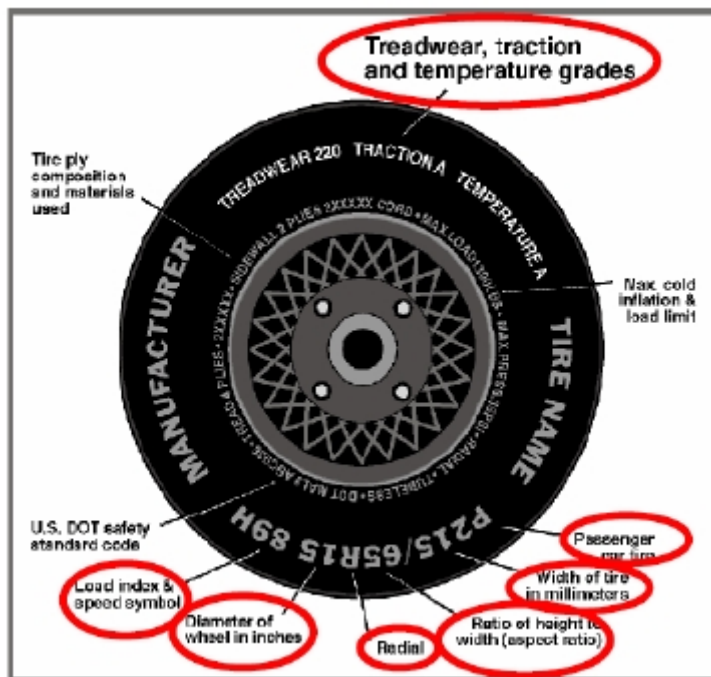
Seating Location	Type Of Seat Pan				Type Of Seat Back		
	Bucket	Bench	Split Bench	Contour	Fixed	Adjustable	
						W/ Lever	W/ Knob
Front	X						X
Rear or Second Row Seat			X			X	
Third Row seat	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

Collected for year, make, model, & VIN, all items circled in red, tire manufacturer and tire name



VEHICLE TIRE INFORMATION

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	350	350
Cold Pressure (kPa)	230	230
Recommended Tire Size	255/60R19	255/60R19
Tire Size on Vehicle	255/60R19	255/60R19
Tire Manufacturer	Goodyear	Goodyear
Tire Model	Eagle Touring	Eagle Touring
Treadwear	400	400
Traction	A	A
Temperature Grades	A	A
Tire Plies Sidewall	2 Polyester	2 Polyester
Tire Plies Body	2 Polyester, 2 Steel, 1 Polyamide	2 Polyester, 2 Steel, 1 Polyamide
Load Index / Speed Symbol	109H	109H
Tire Material	Rubber	Rubber
DOT Safety Code Left	1TCKO JL1R 4024	1TCKO JL1R 4024
DOT Safety Code Right	1TCKO JL1R 4024	1TCKO JL1R 4024

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

TIRE PRESSURES

	Units	LF	RF	LR	RR
As Delivered	kPa	245	243	247	247
Tire Placard	kPa	230	230	230	230
Owner's Manual	kPa	230	230	230	230
As Tested	kPa	230	230	230	230

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Rear	Total	Total	Front	Rear	Total
Left	kg	559	424		602	450		582	474	
Right	kg	551	414		554	454		558	453	
Ratio	%	57.0	43.0		56.1	43.9		55.2	44.8	
Totals	kg	1110	838	1948	1156	904	2060	1140	927	2067

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total As Delivered Weight (UVW)	kg	1948	(A)
Actual Weight of 1 P572V (SID-IIs) ATD Used	kg	50	(B)
Rated Cargo / Luggage Weight (RCLW)	kg	68	(C)
Calculated Vehicle Target Weight (TVTW)	kg	2066	(A+B+C)

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

Yes No

TEST VEHICLE ATTITUDES AND CG

Measurement Description	Units	As Delivered	As Tested	Fully Loaded	Meets Rqmt***
Driver Door Sill Angle (front-to-rear)*	Deg	-0.35	-0.25	-0.25	Yes
Front Passenger Sill Angle (front-to-rear)*	Deg	-0.55	-0.55	-0.55	Yes
Front Bumper-Line Angle (left-to-right)**	Deg	-0.25	-0.20	-0.20	Yes
Rear Bumper-Line Angle (left-to-right)**	Deg	-0.25	-0.35	-0.45	Yes
Vehicle CG (Aft of Front Axle)	mm	1247	1272	1300	
Vehicle CG (Left (+) / Right (-) from Longitudinal Centerline)	mm	8	18	18	

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

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW

Component Description	Weight (kg)
Trunk Carpeting	14
Spare Tire	2
Passenger Rear Window	2
Passenger Rear Tail Light	1
Ballast / Equipment Added	0

Test Height – Adjustable Suspension Setting, if Applicable	N/A
--	-----

TEST SURFACE MARKING

	Distance from 75° Impact Location Line (mm)
Fore 25 mm target	958
Aft 25 mm target	956

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

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	19.1	10.5	14.8
Front Passenger Seat	17.8	12.6	15.2
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)		
				Rearmost	Mid-Fore / Aft	Forward-Most
Driver Seat	14.8	36	Max	48	53	57
			Mid	26	31	36
			Min	3	8	13
Front Passenger Seat	15.2	22	Max	-	-	-
			Mid	12	17	22
			Min	-	-	-
Front Center Seat*			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max			
			Mid			
			Min			
Non-Struck Side Rear Seat	Fixed	Fixed	Max			
			Mid			
			Min			
Rear Center Seat*	Fixed	Fixed	Max			
			Mid			
			Min			

**If applicable*

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

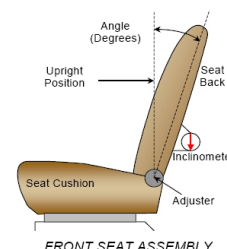
NHTSA No.: M20250205
 Test Date: 04/02/2025

SEAT FORE / AFT POSITION

Seat	Total Fore / Aft Travel		Test Position from Forward most Position	
	mm	Detents*	mm	Detents*
Driver Seat	254	Power	0	Power
Front Passenger Seat	254	Power	0	Power
Front Center Seat				
Struck Side Rear Seat	190	19 (0-18)	190	19
Non-Struck Side Rear Seat	190	19 (0-18)	190	19
Rear Center Seat	190	19 (0-18)	190	19

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 Form No. 1 for the 5th percentile female dummy in a Side NCAP MDB test. The rear center and non-struck side rear passenger's seat back are set to match the struck-side rear seat back.



Seat	Total Seat Back Angle Range		Test Position from Most Upright	
	Degrees	Detents*	Degrees	Detents*
Driver Seat w/Seated Dummy	61.1	Power	2.65	Power
Front Passenger Seat	61.2	Power	2.65	Power
Front Center Seat				
Struck Side Rear Seat	10.1	7 (0-6)	10.4	0
Non-Struck Side Rear Seat	10.1	7 (0-6)	10.4	0
Rear Center Seat	10.0	7 (0-6)	10.5	0

SEAT BELT ANCHORAGE ADJUSTMENT

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on Form No. 1. Zero is defined as the uppermost detent

Seat	Total # of Positions	Placed in Position #
Driver Seat	4 (0-3)	0

HEAD RESTRAINT ADJUSTMENT

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

Seat	Total # of Positions	Placed in Position #
Driver Seat	4 (0-3)	Lowermost

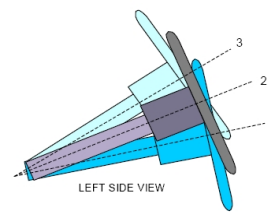
DATA SHEET NO. 2 ... (CONTINUED)
SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT AND FUEL SYSTEMS DATA

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

STEERING COLUMN POSITIONS

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

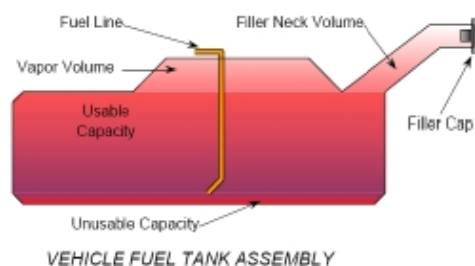


	Degrees	Fore / Aft Position (mm)
Lowermost - Position No. 1	23.5	
Geometric center - Position No. 2	26.0	
Uppermost - Position No. 3	28.5	
Telescoping Steering Wheel Travel		70
Test Position	26.0	35

FUEL PUMP

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

The vehicle is equipped with an electric fuel pump. The fuel filler neck is on the left side of the vehicle. The pump creates positive pressure in the fuel lines, pushing the gasoline to the engine. See form 1 for more information.



FUEL TANK CAPACITY

Description	Liters
Usable Capacity of "Standard Tank" - see Form No. 1	74.95
Usable Capacity of "Optional Tank" - see Form No. 1	N/A
Usable Capacity of "Standard Tank" - see Owner's Manual	74.95
Usable Capacity of "Optional Tank" - see Owner's Manual	N/A
93% of Usable Capacity	69.7
Actual Amount of Solvent Used in Test	69.75
1/3 of Usable Capacity	24.98

Is the Actual Amount of Solvent Used in the test equal to 93% ±1% of the Usable

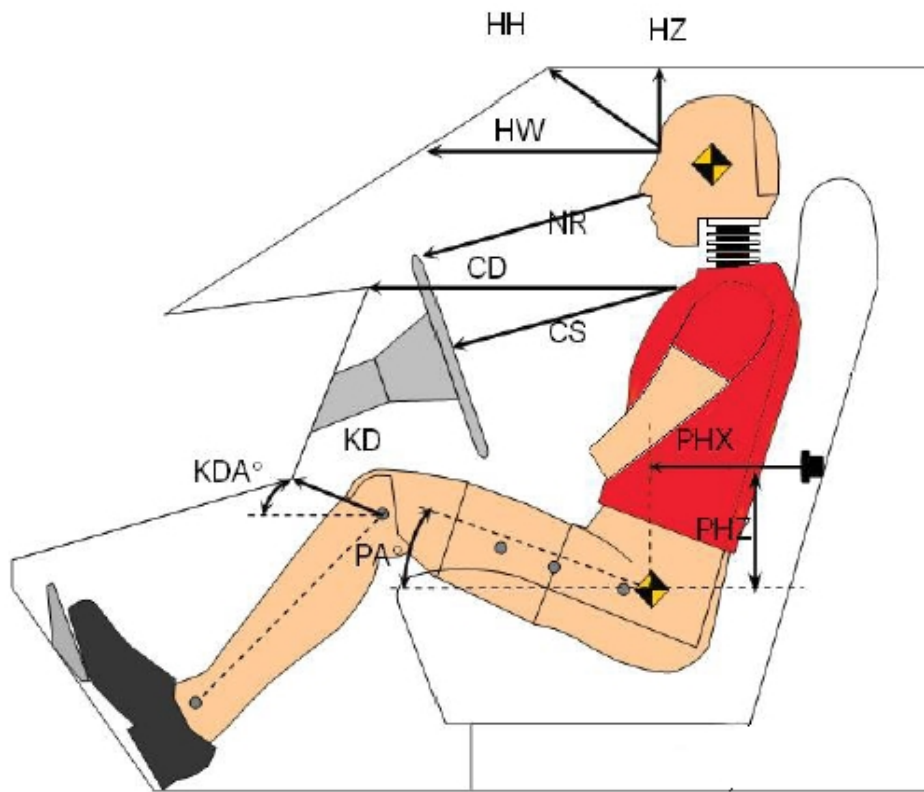
Capacity stated in Form No. 1?

Yes No

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



Left Side View

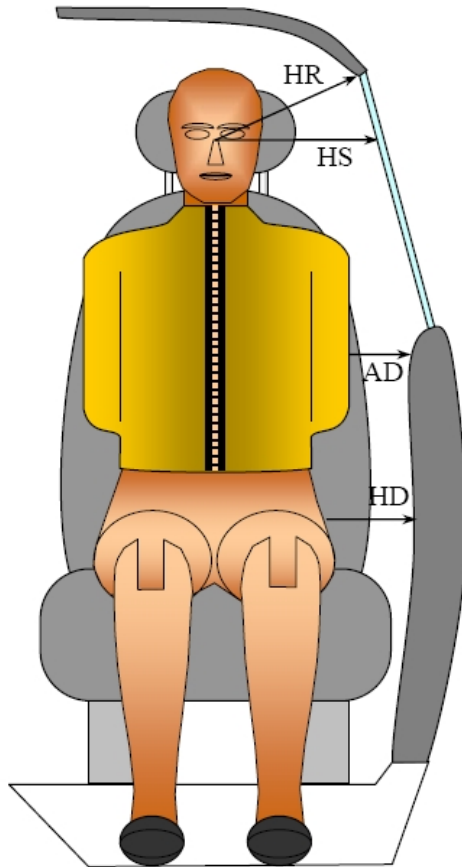
DUMMY LONGITUDINAL CLEARANCE DIMENSION INFORMATION

Driver Code	Description	Driver (Serial No. 300)	
		Length (mm)	Angle (°)
HH	Head to Header	260	
HW	Head to Windshield	520	
HZ	Head to Roof Liner	192	
NR	Nose to Rim	210	
CD	Chest to Dash	624	
CS	Chest to Steering Wheel	134	
KD(L) / KDA(L)°	Left Knee to Dash	145	37.5
KD(R) / KDA(R)°	Right Knee to Dash	139	34.5
PAX°	Pelvic Tilt Angle (X-Axis)		18.65
PAY°	Pelvic Tilt Angle (Y-Axis)		0.15
PHX	Hip Point to Striker (X-Axis)	333	
PHZ	Hip Point to Striker (Z-Axis)	57	

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



FRONT VIEW OF DUMMY

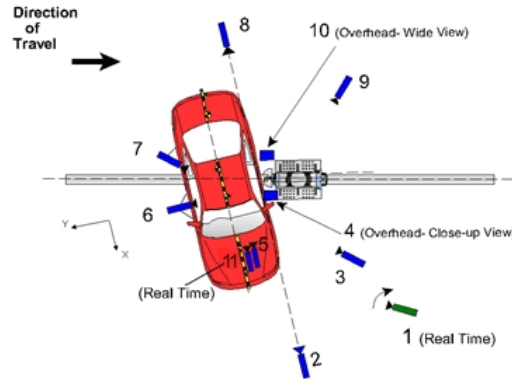
DUMMY LATERAL CLEARANCE DIMENSION INFORMATION

Code	Measurement Description	Units	Driver – Length (Serial No. 300)
HR	Head to Side Header	mm	244
HS	Head to Side Window	mm	392
AD	Arm to Door	mm	165
HD	H-Point to Door	mm	275

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



CAMERA LOCATIONS AND DATA

No.	Camera View	Location (mm)			Lens (mm)	Speed (fps)
		X	Y	Z		
1	Real-time (24 - 30 fps) pan view of impact				Zoom	30
2	Front ground level - impact view	7762	0	-1499	28	1000
3	Impact side 45° - forward pole view	5032	-720	-1410	24	1000
4	Overhead Close-up view of impact	0	0	-9375	28	1000
5	Onboard - dummy front view				25	1000
6	Onboard - dummy side view				12.5	1000
7	Onboard - dummy rear oblique view				12.5	1000
8	Rear ground level - impact view	-8809	0	-1486	28	1000
9	Impact side 45° - rearward pole view	-3925	-4106	-1538	24	1000
10	Overhead wide - view of impact	0	0	-9375	12.5	1000
11	Real-time (24 - 30 fps) - dummy front view				Zoom	30

Notes: Reference - From Point of Impact for X and Y; from Ground for Z
 +X = Forward of vehicle, +Y = Right of vehicle, +Z = Down
 * All measurements accurate to ± 6 mm. Vehicle is at a 75° angle to the rigid pole.

If applicable, explain why camera(s) did not operate as intended: All cameras operated as intended.

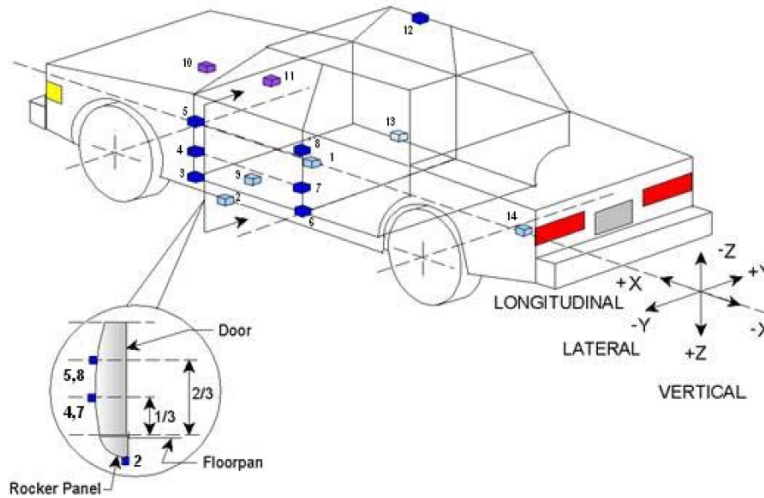
INSTRUMENTATION

Description	Number of Channels
Driver Dummy Channels	16
Vehicle Structure Accelerometers	18
Pole Load Cells	8
Total	42

DATA SHEET NO. 6
TEST VEHICLE ACCELEROMETER LOCATIONS

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



TEST VEHICLE ACCELEROMETER LOCATIONS

No.	Accelerometer Location	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	2251	44	111
2	Left Floor Sill	3088	-652	157
3	A-Pillar Sill	3401	-635	106
4	A-Pillar Low	3500	-628	-54
5	A-Pillar Mid	3314	-663	-648
6	B-Pillar Sill	2337	-702	72
7	B-Pillar Low	2379	-701	-115
8	B-Pillar Mid	2325	-676	-591
9	Driver Seat Track	2594	-563	88
10	Engine Top	4115	54	-337
11	Firewall	3829	187	-412
12	Right Roof	2408	565	-1095
13	Right Floor Sill	3011	656	110
14	Rear Floor Pan	525	-12	30

Reference: X – Rear surface of vehicle (+ forward)
 Y – Vehicle centerline (+ to right)
 Z – Ground plane (+ down)

**DATA SHEET NO. 7
RIGID POLE LOAD CELL DATA**

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
Test Date: 04/02/2025

POLE BARRIER



RIGID POLE LOAD CELL LOCATION

ID	Units	Height From Ground
1	mm	200
2	mm	590
3	mm	750
4	mm	1075
5	mm	1260
6	mm	1740
7	mm	1920
8	mm	2300

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

TEST DUMMY INFORMATION AND CONTACT POINTS

Dummy Body Part	Driver Seat Dummy (SID-IIs)
Face	Curtain Airbag
Top of Head	Curtain Airbag
Left Side of Head	Curtain Airbag
Back of Head	Curtain Airbag & Head Restraint
Left Shoulder	Torso/Pelvis Airbag
Upper Torso	Seatback
Lower Torso	Seatback
Left Hip	Torso/Pelvis Airbag & Seat Pan
Left Knee	Door Trim

POST-TEST DOOR PERFORMANCE

Description	Struck Side		Non-Struck Side		Rear Hatch/ Other
	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, Width of Opening at Striker (mm)	0	0	0	0	0

POST-TEST SEAT PERFORMANCE

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

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

POST-TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	A-Pillar & B-Pillar Buckled
Sill Separation	670mm of sill separation near impact zone
Windshield Damage	Cracked throughout, separation at A-Pillar
Side Window Damage	Driver window cracked throughout
Other Notable Effects	None

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

Restraint Type	Struck Side Driver		Struck Side Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Front Airbag	Yes	No		
Knee Airbag	Yes	No		
Side Airbag 1 - Curtain	Yes	Yes	Yes	Yes
Side Airbag 2 - Torso/Pelvis Airbag	Yes	Yes	No	N/A
Seat Belt Pretensioner	Yes	Yes	Yes	No
Seat Belt Load Limiter	Yes	Yes	Yes	No
Other				

VEHICLE SPEED, VEHICLE ANGLE AT IMPACT AND IMPACT POINT LOCATION DATA

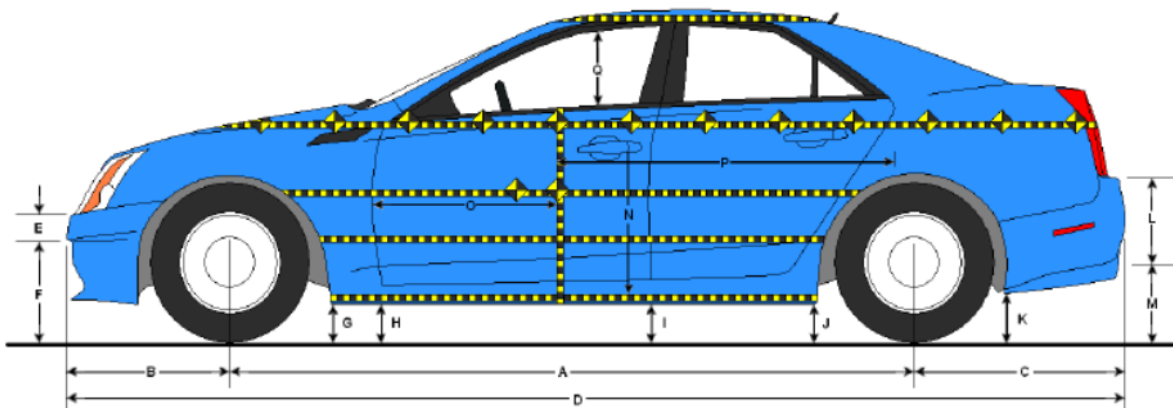
Measured Parameter	Units	Tolerance	Value
Vertical Impact Ref Line - Aft of Front Axle, Intended Impact Pt	mm		1078
Actual Impact Point - Aft of Front Axle	mm		1080
Horizontal Offset (+ forward / - rearward)	mm	+/- 38*	-2
Angle Between Vehicle's Longitudinal Centerline and Line of Forward Motion	deg	75 +/- 3	75
Trap No. 1 Velocity - Primary	kph	31.4 to 33.0	32.33
Trap No. 2 Velocity - Redundant	kph	31.4 to 33.0	32.38

*Of Intended Impact Point

**DATA SHEET NO. 9
TEST VEHICLE PROFILE MEASUREMENTS**

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



LEFT SIDE VIEW

VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION

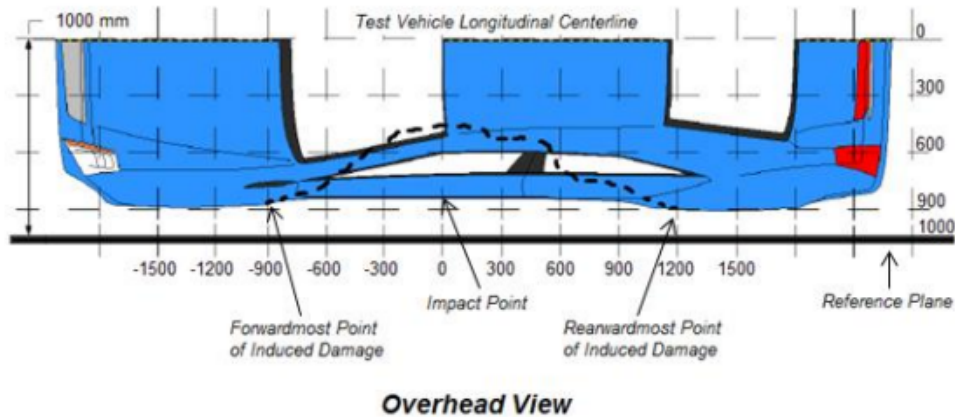
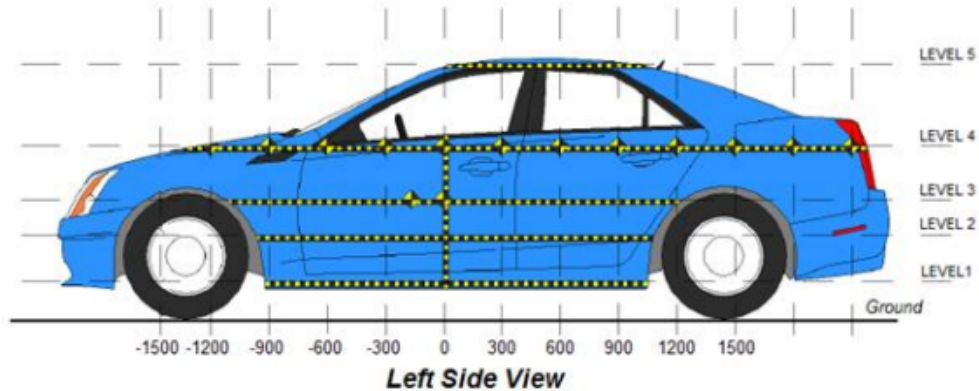
No.	Measurement Description	Pre-Test	Post-Test	Change
A	Vehicle Wheelbase	2898	2836	-62
B	Front Axle to FSOV	968	999	31
C	Rear Axle to RSOV	1047	1049	2
D	Total Length at Centerline	4912	4884	-28
E	Front Bumper Thickness	135	135	0
F	Front Bumper Bottom to Ground	485	494	9
G	Sill Height at Front Wheel Well	256	253	-3
H	Sill Height at Front Door Leading Edge	264	254	-10
I	Sill Height at B Pillar	269	293	24
J1	Sill Height at Rear Wheel Well	280	298	18
J2	Pinch Weld Height at Rear Wheel Well	286	303	17
K	Sill Height Aft of Rear Wheel Well	302	309	7
L	Rear Bumper Thickness	145	145	0
M	Rear Bumper Bottom to Ground	491	484	-7
N	Sill Height to Bottom of Front Window Sill	848	848	0
O	Front Door Leading Edge to Impact CL	587	529	-58
P	Rear Door Trailing Edge to Impact CL	1636	1591	-45
Q	Front Window Opening	355	326	-29
R	Right Side Length	4802	4795	-7
S	Left Side Length	4802	4753	-49
T	Vehicle Width at B-Pillars	1946	1931	-15
U	Front Wheel Track width	1656	1656	0
V	Rear Wheel Track Width	1656	1660	4

* All measurements in mm with tolerance of ± 3 mm

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



MAXIMUM EXTERIOR CRUSH MEASUREMENTS

Level	Measurement Description	Units	Height Above Ground	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	mm	457	228	0
2	Driver H-Point	mm	728	260	150
3	Mid-Door	mm	802	269	150
4	Window Sill	mm	1119	232	150
5	Window Top	mm	1628	44	150

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

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

EXTERIOR CRUSH MEASUREMENTS AT EACH LEVEL

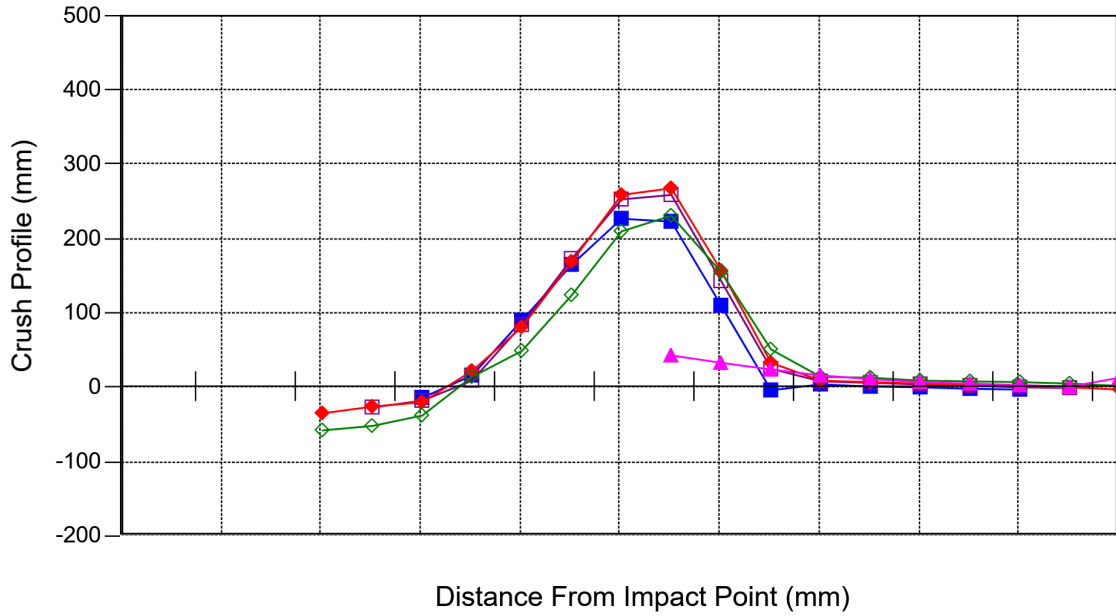
	Pre-Test					Post-Test					Crush				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-1500															
-1350															
-1200															
-1050															
-900			971	848				1005	905				-34	-57	
-750		969	966	858			995	991	909			-26	-25	-51	
-600	957	964	964	867		970	981	983	904		-13	-17	-19	-37	
-450	952	963	963	883		935	953	940	868		17	10	23	15	
-300	944	959	962	888		853	874	880	838		91	85	82	50	
-150	945	955	959	897		779	781	789	772		166	174	170	125	
0	944	951	957	904		716	697	697	693		228	254	260	211	
150	943	947	954	912	619	719	687	685	680	575	224	260	269	232	44
300	944	944	951	919	630	833	800	793	763	596	111	144	158	156	34
450	944	942	949	921	632	947	916	915	869	607	-3	26	34	52	25
600	940	942	949	924	632	935	933	939	909	615	5	9	10	15	17
750	938	946	951	922	632	936	939	943	908	620	2	7	8	14	12
900	938	952	954	921	631	937	947	948	911	623	1	5	6	10	8
1050	939	958	958	919	629	940	955	954	910	623	-1	3	4	9	6
1200	944	964	963	916	625	946	963	961	908	621	-2	1	2	8	4
1350		970	967	909	620		970	966	903	618		0	1	6	2
1500			972	902	612			974	899	598			-2	3	14

NOTE: Pre-test measurements are taken when the vehicle is in the “As Tested” weight condition. Vehicle measurements forward of the vertical impact reference line are negative. The crush profile grid is established prior to the test based on an estimated impact point. The final distance from impact is determined after the final dummy positioning and the pole is aligned with the center of gravity of the dummy’s head.

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

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025



— LEVEL 1 Side Sill: 457 mm above ground	— LEVEL 2 H-Point: 728 mm above ground	— LEVEL 3 Mid Door: 802 mm above ground
— LEVEL 4 Window Sill: 1119 mm above ground	— LEVEL 5 Window Top: 1628 mm above ground	

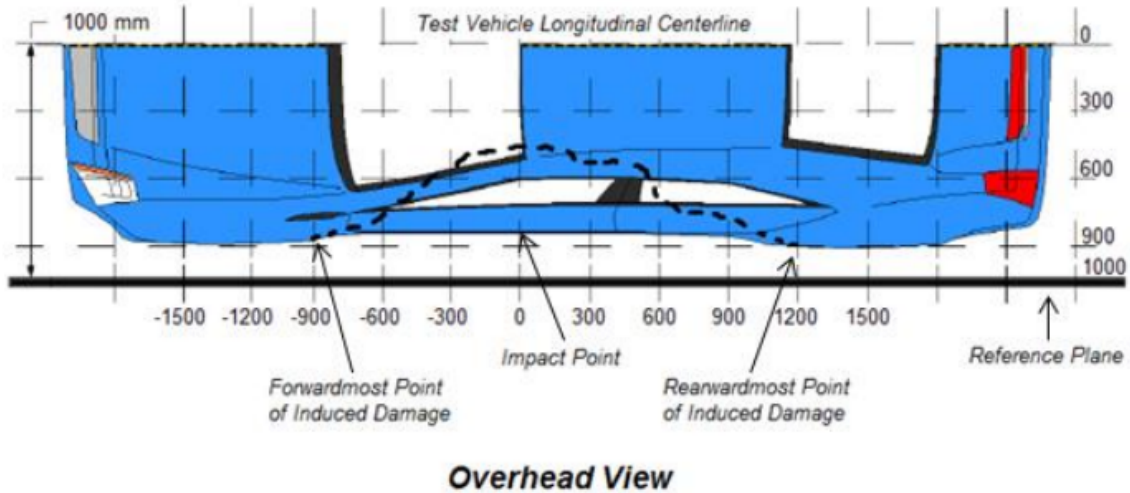
Vehicle Exterior Crush Measurements - Visual Representation

**DATA SHEET NO.11
VEHICLE DAMAGE PROFILE DISTANCES**

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
 Test Date: 04/02/2025

For guidance regarding damage profile distance measurements, please refer to the latest version of the *NHTSA Test Reference Guide, Volume 1: Vehicle Tests*.



VEHICLE DAMAGE PROFILE DISTANCES

DPD	Distance From Impact Point (mm)	Level	Post-Test (mm)	Pre-Test (mm)	Crush (mm)
1	-900	3	-5	29	-34
2	-420	3	72	37	35
3	60	3	308	44	264
4	540	3	71	51	20
5	1020	3	47	43	4
6	1500	3	26	28	-2

**DATA SHEET NO.12
FMVSS NO.301 STATIC ROLLOVER RESULTS**

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
 Test Program: NCAP Side Pole Impact Test

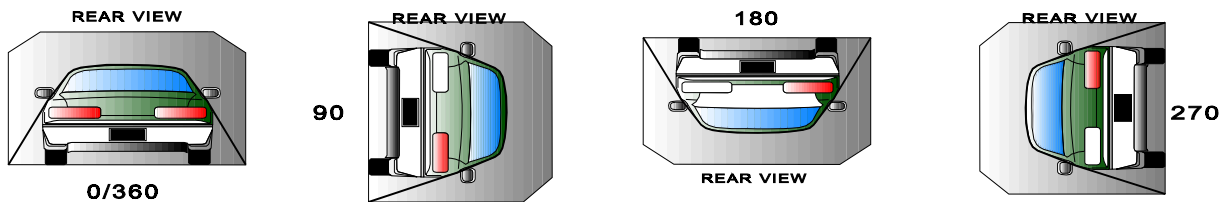
NHTSA No.: M20250205
 Test Date: 04/02/2025

Test Time: 11:28 AM

Temperature: 21 °C

- A. From impact until vehicle motion ceases: _____ 0 oz
 (Maximum allowable is 1 oz.)
- B. For the 5-minute period after motion ceases: _____ 0 oz
 (Maximum allowable is 5 oz.)
- C. For the following 25 minutes: _____ 0 oz
 (Maximum allowable is 1 oz.)

D. Spillage Detail: _____ No Spillage



ROLLOVER SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° to 90°	72	300	372
90° to 180°	65	300	365
180° to 270°	66	300	366
270° to 360°	68	300	368

FMVSS 301 SPILLAGE TABLE

Test Phase	First 5 Minutes	Sixth Minute	Seventh Minute	Eighth Minute
0° to 90°	0	0	0	
90° to 180°	0	0	0	
180° to 270°	0	0	0	
270° to 360°	0	0	0	

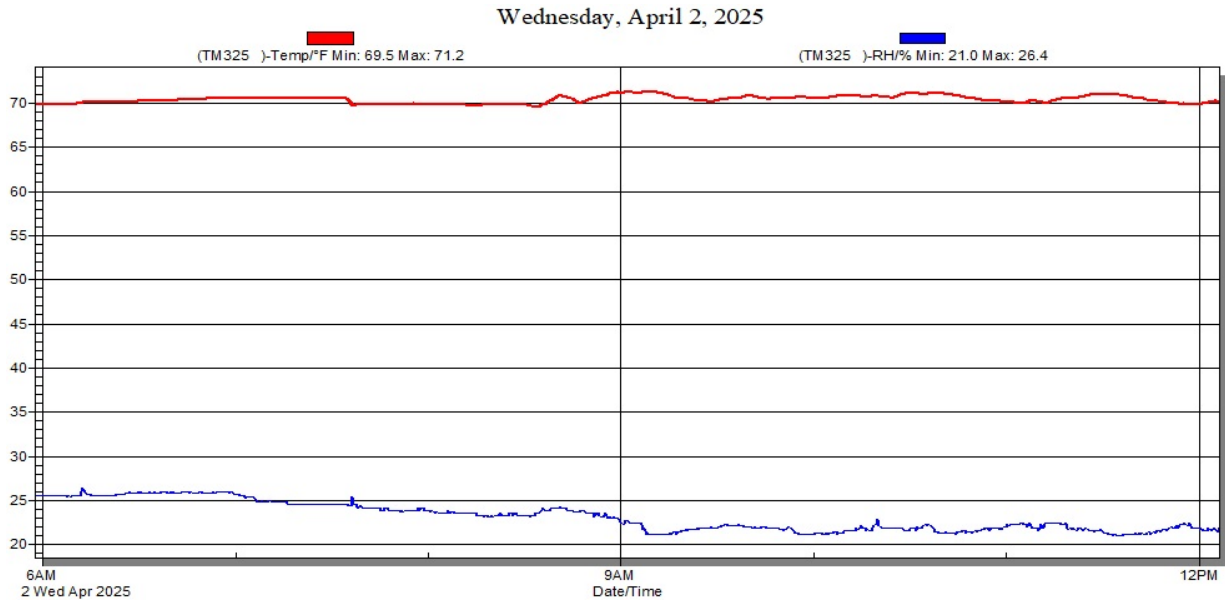
SOLVENT SPILLAGE LOCATION TABLE

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

DATA SHEET NO. 13
DUMMY / VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION DATA

Test Vehicle: 2025 Lincoln Nautilus 5 Door SUV
Test Program: NCAP Side Pole Impact Test

NHTSA No.: M20250205
Test Date: 04/02/2025



Temperature and Humidity Stabilization Chart/Data for Dummies and Test Vehicle

APPENDIX A
PHOTOGRAPHS

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Figure A-1: As Delivered Right Front $\frac{3}{4}$ View of Test Vehicle



Figure A-2: As Delivered Left Rear $\frac{3}{4}$ View of Test Vehicle



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



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



Figure A-5: Pre-Test Left Front $\frac{3}{4}$ View of Test Vehicle



Figure A-6: Post-Test Left Front $\frac{3}{4}$ View of Test Vehicle



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



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



Figure A-9: Pre-Test Left Rear $\frac{3}{4}$ View of Test Vehicle



Figure A-10: Post-Test Left Rear $\frac{3}{4}$ View of Test Vehicle

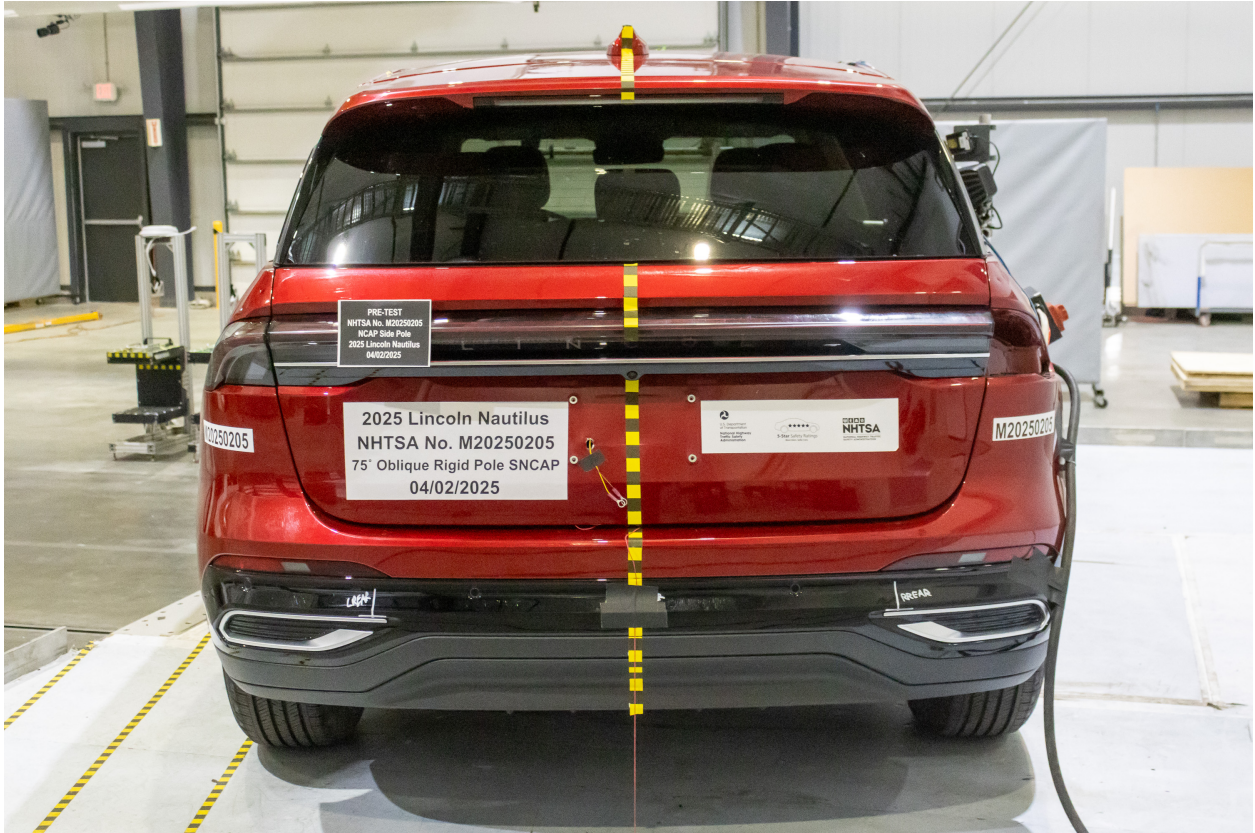


Figure A-11: Pre-Test Rear View of Test Vehicle

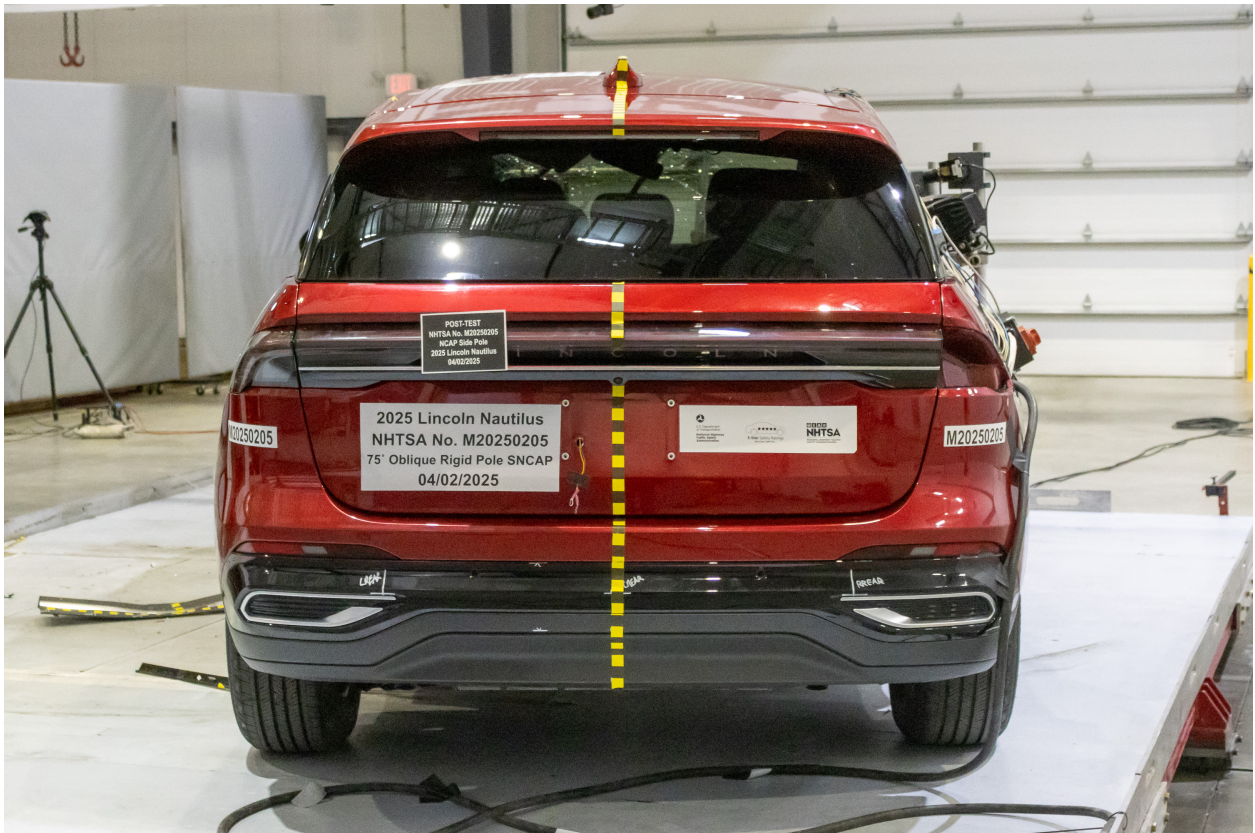


Figure A-12: Post-Test Rear View of Test Vehicle



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



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



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



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



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



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



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



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



Figure A-21: Pre-Test Front Close-Up View of Dummy Head and Chest



Figure A-22: Post-Test Front Close-Up View of Dummy



Figure A-23: Pre-Test Left Side View of Dummy Showing Belt and Chalking



Figure A-24: Pre-Test Left Side View of Dummy Shoulder and Door Top View



Figure A-25: Post-Test Left Side View of Dummy Shoulder and Door Top View



Figure A-26: Pre-Test Frontal View of Seat Back Prior to Dummy Positioning

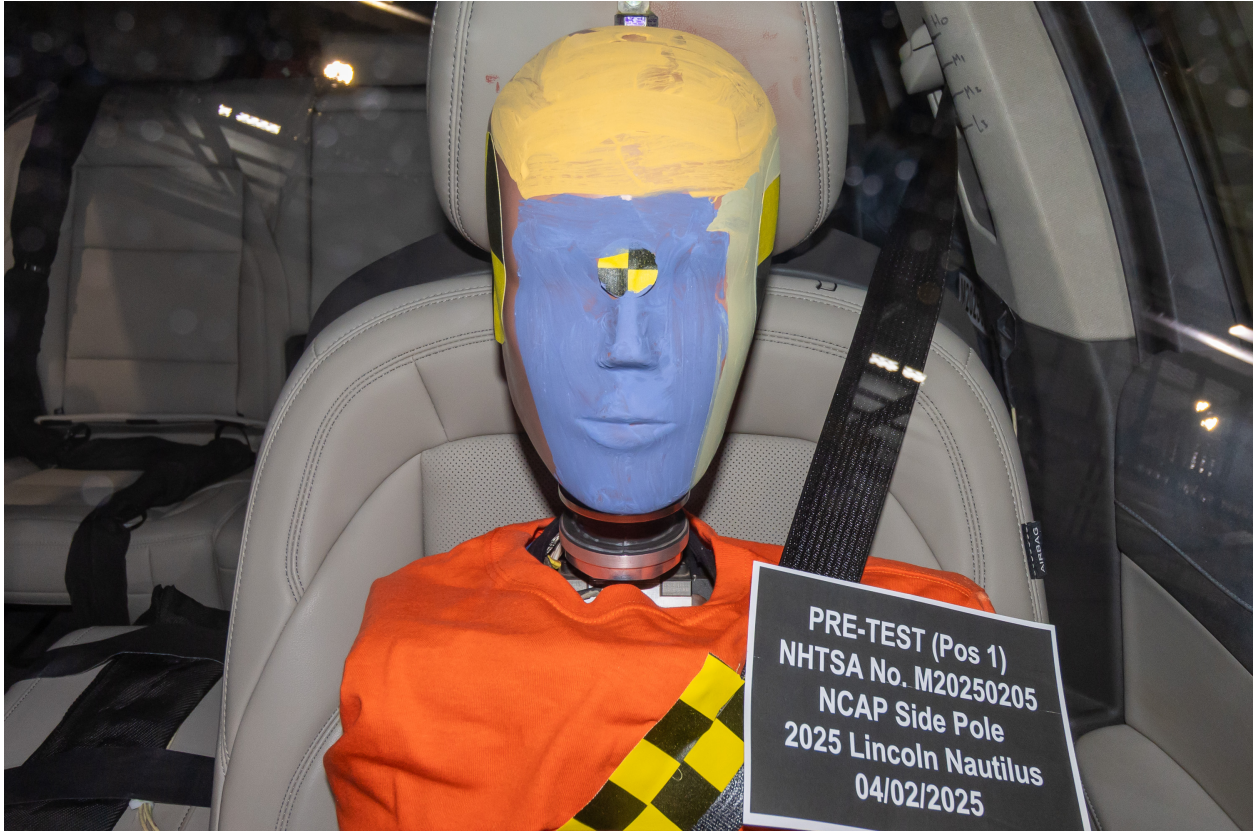


Figure A-27: Pre-Test Frontal Close-Up View of Dummy Head / Shoulders in Relation to Head Restraint



Figure A-28: Pre-Test Frontal View of Seat Pan Prior to Dummy Positioning



Figure A-29: Pre-Test Overhead View of Dummy Thighs on Seat Pan

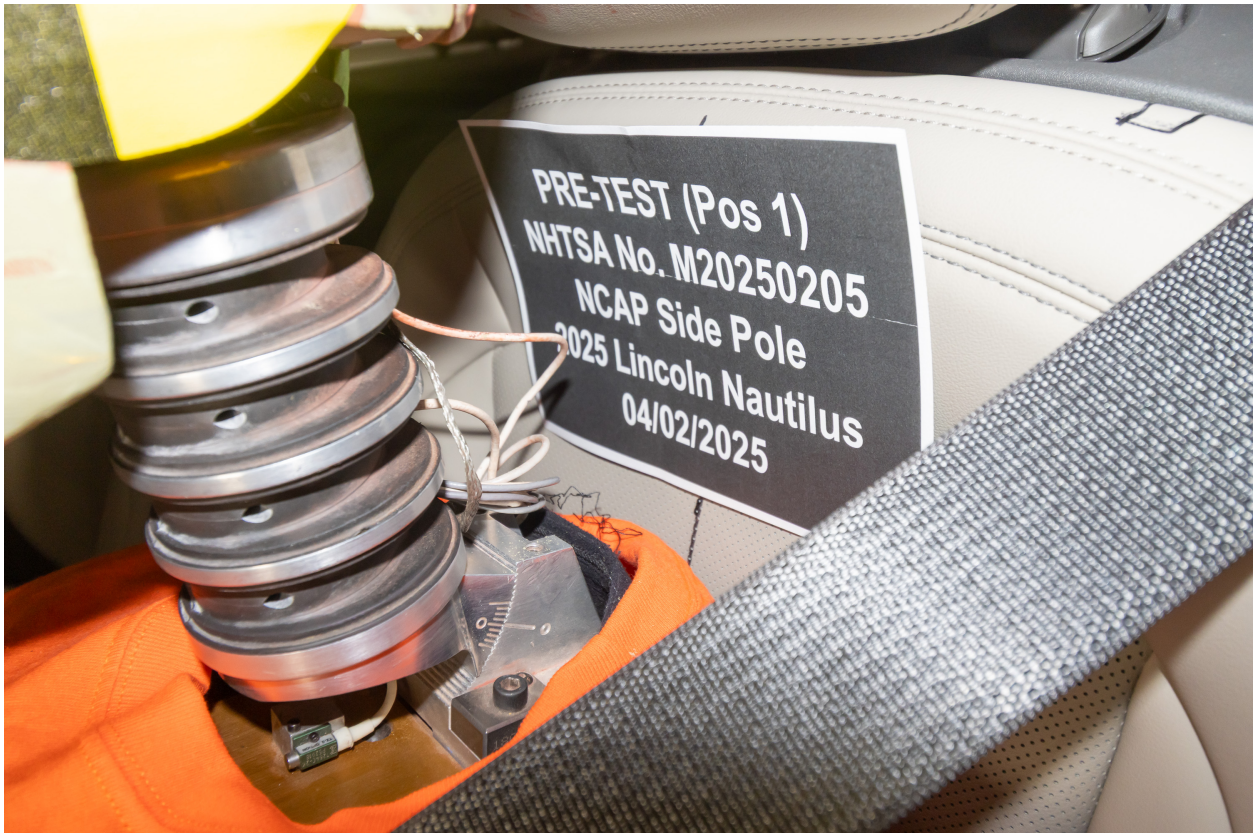


Figure A-30: Pre-Test Left Side View of Dummy's Neck Showing Position of Adjustable Neck Bracket

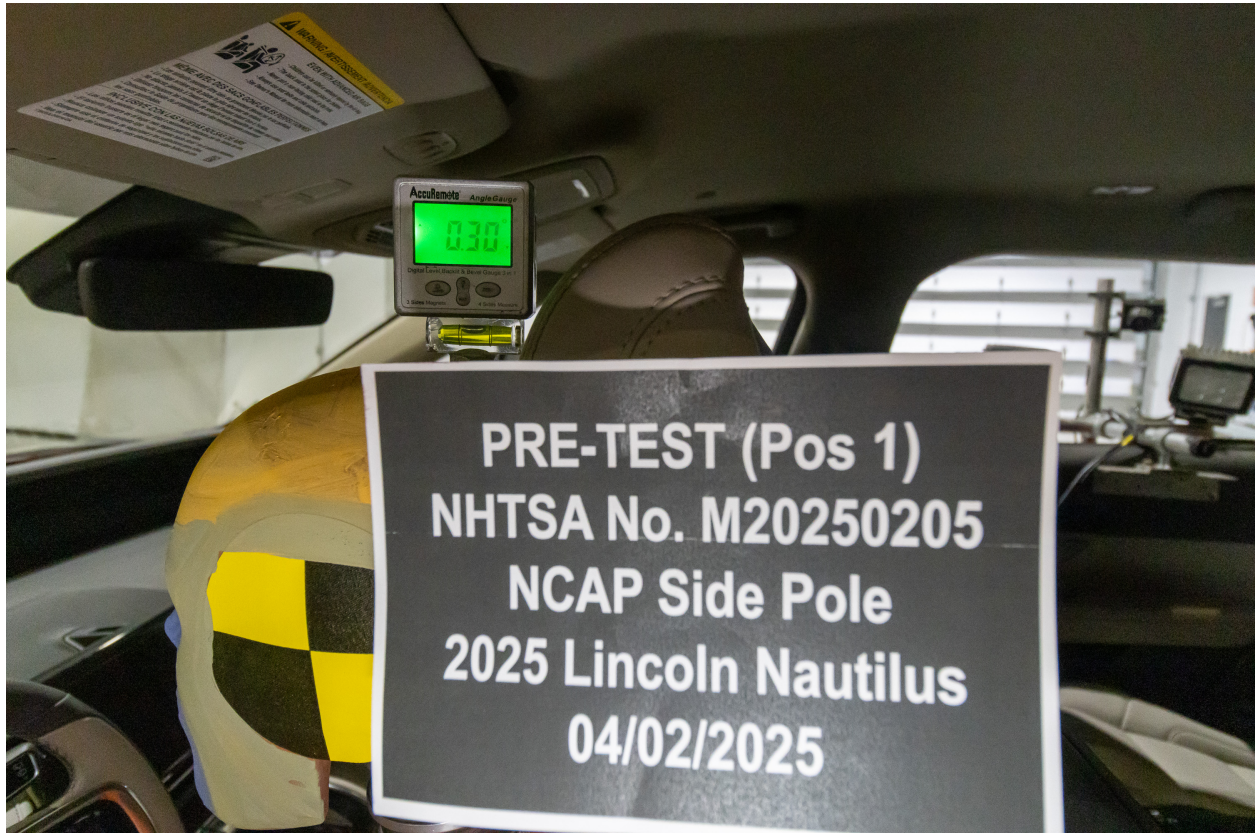


Figure A-31: Pre-Test Left Side View of Dummy's Head Showing Dummy's Head is Level



Figure A-32: Pre-Test Placement of Dummy's Feet

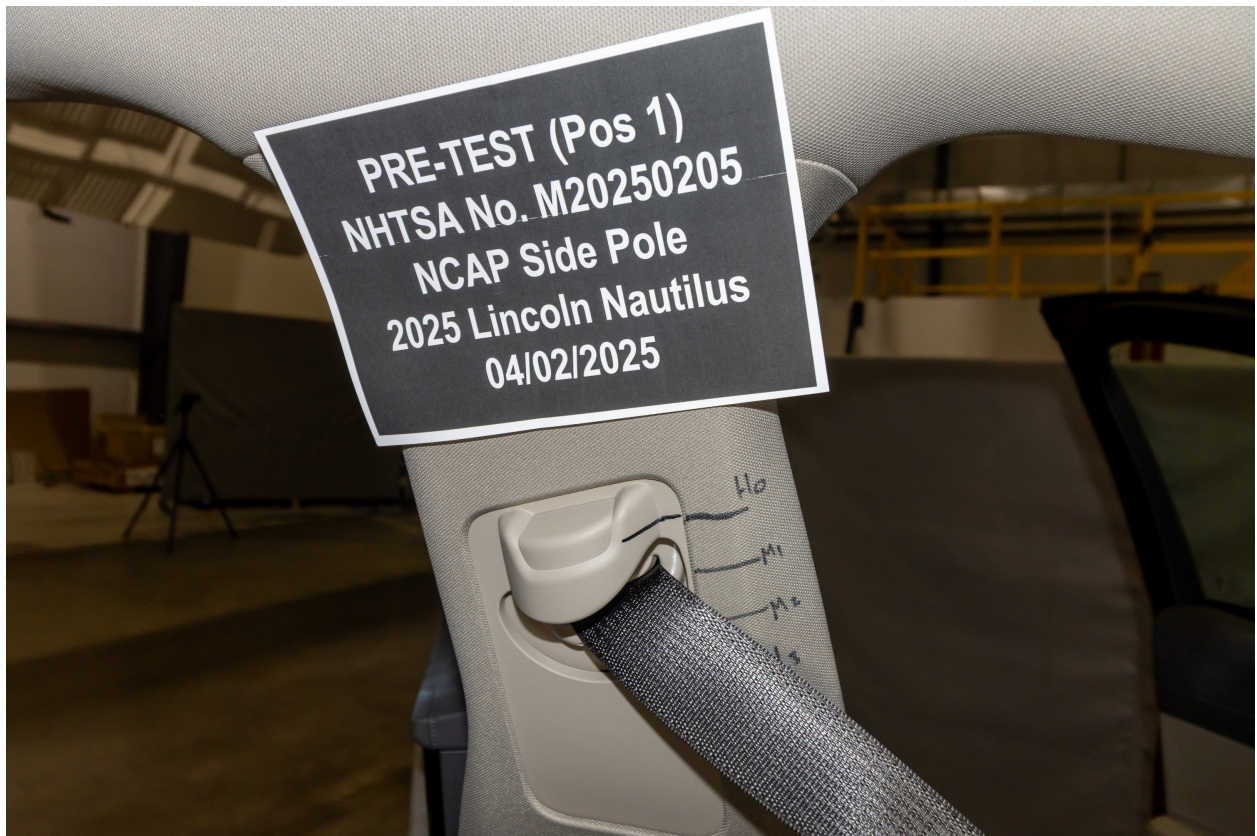


Figure A-33: Pre-Test View of Belt Anchorage for Dummy

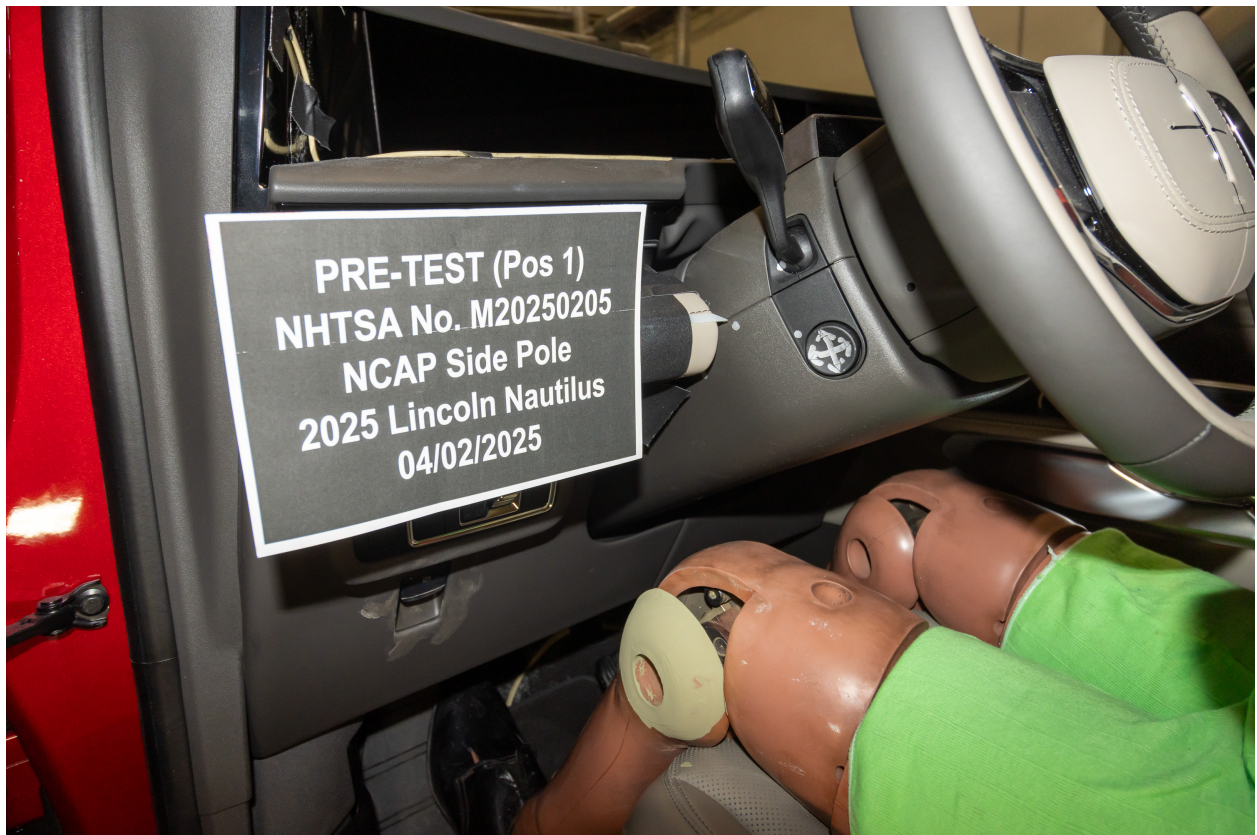


Figure A-34: Pre-Test Left Side View of Steering Wheel



Figure A-35: Pre-Test View of Disengaged Parking Brake

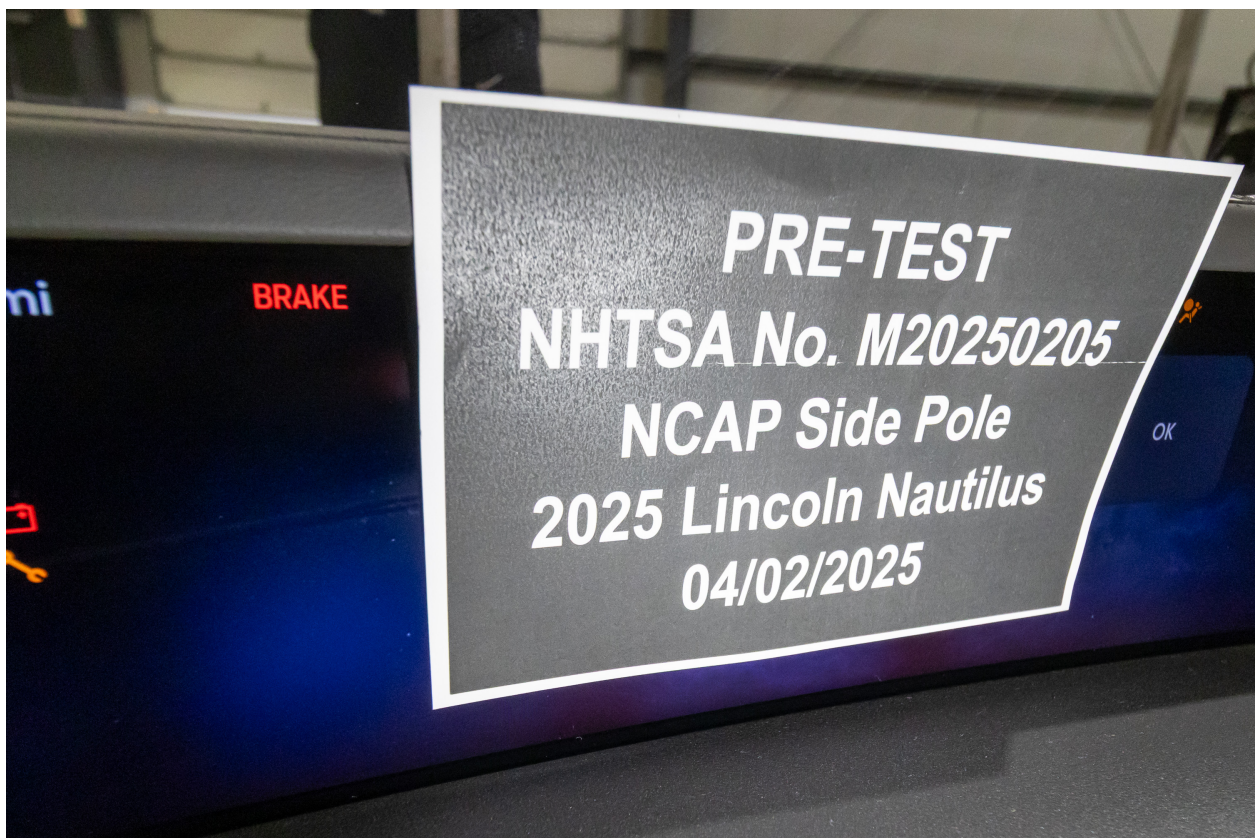


Figure A-36: Pre-Test View of Parking Brake

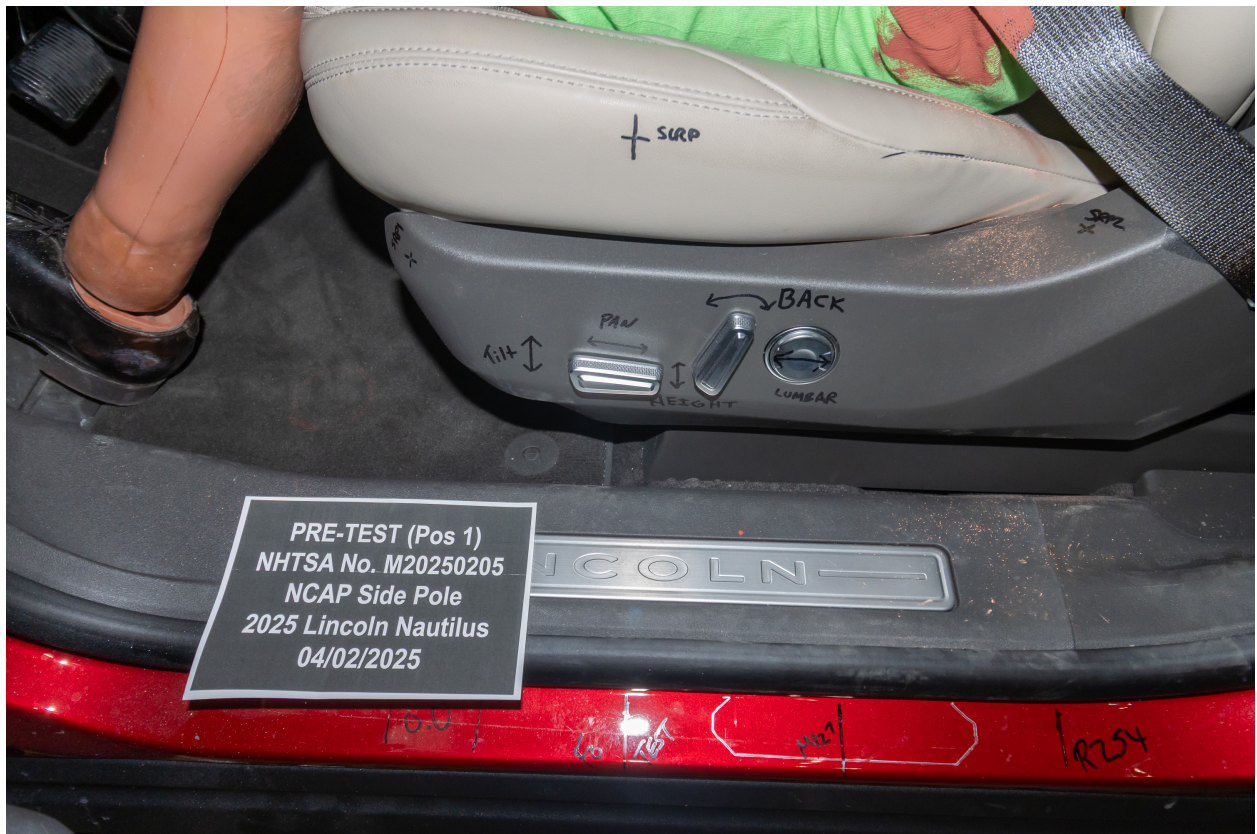


Figure A-37: Pre-Test Close-Up Left Side View of Driver Seat Track

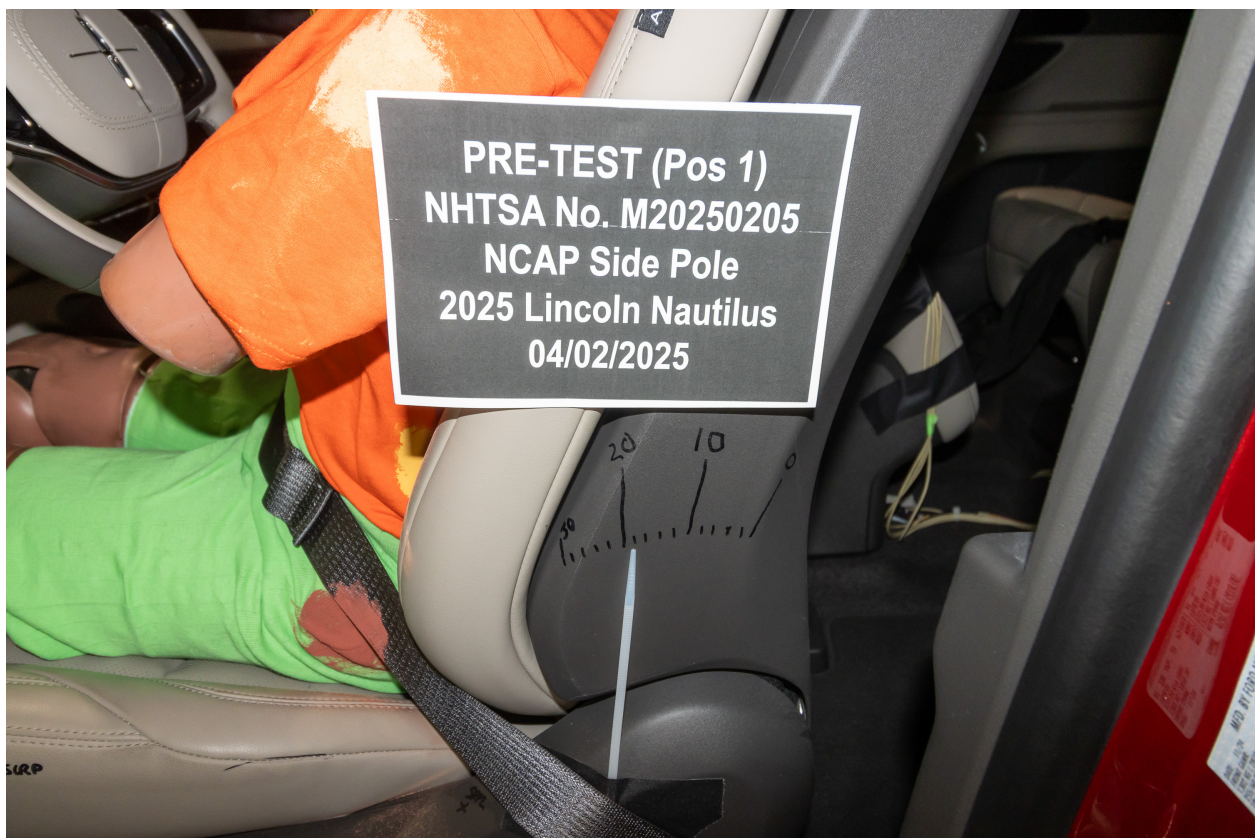


Figure A-38: Pre-Test Close-Up Left Side View of Driver Seat Back

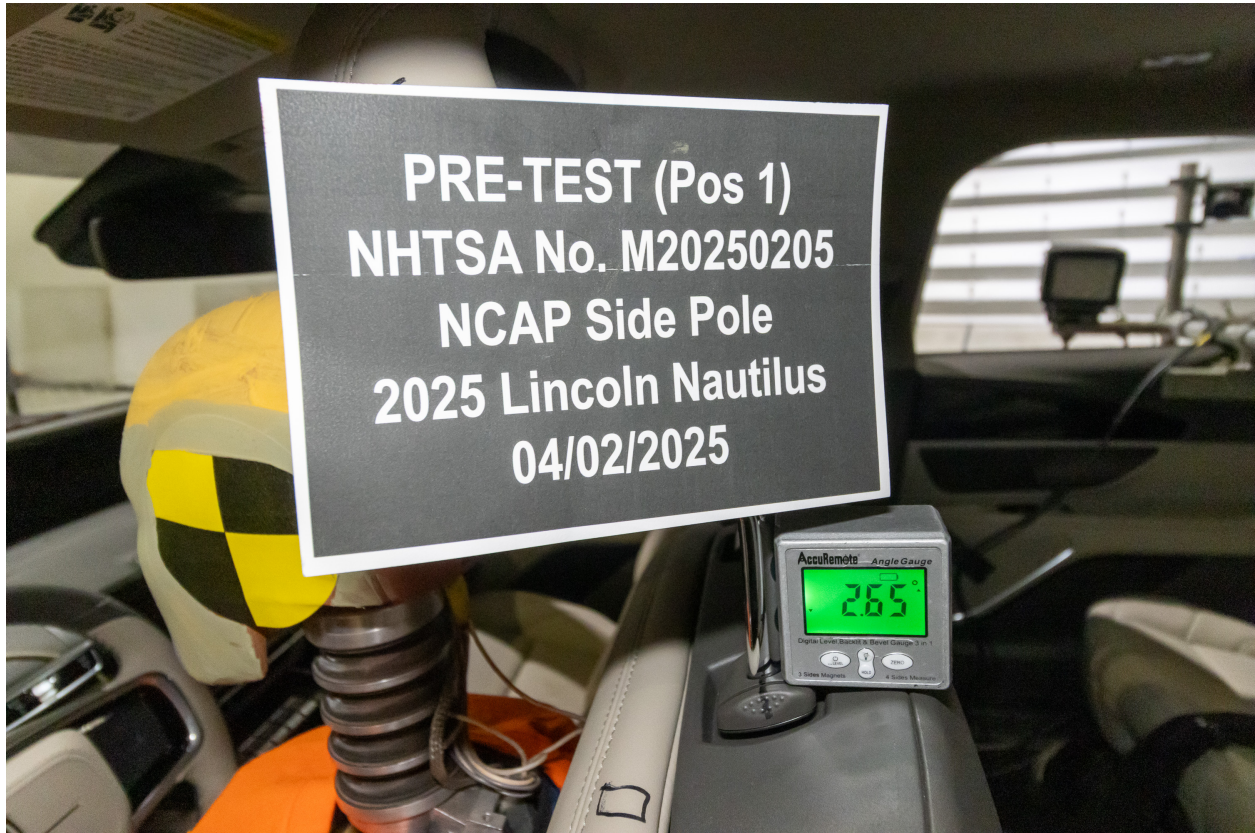


Figure A-39: Pre-Test Close-Up View of Driver Seat Back or Head Restraint



Figure A-40: Pre-Test Dummy and Door Clearance View



Figure A-41: Post-Test Dummy and Door Clearance View



Figure A-42: Pre-Test Right Side View of Dummy and Front Seat of Occupant Compartment



Figure A-43: Post-Test Right Side View of Dummy and Front Seat of Occupant Compartment



Figure A-44: Pre-Test Inner Door Panel View



Figure A-45: Post-Test Inner Door Panel View Showing Dummy Contact Location



Figure A-46: Post-Test Dummy Close-Up Head Contact with Vehicle Interior View



Figure A-47: Post-Test Dummy Close-Up Head Contact with Side Airbag View



Figure A-48: Post-Test Dummy Close-Up Torso Contact with Vehicle Interior View



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



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



Figure A-51: Post-Test Dummy Close-Up Pelvis Contact with Side Airbag View



Figure A-52: Post-Test Dummy Close-Up Knee Contact with Vehicle Interior View



Figure A-53: Pre-Test Right Side View of Dummy and Rear Seat of Occupant Compartment



Figure A-54: Post-Test Inner Rear Passenger Torso Air Bag Deployment View



Figure A-55: Pre-Test View of Fuel Filler Cap or Fuel Filler Neck



Figure A-56: Post-Test View of Fuel Filler Cap or Fuel Filler Neck



Figure A-57: Close-Up View of Vehicle's Certification Label



Figure A-58: Close-Up View of Vehicle's Tire Information Placard or Label

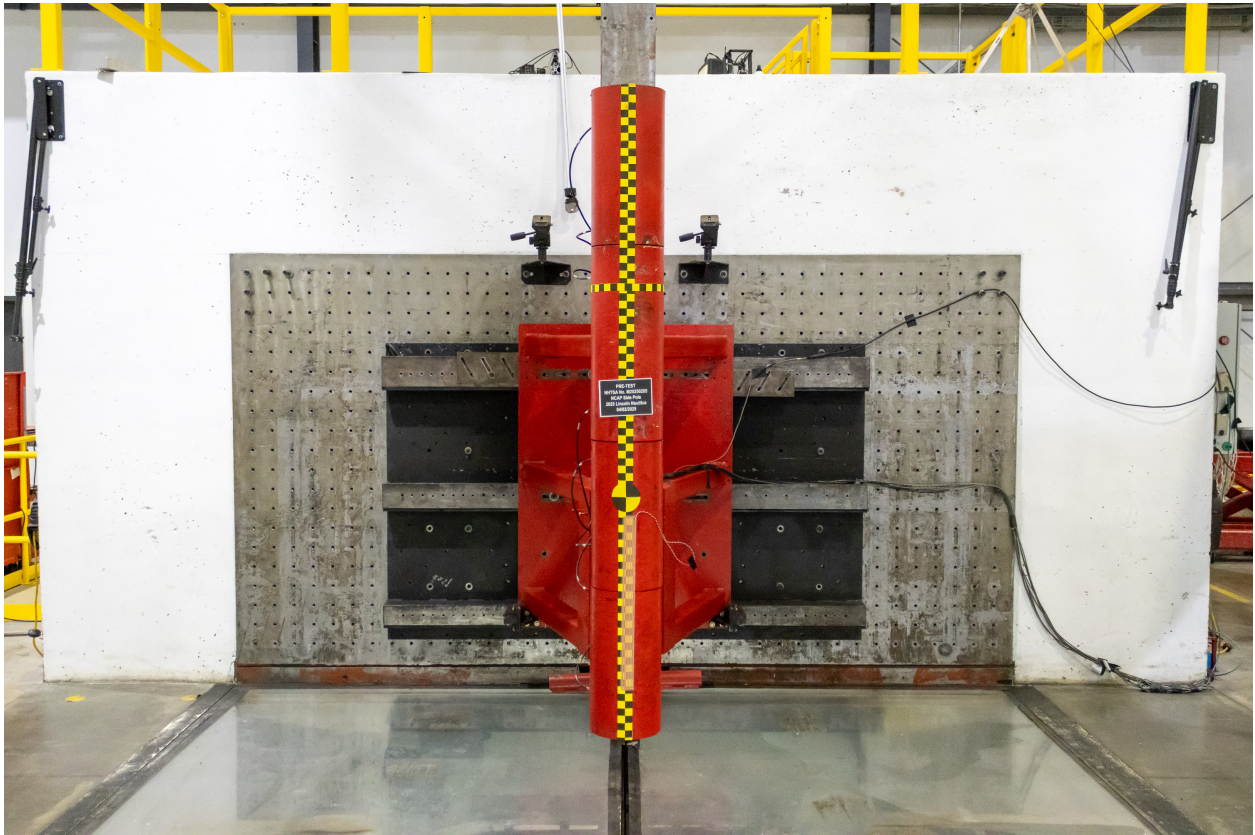


Figure A-59: Pre-Test Pole Barrier Front View



Figure A-60: Post-Test Pole Barrier Front View

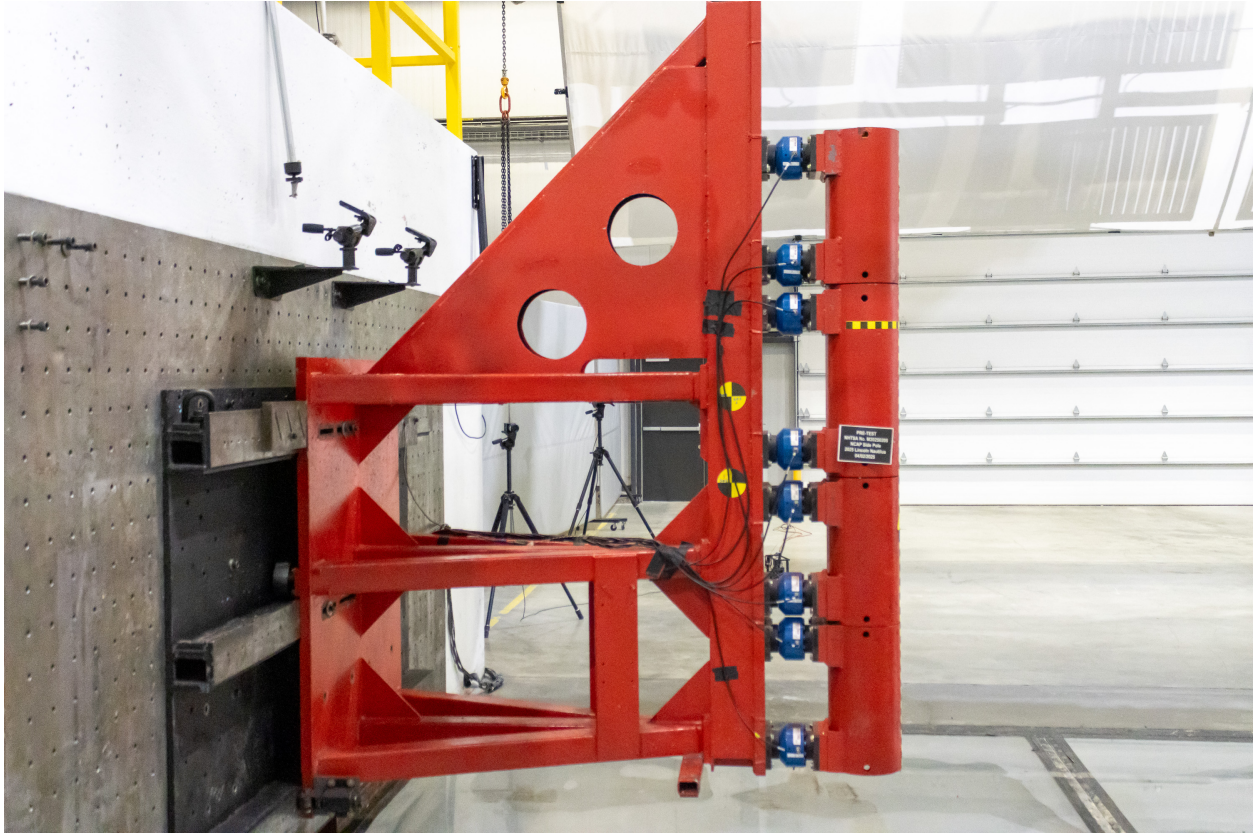


Figure A-61: Pre-Test Pole Barrier Side View



Figure A-62: Post-Test Pole Barrier Side View



Figure A-63: Pre-Test Ballast View

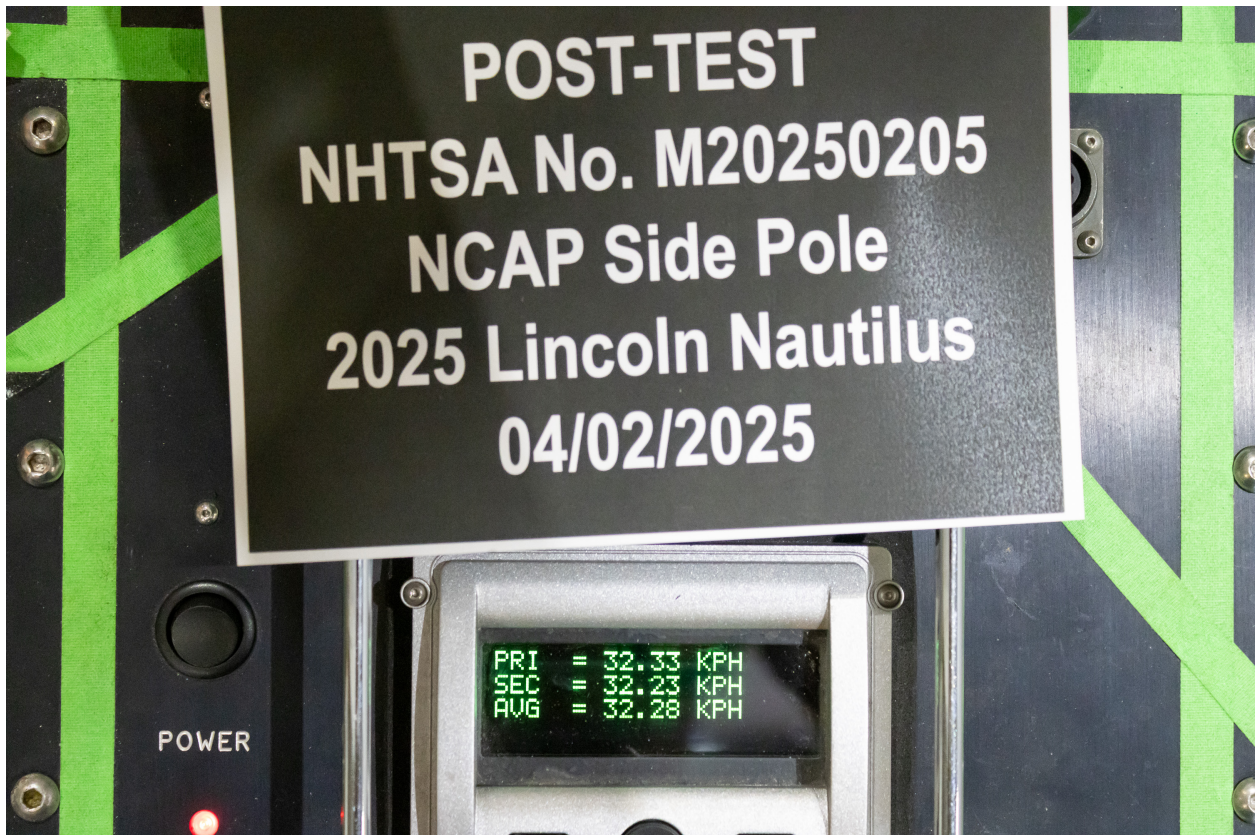


Figure A-64: Post-Test Primary and Redundant Speed Trap Read-Out



Figure A-65: FMVSS No. 301 Static Rollover 0 Degrees

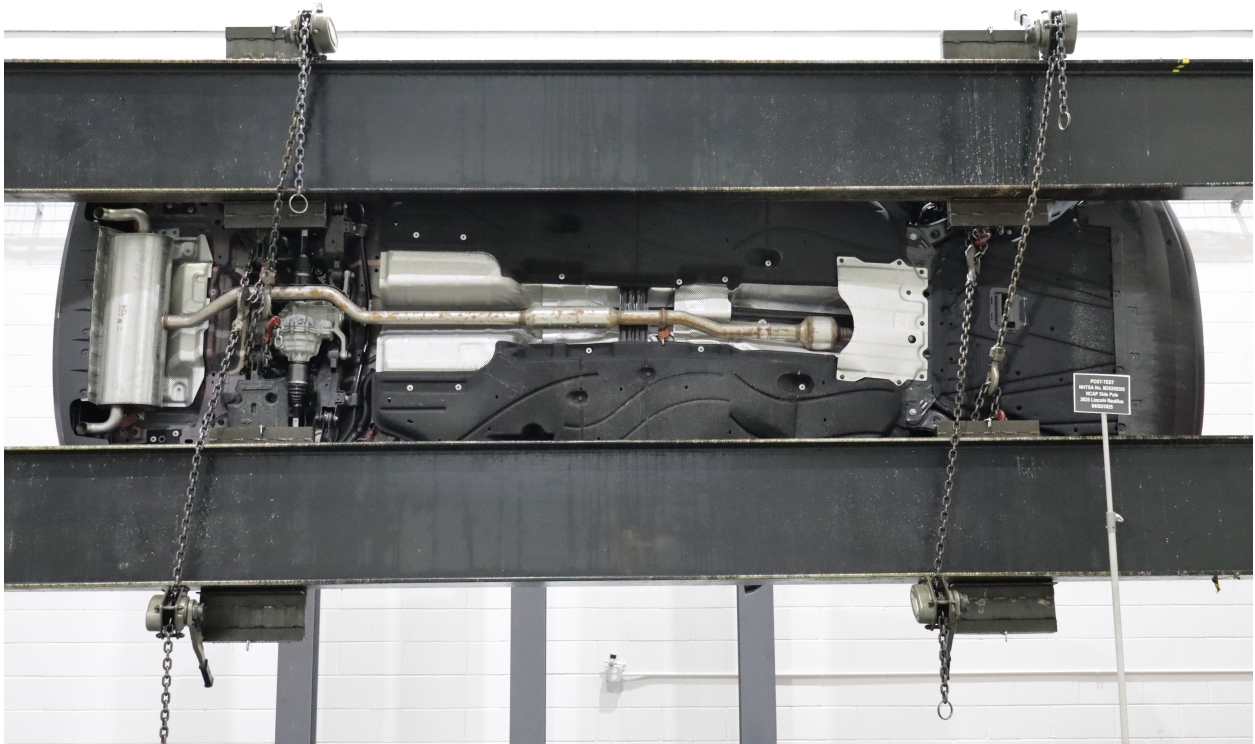


Figure A-66: FMVSS No. 301 Static Rollover 90 Degrees



Figure A-67: FMVSS No. 301 Static Rollover 180 Degrees



Figure A-68: FMVSS No. 301 Static Rollover 270 Degrees



Figure A-69: FMVSS No. 301 Static Rollover 360 Degrees



Figure A-70: Impact Event

VEHICLE DESCRIPTION

LINCOLN NAUTILUS SJ 910887

2025 AWD PREMIERE I
5-PASSENGER
2.0L TURBOCHARGED 14 ENGINE
8-SPD AUTO TRANSMISSION

EXTERIOR
RED CARPET MET CC
INTERIOR
LINCOLN SOFT TOUCH LT TRUFL

STANDARD EQUIPMENT INCLUDED AT NO EXTRA CHARGE

<p>EXTERIOR</p> <ul style="list-style-type: none"> EASY FUELS CAPLESS FILLER FULL LED HEADLAMPS GRILLE-BRIGHT CHROME JEWELS HEATED WIPER PARK LINCOLN EMBRACE LED TAILLAMPS MIRRORS HEATED/AUTOFOLD/ SIGNALISEC APPROACH LAMPS POWER LIFTGATE PRIVACY GLASS REAR WIPER WASHER/DEFROST 	<p>INTERIOR</p> <ul style="list-style-type: none"> 11.1 CENTERSTACK SCREEN AUTO-DIMMING REARVIEW MIRR CARGO MANAGEMENT SYSTEM DUAL-ZONE CLIMATE CONTROL HEATED STEERING WHEEL LEATHER WRAPPED STR WHEEL PANORAMIC DISPLAY POWER TILT/TELESCOPING STEERING COLUMN W/ MEMORY SEAT-2ND ROW 60/40 EASY-FOLD SEATS - COMFORT 10-WAY PWR DRIVE AND 4-WAY PWR PASS SEATS HEATED FRONT W/DRIVER MEMORY SETTING 	<p>FUNCTIONAL</p> <ul style="list-style-type: none"> 360 DEGREE CAMERA ADAPTIVE CRUISE CONTROL BLIS W/ CROSS-TRAFFIC ALERT ELECTRIC PWR ASST STEERING INTELL ACCESS W/ PUSH START LANE-KEEPING SYSTEM LINCOLN CONNECT™ - 5G MODEM WIFI CAPABILITY LINCOLN CO-PILOT360™ DR2.0 LINCOLN DIG EXPERIENCE PHONE AS A KEY (PAK) PRESN CONNECTIVITY-4FS PLAN REAR PARKING SENSORS SECURICODE™ KEYLESS KEYPAD WIRELESS CHARGING PAD 	<p>SAFETY/SECURITY</p> <ul style="list-style-type: none"> ADVANCETRAC™ WITH RSC AIRBAGS-DUAL-STAGE FRONT AIRBAGS-SIDE IMPACT/SAFETY CANOPY SIDE AIR CURTAINS AUTO HIGH BEAMS PERMETER ALARM PERSONAL SAFETY SYSTEM™ PRE-COLLISION ASSIST W/ AEB SOS POST-CRASH ALERT 911™ TIRE PRESSURE MONITOR SYS <p>WARRANTY</p> <ul style="list-style-type: none"> 4YR/50K MILE WARRANTY 4YR/50K PICKUP/DELIVERY SVC 6YR/70K MI POWERTRAIN WARR
--	--	--	---

Fuel Economy and Environment Gasoline Vehicle

Fuel Economy **24** MPG combined city/hwy, **21** city, **29** highway

Small SUVs range from 14 to 116 MPG. The best vehicle rates 143 MPG.

You spend \$1,500 more in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost \$2,200

Fuel Economy & Greenhouse Gas Rating (table only) **Smog Rating** (table only)

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 23 MPG and costs \$3,500 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$3.50 per gallon. MPGE is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fuel economy.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	Not Rated
	Passenger	Not Rated

Based on the risk of injury in a frontal impact. Should ONLY be compared to other vehicles of similar size and weight.

Side Crash	Front seat	Not Rated
	Rear seat	Not Rated

Based on the risk of injury in a side impact.

Rollover Not Rated

Based on the risk of rollover in a single-vehicle crash.

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

THE LINCOLN WAY™ APP
Your Dashboard of Services & Features

Download the Lincoln Way app™ and you can:

- Remotely start, lock and unlock your vehicle
- Locate your vehicle and check approximate fuel range
- Receive vehicle health alerts

The Lincoln Connect™ modern is active and sending vehicle data (e.g., speed) to Lincoln. See in-vehicle Settings for connectivity options.

Compatible with select smartphones. Lincoln Connect service required. See App Store for more information. Connected services and related features functionality is subject to limitations. All programs available while driving. See dealer for complete program of use features, including their own functionality. Message and data rates may apply. See your local Lincoln website for our privacy policy.

Lincoln Protect™

Enlist on Lincoln Protect™ The only extended service plan fully backed by Lincoln and honored at every Lincoln dealership in the U.S., Canada and Mexico. See your Lincoln dealer or visit www.LincolnOwner.com

WARNING: Operating, servicing and maintaining a passenger vehicle, pickup truck, van, or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

INCLUDED ON THIS VEHICLE EQUIPMENT GROUP 501A (MSRP)	750.00
OPTIONAL EQUIPMENT/OTHER	NO CHARGE
2025 MODEL YEAR	NO CHARGE
RED CARPET MET CC	NO CHARGE
92 STATE EMISSIONS	NO CHARGE
BLUECRUISE EQUIP. 4 YEAR INCL FRONT LICENSE PLATE BRACKET	NO CHARGE

PRICE INFORMATION (MSRP)	\$51,890.00
BASE PRICE	750.00
TOTAL OPTIONS/OTHER	\$2,640.00
TOTAL VEHICLE & OPTIONS/OTHER DESTINATION & DELIVERY	1,056.00

SOLD TO Gordie Boucher Lincoln 3161 South 108th St West Allis WI 53227	42B 549	RAMP ONE CH79	FINAL ASSEMBLY PLANT HANGZHOU	TOTAL MSRP \$54,235.00
SHIP TO (IF OTHER THAN SOLD TO)		RAMP TWO CONVOY	METHOD OF TITLING CONVOY	
SHIP THROUGH		ITEM # 42-N902 OIT 2		


Whether you decide to lease or finance your vehicle, you'll find the choices that are right for you. See your Lincoln Dealer for details or visit www.lincolnmfi.com.

RM033 N RDS2X 535 001268 12 03 24

Figure A-71: Monroney Label

Front Seats

Adjusting the Head Restraint Wing (if Equipped)



E363765

- Adjust the seat backrest to an upright driving or riding position.
- Pivot the head restraint forward toward your head to the preferred position.

After the head restraint reaches the forward-most tilt position, pivot it forward again to release it to the rearward, untilted position.


Note: Do not attempt to force the head restraint backward after it is tilted. Instead, continue tilting it forward until the head restraint releases to the upright position.

REMOVING THE HEAD RESTRAINT

- Pull up the head restraint until it reaches its highest position.
- Press and hold the adjust and unlock button.
- Pull up the head restraint.

INSTALLING THE HEAD RESTRAINT

Align the steel stems into the guide sleeves and push the head restraint down until it locks.



E370253

Pull forward the front portion of the Head restraint.

Recovering the Head Restraint Wing

Push the wing backward.

Figure A-72: Head Restraint Use and Adjustment Information from Vehicle Owner's Manual



Figure A-73: Post-Test View of Shattered Vehicle Inner Door Panel

APPENDIX B
VEHICLE AND DUMMY RESPONSE DATA TRACES

Table of Data Plots Driver Dummy Instrumentation Plots

Fig.	Description	Page
Plot 1	Driver Head Acceleration (X) Primary vs. Time	B-4
Plot 2	Driver Head Acceleration (Y) Primary vs. Time	B-4
Plot 3	Driver Head Acceleration (Z) Primary vs. Time	B-4
Plot 4	Driver Head Resultant Primary vs. Time	B-4
Plot 5	Driver Lower Spine T12 Acceleration (X) vs. Time	B-5
Plot 6	Driver Lower Spine T12 Acceleration (Y) vs. Time	B-5
Plot 7	Driver Lower Spine T12 Acceleration (Z) vs. Time	B-5
Plot 8	Driver Lower Spine T12 Resultant Acceleration vs. Time	B-5
Plot 9	Driver Iliac Wing Force on Impact Side (Y) vs. Time	B-6
Plot 10	Driver Acetabulum Force on Impact Side (Y) vs. Time	B-6
Plot 11	Driver Total Pelvis Force on Impact Side (Y) vs. Time	B-6

The following additional dummy and vehicle response data can be found in the R&D section of the NHTSA website at www.NHTSA.gov

Additional Driver Dummy Instrumentation Data

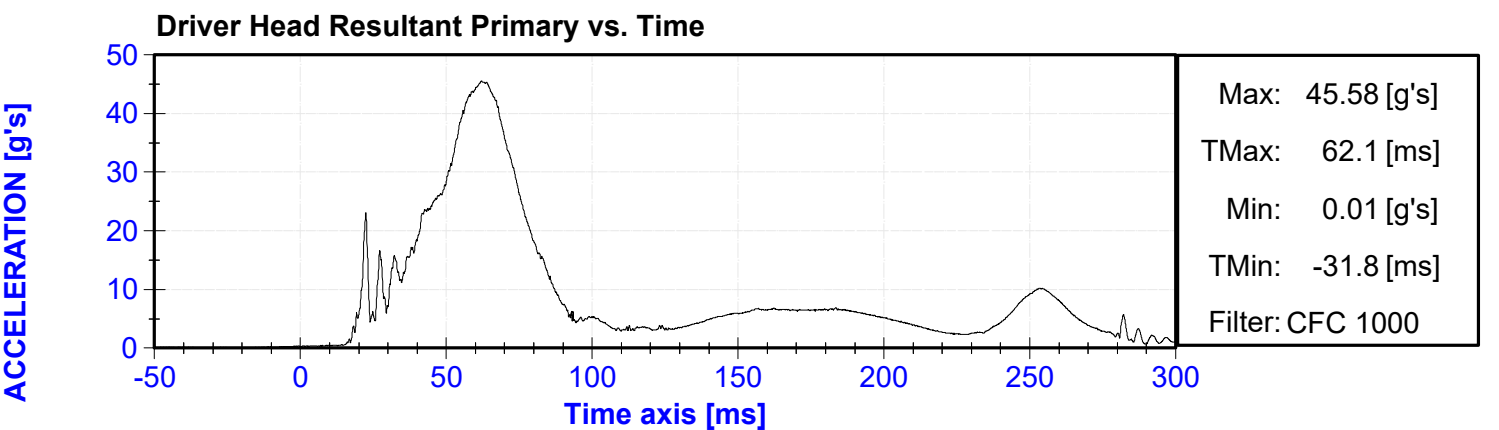
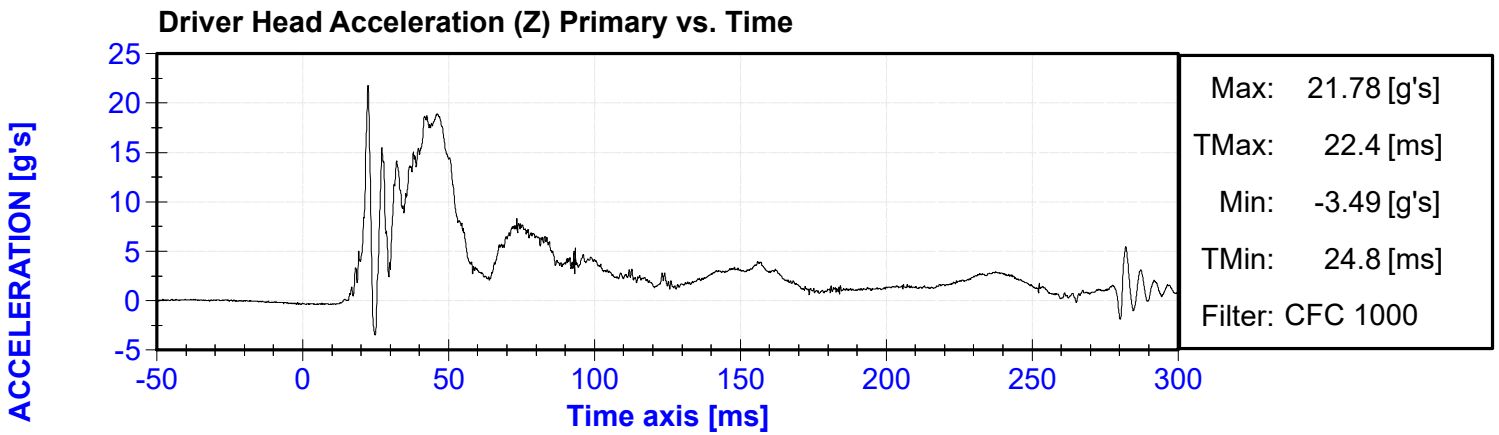
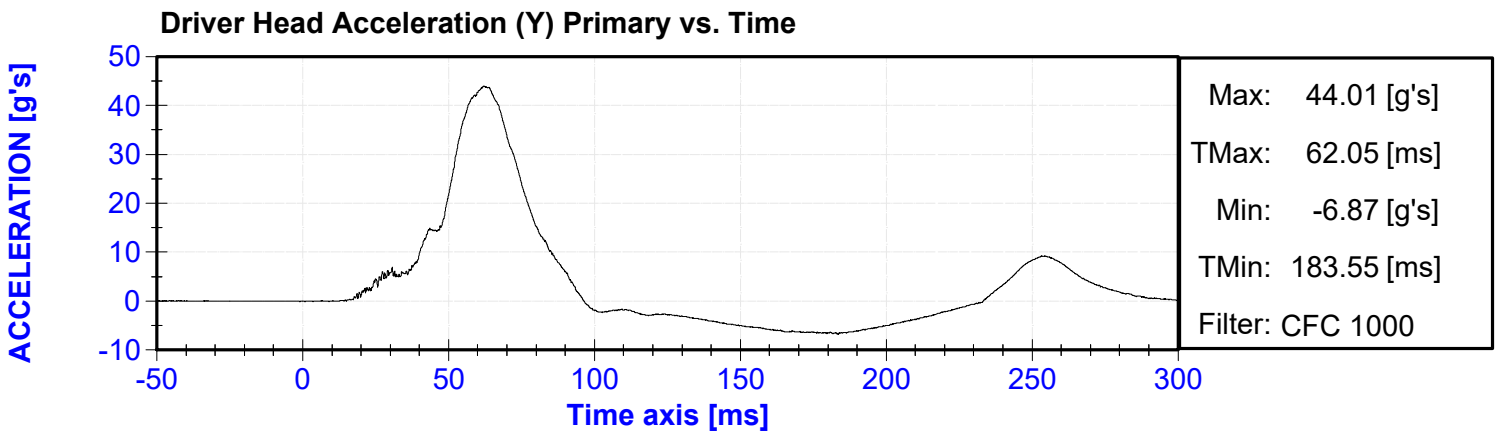
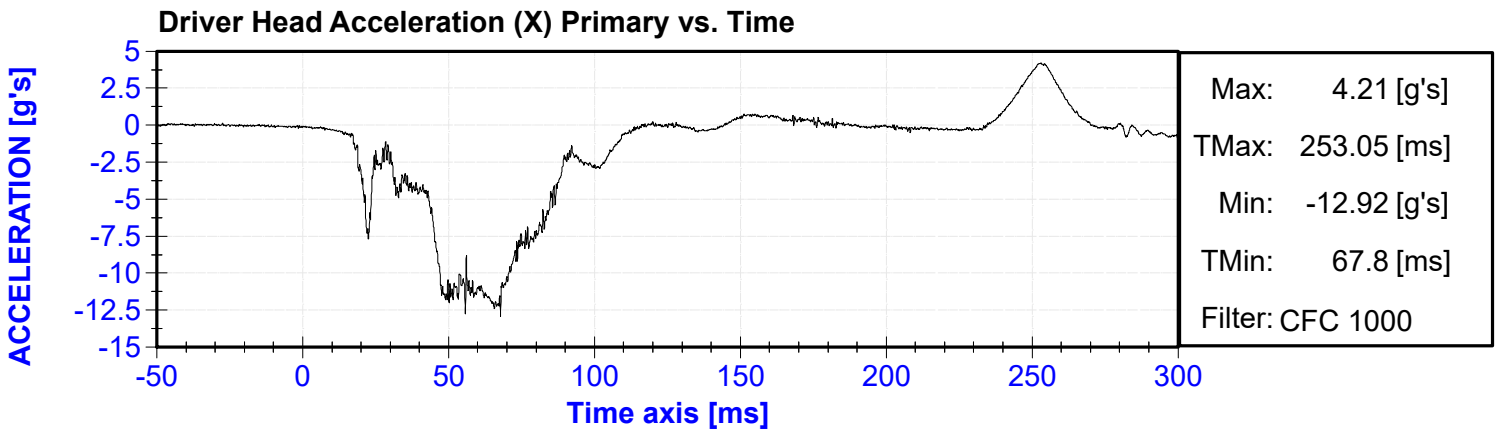
Driver Head Acceleration Redundant (X)
Driver Head Acceleration Redundant (Y)
Driver Head Acceleration Redundant (Z)
Driver Upper Thorax Rib Deflection (Y)
Driver Middle Thorax Rib Deflection (Y)
Driver Lower Thorax Rib Deflection (Y)
Driver Upper Abdomen Rib Deflection (Y)
Driver Lower Abdomen Rib Deflection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

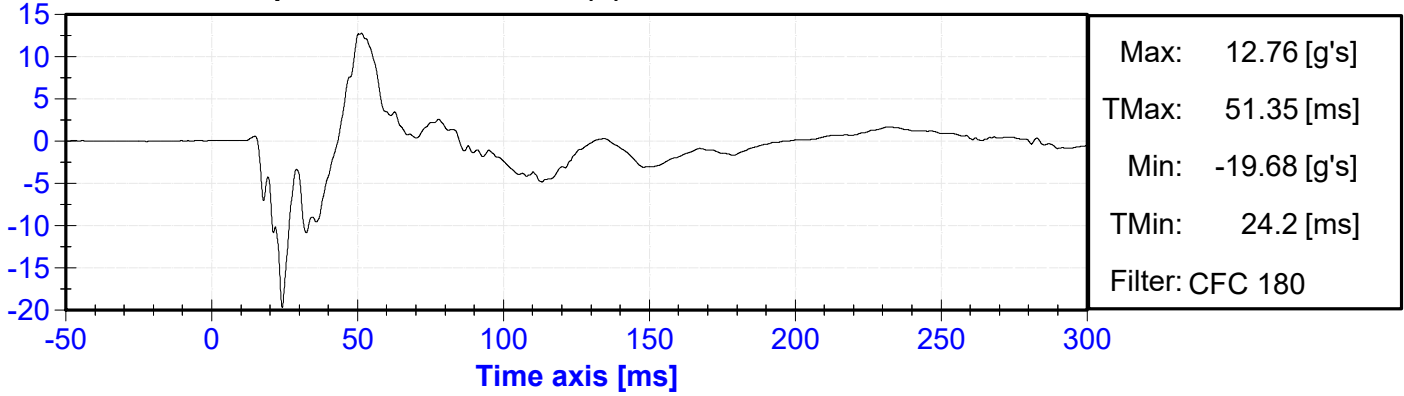
Pole Instrumentation Data

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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)



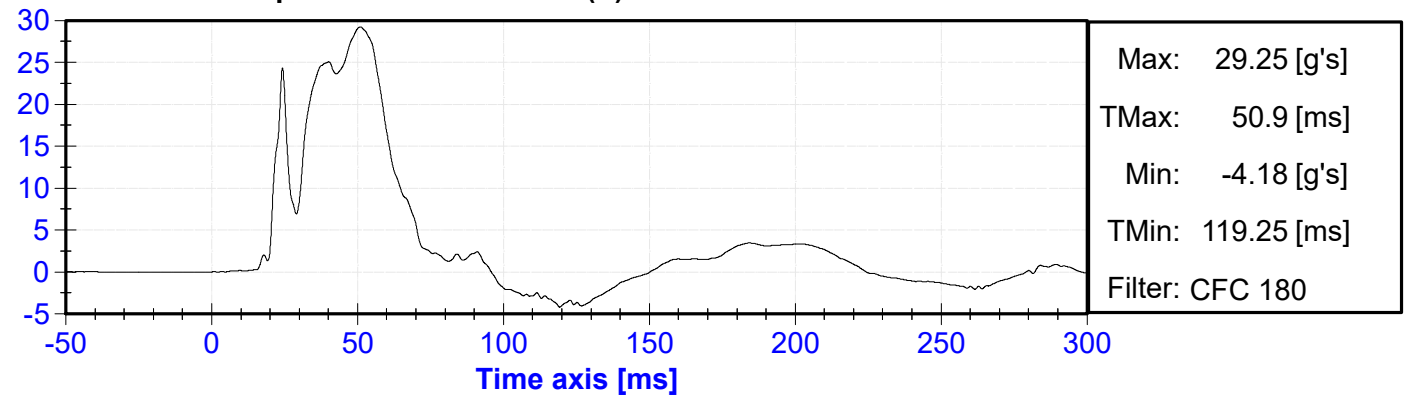
ACCELERATION [g's]

Driver Lower Spine T12 Acceleration (X) vs. Time



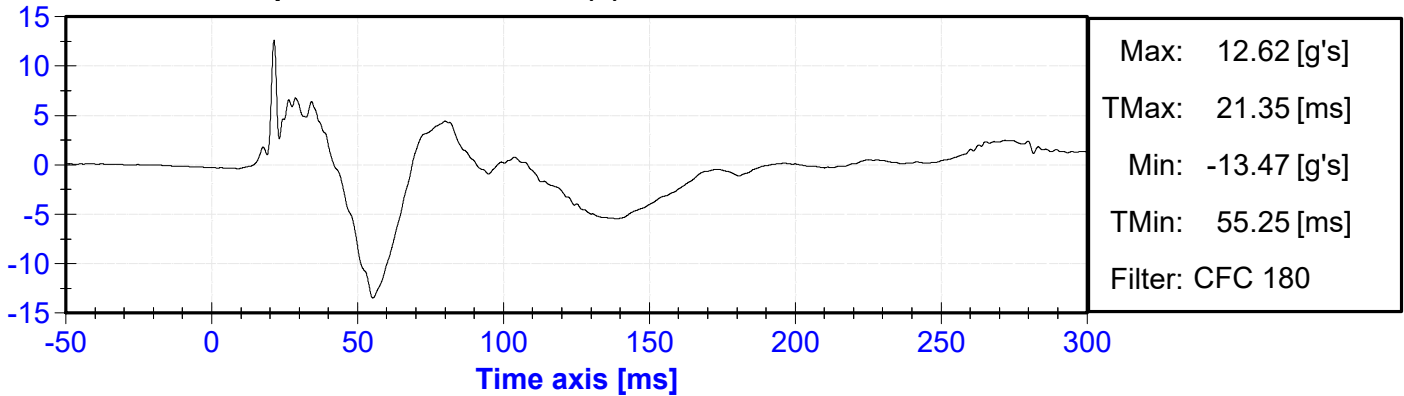
ACCELERATION [g's]

Driver Lower Spine T12 Acceleration (Y) vs. Time



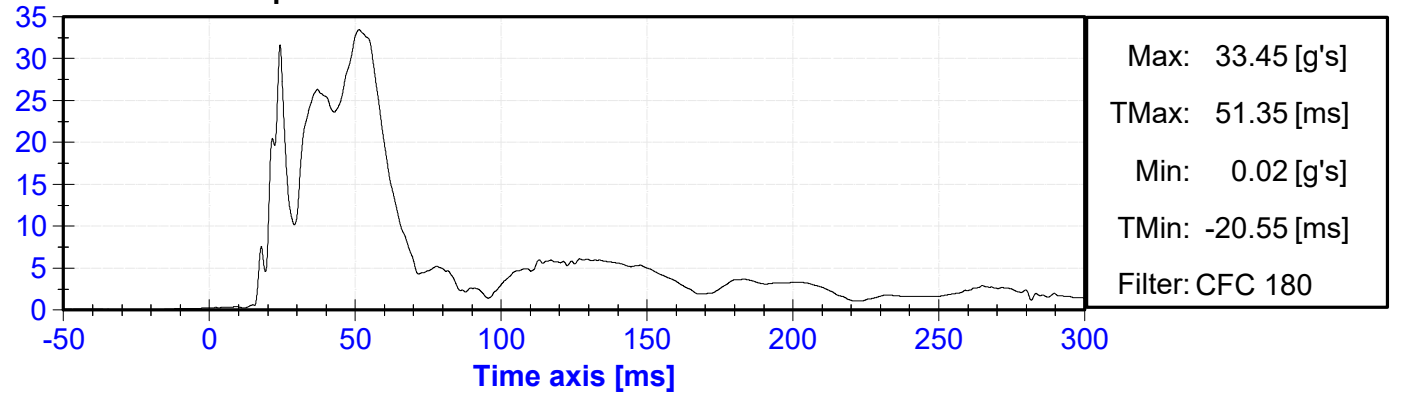
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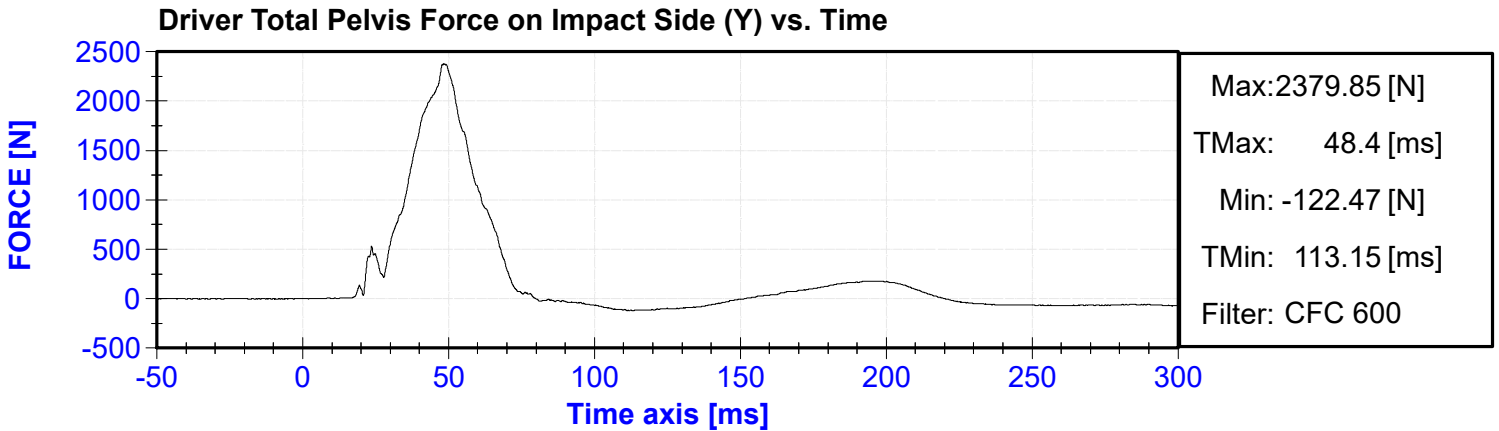
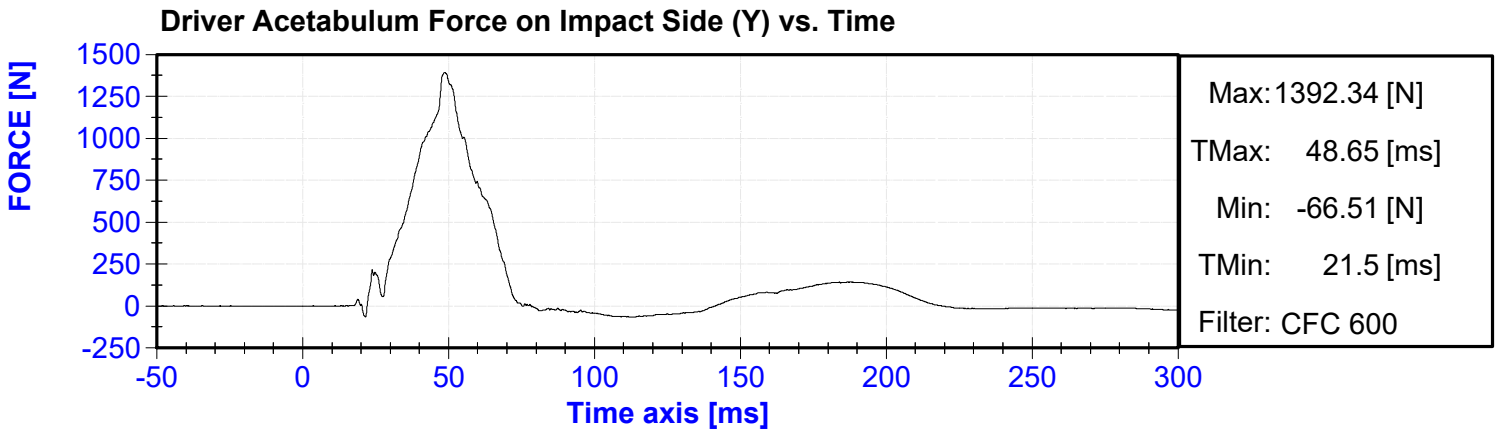
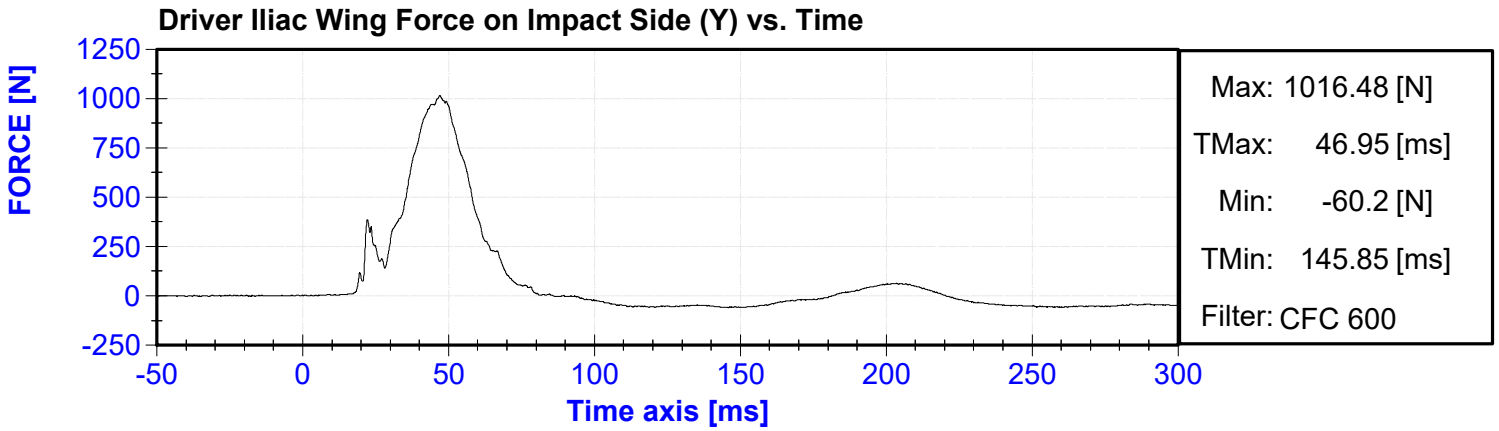
Driver Lower Spine T12 Acceleration (Z) vs. Time



ACCELERATION [g's]

Driver Lower Spine T12 Resultant Acceleration vs. Time





APPENDIX C

DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

CALIBRATION TEST RESULTS

PRE-TEST

SID-IIS 5TH PERCENTILE FEMALE - DRIVER ATD

SERIAL NO:300

(CONFIGURED FOR LEFT SIDE IMPACT)

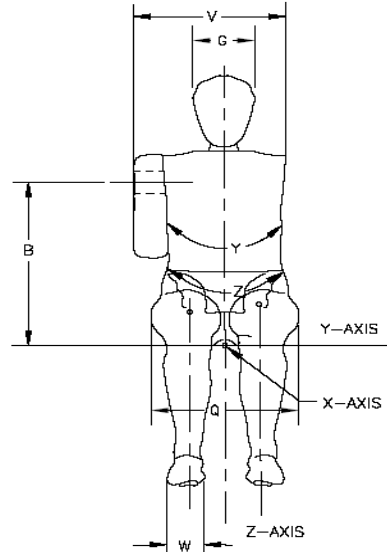
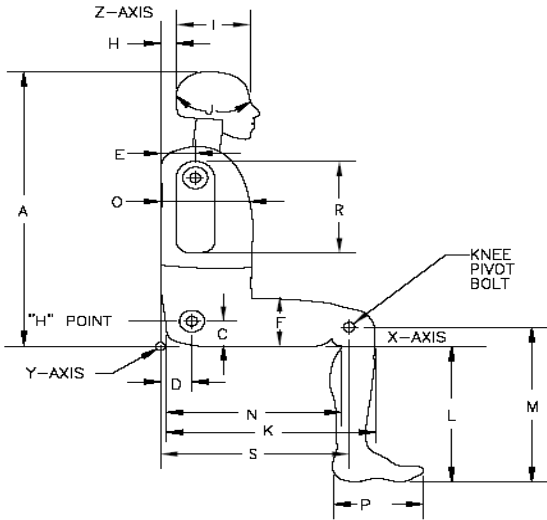


External Measurements - SID-IIs

Technician: J. Rios

Date: 3/24/2025

Dummy Serial Number: 300



Symbol	Description	Specification (mm)		Result (mm)	Pass/Fail
A	Sitting Height	772	788	781	Pass
B	Shoulder Pivot Height	437	453	442	Pass
C	H-point Height	79	89	81	Pass
D	H-point from seatback	141	151	147	Pass
E	Shoulder Pivot from Backline	97	107	103	Pass
F	Thigh Clearance	119	135	131	Pass
G	Head Breadth	140	148	145	Pass
H	Head Back from Backline	40	46	43	Pass
I	Head Depth	178	188	184	Pass
J	Head Circumference	541	551	548	Pass
K	Buttock to Knee Length	514	540	528	Pass
L	Popliteal Height	343	369	359	Pass
M	Knee Pivot to floor height	392	409	402	Pass
N	Buttock Popliteal Length	416	442	434	Pass
O	Chest Depth w/o jacket	195	211	202	Pass
P	Foot Length	216	232	223	Pass
Q	Hip Breadth (w/pelvic plugs)	313	323	318	Pass
R	Arm Length	249	259	252	Pass
S	Knee Joint to seatback	477	493	481	Pass
V	Shoulder Width	341	357	350	Pass
W	Foot Width	78	94	82	Pass
Y	Chest Circumference w/jacket	851	881	872	Pass
Z	Waist Circumference	761	791	773	Pass

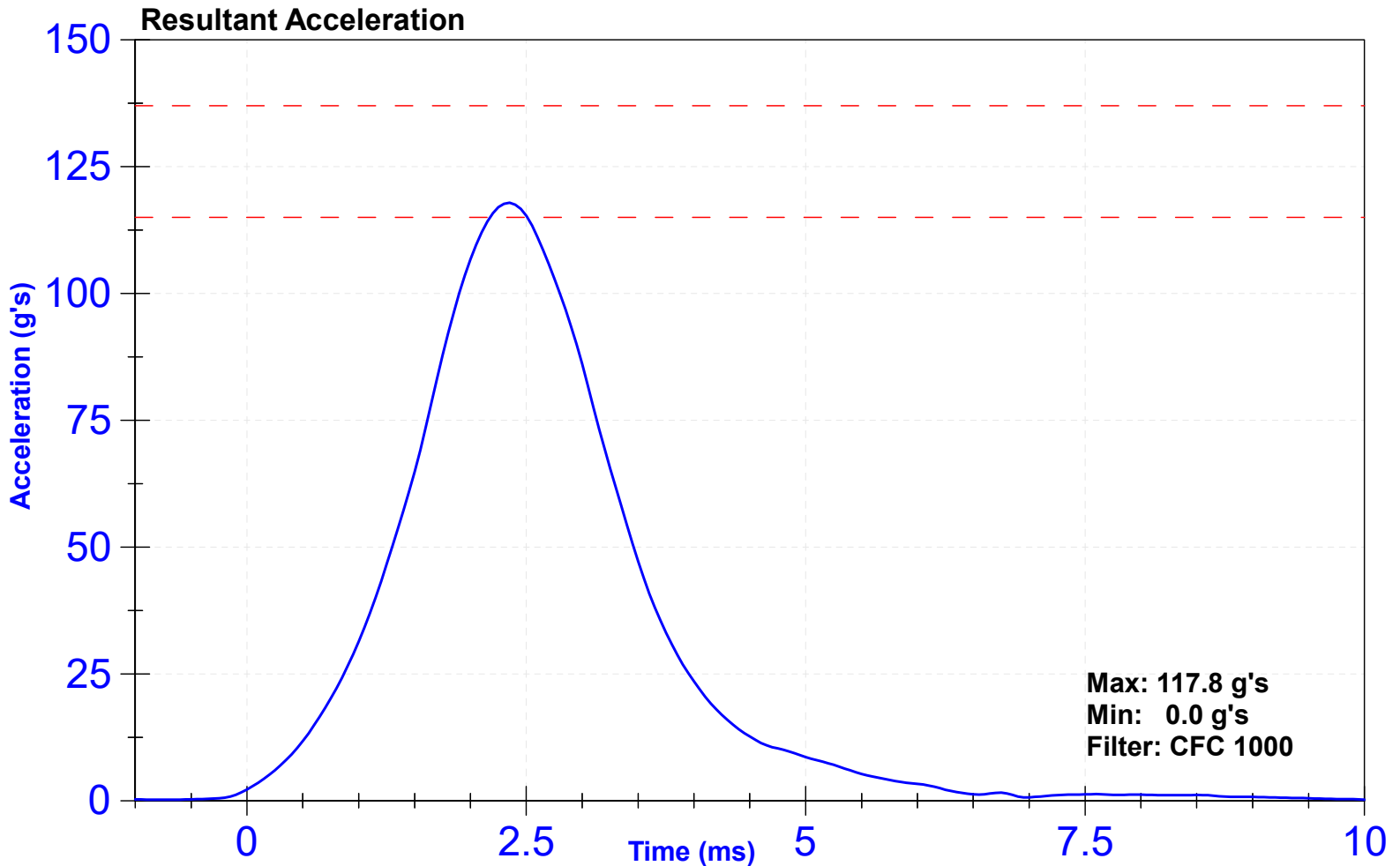
ATD Manufacturer	FTSS	Test Technician	J. Miller
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

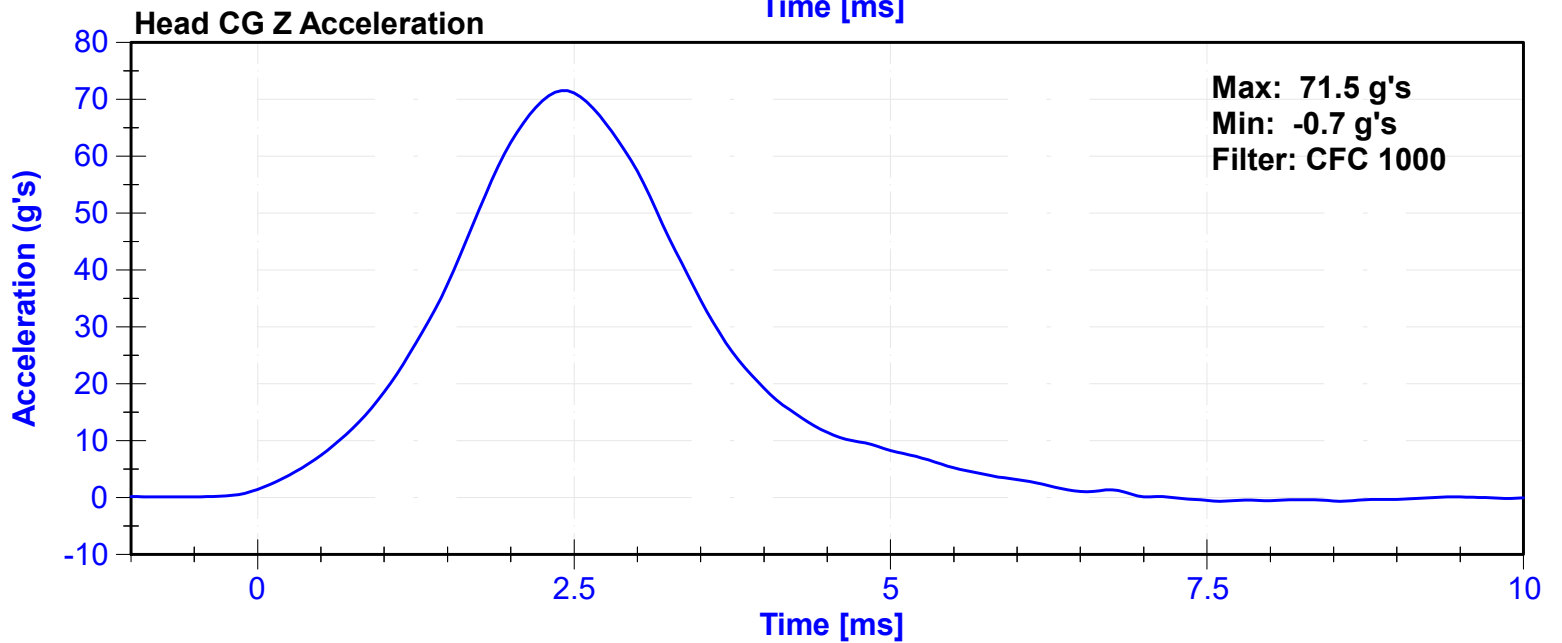
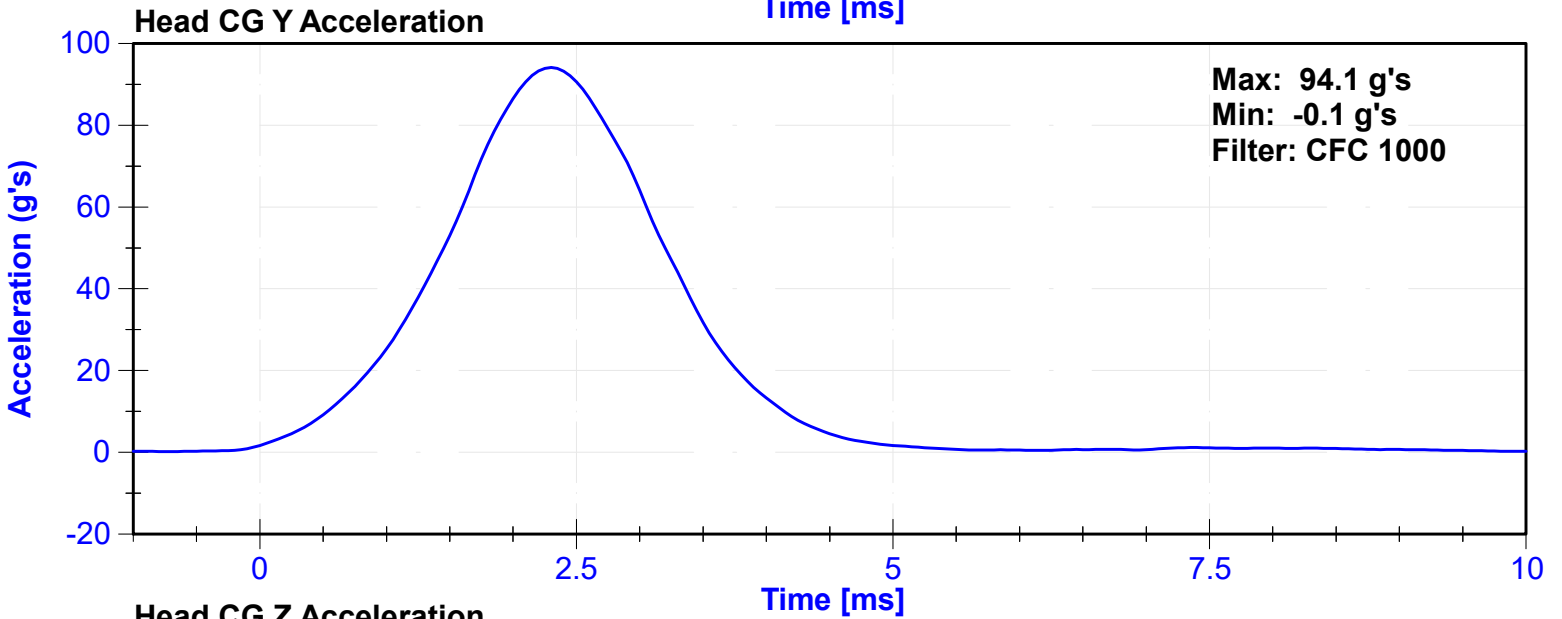
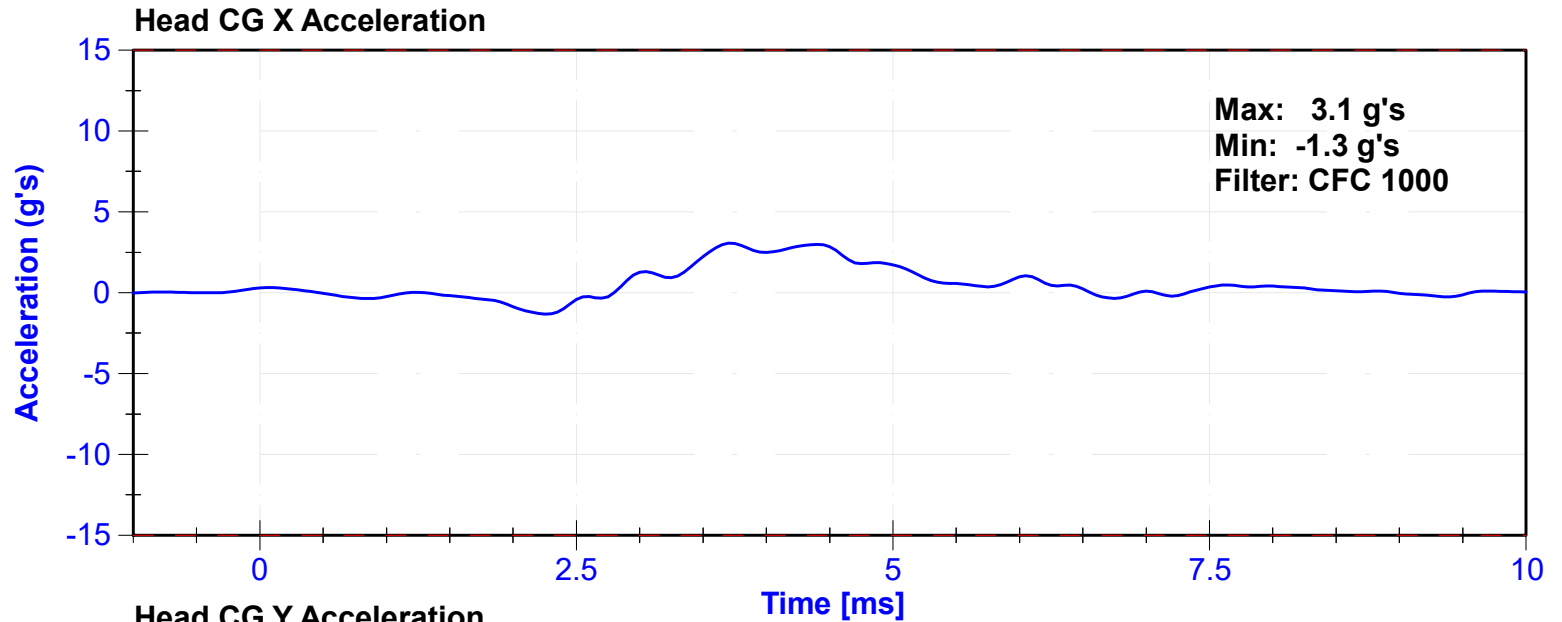
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.8	Pass
Humidity	10	70	%	22	Pass
Resultant Acceleration	115	137	g's	117.8	Pass
Oscillation	0	15	%	1.3	Pass
Fore-Aft Acceleration	-15	15	g's	3.1	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibratio Date	Calibratio Due Date
X Accelerometer	Endevco	P59018	10/17/2024	4/15/2025
Y Accelerometer	Endevco	P79189	10/17/2024	4/15/2025
Z Accelerometer	Endevco	P79587	10/17/2024	4/15/2025





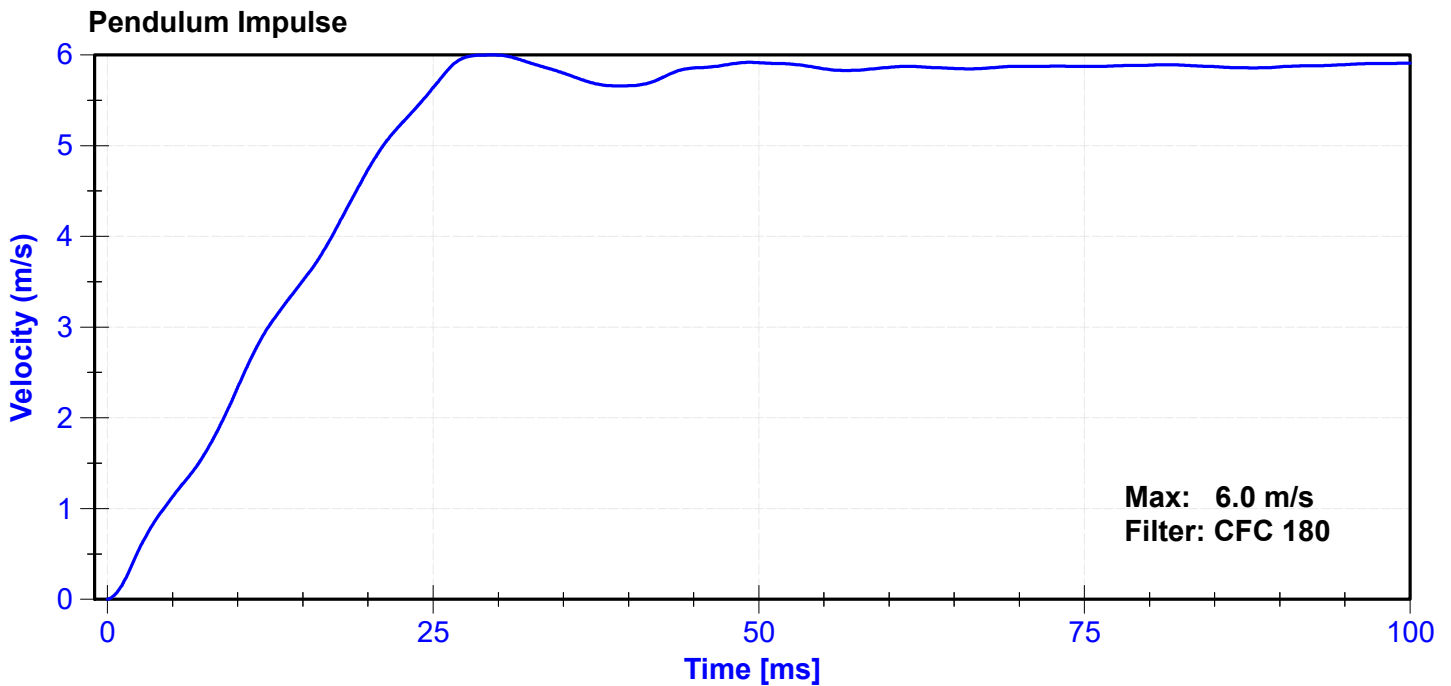
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ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

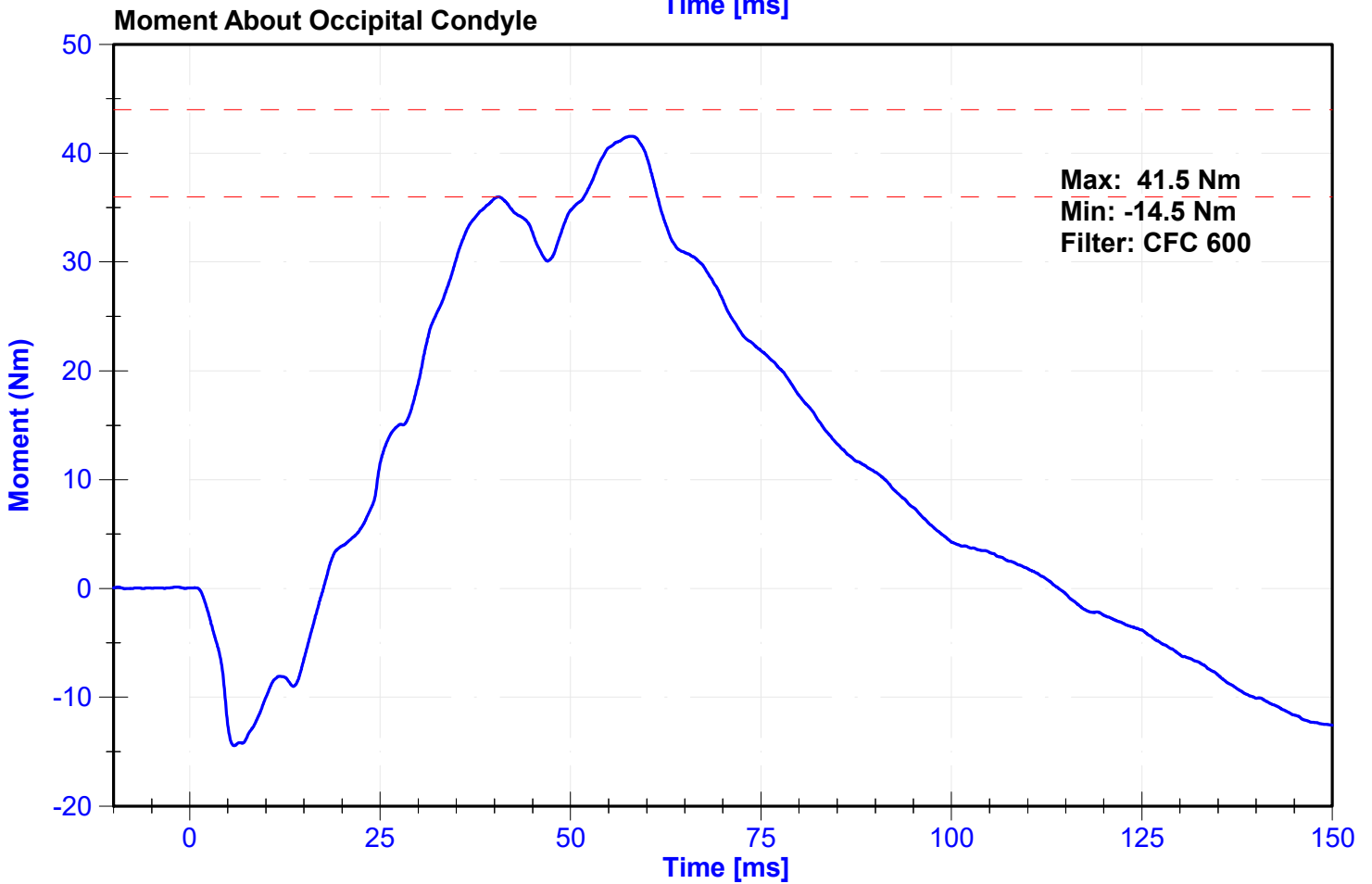
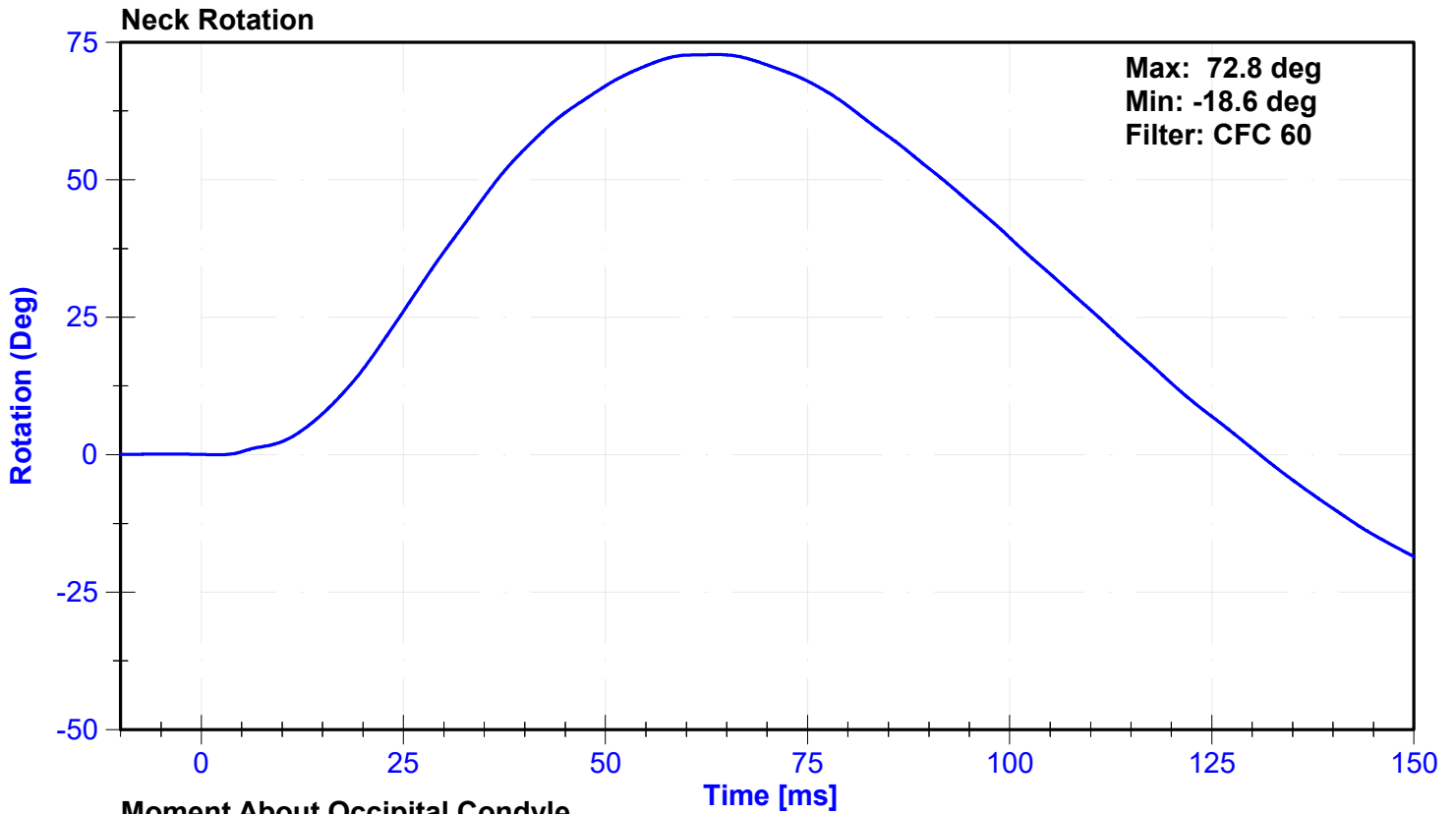
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.8	Pass
Humidity	10	70	%	24	Pass
Velocity	5.51	5.63	m/s	5.580	Pass
Pendulum Impulse at 10ms	2.2	2.8	m/s	2.34	Pass
Pendulum Impulse at 15ms	3.3	4.1	m/s	3.51	Pass
Pendulum Impulse at 20ms	4.4	5.4	m/s	4.74	Pass
Pendulum Impulse at 25ms	5.4	6.1	m/s	5.64	Pass
Pendulum Impulse from 25 to 100ms	5.5	6.2	m/s	6.00	Pass
Neck Rotation	71	81	deg	72.8	Pass
Time at Maximum Rotation	50	70	ms	63.8	Pass
Moment about the OC	36	44	Nm	41.5	Pass
Moment Decay to 0 Nm	102	126	ms	114.1	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	7231C-750	10/17/2024	4/15/2025
Pendulum Potentiometer	Servo	4961	9/23/2024	9/23/2025
Condyle Potentiometer	Servo	DS185	9/23/2024	9/23/2025
Upper Neck Load Cell	Denton	1716A_2187-FY	2/25/2025	2/25/2026





ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

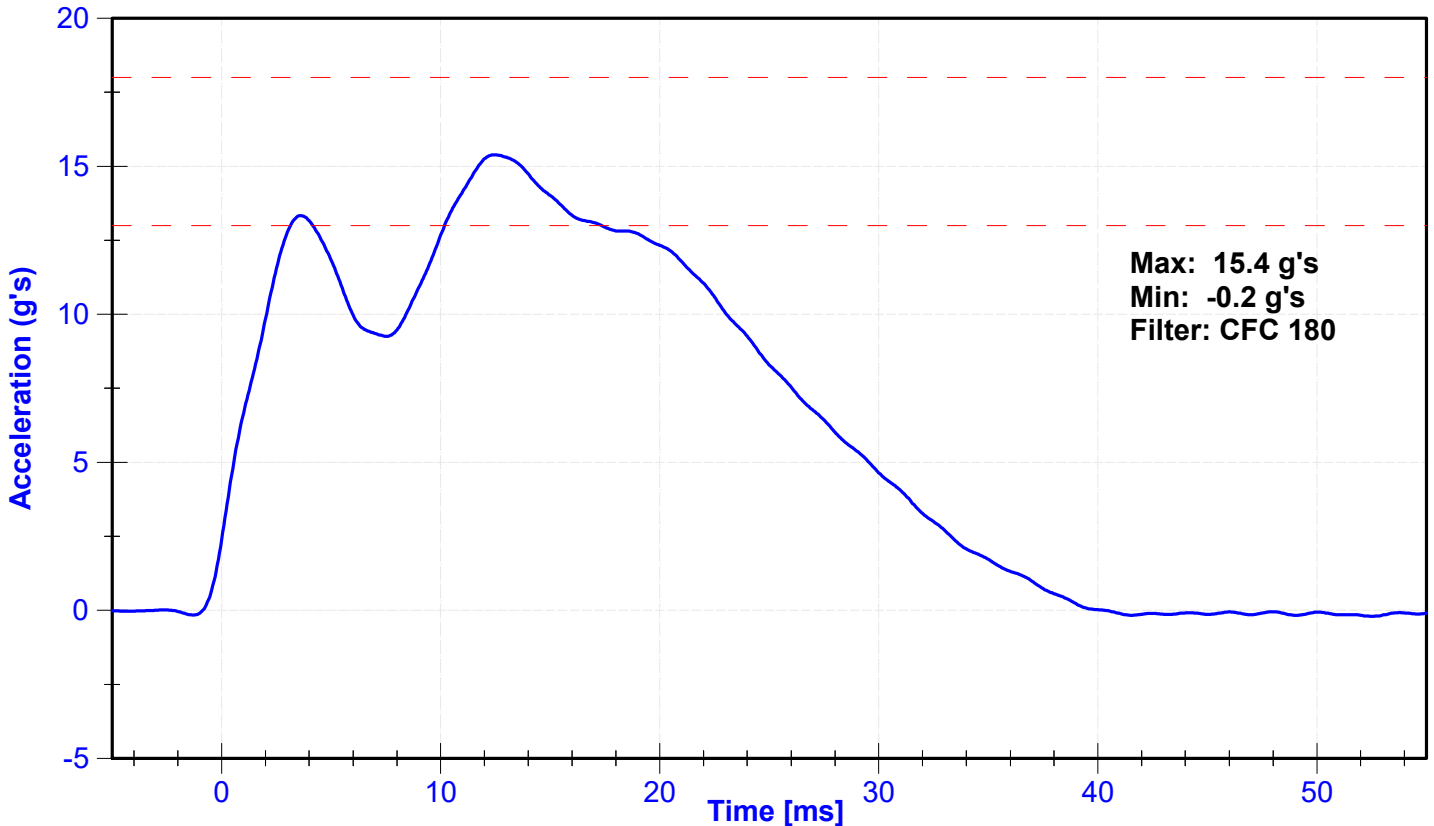
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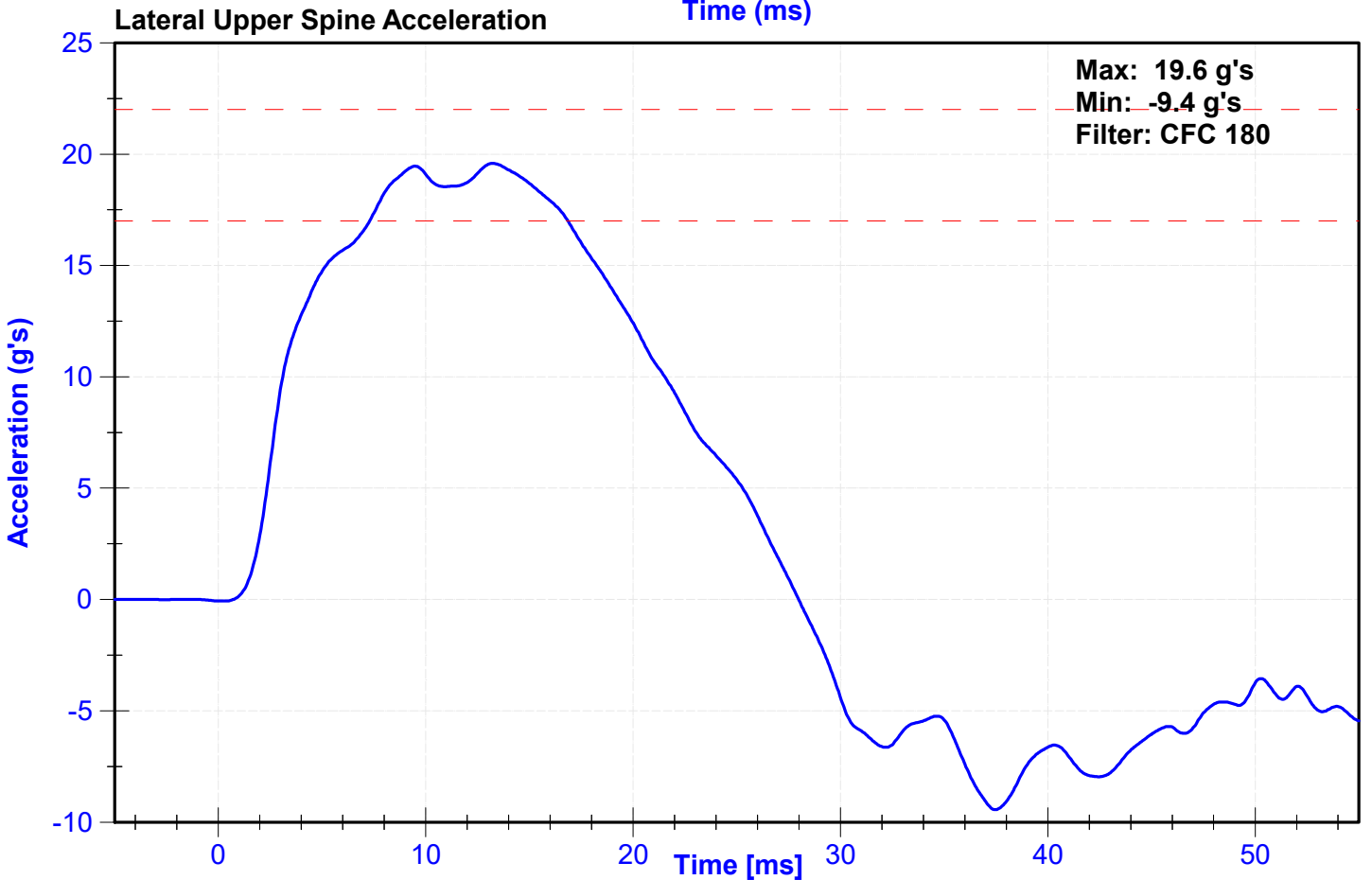
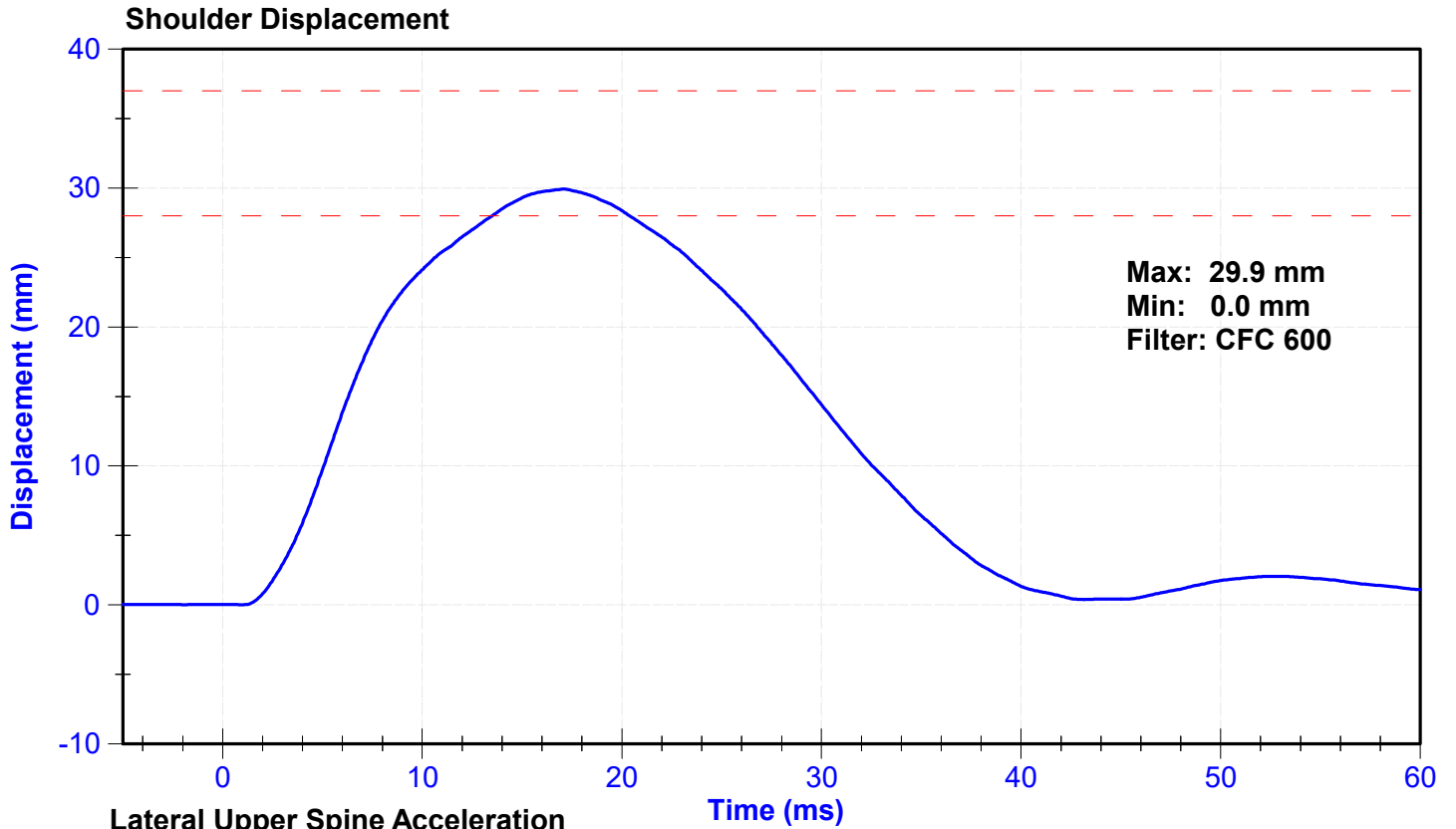
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.7	Pass
Humidity	10	70	%	28	Pass
Velocity	4.2	4.4	m/s	4.27	Pass
Probe Acceleration	13	18	g's	15.4	Pass
Shoulder Deflection	28	37	mm	29.9	Pass
Lateral Upper Spine Acceleration	17	22	g's	19.6	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Shoulder Potentiometer	Servo	053GFE	10/16/2024	4/16/2025
Upper Spine Y Accelerometer	Endevco	P52018	11/25/2024	5/24/2025

Probe Acceleration





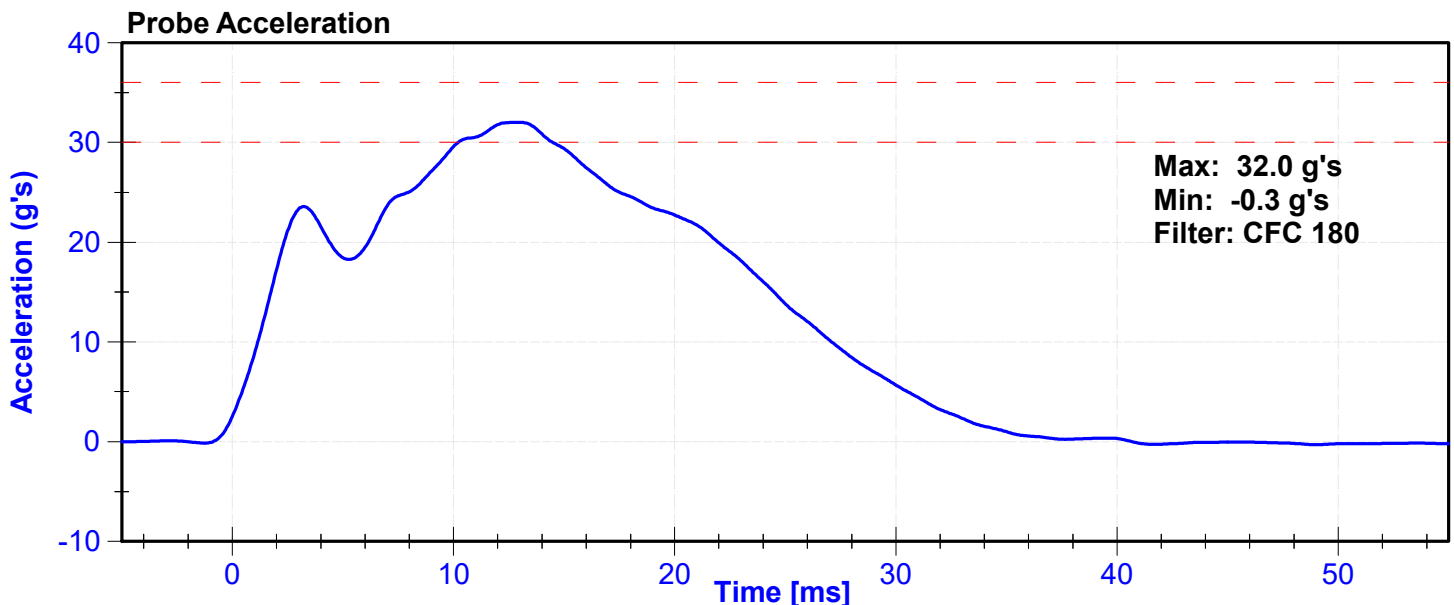
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ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

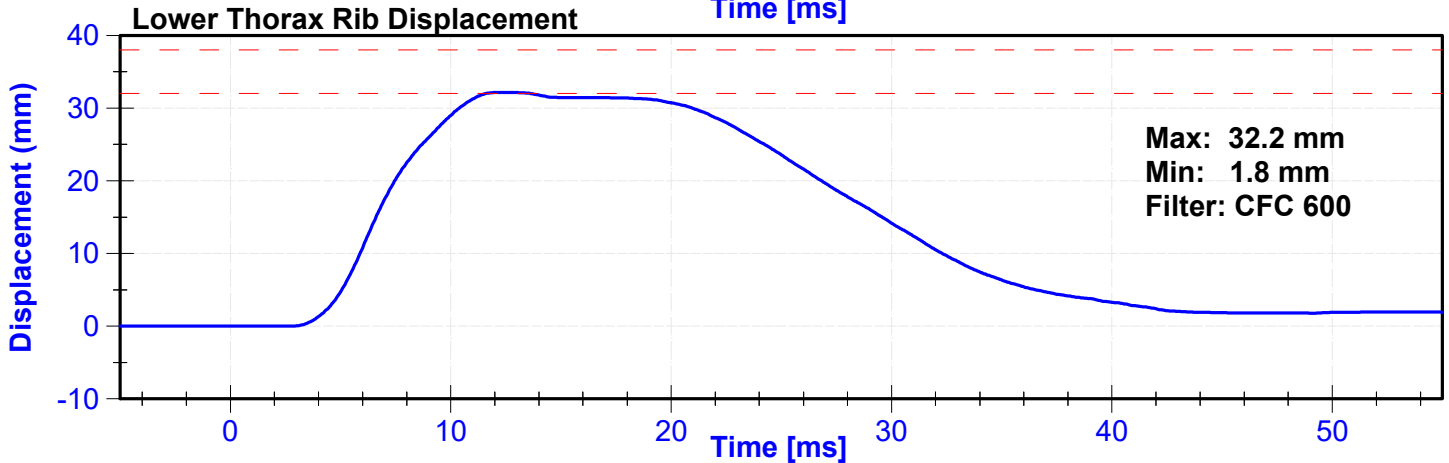
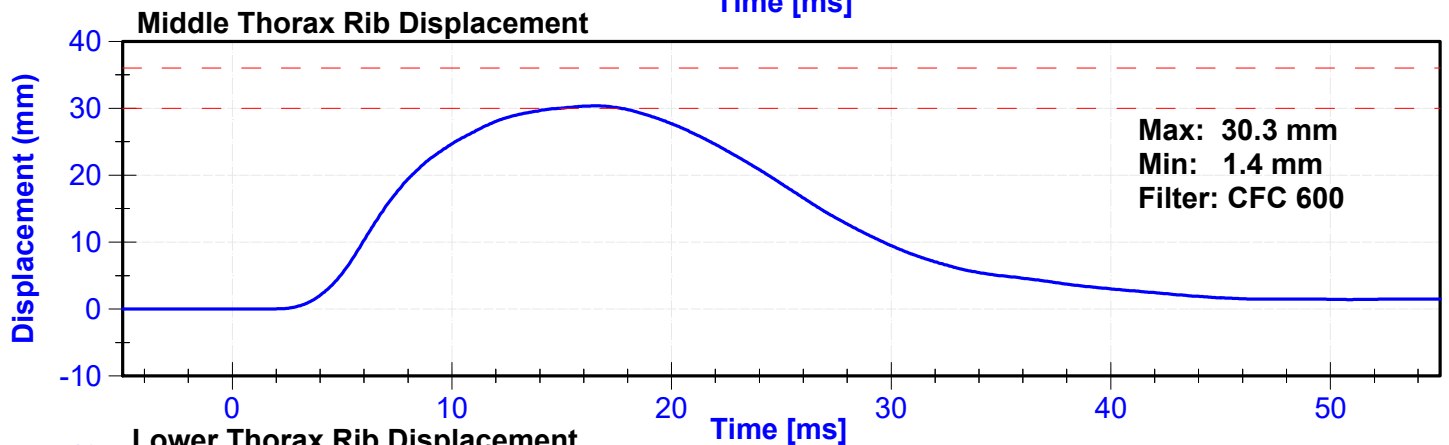
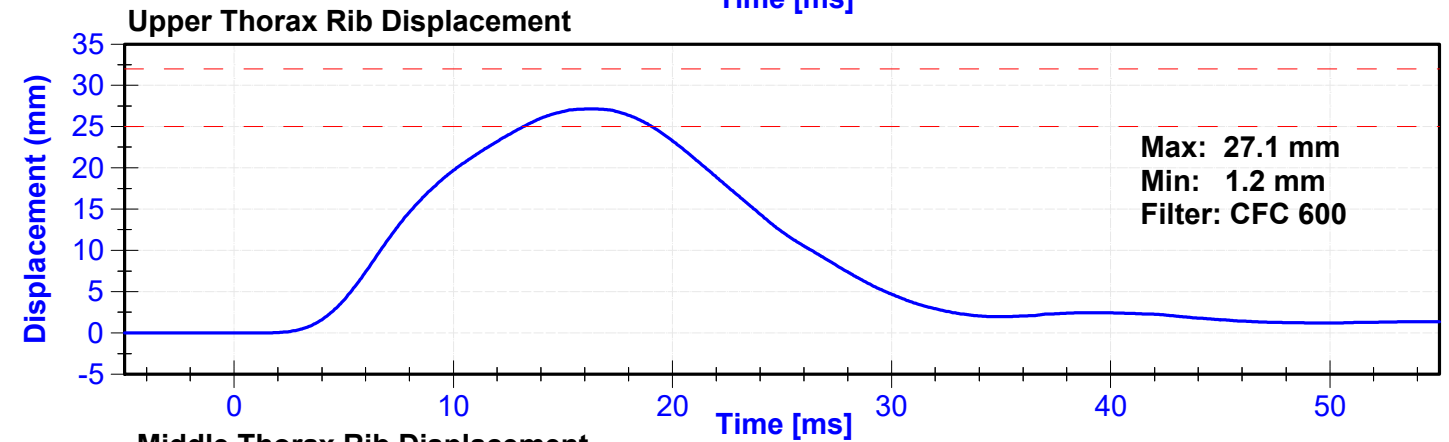
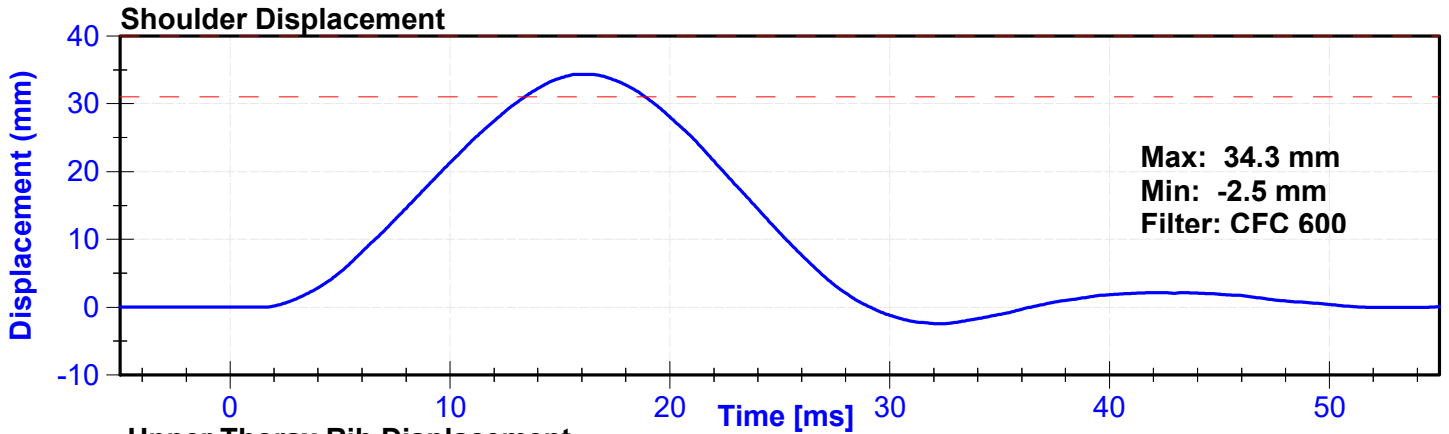
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.7	Pass
Humidity	10	70	%	28	Pass
Velocity	6.6	6.8	m/s	6.67	Pass
Probe Acceleration after 5 ms	30	36	g's	32.0	Pass
Lateral Upper Spine Acceleration	34	43	g's	36.3	Pass
Lateral Lower Spine Acceleration	29	37	g's	33.2	Pass
Shoulder Deflection	31	40	mm	34.3	Pass
Upper Thorax Rib Deflection	25	32	mm	27.1	Pass
Mid Thorax Rib Deflection	30	36	mm	30.3	Pass
Lower Thorax Rib Deflection	32	38	mm	32.2	Pass

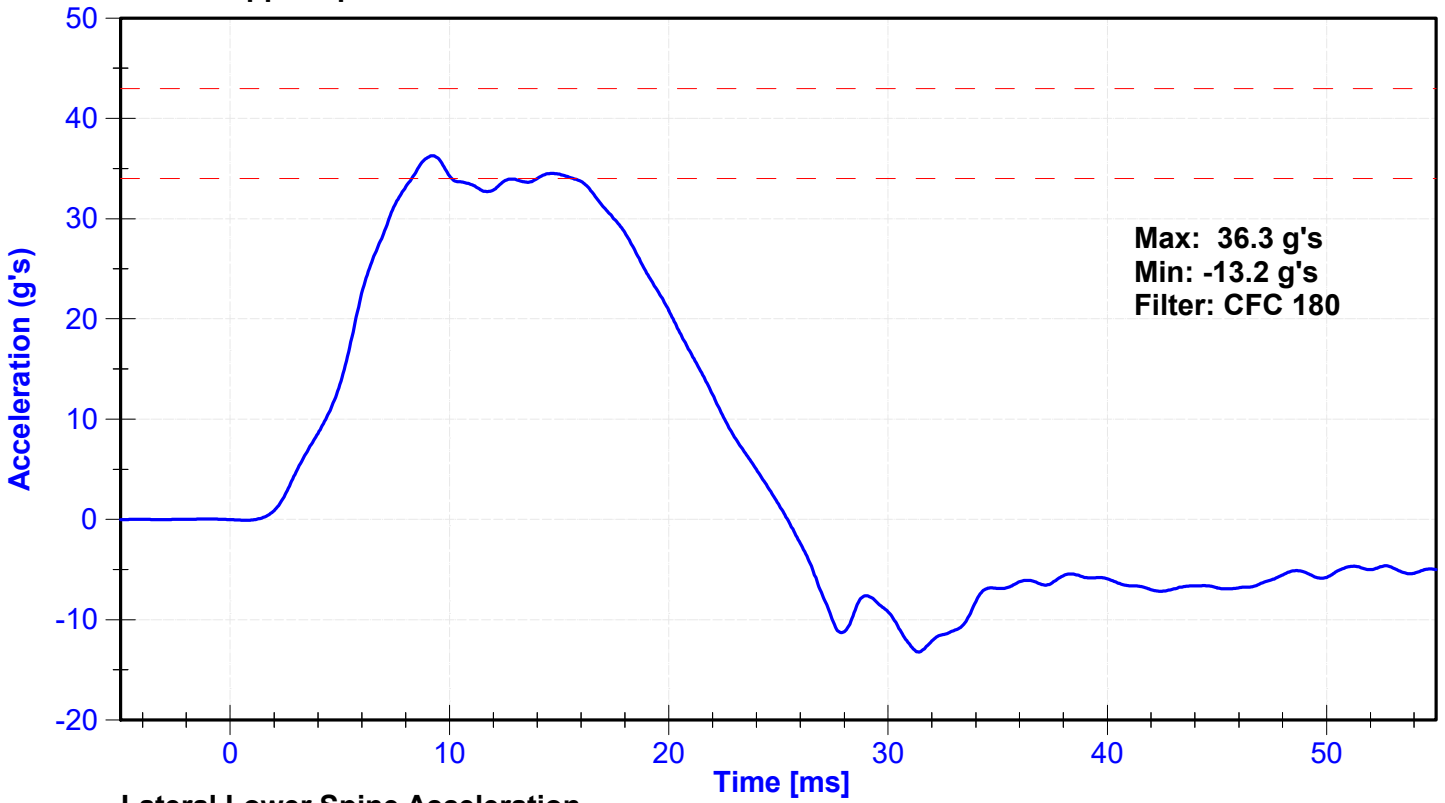
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Upper Spine T1 Y Accelerometer	Endevco	P52018	11/25/2024	5/24/2025
Upper Spine T12 Y Accelerometer	Endevco	P52071	10/17/2024	4/15/2025
Shoulder Potentiometer	Servo	053GFE	10/16/2024	4/16/2025
Upper Thorax Rib Potentiometer	Servo	2316GFE	10/16/2024	4/16/2025
Middle Thorax Rib Potentiometer	Servo	085GFE	10/16/2024	4/16/2025
Lower Thorax Rib Potentiometer	Servo	1156GFE	10/16/2024	4/16/2025

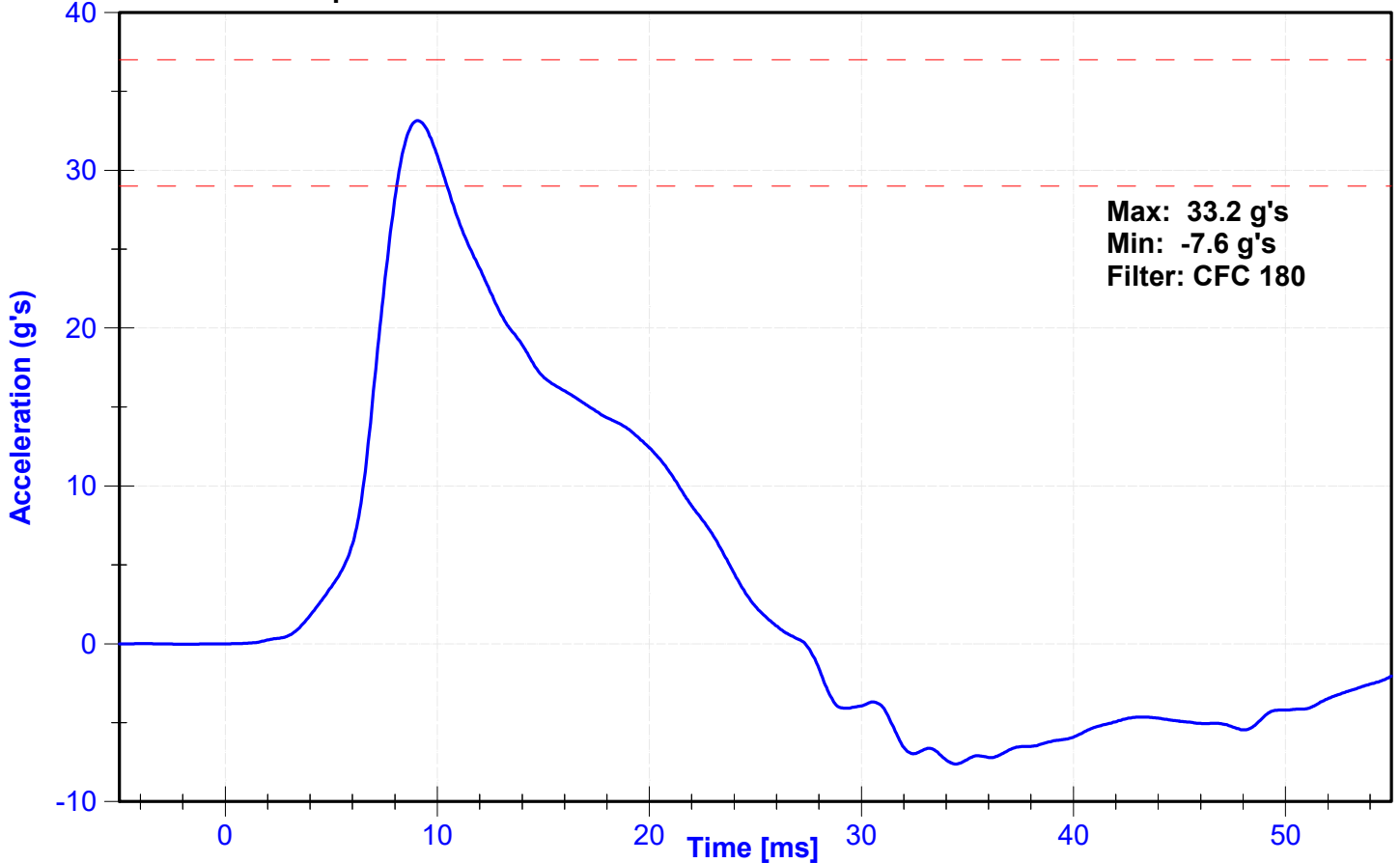




Lateral Upper Spine Acceleration



Lateral Lower Spine Acceleration



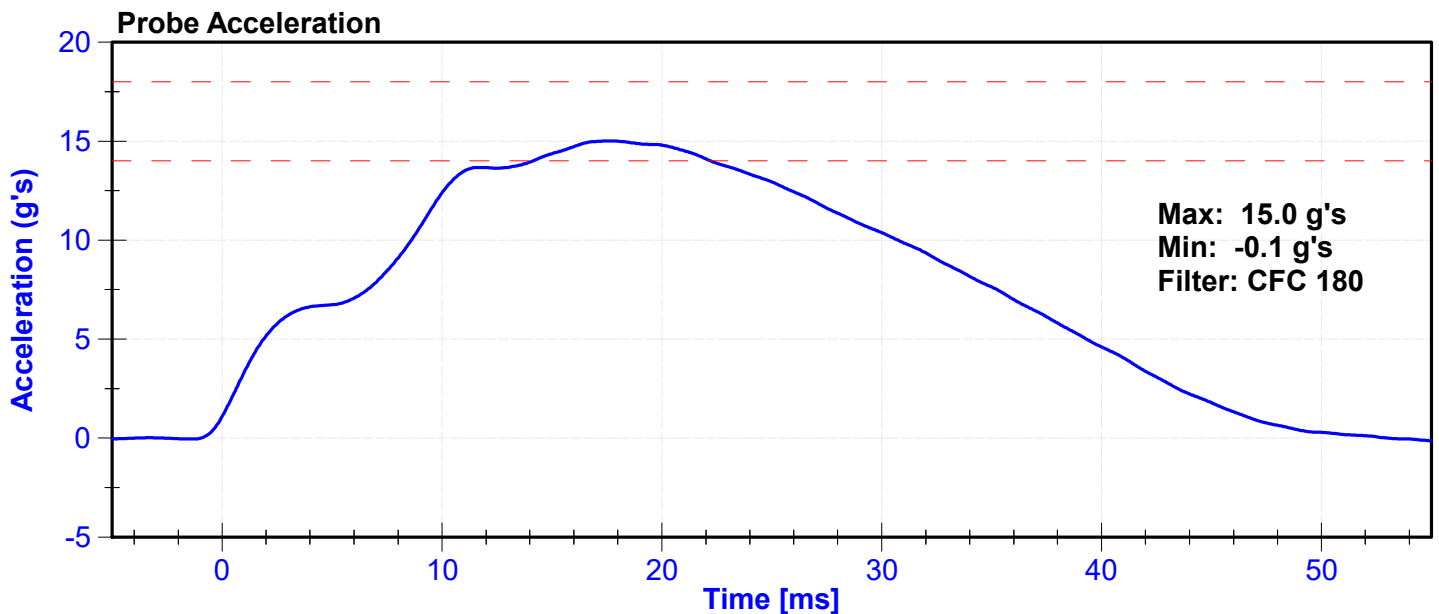
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

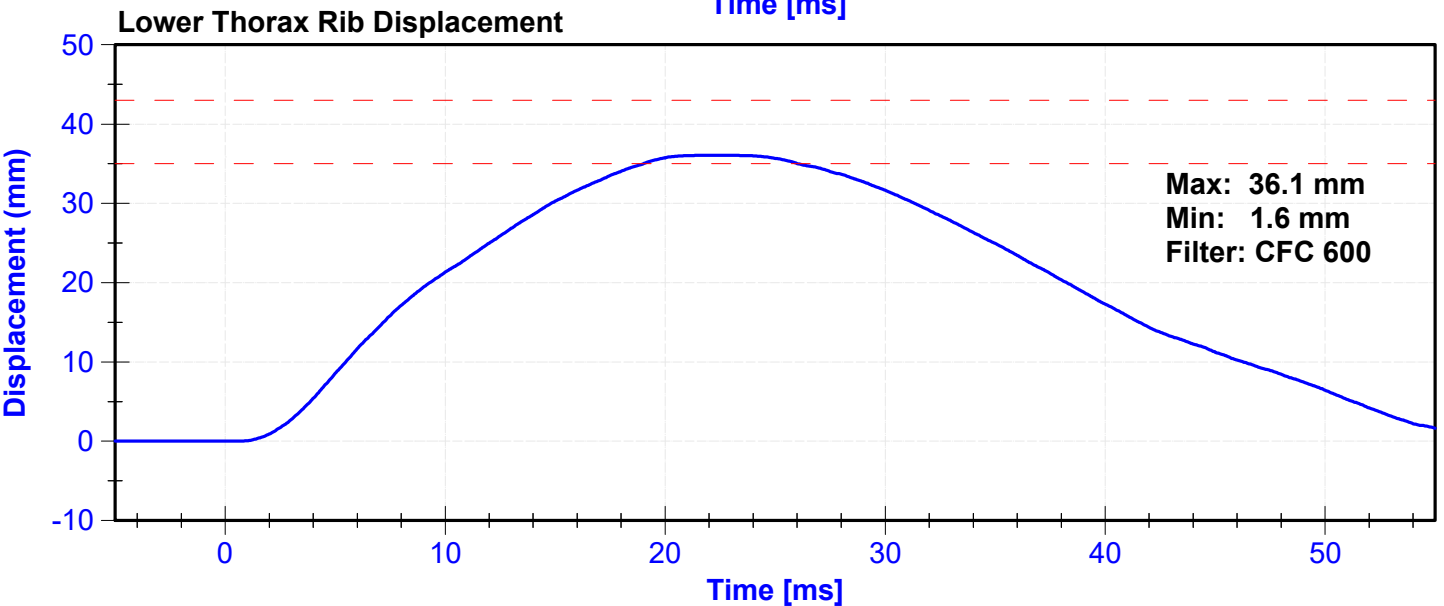
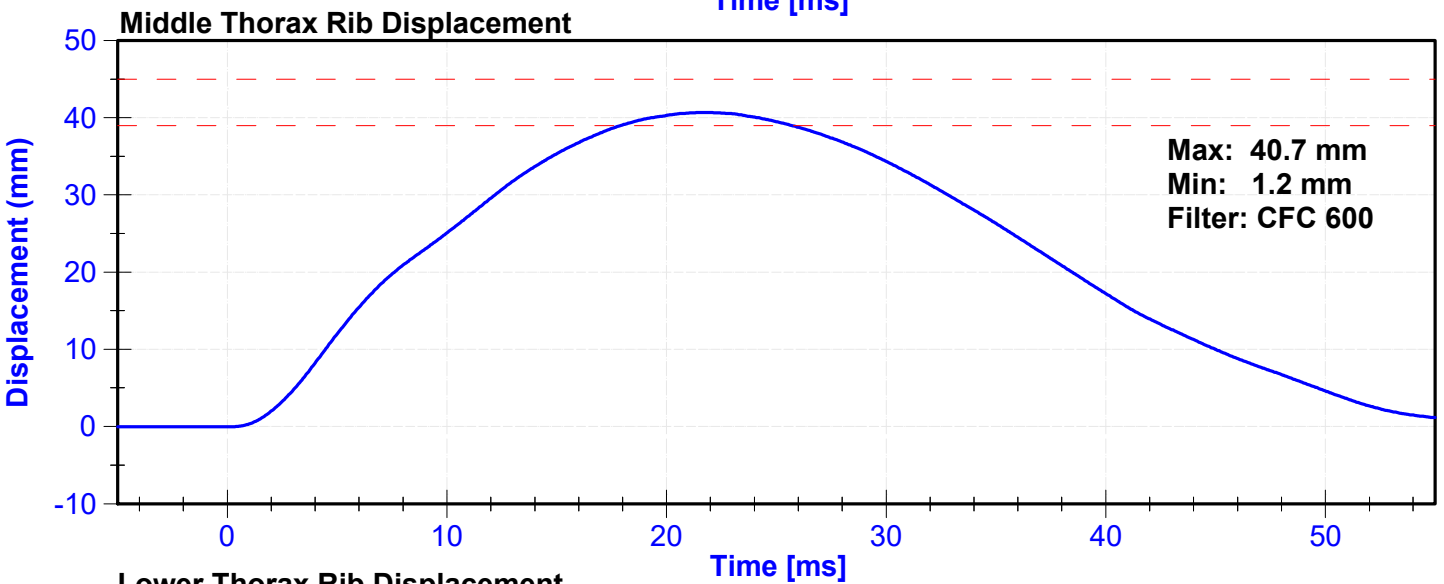
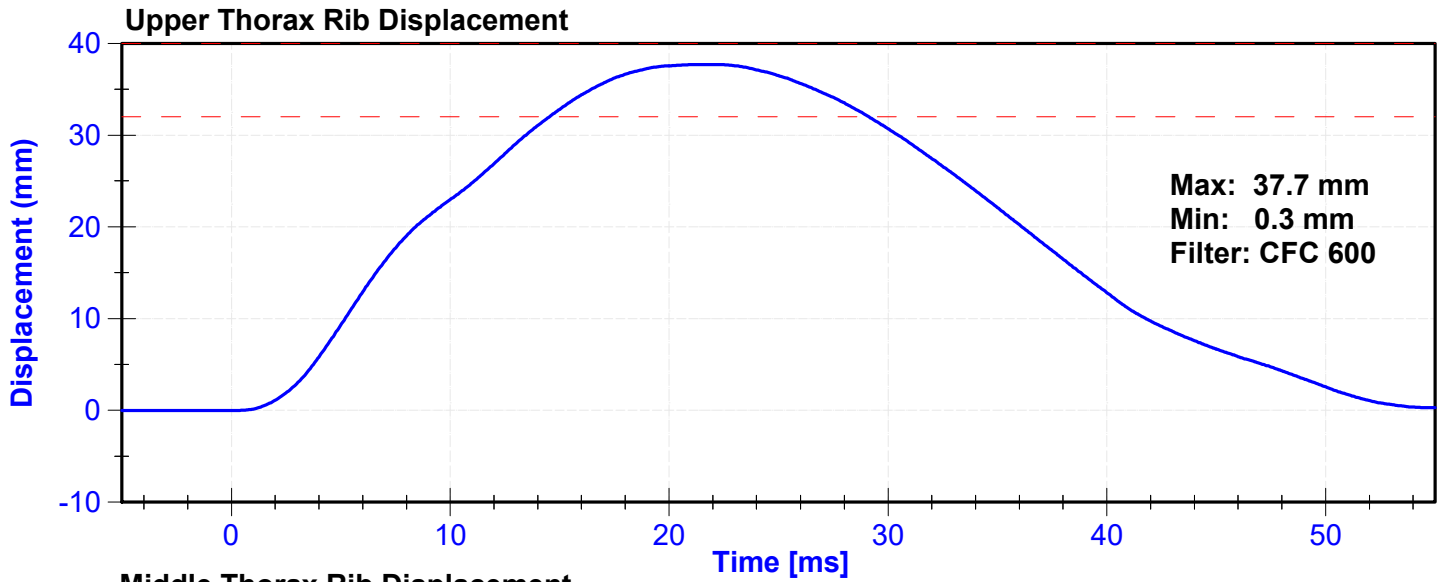
Results

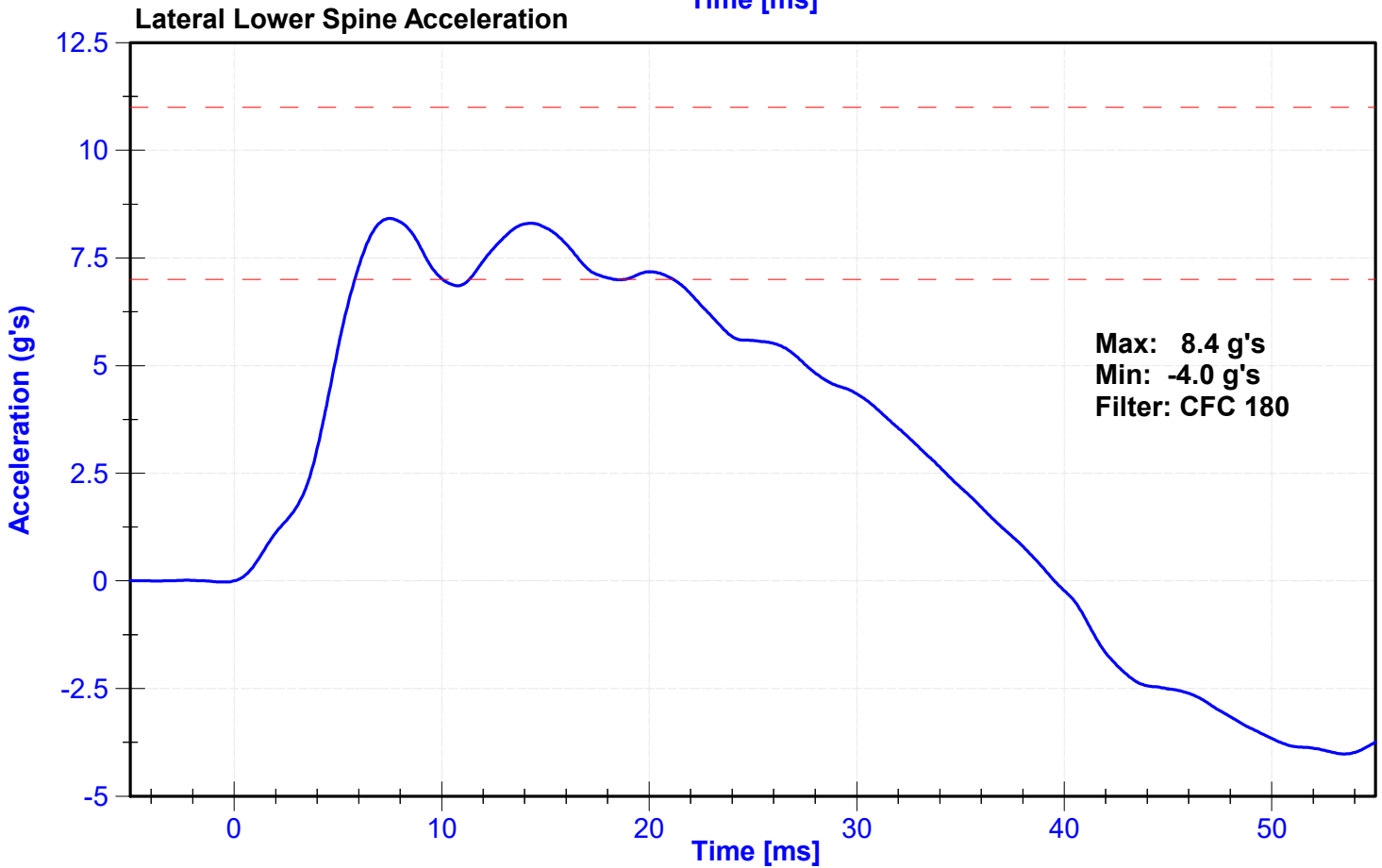
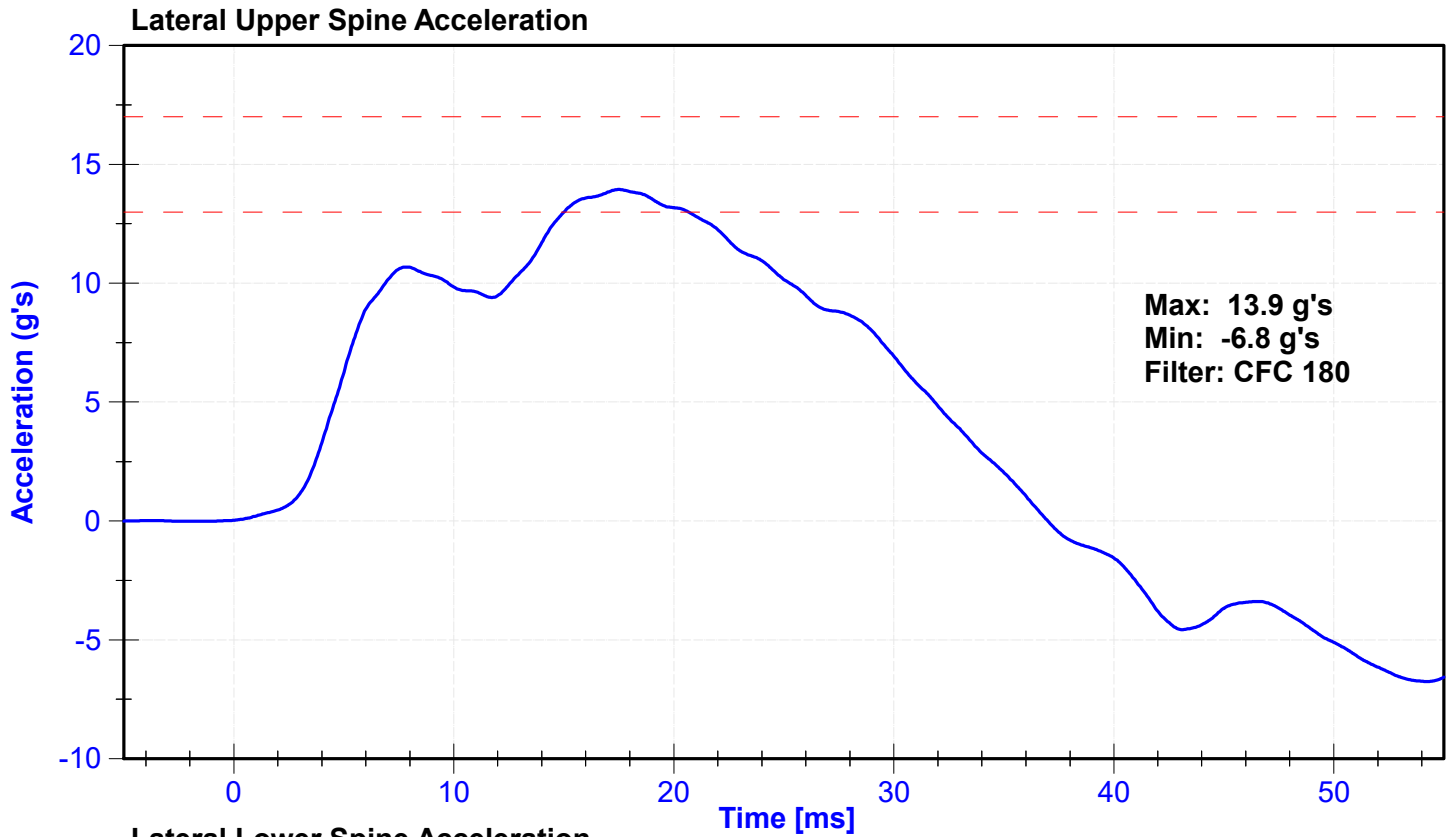
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.7	Pass
Humidity	10	70	%	28	Pass
Velocity	4.2	4.4	m/s	4.27	Pass
Probe Acceleration	14	18	g's	15.0	Pass
Lateral Upper Spine Acceleration	13	17	g's	13.9	Pass
Lateral Lower Spine Acceleration	7	11	g's	8.4	Pass
Upper Thorax Rib Deflection	32	40	mm	37.7	Pass
Middle Thorax Rib Deflection	39	45	mm	40.7	Pass
Lower Thorax Rib Deflection	35	43	mm	36.1	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Upper Spine Y Accelerometer	Endevco	P52018	11/25/2024	5/24/2025
Lower Spine Y Accelerometer	Endevco	P52071	10/17/2024	4/15/2025
Upper Thorax Rib Potentiometer	Servo	2316GFE	10/16/2024	4/16/2025
Middle Thorax Rib Potentiometer	Servo	085GFE	10/16/2024	4/16/2025
Lower Thorax Rib Potentiometer	Servo	1156GFE	10/16/2024	4/16/2025







ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

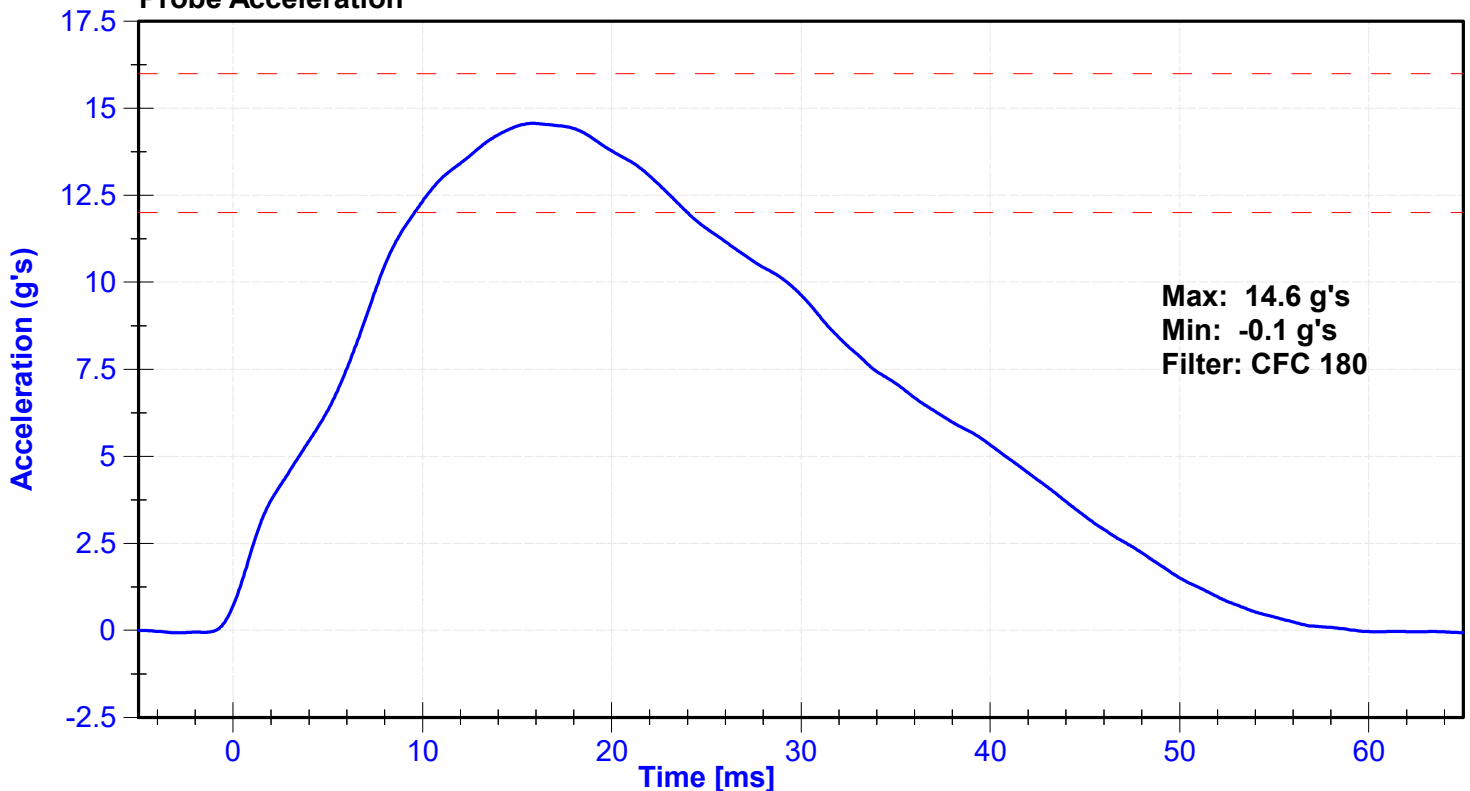
Results

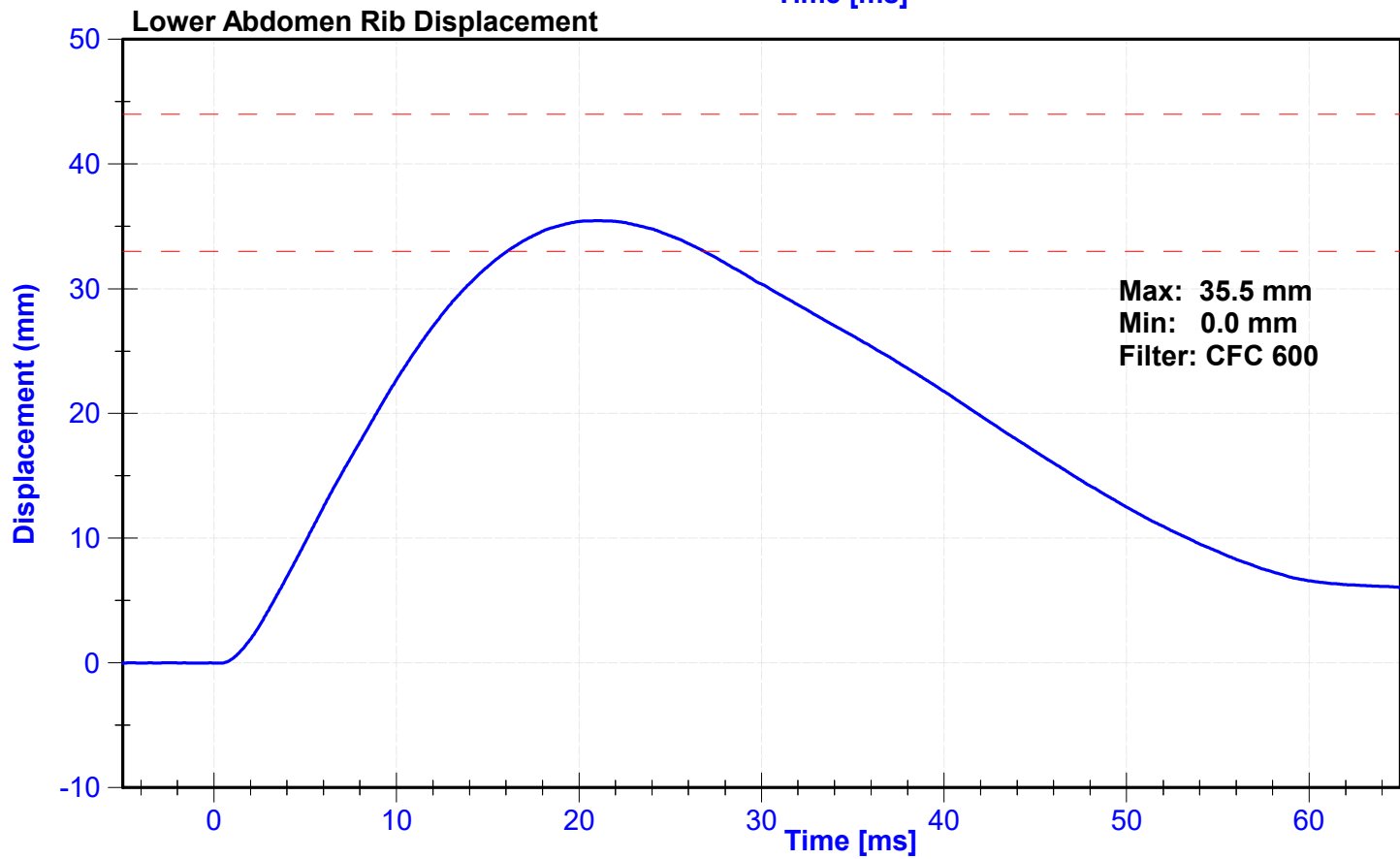
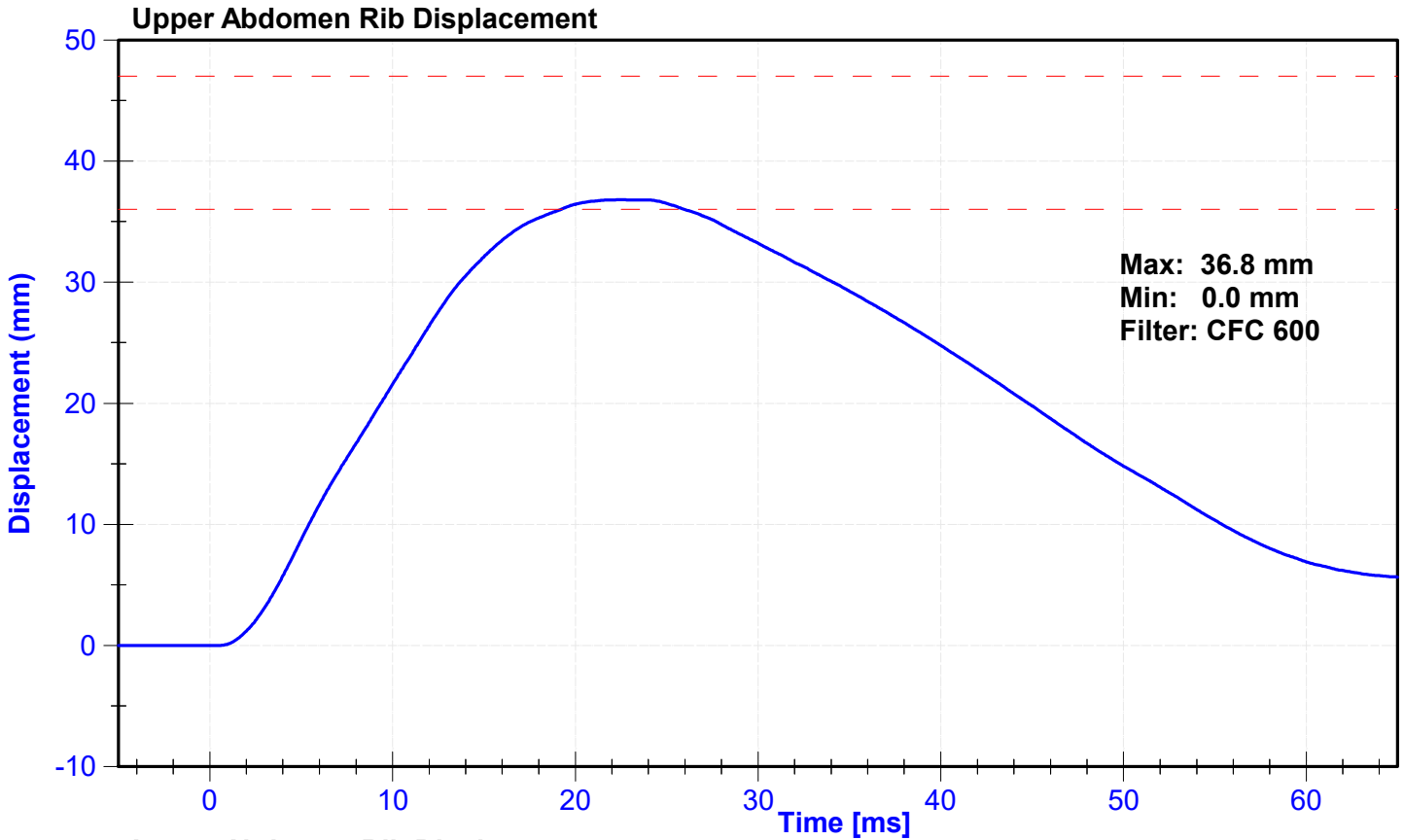
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.7	Pass
Humidity	10	70	%	28	Pass
Velocity	4.2	4.4	m/s	4.29	Pass
Probe Acceleration	12	16	g's	14.6	Pass
Lateral Lower Spine Acceleration	9	14	g's	11.6	Pass
Upper Abdomen Rib Deflection	36	47	mm	36.8	Pass
Lower Abdomen Rib Deflection	33	44	mm	35.5	Pass

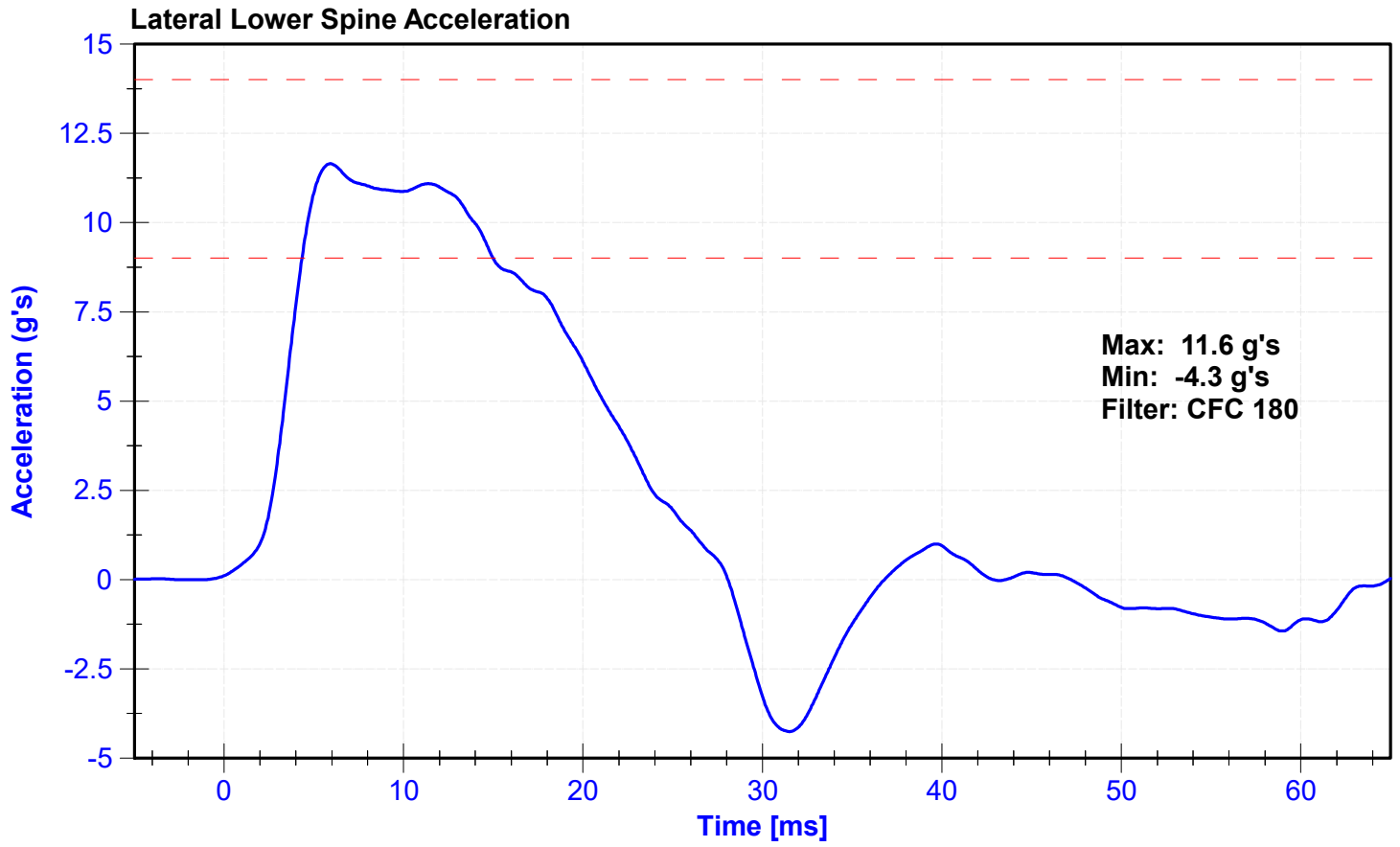
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Probe Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Lower Spine Y Accelerometer	Endevco	P52071	10/17/2024	4/15/2025
Upper Abdomen Rib Potentiometer	Servo	074GFE	10/16/2024	4/16/2025
Lower Abdomen Rib Potentiometer	Servo	075GFE	10/16/2024	4/16/2025

Probe Acceleration







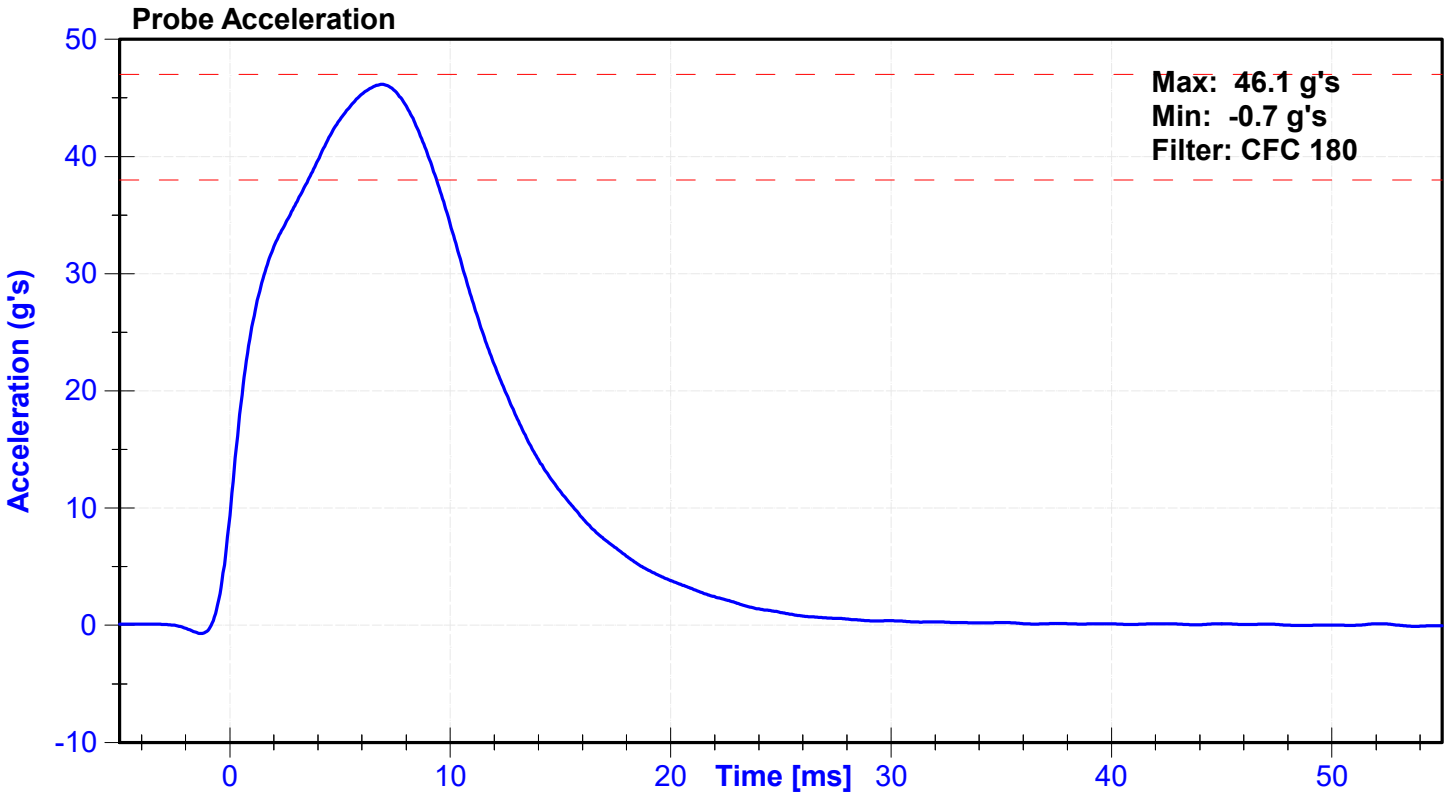
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

Results

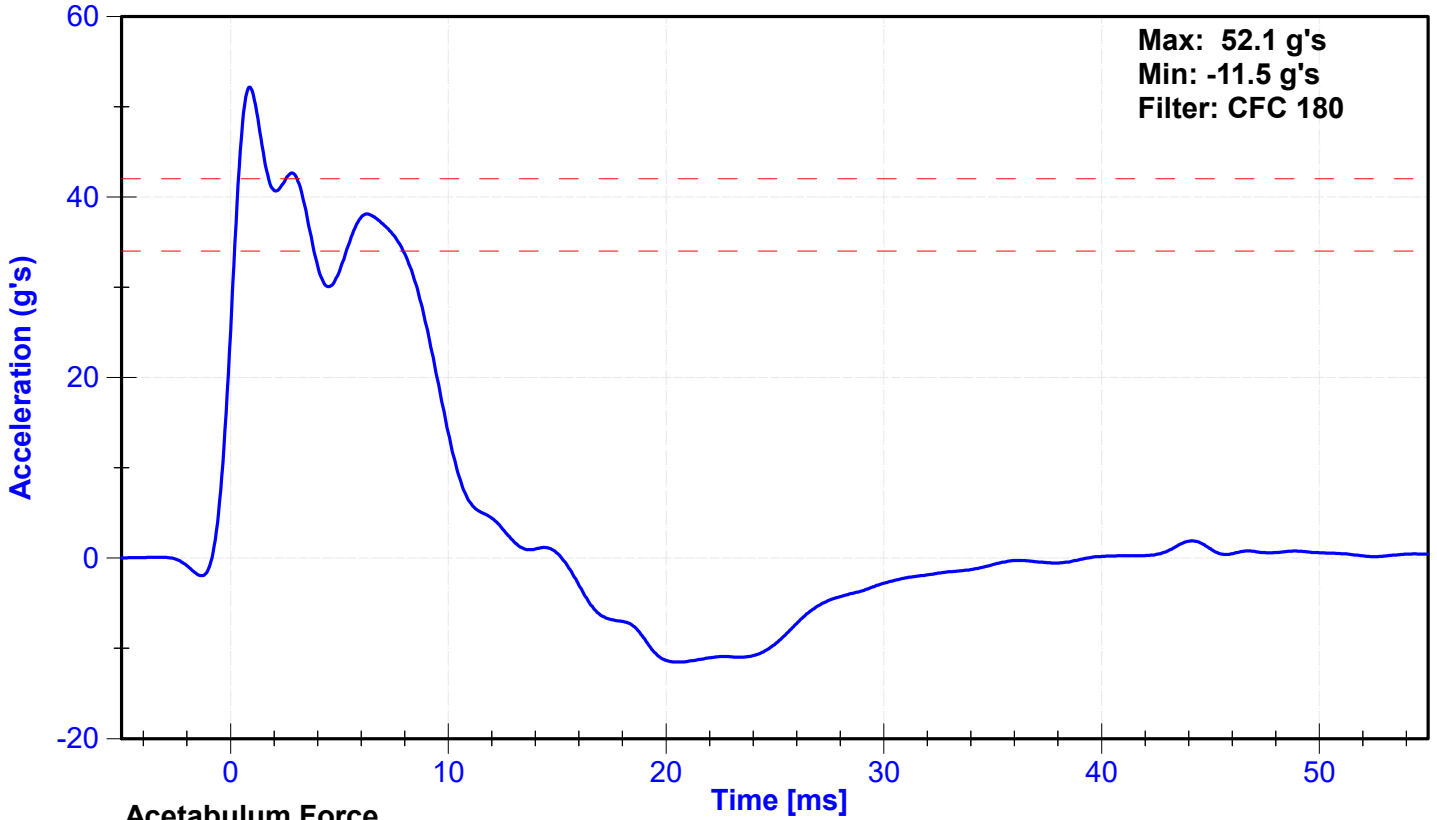
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.7	Pass
Humidity	10	70	%	28	Pass
Velocity	6.6	6.8	m/s	6.67	Pass
Probe Acceleration	38	47	g's	46.1	Pass
Lateral Pelvis Acceleration after 6ms	34	42	g's	38.1	Pass
Acetabulum Force	3600	4300	N	4075.0	Pass

Transducer Calibrations

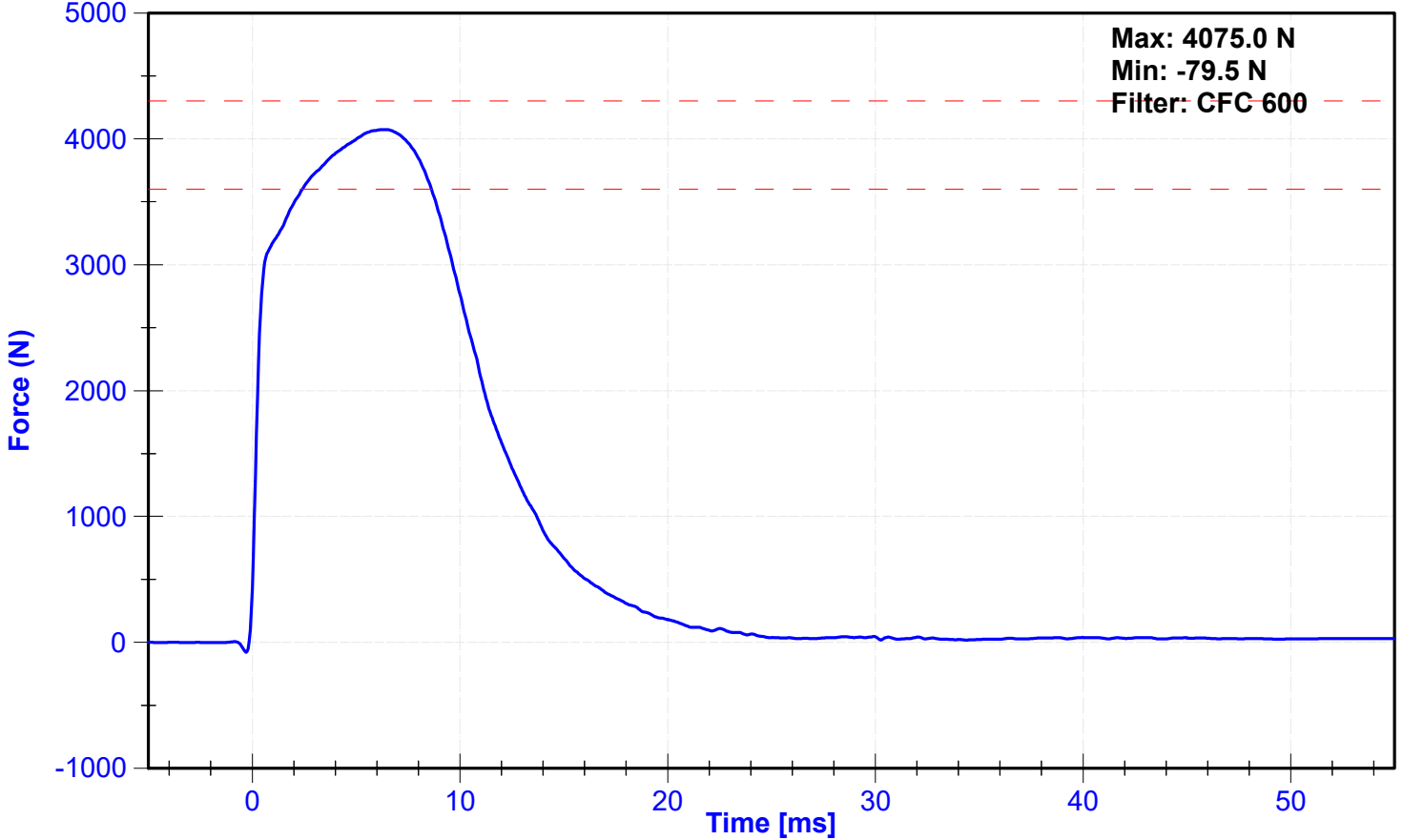
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Pelvis Y Accelerometer	Endevco	P51731	10/17/2024	4/15/2025
Acetabulum Load Cell	Denton	275-FY	10/28/2024	10/28/2025
Certification Plug	SACO			N/A
Crash Test Plug	SACO			N/A



Lateral Pelvis Acceleration



Acetabulum Force





SID-11s Pelvis Plug Certification Test

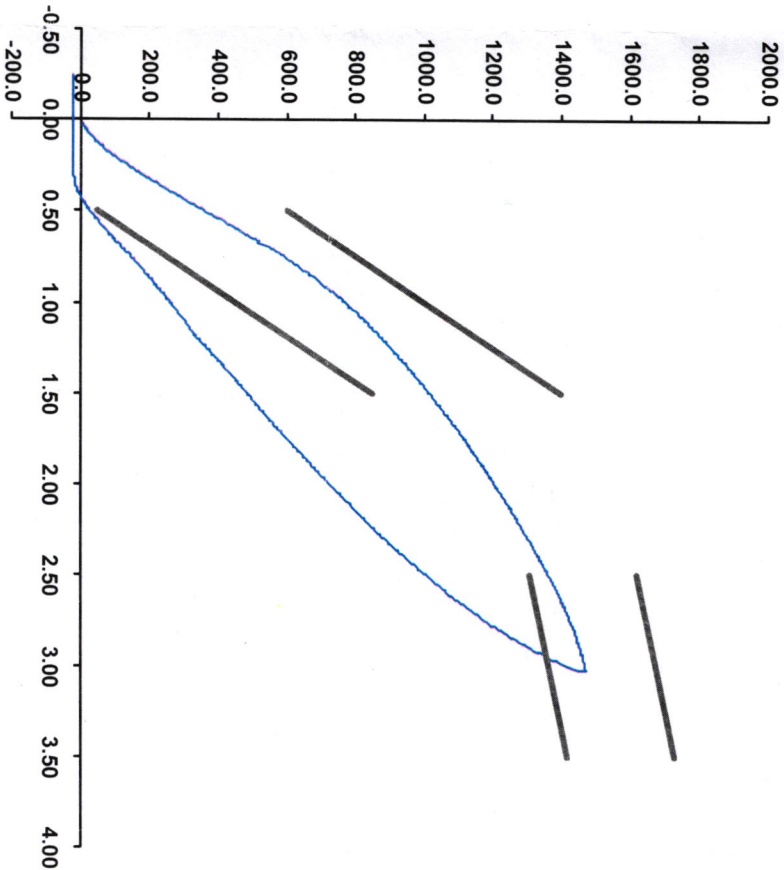
Plug S/N 16824
 Test Number 23635
 Report Number 23692
 Test Date 7/25/2022 10:01:25 AM

Force (-N) vs Extension (-mm)

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

Testing Machine STM-20 5965542
 Load Cell S/N (F1360947), Units (LBS) 1000
 Crosshead Speed (mm / min) or Rate 12.7
 Extension or Position Measured by XHD_100 (XHD100)

Notes:
 Test Plug 360 8-24-25



Operator

Part Number 180-4450

Template No 107 25-Jul-22
 SACO Research

By: DC Date: 7/25/22

SACO Research 41735 Elm St, #401 Murrieta, CA 92562 Tel 310-694-2082 FAX



SID-ILS Pelvis Plug Certification Test

Plug S/N 16818

Test Number 23629

Report Number 23686

Test Date 7/25/2022 9:38:29 AM

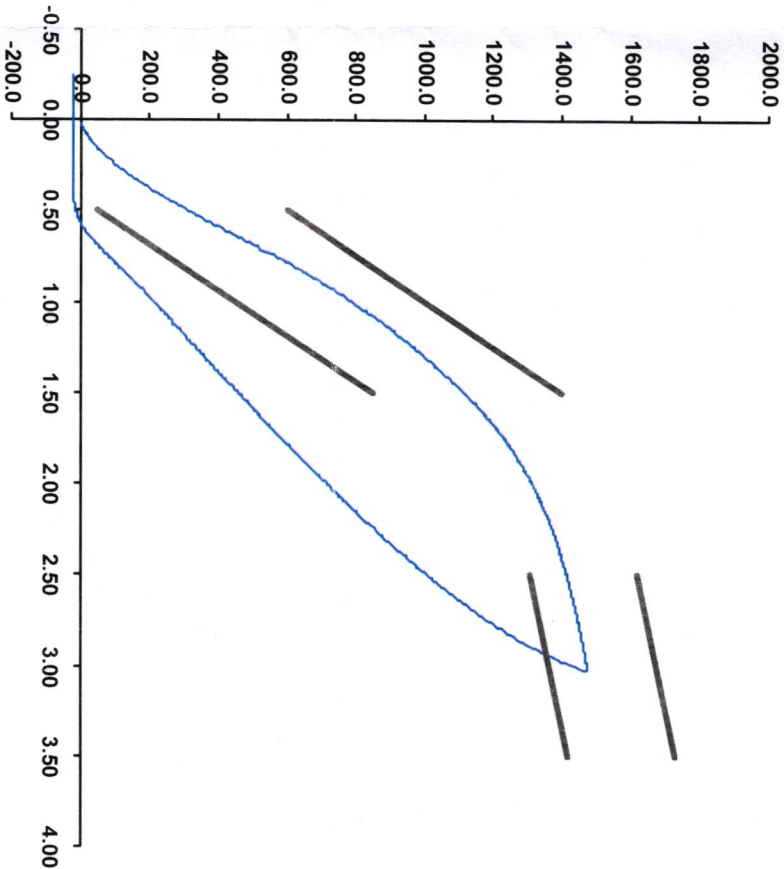
Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	50	600
Force @ 1.5 mm (N)	850	1,400
Force @ 2.5 mm (N)	1,306	1,618
Force @ 3.0 mm (N)	1,361	1,673

Testing Machine STM-20 5965542
 Load Cell S/N (F1360947), Units (LBS) 1000

Crosshead Speed (mm / min) or Rate 12.7
 Extension or Position Measured by XHD_100 (XHD100)

Notes:
 IMPACT PLUG 300 3-24-28

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107 25-Jul-22
 SACO Research

By: DC

Date: 7/25/22

SACO Research 41735 Elm St, #401 Murrieta, CA 92562 Tel 310-694-2082 FAX



SID-ILS Pelvis Plug Certification Test

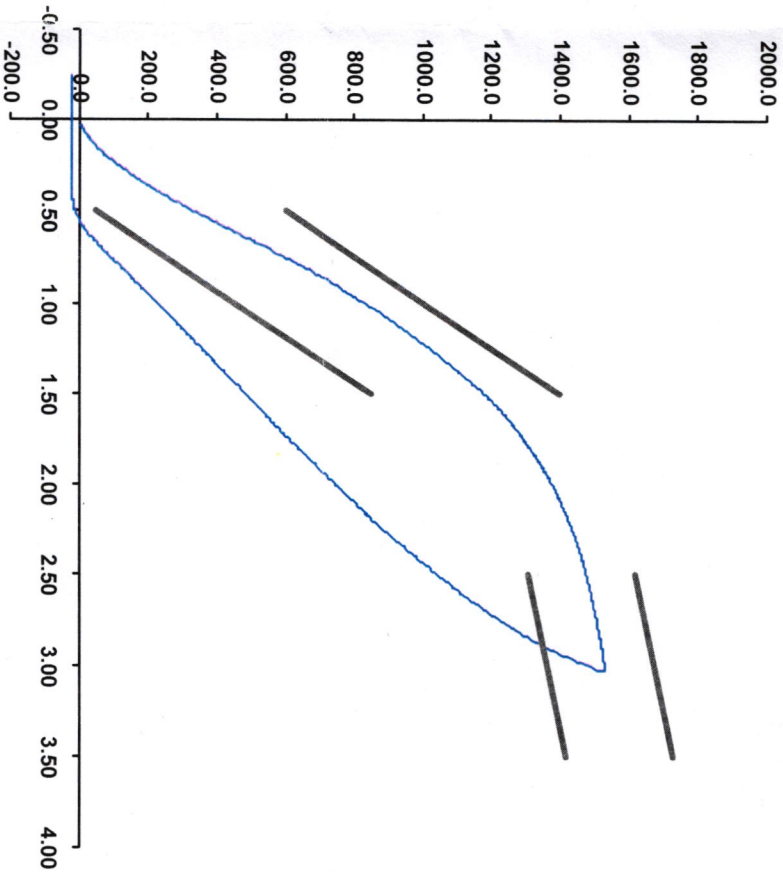
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 Report Number 23696
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Force (-N) vs Extension (-mm)

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

Testing Machine STM-20 5965542
 Load Cell S/N (F1360947), Units (LBS) 1000
 Crosshead Speed (mm / min) or Rate 12.7
 Extension or Position Measured by XHD_100 (XHD100)

Notes:
 NON IMPACT 300 3-24-25



Operator

Part Number 180-4450

Template No 107 25-Jul-22
 SACO Research

By: DC Date: 7/25/22

SACO Research 41735 Elm St, #401 Murrieta, CA 92562 Tel 310-694-2082 FAX

ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

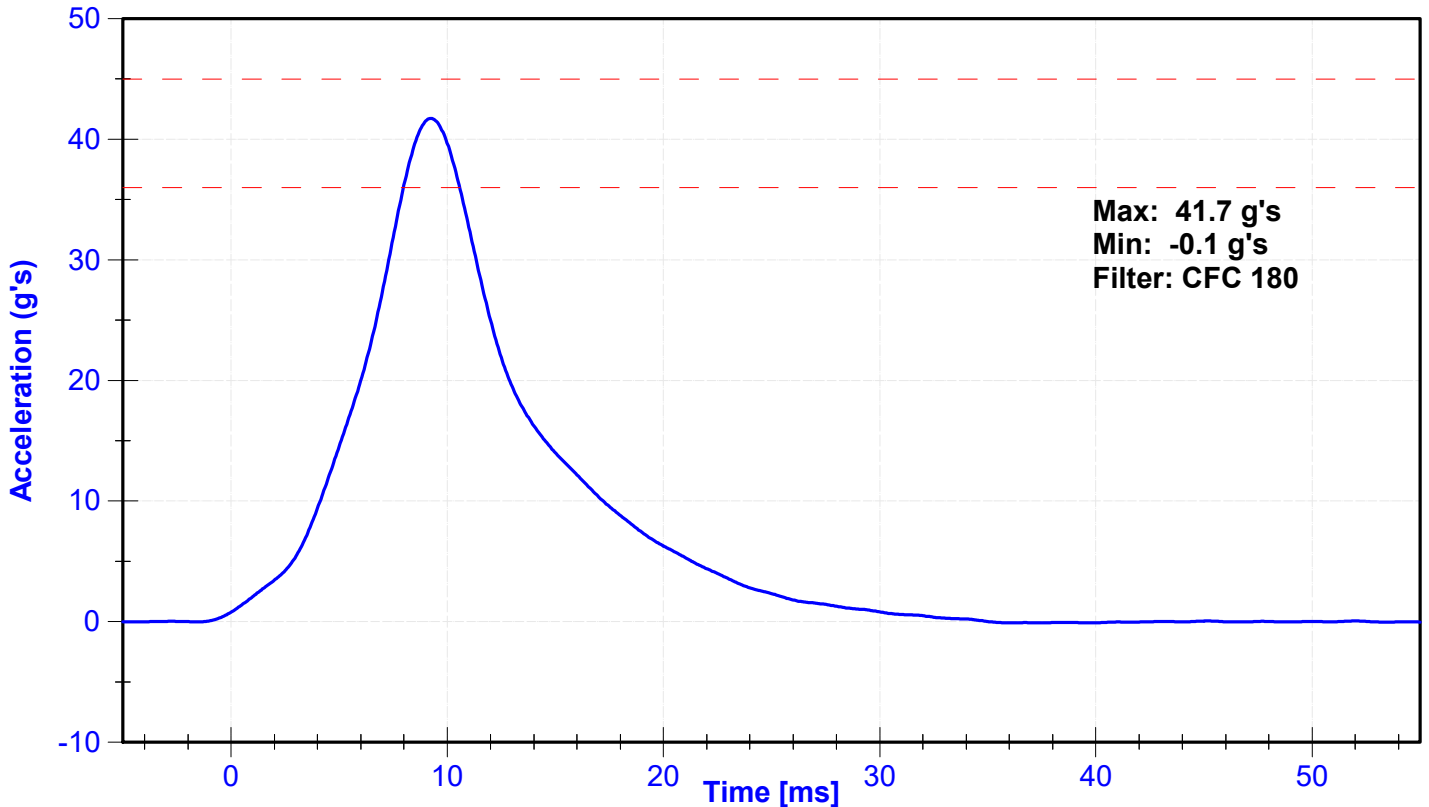
Results

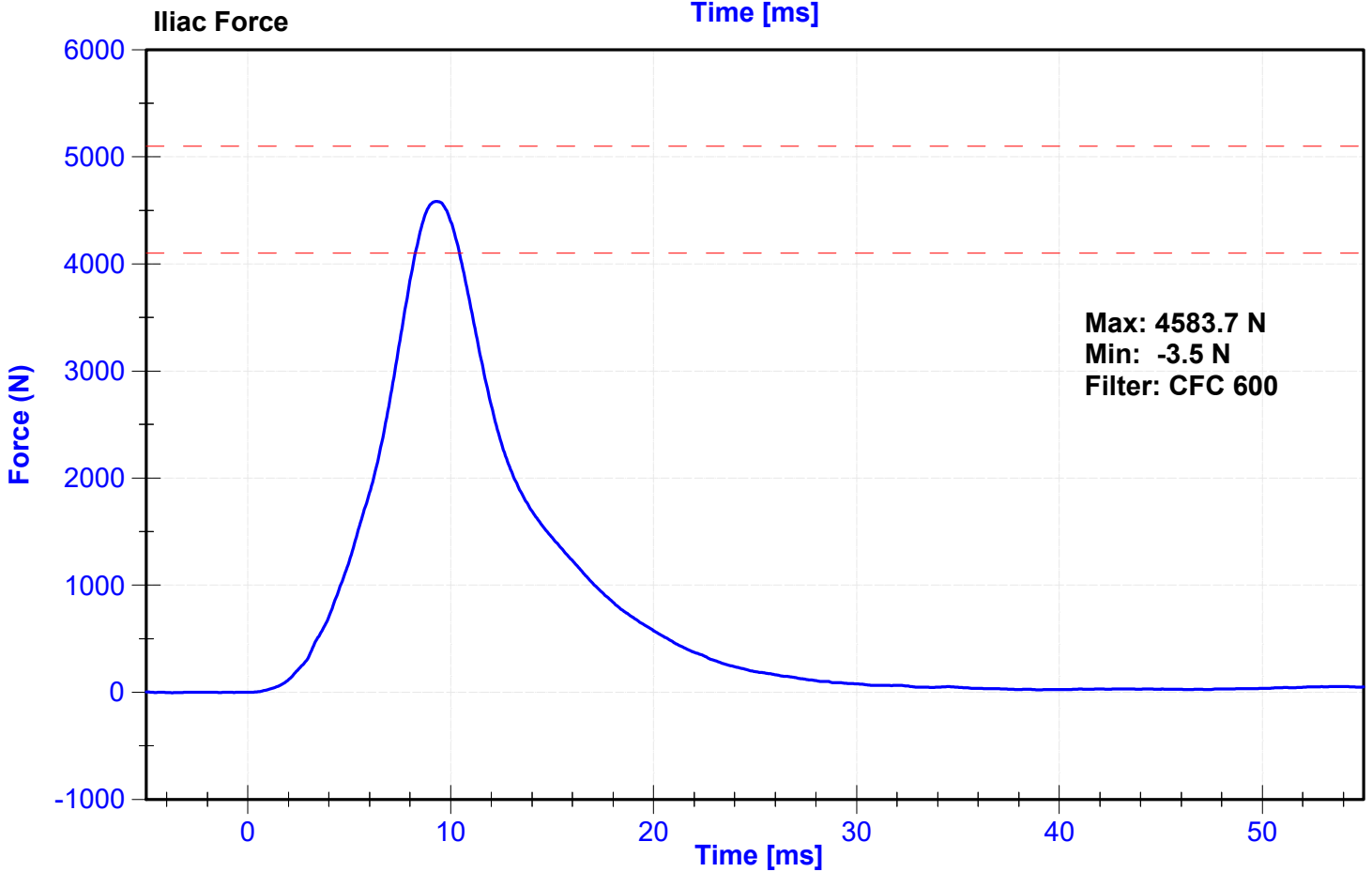
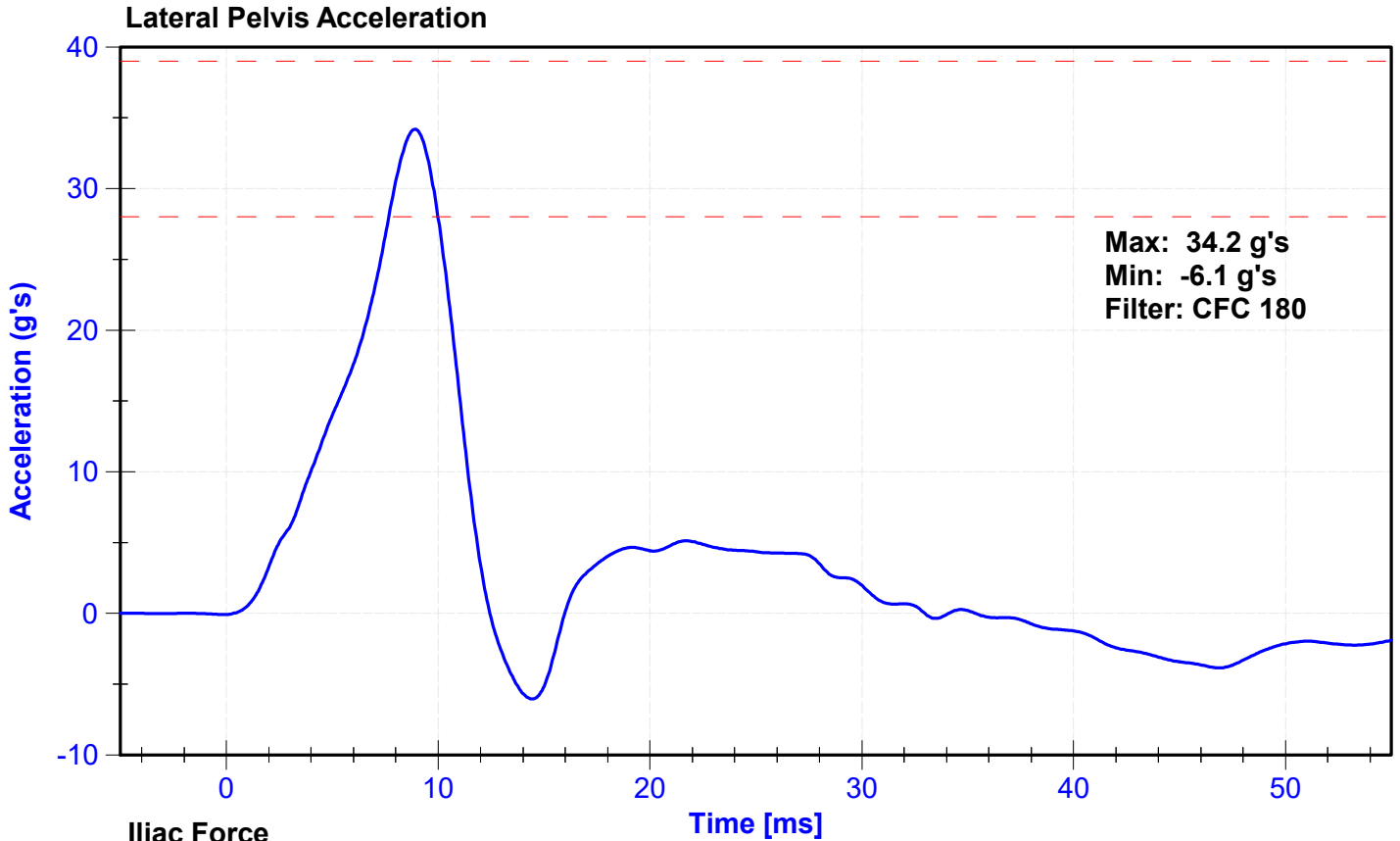
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	20.7	Pass
Humidity	10	70	%	28	Pass
Velocity	4.2	4.4	m/s	4.28	Pass
Probe Acceleration	36	45	g's	41.7	Pass
Lateral Pelvis Acceleration	28	39	g's	34.2	Pass
Iliac Force	4100	5100	N	4583.7	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Pelvis Y Accelerometer	Endevco	P51731	10/17/2024	4/15/2025
Iliac Load Cell	Denton	279-FY	10/28/2024	10/28/2025

Probe Acceleration





CALIBRATION TEST RESULTS

POST-TEST

SID-IIS 5TH PERCENTILE FEMALE - DRIVER ATD

SERIAL NO:300

(CONFIGURED FOR LEFT SIDE IMPACT)

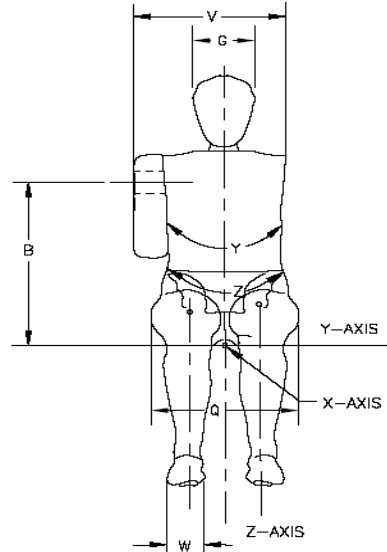
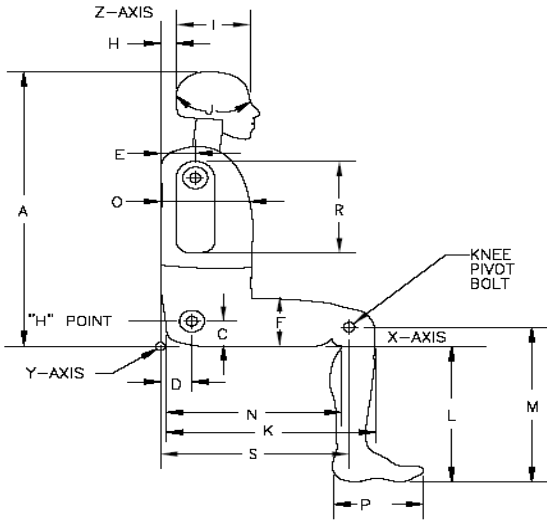


External Measurements - SID-IIs

Technician: J. Rios

Date: 4/4/2025

Dummy Serial Number: 300



Symbol	Description	Specification (mm)		Result (mm)	Pass/Fail
A	Sitting Height	772	788	786	Pass
B	Shoulder Pivot Height	437	453	442	Pass
C	H-point Height	79	89	83	Pass
D	H-point from seatback	141	151	144	Pass
E	Shoulder Pivot from Backline	97	107	102	Pass
F	Thigh Clearance	119	135	126	Pass
G	Head Breadth	140	148	144	Pass
H	Head Back from Backline	40	46	43	Pass
I	Head Depth	178	188	182	Pass
J	Head Circumference	541	551	546	Pass
K	Buttock to Knee Length	514	540	527	Pass
L	Popliteal Height	343	369	354	Pass
M	Knee Pivot to floor height	392	409	401	Pass
N	Buttock Popliteal Length	416	442	434	Pass
O	Chest Depth w/o jacket	195	211	204	Pass
P	Foot Length	216	232	223	Pass
Q	Hip Breadth (w/pelvic plugs)	313	323	319	Pass
R	Arm Length	249	259	252	Pass
S	Knee Joint to seatback	477	493	489	Pass
V	Shoulder Width	341	357	351	Pass
W	Foot Width	78	94	80	Pass
Y	Chest Circumference w/jacket	851	881	870	Pass
Z	Waist Circumference	761	791	774	Pass

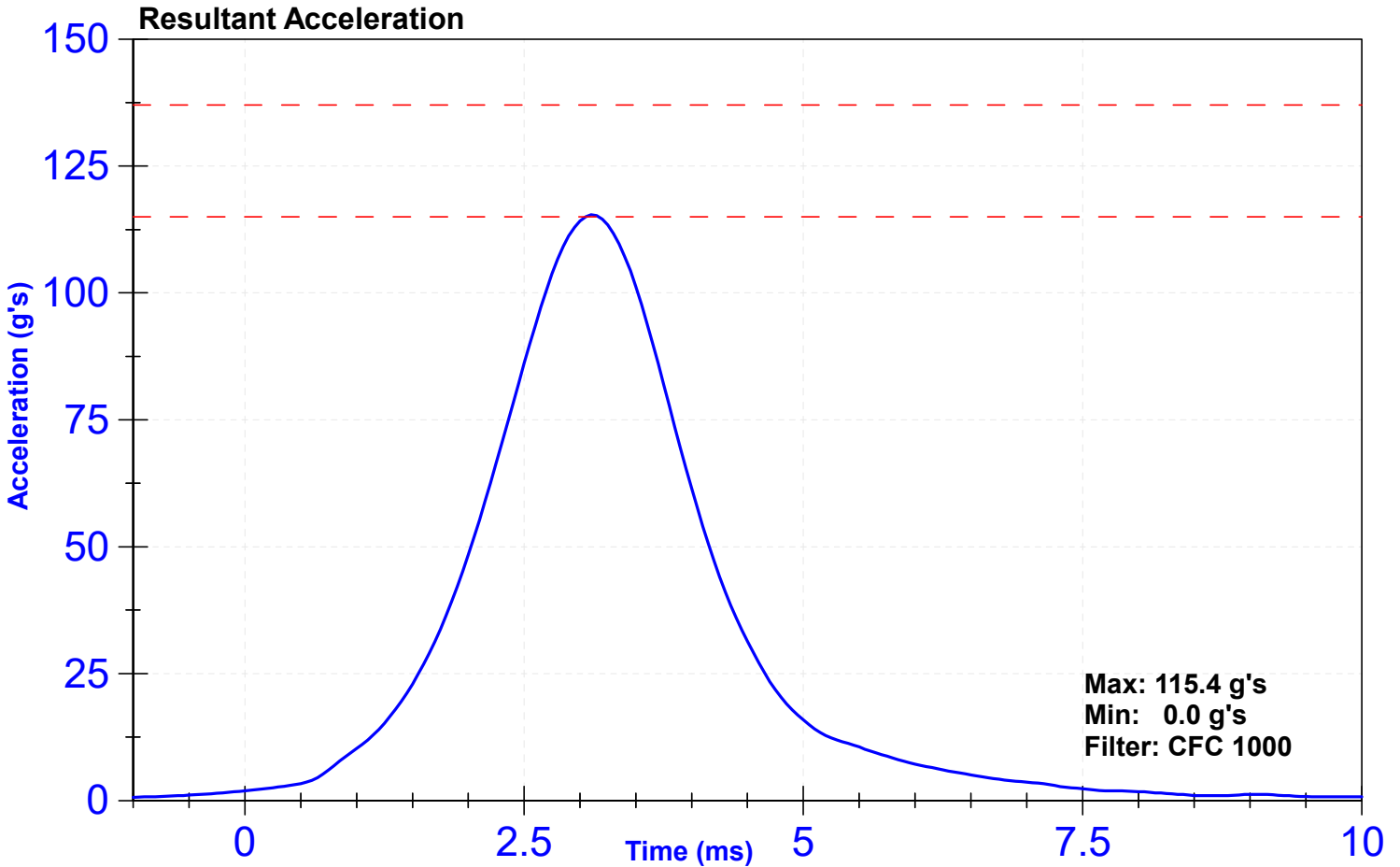
ATD Manufacturer	Humanetics	Test Technician	W. Brokx
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

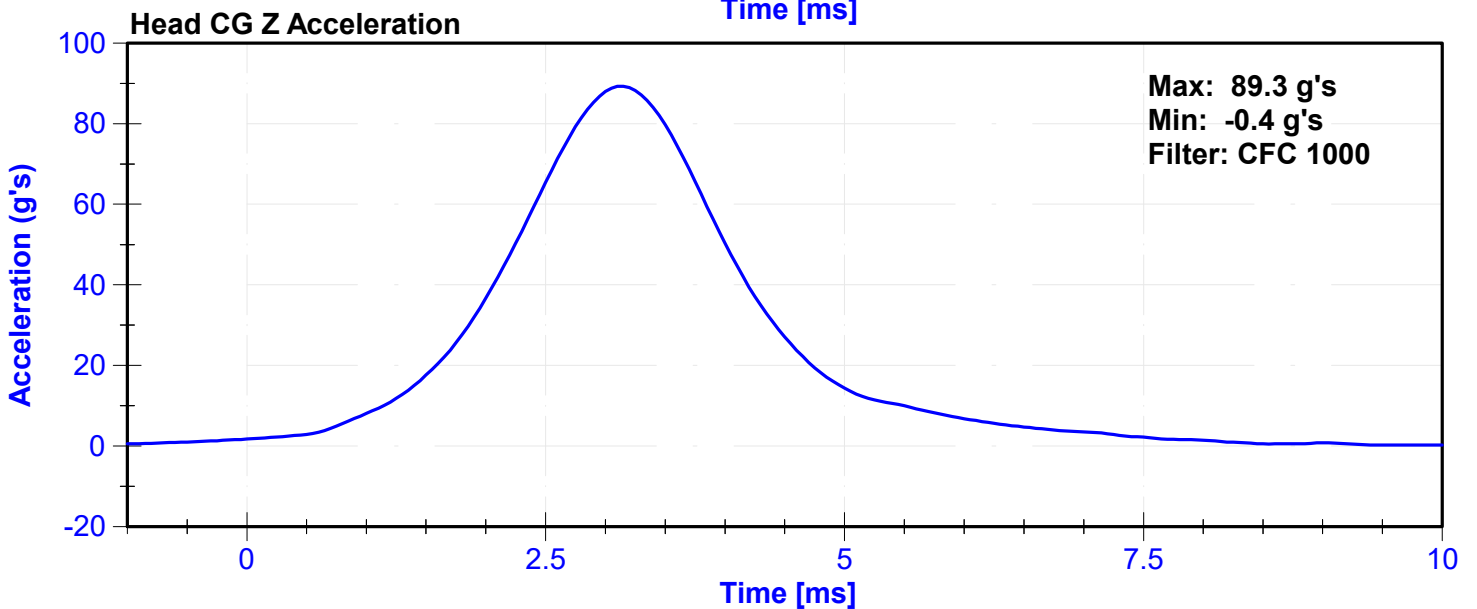
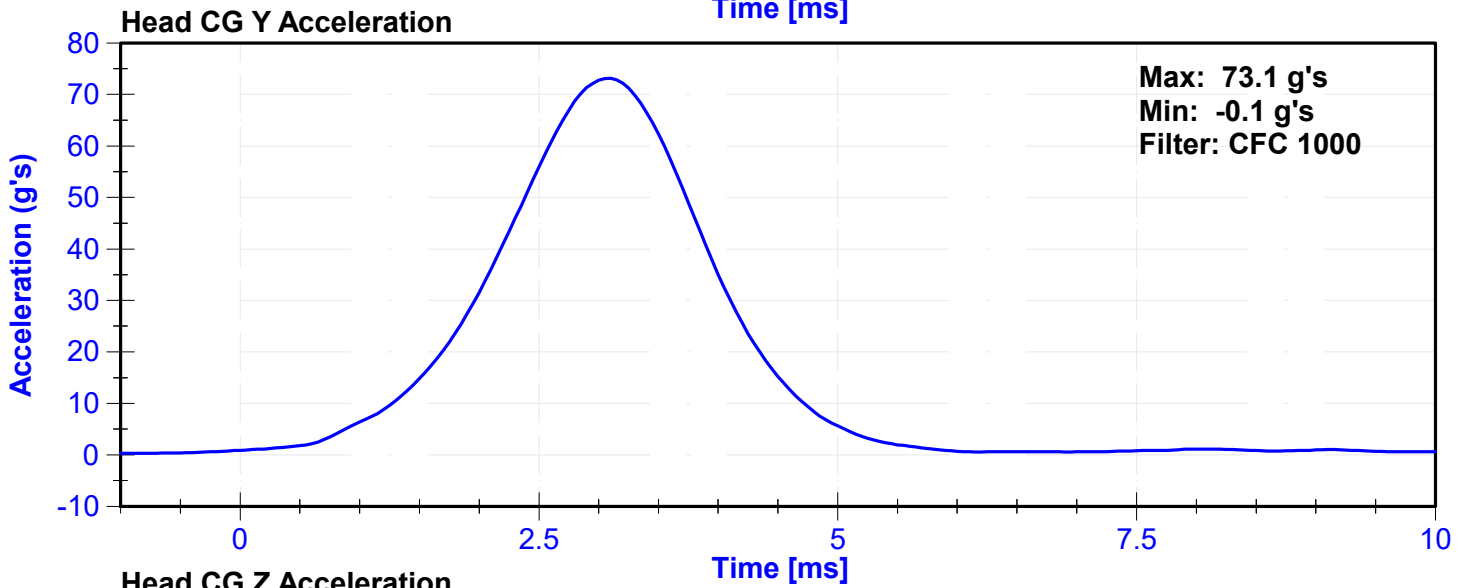
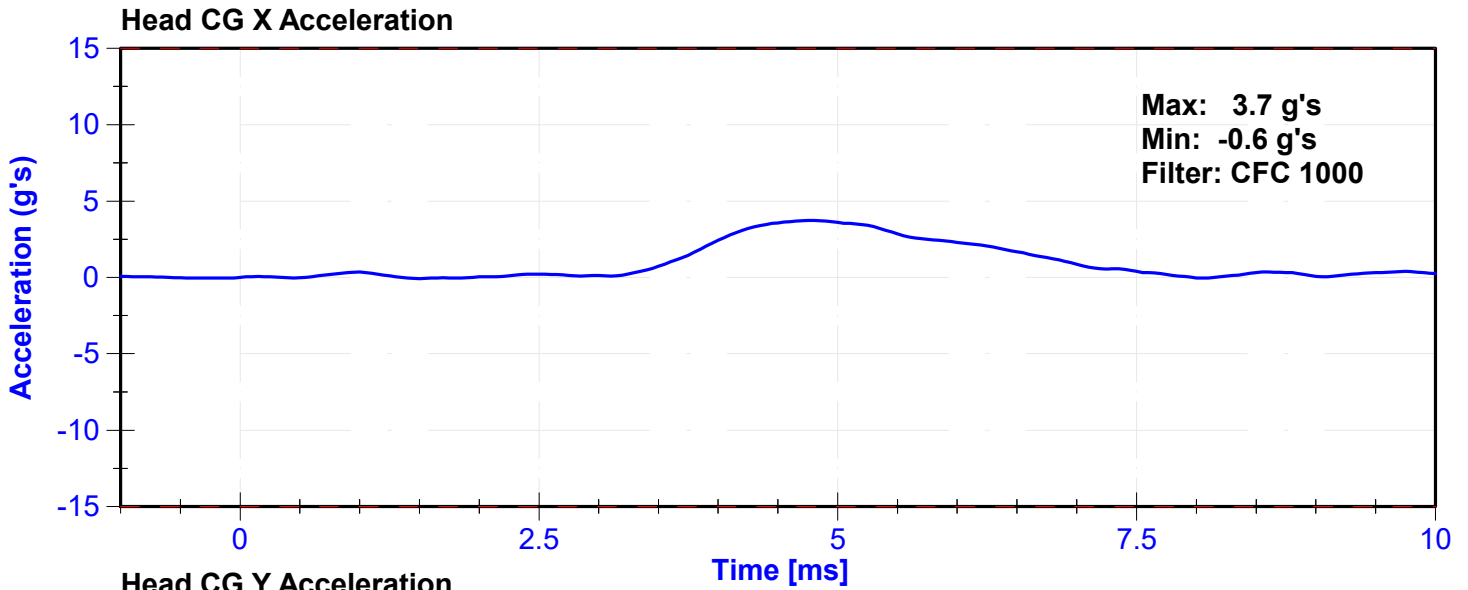
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.2	Pass
Humidity	10	70	%	40	Pass
Resultant Acceleration	115	137	g's	115.4	Pass
Oscillation	0	15	%	1.6	Pass
Fore-Aft Acceleration	-15	15	g's	3.7	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibratio Date	Calibratio Due Date
X Accelerometer	Endevco	P59018	10/17/2024	4/15/2025
Y Accelerometer	Endevco	P79189	10/17/2024	4/15/2025
Z Accelerometer	Endevco	P79587	10/17/2024	4/15/2025





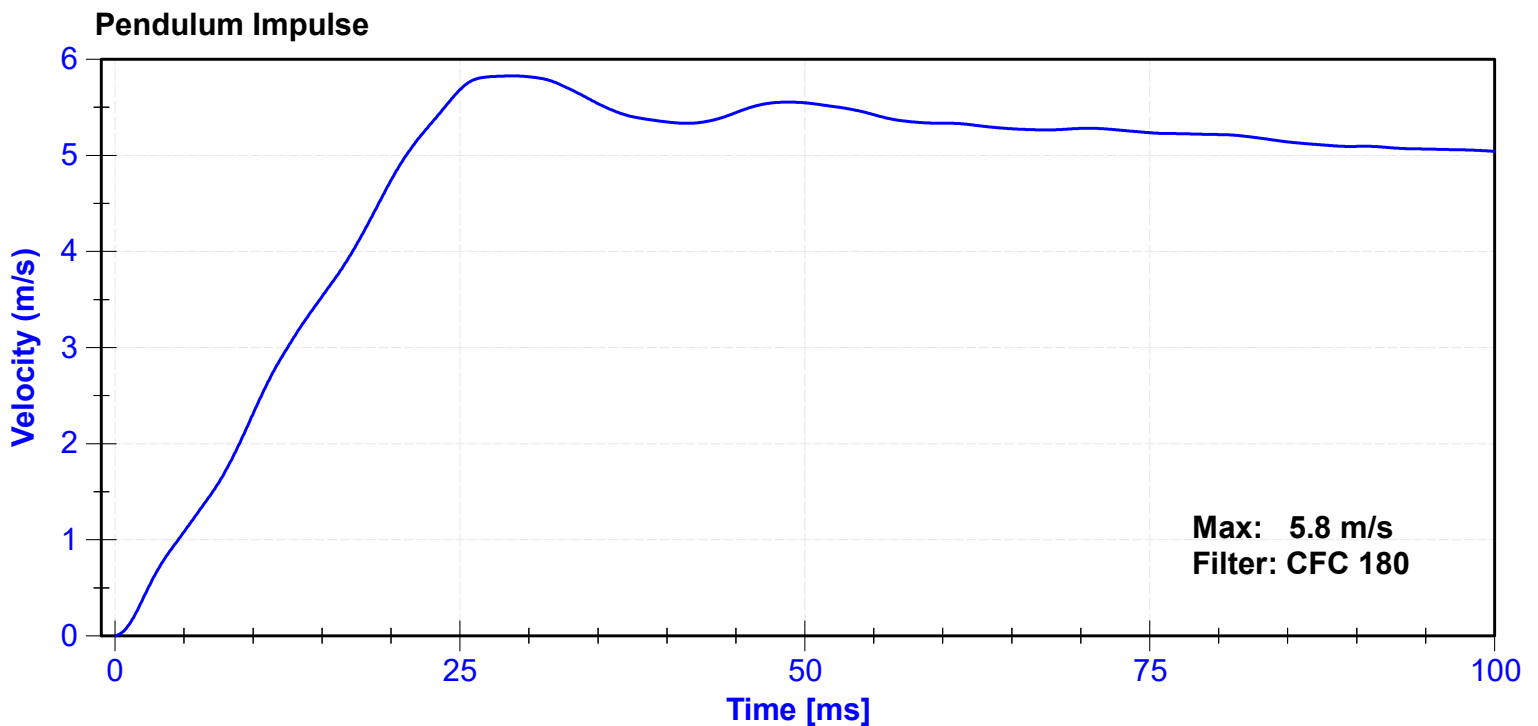
ATD Manufacturer	Humanetics	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

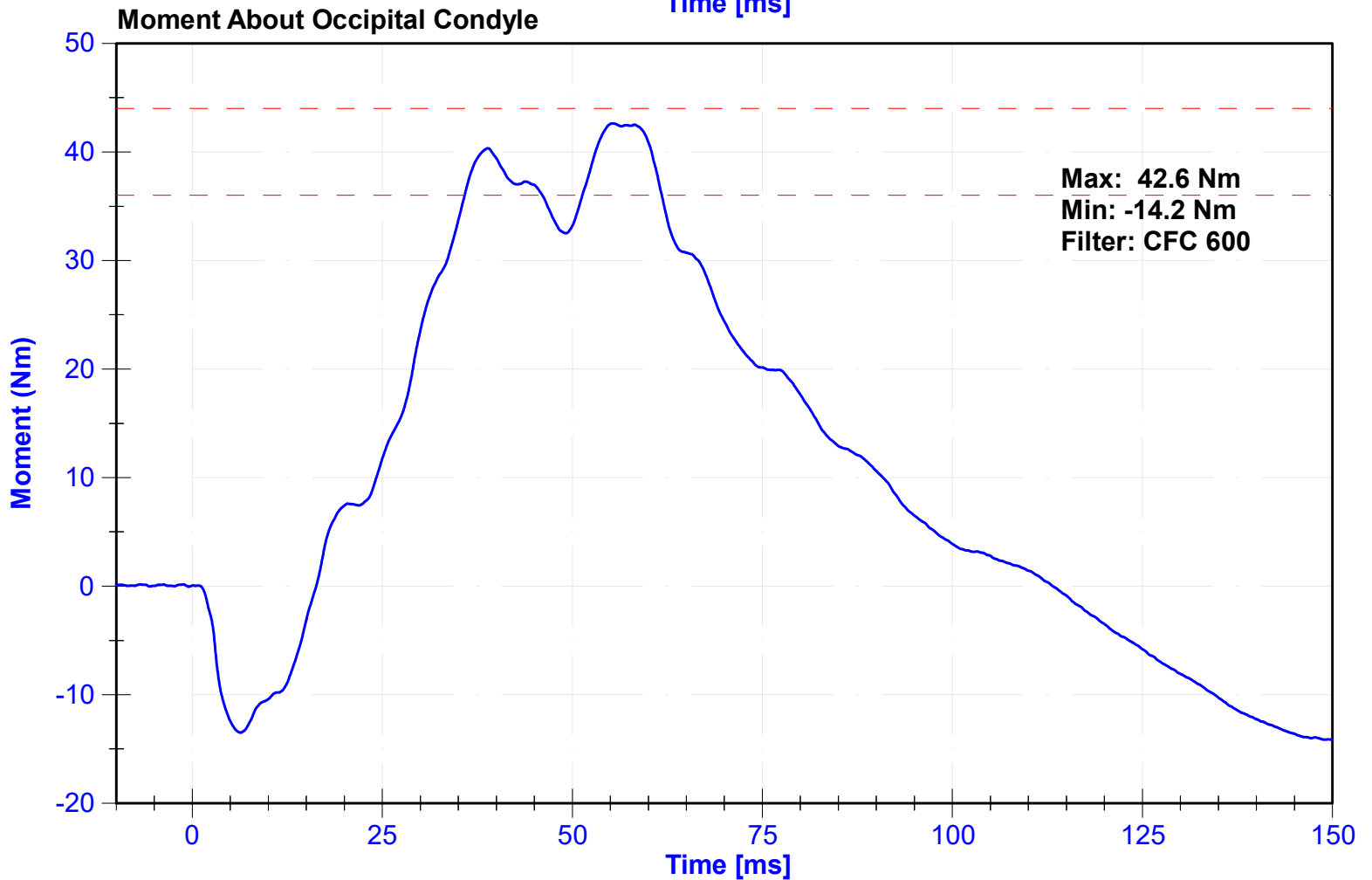
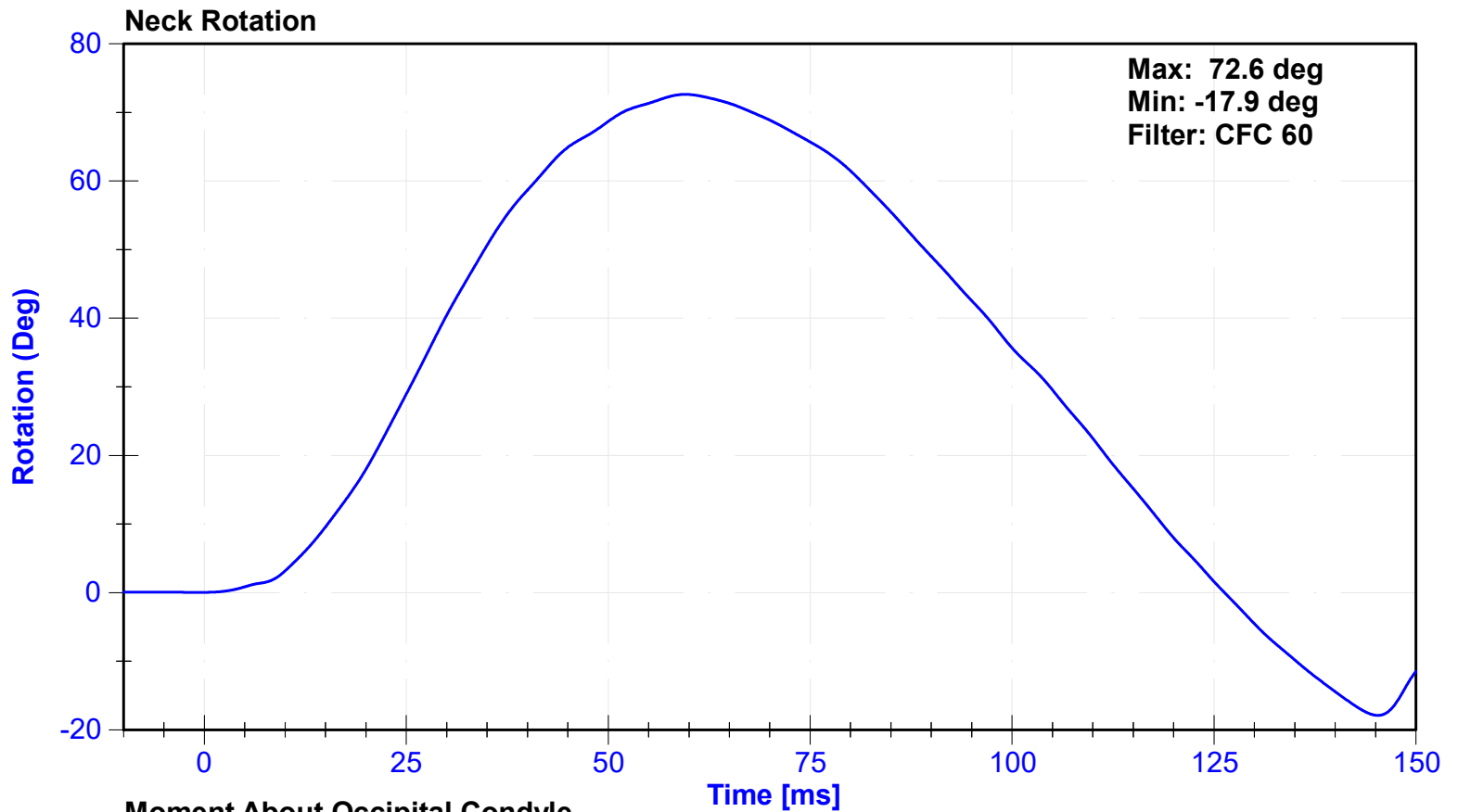
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.1	Pass
Humidity	10	70	%	40	Pass
Velocity	5.51	5.63	m/s	5.580	Pass
Pendulum Impulse at 10ms	2.2	2.8	m/s	2.31	Pass
Pendulum Impulse at 15ms	3.3	4.1	m/s	3.53	Pass
Pendulum Impulse at 20ms	4.4	5.4	m/s	4.74	Pass
Pendulum Impulse at 25ms	5.4	6.1	m/s	5.68	Pass
Pendulum Impulse from 25 to 100ms	5.5	6.2	m/s	5.83	Pass
Neck Rotation	71	81	deg	72.6	Pass
Time at Maximum Rotation	50	70	ms	59.5	Pass
Moment about the OC	36	44	Nm	42.6	Pass
Moment Decay to 0 Nm	102	126	ms	113.2	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	7231C-750	10/17/2024	4/15/2025
Pendulum Potentiometer	Servo	4961	9/23/2024	9/23/2025
Condyle Potentiometer	Servo	DS185	9/23/2024	9/23/2025
Upper Neck Load Cell	Denton	1716_1805	2/25/2025	2/25/2026





ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

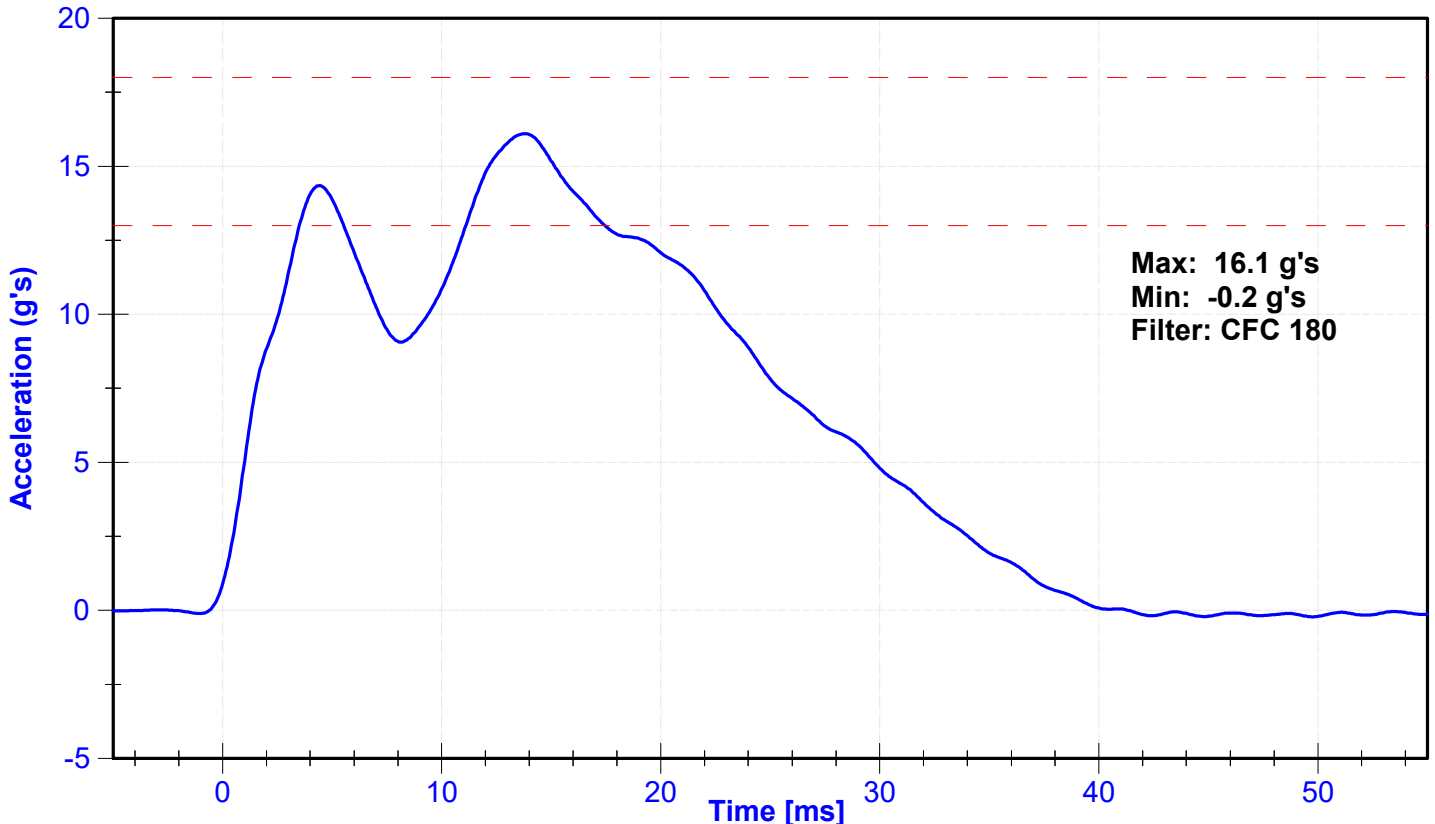
Results

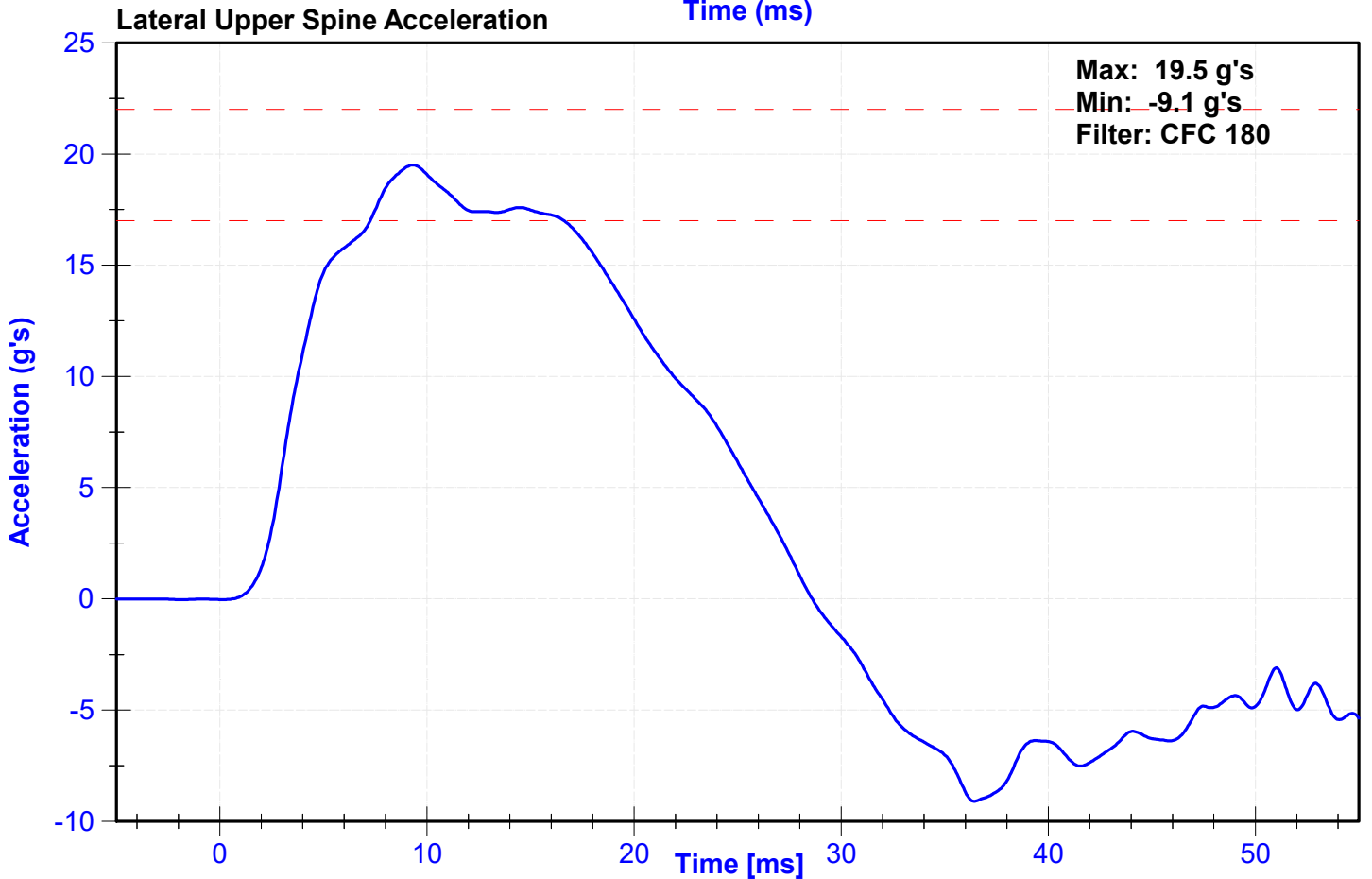
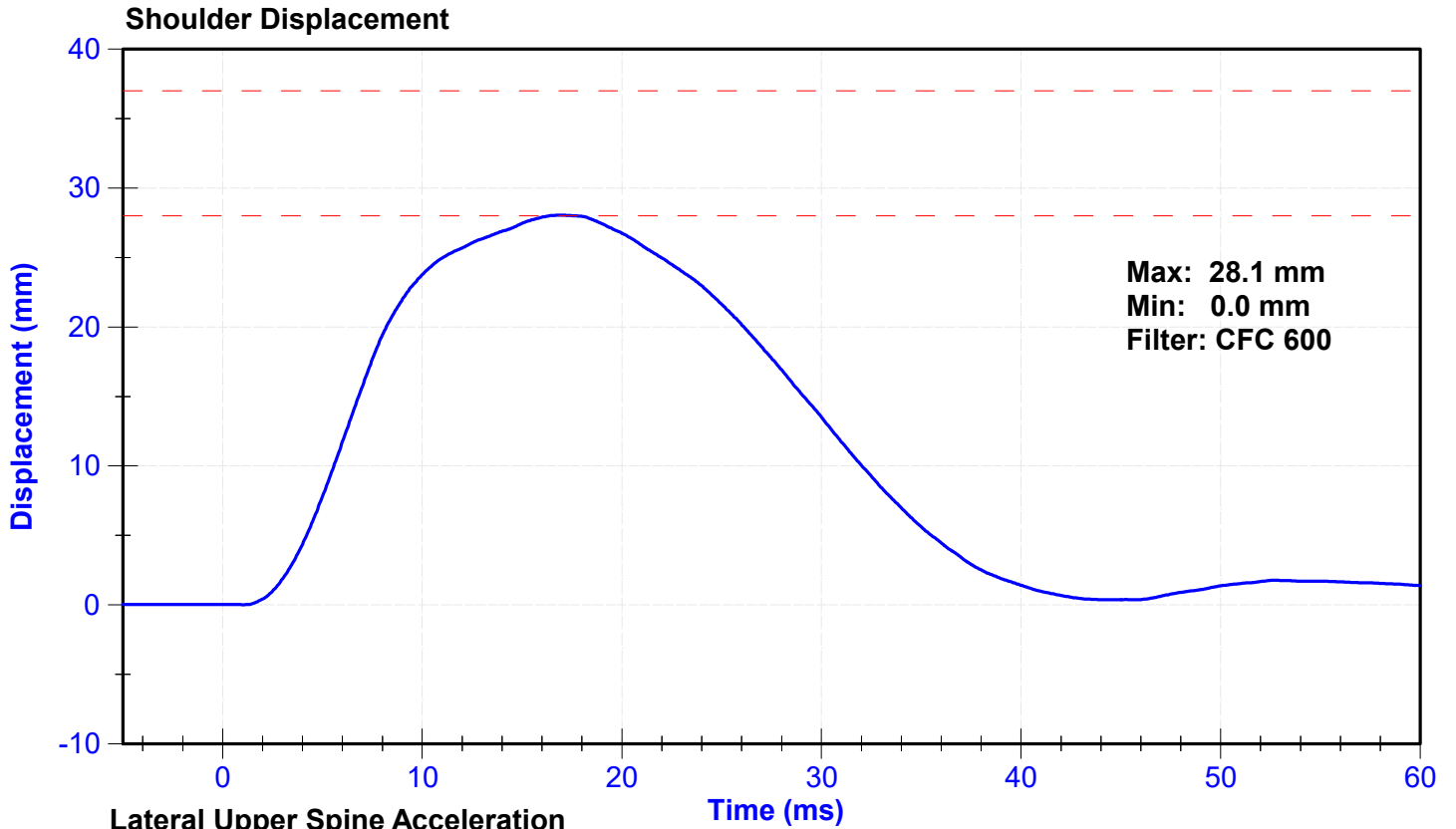
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.1	Pass
Humidity	10	70	%	30	Pass
Velocity	4.2	4.4	m/s	4.28	Pass
Probe Acceleration	13	18	g's	16.1	Pass
Shoulder Deflection	28	37	mm	28.1	Pass
Lateral Upper Spine Acceleration	17	22	g's	19.5	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Shoulder Potentiometer	Servo	053GFE	10/16/2024	4/16/2025
Upper Spine Y Accelerometer	Endevco	P52018	11/25/2024	5/24/2025

Probe Acceleration





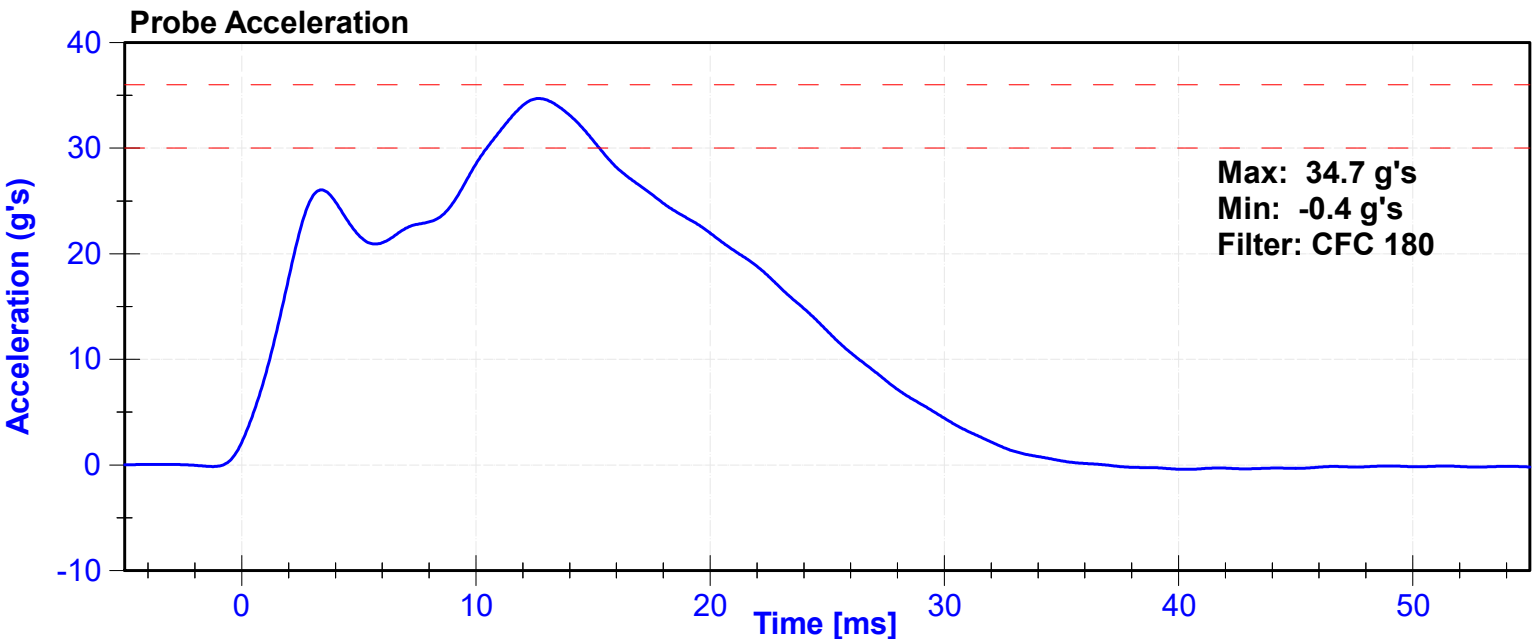
ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

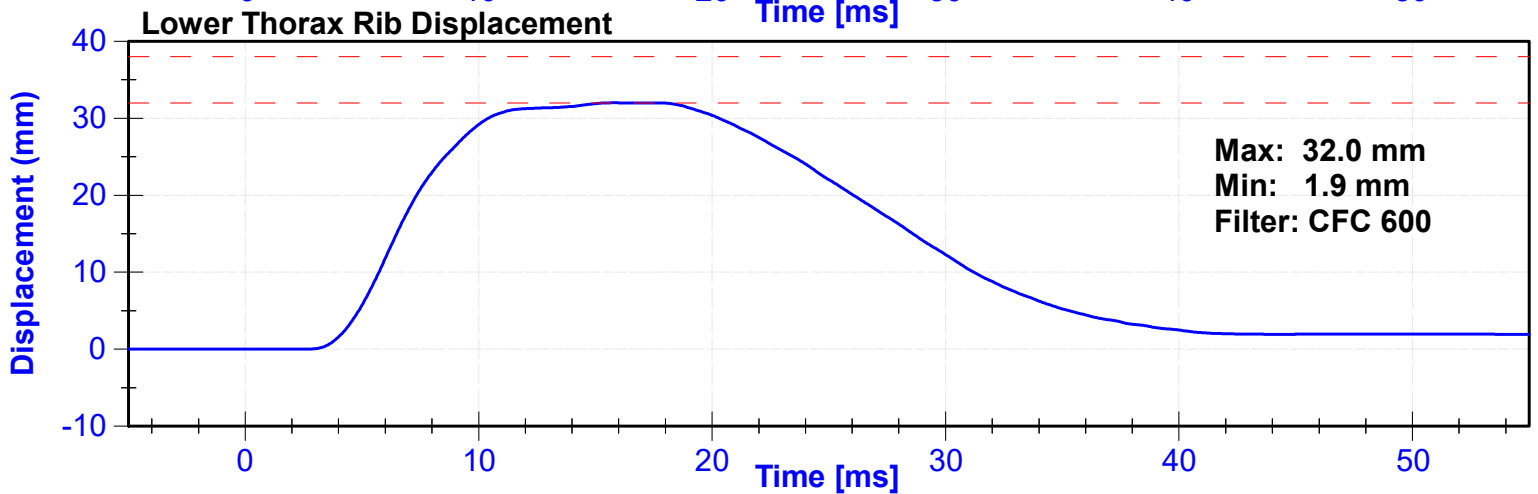
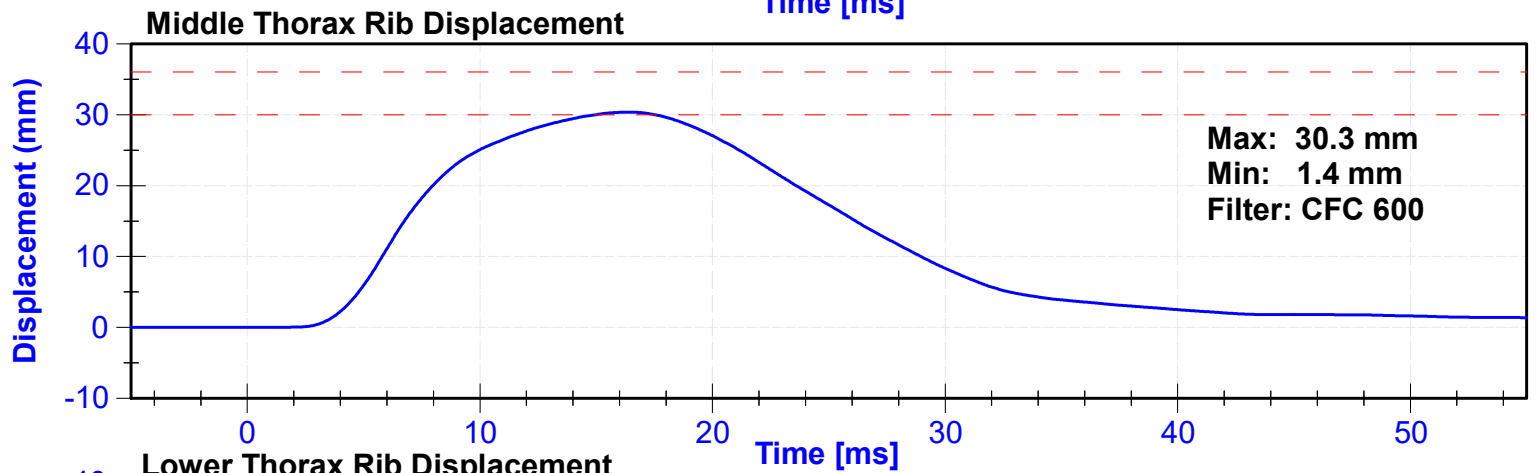
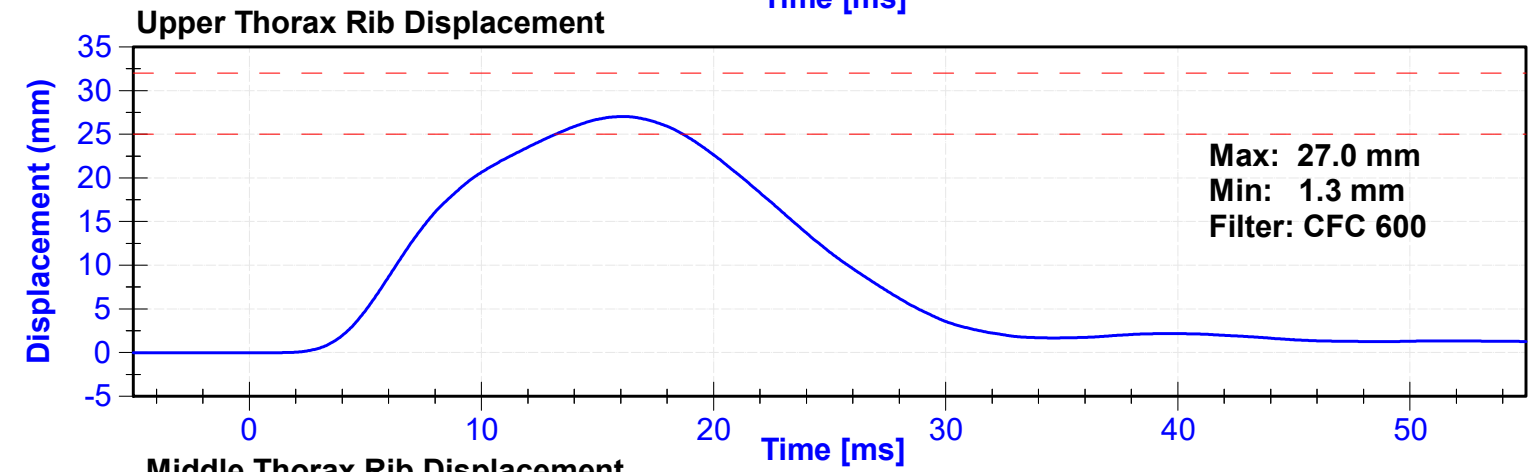
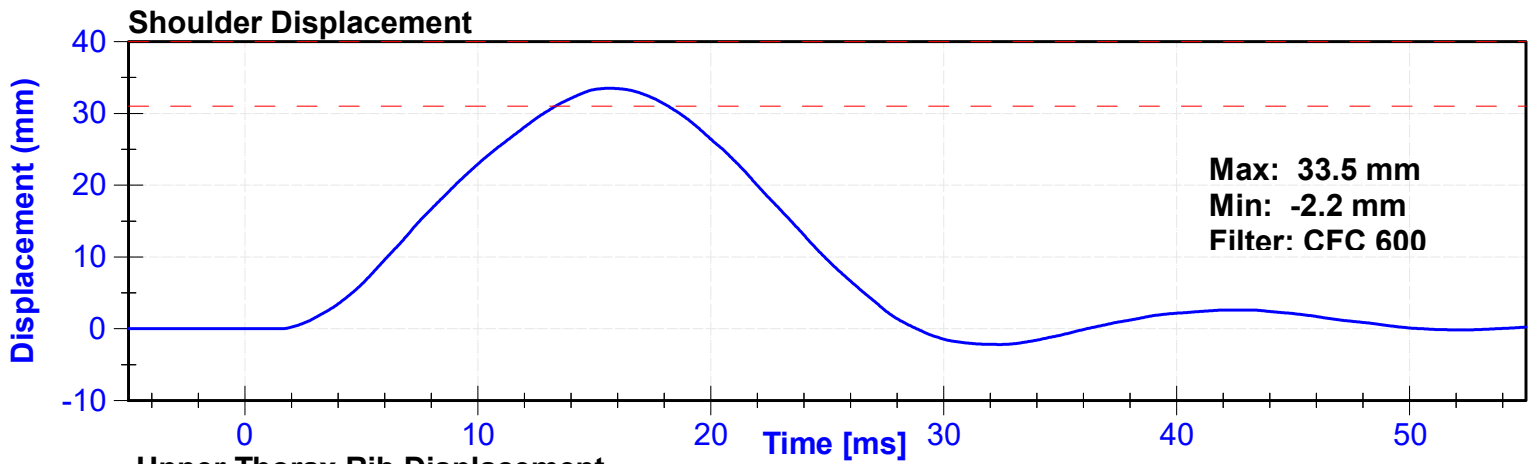
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.1	Pass
Humidity	10	70	%	30	Pass
Velocity	6.6	6.8	m/s	6.69	Pass
Probe Acceleration after 5 ms	30	36	g's	34.7	Pass
Lateral Upper Spine Acceleration	34	43	g's	36.5	Pass
Lateral Lower Spine Acceleration	29	37	g's	34.7	Pass
Shoulder Deflection	31	40	mm	33.5	Pass
Upper Thorax Rib Deflection	25	32	mm	27.0	Pass
Mid Thorax Rib Deflection	30	36	mm	30.3	Pass
Lower Thorax Rib Deflection	32	38	mm	32.0	Pass

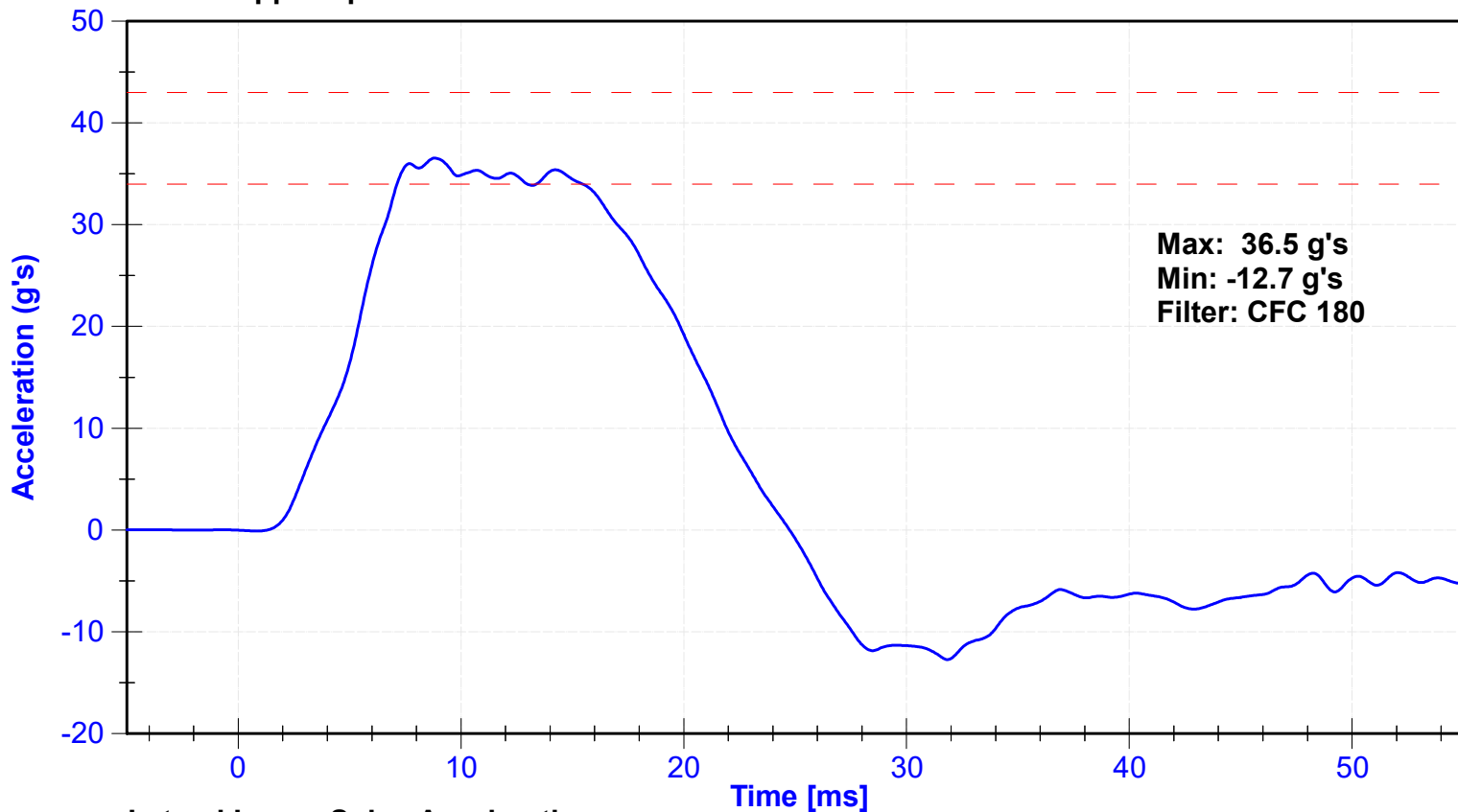
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Upper Spine T1 Y Accelerometer	Endevco	P52018	11/25/2024	5/24/2025
Upper Spine T12 Y Accelerometer	Endevco	P52071	10/17/2024	4/15/2025
Shoulder Potentiometer	Servo	053GFE	10/16/2024	4/16/2025
Upper Thorax Rib Potentiometer	Servo	2316GFE	10/16/2024	4/16/2025
Middle Thorax Rib Potentiometer	Servo	085GFE	10/16/2024	4/16/2025
Lower Thorax Rib Potentiometer	Servo	1156GFE	10/16/2024	4/16/2025

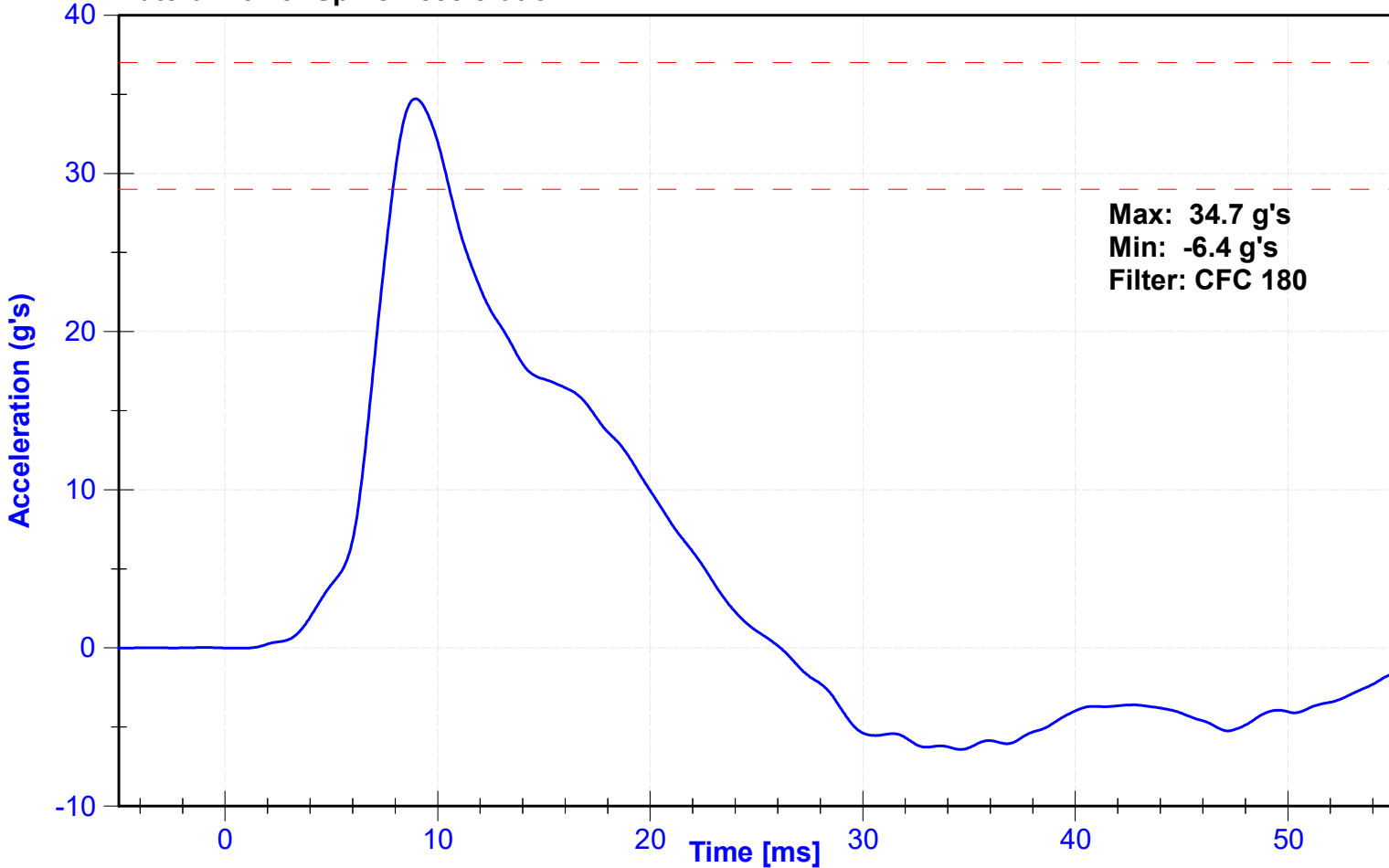




Lateral Upper Spine Acceleration



Lateral Lower Spine Acceleration



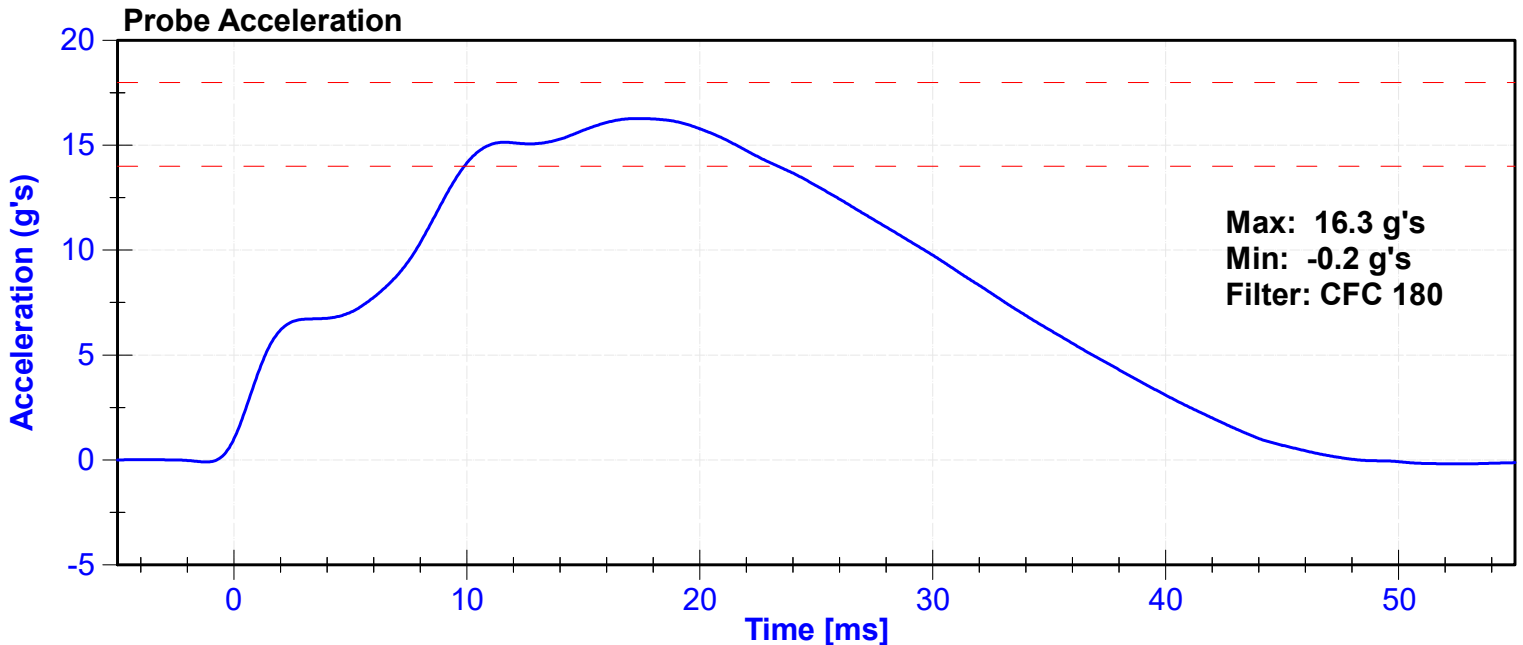
ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

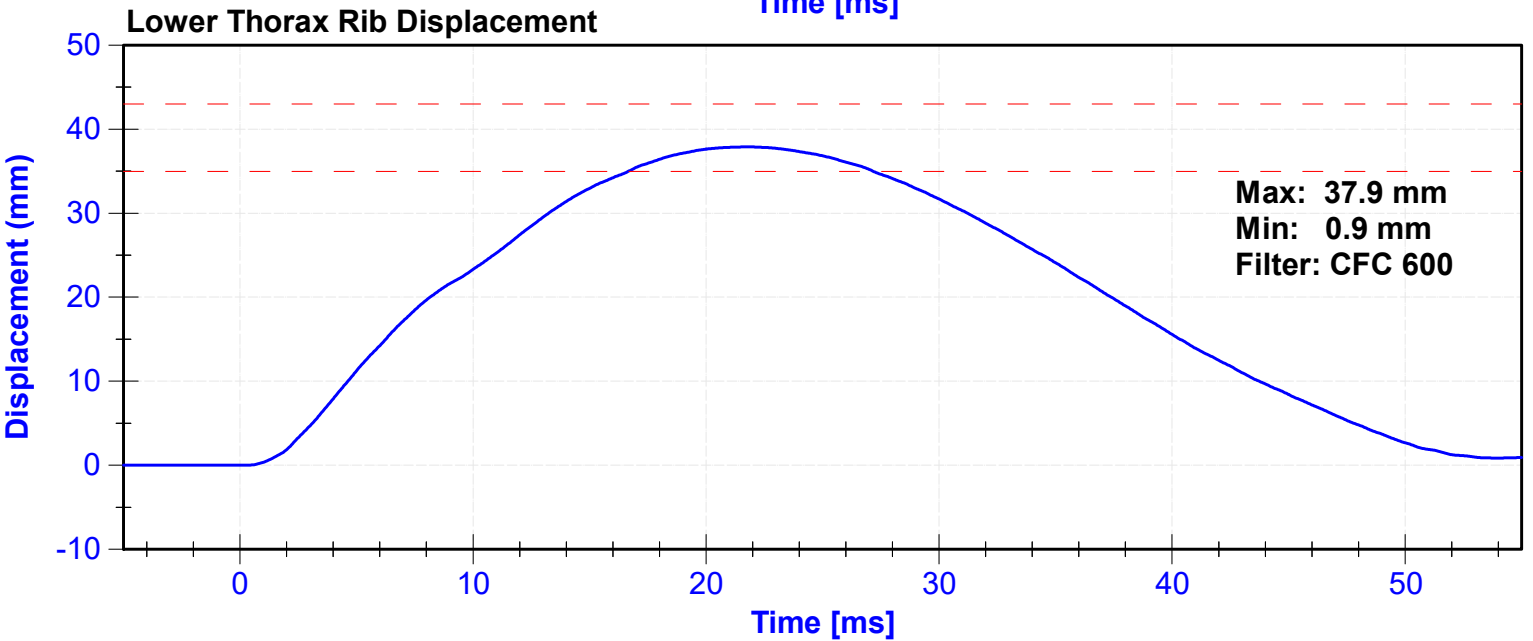
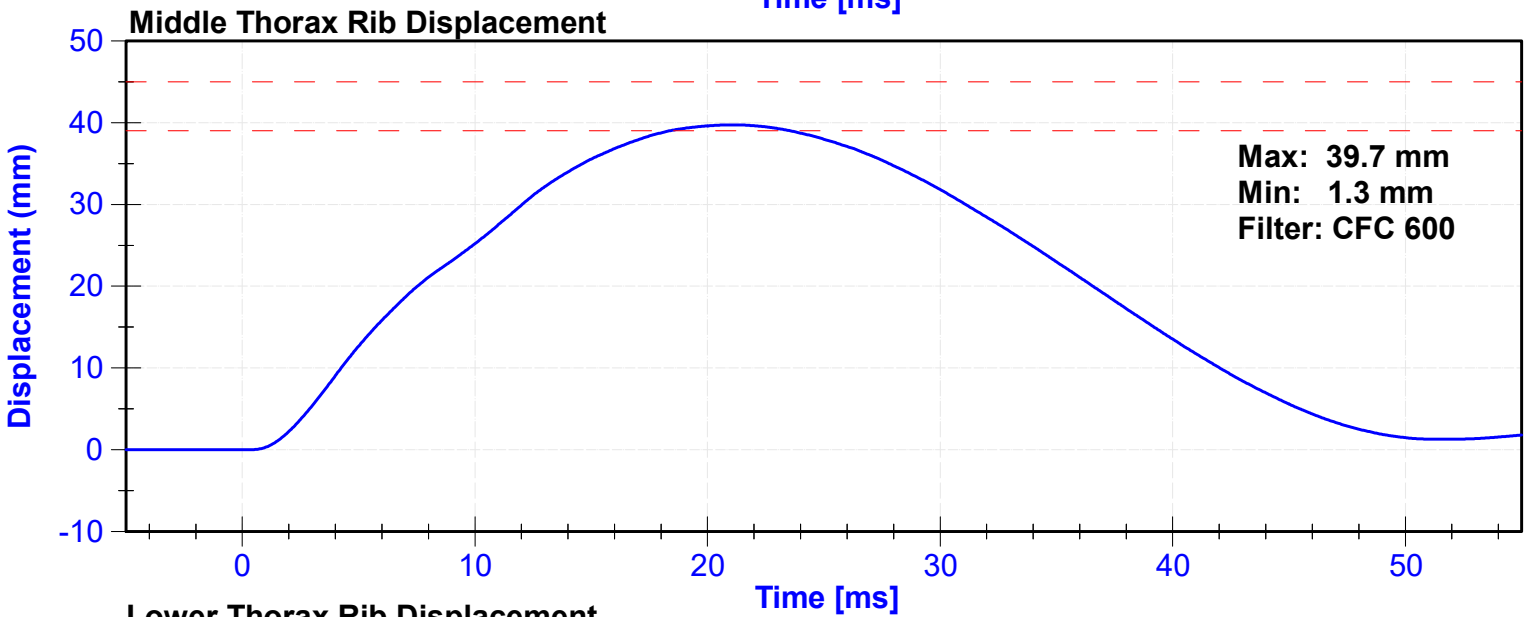
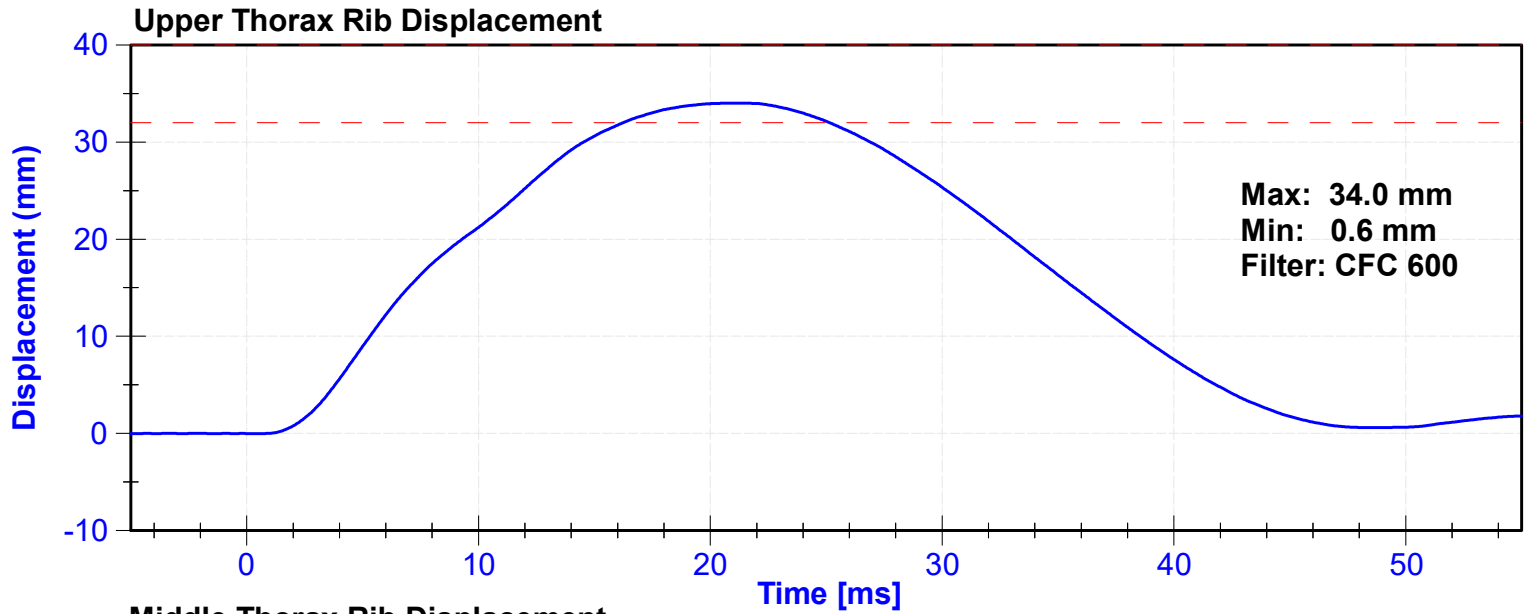
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.1	Pass
Humidity	10	70	%	30	Pass
Velocity	4.2	4.4	m/s	4.27	Pass
Probe Acceleration	14	18	g's	16.3	Pass
Lateral Upper Spine Acceleration	13	17	g's	15.3	Pass
Lateral Lower Spine Acceleration	7	11	g's	9.6	Pass
Upper Thorax Rib Deflection	32	40	mm	34.0	Pass
Middle Thorax Rib Deflection	39	45	mm	39.7	Pass
Lower Thorax Rib Deflection	35	43	mm	37.9	Pass

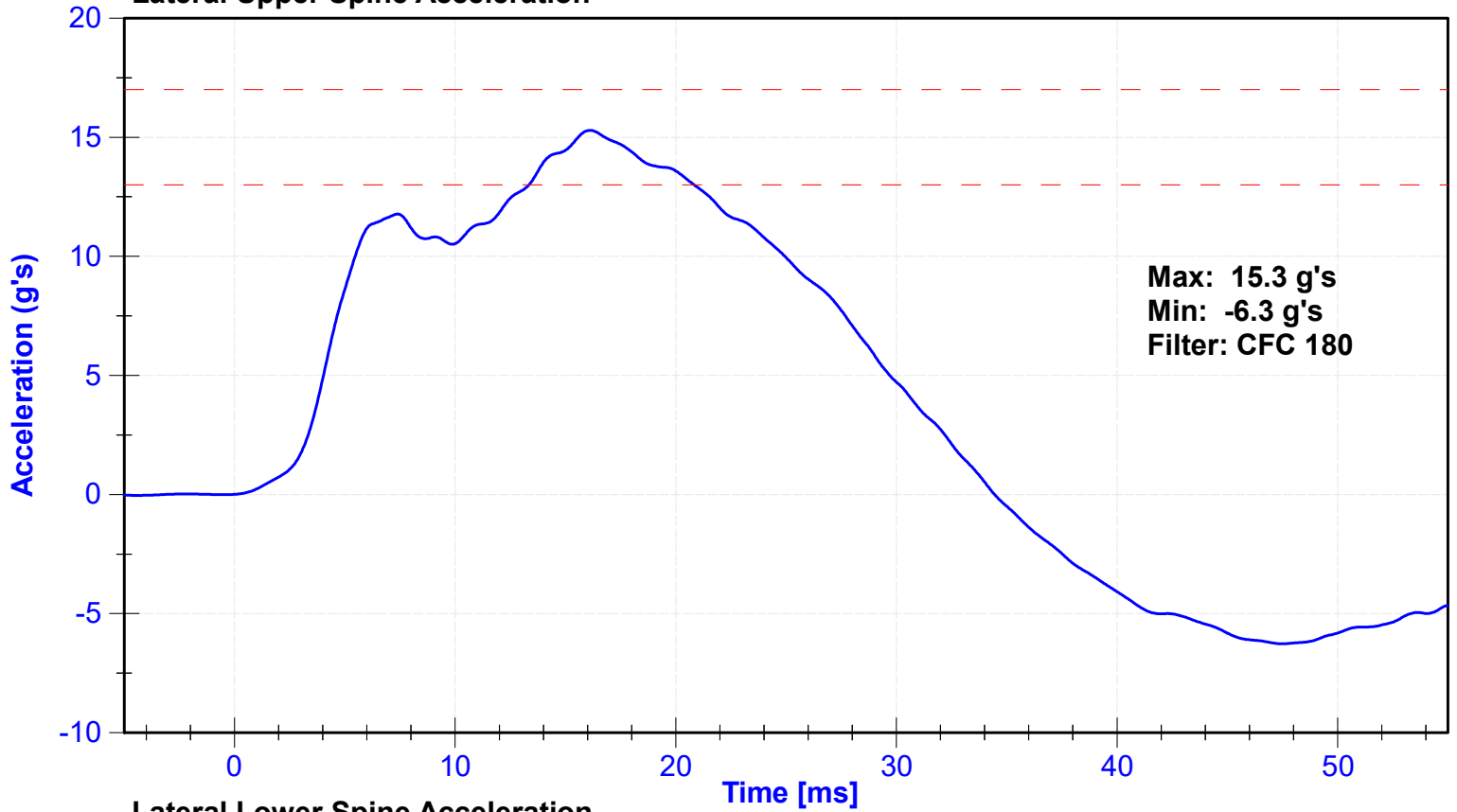
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Upper Spine Y Accelerometer	Endevco	P52018	11/25/2024	5/24/2025
Lower Spine Y Accelerometer	Endevco	P52071	10/17/2024	4/15/2025
Upper Thorax Rib Potentiometer	Servo	2316GFE	10/16/2024	4/16/2025
Middle Thorax Rib Potentiometer	Servo	085GFE	10/16/2024	4/16/2025
Lower Thorax Rib Potentiometer	Servo	1156GFE	10/16/2024	4/16/2025

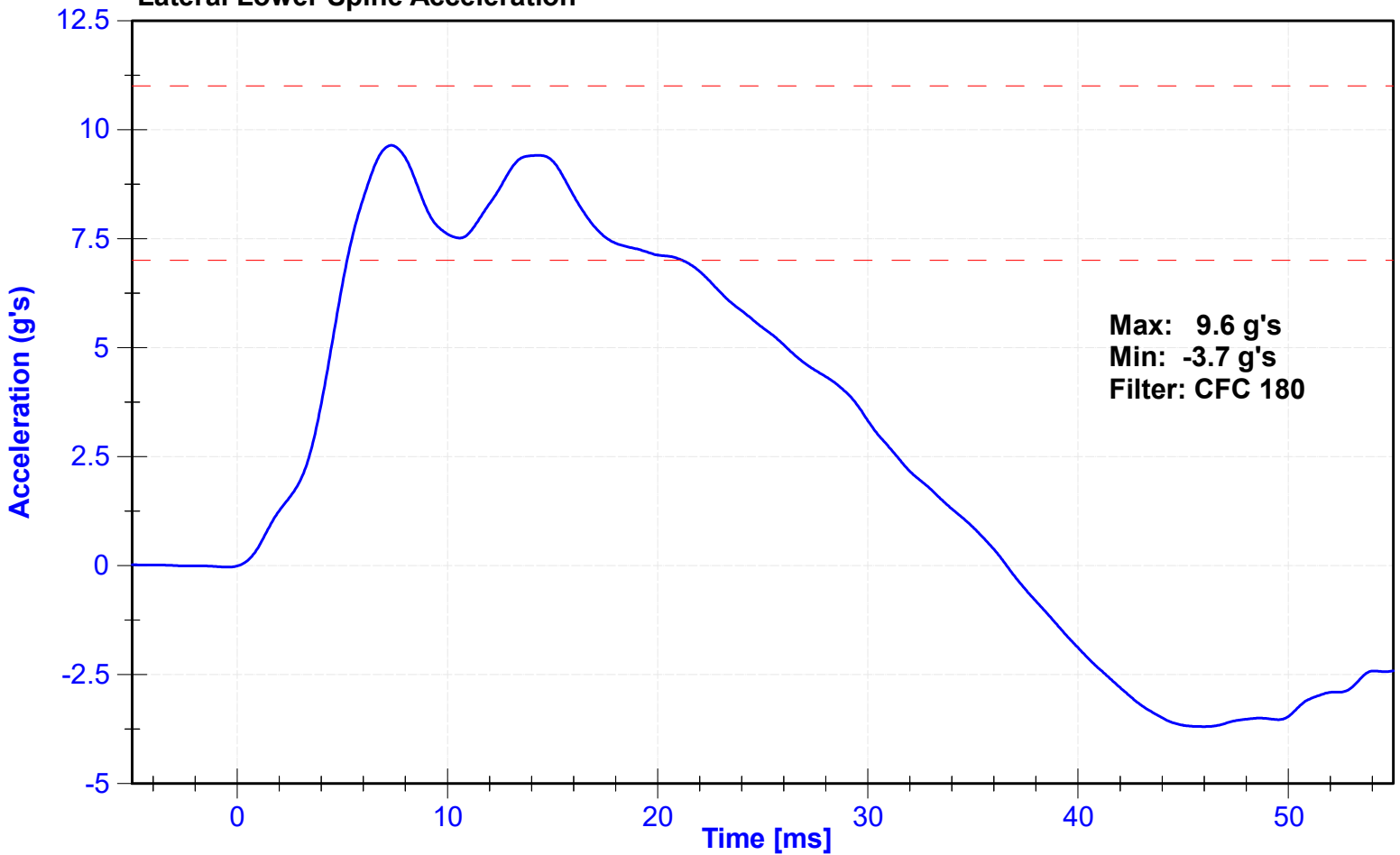




Lateral Upper Spine Acceleration



Lateral Lower Spine Acceleration



ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

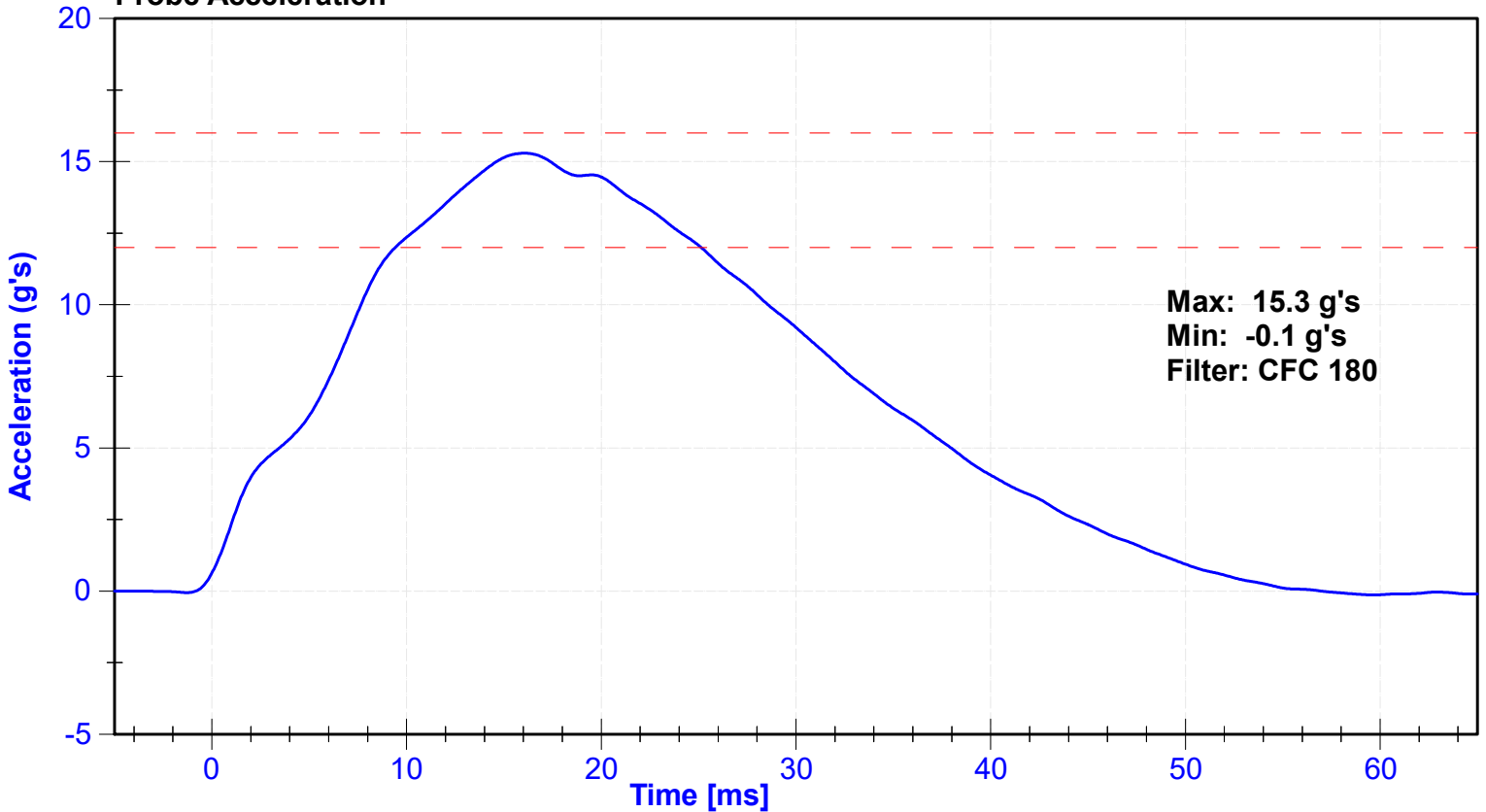
Results

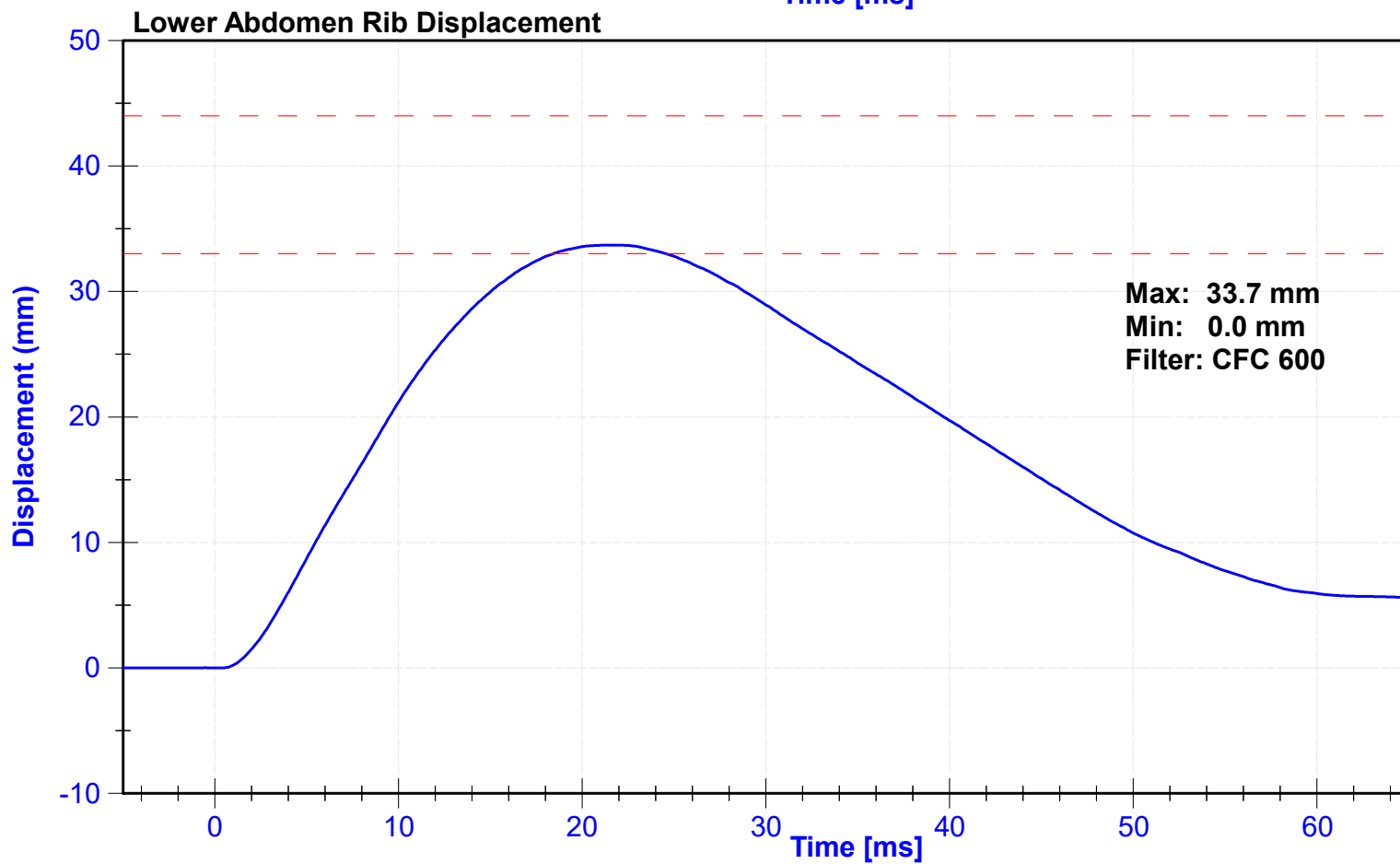
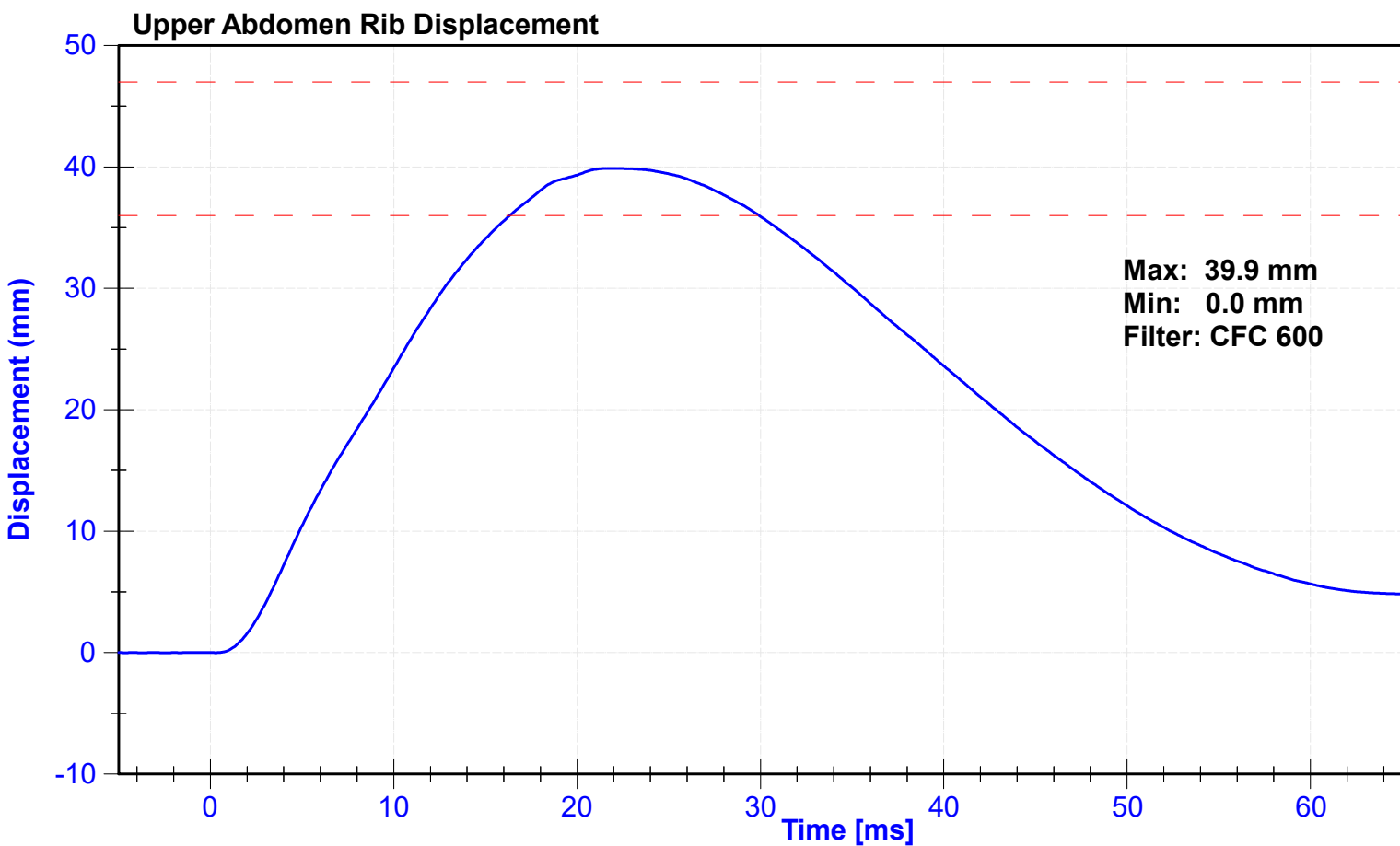
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.1	Pass
Humidity	10	70	%	30	Pass
Velocity	4.2	4.4	m/s	4.28	Pass
Probe Acceleration	12	16	g's	15.3	Pass
Lateral Lower Spine Acceleration	9	14	g's	12.9	Pass
Upper Abdomen Rib Deflection	36	47	mm	39.9	Pass
Lower Abdomen Rib Deflection	33	44	mm	33.7	Pass

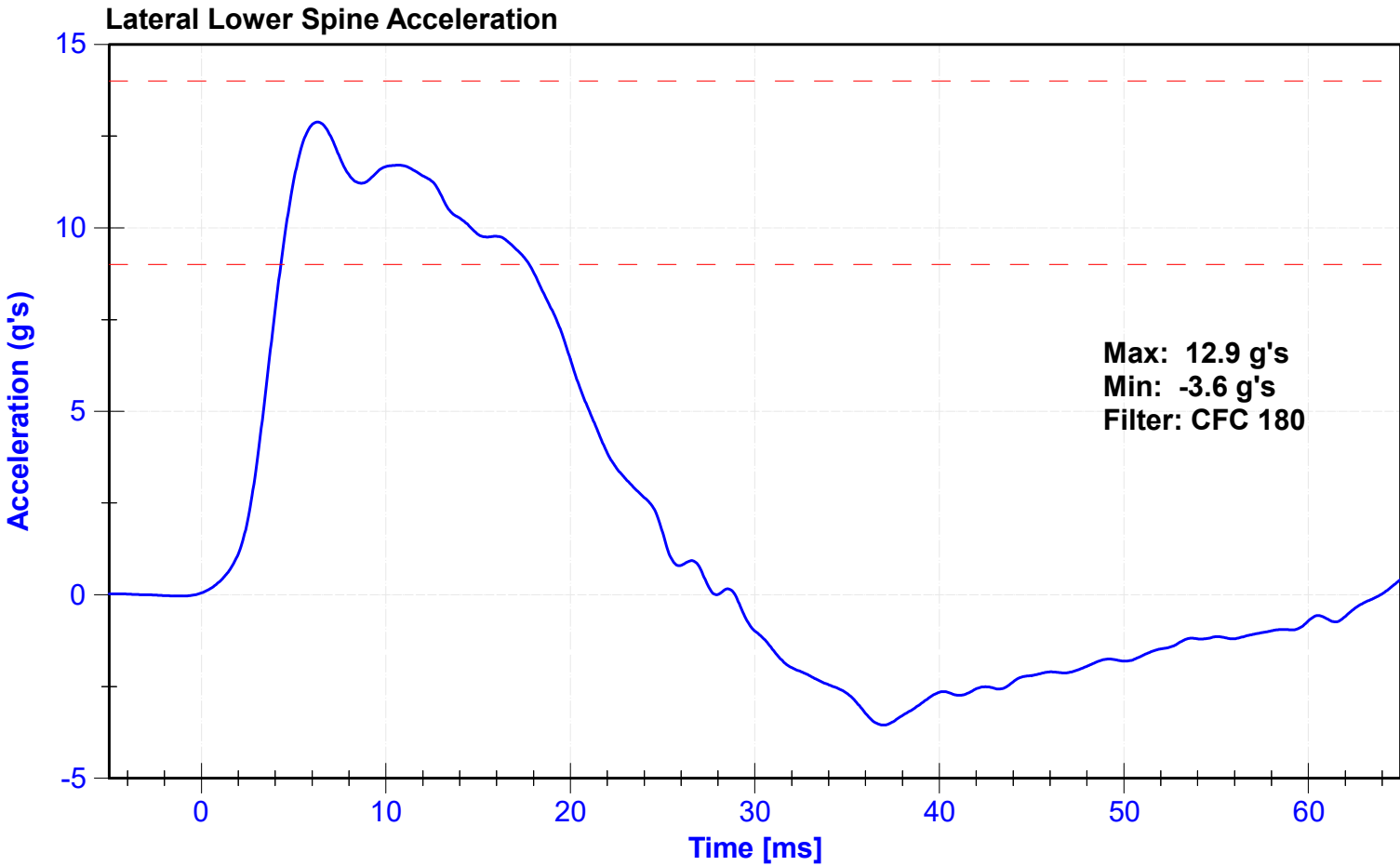
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Probe Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Lower Spine Y Accelerometer	Endevco	P52071	10/17/2024	4/15/2025
Upper Abdomen Rib Potentiometer	Servo	074GFE	10/16/2024	4/16/2025
Lower Abdomen Rib Potentiometer	Servo	075GFE	10/16/2024	4/16/2025

Probe Acceleration







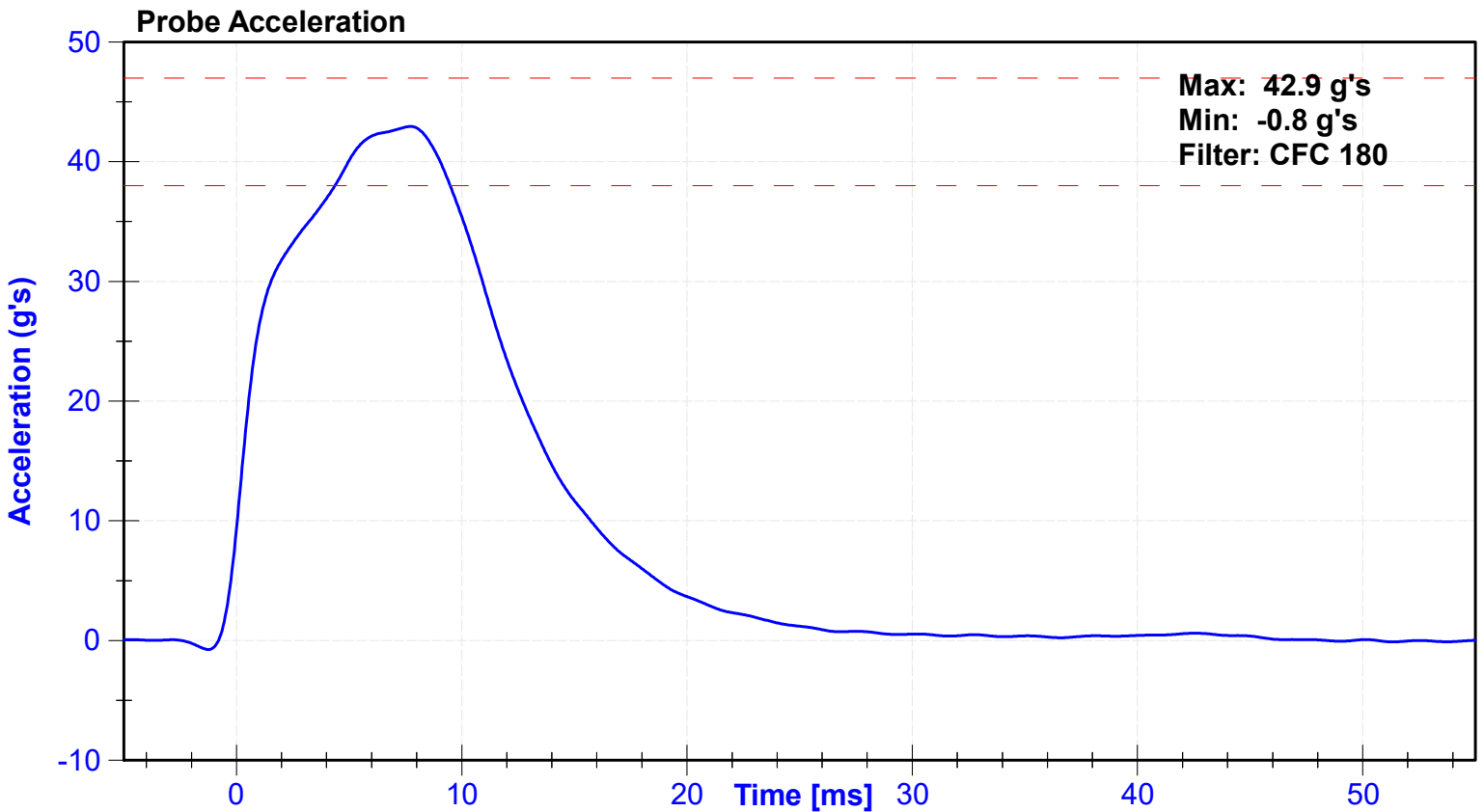
ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

Results

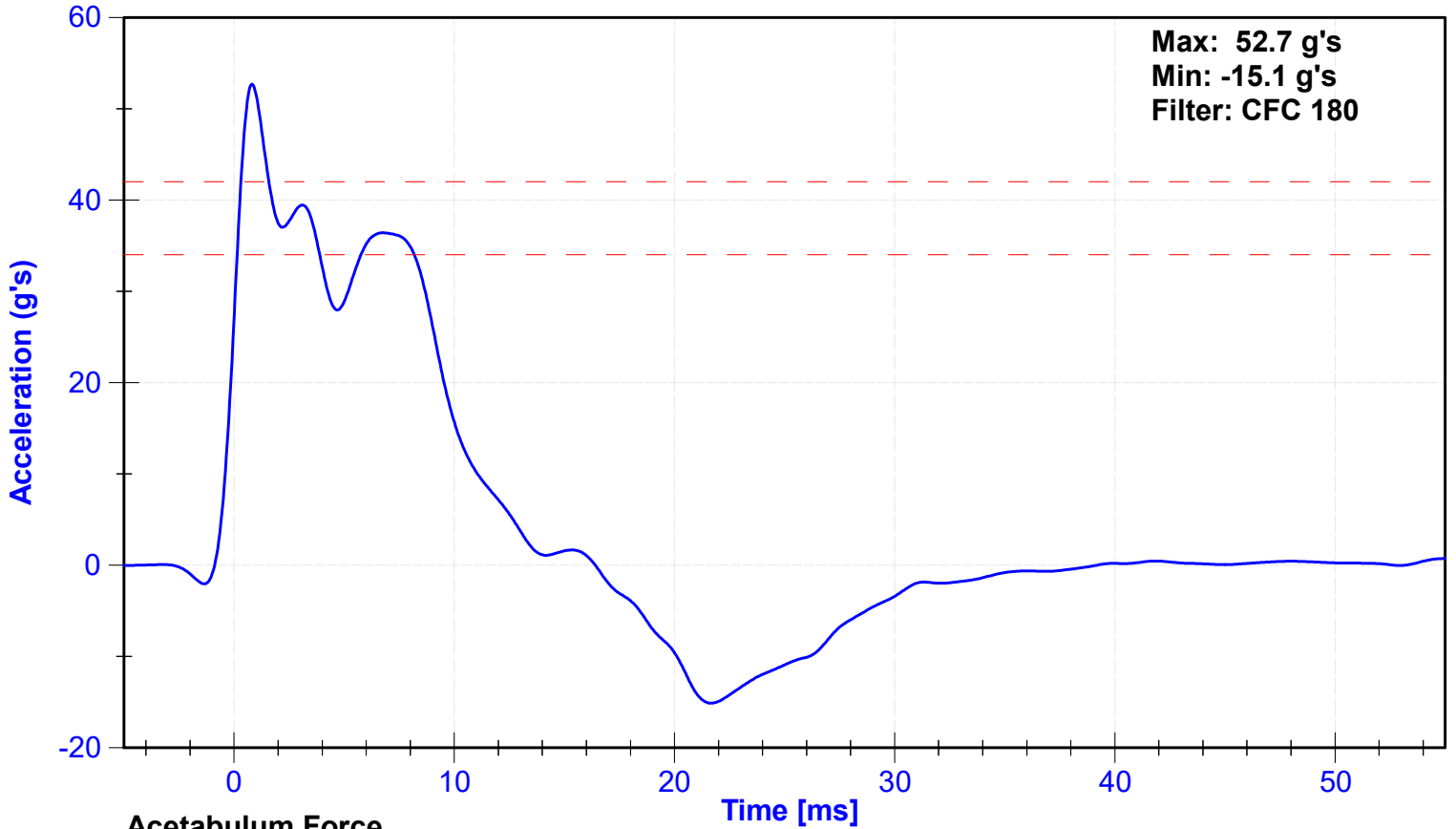
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.1	Pass
Humidity	10	70	%	30	Pass
Velocity	6.6	6.8	m/s	6.72	Pass
Probe Acceleration	38	47	g's	42.9	Pass
Lateral Pelvis Acceleration after 6ms	34	42	g's	36.4	Pass
Acetabulum Force	3600	4300	N	3982.6	Pass

Transducer Calibrations

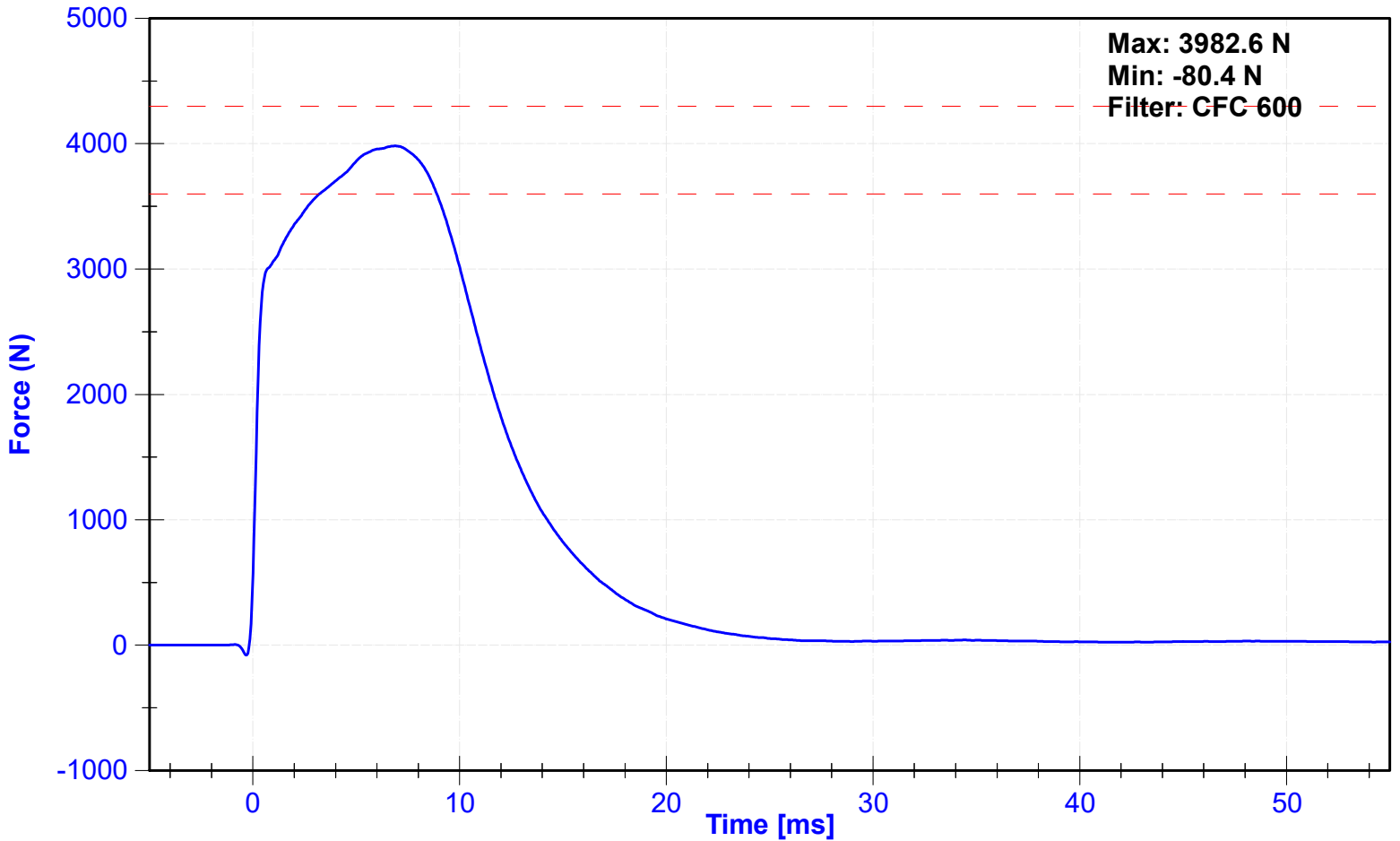
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Pelvis Y Accelerometer	Endevco	P51731	10/17/2024	4/15/2025
Acetabulum Load Cell	Denton	275-FY	10/28/2024	10/28/2025
Certification Plug	SACO			N/A
Crash Test Plug	SACO			N/A



Lateral Pelvis Acceleration



Acetabulum Force





SID-Ills Pelvis Plug Certification Test

Plug S/N 16822

Test Number 23633

Report Number 23690

Test Date 7/25/2022 9:47:06 AM

	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	312	50	600
Force @ 1.5 mm (N)	1,119	850	1,400
Force @ 2.5 mm (N)	1,411	1,306	1,618
Force @ 3.0 mm (N)	1,467	1,361	1,673

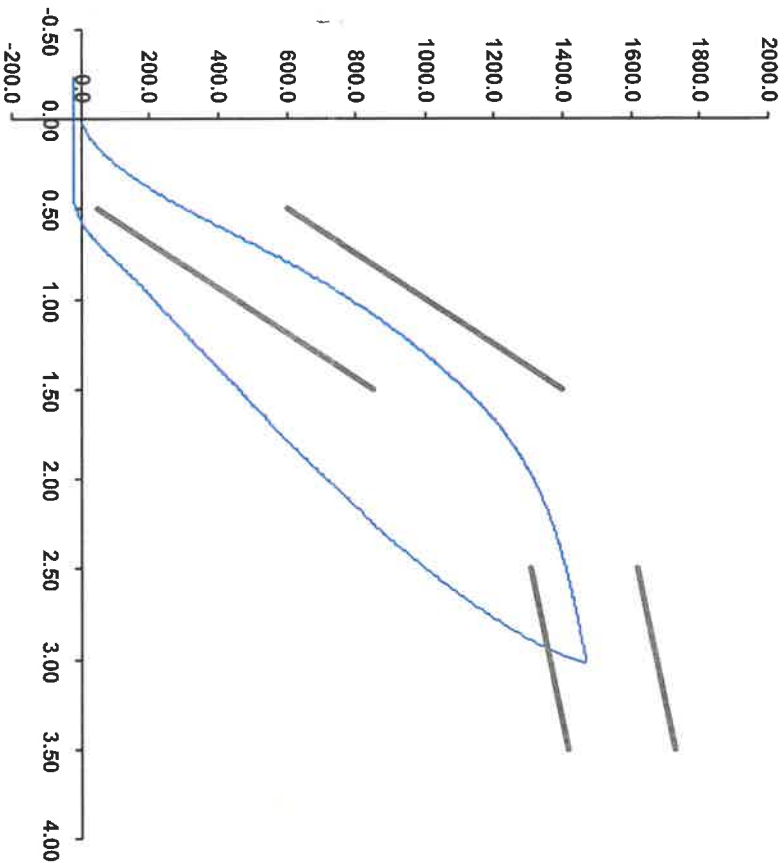
Testing Machine STM-20 5965542
Load Cell S/N (F1360947), Units (LBS) 1000

Crosshead Speed (mm / min) or Rate 12.7
Extension or Position Measured by XHD_100 (XHD100)

Notes:
Non Impact

Zachary Nykant
Dummy 300
4-4-2025

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107
SACO Research

25-Jul-22

By: [Signature] Date: 7/25/22

SACO Research 41735 Elm St, #401 Murrieta, CA 92562 Tel 310-694-2082 FAX



SID-IIs Pelvis Plug Certification Test

Plug S/N 16821

Test Number 23632

Report Number 23689

Test Date 7/25/2022 9:43:34 AM

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

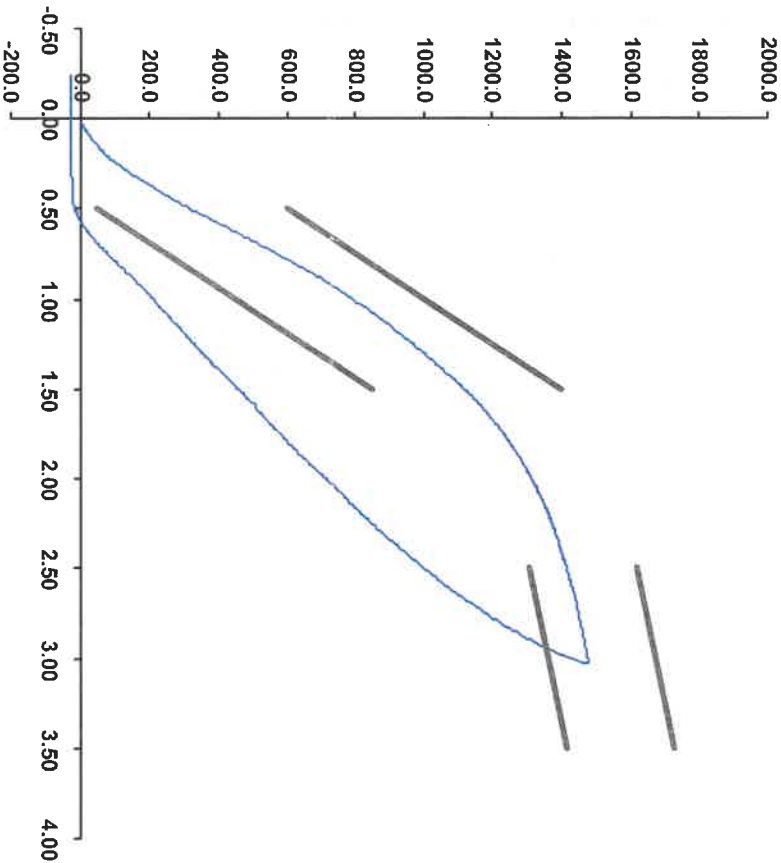
Testing Machine STM-20 5965542
Load Cell S/N (F1360947), Units (LBS) 1000

Crosshead Speed (mm / min) or Rate 12.7
Extension or Position Measured by XHD_100 (XHD100)

Notes:
Impact

Zeekery Nyhart
Dummy 300
4-4-2025

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107 25-Jul-22
SACO Research

By: *DC* Date: *7/25/22*

SACO Research 41735 Elm St #401 Murrieta, CA 92562 Tel 310-694-2082 FAX



SID-11s Pelvis Plug Certification Test

Plug S/N 16820

Test Number 23631

Report Number 23688

Test Date 7/25/2022 9:40:49 AM

	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	290	50	600
Force @ 1.5 mm (N)	1,098	850	1,400
Force @ 2.5 mm (N)	1,410	1,306	1,618
Force @ 3.0 mm (N)	1,468	1,361	1,673

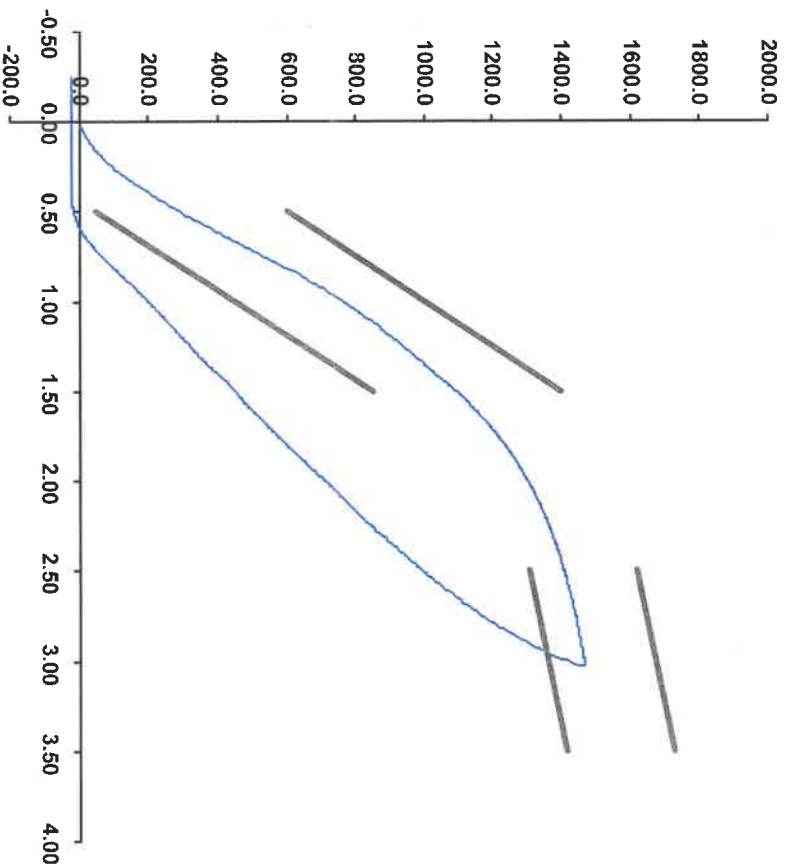
Testing Machine STM-20 5965542
 Load Cell S/N (F1360947), Units (LBS) 1000

Crosshead Speed (mm / min) or Rate 12.7
 Extension or Position Measured by XHD_100 (XHD100)

Notes: *Cert 300*

Will Break 4-4-25

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107
 SACO Research

25-JUL-22

By: *[Signature]* Date: *7/25/22*

SACO Research 41735 Elm St, #401 Murrieta, CA 92562 Tel 310-694-2082 FAX

ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	300	Laboratory Supervisor	J. Kinderman

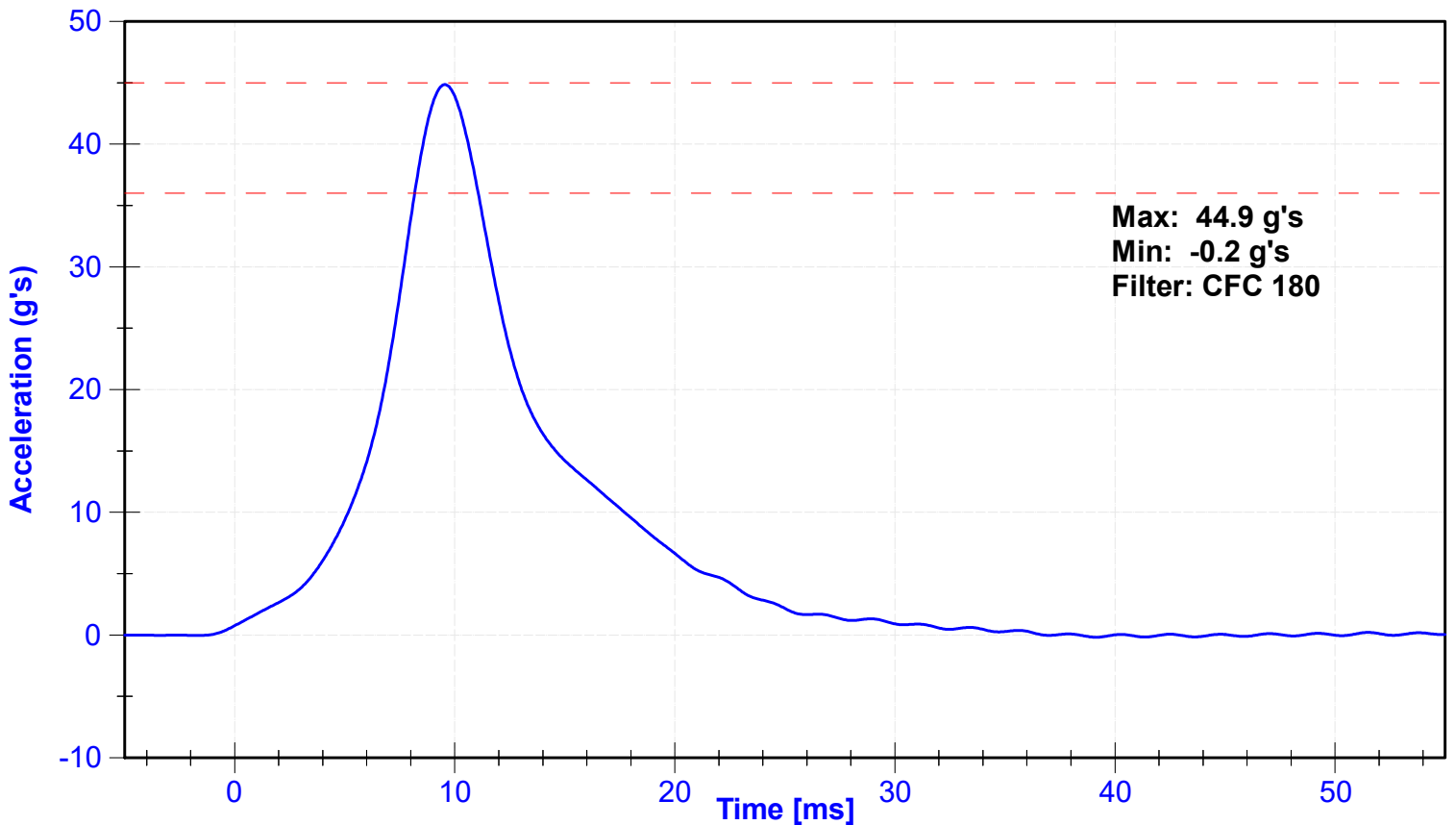
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.1	Pass
Humidity	10	70	%	37	Pass
Velocity	4.2	4.4	m/s	4.22	Pass
Probe Acceleration	36	45	g's	44.9	Pass
Lateral Pelvis Acceleration	28	39	g's	38.1	Pass
Iliac Force	4100	5100	N	5096.5	Pass

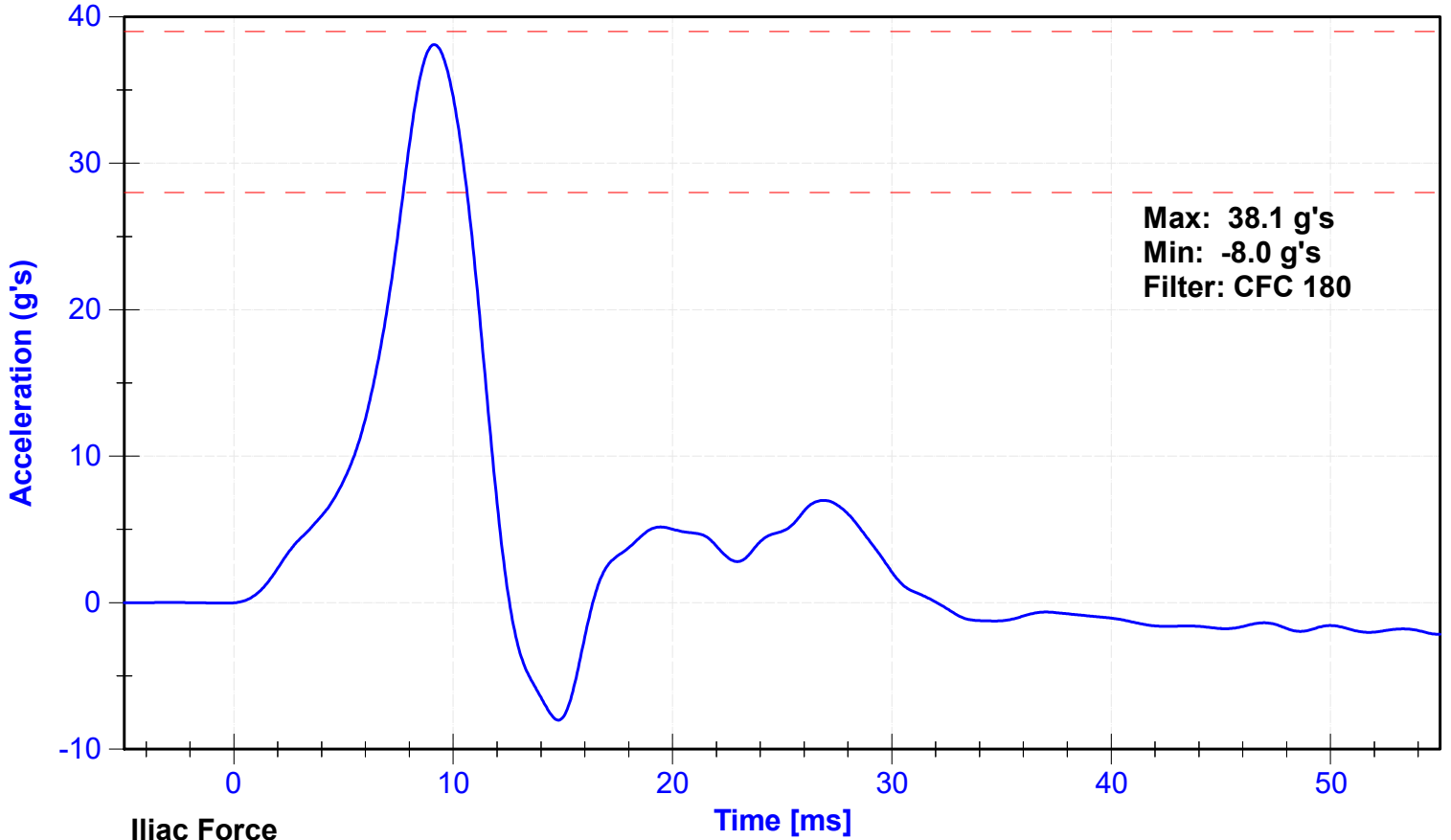
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	T25962	2/15/2025	8/14/2025
Pelvis Y Accelerometer	Endevco	P51731	10/17/2024	4/15/2025
Iliac Load Cell	Denton	279-FY	10/28/2024	10/28/2025

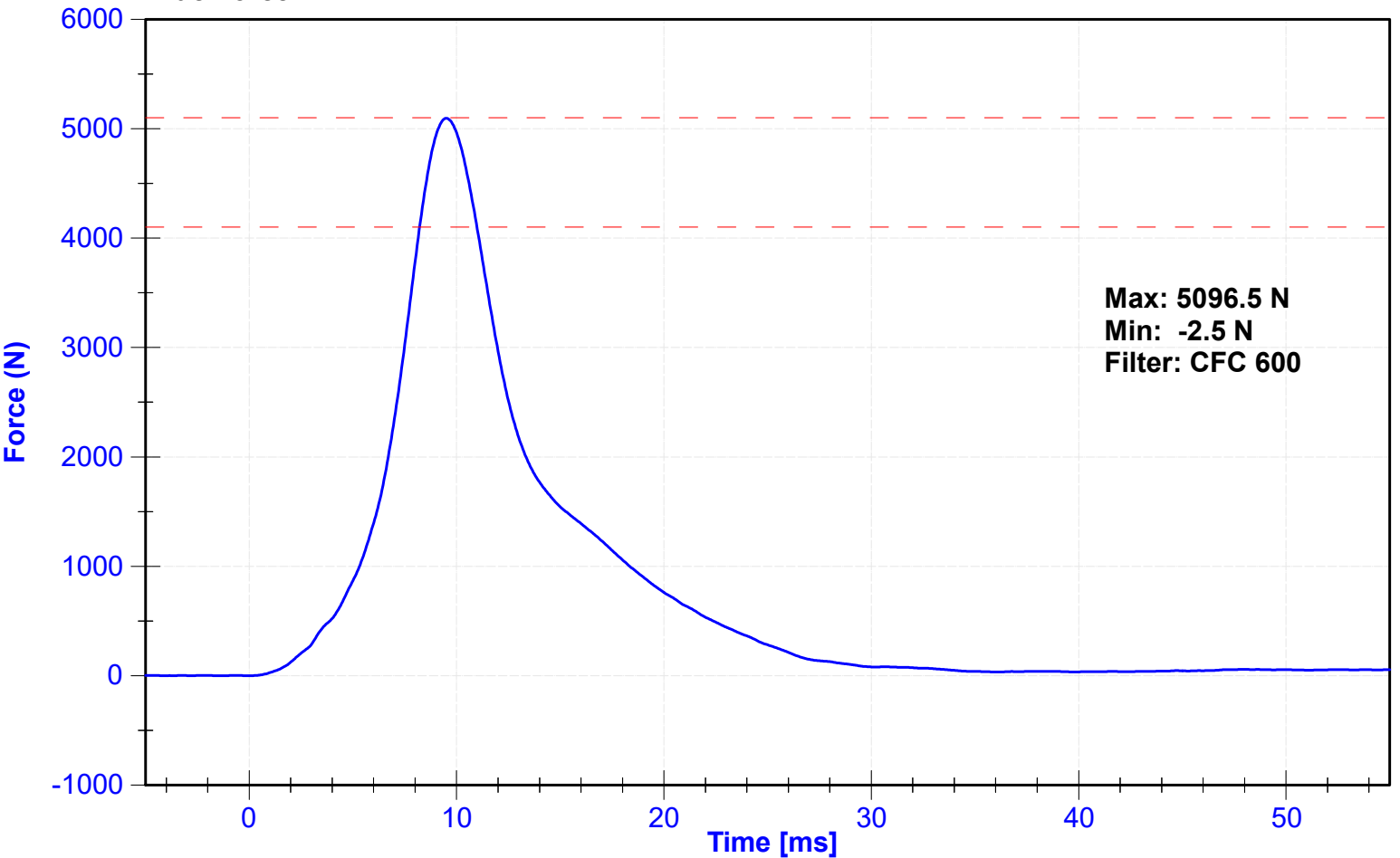
Probe Acceleration



Lateral Pelvis Acceleration



Iliac Force



APPENDIX D

TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA

Table 1 – Dummy Instrumentation (SID-IIs)

			SID-IIs S/N: 300			
			Serial Number	Manufacturer	Calibration Date	
Head Accelerometers		X	P59018	Endevco	10/17/2024	
		Y	P79189	Endevco	10/17/2024	
		Z	P79587	Endevco	10/17/2024	
Head Accelerometers - Redundant		X	P49182	Endevco	11/25/2024	
		Y	P58986	Endevco	10/17/2024	
		Z	P52025	Endevco	10/17/2024	
Displacement Potentiometer	Shoulder		Y			
	Thoracic Rib	Upper	Y	2316GFE	Servo	10/16/2024
		Middle	Y	085GFE	Servo	10/16/2024
		Lower	Y	1156GFE	Servo	10/16/2024
	Abdominal Rib	Upper	Y	074GFE	Servo	10/16/2024
		Lower	Y	075GFE	Servo	10/16/2024
Lower Spine Accelerometers (T12)		X	P64003	Endevco	10/17/2024	
		Y	P52071	Endevco	10/17/2024	
		Z	P17283	Endevco	10/17/2024	
Acetabulum Load Cell		Y	275-FY	Denton	10/28/2024	
Lilac Wing Load Cell		Y	279-FY	Denton	10/28/2024	
Pelvis Plug (Struck Side)			16818	SACO	07/25/2022	
Pelvis Plug (Non-Struck Side)			16828	SACO	07/25/2022	

Table 2 – Vehicle Instrumentation

Vehicle Instrumentation		Serial Number	Manufacturer	Calibration Date
Vehicle Center of Gravity	X	G24624	Endevco	11/21/2024
Vehicle Center of Gravity	Y	A284346	Measurement Specialties	11/04/2024
Vehicle Center of Gravity	Z	A398329	Measurement Specialties	11/20/2024
Left Floor Sill	Y	G25579	Endevco	02/21/2025
A-Pillar Sill	Y	A274229	Measurement Specialties	12/18/2024
A-Pillar Low	Y	A398662	Measurement Specialties	01/13/2025
A-Pillar Mid	Y	A405543	Measurement Specialties	02/18/2025
B-Pillar Sill	Y	A405573	Measurement Specialties	02/17/2025
B-Pillar Low	Y	A290902	Measurement Specialties	01/07/2025
B-Pillar Mid	Y	A335490	Measurement Specialties	02/14/2025
Driver Seat	Y	A350920	Measurement Specialties	10/31/2024
Engine Top	X	A255975	Measurement Specialties	10/10/2024
Engine Top	Y	A280824	Measurement Specialties	10/14/2024
Firewall	Y	A374362	Measurement Specialties	11/01/2024
Right Roof	Y	A431209	Measurement Specialties	11/20/2024
Right Floor Sill	Y	A352341	Measurement Specialties	02/17/2025
Rear Floorpan	X	G25279	Endevco	11/20/2024
Rear Floorpan	Y	G25576	Endevco	11/20/2024

Table 3 – Pole Instrumentation

Pole Instrumentation	Serial Number	Manufacturer	Calibration Date
Load Cell 1	1220AF-1277329-F0	Interface	06/21/2024
Load Cell 2	1220AF-BLACKLC	Interface	06/21/2024
Load Cell 3	1220AF-1117025-F0	Interface	06/21/2024
Load Cell 4	1220AF-1130989-F0	Interface	06/21/2024
Load Cell 5	1220AF-1281288-F0	Interface	06/21/2024
Load Cell 6	1220AF-1281285-F0	Interface	06/21/2024
Load Cell 7	1220AF-1117035-F0	Interface	06/21/2024
Load Cell 8	1220AF-1117011-F0	Interface	06/21/2024