

REPORT NUMBER: 214P-CAL-25-010

**SAFETY COMPLIANCE TESTING FOR FMVSS 214
DYNAMIC SIDE IMPACT PROTECTION
RIGID POLE TEST**

**Volkswagen de Mexico S.A. de C.V. Mexico
2025 Volkswagen Taos
5 Door SUV**

NHTSA No: C20255800

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



August 12, 2025

FINAL REPORT

**PREPARED FOR:
U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVE. S.E.
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 693JJ923D000043.

This publication is distributed by the U.S. Department of Transportation, National Highway Traffic Safety Administration, in the interest of information exchange. The opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof.

If trade or manufacturers' names or products are mentioned it is only because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

Prepared by: Alexander Rudniski Date: August 12, 2025
Alexander Rudniski, Test Engineer

Approved by: Vanessa Hansen Date: August 12, 2025
Vanessa Hansen, Operations Manager

FINAL REPORT ACCEPTANCE BY OVSC:

EDWARD E CHAN Digitally signed by EDWARD E CHAN
Date: 2025.08.14 07:34:35 -04'00'

Accepted by _____

Date: _____

TECHNICAL REPORT DOCUMENTATION PAGE

1. Report No. 214P-CAL-25-010		2. Government Accession No.		3. Recipient's Catalog No.																								
4. Title and Subtitle Final Report of 214P Compliance Test Side Impact Protection Testing of a 2025 Volkswagen Taos 5 Door SUV NHTSA No.: C20255800				5. Report Date August 12, 2025																								
				6. Performing Organization Code CAL																								
7. Author(s) Alexander Rudniski, Test Engineer Vanessa Hansen, Operations Manager				8. Performing Organization Report No. CAL-DOT-2025-010																								
9. Performing Organization Name and Address Calspan Corporation Transportation Test Operations P.O. Box 400 Buffalo, New York 14225				10. Work Unit No.																								
				11. Contract or Grant No. 693JJ923D000043																								
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Office of Vehicle Safety Compliance 1200 New Jersey Ave., SE Room W43-304 Washington, D.C. 20590				13. Type of Report and Period Covered: Final Test Report July 31, 2025 - August 12, 2025																								
				14. Sponsoring Agency Code NEF-240																								
15. Supplementary Notes																												
16. Abstract A 31.00 km/h (19.3 mph), 75° oblique compliance test was conducted on the subject 2025 Volkswagen Taos 5 Door SUV in accordance with the specifications of the Office of Vehicle Safety Compliance TP-214P-01 for the determination of FMVSS No.214 Side Impact Protection compliance. This test was conducted at Calspan Corporation's Transportation Test Operations facility in Buffalo, New York on July 31, 2025. The impact velocity of the vehicle was 30.99 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 302 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 (ES-2re)</th> </tr> <tr> <th>Units</th> <th>IARV</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC36)</td> <td></td> <td>1000</td> <td>411.756</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>44</td> <td>24.397</td> </tr> <tr> <td>Total Abdominal Force</td> <td>N</td> <td>2500</td> <td>946.787</td> </tr> <tr> <td>Pubic Symphysis Force</td> <td>N</td> <td>6000</td> <td>2408.916</td> </tr> </tbody> </table> The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.						Measurement Description	Driver ATD (ES-2re)			Units	IARV	Result	Head Injury Criteria (HIC36)		1000	411.756	Maximum Thoracic Rib Deflection	mm	44	24.397	Total Abdominal Force	N	2500	946.787	Pubic Symphysis Force	N	6000	2408.916
Measurement Description	Driver ATD (ES-2re)																											
	Units	IARV	Result																									
Head Injury Criteria (HIC36)		1000	411.756																									
Maximum Thoracic Rib Deflection	mm	44	24.397																									
Total Abdominal Force	N	2500	946.787																									
Pubic Symphysis Force	N	6000	2408.916																									
17. Key Words Compliance Testing Side Impact Protection Pole Test ES-2re SID-IIs				18. Distribution Statement Copies of this report are available from: National Highway Traffic Safety Administration Technical Information Services (TIS) Room E12-100 East Bldg. 1200 New Jersey Ave. Washington, D.C. 20590 Telephone No. (202) 366-2588																								
19. Security Class. (of this report) UNCLASSIFIED		20. Security Class. (of this page) UNCLASSIFIED		21. No. of Pages 109																								
22. Price																												

Form DOT F1700.7 (8-72)

TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	Test Purpose and Summary of the Test	1-1
2	Occupant and Vehicle Information	2-1
 <u>Data Sheet</u>		 <u>Page</u>
1	Test Vehicle Information and Options	2-2
2	Vehicle Tire Information	2-3
3	General Test and Vehicle Parameter Data	2-4
4	Seat and Seat Belt Adjustment Data	2-5
5	Fuel Systems and Steering Wheel Position Data	2-6
6	Dummy Longitudinal Clearance Dimensions	2-7
7	Dummy Lateral Clearance Dimensions	2-8
8	Location of Cameras	2-9
9	Test Vehicle Accelerometer Location	2-10
10	Test Vehicle Accelerometer Summary	2-11
11	Dummy Injury Response Data	2-12
12	Post Test Observations	2-13
13	Vehicle Pre-test and Post-test Measurements	2-15
14	Exterior Crush Measurements	2-16
15	Vehicle Exterior Crush Profiles	2-17
16	Temperature and Humidity Trace	2-19
 <u>Appendix</u>		 <u>Page</u>
I	Photographs	I-1
II	Dummy Response Data	II-1
III	Vehicle Accelerometer Response Data Plots	III-1
IV	Dummy Performance Calibration Test Data	IV-1
V	Test Equipment and Instrumentation Calibration	V-1

SECTION 1

PURPOSE AND SUMMARY OF TEST

PURPOSE

This side impact test was conducted as part of the FY 2025 FMVSS 214 Side Impact Protection Compliance Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. 693JJ923D000043. The purpose of this test was to evaluate side impact protection in a 2025 Volkswagen Taos 5 Door SUV. The side impact test was conducted in accordance with the Office of Vehicle Safety Compliance's Laboratory Test Procedure, TP-214P-01 dated September 2012.

SUMMARY

A rigid pole side impact test was conducted on a 2025 Volkswagen Taos 5 Door SUV. The subject vehicle was towed into the rigid pole at an angle of 75° and a velocity of 30.99 km/h. The test was conducted by Calspan Corporation's Transportation Test Operations facility in Buffalo, New York on July 31, 2025. Pre-test and post-test photographs of the test vehicle and side impact dummy (ES2re) are included in Appendix I of this report.

One Part 572U (ES-2re) dummy was placed in the driver designated seating position according to instructions specified in the TP-214P-01 Test Procedure, dated September 2012. The side impact event was documented by nine High Speed Cameras and one real time camera.

The ES2re male dummy was instrumented accordingly:

- Primary and redundant head CG tri-axial accelerometers
- Chest upper rib, middle rib, and lower rib y-axis displacement potentiometers
- Abdomen forward, middle, and rear y-axis load cells
- Lower spine (T12) tri-axial accelerometers
- Pubic symphysis y-axis load cell

Appendix II contains the dummy response data. Dummy configuration and performance verification data can be found in Appendix IV of this report. Appendix V 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 ES2re dummy were recorded as follows:

INJURY READINGS

Measurement Description	Driver ATD (ES2re)		
	Units	IARV	Result
Head Injury Criteria (HIC36)		1000	411.756
Upper Rib Deflection	mm	44	24.397
Mid Rib Deflection	mm	44	15.032
Lower Rib Deflection	mm	44	16.380
Abdominal Load (front)	N		241.662
Abdominal Load (mid)	N		290.943
Abdominal Load (rear)	N		433.967
Total Abdominal Force	N	2500	946.787
Pubic Symphysis Force	N	6000	2408.916

SECTION 2

OCCUPANT AND VEHICLE INFORMATION

This section contains information reporting for the following Data Sheets:

<u>Data Sheet</u>	<u>Page</u>
1 Test Vehicle Information and Options	2-2
2 Vehicle Tire Information	2-3
3 General Test and Vehicle Parameter Data	2-4
4 Seat and Seat Belt Adjustment Data	2-5
5 Fuel Systems and Steering Wheel Position Data	2-6
6 Dummy Longitudinal Clearance Dimensions	2-7
7 Dummy Lateral Clearance Dimensions	2-8
8 Location of Cameras	2-9
9 Test Vehicle Accelerometer Location	2-10
10 Test Vehicle Accelerometer Summary	2-11
11 Dummy Injury Response Data	2-12
12 Post Test Observations	2-13
13 Vehicle Pre-test and Post-test Measurements	2-15
14 Exterior Crush Measurements	2-16
15 Vehicle Exterior Crush Profiles	2-17
16 Temperature and Humidity Trace	2-19

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025

TEST VEHICLE INFORMATION AND OPTIONS

Make	Volkswagen	Anti-Lock Brakes (ABS)	Yes
Model	Taos	All-Wheel Drive (AWD)	Yes
Body Style	SUV	Traction Control System (TCS)	Yes
VIN	3VV8C7B2XSM004592	Electric Stability Control (ECS)	Yes
Body Color	Pyrite Silver Metallic	Curtain Airbags	Yes
Engine Displacement (L)	1.5	Torso Airbags – Front Seats	Yes
Type / No. Cylinders	I4	Torso Airbags – Rear Seats	No
Engine Placement	Transverse	Combination/Head Torso Bag	No
Transmission Type	Automatic	Pelvic Airbag – Front Seats	No
Transmission Speeds	8-Speed	Pelvis Airbag – Rear Seats	No
Overdrive	Yes	Knee Airbag – Driver	No
Final Drive	All Wheel Drive	Knee Airbag – Front Passenger	No
Odometer Reading (mi)	604 mi	Seat Belt Pretensioners – Front Seats	Yes
		Seat Belt Pretensioners – Rear Seats	No
		Seat Belt Load Limiter – Front Seats	Yes
		Seat Belt Load Limiter – Rear Seats	No
		Tire Pressure Monitoring System (TPMS)	Yes
		Tilt Steering Wheel	Yes
		Automatic Door Locks (ADL)	Yes
		Power Window Auto-reverse	Yes
		Power Seats	No
		Other Safety Restraint	N/A

DATA FROM CERTIFICATION LABEL

Manufactured By	Volkswagen de Mexico S.A. de C.V. Mexico	GVWR (kg)	2090
Date of Manufacture	11/24	GAWR Front (kg)	1070
Vehicle Type	MPV	GAWR Rear (kg)	1070

VEHICLE SEATING AND WEIGHT CAPACITY DATA

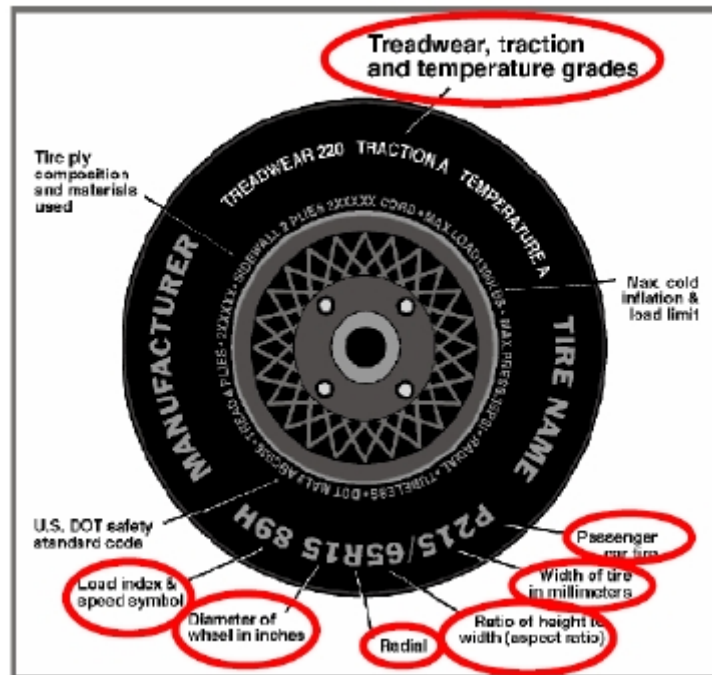
Measured Parameter	Front	Rear	Third	Total
Type of Seats (Bench or Bucket)	Bucket	Split Bench	N/A	
Designated Seating Capacity (DSC)	2	3	N/A	5
Capacity Weight (VCW) (kg)				425
Cargo Weight (RCLW) (kg)				84.8

DATA SHEET NO. 2 VEHICLE TIRE INFORMATION

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025

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



VEHICLE TIRE INFORMATION

Tire Placard	Front	Rear
Recommended Cold Pressure (kPa)	280	280
Recommended Tire Size	215/55R18	215/55R18
Tire Sidewall	Front	Rear
Maximum Tire Pressure (kPa)	350	350
Tire Size on Vehicle	215/55R18	215/55R18
Tire Manufacturer Model	Goodyear	Goodyear
Tire Name	Assurance	Assurance
Tire Type	All Season	All Season
Tire Width	215	215
Aspect Ratio	55	55
Radial	Yes	Yes
Wheel Diameter	18"	18"
Load Index / Speed Symbol	95H	95H
Treadwear	520	520
Traction Grade	A	A
Temperature Grades	A	A

DATA SHEET NO. 3
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025

TIRE PRESSURES

	Units	LF	RF	LR	RR
As Delivered	kPa	262	262	255	255
Tire Placard	kPa	280	280	280	280

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			Fully Loaded			As Tested		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	471	322		501	396		508	380	
Right	kg	428	346		434	401		444	393	
Ratio	%	57.4	42.6		54.0	46.0		55.2	44.8	
Totals	kg	899	668	1567	935	797	1732	952	773	1725

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total As Delivered Weight (UVW)	kg	1567	(A)
Weight of Test Dummy	kg	81	(B)
Rated Cargo / Luggage Weight (RCLW)	kg	84.8	(C)
Calculated Vehicle Target Weight (TVTW)	kg	1732.8	(A+B+C)

TEST VEHICLE ATTITUDES AND CG

Measurement Description	Units	As Delivered	Fully Loaded	As Tested
Driver Door Sill Angle	Deg	0.00	+0.15	+0.15
Front Passenger Sill Angle	Deg	-0.75	-0.35	-0.35
Front Bumper-Line Angle	Deg	-0.30	-0.20	-0.20
Rear Bumper-Line Angle	Deg	-0.15	-0.35	-0.35

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

CALCULATION OF VERTICAL IMPACT REFERENCE LINE

Measured Parameter	Units	Value
Test Vehicle Wheelbase	mm	2679
Vertical Impact Reference Line Aft of Front Axle	mm	1254

WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW

Component Description	Weight (kg)
Trunk Carpeting	11
Spare Tire	15
Jack	3
Ballast (if any)	45

DATA SHEET NO. 4
SEAT AND SEAT BELT ANCHORAGE ADJUSTMENT DATA

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

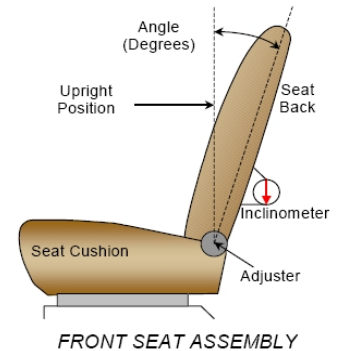
NHTSA No.: C20255800
Test Date: 07/31/2025

SEAT BACK ANGLE ADJUSTMENT

The driver and passenger seat backs are positioned to the manufacturer's designated angle provided in the Form1.

	Units	Seat Back Angle
Driver Seat	degrees	15.7
Front Passenger Seat	degrees	15.2

*Measurement taken on seatback



SEAT HEIGHT AND ANGLE

Seat	As Tested SCRL Angle (Mid) (°)	SCR P Height Position	SCR P Height (mm)		
			Rearmost	Mid-Fore / Aft	Forward-Most
Driver Seat	15.5	Max	-	-	-
		Mid	-	-	-
		Min	13	13	13
Front Passenger Seat	Fixed	Max			
		Mid			
		Min			

SEAT FORE / AFT POSITION

Seat	Total Fore / Aft Travel		Placed in Position #	
	mm	Detents*	mm	Detents*
Driver Seat	250	39 (0-38)	125	19
Front Passenger Seat	250	39 (0-38)	125	19

SEAT BELT ANCHORAGE ADJUSTMENT

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

HEAD RESTRAINT ADJUSTMENT

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

DATA SHEET NO. 5
FUEL SYSTEMS AND STEERING WHEEL POSITION DATA

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025

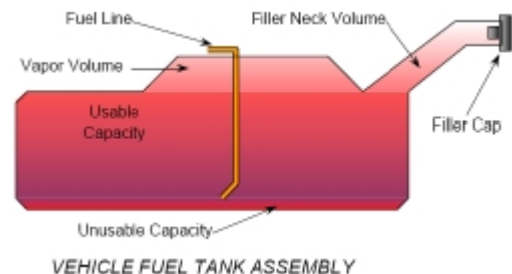
FUEL TANK CAPACITY DATA

Description	Liters
Usable Capacity of (Form No.1)	55
Usable Capacity of (Owner's Manual)	55
92 - 94% of Usable Capacity	51.15 - 51.7
Actual Amount of Solvent Used in Test	51.2

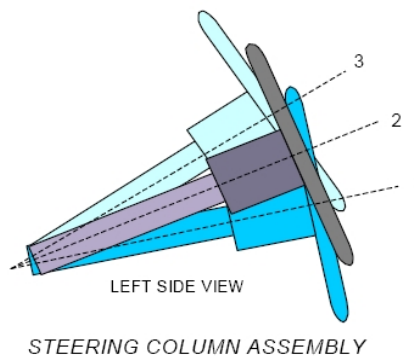
FUEL PUMP

Describe the operation of the fuel pump.

The vehicle is equipped with an electric fuel pump. The fuel filler neck is on the right 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.



STEERING COLUMN POSITIONS

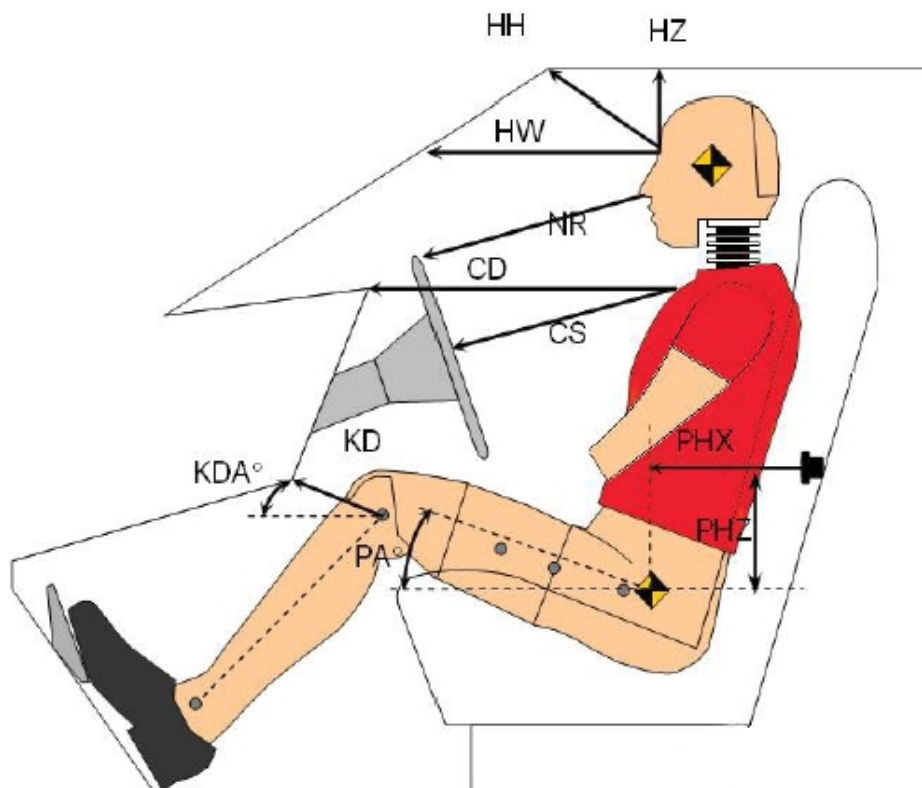


	Degrees	Fore / Aft Position (mm)
Lowermost - Position No. 1	23.9	
Geometric center - Position No. 2	26.6	
Uppermost - Position No. 3	29.2	
Telescoping Steering Wheel Travel		68
Test Position	26.6	34

DATA SHEET NO. 6
DUMMY LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025



Left Side View

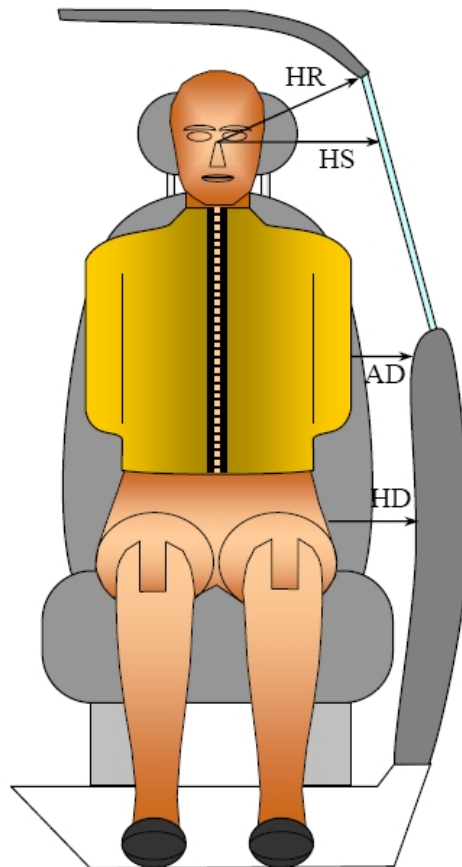
DUMMY LONGITUDINAL CLEARANCE DIMENSION INFORMATION

Driver Code	Description	Driver	
		Length (mm)	Angle (°)
HH	Head to Header	400	
HW	Head to Windshield	600	
HZ	Head to Roof Liner	205	
NR	Nose to Rim	439	
CD	Chest to Dash	580	
CS	Chest to Steering Wheel	389	
KD(L) / KDA(L)°	Left Knee to Dash	196	30.5
KD(R) / KDA(R)°	Right Knee to Dash	200	28.6
PAX°	Pelvic Tilt Angle (X-Axis)		20.6
PAY°	Pelvic Tilt Angle (Y-Axis)		1.1
PHX	Hip Point to Striker (X-Axis)	170	
PHZ	Hip Point to Striker (Z-Axis)	214	

DATA SHEET NO. 7
DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025



FRONT VIEW OF DUMMY

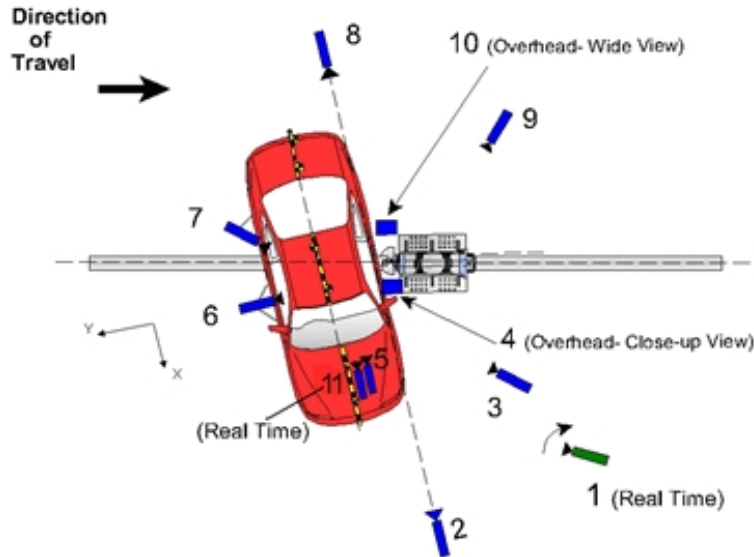
DUMMY LATERAL CLEARANCE DIMENSION INFORMATION

Code	Measurement Description	Units	Driver
HR	Head to Side Header	mm	220
HS	Head to Side Window	mm	336
AD	Arm to Door	mm	96
HD	H-Point to Door	mm	134

DATA SHEET NO. 8 LOCATION OF CAMERA

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025



CAMERA LOCATIONS AND DATA

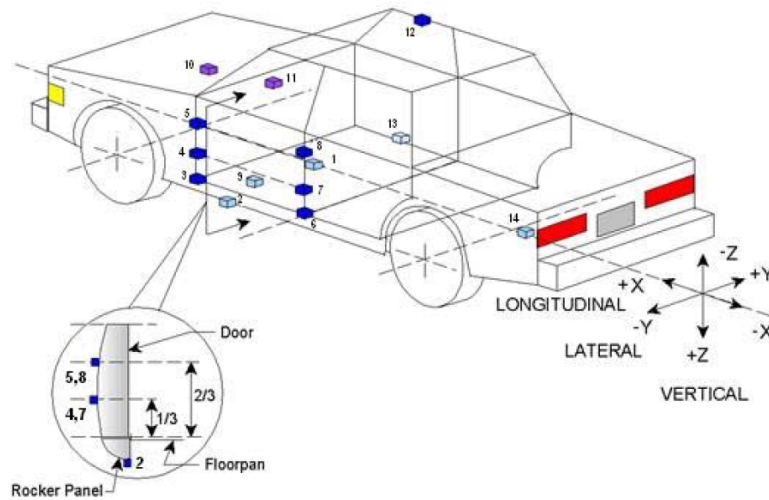
No.	Camera View	Coordinates (mm)			Lens Length (mm)	Operating Frame Rate (fps)
		X	Y	Z		
1	Real-time (24 - 30 fps) pan view of impact				Zoom	60
2	Front ground level - impact view	8359	-467	-1560	28	1000
3	Impact side 45° - forward pole view	4851	1169	-1457	24	1000
4	Overhead Close-up view of impact	0	0	-8992	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	-7898	-108	-1419	28	1000
9	Impact side 45° - rearward pole view	-4585	3889	-1466	24	1000
10	Overhead wide - view of impact	0	-207	-8992	16	1000

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.

DATA SHEET NO. 9 **TEST VEHICLE ACCELEROMETER LOCATIONS**

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025



TEST VEHICLE ACCELEROMETER LOCATIONS

No.	Accelerometer Location	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	2398	22	548
2	Left Floor Sill	2636	-667	405
3	A-Pillar Sill	3060	-620	412
4	A-Pillar Low	3142	-626	634
5	A-Pillar Mid	3034	-658	1132
6	B-Pillar Sill	2012	-688	466
7	B-Pillar Low	1990	-691	725
8	B-Pillar Mid	1950	-678	1037
9	Seat	2314	-598	427
10	Engine	3744	332	842
11	Firewall	3459	-33	977
12	Roof	2214	573	1589
13	Right Floor Sill	2631	667	409
14	Rear Deck	1051	13	544

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

DATA SHEET NO. 10
TEST VEHICLE ACCELEROMETER DATA SUMMARY

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025

Loc. No	Description	Axes	Units	Positive Direction		Negative Direction	
				Max	Time (ms)	Max	Time (ms)
1	Vehicle CG	X	g	5.71	34.45	-23.07	59.95
	Vehicle CG	Y	g	76.17	32.40	-21.57	36.65
	Vehicle CG	Z	g	22.00	47.80	-20.71	40.35
	Vehicle CG Resultant	N/A	g	76.34	32.40	0.03	-36.20
2	Floor Sill (Left)	Y	g	55.27	13.65	-12.03	72.50
3	A Pillar Sill	Y	g	22.13	14.55	-9.43	18.95
4	A Pillar Low	Y	g	52.55	50.75	-26.52	45.35
5	A Pillar Mid	Y	g	18.26	64.50	-4.92	70.30
6	B Pillar Sill	Y	g	106.64	15.10	-22.08	9.05
7	B Pillar Low	Y	g	95.44	15.95	-24.24	8.80
8	B Pillar Mid	Y	g	107.30	16.30	-36.07	12.90
9	Seat	Y	g	74.71	24.50	-24.18	37.00
10	Engine Top	X	g	3.43	128.25	-16.04	42.50
	Engine Top	Y	g	15.43	43.70	-5.09	188.75
11	Firewall	Y	g	15.13	59.40	-1.38	2.85
12	Roof	Y	g	30.39	37.60	-1.71	280.95
13	Floor Sill (Right)	Y	g	14.35	41.40	-2.20	10.95
14	Rear Deck	X	g	2.32	115.85	-7.30	14.95
	Rear Deck	Y	g	16.79	45.40	-1.67	176.80

DATA SHEET NO. 11
DUMMY INJURY RESPONSE DATA
(Subpart U, ES-2re)

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025

Dummy Serial No. DG5348

Description	Axes	Positive Direction		Negative Direction	
		Max	Time (ms)	Max	Time (ms)
HEAD ACCELERATION (g)					
Longitudinal	X	6.40	86.10	-23.60	47.55
Lateral	Y	51.19	56.15	-22.46	98.05
Vertical	Z	18.89	43.15	-1.53	13.95
Resultant	N/A	55.95	56.15		
HIC36 (t1, t2)	N/A	411.76		t1 = 40.90	t2 = 70.50
THORAX DEFLECTION (mm)					
Upper Rib	Y	24.40	55.30	-0.82	18.50
Middle Rib	Y	15.03	58.00	-0.62	86.30
Lower Rib	Y	16.38	57.20	-0.02	4.25
ABDOMINAL FORCES (N)					
Front	Y	241.66	43.20	-18.41	21.60
Middle	Y	290.94	43.40	-8.55	12.85
Rear	Y	433.97	44.70	-7.08	13.25
SUM	N/A	946.79	43.80		
PELVIS FORCES (N)					
Pubic Symphysis	Y	152.31	110.30	-2408.92	56.05

Reference: Positive Direction - Longitudinal (X) = forward
- Lateral (Y) = to right
- Vertical (Z) = down

**DATA SHEET NO. 12
POST-TEST OBSERVATIONS**

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025

IMPACT POINT DATA

Measured Parameter	Units	Value
Vertical Impact Ref Line - Aft of Front Axle, Intended Impact Pt	mm	1254
Actual Impact Point - Aft of Front Axle	mm	1256
Difference	mm	-2

TEST DUMMY INFORMATION AND CONTACT POINTS

Dummy Body Part	Driver Seat Dummy (ES2-re)
Head Contact	Curtain Airbag, Headliner, Headrest
Upper Torso Contact	Curtain Airbag, Door Trim, Torso/Pelvis Airbag, Seat Back
Lower Torso Contact	Torso/Pelvis Airbag, Seat Back
Left Knee Contact	Door Trim
Right Knee Contact	Left Knee

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

POST-TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	B-Pillar & C-Pillar Buckled
Sill Separation	None
Windshield Damage	Cracked throughout and slight separation along A-Pillar
Side Window Damage	Driver door window shattered
Other Notable Effects	None

DATA SHEET NO. 12 ... (CONTINUED)
POST-TEST OBSERVATIONS

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025

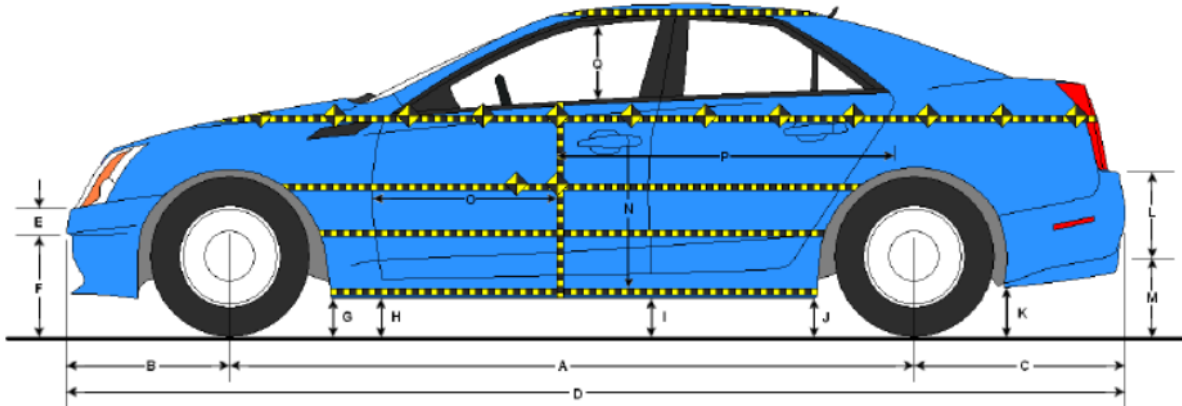
SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

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

DATA SHEET NO. 13
VEHICLE PRE TEST AND POST TEST MEASUREMENTS

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025



LEFT SIDE VIEW

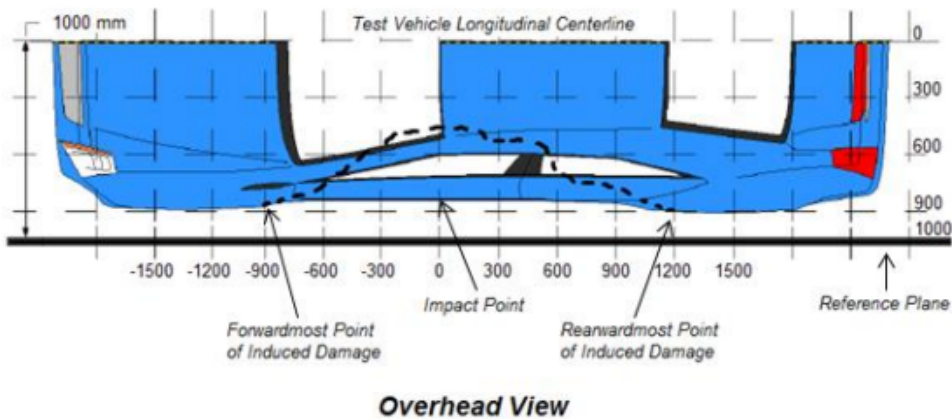
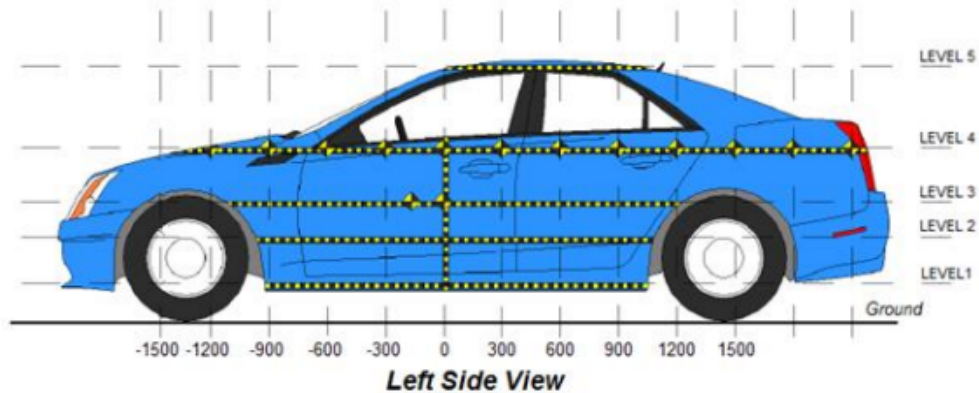
VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION

No.	Measurement Description	Pre-Test	Post-Test	Difference
A	Vehicle Wheelbase	2679	2657	-22
B	Front Axle to FSOV	904	917	12
C	Rear Axle to RSOV	887	889	2
D	Total Vehicle Length at Centerline	4470	4463	-7
E	Front Bumper Thickness	90	90	0
F	Front Bumper Bottom to Ground	490	500	10
G	Sill Height at Front Wheel Well	267	275	8
H	Sill Height at Front Door Leading Edge	267	270	3
I	Sill Height at B Pillar	272	253	-19
J1	Sill Height at Rear Wheel Well	270	288	18
J2	Pinch Weld Height at Rear Wheel Well	242	260	18
K	Sill Height Aft of Rear Wheel Well	268	281	13
L	Rear Bumper Thickness	90	90	0
M	Rear Bumper Bottom to Ground	450	440	-10
N	Sill Height to Window Bottom Sill	845	854	9
O	Front Door Leading Edge to Impact CL	764	717	-47
P	Rear Door Trailing Edge to Impact CL	1336	1277	-59
Q	Front Window Opening	385	373	-12
R	Right Side Length	4384	4388	5
S	Left Side Length	4381	4363	-19
T	Vehicle Width at B-Pillars	1800	1668	-132

DATA SHEET NO. 14
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025



MAXIMUM EXTERIOR CRUSH MEASUREMENTS

Level	Measurement Description	Units	Height Above Ground	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	mm	392	295	0
2	Occupant H-Point	mm	646	293	0
3	Mid-Door	mm	715	302	0
4	Window Sill	mm	1060	268	0
5	Window Top	mm	1538	100	0

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. 14
VEHICLE EXTERIOR CRUSH MEASUREMENTS (CONTINUED)

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025

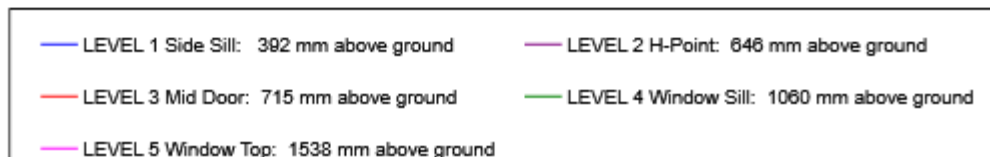
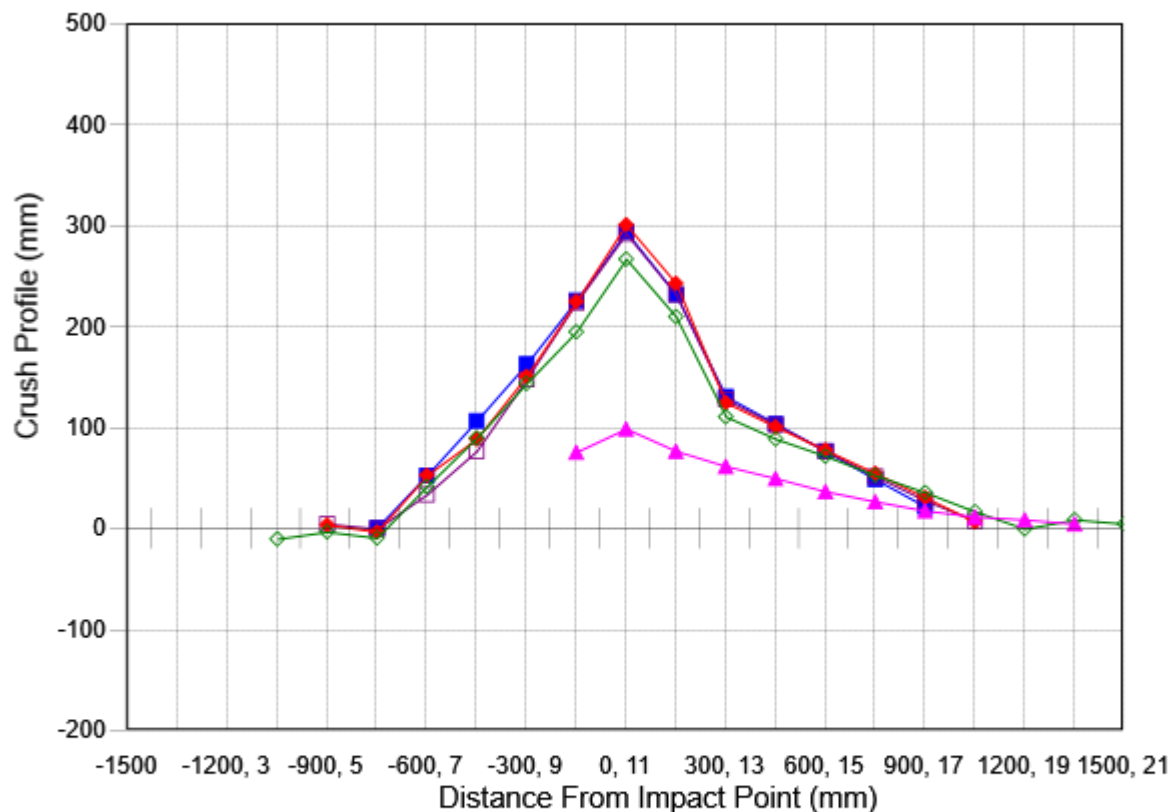
EXTERIOR CRUSH MEASUREMENTS AT EACH LEVEL

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-1500															
-1350															
-1200															
-1050				780					789					-9	
-900		909	913	791			903	908	793			6	5	-2	
-750	885	892	893	802		883	891	895	810		2	1	-2	-8	
-600	890	883	889	856		836	848	835	813		54	35	54	43	
-450	899	881	889	825		791	803	799	734		108	78	90	91	
-300	900	881	889	834		736	732	737	689		164	149	152	145	
-150	900	880	888	841	621	673	655	662	645	544	227	225	226	196	77
0	900	879	886	848	631	605	586	584	580	531	295	293	302	268	100
150	899	876	884	853	635	666	643	640	642	557	233	233	244	211	78
300	897	873	881	855	634	765	744	755	743	571	132	129	126	112	63
450	894	870	878	857	632	789	766	776	767	581	105	104	102	90	51
600	889	866	875	859	628	811	788	796	786	590	78	78	79	73	38
750	883	862	871	860	624	833	809	815	806	596	50	53	56	54	28
900	867	874	876	860	614	844	845	844	823	595	23	29	32	37	19
1050		893	893	855	603		884	885	837	590		9	8	18	13
1200				850	591				849	581				1	10
1350				843	569				833	563				10	6
1500				835					829					6	

DATA SHEET NO. 14
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS (CONTINUED)

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
 Test Facility: Calspan

NHTSA No.: C20255800
 Test Date: 07/31/2025



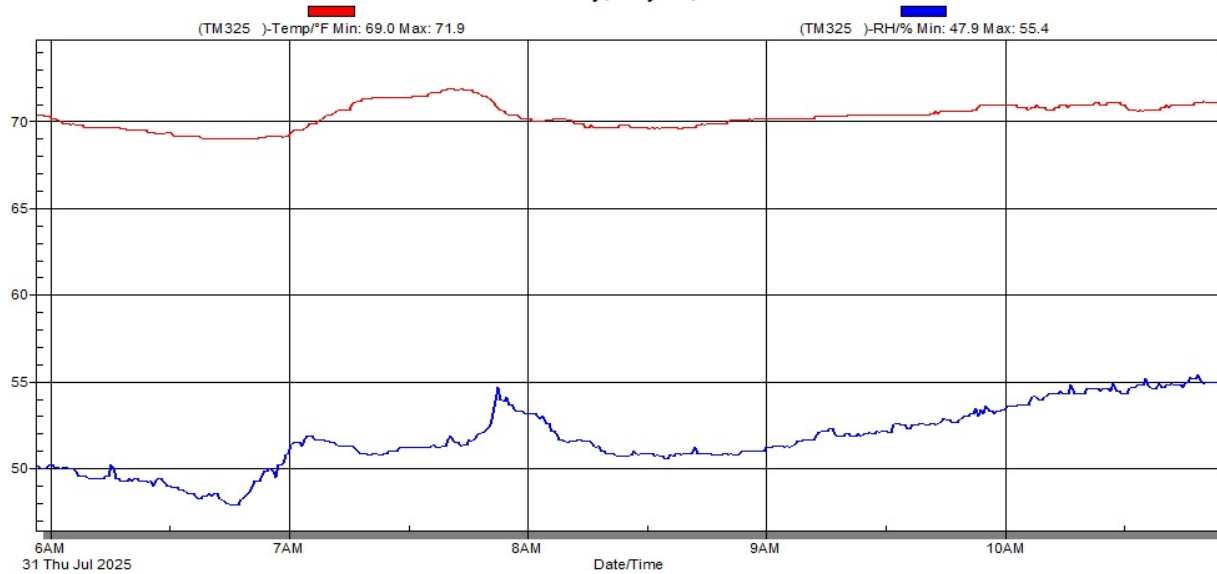
Vehicle Exterior Crush Measurements - Visual Representation

DATA SHEET NO. 16
DUMMY / VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION DATA

Test Vehicle: 2025 Volkswagen Taos 5 Door SUV
Test Facility: Calspan

NHTSA No.: C20255800
Test Date: 07/31/2025

Thursday, July 31, 2025



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

APPENDIX I
PHOTOGRAPHS

TABLE OF PHOTOGRAPHS

Fig.	Description	Page
1	Pre-Test Frontal View of Test Vehicle	I-3
2	Post Test Frontal View of Test Vehicle	I-3
3	Pre-Test Rear View of Test Vehicle	I-4
4	Post-Test Rear View of Test Vehicle	I-4
5	Pre-Test Impacted Side View of Test Vehicle	I-5
6	Post-Test Impacted Side View of Test Vehicle	I-5
7	Pre-Test Left $\frac{3}{4}$ Front View of Vehicle and Pole	I-6
8	Pre-Test Left $\frac{3}{4}$ Rear View of Vehicle and Pole	I-6
9	Pre-Test Overhead View of Test Vehicle	I-7
10	Post-Test Overhead View of Test Vehicle	I-7
11	Pre-Test Dummy Through Opposite Window	I-8
12	Post-Test Dummy Through Opposite Window	I-8
13	Pre-Test Close-Up of Dummy with Door Closed (Impact Side)	I-9
14	Post-Test Close-Up of Dummy with Door Closed (Impact Side)	I-9
15	Pre-Test Dummy with Door Open	I-10
16	Pre-Test Dummy Shoulder and Door Top View	I-10
17	Post-Test Dummy Shoulder and Door Top View	I-11
18	Pre-Test Interior of Front Door Closed (through opposite window)	I-11
19	Post-Test Interior of Front Door Showing Dummy Impact Locations	I-12
20	Impact Event	I-12
21	Post-Test Impact Zone Close-Up View	I-13
22	Post-Test $\frac{3}{4}$ Front View of Impact Zone	I-13
23	Post-Test $\frac{3}{4}$ Rear View of Impact Zone	I-14
24	Post-Test Close-Up View of Impact Point Target	I-14
25	Close-Up View of Vehicle's Certification Label	I-15
26	Close-Up View of Vehicle's Tire Placard Label	I-15



Figure A-1: Pre-Test Frontal View of Test Vehicle

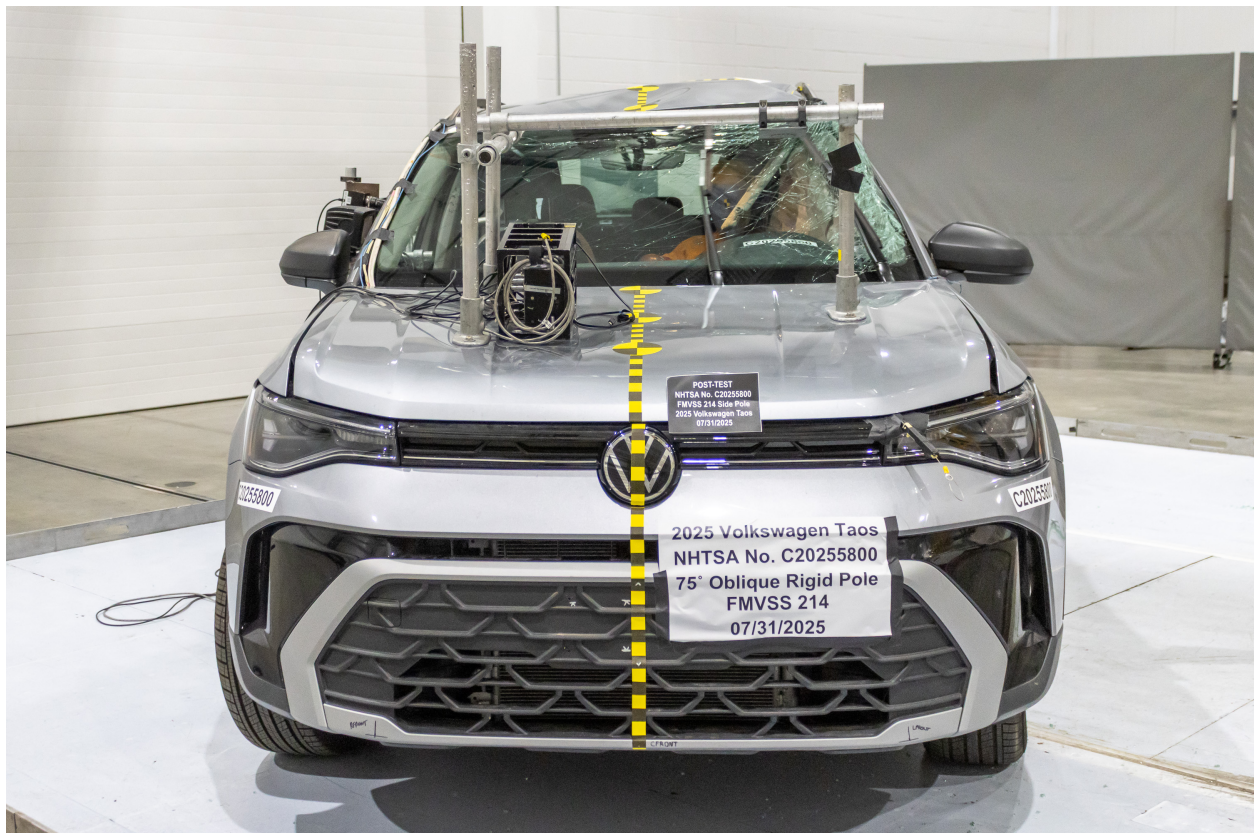


Figure A-2: Post Test Frontal View of Test Vehicle



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

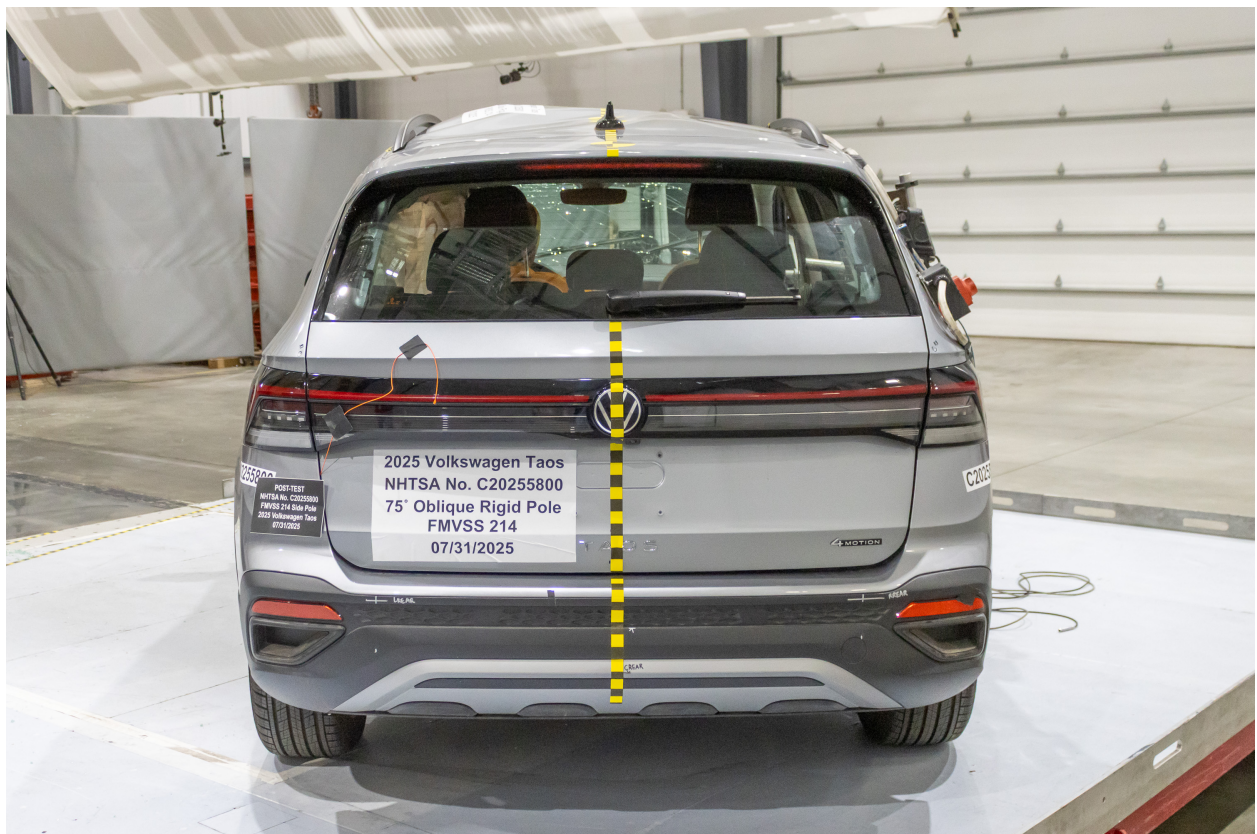


Figure A-4: Post-Test Rear View of Test Vehicle



Figure A-5: Pre-Test Impacted Side View of Test Vehicle



Figure A-6: Post-Test Impacted Side View of Test Vehicle



Figure A-7: Pre-Test Left $\frac{3}{4}$ Front View of Vehicle and Pole



Figure A-8: Pre-Test Left $\frac{3}{4}$ Rear View of Vehicle and Pole



Figure A-9: Pre-Test Overhead View of Test Vehicle

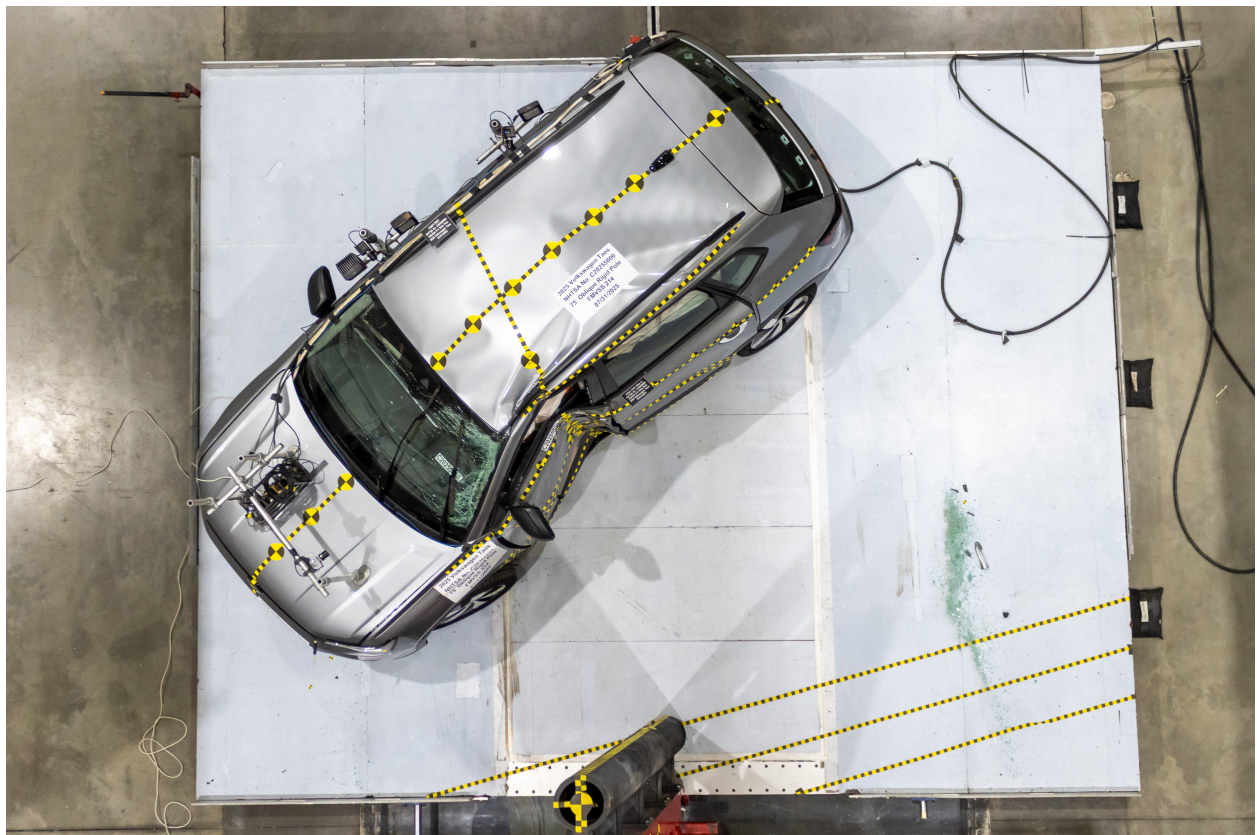


Figure A-10: Post-Test Overhead View of Test Vehicle



Figure A-11: Pre-Test Dummy Through Opposite Window



Figure A-12: Post-Test Dummy Through Opposite Window



Figure A-13: Pre-Test Close-Up of Dummy with Door Closed (Impact Side)



Figure A-14: Post-Test Close-Up of Dummy with Door Closed (Impact Side)



Figure A-15: Pre-Test Dummy with Door Open



Figure A-16: Pre-Test Dummy Shoulder and Door Top View



Figure A-17: Post-Test Dummy Shoulder and Door Top View



Figure A-18: Pre-Test Interior of Front Door Closed (through opposite window)



Figure A-19: Post-Test Interior of Front Door Showing Dummy Impact Locations

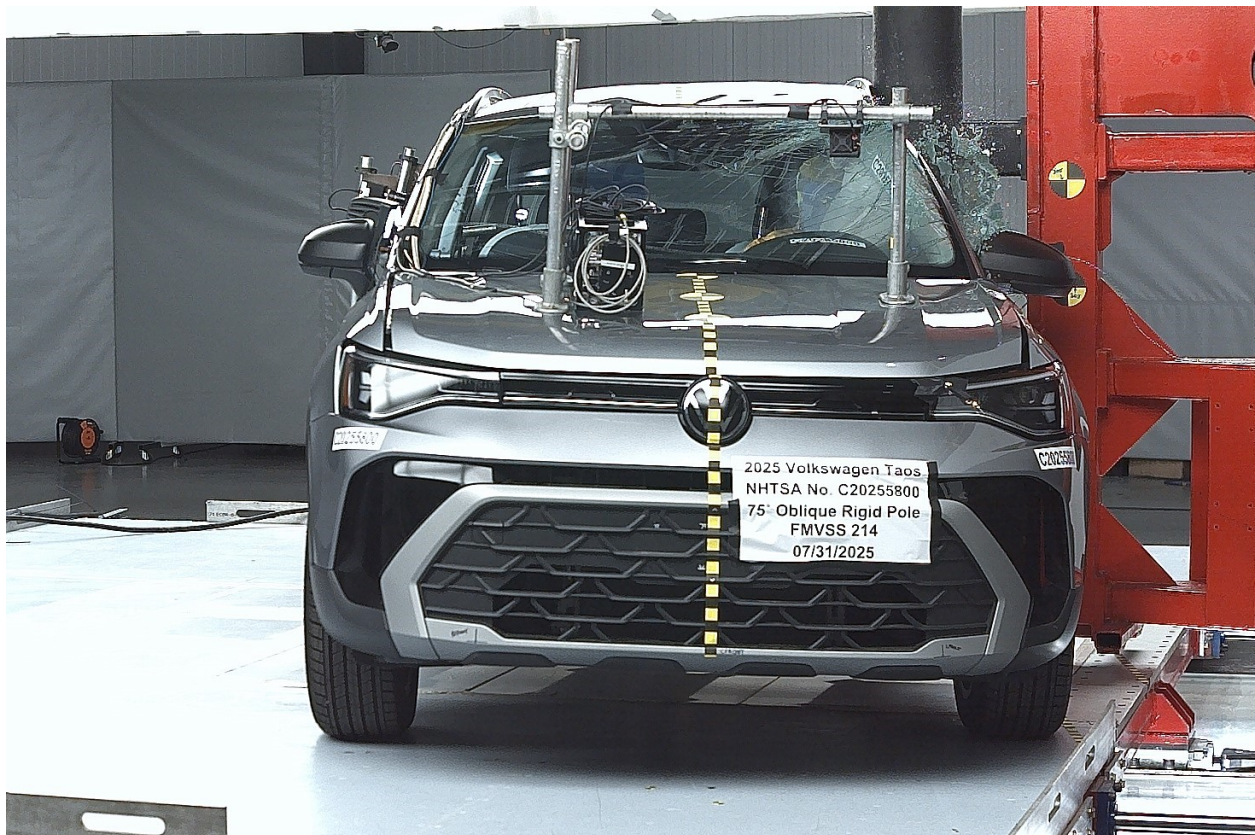


Figure A-20: Impact Event



Figure A-21: Post-Test Impact Zone Close-Up View



Figure A-22: Post-Test $\frac{3}{4}$ Front View of Impact Zone



Figure A-23: Post-Test ¾ Rear View of Impact Zone



Figure A-24: Post-Test Close-Up View of Impact Point Target



Figure A-25: Close-Up View of Vehicle's Certification Label

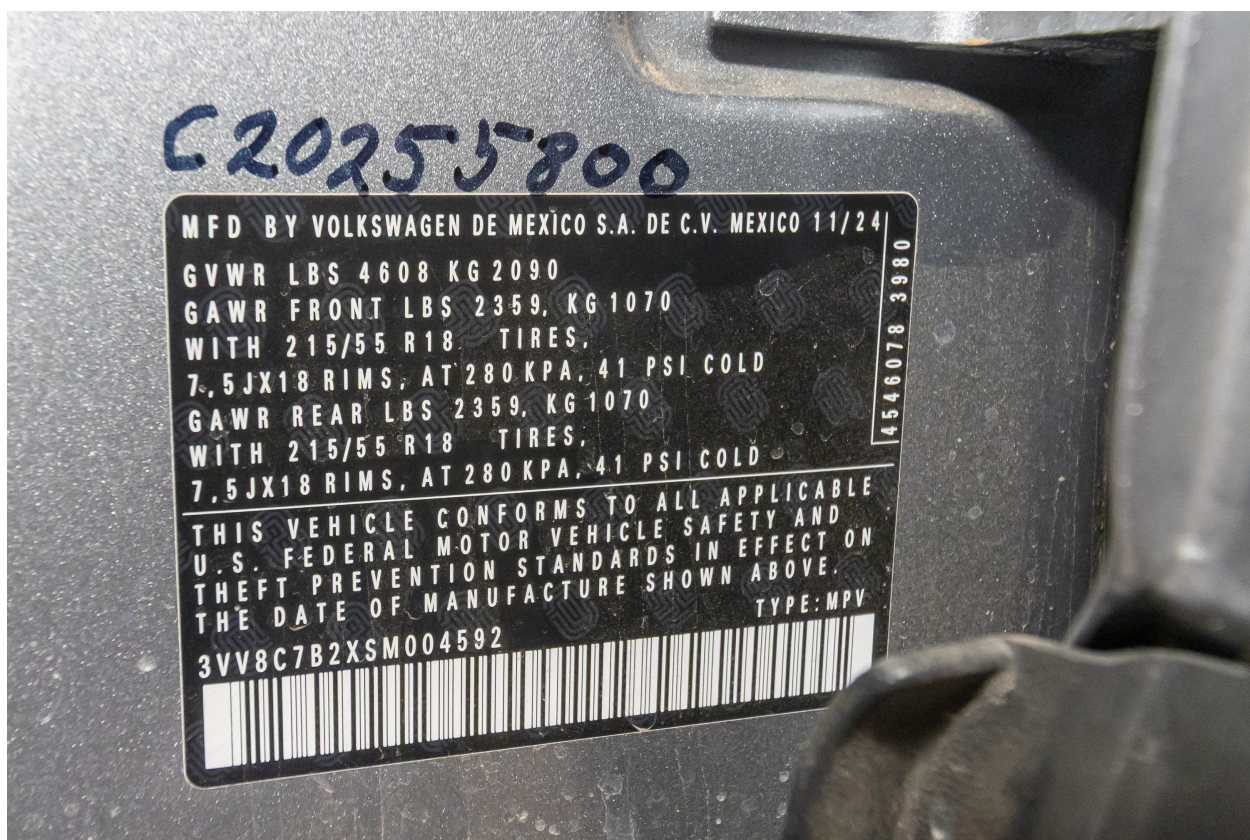


Figure A-26: Close-Up View of Vehicle's Tire Placard Label

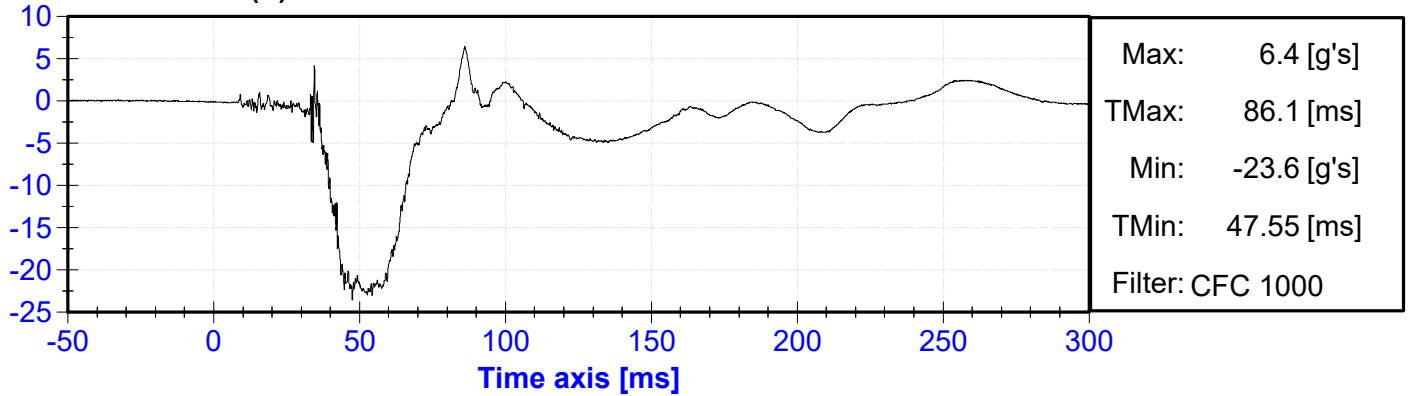
Data Traces
VEHICLE & DUMMY RESPONSE DATA TRACES

Table of Data Plots

No.	Description	Page
1	ES-2re Head (X) Acceleration vs. Time	B-3
2	ES-2re Head (Y) Acceleration vs. Time	B-3
3	ES-2re Head (Z) Acceleration vs. Time	B-3
4	ES-2re Head Resultant Acceleration vs. Time	B-3
5	ES-2re Head (X) Velocity vs. Time	B-4
6	ES-2re Head (Y) Velocity vs. Time	B-4
7	ES-2re Head (Z) Velocity vs. Time	B-4
8	ES-2re Upper Thorax Rib Deflection Rate vs. Time	B-4
9	ES-2re Upper Thorax Rib Deflection (Y) vs. Time	B-5
10	ES-2re Middle Thorax Rib Deflection Rate vs. Time	B-5
11	ES-2re Middle Thorax Rib Deflection (Y) vs. Time	B-5
12	ES-2re Lower Thorax Rib Deflection Rate vs. Time	B-5
13	ES-2re Lower Thorax Rib Deflection (Y) vs. Time	B-6
14	ES-2re Front Abdomen Force (Y) vs. Time	B-6
15	ES-2re Middle Abdomen Force (Y) vs. Time	B-6
16	ES-2re Rear Abdomen Force (Y) vs. Time	B-6
17	ES-2re Sum of Abdomen Forces vs. Time	B-7
18	ES-2re Pubic Symphysis Force (Y) vs. Time	B-7

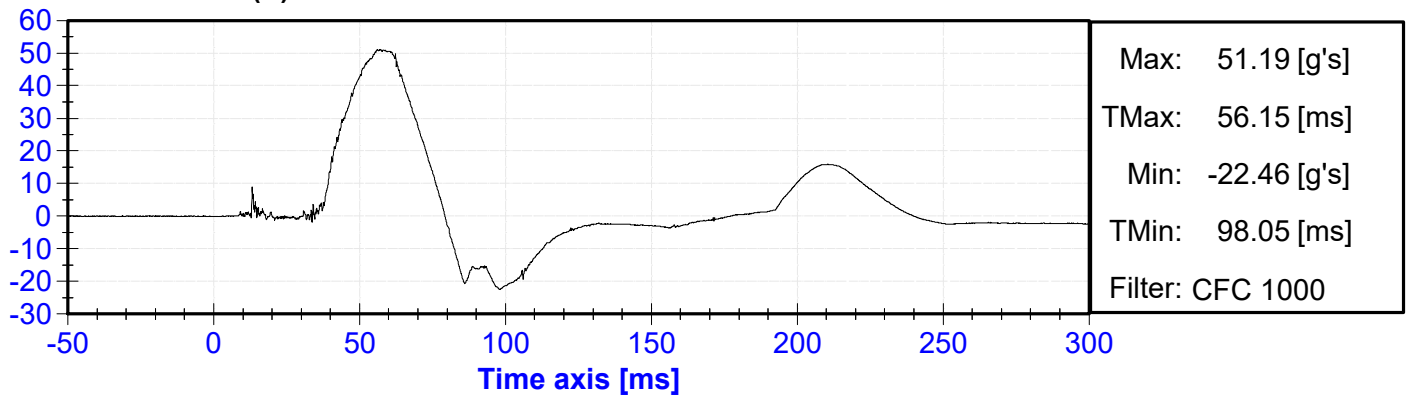
ACCELERATION [g's]

ES-2re Head (X) Acceleration vs. Time



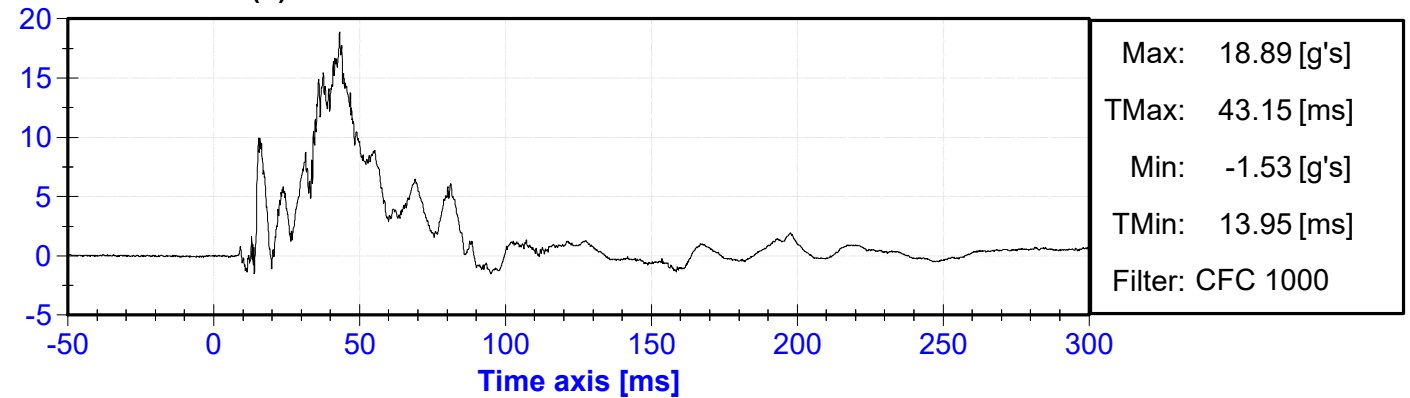
ACCELERATION [g's]

ES-2re Head (Y) Acceleration vs. Time



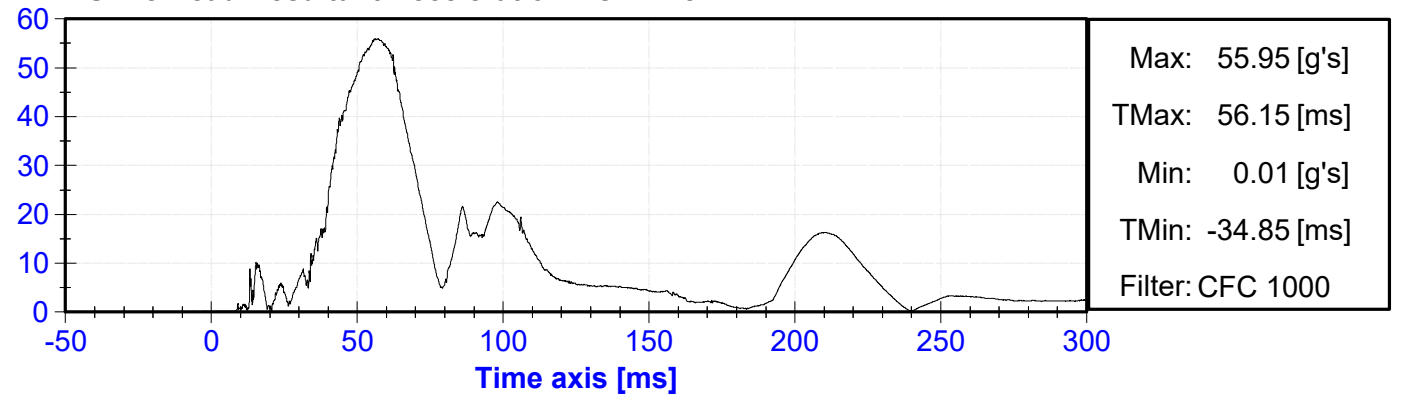
ACCELERATION [g's]

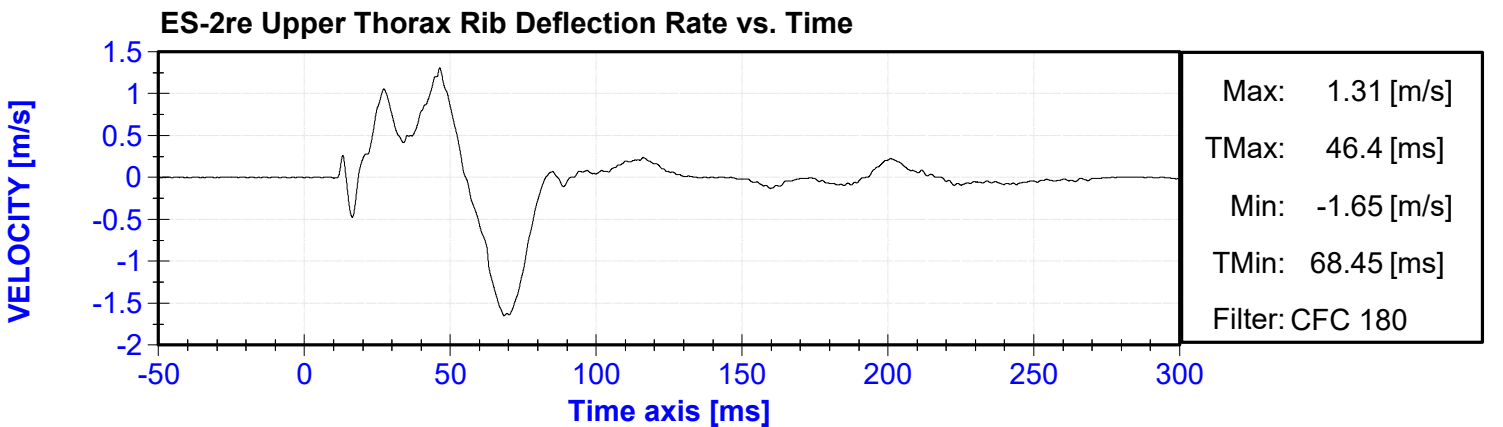
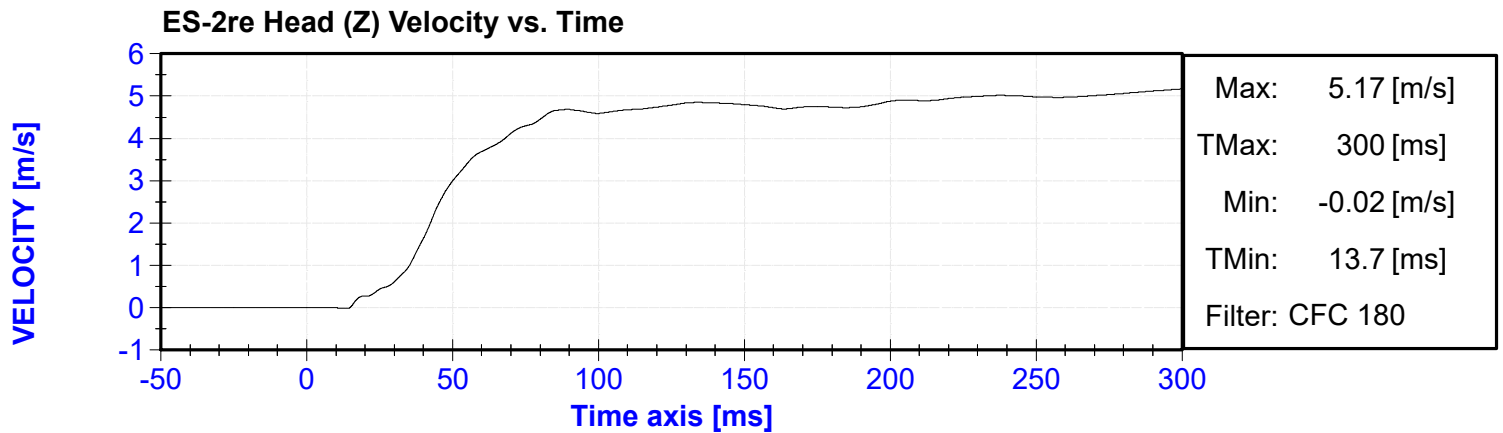
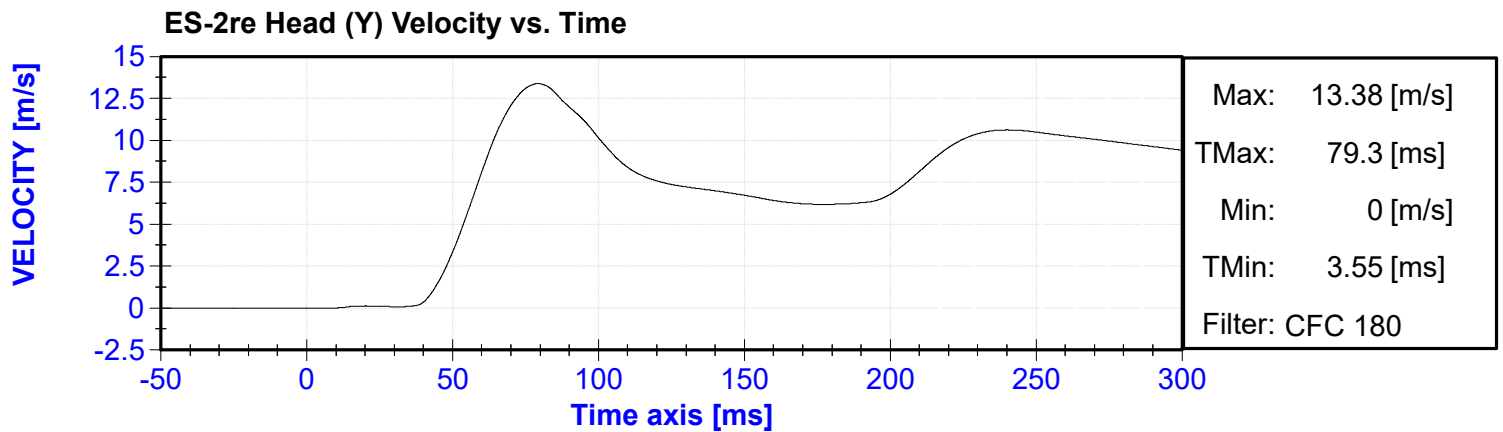
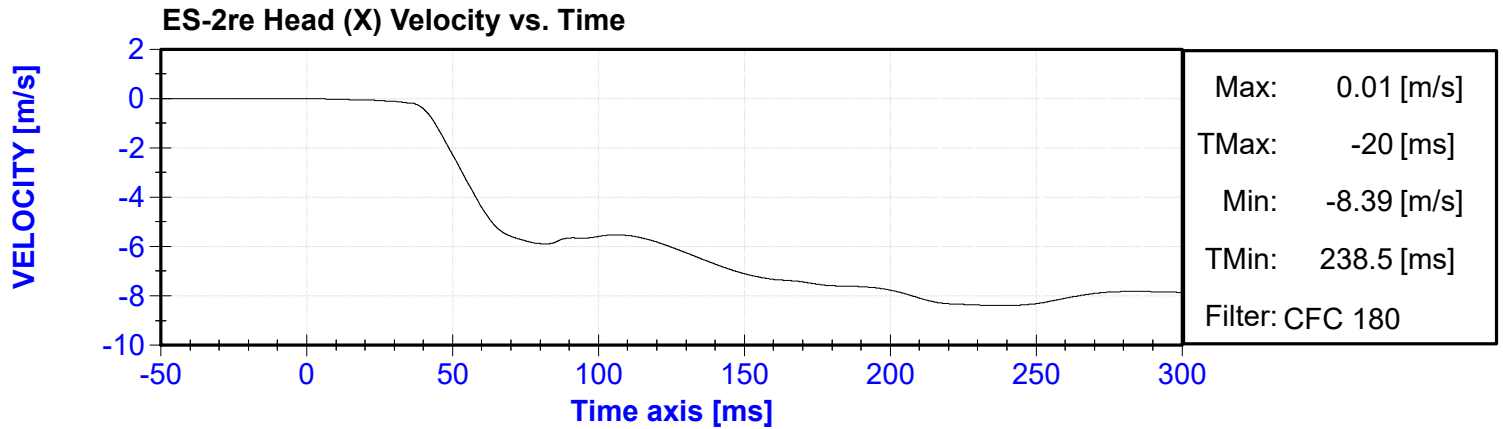
ES-2re Head (Z) Acceleration vs. Time



ACCELERATION [g's]

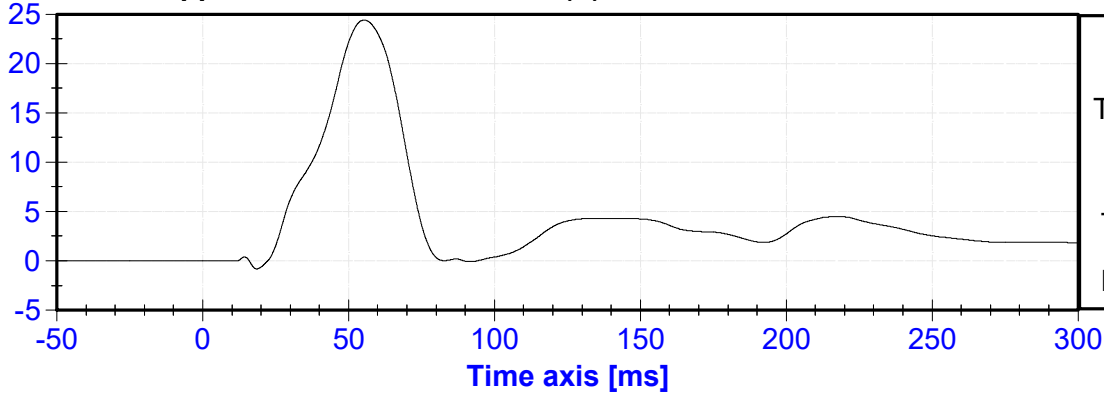
ES-2re Head Resultant Acceleration vs. Time





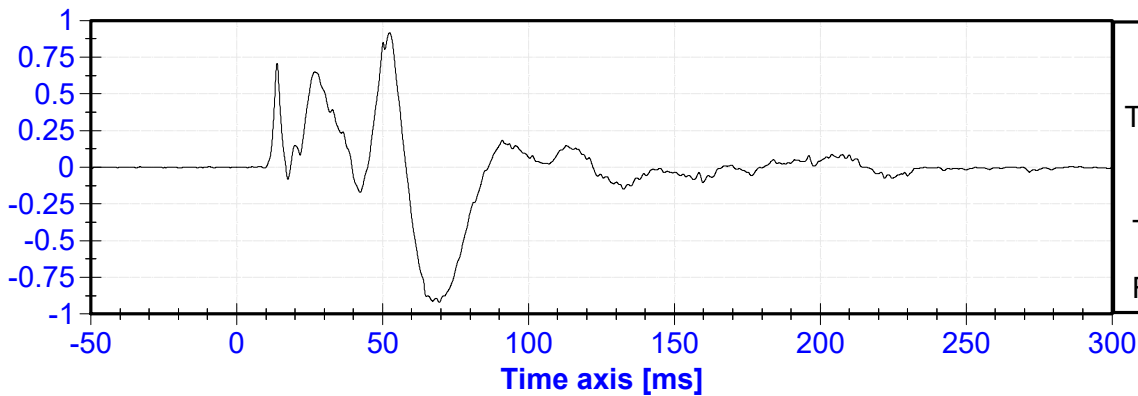
DISPLACEMENT [mm]

ES-2re Upper Thorax Rib Deflection (Y) vs. Time



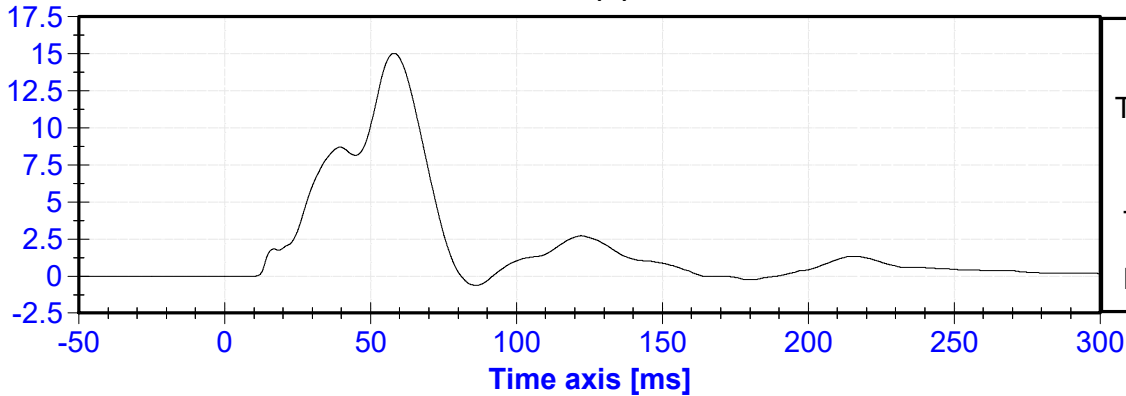
VELOCITY [m/s]

ES-2re Middle Thorax Rib Deflection Rate vs. Time



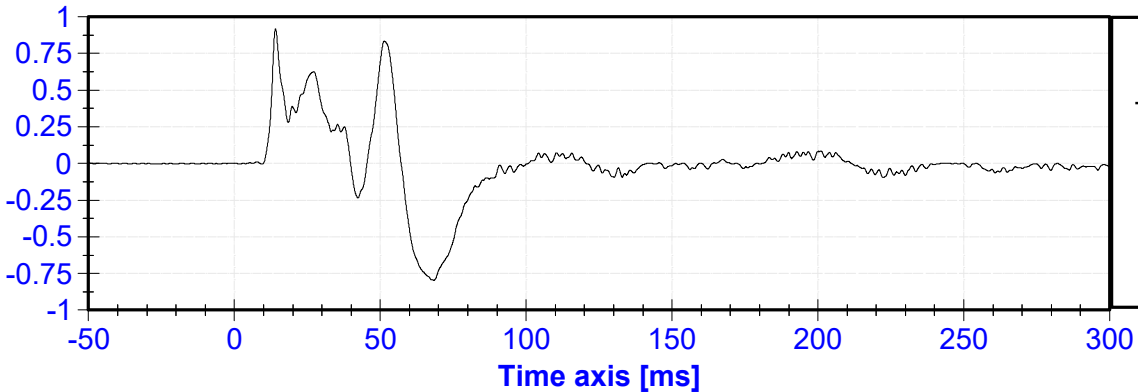
DISPLACEMENT [mm]

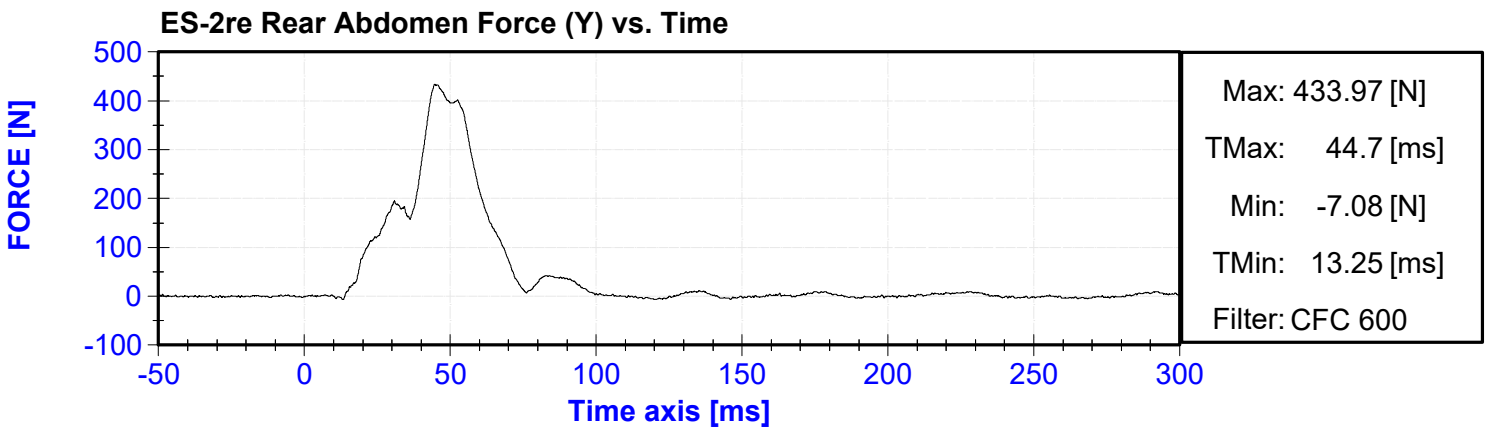
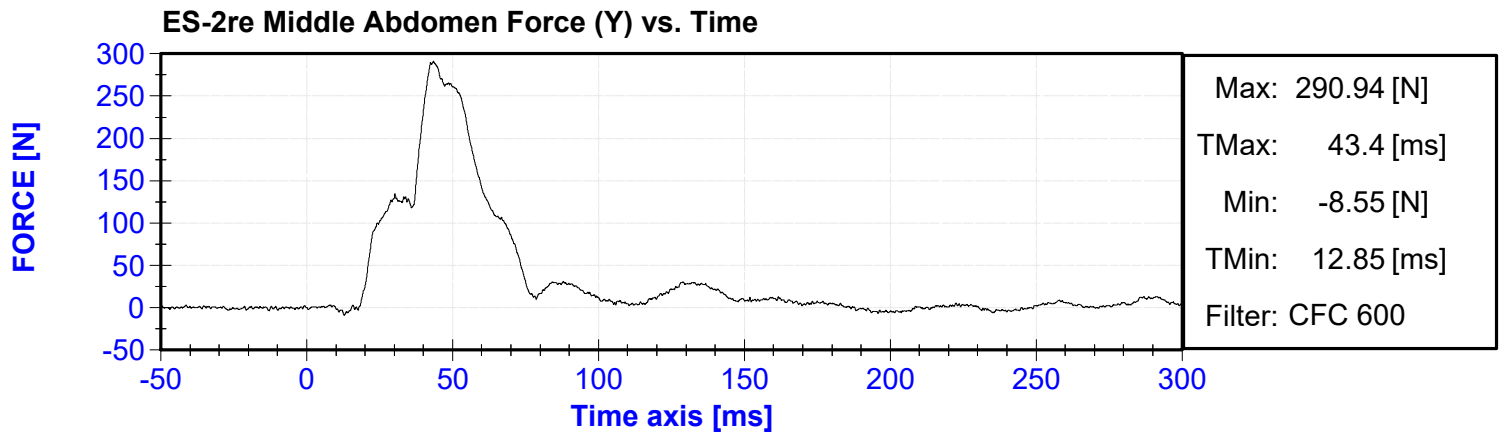
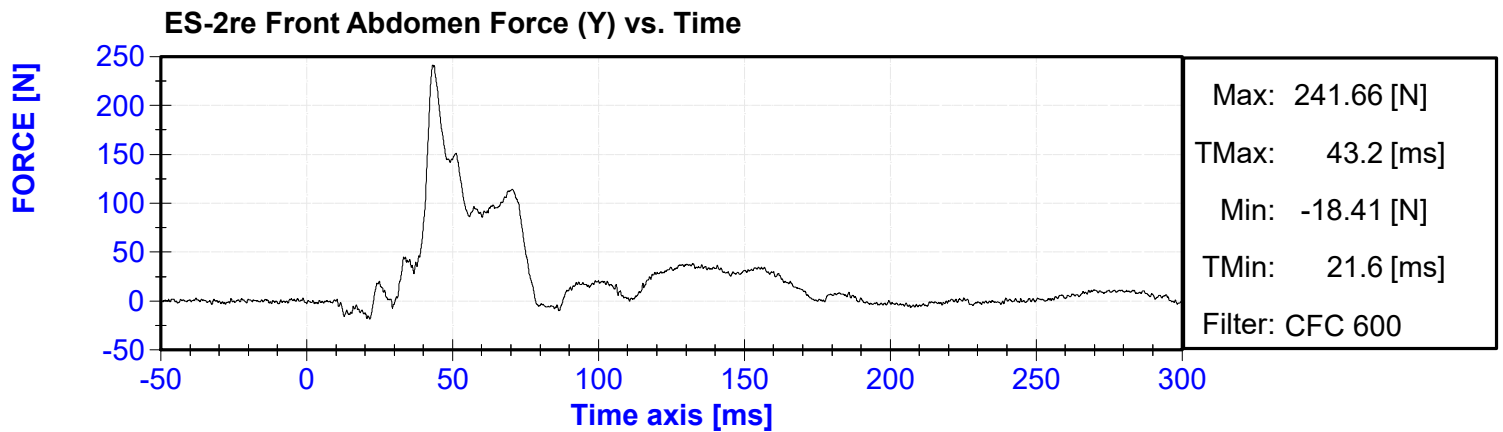
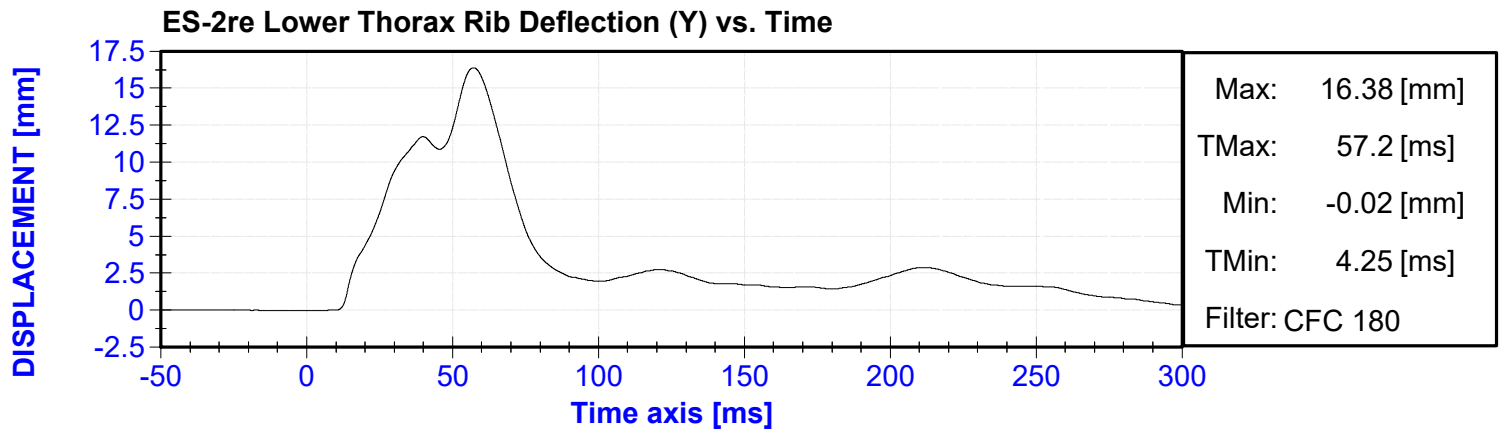
ES-2re Middle Thorax Rib Deflection (Y) vs. Time

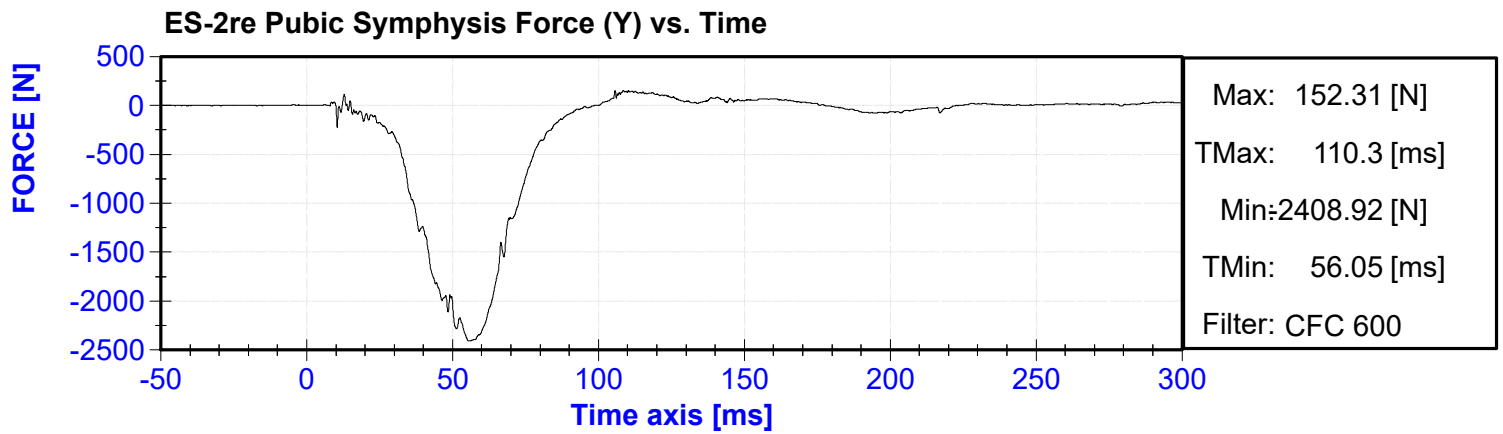
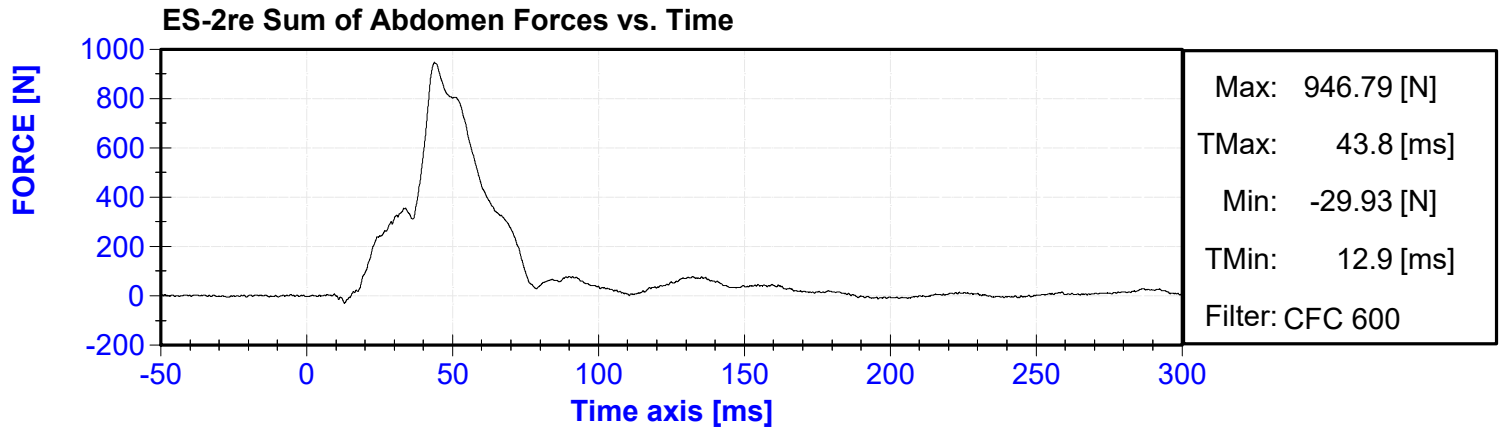


VELOCITY [m/s]

ES-2re Lower Thorax Rib Deflection Rate vs. Time



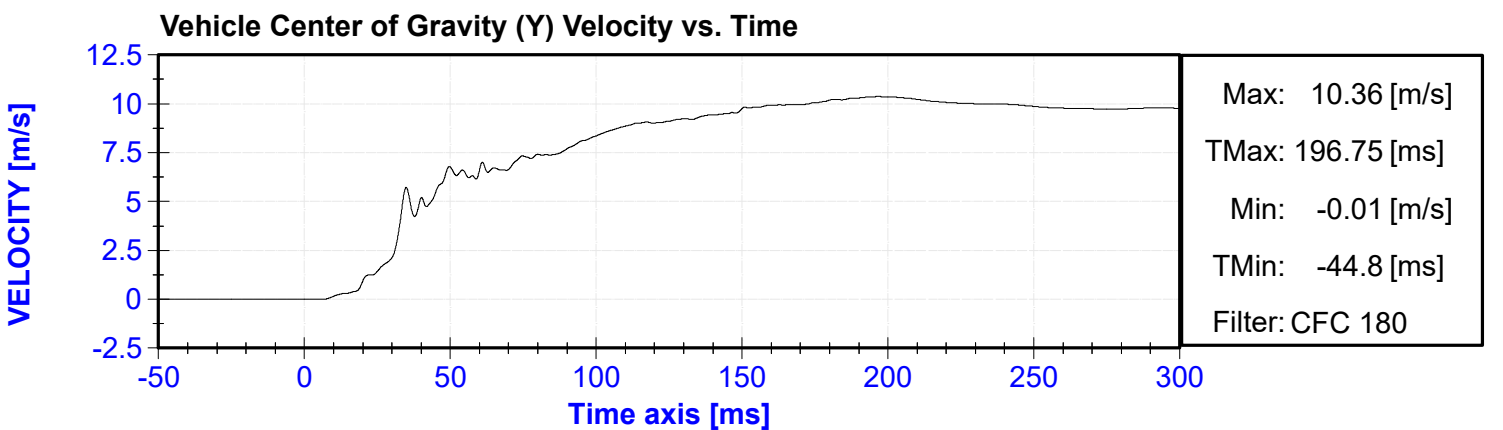
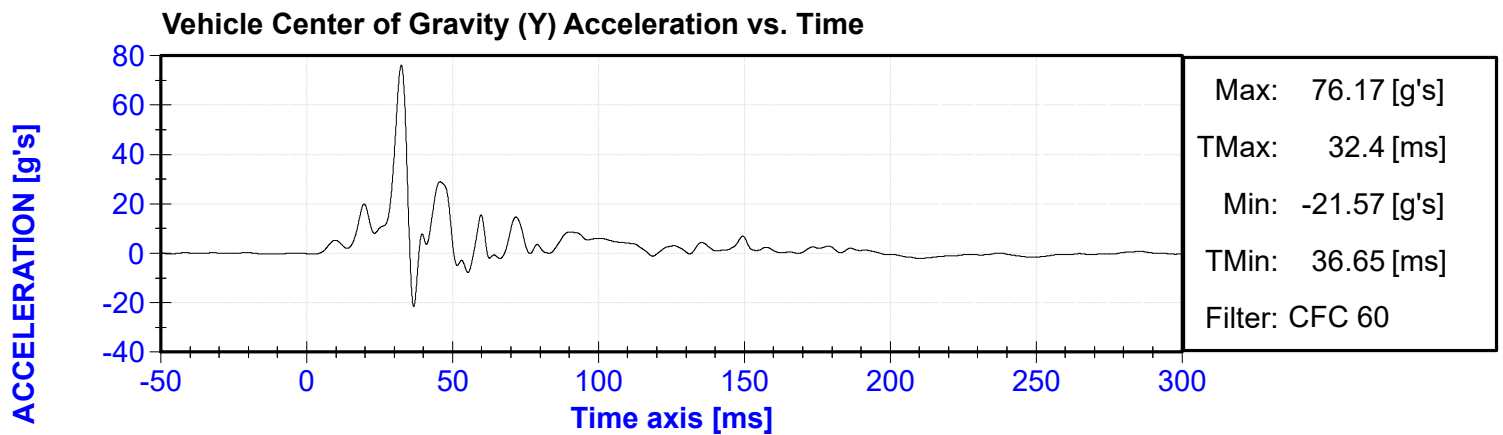
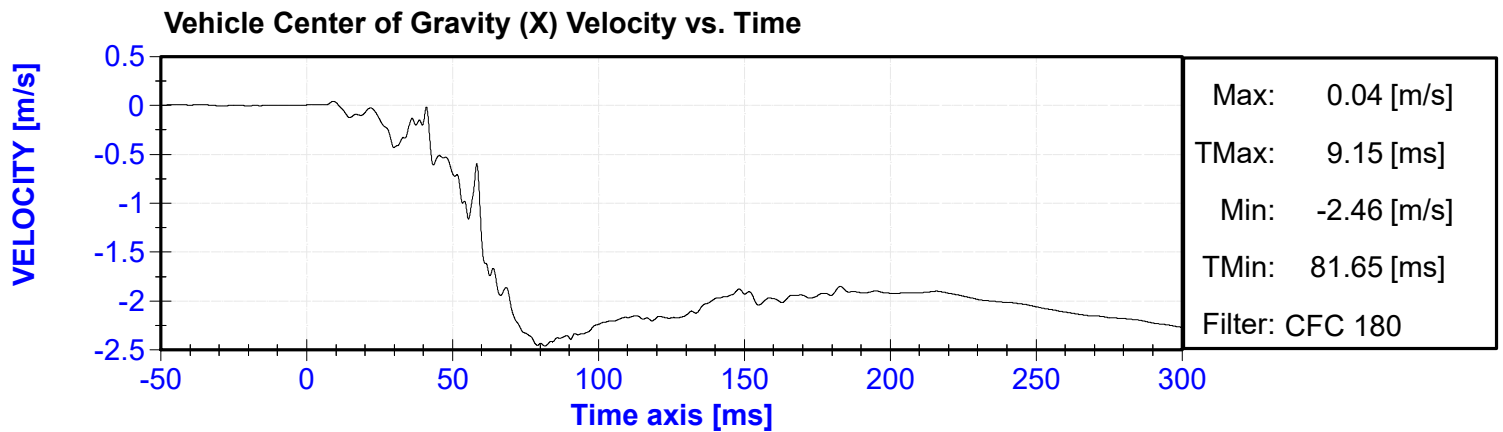
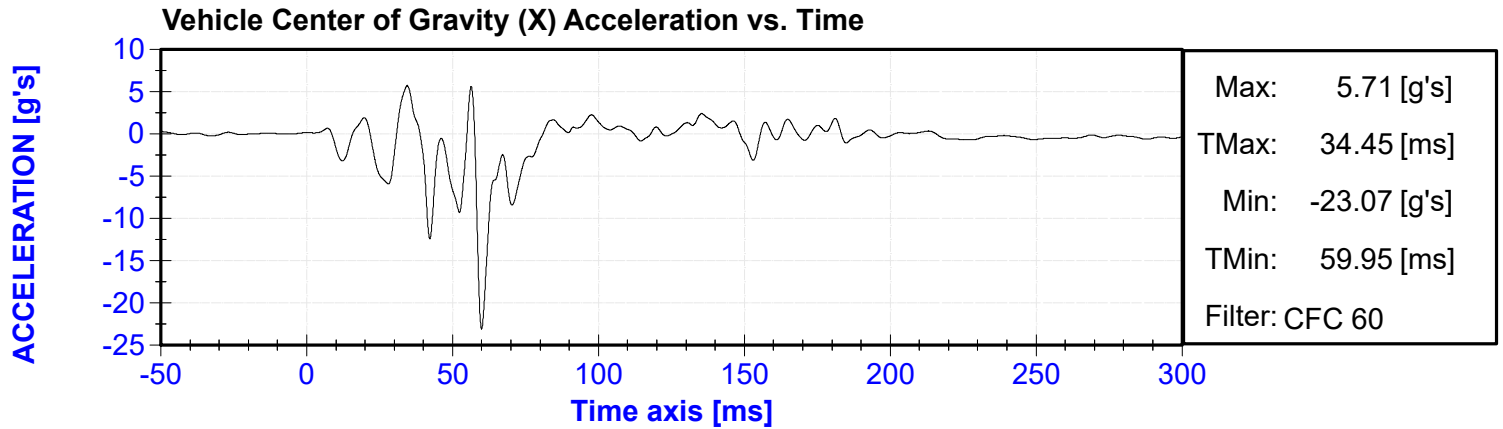


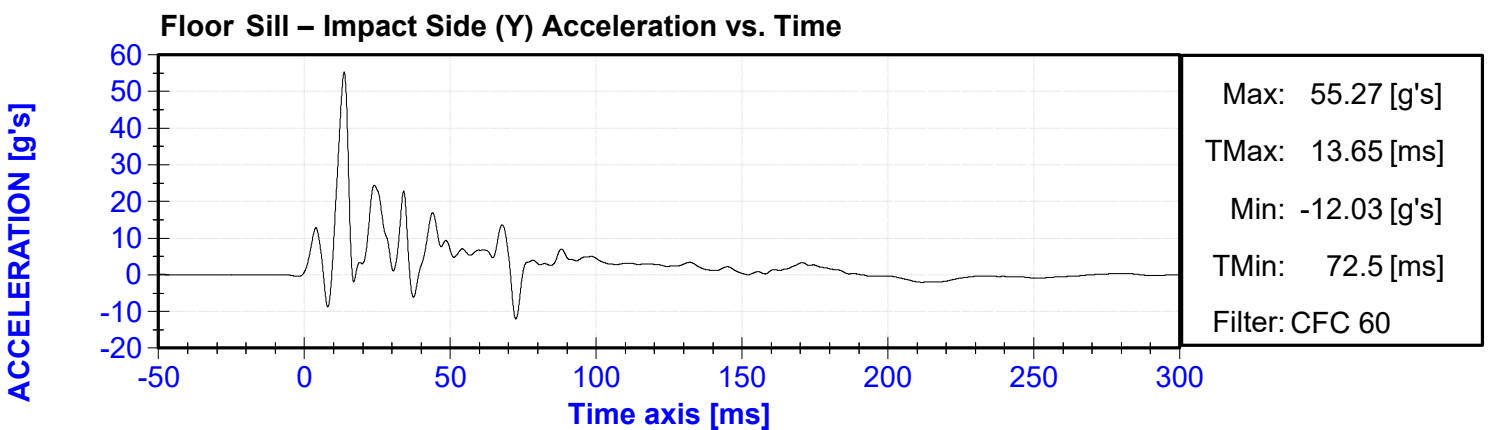
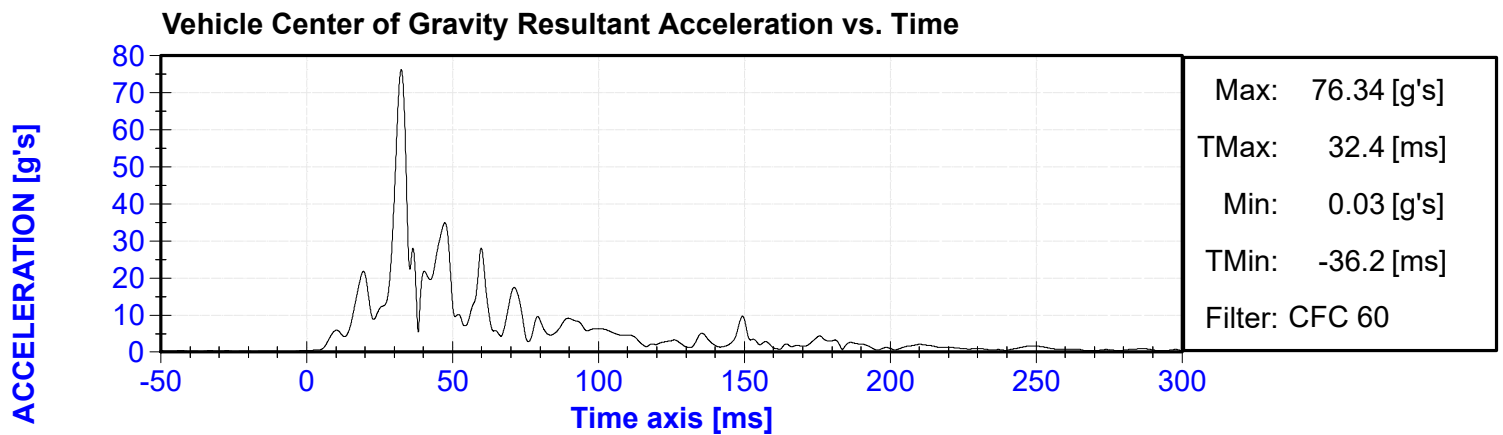
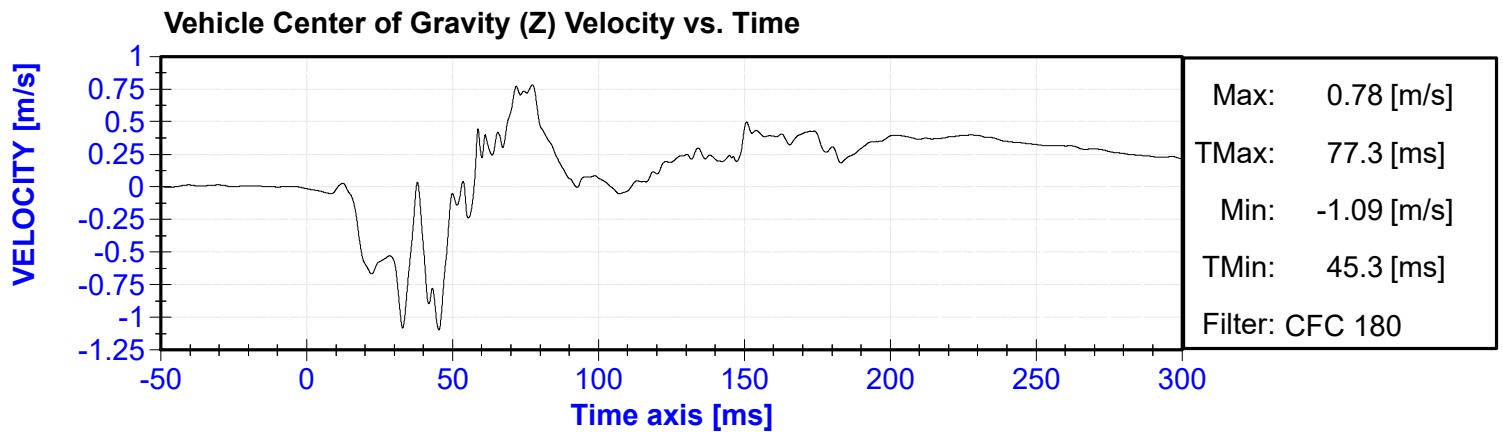
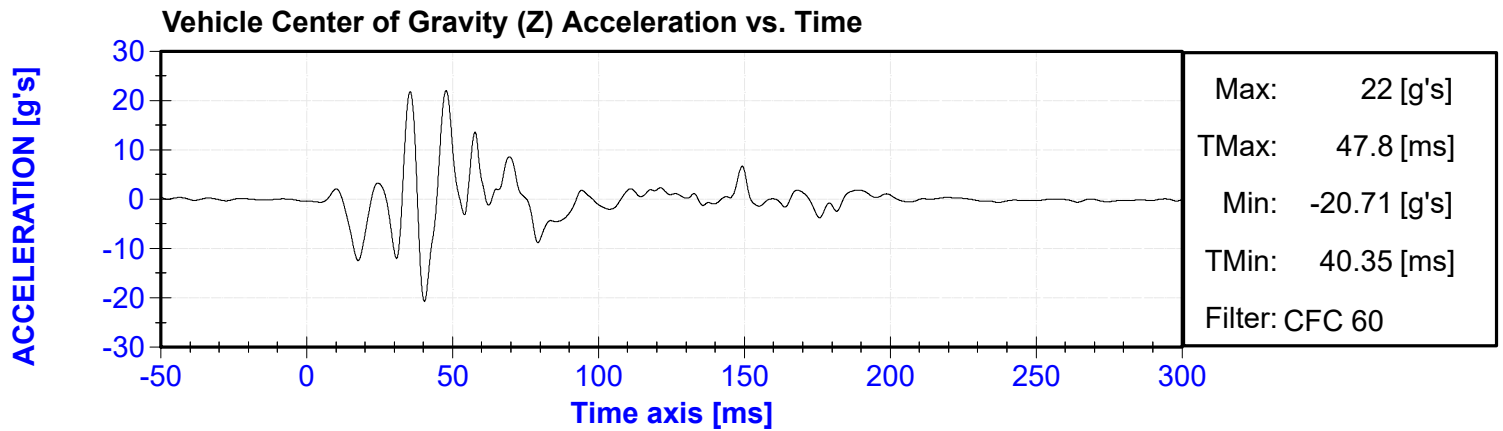


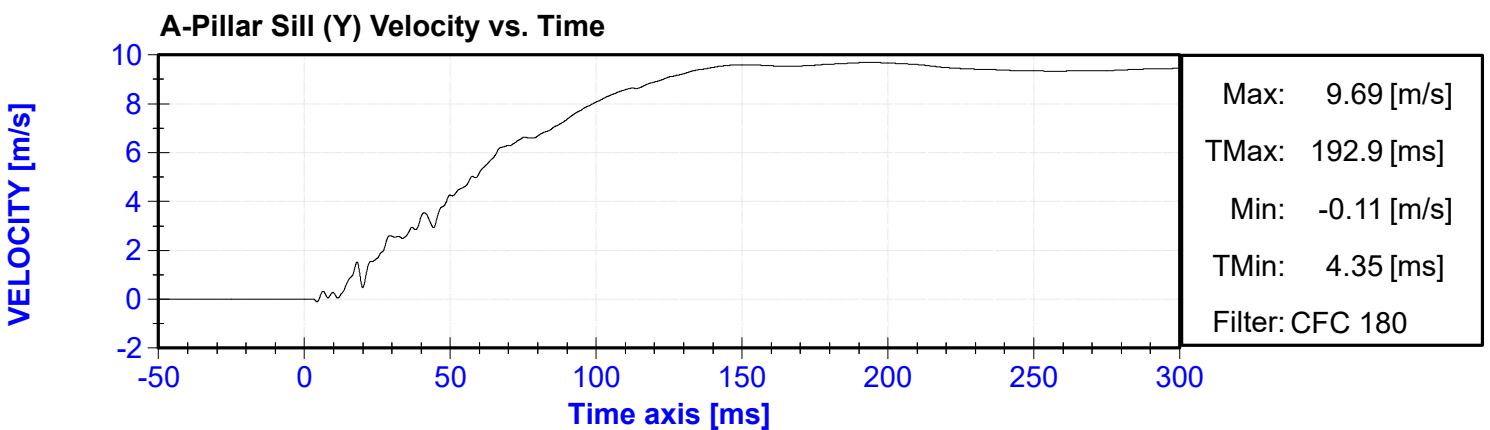
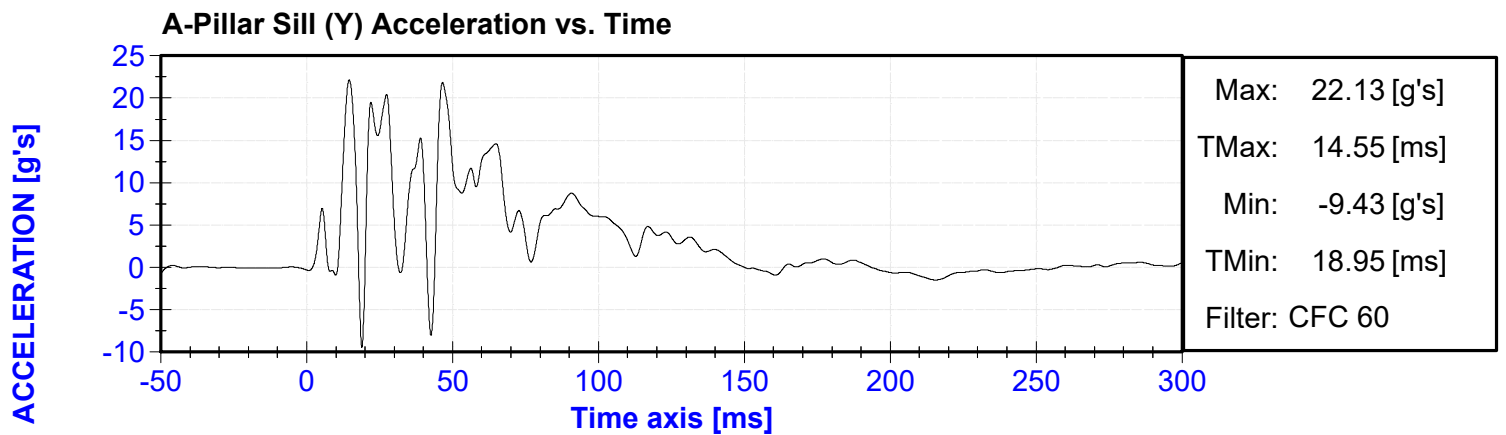
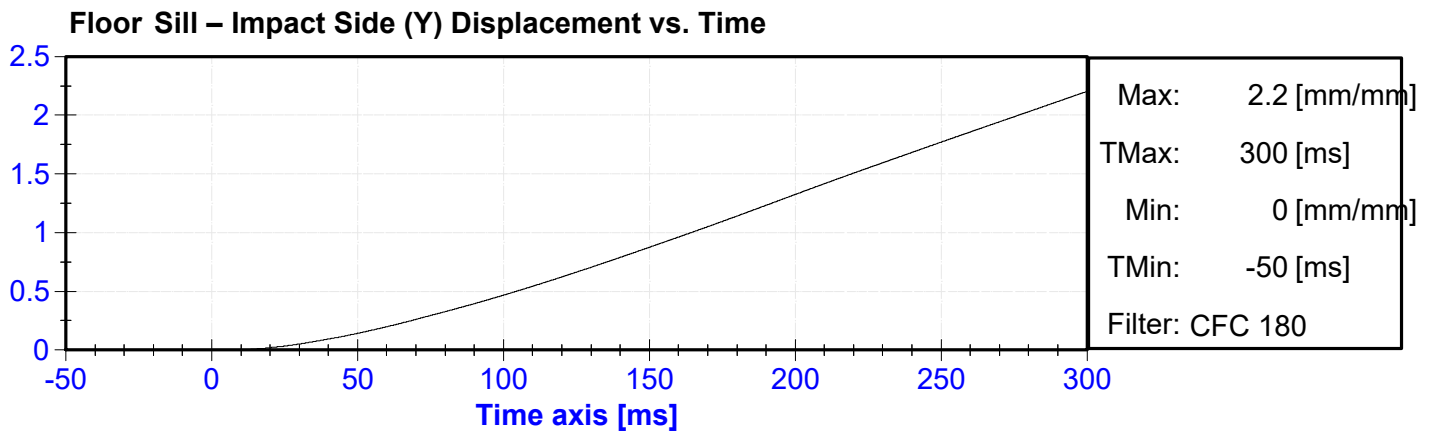
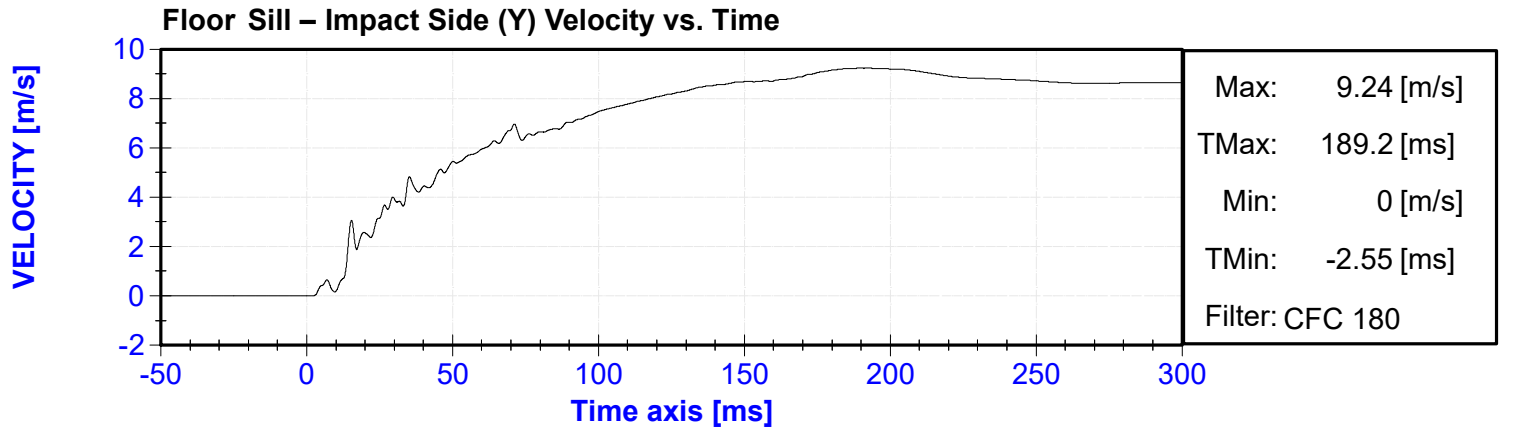
Data Traces
VEHICLE & DUMMY RESPONSE DATA TRACES

Table of Data Plots

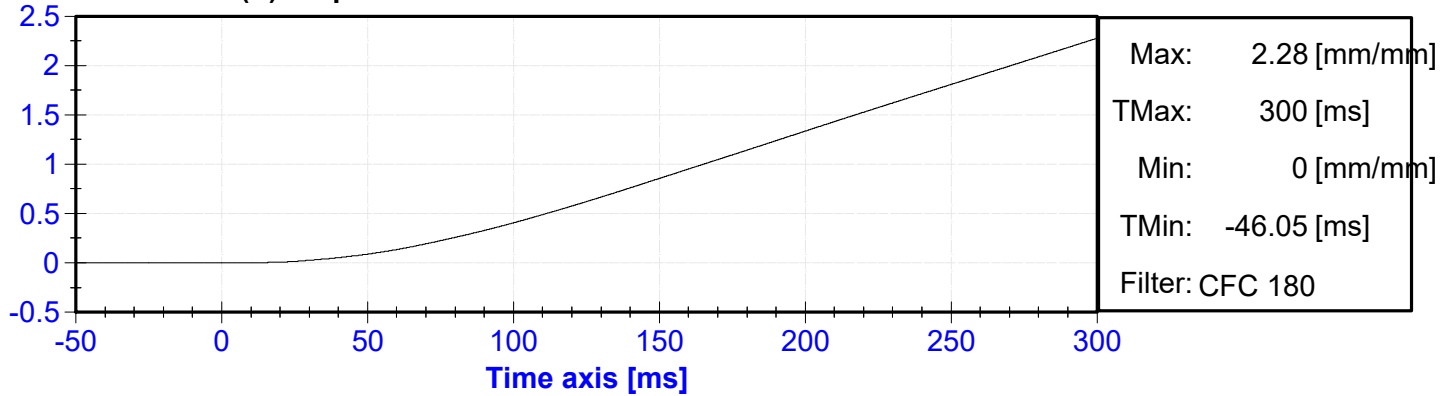
No.	Description	Page
1	Vehicle Center of Gravity (X) Acceleration vs. Time	B-3
2	Vehicle Center of Gravity (X) Velocity vs. Time	B-3
3	Vehicle Center of Gravity (Y) Acceleration vs. Time	B-3
4	Vehicle Center of Gravity (Y) Velocity vs. Time	B-3
5	Vehicle Center of Gravity (Z) Acceleration vs. Time	B-4
6	Vehicle Center of Gravity (Z) Velocity vs. Time	B-4
7	Vehicle Center of Gravity Resultant Acceleration vs. Time	B-4
8	Floor Sill – Impact Side (Y) Acceleration vs. Time	B-4
9	Floor Sill – Impact Side (Y) Velocity vs. Time	B-5
10	Floor Sill – Impact Side (Y) Displacement vs. Time	B-5
11	A-Pillar Sill (Y) Acceleration vs. Time	B-5
12	A-Pillar Sill (Y) Velocity vs. Time	B-5
13	A-Pillar Sill (Y) Displacement vs. Time	B-6
14	A-Pillar Low (Y) Acceleration vs. Time	B-6
15	A-Pillar Low (Y) Velocity vs. Time	B-6
16	A-Pillar Low (Y) Displacement vs. Time	B-6
17	A-Pillar Mid (Y) Acceleration vs. Time	B-7
18	A-Pillar Mid (Y) Velocity vs. Time	B-7
19	A-Pillar Mid (Y) Displacement vs. Time	B-7
20	B-Pillar Sill (Y) Acceleration vs. Time	B-7
21	B-Pillar Sill (Y) Velocity vs. Time	B-8
22	B-Pillar Sill (Y) Displacement vs. Time	B-8
23	B-Pillar Low (Y) Acceleration vs. Time	B-8
24	B-Pillar Low (Y) Velocity vs. Time	B-8
25	B-Pillar Low (Y) Displacement vs. Time	B-9
26	B-Pillar Mid (Y) Acceleration vs. Time	B-9
27	B-Pillar Mid (Y) Velocity vs. Time	B-9
28	B-Pillar Mid (Y) Displacement vs. Time	B-9
29	Seat (Y) Acceleration vs. Time	B-10
30	Seat (Y) Velocity vs. Time	B-10
31	Seat (Y) Displacement vs. Time	B-10
32	Engine (X) Acceleration vs. Time	B-10
33	Engine (X) Velocity vs. Time	B-11
34	Engine (Y) Acceleration vs. Time	B-11
35	Engine (Y) Velocity vs. Time	B-11
36	Firewall (Y) Acceleration vs. Time	B-11
37	Firewall (Y) Velocity vs. Time	B-12
38	Roof (Y) Acceleration vs. Time	B-12
39	Roof (Y) Velocity vs. Time	B-12
40	Floor Sill – Non Impact Side (Y) Acceleration vs. Time	B-12
41	Floor Sill – Non Impact Side (Y) Velocity vs. Time	B-13
42	Rear Deck (X) Acceleration vs. Time	B-13
43	Rear Deck (X) Velocity vs. Time	B-13
44	Rear Deck (Y) Acceleration vs. Time	B-13
45	Rear Deck (Y) Velocity vs. Time	B-14



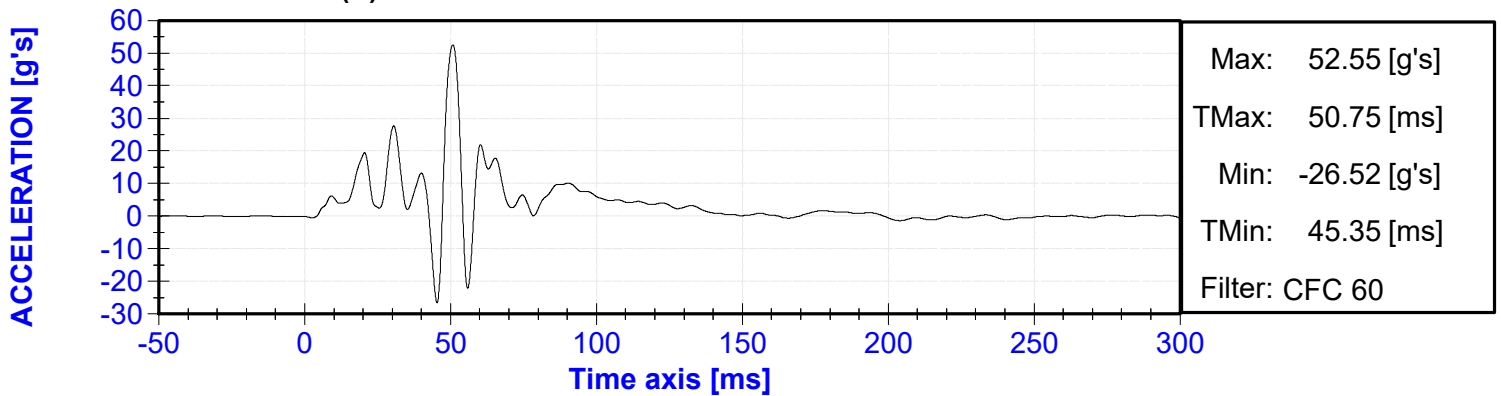




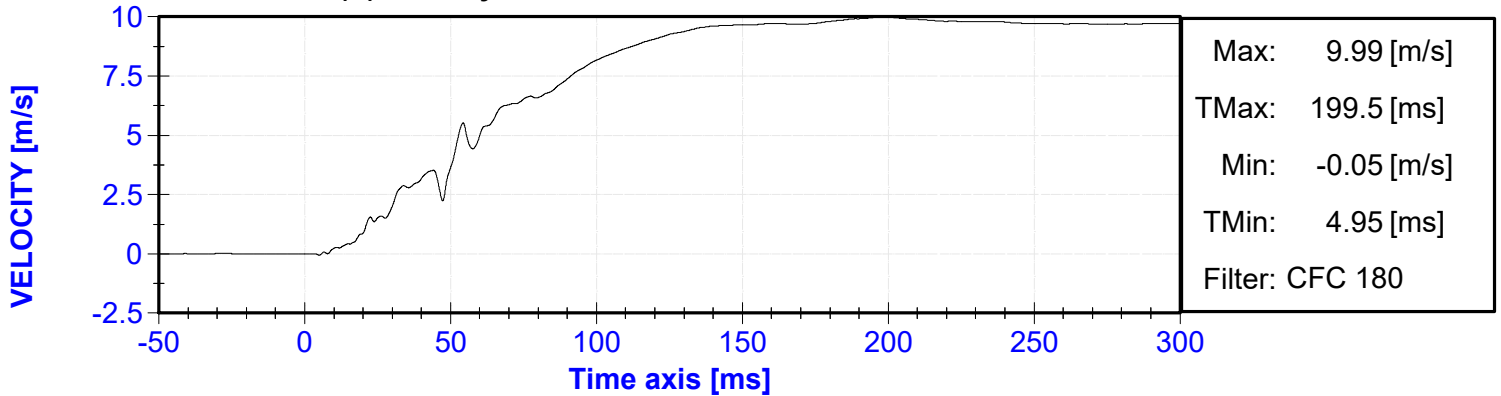
A-Pillar Sill (Y) Displacement vs. Time



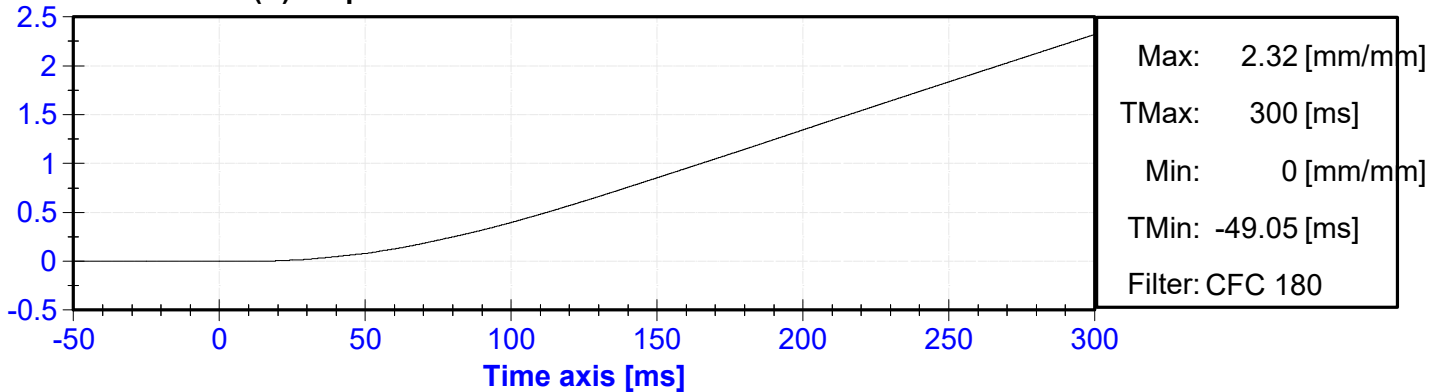
A-Pillar Low (Y) Acceleration vs. Time

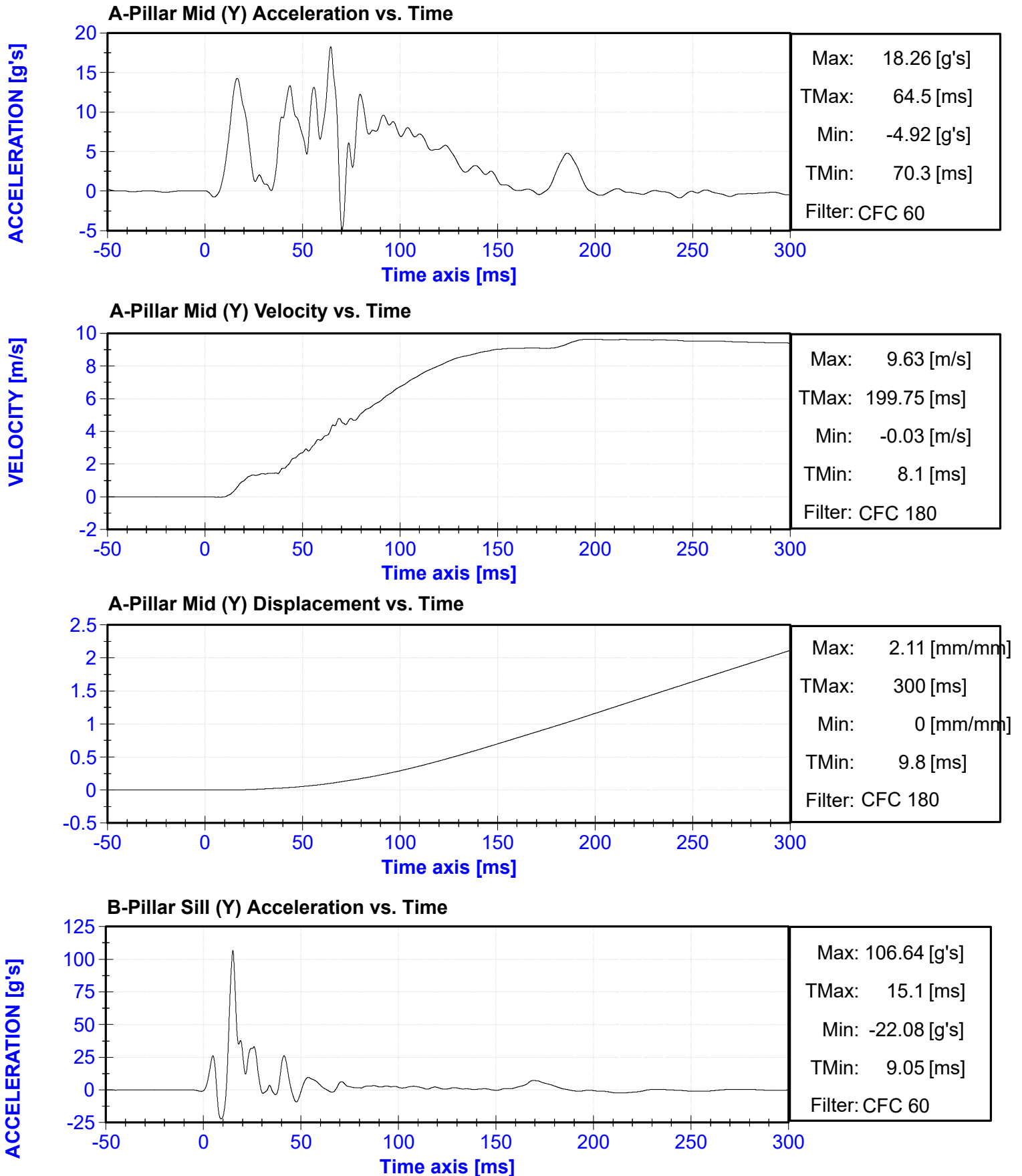


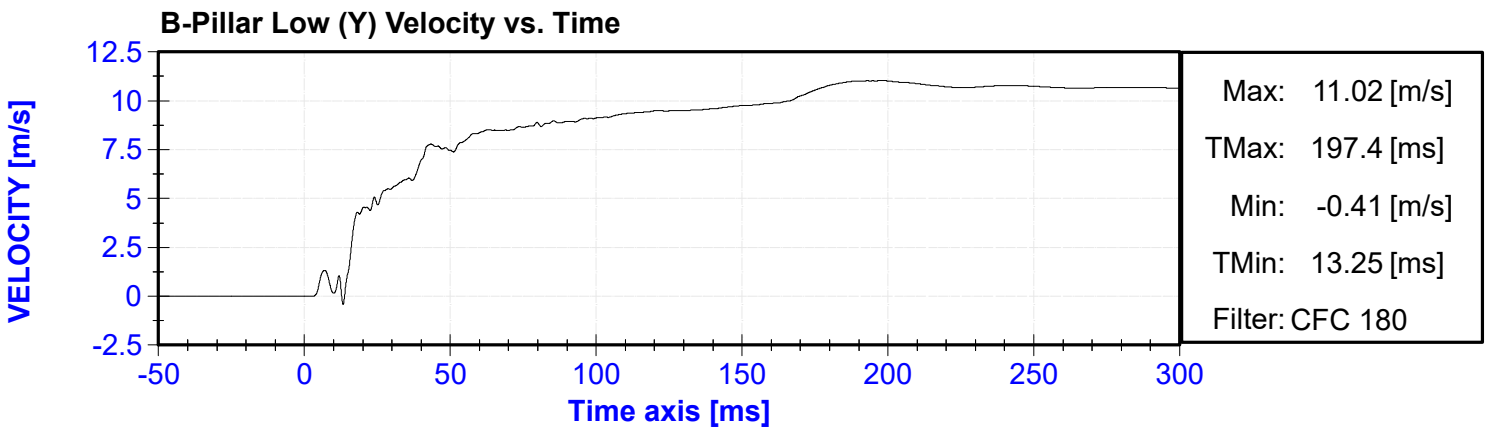
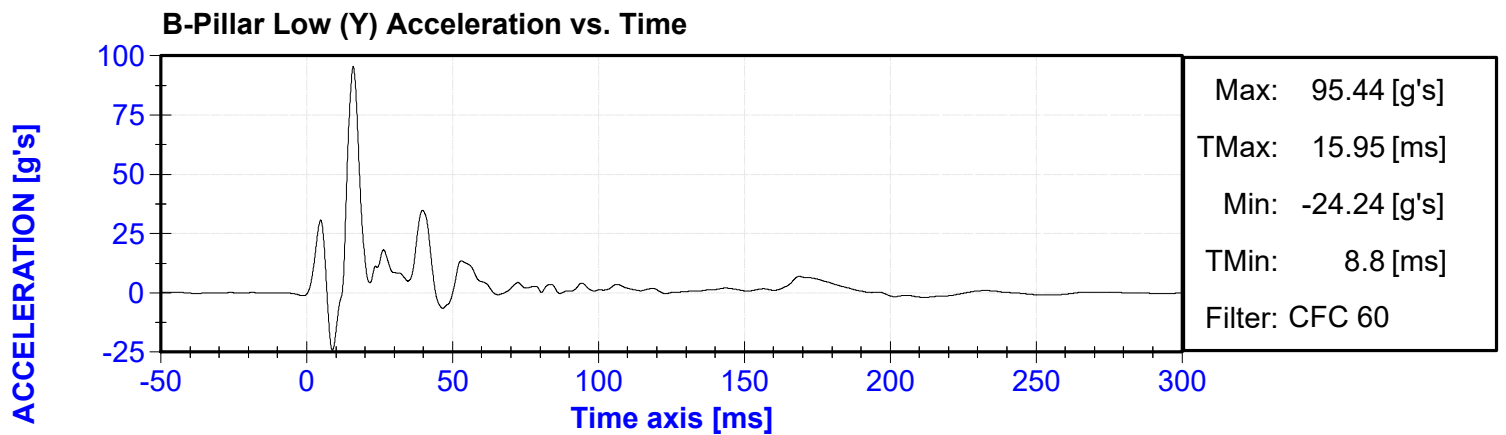
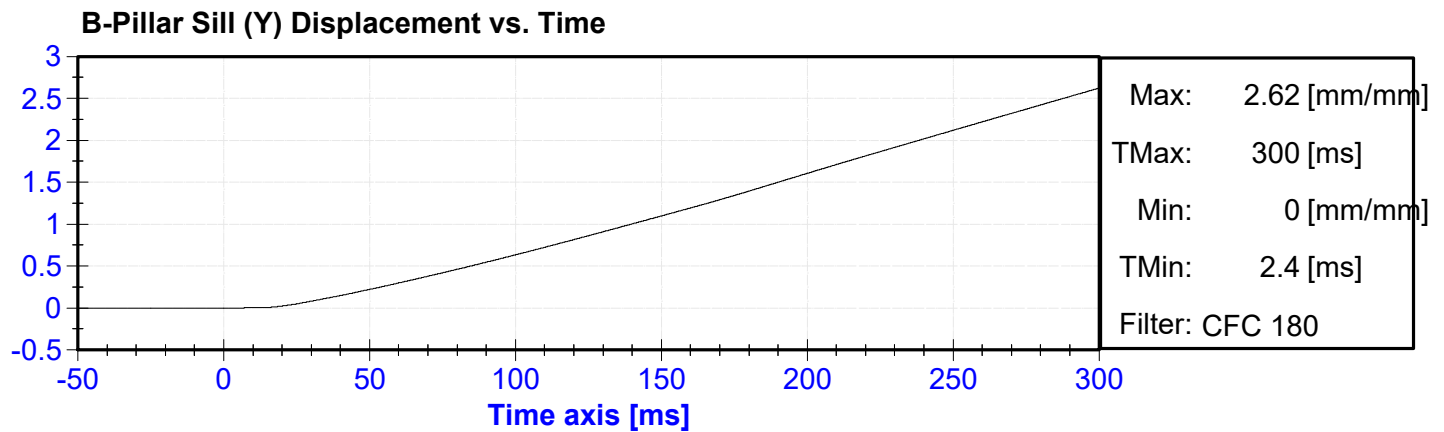
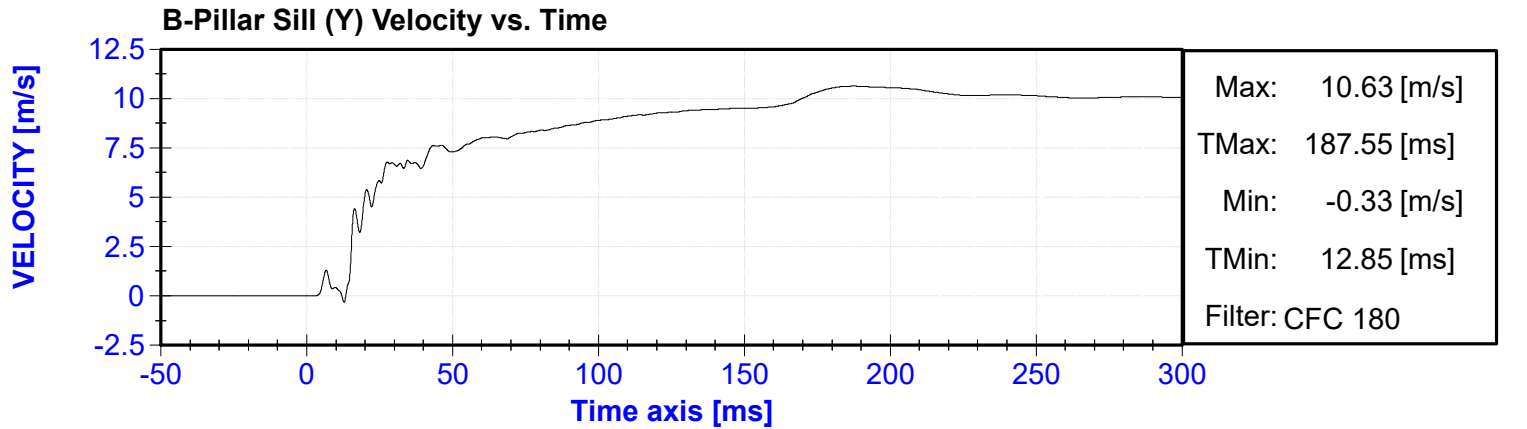
A-Pillar Low (Y) Velocity vs. Time



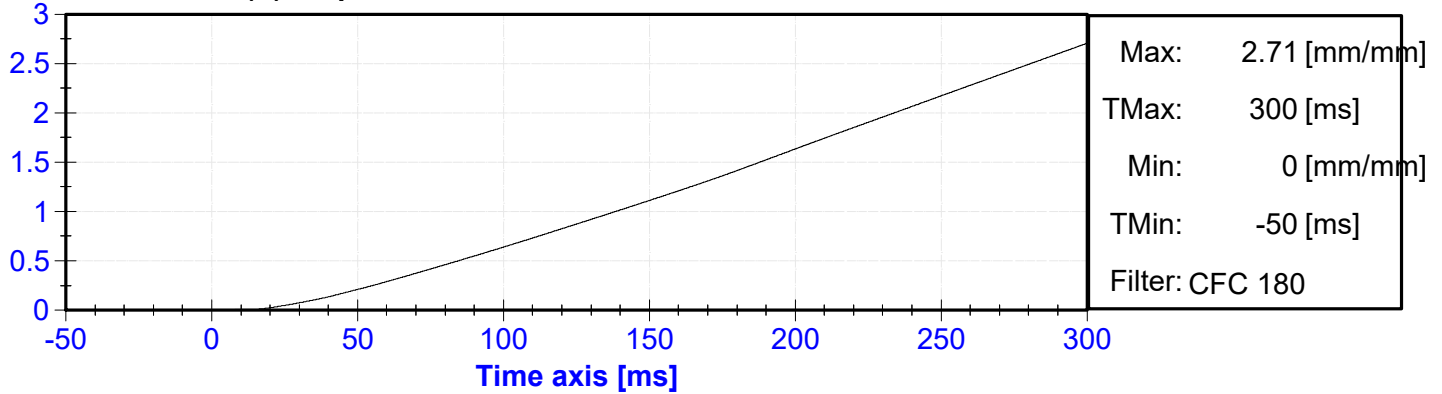
A-Pillar Low (Y) Displacement vs. Time



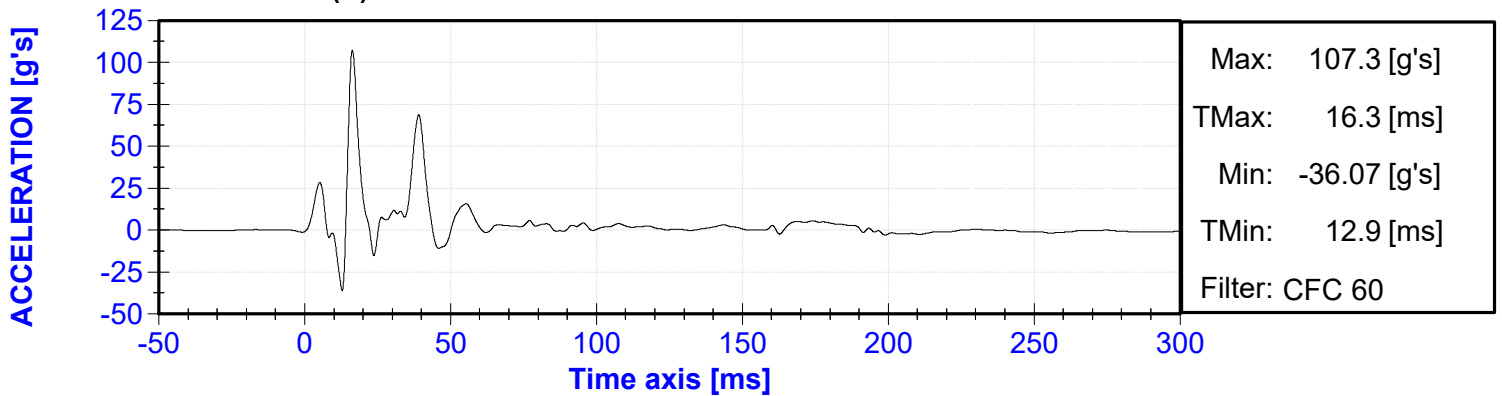




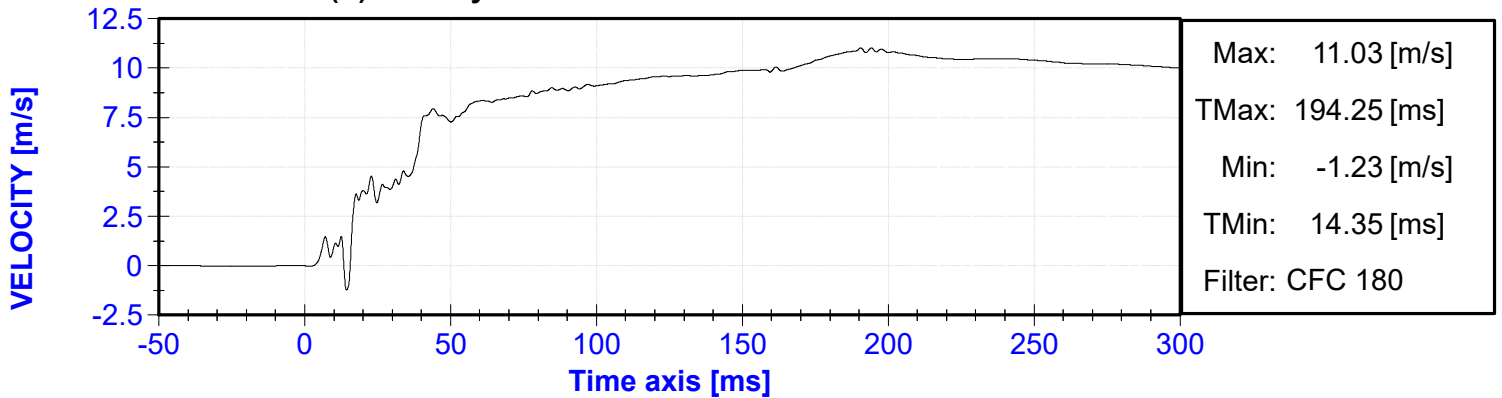
B-Pillar Low (Y) Displacement vs. Time



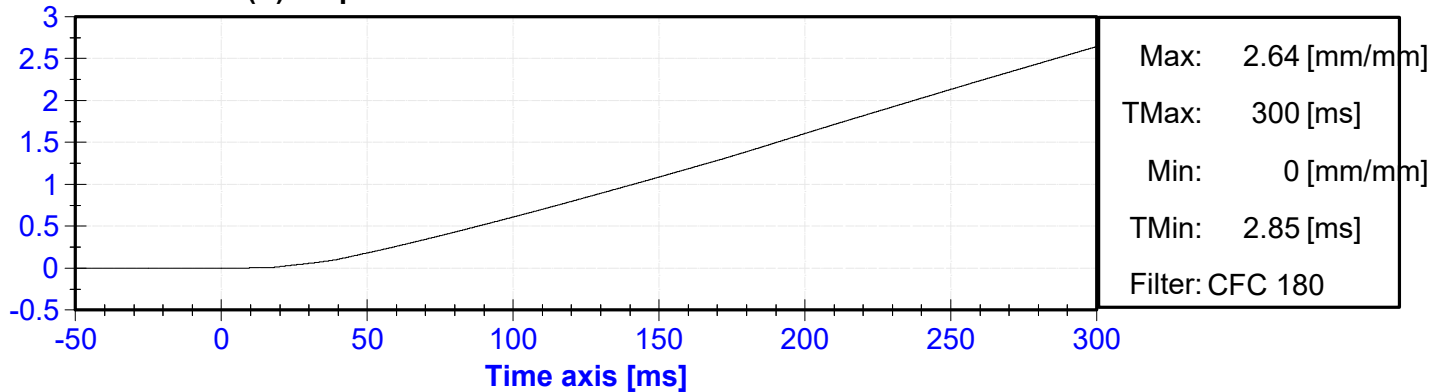
B-Pillar Mid (Y) Acceleration vs. Time

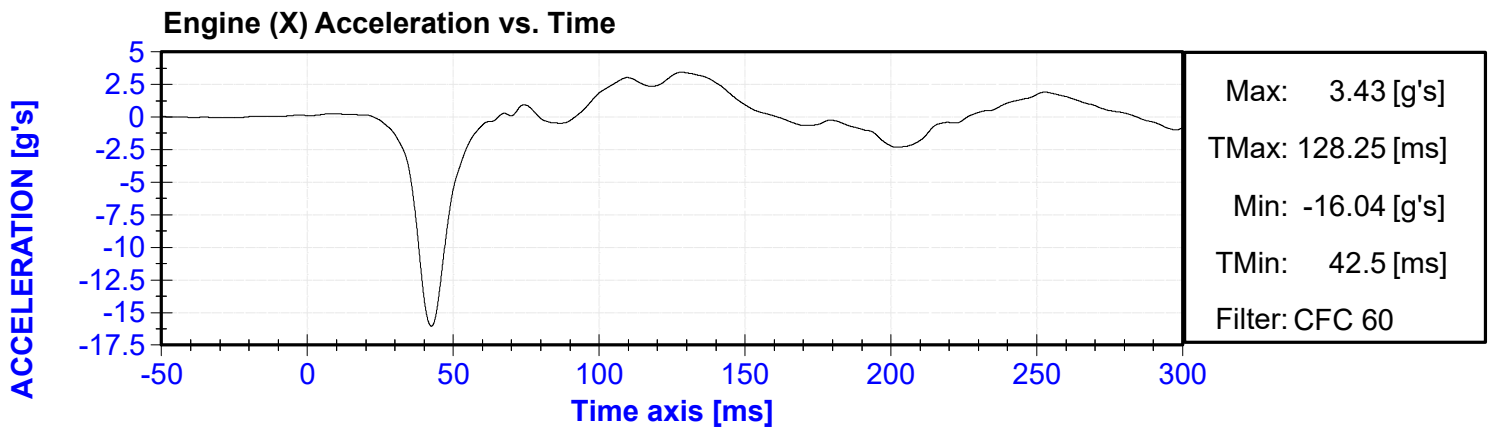
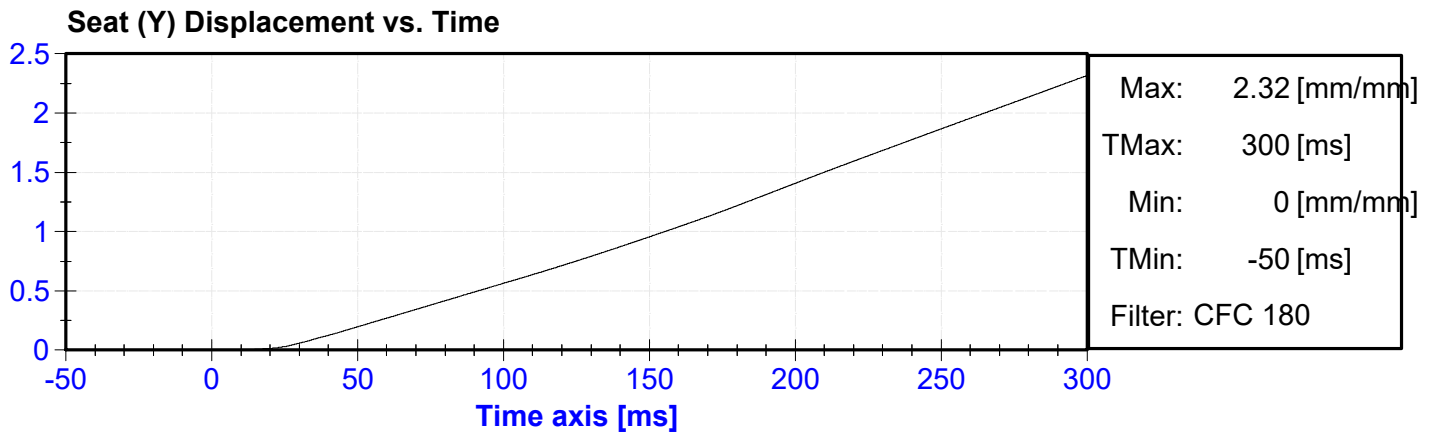
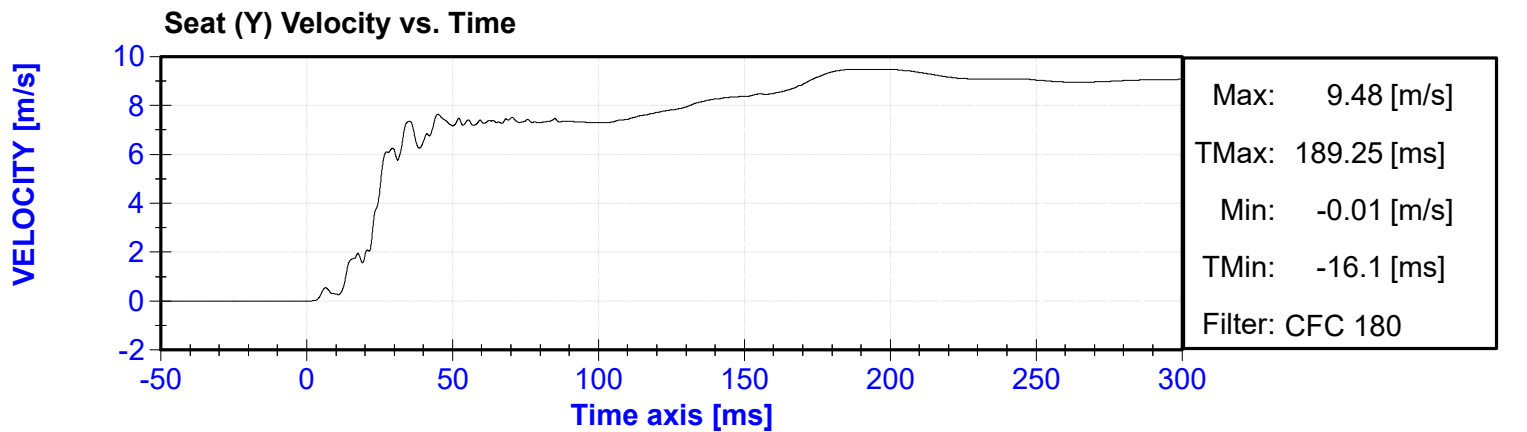
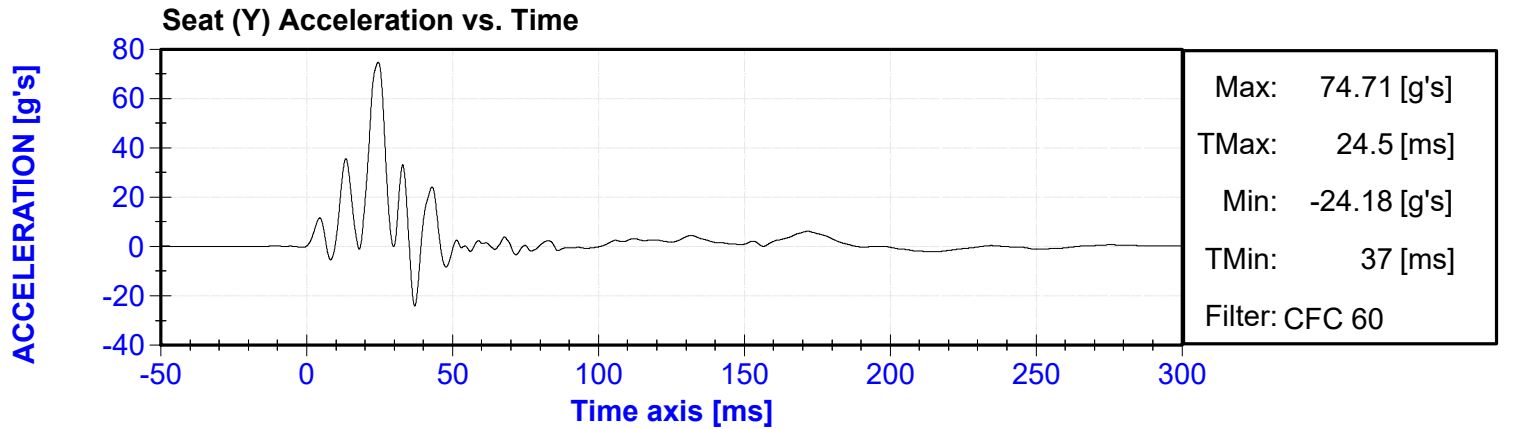


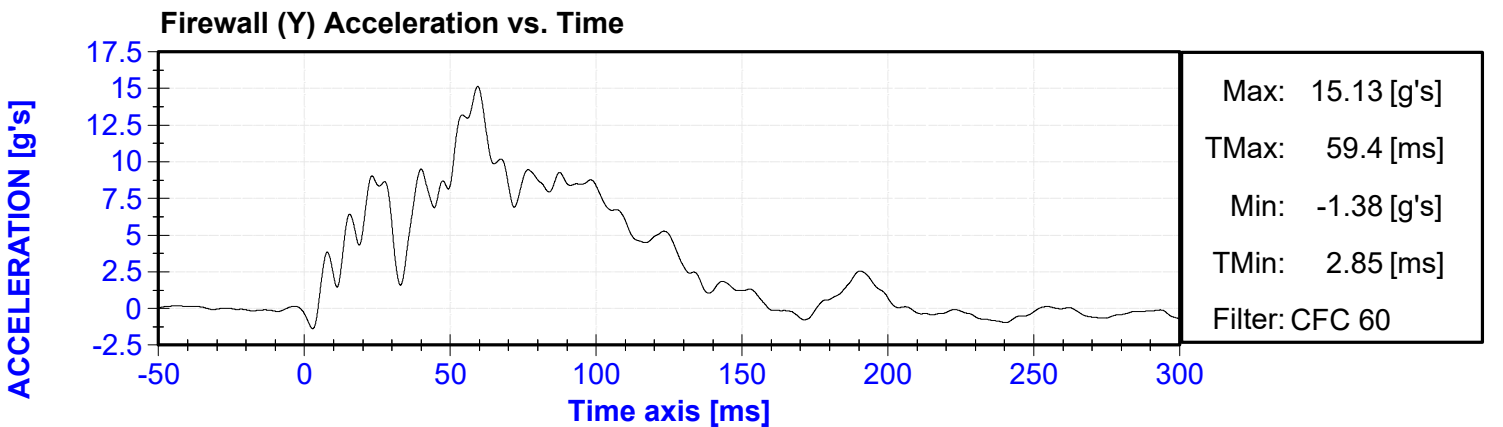
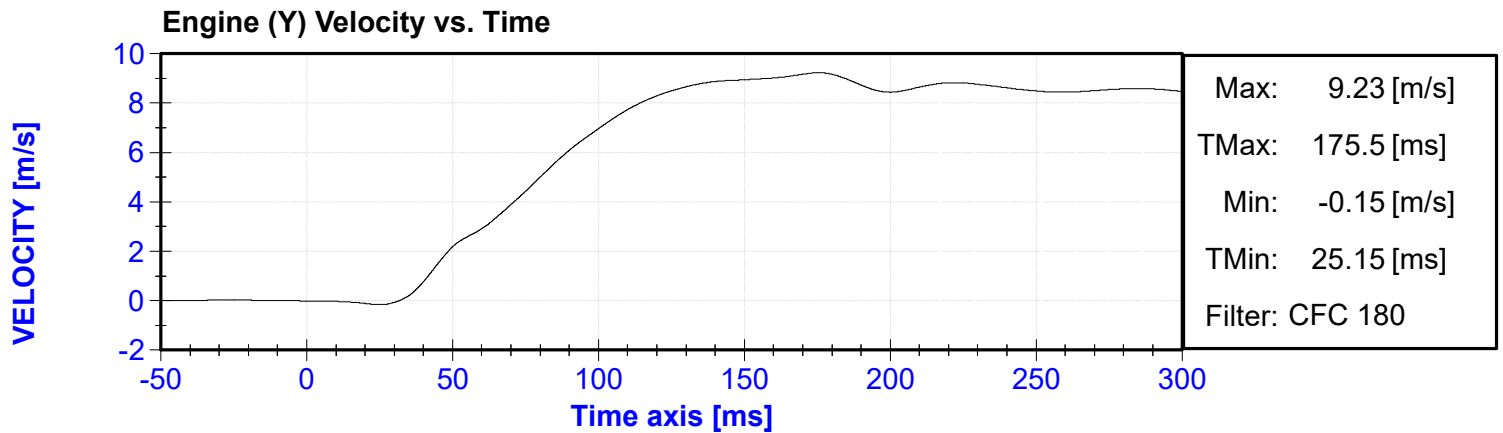
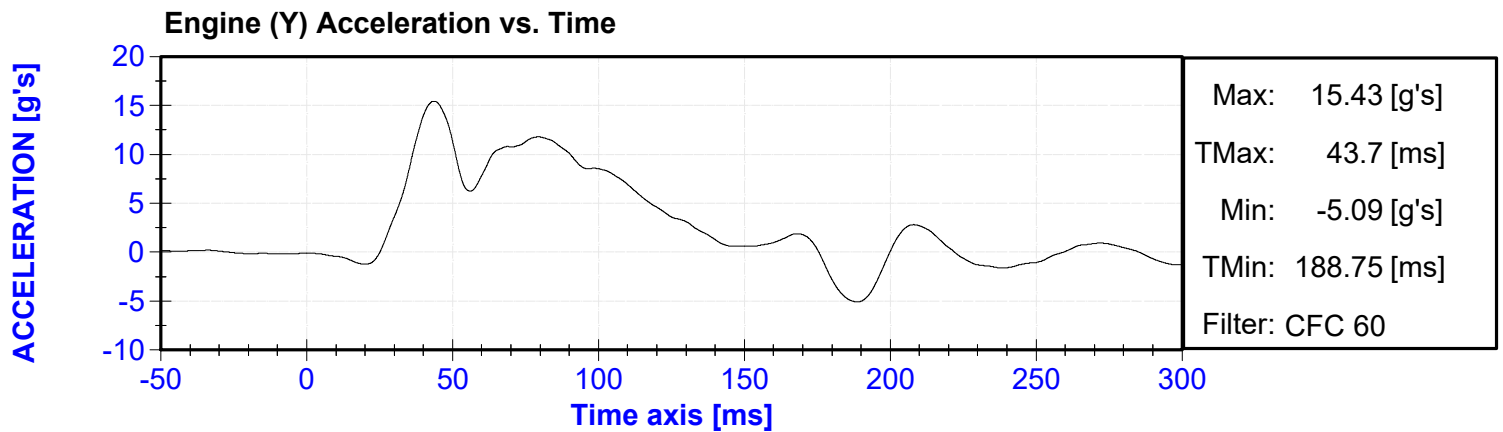
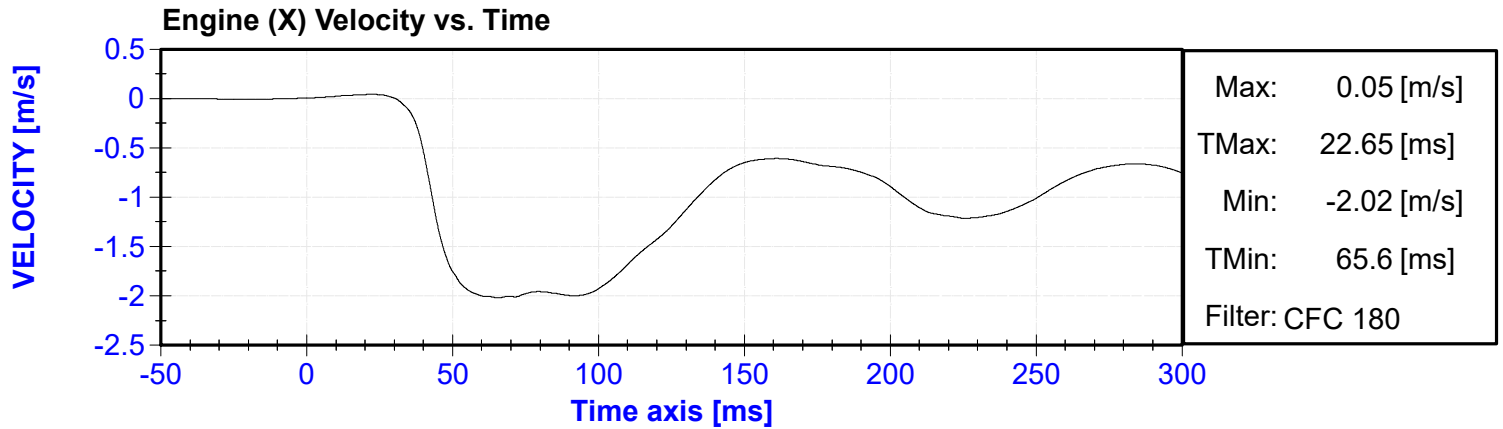
B-Pillar Mid (Y) Velocity vs. Time



B-Pillar Mid (Y) Displacement vs. Time

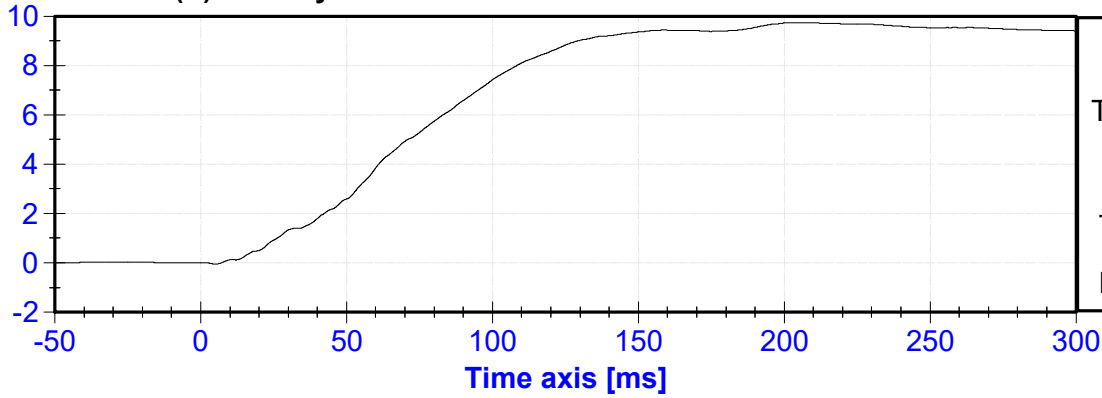






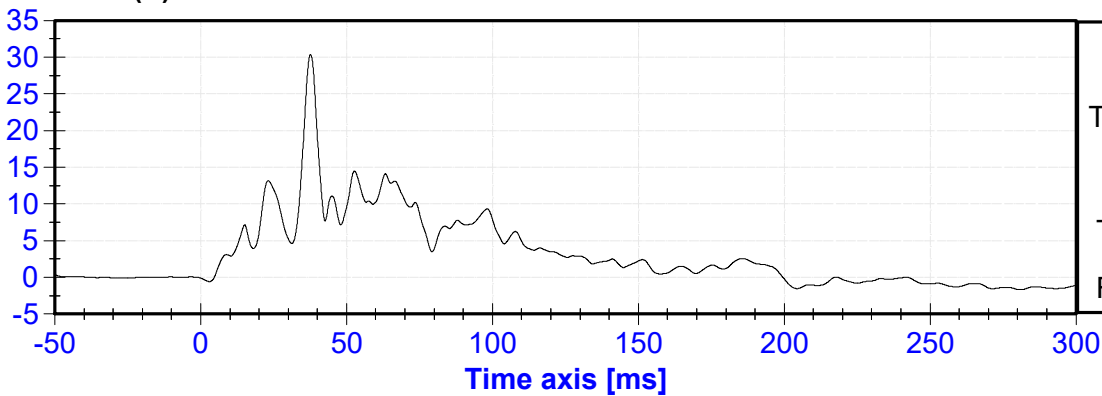
VELOCITY [m/s]

Firewall (Y) Velocity vs. Time



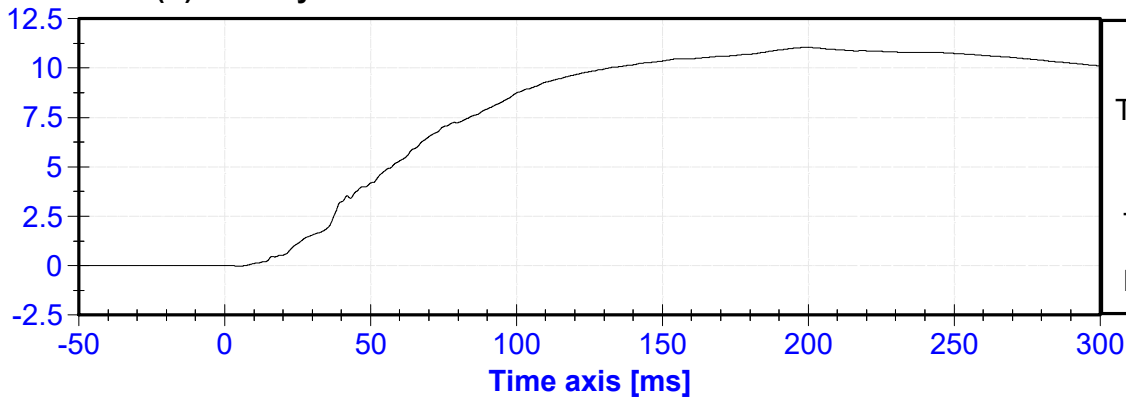
ACCELERATION [g's]

Roof (Y) Acceleration vs. Time



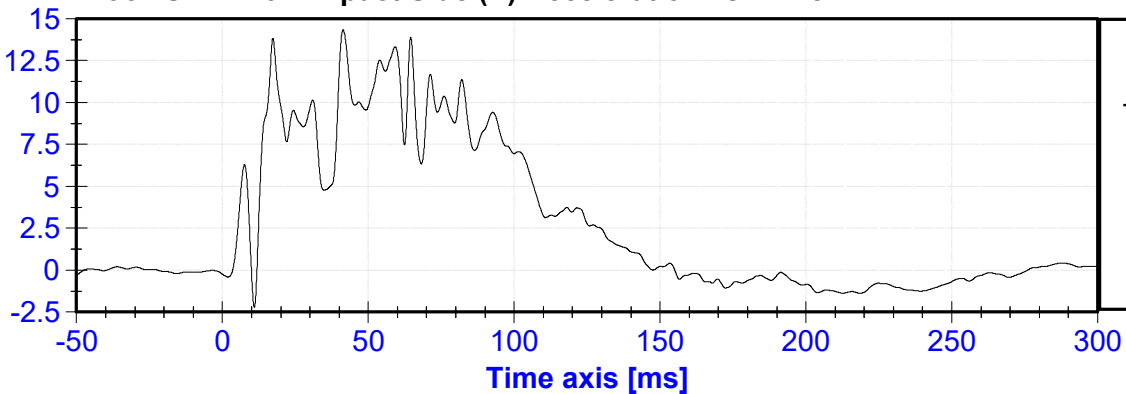
VELOCITY [m/s]

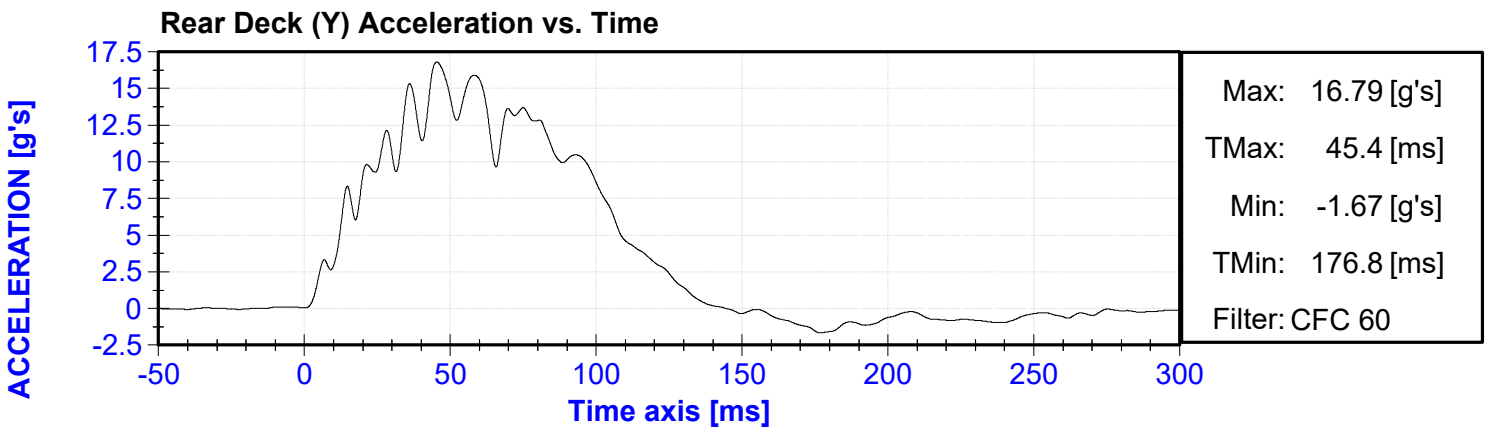
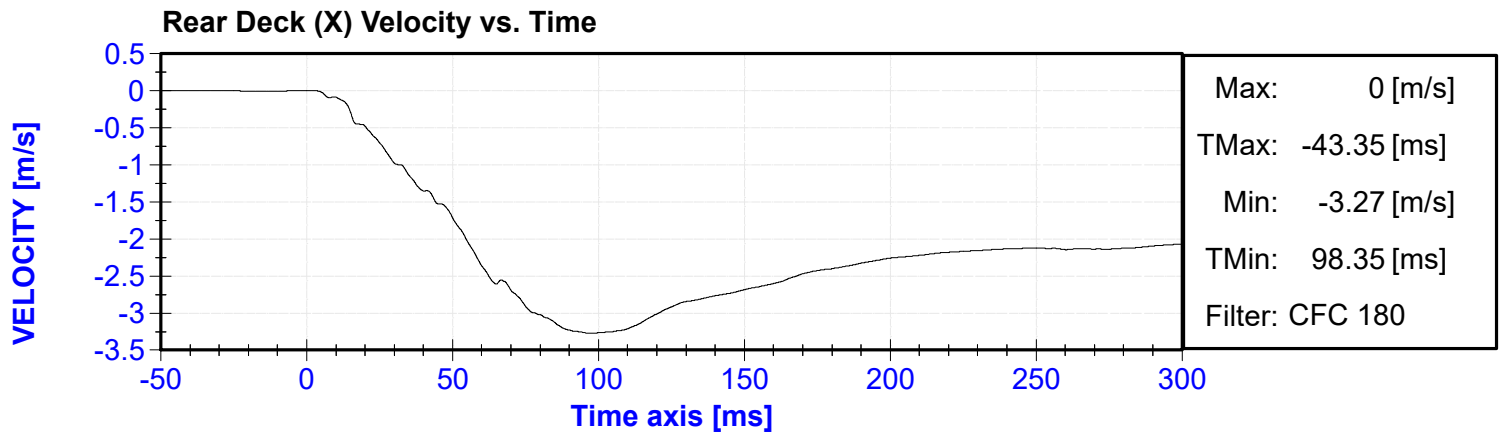
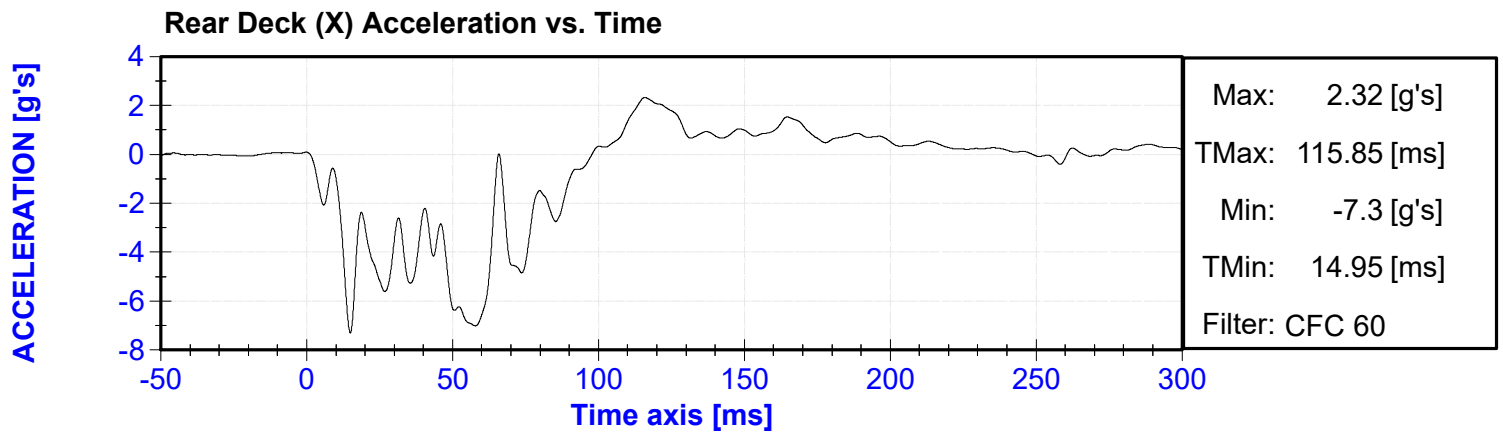
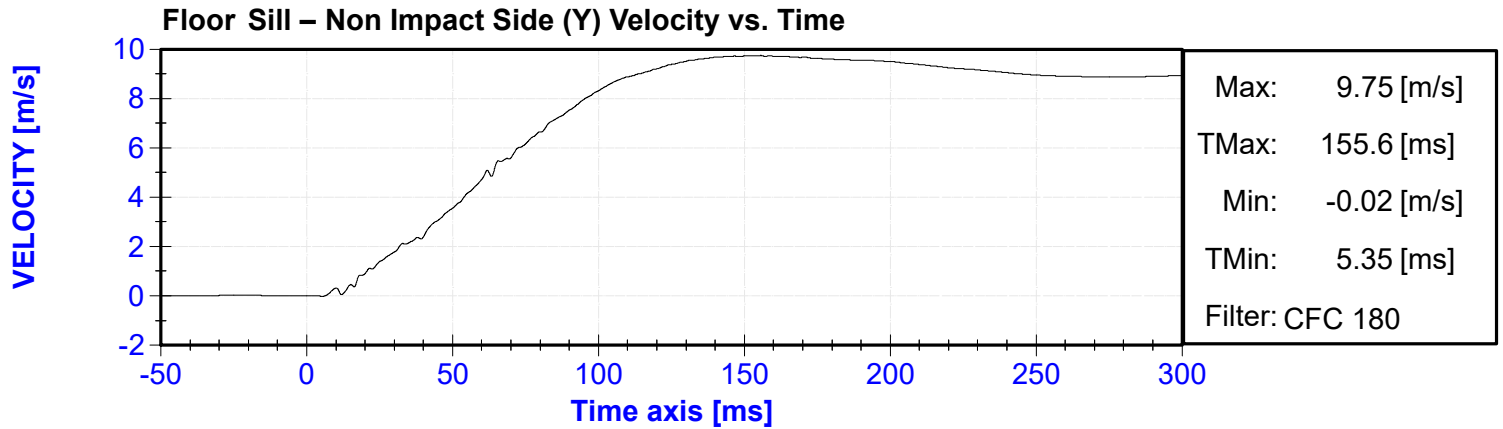
Roof (Y) Velocity vs. Time

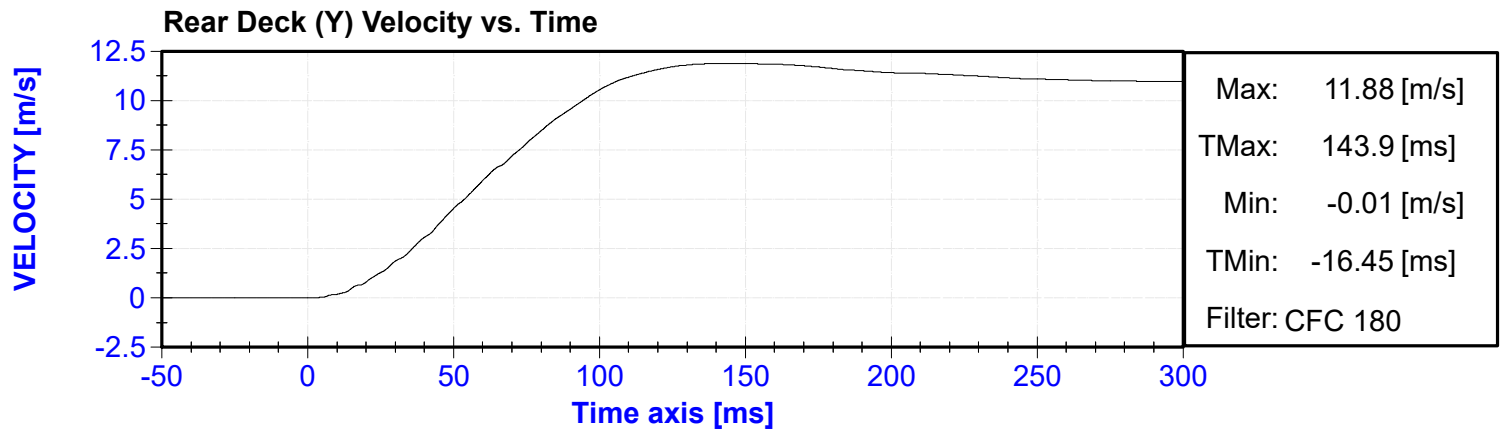


ACCELERATION [g's]

Floor Sill – Non Impact Side (Y) Acceleration vs. Time







APPENDIX IV

PRE-TEST DUMMY PERFORMANCE CALIBRATION TEST DATA

(Subpart U, ES-2re)

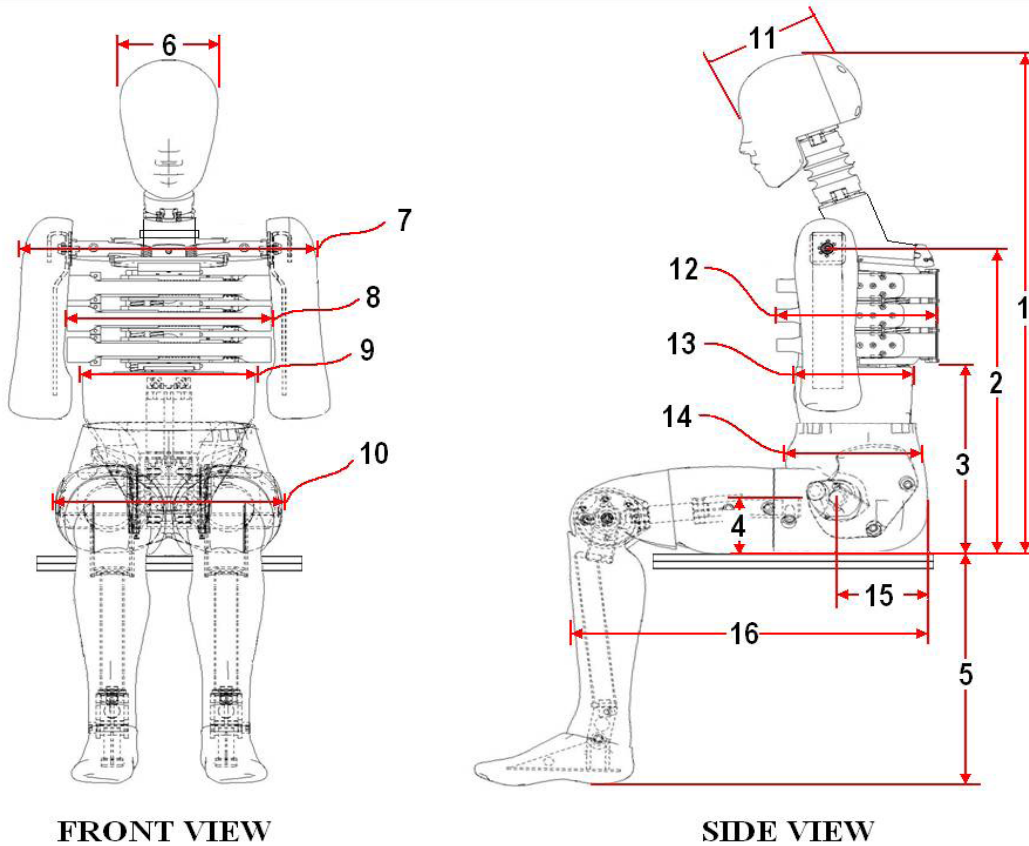


External Measurements - EuroSID-2re

Technician: J. Rios

Date: 7/30/2025

Dummy Serial Number: DG5348



FRONT VIEW

SIDE VIEW

Dim. No.	Description	Specification (mm)		Result (mm)	Pass/Fail
1	Sitting Height	900	918	912	Pass
2	Seat to Shoulder Joint	558	572	559	Pass
3	Seat to Lower Face of Thoracic Spine Box	346	356	350	Pass
4	Seat to Hip Joint (center of bolt)	97	103	103	Pass
5	Sole to Seat, Sitting	333	451	421	Pass
6	Head Width	152	158	154	Pass
7	Shoulder/Arm Width	461	479	468	Pass
8	Thorax Width	322	332	326	Pass
9	Abdomen Width	273	287	278	Pass
10	Pelvis Lap Width	359	373	365	Pass
11	Head Depth	196	206	202	Pass
12	Thorax Depth	262	272	268	Pass
13	Abdomen Depth	194	204	201	Pass
14	Pelvis Depth	235	245	241	Pass
15	Back of Buttocks to Hip Joint (center of bolt)	150	160	155	Pass
16	Back of Buttocks to Front Knee	597	615	601	Pass

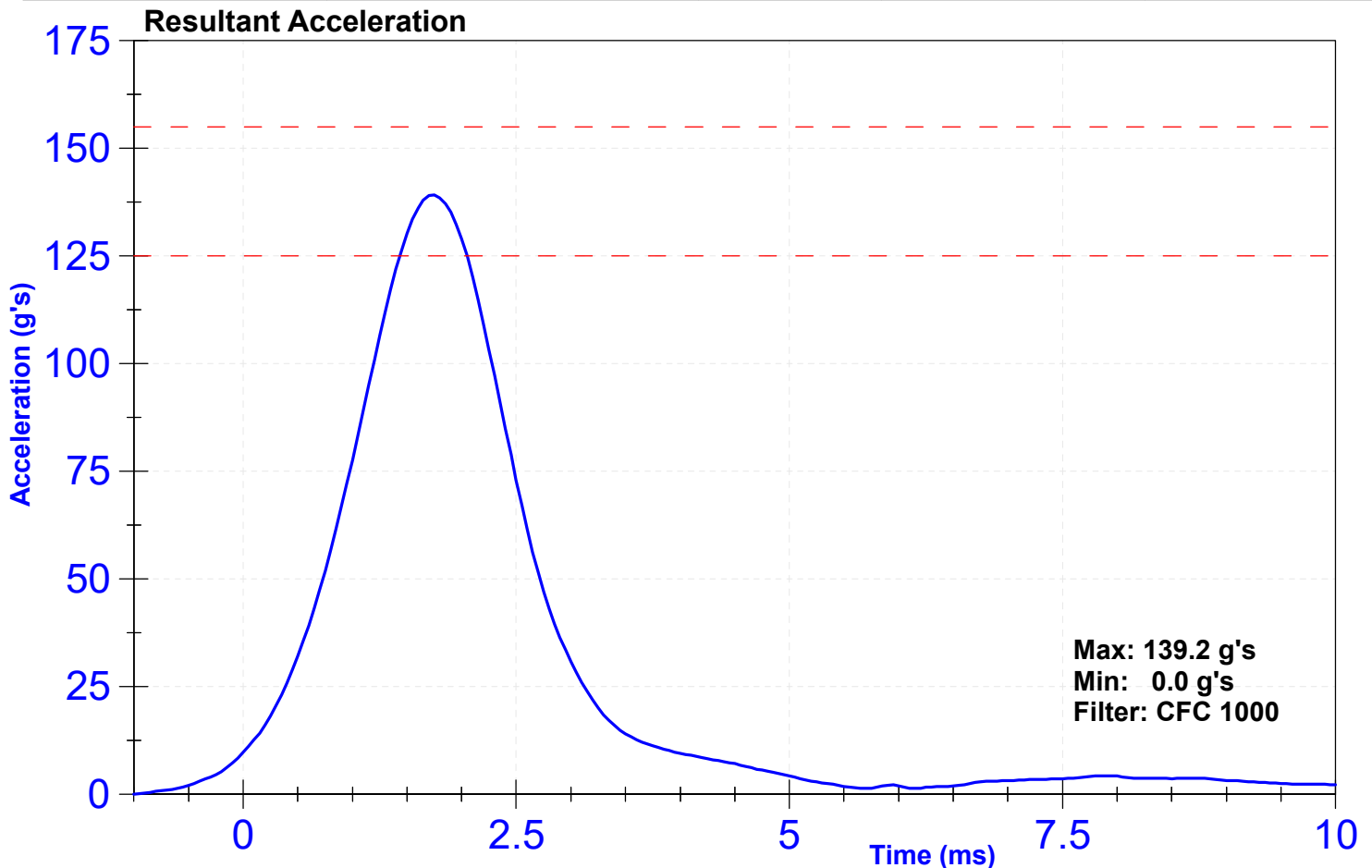
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

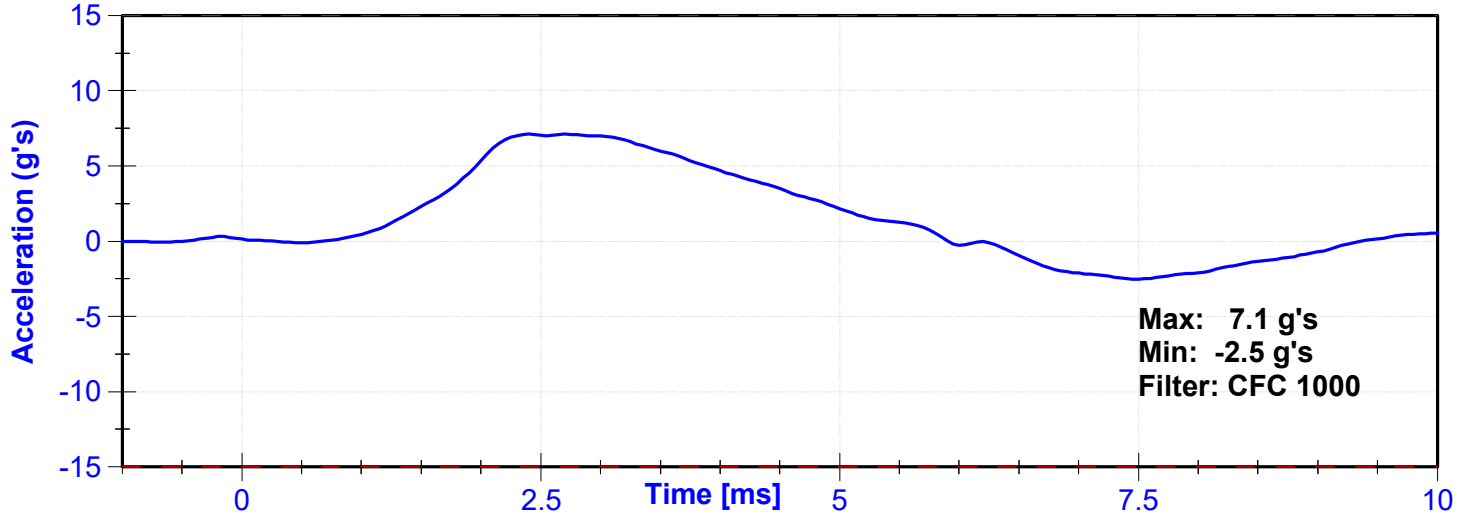
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.1	Pass
Humidity	10	70	%	52	Pass
Resultant Acceleration	125	155	g's	139.2	Pass
Oscillation	0	15	%	3.11	Pass
Fore-Aft Acceleration	-15	15	g's	7.1	Pass

Transducer Calibrations

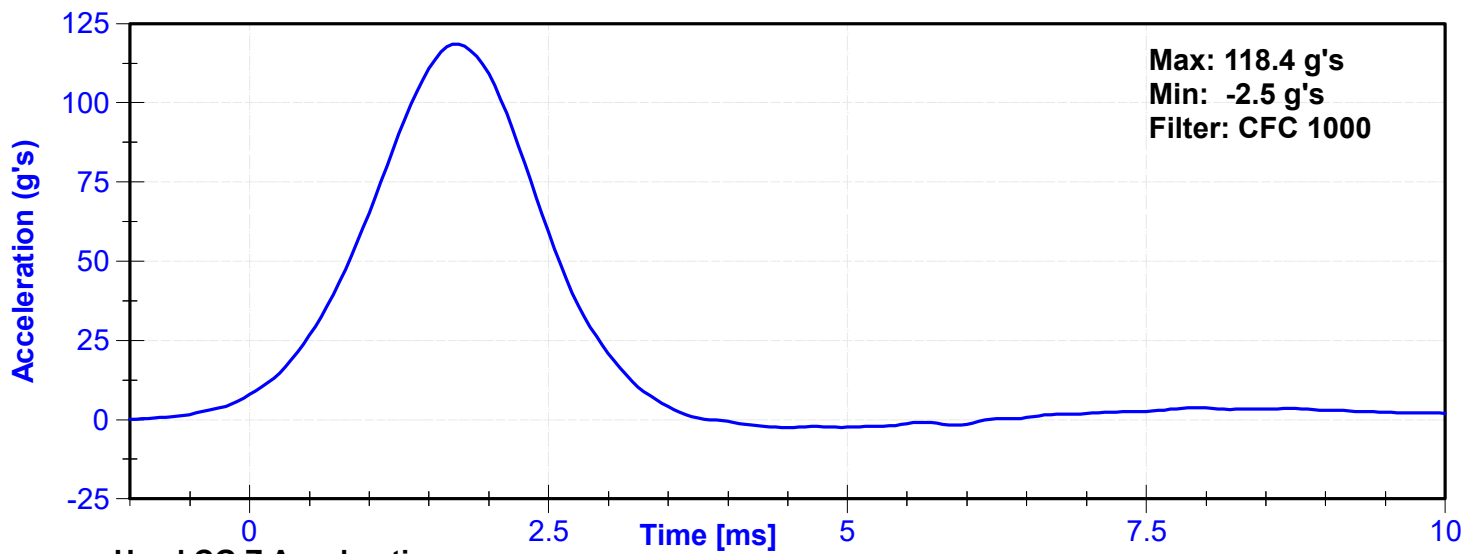
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
X Accelerometer	Endevco	18613	6/11/2025	12/8/2025
Y Accelerometer	Endevco	18472	6/11/2025	12/8/2025
Z Accelerometer	Endevco	18663	6/11/2025	12/8/2025



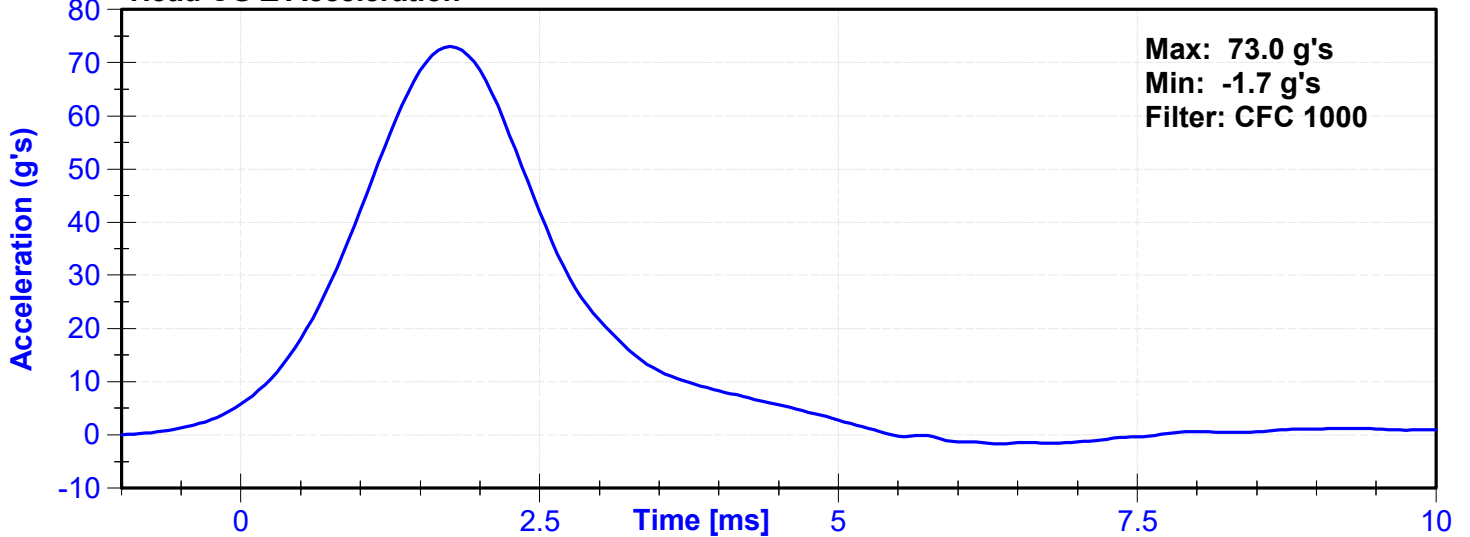
Head CG X Acceleration



Head CG Y Acceleration



Head CG Z Acceleration



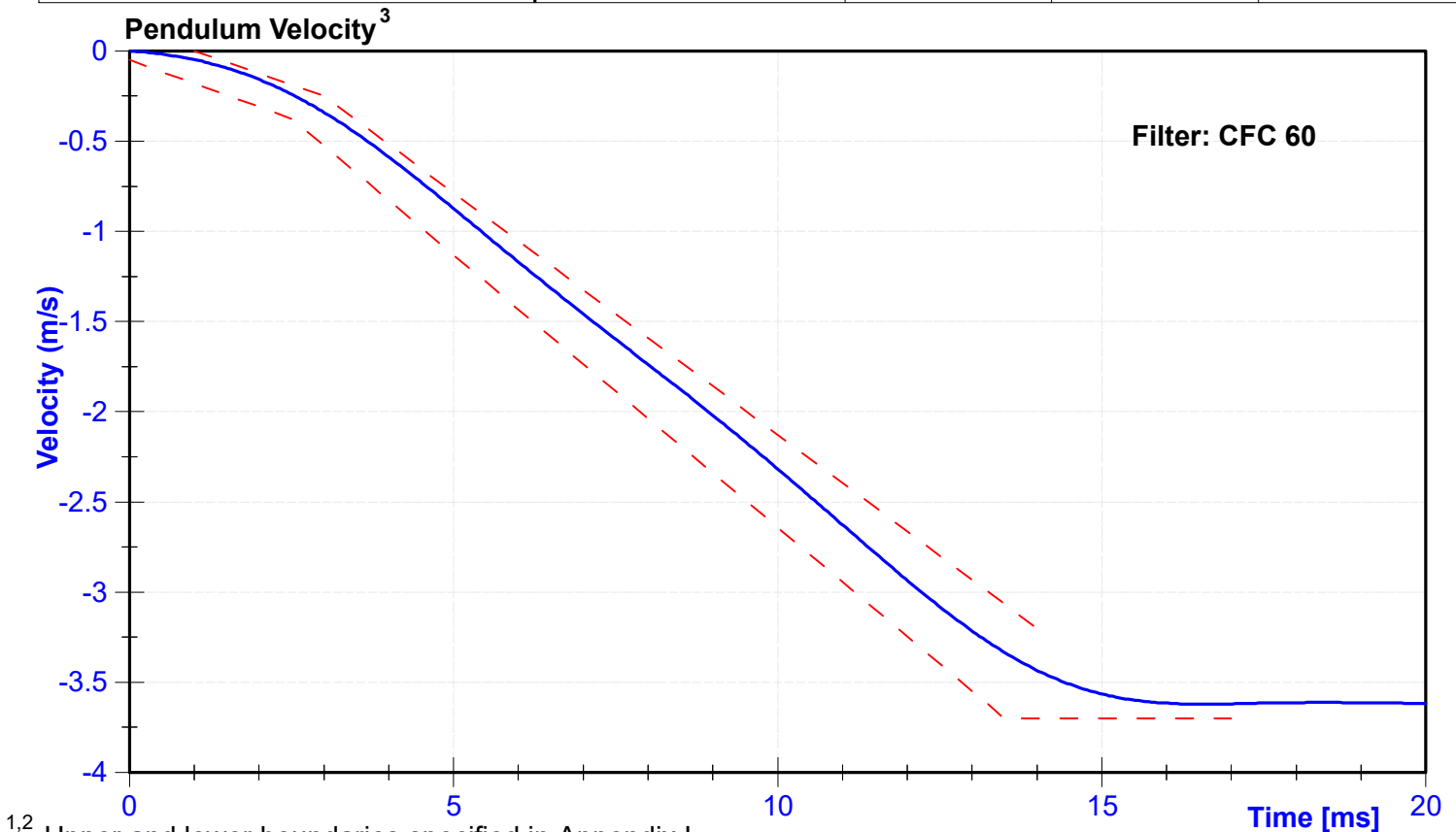
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

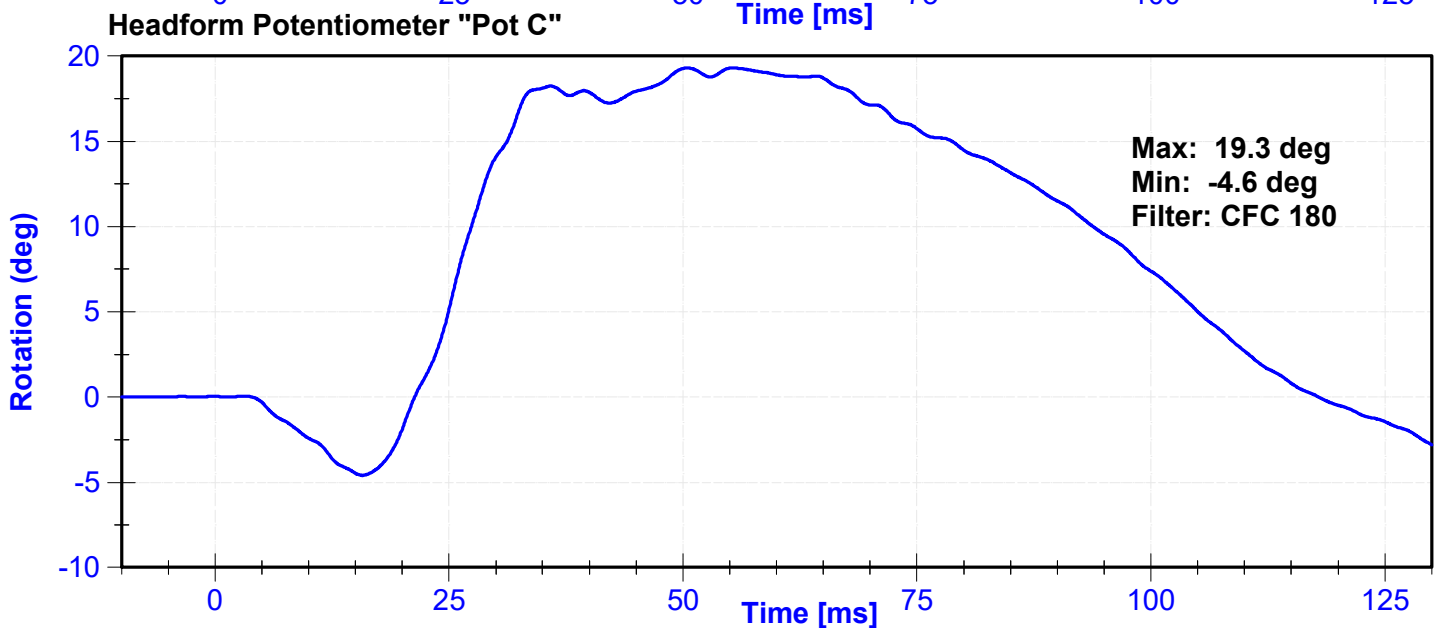
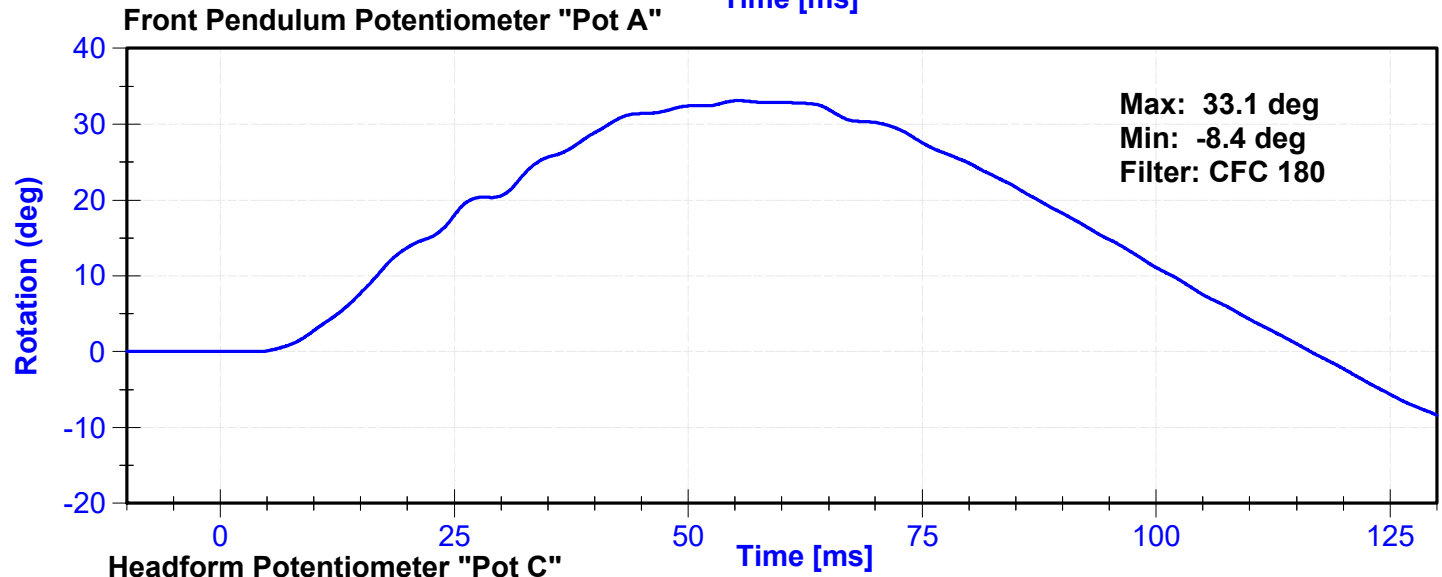
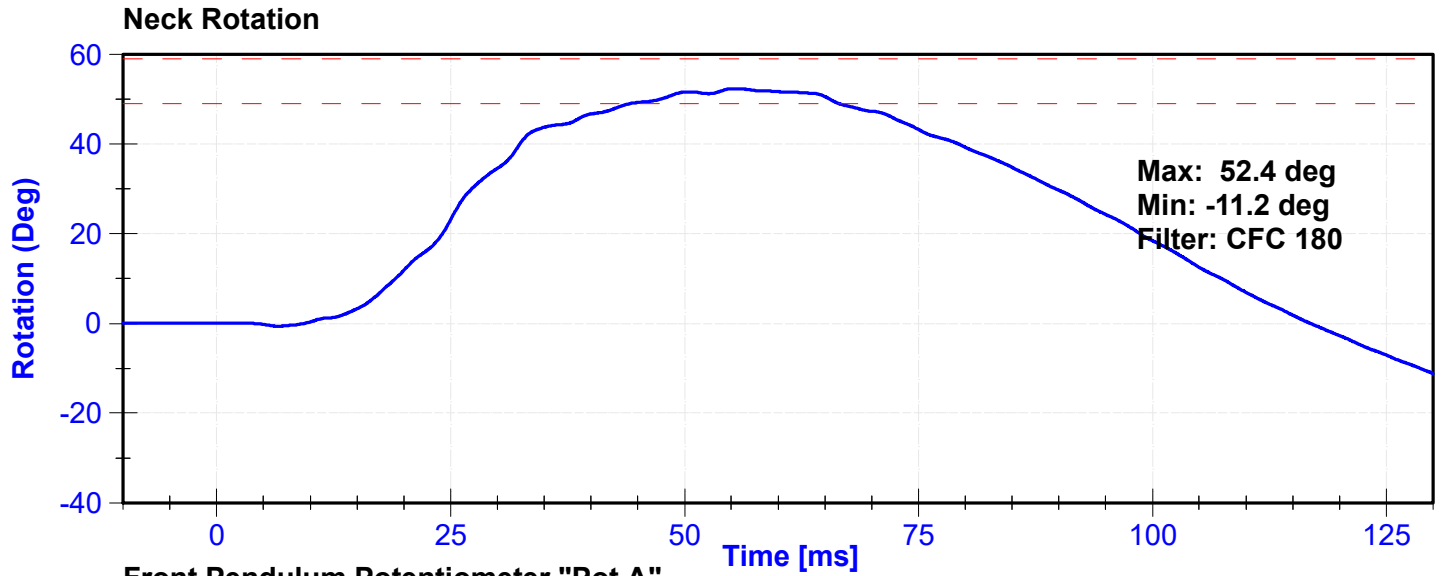
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.6	Pass
Humidity	10	70	%	55	Pass
Velocity	3.3	3.5	m/s	3.44	Pass
Lateral Neck Rotation	49	59	deg	52.4	Pass
Time at Maximum Rotation	54	66	ms	55.3	Pass
Time of Rotation Decay from Maximum	53	88	ms	61.6	Pass
Pendulum Velocity Overall Corridor	Lower Boundary ¹	Upper Boundary ²	m/s	See Plot ³	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	C16646	10/17/2024	10/17/2025
Front Pendulum Potentiometer	Sfernice	2247	9/13/2024	9/13/2025
Headform Potentiometer	Sfernice	095	9/13/2024	9/13/2025





Appendix I

² Upper Boundary Corridor		¹ Lower Boundary Corridor	
Time (ms)	Velocity (m/s)	Time (ms)	Velocity (m/s)
1.0	0.00	0.0	-0.05
3.0	-0.25	2.5	-0.375
14.0	-3.20	13.5	-3.7
		17.0	-3.7

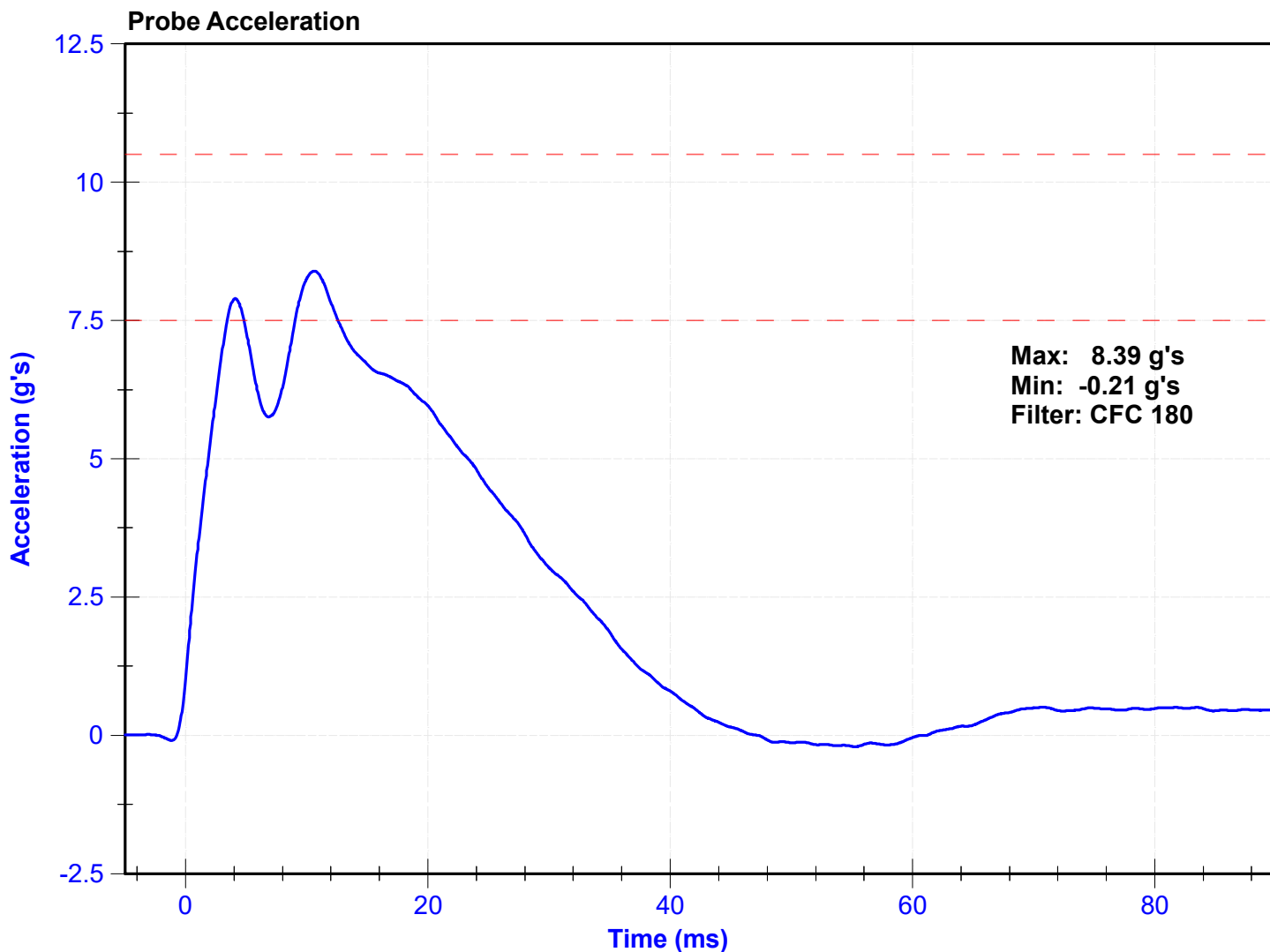
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.8	Pass
Humidity	10	70	%	61	Pass
Velocity	4.2	4.4	m/s	4.26	Pass
Probe Acceleration	7.5	10.5	g's	8.39	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Probe Accelerometer	Endevco	18566	5/7/2025	11/3/2025



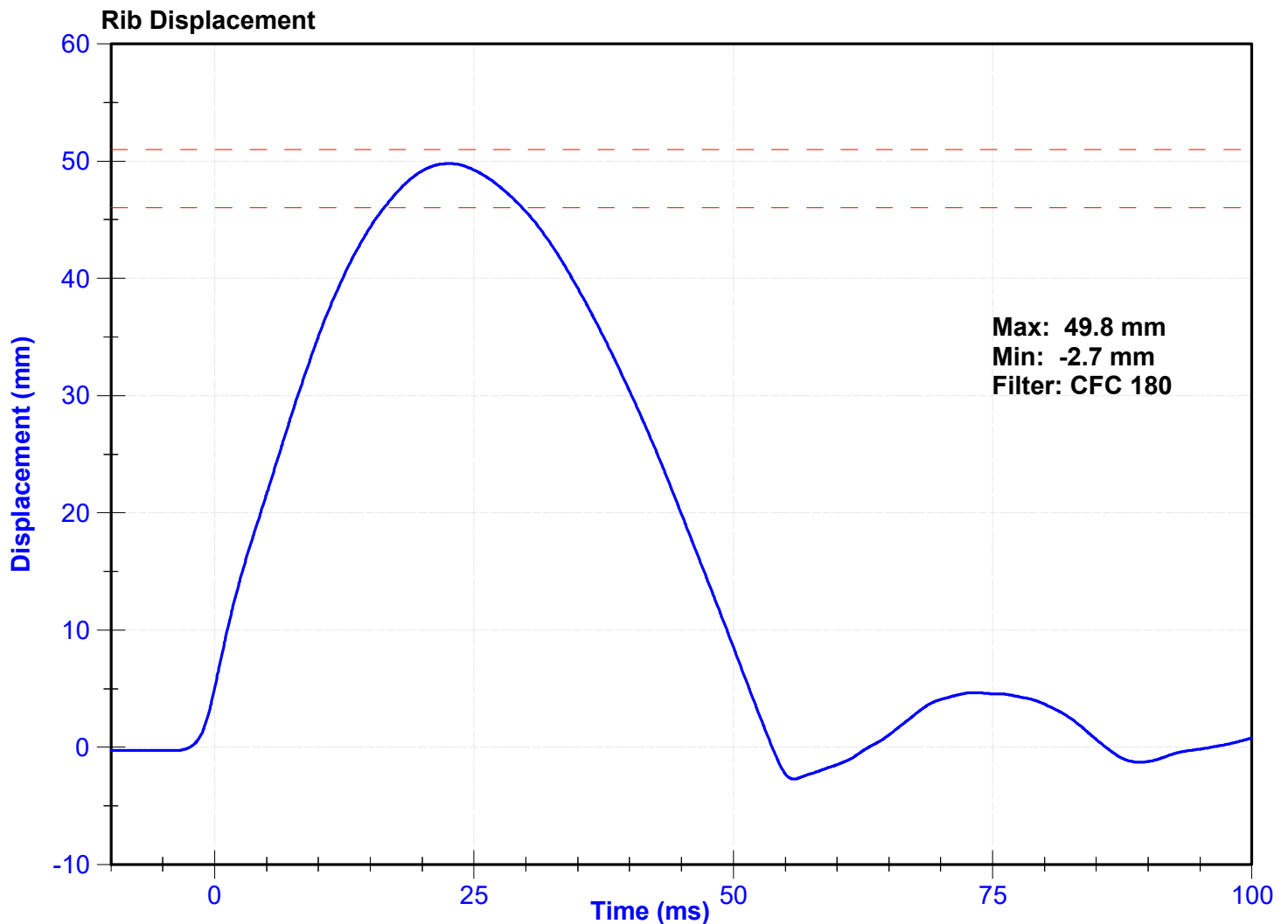
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	46	51	mm	49.8	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	268GFE	6/12/2025	12/11/2025



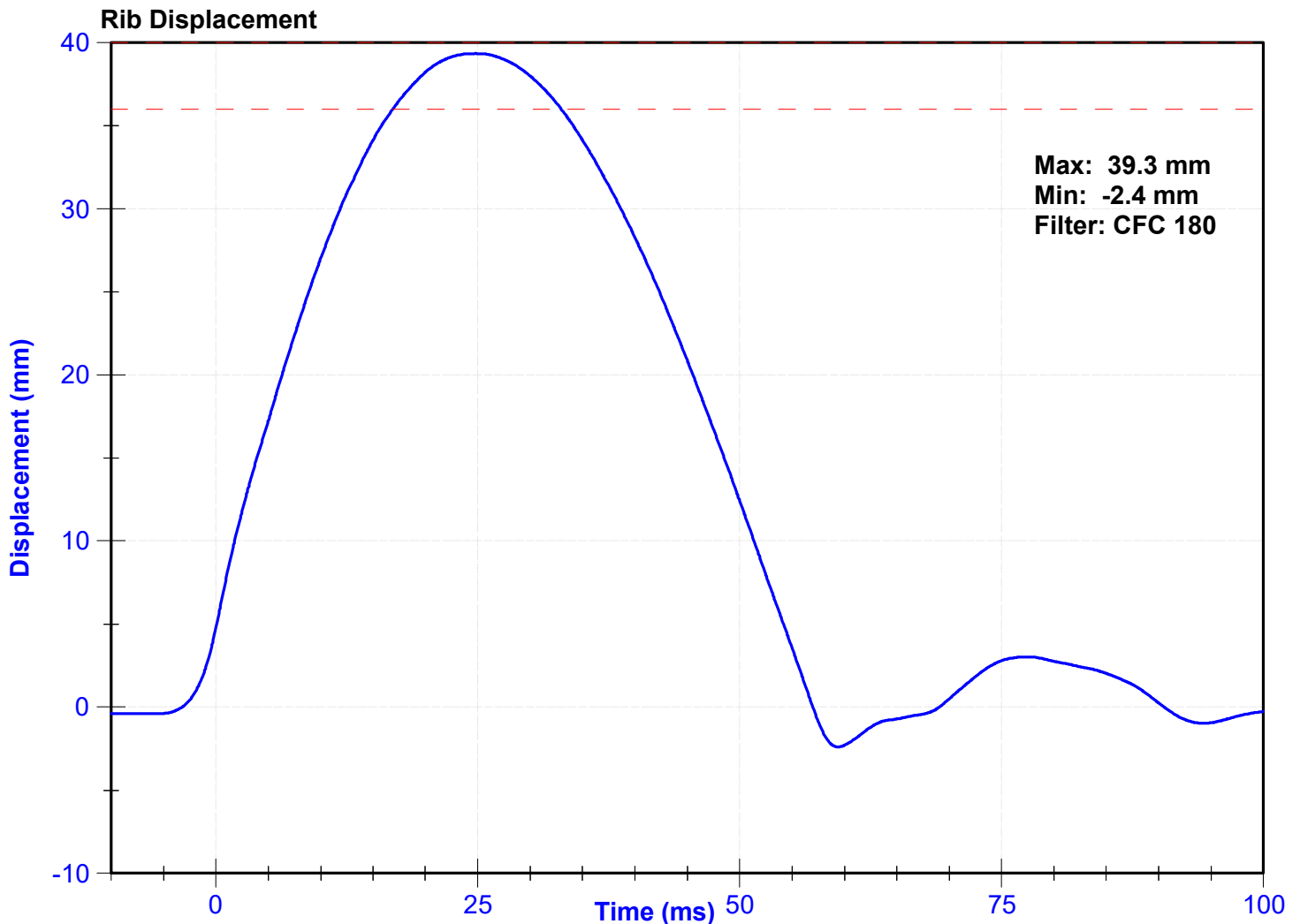
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	36	40	mm	39.3	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	268GFE	6/12/2025	12/11/2025



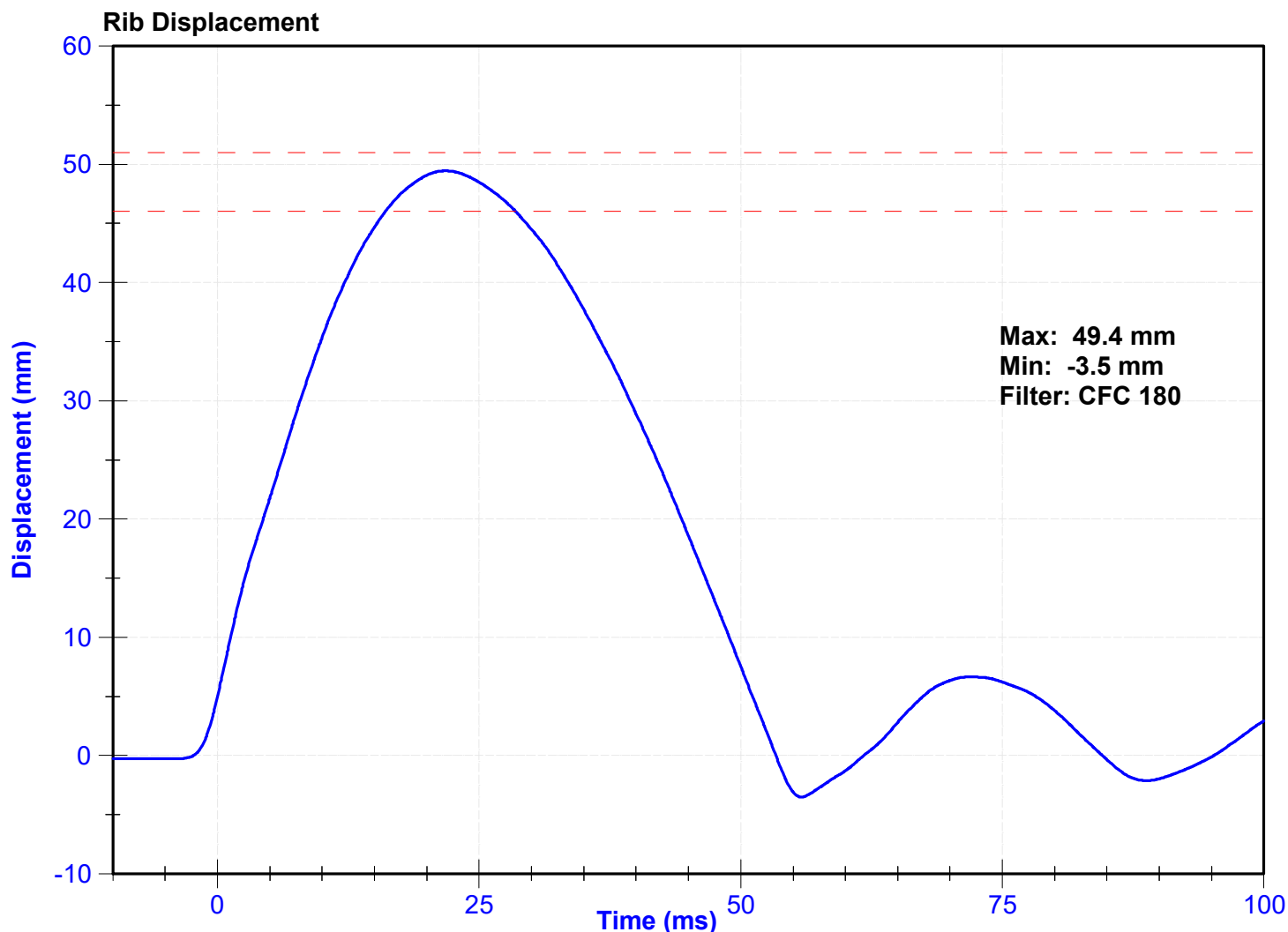
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	46	51	mm	49.4	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	269GFE	6/12/2025	12/11/2025



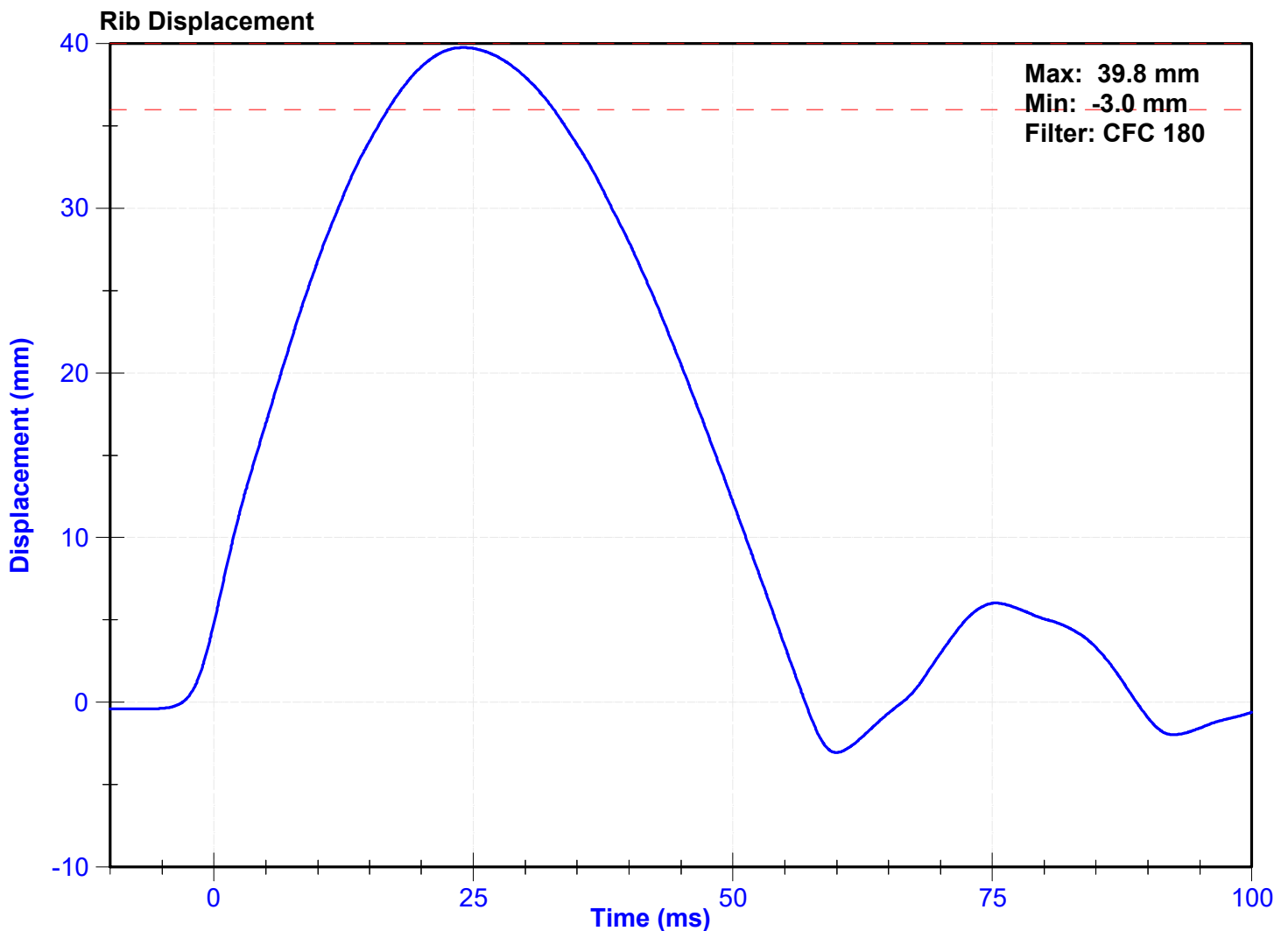
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	36	40	mm	39.8	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	269GFE	6/12/2025	12/11/2025



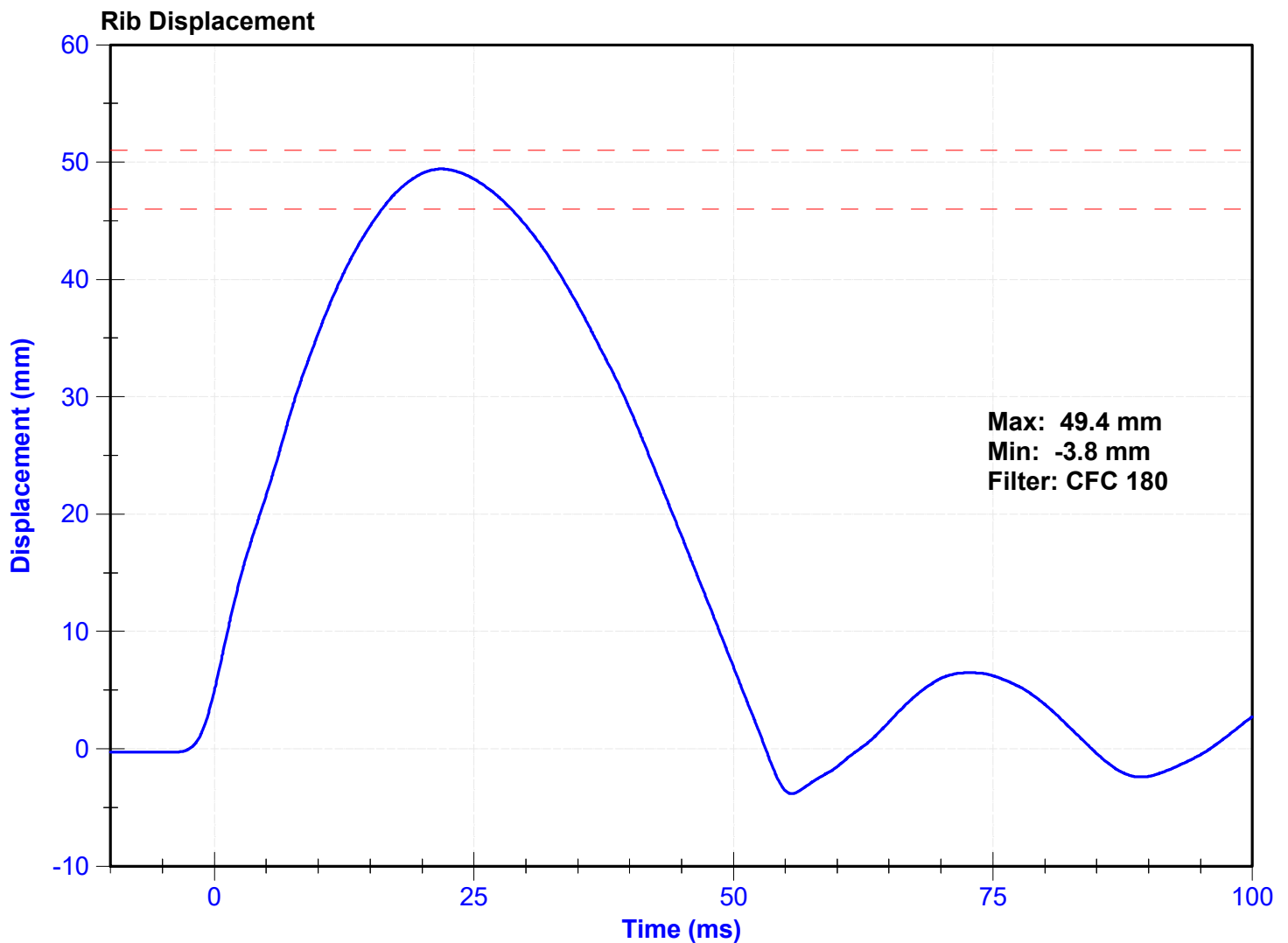
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	46	51	mm	49.4	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	270GFE	6/12/2025	12/11/2025



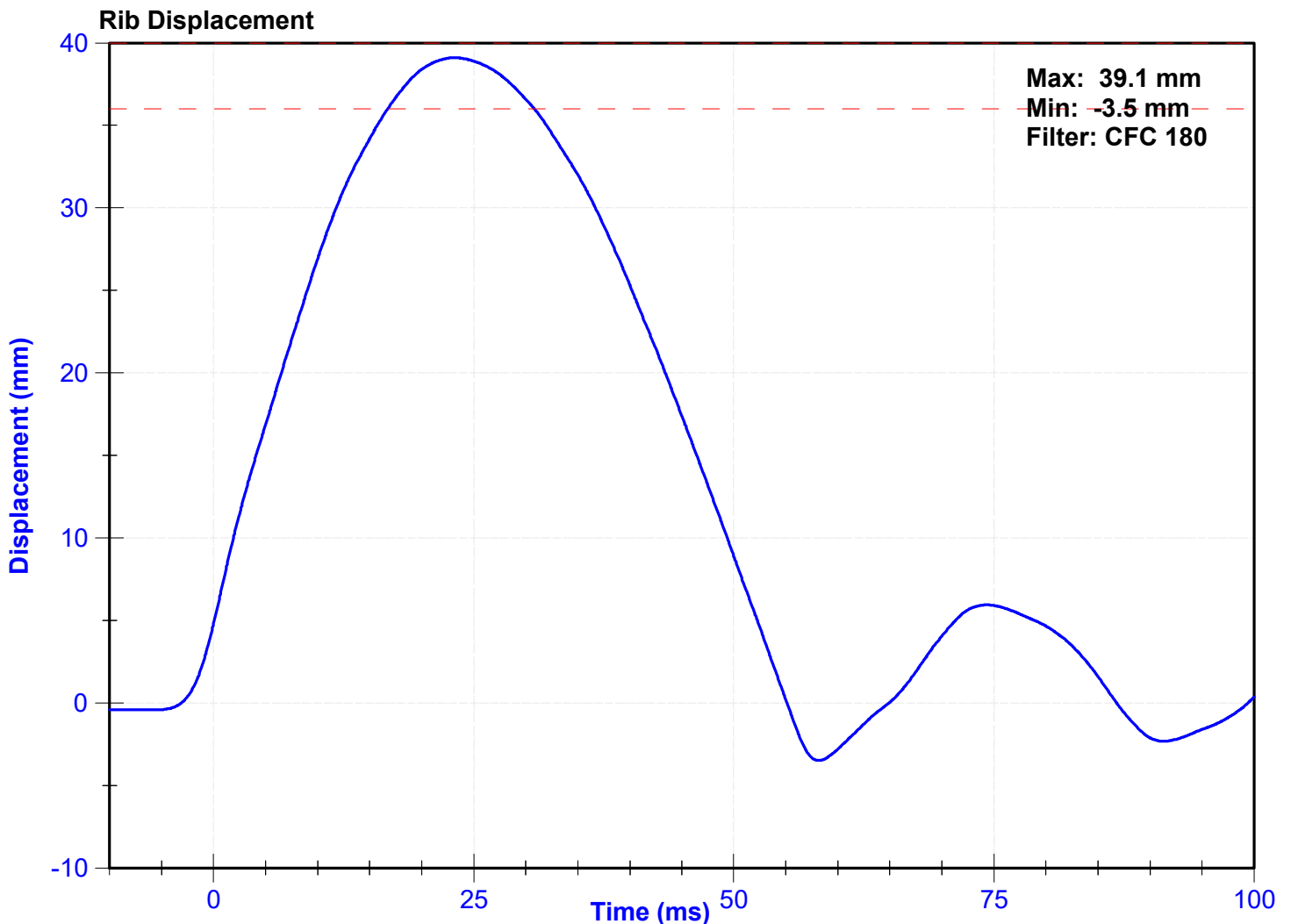
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	36	40	mm	39.1	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	270GFE	6/12/2025	12/11/2025



ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

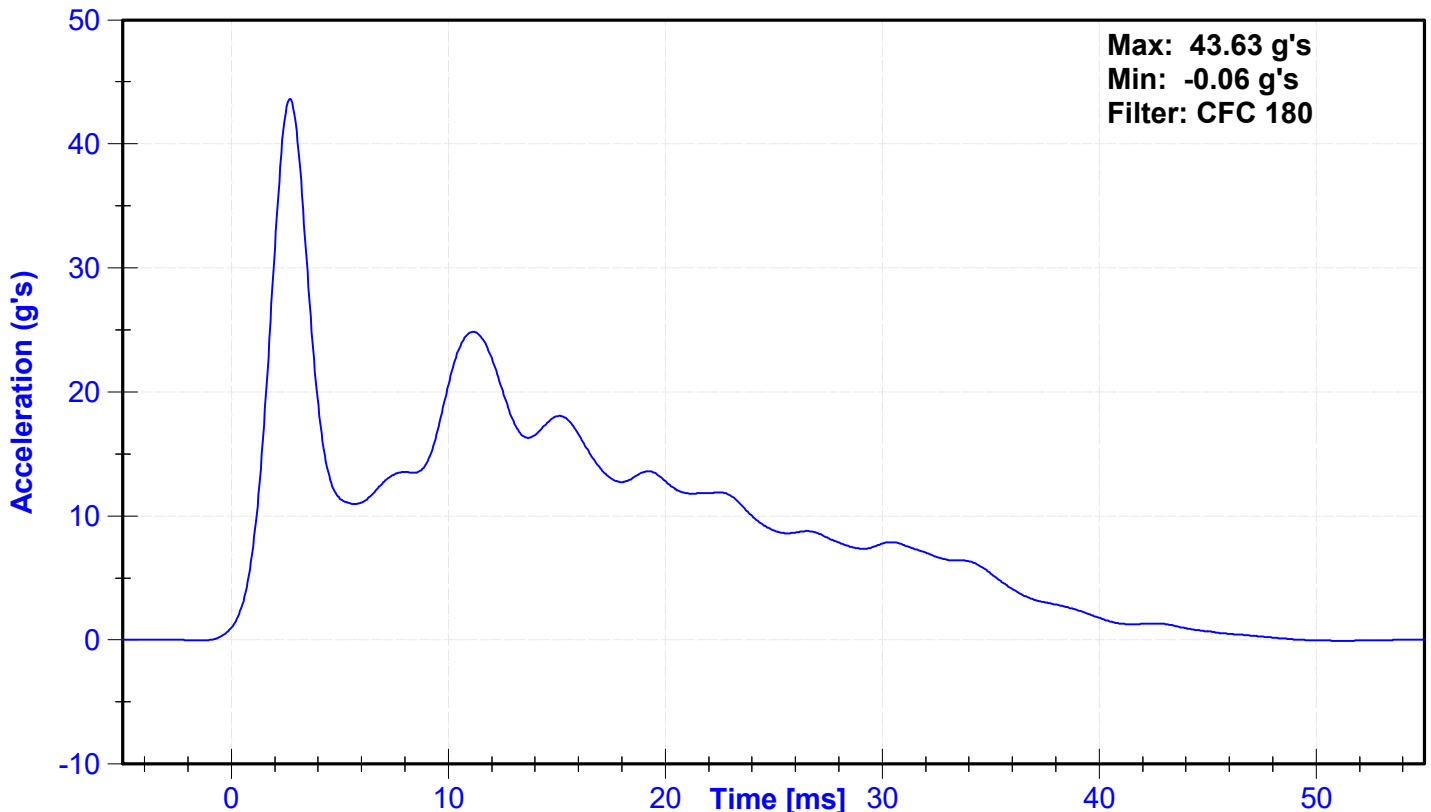
Results

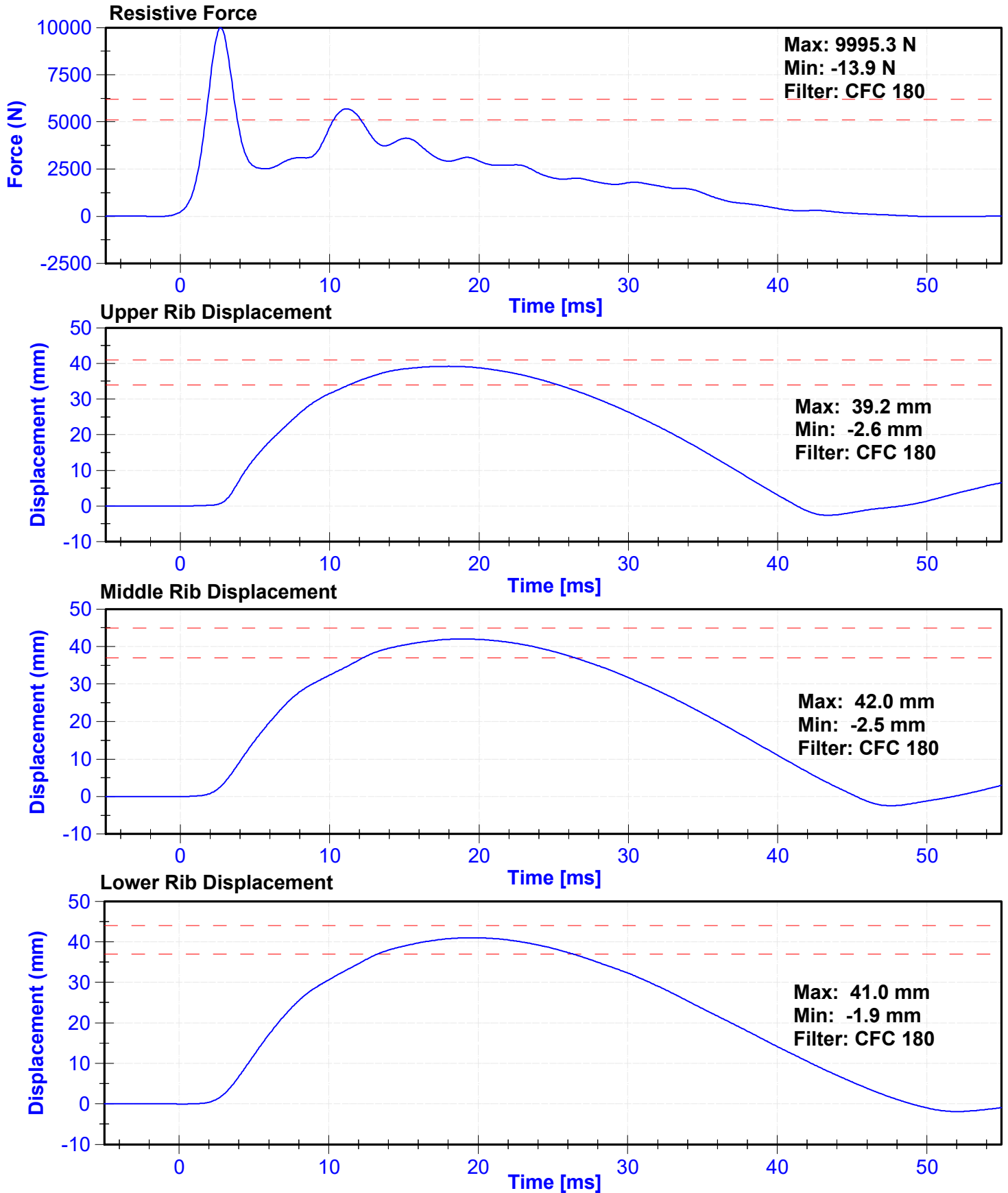
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.8	Pass
Humidity	10	70	%	61	Pass
Velocity	5.4	5.6	m/s	5.51	Pass
Resistive Force after 6ms	5100	6200	N	5691.2	Pass
Upper Thorax Rib Deflection	34	41	mm	39.2	Pass
Mid Thorax Rib Deflection	37	45	mm	42.0	Pass
Lower Thorax Rib Deflection	37	44	mm	41.0	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Probe Accelerometer	Endevco	18566	5/7/2025	11/3/2025
Upper Thorax Rib Potentiometer	Honeywell	268GFE	6/12/2025	12/11/2025
Middle Thorax Rib Potentiometer	Honeywell	269GFE	6/12/2025	12/11/2025
Lower Thorax Rib Potentiometer	Honeywell	270GFE	6/12/2025	12/11/2025

Probe Acceleration





ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

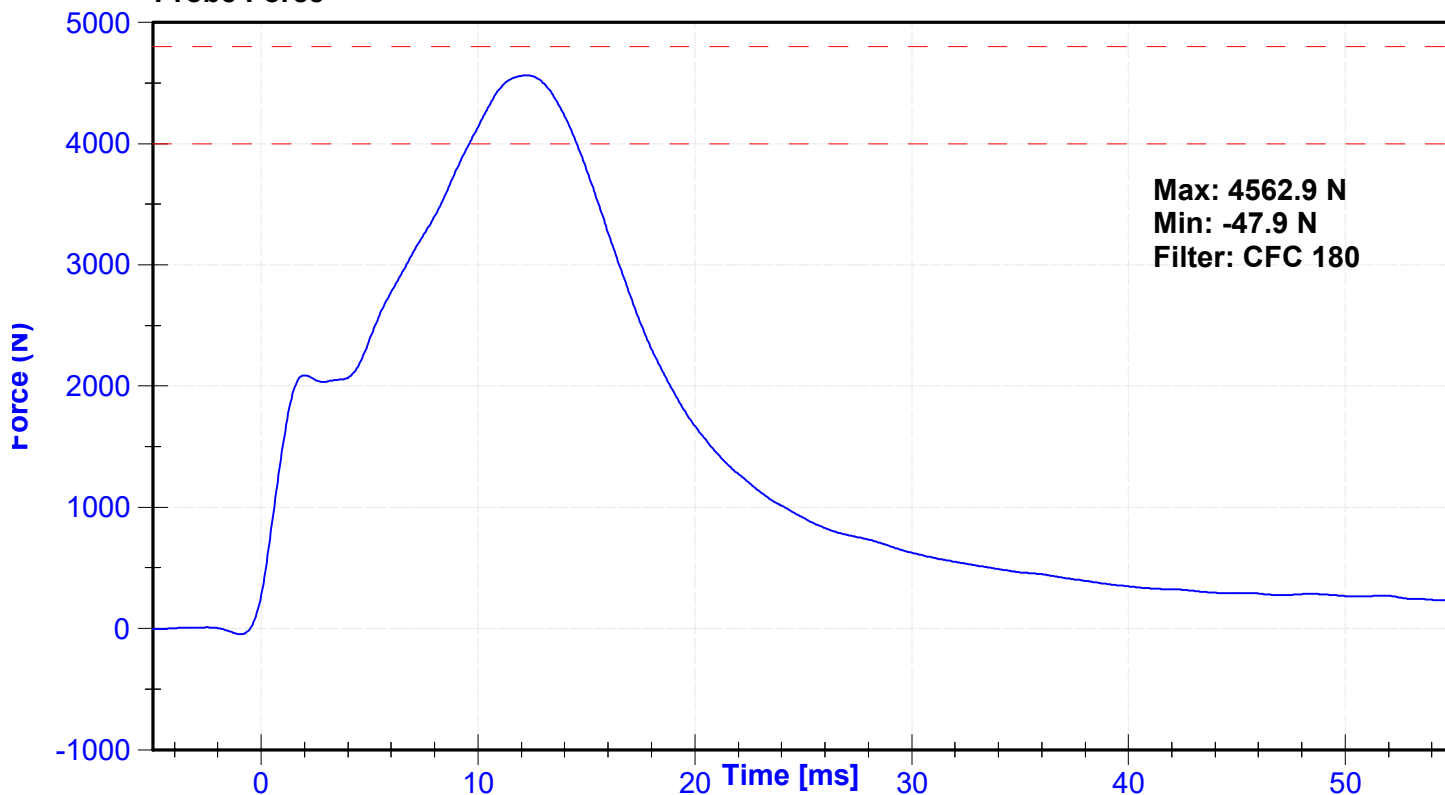
Results

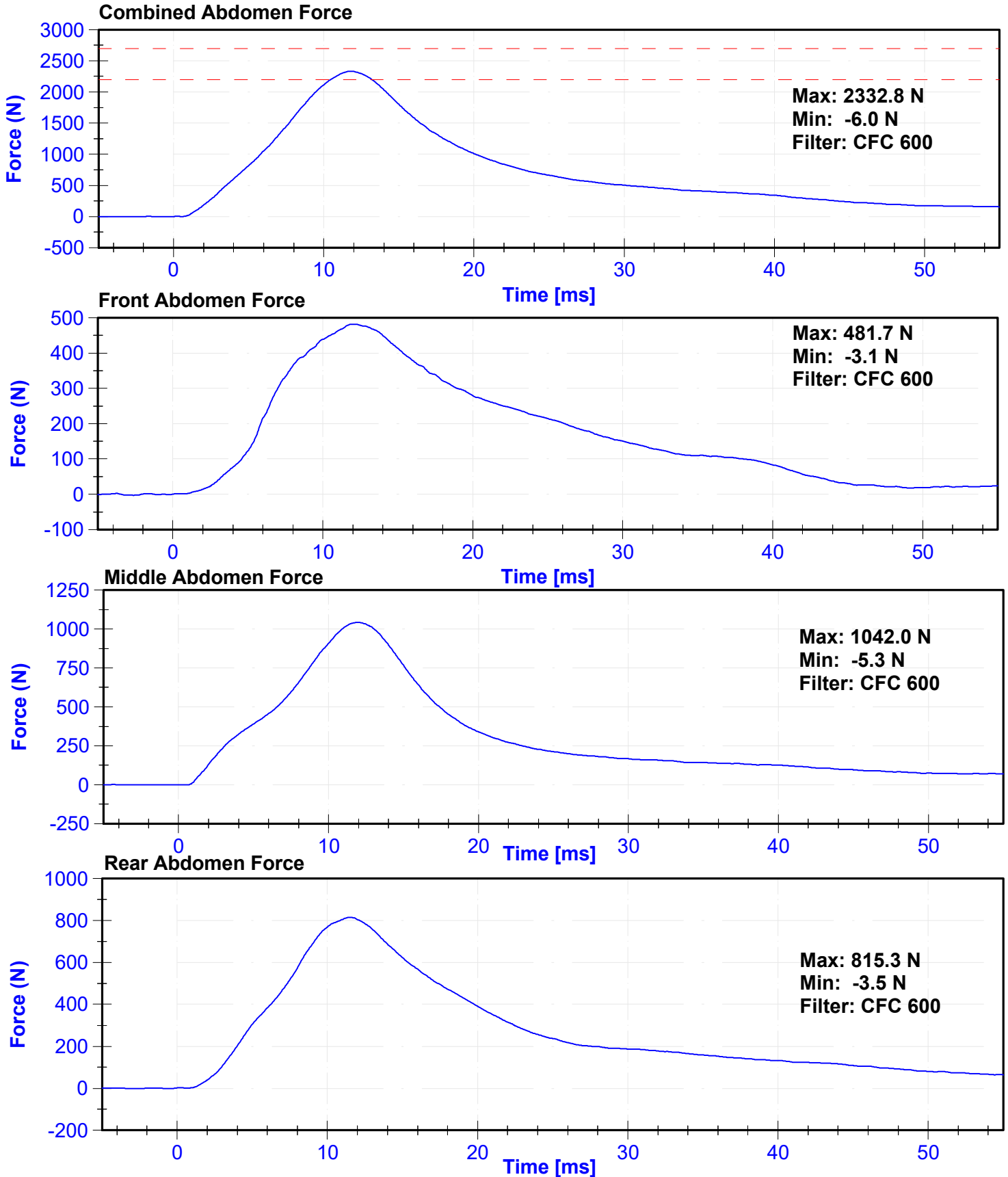
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.8	Pass
Humidity	10	70	%	61	Pass
Velocity	3.9	4.1	m/s	4.02	Pass
Combined Abdomen Force	2200	2700	N	2332.8	Pass
Time at Peak Abdomen Force	10.0	12.3	ms	11.75	Pass
Resistive Probe Force	4000	4800	N	4562.9	Pass
Time at Peak Resistive Force	10.6	13.0	ms	12.20	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	18566	5/7/2025	11/3/2025
Front Abdomen Load Cell	Denton	1440	11/20/2024	11/20/2025
Middle Abdomen Load Cell	Denton	1525	11/20/2024	11/20/2025
Rear Abdomen Load Cell	Denton	1528	11/20/2024	11/20/2025

Probe Force





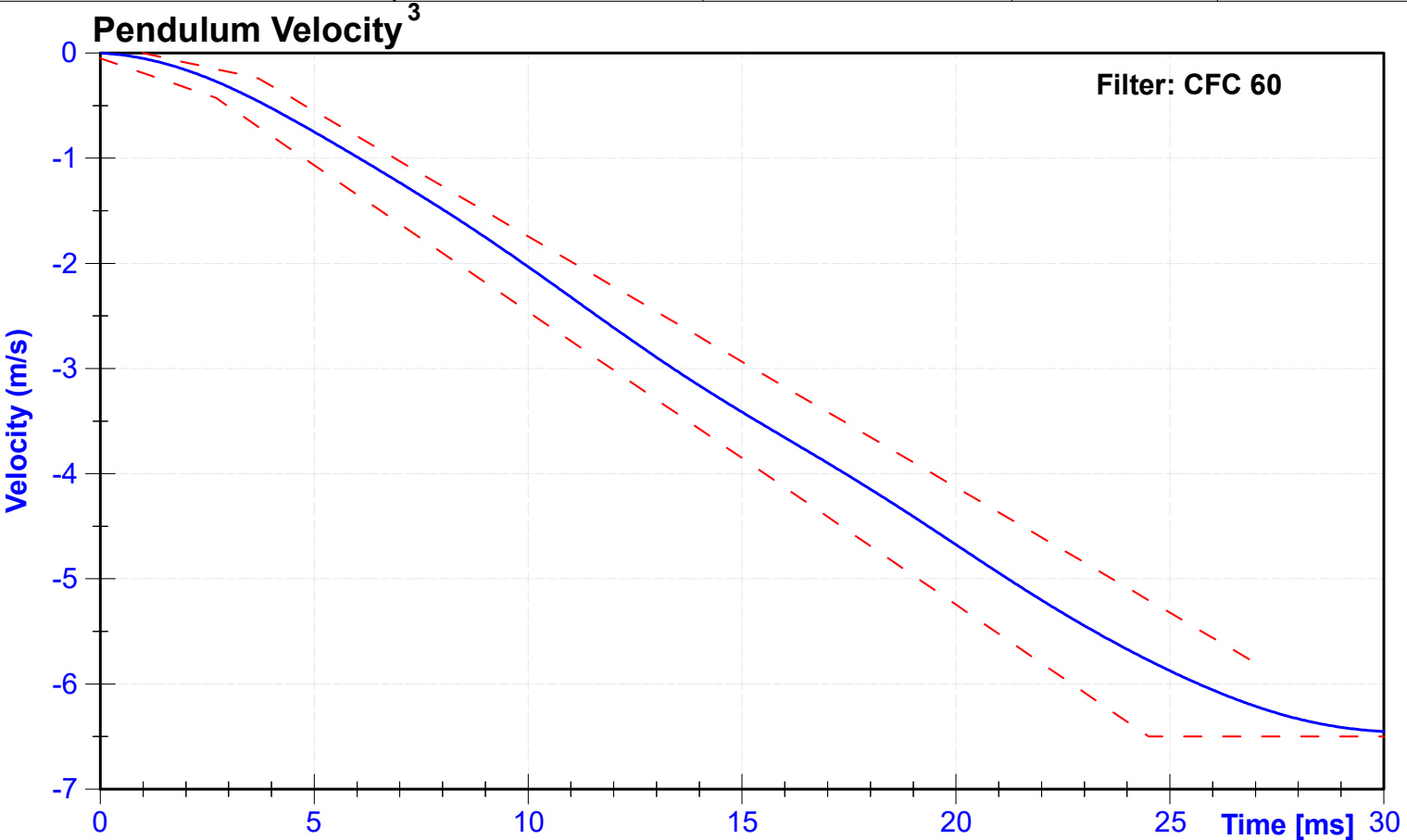
ATD Manufacturer	FTSS	Test Technician	Z. Nyhart
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

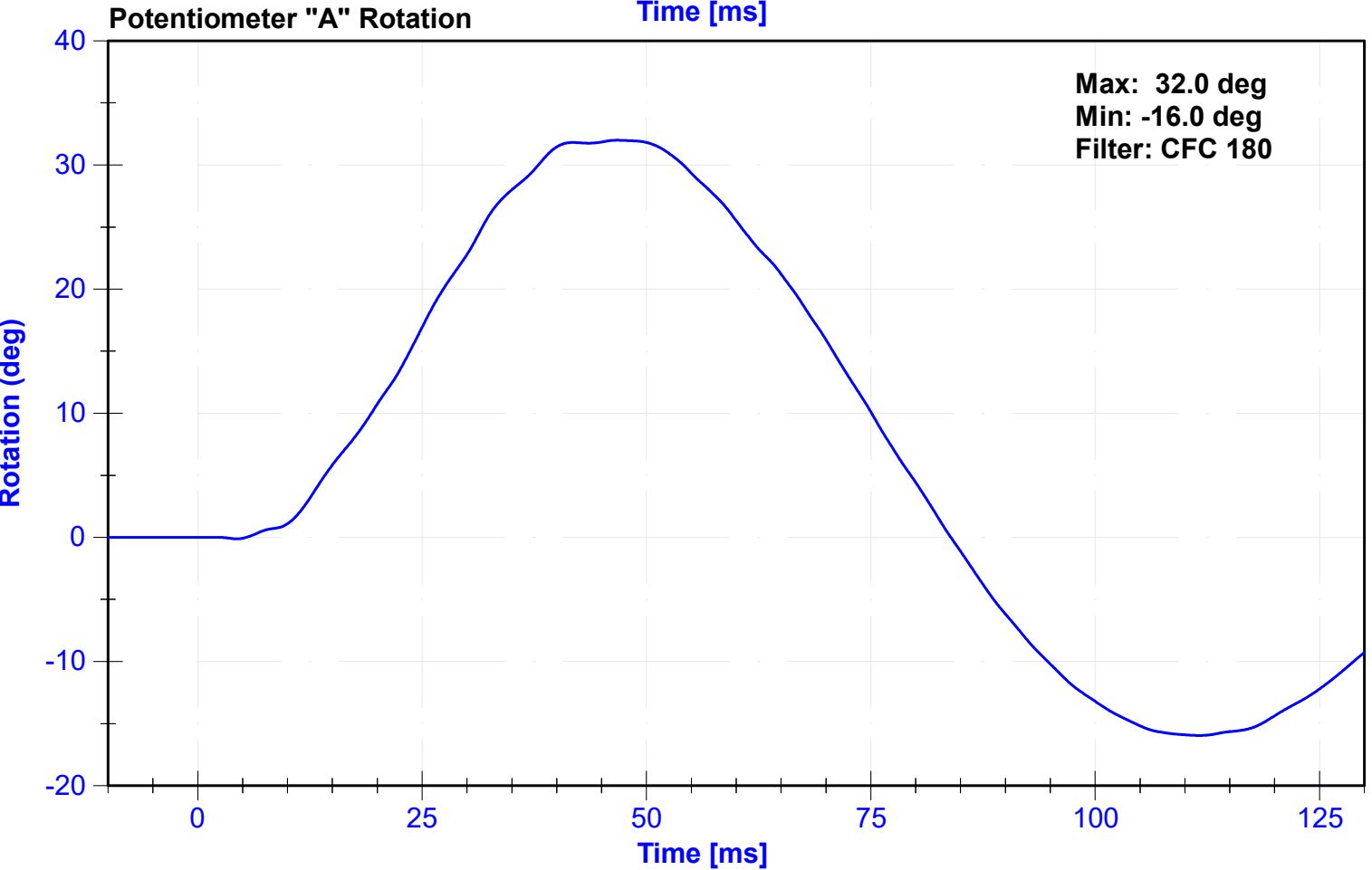
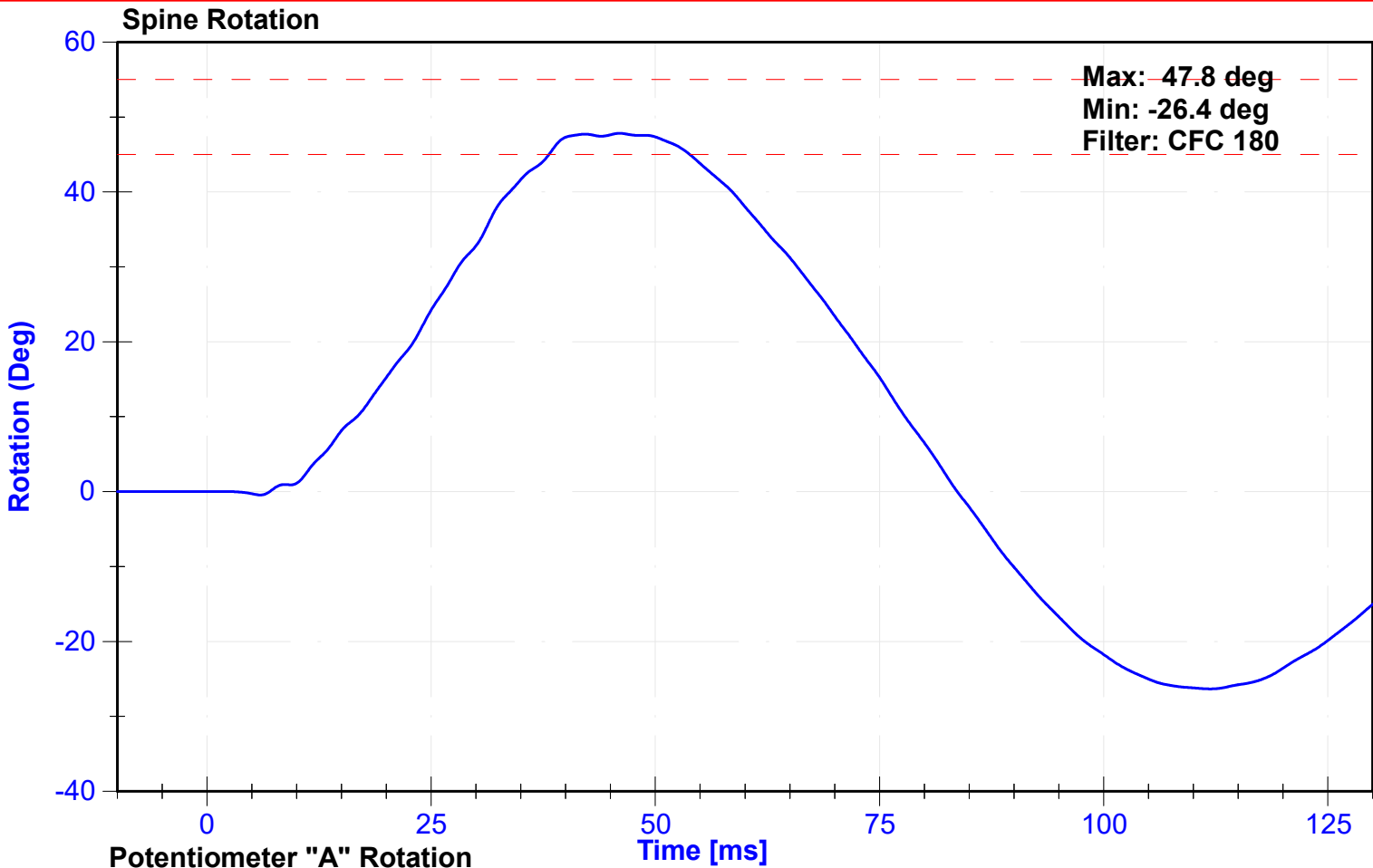
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.6	Pass
Humidity	10	70	%	55	Pass
Velocity	5.95	6.15	m/s	6.108	Pass
Lateral Spine Rotation	45	55	deg	47.8	Pass
Time at Maximum Rotation	39	53	ms	46.0	Pass
Time of Decay to Zero Degrees	37	57	ms	37.7	Pass
Pendulum Velocity Overall Corridor	Lower Boundary ¹	Upper Boundary ²	m/s	See Plot ³	Pass

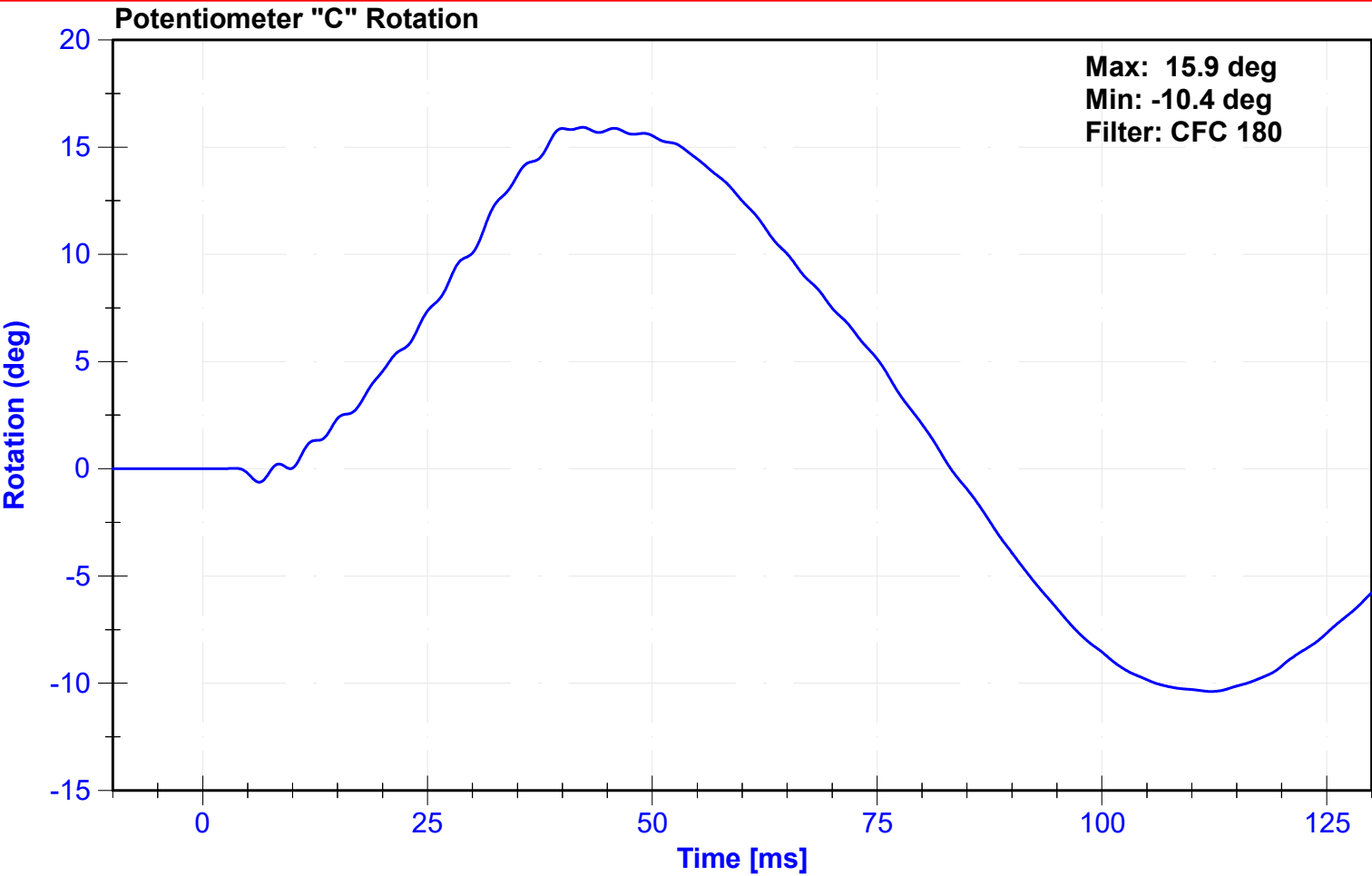
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	C16646	10/17/2024	10/17/2025
Pendulum "A" Potentiometer	Sfernice	2247	9/13/2024	9/13/2025
Condyle "B" Potentiometer	Sfernice	095	9/13/2024	9/13/2025



^{1,2} Upper and lower boundaries specified in Appendix I IV-19





Appendix I

² Upper Boundary Corridor		¹ Lower Boundary Corridor	
Time (ms)	Velocity (m/s)	Time (ms)	Velocity (m/s)
1.0	0.00	0.0	-0.05
3.7	-0.24	2.7	-0.425
27.0	-5.80	24.5	-6.5
		30.0	-6.5

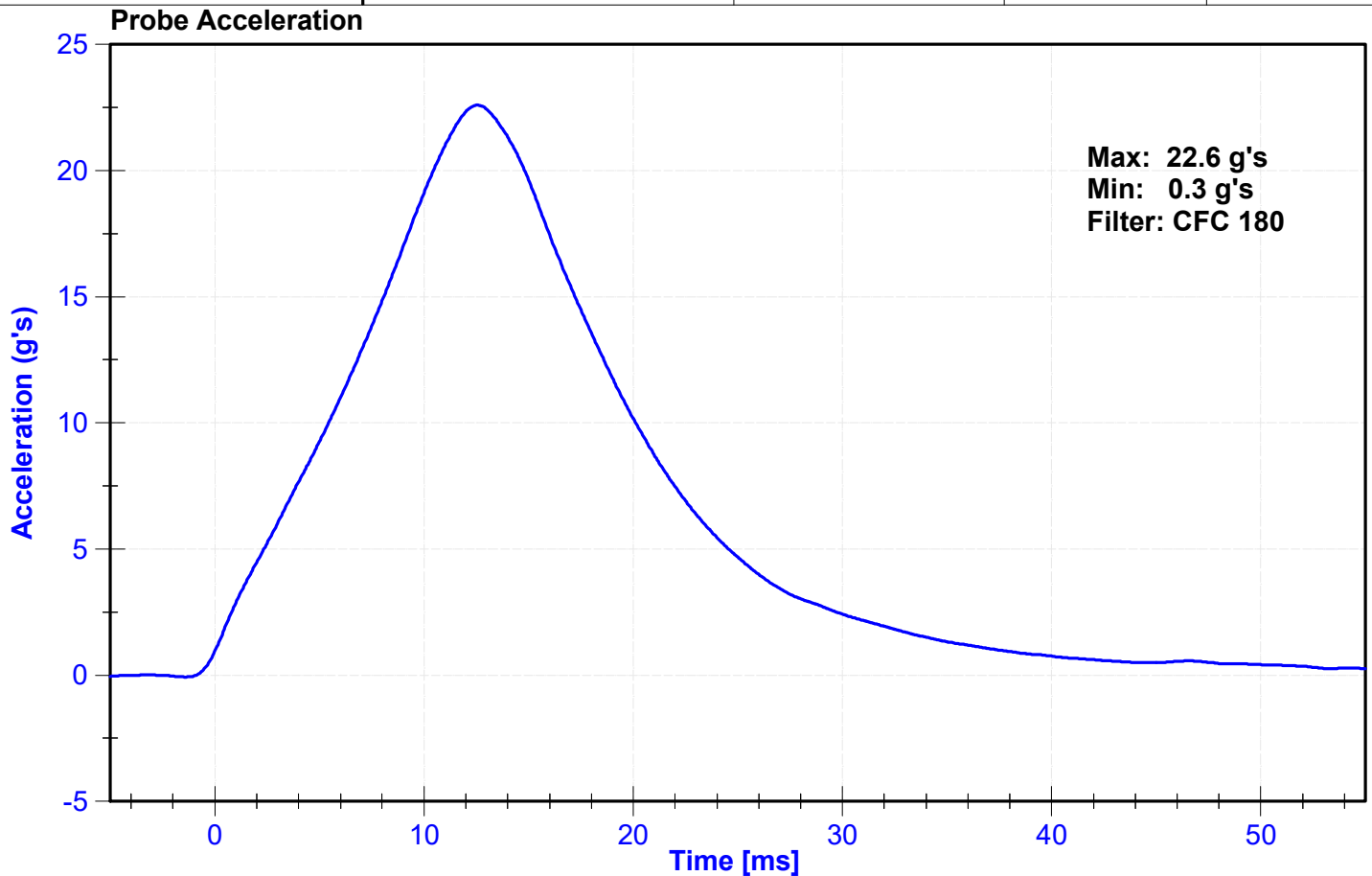
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

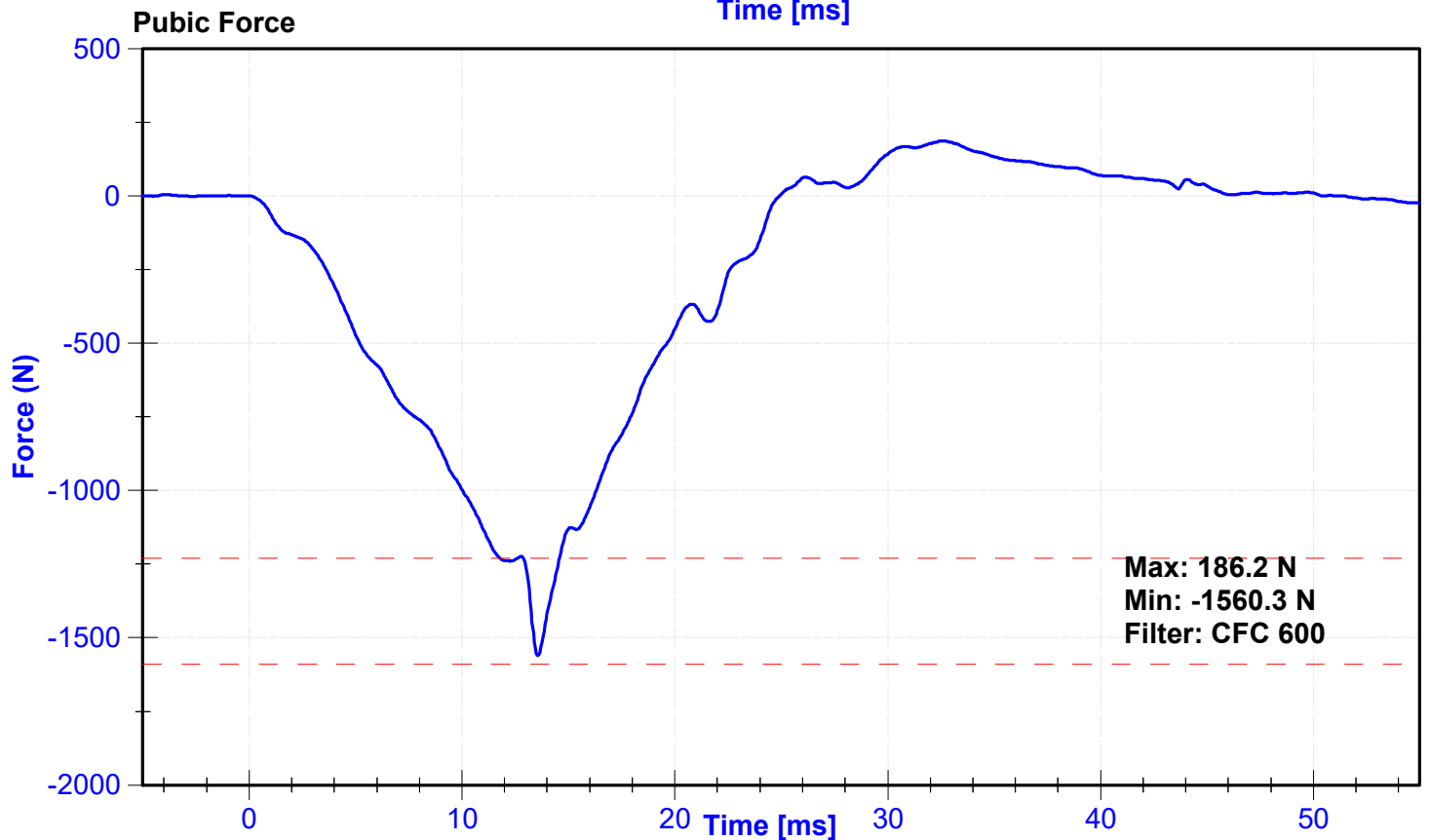
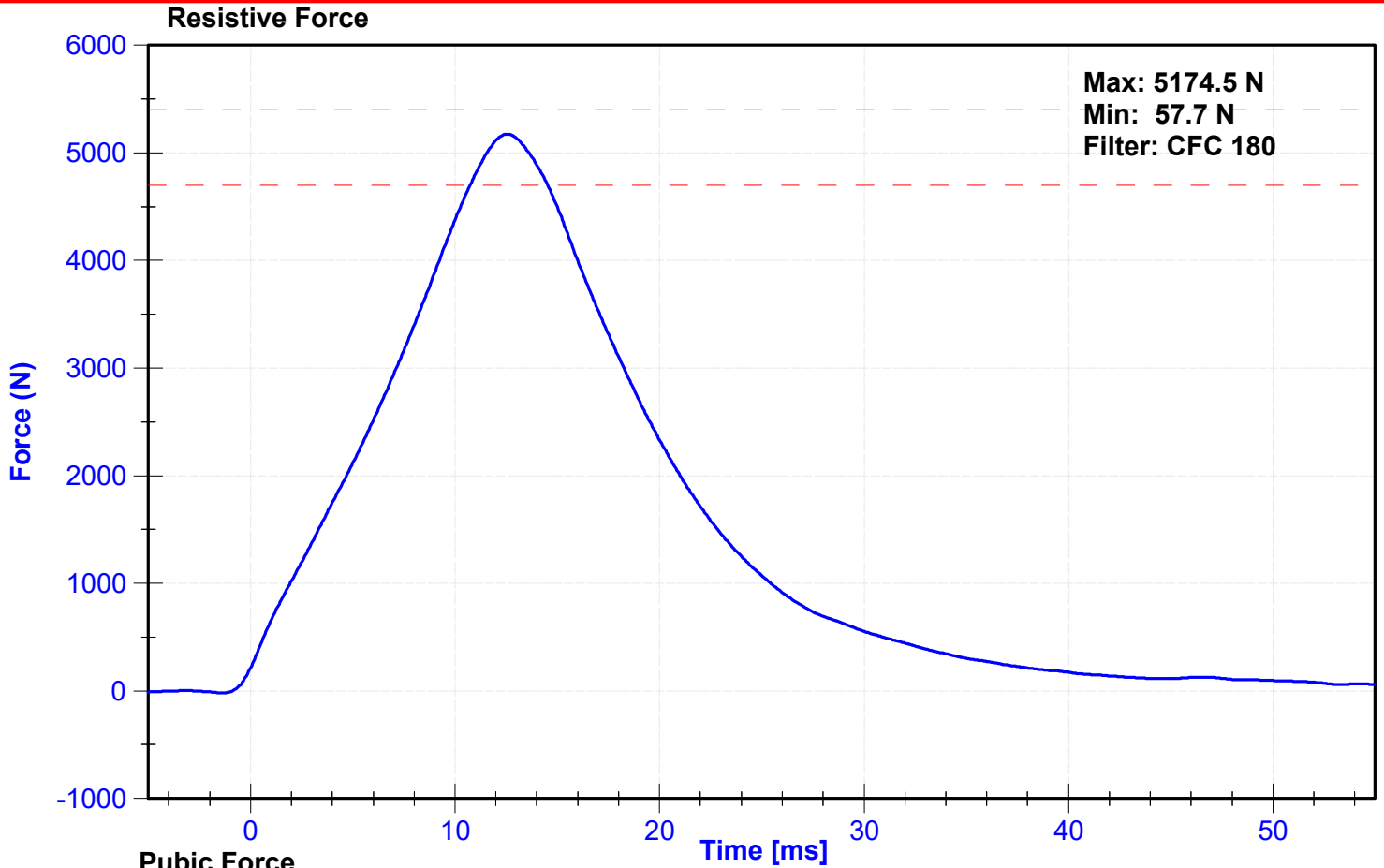
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.8	Pass
Humidity	10	70	%	61	Pass
Velocity	4.2	4.4	m/s	4.27	Pass
Resistive Force	4700	5400	N	5174.5	Pass
Time at Peak Resistive Force	11.8	16.1	ms	12.55	Pass
Pubic Force	-1590	-1230	N	-1560.3	Pass
Time at Peak Pubic Force	12.2	17.0	ms	13.55	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	18566	5/7/2025	11/3/2025
Pubic Load Cell	Denton	456-FY	11/20/2024	11/20/2025





POST-TEST DUMMY PERFORMANCE CALIBRATION TEST DATA
(Subpart U, ES-2re)

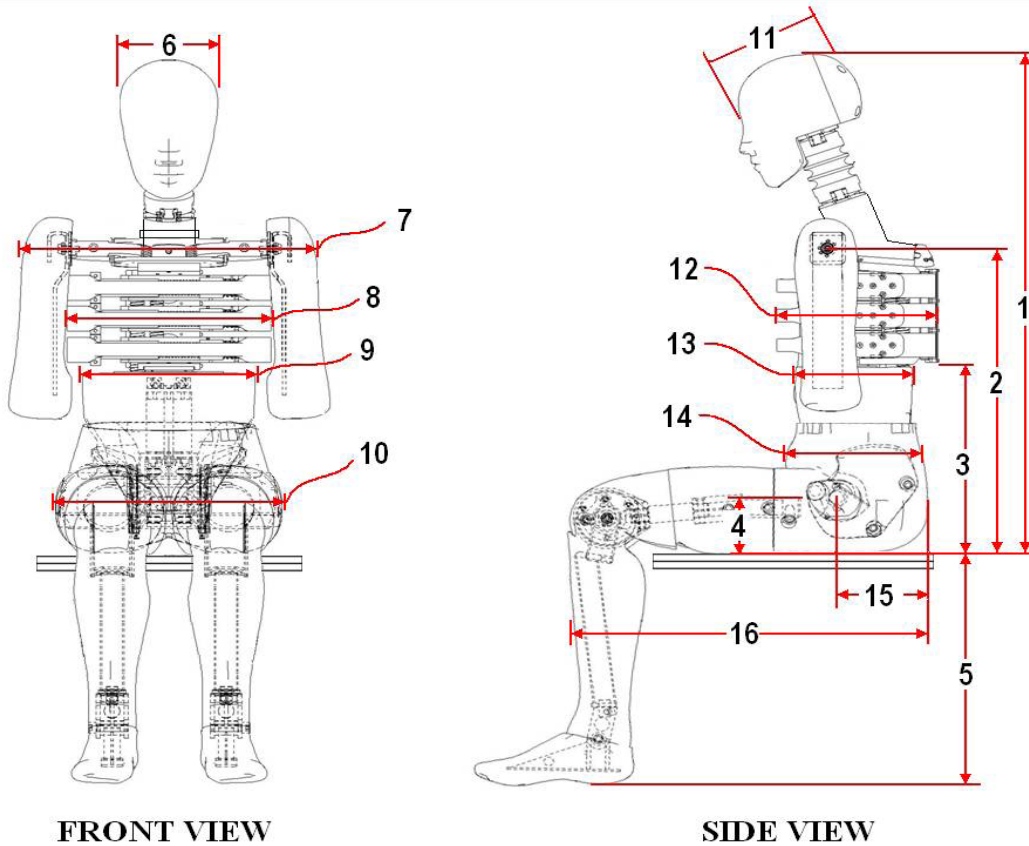


External Measurements - EuroSID-2re

Technician: J. Rios

Date: 8/11/2025

Dummy Serial Number: DG5348



FRONT VIEW

SIDE VIEW

Dim. No.	Description	Specification (mm)		Result (mm)	Pass/Fail
1	Sitting Height	900	918	907	Pass
2	Seat to Shoulder Joint	558	572	564	Pass
3	Seat to Lower Face of Thoracic Spine Box	346	356	353	Pass
4	Seat to Hip Joint (center of bolt)	97	103	99	Pass
5	Sole to Seat, Sitting	333	451	417	Pass
6	Head Width	152	158	155	Pass
7	Shoulder/Arm Width	461	479	469	Pass
8	Thorax Width	322	332	329	Pass
9	Abdomen Width	273	287	280	Pass
10	Pelvis Lap Width	359	373	365	Pass
11	Head Depth	196	206	201	Pass
12	Thorax Depth	262	272	267	Pass
13	Abdomen Depth	194	204	201	Pass
14	Pelvis Depth	235	245	241	Pass
15	Back of Buttocks to Hip Joint (center of bolt)	150	160	155	Pass
16	Back of Buttocks to Front Knee	597	615	604	Pass

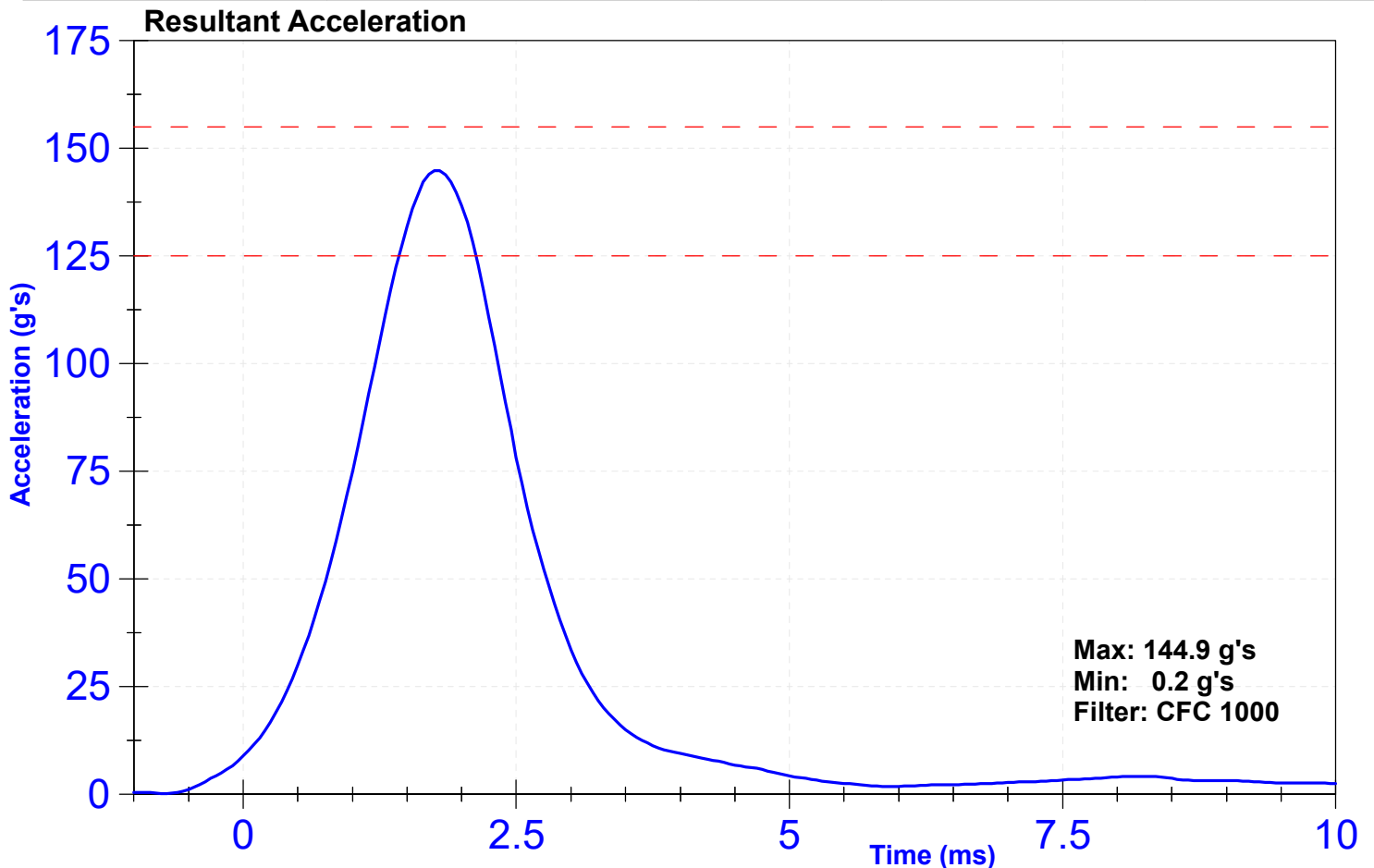
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

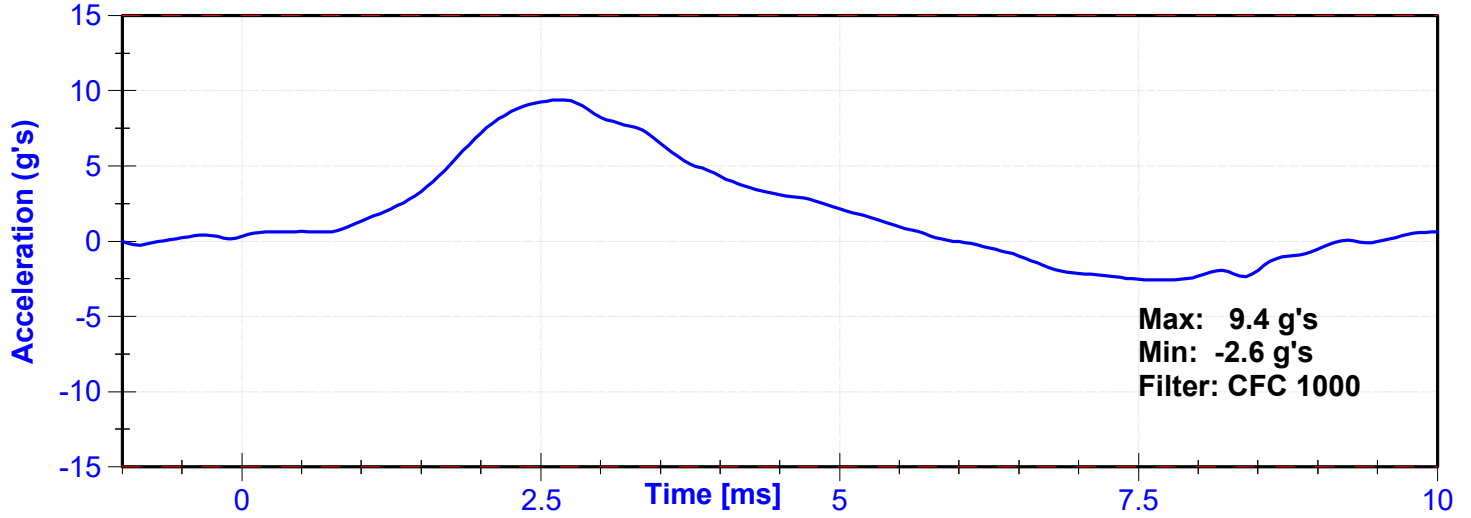
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	56	Pass
Resultant Acceleration	125	155	g's	144.9	Pass
Oscillation	0	15	%	2.86	Pass
Fore-Aft Acceleration	-15	15	g's	9.4	Pass

Transducer Calibrations

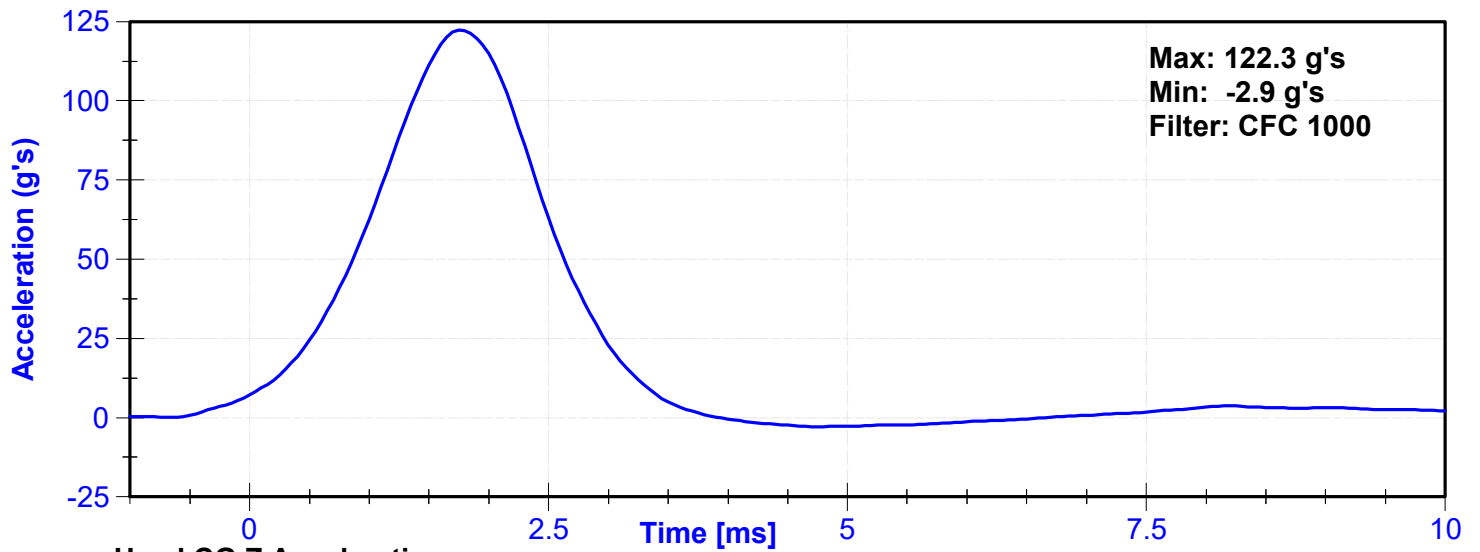
Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
X Accelerometer	Endevco	18613	6/11/2025	12/8/2025
Y Accelerometer	Endevco	18472	6/11/2025	12/8/2025
Z Accelerometer	Endevco	18663	6/11/2025	12/8/2025



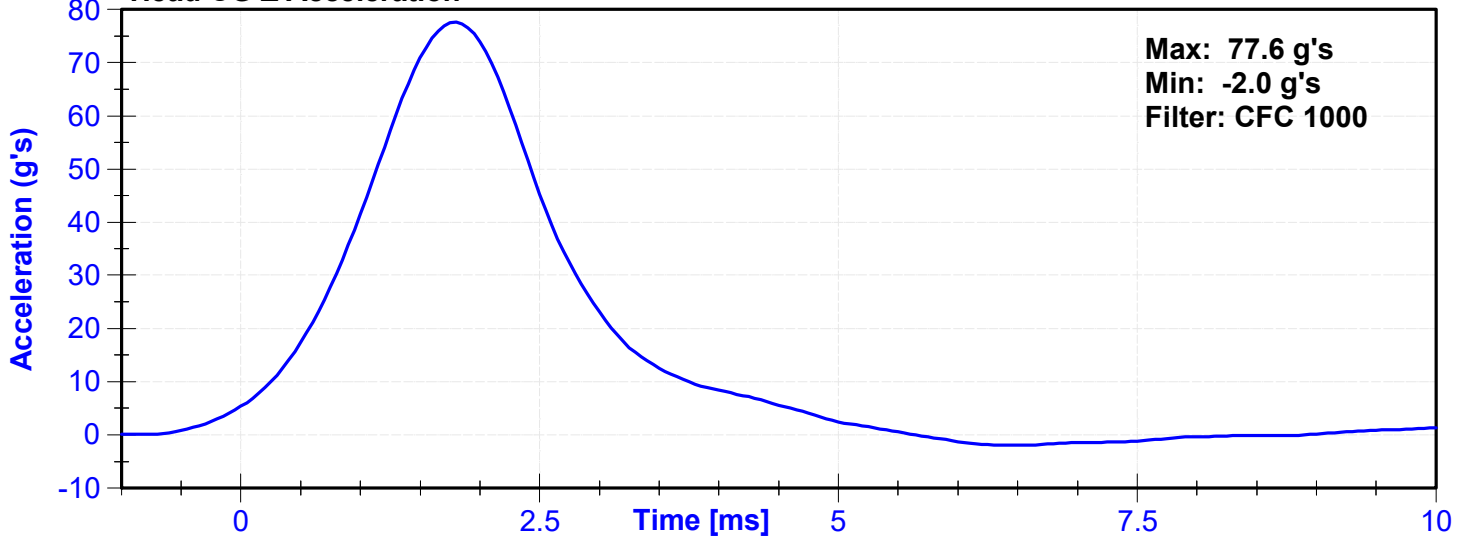
Head CG X Acceleration



Head CG Y Acceleration



Head CG Z Acceleration



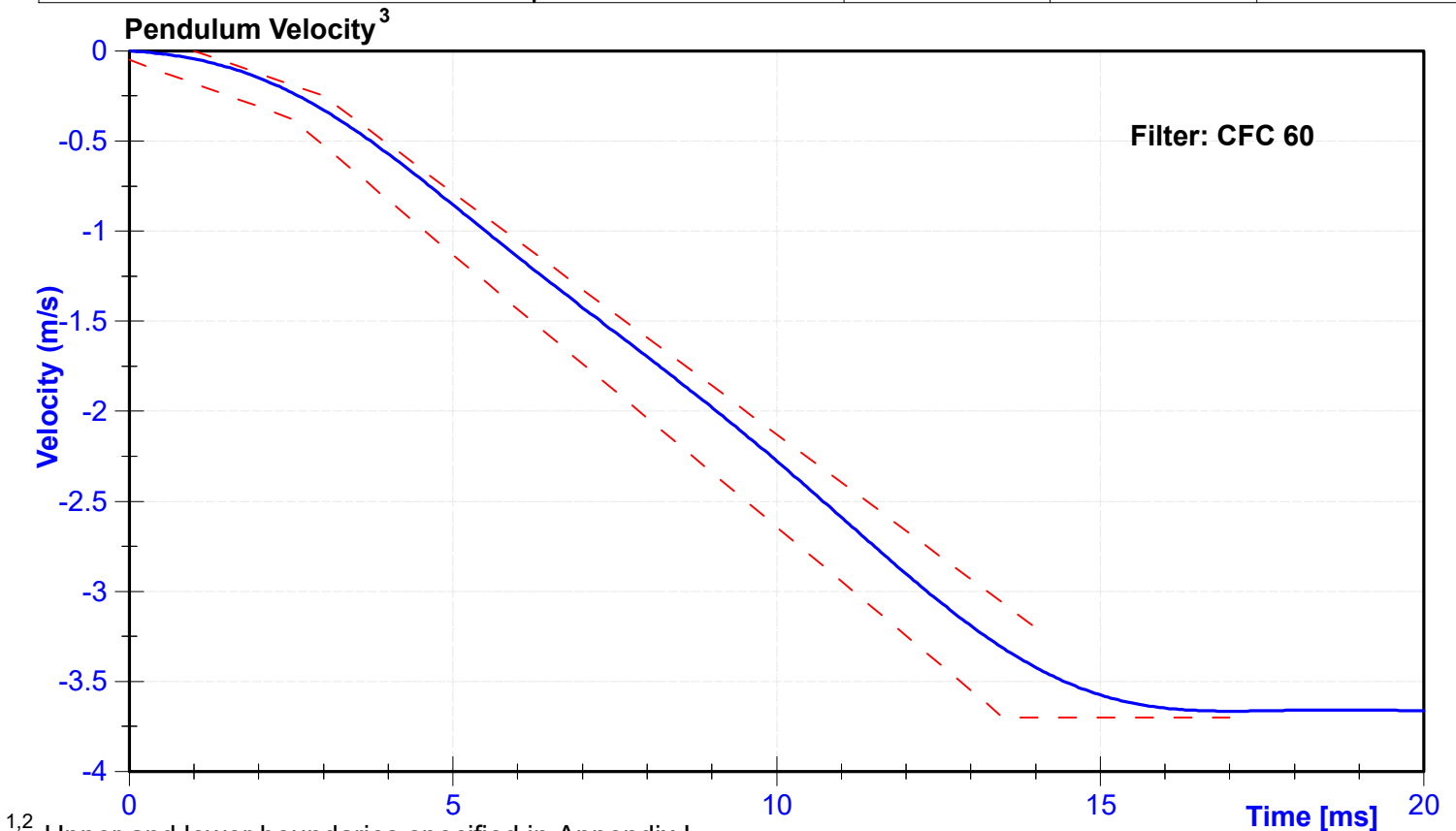
ATD Manufacturer	Denton	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

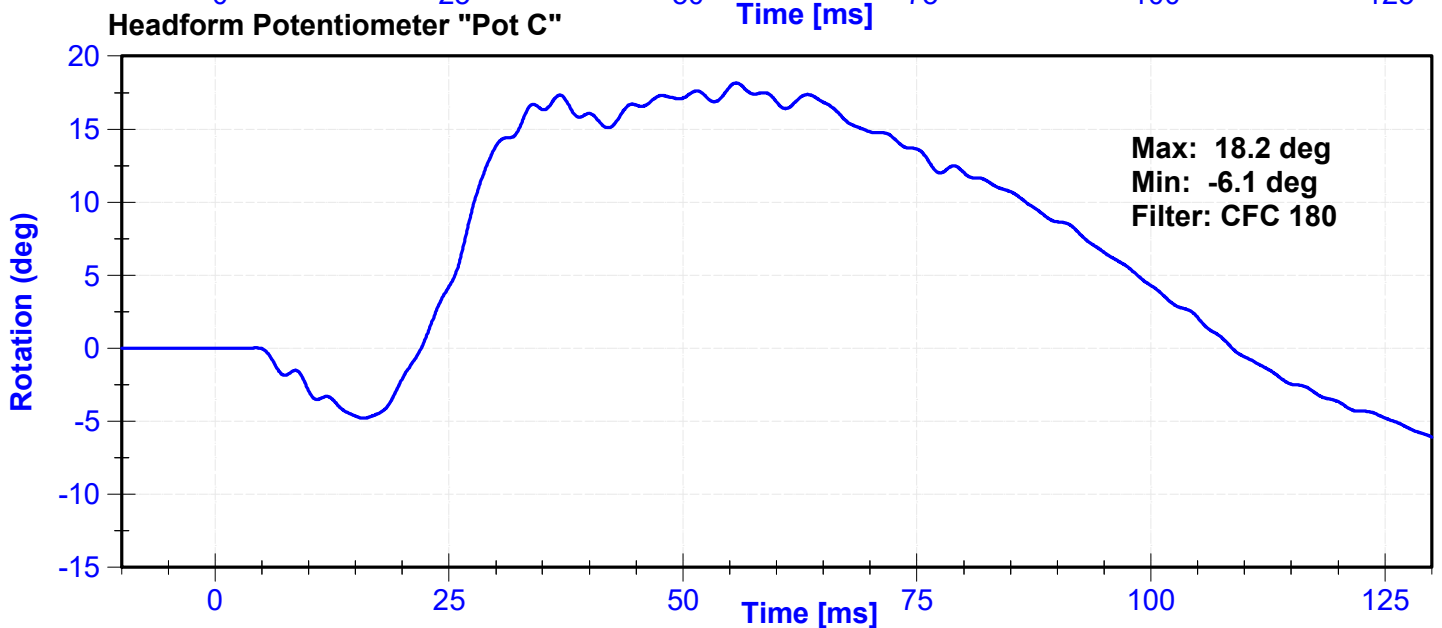
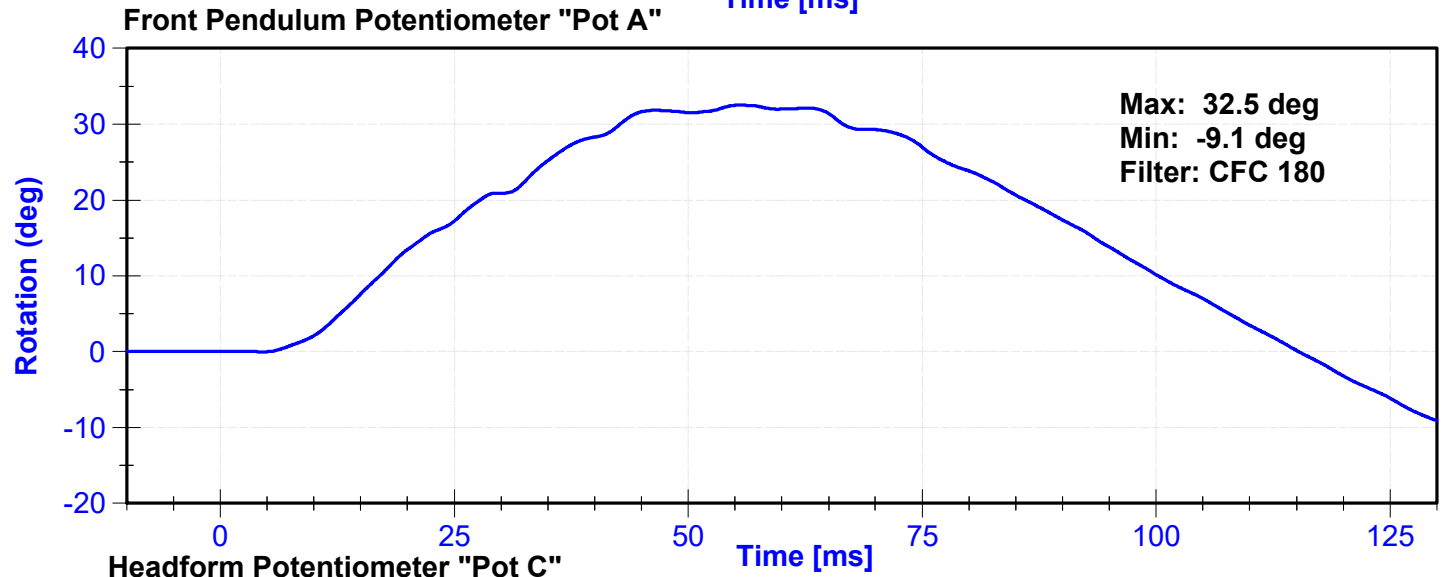
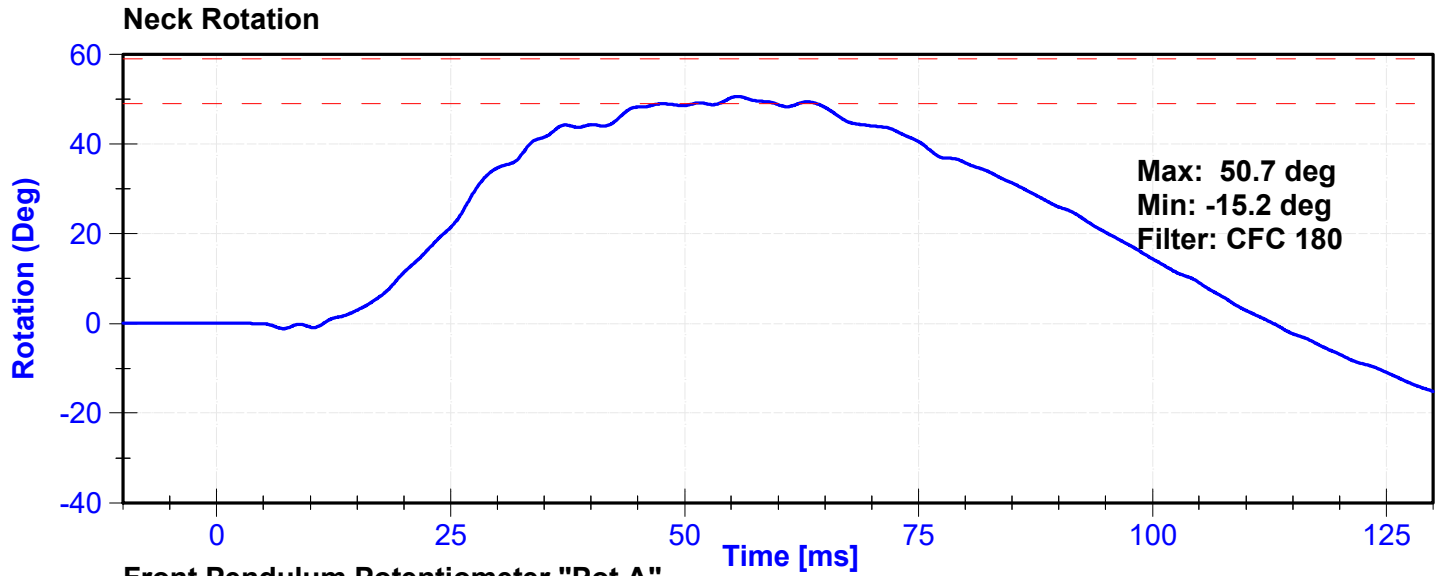
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.6	Pass
Humidity	10	70	%	55	Pass
Velocity	3.3	3.5	m/s	3.46	Pass
Lateral Neck Rotation	49	59	deg	50.7	Pass
Time at Maximum Rotation	54	66	ms	55.7	Pass
Time of Rotation Decay from Maximum	53	88	ms	57.3	Pass
Pendulum Velocity Overall Corridor	Lower Boundary ¹	Upper Boundary ²	m/s	See Plot ³	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	C16646	10/17/2024	10/17/2025
Front Pendulum Potentiometer	Sfernice	2247	9/13/2024	9/13/2025
Headform Potentiometer	Sfernice	095	9/13/2024	9/13/2025





Appendix I

² Upper Boundary Corridor		¹ Lower Boundary Corridor	
Time (ms)	Velocity (m/s)	Time (ms)	Velocity (m/s)
1.0	0.00	0.0	-0.05
3.0	-0.25	2.5	-0.375
14.0	-3.20	13.5	-3.7
		17.0	-3.7

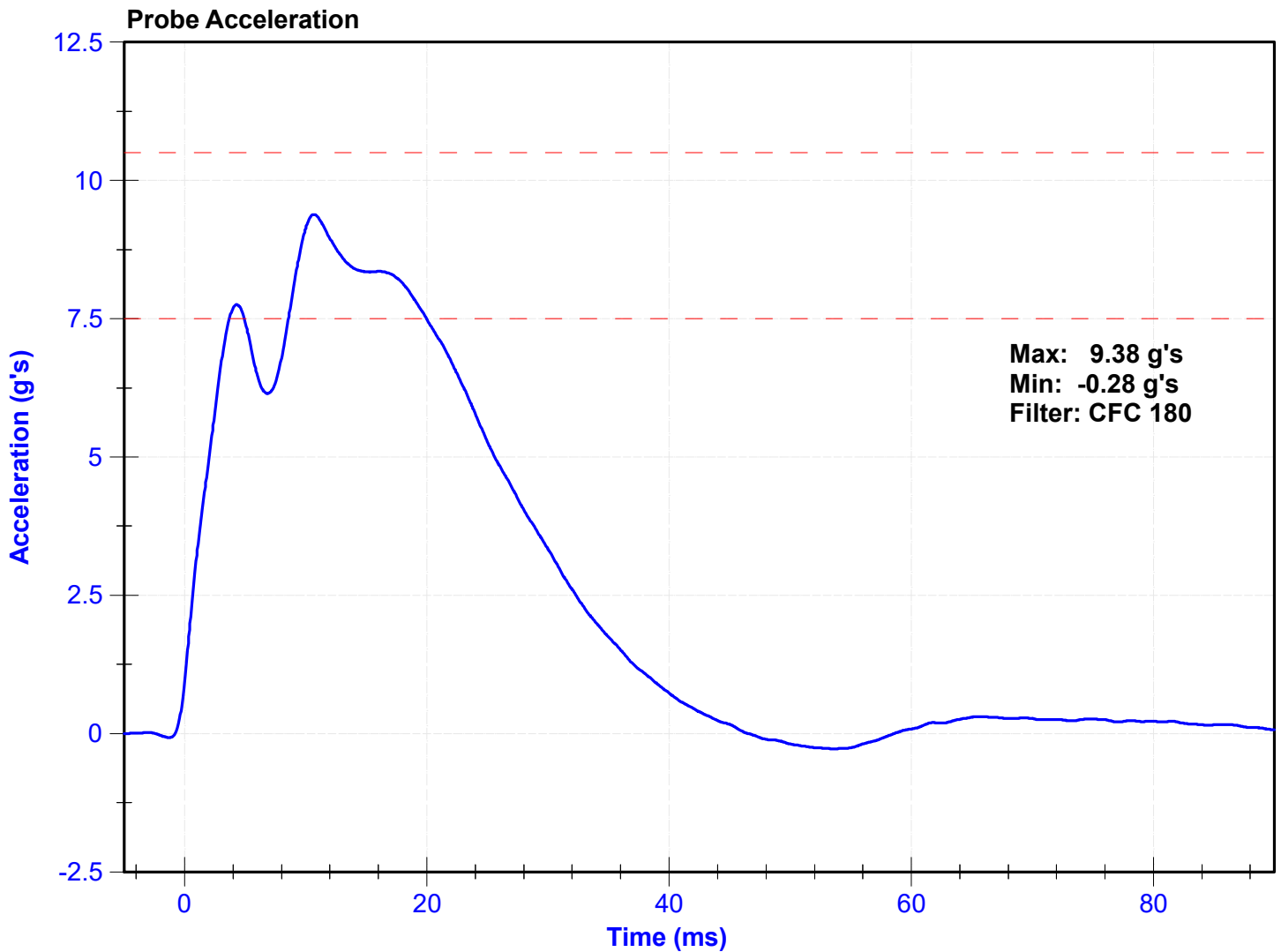
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.4	Pass
Humidity	10	70	%	64	Pass
Velocity	4.2	4.4	m/s	4.26	Pass
Probe Acceleration	7.5	10.5	g's	9.38	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Probe Accelerometer	Endevco	18566	5/7/2025	11/3/2025



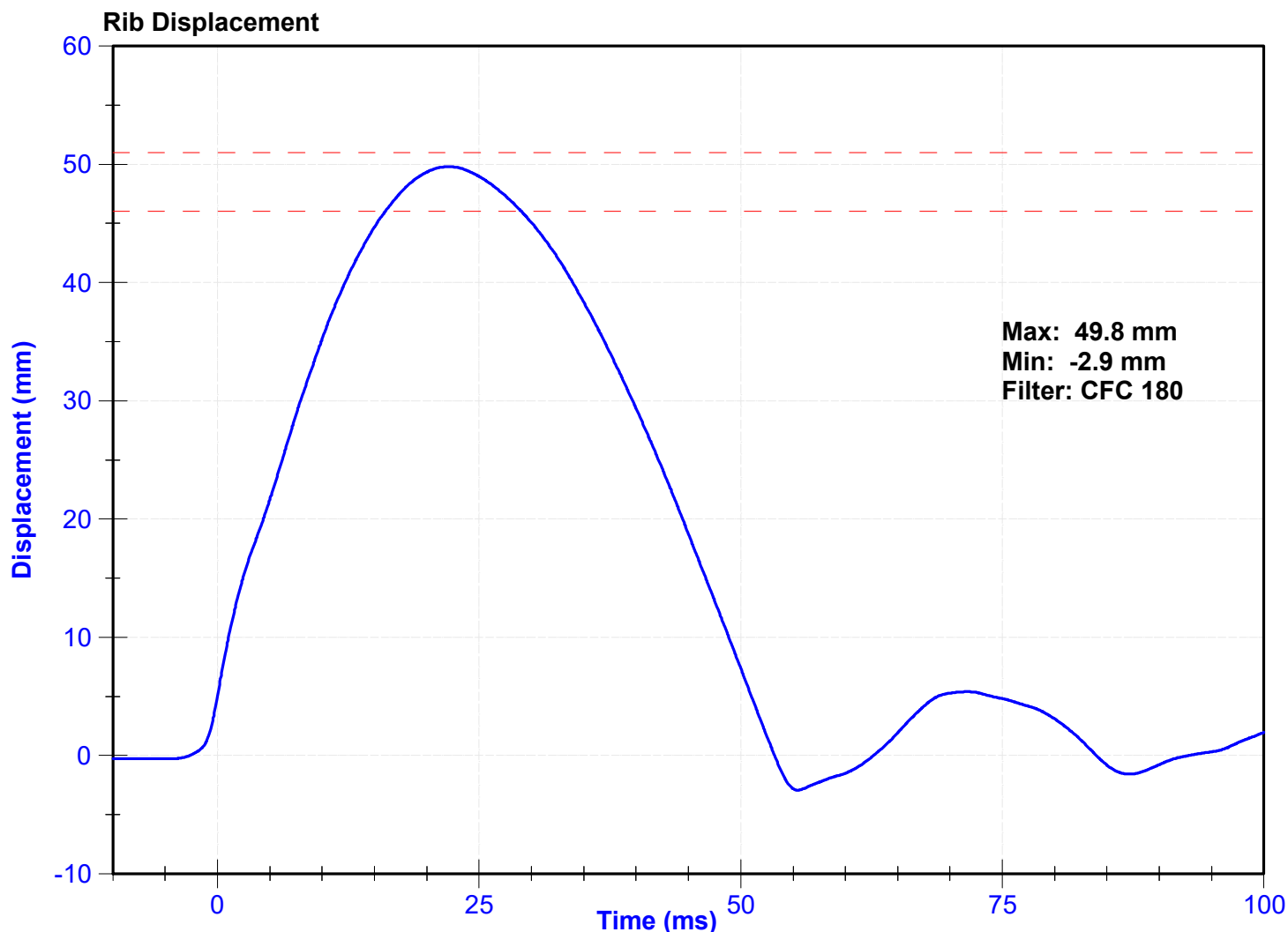
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	46	51	mm	49.8	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	268GFE	6/12/2025	12/11/2025



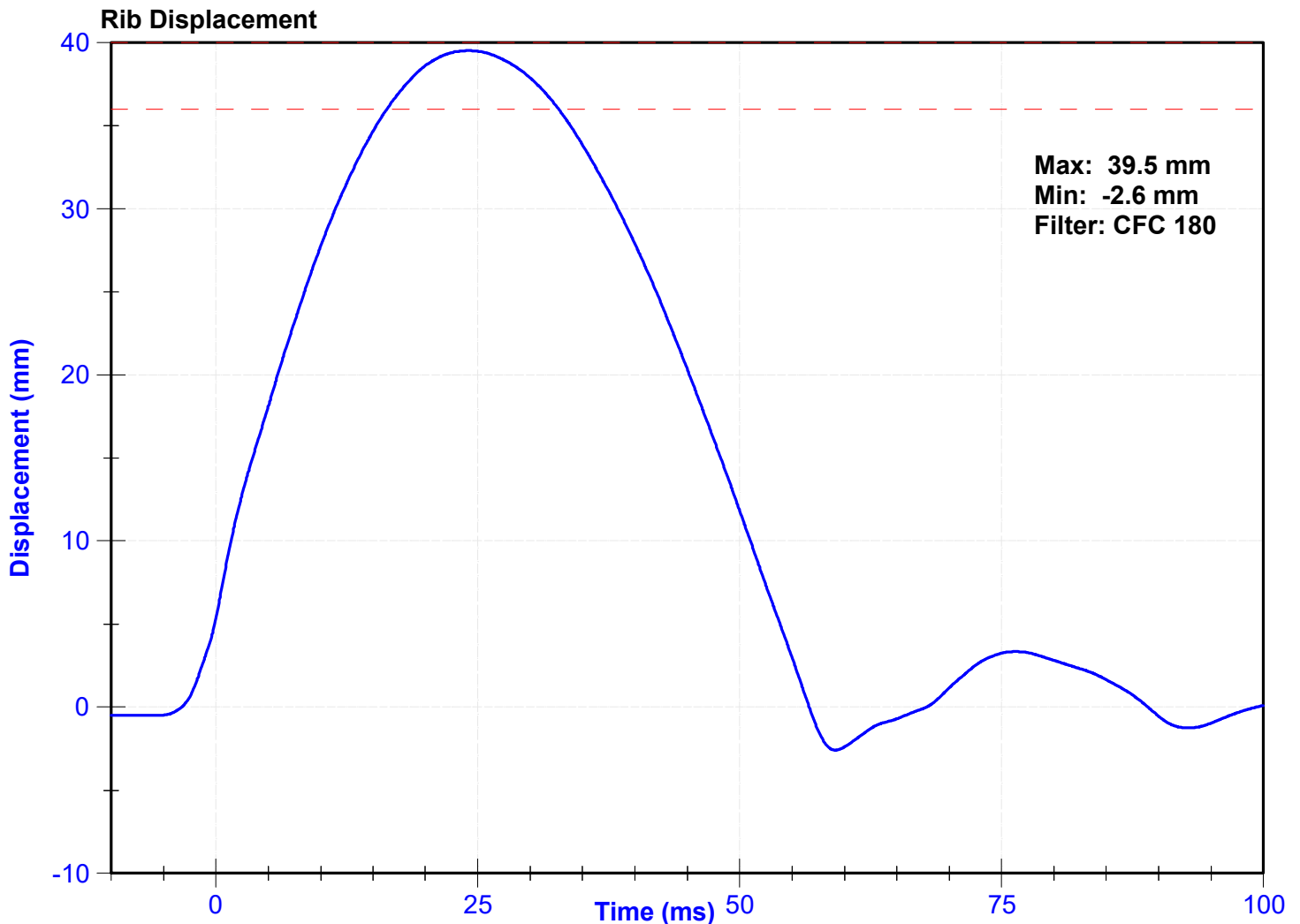
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	36	40	mm	39.5	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	268GFE	6/12/2025	12/11/2025



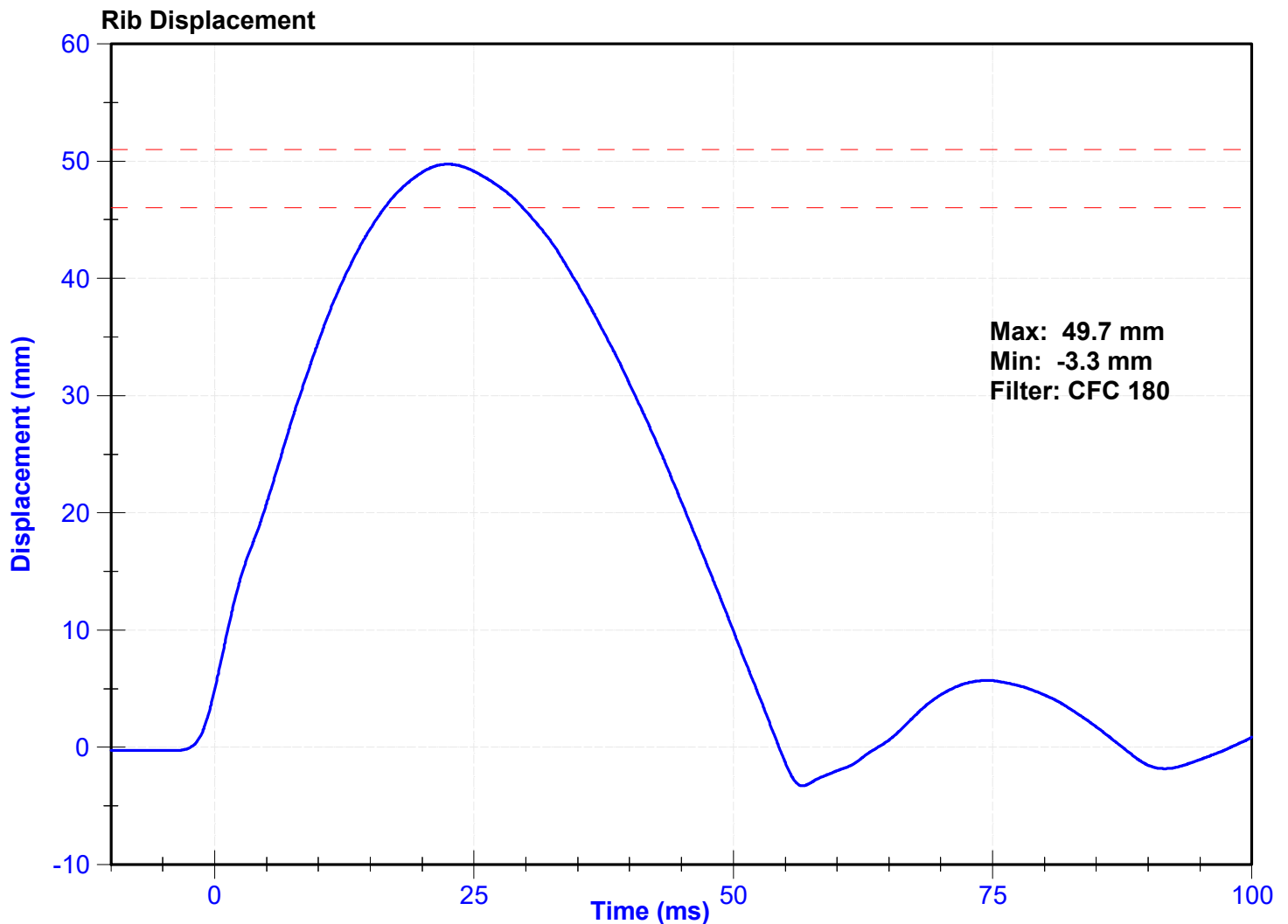
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	46	51	mm	49.7	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	269GFE	6/12/2025	12/11/2025



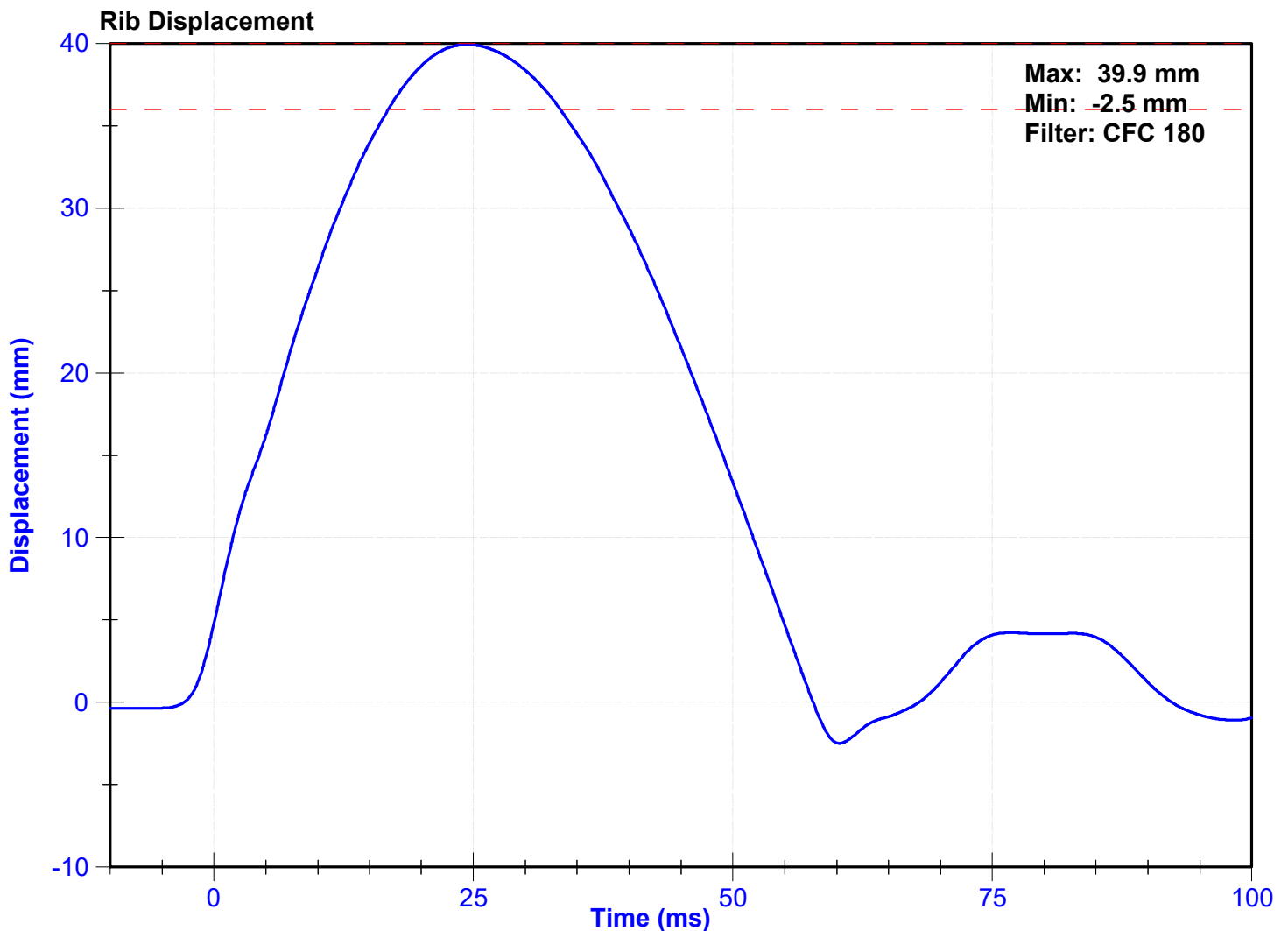
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	36	40	mm	39.9	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	269GFE	6/12/2025	12/11/2025



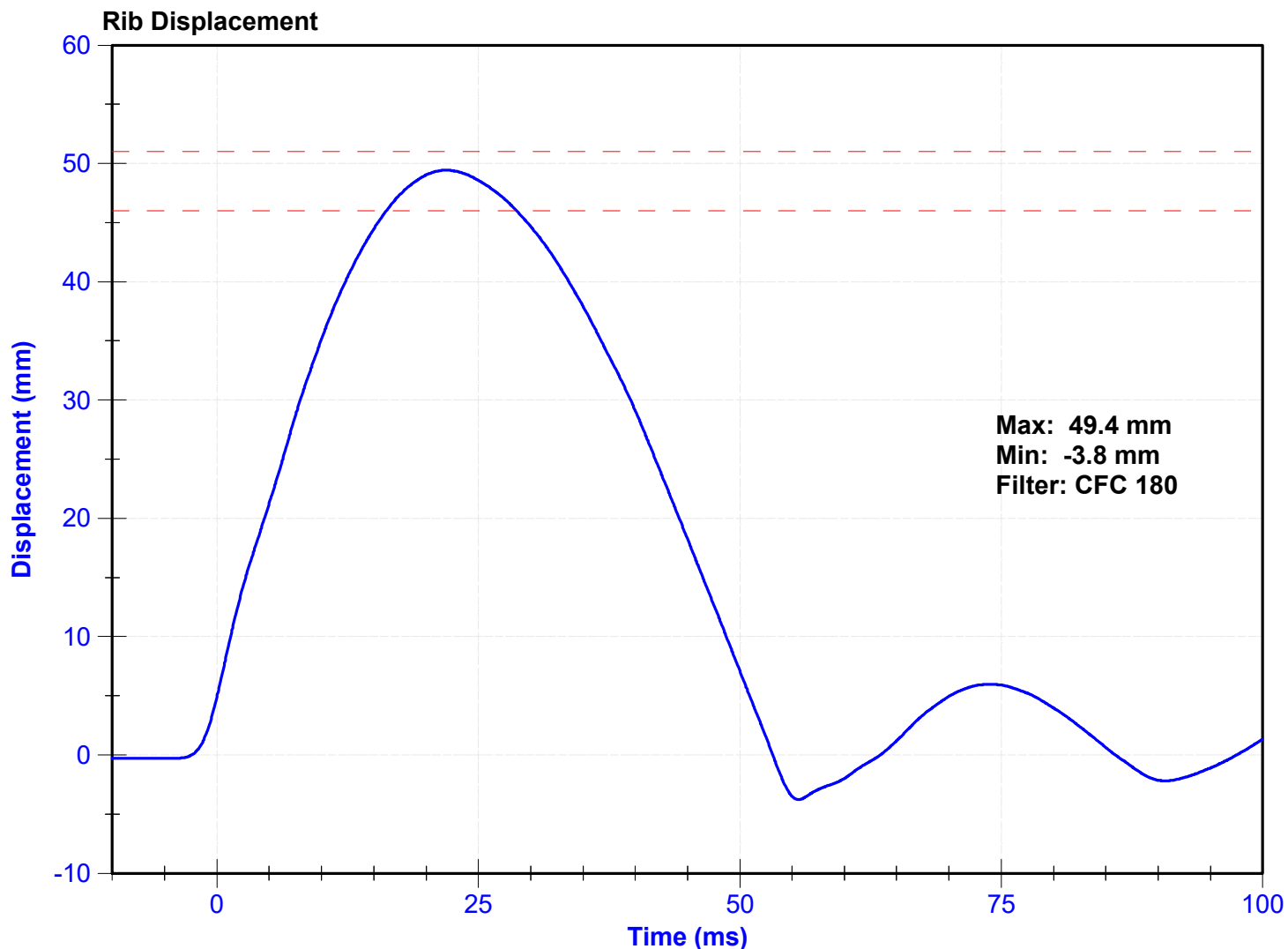
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	46	51	mm	49.4	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	270GFE	6/12/2025	12/11/2025



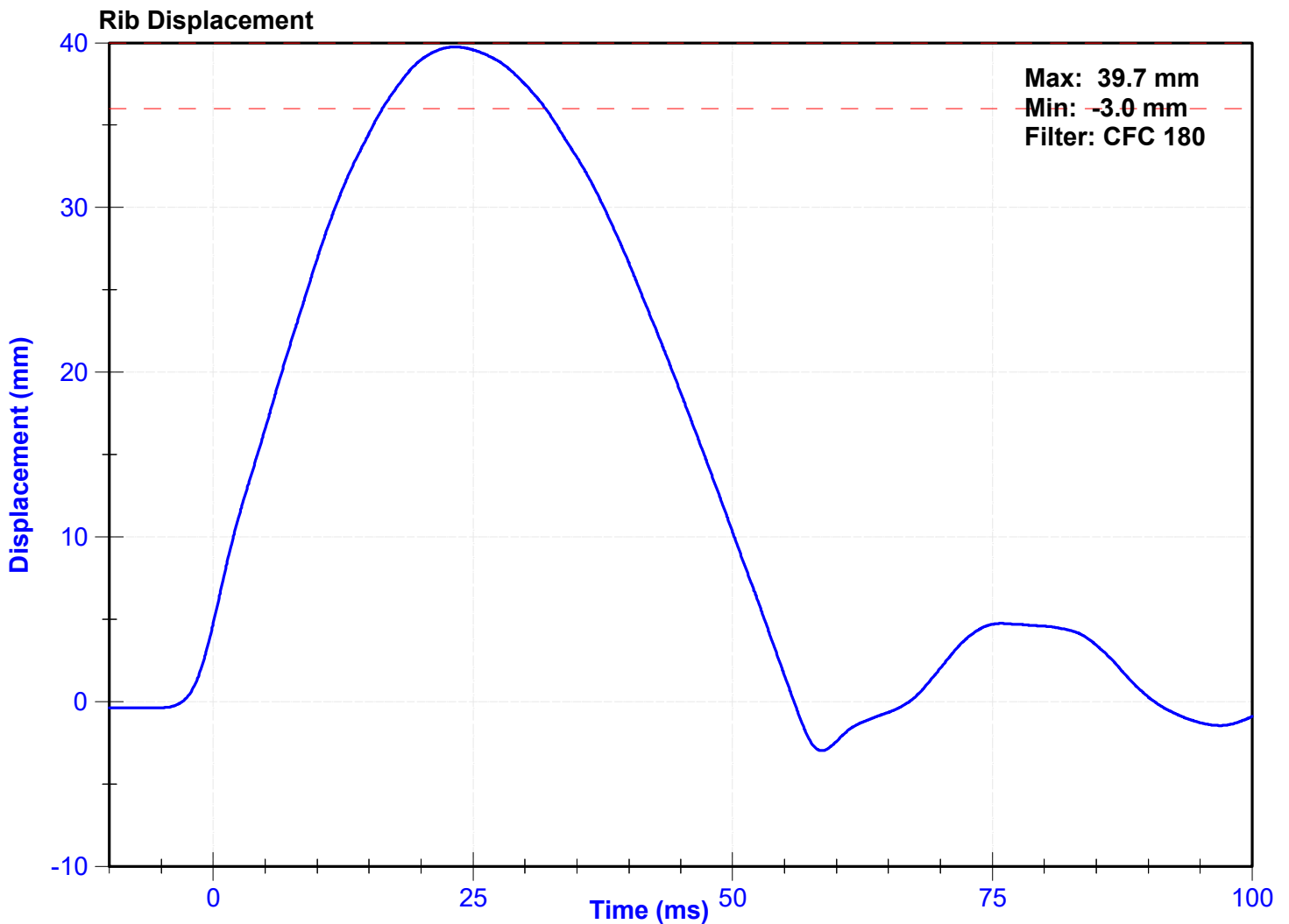
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	22.0	Pass
Humidity	10	70	%	52	Pass
Rib Displacement	36	40	mm	39.7	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Rib Potentiometer	Honeywell	270GFE	6/12/2025	12/11/2025



ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

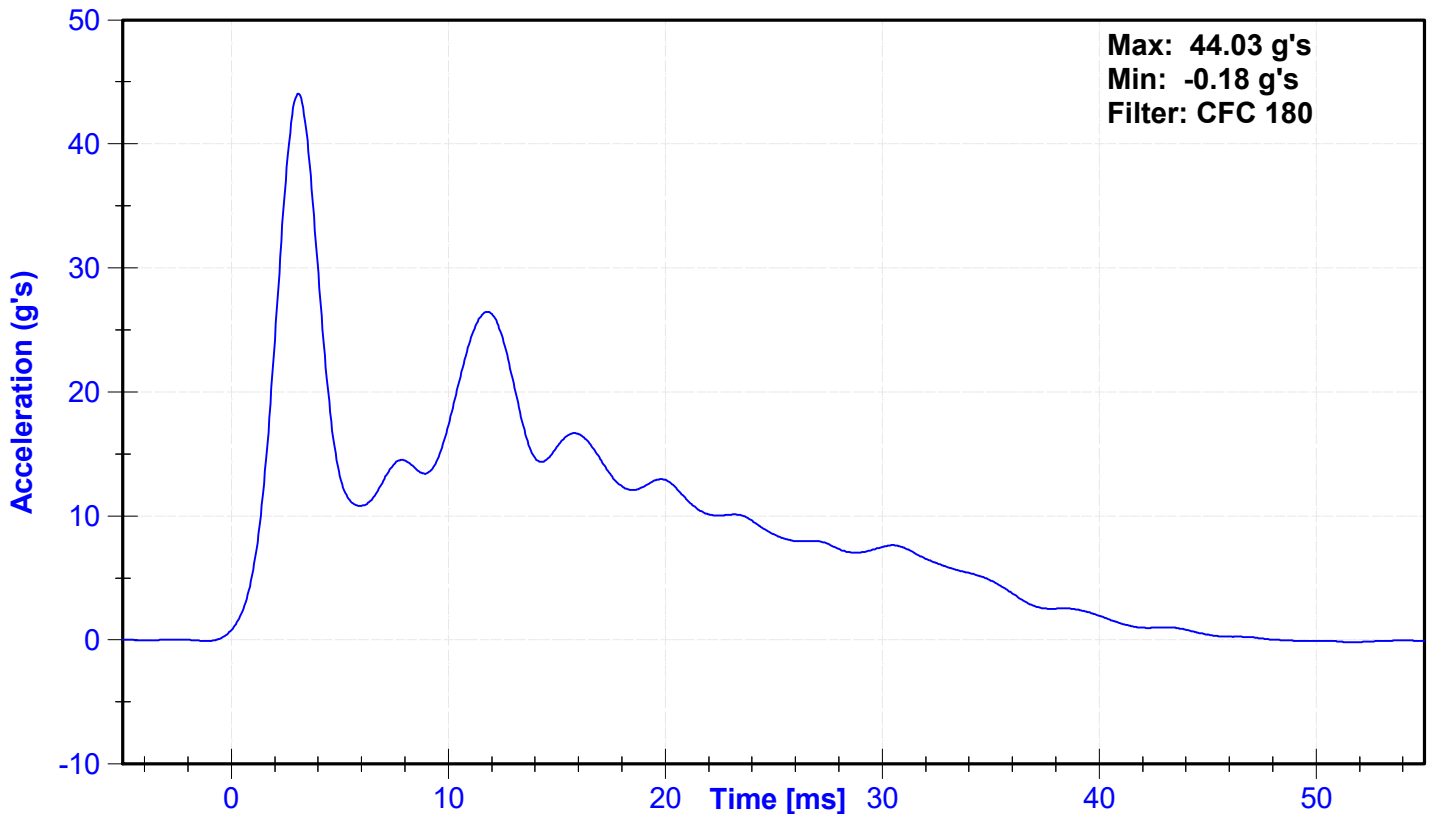
Results

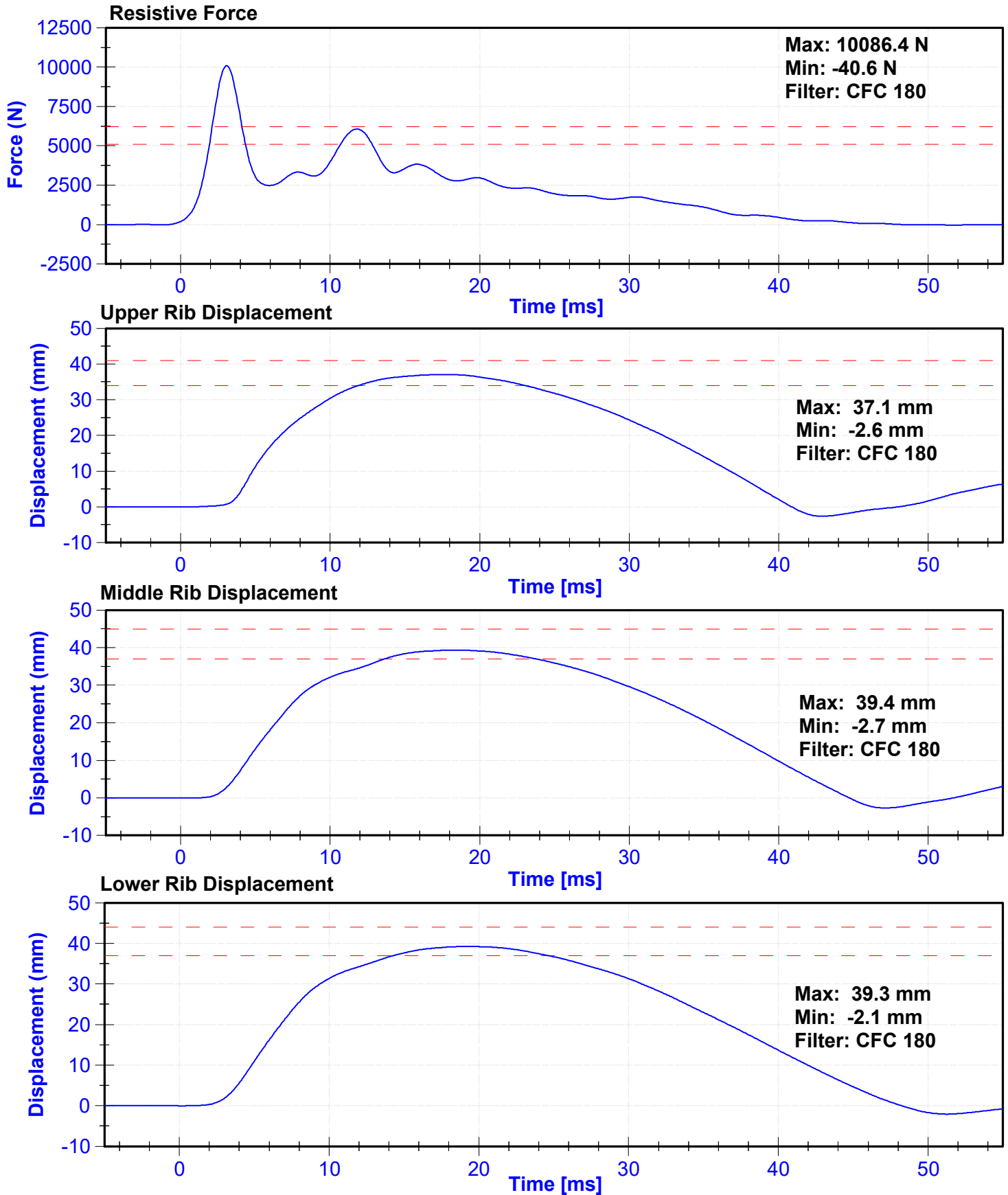
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.4	Pass
Humidity	10	70	%	64	Pass
Velocity	5.4	5.6	m/s	5.51	Pass
Resistive Force after 6ms	5100	6200	N	6061.2	Pass
Upper Thorax Rib Deflection	34	41	mm	37.1	Pass
Mid Thorax Rib Deflection	37	45	mm	39.4	Pass
Lower Thorax Rib Deflection	37	44	mm	39.3	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Probe Accelerometer	Endevco	18566	5/7/2025	11/3/2025
Upper Thorax Rib Potentiometer	Honeywell	268GFE	6/12/2025	12/11/2025
Middle Thorax Rib Potentiometer	Honeywell	269GFE	6/12/2025	12/11/2025
Lower Thorax Rib Potentiometer	Honeywell	270GFE	6/12/2025	12/11/2025

Probe Acceleration





ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

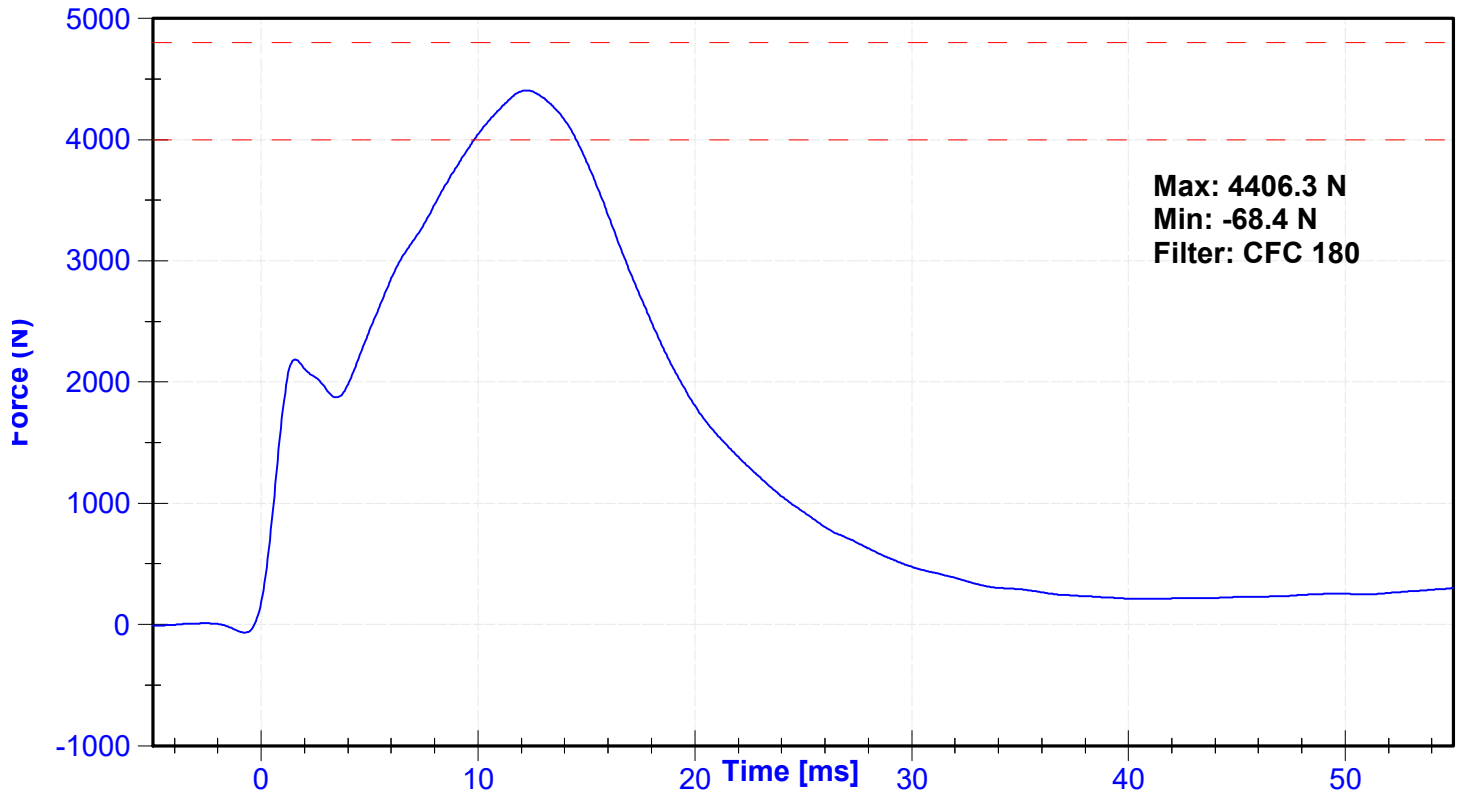
Results

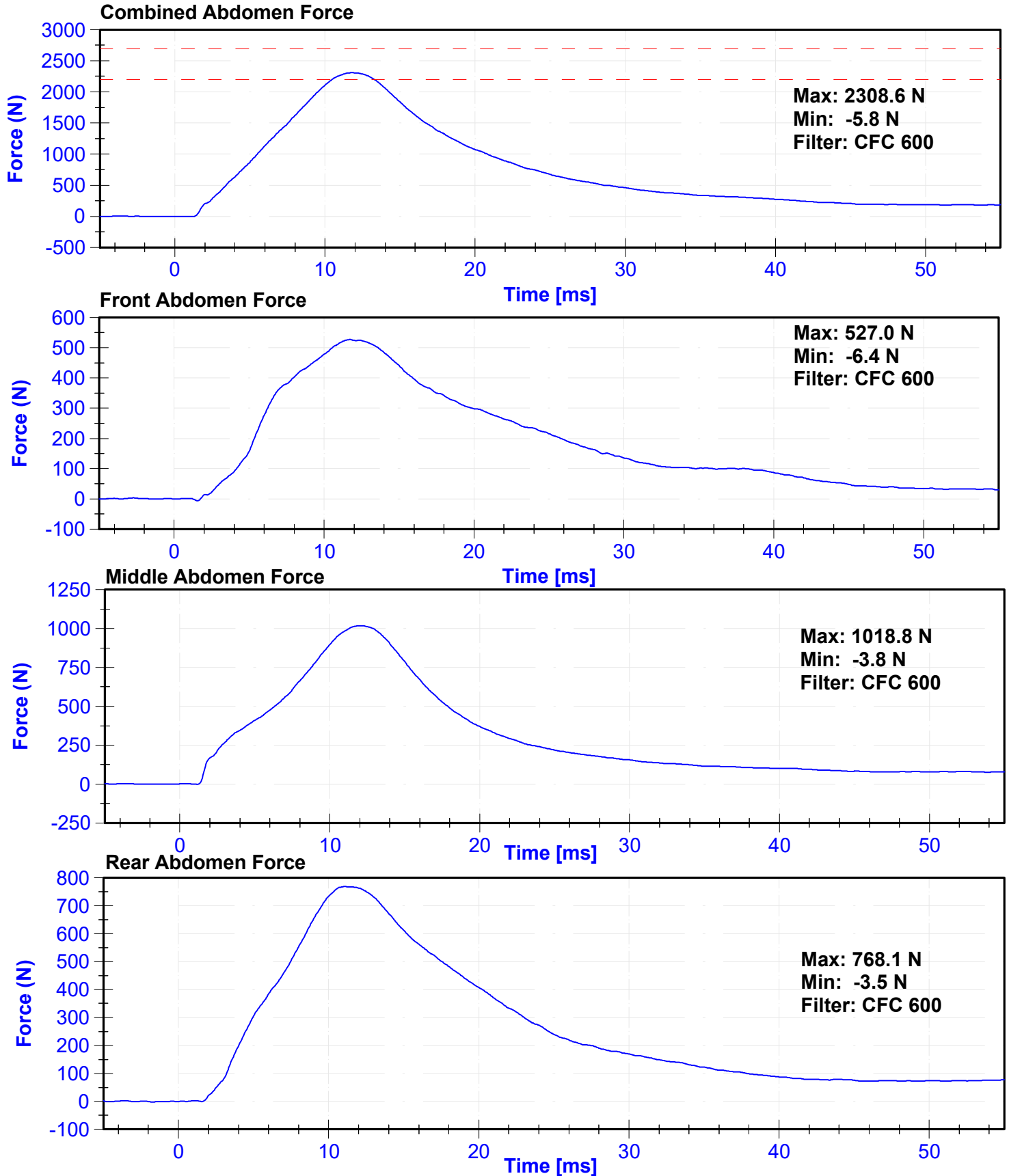
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.4	Pass
Humidity	10	70	%	64	Pass
Velocity	3.9	4.1	m/s	4.01	Pass
Combined Abdomen Force	2200	2700	N	2308.6	Pass
Time at Peak Abdomen Force	10.0	12.3	ms	11.80	Pass
Resistive Probe Force	4000	4800	N	4406.3	Pass
Time at Peak Resistive Force	10.6	13.0	ms	12.25	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	P40997	5/7/2025	11/3/2025
Front Abdomen Load Cell	Denton	1440	11/20/2024	11/20/2025
Middle Abdomen Load Cell	Denton	1525	11/20/2024	11/20/2025
Rear Abdomen Load Cell	Denton	1528	11/20/2024	11/20/2025

Probe Force





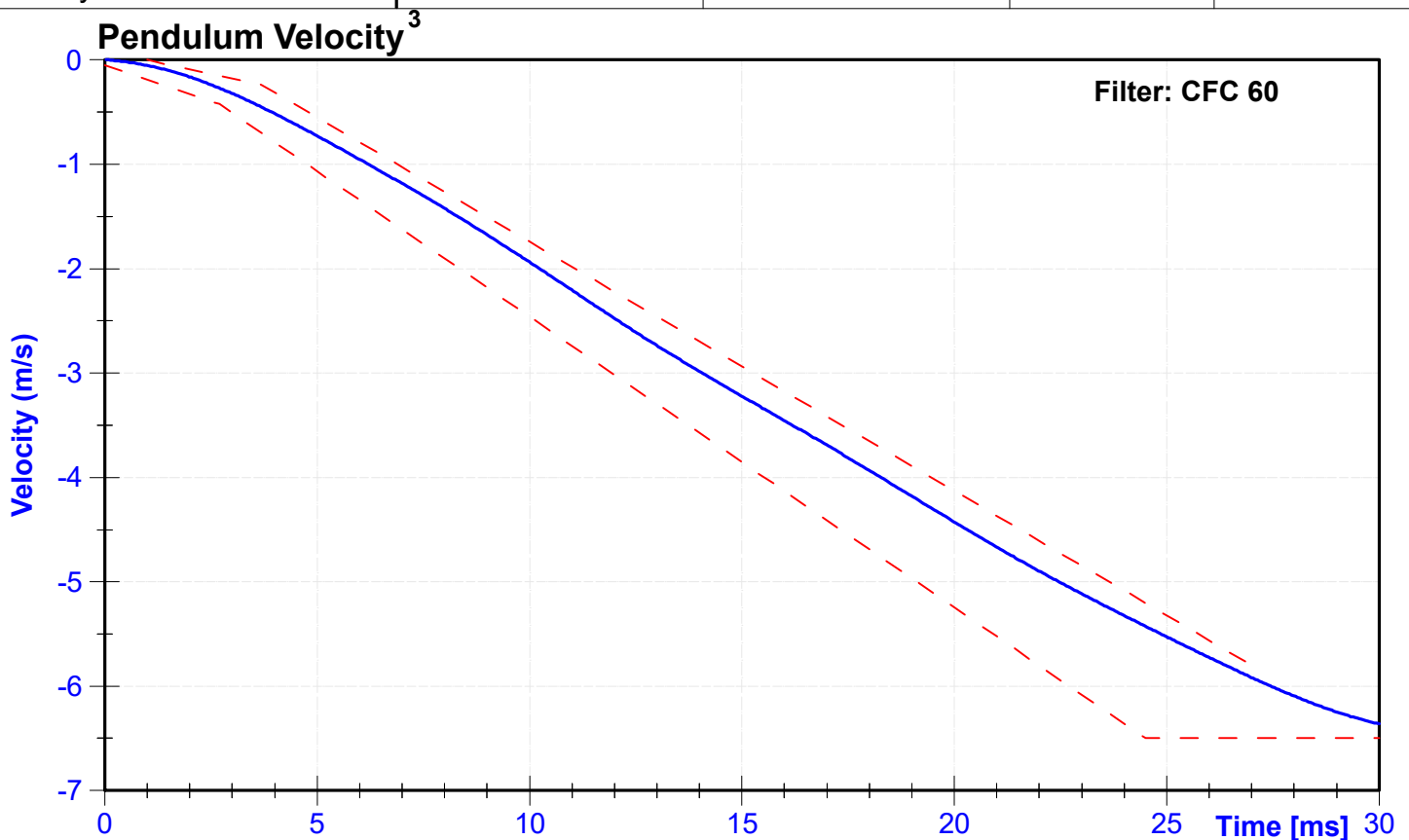
ATD Manufacturer	Denton	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

Results

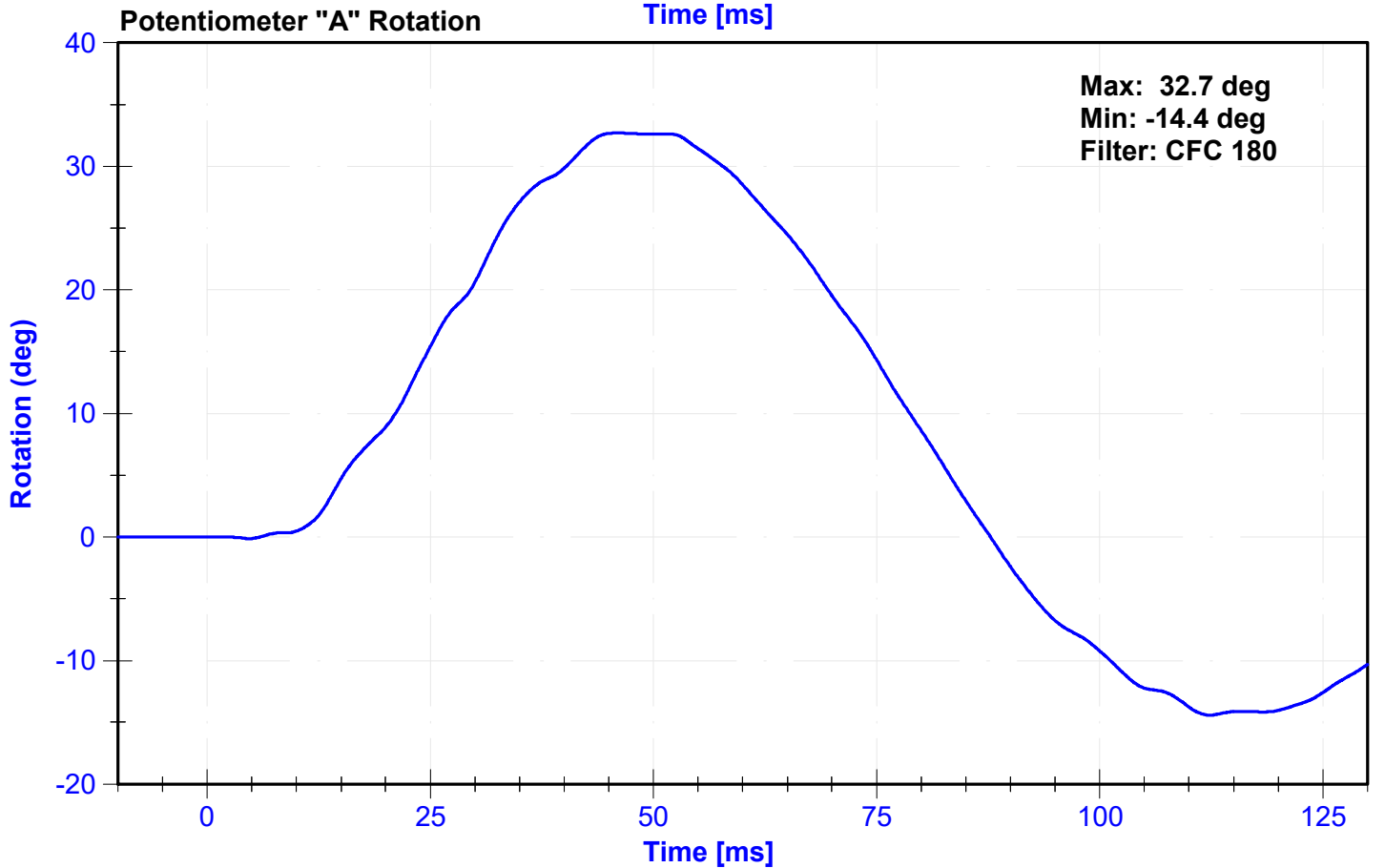
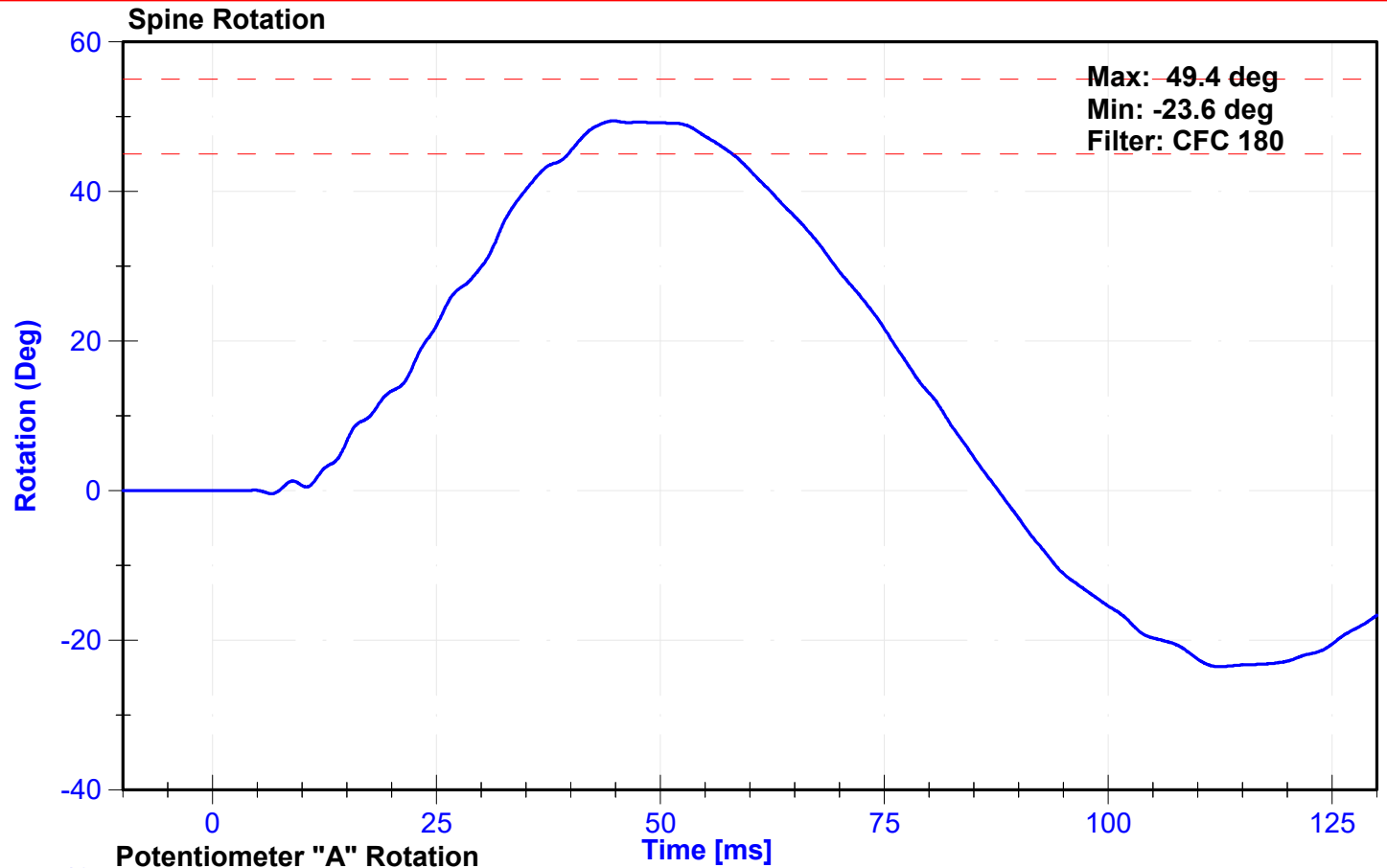
Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.6	Pass
Humidity	10	70	%	55	Pass
Velocity	5.95	6.15	m/s	6.102	Pass
Lateral Spine Rotation	45	55	deg	49.4	Pass
Time at Maximum Rotation	39	53	ms	44.7	Pass
Time of Decay to Zero Degrees	37	57	ms	43.0	Pass
Pendulum Velocity Overall Corridor	Lower Boundary ¹	Upper Boundary ²	m/s	See Plot ³	Pass

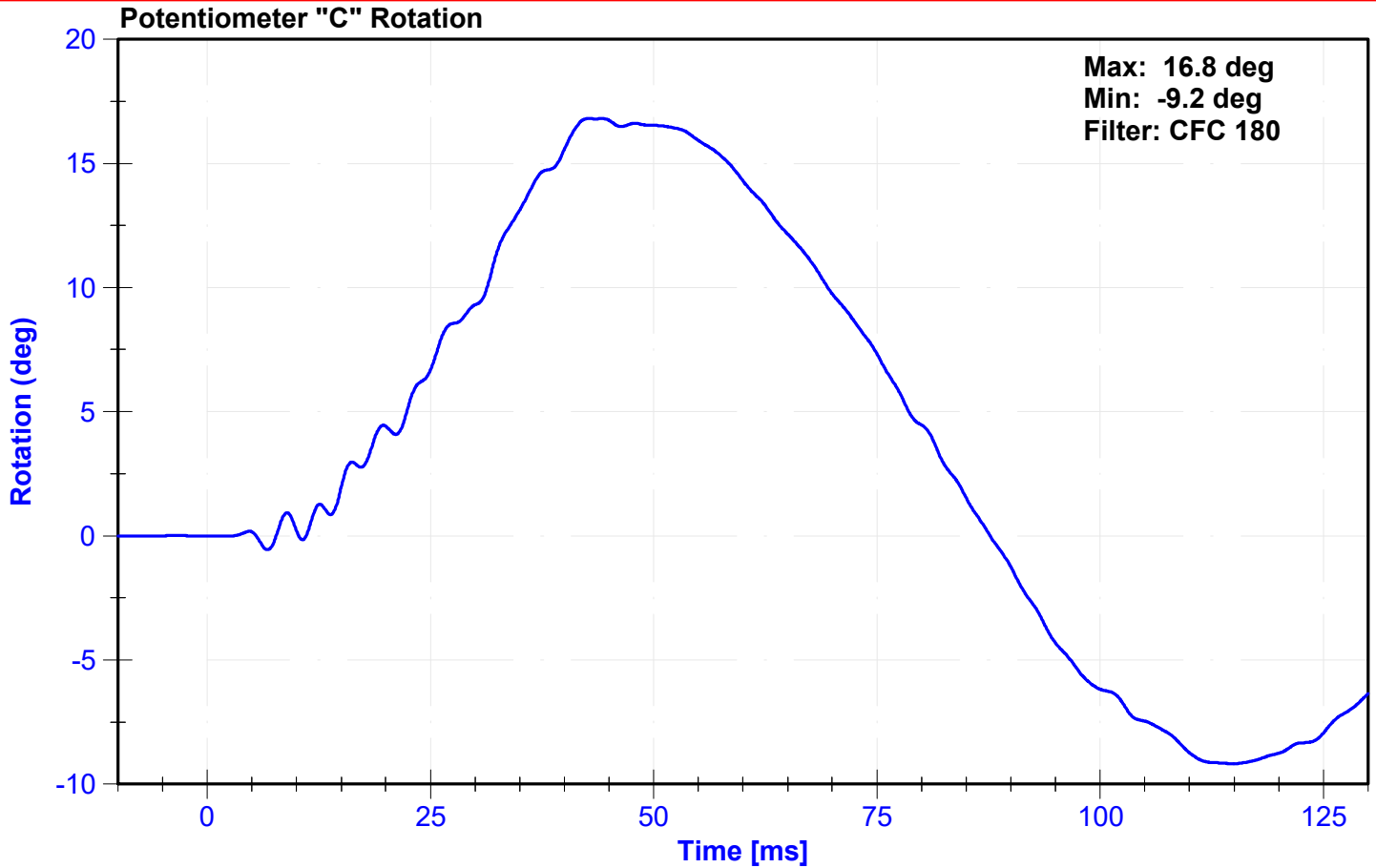
Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	C16646	10/17/2024	10/17/2025
Pendulum "A" Potentiometer	Sfernice	2247	9/13/2024	9/13/2025
Condyle "B" Potentiometer	Sfernice	095	9/13/2024	9/13/2025



^{1,2} Upper and lower boundaries specified in Appendix I





Appendix I

² Upper Boundary Corridor		¹ Lower Boundary Corridor	
Time (ms)	Velocity (m/s)	Time (ms)	Velocity (m/s)
1.0	0.00	0.0	-0.05
3.7	-0.24	2.7	-0.425
27.0	-5.80	24.5	-6.5
		30.0	-6.5

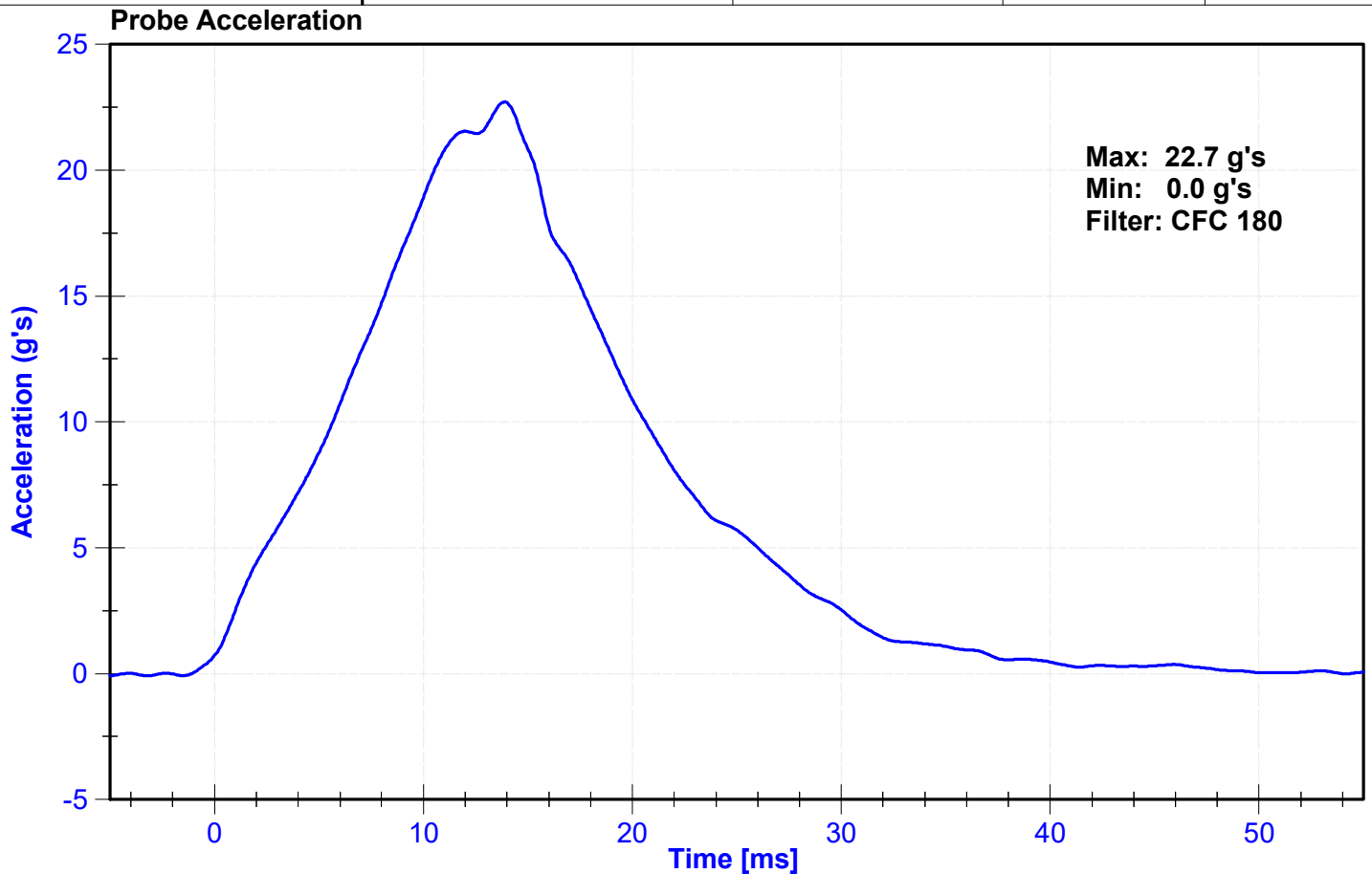
ATD Manufacturer	FTSS	Test Technician	J. Rios
ATD Serial Number	DG5348	Laboratory Supervisor	J. Kinderman

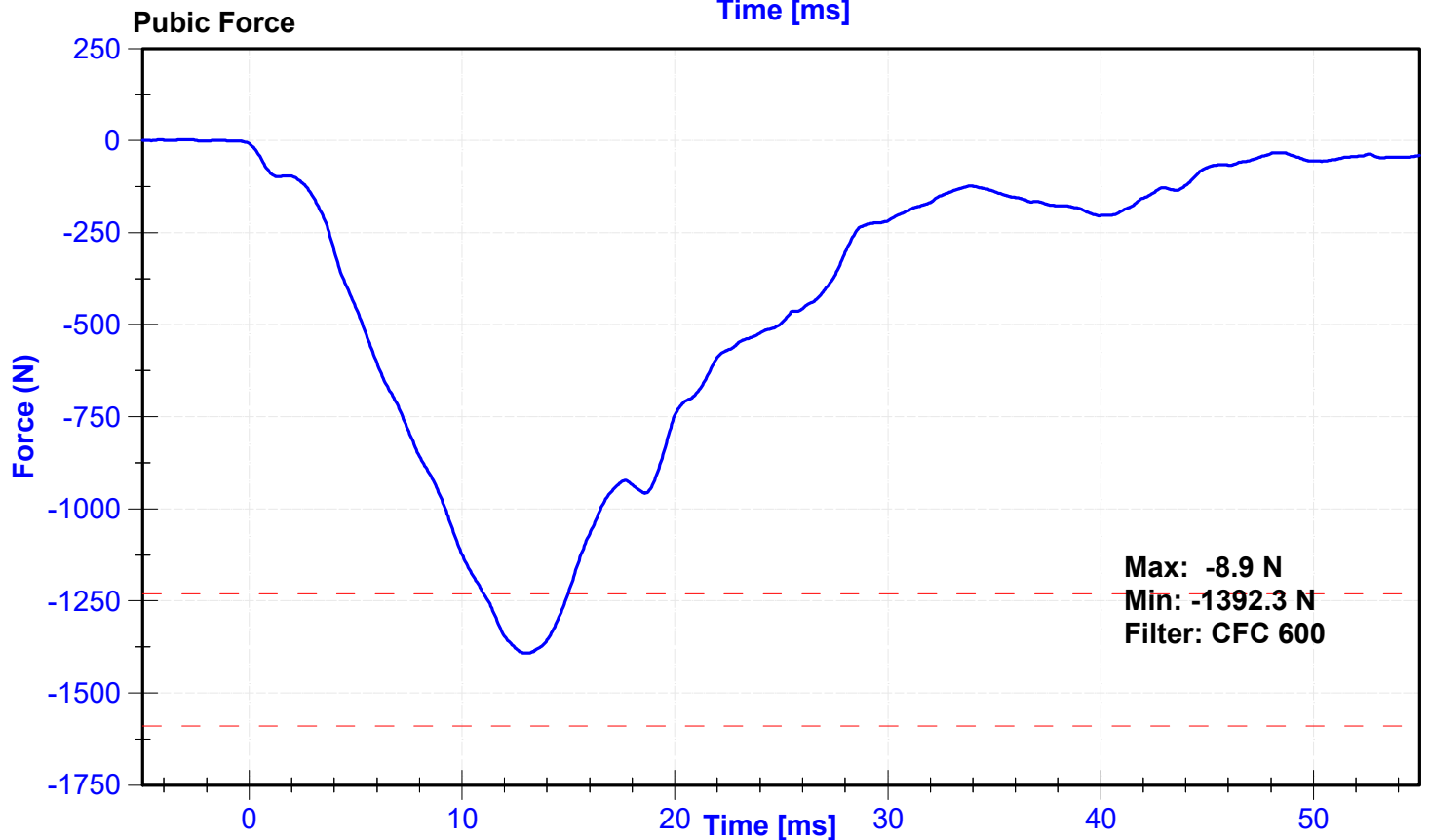
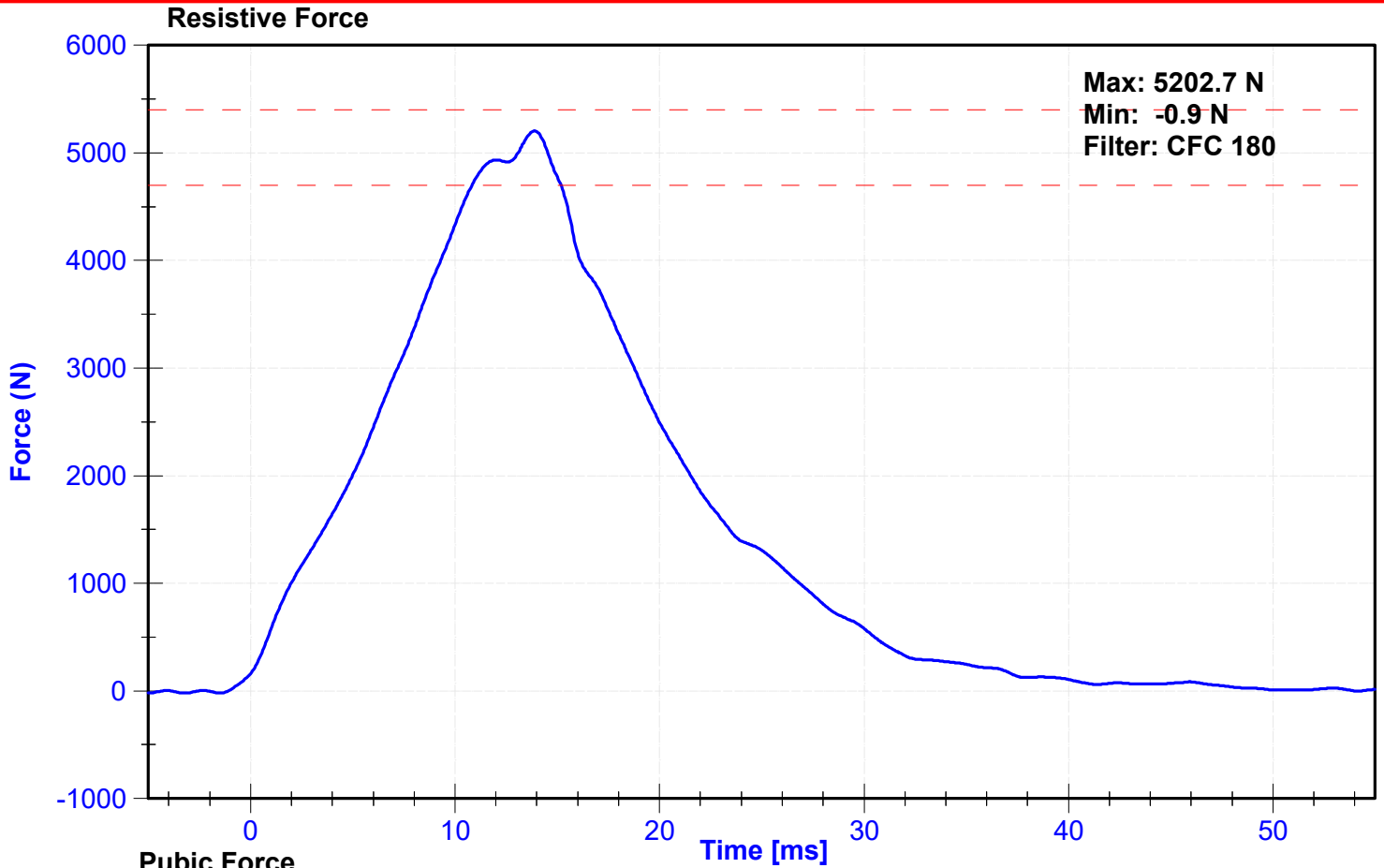
Results

Test Parameter	Minimum Specification	Maximum Specification	Unit	Result	Pass/Fail
Temperature	20.6	22.2	°C	21.4	Pass
Humidity	10	70	%	64	Pass
Velocity	4.2	4.4	m/s	4.26	Pass
Resistive Force	4700	5400	N	5202.7	Pass
Time at Peak Resistive Force	11.8	16.1	ms	13.90	Pass
Pubic Force	-1590	-1230	N	-1392.3	Pass
Time at Peak Pubic Force	12.2	17.0	ms	13.05	Pass

Transducer Calibrations

Channel	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Pendulum Accelerometer	Endevco	18566	5/7/2025	11/3/2025
Pubic Load Cell	Denton	456-FY	11/20/2024	11/20/2025





APPENDIX V

TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA

Table 1 – Dummy Instrumentation (ES-2re)

			ES-2re S/N DG5348		
			Serial Number	Manufacturer	Calibration Date
Head Accelerometers	Primary	X	18613	Endevco	06/11/2025
		Y	18472	Endevco	06/11/2025
		Z	18663	Endevco	06/11/2025
	Redundant	X	18666	Endevco	06/11/2025
		Y	18664	Endevco	06/11/2025
		Z	18675	Endevco	06/11/2025
Thorax Rib Displacement Potentiometers	Upper	Y	268GFE	Honeywell	06/12/2025
	Middle	Y	269GFE	Honeywell	06/12/2025
	Lower	Y	270GFE	Honeywell	06/12/2025
Abdomen Load Cells	Forward	Y	1440	Denton	11/20/2024
	Middle	Y	1525	Denton	11/20/2024
	Rear	Y	1528	Denton	11/20/2024
Lower Spine Accelerometers (T12)		X	P96462	Endevco	02/07/2025
		Y	18532	Endevco	02/07/2025
		Z	18671	Endevco	06/11/2025
Pubic Symphysis Load Cell		Y	456-FY	Denton	11/20/2024

Table 2 – Vehicle Instrumentation

Vehicle Instrumentation		Serial Number	Manufacturer	Calibration Date
Vehicle Center of Gravity	X	G25043	Endevco	06/20/2025
Vehicle Center of Gravity	Y	G21388	Endevco	06/20/2025
Vehicle Center of Gravity	Z	A352357	Measurement Specialties	07/09/2025
Left Floor Sill	Y	G24185	Endevco	04/23/2025
A-Pillar Sill	Y	G22233	Endevco	07/10/2025
A-Pillar Low	Y	G25861	Endevco	06/23/2025
A-Pillar Mid	Y	G26635	Endevco	07/07/2025
B-Pillar Sill	Y	G24981	Endevco	07/08/2025
B-Pillar Low	Y	A335475	Measurement Specialties	06/20/2025
B-Pillar Mid	Y	G26636	Endevco	07/07/2025
Driver Seat	Y	A398647	Measurement Specialties	06/24/2025
Engine Top	X	G23636	Endevco	04/14/2025
Engine Top	Y	G23640	Endevco	04/14/2025
Firewall	Y	A398296	Measurement Specialties	02/20/2025
Right Roof	Y	G26987	Endevco	05/13/2025
Right Floor Sill	Y	A280965	Measurement Specialties	05/15/2025
Rear Floorpan	X	G22696	Endevco	04/11/2025
Rear Floorpan	Y	G23698	Endevco	04/11/2025