

REPORT NUMBER: SideNCAPMDB-KAR-25-010

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

**SUBARU CORPORATION
2026 SUBARU CROSSTREK HYBRID 5-DOOR MPV**

NHTSA No: O20265501

**PREPARED BY:
APPLUS+ IDIADA KARCO ENGINEERING, LLC.
9270 HOLLY ROAD
ADELANTO, CA 92301**



JANUARY 6, 2026

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF CRASHWORTHINESS STANDARDS
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FINAL REPORT ACCEPTANCE BY OCWS:

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

Date: _____

COTR, New Car Assessment Program
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15. Supplementary Notes																																																					
16. Abstract A 61.9 km/h 90° Moving Deformable Barrier NCAP Side Impact Test was conducted on the subject 2026 Subaru Crosstrek Hybrid 5-Door MPV in accordance with the specifications of the Office of Crashworthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at the Applus IDIADA KARCO Engineering, LLC. facility in Adelanto, California on December 10, 2025. The impact velocity of the Moving Deformable Barrier was 61.75 km/h and the outside ambient temperature at the struck (driver's) side of the vehicle was 16.7°C. The target vehicle's maximum post-test static crush was 156 mm located at level 3. The test vehicle's occupant performance data is as follows: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <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>72.389</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>44</td> <td>9.237</td> </tr> <tr> <td>Total Abdominal Force</td> <td>N</td> <td>2500</td> <td>288.638</td> </tr> <tr> <td>Pubic Symphysis Force</td> <td>N</td> <td>6000</td> <td>978.733</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Measurement Description</th> <th colspan="3">Passenger ATD (SID-IIs)</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>70.103</td> </tr> <tr> <td>Resultant Lower Spine Acceleration</td> <td>g</td> <td>82</td> <td>67.695</td> </tr> <tr> <td>Total Pelvic Force (Sum of Acetubular and Iliac Forces)</td> <td>N</td> <td>5525</td> <td>2557.559</td> </tr> <tr> <td>Maximum Thoracic Rib Deflection</td> <td>mm</td> <td>38*</td> <td>7.550</td> </tr> <tr> <td>Maximum Abdominal Rib Deflection</td> <td>mm</td> <td>45*</td> <td>11.757</td> </tr> </tbody> </table>				Measurement Description	Driver ATD (ES-2re)			Units	IARV	Result	Head Injury Criteria (HIC ₃₆)		1000	72.389	Maximum Thoracic Rib Deflection	mm	44	9.237	Total Abdominal Force	N	2500	288.638	Pubic Symphysis Force	N	6000	978.733	Measurement Description	Passenger ATD (SID-IIs)			Units	IARV	Result	Head Injury Criteria (HIC ₃₆)		1000	70.103	Resultant Lower Spine Acceleration	g	82	67.695	Total Pelvic Force (Sum of Acetubular and Iliac Forces)	N	5525	2557.559	Maximum Thoracic Rib Deflection	mm	38*	7.550	Maximum Abdominal Rib Deflection	mm	45*	11.757
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*Proposed IARV

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SECTION 1

TEST PURPOSE AND PROCEDURE

This moving deformable barrier side impact test is part of the MY 2026 New Car Assessment Program Side Impact Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract number 693JJ920D000015. The purpose of this test is to generate comparative side impact performance in a 2026 Subaru Crosstrek Hybrid 5-Door MPV. The side impact test was conducted in accordance with the Office of Crashworthiness Standard's Laboratory Test Procedure dated March 2020.

SECTION 2

SUMMARY OF TEST RESULTS

A 2026 Subaru Crosstrek Hybrid 5-Door MPV was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 61.75 km/h (38.37 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by Applus IDIADA KARCO Engineering, LLC. in Adelanto, California, on December 10, 2025. Pre- and post-test photographs of the test vehicle, the MDB and the dummies (ES-2re and SID-IIs) are included in Appendix A of this report.

Dummies were placed in the driver and left rear designated seating position according to instructions specified in the OCWS Side Impact Laboratory Test Procedure, dated March 2020. The side impact event was documented by 11 cameras. Camera locations are included in Data Sheet No. 5 of this report.

The dummies were instrumented in the following manner:

DRIVER ATD (ES-2re)

Primary and redundant head CG tri-axial accelerometers

Chest upper rib, middle rib and lower rib y-axis displacement potentiometers

Abdomen forward, middle, and rear y-axis load cells

Lower spine (12) tri-axial accelerometers

Pubic symphysis y-axis load cell

PASSENGER ATD (SID-IIs)

Primary and redundant head CG tri-axial accelerometers

Head triaxial angular rate sensors

Chest upper rib, middle rib and lower rib y-axis displacement potentiometers

Abdomen upper rib and lower rib y-axis displacement potentiometers

Lower spine (12) tri-axial accelerometers

Acetabulum and iliac wing y-axis load cells

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

Dummy injury readings were recorded as follows:

Measurement Description	Units	Driver ATD (ES-2re)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	72.389
Maximum Thoracic Rib Deflection	mm	44	9.237
Combined Abdominal Force	N	2500	288.638
Pubic Symphysis Force	N	6000	978.733
Lower Spine (T12) Resultant Acceleration	g	82*	17.684

**Proposed IARV*

Measurement Description	Units	Passenger ATD (SID-IIs)	
		Threshold	Result
Head Injury Criteria (HIC ₃₆)		1000	70.103
Lower Spine (T12) Resultant Acceleration	g	82	67.695
Total Pelvic Force (sum of acetabular and iliac forces)	N	5525	2557.559
Maximum Thoracic Rib Deflection	mm	38*	7.550
Maximum Abdominal Rib Deflection	mm	45*	11.757

**Proposed IARV*

Supplemental restraint information is given below:

Restraint Type	Left Front (Driver)		Left Rear (Passenger)	
	Occupant Location 1		Occupant Location 4	
	Mounted	Deployed	Mounted	Deployed
Frontal Air Bag	Yes	No		
Knee Air Bag	Yes	No		
Side Air Bag 1 (Curtain)	Yes	Yes	Yes	Yes
Side Air Bag 2 (Torso/Pelvis)	Yes	Yes	Yes	Yes
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes	Yes	Yes	Yes

GENERAL COMMENTS:

None.

SECTION 3

OCCUPANT AND VEHICLE INFORMATION/DATA SHEETS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

CONVERSION FACTORS

Quantity	Typical Application	Std Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	miles/hr	km/hr	1.609344
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.574
Pressure	Tire Pressures	lbf/in ²	kPa	6.895
Temperature	General Use	°F	°C	$=(T_f - 32)/1.8$
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf-ft	N•m	1.355

DATA SHEET NO. 1

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA Number	O20265501
Model Year	2026
Make	Subaru
Model	Crosstrek Hybrid
Body Style	5-Door MPV
VIN	JF2GUSGD6T8206499
Body Color	Magnetite Gray Pearl
Odometer Reading (km / mi)	14/9
Engine Displacement (L)	2.5
Type / No. of Cylinders	4 Cylinder Boxer
Engine Placement	Transverse
Transmission Type	Lineartronic CVT
Transmission Speeds	8
Overdrive	Yes
Final Drive	AWD
Roof Rack	No
Sunroof / T-Top	Yes (Moonroof)
Running Boards	No
Tilt Steering Wheel	Yes
Power Seats	Yes
Anti-Lock Brakes (ABS)	Yes

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

Does Owner's Manual provide instructions to turn off automatic door locks?

Yes, Page 145

DATA FROM CERTIFICATION LABEL

Manufactured By	Subaru Corporation
Date of Manufacture	09/25
Vehicle Type	MPV/VTUM

GVWR (kg)	2352
GAWR Front (kg)	1300
GAWR Rear (kg)	1286

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

Measured Parameter	Front	Rear	Third	Total
Designated Seating Capacity	2	3		5
Capacity Weight (VCW) (kg)				408.0
DSC x 68 (kg)				340.0
Cargo Weight (RCLW) (kg)				68.0

**For trucks or MPVs, if A-B>136, RCLW=136 kg

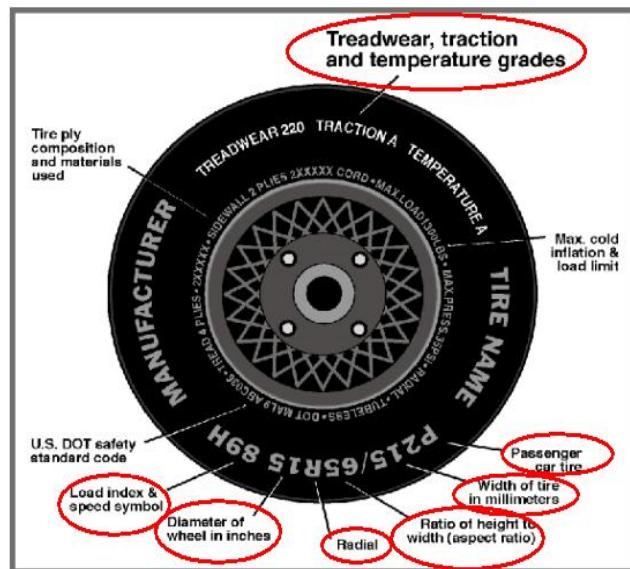
VEHICLE SEAT TYPE

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

DATA SHEET NO. 1 ... (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



VEHICLE TIRE INFORMATION

Measured Parameter	Front	Rear
Max. Tire Pressure (kPa)	350	350
Cold Pressure (kPa)	240	230
Recommended Tire Size	225/55 R18	225/55 R18
Tire Size on Vehicle	225/55 R18	225/55 R18
Tire Manufacturer	Falken	Falken
Tire Model	Ziex ZE001 A/S	Ziex ZE001 A/S
Treadwear	360	360
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	98V	98V
Tire Material	Rubber	Rubber
DOT Safety Code Left	1R800 FM2R3125	1R800 FM2R3125
DOT Safety Code Right	1R800 FM2R3125	1R800 FM2R3125

DATA SHEET NO. 1 ... (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

TIRE PRESSURES

	Units	LF	RF	LR	RR
As Delivered	kPa	240	240	230	230
Tire Placard	kPa	240	240	230	230
Owner's Manual	kPa	240	240	230	230
As Tested	kPa	240	240	230	230

MDB TIRE SPECIFICATIONS

	Units	Requirement	LF	RF	LR	RR
Tire Size		P205/75R15	P205/75R15	P205/75R15	P205/75R15	P205/75R15
Tire Pressure	kPa	200 ± 21	220	220	220	220

TEST VEHICLE AXLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)			Fully Loaded		
		Front	Rear	Total	Front	Rear	Total	Front	Rear	Total
Left	kg	494.0	347.0		506.5	436.5		563.0	405.0	
Right	kg	474.0	327.5		516.5	368.0		481.0	385.0	
Ratio	%	58.9%	41.1%		56.0%	44.0%		56.9%	43.1%	
Total	kg	968.0	674.5	1642.5	1023.0	804.5	1827.5	1044.0	790.0	1834.0

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total Delivered Weight (UVW)	kg	1642.5	A
Sum of Actual Weight of 2 P572 ATD Used	kg	125.0	B
Rated Cargo/Luggage Weight (RCLW)	kg	68.0	C
Calculated Target Vehicle Test Weight (TVTW)	kg	1835.5	A+B+C

Does the measured As Tested Vehicle Weight lie within the required weight range (i.e.

Calculated Test Vehicle Target Weight -4.5 kg to -9.0 kg)? ☒ Yes ☐ No

TEST VEHICLE ATTITUDE AND CG

Measurement Description	Units	Fully Loaded	As Tested	Meets Requirement***
LF	mm	755	765	Yes
RF	mm	763	766	Yes
LR	mm	761	767	Yes
RR	mm	769	760	Yes
Vehicle CG (Aft of Front Axle)	mm	1151	1176	
Vehicle CG (Left (+)/Right (-) from Longitudinal Centerline)	mm	43	25	

***The "As Tested" vehicle attitude measurements must be equal to or within ±10 mm of the "Fully Loaded" vehicle attitude measurements at each wheel well. Indicate "Yes" or "No" for "Meets Requirement"

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

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

Test Height Adjustable Setting (If Applicable)	
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WEIGHT OF BALLAST AND VEHICLE COMPONENTS REMOVED TO MEET TVTW

Component Description	Weight (kg)
None	

TEST SURFACE MARKINGS

	Distance from 63° Impact Angle Line (mm)
Fore 25 mm target	0
Aft 25 mm target	0
Pre-Impact Angle Line	63°

Parallel Track Target	X Location (mm)	Y Location (mm)
A	0	0
B	1355	689
C	1355	3756
D	0	3059

DATA SHEET NO. 2

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

SEAT POSITIONING

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

SCRL ANGLE RANGE

Seat	SCRL (°)		
	Max	Min	Mid
Driver Seat	22.3	14.2	18.3
Front Passenger Seat	Fixed	Fixed	Fixed
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	Forwardmost
Driver Seat	18.3	626	Max			
			Mid	621	626	632
			Min			
Front Passenger Seat	Fixed	Fixed	Max			
			Mid	Fixed	Fixed	Fixed
			Min			
Front Center Seat			Max			
			Mid			
			Min			
Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Max	Fixed	Fixed	Fixed
			Mid	Fixed	Fixed	Fixed
			Min	Fixed	Fixed	Fixed

DATA SHEET NO. 2 ... (CONTINUED)

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

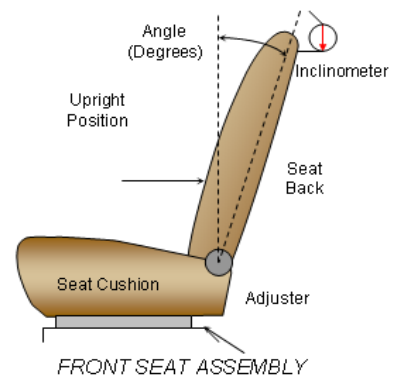
SEAT FORE/AFT POSITION

Seat	Total Fore/Aft Travel		Test Position From Forwardmost Position	
	mm	Detents*	mm	Detent*
Driver Seat	260		130	
Front Passenger Seat	260		130	
Front Center Seat				
Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Fixed	Fixed

*Detent zero (0) is the forward most detent

SEAT BACK ADJUSTMENT

The driver's seat back is positioned to the manufacturer's designated design angle. The right front passenger's seat back is positioned in a similar manner as the driver's seat back. The struck side rear seat back is adjustable. The rear center and non-struck side rear outboard seat backs are positioned in a similar manner as the struck side rear seat back. Seat back angle is measured at the head rest post.



SEAT BACK POSITION

Seat	Total Seat Back Angle Range		Test Position from Most Upright	
	Degrees	Detents*	Degree	Detent*
Driver Seat w/ Seated Dummy	75.1	37	14.1	8
Front Passenger Seat	72.9	37	14.0	8
Front Center Seat				
Struck Side Rear Seat w/ Seated Dummy	Fixed	Fixed	Fixed	Fixed
Non-Struck Side Rear Seat	Fixed	Fixed	Fixed	Fixed
Rear Center Seat	Fixed	Fixed	Fixed	Fixed

*Detent zero (0) is the forward most detent

DATA SHEET NO. 2 ... (CONTINUED)

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

SEAT BELT ANCHORAGE ADJUSTMENT

Seat belt anchorages are adjusted in accordance with the information provided by the manufacturer on Form No. 1. The positions are marked H, M2, M1, L from top to bottom.

	Total No. of Positions	Placed in Position
Driver Seat	4	M2
Rear Seat	Fixed	Fixed

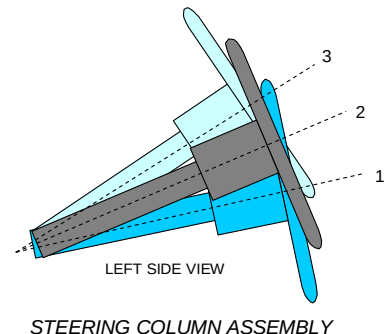
HEAD RESTRAINT ADJUSTMENT

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

	Total No. of Positions	Placed in Position
Driver Seat	3	H
Rear Seat	Fixed	Fixed

STEERING COLUMN ADJUSTMENT

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



STEERING COLUMN POSITIONING

	Degrees	Fore-Aft Position (mm)
Lowermost Position, No. 1	22.0	115
Geometric Center Position, No. 2	24.4	138
Uppermost Position, No. 3	26.7	160
Telescoping Steering Wheel Travel		45
Test Position	24.4	138

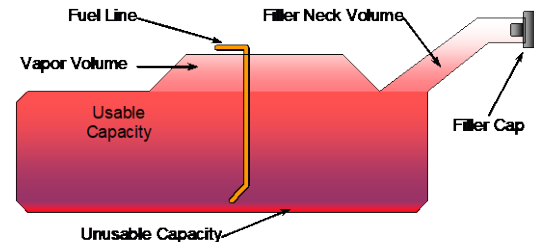
DATA SHEET NO. 2 ... (CONTINUED)

SEAT, SEAT BELT, STEERING WHEEL ADJUSTMENT, AND FUEL SYSTEM DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

FUEL PUMP

The vehicle is equipped with an electric fuel pump. The pump will work at "ignition on" until pressure in the system has reached working pressure in the system; then it will stop pumping fuel until the engine has started.



FUEL TANK CAPACITY

VEHICLE FUEL TANK ASSEMBLY

Description	Liters
Usable Capacity of "Standard Tank" (see Form No. 1)	62.84
Usable Capacity of "Optional Tank" (see Form No. 1)	
Usable Capacity of "Standard Tank" (see Owner's Manual)	62.84
Usable Capacity of "Optional Tank" (see Owner's Manual)	
93% of Usable Capacity	58.44
Actual Amount of Solvent Used in Test	58.44
1/3 of Usable Capacity	20.95

Is the Actual Amount of Solvent Used in the test equal to $93\% \pm 1\%$ of the Usable Capacity stated in the Form No. 1? ☒ Yes ☐ No

DATA SHEET NO. 3

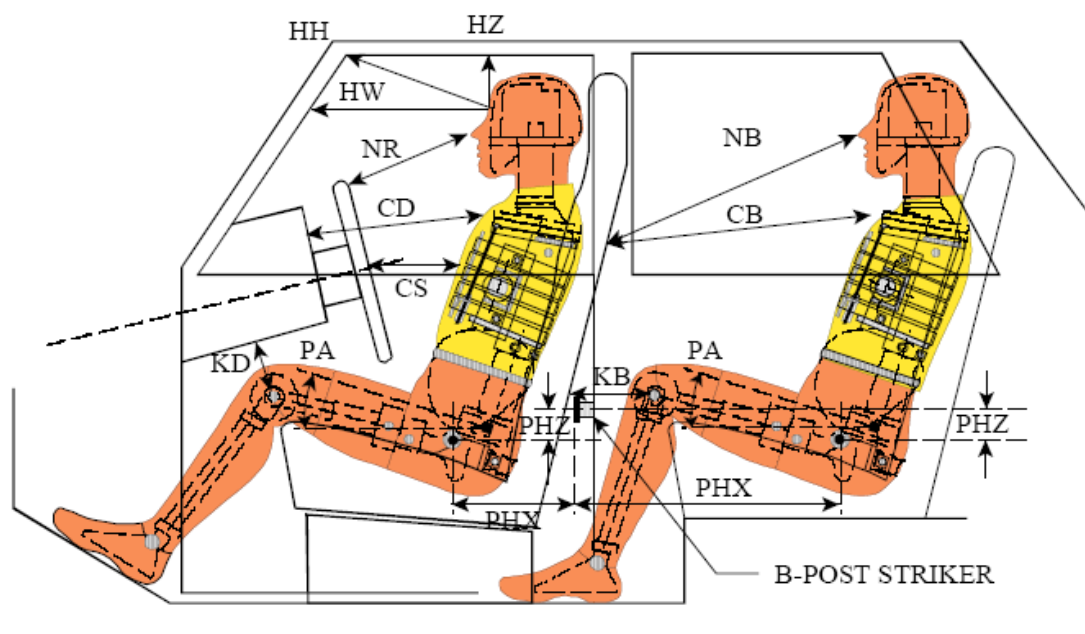
DUMMY LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV

NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test

Test Date: 12/10/2025



LEFT SIDE VIEW

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

DUMMY LONGITUDINAL CLEARANCE DIMENSION INFORMATION

Driver Code	Pass. Code	Description	Driver		Passenger	
			Length (mm)	Angle (°)	Length (mm)	Angle (°)
HH		Head to Header	365			
HW		Head to Windshield	639			
HZ	HZ	Head to Roof	182		252	
NR	NB	Nose to Rim/Seat Back	446		607	
CD	CB	Chest to Dash/Seat Back	602		610	
CS		Chest to Steering Wheel	315			
KD(L)/KDA(L)°	KB(L)/KBA(L)°	Left Knee to Dash/Seat Back	198	18.6	335	16.6
KD(R)/KDA(R)°	KB(R)/KBA(R)°	Right Knee to Dash/Seat Back	147	40.9	344	23.6
PAX°	PAX°	Pelvic Tilt Angle X		20.0		21.5
	PAY°	Pelvic Tilt Angle Y				
PHX	PHX	Hip Point to Striker (x-axis)	227		701	
PHZ	PHZ	Hip Point to Striker (z-axis)	205		189	

DATA SHEET NO. 4

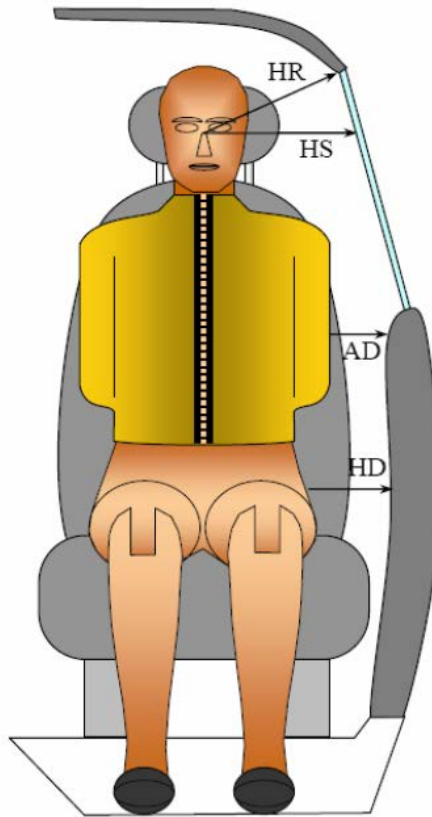
DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV

NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test

Test Date: 12/10/2025



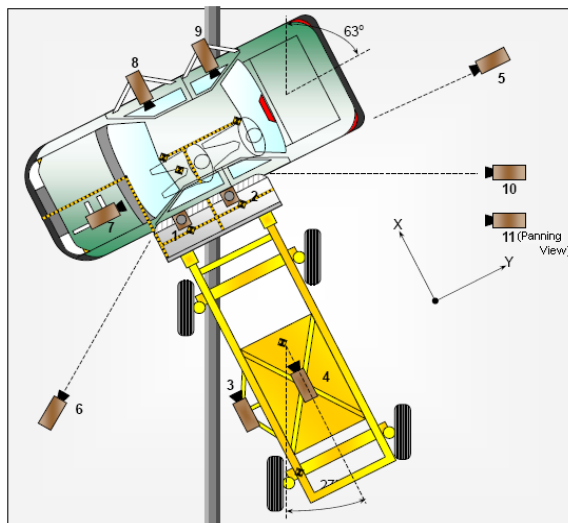
DUMMY LATERAL CLEARANCE DIMENSION INFORMATION

Code	Measurement Description	Units	Driver	Passenger
HR	Head to Side Header	mm	252	276
HS	Head to Side Window	mm	355	352
AD	Arm to Door	mm	111	161
HD	H-Point to Door	mm	162	182

DATA SHEET NO. 5

CAMERA AND INSTRUMENTATION DATA

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



CAMERA LOCATIONS AND DATA

No.	View	Coordinates (mm)			Lens Length (mm)	Operating Frame Rate (fps)
		X	Y	Z		
1	Overhead Overall	1220	2287	-5486	14	1000
2	Overhead Close-Up	609	2287	-5102	35	1000
3	Left Impact Point (MDB)	-2134	0	-1143	25	1000
4	Side Overall (MDB)	-3912	838	-1829	12.5	1000
5	Rear	-64	2485	-1348	85	1000
6	Left Front	-2266	-3564	-1475	24	1000
7	Driver Front (On-Board)	316	-1424	608	8.5	1000
8	Driver Side (On-Board)	435	-1451	576	8	1000
9	Passenger Side (On-Board)	342	-1418	650	8	1000
10	Real Time Overall				Zoom	30
11	Real Time Inrun				Zoom	30

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

*All measurements accurate to ± 6 mm

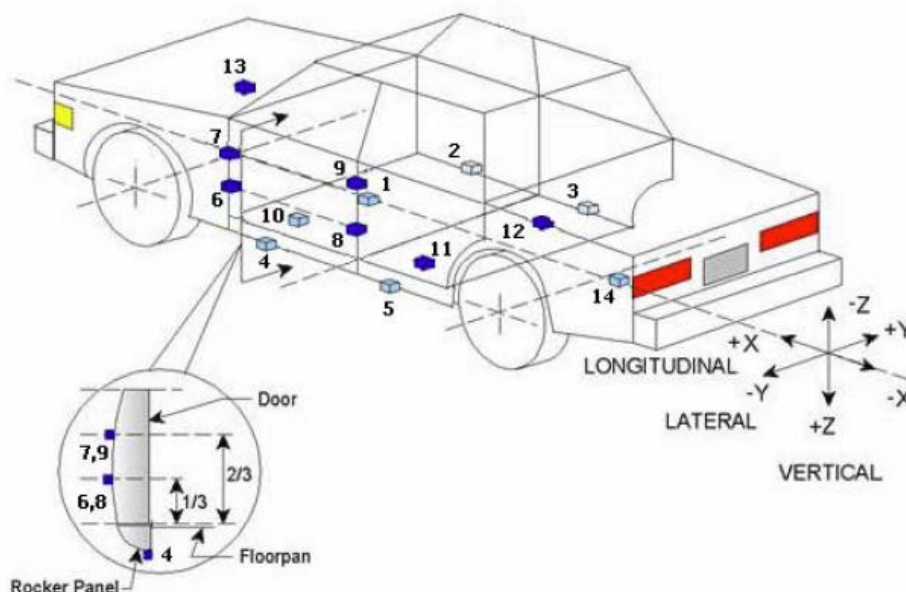
INSTRUMENTATION

Driver Dummy Channels	16
Passenger Dummy Channels	19
Vehicle Structure Accelerometers	23
MDB Channels	5
Total	63

DATA SHEET NO. 6

TEST VEHICLE ACCELEROMETER LOCATIONS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



VEHICLE ACCELEROMETER PRE-TEST LOCATIONS

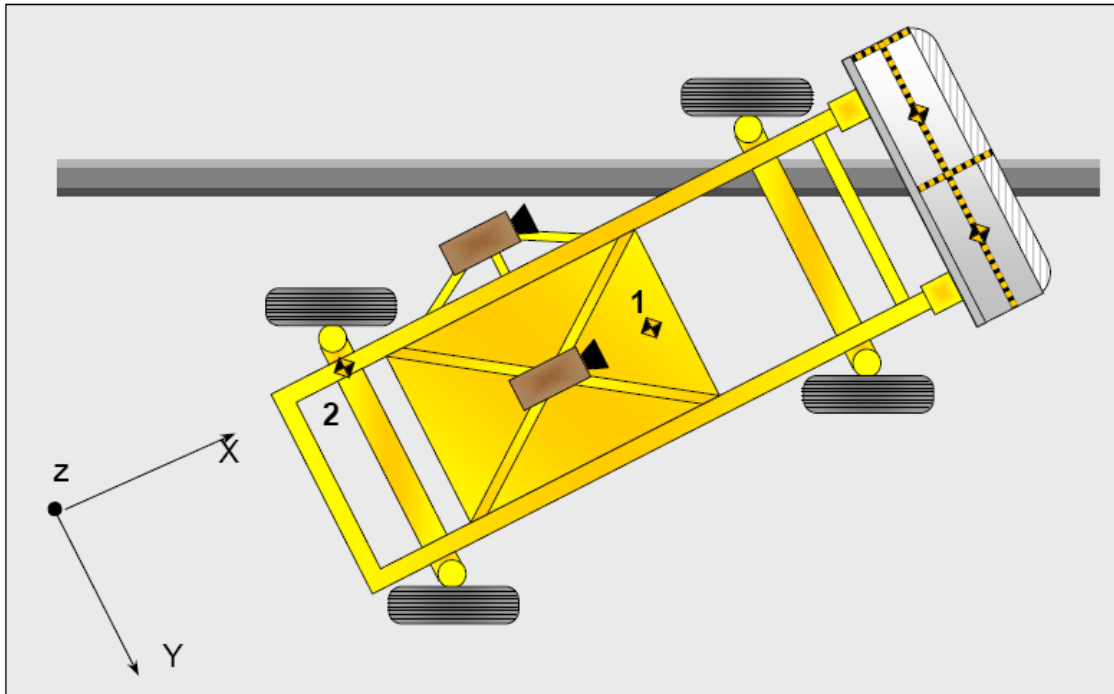
Loc. No.	Sensor Description	Coordinates (mm)		
		X	Y	Z
1	Vehicle CG	1870	0	-130
2	Right Sill at Front Seat	2980	715	-125
3	Right Sill at Rear Seat	1700	716	-130
4	Left Sill at Front Door	2220	-810	-130
5	Left Sill at Rear Door	1670	-810	-130
6	A-Pillar Lower	3220	-730	-295
7	A-Pillar Middle	3220	-730	-447
8	B-Pillar Lower	2130	-724	-351
9	B-Pillar Middle	2140	-724	-550
10	Front Seat Track	2400	-600	-105
11	Rear Seat Structure	1720	-427	-255
12	Right Rear Occupant Compartment	1940	384	-280
13	Engine Block	4100	-10	-700
14	Rear Floorpan Above Axle	675	0	-290

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

DATA SHEET NO. 7

MDB ACCELEROMETER LOCATIONS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



MDB ACCELEROMETER LOCATIONS

Loc. No.	Accelerometer Location	Coordinates (mm)		
		X	Y	Z
1	MDB CG	-1195	0	-430
2	MDB Rear	-2642	-593	-608

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

Width between left and right MDB contact switches	mm	1530
---	----	------

DATA SHEET NO. 8

POST-TEST OBSERVATIONS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

TEST DUMMY INFORMATION AND CONTACT POINTS

Dummy Body Part	Front Seat Dummy (ES-2re)	Rear Seat Dummy (SID-IIs)
Face	Curtain Air Bag	Curtain Air Bag
Top of Head	Curtain Air Bag, Headliner	Curtain Air Bag
Left Side of Head	Curtain Air Bag	Curtain Air Bag
Back of Head	Curtain Air Bag, Headliner Headrest	Headrest, Curtain Air Bag
Left Shoulder	Torso/Pelvis Air Bag, Curtain Air Bag	Torso/Pelvis Air Bag
Upper Torso	Torso/Pelvis Air Bag, Seatback	Torso/Pelvis Air Bag
Lower Torso	Torso/Pelvis Air Bag, Seatback	Door Panel
Left Hip	Torso/Pelvis Air Bag, Door Panel	Door Panel, Seat Pan
Left Knee	None	None

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 System Pulled Out of Their Anchorages	No	No	No	No	No
Disengaged from Latched Position	No	No	No	No	No
Latch Separated from Striker	No	No	No	No	No
Jammed Shut	Yes	Yes	No	No	No
If Door Opened at Striker, Record Width of Opening at Striker (mm)					

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

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

POST-TEST SEAT PERFORMANCE

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

POST-TEST STRUCTURAL OBSERVATIONS

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

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

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

Restraint Type	Struck Side		Struck Side	
	Driver		Rear Passenger	
	Mounted	Deployed	Mounted	Deployed
Frontal Air Bag	Yes	No		
Knee Air Bag	Yes	No		
Side Air Bag 1 (Curtain)	Yes	Yes	Yes	Yes
Side Air Bag 2 (Torso/Pelvis)	Yes	Yes	Yes	Yes
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes	Yes	Yes	Yes

IMPACT POINT LOCATION DATA

Measured Parameter	Units	Tolerance	Value
Vehicle Wheelbase	mm		2672
Vertical Impact Reference Line (Aft of Front Axle)(Intended Impact Point)	mm		545
Actual Impact Point (Aft of Front Axle)	mm		557
Horizontal Offset (+ forward / - rearward)	mm	± 50 of Intended Impact Point	-12
Vertical Offset (+ down / - up)	mm	± 20 of Intended Impact Point	5

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

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

MDB SPECIFICATIONS

Measurement Description	Length (mm)
Overall Width of Framework Carriage	1251
Overall Length Including Honeycomb Face	4115
Wheelbase of Framework Carriage	2595
CG location aft of Front Axle	1118

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	399.0	295.0	694.0
Right	kg	378.0	293.0	671.0
Ratio	%	56.9%	43.1%	100.0%
Totals	kg	777.0	588.0	1365.0

SPEED AND IMPACT DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	61.75
Trap No. 2 Velocity (Redundant)	km/h	61.1 to 62.7	61.74
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	90.1
MDB Forward Line of Motion to Target Vehicle CL	degrees	62.5 to 63.5	63.2
MDB Crabbed Angle to MDB Forward Line of Motion	degrees	26.0 to 28.0	26.9

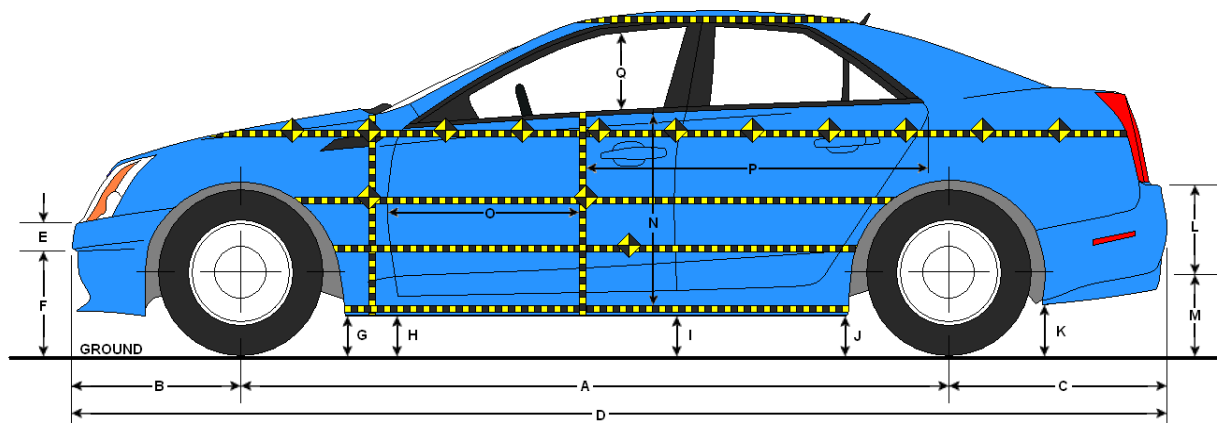
MAXIMUM STATIC CRUSH OF HONEYCOMB FACE

Vertical Location			From Centerline		Max. Crush (mm)
Row	Description	Height (mm)	Distance (mm)	Direction	
A	Center of Bumper	432	700	Right	235
B	Top of Bumper	533	800	Right	175
C	Mid Level	686	800	Left	113
D	Top of Stack	813	800	Left	131

DATA SHEET NO. 10

TEST VEHICLE PROFILE MEASUREMENTS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



LEFT SIDE VIEW

VEHICLE PRE- AND POST-TEST MEASUREMENT INFORMATION

Code	Description	Pre-Test	Post-Test	Change
A	Wheelbase	2672	2651	-21
B	Front Axle to FSOV	945	991	46
C	Rear Axle to RSOV	850	826	-24
D	Total Length at Centerline	4467	4469	2
E	Front Bumper Thickness	107	105	-2
F	Front Bumper Bottom to Ground	473	463	-10
G	Sill Height at Front Wheel Well	300	297	-3
H	Sill Height at Front Door Leading Edge	401	377	-24
I	Sill Height at B-Pillar	376	373	-3
J1	Sill Height at Rear Wheel Well	335	334	-1
J2	Pinch Weld Height at Rear Wheel Well	275	272	-3
K	Sill Height Aft of Rear Wheel Well	382	378	-4
L	Rear Bumper Thickness	130	128	-2
M	Rear Bumper Bottom to Ground	573	569	-4
N	Sill Height to Bottom of Front Window Sill	592	583	-9
O	Front Door Leading Edge to Impact CL	750	741	-9
P	Rear Door Trailing Edge to Impact CL	1379	1334	-45
Q	Front Window Opening	411	452	41
R	Right Side Length	3255	3254	-1
S	Left Side Length	3255	3237	-18
T	Vehicle Width at B-Pillar	1702	1591	-111

All measurements in mm with tolerance of ± 3 mm

DATA SHEET NO. 11

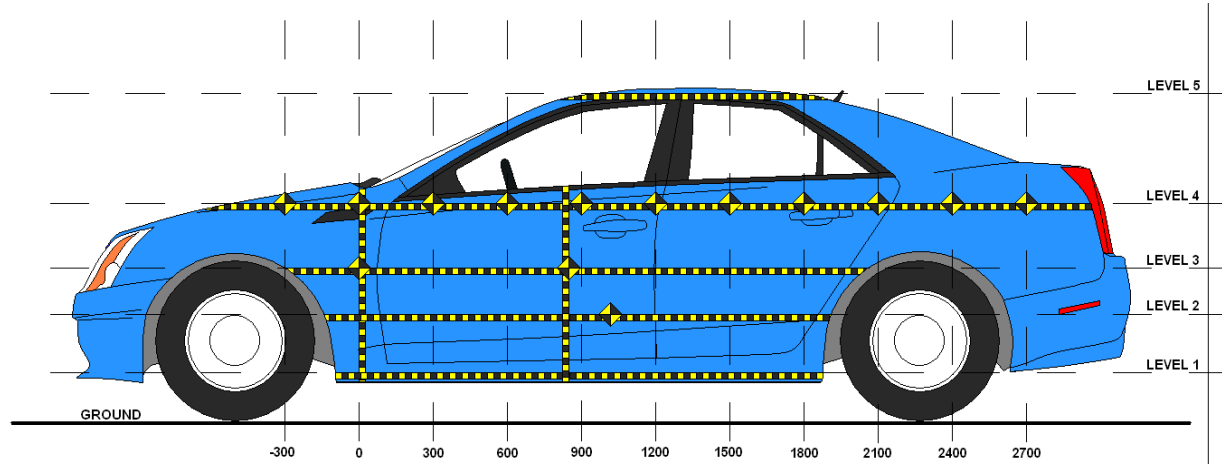
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV

NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test

Test Date: 12/10/2025



LEFT SIDE VIEW

Level	Description	Height Above Ground (mm)	Maximum Exterior Static Crush	Distance from Impact
1	Sill Top	365	58	150
2	Occupant H-Point	633	94	1800
3	Mid-Door	760	156	1650
4	Window Sill	993	70	1650
5	Window Top	1587	27	1350

DATA SHEET NO. 11 ... (CONTINUED)

TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

EXTERIOR CRUSH MEASUREMENTS AT EACH LEVEL

	Pre-Test (mm)					Post-Test (mm)					Crush (mm)				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750															
-600															
-450															
-300															
-150															
0				2438					2435					-3	
150	2357	2402	2406	2430		2415	2395	2383	2425		58	7	23	-5	
300	2359	2398	2411	2404		2389	2330	2339	2400		30	68	72	-4	
450	2361	2405	2416	2415		2379	2328	2326	2408		18	77	90	-7	
600	2364	2410	2421	2420		2381	2330	2328	2412		17	80	93	-8	
750	2369	2415	2425	2418		2378	2333	2332	2413		9	82	93	-5	
900	2372	2419	2428	2396		2376	2346	2337	2412		4	73	91	16	
1050	2376	2423	2430	2401		2376	2359	2342	2410		0	64	88	9	
1200	2378	2425	2430	2403		2371	2361	2331	2404		7	64	99	1	
1350	2382	2425	2430	2404	2159	2366	2335	2290	2342	2186	16	90	140	62	27
1500	2384	2427	2431	2401	2158	2365	2343	2276	2345	2182	19	84	155	56	24
1650	2392	2430	2441	2399	2163	2365	2337	2285	2329	2179	27	93	156	70	16
1800	2408	2436	2460	2396	2169	2392	2342	2315	2346	2178	16	94	145	50	9
1950		2458	2464	2394	2173		2444	2397	2367	2176		14	67	27	3
2100				2406	2175				2398	2176				8	1
2250				2417	2177				2404	2170				13	7
2400				2420	2176				2404	2165				16	11
2550				2414					2395					19	
2700															
2850															

DATA SHEET NO. 11 ... (CONTINUED)

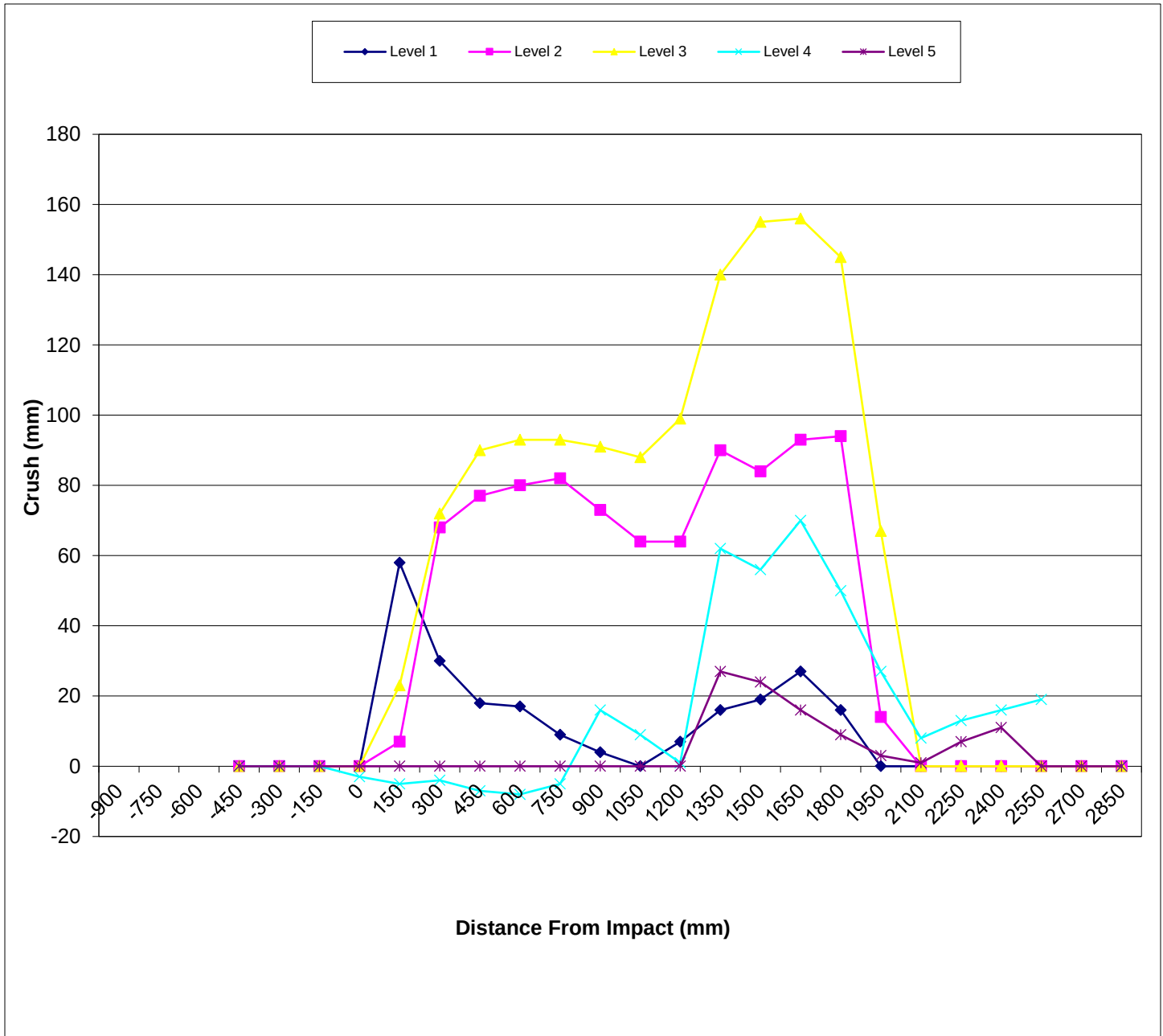
TEST VEHICLE EXTERIOR CRUSH MEASUREMENTS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV

NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test

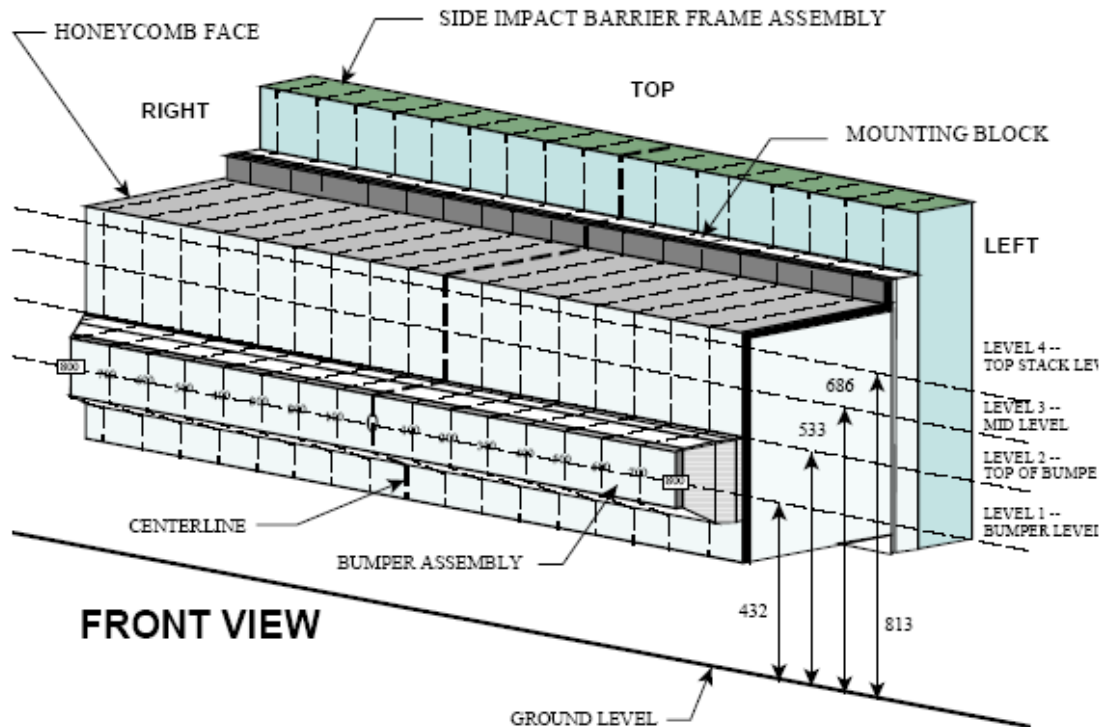
Test Date: 12/10/2025



DATA SHEET NO. 12

MDB EXTERIOR STATIC CRUSH MEASUREMENTS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



NOTE: Dimensions are shown in millimeters, mm

DEFORMABLE BARRIER STATIC CRUSH

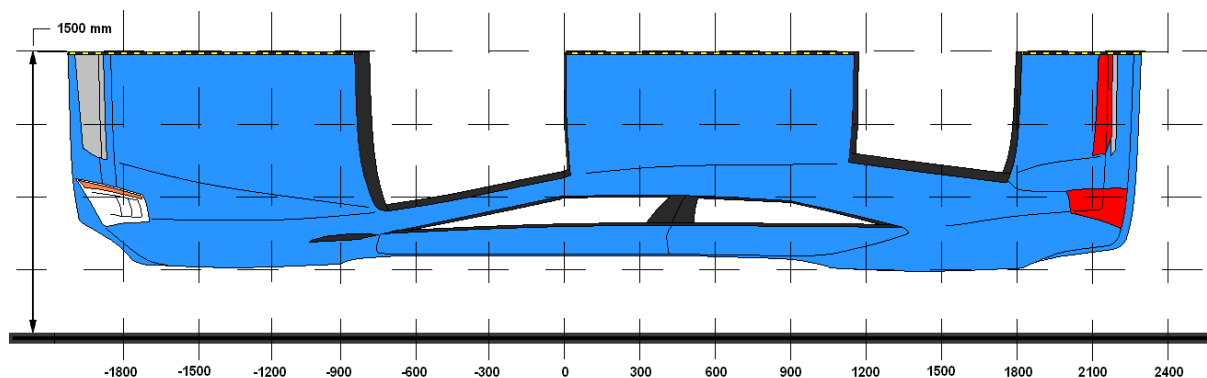
Stack Level	Distance Right of Center								C/L	Distance Left of Center							
	800	700	600	500	400	300	200	100		100	200	300	400	500	600	700	800
1	183	235	227	213	212	207	203	206	200	198	193	190	186	185	187	197	213
2	175	165	159	148	135	119	119	119	126	125	123	119	116	121	103	119	120
3	84	66	61	71	81	91	75	74	65	56	48	45	41	43	44	55	113
4	91	57	40	41	71	116	108	108	92	74	61	56	58	53	51	99	131

All dimensions in millimeters.

DATA SHEET NO. 13

VEHICLE AND MDB DAMAGE PROFILE DISTANCES

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



VEHICLE DAMAGE PROFILE DISTANCES

DPD	Distance From Impact Point (mm)	Level	Pre-Test (mm)	Post-Test (mm)	Crush (mm)
1	2550	4	2414	2395	-19
2	1950	3	2464	2397	-67
3	1500	3	2441	2285	-156
4	900	3	2428	2337	-91
5	450	3	2416	2326	-90
6	0	4	2438	2435	-3

MDB DAMAGE PROFILE DISTANCES

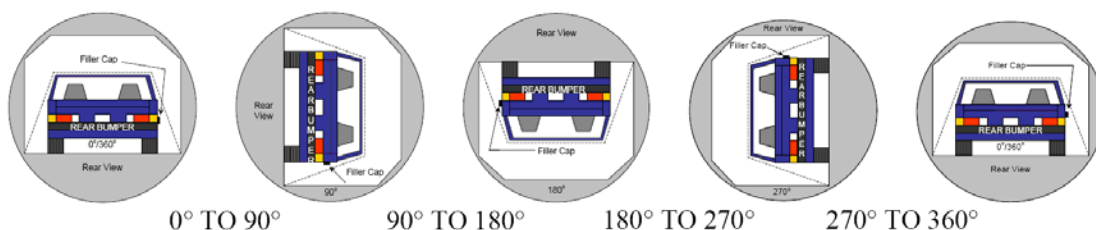
DPD	From MDB Centerline		Level	Crush (mm)
	Distance (mm)	Direction		
1	800	Left	1	213
2	500	Left	1	185
3	200	Left	1	193
4	200	Right	1	203
5	500	Right	1	213
6	800	Right	1	183

DATA SHEET NO. 14

FMVSS NO. 301 STATIC ROLLOVER RESULTS

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025
 Temperature at Time of Impact: 16.7 °C Test Time: 2:30 P.M.

- A. From impact until vehicle motion ceases: N/A oz.
 (Maximum allowable = 1 oz.)
- B. For the 5 minute period after motion ceases: N/A oz.
 (Maximum allowable = 5 oz.)
- C. For the following 25 minutes: N/A oz.
 (Maximum allowable = 1 oz./minute)
- D. Spillage Details: _____



SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° To 90°	80	300	380
90° To 180°	80	300	380
180° To 270°	82	300	382
270° To 360°	82	300	382

FMVSS 301 SPILLAGE TABLE

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

SOLVENT SPILLAGE LOCATION TABLE

Test Phase	Spillage Location
0° To 90°	
90° To 180°	
180° To 270°	
270° To 360°	

DATA SHEET NO. 15

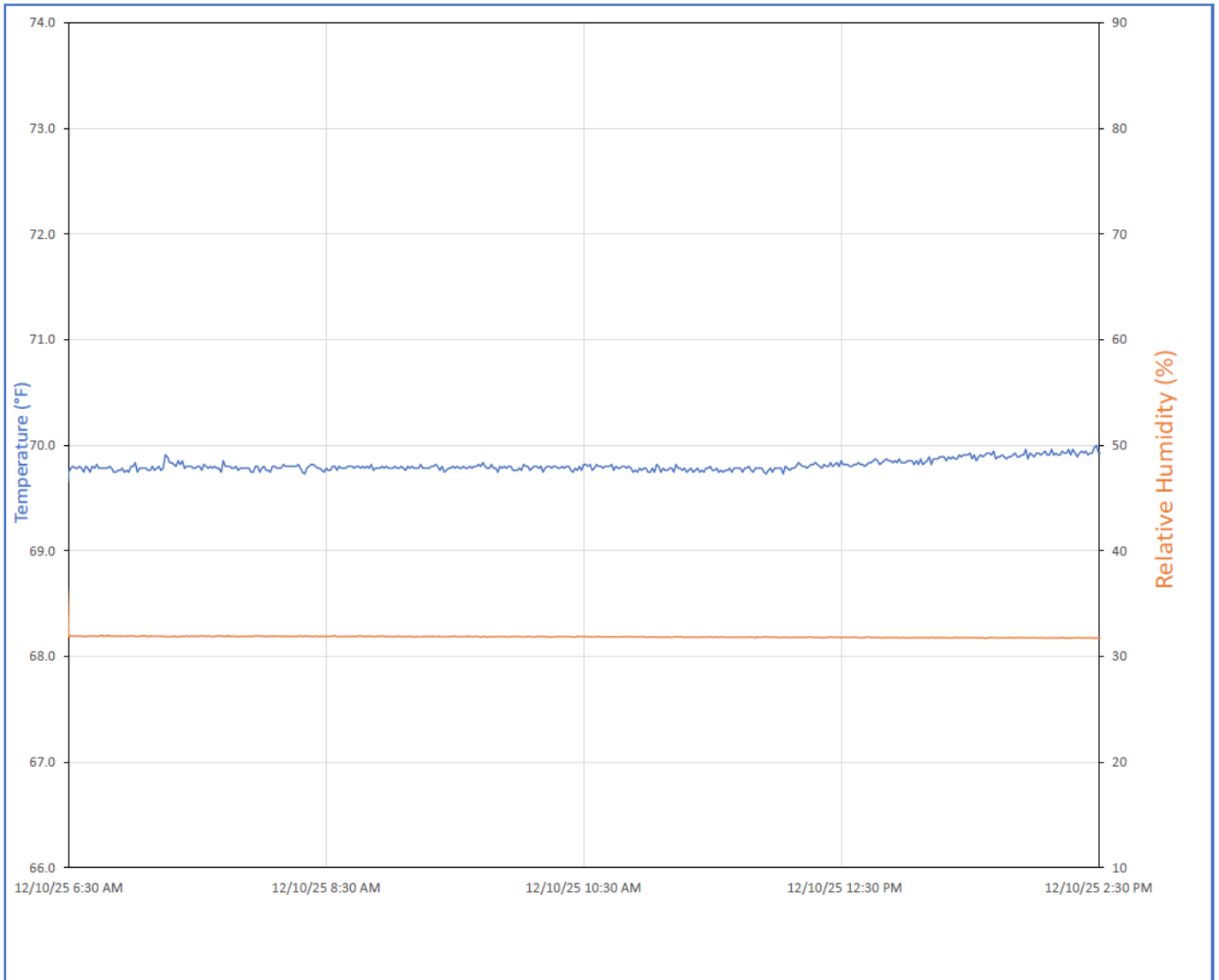
DUMMY/VEHICLE TEMPERATURE AND HUMIDITY STABILIZATION

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV

NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test

Test Date: 12/10/2025



DATA SHEET NO. 305-1**GENERAL TEST AND VEHICLE PARAMETER DATA FOR INDICANT FMVSS NO. 305****TESTING**Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025**TEST VEHICLE INFORMATION**

NHTSA Number	O20265501
Model Year	2026
Make	Subaru
Model	Crosstrek Hybrid
Body Style	5-Door MPV
Body Color	Magnetite Gray Pearl
Odometer Reading (km / mi)	9/14

DATA FROM VEHICLE'S CERTIFICATION LABEL

Manufactured By	Subaru Corporation
Date of Manufacture	Sep-25
VIN	JF2GUSGD6T8206499
GVWR (kg)	2352

ELECTRIC VEHICLE PROPULSION SYSTEM

Type of Electrical Vehicle	Gas-Electric Hybrid
Propulsion Battery Type	Lithium-Ion
Nominal Voltage (V)	259
Automatic Propulsion Battery Disconnect	Yes
Physical Location of Automatic Propulsion Battery Disconnect	Inside Battery Unit
Auxiliary Battery Type	12-Volt Lead Acid

PROPULSION BATTERY SYSTEM DATA

Electrolyte Fluid Type	Organic Electrolyte
Electrolyte Fluid Specific Gravity (g/cc)	1.0125 +/- 0.004
Electrolyte Fluid Kinematic Viscosity (mm ² /s)	3.9 cSt
Electrolyte Fluid Color	Clear
Propulsion Battery Coolant Type	Air
Propulsion Battery Coolant Color	N/A
Propulsion Battery Coolant Specific Gravity	

LOCATION OF BATTERY MODULES

Location	Rear Cargo Area
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DATA SHEET NO. 305-1...(CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA FOR INDICANT FMVSS NO. 305

TESTING

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

For all battery types:

Description	Volts
Minimum Operating Voltage	12
Maximum Operating Voltage	259
95% of Maximum Operating Voltage	246
Test Voltage (no less than 95% of Maximum)*	259

For batteries that are rechargeable ONLY by an energy source on the vehicle:

Description	Volts
Minimum Operating Voltage	
Maximum Operating Voltage	
Test Voltage (Maximum practicable state of charge within normal operating range)	

DATA SHEET NO. 305-2

PRE-IMPACT DATA FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

VEHICLE CHASSIS GROUND POINT(S) LOCATION(S)

DETAILS OF VEHICLE CHASSIS GROUND POINT(S) AND LOCATION(S):

The FMVSS 305 chassis ground point is located at the rear left side of the cargo area.

PROPULSION BATTERY SYSTEM

DETAILS OF PROPULSION BATTERY COMPONENTS:

The physical location of automatic propulsion battery disconnect is located at the top left area of the rear cargo compartment under the terminal cover.

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

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

VOLTMETER INFORMATION

Make	Fluke
Model	87V MAX
Serial No.	50790043
Internal Impedance Value	50 M Ω
Resolution	0.001

HV BATTERY ELECTRICAL ISOLATION DATA

Code	Units	Threshold	Pre-Test
V _b	V		260.00
V ₁	V		118.00
V ₂	V		132.50
R ₀	Ω		701,000
V ₁ '	V		93.00
V ₂ '	V		106.70
R _{i1}	Ω		400,038
R _{i2}	Ω		320,454
R _i	Ω		320,454
R _i /V _b	Ω/V	500	1,233

Is the Measured Electrical Isolation Value $\geq$ 500 Ω/V ?	Yes
--	-----

DATA SHEET NO. 305-4**POST-IMPACT DATA FOR INDICANT FMVSS NO. 305 TESTING**Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025**VOLTMETER INFORMATION**

Make	Fluke
Model	87V MAX
Serial No.	50790043
Internal Impedance Value	50 MΩ
Resolution	0.001

HV BATTERY ELECTRICAL ISOLATION DATA

Code	Units	Threshold	Post-Test
V_b	V		0.690
V_1	V		1.890
V_2	V		2.480
R_o	Ω		701,000
V_1'	V		1.020
V_2'	V		1.300
R_{i1}	Ω		1,382,473
R_{i2}	Ω		1,121,209
R_i	Ω		1,121,209
R_i/V_b	Ω/V	500	1,624,940

Is the Measured Electrical Isolation Value $\geq$ 500 Ω/V?	Yes
Is V_1 , V_2 , and $V_b \leq$ 60 VDC?	Yes

PROPULSION BATTERY SYSTEM COMPONENTS

Has the propulsion battery module moved within the passenger compartment?

NoDescribe any movement: There was no movement of the propulsion battery within the passenger compartment.

Has an outside propulsion battery component intruded into the passenger compartment?

NoDescribe any intrusion: There was no intrusion of the outside propulsion battery into the passenger compartment.

Is there propulsion battery electrolyte spillage visible in the passenger compartment?

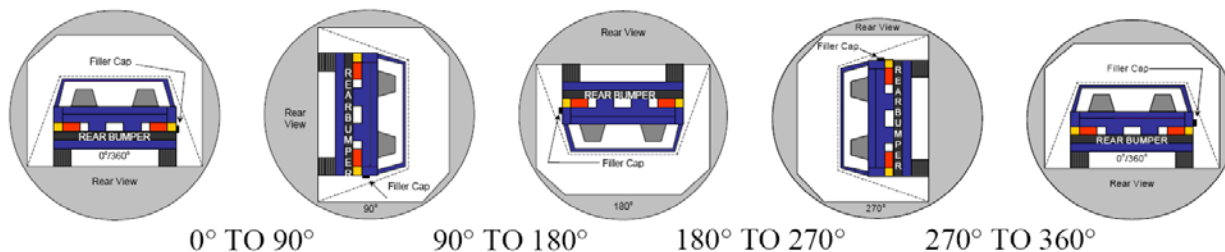
No

DATA SHEET NO. 305-5

STATIC ROLLOVER TEST DATA FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501

Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025



PROPULSION BATTERY ELECTROLYTE COLLECTION TIME PERIOD

Test Phase	Rotation Time	Hold Time	Total Time
0° To 90°	81	300	381
90° To 180°	80	300	380
180° To 270°	80	300	380
270° To 360°	80	300	380

TEST VEHICLE PROPULSION BATTERY ELECTROLYTE SPILLAGE

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

Test Phase	Propulsion Battery Electrolyte Spillage (L)	Spillage Location
0° To 90°	0.0	N/A
90° To 180°	0.0	N/A
180° To 270°	0.0	N/A
270° To 360°	0.0	N/A

Is the Total Propulsion Battery Electrolyte Spillage Greater Than 5.0 Liters?	No spillage occurred
Is the Propulsion Battery Electrolyte Spillage Visible in the Passenger Compartment?	N/A

DATA SHEET NO. 305-5 (CONTINUED...)

STATIC ROLLOVER TEST DATA FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2026 Subaru Crosstrek Hybrid 5-Door MPV NHTSA No. O20265501
 Test Program: NCAP MDB Side Impact Test Test Date: 12/10/2025

VOLTMETER INFORMATION

Make	Fluke
Model	87V MAX
Serial No.	50790043
Internal Impedance Value	50 MΩ
Resolution	0.001

HV BATTERY ELECTRICAL ISOLATION MEASUREMENTS AND CALCULATIONS

Code	Units	Threshold	0°	90°	180°	270°	360°
V_b	V		0.001	0.064	0.033	0.010	0.018
V_1	V		0.004	0.022	0.012	0.003	0.004
V_2	V		0.002	0.032	0.018	0.006	0.012
R_o	Ω		701,000	701,000	701,000	701,000	701,000
V_1'	V		0.000	0.010	0.005	0.001	0.002
V_2'	V		0.001	0.015	0.009	0.003	0.006
R_{i1}	Ω		"Zero Volts"	2,064,764	2,453,500	4,206,000	2,804,000
R_{i2}	Ω		2,103,000	1,340,663	1,168,333	1,051,500	934,667
R_i	Ω		"Zero Volts"	1,340,663	1,168,333	1,051,500	934,667
R_i/V_b	Ω/V	500	"Zero Volts"	20,947,852	35,404,040	105,150,000	51,925,926

* "Zero Volts" is considered as being compliant.

Is the Measured Electrical Isolation Value $\geq$ 500 Ω/V?	Yes
Is V_1 , V_2 , and $V_b \leq$ 60 VDC?	Yes

APPENDIX A
PHOTOGRAPHS

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FIGURE 1. As-Delivered Right Front 3/4 View of Test Vehicle



FIGURE 2. As-Delivered Left Rear 3/4 View of Test Vehicle



FIGURE 3. Pre-Test Frontal View of Test Vehicle



FIGURE 4. Post-Test Frontal View of Test Vehicle



FIGURE 5. Pre-Test Left Front 3/4 View of Test Vehicle



FIGURE 6. Post-Test Left Front 3/4 View of Test Vehicle



FIGURE 7. Pre-Test Left Side View of Test Vehicle



FIGURE 8. Post-Test Left Side View of Test Vehicle



FIGURE 9. Pre-Test Left Rear 3/4 View of Test Vehicle



FIGURE 10. Post-Test Left Rear 3/4 View of Test Vehicle



FIGURE 11. Pre-Test Rear View of Test Vehicle



FIGURE 12. Post-Test Rear View of Test Vehicle



FIGURE 13. Pre-Test Right Side View of Test Vehicle



FIGURE 14. Post-Test Right Side View of Test Vehicle



FIGURE 15. Pre-Test Overhead View of Test Area

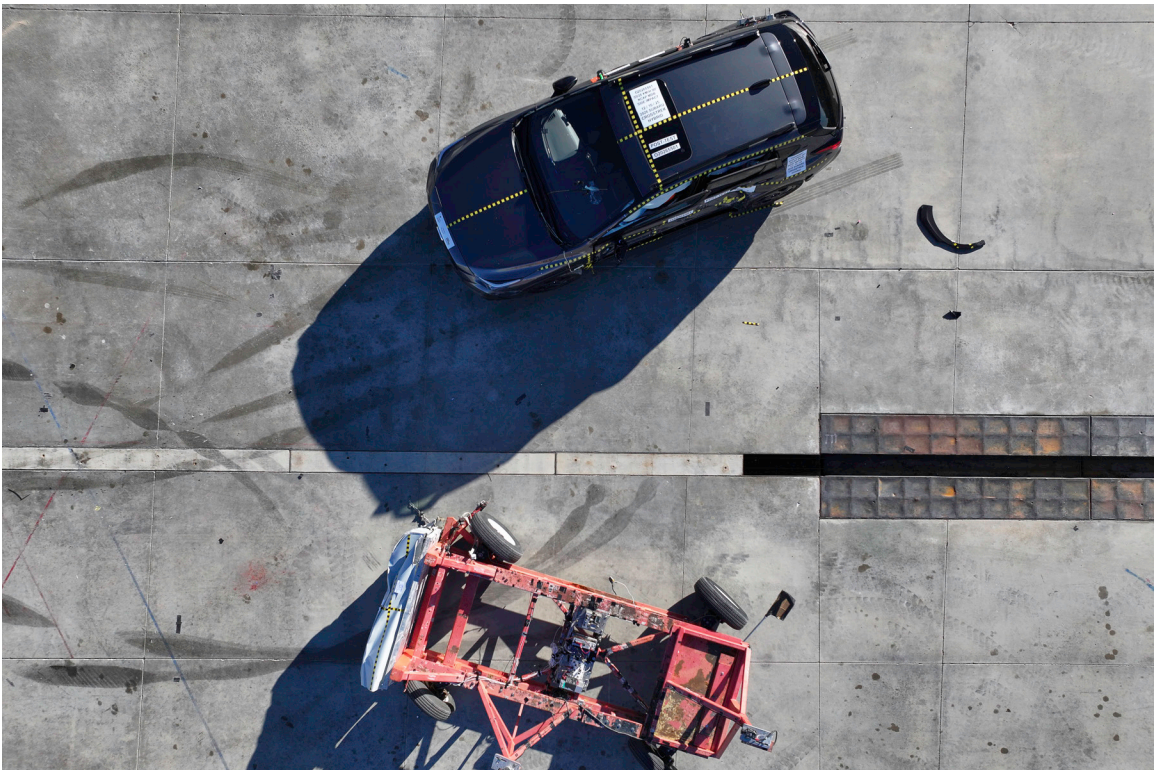


FIGURE 16. Post-Test Overhead View of Test Area



FIGURE 17. Pre-Test Left Side View of MDB Positioned Against Side of Test Vehicle



FIGURE 18. Pre-Test Right Side View of MDB Positioned Against Side of Test Vehicle



FIGURE 19. Pre-Test Close-Up View of Impact Point Target



FIGURE 20. Post-Test Close-Up View of Impact Point Target



FIGURE 21. Pre-Test Left Front Door Latch Close-Up



FIGURE 22. Post-Test Left Front Door Latch Close-Up

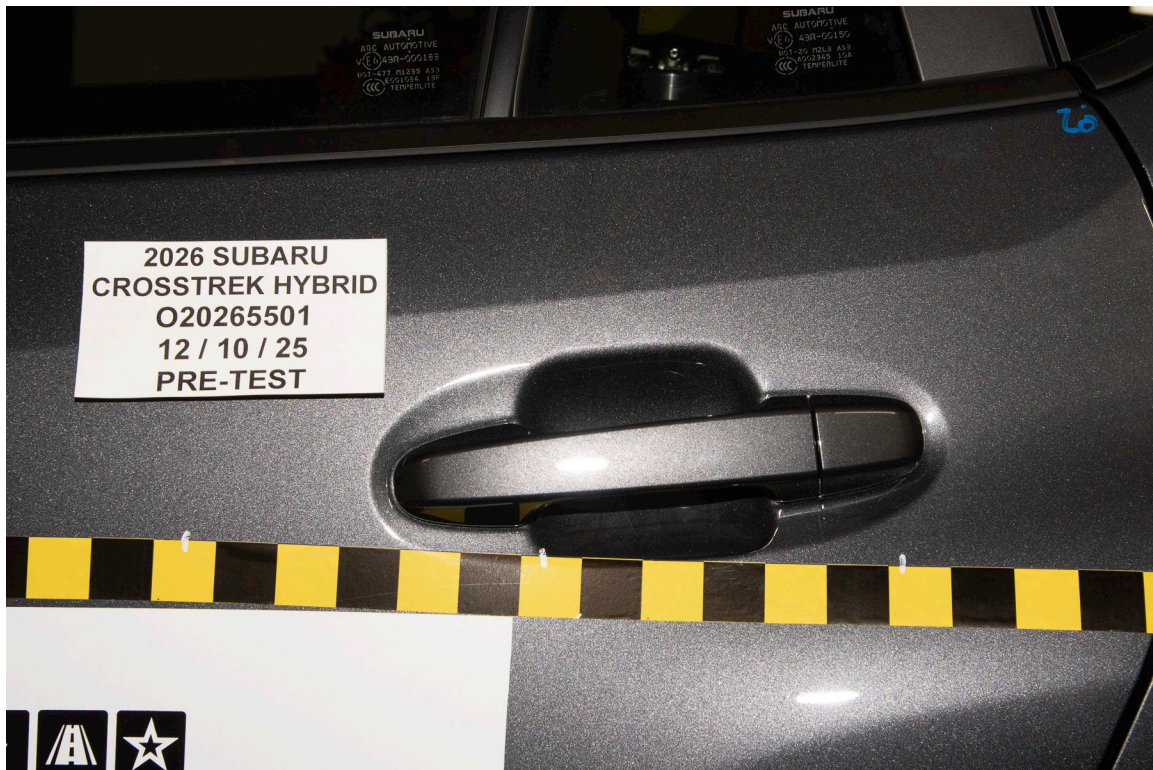


FIGURE 23. Pre-Test Left Rear Door Latch Close-Up



FIGURE 24. Post-Test Left Rear Door Latch Close-Up



FIGURE 25. Pre-Test Front Close-Up View of Driver Dummy



FIGURE 26. Post-Test Front Close-Up View of Driver Dummy



FIGURE 27. Pre-Test Left Side View of Driver Dummy Showing Belt and Chalking



FIGURE 28. Pre-Test Left Side View of Driver Dummy Shoulder and Door Top View



FIGURE 29. Post-Test Left Side View of Driver Dummy Shoulder and Door Top View



FIGURE 30. Pre-Test Frontal View of Driver Seat Back Prior to Dummy Positioning



FIGURE 31. Pre-Test Frontal View of Driver Dummy Head and Shoulders in Relation to Head Restraint



FIGURE 32. Pre-Test Overhead View of Driver Seat Pan Prior to Dummy Positioning



FIGURE 33. Pre-Test Overhead View of Driver Dummy Thighs on Seat Pan



FIGURE 34. Pre-Test Placement of Driver Dummy's Feet



FIGURE 35. Pre-Test View of Belt Anchorage for Driver Dummy



FIGURE 36. Pre-Test Left Side View of Steering Wheel



FIGURE 37. View of Disengaged Parking Brake



FIGURE 38. Pre-Test View of Parking Brake



FIGURE 39. Pre-Test Close-Up Left Side View of Driver Seat Track



FIGURE 40. Pre-Test Close-Up Left Side View of Driver Seat Back



FIGURE 41. Pre-Test Close-Up View of Driver Seat Back or Head Restraint



FIGURE 42. Pre-Test Driver Dummy and Door Clearance View



FIGURE 43. Post-Test Driver Dummy and Door Clearance View



FIGURE 44. Pre-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



FIGURE 45. Post-Test Right Side View of Driver Dummy and Front Seat of Occupant Compartment



FIGURE 46. Pre-Test Driver Inner Door Panel View



FIGURE 47. Post-Test Driver Inner Door Panel View



FIGURE 48. Post-Test Driver Dummy Close-Up Head Contact with Vehicle Interior View



FIGURE 49. Post-Test Driver Dummy Close-Up Head Contact with Side Air Bag View



FIGURE 49a. Post-Test Driver Dummy Head Contact with Headliner



FIGURE 50. Post-Test Driver Dummy Close-Up Torso Contact With Vehicle Interior View



FIGURE 51. Post-Test Driver Dummy Close-Up Torso Contact With Side Air Bag View



FIGURE 52. Post-Test Driver Dummy Close-Up Pelvis Contact With Vehicle Interior View



FIGURE 53. Post-Test Driver Dummy Close-Up Pelvis Contact With Side Air Bag View

Photograph Not Applicable

No Driver Dummy Close-Up Knee Contact

FIGURE 54. Post-Test Driver Dummy Close-Up Knee Contact View



FIGURE 55. Pre-Test Left Side View of Rear Passenger Dummy Showing Belt and Chalking



FIGURE 56. Pre-Test Left Side View of Rear Passenger Dummy Shoulder and Door Top View



FIGURE 57. Post-Test Left Side View of Rear Passenger Dummy Shoulder and Door Top View



FIGURE 58. Pre-Test Frontal View of Rear Passenger Seat Back Prior to Dummy Positioning



FIGURE 59. Pre-Test Frontal View of Rear Passenger Dummy Head and Shoulders in Relation to Head Restraint



FIGURE 60. Pre-Test Overhead View of Rear Passenger Seat Pan Prior to Dummy Positioning



FIGURE 61. Pre-Test Overhead View of Rear Passenger Dummy Thighs on Seat Pan



FIGURE 62. Pre-Test View of Rear Passenger Dummy's Neck Showing Position of Adjustable Neck Bracket



FIGURE 63. Pre-Test View of Rear Passenger Dummy's Head Showing Dummy's Head is Level



FIGURE 64. Pre-Test Placement of Rear Passenger Dummy's Feet



FIGURE 65. Pre-Test View of Belt Anchorage for Rear Passenger Dummy



FIGURE 66. Pre-Test Close-Up Left Side View of Rear Passenger Seat Track



FIGURE 67. Pre-Test Close-Up Left Side View of Rear Passenger Seat Back



FIGURE 68. Pre-Test Close-Up View of Rear Passenger Seat Back or Head Restraint



FIGURE 69. Pre-Test Rear Passenger Dummy and Door Clearance View



FIGURE 70. Post-Test Rear Passenger Dummy and Door Clearance View



FIGURE 71. Pre-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



FIGURE 72. Post-Test Right Side View of Rear Passenger Dummy and Rear Seat Occupant Compartment



FIGURE 73. Pre-Test Rear Passenger Inner Door Panel View



FIGURE 74. Post-Test Rear Passenger Inner Door Panel View



FIGURE 75. Post-Test Rear Passenger Dummy Close-Up Head Contact with Vehicle Interior View



FIGURE 76. Post-Test Rear Passenger Dummy Close-Up Head Contact with Side Air Bag View



FIGURE 77. Post-Test Rear Passenger Dummy Close-Up Torso Contact with Vehicle Interior View



FIGURE 78. Post-Test Rear Passenger Dummy Close-Up Torso Contact with Vehicle Side Air Bag View



FIGURE 79. Post-Test Rear Passenger Dummy Close-Up Pelvis Contact with Vehicle Interior View

Photograph Not Applicable

No Pelvis Contact With Rear Passenger Side Airbag

FIGURE 80. Post-Test Rear Passenger Dummy Close-Up Pelvis Contact with Side Air Bag View

Photograph Not Applicable

No Passenger Dummy Close-Up Knee Contact

FIGURE 81. Post-Test Rear Passenger Dummy Close-Up Knee Contact View



FIGURE 82. Pre-Test View of Fuel Filler Cap or Fuel Filler Neck



FIGURE 83. Post-Test View of Fuel Filler Cap or Fuel Filler Neck



FIGURE 84. Pre-Test Front View of MDB Impactor Face



FIGURE 85. Post-Test Front View of MDB Impactor Face

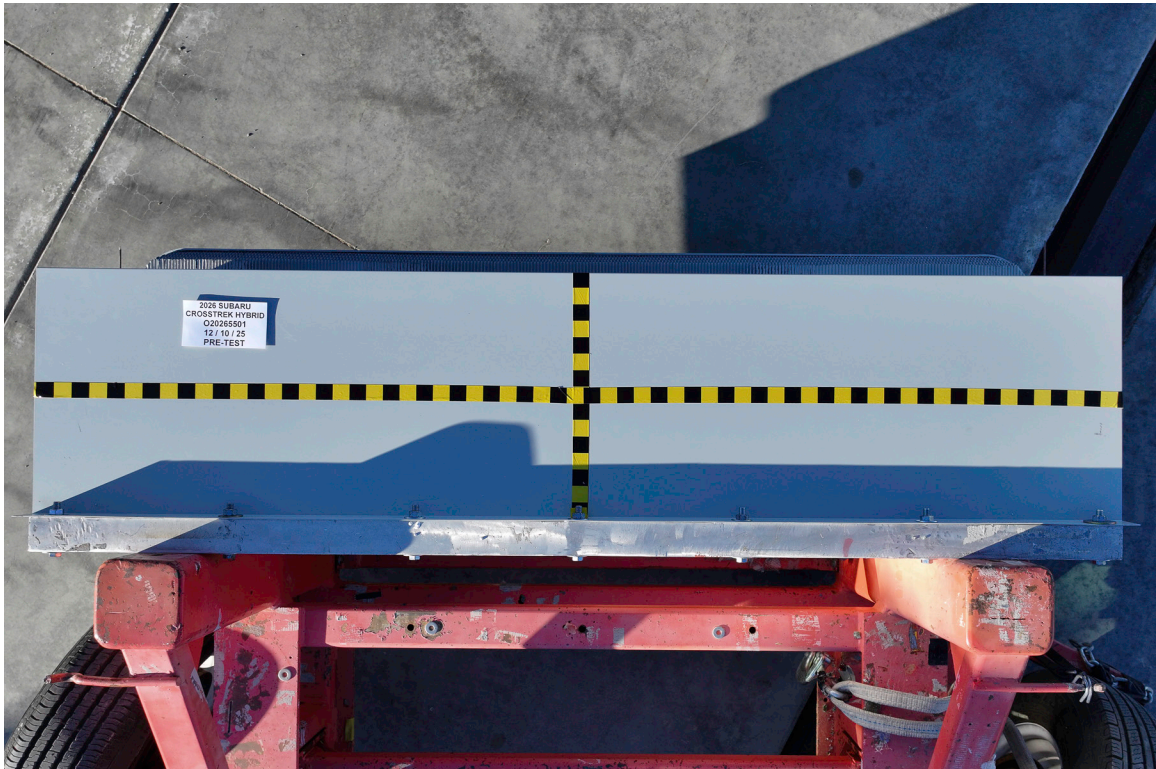


FIGURE 86. Pre-Test Top View of MDB Impactor Face



FIGURE 87. Post-Test Top View of MDB Impactor Face



FIGURE 88. Pre-Test Left Side View of MDB Impactor Face



FIGURE 89. Post-Test Left Side View of MDB Impactor Face



FIGURE 90. Pre-Test Right Side View of MDB Impactor Face



FIGURE 91. Post-Test Right Side View of MDB Impactor Face



FIGURE 92. Close-Up View of Vehicle's Certification Label



FIGURE 93. Close-Up View of Vehicle's Tire Information Placard or Label

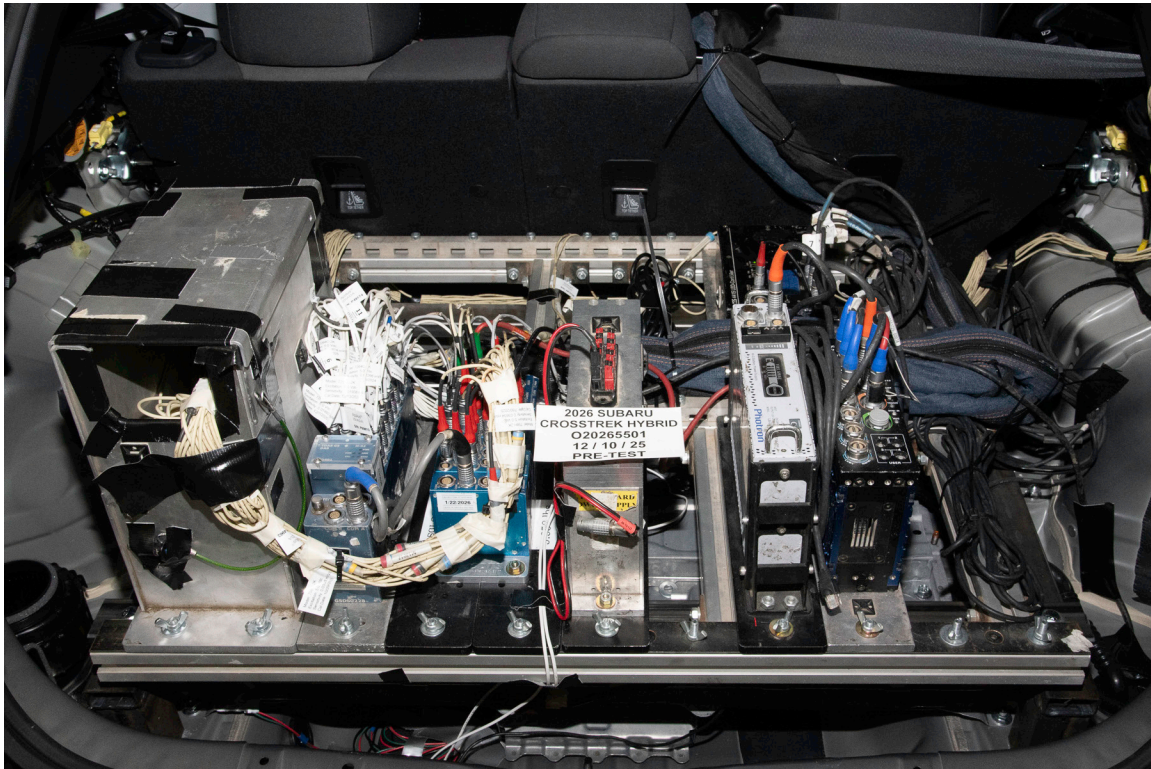


FIGURE 94. Pre-Test Ballast View



FIGURE 95. Post-Test Primary and Redundant Speed Trap Read-Out



FIGURE 96. FMVSS No. 301 Static Rollover 0 Degrees

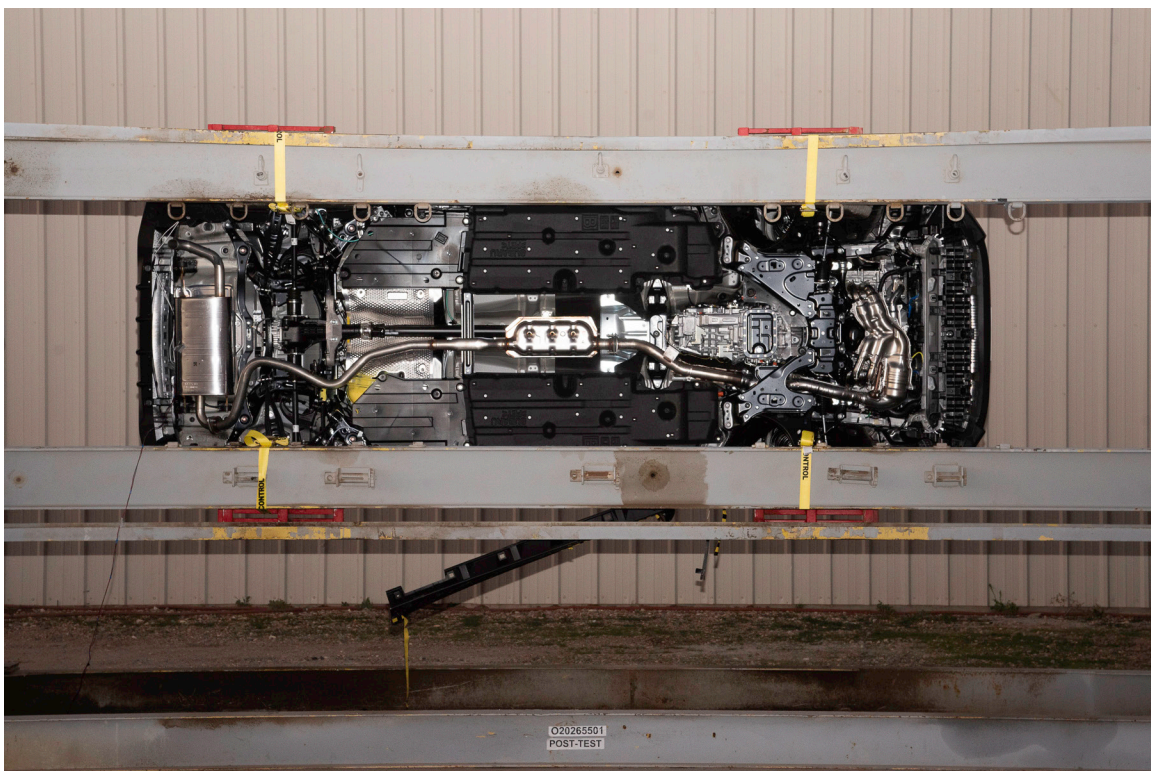


FIGURE 97. FMVSS No. 301 Static Rollover 90 Degrees



FIGURE 98. FMVSS No. 301 Static Rollover 180 Degrees



FIGURE 99. FMVSS No. 301 Static Rollover 270 Degrees



FIGURE 100. FMVSS No. 301 Static Rollover 360 Degrees



FIGURE 101. Impact Event

CROSSTREK

VIN
Model Code
Port Assembly
Delivery by Carrier

JF2GUSGDE78206499
2026 CROSSTREK SPORT HYBRID/TRE
BUENOS AIRES
TRUCK 7,456

GOVERNMENT 5-STAR SAFETY RATINGS

Overall Vehicle Score

Not Rated

Frontal Crash

Driver Passenger

Not Rated

Side Crash

Front seat Rear seat

Not Rated

Rollover

★★★★

Star ratings range from 1 to 5 stars (★★★★★) with 5 being the highest.

Source: National Highway Traffic Safety Administration (NHTSA)

www.safercar.gov or 1-888-237-4236

EPA DOT

Fuel Economy and Environment

Fuel Economy

36 MPG

combined city/hwy

Small SUVs range from 14 to 126 MPG.

The best vehicle rates 146 MPG.

You save

\$1,500

in fuel costs over 5 years compared to the average new vehicle.

2.8 gallons per 100 miles

Annual fuel cost

\$1,400

Fuel Economy & Greenhouse Gas Rating (tailpipe only)

Smog Rating (tailpipe only)

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle rates 24 MPG and costs \$8,000 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$3.30 per gallon. MPG is miles per gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fueleconomy.gov

Calculate personalized estimates and compare vehicles

PARTS CONTENT INFORMATION

FOR THIS VEHICLE:

FINAL ASSEMBLY POINT: OTA, GUNMA, JAPAN

COUNTRY OF ORIGIN: ENGINE: JAPAN

TRANSMISSION: JAPAN

FOR VEHICLES IN THIS COUNTRY:

U.S./CANADIAN PARTS CONTENT: 0%

MAJOR SOURCES OF FOREIGN PARTS CONTENT: JAPAN: 85%

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

SHIP TO: 405337

TRUST ANTELOPE VALLEY SUBARU

43226 DRIVERS WAY

LANCASTER CA 93534

SOLD TO: 405337

TRUST ANTELOPE VALLEY SUBARU

43226 DRIVERS WAY

LANCASTER CA 93534

STANDARD EQUIPMENT

SAFETY

Symmetrical All-Wheel Drive (AWD)

EyeSight Driver-Assist System w/ Automatic Emergency Steering

Advanced Adaptive Cruise Control w/ Lane Centering Assist

Blind Spot Detection w/ Rear Cross-Traffic Alert

Emergency Lane Keep Assist

Driver's Side Knee & Front Passenger Seat Cushion Airbags

Subaru Advanced Frontal Airbag System

Side Curtain Airbags w/ Roll Over Sensor

Front & Rear Side Airbags

Rear Vision Camera / Rear Seat Reminder

Collision Detection Power Door Unlock Function

Anti-Theft Alarm & Immobilizer System

Vehicle Dynamics Control (VDC)

4-Wheel Disc Brakes w/ Brake Assist

Brake Override System & Safety Pedal System

PERFORMANCE & EXTERIOR

2.5L BOXER Engine w/ Hybrid Electric Drive Technology

Lineartronic CVT w/ Hybrid-Type Manual Shift Mode / SI-DRIVE

Lithium Ion Hybrid Battery

Dual-Function X-MODE w/ Hill Descent Control

18" Dark Gray Alloy Wheels

225/55 R18 91V All-Season Tires

Roof Rails: Raised Ladder Type w/ 700lb Static Load Capacity

Power Moonroof

Full LED Steering Responsive Headlights w/ High Beam Assist

Automatic On/Off Headlights

Gloss Black Folding Power Side Mirrors w/ Integrated Turn Signals

LED Fog Lights

COMFORT, CONVENIENCE & INTERIOR

Subaru 11.6" Multimedia System w/ Navigation

Full LCD Digital Gauge Cluster Display

HD Radio & 4 Month SiriusXM w/ 360L Trial Subscription

Wireless Apple CarPlay & Android Auto

MySubaru Companion 5-Year Free Trial Available. T&Cs Apply

*Not Available to Massachusetts Residents or Businesses

10 Way Power Driver Seat w/ 2 Way Lumbar Support

Front & Rear Seat Illuminated USB A & USB C Charging Ports

Dual-Zone Automatic Climate Control w/ Air Filtration System

Heated Seats, Wipers, & Exterior Mirrors

Wireless Phone Charger

Keyless Access w/ Push-Button Start

Retractable Cargo Cover

Leather-Wrapped Steering Wheel & Shifter

LIMITED WARRANTY/ROADSIDE ASSISTANCE

3 Years / 36,000 Miles Basic

5 Years / 60,000 Miles Powertrain

8 Years / 100,000 Miles Hybrid System

3 Years / 36,000 Miles 24/7 Roadside Assistance

See Owner Info Kit & Warranty for Details

OPTIONAL EQUIPMENT AND OTHER ITEMS

Manufacturer's Suggested Retail Price

Exterior Color: Magnetite Gray Pearl

Full Tank of Gas

Standard Option: 26

Crosstrek Mirror package

Mirror Compass w/ homelink

Auto-Dimming Exterior Mirror

Rear Bumper Cover

LED Upgrade

\$33,995.00

INCLD

\$782.00

\$165.00

\$136.00

FIGURE 102. Monroney Label

48 Front Seats

Reclining the seatback

1. Pull up the reclining lever, adjust the seatback to the desired position, and then release the lever.
2. Make sure the seatback is securely locked into place.

The seatback placed in a reclined position can spring back upward with force when pulling up the lever. While operating the lever to return the seatback, hold the seatback lightly so that it may be raised back gradually.

Head Restraint Adjustment

WARNING

- Never drive the vehicle with the head restraints removed because they are designed to reduce the risk of serious neck injury in the event that the vehicle is struck from the rear. Also, never install the head restraints backwards. Doing so will prevent the head restraints from functioning as intended. Therefore, when the head restraints are removed, all head restraints must be reinstalled properly to protect vehicle occupants.
- All occupants, including the driver, should not operate a vehicle or sit in a vehicle's seat until the head restraints are placed in their proper positions in order to minimize the risk of neck injury in the event of a crash.
- The front seat head restraints are designed to be installed into the front seats only. The rear seat head restraints are designed to be installed into the rear seats only. Do not attempt to install the front seat head restraints into the

rear seats, or the rear seat head restraints into the front seats.

Both the driver's seat and front passenger's seat are equipped with head restraints. Both head restraints are adjustable in the following ways.

Head restraint height adjustment

- 1 Head restraint
- 2 Release button

To raise:

Pull the head restraint up.

To lower:

Push the head restraint down while pressing the release button on the top of the seatback.

To remove:

While pressing the release button, pull out

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

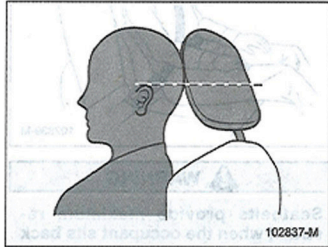
A-52

TR-P45278-01-NC

the head restraint.

To install:

Install the head restraint into the holes that are located on the top of the seatback until the head restraint locks. Press and hold the release button to lower the head restraint.



Each head restraint should be adjusted so that the center of the head restraint is closest to the top of the occupant's ears.

NOTE

It is not possible to remove or install the head restraint without reclining the front seatback. Reclining the front seatback and then remove or install the head restraint.

1-2. Seat Heater

The seat heater is equipped in the front seats.

The seat heater operates when the ignition switch is either in the "ACC" or "ON" position.

CAUTION

- Do not put hard or heavy objects or ones with protrusions on the seat, and do not stab the seat with sharp objects, such as pins or needles.
- People with delicate skin may suffer slight burns even at low temperatures if they use the seat heater for a long period of time. When using the heater, always be sure to warn the persons concerned.
- Do not put anything on the seat which insulates against heat, such as a blanket, cushion, or similar items. This may cause the seat heater to overheat.
- When the seat is warmed enough or before you leave the vehicle, be sure to turn off the seat heater.

NOTE

Use of the seat heater for a long period of time while the hybrid system is not running can cause 12 V battery discharge.

1
Seat, Seatbelt and SRS Airbags

- CONTINUED -

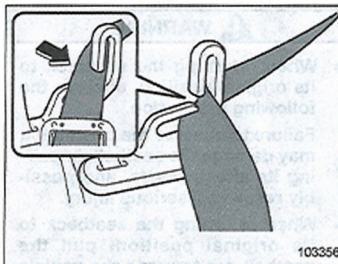
FIGURE 103a. Driver Head Restraint Use and Adjustment Information from Vehicle Owner's Manual

54 Rear Seats

To return the seatback to its original position, raise the seatback until it locks into place.

WARNING

When you return the seatback to its original position, shake it slightly to confirm that it is securely in place. If it is not securely fixed in place, it may suddenly fold down in the event of sudden braking, or objects may move out from the cargo area. Both could cause serious injury or death.



Window-side belt guide

To pass the seatbelt through the belt guide, draw out the seatbelt, insert one edge of the belt into the open gap in the belt guide, and then slide the rest of the

belt in so that the entire belt fits inside the belt guide.

CAUTION

When the seatbelt for the rear left seat is not in use, remove the seatbelt from the guide and retract it fully to avoid blocking the high voltage battery air intake. Otherwise, the high voltage battery may overheat and malfunction. For details, refer to "High Voltage Battery and High Voltage Battery Air Intake" P39.

Head Restraint Adjustment

Both the rear window side seats and the rear center seat are equipped with head restraints.

WARNING

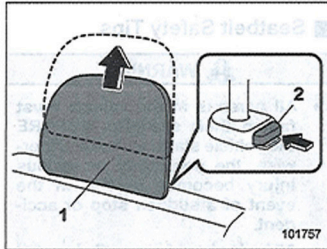
- Never drive the vehicle with the head restraints removed because they are designed to reduce the risk of serious neck injury in the event that the vehicle is struck from the rear. Therefore, when the head restraints are removed, all head restraints must be re-installed properly to protect ve-

hicle occupants.

- All occupants, including the driver, should not operate a vehicle or sit in a vehicle's seat until the head restraints are placed in their proper positions in order to minimize the risk of neck injury in the event of a crash.
- The front seat head restraints are designed to be installed into the front seats only. The rear seat head restraints are designed to be installed into the rear seats only. Do not attempt to install the front seat head restraints into the rear seats, or the rear seat head restraints into the front seats.

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

▼ Rear windows side seating position



- 1 Head restraint
2 Release button

To remove:

While pressing the release button, pull out the head restraint.

To install:

Install the head restraint into the holes that are located on the top of the seatback until the head restraint locks. Press and hold the release button to lower the head restraint.

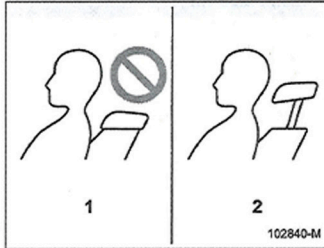
After installing the head restraint, make sure it is securely locked.

NOTE

When the head restraint cannot be pulled out or installed due to insuffi-

cient clearance between the head restraint and the roof, tilt the seat and then perform the installation and removal tasks.

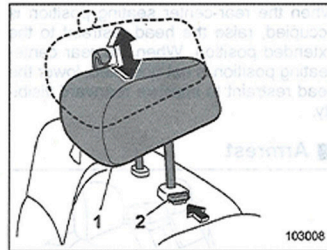
▼ Rear center seating position



- 1 Incorrect (retracted position)
2 Correct (extended position)

CAUTION

The head restraint is not intended to be used in the retracted position. Before sitting on the seat, raise the head restraint to the extended position.



- 1 Head restraint
2 Release button

To raise:

Pull the head restraint up.

To lower:

Push the head restraint down while pressing the release button on the top of the seatback.

To remove:

While pressing the release button, pull out the head restraint.

To install:

Install the head restraint into the holes that are located on the top of the seatback until the head restraint locks. Press and hold the release button to lower the head restraint.

— CONTINUED —

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



FIGURE 305-01. First Responder Warning Label



FIGURE 305-02. First Responder Warning Location



FIGURE 305-03. Other Vehicle Label(s) Related to Electrical Propulsion System

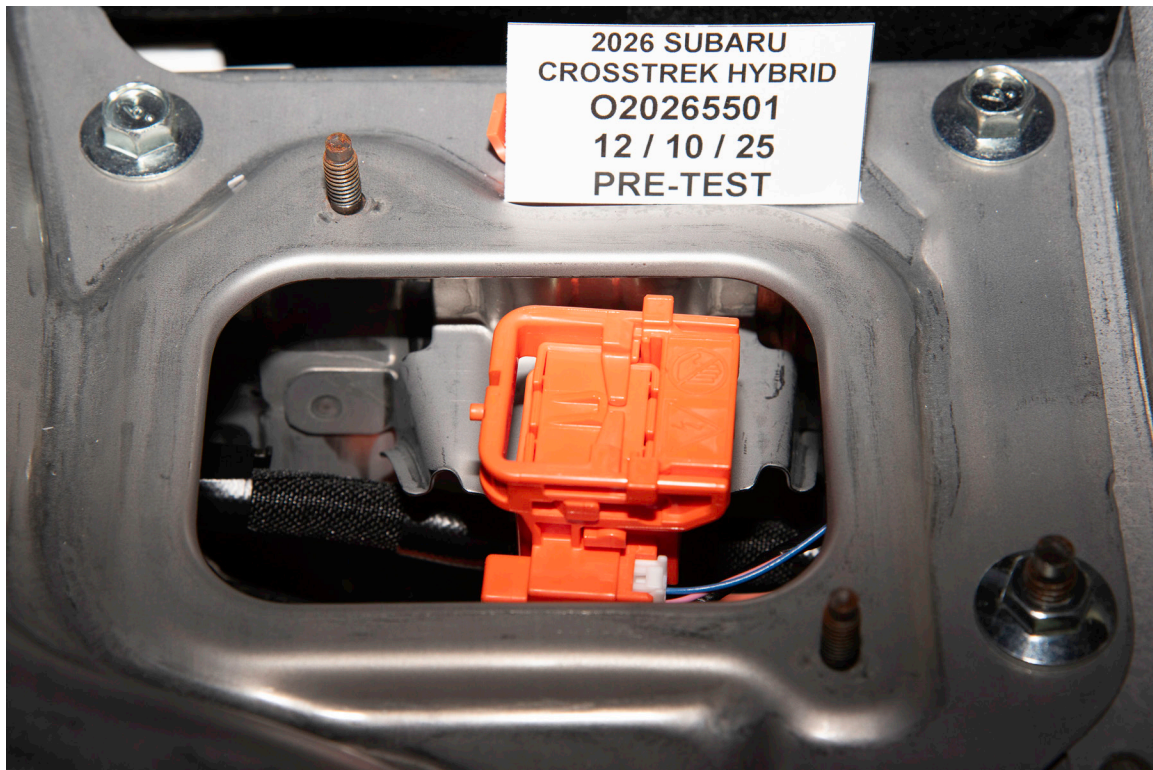


FIGURE 305-04. Manual High Voltage Service Disconnect in Place

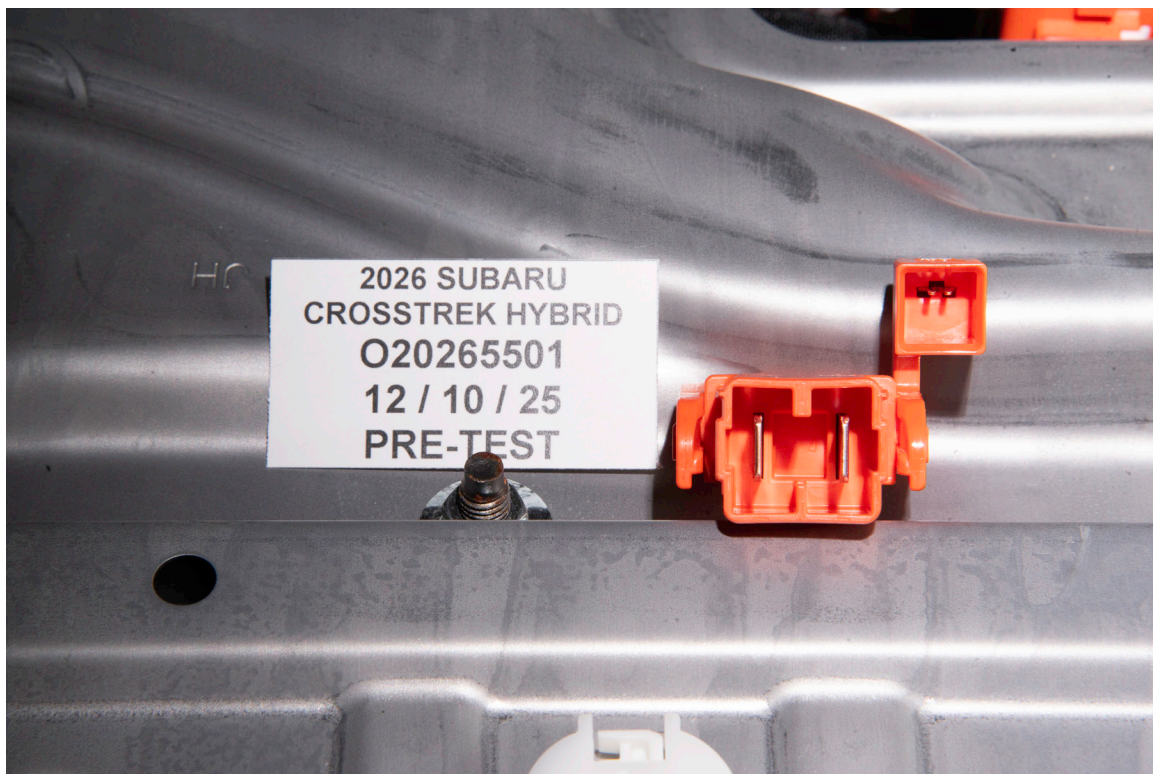


FIGURE 305-05. Manual High Voltage Service Disconnect Removed

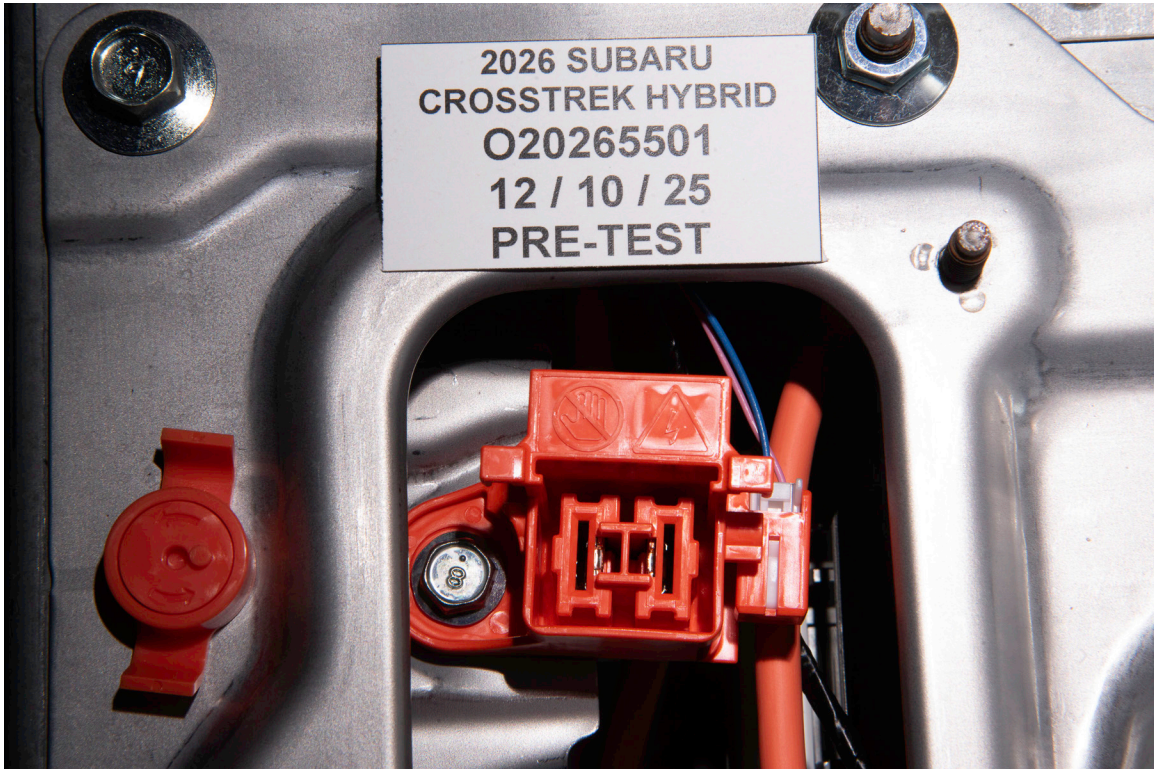


FIGURE 305-06. Manual High Voltage Service Disconnect Removed



FIGURE 305-07. Pre-Impact View of Propulsion Battery

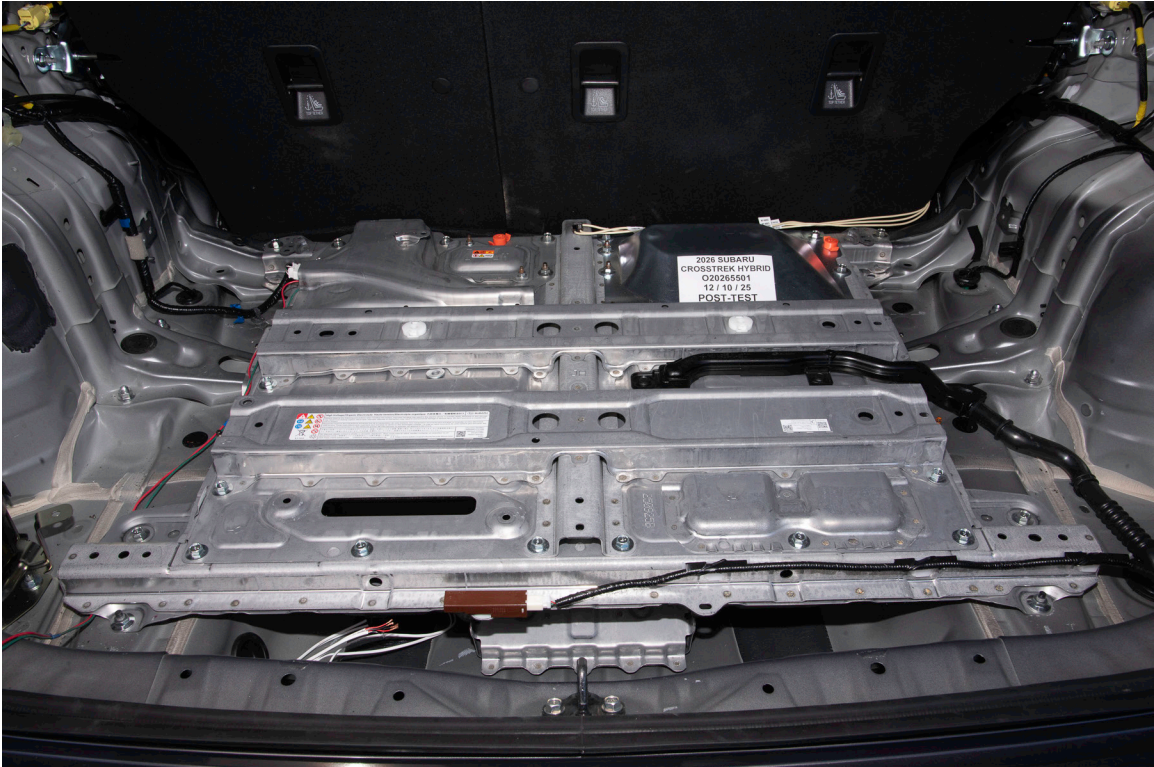


FIGURE 305-08. Post-Impact Rear View of Propulsion Battery

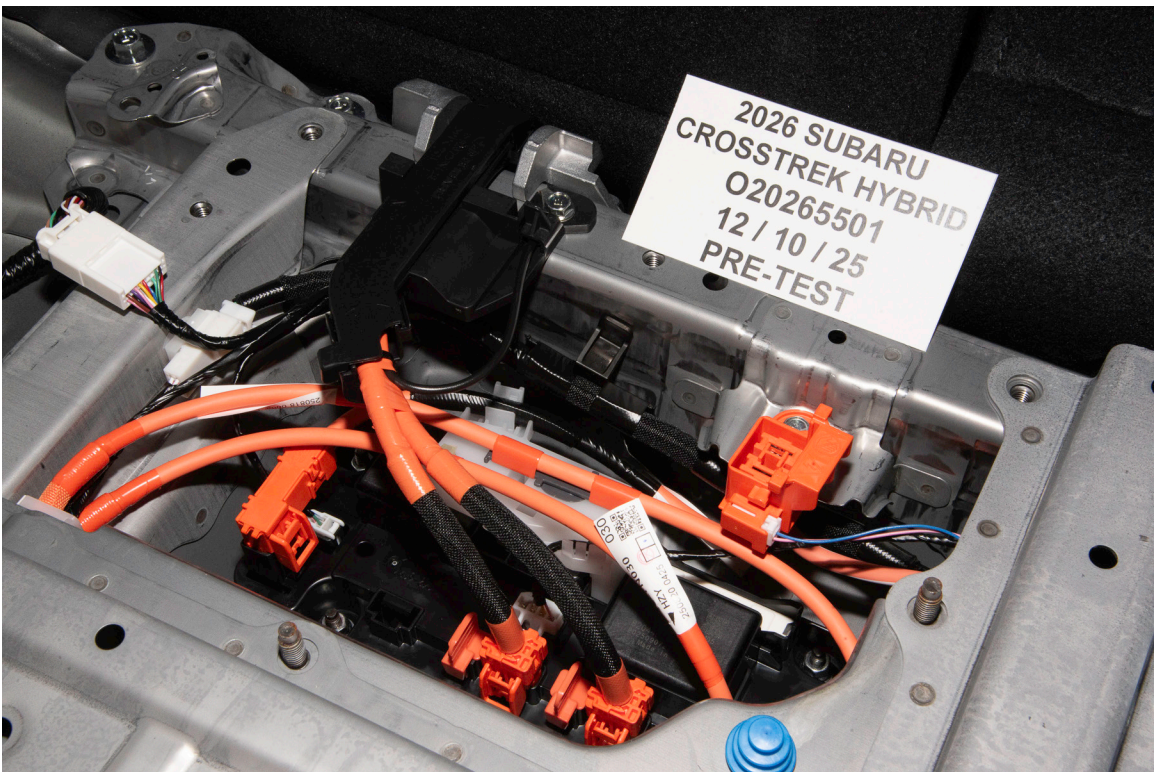


FIGURE 305-09. Pre-Impact View of High Voltage Interconnect(s)

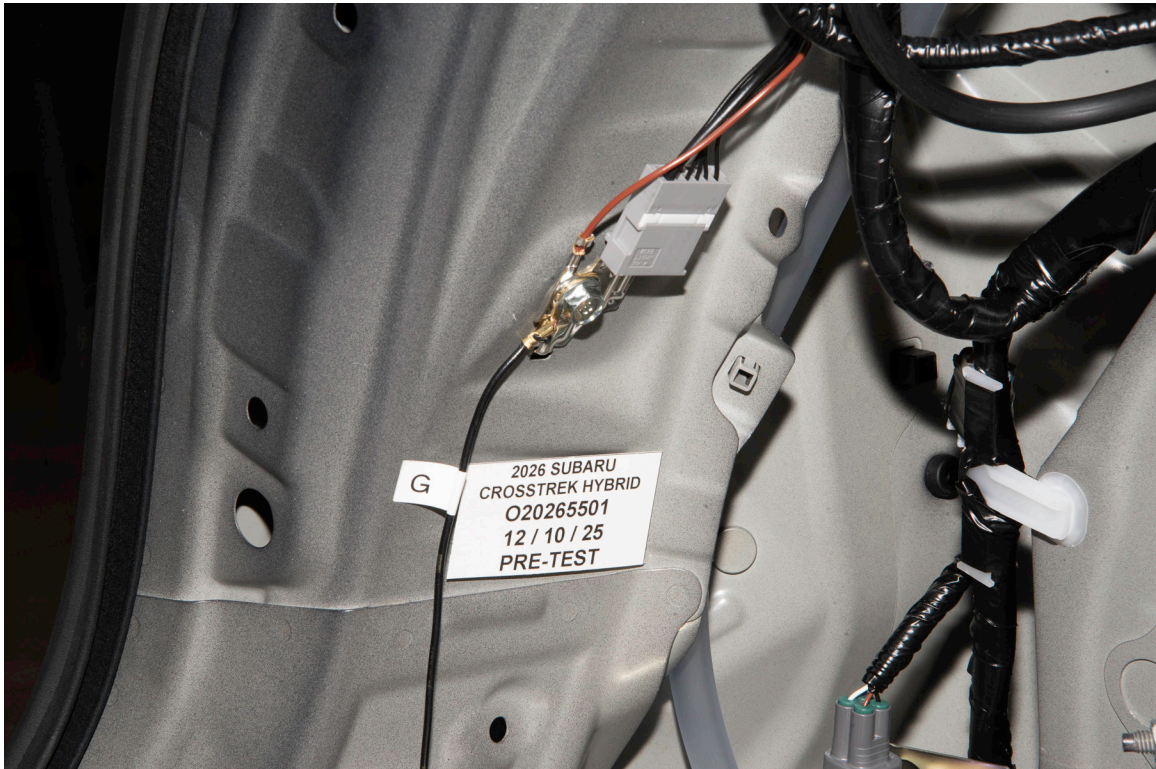


FIGURE 305-010. Pre-Impact View of Ground Lead Attached

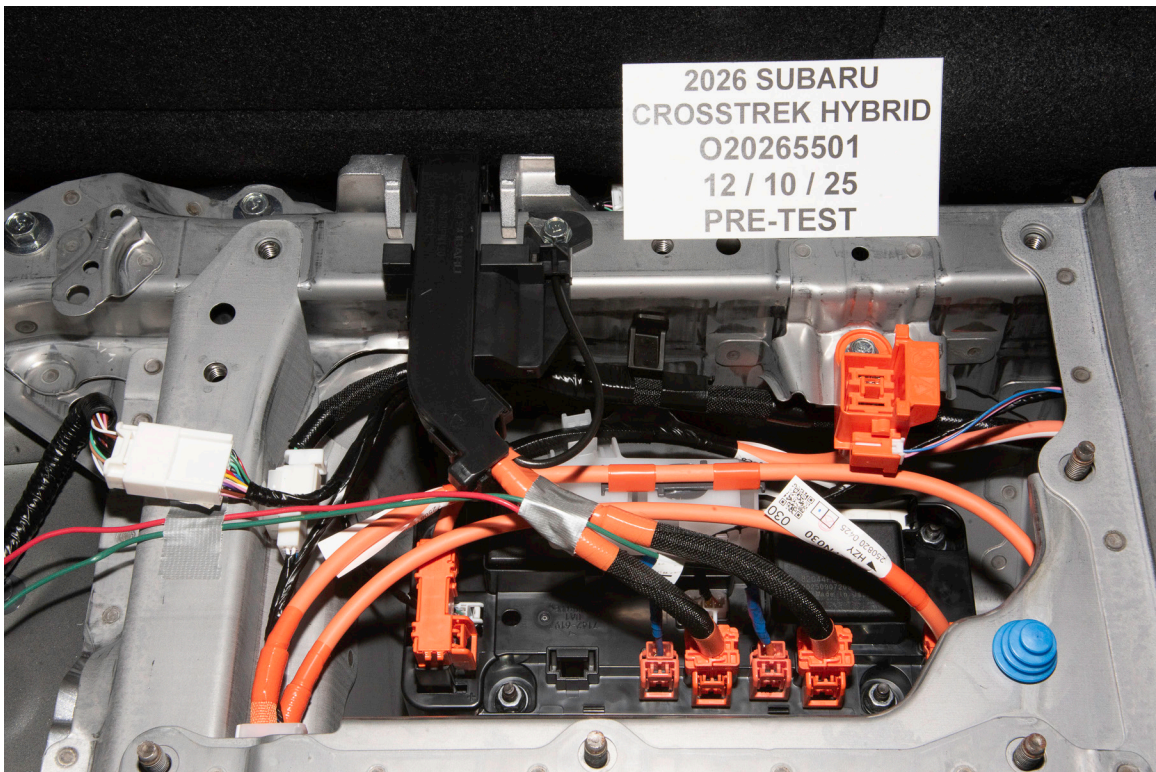


FIGURE 305-011. Pre-Impact View of High Voltage Leads Attached

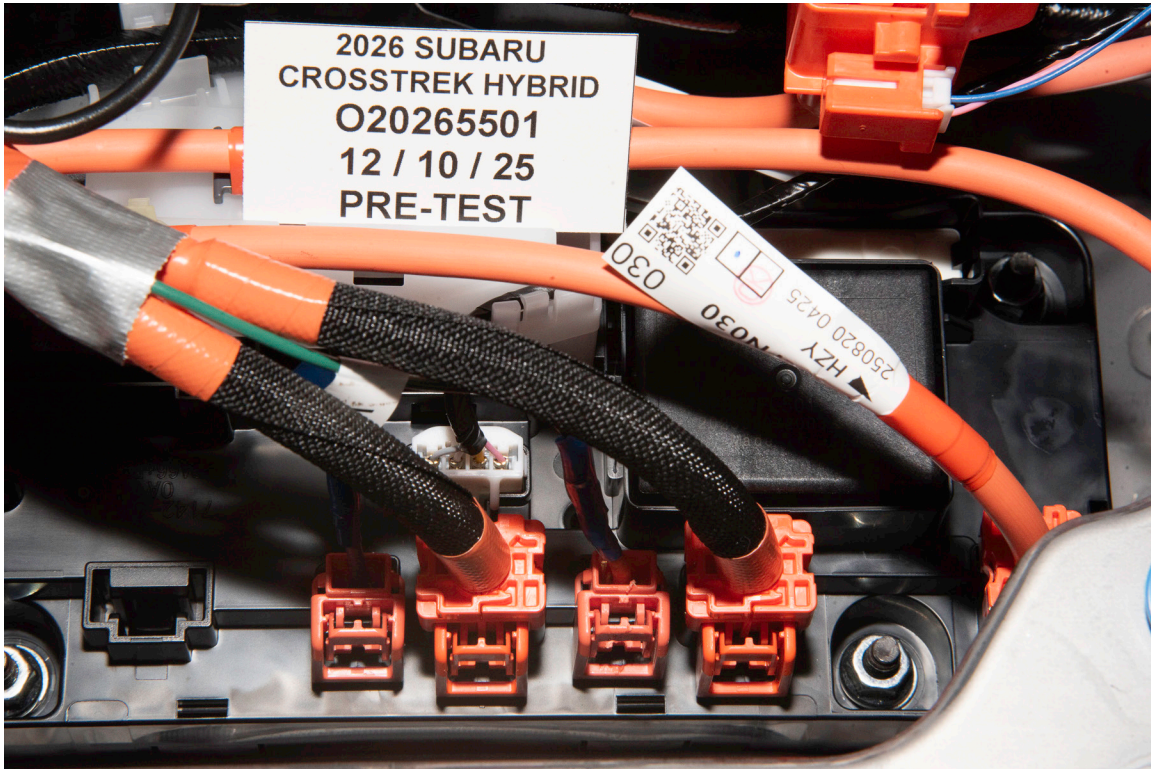


FIGURE 305-012. Pre-Impact Close-Up View of High Voltage Leads Attached

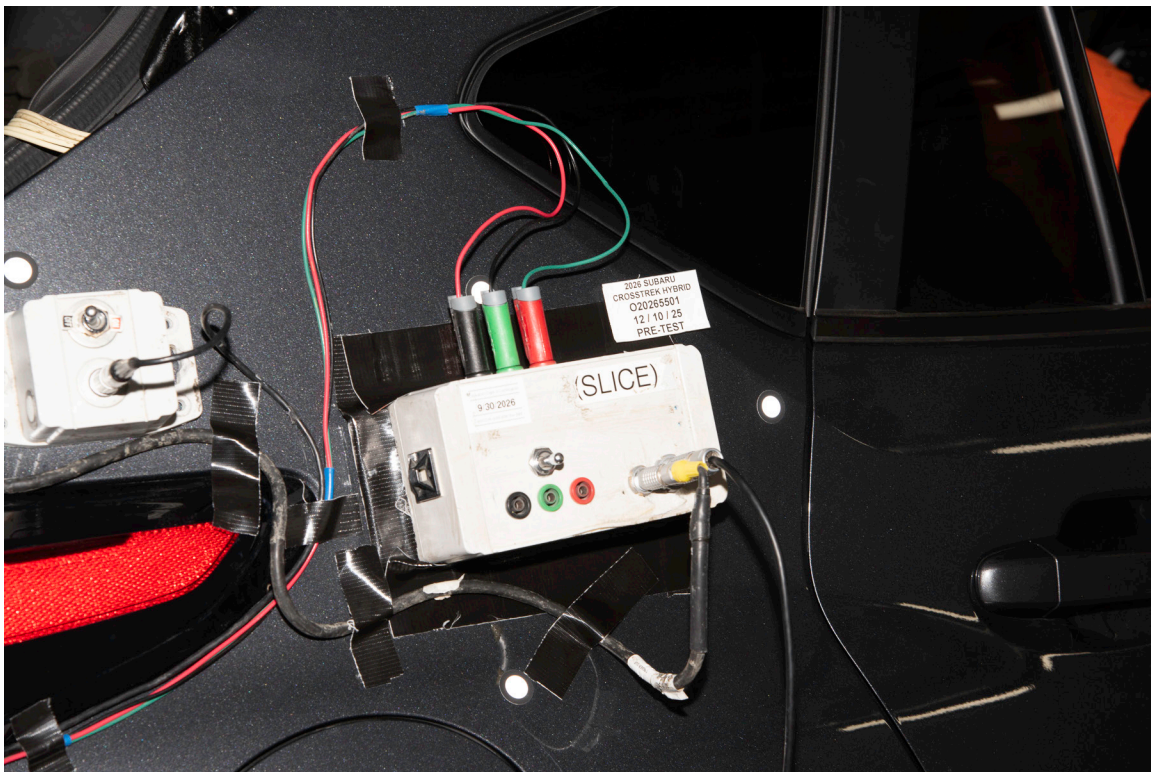


FIGURE 305-013. Pre-Impact View of Installed Test Interface Port

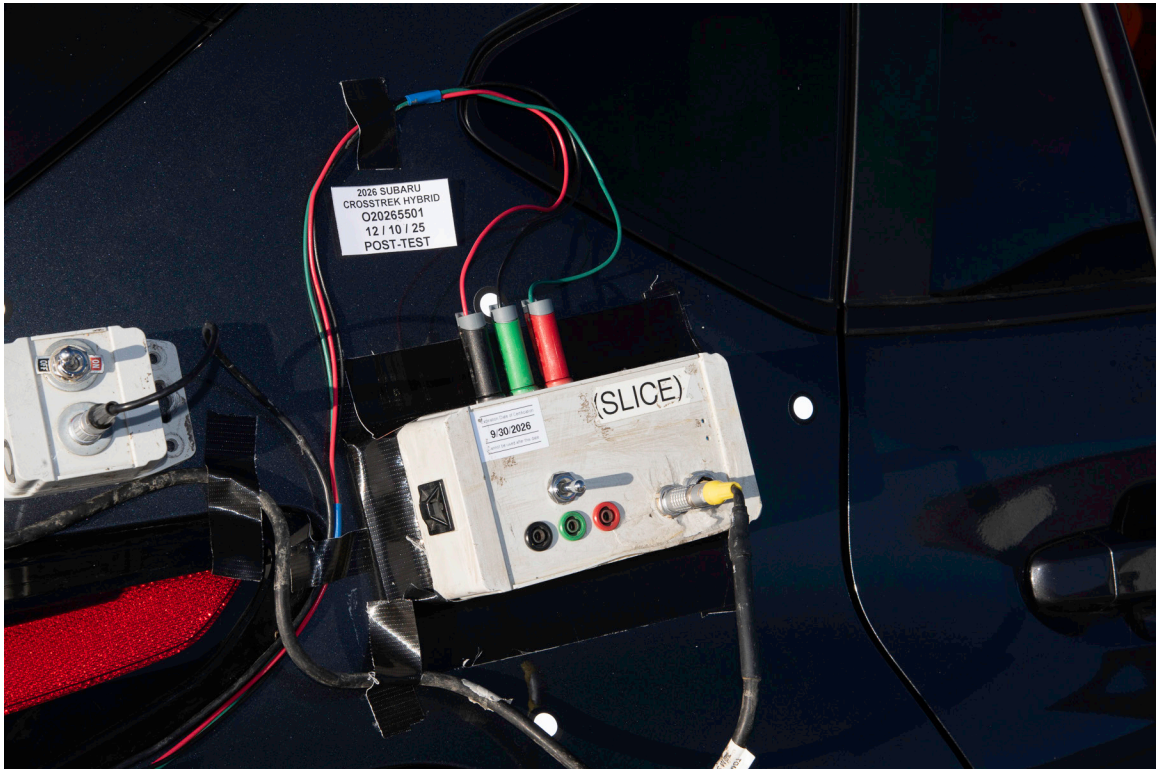


FIGURE 305-014. Post-Impact View of Installed Test Interface Port

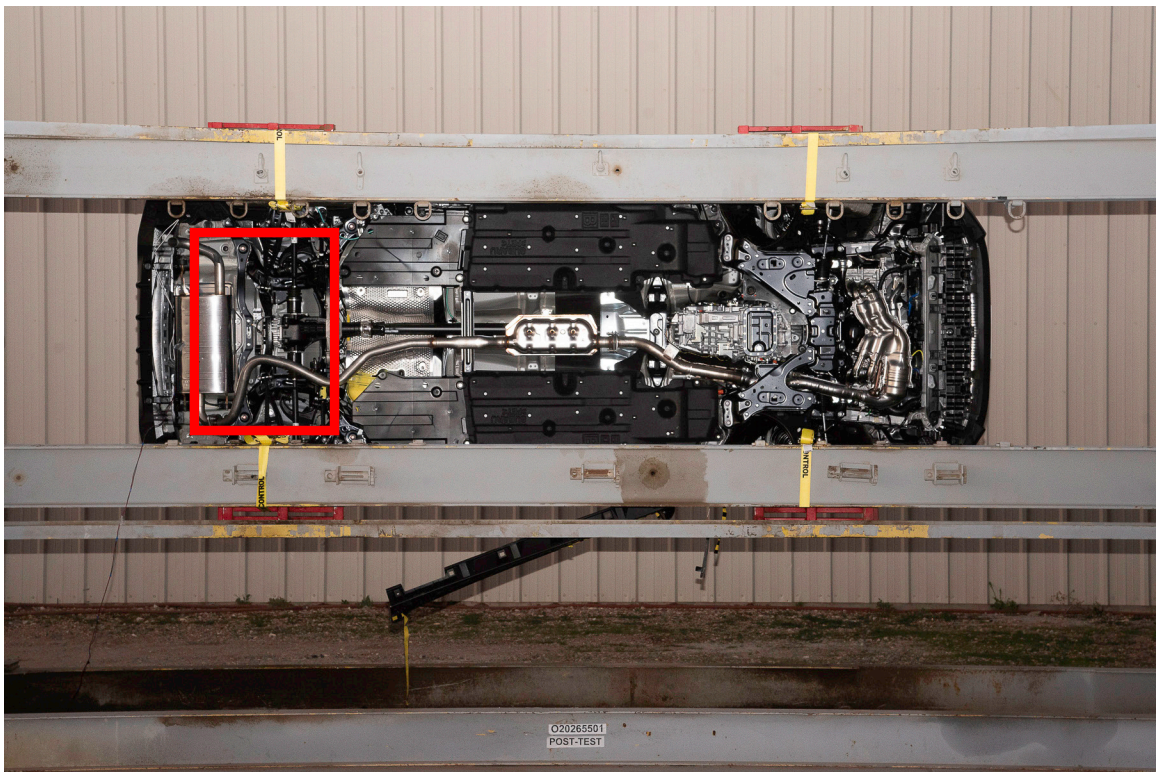


FIGURE 305-015. FMVSS No. 305 Static Rollover at 90°



FIGURE 305-016. FMVSS No. 305 Static Rollover at 180°



FIGURE 305-017. FMVSS No. 305 Static Rollover at 270°

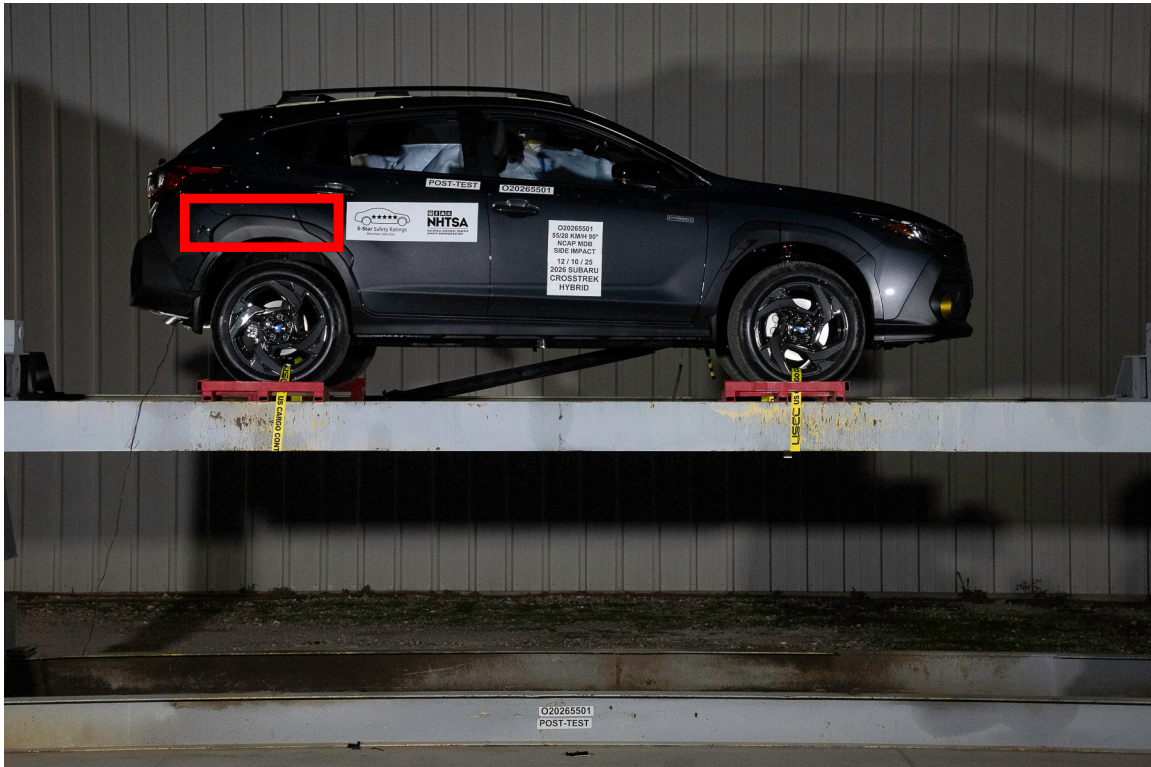


FIGURE 305-018. FMVSS No. 305 Static Rollover at 360°



FIGURE 305-019. Pre-Impact View of the Vehicle Passenger Compartment Adjacent to Propulsion Battery



FIGURE 305-020. Post-Impact View of the Vehicle Passenger Compartment Adjacent to Propulsion Battery

APPENDIX B
VEHICLE AND DUMMY RESPONSE DATA PLOTS

TABLE OF DATA PLOTS

Plot		Page
1	Driver Head Acceleration (X) Primary vs. Time	B-1
2	Driver Head Acceleration (Y) Primary vs. Time	B-1
3	Driver Head Acceleration (Z) Primary vs. Time	B-1
4	Driver Head Resultant Acceleration Primary vs. Time	B-1
5	Driver Upper Thorax Rib Deflection (Y) vs. Time	B-2
6	Driver Middle Thorax Rib Deflection (Y) vs. Time	B-2
7	Driver Lower Thorax Rib Deflection (Y) vs. Time	B-2
8	Driver Thorax Rib Deflection Maximum vs. Time	B-2
9	Driver Anterior Abdominal Force (Y) vs. Time	B-3
10	Driver Middle Abdominal Force (Y) vs. Time	B-3
11	Driver Posterior Abdominal Force (Y) vs. Time	B-3
12	Driver Total Abdominal Force (Y) vs. Time	B-3
13	Driver Pubic Symphysis Force (Y) vs. Time	B-4
14	Passenger Head Acceleration (X) vs. Time Primary	B-5
15	Passenger Head Acceleration (Y) vs. Time Primary	B-5
16	Passenger Head Acceleration (Z) vs. Time Primary	B-5
17	Passenger Head Resultant Acceleration Primary vs. Time	B-5
18	Passenger Lower Spine T12 Acceleration (X) vs. Time	B-6
19	Passenger Lower Spine T12 Acceleration (Y) vs. Time	B-6
20	Passenger Lower Spine T12 Acceleration (Z) vs. Time	B-6
21	Passenger Lower Spine T12 Resultant Acceleration vs. Time	B-6
22	Passenger Iliac Force on Impact Side (Y) vs. Time	B-7
23	Passenger Acetabulum Force on Impact Side (Y) vs. Time	B-7
24	Passenger Total Pelvic Force on Impact Side (Y) vs. Time	B-7
25	Passenger Upper Thorax Rib Deflection (Y) vs. Time	B-8
26	Passenger Middle Thorax Rib Deflection (Y) vs. Time	B-8
27	Passenger Lower Thorax Rib Deflection (Y) vs. Time	B-8
28	Passenger Upper Abdomen Rib Deflection (Y) vs. Time	B-8
29	Passenger Lower Abdomen Rib Deflection (Y) vs. Time	B-9

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

Additional Driver & Passenger Dummy Instrumentation Data

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

Vehicle Instrumentation Data

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

Engine Block (X)

Engine Block (Y)

Rear Floorpan Above Axle Acceleration (X)

Rear Floorpan Above Axle Acceleration (Y)

Rear Floorpan Above Axle Acceleration (Z)

MDB Instrumentation Data

MDB Center of Gravity Acceleration (X)

MDB Center of Gravity Acceleration (Y)

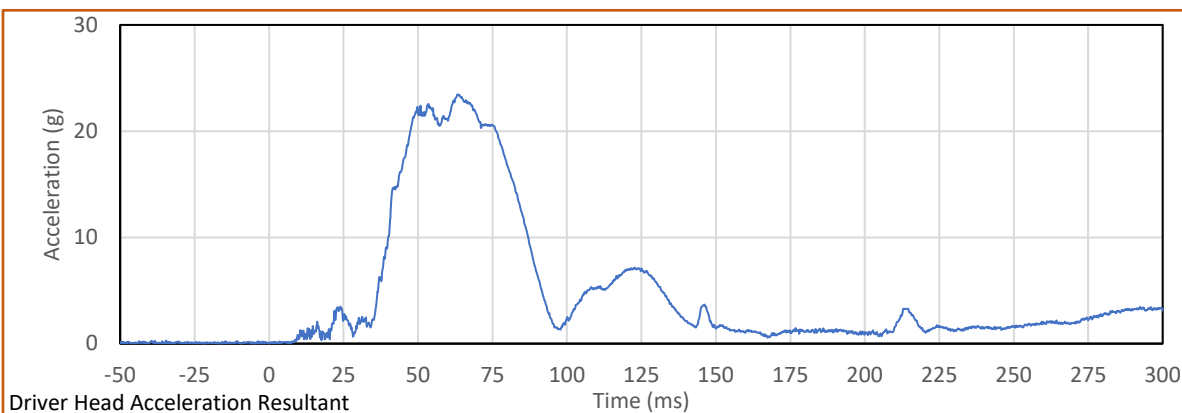
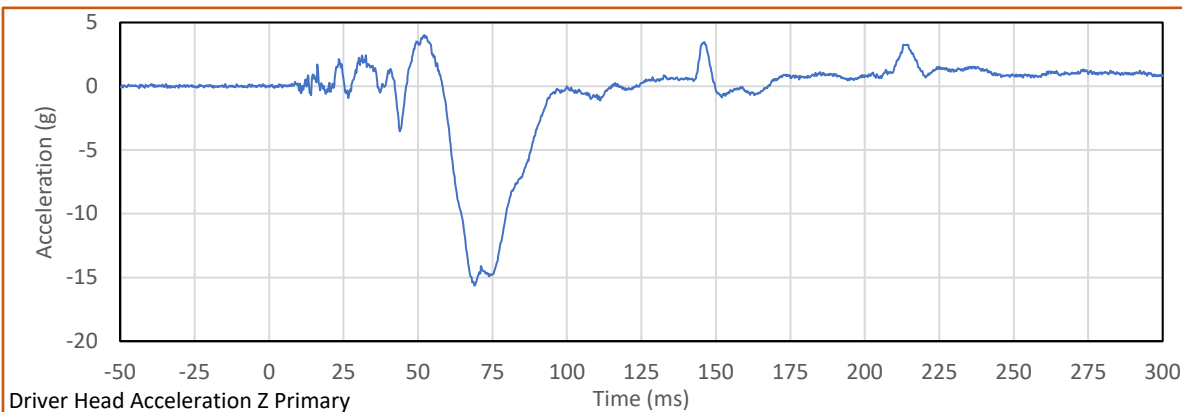
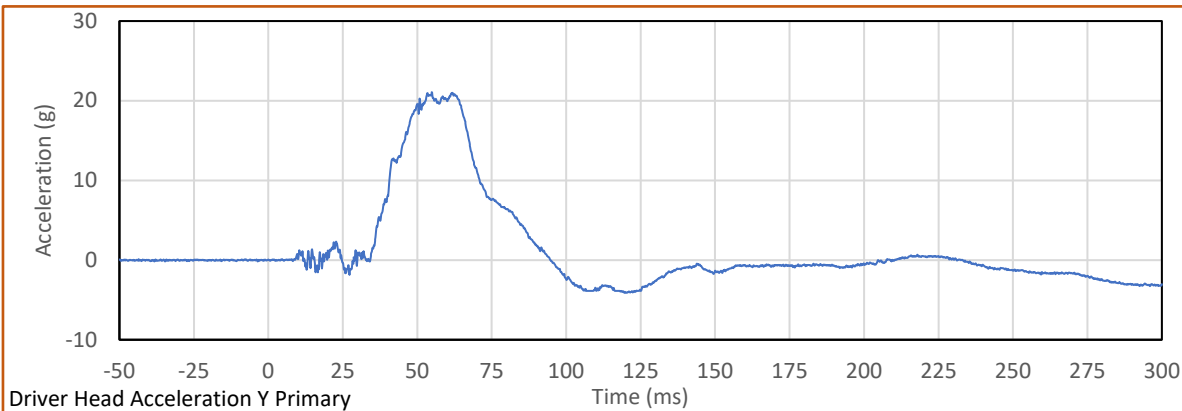
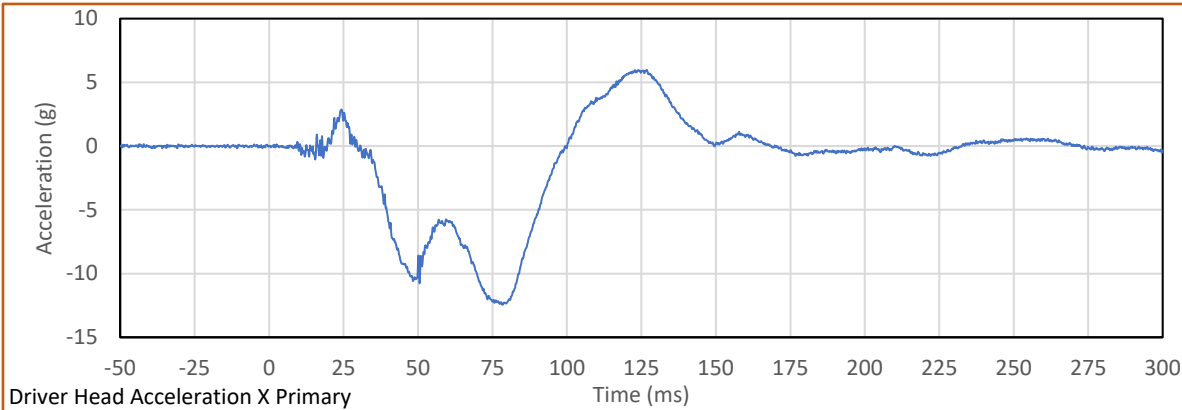
MDB Center of Gravity Acceleration (Z)

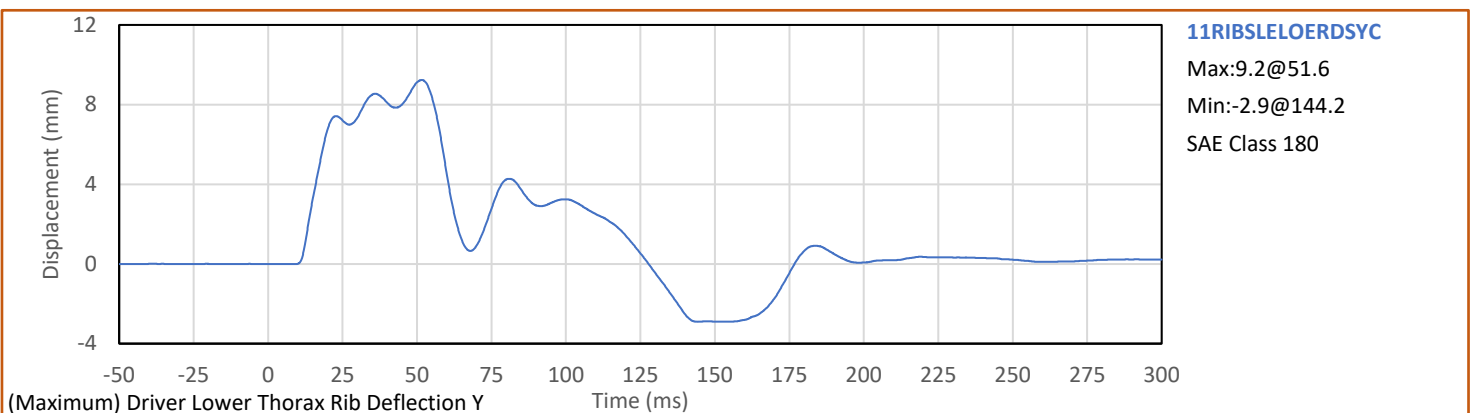
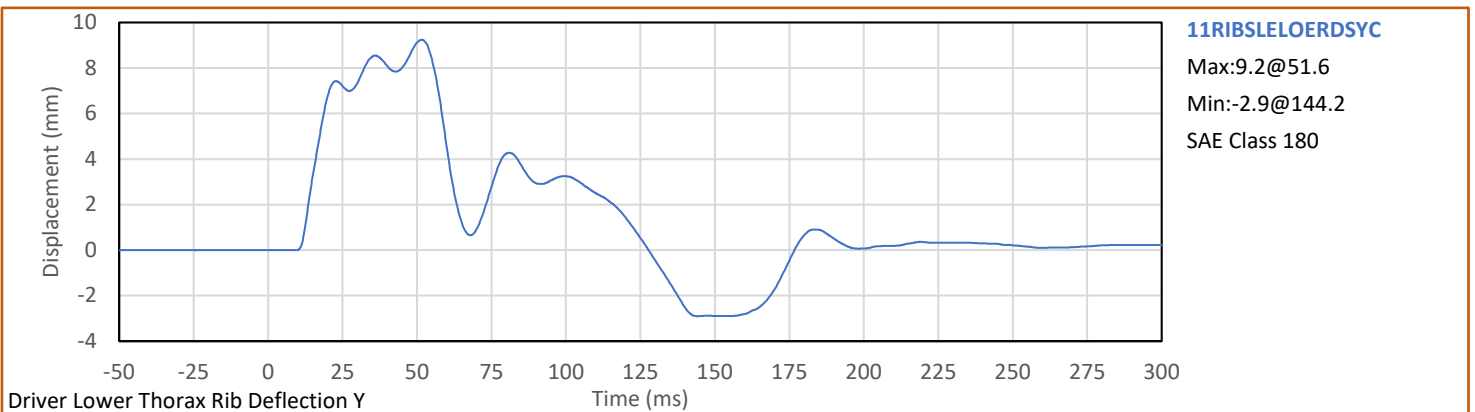
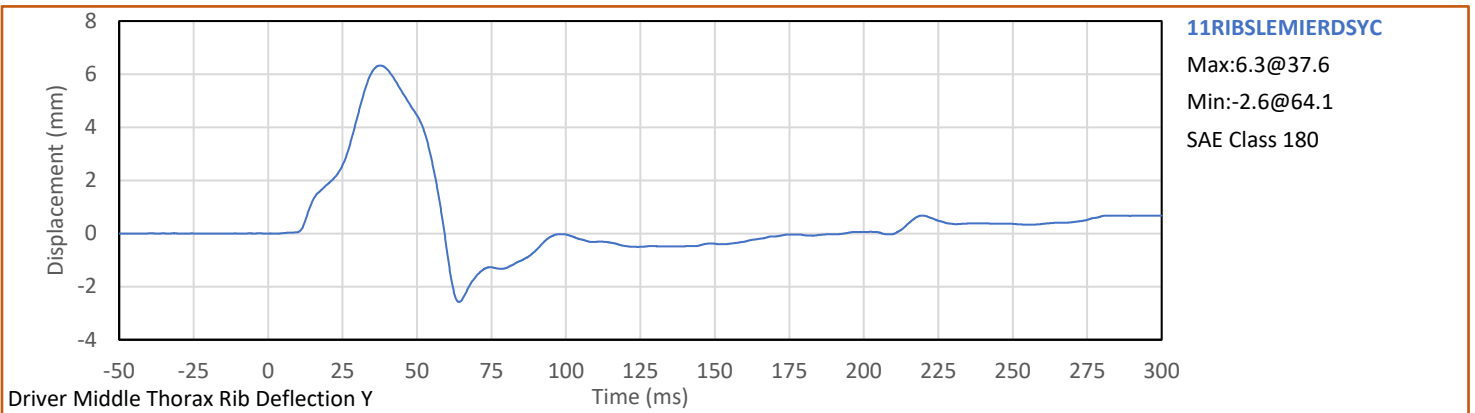
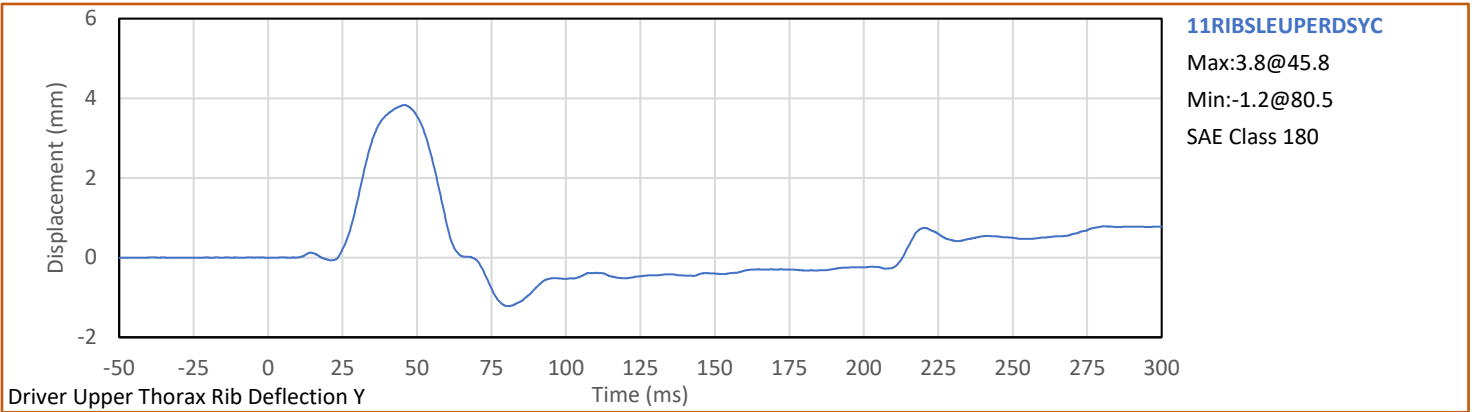
MDB Rear Acceleration (X)

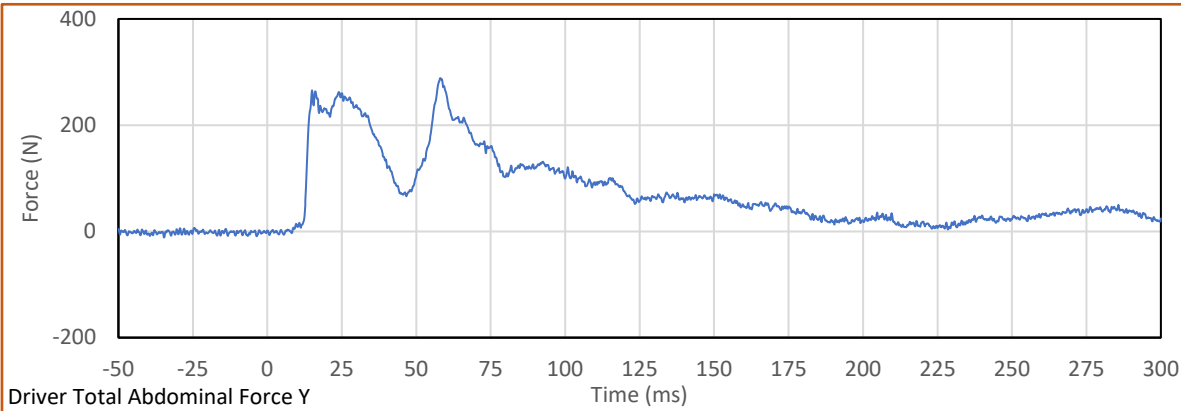
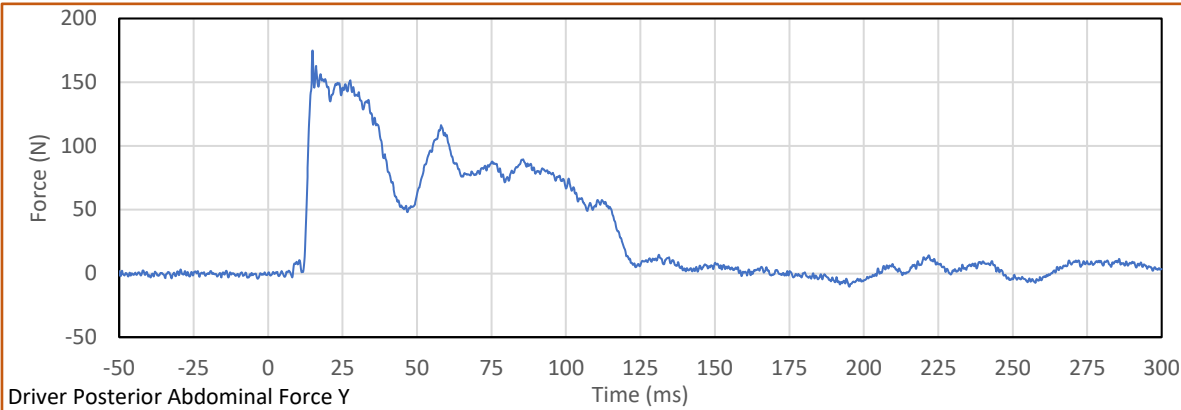
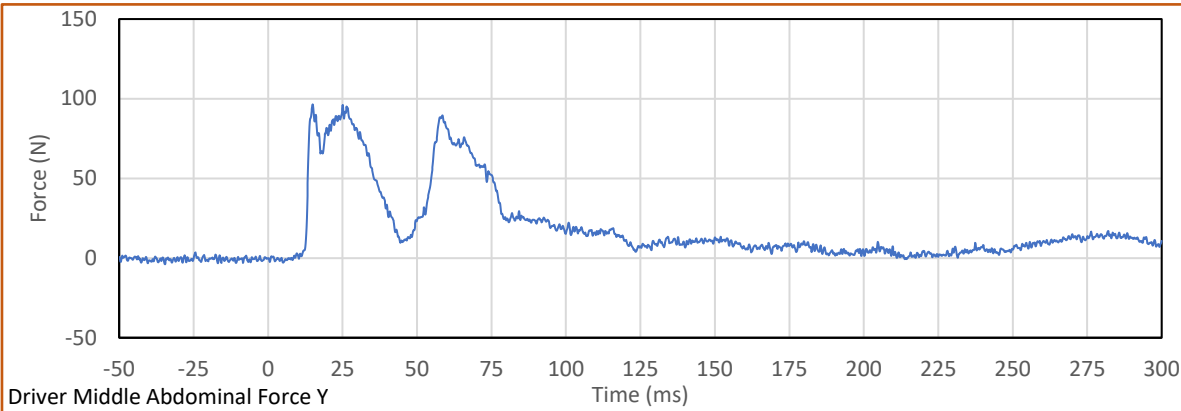
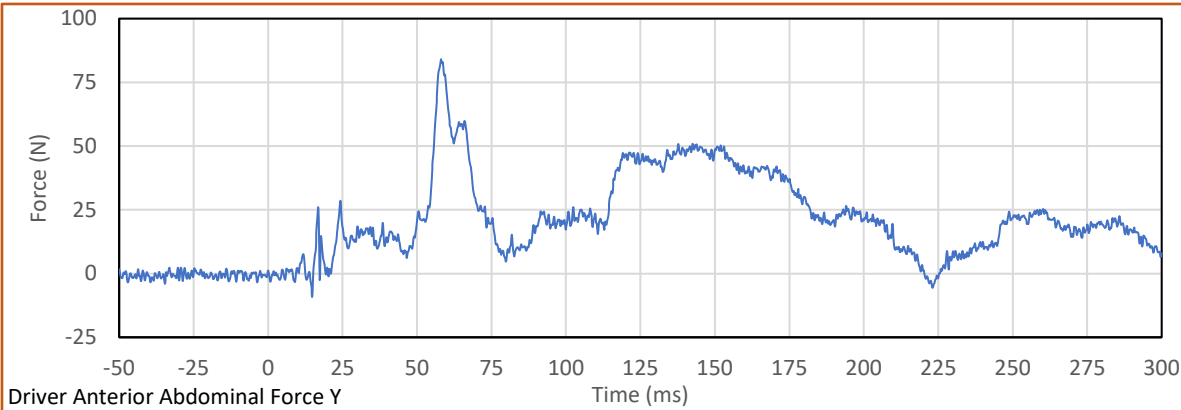
MDB Rear Acceleration (Y)

Left MDB Contact Switch

Right MDB Contact Switch

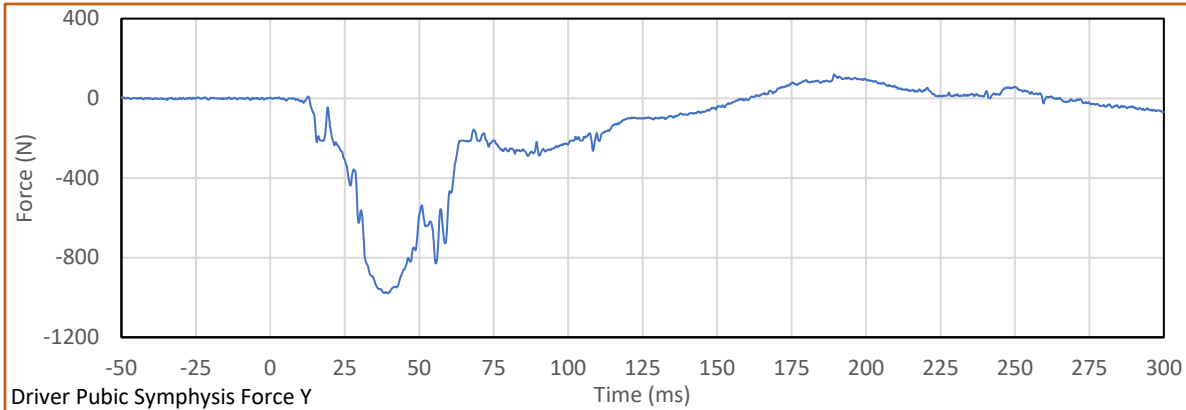


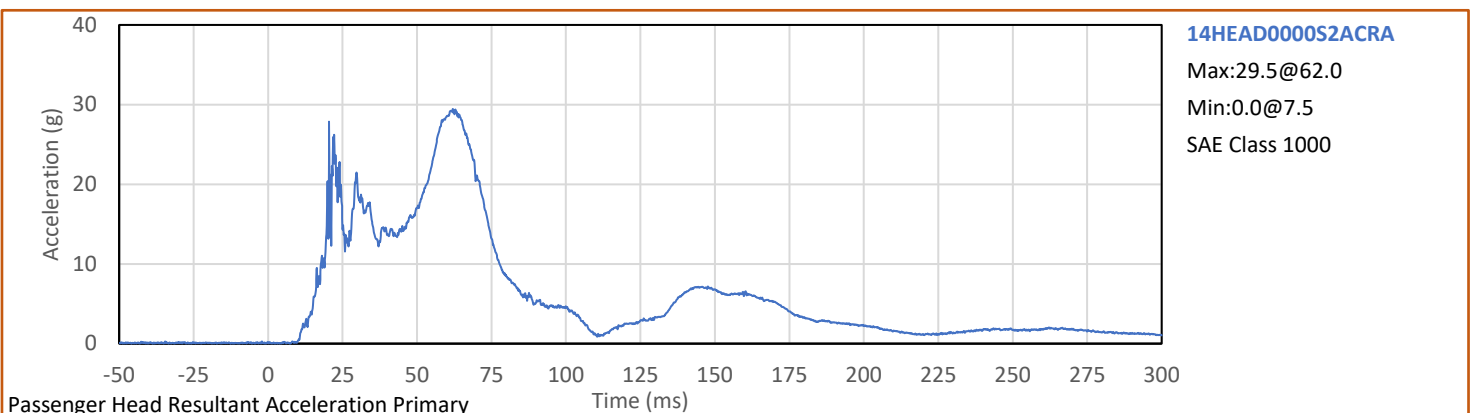
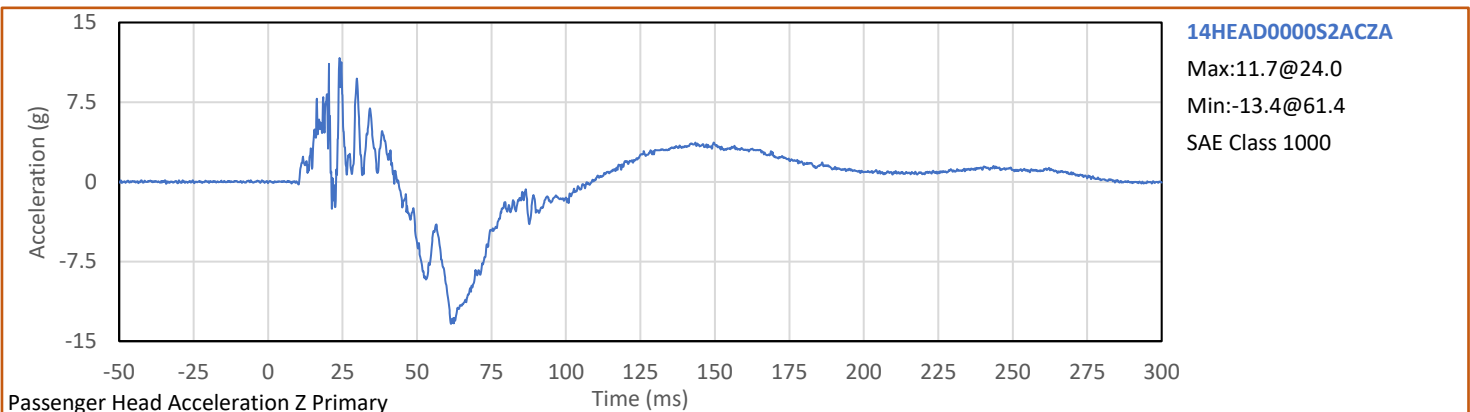
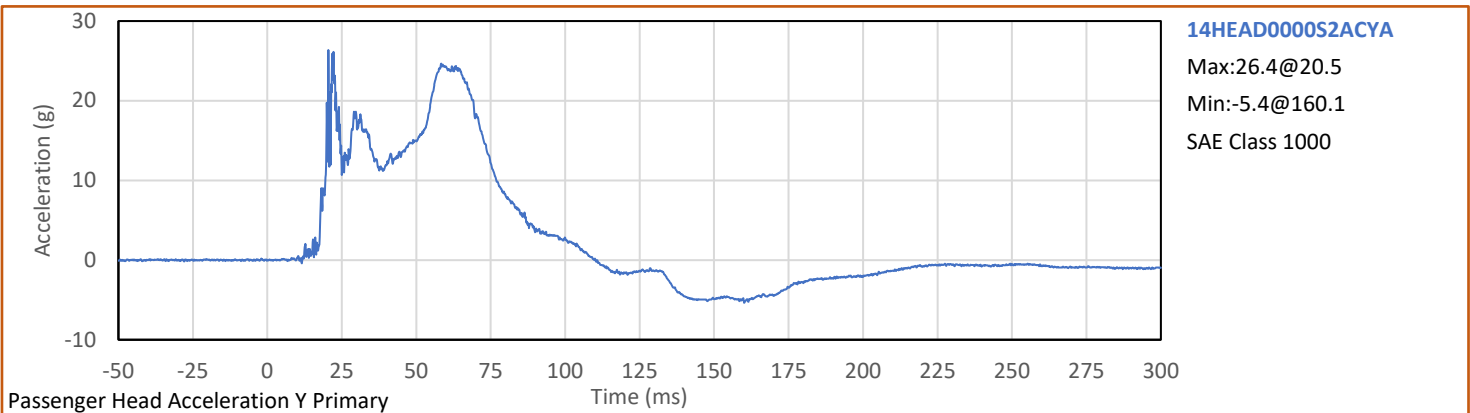
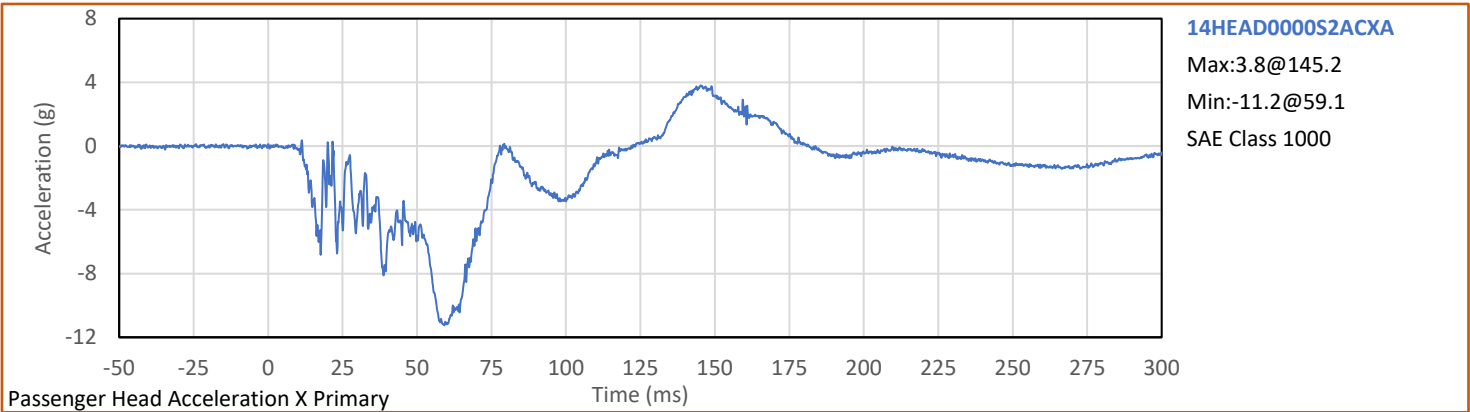


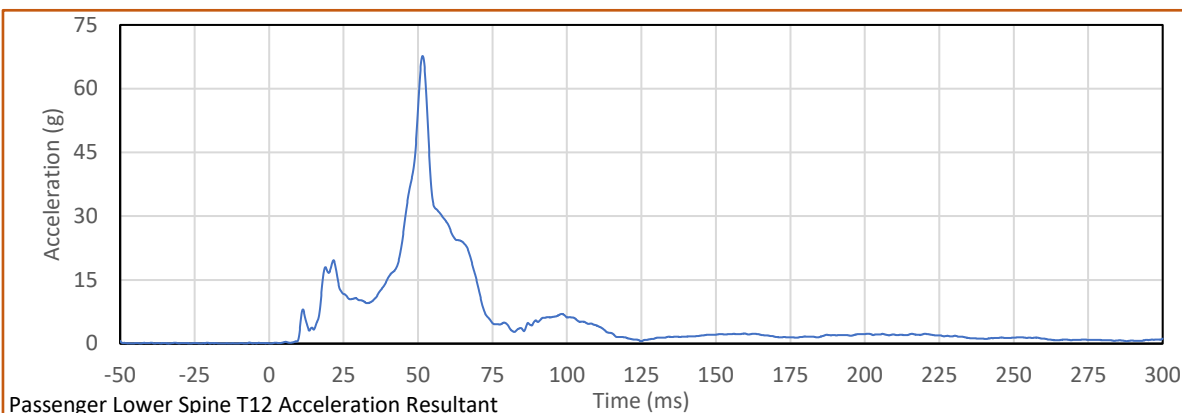
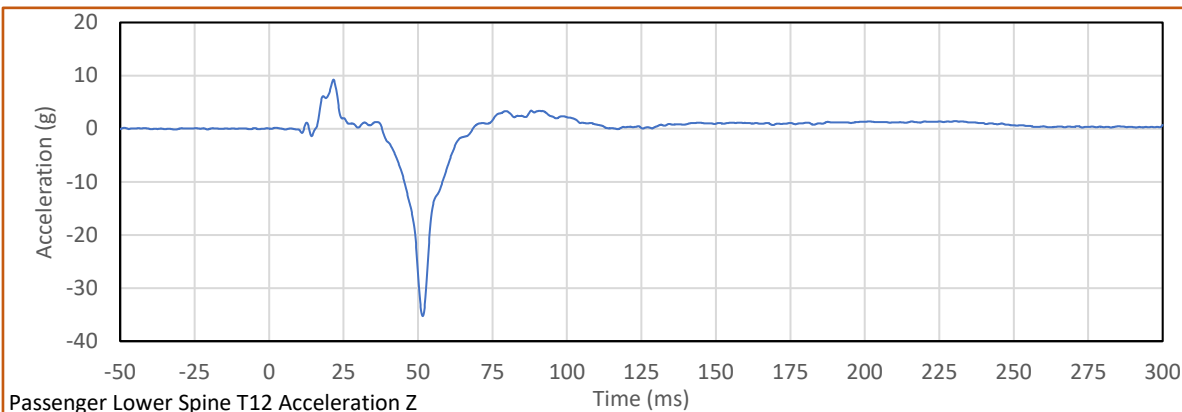
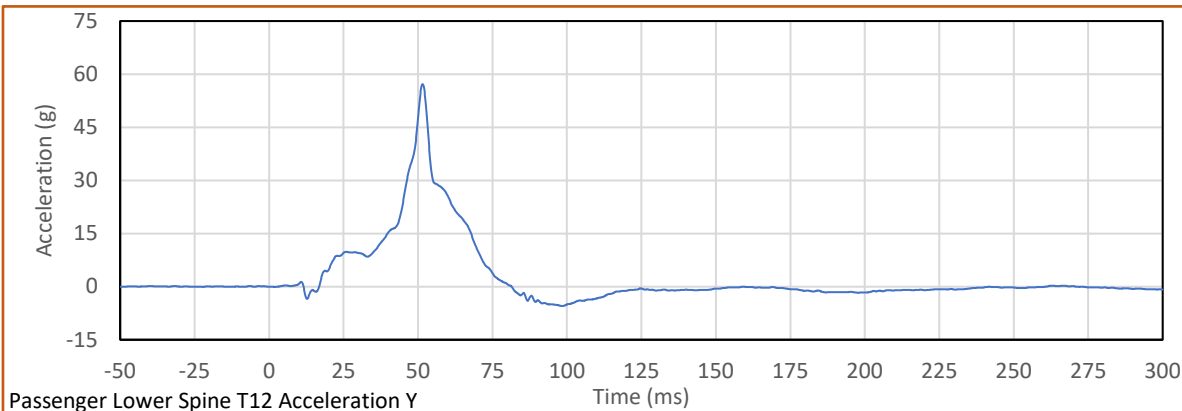
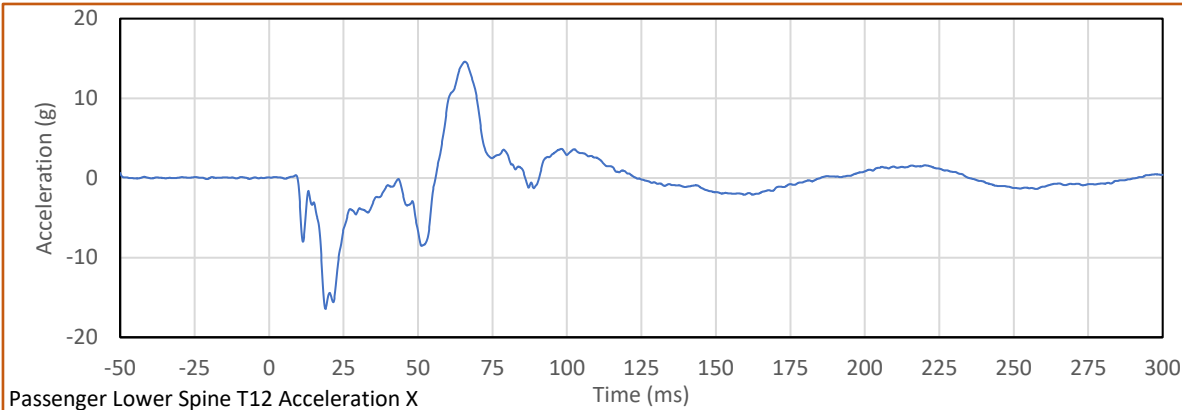


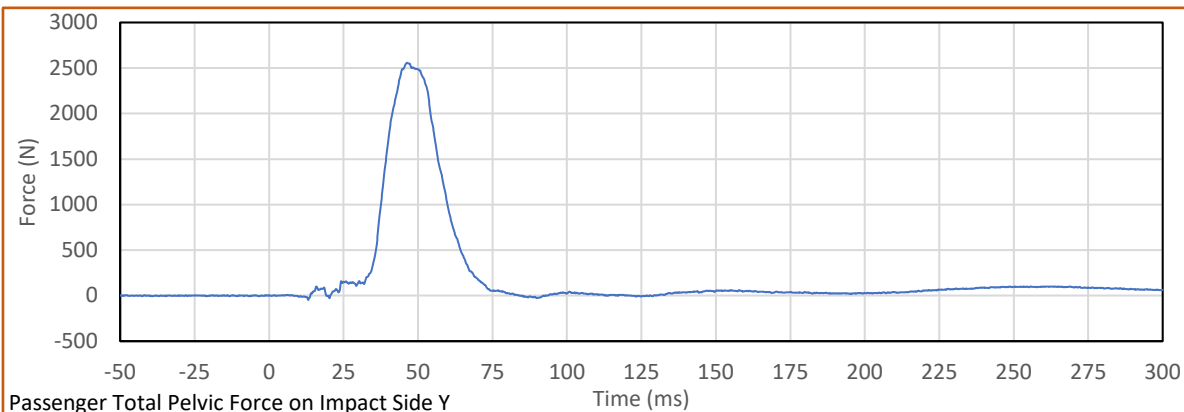
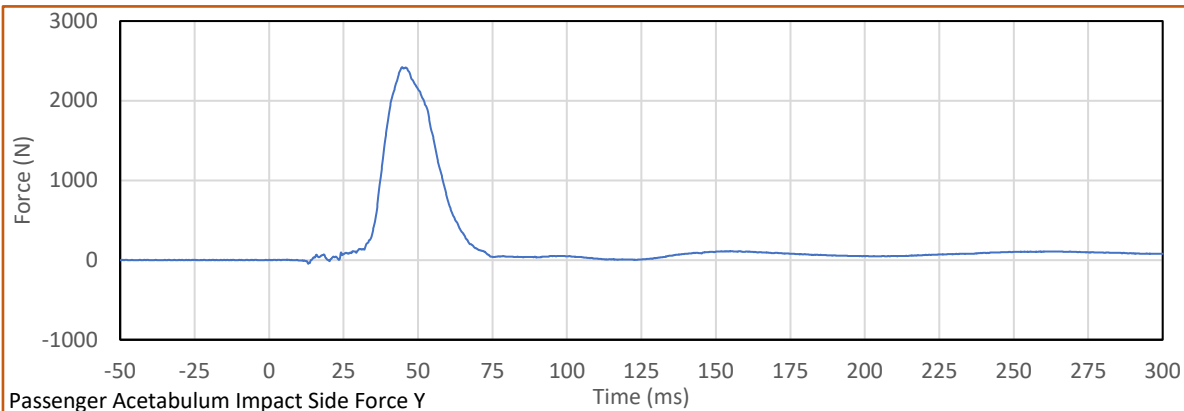
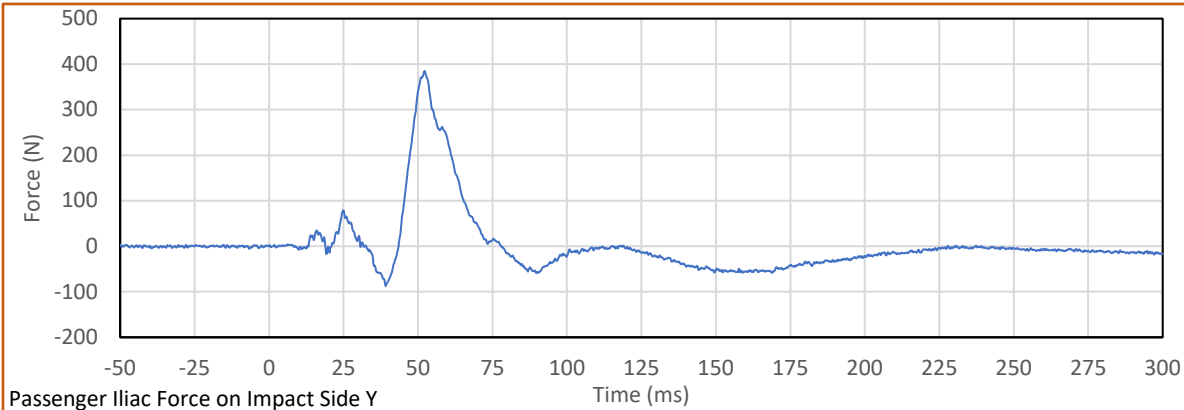
Test Vehicle: 2026 Subaru Crosstrek 5-Door MPV
Test Program: NCAP MDB Side Impact Test

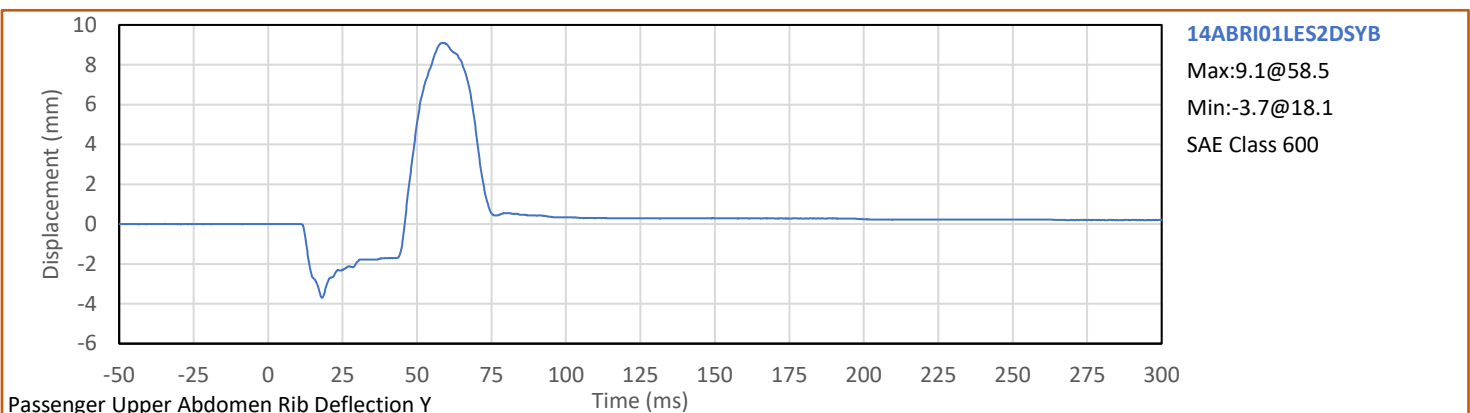
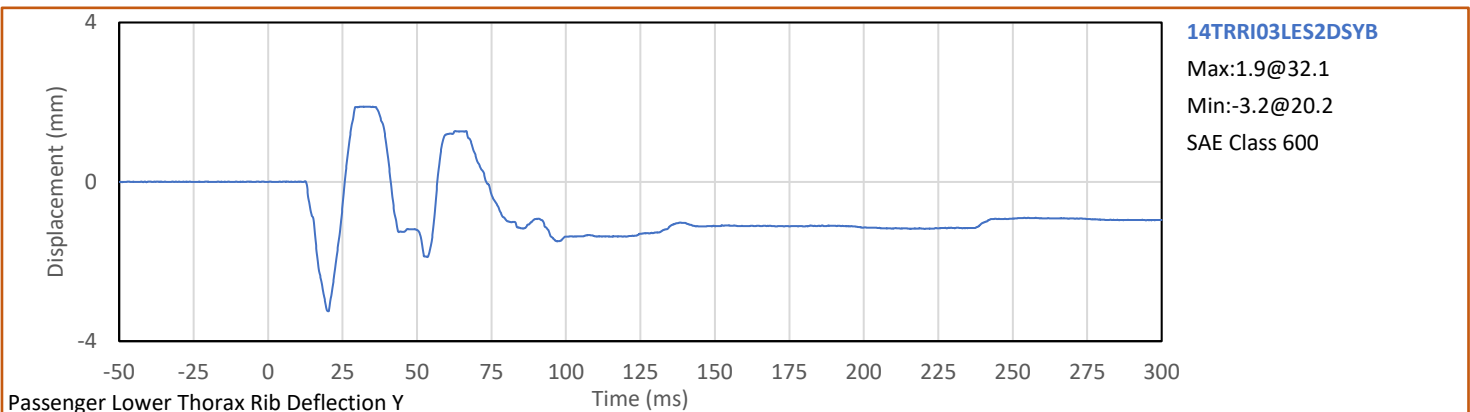
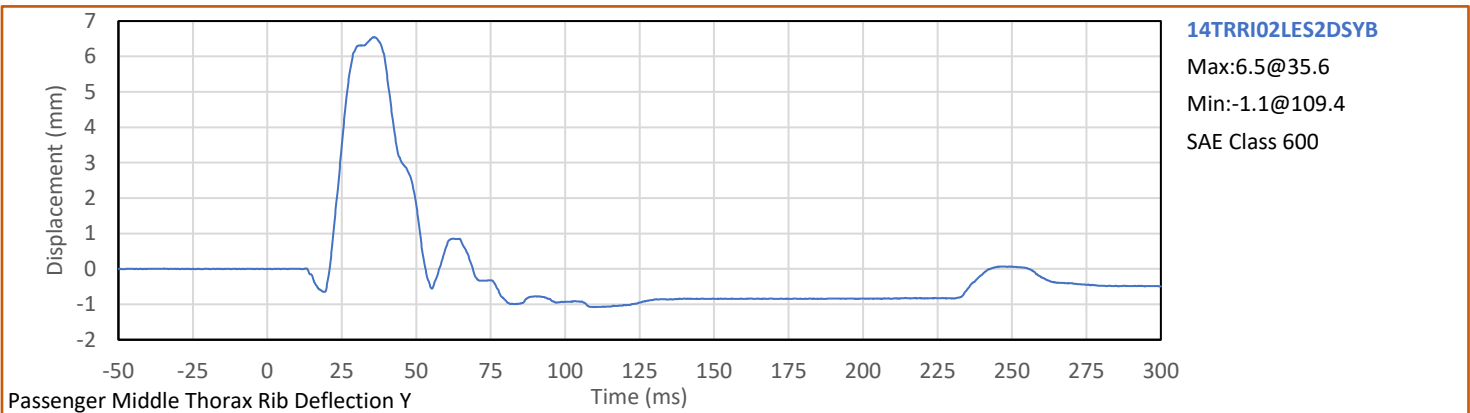
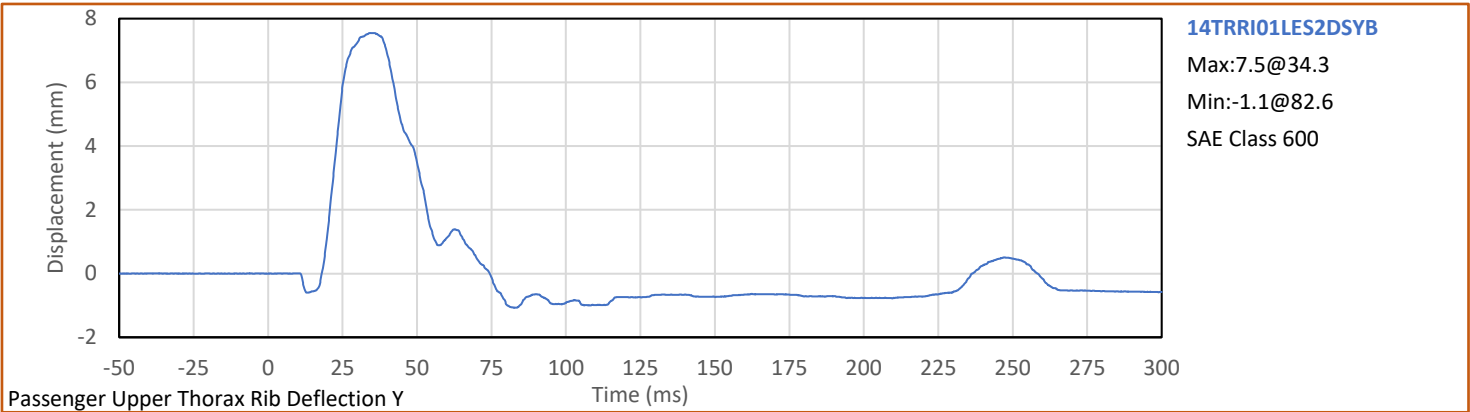
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Test Date: 12/10/2025





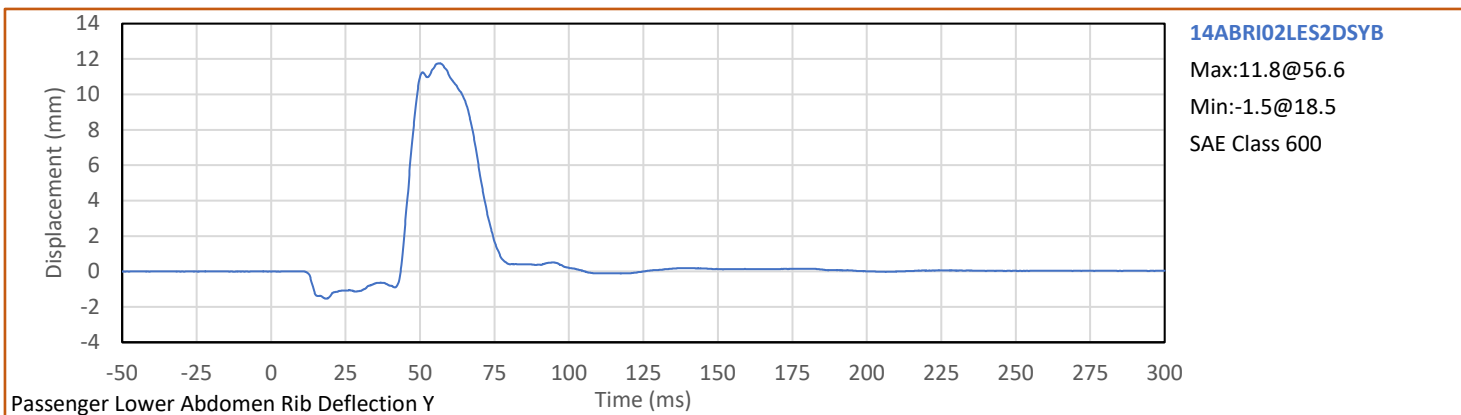






Test Vehicle: 2026 Subaru Crosstrek 5-Door MPV
Test Program: NCAP MDB Side Impact Test

NHTSA No.: O20265501
Test Date: 12/10/2025



APPENDIX C
ATD CONFIGURATION AND PERFORMANCE VERIFICATION DATA

APPENDIX C

**Pre-Test ATD Qualification and Performance Verification
ES-2re 50th Male Side Impact ATD, Left Side Configuration
S/N: F035**

ATD Serial No.: F035

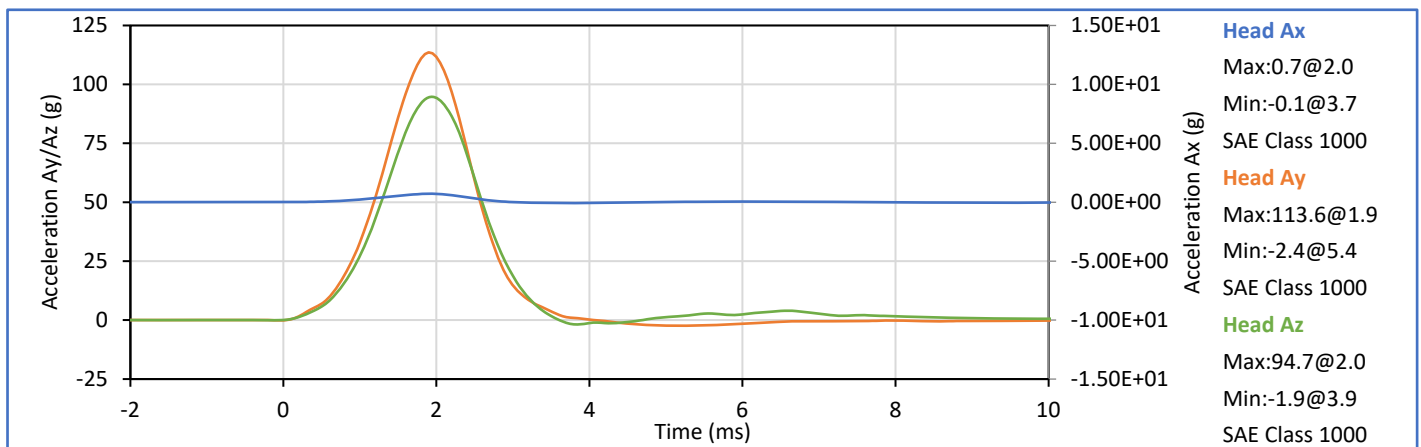
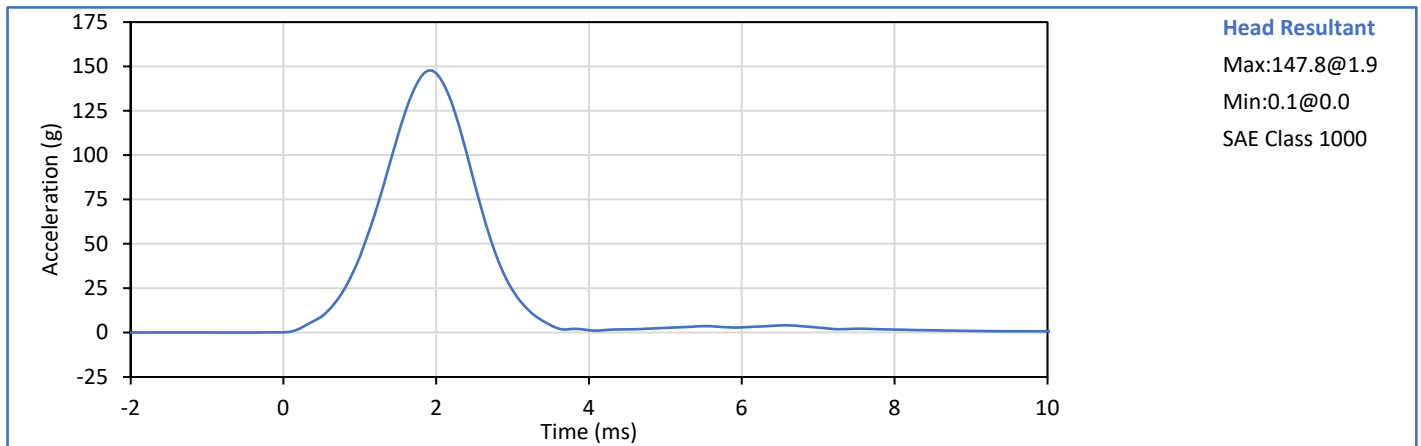
Test Date: 2025-12-09

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
1 - Sitting Height	mm	900	918	908	Pass
2 - Seat to Shoulder Joint	mm	558	572	570	Pass
3 - Seat to Lower Face of Thoracic Spine Box	mm	346	356	351	Pass
4 - Seat to Hip Joint (bolt center)	mm	97	103	99	Pass
5 - Sole to Seat, Sitting	mm	433	451	447	Pass
6 - Head Width	mm	152	158	154	Pass
7 - Shoulder/Arm Width	mm	461	479	472	Pass
8 - Thorax Width	mm	322	332	331	Pass
9 - Abdomen Width	mm	273	287	280	Pass
10 - Pelvis Lap Width	mm	359	373	365	Pass
11 - Head Depth	mm	196	206	203	Pass
12 - Thorax Depth	mm	262	272	267	Pass
13 - Abdomen Depth	mm	194	204	200	Pass
14 - Pelvis Depth	mm	235	245	240	Pass
15 - Back of Buttocks to Hip Joint (bolt Center)	mm	150	160	157	Pass
16 - Back of Buttocks to Front Knee	mm	597	615	606	Pass
				Overall Test Results	Pass

Technician: A. Ponce

Approved By: J. Hernandez

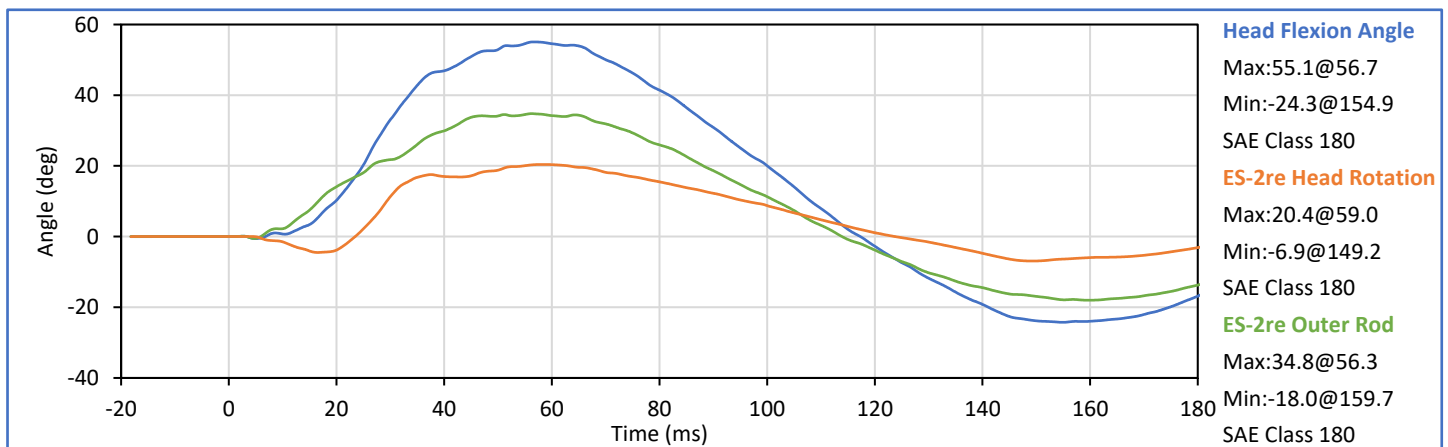
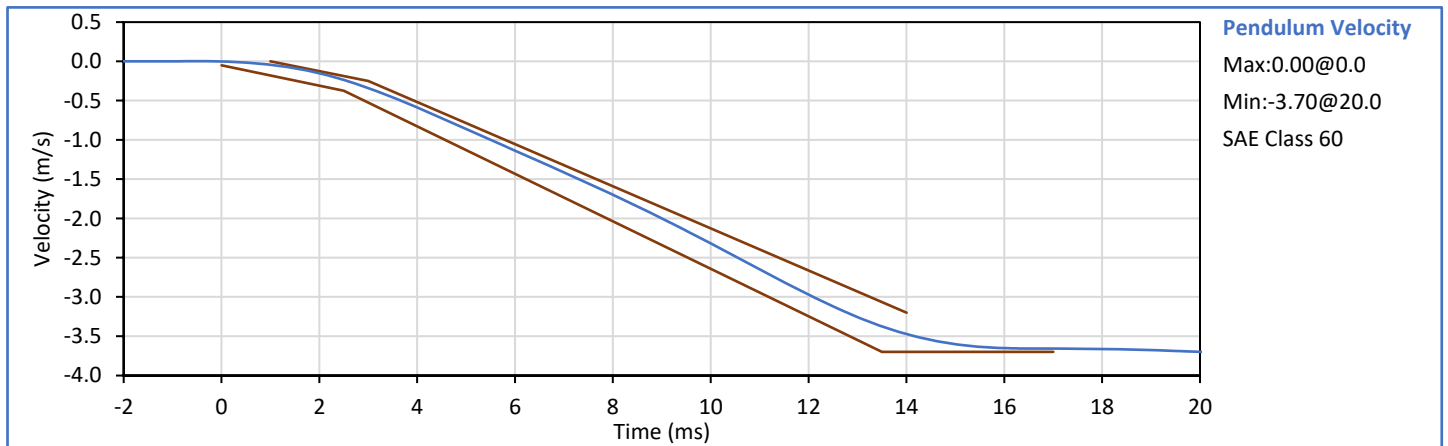
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.4	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Peak Resultant Acceleration	g	125.0	155.0	147.8	Pass
Peak Head Ax	g	-15.0	15.0	0.7	Pass
Oscillations After Main Pulse	%	0.0	15.0	2.7	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician: A. Ponce

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	30	Pass
Pendulum Velocity	m/s	3.30	3.50	3.42	Pass
Peak Headform Flexion	deg	49.0	59.0	55.1	Pass
Time of Peak Headform Flexion	ms	54.0	66.0	56.7	Pass
Flexion Decay (Peak to zero)	ms	53.0	88.0	60.7	Pass
Overall Test Results					Pass



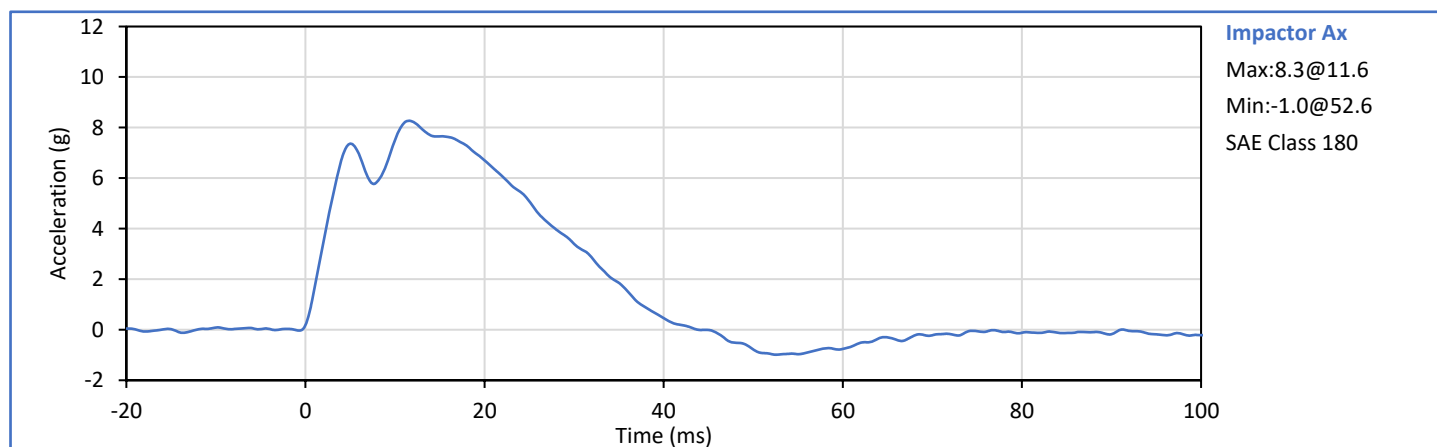
Technician: A. Ponce

Approved By: J. Hernandez

ATD Serial No.: F035

Test Date: 2025-12-09

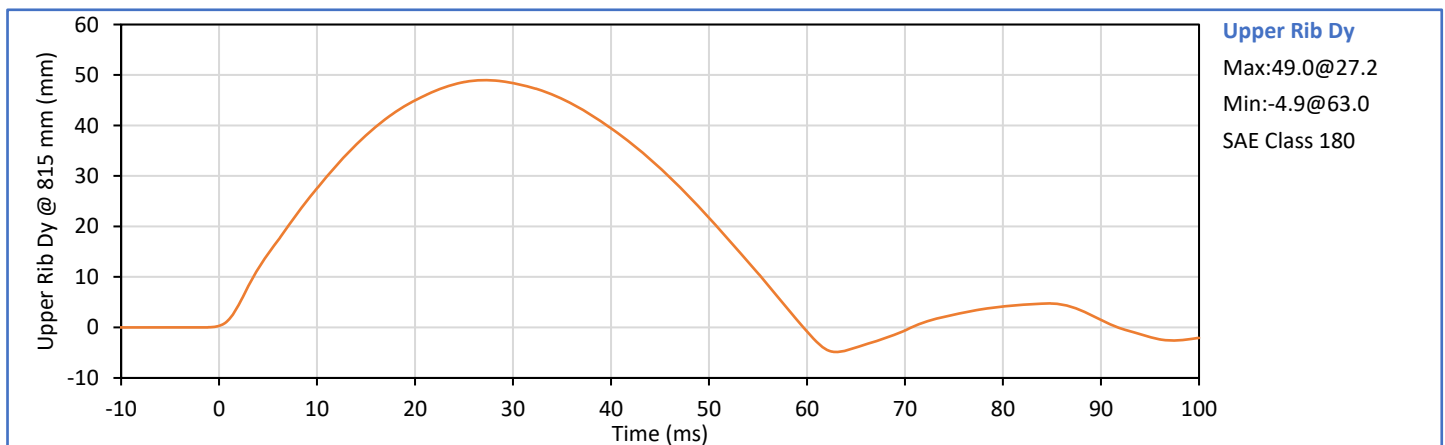
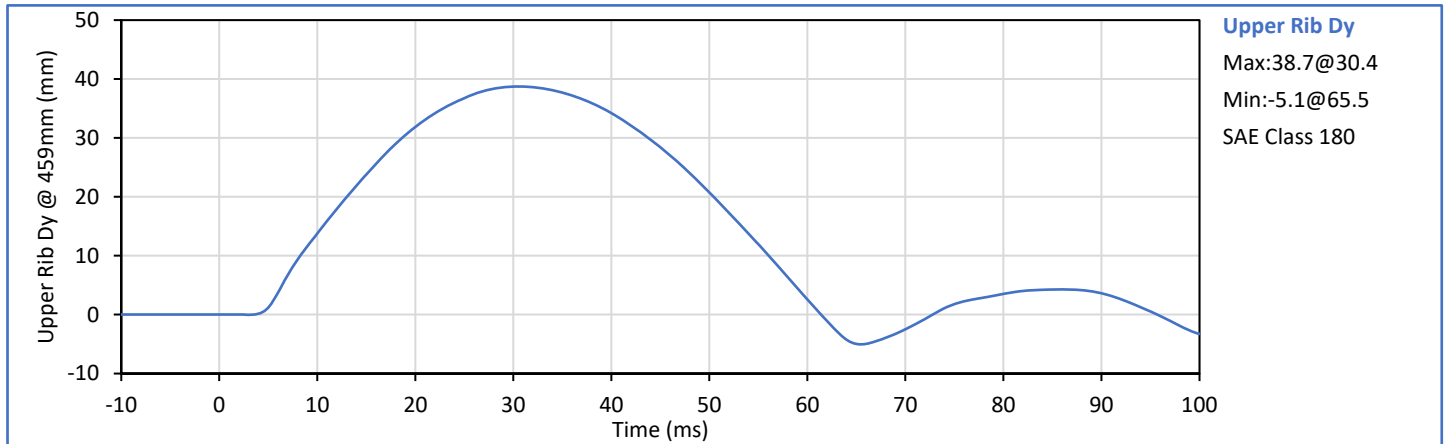
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.1	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	4.20	4.40	4.31	Pass
Peak Impactor Ax	g	7.5	10.5	8.3	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

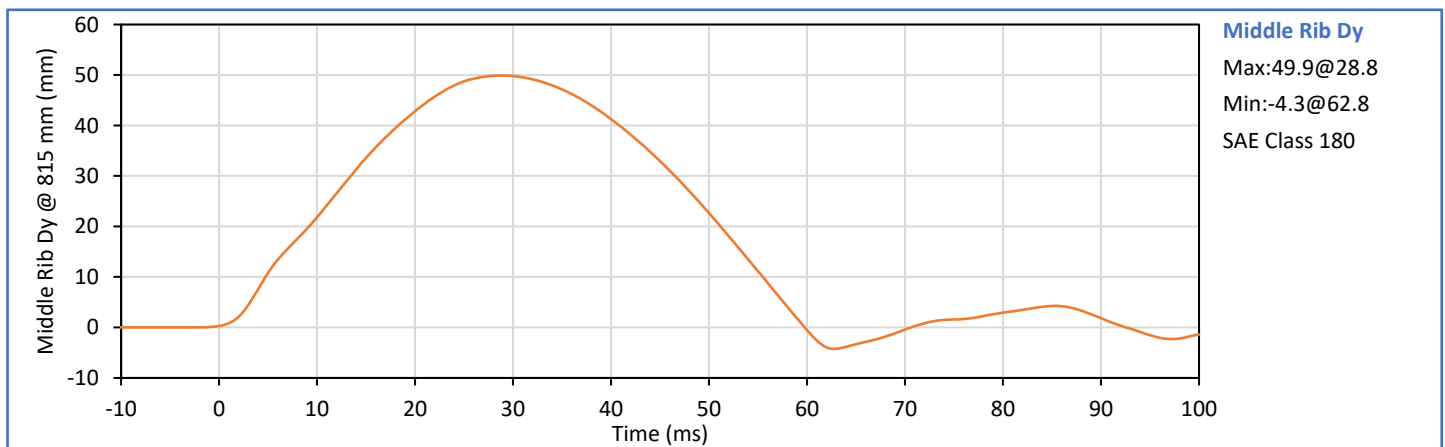
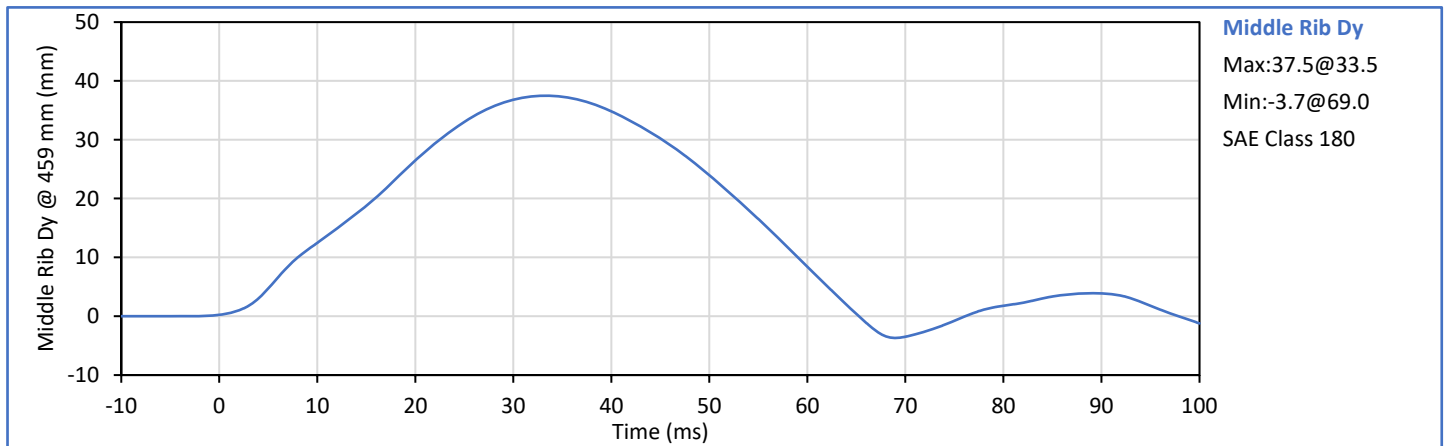
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Upper Rib Dy @ 459mm	mm	36.0	40.0	38.7	Pass
Upper Rib Dy @ 815mm	mm	46.0	51.0	49.0	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

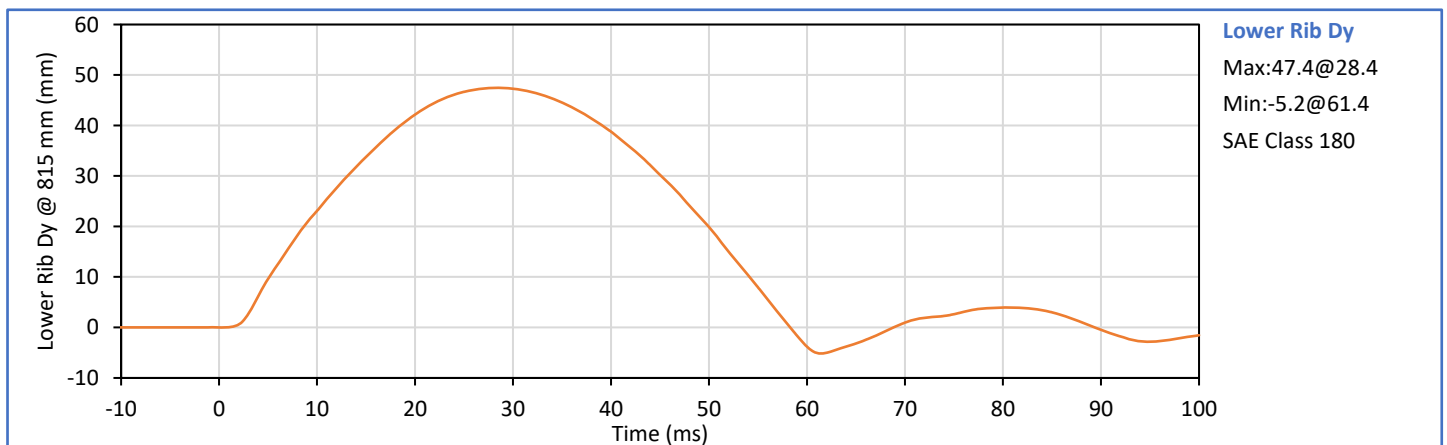
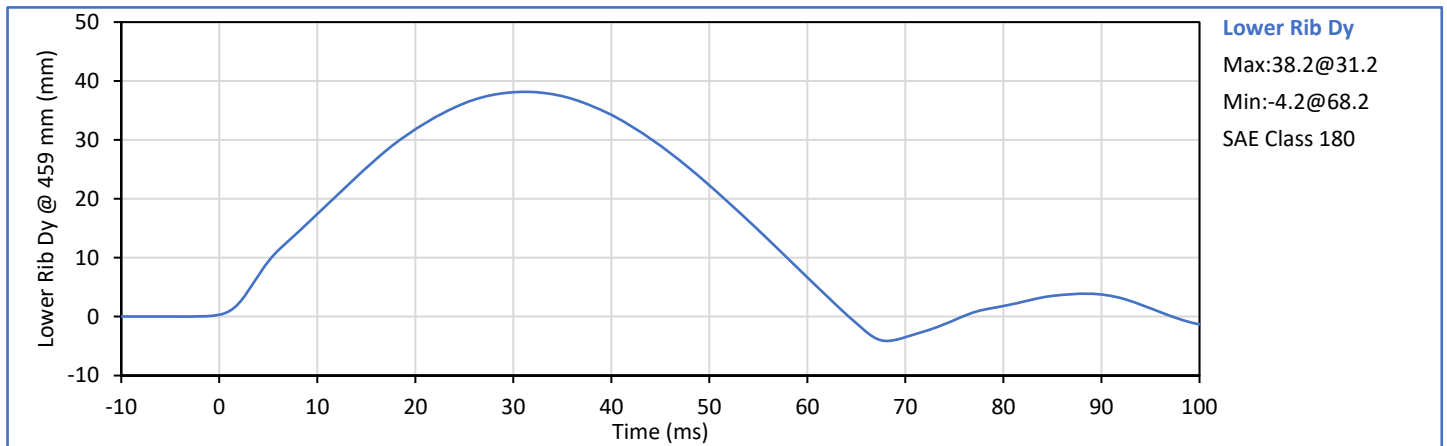
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Middle Rib Dy @ 459mm	mm	36.0	40.0	37.5	Pass
Middle Rib Dy @ 815mm	mm	46.0	51.0	49.9	Pass
Overall Test Results				Pass	Pass



Technician: A. Ponce

Approved By: J. Hernandez

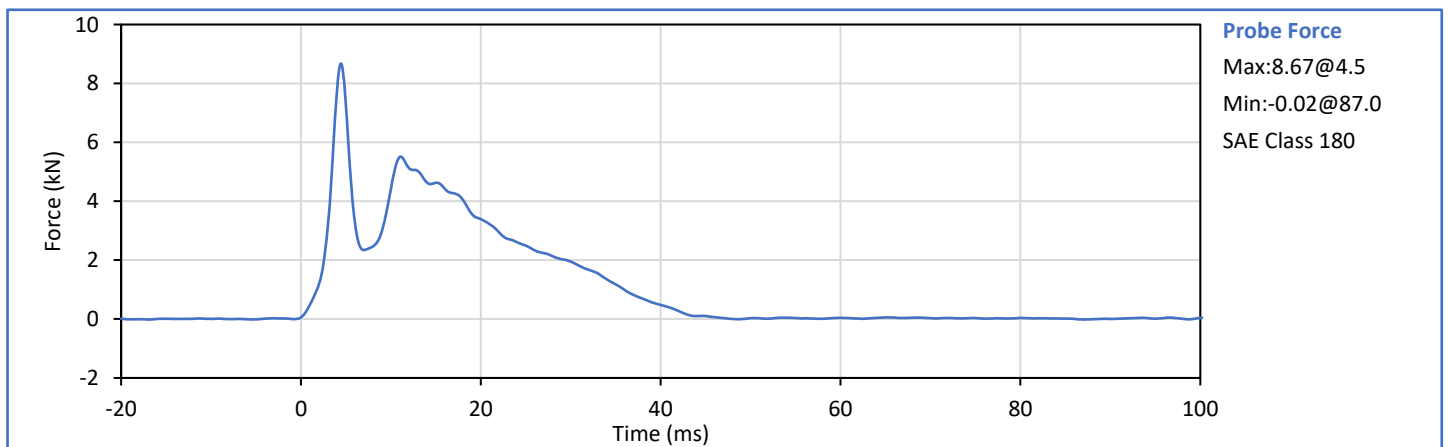
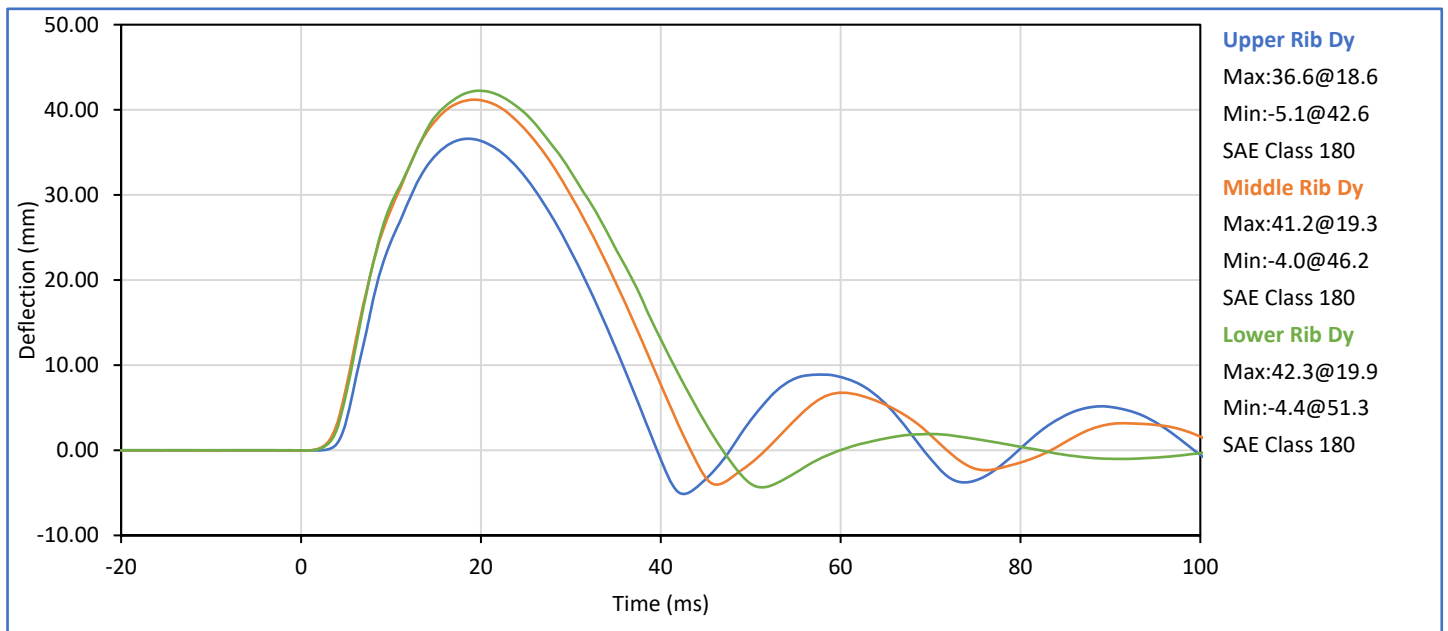
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Lower Rib Dy @ 459mm	mm	36.0	40.0	38.2	Pass
Lower Rib Dy @ 815mm	mm	46.0	51.0	47.4	Pass
Overall Test Results				Pass	



Technician: A. Ponce

Approved By: J. Hernandez

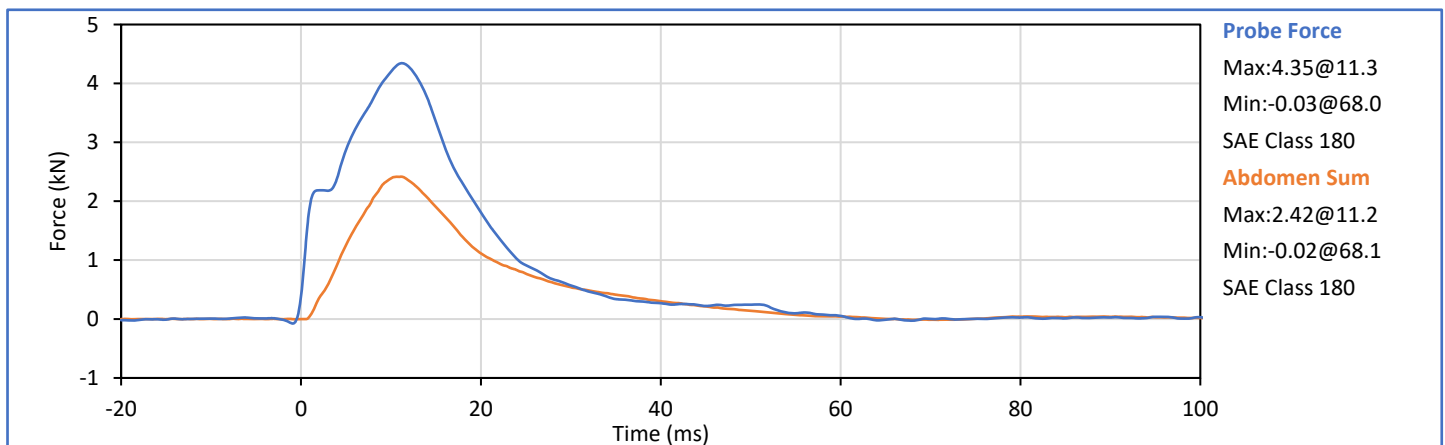
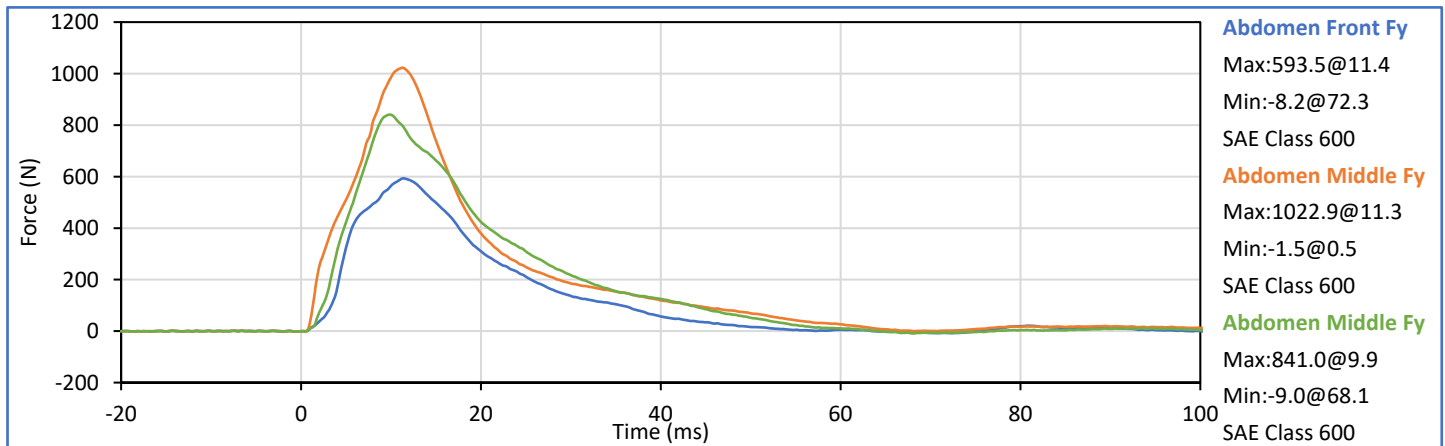
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	5.40	5.60	5.51	Pass
Peak Upper Rib Dy	mm	34.0	41.0	36.6	Pass
Peak Middle Rib Dy	mm	37.0	45.0	41.2	Pass
Peak Lower Rib Dy	mm	37.0	44.0	42.3	Pass
Peak Impactor Force After 6 ms	kN	5.10	6.20	5.51	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

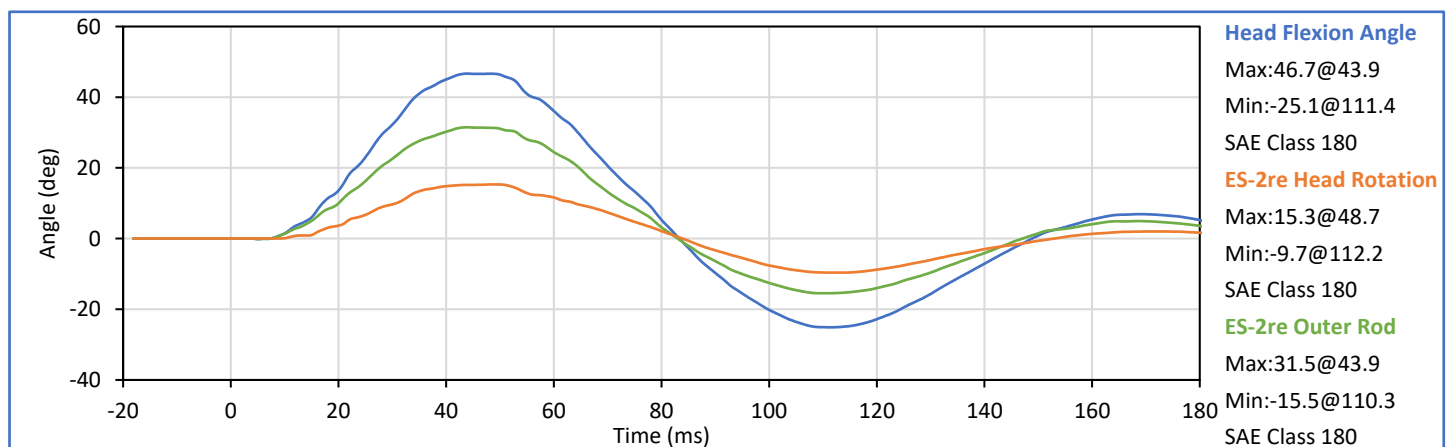
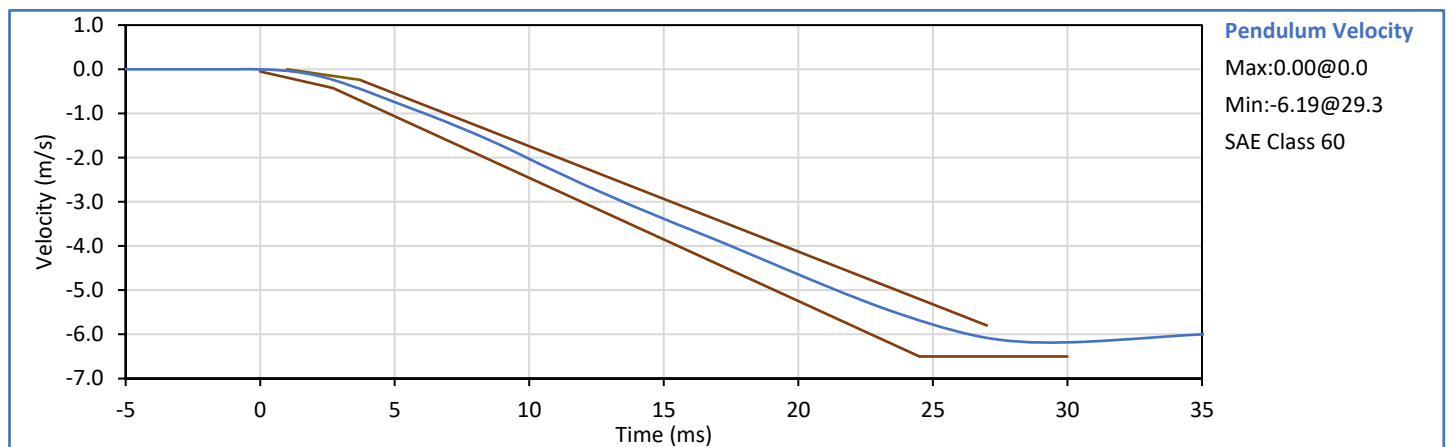
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	3.90	4.10	4.01	Pass
Peak Impactor Force	kN	4.00	4.80	4.35	Pass
Time of Peak Impactor Force	ms	10.6	13.0	11.3	Pass
Sum of Abdomen Forces	kN	2.20	2.70	2.42	Pass
Time of Peak Sum Abdomen Force	ms	10.0	12.3	11.2	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

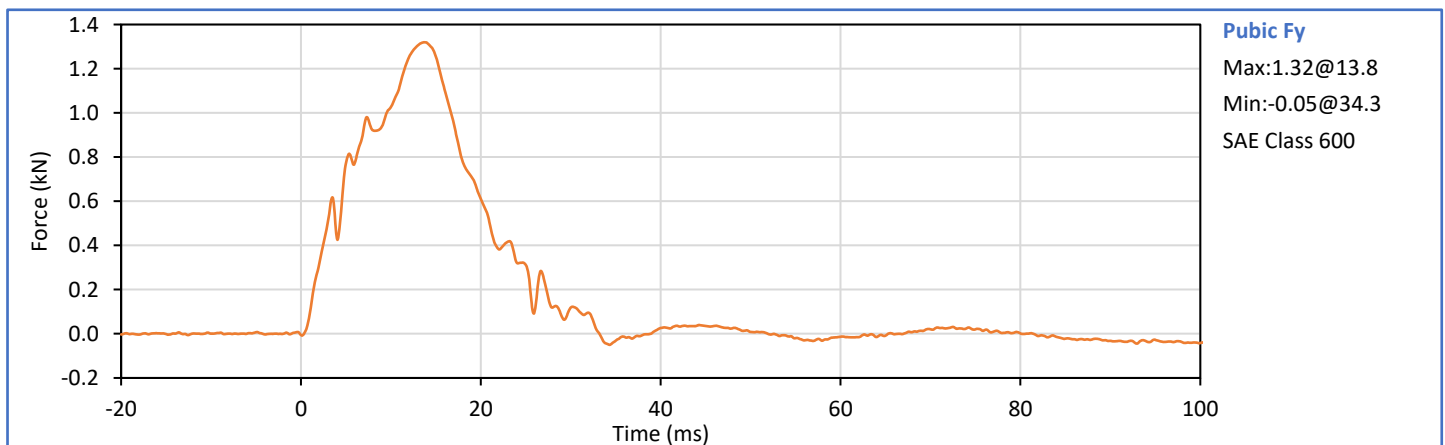
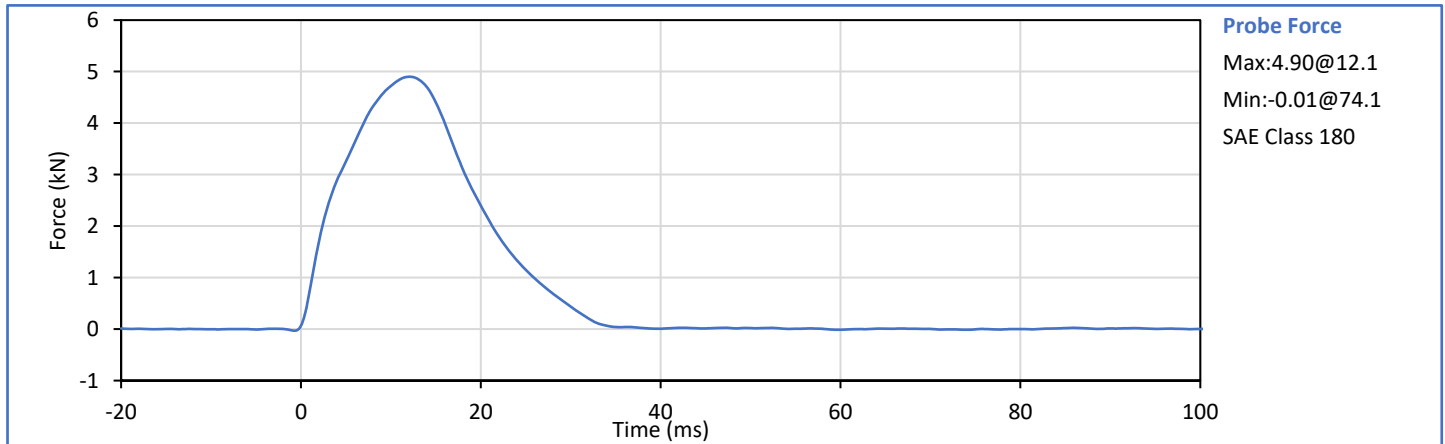
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Pendulum Velocity	m/s	5.95	6.15	6.06	Pass
Peak Headform Flexion	deg	45.0	55.0	46.7	Pass
Time of Peak Headform Flexion	ms	39.0	53.0	43.9	Pass
Flexion Decay (Peak to zero)	ms	37.0	57.0	39.4	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	32	Pass
Impactor Velocity	m/s	4.20	4.40	4.31	Pass
Peak Impactor Force	kN	4.70	5.40	4.90	Pass
Time of Peak Impactor Force	ms	11.8	16.1	12.1	Pass
Pubic Symphysis Fy	kN	1.23	1.59	1.32	Pass
Time of Peak Pubic Symphysis Fy	ms	12.2	17.0	13.8	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

APPENDIX C

Pre-Test ATD Qualification and Performance Verification

SID-IIs Small Side Impact ATD, Left Side Configuration

S/N: 308

ATD Serial No.: 308

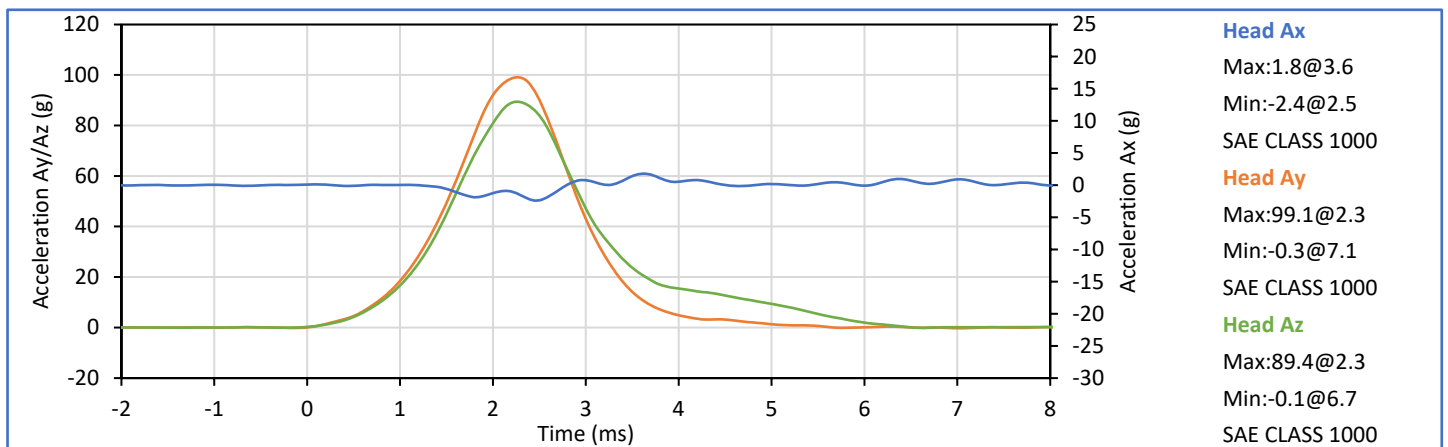
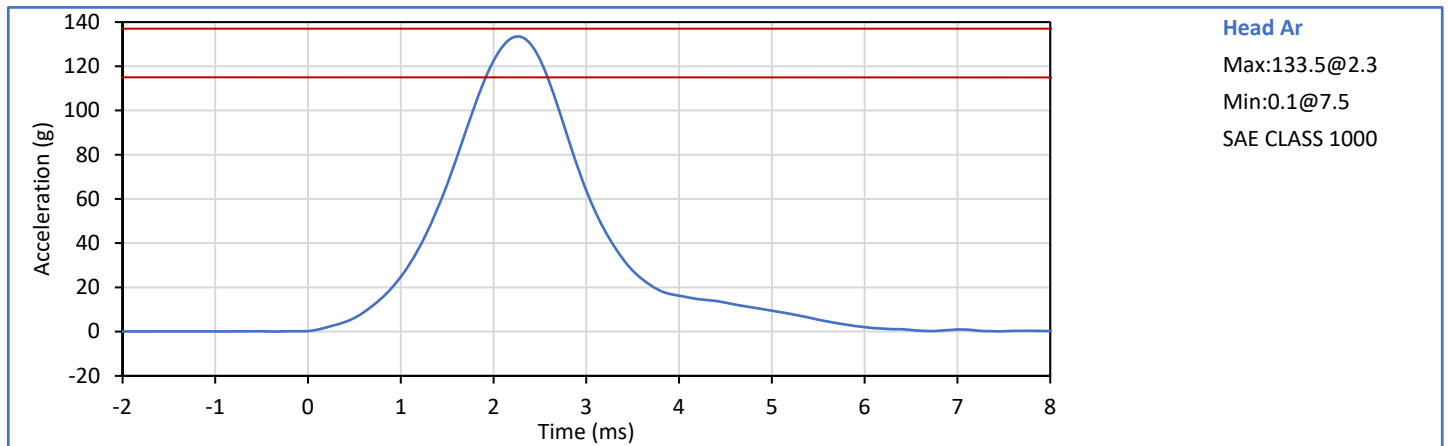
Test Date: 2025-10-20

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	31	Pass
A - Sitting Height	mm	772	788	778	Pass
B - Shoulder Pivot Height	mm	437	453	450	Pass
C - Hpoint Height	mm	79	89	87	Pass
D - H Point From Seatback	mm	141	151	145	Pass
E - Shoulder Pivot From Backline	mm	97	107	104	Pass
F - Thigh Clearance	mm	119	135	125	Pass
G - Head Breadth	mm	140	148	144	Pass
H - Head Back From Backline	mm	40	46	43	Pass
I - Head Depth	mm	178	188	186	Pass
J - Head Circumference	mm	541	551	546	Pass
K - Buttock To Knee Length	mm	514	540	526	Pass
L - Popliteal Height	mm	343	369	358	Pass
K - Knee Pivot To Floor Height	mm	392	409	402	Pass
N - Buttock Popliteal Length	mm	416	442	425	Pass
O - Chest Depth W/O Jacket	mm	195	211	207	Pass
P - Foot Length	mm	216	232	221	Pass
Q - Hip Breadth (W/Pelvic Plugs)	mm	313	323	317	Pass
R - Arm Length	mm	249	259	254	Pass
S - Knee Joint To Seatback	mm	477	493	479	Pass
V - Shoulder Width	mm	341	357	353	Pass
W - Foot Width	mm	78	94	83	Pass
Y - Chest Circumference W/Jacket	mm	851	881	863	Pass
Z - Waist Circumference	mm	761	791	764	Pass
				Overall Test Results	Pass

Technician: A. Ponce

Approved By: J. Hernandez

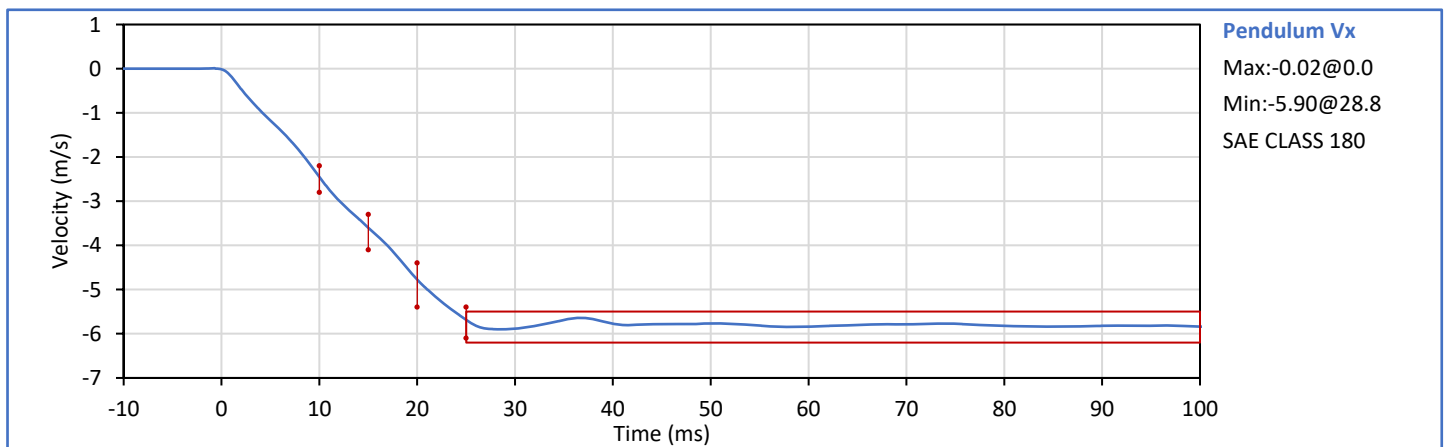
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.1	Pass
Laboratory Relative Humidity	%	10	70	30	Pass
Peak Resultant Acceleration	g	115.0	137.0	133.5	Pass
Peak Head Ax	g	-15.0	15.0	-2.4	Pass
Oscillations After Main Pulse	%	0.0	15.0	0.7	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician: A. Ponce

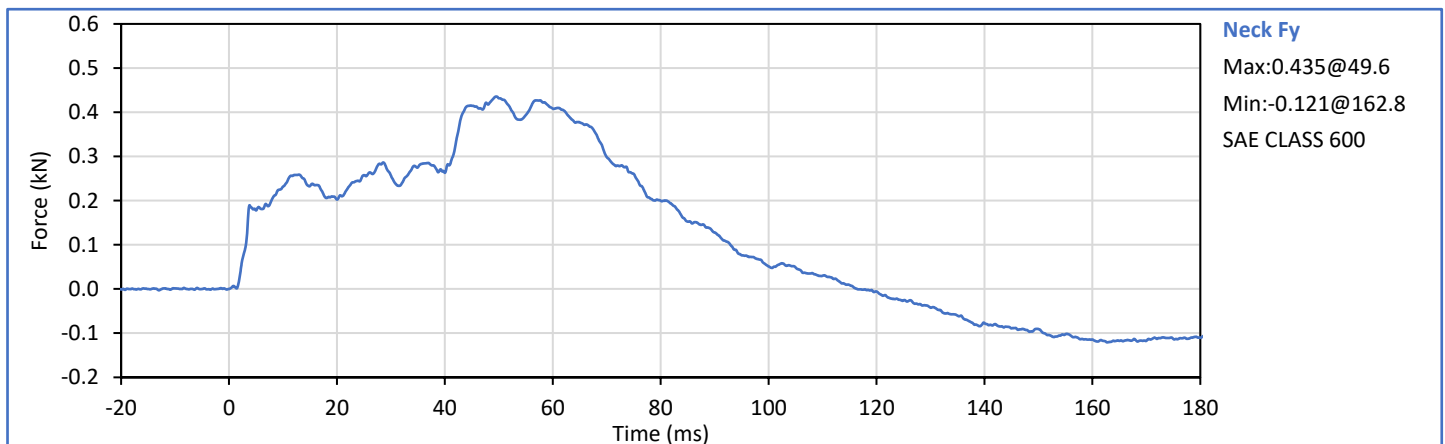
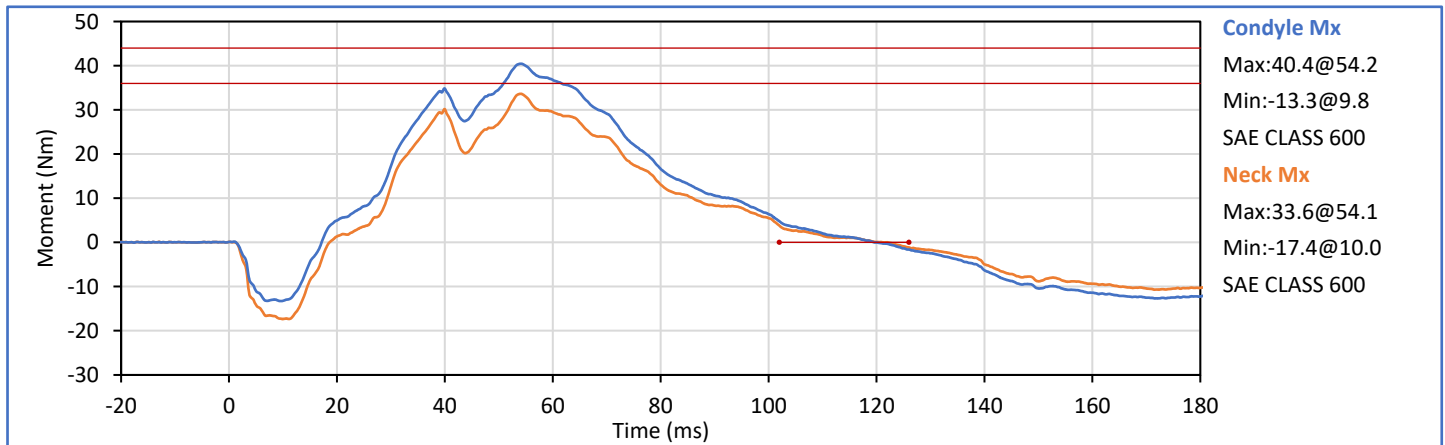
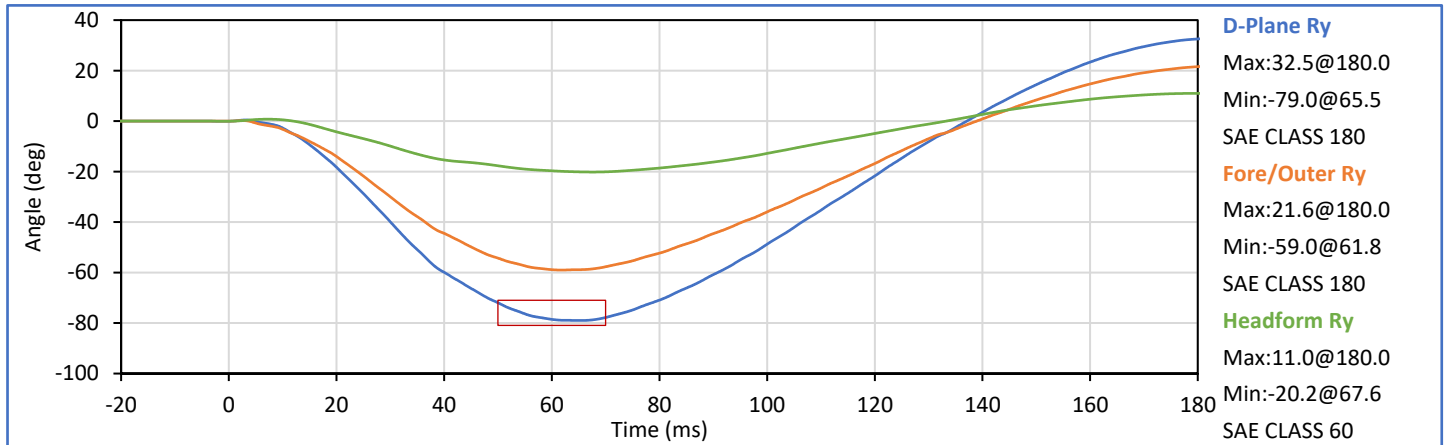
Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	30	Pass
Pendulum Velocity	m/s	5.51	5.63	5.61	Pass
Pendulum Decel at 10 ms	m/s	-2.80	-2.20	-2.45	Pass
Pendulum Decel at 15 ms	m/s	-4.10	-3.30	-3.60	Pass
Pendulum Decel at 20 ms	m/s	-5.40	-4.40	-4.78	Pass
Pendulum Decel at 25 ms	m/s	-6.10	-5.40	-5.69	Pass
Pendulum Decel from 25-100 ms	m/s	-6.20	-5.50	-5.9/-5.64	Pass
Peak "D" Plane Rotation	deg	-81.0	-71.0	-79.0	Pass
Time of Peak "D" Plane Rotation	ms	50.0	70.0	65.5	Pass
Peak Occ. Condyle Moment	Nm	36.0	44.0	40.4	Pass
Time of Moment Decay to 0 Nm	ms	102.0	126.0	119.6	Pass
				Overall Test Results	Pass

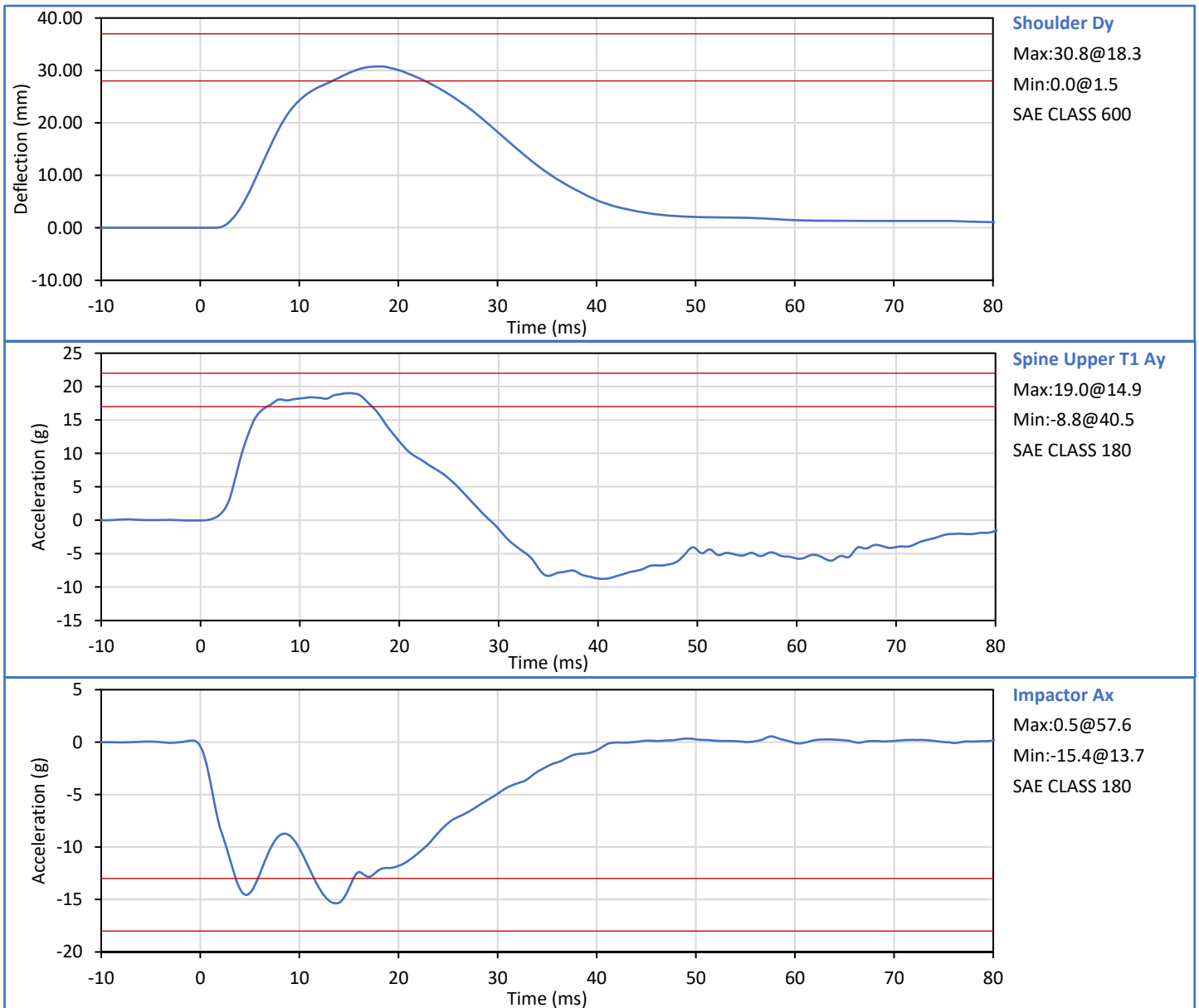


Technician: A. Ponce

Approved By: J. Hernandez



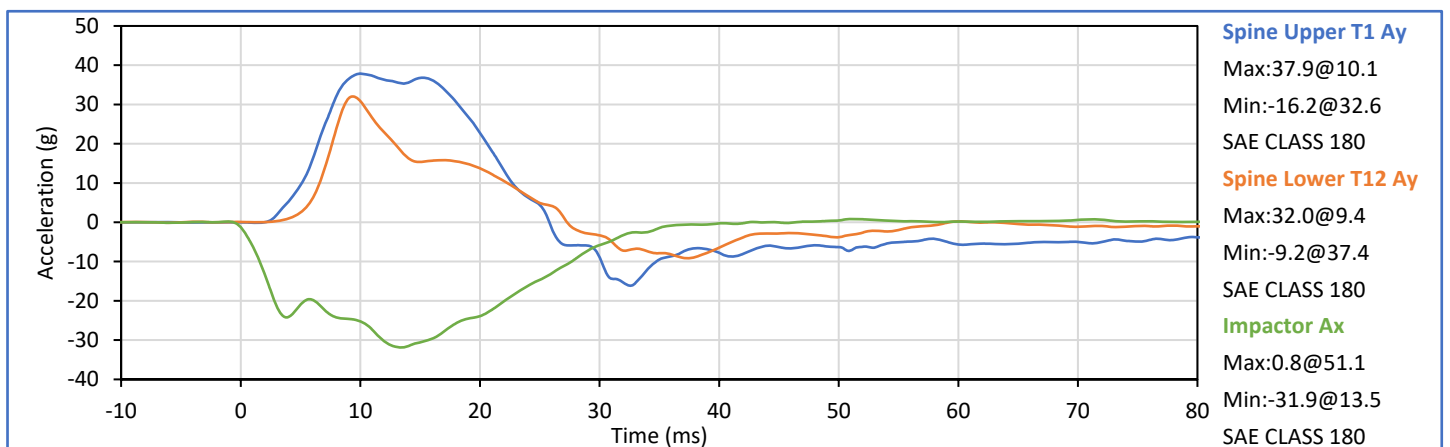
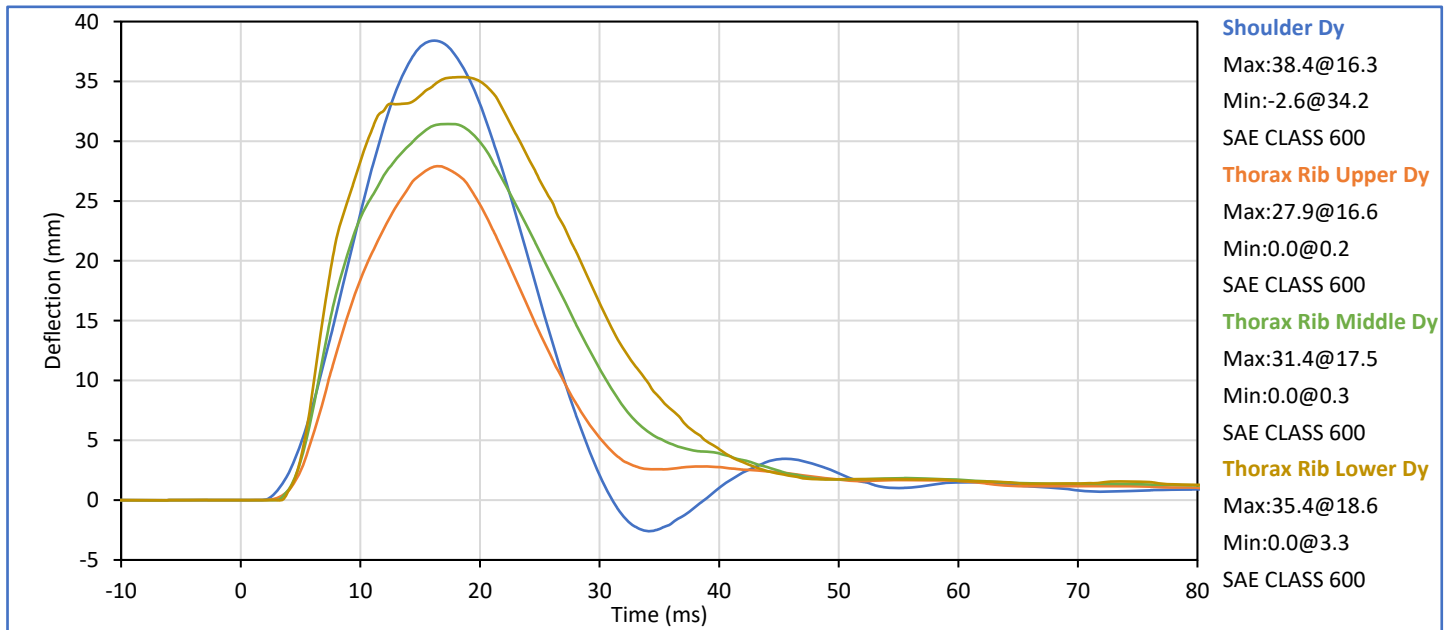
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	29	Pass
Impactor Velocity	m/s	4.20	4.40	4.31	Pass
Peak Shoulder Dy	mm	28.0	37.0	30.8	Pass
Peak Upper Spine (T1) Ay	g	17.0	22.0	19.0	Pass
Peak Impactor Ax	g	-18.0	-13.0	-15.4	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

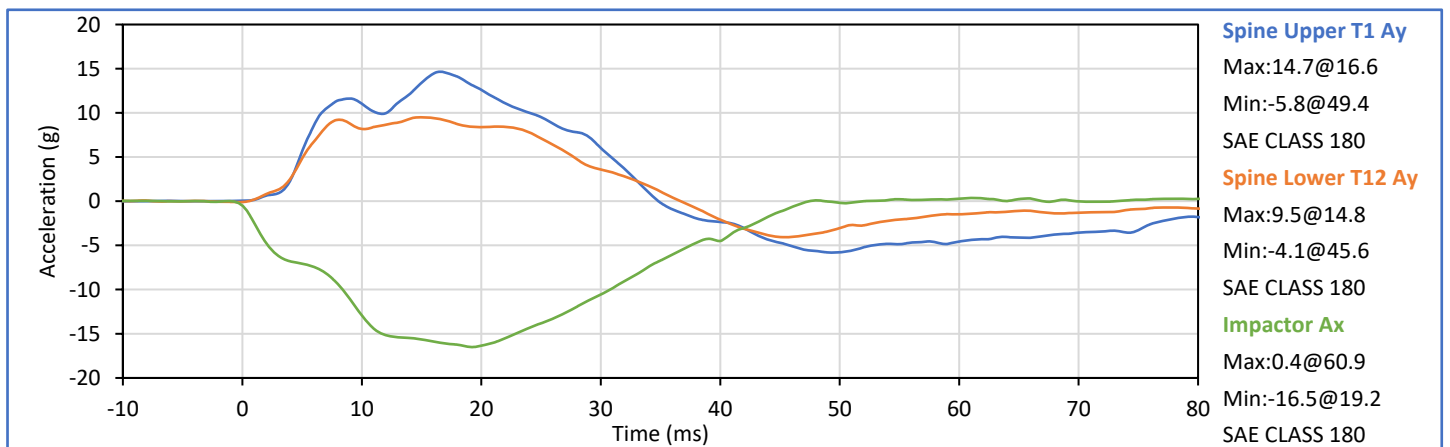
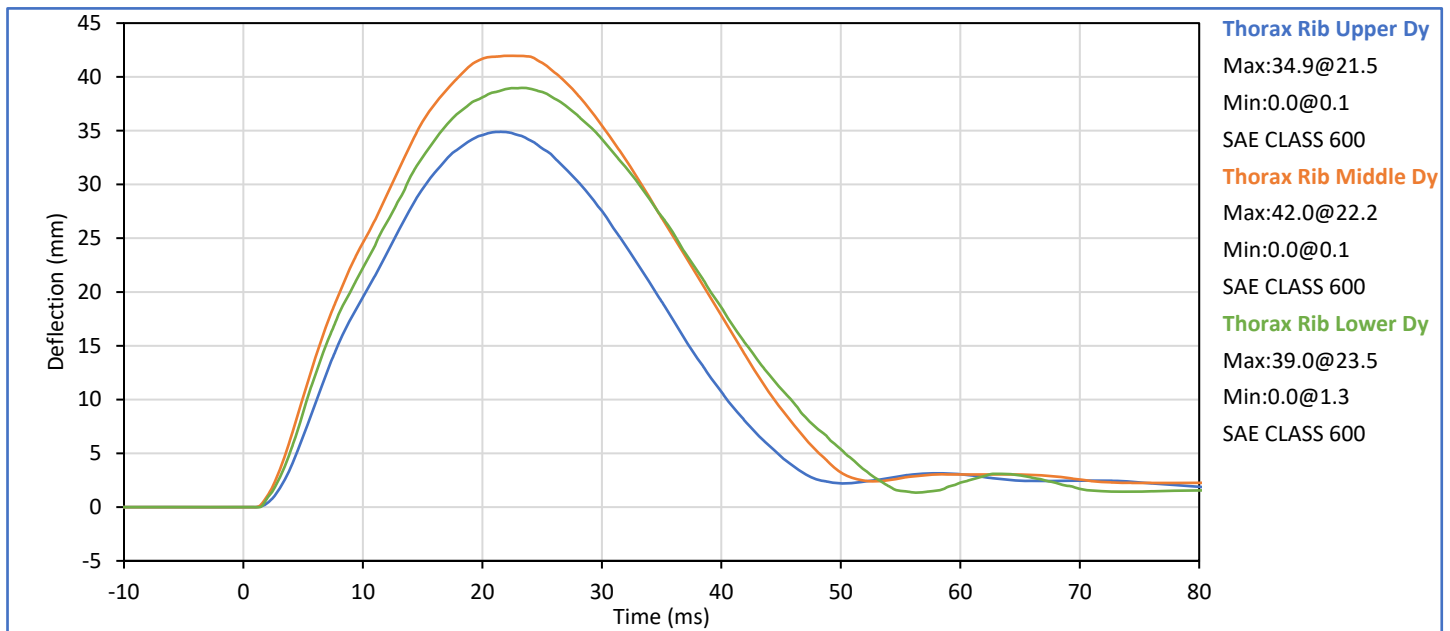
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.6	Pass
Laboratory Relative Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	6.60	6.80	6.72	Pass
Peak Shoulder Dy	mm	31.0	40.0	38.4	Pass
Peak Upper Rib Dy	mm	25.0	32.0	27.9	Pass
Peak Middle Rib Dy	mm	30.0	36.0	31.4	Pass
Peak Lower Rib Dy	mm	32.0	38.0	35.4	Pass
Peak Upper Spine (T1) Ay	g	34.0	43.0	37.9	Pass
Peak Lower Spine (T12) Ay	g	29.0	37.0	32.0	Pass
Peak Impactor Ax	g	-36.0	-30.0	-31.9	Pass
Overall Test Results				Pass	Pass



Technician: A. Ponce

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	30	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Thorax Rib Upper Dy	mm	32.0	40.0	34.9	Pass
Peak Thorax Rib Middle Dy	mm	39.0	45.0	42.0	Pass
Peak Thorax Rib Lower Dy	mm	35.0	43.0	39.0	Pass
Peak Spine Upper T1 Ay	g	13.0	17.0	14.7	Pass
Peak Spine Lower T12 Ay	g	7.0	11.0	9.5	Pass
Peak Impactor Ax	g	-18.0	-14.0	-16.5	Pass
Overall Test Results				Pass	Pass



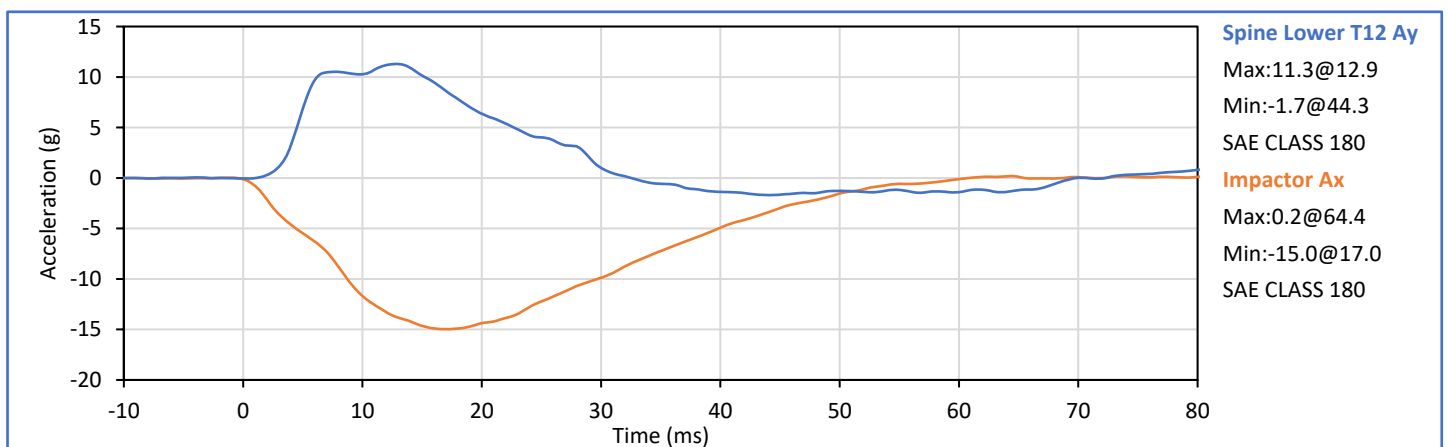
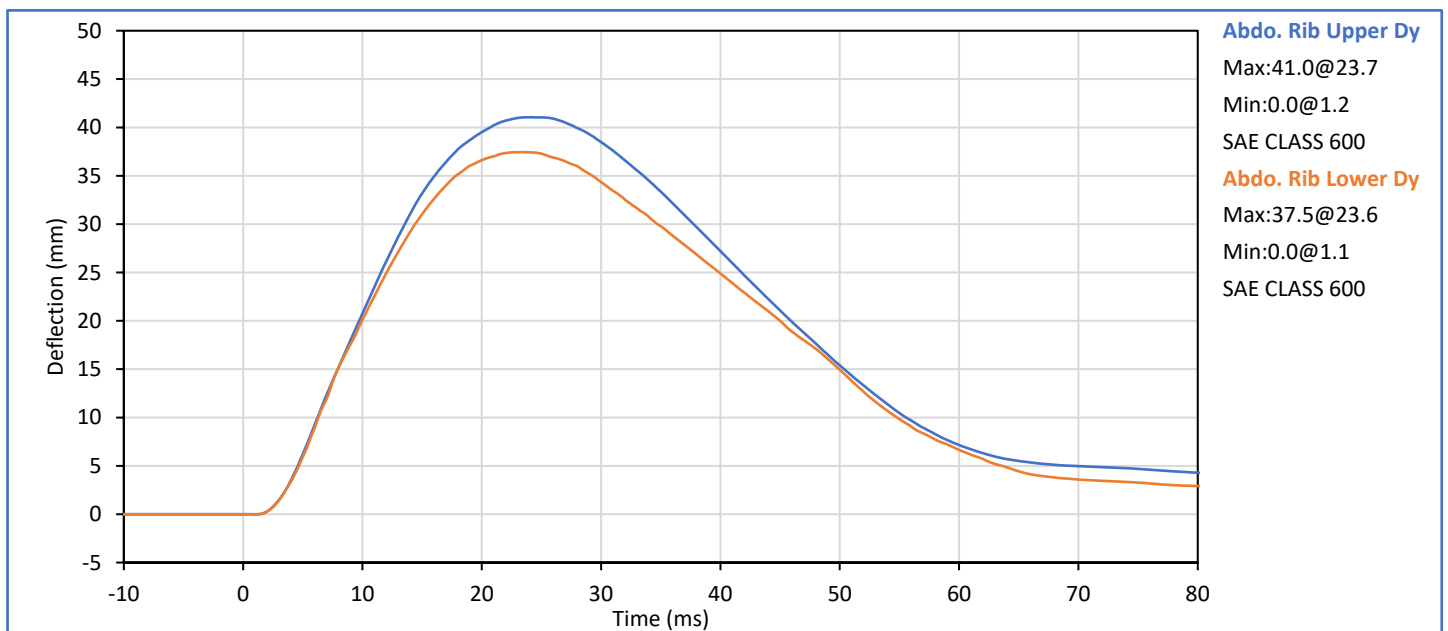
Technician: A. Ponce

Approved By: J. Hernandez

ATD Serial No.: 308

Test Date: 2025-10-21

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	31	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Upper Abdomen Rib Dy	mm	36.0	47.0	41.0	Pass
Peak Lower Abdomen Rib Dy	mm	33.0	44.0	37.5	Pass
Peak Lower Spine T12 Ay	mm	9.0	14.0	11.3	Pass
Peak Impactor Ax	g	-16.0	-12.0	-15.0	Pass
Overall Test Results					Pass



Technician: A. Ponce

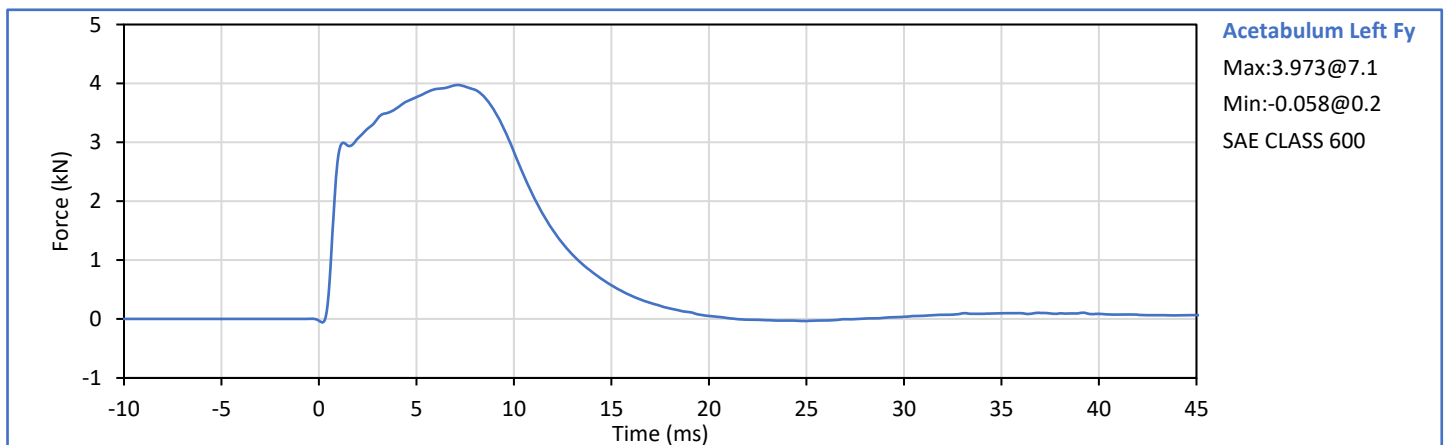
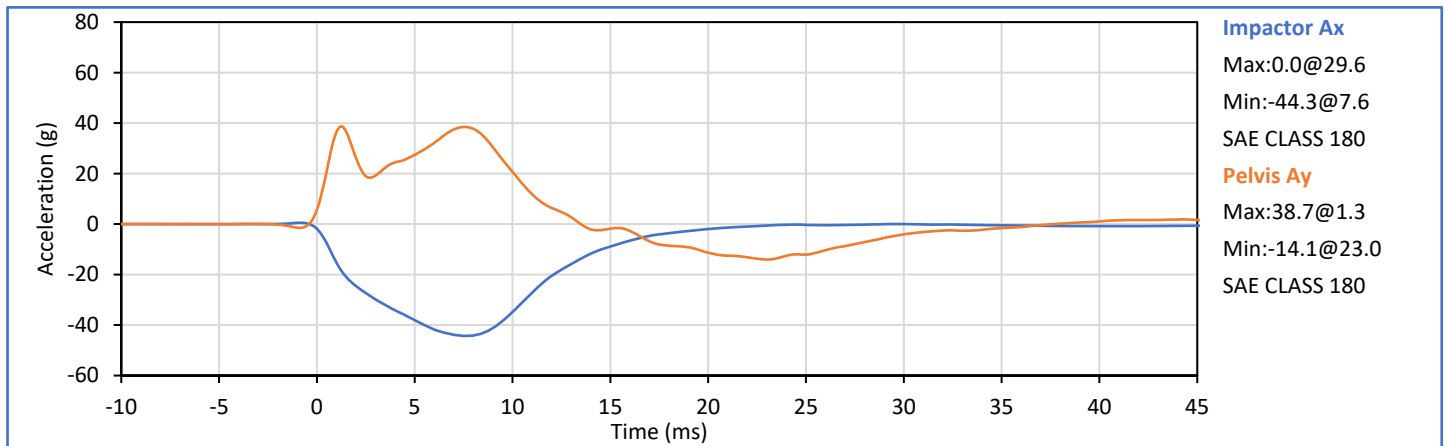
Approved By: J. Hernandez

ATD Serial No.: 308

Test Date: 2025-10-21

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	29	Pass
Impactor Velocity	m/s	6.60	6.80	6.71	Pass
Peak Acetabulum Fy	kN	3.60	4.30	3.97	Pass
Pelvis Ay after 6ms	g	34.0	42.0	38.5	Pass
Peak Impactor Ax	g	-47.0	-38.0	-44.3	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 17233



Technician: A. Ponce

Approved By: J. Hernandez

ATD Serial No.: 308

SID-IIs Small Side Impact ATD
Pelvis Acetabulum Impact

Test Date: 2025-10-21

Pelvis Plug S/N: 17233



SID-IIs Pelvis Plug Certification Test

Plug S/N 17233

Test Number 24132

Report Number 24189

Test Date 8/25/2022 7:44:23 AM

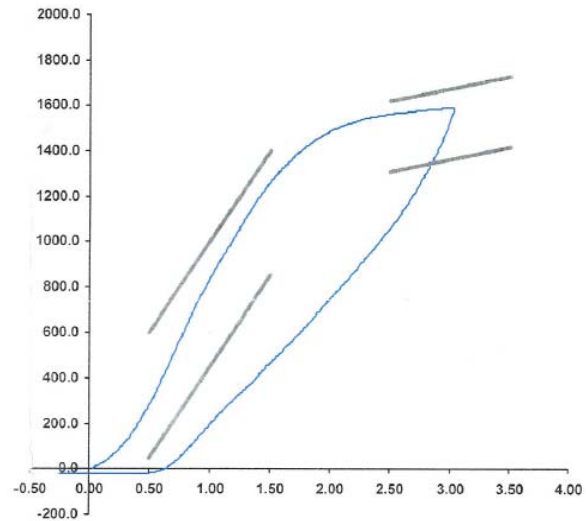
	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	290	50	600
Force @ 1.5 mm (N)	1,270	850	1,400
Force @ 2.5 mm (N)	1,562	1,306	1,618
Force @ 3.0 mm (N)	1,591	1,381	1,673

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:

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107 25-Aug-22
SACO Research

By: DC Date: 8/25/22

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

Sensor Push

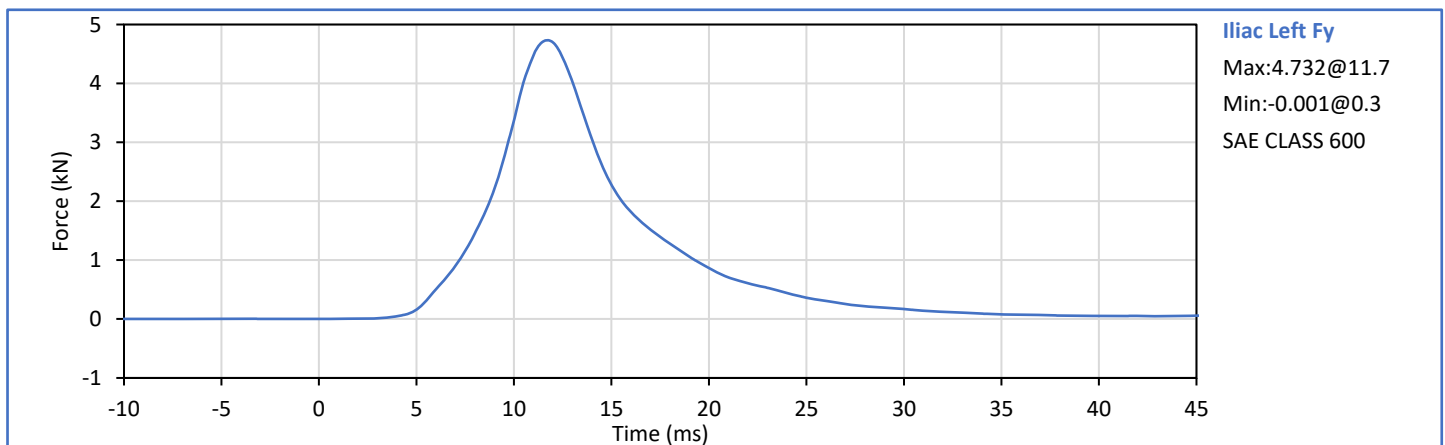
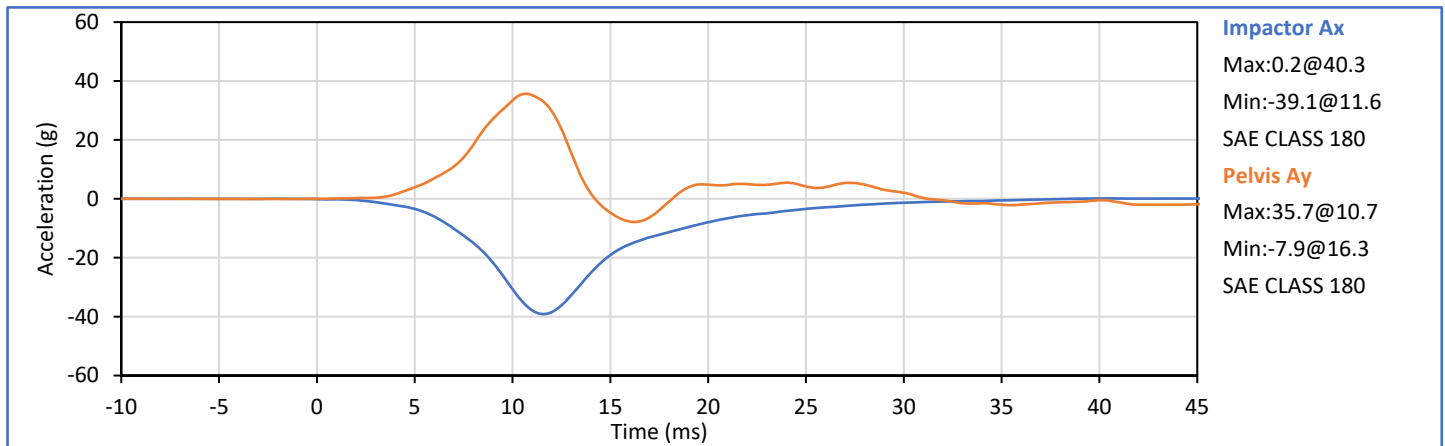
ATD Serial No.: 308

Test Date: 2025-10-22

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.1	Pass
Laboratory Relative Humidity	%	10	70	29	Pass
Impactor Velocity	m/s	4.20	4.40	4.31	Pass
Peak Iliac Fy	kN	4.10	5.10	4.73	Pass
Peak Pelvis Ay	g	28.0	39.0	34.7	Pass
Peak Impactor Ax	g	-45.0	-36.0	-39.1	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 17751 *

* Plug is not impacted and remains certified



Technician: A. Ponce

Approved By: J. Hernandez

APPENDIX C

**Post-Test ATD Qualification and Performance Verification
ES-2re 50th Male Side Impact ATD, Left Side Configuration
S/N: F035**

ATD Serial No.: F035

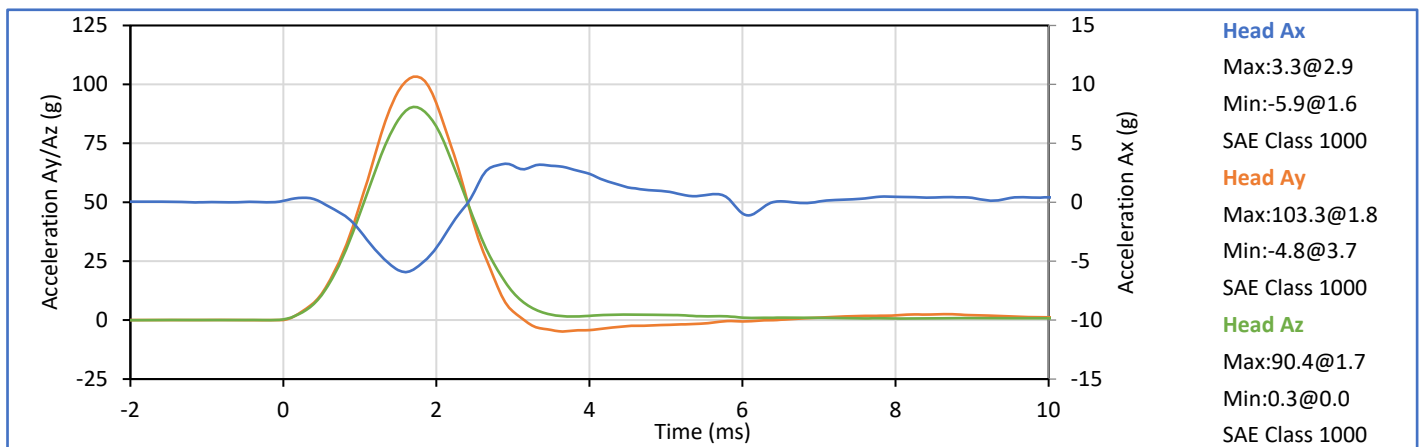
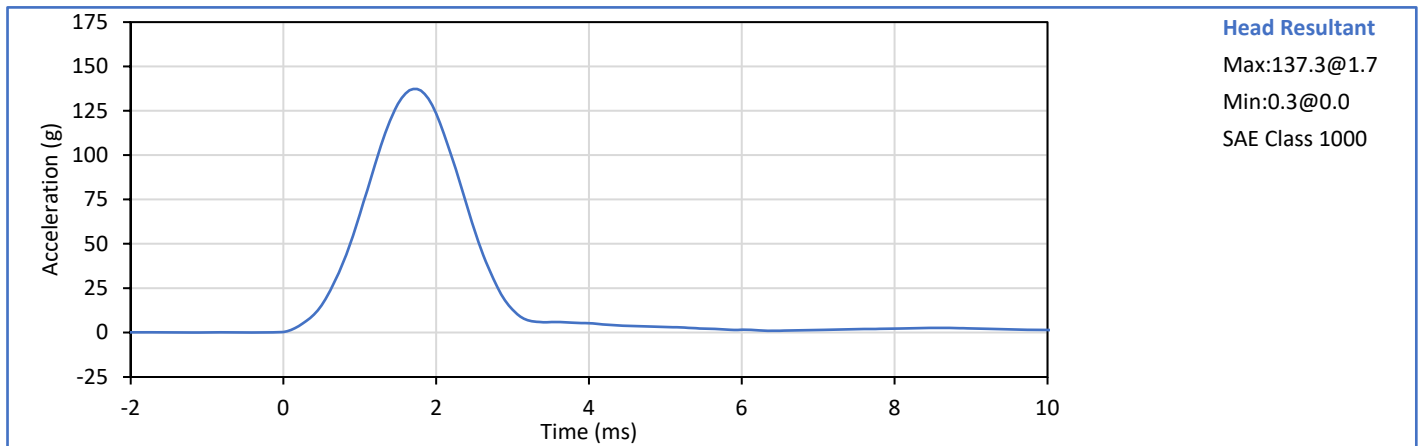
Test Date: 2025-12-14

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
1 - Sitting Height	mm	900	918	909	Pass
2 - Seat to Shoulder Joint	mm	558	572	561	Pass
3 - Seat to Lower Face of Thoracic Spine Box	mm	346	356	351	Pass
4 - Seat to Hip Joint (bolt center)	mm	97	103	100	Pass
5 - Sole to Seat, Sitting	mm	433	451	445	Pass
6 - Head Width	mm	152	158	153	Pass
7 - Shoulder/Arm Width	mm	461	479	473	Pass
8 - Thorax Width	mm	322	332	324	Pass
9 - Abdomen Width	mm	273	287	282	Pass
10 - Pelvis Lap Width	mm	359	373	368	Pass
11 - Head Depth	mm	196	206	203	Pass
12 - Thorax Depth	mm	262	272	269	Pass
13 - Abdomen Depth	mm	194	204	201	Pass
14 - Pelvis Depth	mm	235	245	240	Pass
15 - Back of Buttocks to Hip Joint (bolt Center)	mm	150	160	155	Pass
16 - Back of Buttocks to Front Knee	mm	597	615	606	Pass
				Overall Test Results	Pass

Technician: A. Ponce

Approved By: J. Hernandez

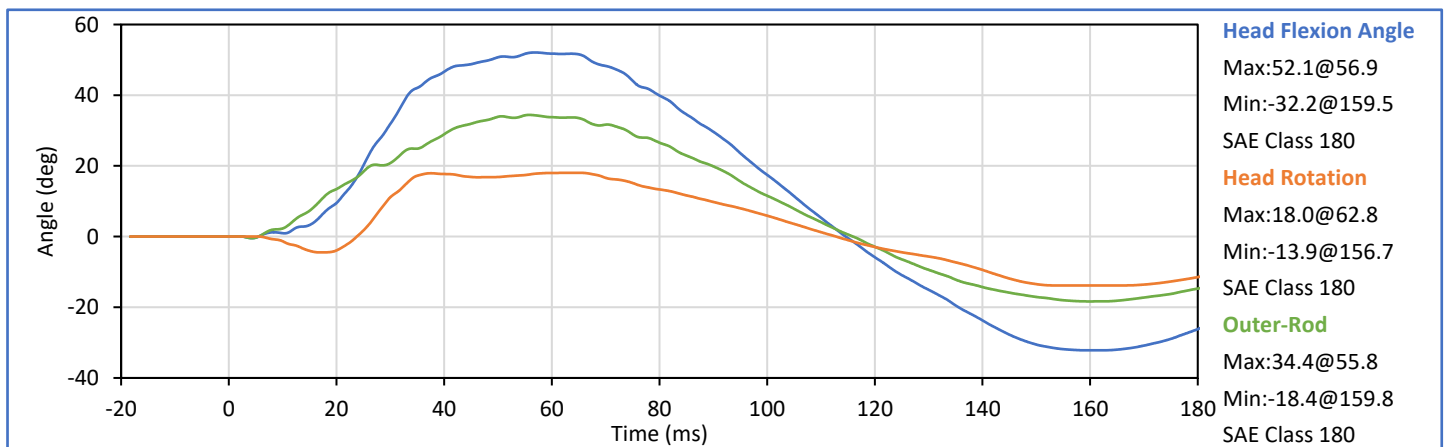
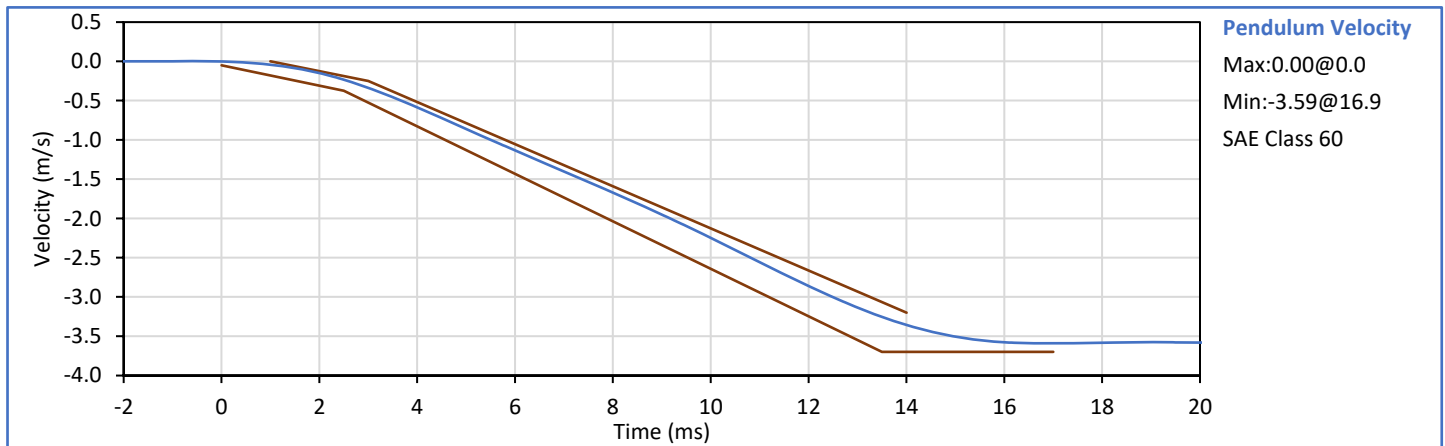
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.3	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Peak Resultant Acceleration	g	125.0	155.0	137.3	Pass
Peak Head Ax	g	-15.0	15.0	3.3	Pass
Oscillations After Main Pulse	%	0.0	15.0	1.9	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician: A. Ponce

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Pendulum Velocity	m/s	3.30	3.50	3.42	Pass
Peak Headform Flexion	deg	49.0	59.0	52.1	Pass
Time of Peak Headform Flexion	ms	54.0	66.0	56.9	Pass
Flexion Decay (Peak to zero)	ms	53.0	88.0	57.8	Pass
Overall Test Results					Pass



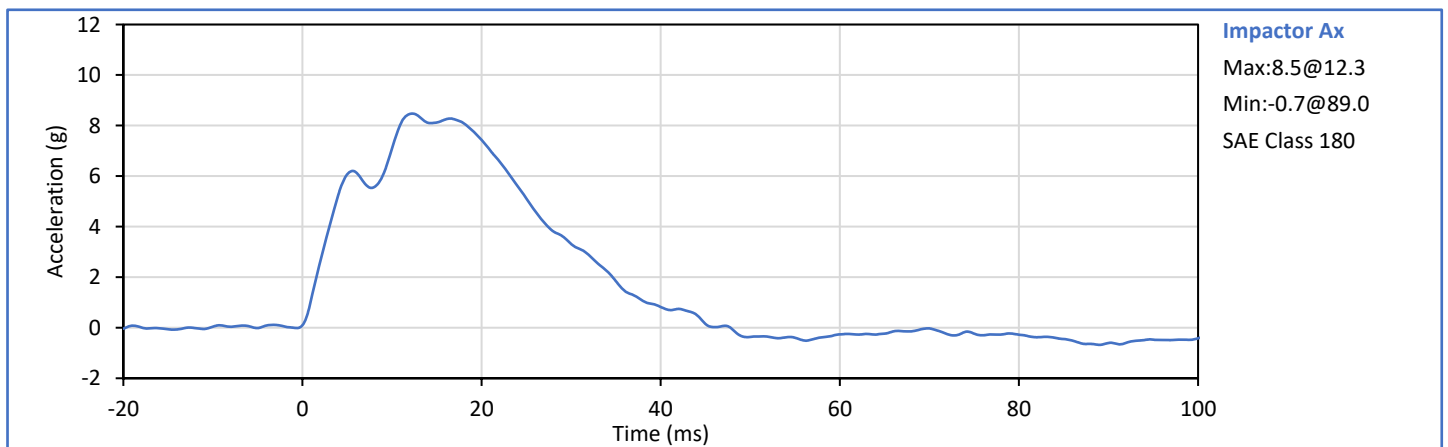
Technician: A. Ponce

Approved By: J. Hernandez

ATD Serial No.: F035

Test Date: 2025-12-15

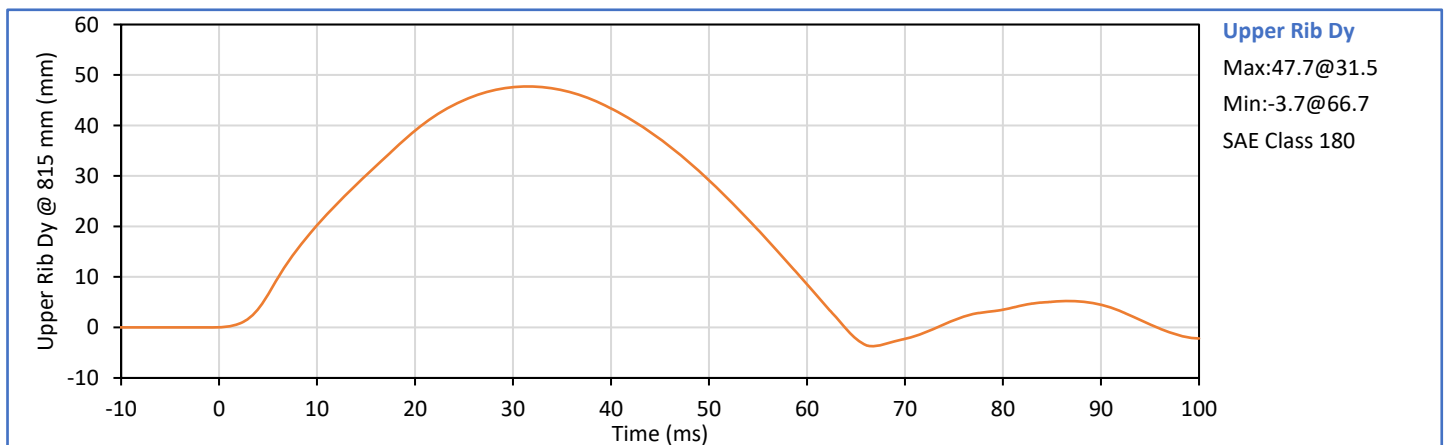
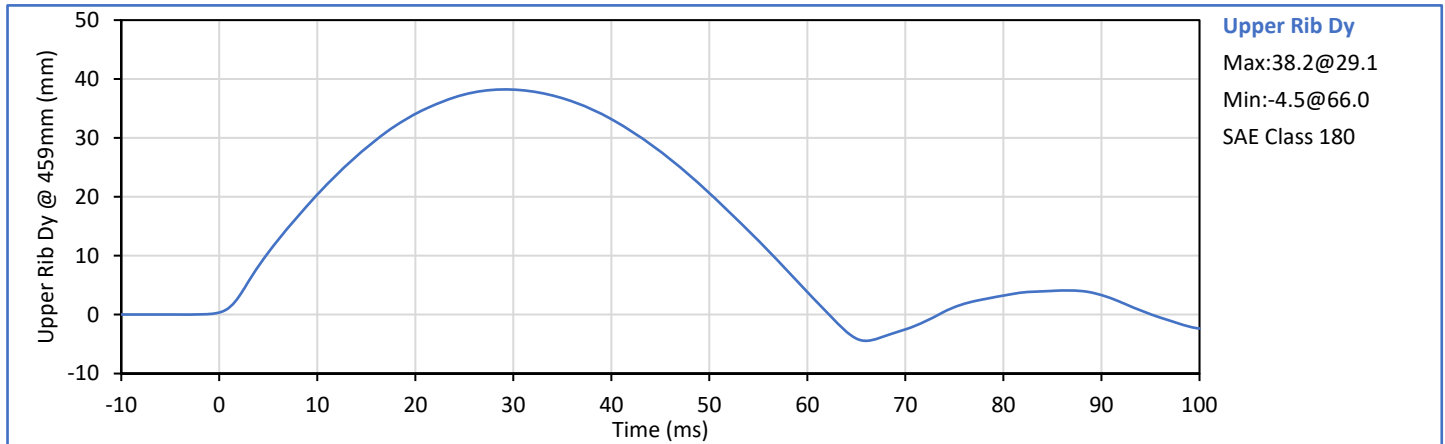
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Impactor Ax	g	7.5	10.5	8.5	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

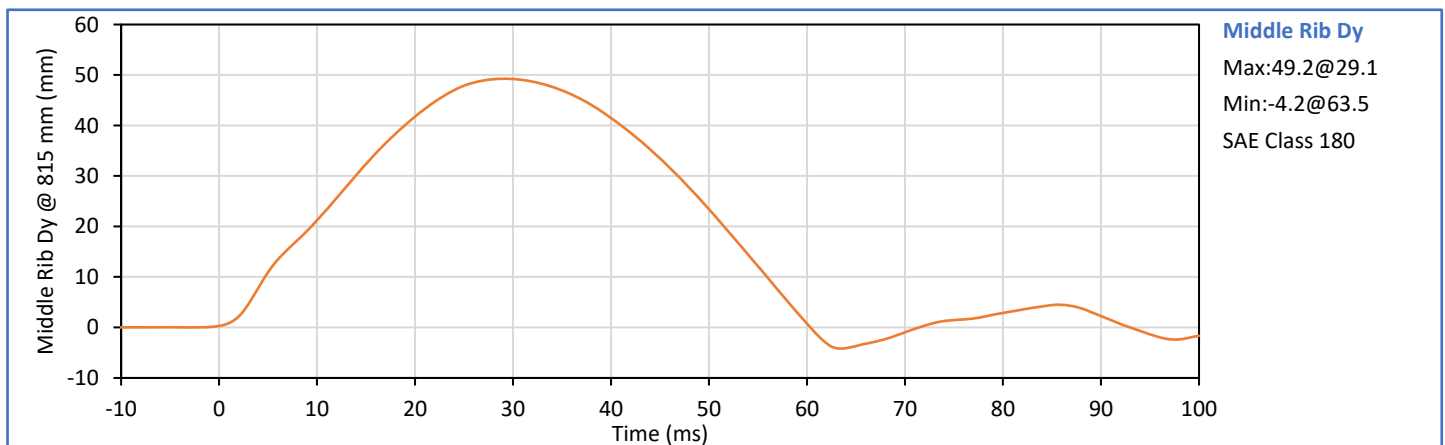
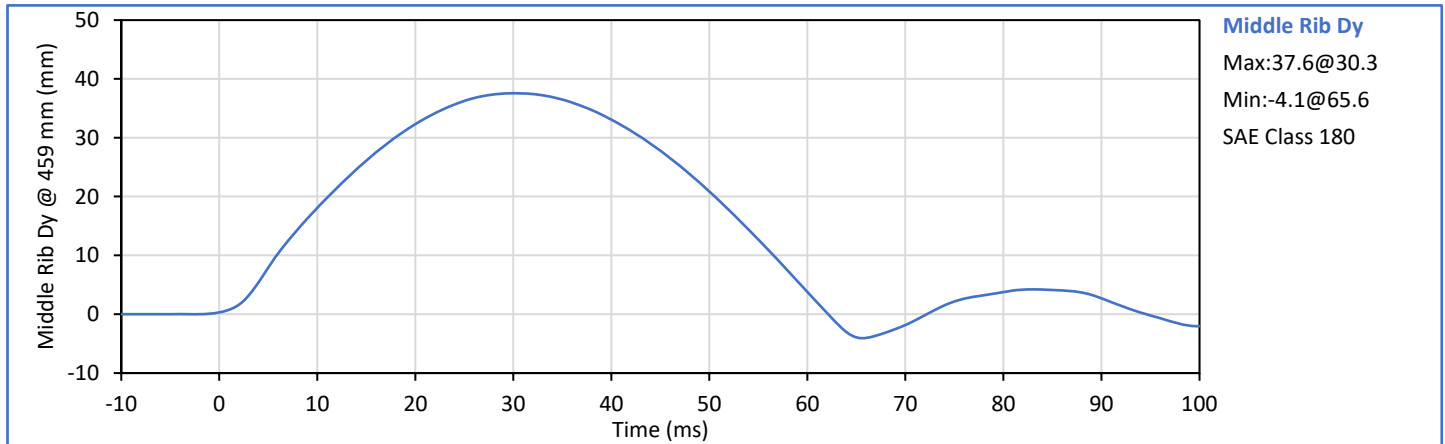
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	34	Pass
Upper Rib Dy @ 459mm	mm	36.0	40.0	38.2	Pass
Upper Rib Dy @ 815mm	mm	46.0	51.0	47.7	Pass
Overall Test Results				Pass	



Technician: A. Ponce

Approved By: J. Hernandez

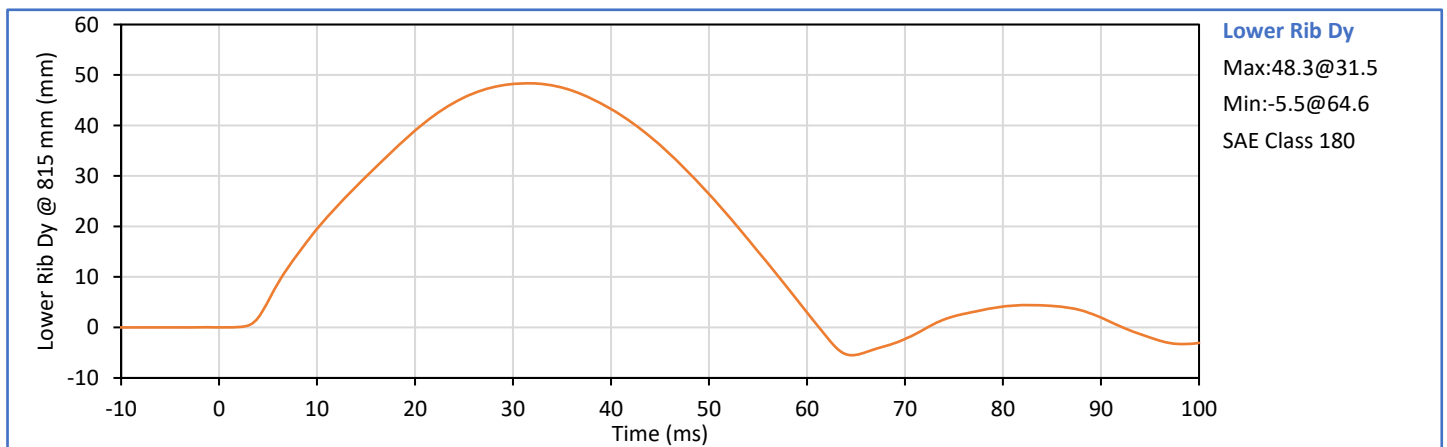
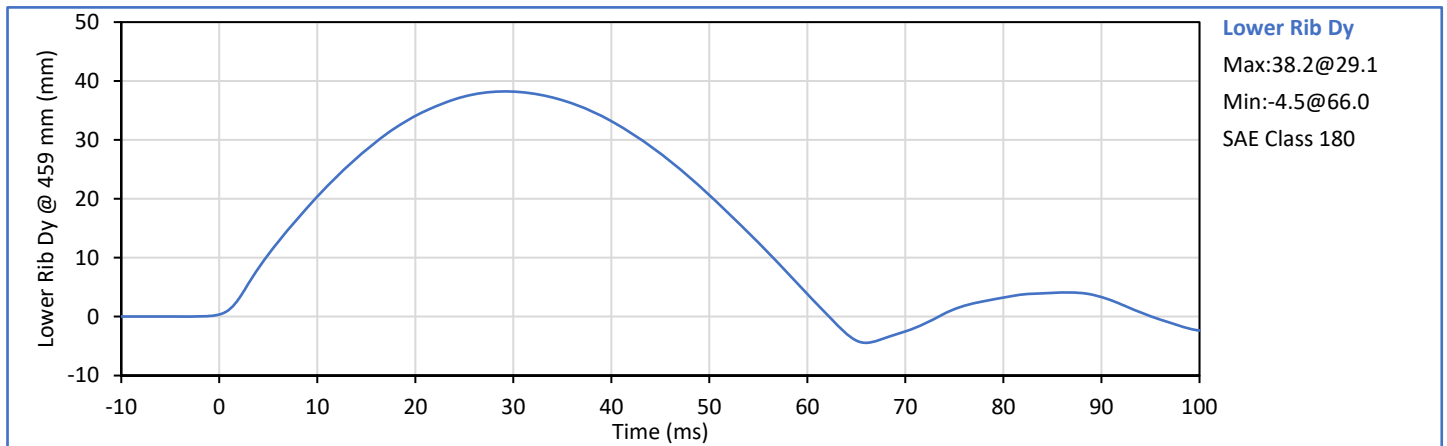
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	34	Pass
Middle Rib Dy @ 459mm	mm	36.0	40.0	37.6	Pass
Middle Rib Dy @ 815mm	mm	46.0	51.0	49.2	Pass
Overall Test Results				Pass	Pass



Technician: A. Ponce

Approved By: J. Hernandez

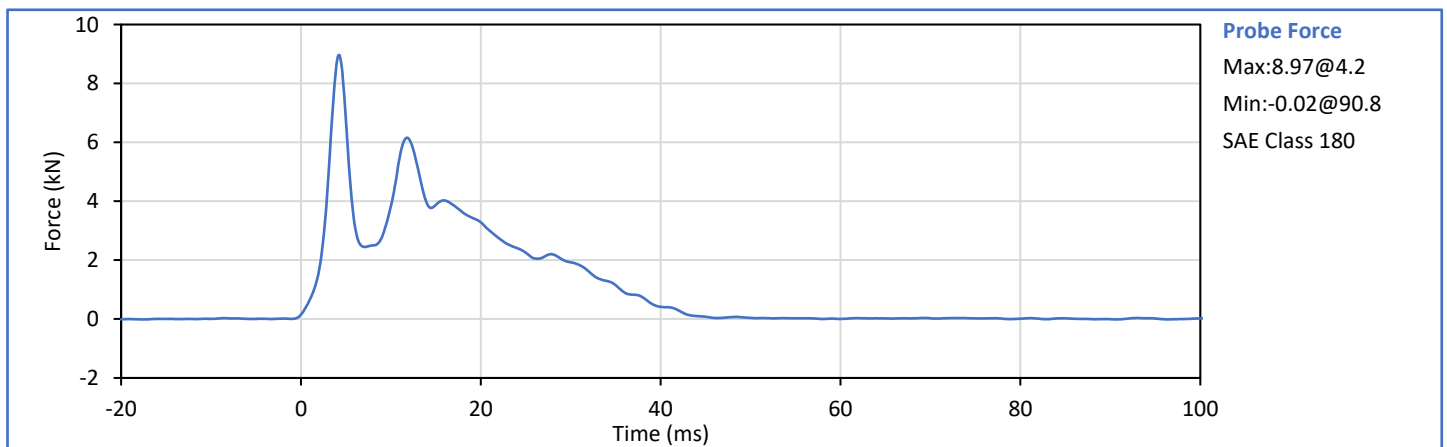
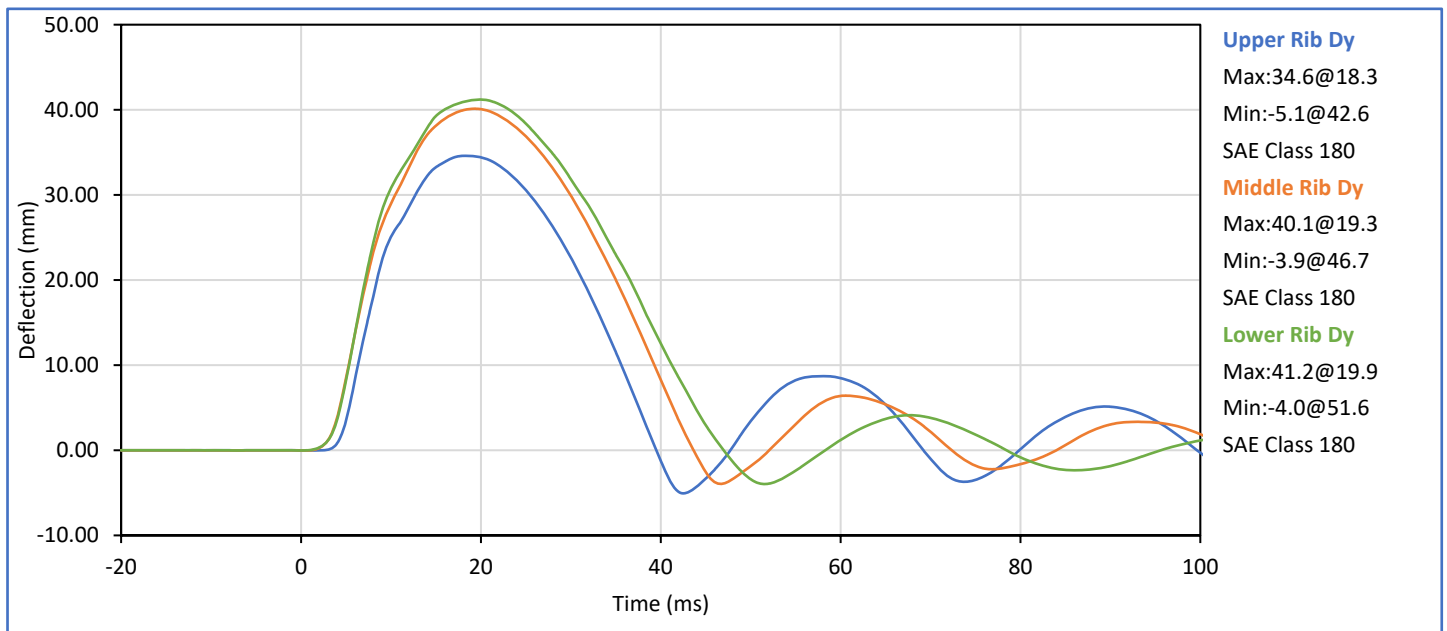
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Lower Rib Dy @ 459mm	mm	36.0	40.0	38.2	Pass
Lower Rib Dy @ 815mm	mm	46.0	51.0	48.3	Pass
Overall Test Results				Pass	Pass



Technician: A. Ponce

Approved By: J. Hernandez

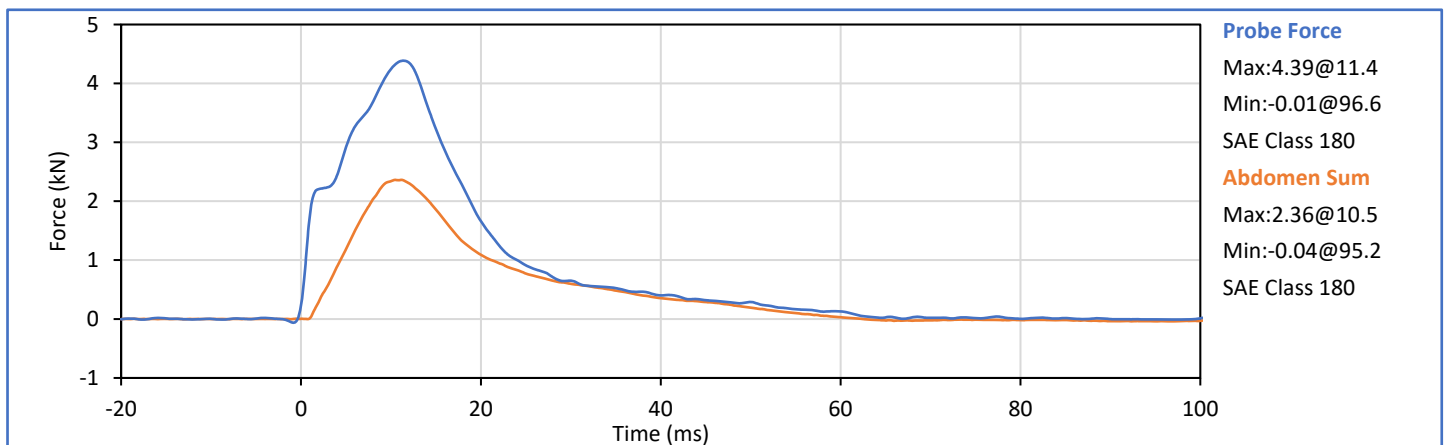
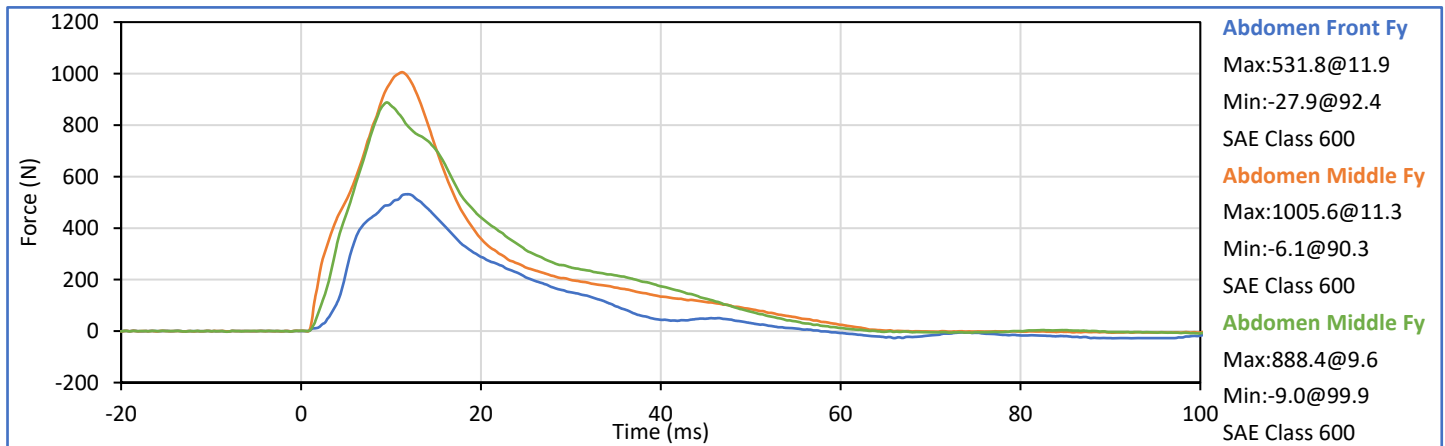
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	5.40	5.60	5.52	Pass
Peak Upper Rib Dy	mm	34.0	41.0	34.6	Pass
Peak Middle Rib Dy	mm	37.0	45.0	40.1	Pass
Peak Lower Rib Dy	mm	37.0	44.0	41.2	Pass
Peak Impactor Force After 6 ms	kN	5.10	6.20	6.15	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

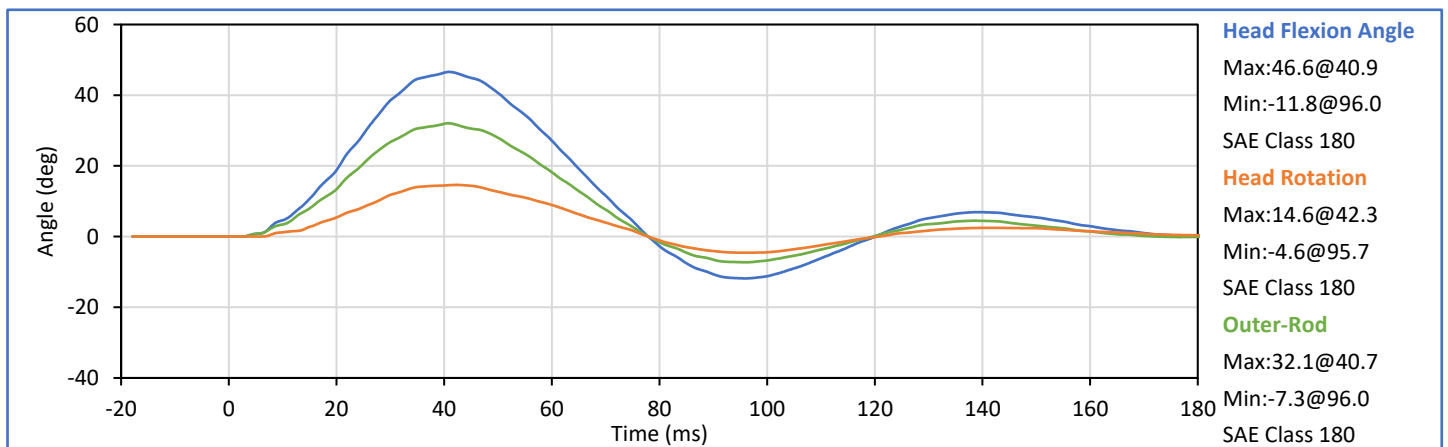
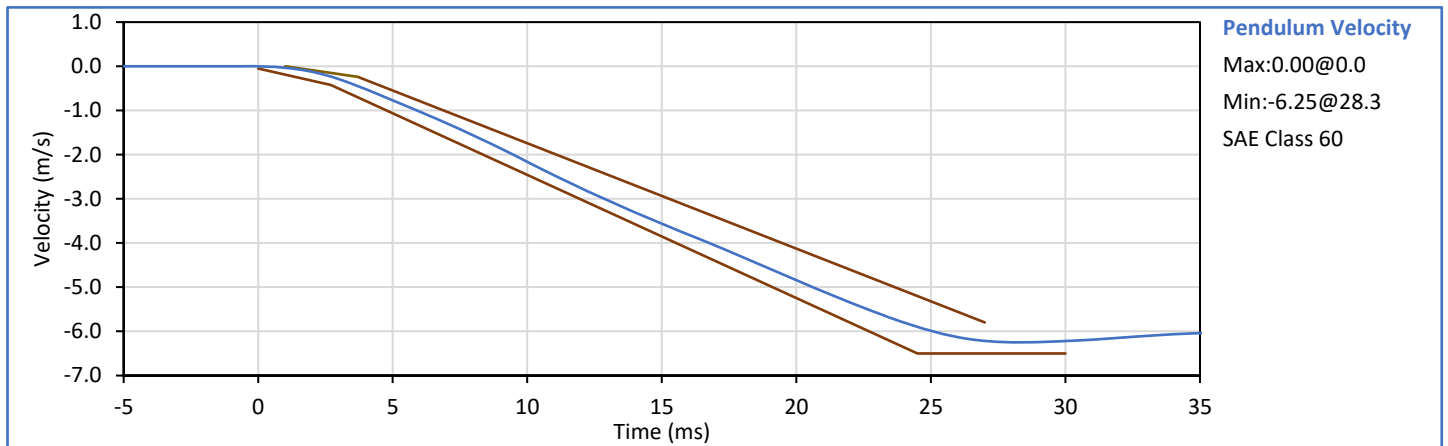
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	3.90	4.10	4.01	Pass
Peak Impactor Force	kN	4.00	4.80	4.39	Pass
Time of Peak Impactor Force	ms	10.6	13.0	11.4	Pass
Sum of Abdomen Forces	kN	2.20	2.70	2.36	Pass
Time of Peak Sum Abdomen Force	ms	10.0	12.3	10.5	Pass
				Overall Test Results	Pass



Technician: A. Ponce

Approved By: J. Hernandez

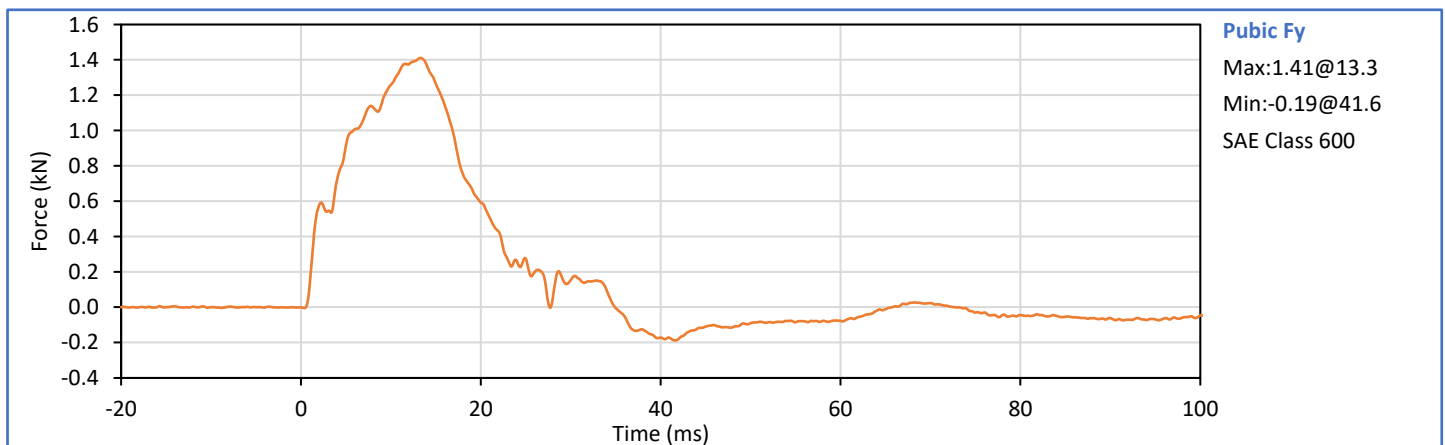
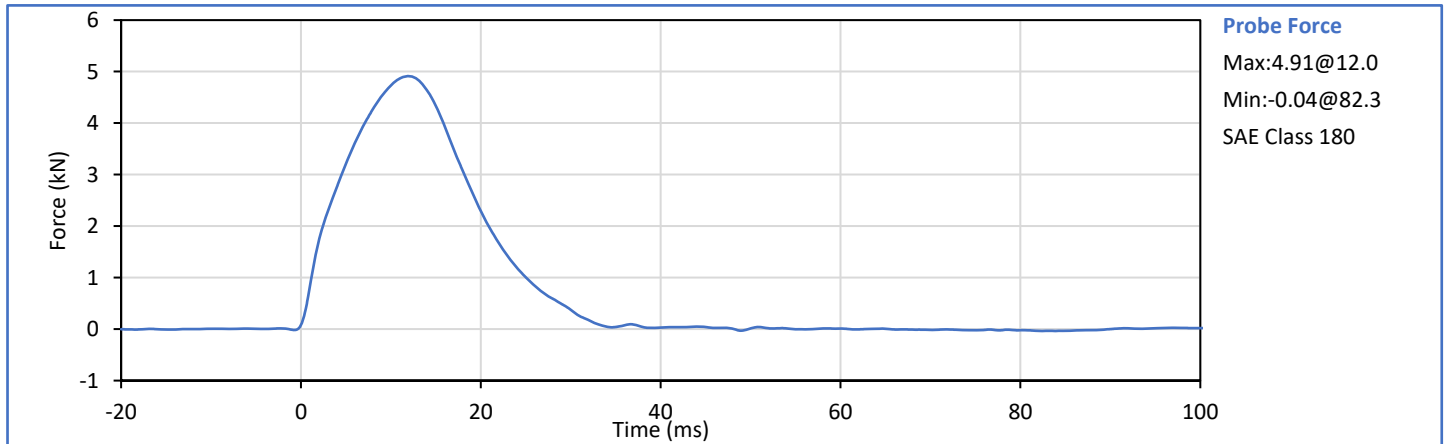
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Pendulum Velocity	m/s	5.95	6.15	6.08	Pass
Peak Headform Flexion	deg	45.0	55.0	46.6	Pass
Time of Peak Headform Flexion	ms	39.0	53.0	40.9	Pass
Flexion Decay (Peak to zero)	ms	37.0	57.0	37.0	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Impactor Force	kN	4.70	5.40	4.91	Pass
Time of Peak Impactor Force	ms	11.8	16.1	12.0	Pass
Pubic Symphysis Fy	kN	1.23	1.59	1.41	Pass
Time of Peak Pubic Symphysis Fy	ms	12.2	17.0	13.3	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

APPENDIX C
Post-Test ATD Qualification and Performance Verification
SID-IIs Small Side Impact ATD, Left Side Configuration
S/N: 308

ATD Serial No.: 308

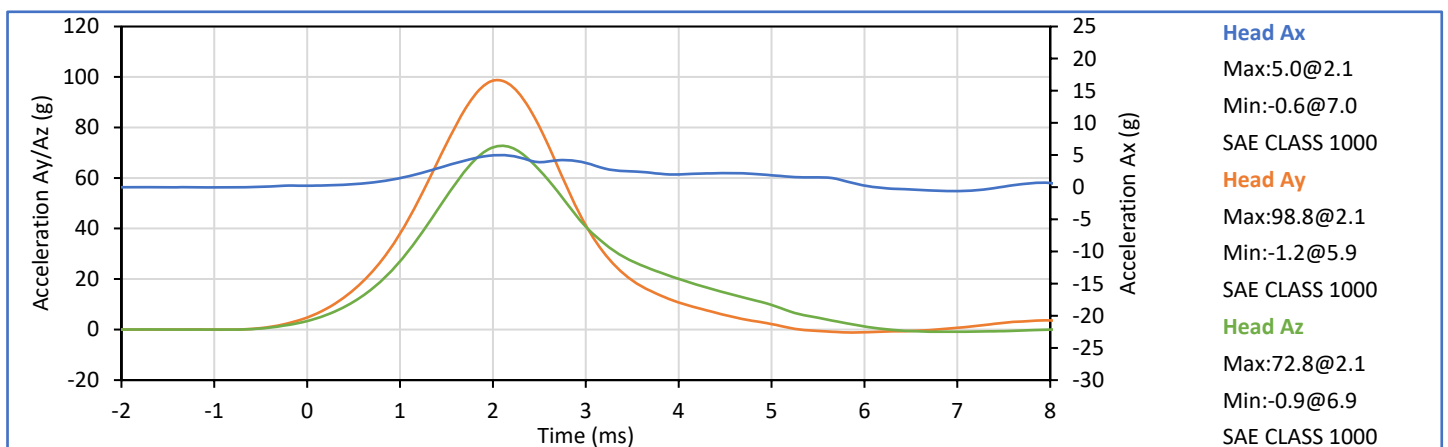
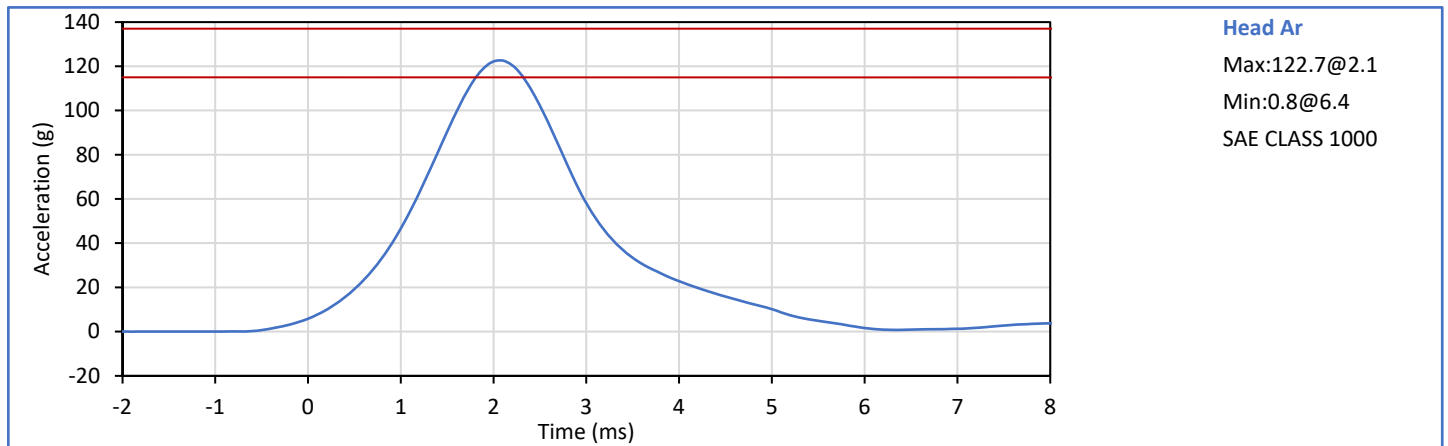
Test Date: 2025-12-17

Tested Parameter	Units	Spec Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.1	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
A - Sitting Height	mm	772	788	776	Pass
B - Shoulder Pivot Height	mm	437	453	450	Pass
C - Hpoint Height	mm	79	89	84	Pass
D - H Point From Seatback	mm	141	151	146	Pass
E - Shoulder Pivot From Backline	mm	97	107	101	Pass
F - Thigh Clearance	mm	119	135	124	Pass
G - Head Breadth	mm	140	148	143	Pass
H - Head Back From Backline	mm	40	46	43	Pass
I - Head Depth	mm	178	188	185	Pass
J - Head Circumference	mm	541	551	545	Pass
K - Buttock To Knee Length	mm	514	540	520	Pass
L - Popliteal Height	mm	343	369	361	Pass
K - Knee Pivot To Floor Height	mm	392	409	404	Pass
N - Buttock Popliteal Length	mm	416	442	427	Pass
O - Chest Depth W/O Jacket	mm	195	211	202	Pass
P - Foot Length	mm	216	232	219	Pass
Q - Hip Breadth (W/Pelvic Plugs)	mm	313	323	317	Pass
R - Arm Length	mm	249	259	253	Pass
S - Knee Joint To Seatback	mm	477	493	486	Pass
V - Shoulder Width	mm	341	357	349	Pass
W - Foot Width	mm	78	94	85	Pass
Y - Chest Circumference W/Jacket	mm	851	881	863	Pass
Z - Waist Circumference	mm	761	791	775	Pass
				Overall Test Results	Pass

Technician: A. Ponce

Approved By: J. Hernandez

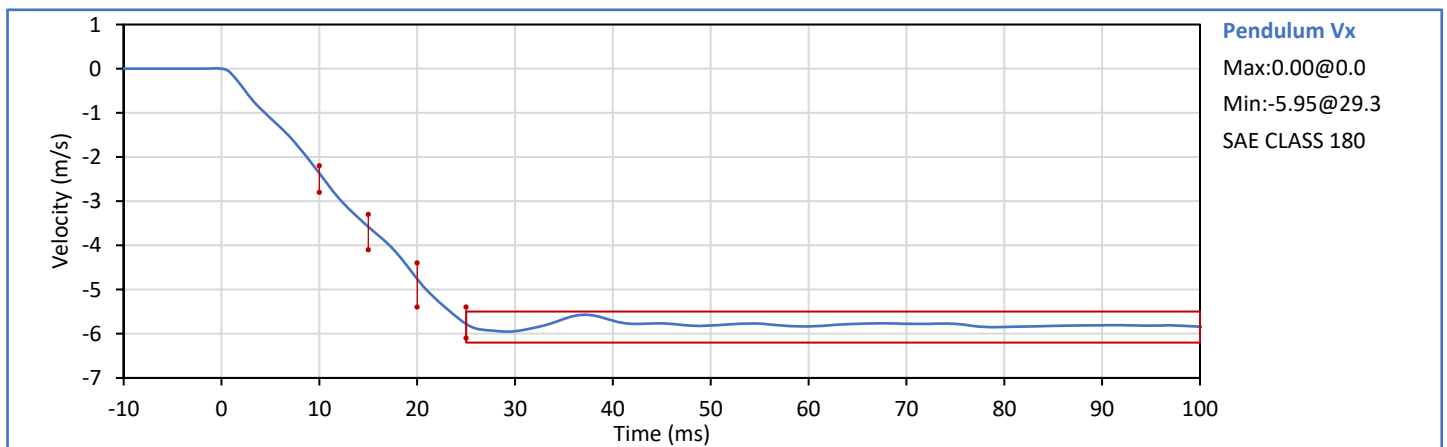
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.7	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Peak Resultant Acceleration	g	115.0	137.0	122.7	Pass
Peak Head Ax	g	-15.0	15.0	5.0	Pass
Oscillations After Main Pulse	%	0.0	15.0	3.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician: A. Ponce

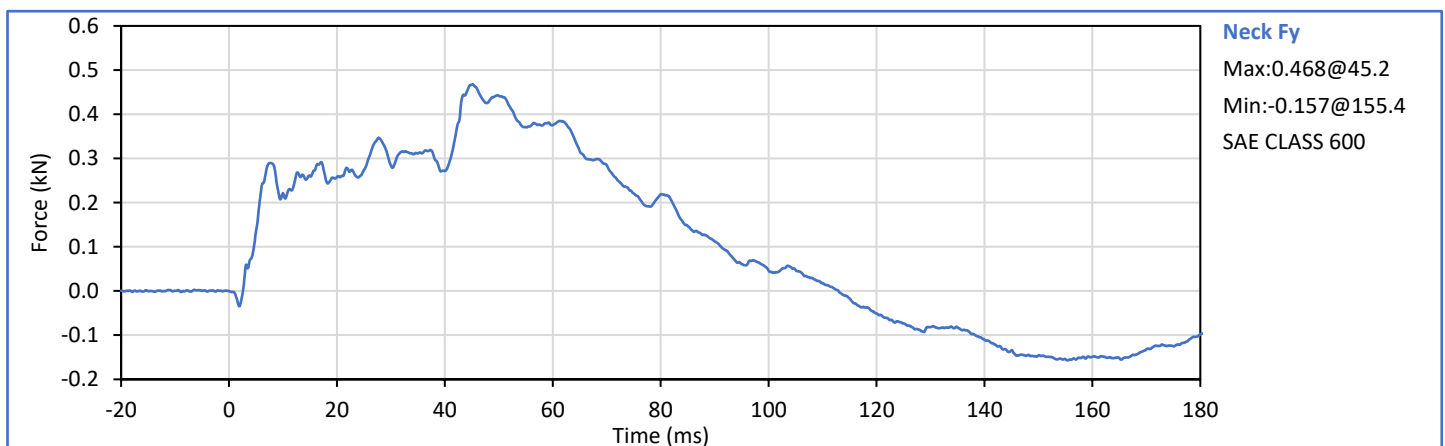
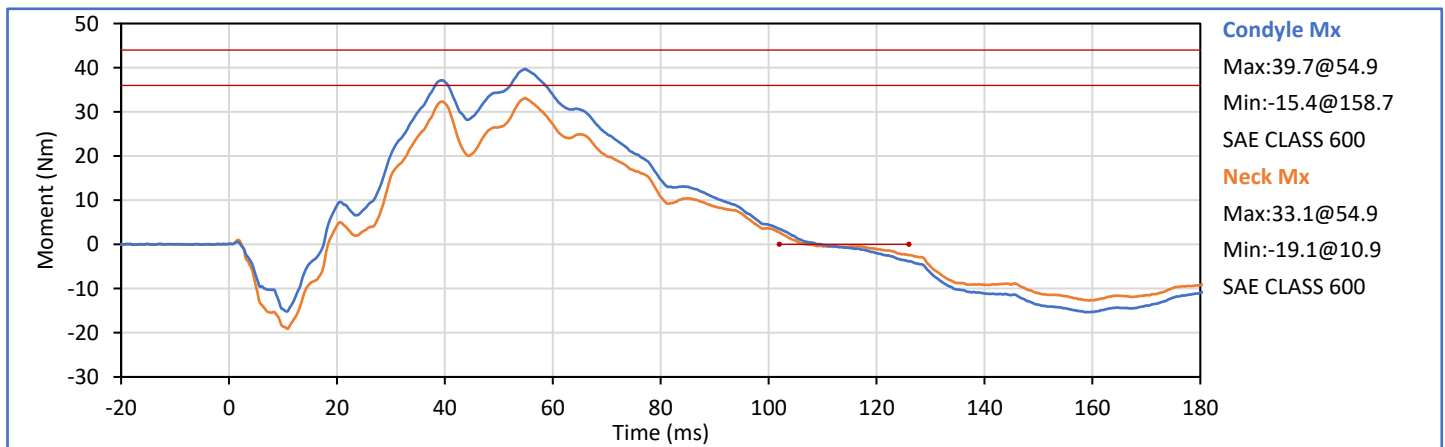
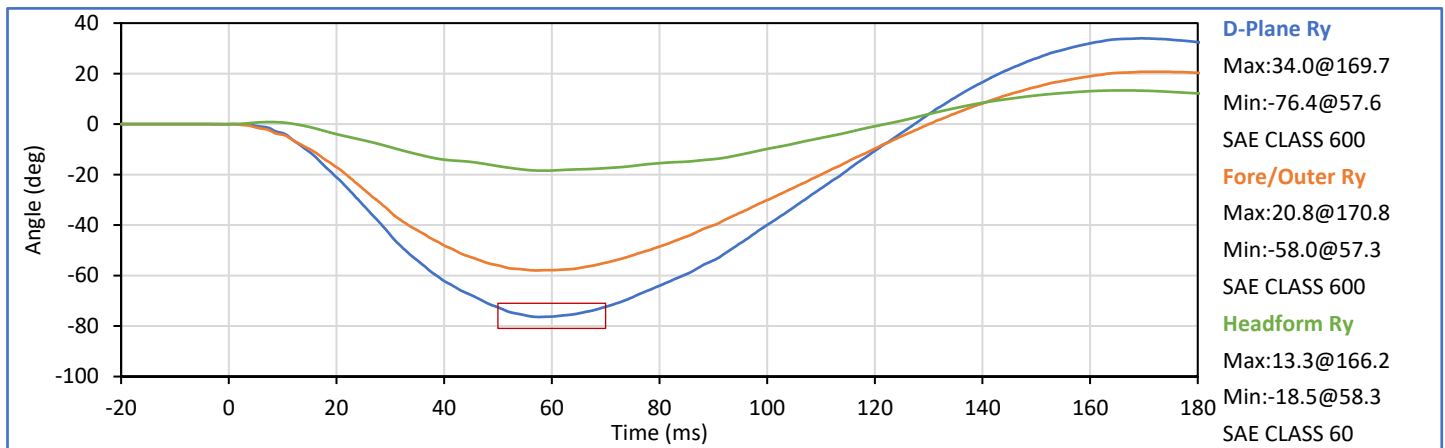
Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	30	Pass
Pendulum Velocity	m/s	5.51	5.63	5.61	Pass
Pendulum Decel at 10 ms	m/s	-2.80	-2.20	-2.37	Pass
Pendulum Decel at 15 ms	m/s	-4.10	-3.30	-3.58	Pass
Pendulum Decel at 20 ms	m/s	-5.40	-4.40	-4.76	Pass
Pendulum Decel at 25 ms	m/s	-6.10	-5.40	-5.78	Pass
Pendulum Decel from 25-100 ms	m/s	-6.20	-5.50	-5.95/-5.57	Pass
Peak "D" Plane Rotation	deg	-81.0	-71.0	-76.4	Pass
Time of Peak "D" Plane Rotation	ms	50.0	70.0	57.6	Pass
Peak Occ. Condyle Moment	Nm	36.0	44.0	39.7	Pass
Time of Moment Decay to 0 Nm	ms	102.0	126.0	109.8	Pass
				Overall Test Results	Pass



Technician: A. Ponce

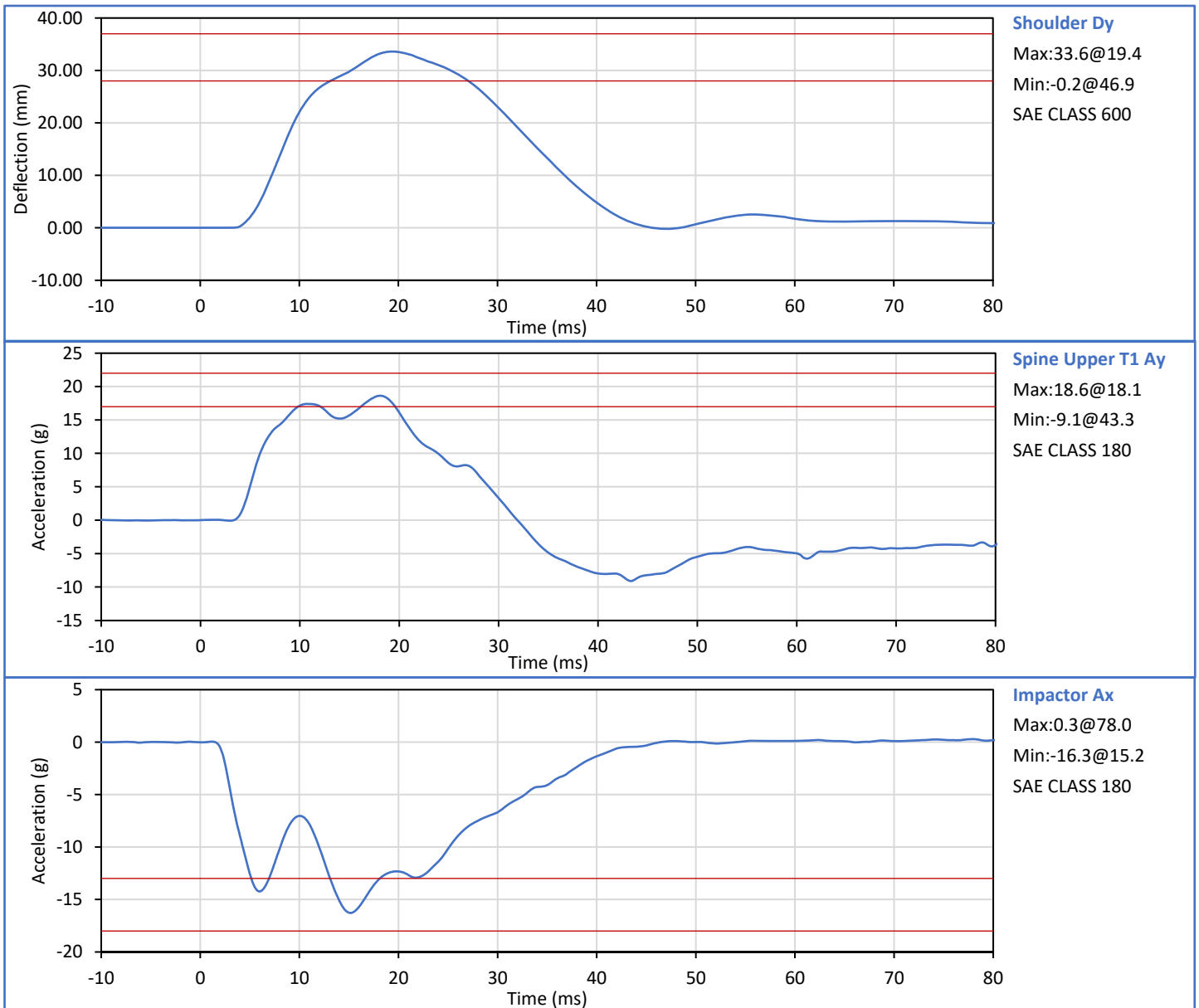
Approved By: J. Hernandez



ATD Serial No.: 308

Test Date: 2025-12-17

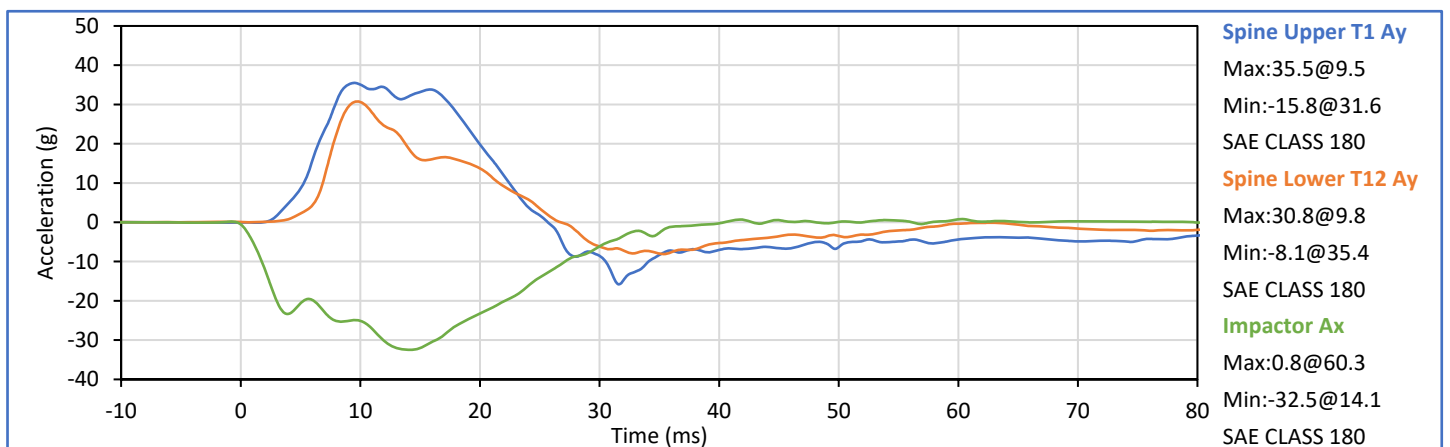
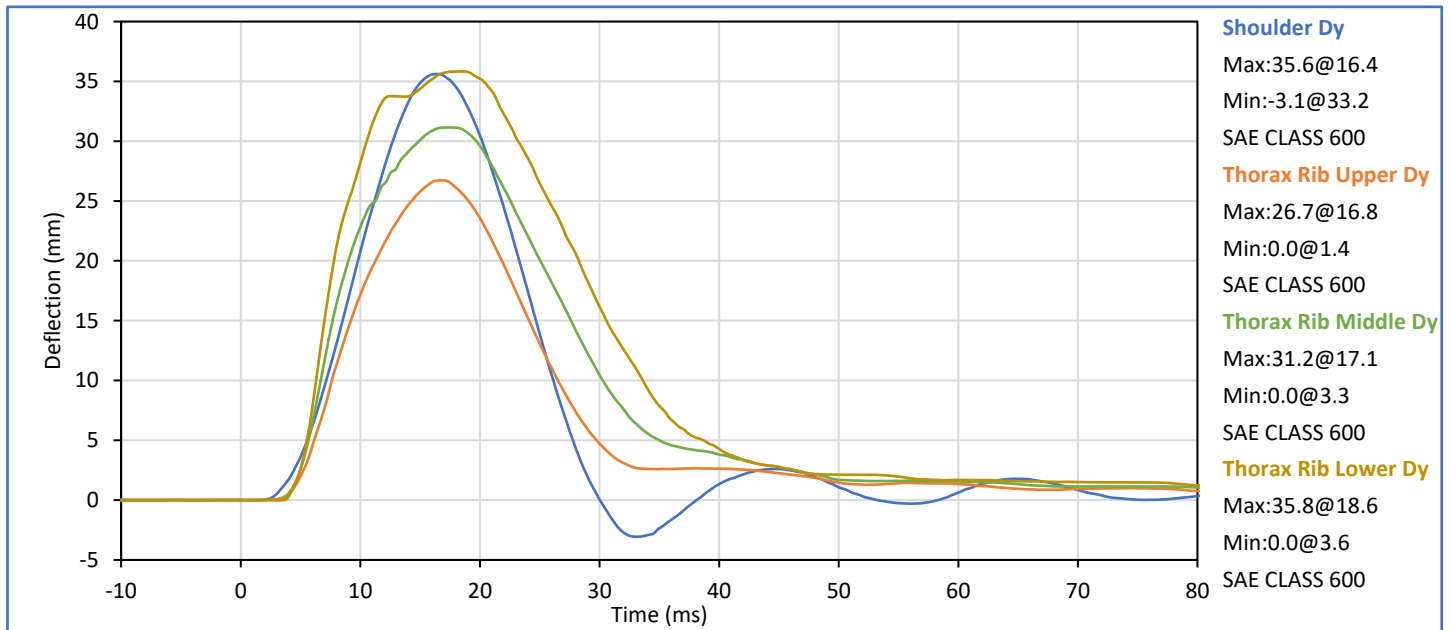
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Shoulder Dy	mm	28.0	37.0	33.6	Pass
Peak Upper Spine (T1) Ay	g	17.0	22.0	18.6	Pass
Peak Impactor Ax	g	-18.0	-13.0	-16.3	Pass
Overall Test Results					Pass



Technician: A. Ponce

Approved By: J. Hernandez

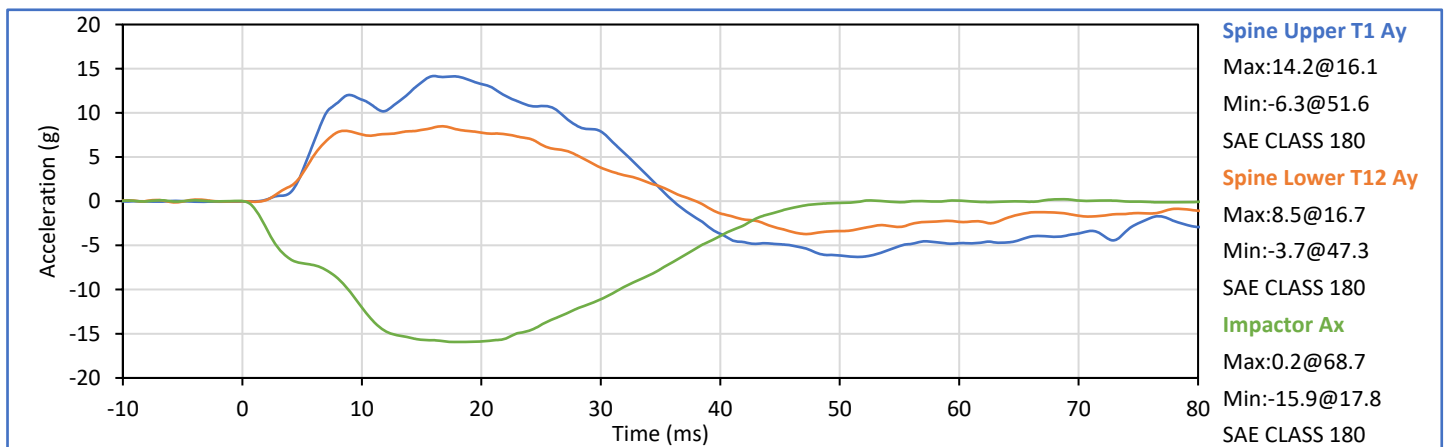
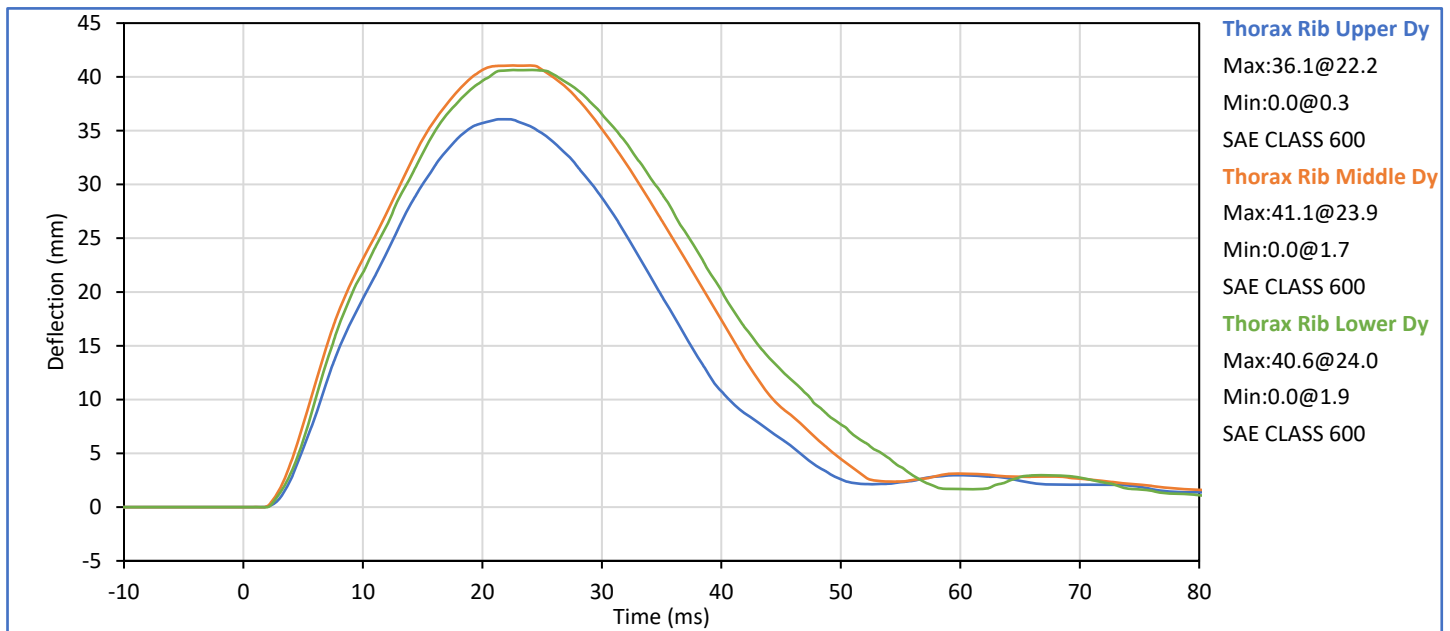
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.6	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	6.60	6.80	6.72	Pass
Peak Shoulder Dy	mm	31.0	40.0	35.6	Pass
Peak Upper Rib Dy	mm	25.0	32.0	26.7	Pass
Peak Middle Rib Dy	mm	30.0	36.0	31.2	Pass
Peak Lower Rib Dy	mm	32.0	38.0	35.8	Pass
Peak Upper Spine (T1) Ay	g	34.0	43.0	35.5	Pass
Peak Lower Spine (T12) Ay	g	29.0	37.0	30.8	Pass
Peak Impactor Ax	g	-36.0	-30.0	-32.5	Pass
Overall Test Results				Pass	



Technician: A. Ponce

Approved By: J. Hernandez

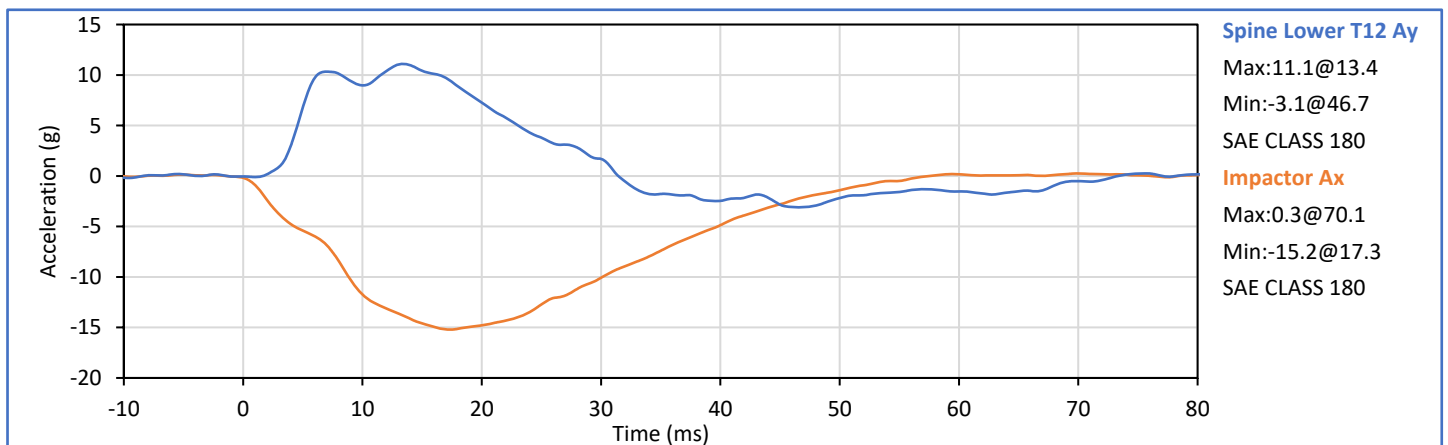
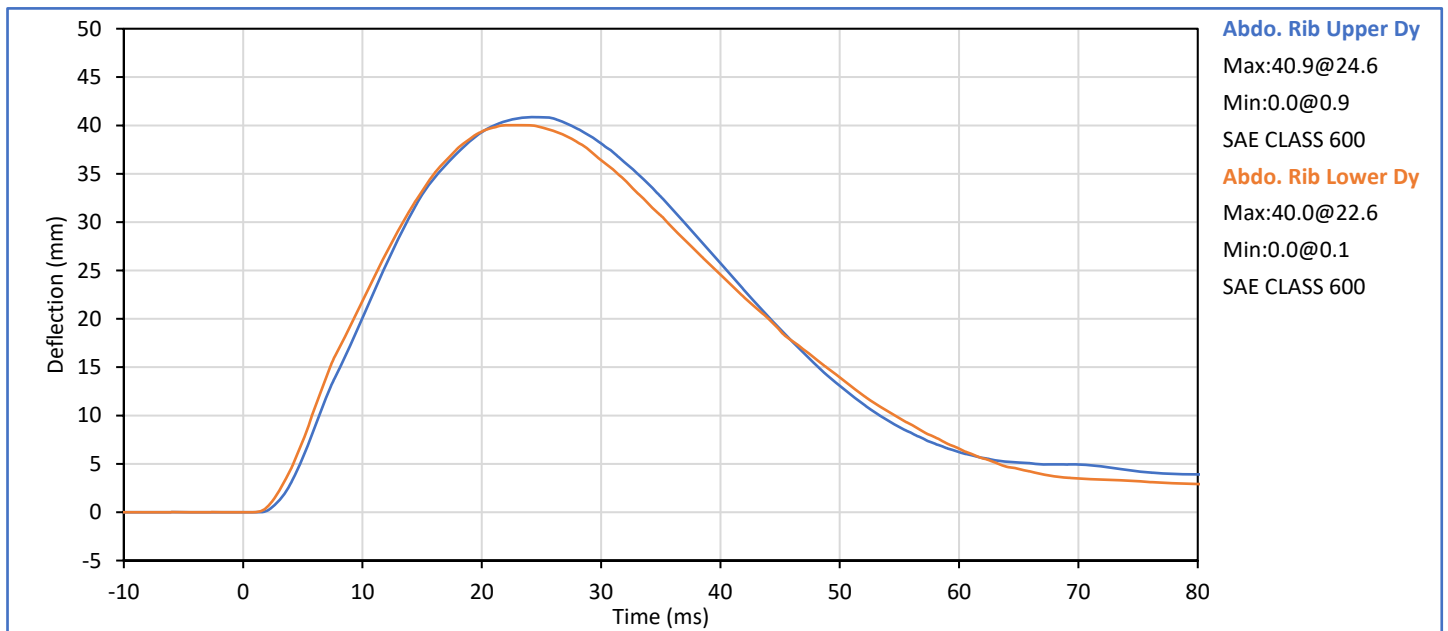
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Thorax Rib Upper Dy	mm	32.0	40.0	36.1	Pass
Peak Thorax Rib Middle Dy	mm	39.0	45.0	41.1	Pass
Peak Thorax Rib Lower Dy	mm	35.0	43.0	40.6	Pass
Peak Spine Upper T1 Ay	g	13.0	17.0	14.2	Pass
Peak Spine Lower T12 Ay	g	7.0	11.0	8.5	Pass
Peak Impactor Ax	g	-18.0	-14.0	-15.9	Pass
Overall Test Results				Pass	Pass



Technician: A. Ponce

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Upper Abdomen Rib Dy	mm	36.0	47.0	40.9	Pass
Peak Lower Abdomen Rib Dy	mm	33.0	44.0	40.0	Pass
Peak Lower Spine T12 Ay	mm	9.0	14.0	11.1	Pass
Peak Impactor Ax	g	-16.0	-12.0	-15.2	Pass
Overall Test Results					Pass



Technician: A. Ponce

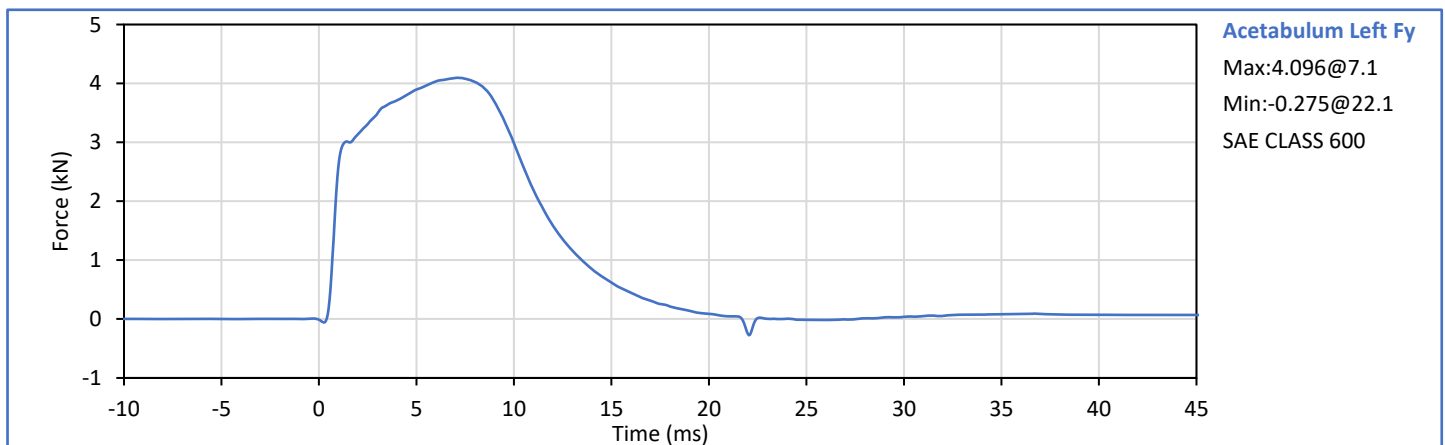
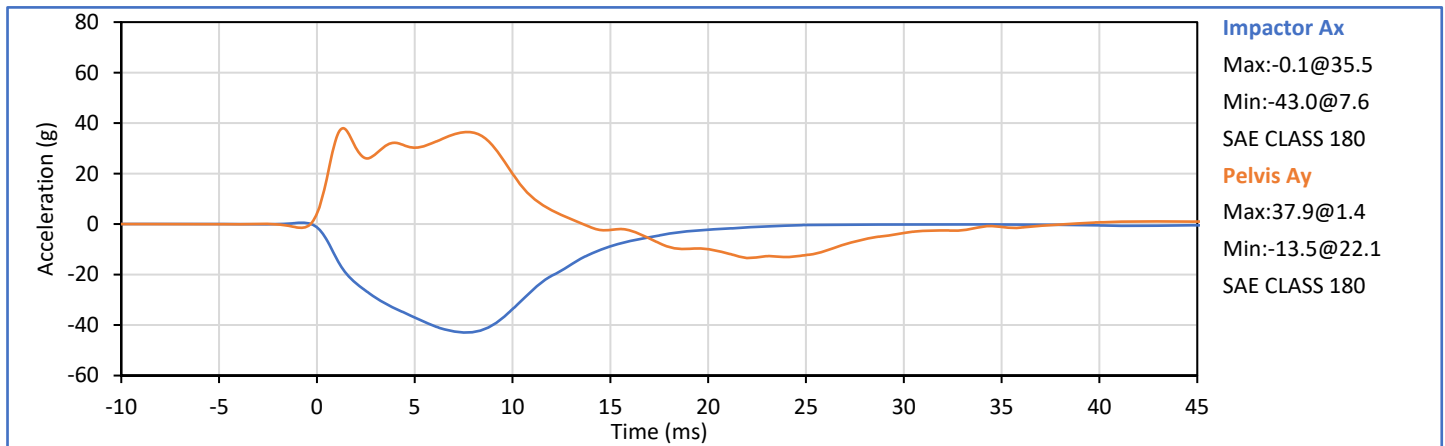
Approved By: J. Hernandez

ATD Serial No.: 308

Test Date: 2025-12-17

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	33	Pass
Impactor Velocity	m/s	6.60	6.80	6.72	Pass
Peak Acetabulum Fy	kN	3.60	4.30	4.10	Pass
Pelvis Ay after 6ms	g	34.0	42.0	36.5	Pass
Peak Impactor Ax	g	-47.0	-38.0	-43.0	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 16483



Technician: A. Ponce

Approved By: J. Hernandez

ATD Serial No.: 308

Test Date: 2025-12-17

Pelvis Plug S/N: 16483



SID-IIs Pelvis Plug Certification Test

Plug S/N 16483

Test Number 23266

Report Number 23323

Test Date 7/14/2022 12:17:19 PM

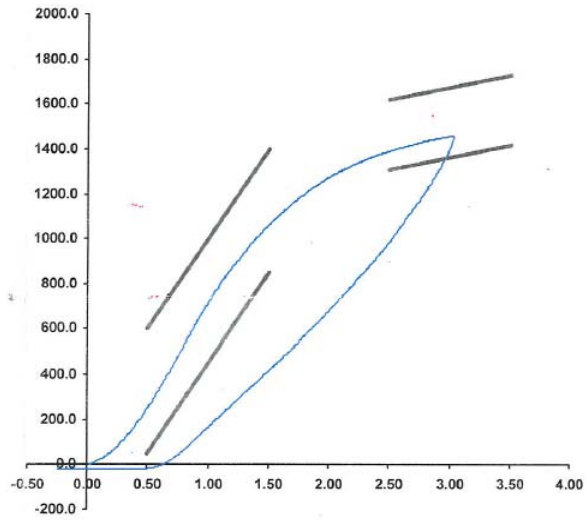
	Test Results	Spec Min	Spec Max
Force @ 0.5 mm (N)	255	50	600
Force @ 1.5 mm (N)	1,067	850	1,400
Force @ 2.5 mm (N)	1,393	1,306	1,618
Force @ 3.0 mm (N)	1,457	1,361	1,673

Testing Machine STM-20 5965542
Load Cell S/N (FI360947), Units (LBS) 1000

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

Notes:

Force (-N) vs Extension (-mm)



Operator

Part Number 180-4450

Template No 107 14-Jul-22

SACO Research

By: DC Date: 7/14/22

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

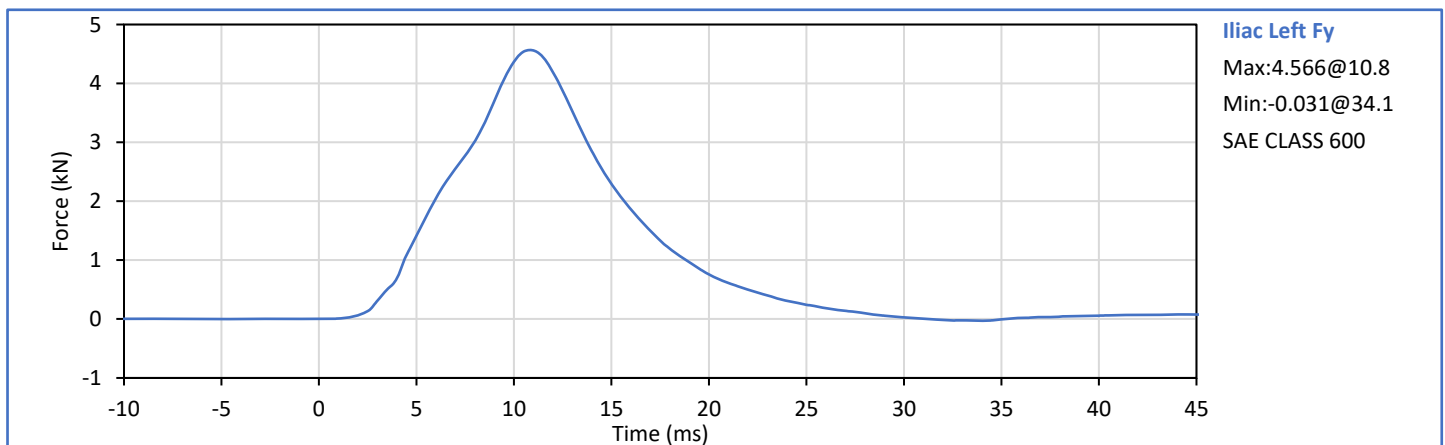
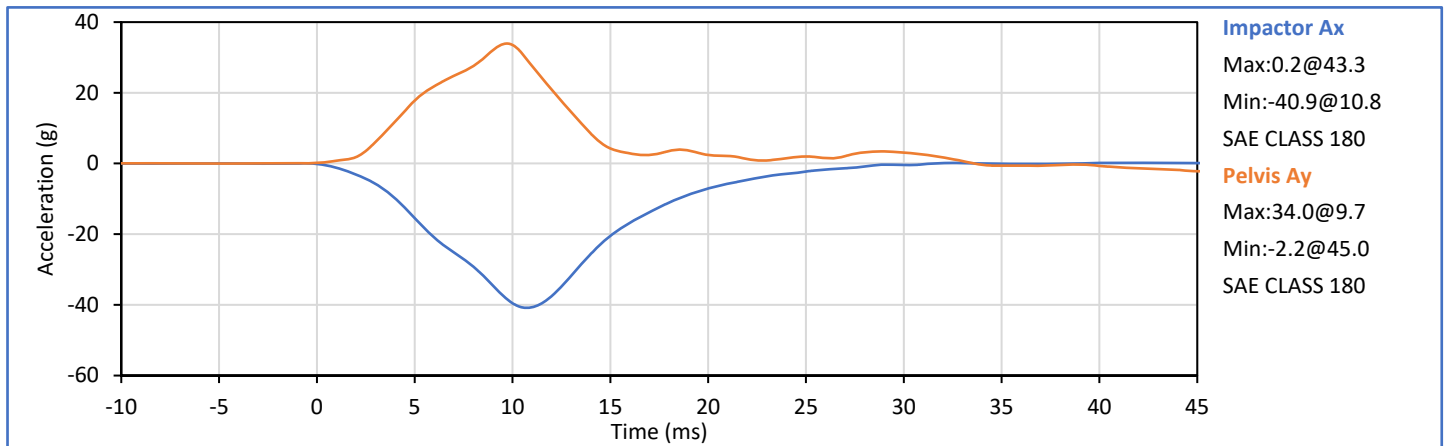
ATD Serial No.: 308

Test Date: 2025-12-17

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory Relative Humidity	%	10	70	34	Pass
Impactor Velocity	m/s	4.20	4.40	4.32	Pass
Peak Iliac Fy	kN	4.10	5.10	4.57	Pass
Peak Pelvis Ay	g	28.0	39.0	34.7	Pass
Peak Impactor Ax	g	-45.0	-36.0	-40.9	Pass
Overall Test Results					Pass

Pelvis Plug S/N: 17751 *

* Plug is not impacted and remains certified



Technician: A. Ponce

Approved By: J. Hernandez

APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION DATA

Table 1 - Driver ATD Instrumentation

Sensor Location	Sensor S\N	Mfr	Model	Cal Date
Head Acceleration X Primary	P51942	Endevco	7264HM6-2k-360	2025-12-07
Head Acceleration Y Primary	P68610	Endevco	7264C-2k	2025-12-07
Head Acceleration Z Primary	P51692	Endevco	7264C-2k	2025-12-07
Head Acceleration X Redundant	P51964	Endevco	7264C-2k	2025-12-07
Head Acceleration Y Redundant	P58734	Endevco	7264C-2k	2025-12-07
Head Acceleration Z Redundant	P51968	Endevco	7264C-2k	2025-12-07
Upper Thorax Rib Deflection Y	180 (ES-2 Rib)	Honeywell	F38000203	2025-12-07
Middle Thorax Rib Deflection Y	177 (ES-2 Rib)	Honeywell	F38000203	2025-12-07
Lower Thorax Rib Deflection Y	186 (ES-2 Rib)	Honeywell	F38000203	2025-12-07
Anterior Abdominal Force Y	1514 Fy	R.A. Denton	2631J	2025-07-11
Middle Abdominal Force Y	1510 Fy	R.A. Denton	2631J	2025-07-11
Posterior Abdominal Force Y	1515 Fy	R.A. Denton	2631J	2025-07-11
Lower Spine T12 Acceleration X	P49234	Endevco	7264C-2k	2025-12-07
Lower Spine T12 Acceleration Y	P51696	Endevco	7264C-2KTZ	2025-12-07
Lower Spine T12 Acceleration Z	P49174	Endevco	7264C-2k	2025-12-07
Pubic Symphysis Force Y	DG6834 Fy	FTSS	IF-556	2025-07-11

Table 2 - Left Rear Passenger ATD Instrumentation

Sensor Location	Sensor S\N	Mfr	Model	Cal Date
Head Acceleration X Primary	P63980	Endevco	7264C-2k	2025-10-11
Head Acceleration Y Primary	P58861	Endevco	7264C-2k	2025-10-11
Head Acceleration Z Primary	P51261	Endevco	7264C-2k	2025-10-11
Head Acceleration X Redundant	P58808	Endevco	7264C-2k	2025-10-11
Head Acceleration Y Redundant	P63310	Endevco	7264C-2k	2025-10-11
Head Acceleration Z Redundant	P49189	Endevco	7264C-2k	2025-10-11
Head Rotation Rate X	ARS7510	DTS	ARS PRO-8k (2kHz)	2025-10-28
Head Rotation Rate Y	ARS15060	DTS	ARS PRO-8k (2kHz)	2025-10-28
Head Rotation Rate Z	ARS19041	DTS	ARS PRO-8k (2kHz)	2025-10-28
Upper Thorax Rib Deflection Y	1219	Servo	08TCI-3725	2025-10-05
Middle Thorax Rib Deflection Y	1283	Servo	08TCI-3725	2025-10-05
Lower Thorax Rib Deflection Y	1221	Servo	08TCI-3725	2025-10-05
Upper Abdomen Rib Deflection Y	1252	Servo	08TCI-3725	2025-10-05
Lower Abdomen Rib Deflection Y	1233	Servo	08TCI-3725	2025-10-05
Lower Spine T12 Acceleration X	P52108	Endevco	7264C-2k	2025-10-04
Lower Spine T12 Acceleration Y	P63970	Endevco	7264C-2k	2025-10-04
Lower Spine T12 Acceleration Z	P51712	Endevco	7264C-2k	2025-10-04
Iliac Wing Impact Side Force Y	289 (Iliac)	R.A. Denton	3228J	2025-05-15
Acetabulum Impact Side Force Y	277 (Acetabulum)	R.A. Denton	3249J	2025-05-15

Table 3 - Vehicle Instrumentation

Sensor Location	Sensor S\N	Mfr	Model	Cal Date
Vehicle CG Ax	M14406	Endevco	7264C-2KTZ-2-360	2025-08-31
Vehicle CG Ay	M13947	Endevco	758H-2k	2025-09-20
Vehicle CG Az	M12876	Endevco	758H-2k	2025-06-11
Right Side Sill at Front Seat Ax	M14013	Endevco	7264HM6-2k-360	2025-06-30
Right Side Sill at Front Seat Ay	M14657	Endevco	7264HM6-2k-360	2025-09-20
Right Side Sill at Front Seat Az	M14060	Endevco	758HM6-2k	2025-06-20
Right Side Sill at Rear Seat Ax	M14039	Endevco	758HM6-2k	2025-06-17
Right Side Sill at Rear Seat Ay	M14057	Endevco	758HM6-2k	2025-06-22
Right Side Sill at Rear Seat Az	M14672	Endevco	7264HM6-2k-360	2025-09-14
Left Side Sill at Front Seat Ay	M13991	Endevco	758H-2k	2025-08-20
Left Side Sill at Rear Seat Ay	M14594	Endevco	7264HM6-2k-360	2025-08-31
Left Lower A-Pillar Ay	M13729	Endevco	758H-2k	2025-07-31
Left Middle A-Pillar Ay	M11052	Endevco	758H-2k	2025-07-29
Left Lower B-Pillar Ay	M13723	Endevco	758H-2k	2025-07-30
Left Middle B-Pillar Ay	M11094	Endevco	758H-2k	2025-07-25
Driver Seat Track at H-Point Ay	M14691	Endevco	7264HM6-2k-360	2025-08-20
Rear Seat Structure Ay	M11234	Endevco	758H-2k	2025-07-29
Right Rear Occupant Comp. Ay	M11058	Endevco	758H-2k	2025-07-24
Engine Block Top Ax	M14403	Endevco	7264C-2KTZ-2-360	2025-07-31
Engine Block Top Ay	M14698	Endevco	7264HM6-2k-360	2025-09-14
Rear Floopan Above Axle Ax	M14579	Endevco	7264HM6-2k-360	2025-08-22
Rear Floopan Above Axle Ay	M14702	Endevco	7264HM6-2k-360	2025-09-20
Rear Floopan Above Axle Az	M14693	Endevco	7264HM6-2k-360	2025-09-20

Table 4 - Moving Deformable Barrier (MDB) Instrumentation

Sensor Location	Sensor S\N	Mfr	Model	Cal Date
MDB CG Ax	M14016	Endevco	7264HM6-2k-360	2025-06-24
MDB CG Ay	M14032	Endevco	7264HM6-2k-360	2025-07-17
MDB CG Az	M13702	Endevco	758H-2k	2025-07-28
MDB Left Side at Rear Axle Ax	M11247	Endevco	758H-2k	2025-08-31
MDB Left Side at Rear Axle Ay	M11123	Endevco	758H-2k	2025-07-24