

Report Number: NCAP-KAR-25-003

**NEW CAR ASSESSMENT PROGRAM (NCAP)
FRONTAL BARRIER IMPACT TEST**

**AUDI AG
2025 AUDI Q6 E-TRON 5-DOOR SUV
NHTSA NUMBER: M20255800**

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



APRIL 29, 2025

FINAL REPORT

**U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF CRASHWORTHINESS STANDARDS
MAIL CODE : NRM-100
1200 NEW JERSEY AVE, SE
WASHINGTON, DC 20590**

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Approval Date: _____ April 29, 2025

FINAL REPORT ACCEPTANCE BY OCWS:

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

Date: _____

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

Date: _____

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15. Supplementary Notes																																																							
16. Abstract A 56.3 km/h NCAP Frontal Impact Test was conducted on a 2025 Audi Q6 e-tron 5-Door SUV in accordance with the specifications of the Office of Crashworthiness Standards Frontal NCAP Laboratory Test Procedure. The test was conducted at the Applus+ IDIADA KARCO Engineering, LLC. facility in Adelanto, California on April 15, 2025. The impact velocity of the vehicle was 56.48 km/h and the ambient temperature at the barrier face at the time of impact was 26.1°C. The target vehicle's post-test maximum crush was 486 mm at the vehicle's centerline. The test vehicle's performance is as follows: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Measurement Description</th> <th rowspan="2">Units</th> <th colspan="2">Driver ATD</th> <th colspan="2">Passenger ATD</th> </tr> <tr> <th>Threshold</th> <th>Result</th> <th>Threshold</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC₁₅)</td> <td>N/A</td> <td>700</td> <td>187.485</td> <td>700</td> <td>183.617</td> </tr> <tr> <td>Maximum Chest Compression</td> <td>mm</td> <td>63</td> <td>24.658</td> <td>52</td> <td>21.016</td> </tr> <tr> <td>Nij</td> <td>N/A</td> <td>1</td> <td>0.277</td> <td>1</td> <td>0.310</td> </tr> <tr> <td>Neck Tension</td> <td>N</td> <td>4170</td> <td>663.407</td> <td>2620</td> <td>810.394</td> </tr> <tr> <td>Neck Compression</td> <td>N</td> <td>4000</td> <td>317.798</td> <td>2520</td> <td>407.502</td> </tr> <tr> <td>Left Femur Force</td> <td>N</td> <td>10008</td> <td>197.324</td> <td>6805</td> <td>243.825</td> </tr> <tr> <td>Right Femur Force</td> <td>N</td> <td>10008</td> <td>183.534</td> <td>6805</td> <td>250.345</td> </tr> </tbody> </table>				Measurement Description	Units	Driver ATD		Passenger ATD		Threshold	Result	Threshold	Result	Head Injury Criteria (HIC ₁₅)	N/A	700	187.485	700	183.617	Maximum Chest Compression	mm	63	24.658	52	21.016	Nij	N/A	1	0.277	1	0.310	Neck Tension	N	4170	663.407	2620	810.394	Neck Compression	N	4000	317.798	2520	407.502	Left Femur Force	N	10008	197.324	6805	243.825	Right Femur Force	N	10008	183.534	6805	250.345
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SECTION 1

PURPOSE AND SUMMARY OF TEST

PURPOSE

This 56.3 km/h frontal barrier impact test is part of the Vehicle Barrier Impact Testing Program, sponsored by the National Highway Traffic Safety Administration (NHTSA) under contract number 693JJ919D000004. The purpose of this test was to obtain vehicle crashworthiness and occupant restraint system performance data for consumer information purposes.

The 56.3 km/h frontal barrier impact test was conducted in accordance with the Office of Crashworthiness Standards Laboratory Procedure dated May 2018 for NCAP Full Frontal Rigid Barrier Impact Testing.

SUMMARY

A load cell barrier consisting of 176 load cells was impacted by a 2025 Audi Q6 e-tron 5-Door SUV at a velocity of 56.48 km/h. The test was performed at Applus+ IDIADA KARCO Engineering, LLC. on April 15, 2025. Pre- and post-test photographs of the vehicle and dummies can be found in Appendix A of this report.

One (1) real-time camera and sixteen (16) high-speed cameras were used to document the frontal barrier impact event. Camera locations and other pertinent camera information can be found in Data Sheet 6 of this report.

One Part 572E HIII 50th percentile male anthropomorphic test device (ATD) was placed in the driver seating position and one Part 572O HIII 5th percentile female ATD was placed in the right-front passenger seating position according to dummy placement instructions specified in the Laboratory Procedure for NCAP Full Frontal Rigid Barrier Impact Testing.

Both ATDs were fully instrumented with head, chest and pelvis tri-axial accelerometers, chest displacement potentiometers, upper neck force transducers, right / left femur load cells, and lower leg instrumentation. Seat belt load cells were installed on the driver's and passenger's shoulder belts to measure dummy torso section loading.

The driver (position 1) ATD (Serial No. 360) and the right-front passenger (position 2) ATD (Serial No. DH1644) were qualified prior to this test. Certification details, along with instrumentation calibration data, are found in Appendix C of this report.

The 104 channels of dummy and vehicle response data were recorded on an on-board data acquisition system. Appendix B contains the dummy response data traces. Appendix D contains a complete list of instrumentation used for dummies and the vehicle.

There was 100 percent windshield retention and no intrusion into the protected zone of the windshield during the event. There was no electrolyte leakage after the event or during any phase of the static rollover.

The maximum static crush of the test vehicle was 486 mm at the vehicle's centerline. Both the driver and passenger side doors remained closed during the impact event and were operable after the impact.

The driver's visible contact points were as follows: the driver ATD's head contacted the frontal air bag, and headrest. The upper and lower torso contacted the frontal air bag.

The passenger's visible contact points were as follows: the passenger ATD's head contacted the frontal air bag and headrest. The upper and lower torso contacted the frontal air bag.

The occupant data is summarized below:

ATD Position	HIC ₁₅	Nij	Neck Tension (N)	Neck Comp. (N)	3ms Chest Clip (g)	Chest Disp. (mm)	Left Femur (N)	Right Femur (N)
Driver (50th Male)	187.485	0.277	663.407	317.798	38.310	24.658	197.324	183.534
Passenger (5th Female)	183.617	0.310	810.394	407.502	39.338	21.016	243.825	250.345

GENERAL COMMENTS:

None.

SECTION 2

OCCUPANT AND VEHICLE INFORMATION / DATA SHEETS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

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: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

TEST VEHICLE INFORMATION AND OPTIONS

NHTSA Number	M20255800
Model Year	2025
Make	Audi
Model	Q6 e-tron quattro
Body Style	5-Door SUV
VIN	WA114BGF0SA023736
Body Color	Magnet Gray
Odometer Reading (km / mi)	13/8
Engine Displacement (L)	N/A
Type / No. of Cylinders	N/A
Engine Placement	Dual Electric Motors
Transmission Type	Automatic
Transmission Speeds	1
Overdrive	Yes
Final Drive	AWD
Roof Rack	No
Sunroof / T-Top	No
Running Boards	No
Tilt Steering Wheel	Yes
Power Seats	Yes
Anti-Lock Brakes (ABS)	Yes
Automatic Door Locks (ADLs)	Yes

Traction Control System	Yes
Power Steering	Yes
Power Window Auto-Reverse	Yes
Driver Frontal 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	No
Front Pass. Frontal Air Bag	Yes
Front Pass. Curtain Air Bag	Yes
Front Pass. Head/Torso Air Bag	No
Front Pass. Torso Air Bag	No
Front Pass. Torso/Pelvis Air Bag	Yes
Front Pass. Pelvis Air Bag	No
Front Pass. Knee Air Bag	No
Driver Seat Belt Pretensioner	Yes
Driver Load Limiter	Yes
Front Pass. Seat Belt Pretensioner	Yes
Front Pass. Load Limiter	Yes
Other Safety Restraint	No

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

Yes; Page 25

DATA FROM CERTIFICATION LABEL

Manufactured By	Audi AG
Date of Manufacture	Dec-24

GVWR (kg)	2970
GAWR Front (kg)	1425
GAWR Rear (kg)	1655

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

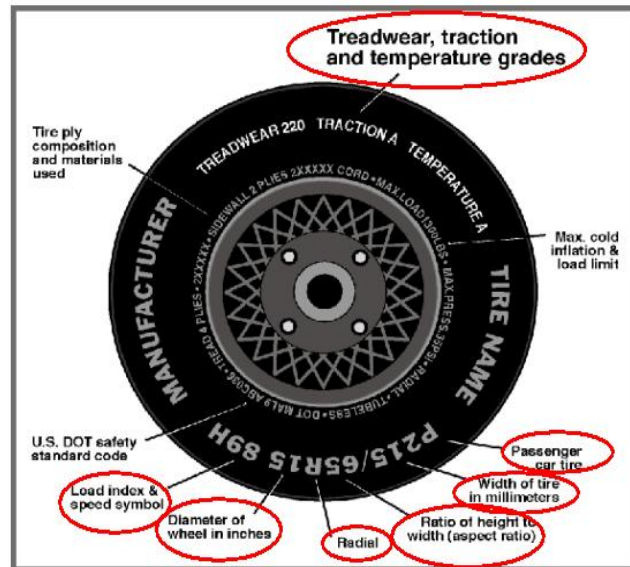
Measured Parameter	Front	Rear	Third	Total	
Type of Seats	Bucket	Split Bench			
Designated Seating Capacity	2	3		5	
Capacity Weight (VCW) (kg)				470.0	A
DSC x 68.0 (kg)				340.0	B
Cargo Weight (RCLW) (kg)				130.0	A-B

*Maximum RCLW used in testing a truck, MPV, or bus is 136 kg.

DATA SHEET NO. 1 ... (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025



VEHICLE TIRE INFORMATION

Measured Parameter	Front	Rear
Max. Tire Pressure (kPa)	340	340
Cold Pressure (kPa)	280	300
Recommended Tire Size	235/60 R19	255/55 R19
Tire Size on Vehicle	235/60 R19	255/55 R19
Tire Manufacturer	Bridgestone	Bridgestone
Tire Model	Alenza Sport A/S	Alenza Sport A/S
Treadwear	500	500
Traction	A	A
Temperature Grades	A	A
Tire Plies Sidewall	1 Rayon	2 Rayon
Tire Plies Body	1 Rayon, 2 Steel, 2 Nylon	2 Rayon, 2 Steel, 1 Nylon
Load Index / Speed Symbol	107H	111H
Tire Material	Rubber	Rubber
DOT Safety Code Left	276 1004WD 3824	276 10053M 0824
DOT Safety Code Right	276 1004WD 3824	276 10053M 0824

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

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

TEST VEHICLE WEIGHTS

	Units	As Delivered Weights (UWV)			As Tested Weights (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	579.0	595.5		649.0	695.5	
Right	kg	599.0	621.5		576.0	739.0	
Ratio	%	49.2%	50.8%	100.0%	46.1%	53.9%	100.0%
Total	kg	1178.0	1217.0	2395.0	1225.0	1434.5	2659.5

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value	
Total Delivered Weight (UWV)	kg	2395.0	A
Weight of 1 P572E ATD & 1 P572O ATD	kg	141.0	B
Rated Cargo/Luggage Weight (RCLW)	kg	130.0	C
Calculated Vehicle Target Weight (TVTW)	kg	2666.0	A+B+C

TEST VEHICLE ATTITUDES

Condition	Units	LF	RF	LR	RR	CG Aft of Front Axle
As Delivered	mm	850	850	830	833	1467
As Tested	mm	846	854	835	842	1557
Post-Test	mm	825	845	837	837	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Total Vehicle Wheelbase	mm	2887
Total Vehicle Length at Left Side	mm	4549
Total Vehicle Length at Centerline	mm	4775
Total Vehicle Length at Right Side	mm	4549
Weight of Ballast in Cargo Area	kg	50.0
Weight of Vehicle Components Removed	kg	4.0
Amount of Stoddard Solvent in Fuel Tank	L	N/A

VEHICLE COMPONENTS REMOVED TO MEET TEST WEIGHT:

Rear trim (4.0 kg) removed.

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

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

TARGET VEHICLE STRUCTURAL MEASUREMENTS

No.	Description	Pre-Test
1	Total Length	4775
2	Total Width	1942
3	Bumper Top Height	647
4	Bumper Bottom Height	531
5	Longitudinal Member Top Height	210
6	Distance Between Longitudinal Members	773
7	Longitudinal Member Width	90
8	Engine Top Height	964
9	Engine Bottom Height	287
10	Engine and Gearbox Width	397
11	Front Bumper to Engine Distance	419
12	Front Shock Absorber Fixing Height	987
13	Bonnet Leading Edge Height	915
14	Front Shock Absorber Fixing Width	1435
15	Front Bumper to Front Axle Distance	898
16	Front Axle to A-Pillar Distance	725
17	A-Pillar to B-Pillar Distance	960
18	B-Pillar to Rear Axle Distance	1202
19	B-Pillar to C-Pillar Distance	961
20	Roof Sill Bottom Height	1552
21	Roof Sill Top Height	1692
22	Floor Sill Bottom Height	465
23	Floor Sill Top Height	598

*All measurements in millimeters.

DATA SHEET NO. 2

SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV

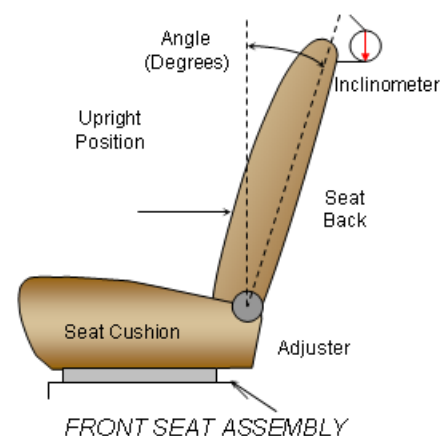
NHTSA No.: M20255800

Test Program: 56.3 km/h Frontal Impact NCAP Test

Test Date: 4/15/2025

NOMINAL DESIGN RIDING POSITION

The procedure for the driver is as follows: the seat back is set to the manufacturer's designated angle. The procedure for the passenger is as follows: the seat back is set to position the transverse instrumentation platform of the dummy's head at $0^{\circ} \pm 0.5^{\circ}$. Seat back angle is measured at the headrest post.

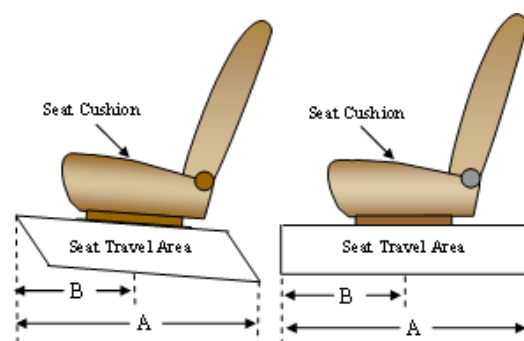


SEAT BACK ANGLE

Seating Position	Degrees
Driver Seat Back Angle	18.5
Passenger Seat Back Angle	17.5

SEAT FORE / AFT POSITIONING

The total seat travel is measured from the forward most possible position to the rear most possible position. The driver's seat is set to the middle of the fore-aft travel. The passenger's seat is set to the forward most position where the ATD will not contact any interior panels.



SEAT FORE/AFT POSITIONS

Seating Position	Total Fore-Aft Travel	Placed in Position
Driver Seat	308	154
Passenger Seat	320	0

SEAT BELT UPPER ANCHORAGE

The seat belt upper anchorage is positioned to the manufacturer's design position for a 50th percentile adult male ATD for the driver, and a 5th percentile adult female ATD for the passenger. Position "L" is the lowermost position, followed by position "M1". Position "H" is the uppermost position.

SEAT BELT UPPER ANCHORAGES

Seating Position	Total No. of Positions	Placed in Position
Driver Seat	4	H
Passenger Seat	4	H

DATA SHEET NO. 2 ... (CONTINUED)

SEAT ADJUSTMENT, FUEL SYSTEM, AND STEERING WHEEL DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV

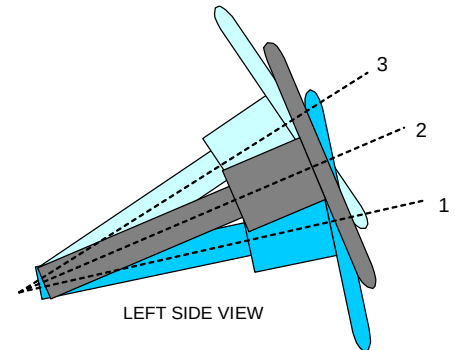
NHTSA No.: M20255800

Test Program: 56.3 km/h Frontal Impact NCAP Test

Test Date: 4/15/2025

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes when moved through its full range of motion. A digital inclinometer is used to measure a plate which is placed across the rim of the steering wheel for angular measurements.



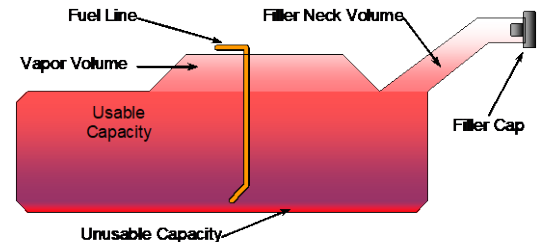
STEERING COLUMN ASSEMBLY

STEERING COLUMN POSITIONING

	Degrees	Fore-Aft Position (mm)
Lowermost Position, No. 1	20.1	167
Geometric Center Position, No. 2	22.4	197
Uppermost Position, No. 3	24.7	227
Telescoping Steering Wheel Travel		60
Test Position	22.4	197

FUEL PUMP

The vehicle is an electric vehicle, does not have a fuel pump.



VEHICLE FUEL TANK ASSEMBLY

FUEL TANK CAPACITY

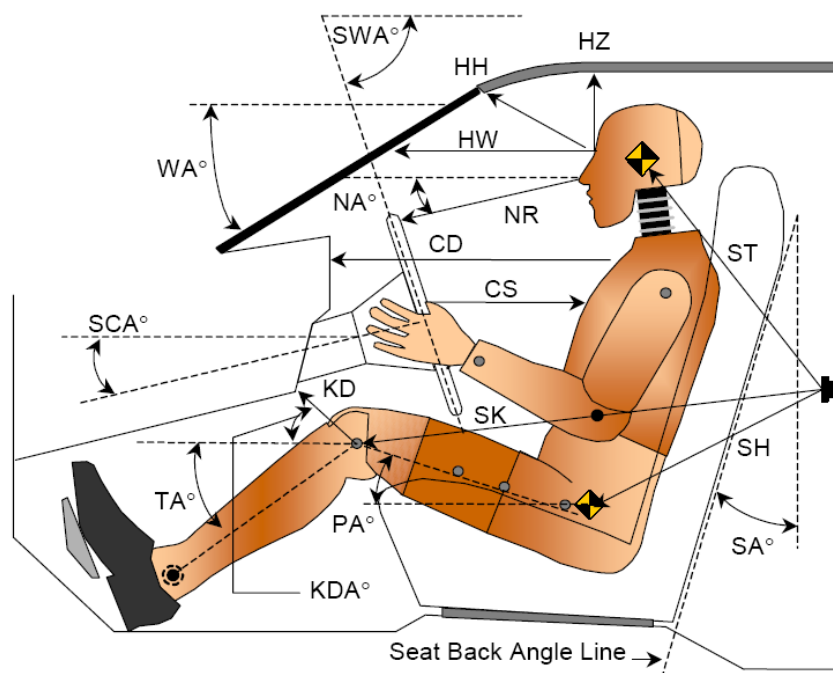
Description	Liters
Usable Capacity of "Standard Tank" (see Form No. 1)	
Usable Capacity of "Optional Tank" (see Form No. 1)	
Usable Capacity of "Standard Tank" (see Owner's Manual)	
Usable Capacity of "Optional Tank" (see Owner's Manual)	
93% of Usable Capacity	
Actual Amount of Solvent Used in Test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

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

DATA SHEET NO. 3

DUMMY LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025



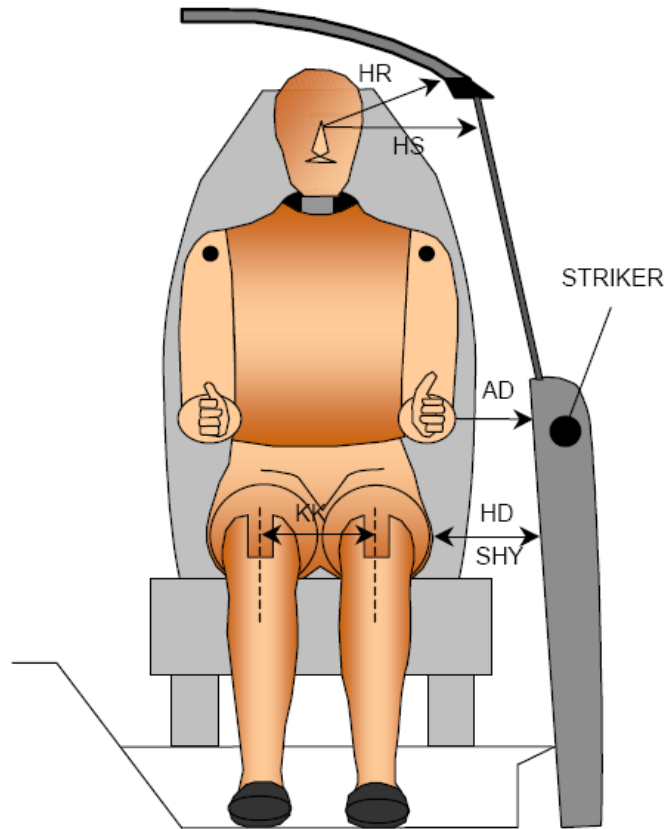
LEFT SIDE VIEW

Code	Measurement Description	Driver		Passenger	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA°	Windshield Angle		29.8		
SWA°	Steering Wheel Angle		64.8		
SCA°	Steering Column Angle		25.2		
SA°	Seat Back Angle (On headrest post)		18.5		17.5
HZ	Head to Roof	257	90.0	260	90.0
HH	Head to Header	404	26.7	355	42.5
HW	Head to Windshield	727	0.0	702	0.0
NR	Nose to Rim	834	8.5	433	16.2
CD	Chest to Dash	607	0.0	328	1.4
CS	Chest to Steering Hub	306	0.0		
RA	Rim to Abdomen	210	0.0		
KDL	Left Knee to Dash	251	21.8	130	32.9
KDR	Right Knee to Dash	232	29.4	14	23.2
PA°	Pelvic Angle		20.4		19.5
TA°	Tibia Angle		35.1		63.5
SK	Striker to Knee	670	10.2	754	7.4
ST	Striker to Head	579	77.1	572	63.2
SH	Striker to H-Point	335	50.0	419	27.7

DATA SHEET NO. 4

DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

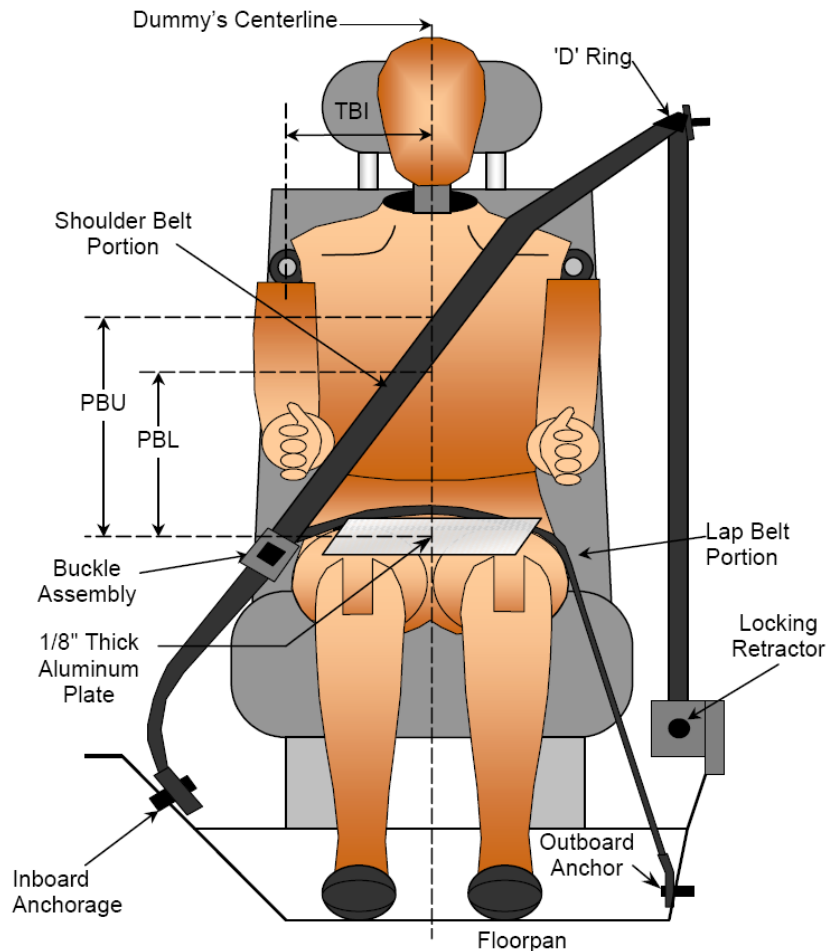


Code	Description	Driver (mm)	Passenger (mm)
AD	Arm to Door	140	87
HD	H-Point to Door	194	200
HR	Head to Side Header	308	318
HS	Head to Side Window	373	400
KK	Knee to Knee	305	170
AA	Ankle to Ankle	320	175

DATA SHEET NO. 5

SEAT BELT POSITIONING DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025



FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

Code	Measurement Description	Units	Driver	Passenger
PBU	Top Surface of Aluminum Plate to Belt Upper Edge	mm	345	305
PBL	Top Surface of Aluminum Plate to Belt Lower Edge	mm	250	220

BELT LENGTH DATA

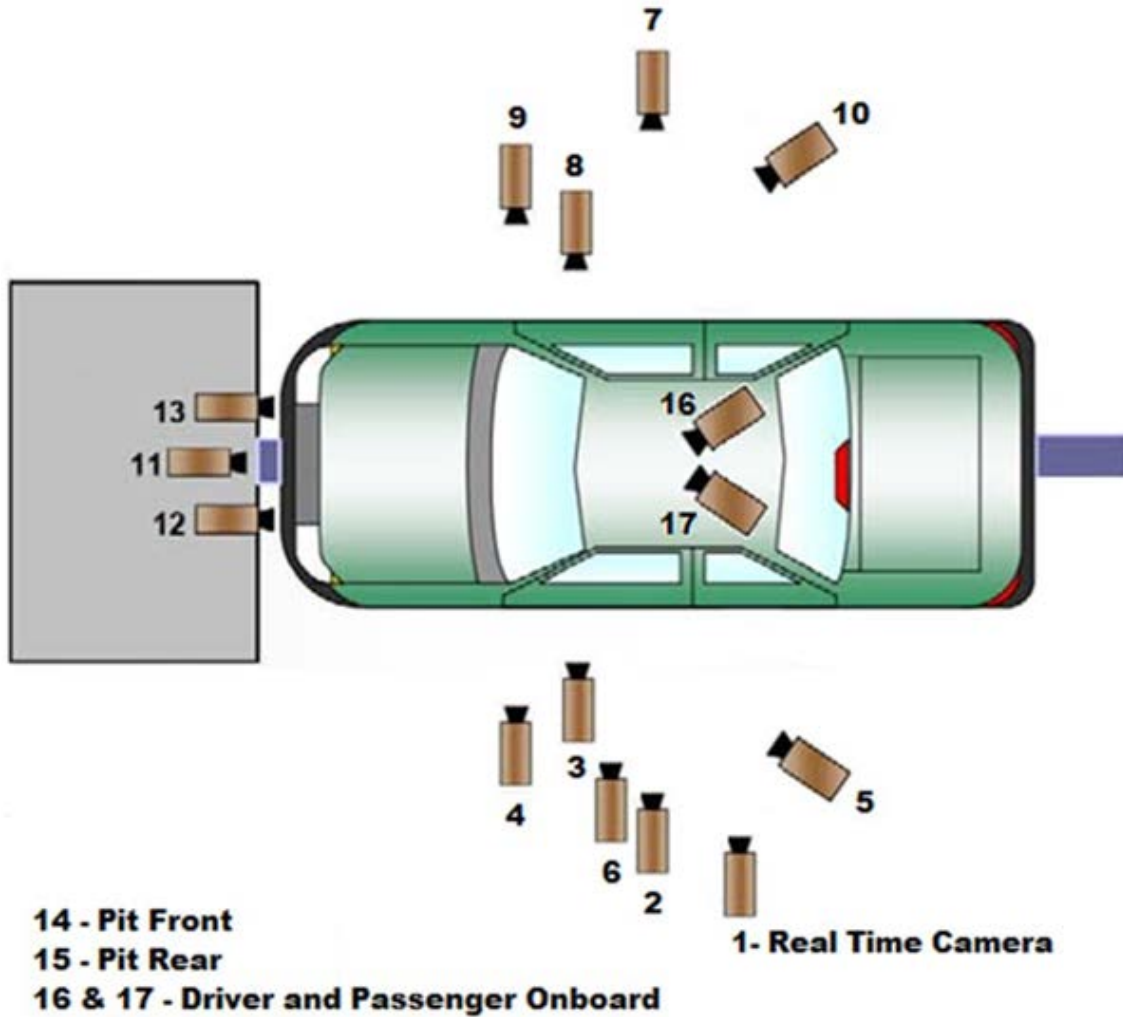
Measurement Description	Units	Driver	Passenger
Shoulder Belt Length as Measured on ATD	mm	970	993
Lap Belt Length as Measured on ATD	mm	510	395
Remainder of Belt on Reel	mm	760	830
Total Belt Length for Continuous Webbing Systems	mm	2240	2218

DATA SHEET NO. 6

HIGH-SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

CAMERA POSITIONS FOR FRONTAL IMPACTS



***Camera locations are approximate and not to scale*

DATA SHEET NO. 6 ... (CONTINUED)

HIGH-SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

CAMERA LOCATIONS

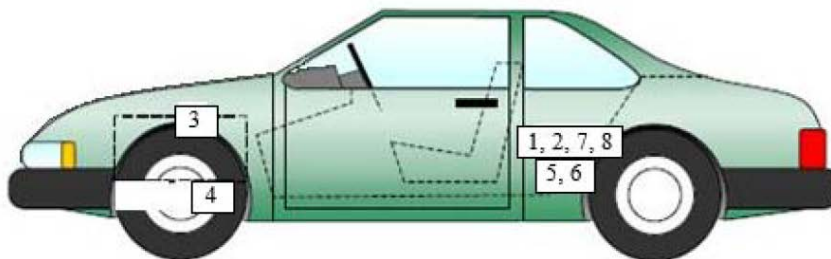
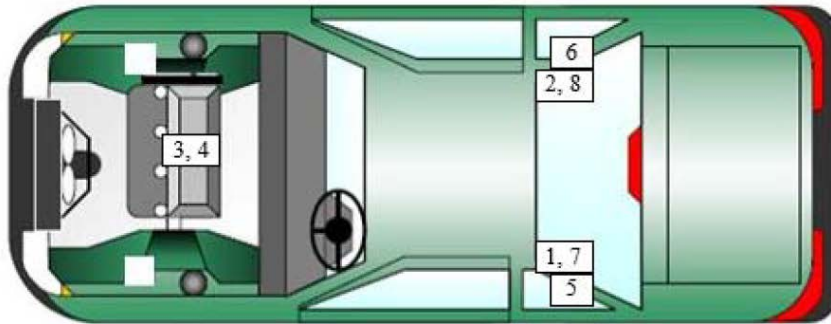
No.	Description	Location (mm)			Lens (mm)	Speed (fps)
		X	Y	Z		
1	Real-Time Left Overall	-11412	-8150	-1484		30
2	Left Overall	-2456	-7975	-1025	20	1000
3	Driver Close-Up	-2590	-7950	-1371	50	1000
4	Left Front Half	-1701	-6197	-1701	35	1000
5	Left Angle	-6696	-10308	-3211	105	1000
6	Steering Column	-1966	-10412	-3688	35	1000
7	Right Overall	-2336	7569	-1012	20	1000
8	Passenger Close-Up	-1733	7581	-1408	50	1000
9	Right Front Half	-1600	8214	-1811	35	1000
10	Right Angle	-6217	9516	-4830	85	1000
11	Windshield	-354	0	-5749	28	1000
12	Driver Windshield	297	-366	-2460	24	1000
13	Passenger Windshield	297	366	-2460	24	1000
14	Pit Front	-756	0	1495	21	1000
15	Pit Rear	-3398	0	1495	15	1000
16	Driver Onboard	-1250	-275	-1510	8	1000
17	Passenger Onboard	-1250	275	-1510	8	1000

Coordinates: +X = forward impact plane
 +Y = right of monorail center
 +Z = into ground

DATA SHEET NO. 7

VEHICLE ACCELEROMETER LOCATIONS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025



VEHICLE ACCELEROMETER PRE-TEST LOCATIONS

No.	Description	Location		
		X	Y	Z
1	Left Rear Accelerometer X-Direction	1602	730	470
2	Right Rear Accelerometer X-Direction	1600	730	470
3	Engine Top X	3600	0	842
4	Engine Bottom X	3790	0	291
5	Left Rear Accelerometer Z-Direction	1602	730	470
6	Right Rear Accelerometer Z-Direction	1600	730	470
7	Left Rear Accelerometer X-Direction Redundant	1602	730	470
8	Right Rear Accelerometer X-Direction Redundant	1600	730	470

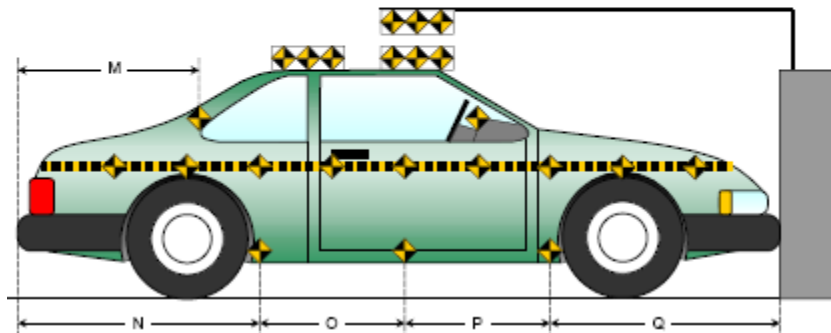
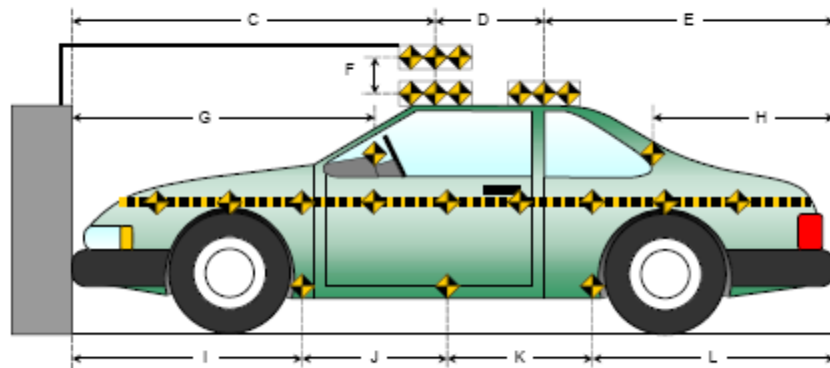
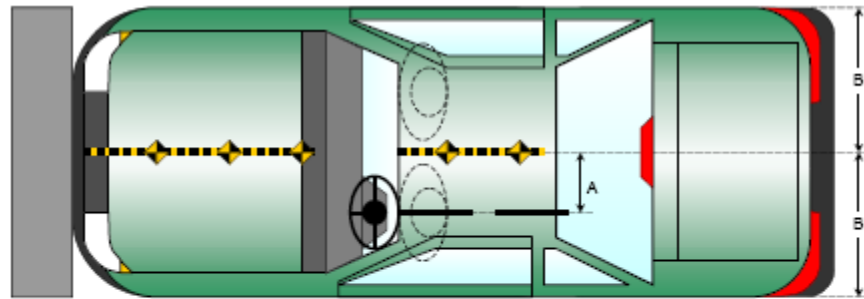
Reference Points: X – Rear Surface of Vehicle (+ forward)
 Y – Vehicle Centerline (+ to right)
 Z – Ground Plane (+ down)

DATA SHEET NO. 8

PHOTOGRAPHIC REFERENCE TARGET LOCATIONS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

Item	Value
A	395
B	971
C	2408
D	592
E	1775
F	297
G	1907
H	586
I	1502
J	949
K	928
L	1396
M	586
N	1396
O	928
P	949
Q	1502

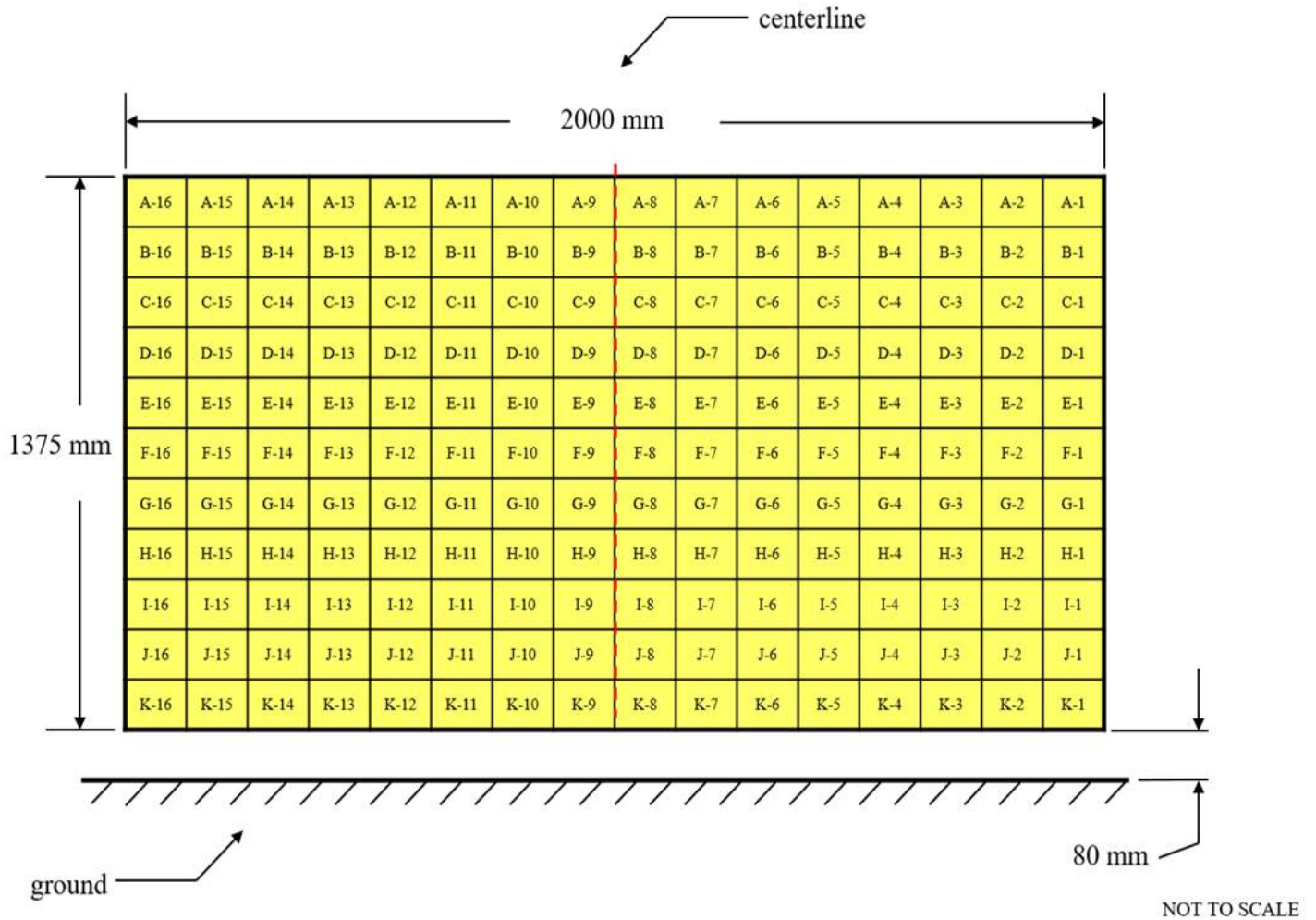


*All measurements in millimeters.

DATA SHEET NO. 9

LOAD CELL LOCATIONS ON FIXED BARRIER

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025



DATA SHEET NO. 10**TEST VEHICLE SUMMARY OF RESULTS**

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

INSTRUMENTATION

Driver Dummy Sensors	47
Passenger Dummy Sensors	47
Vehicle Structure Accelerometers	8
Seat Belt Load Cells	2
Load Cell Barrier	528
Total	632

CAMERA COVERAGE

High-Speed Vehicle On Board	2
High-Speed Off Board	14
Real Time	1
Total	17

DATA SHEET NO. 11
POST-TEST OBSERVATIONS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

TEST DUMMY INFORMATION AND CONTACT LOCATIONS

Description	Driver	Passenger
Dummy Type/Serial No.	HIII 50th Percentile Male ATD / 360	HIII 5th Percentile Female ATD / DH1644
Head Contact	Frontal Air Bag, Headrest	Frontal Air Bag, Headrest
Upper Torso Contact	Frontal Air Bag	Frontal Air Bag
Lower Torso Contact	Frontal Air Bag	Frontal Air Bag
Left Knee Contact	None	None
Right Knee Contact	None	None

DOOR OPENING, TRUNK OPENING, AND SEAT TRACK INFORMATION

Description	Driver	Passenger
Locked / Unlocked Doors	Unlocked	Unlocked
Front Door Opening	Remained closed, latched, and operational	Remained closed, latched, and operational
Rear Door Opening	Remained closed, latched, and operational	Remained closed, latched, and operational
Trunk/Hatch/Tailgate Opening	Remained closed, latched, and operational	Remained closed, latched, and operational
Seat Track Shift (mm)	N/A	N/A
Seat Back Movement from Initial Position	None	None

OTHER VEHICLE POST-TEST OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Windshield Damage	None
Window Damage	None
Other Notable Effects	None

VEHICLE REBOUND FROM BARRIER

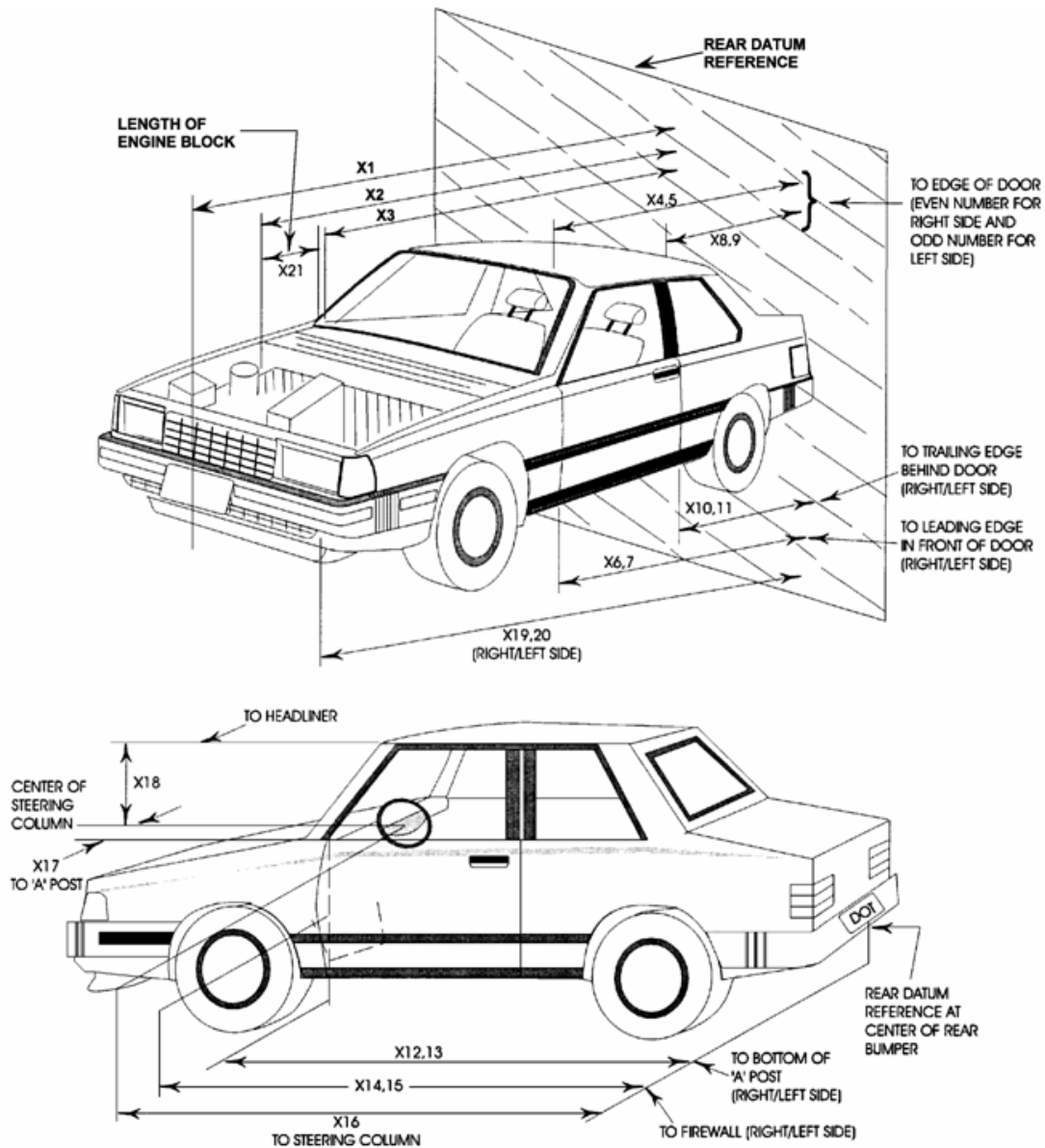
Measured Parameter	Units	Value
Left Side	mm	1165
Center	mm	728
Right Side	mm	1150
Average	mm	1014

SUPPLEMENTAL RESTRAINT SYSTEM INFORMATION

Restraint Type	Driver		Passenger	
	Installed	Operated	Installed	Operated
Front Air Bag	Yes	Yes	Yes	Yes
Side Air Bag 1 (Curtain)	Yes	Yes	Yes	Yes
Side Air Bag 2 (Torso/Pelvis)	Yes	No	Yes	No
Knee Air Bag	No		No	
Seat Belt Pretensioner	Yes	Yes	Yes	Yes
Seat Belt Load Limiter	Yes	Yes	Yes	Yes

DATA SHEET NO. 12
VEHICLE PROFILE MEASUREMENTS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

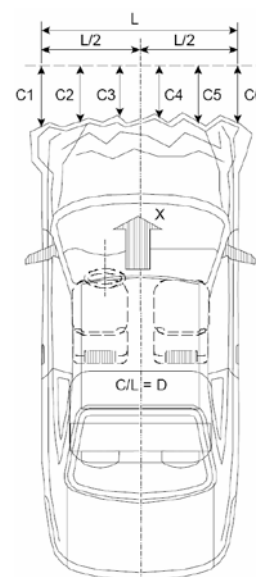


DATA SHEET NO. 12 ... (CONTINUED)**VEHICLE PROFILE MEASUREMENTS**

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

No.	Description	Pre-Test	Post-Test	Change
1	Total Length of Vehicle at Centerline	4775	4289	-486
2	Rear Surface of Vehicle to Front of Engine	3029	2629	-400
3	RSOV to Firewall	3492	3457	-35
4	RSOV to Upper Leading Edge of Right Door	3264	3252	-12
5	RSOV to Upper Leading Edge of Left Door	3264	3271	7
6	RSOV to Lower Leading Edge of Right Door	3278	3276	-2
7	RSOV to Lower Leading Edge of Left Door	3278	3284	6
8	RSOV to Upper Trailing Edge of Right Door	2103	2104	1
9	RSOV to Upper Trailing Edge of Left Door	2103	2109	6
10	RSOV to Lower Trailing Edge of Right Door	2173	2174	1
11	RSOV to Lower Trailing Edge of Left Door	2173	2184	11
12	RSOV to Bottom of A-Pillar, Right Side	3144	3142	-2
13	RSOV to Bottom of A-Pillar, Left Side	3145	3146	1
14	RSOV to Firewall, Right Side	3492	3457	-35
15	RSOV to Firewall, Left Side	3492	3492	0
16	RSOV to Steering Column	2712	2786	74
17	Center of Steering Column to A-Pillar	433	360	-73
18	Center of Steering Column to Headliner	559	581	22
19	RSOV to Right Side of Front Bumper	4510	4250	-260
20	RSOV to Left Side of Front Bumper	4510	4236	-274
21	Length of Engine Block	369	380	11
RD	RSOV to Right Side of Dash Panel	2925	2936	11
CD	RSOV to Center of Dash Panel	2879	2888	9
LD	RSOV to Left Side of Dash Panel	2924	2947	23

All measurements in millimeters.

DATA SHEET NO. 13**ACCIDENT INVESTIGATION DIVISION DATA**Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUVNHTSA No.: M20255800Test Program: 56.3 km/h Frontal Impact NCAP TestTest Date: 4/15/2025**VEHICLE INFORMATION**VIN: WA114BGF0SA023736Vehicle Size Category: SUVWheelbase (mm): 2887Test Weight (kg): 2659.5**ACCELEROMETER DATA**Accelerometer Locations: Left Rear CrossmemberCal. Procedure/Interval: Vibration Test / 6 monthsIntegration Algorithm: NHTSA StandardImpact Velocity (km/h): 56.48Velocity Change (km/h): 64.8Time of Separation (msec): 77.3Linearity: Good**CRUSH PROFILE**

Collision Deformation Classification:

12FDEW3

Midpoint of Damage:

Vehicle Centerline

Damage Region Length (mm):

1140

Impact Mode:

Full Frontal

No.	Measurement Description	Units	Pre-Test	Post-Test	Crush
C1	Crush Zone 1 at Left Side	mm	2317	2042	275
C2	Crush Zone 2 at Left Side	mm	2499	2091	408
C3	Crush Zone 3 at Left Side	mm	2574	2091	483
C4	Crush Zone 4 at Right Side	mm	2555	2114	441
C5	Crush Zone 5 at Right Side	mm	2477	2102	375
C6	Crush Zone 6 at Right Side	mm	2317	2056	261
L	C1 to C6	mm	1140		

DATA SHEET NO. 14

VEHICLE INTRUSION MEASUREMENTS

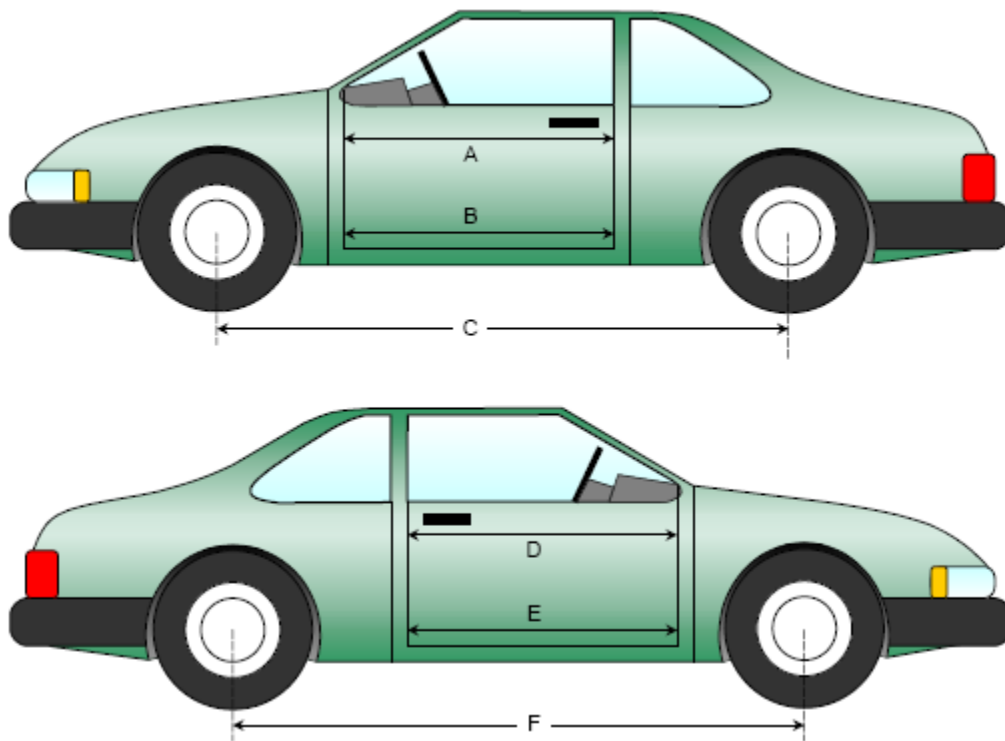
Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

DOOR OPENING WIDTH

Item	Description	Units	Pre-Test	Post-Test	Change
A	Left Side Upper	mm	1161	1161	0
B	Left Side Lower	mm	1105	1100	-5
D	Right Side Upper	mm	1161	1148	-13
E	Right Side Lower	mm	1105	1103	-2

WHEELBASE MEASUREMENTS

Item	Description	Units	Pre-Test	Post-Test	Change
C	Left Side Wheelbase	mm	2887	2747	-140
F	Right Side Wheelbase	mm	2887	2765	-122



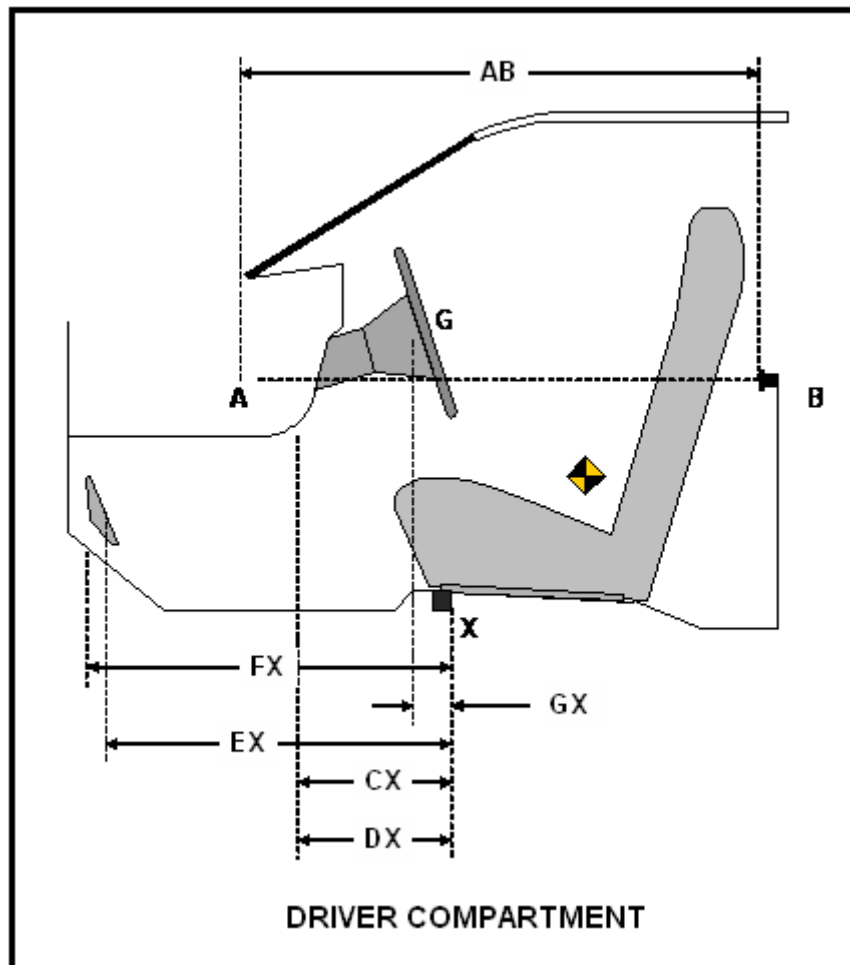
DATA SHEET NO. 14 ... (CONTINUED)
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

DRIVER COMPARTMENT INTRUSION

Item	Description	Units	Pre-Test	Post-Test	Change
AB	Door Opening (Inside Window Jam)	mm	965	966	1
CX	Left Knee Bolster to X	mm	280	279	-1
DX	Right Knee Bolster to X	mm	291	295	4
EX	Brake Pedal to X	mm	554	541	-13
FX	Foot Rest to X	mm	606	602	-4
GX	Center of Steering Wheel Hub to X	mm	50	120	70

X = Front of Seat Track (Stationary)



DATA SHEET NO. 15

SUMMARY OF INDICANT FMVSS 212 AND 219 (PARTIAL) DATA

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

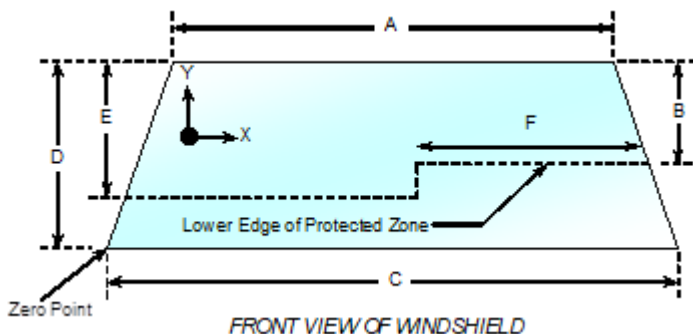
Windshield Mounting Details: Windshield glass is secured to the vehicle frame with an adhesive and rubber molding.

The standard requires that the post-test retention measurement be a minimum of 75% of the pre-test total periphery measurement for vehicles not equipped with occupant passive restraints and 50% for each side of the windshield for vehicles which are equipped with occupant passive restraints.

Temperature of windshield molding during test: 26.1 °C

WINDSHIELD PERIPHERY MEASUREMENTS

Measurement	Pre-Test (mm)	Post-Test (mm)	% Retention
Left Side	1985	1985	100.0%
Right Side	1985	1985	100.0%
Total	3970	3970	100.0%



Item	Units	Value
A	mm	1240
B	mm	465
C	mm	1430
D	mm	650
E	mm	475
F	mm	320

AREAS OF PROTECTED ZONE FAILURES

- A. Provide Coordinates of the area that the protected zone was penetrated more than 0.25 inches by a vehicle component other than one that is normally in contact with the windshield.

X	Y

- B. Provide coordinates of the area beneath the protected zone that the inner surface of the windshield was penetrated by a vehicle component.

X	Y

DATA SHEET NO. 16

FMVSS 301 BARRIER IMPACT AND STATIC ROLLOVER RESULTS

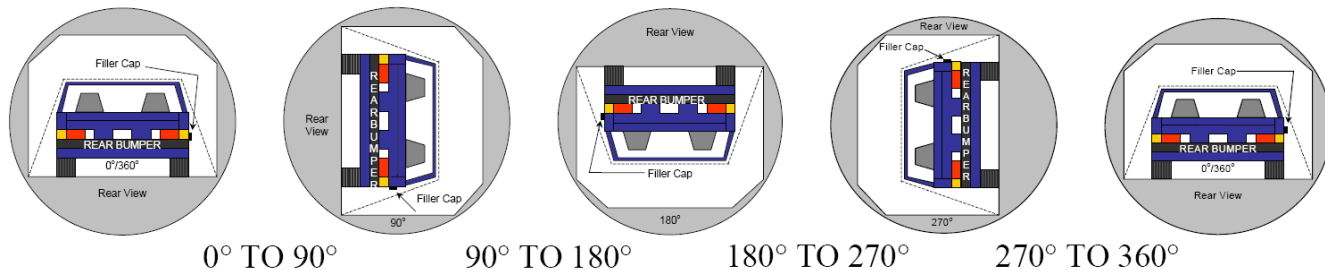
Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Temperature at Time of Impact: 26.1°C Test Time: 4:00 PM

Stoddard Solvent Spillage Measurements

- 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: _____



1. The specified fixture rollover rate for each 90° of rotation is 60 to 180 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard solvent spillage: N/A

SOLVENT COLLECTION TIME TABLE IN SECONDS

Test Phase	Rotation Time	Hold Time	Total Time
0° To 90°			
90° To 180°			
180° To 270°			
270° To 360°			

DATA SHEET NO. 16 ... (CONTINUED)**FMVSS 301 BARRIER IMPACT AND STATIC ROLLOVER RESULTS**Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025**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. 17

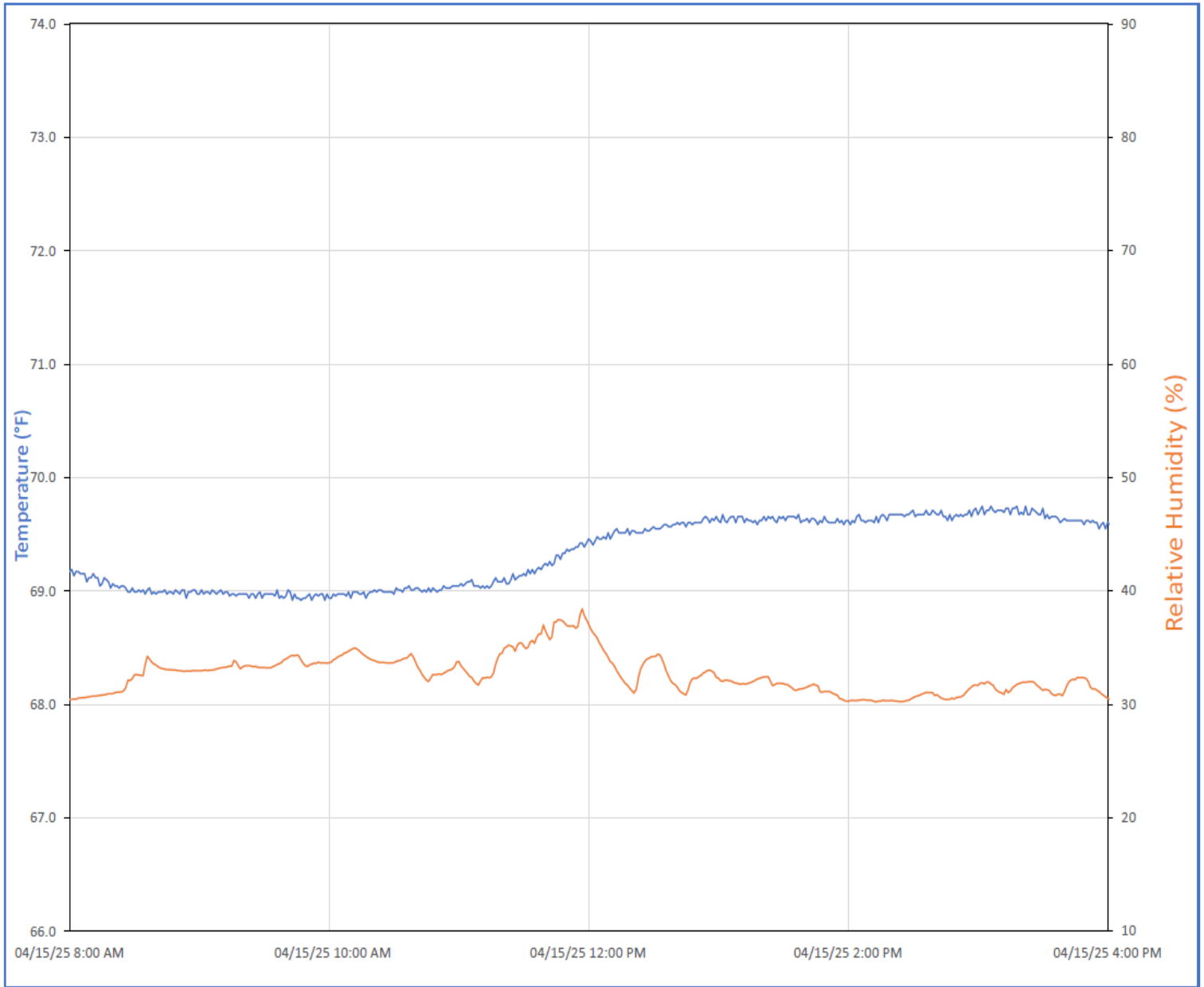
DUMMY / VEHICLE TEMPERATURE STABILIZATION CHART

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV

NHTSA No.: M20255800

Test Program: 56.3 km/h Frontal Impact NCAP Test

Test Date: 4/15/2025



DATA SHEET NO. 305-1**GENERAL TEST AND VEHICLE PARAMETER DATA FOR INDICANT FMVSS NO. 305****TESTING**Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025**TEST VEHICLE INFORMATION**

NHTSA Number	M20255800
Model Year	2025
Make	Audi
Model	Q6 e-tron
Body Style	5-Door SUV
Body Color	Magnet Gray
Odometer Reading (km / mi)	13/8

DATA FROM VEHICLE'S CERTIFICATION LABEL

Manufactured By	Audi AG
Date of Manufacture	Dec-24
VIN	WA114BGF0SA023736
GVWR (kg)	2970

ELECTRIC VEHICLE PROPULSION SYSTEM

Type of Electrical Vehicle	Electric
Propulsion Battery Type	Lithium Ion
Nominal Voltage (V)	662
Automatic Propulsion Battery Disconnect	Yes
Physical Location of Automatic Propulsion Battery Disconnect	Switching Unit
Auxiliary Battery Type	12-Volt Lead-Acid Battery

PROPULSION BATTERY SYSTEM DATA

Electrolyte Fluid Type	EMC 623-53-0, EC 96-49-1, Other Additives and Lithium Salts
Electrolyte Fluid Specific Gravity (g/cm ³)	EMC: 1.013 at 20 °C, EC: 1.32 at 39 °C
Electrolyte Fluid Kinematic Viscosity (mm ² /s)	EMC: 0.69 at 20 °C, EC: 1.92 mPa
Electrolyte Fluid Color	None
Propulsion Battery Coolant Type	R1234YF
Propulsion Battery Coolant Color	Pink
Propulsion Battery Coolant Specific Gravity	

LOCATION OF BATTERY MODULES

Location	Outside Passenger Compartment
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DATA SHEET NO. 305-1...(CONTINUED)**GENERAL TEST AND VEHICLE PARAMETER DATA FOR INDICANT FMVSS NO. 305****TESTING**Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025*For all battery types:*

Description	Volts
Minimum Operating Voltage	
Maximum Operating Voltage	749
95% of Maximum Operating Voltage	712
Test Voltage (no less than 95% of Maximum)*	742

*Minimum operating voltage not defined

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: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

VEHICLE CHASSIS GROUND POINT(S) LOCATION(S)

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

The FMVSS 305 chassis ground points are located at the rear (trunk) of the vehicle. Can also use chassis ground points of the 12V system and also bolts of the vehicle's body.

PROPULSION BATTERY SYSTEM

DETAILS OF PROPULSION BATTERY COMPONENTS:

A high voltage measuring adapter was provided. This was situated at the connection of the high-voltage heater (HV-PTC), which is located at the footwell of the passenger side. The leads were attached with banana plugs into the HV+, HV-, and Ground interfaces of the HV measuring adapter.

DATA SHEET NO. 305-3**PRE-IMPACT ELECTRICAL ISOLATION MEASUREMENTS AND CALCULATIONS FOR
INDICANT FMVSS NO. 305 TESTING**Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025**VOLTMETER INFORMATION**

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

HV BATTERY ELECTRICAL ISOLATION DATA

Code	Units	Threshold	Pre-Test
V_b	V		677
V_1	V		321
V_2	V		339
R_o	Ω		701,000
V_1'	V		188
V_2'	V		174
R_{i1}	Ω		1,019,649
R_{i2}	Ω		1,294,187
R_i	Ω		1,019,649
R_i/V_b	Ω/V	500	1,506

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: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025**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		0.099
V_1	V		0.004
V_2	V		0.009
R_o	Ω		701,000
V_1'	V		0.002
V_2'	V		0.000
R_{i1}	Ω		2,278,250
R_{i2}	Ω		"Zero Volts"
R_i	Ω		"Zero Volts"
R_i/V_b	Ω/V	500	"Zero Volts"

* "Zero Volts" is considered as being compliant.

Is the Measured Electrical Isolation Value $\geq 500 \Omega/V$?	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?

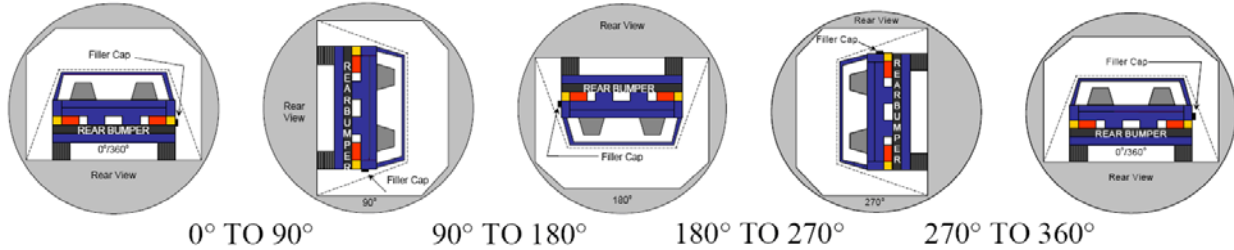
No

DATA SHEET NO. 305-5

STATIC ROLLOVER TEST DATA FOR INDICANT FMVSS NO. 305 TESTING

Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800

Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025



PROPULSION BATTERY ELECTROLYTE COLLECTION TIME PERIOD

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

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: 2025 Audi Q6 e-tron 5-Door SUV NHTSA No.: M20255800
 Test Program: 56.3 km/h Frontal Impact NCAP Test Test Date: 4/15/2025

VOLTMETER INFORMATION

Make	Fluke
Model	87V MAX
Serial No.	50790043
Internal Impedence Value	50 MΩ
Nominal Propulsion Battery Voltage (Vb)	0.001

HV BATTERY ELECTRICAL ISOLATION MEASUREMENTS AND CALCULATIONS

Code	Units	Threshold	0°	90°	180°	270°	360°
V _b	V		0.004	0.004	0.007	0.004	0.005
V ₁	V		0.001	0.003	0.005	0.003	0.003
V ₂	V		0.010	0.002	0.005	0.002	0.004
R _o	Ω		701,000	701,000	701,000	701,000	701,000
V ₁ '	V		0.000	0.001	0.002	0.001	0.001
V ₂ '	V		0.004	0.000	0.000	0.000	0.000
R _{i1}	Ω		"Zero Volts"	2,336,667	2,103,000	2,336,667	3,271,333
R _{i2}	Ω		1,156,650	"Zero Volts"	"Zero Volts"	"Zero Volts"	"Zero Volts"
R _i	Ω		"Zero Volts"	"Zero Volts"	"Zero Volts"	"Zero Volts"	"Zero Volts"
R _i /V _b	Ω/V	500	"Zero Volts"	"Zero Volts"	"Zero Volts"	"Zero Volts"	"Zero Volts"

* "Zero Volts" is considered as being compliant.

Is the Measured Electrical Isolation Value ≥ 500 Ω/V?	Yes
Is V ₁ , V ₂ , and V _b ≤ 60 VDC?	Yes

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION

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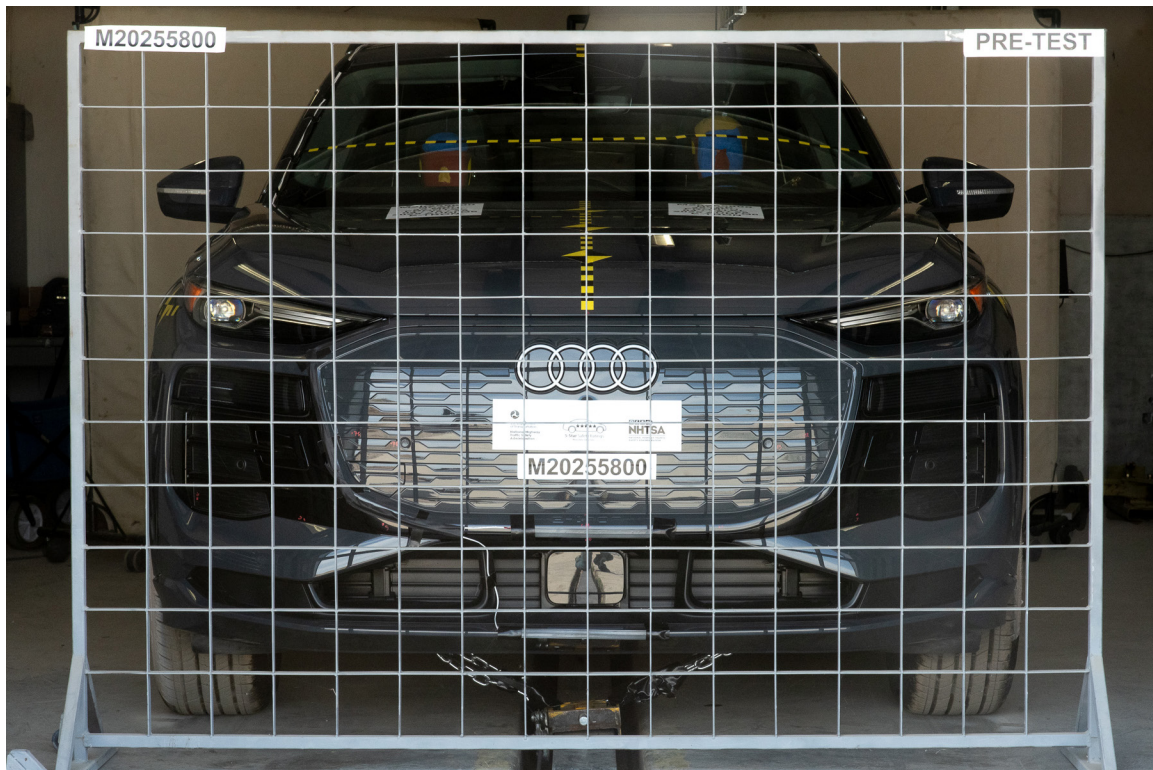


FIGURE 1. Load Cell Location

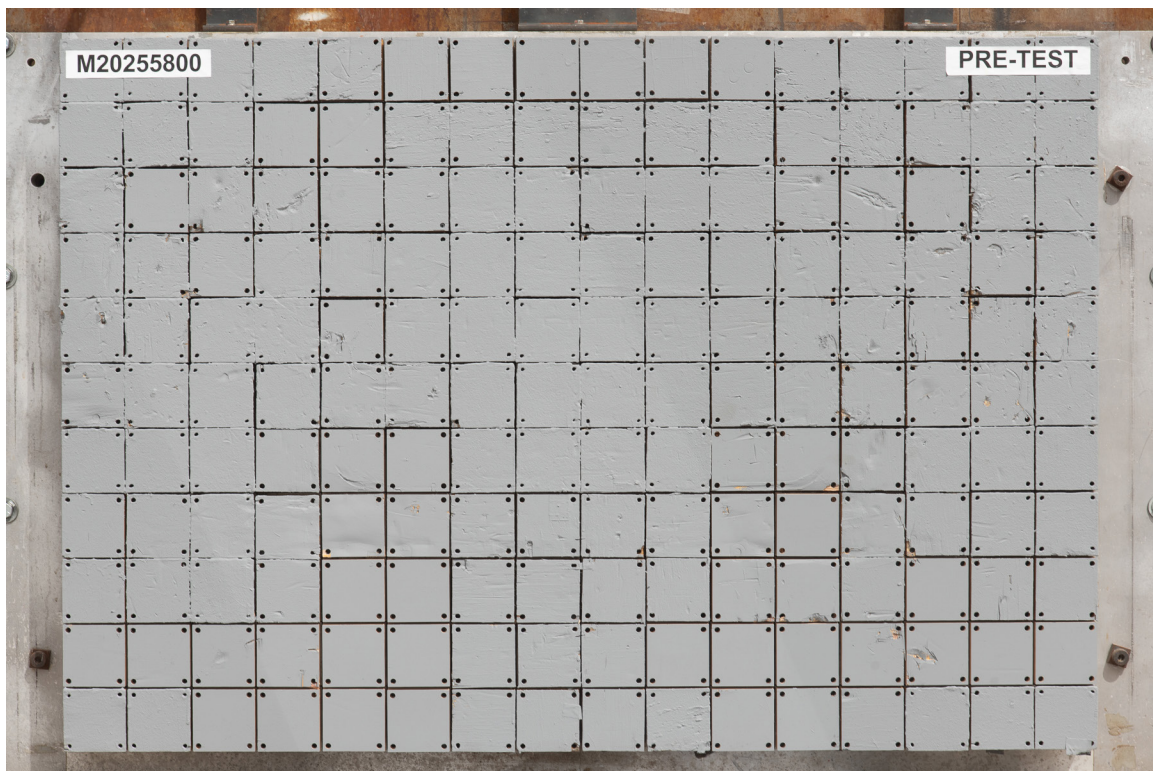


FIGURE 2. Pre-Test Load Cell Wall

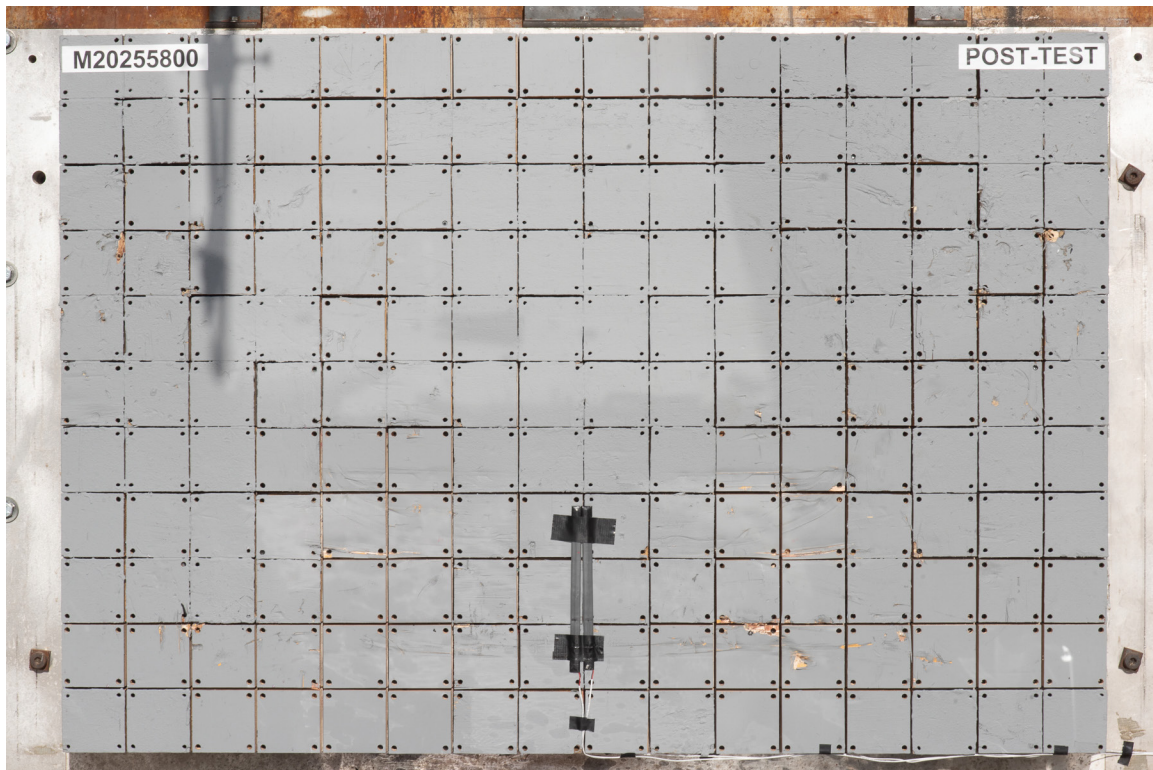


FIGURE 3. Post-Test Load Cell Wall



FIGURE 4. Manufacturer's Label



FIGURE 5. Tire Placard



FIGURE 6. 2025 Audi Q6 e-tron Frontal As Delivered



FIGURE 7. Left Rear 3/4 View, As Received



FIGURE 8. Pre-Test Front View of Test Vehicle



FIGURE 9. Post-Test Front View of Test Vehicle



FIGURE 10. Pre-Test Left View of Test Vehicle



FIGURE 11. Post-Test Left View of Test Vehicle



FIGURE 12. Pre-Test Right View of Test Vehicle



FIGURE 13. Post-Test Right Vehicle of Test Vehicle



FIGURE 14. Pre-Test Right Front 3/4 View



FIGURE 15. Post-Test Right Front 3/4 View



FIGURE 16. Pre-Test Left Rear 3/4 View



FIGURE 17. Post-Test Left Rear 3/4 View



FIGURE 18. Pre-Test Windshield View



FIGURE 19. Post-Test Windshield View



FIGURE 20. Pre-Test Engine Compartment View



FIGURE 21. Post-Test Engine Compartment View



FIGURE 22. Pre-Test Fuel Filler Cap View



FIGURE 23. Post-Test Fuel Filler Cap View

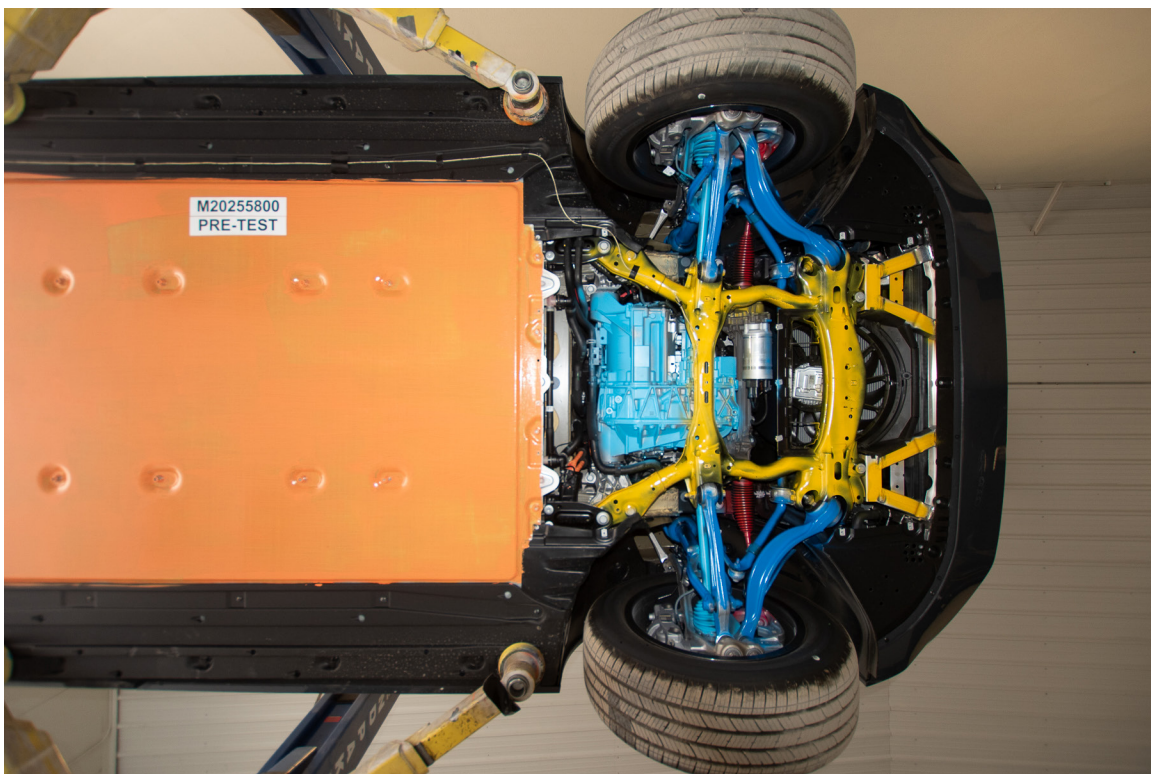


FIGURE 24. Pre-Test Front Underbody View

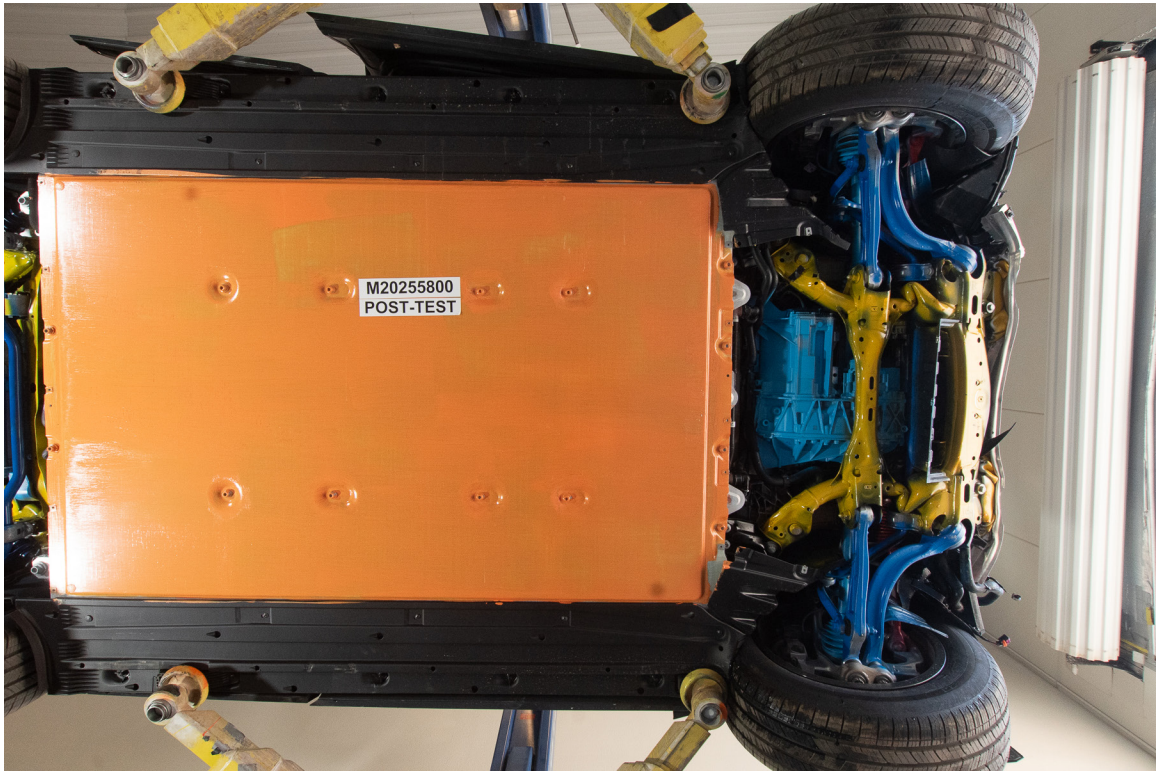


FIGURE 25. Post-Test Front Underbody View

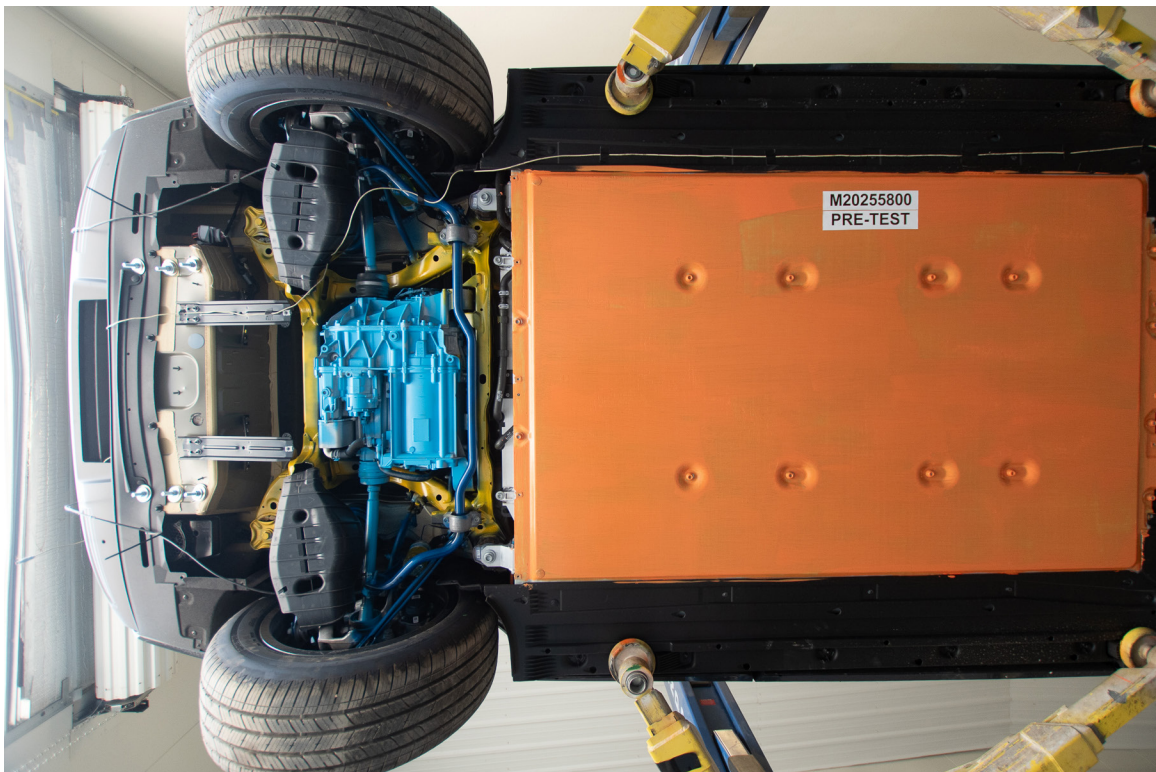


FIGURE 26. Pre-Test Rear Underbody View

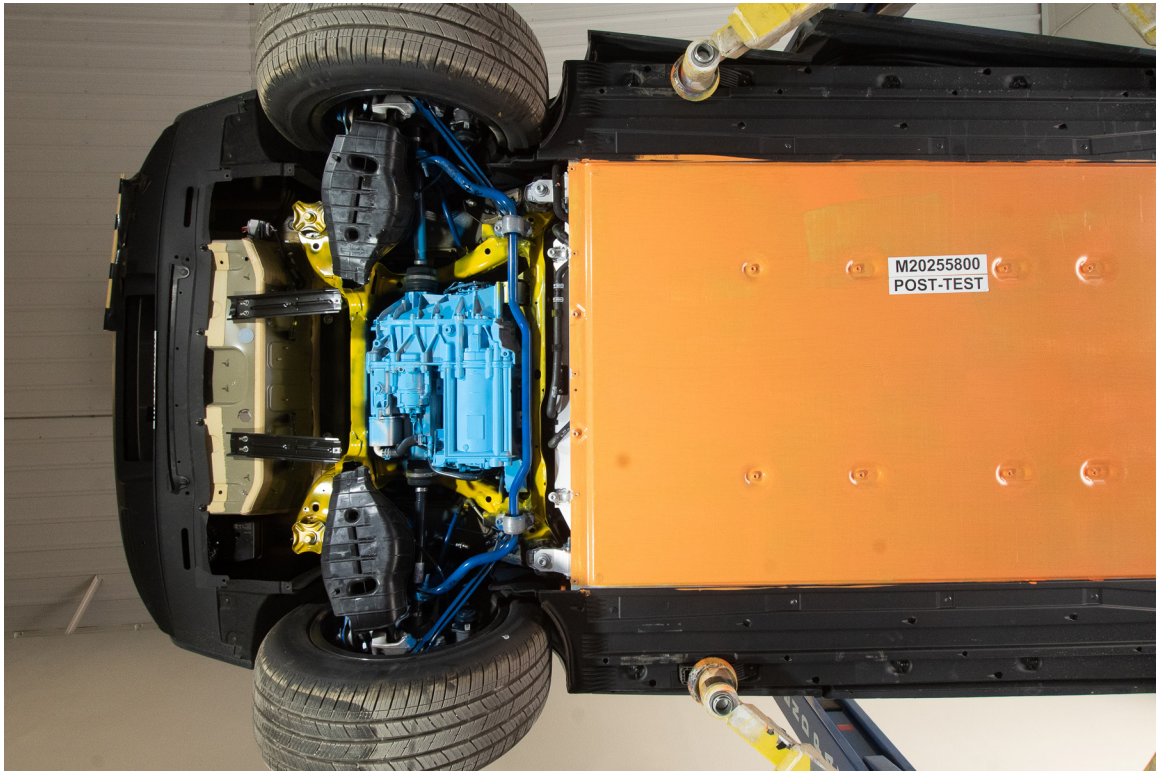


FIGURE 27. Post-Test Rear Underbody View



FIGURE 28. Pre-Test Dummy Cable Routing



FIGURE 29. Post-Test Dummy Cable Routing



FIGURE 30. Pre-Test Driver Dummy Front View



FIGURE 31. Post-Test Driver Dummy Front View



FIGURE 32. Pre-Test Driver Dummy Window View



FIGURE 33. Post-Test Driver Dummy Window View



FIGURE 34. Pre-Test Driver Dummy and Vehicle Interior View



FIGURE 35. Post-Test Driver Dummy and Vehicle Interior View



FIGURE 36. Pre-Test Driver's Seat Fore-Aft Markings



FIGURE 37. Post-Test Driver's Seat Fore-Aft Markings



FIGURE 38. Pre-Test View of Belt Anchorage for Driver Dummy



FIGURE 39. Post-Test View of Belt Anchorage for Driver Dummy



FIGURE 40. Pre-Test View of Belt Buckle and Latch Plate for Driver Dummy



FIGURE 41. Post-Test View of Belt Buckle and Latch Plate for Driver Dummy

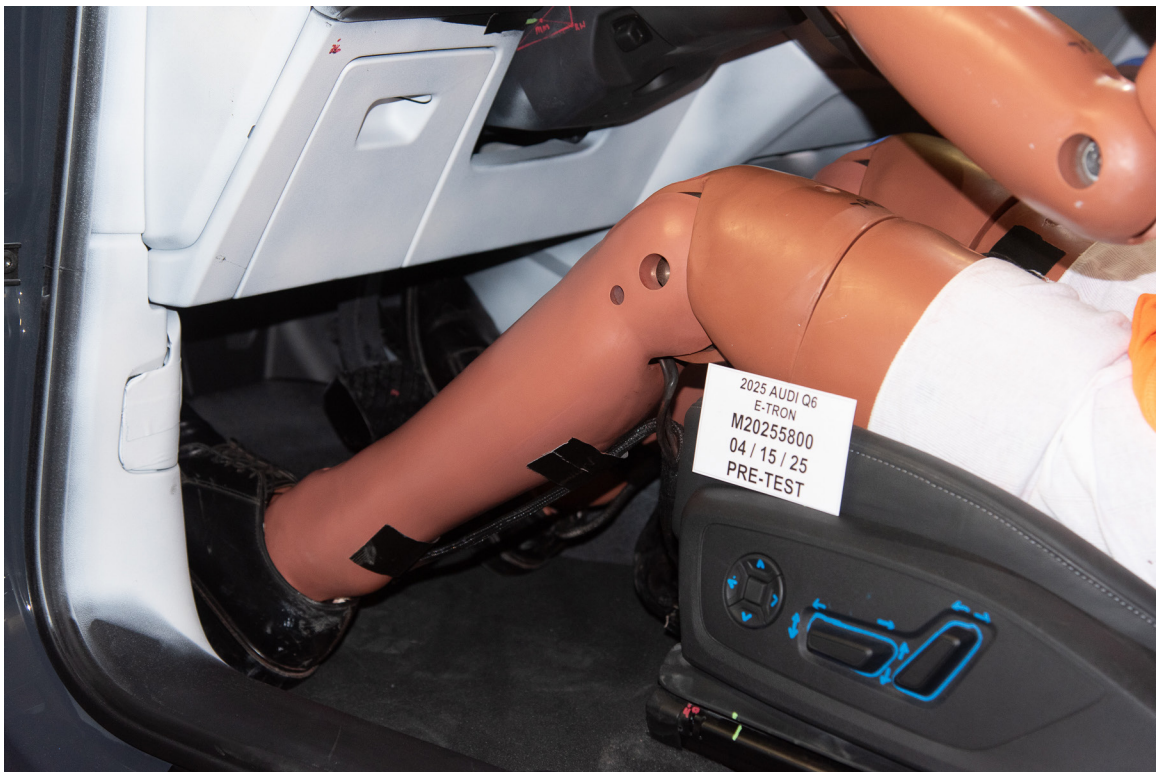


FIGURE 42. Pre-Test Driver Dummy Feet



FIGURE 43. Post-Test Driver Dummy Feet



FIGURE 44. Pre-Test Driver's Side Knee Bolster



FIGURE 45. Post-Test Driver's Side Knee Bolster



FIGURE 46. Pre-Test Driver's Side Floorpan



FIGURE 47. Post-Test Driver's Side Floorpan



FIGURE 48. Post-Test Driver Dummy Face



FIGURE 49. Post-Test Driver Dummy Contact with Air Bag



FIGURE 50. Post-Test Driver Dummy Contact with Headrest



FIGURE 51. Pre-Test View of the Steering Wheel



FIGURE 52. Post-Test View of the Steering Wheel



FIGURE 53. Pre-Test Passenger Dummy Front View



FIGURE 54. Post-Test Passenger Dummy Front View



FIGURE 55. Pre-Test Passenger Dummy Window View



FIGURE 56. Post-Test Passenger Dummy Window View



FIGURE 57. Pre-Test Passenger Dummy and Vehicle Interior View



FIGURE 58. Post-Test Passenger Dummy and Vehicle Interior View



FIGURE 59. Pre-Test Passenger's Seat Fore-Aft Markings



FIGURE 60. Post-Test Passenger's Seat Fore-Aft Markings



FIGURE 61. Pre-Test View of Belt Anchorage for Passenger Dummy



FIGURE 62. Post-Test View of Belt Anchorage for Passenger Dummy



FIGURE 63. Pre-Test View of Belt Buckle and Latch Plate for Passenger Dummy



FIGURE 64. Post-Test View of Belt Buckle and Latch Plate for Passenger Dummy



FIGURE 65. Pre-Test Passenger Dummy Feet



FIGURE 66. Post-Test Passenger Dummy Feet



FIGURE 67. Pre-Test Passenger's Side Knee Bolster



FIGURE 68. Post-Test Passenger's Side Knee Bolster



FIGURE 69. Pre-Test Passenger's Side Floorpan



FIGURE 70. Post-Test Passenger's Side Floorpan



FIGURE 71. Post-Test Passenger Dummy Face



FIGURE 72. Post-Test Passenger Dummy Contact with Air Bag



FIGURE 73. Post-Test Passenger Dummy Contact with Headrest

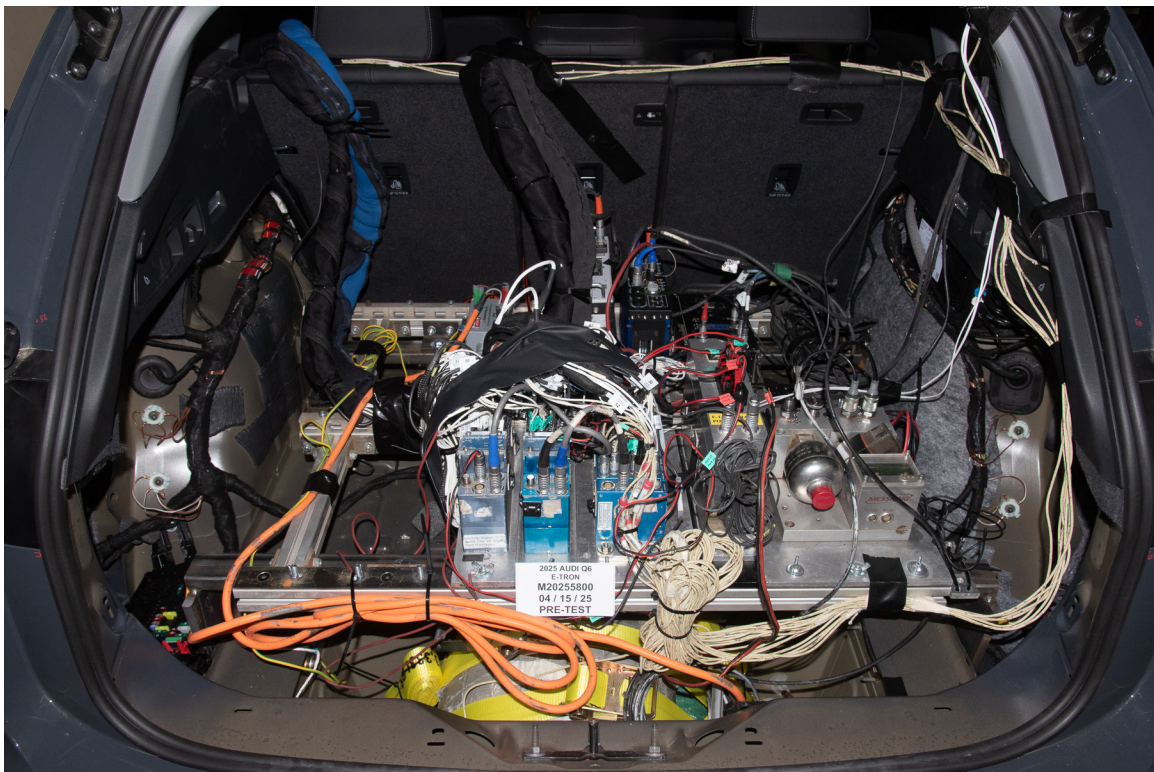


FIGURE 74. Photograph of Ballast Installed in Vehicle

Photograph Not Applicable

No Stoddard Solvent Spillage

FIGURE 75. Post-Test Stoddard Solvent Spillage Location View



FIGURE 76. Post-Test Speed Trap Read-Out



FIGURE 77. Vehicle at 0° on Static Rollover Device

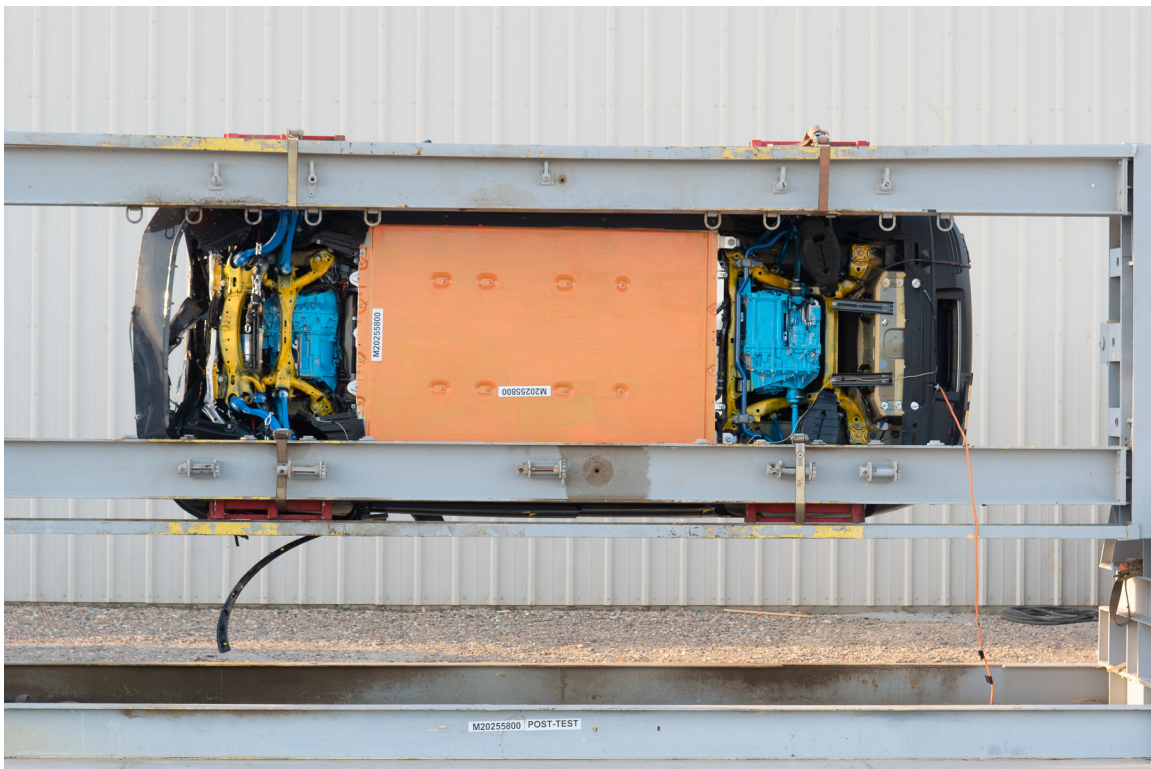


FIGURE 78. Vehicle at 90° on Static Rollover Device



FIGURE 79. Vehicle at 180° on Static Rollover Device



FIGURE 80. Vehicle at 270° on Static Rollover Device



FIGURE 81. Vehicle at 360° on Static Rollover Device



FIGURE 82. 2025 Audi Q6 e-tron Frontal Impact Event

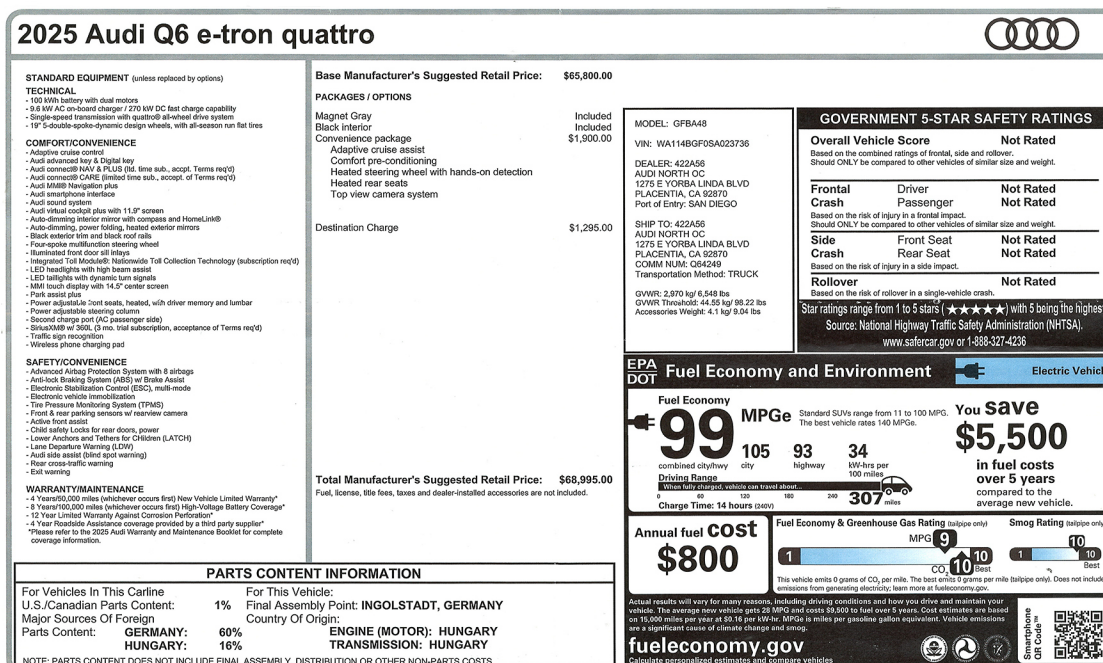


FIGURE 83. Monroney Label Photograph

Photograph Not Applicable

No Auxiliary Power Module Warning Label Present.

FIGURE 305-01 Auxiliary Power Module Warning Label

Photograph Not Applicable

No Power Inverter Warning Label Present.

FIGURE 305-02 Power Inverter Warning Label



FIGURE 305-03. First Responder Warning Label



FIGURE 305-03a. First Responder Warning Label



FIGURE 305-04. First Responder Warning Location



FIGURE 305-04a. First Responder Warning Location



FIGURE 305-05. Other Vehicle Label(s) Related to Electrical Propulsion System

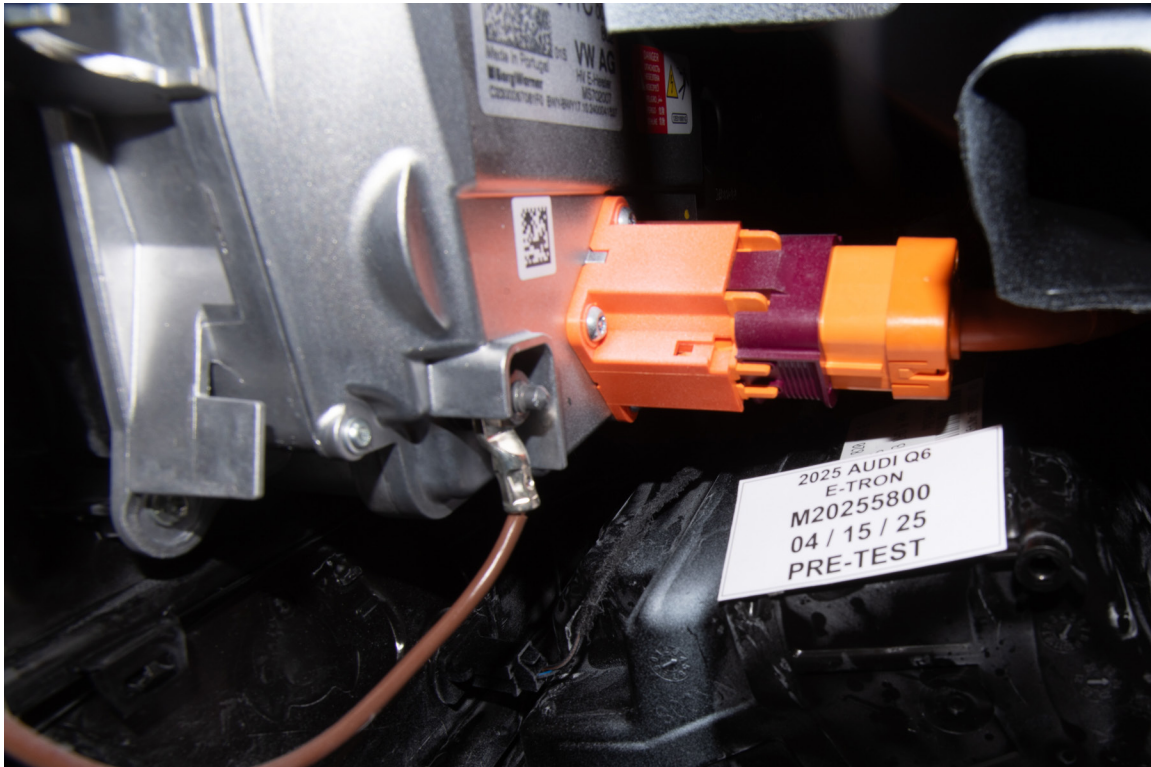


FIGURE 305-06. Manual High Voltage Service Disconnect in Place



FIGURE 305-07. Manual High Voltage Service Disconnect Removed



FIGURE 305-08. Manual High Voltage Service Disconnect Removed

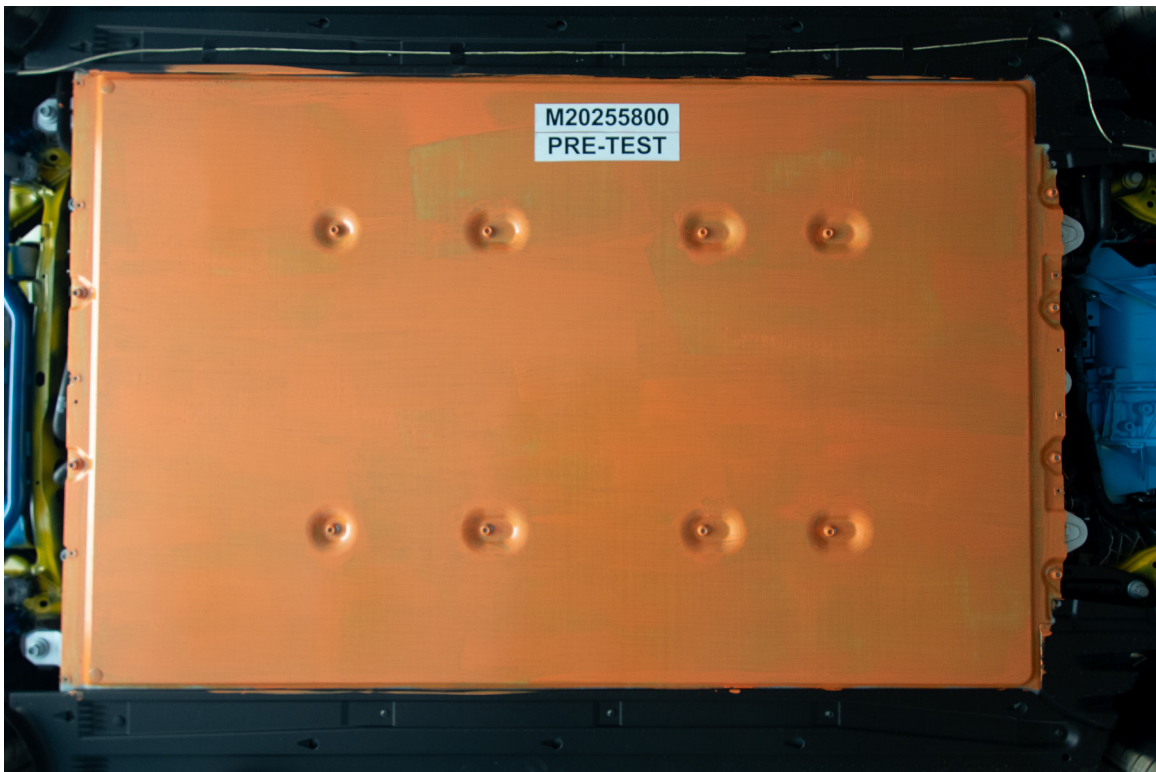


FIGURE 305-09. Pre-Impact View of Propulsion Battery

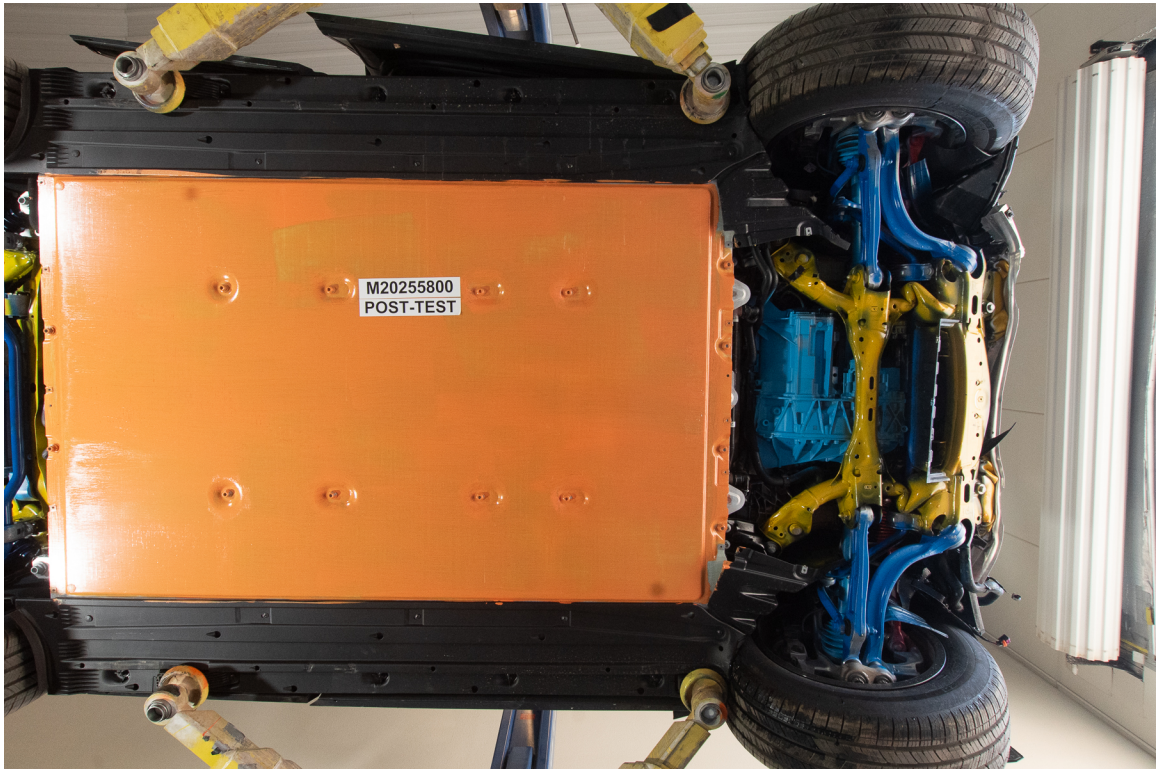


FIGURE 305-010. Post-Impact Front View of Propulsion Battery

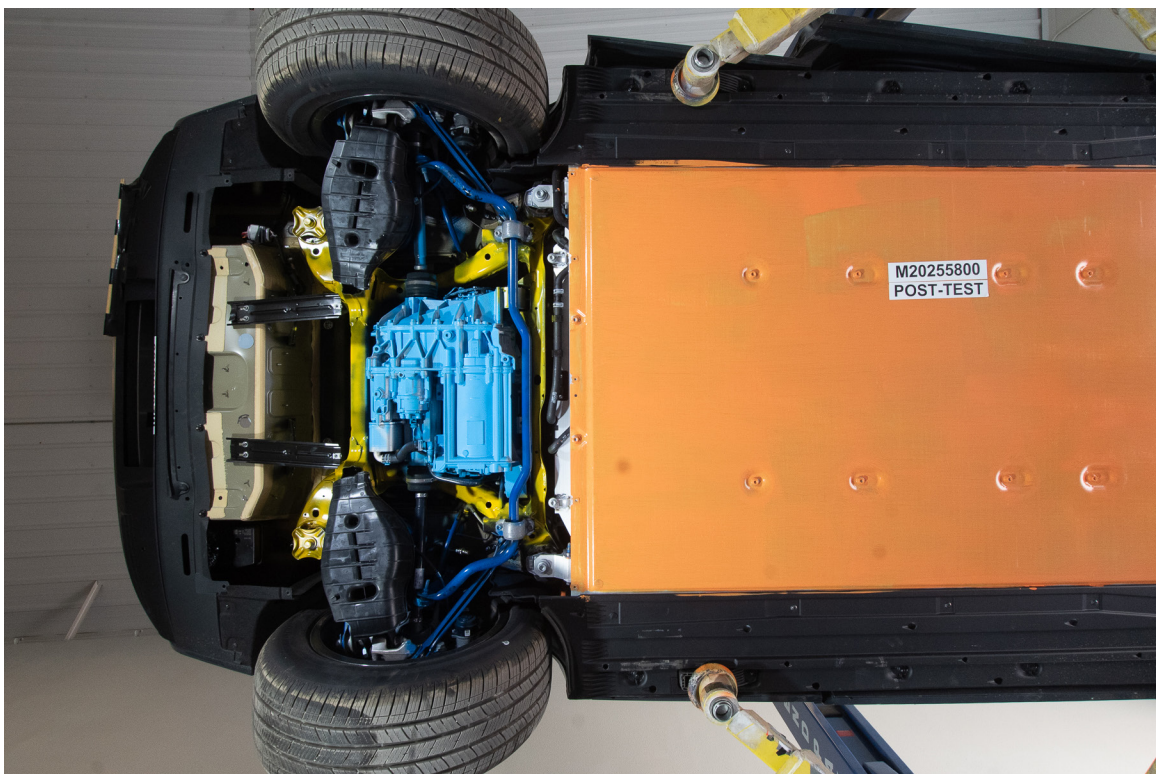


FIGURE 305-011. Post-Impact Rear View of Propulsion Battery

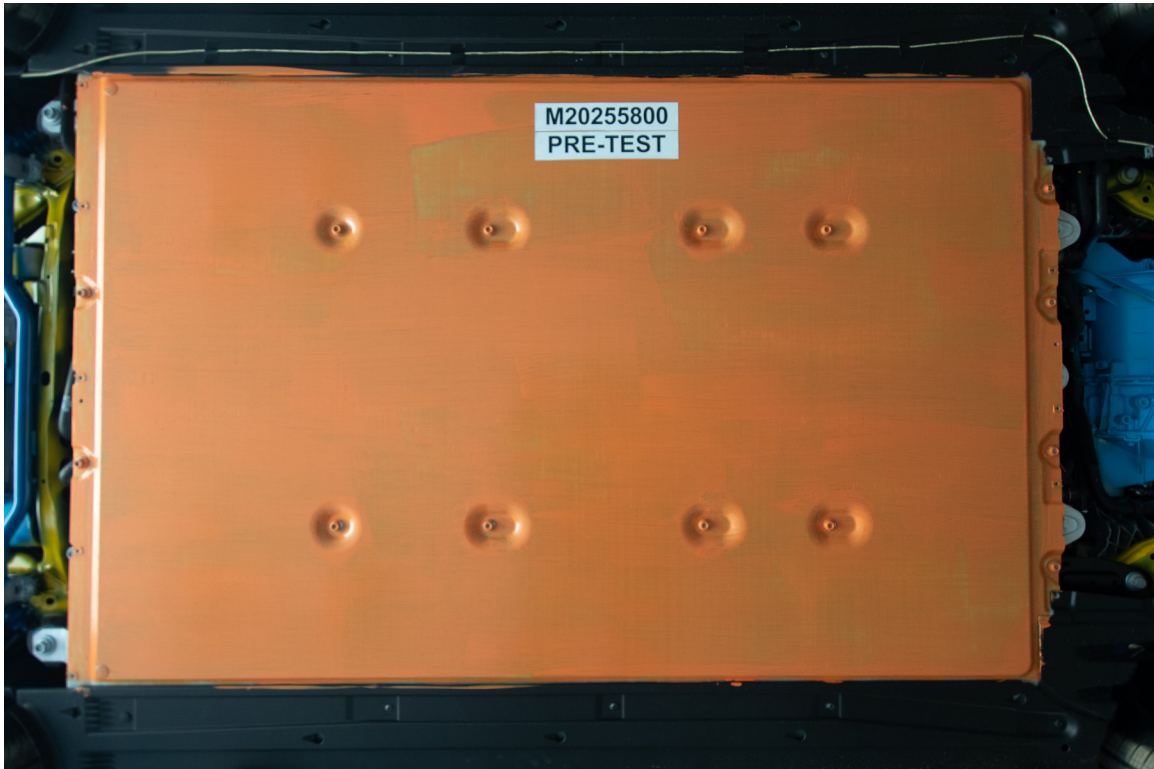


FIGURE 305-012. Pre-Impact View of Battery Box(s) or Container(s) Which Holds Individual Battery Module(s)

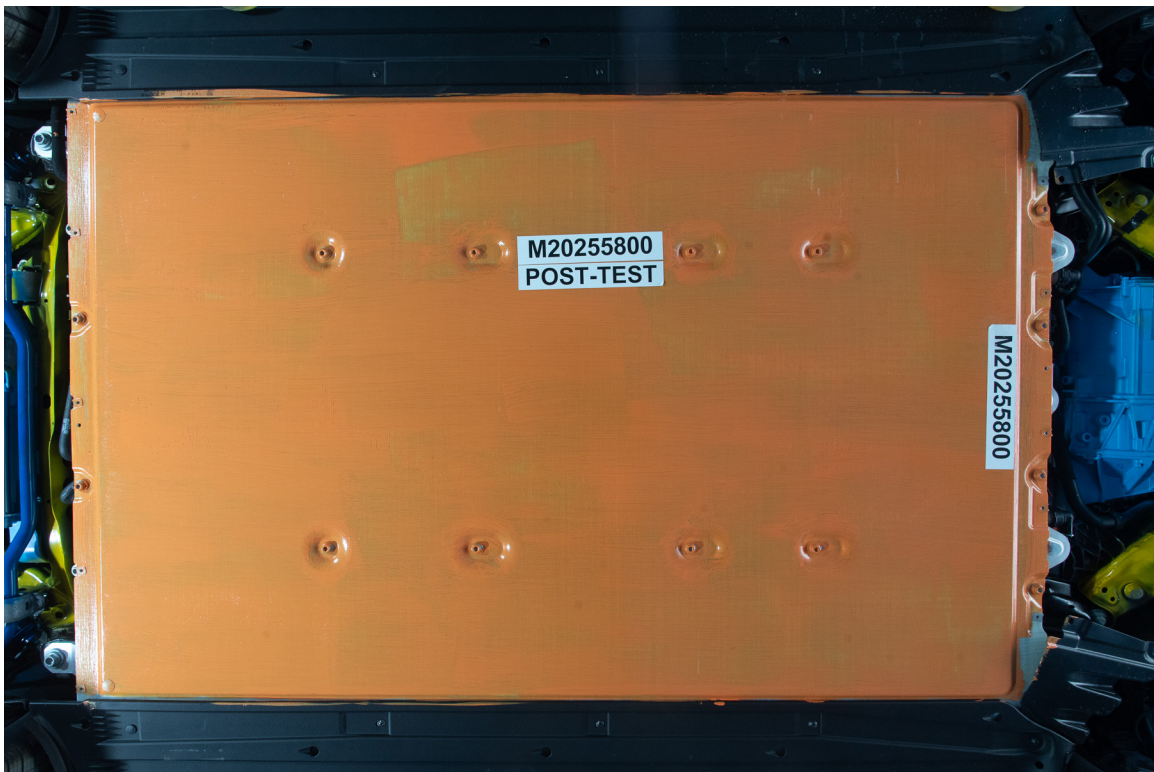


FIGURE 305-013. Post-Impact View of Battery Box(s) or Container(s) Which Holds Individual Battery Module(s)

Photograph Not Applicable

Battery Not Removed From Vehicle

FIGURE 305-014. Pre-Impact View of Propulsion Battery Module(s)

Photograph Not Applicable

Battery Not Removed From Vehicle

FIGURE 305-015. Post-Impact View of Propulsion Battery Module(s)

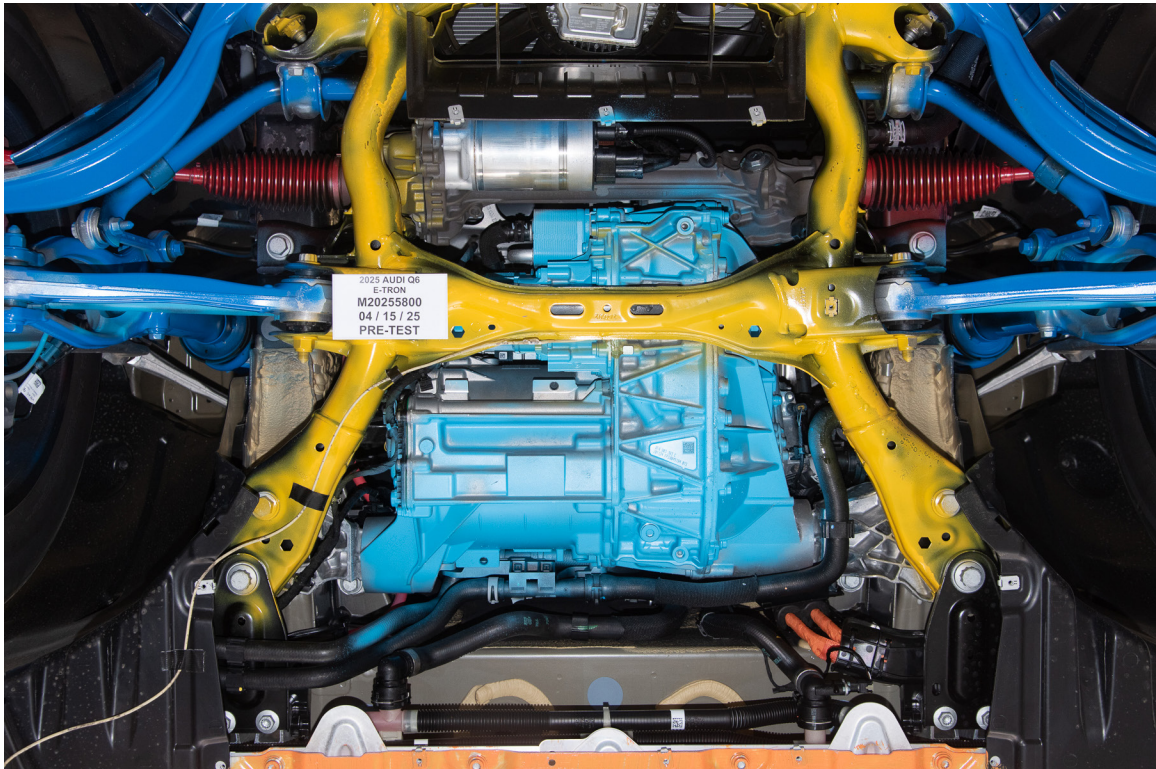


FIGURE 305-016. Pre-Impact View of Electric Propulsion Drive

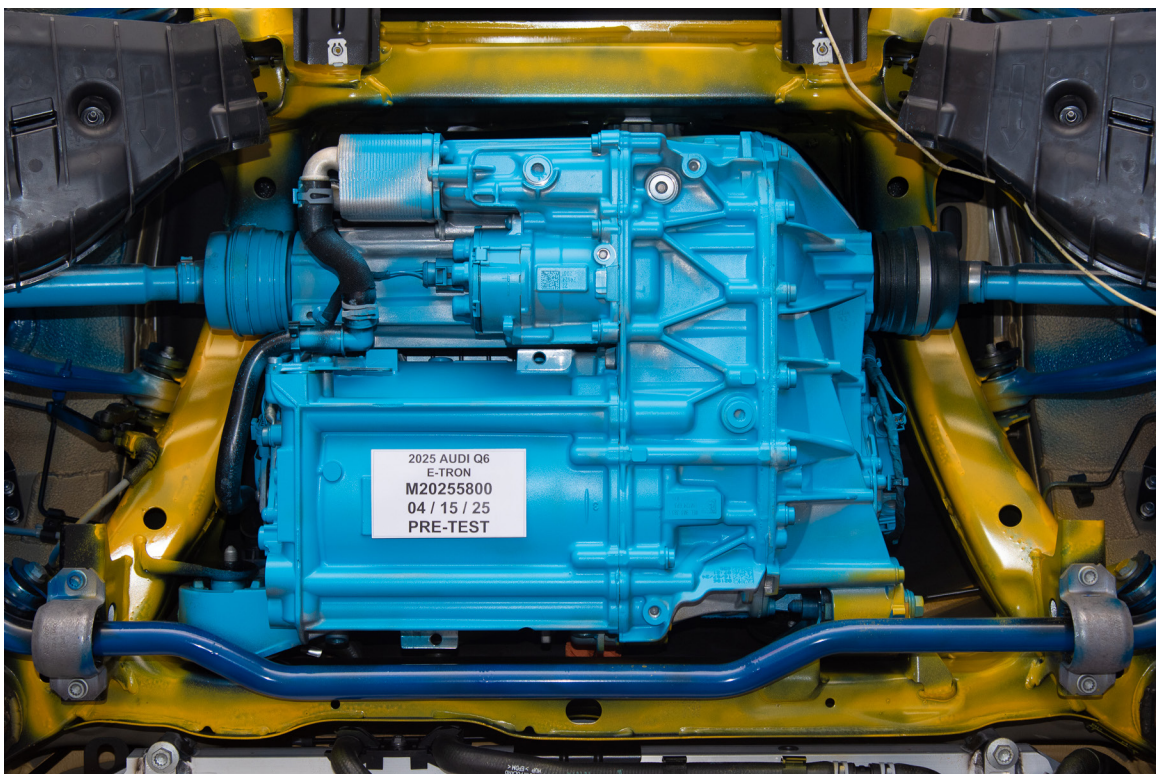


FIGURE 305-016a. Pre-Impact View of Electric Propulsion Drive

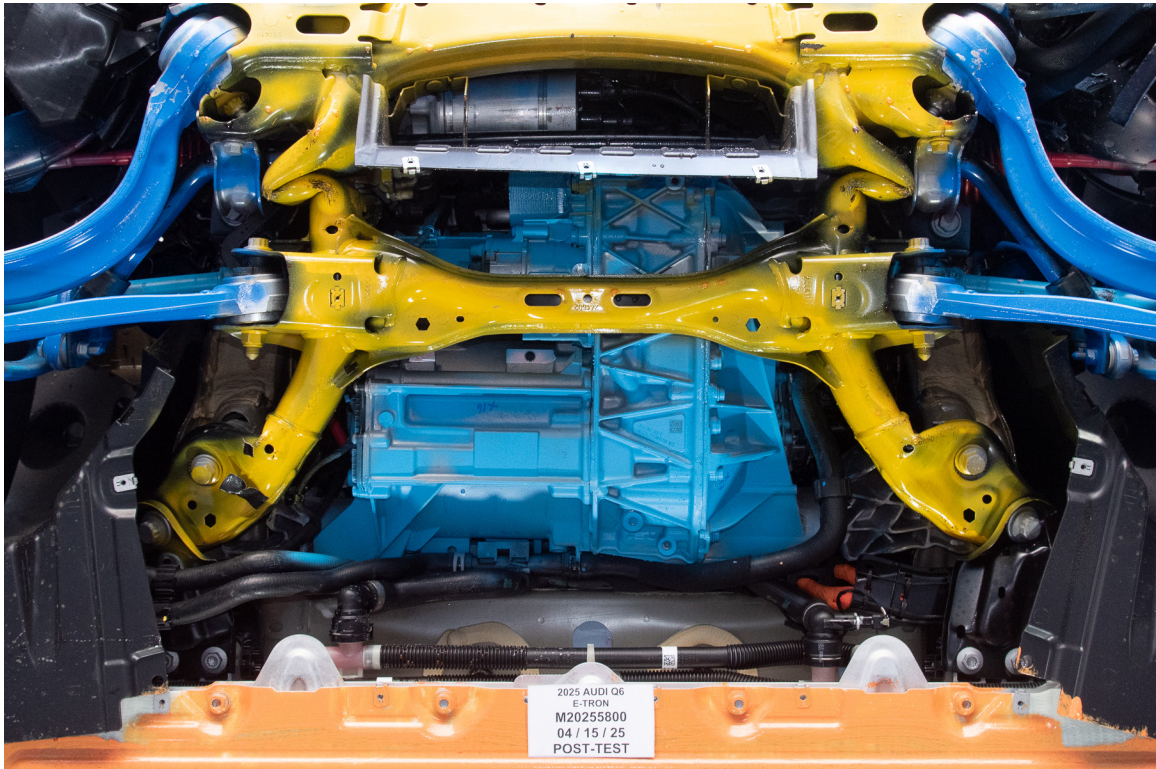


FIGURE 305-017. Post-Impact View of Electric Propulsion Drive

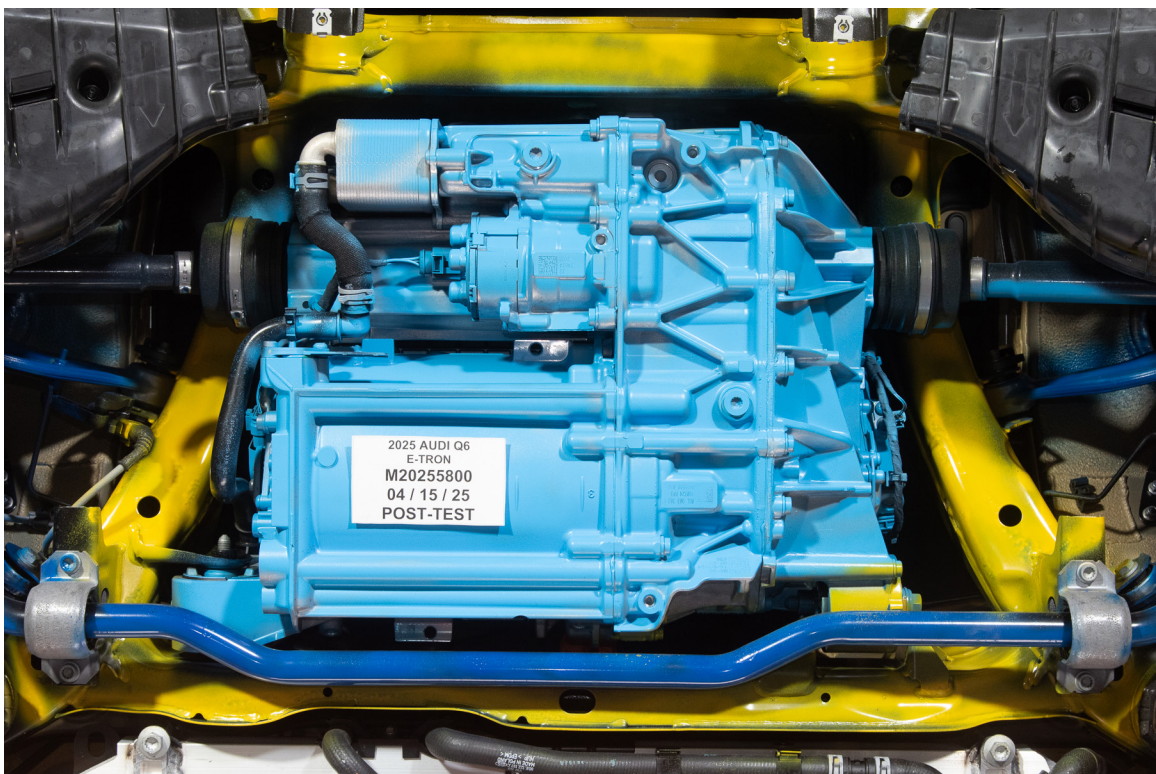


FIGURE 305-017a. Post-Impact View of Electric Propulsion Drive



FIGURE 305-018. Pre-Impact View of High Voltage Interconnect(s)

Photograph Not Applicable

Propulsion Battery Venting System Not Visible.

FIGURE 305-019. Pre-Impact View Propulsion Battery Venting System(s)

Photograph Not Applicable

No Other Visible Electric Propulsion Components

FIGURE 305-020 Pre-Impact View of Other Visible Electric Propulsion Components



FIGURE 305-021. Pre-Impact View of Ground Lead Attached

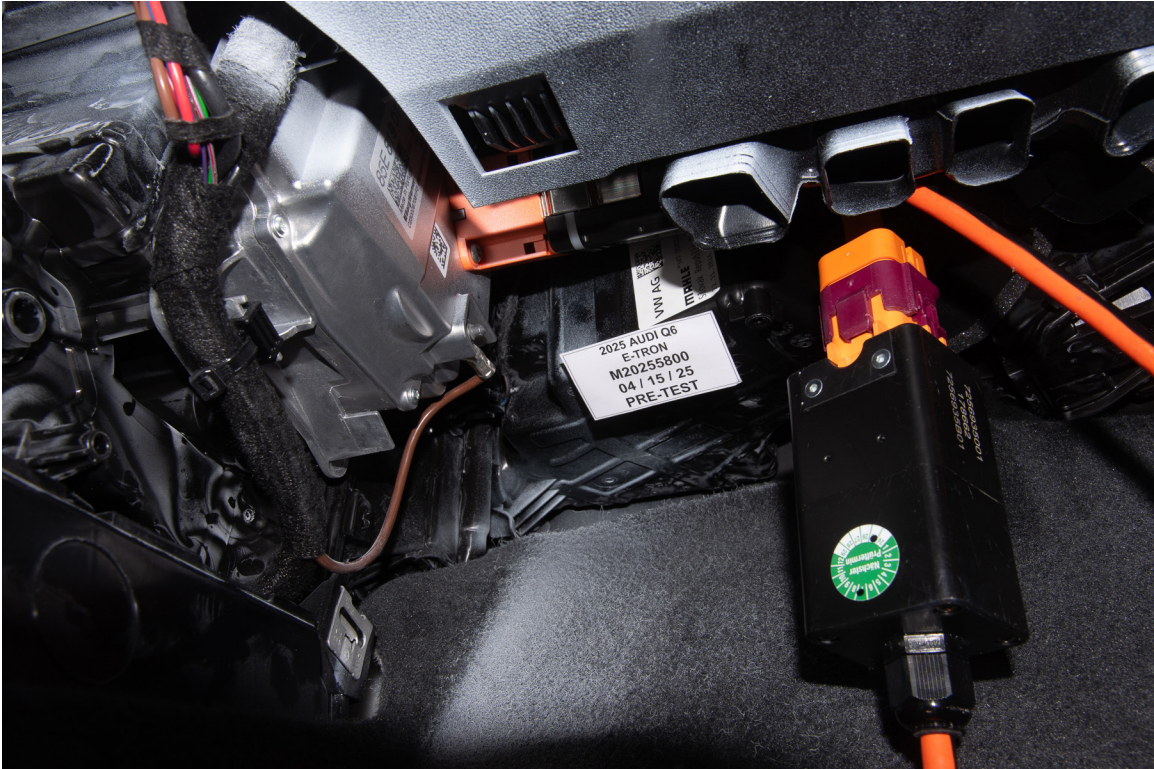


FIGURE 305-022. Pre-Impact View of High Voltage Leads Attached

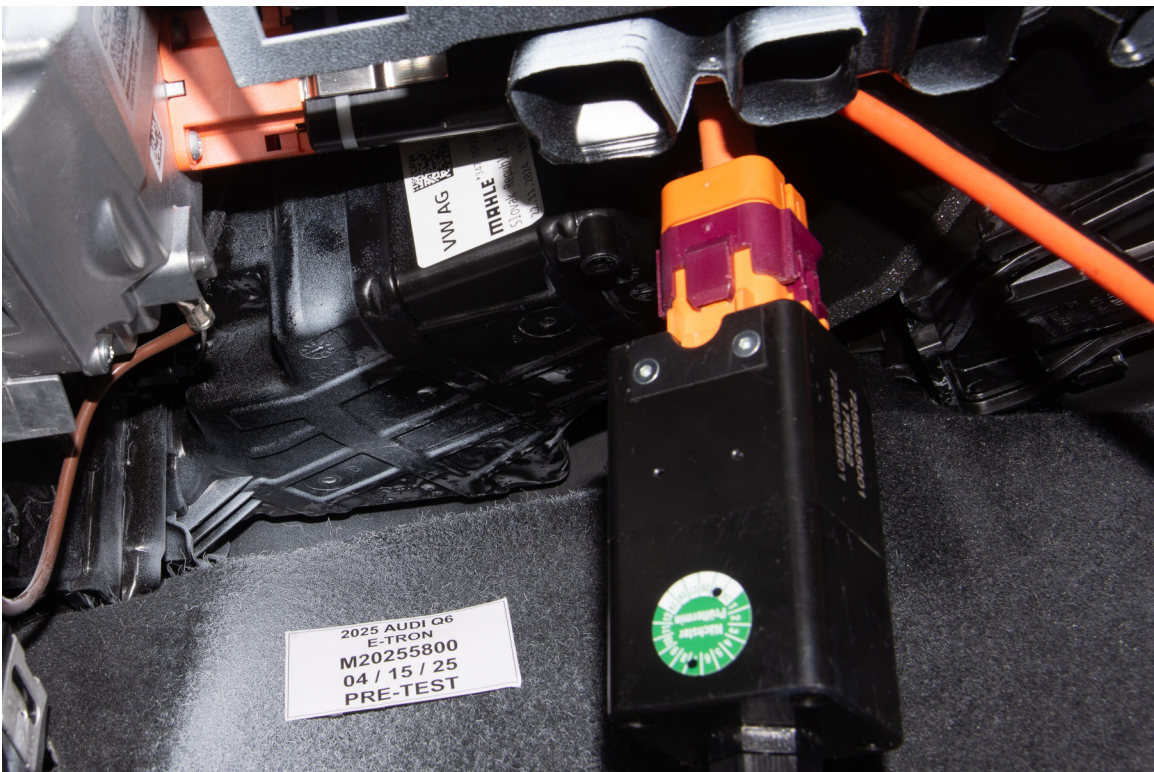


FIGURE 305-023. Pre-Impact Close-Up View of High Voltage Leads Attached



FIGURE 305-024. Pre-Impact View of Installed Test Interface Port



FIGURE 305-025. Post-Impact View of Installed Test Interface Port



FIGURE 305-026. Pre-Impact View of Other Test Devices

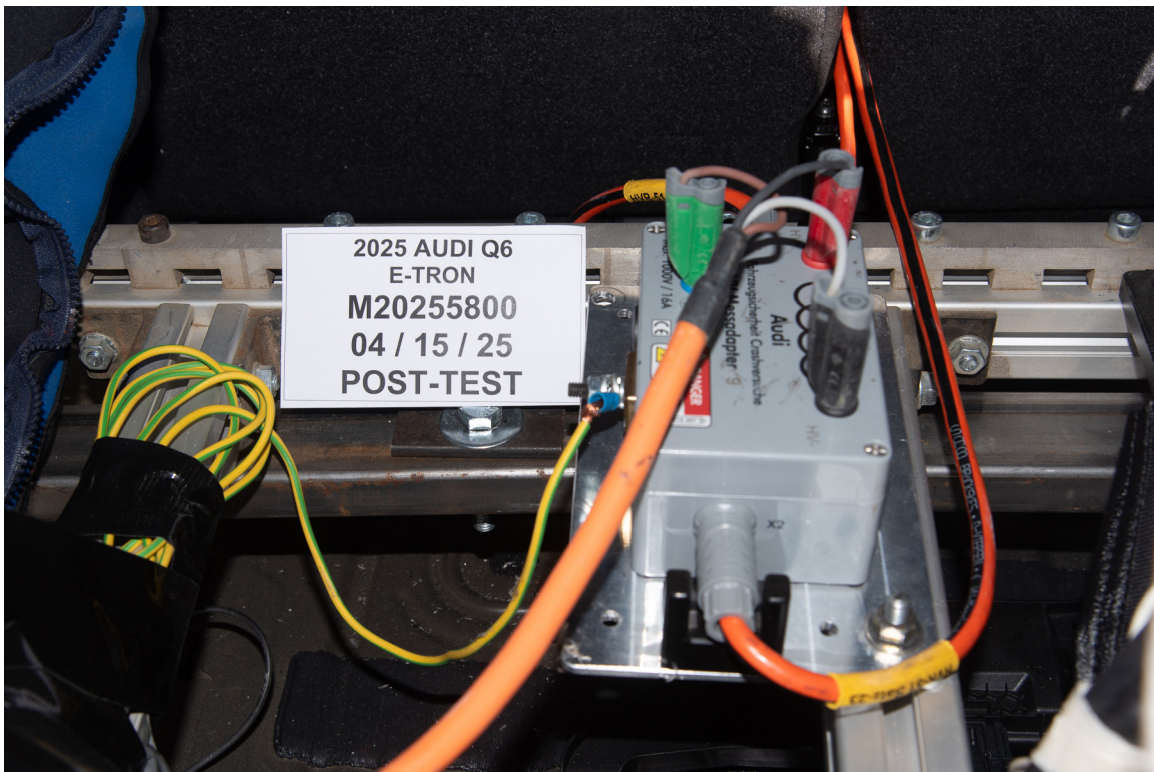


FIGURE 305-027. Post-Impact View of Other Test Devices

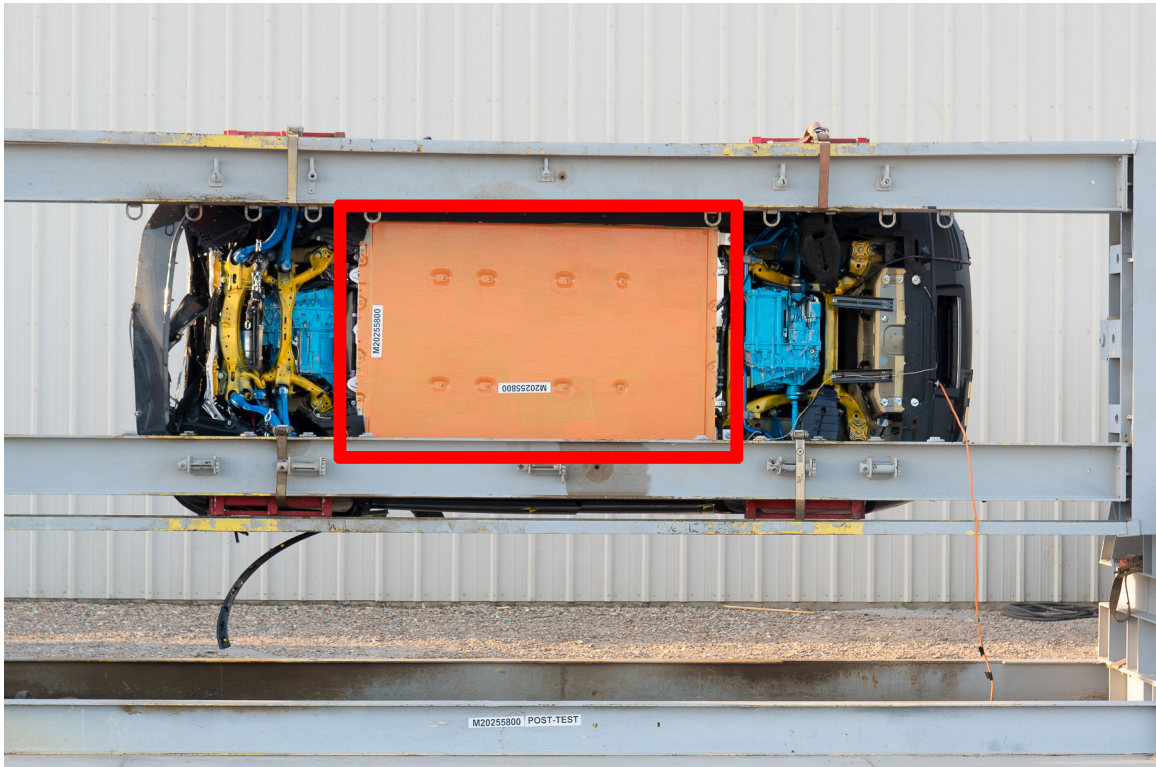


FIGURE 305-028. FMVSS No. 305 Static Rollover at 90°

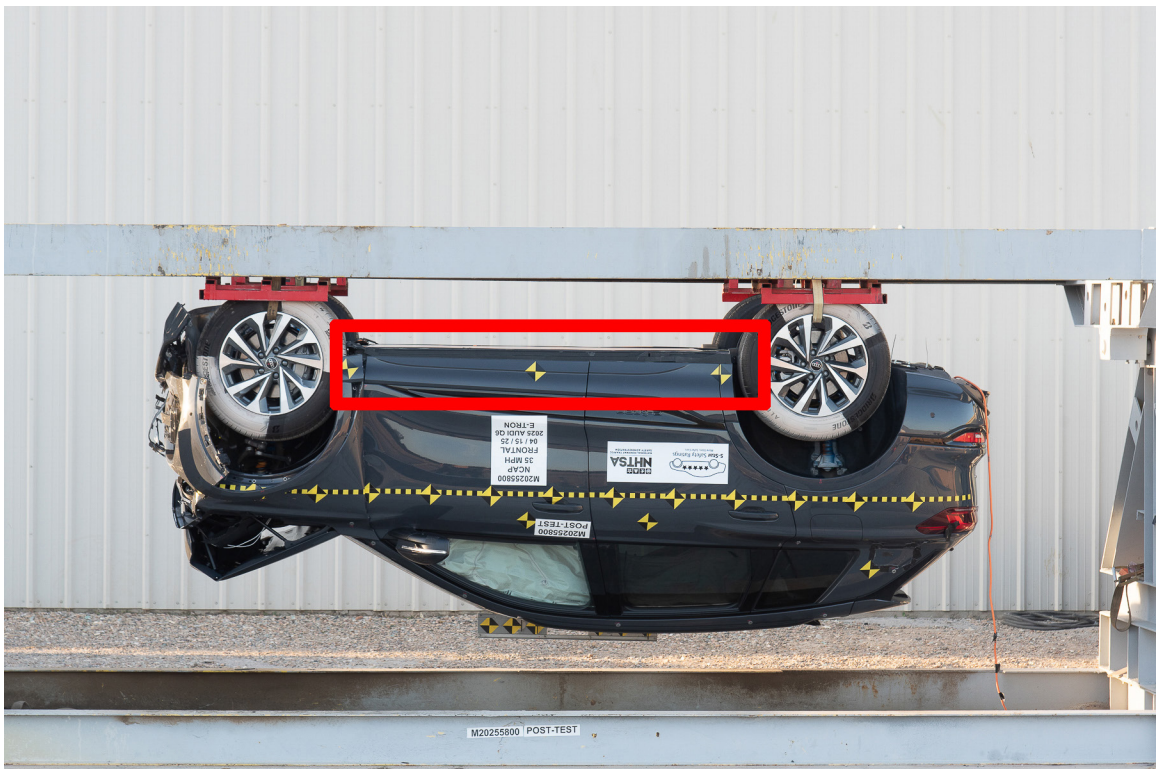


FIGURE 305-029. FMVSS No. 305 Static Rollover at 180°



FIGURE 305-030. FMVSS No. 305 Static Rollover at 270°



FIGURE 305-031. FMVSS No. 305 Static Rollover at 360°



FIGURE 305-032. Pre-Impact View of the Vehicle Passenger Compartment Adjacent to Propulsion Battery



FIGURE 305-033. Post-Impact View of the Vehicle Passenger Compartment Adjacent to Propulsion Battery

Photograph Not Applicable

No Propulsion Battery Mounting
and/or Intrusion Failure

FIGURE 305-034 Post-Impact Propulsion Battery System Mounting and or Intrusion
Failure(s)

Photograph Not Applicable

No Battery Component Intrusion

FIGURE 305-035 Post-Impact View of Battery Component Intrusion

Photograph Not Applicable

No Propulsion Battery Movement or Retention Loss

FIGURE 305-036 Post-Impact View of Battery Module Movement or Retention Loss

Photograph Not Applicable

No Propulsion Battery Electrolyte Spillage

FIGURE 305-037 Post-Impact View of Propulsion Battery Electrolyte Spillage Location

Photograph Not Applicable

No Propulsion Battery Electrolyte Spillage

FIGURE 305-038 Post-Test View of Propulsion Battery Electrolyte Spillage Location

APPENDIX B
DUMMY RESPONSE DATA TRACES

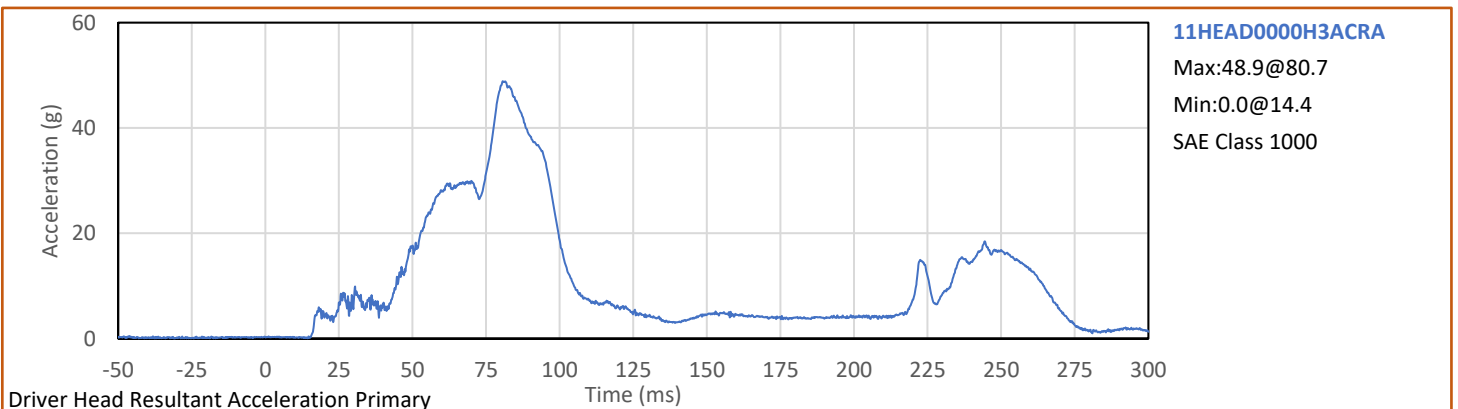
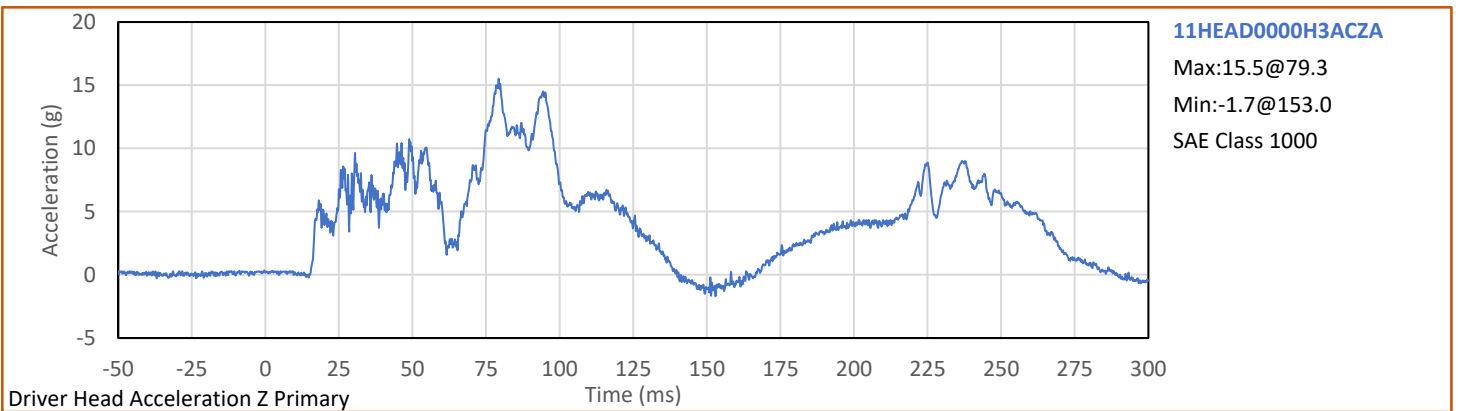
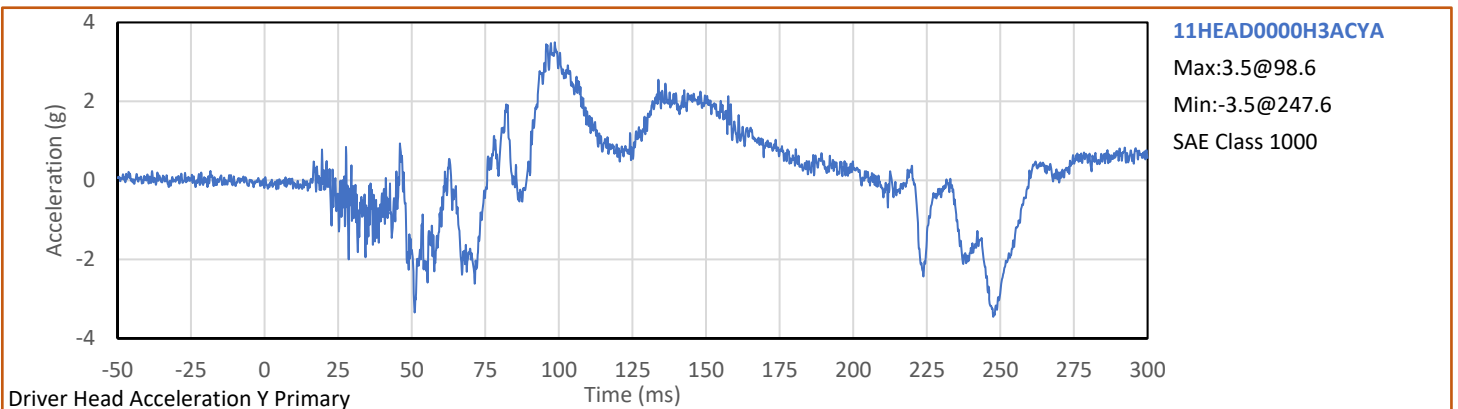
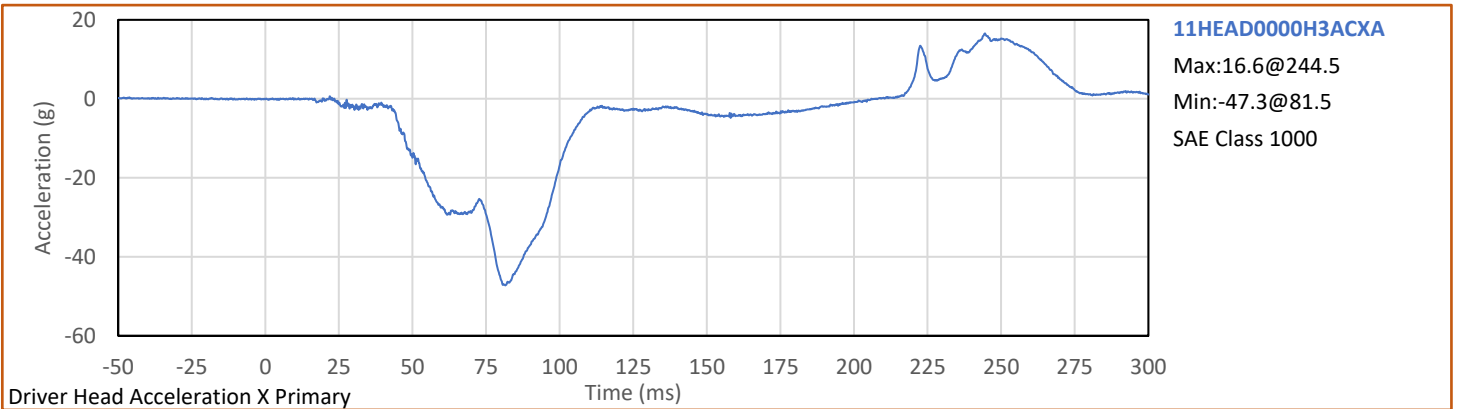
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15	Driver Right Femur Force Z	B-5
16	Passenger Head Acceleration X Primary	B-6
17	Passenger Head Acceleration Y Primary	B-6
18	Passenger Head Acceleration Z Primary	B-6
19	Passenger Head Resultant Acceleration Primary	B-6
20	Passenger Chest X Deflection	B-7
21	Passenger Upper Neck Force X	B-8
22	Passenger Upper Neck Force Z	B-8
23	Passenger Upper Neck Moment Y	B-8
24	Passenger Nij	B-8
25	Passenger Chest Acceleration X Primary	B-9
26	Passenger Chest Acceleration Y Primary	B-9
27	Passenger Chest Acceleration Z Primary	B-9
28	Passenger Chest Resultant Acceleration Primary	B-9
29	Passenger Left Femur Force Z	B-10
30	Passenger Right Femur Force Z	B-10

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

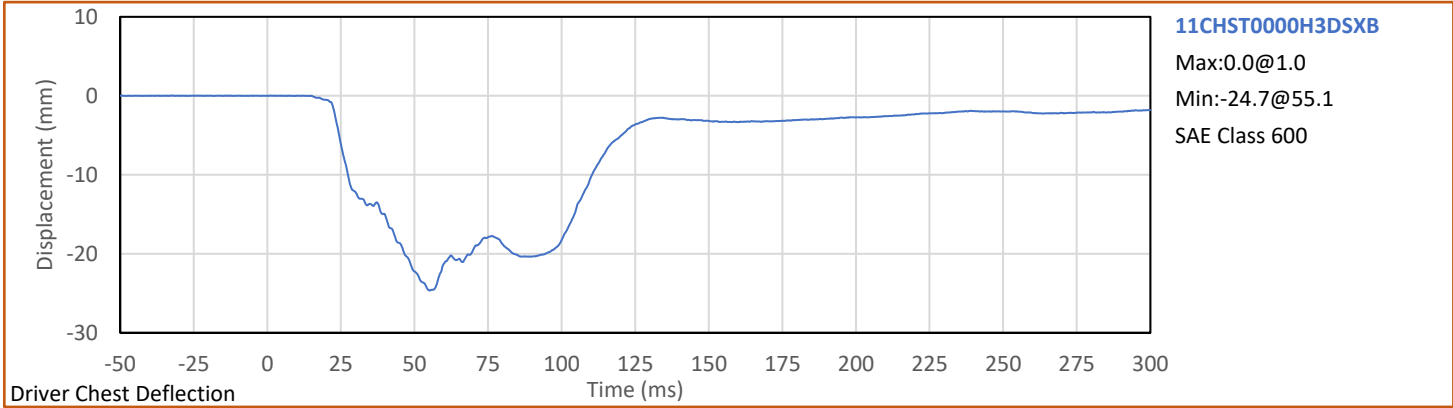
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Driver Head Z Acceleration Redundant
Driver Upper Neck Force Y
Driver Upper Neck Moment X
Driver Upper Neck Moment Z
Driver Chest X Acceleration Redundant
Driver Chest Y Acceleration Redundant
Driver Chest Z Acceleration Redundant
Driver Pelvis X
Driver Pelvis Y
Driver Pelvis Z
Driver Left Femur Force Z Redundant
Driver Right Femur Force Z Redundant
Driver Left Upper Tibia Moment X
Driver Left Upper Tibia Moment Y
Driver Left Upper Tibia Force Z
Driver Left Lower Tibia Moment X
Driver Left Lower Tibia Moment Y
Driver Left Lower Tibia Force Z
Driver Right Upper Tibia Moment X
Driver Right Upper Tibia Moment Y
Driver Right Upper Tibia Force Z
Driver Right Lower Tibia Moment X
Driver Right Lower Tibia Moment Y
Driver Right Lower Tibia Force Z
Driver Left Foot Fore Z
Driver Left Foot Aft X
Driver Left Foot Aft Z
Driver Right Foot Fore Z
Driver Right Foot Aft X
Driver Right Foot Aft Z
Driver Shoulder Belt Force
Driver Lap Belt Force
Driver Head Angular Velocity X
Driver Head Angular Velocity Y
Driver Head Angular Velocity Z
Passenger Head X Acceleration Redundant
Passenger Head Y Acceleration Redundant
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Passenger Upper Neck Force X
Passenger Upper Neck Force Z
Passenger Upper Neck Moment Y

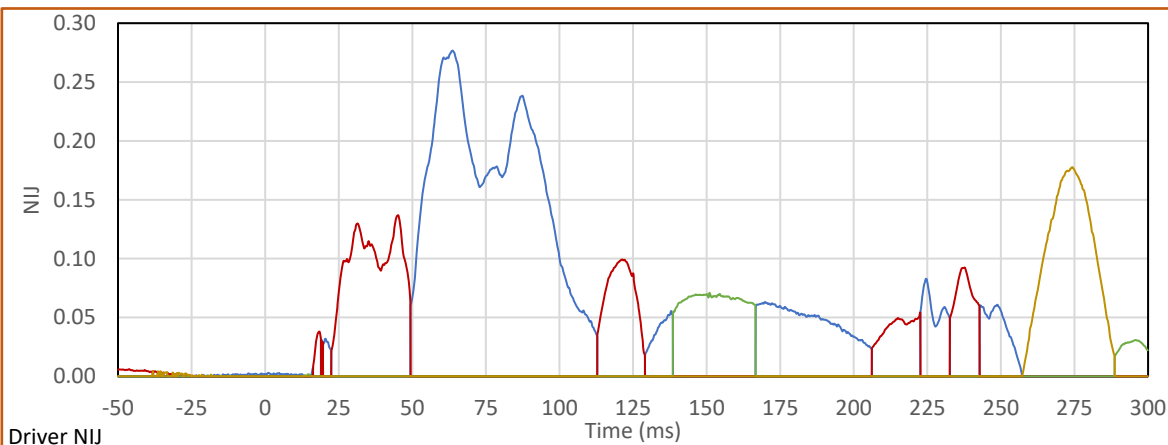
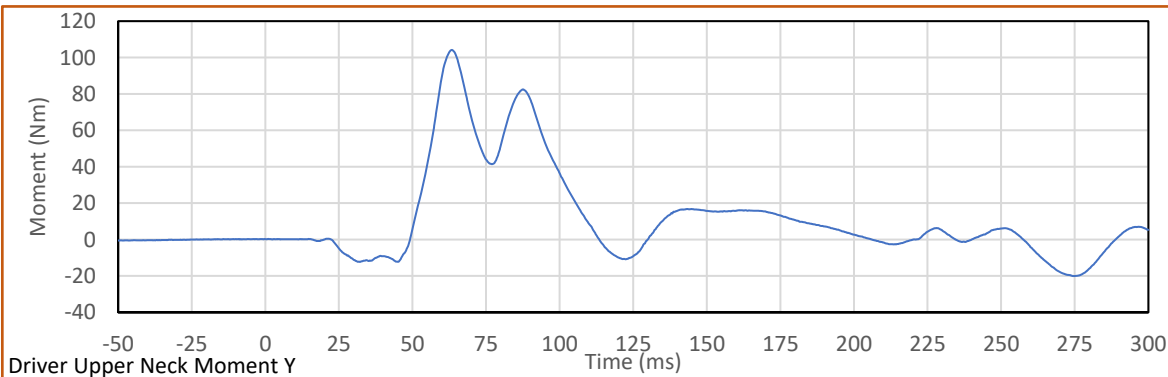
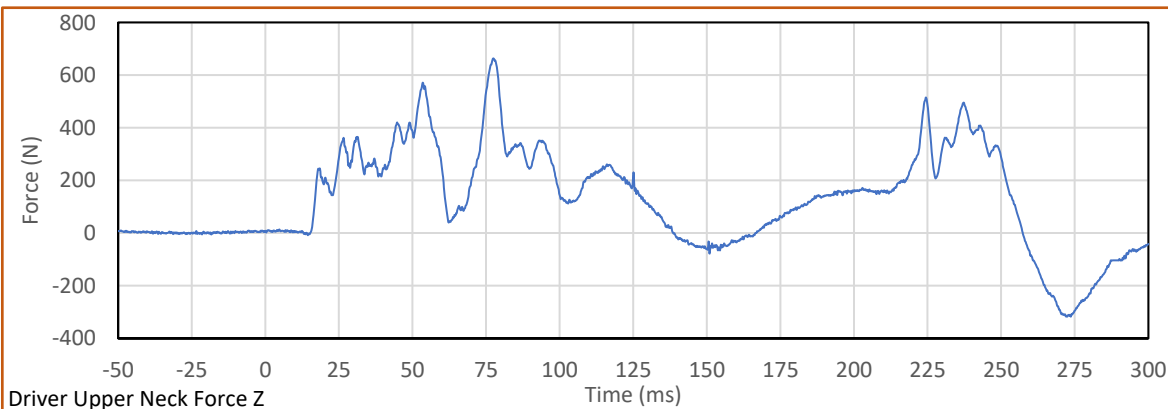
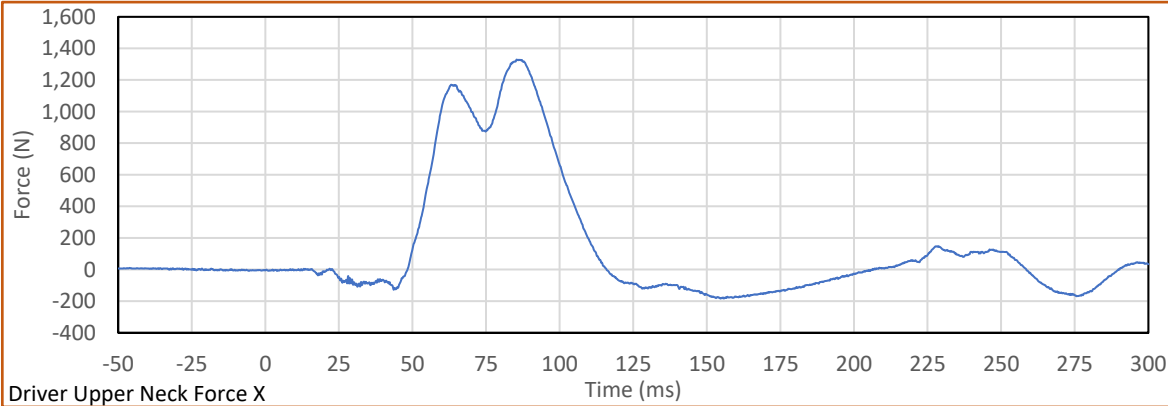
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Passenger Chest Y Acceleration Redundant
Passenger Chest Z Acceleration Redundant
Passenger Pelvis X
Passenger Pelvis Y
Passenger Pelvis Z
Passenger Left Femur Force Redundant
Passenger Right Femur Force Redundant
Passenger Left Upper Tibia Moment X
Passenger Left Upper Tibia Moment Y
Passenger Left Upper Tibia Force Z
Passenger Left Lower Tibia Moment X
Passenger Left Lower Tibia Moment Y
Passenger Left Lower Tibia Force Z
Passenger Right Upper Tibia Moment X
Passenger Right Upper Tibia Moment Y
Passenger Right Upper Tibia Force Z
Passenger Right Lower Tibia Moment X
Passenger Right Lower Tibia Moment Y
Passenger Right Lower Tibia Force Z
Passenger Left Foot Fore Z
Passenger Left Foot Aft X
Passenger Left Foot Aft Z
Passenger Right Foot Fore Z
Passenger Right Foot Aft X
Passenger Right Foot Aft Z
Passenger Shoulder Belt Force
Passenger Lap Belt Force
Passenger Head Angular Velocity X
Passenger Head Angular Velocity Y
Passenger Head Angular Velocity Z
Left Rear Seat Crossmember X
Left Rear Seat Crossmember Z
Right Rear Seat Crossmember X
Right Rear Seat Crossmember Z
Left Rear Seat Crossmember X Redundant
Right Rear Seat Crossmember X Redundant
Vehicle Engine Top X
Vehicle Engine Bottom X
Load Cell Barrier Forces

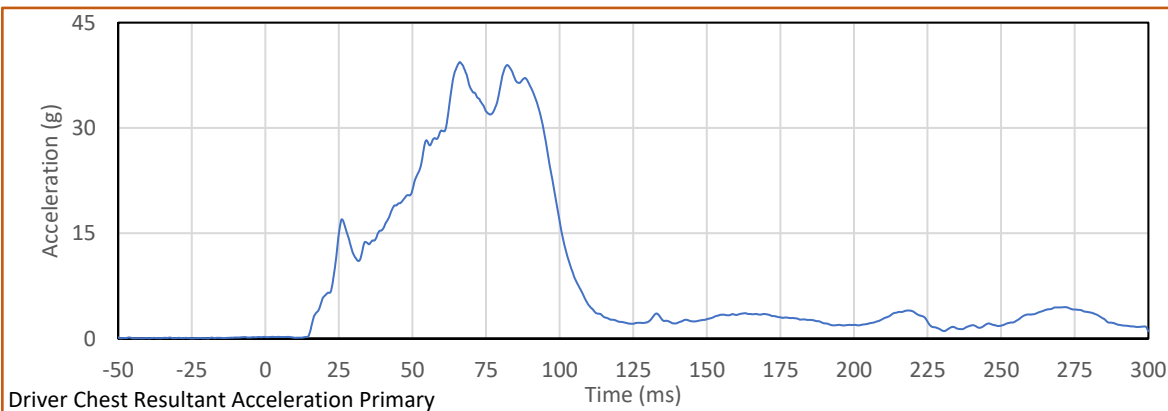
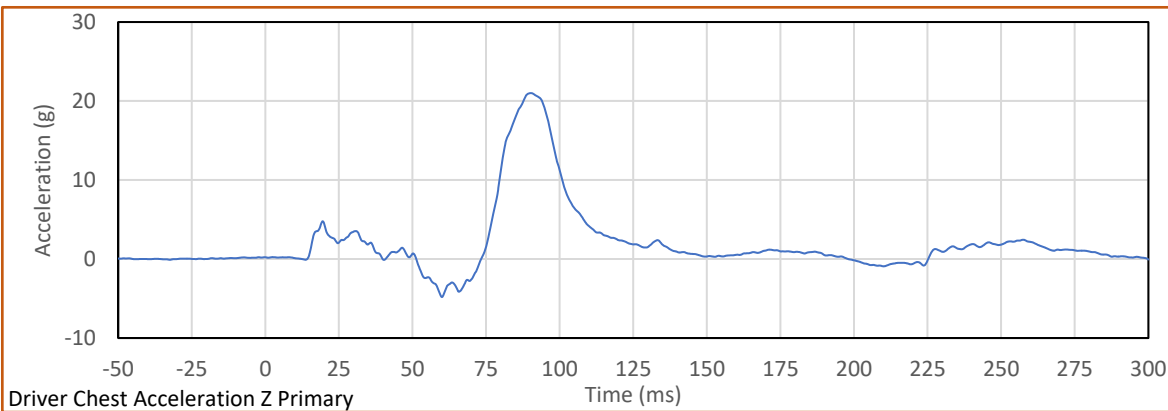
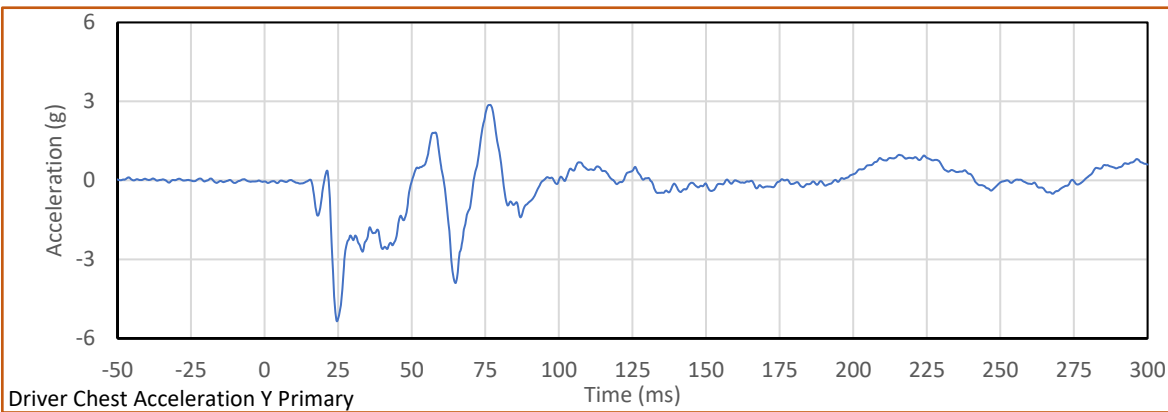
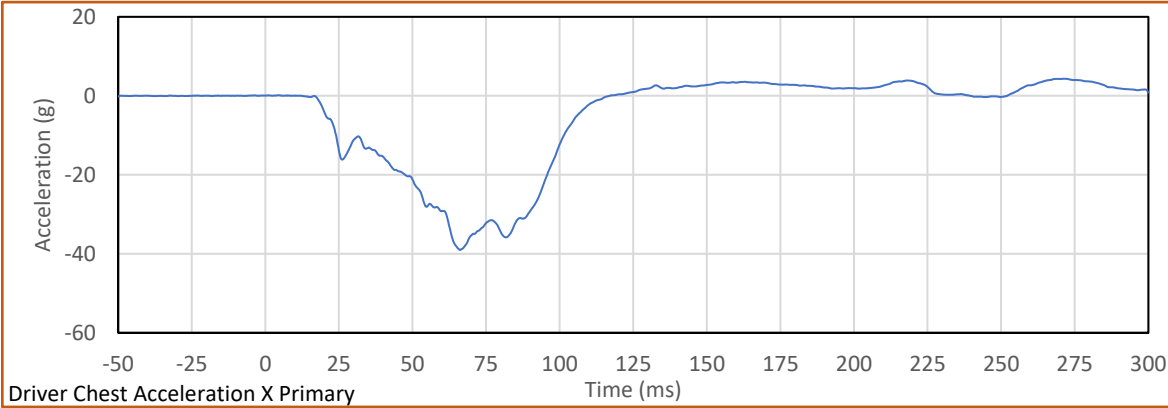


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Test Program: 56.3 km/h Frontal Impact NCAP Test

NHTSA No.: M20255800
Test Date: 4/15/2025

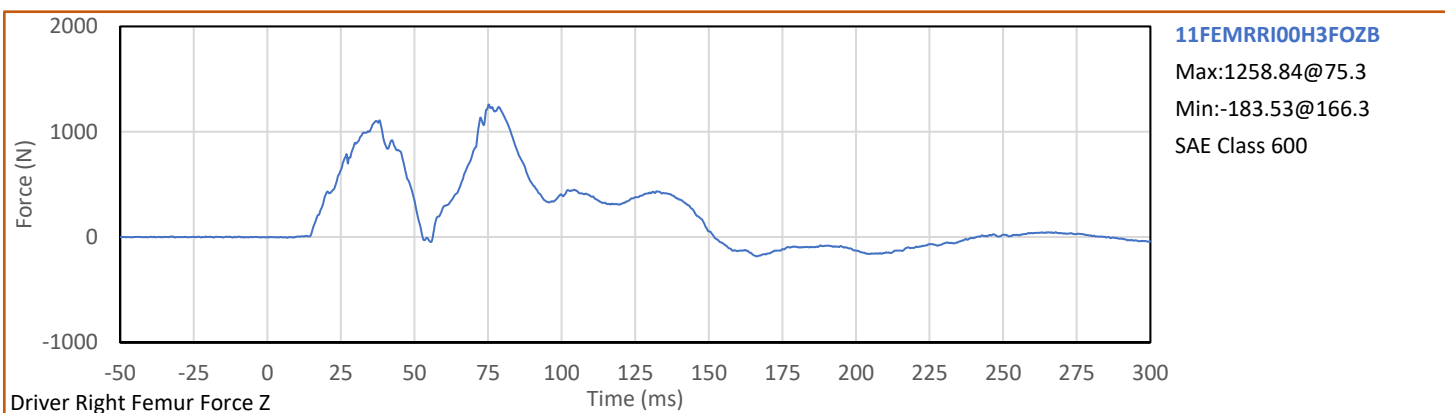
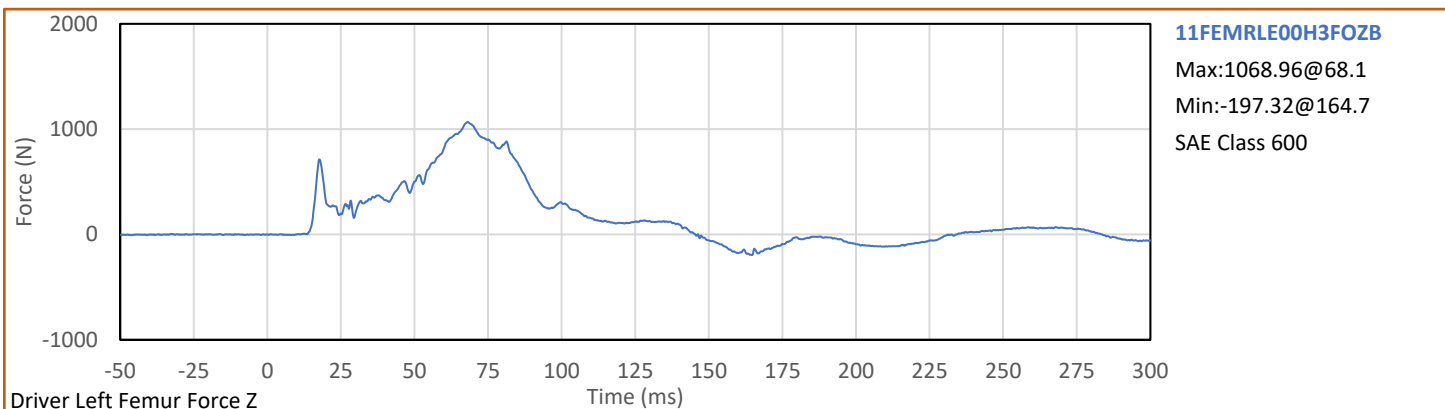


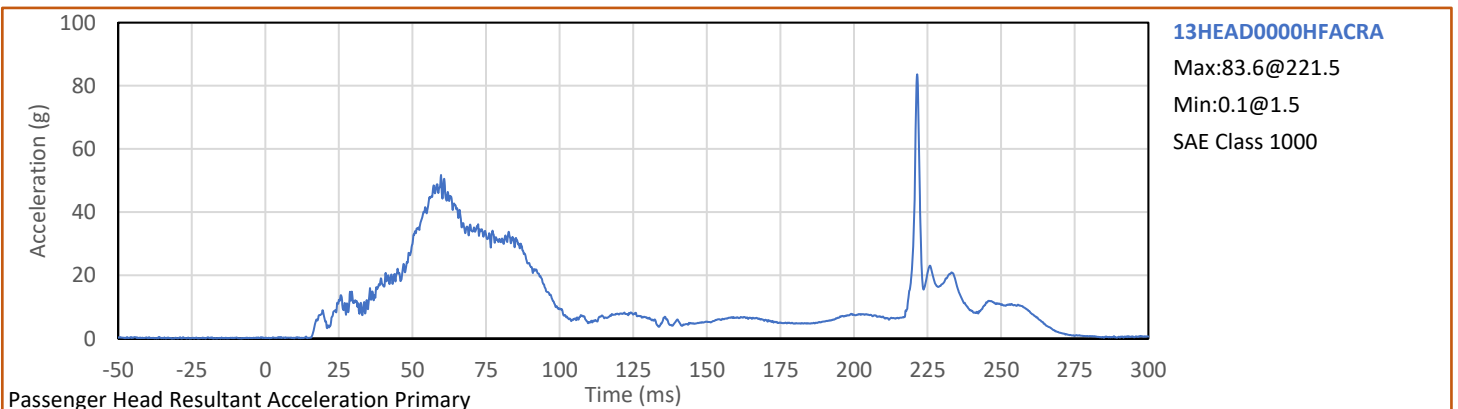
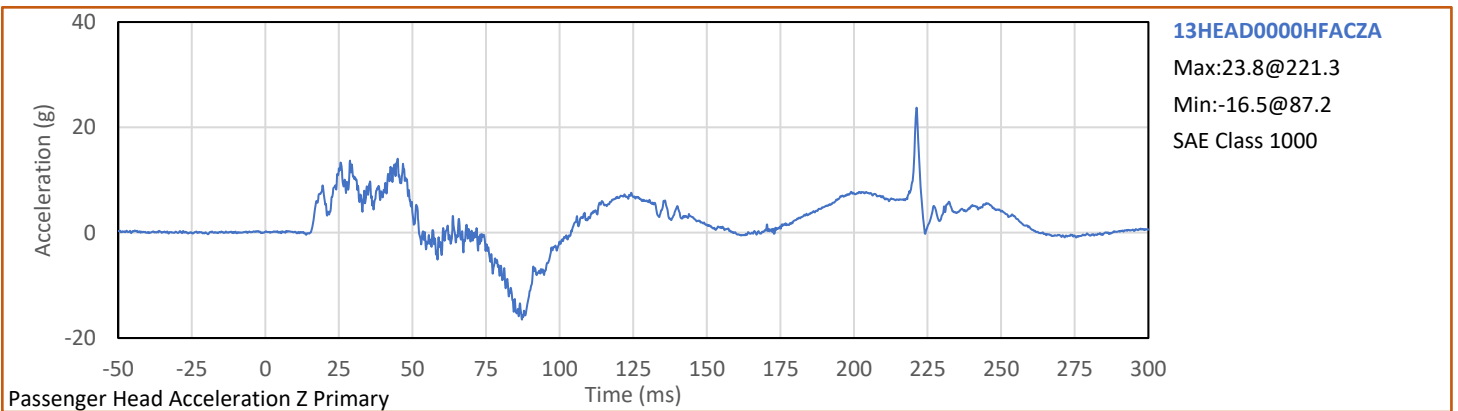
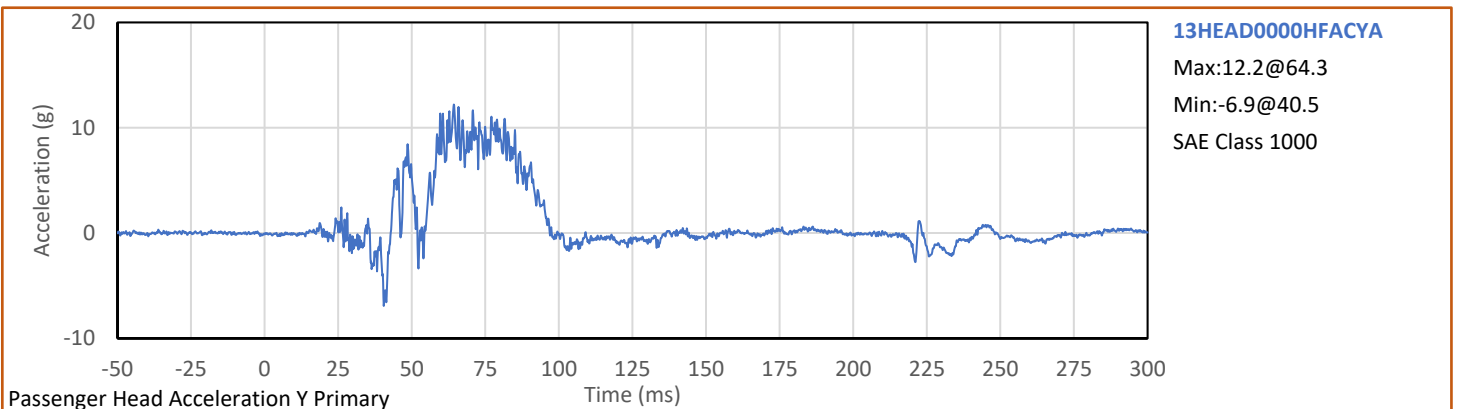
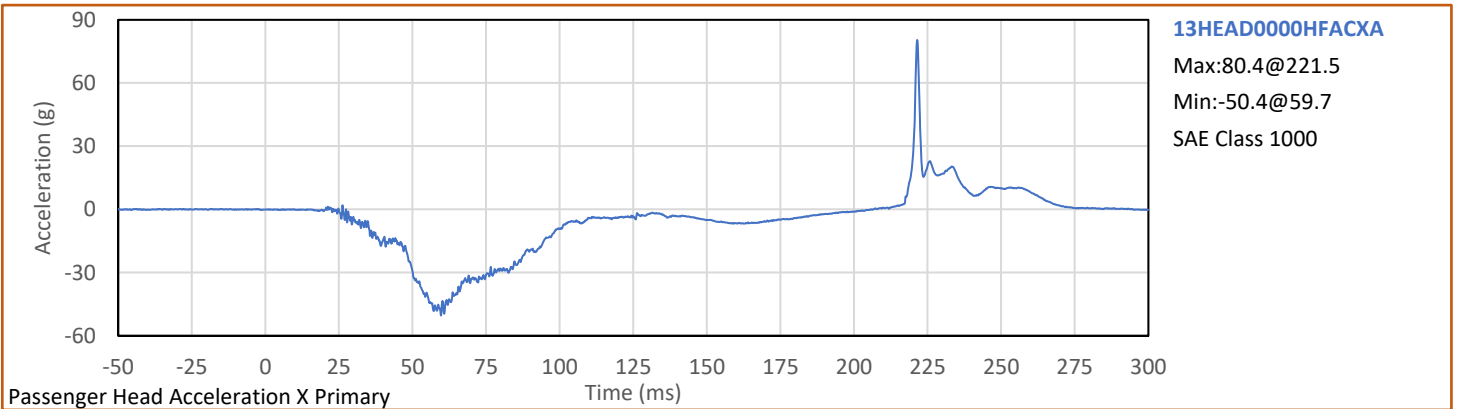




Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV
Test Program: 56.3 km/h Frontal Impact NCAP Test

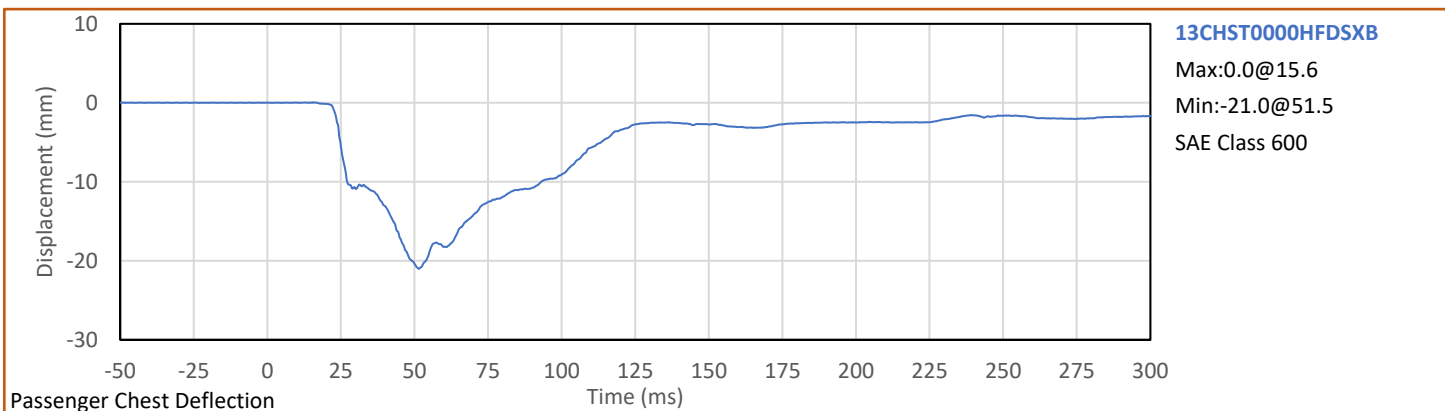
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Test Date: 4/15/2025

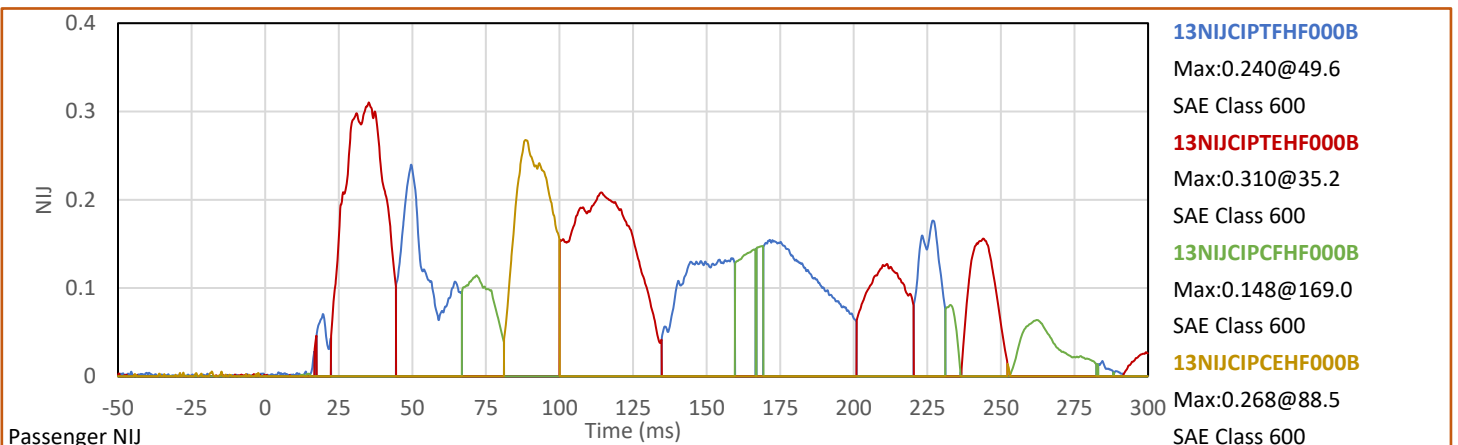
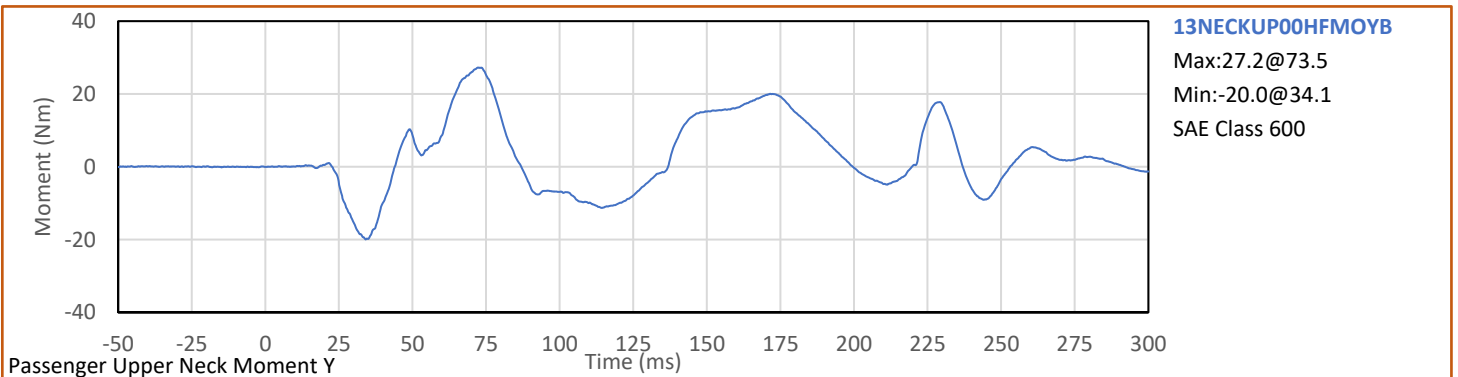
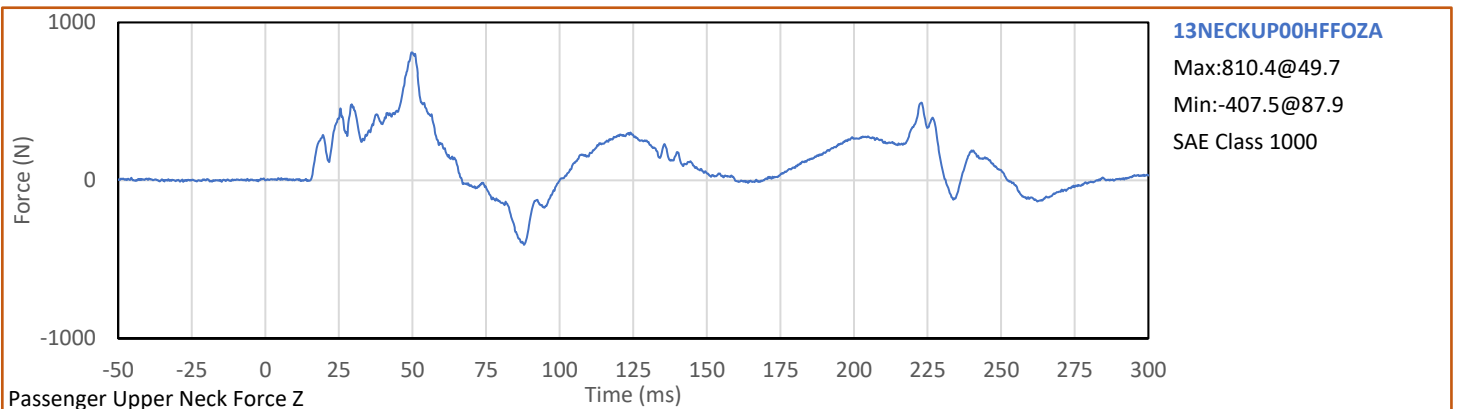
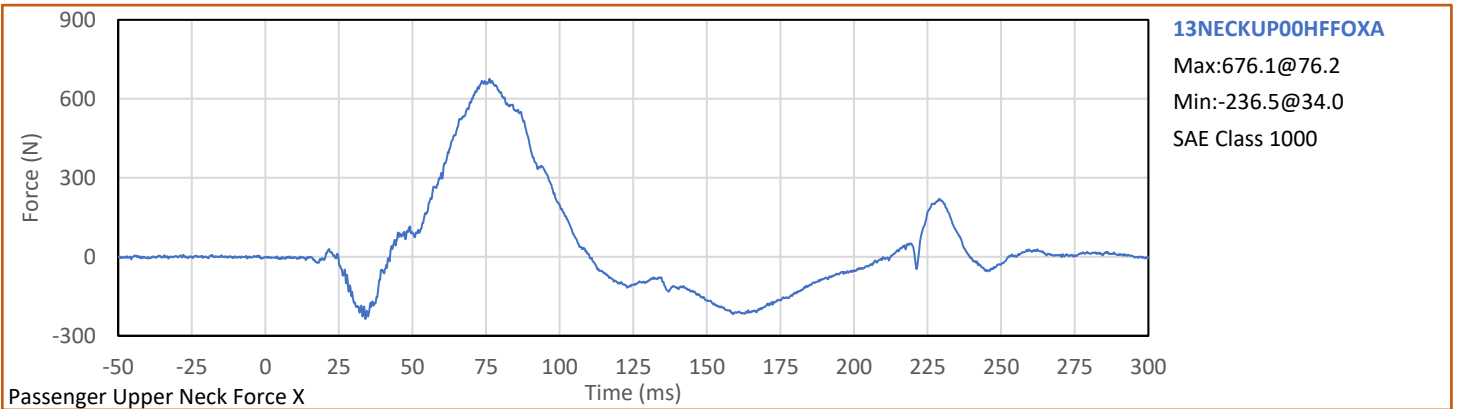


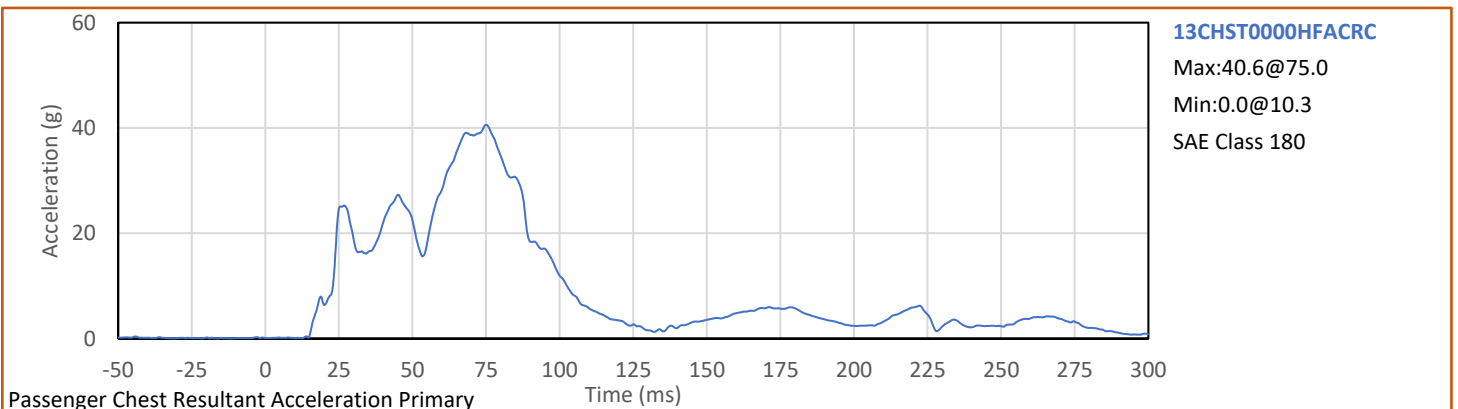
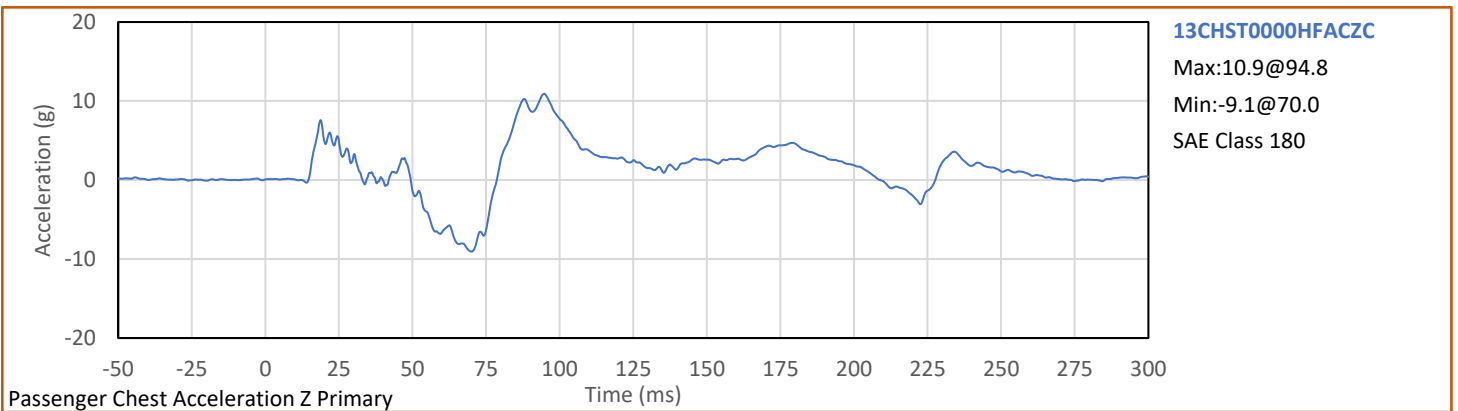
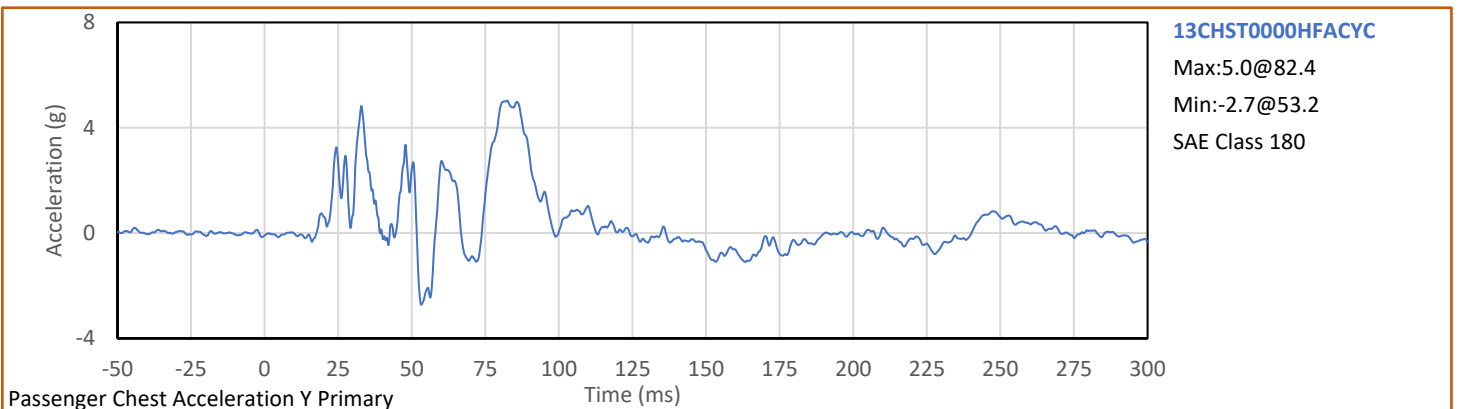
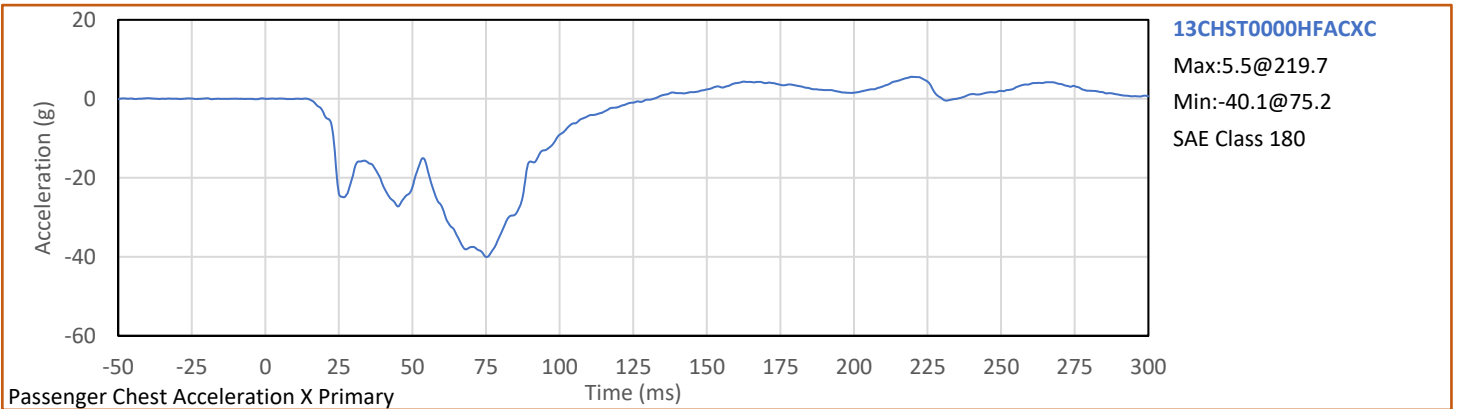


Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV
Test Program: 56.3 km/h Frontal Impact NCAP Test

NHTSA No.: M20255800
Test Date: 4/15/2025

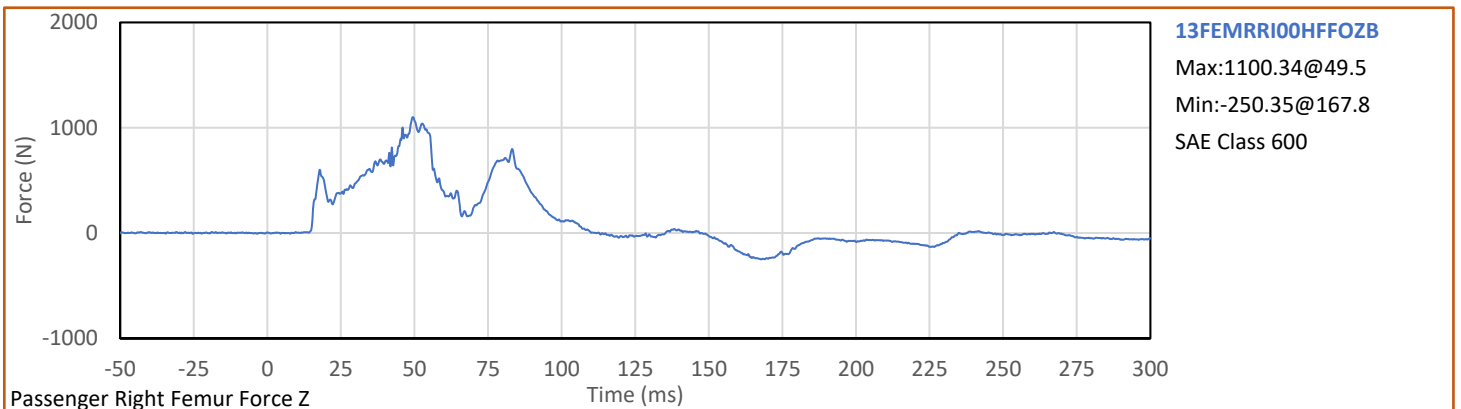
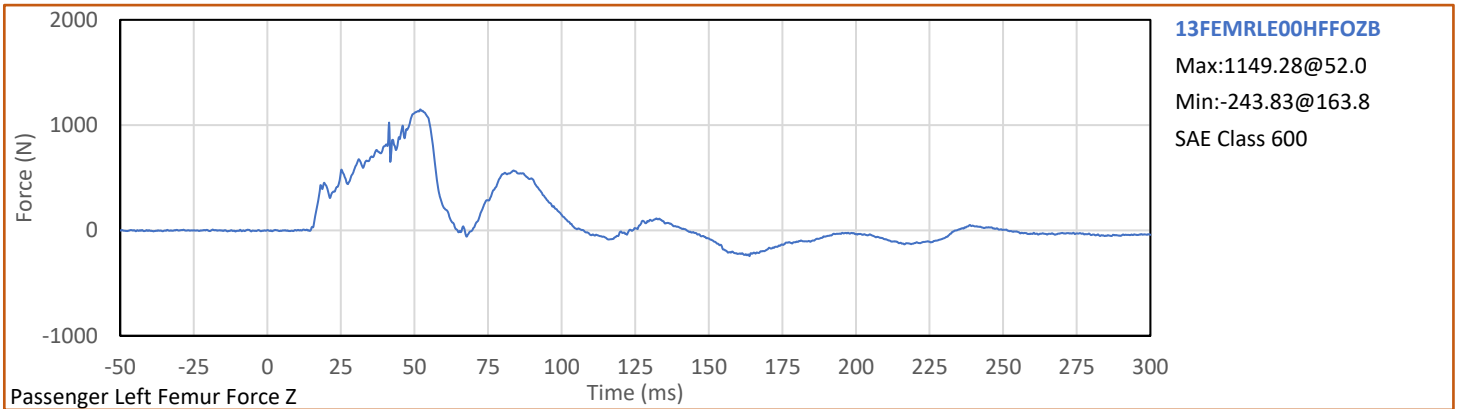






Test Vehicle: 2025 Audi Q6 e-tron 5-Door SUV
Test Program: 56.3 km/h Frontal Impact NCAP Test

NHTSA No.: M20255800
Test Date: 4/15/2025



APPENDIX C
DUMMY QUALIFICATION AND PERFORMANCE VERIFICATION DATA

APPENDIX C
Pre-Test ATD Qualification and Performance Verification
Hybrid III 50th Percentile Male ATD
S/N: 360

ATD Serial No.: 360

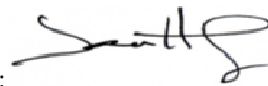
Test Date: 2025-04-09

Dummy Item	Inspect for	Comments	Damage	OK
Entire ATD	Perform general cleaning			✓
Outer Skin	Gashes, rips, cracks			✓
Head	Ballast secure			✓
	General appearance			✓
Neck bracket	Upper neck firmly attached to lower bracket			✓
Neck	Broken or cracked rubber			✓
	Looseness at the condyle joint			✓
Nodding block	Cracked or out of position			✓
Lumbar Spine	Broken or cracked rubber			✓
Ribs	Broken or bent ribs			✓
	Broken or bent rib supports			✓
	Damping material separated or cracked			✓
	Rubber bumpers in place			✓
Chest Displ. Assembly	Bent shaft			✓
	Slider arm riding in track			✓
Sensors	Check cables for cuts, tears			✓
	Check for damaged insulation			✓
Accelerometer Mounting	Head mounting secure			✓
	Chest mounting secure			✓
Knees	Skin condition			✓
	Insert (do not remove)			✓
	Casting			✓
Limbs	Normal movement and adjustment			✓
Knee Sliders	Wires intact			✓
	Rubber returned to "resting" position			✓
Pelvis	Broken			✓
Other	Describe below as needed			✓

Describe any repairs or replacement of parts or other findings:

No Problems Found

Technician: 
J. Perez

Approved By: 
J. Hernandez

ATD Serial No.: 360

Test Date: 2025-04-09

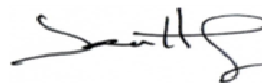
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
A - Total sitting height	mm	879	889	882	Pass
B - Shoulder pivot height	mm	505	521	516	Pass
C - 'H' point height	mm	84	89	86	Pass
D - 'H' point location from backline	mm	135	140	138	Pass
E - Shoulder pivot from backline	mm	84	94	88	Pass
F - Thigh clearance	mm	140	155	150	Pass
G - Back of elbow to wrist pivot	mm	290	305	299	Pass
H - Head back to backline	mm	41	46	43	Pass
I - Shoulder to elbow length	mm	330	345	338	Pass
J - Elbow rest height	mm	190	211	206	Pass
K - Buttock to knee length	mm	579	604	596	Pass
L - Popliteal length	mm	429	455	442	Pass
M - Knee pivot height	mm	485	500	493	Pass
N - Buttock popliteal length	mm	452	477	463	Pass
O - Chest depth without jacket	mm	213	229	219	Pass
P - Foot length	mm	251	267	255	Pass
V - Shoulder breadth	mm	422	437	434	Pass
W - Foot breadth	mm	91	107	99	Pass
Y - Chest circum. (w/chest jacket)	mm	970	1001	982	Pass
Z - Waist circum.	mm	836	866	849	Pass
AA - Location for chest circum.	mm	429	434	431	Pass
BB - Location for waist circum.	mm	226	231	229	Pass
			Overall Test Results		Pass

Technician.



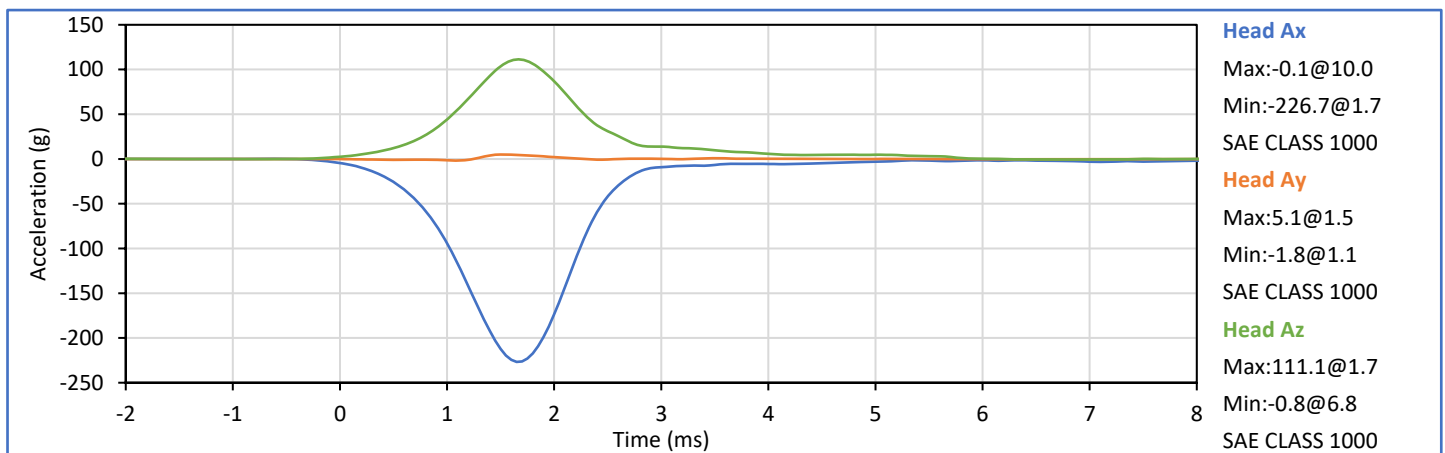
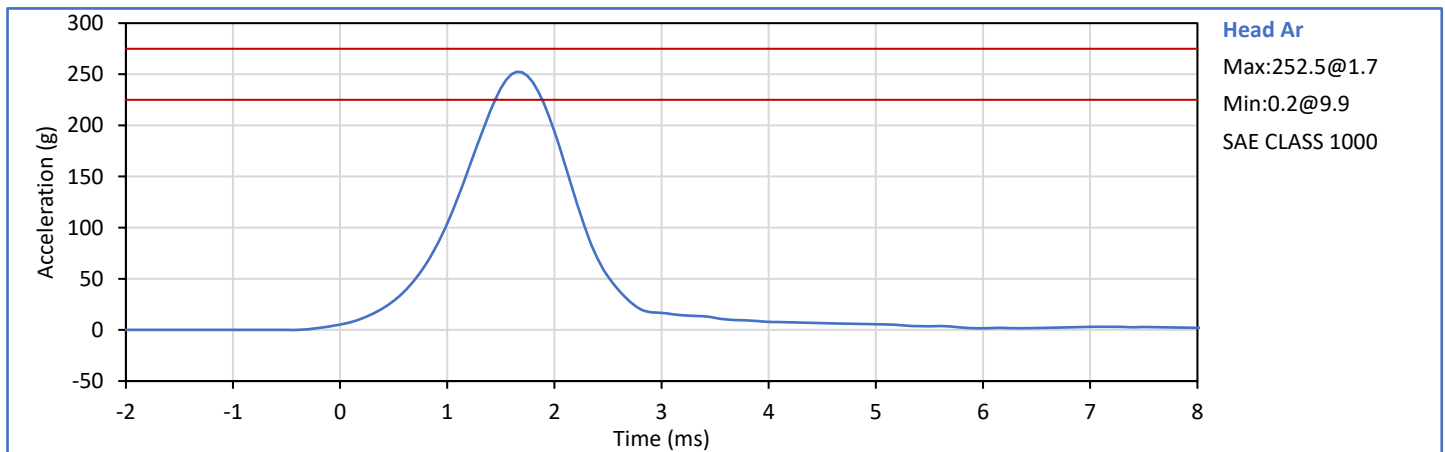
J. Perez

Approved By:



J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.8	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Peak Resultant Acceleration	g	225.0	275.0	252.5	Pass
Peak Lateral Acceleration	g	-15.0	15.0	5.1	Pass
Oscillations After Main Pulse	%	0.0	10.0	0.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician:

J. Perez

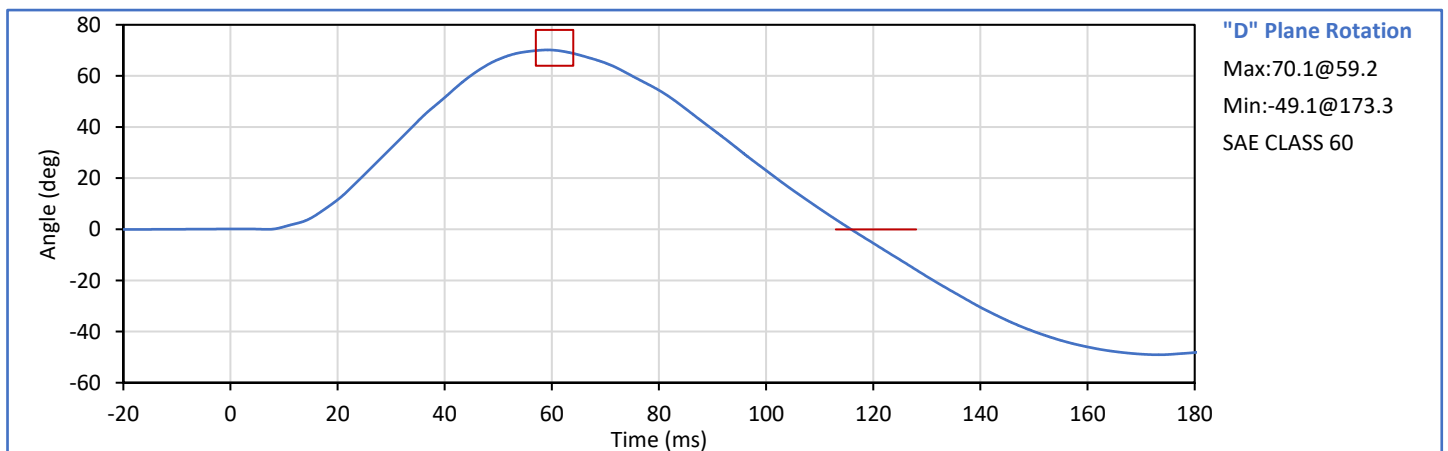
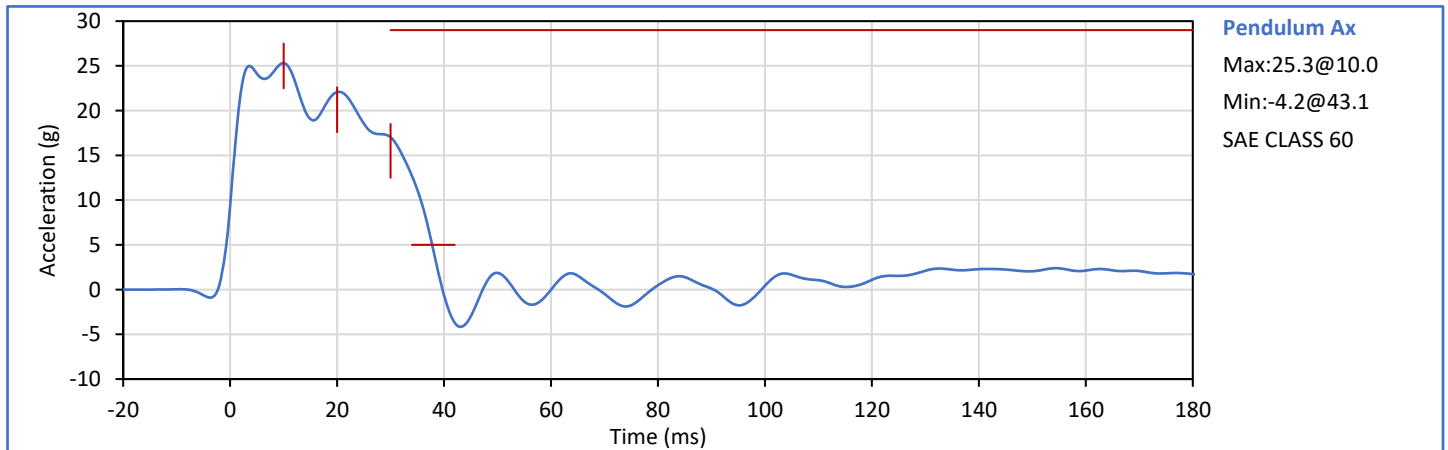
J. Perez

Approved By:

J. Hernandez

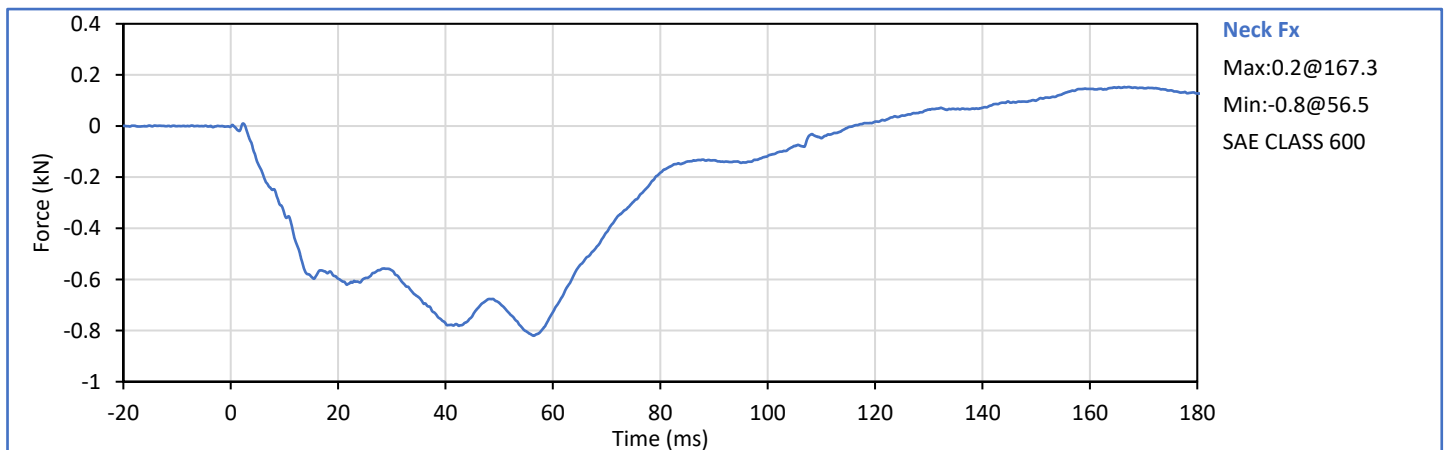
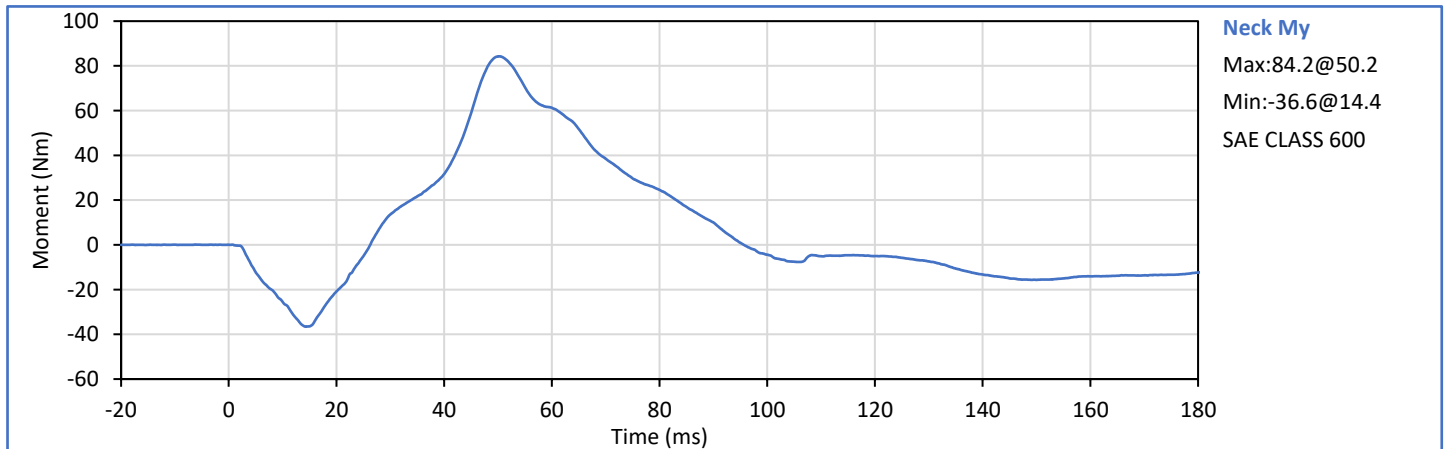
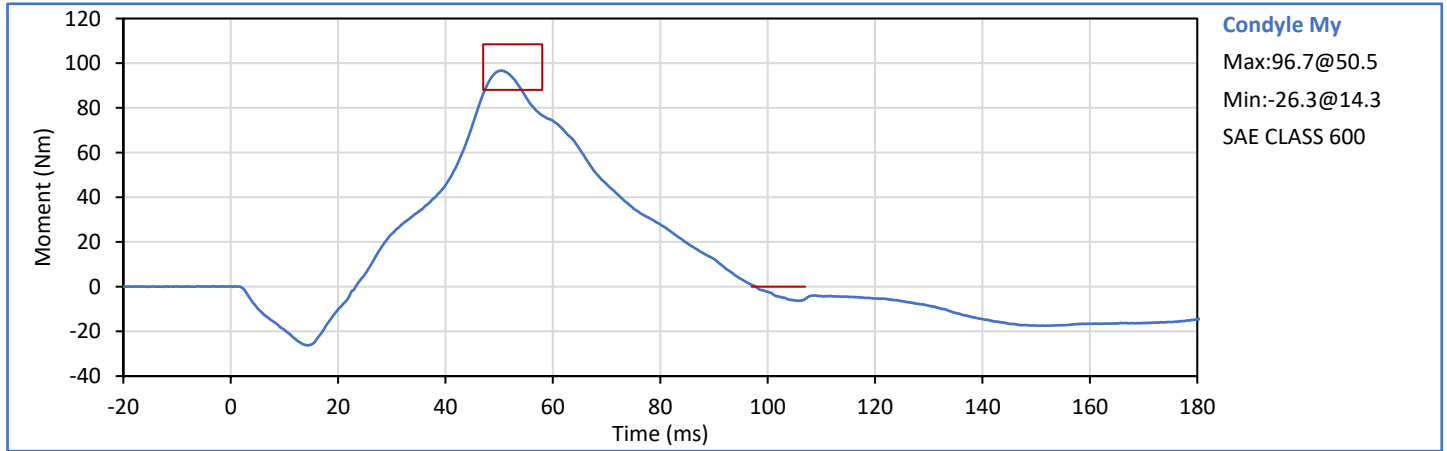
J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Pendulum Velocity	m/s	6.89	7.13	7.04	Pass
Pendulum Deceleration at 10 ms	g	22.5	27.5	25.3	Pass
Pendulum Deceleration at 20 ms	g	17.6	22.6	22.1	Pass
Pendulum Deceleration at 30 ms	g	12.5	18.5	17.0	Pass
Peak Pendulum Decel After 30 ms	g	0.0	29.0	17.0	Pass
Deceleration Decay to Cross 5g	ms	34.0	42.0	37.8	Pass
"D" Plane Rotation peak	deg	64.0	78.0	70.1	Pass
	ms	57.0	64.0	59.2	Pass
"D" Plane Rotation Decay to Zero	ms	113.0	128.0	115.9	Pass
Moment About Occipital Condyle	Nm	88.1	108.5	96.7	Pass
	ms	47.0	58.0	50.5	Pass
Moment Decay, Peak to Zero	ms	97.0	107.0	97.8	Pass
Overall Test Results				Pass	

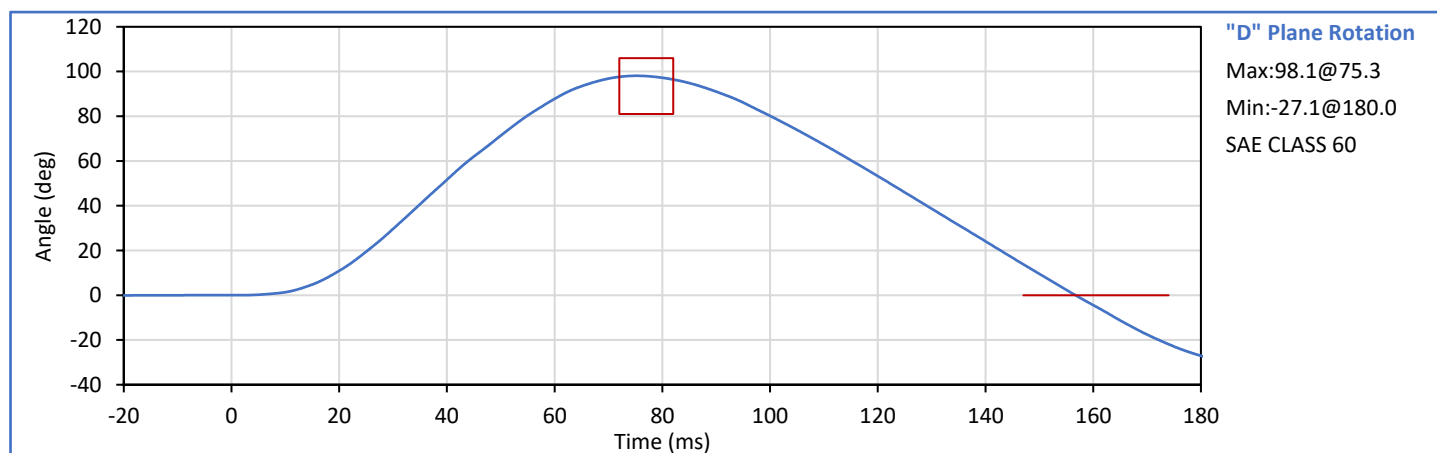
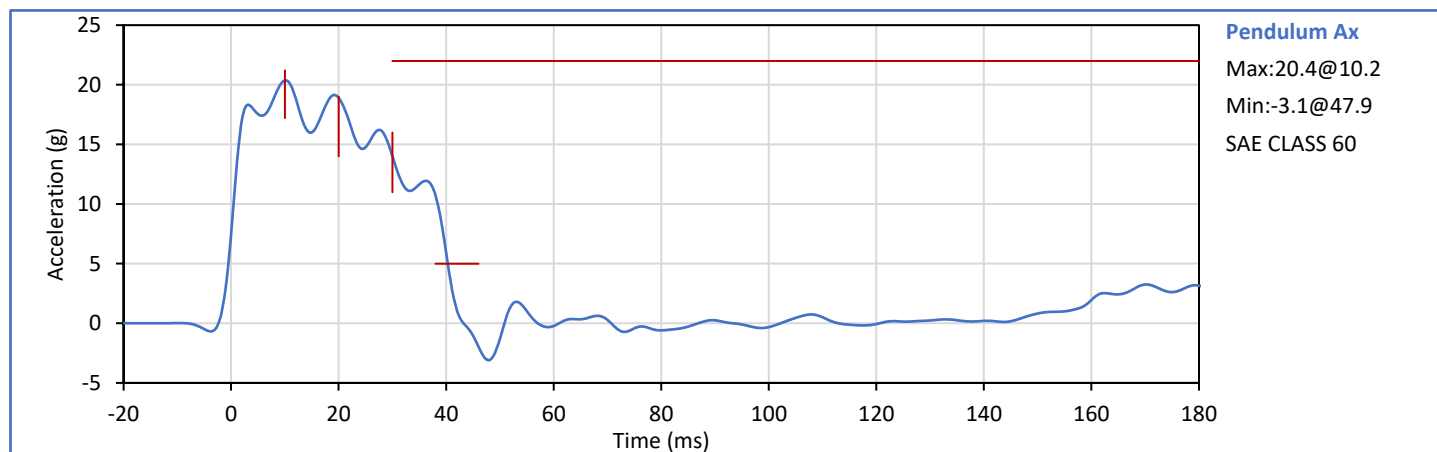


Technician: J. Perez

Approved By: J. Hernandez

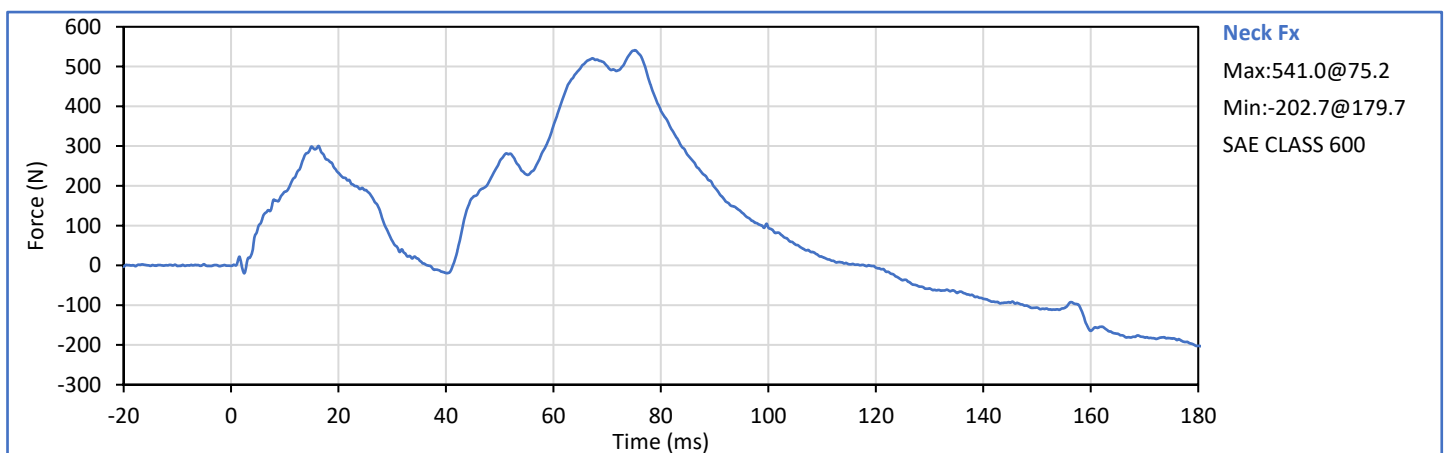
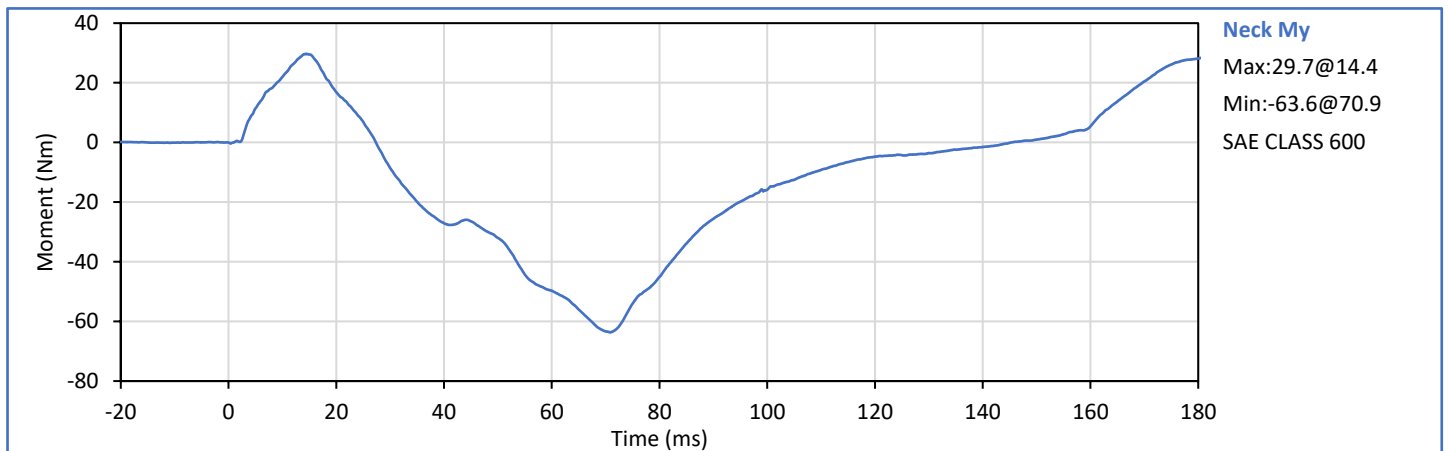
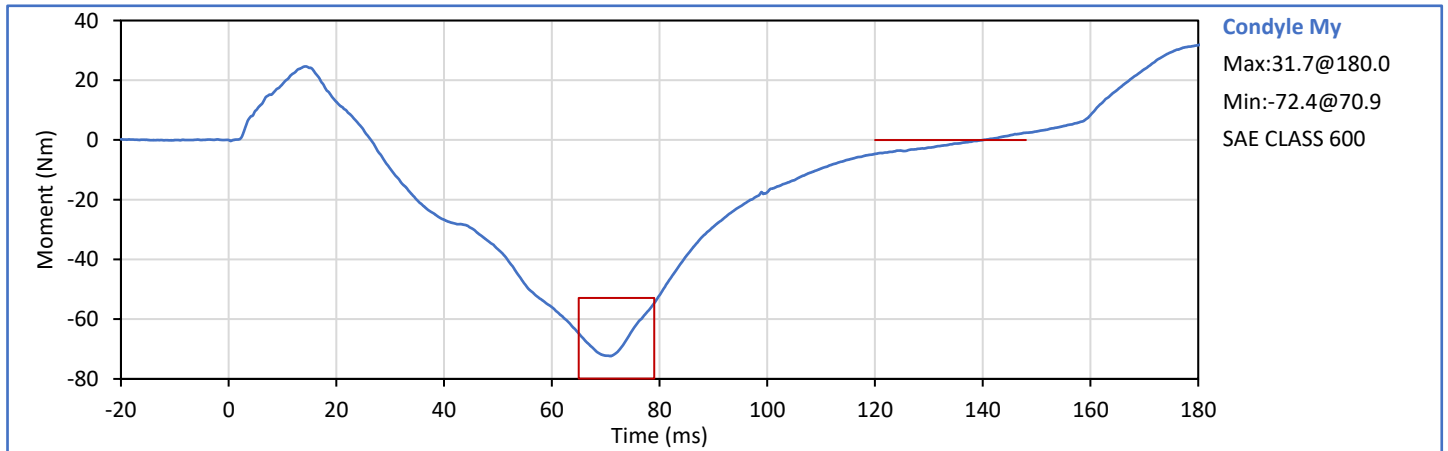


Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Pendulum Velocity	m/s	5.94	6.19	6.07	Pass
Pendulum Deceleration at 10 ms	g	17.2	21.2	20.4	Pass
Pendulum Deceleration at 20 ms	g	14.0	19.0	18.9	Pass
Pendulum Deceleration at 30 ms	g	11.0	16.0	14.0	Pass
Peak Pendulum Decel After 30 ms	g	0.0	22.0	14.0	Pass
Deceleration Decay to Cross 5g	ms	38.0	46.0	40.3	Pass
"D" Plane Rotation peak	deg	81.0	106.0	98.1	Pass
	ms	72.0	82.0	75.3	Pass
"D" Plane Rotation Decay to Zero	ms	147.0	174.0	156.8	Pass
Moment About Occipital Condyle	Nm	-79.9	-52.9	-72.4	Pass
	ms	65.0	79.0	70.9	Pass
Moment Decay, Peak to Zero	ms	120.0	148.0	140.2	Pass
Overall Test Results				Pass	

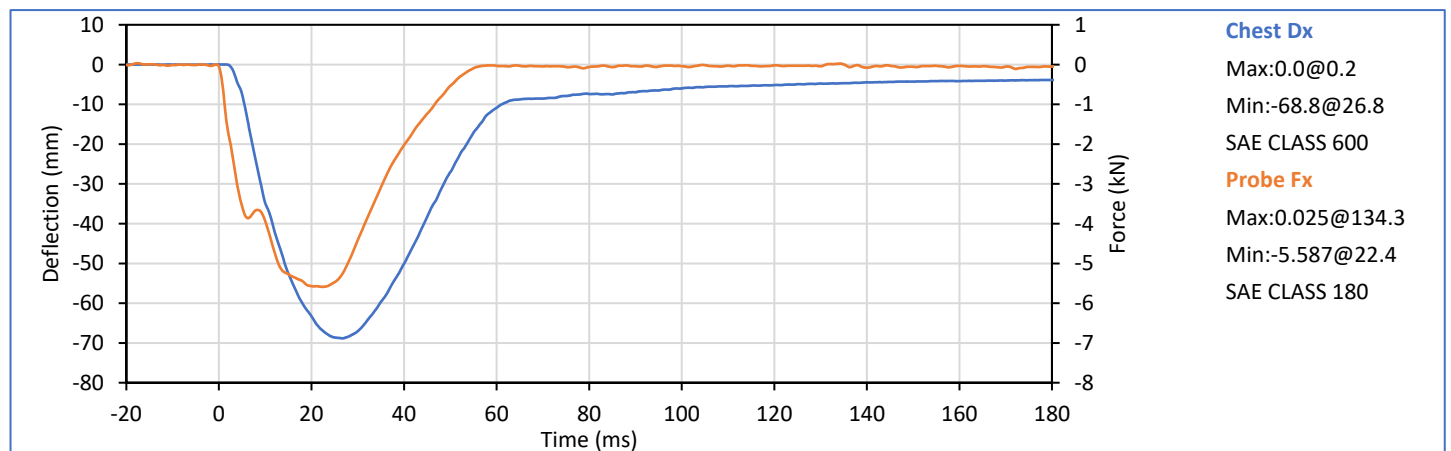
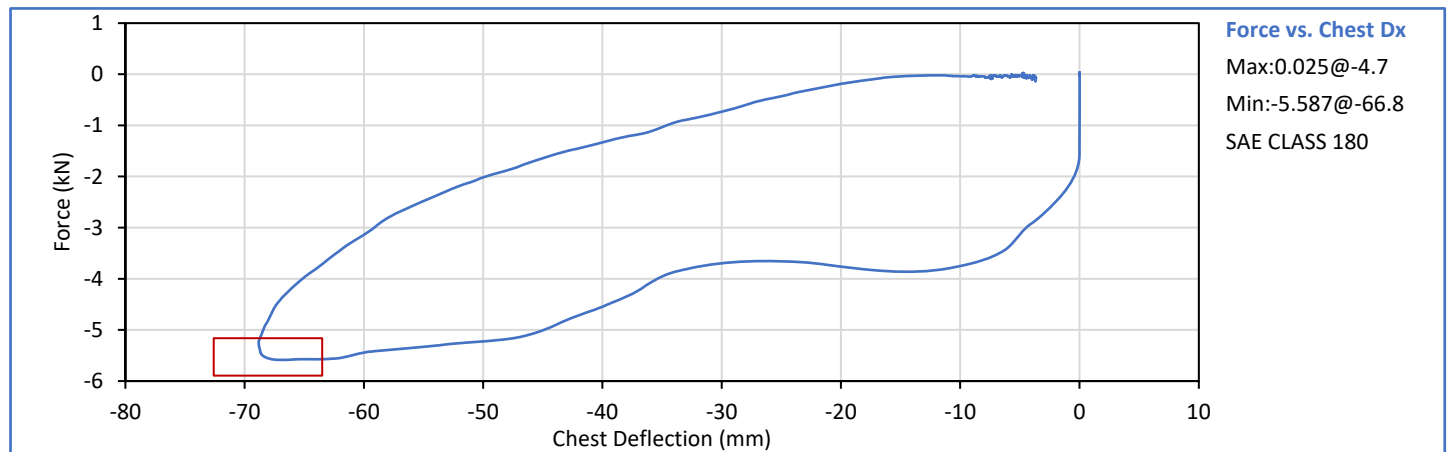


Technician: J. Perez

Approved By: J. Hernandez



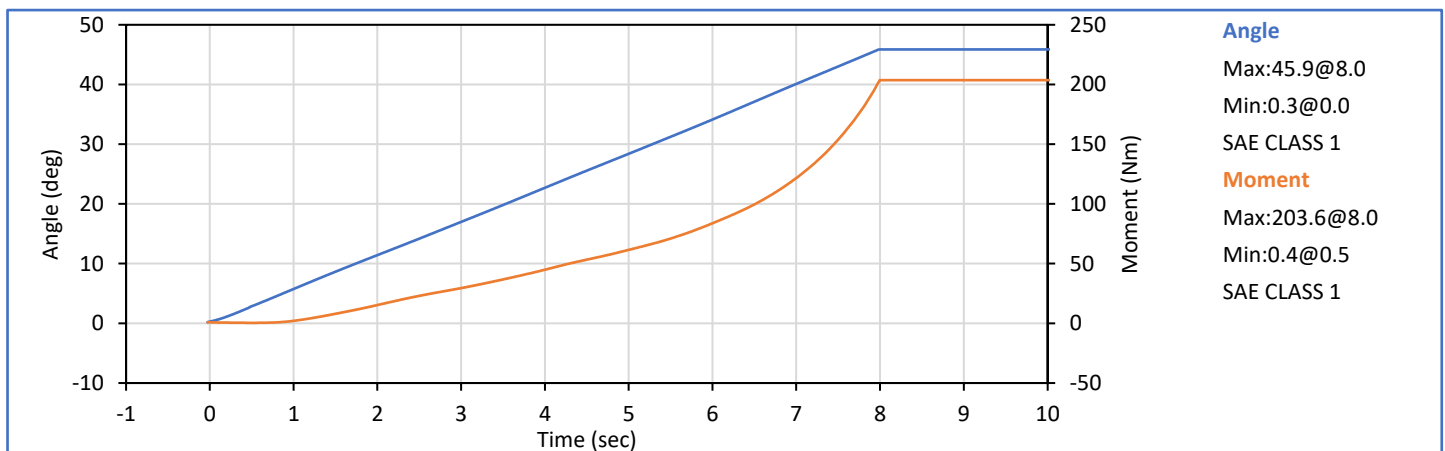
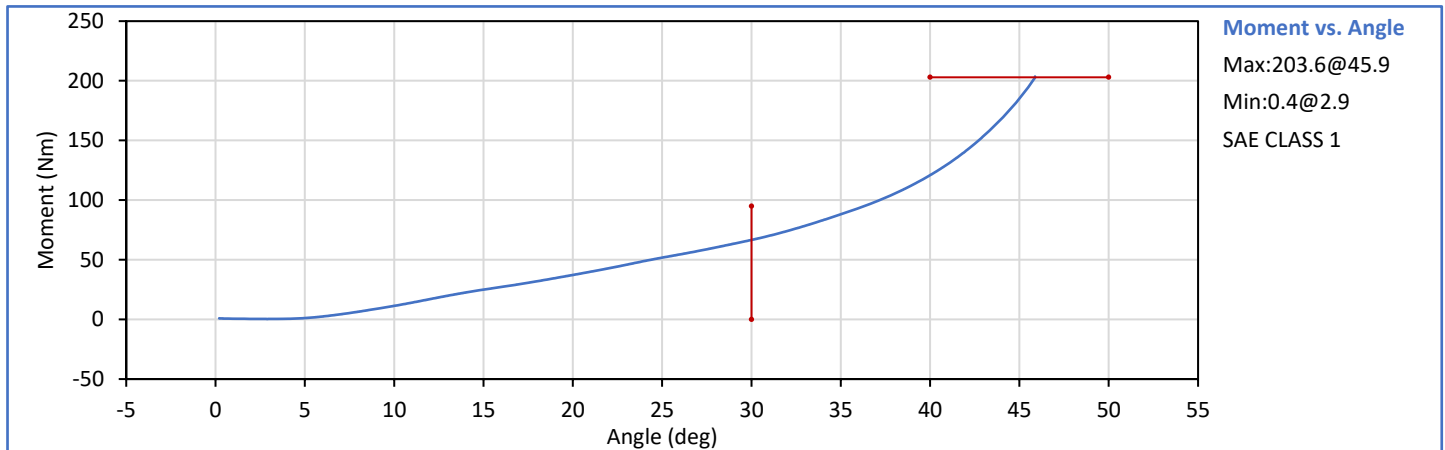
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Probe Velocity	m/s	6.58	6.82	6.72	Pass
Peak Chest Deflection	mm	-72.6	-63.5	-68.8	Pass
Peak Probe Force	kN	-5.893	-5.159	-5.587	Pass
Internal Hysteresis	%	69.0	85.0	69.1	Pass
Overall Test Results				Pass	Pass



Technician: J. Perez

Approved By: J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.8	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Left Hip Rotation Rate	deg/s	5.0	10.0	5.7	Pass
Left Femur Torque at 30°	Nm	0.0	95.0	66.6	Pass
Left Hip Rotation at 203 Nm	deg	40.0	50.0	45.9	Pass
Overall Test Results					Pass



Technician:

J. Perez

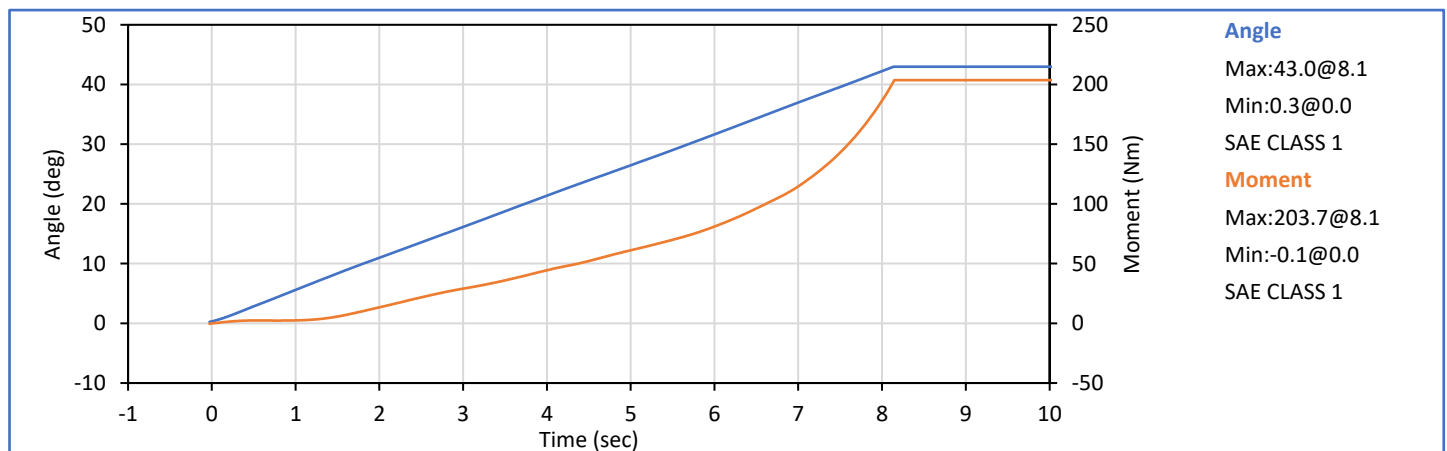
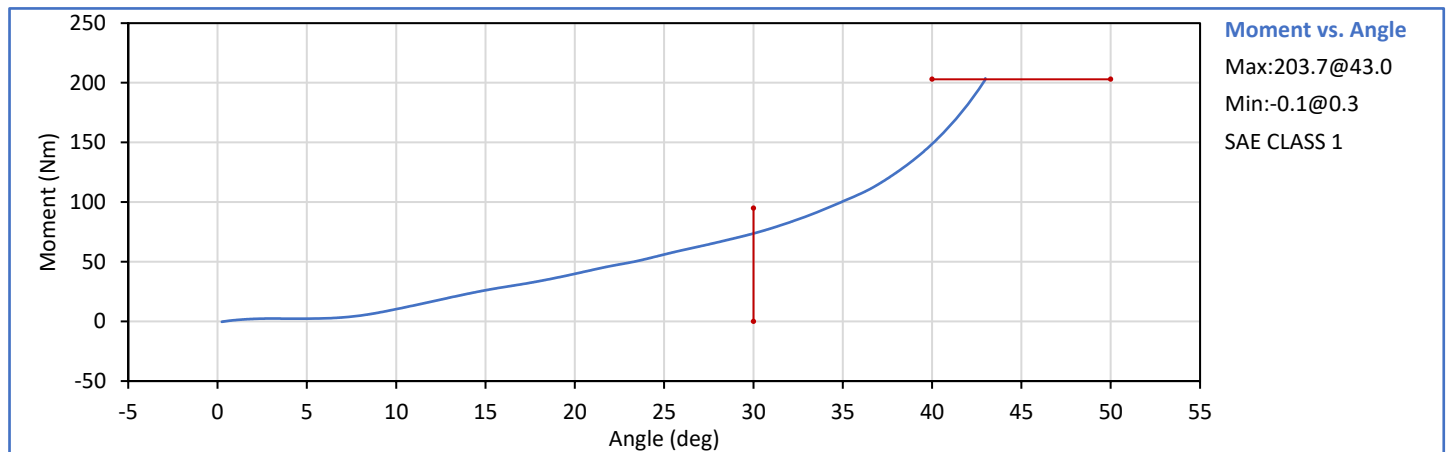
J. Perez

Approved By:

J. Hernandez

J. Hernandez

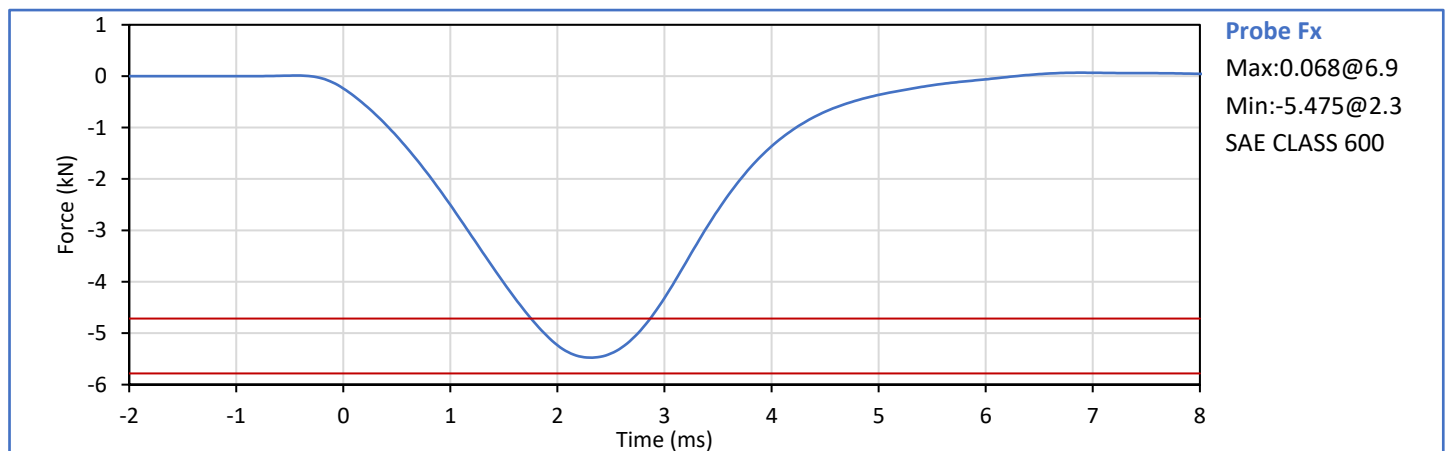
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.8	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Right Hip Rotation Rate	deg/s	5.0	10.0	5.3	Pass
Right Femur Torque at 30°	Nm	0.0	95.0	73.7	Pass
Right Hip Rotation at 203 Nm	deg	40.0	50.0	43.0	Pass
Overall Test Results					Pass



Technician: J. Perez

Approved By: J. Hernandez

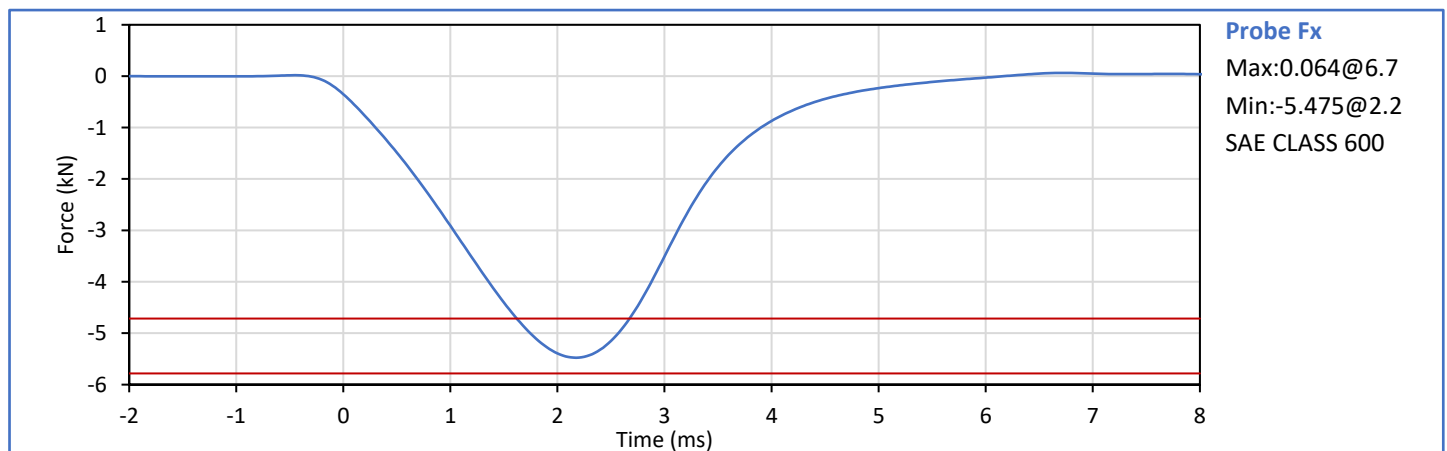
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.7	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Probe Velocity	m/s	2.070	2.130	2.109	Pass
Peak Resistive Force	kN	-5.782	-4.715	-5.475	Pass
Overall Test Results					Pass



Technician: J. Perez

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	38	Pass
Probe Velocity	m/s	2.070	2.130	2.105	Pass
Peak Resistive Force	kN	-5.782	-4.715	-5.475	Pass
Overall Test Results					Pass



Technician: J. Perez

Approved By: J. Hernandez

APPENDIX C
Pre-Test ATD Qualification and Performance Verification
Hybrid III 5th Percentile Female ATD
S/N: DH1644

ATD Serial No.: DH1644

Test Date: 2025-04-07

Dummy Item	Inspect for	Comments	Damage	Okay
Entire ATD	Perform general cleaning			✓
Outer Skin	Gashes, rips, cracks			✓
Head	Ballast secure			✓
	General appearance			✓
Neck bracket	Upper neck firmly attached to lower bracket			✓
Neck	Broken or cracked rubber			✓
	Looseness at the condyle joint			✓
Nodding block	Cracked or out of position			✓
Lumbar Spine	Broken or cracked rubber			✓
Ribs	Broken or bent ribs			✓
	Broken or bent rib supports			✓
	Damping material separated or cracked			✓
	Rubber bumpers in place			✓
Chest Displ.	Bent shaft			✓
Assembly	Slider arm riding in track			✓
Sensors	Check cables for cuts, tears			✓
	Check for damaged insulation			✓
Accelerometer	Head mounting secure			✓
Mounting	Chest mounting secure			✓
Knees	Skin condition			✓
	Insert (do not remove)			✓
	Casting			✓
Limbs	Normal movement and adjustment			✓
Knee Sliders	Wires intact			✓
	Rubber returned to "resting" position			✓
Pelvis	Broken			✓
Other	Describe below as needed			✓

Describe any repairs or replacement of parts or other findings:

No Problems Found

Technician:



J. Perez

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	37	Pass
A - Total sitting height	mm	775	800	787	Pass
B - Shoulder pivot height	mm	432	457	444	Pass
C - 'H' point height	mm	81	86	86	Pass
D - 'H' point location from backline	mm	145	150	148	Pass
E - Shoulder pivot from backline	mm	69	84	74	Pass
F - Thigh clearance	mm	119	135	128	Pass
G - Back of elbow to wrist pivot	mm	244	259	251	Pass
H - Head back to backline	mm	41	46	45	Pass
I - Shoulder to elbow length	mm	277	297	291	Pass
J - Elbow rest height	mm	183	203	192	Pass
K - Buttock to knee length	mm	521	546	530	Pass
L - Popliteal length	mm	356	376	366	Pass
M - Knee pivot height	mm	394	419	406	Pass
N - Buttock popliteal length	mm	414	439	426	Pass
O - Chest depth without jacket	mm	175	191	181	Pass
P - Foot length	mm	219	234	224	Pass
R - Buttock to Knee Pivot Length	mm	457	483	476	Pass
S - Head Breadth	mm	137	147	142	Pass
T - Head Depth	mm	178	188	184	Pass
U - Hip Breadth	mm	300	315	308	Pass
V - Shoulder breadth	mm	351	366	356	Pass
W - Foot breadth	mm	79	94	83	Pass
X - Head circum.	mm	528	549	536	Pass
Y - Chest circum. (w/chest jacket)	mm	851	881	874	Pass
Z - Waist circum.	mm	760	790	776	Pass
AA - Location for chest circum.	mm	333	358	340	Pass
BB - Location for waist circum.	mm	160	170	164	Pass
			Overall Test Results		Pass

Technician:



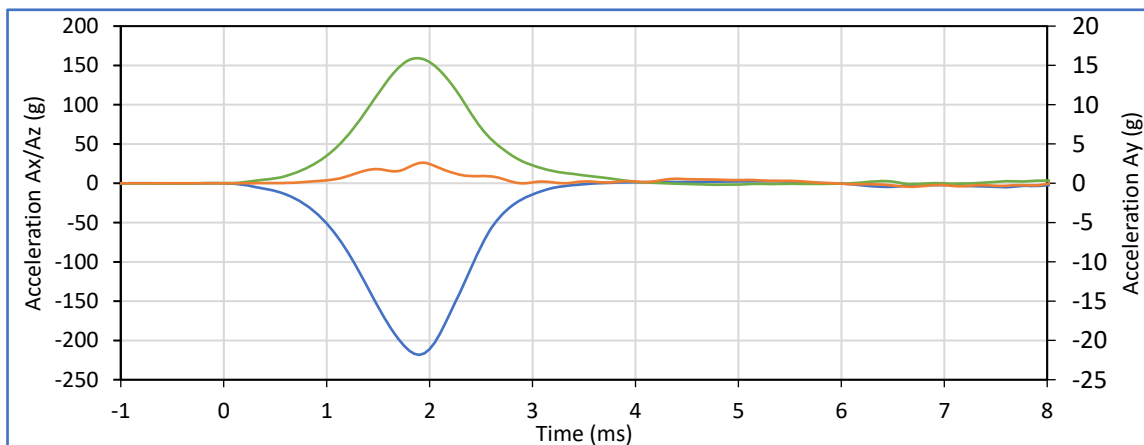
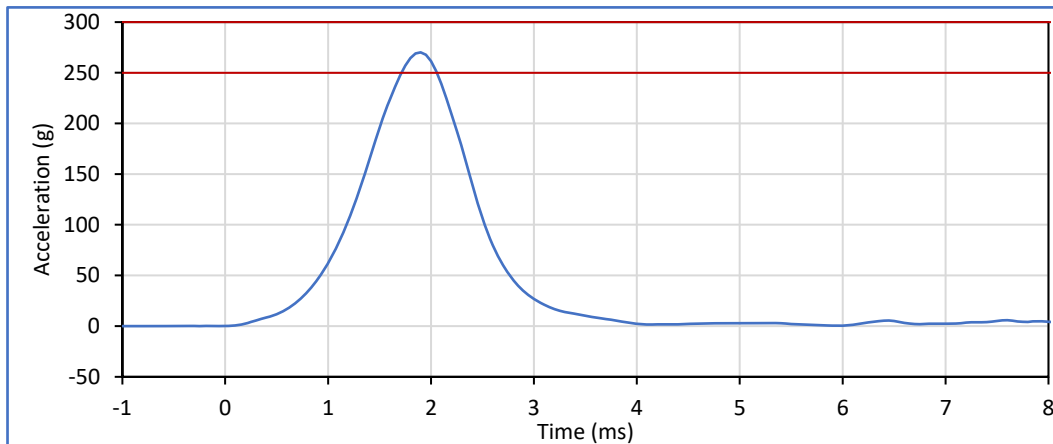
J. Perez

Approved By:



J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.5	Pass
Laboratory Humidity	%	10	70	38	Pass
Peak Resultant Acceleration	g	250.0	300.0	270.2	Pass
Peak Lateral Acceleration	g	-15.0	15.0	2.6	Pass
Oscillations After Main Pulse	%	0.0	10.0	2.1	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician:

J. Perez

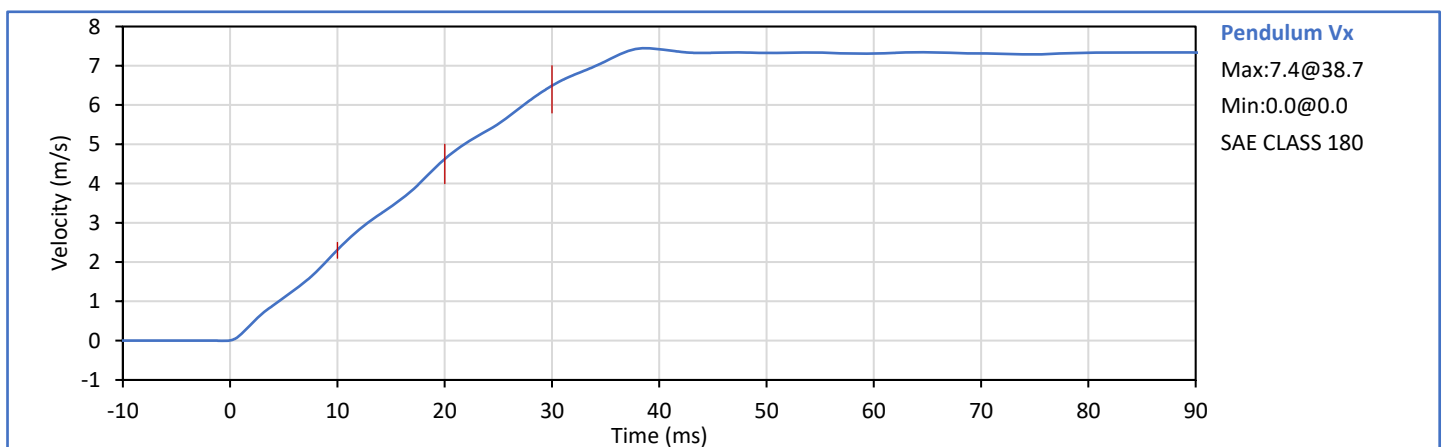
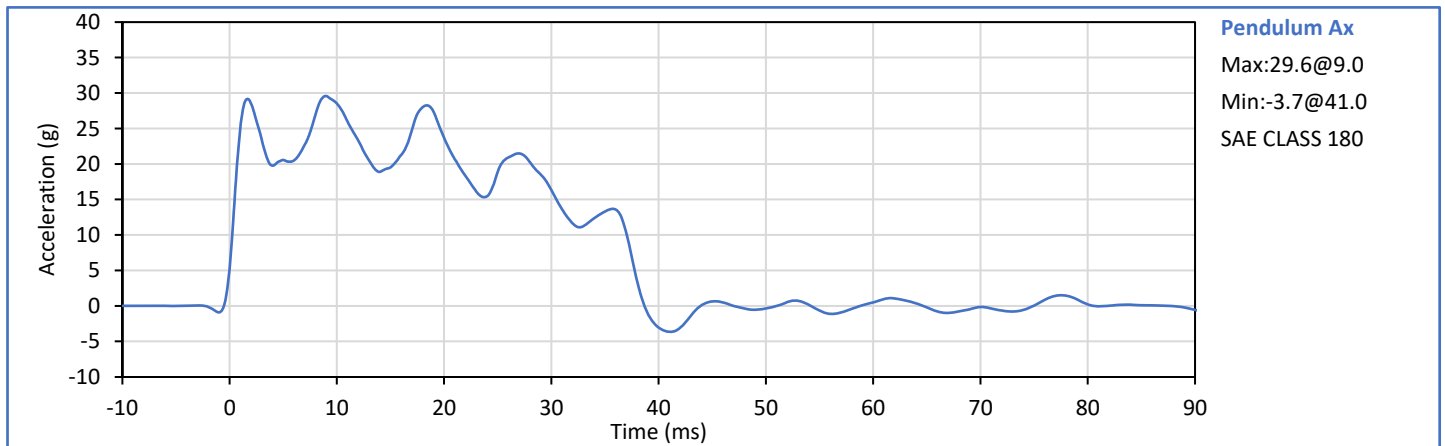
J. Perez

Approved By:

J. Hernandez

J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Humidity	%	10	70	37	Pass
Pendulum Velocity	m/s	6.89	7.13	7.04	Pass
Pendulum Velocity at 10 ms	m/s	2.10	2.50	2.31	Pass
Pendulum Velocity at 20 ms	m/s	4.00	5.00	4.62	Pass
Pendulum Velocity at 30 ms	m/s	5.80	7.00	6.49	Pass
Peak "D" Plane Rotation	deg	77.0	91.0	83.4	Pass
Peak Moment in Rotation	Nm	69.0	83.0	75.9	Pass
Positive Moment Decay to 10 Nm	ms	80.0	100.0	85.0	Pass
Overall Test Results					Pass



Technician:

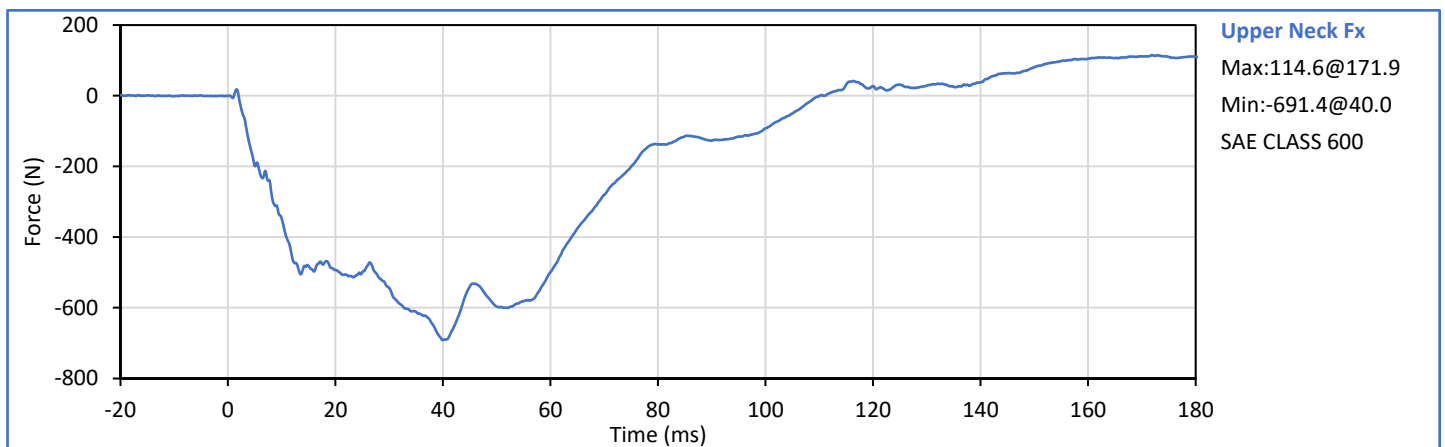
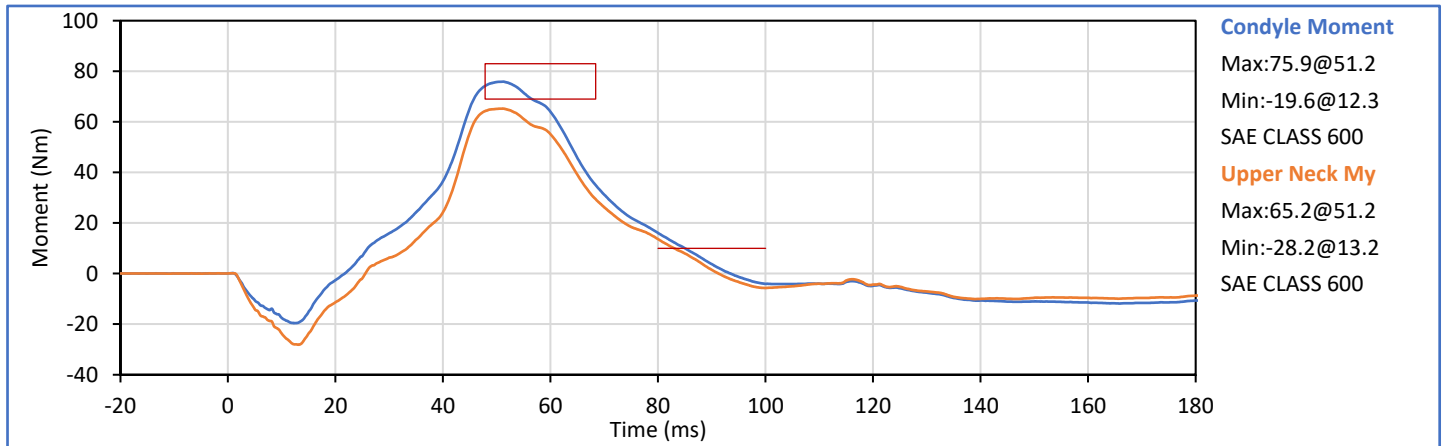
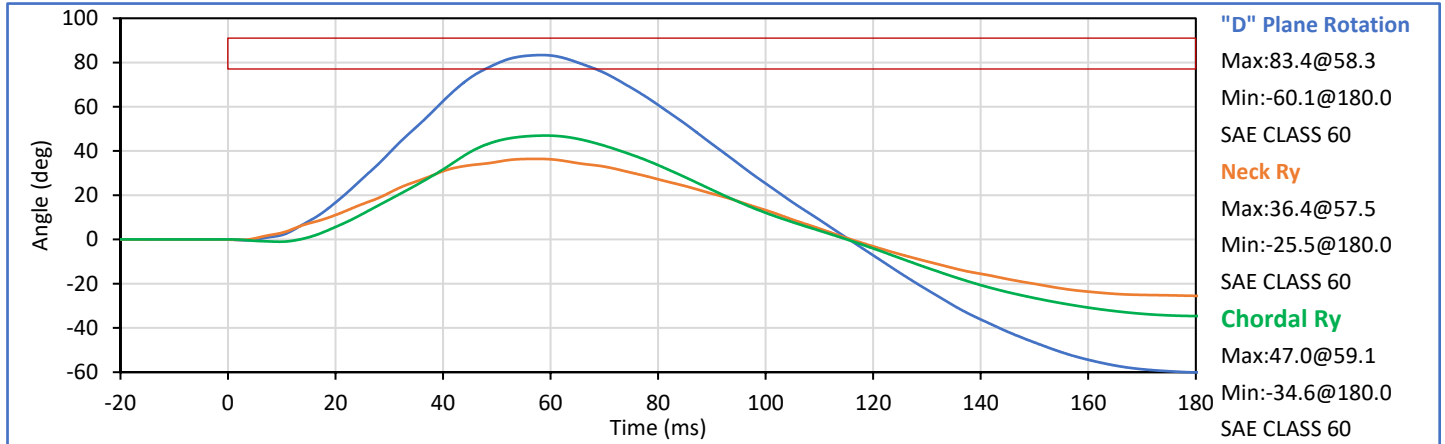
J. Perez

J. Perez

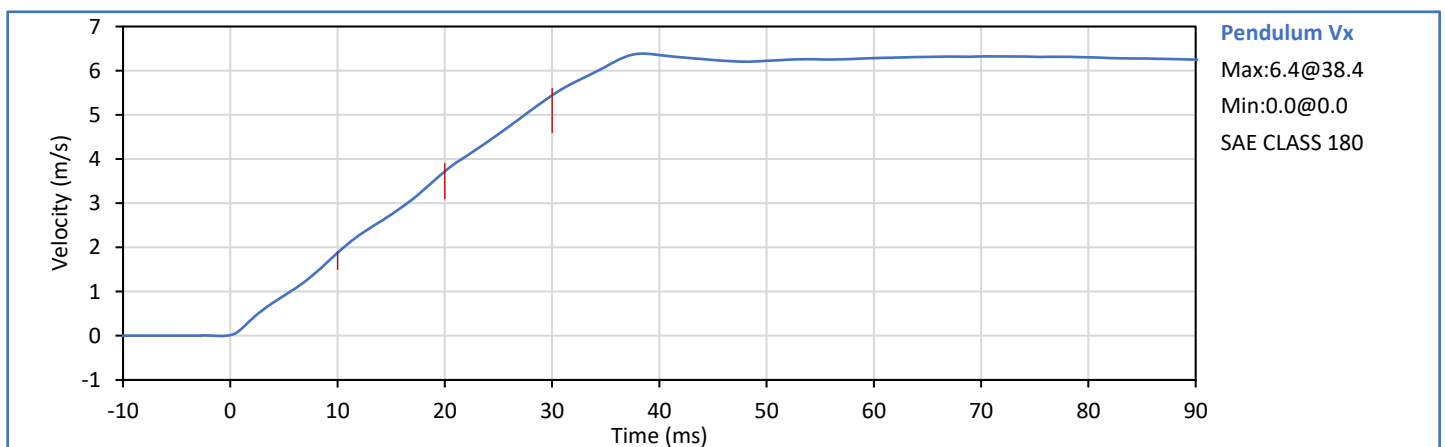
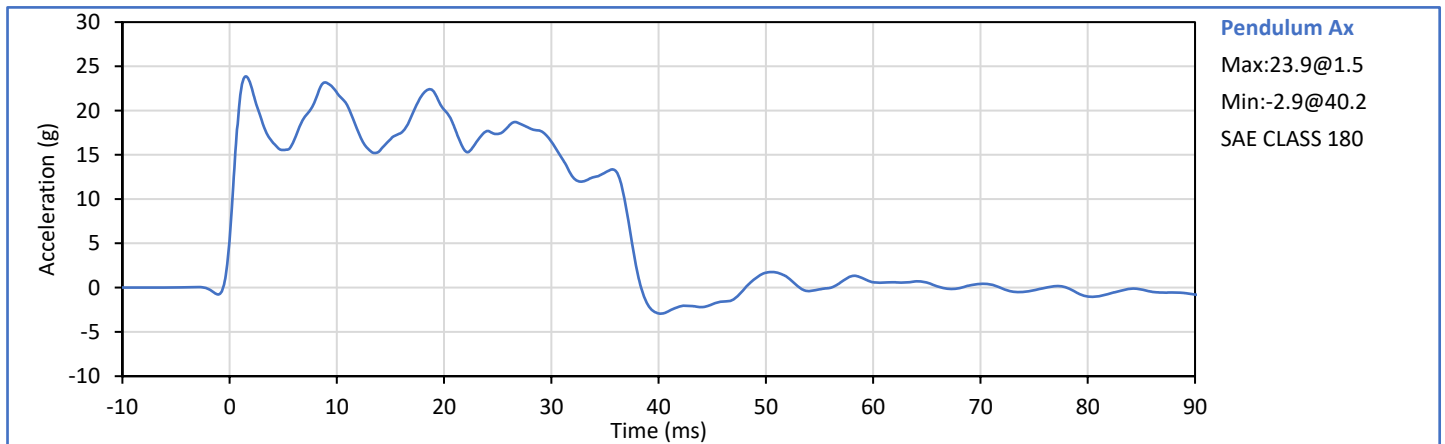
Approved By:

J. Hernandez

J. Hernandez



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	38	Pass
Pendulum Velocity	m/s	5.95	6.19	6.13	Pass
Pendulum Velocity at 10 ms	m/s	1.50	1.90	1.88	Pass
Pendulum Velocity at 20 ms	m/s	3.10	3.90	3.72	Pass
Pendulum Velocity at 30 ms	m/s	4.60	5.60	5.44	Pass
Peak "D" Plane Rotation	deg	99.0	114.0	110.9	Pass
Peak Moment in Rotation	Nm	-65.0	-53.0	-55.2	Pass
Negative Moment Decay to -10 Nm	ms	94.0	114.0	103.5	Pass
Overall Test Results					Pass



Technician:

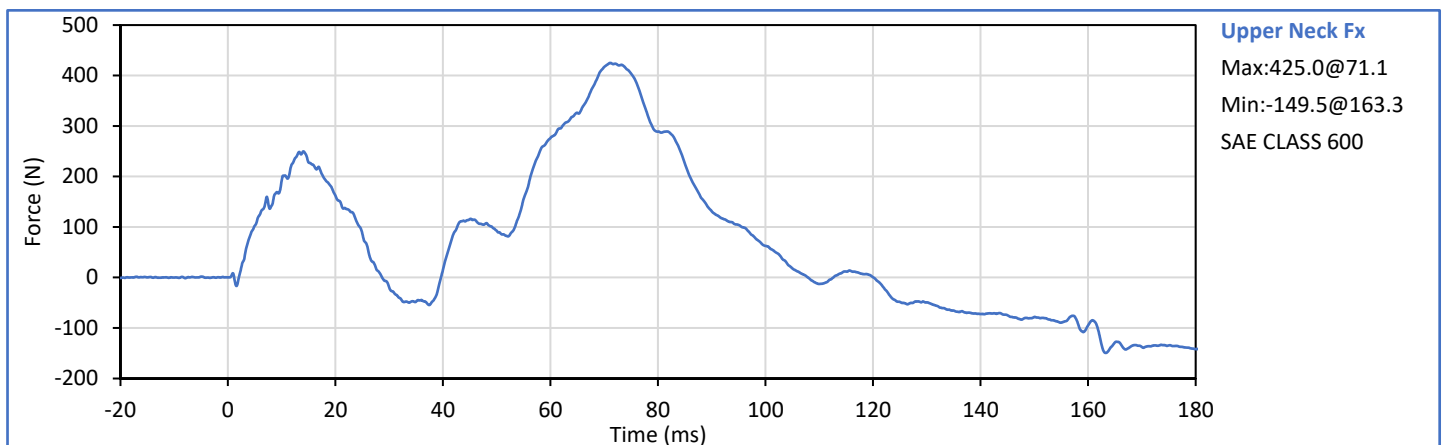
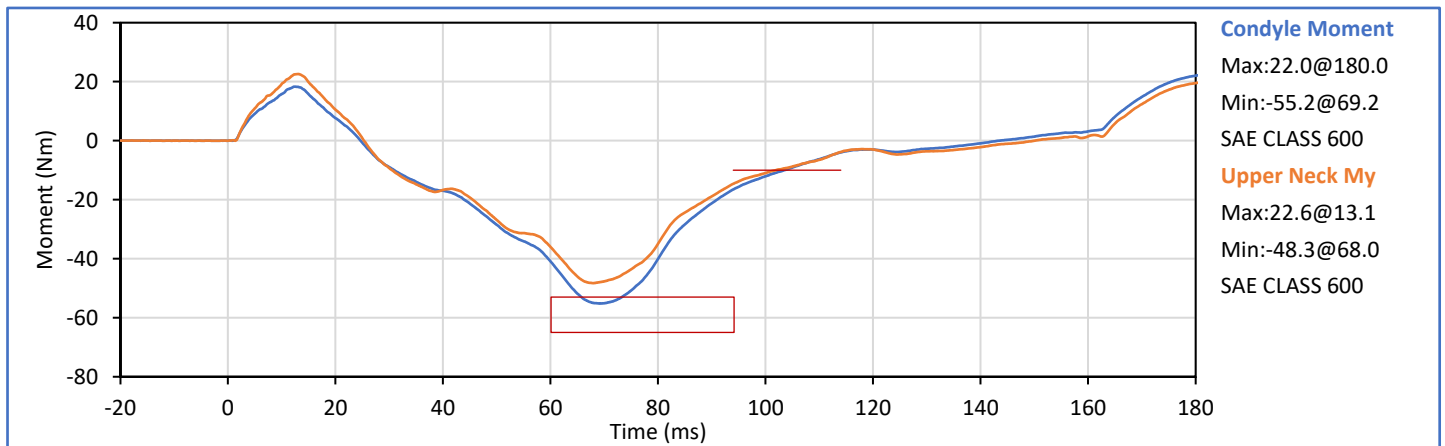
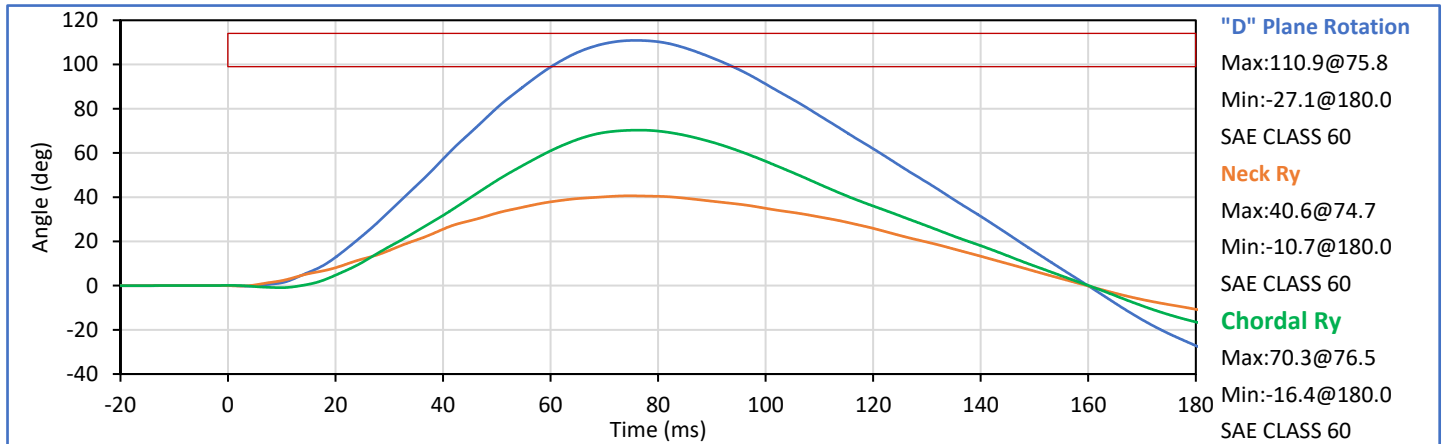
J. Perez

J. Perez

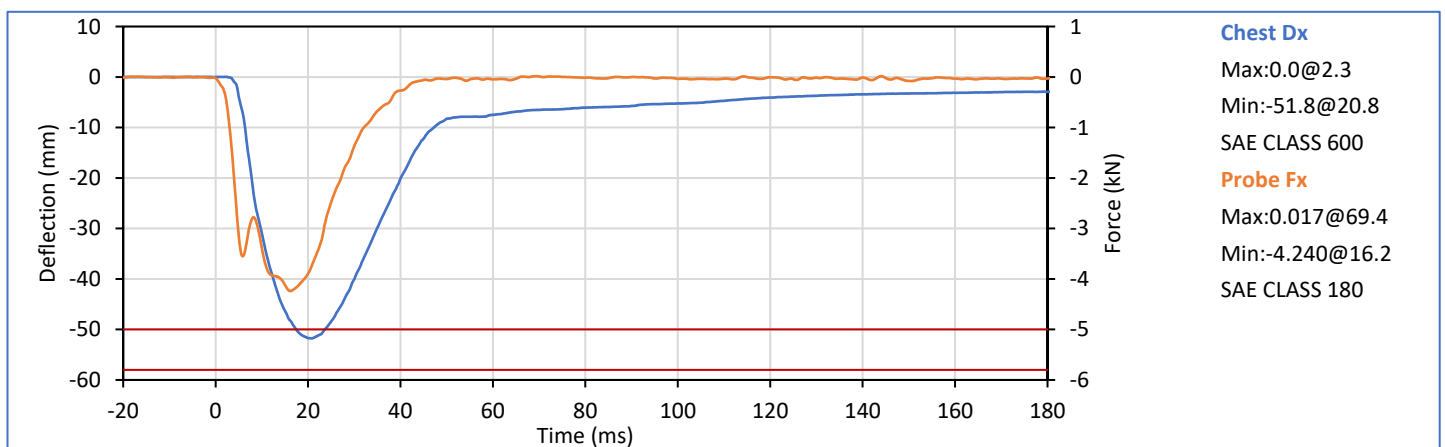
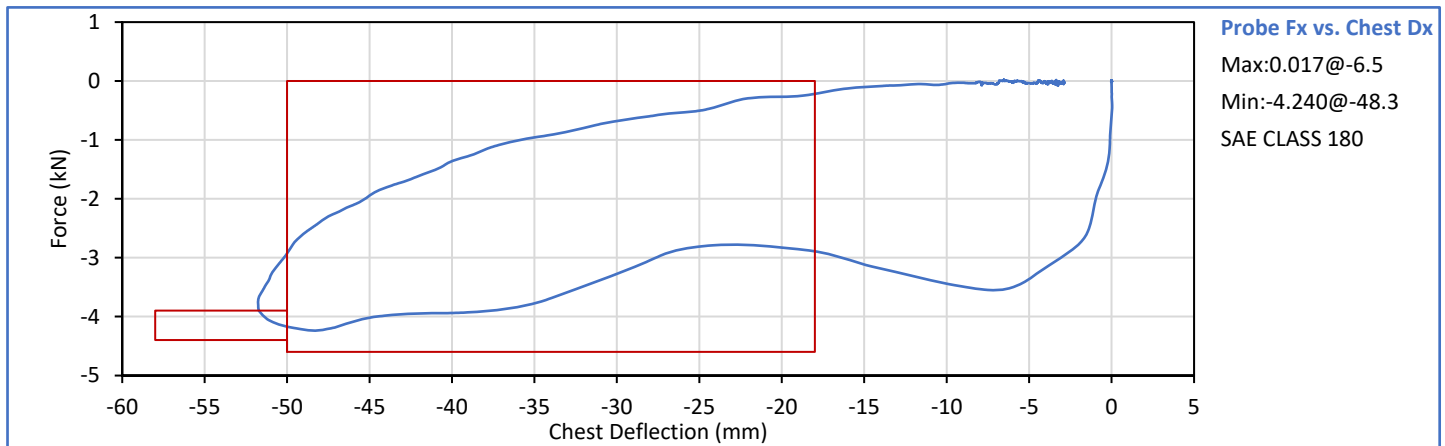
Approved By:

J. Hernandez

J. Hernandez



Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory RelativeHumidity	%	10	70	38	Pass
Probe Velocity	m/s	6.59	6.83	6.71	Pass
Peak Chest Deflection	mm	-58.0	-50.0	-51.8	Pass
Peak Probe Force, 50 and 58 mm	kN	-4.400	-3.900	-4.174	Pass
Peak Probe Force, 18 and 50 mm	kN	-4.600	0.000	-4.240	Pass
Internal Hysteresis	%	69.0	85.0	76.2	Pass
Overall Test Results					Pass



Technician:

J. Perez

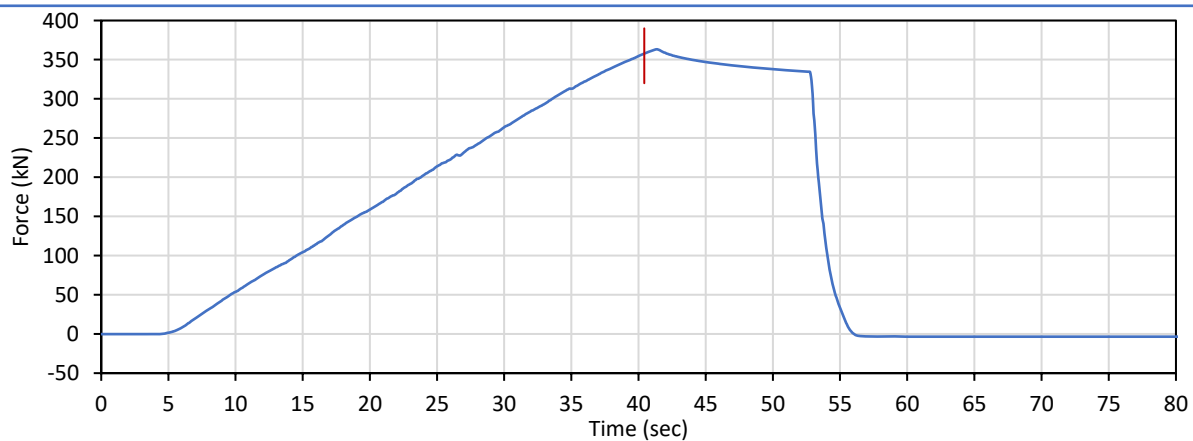
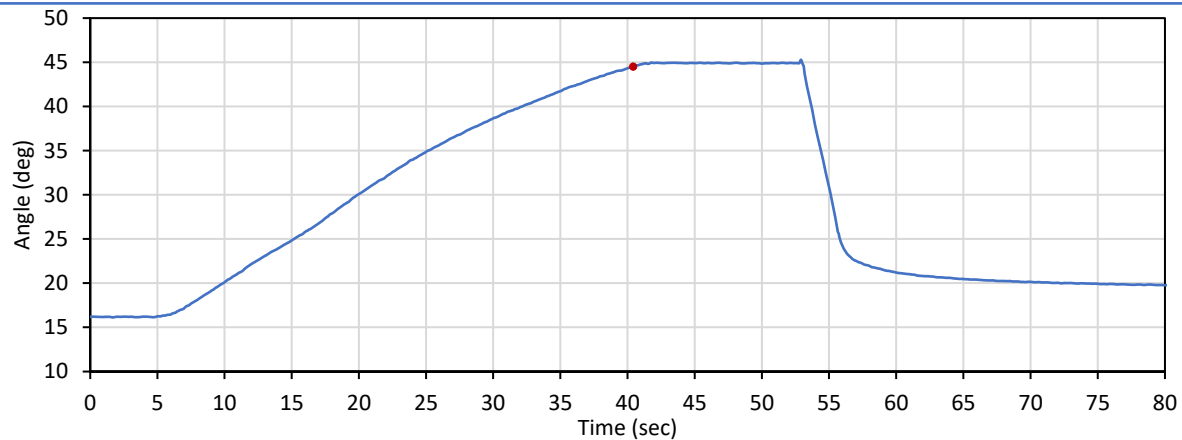
J. Perez

Approved By:

J. Hernandez

J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.6	Pass
Laboratory Humidity	%	10	70	38	Pass
Orientation Angle	deg	0.0	20.0	16.0	Pass
Test Initial Angle	deg	11.0	19.0	16.2	Pass
Peak Force at 45° (+/-0.5°)	N	320.0	390.0	357.8	Pass
Torso Flexion Rate	deg/s	0.50	1.50	0.84	Pass
Final Reference Plane Angle	deg	-8.0	8.0	2.7	Pass
Overall Test Results					Pass



Technician:

J. Perez

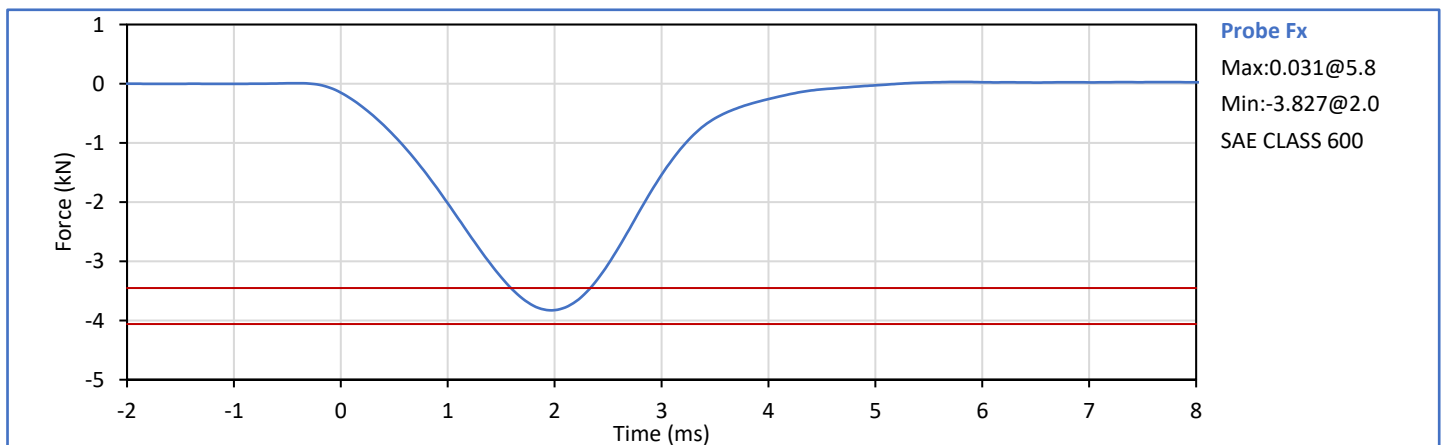
J. Perez

Approved By:

J. Hernandez

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	38	Pass
Probe Velocity	m/s	2.070	2.130	2.103	Pass
Peak Resistive Force	kN	-4.060	-3.450	-3.827	Pass
Overall Test Results					Pass



Technician:

J. Perez

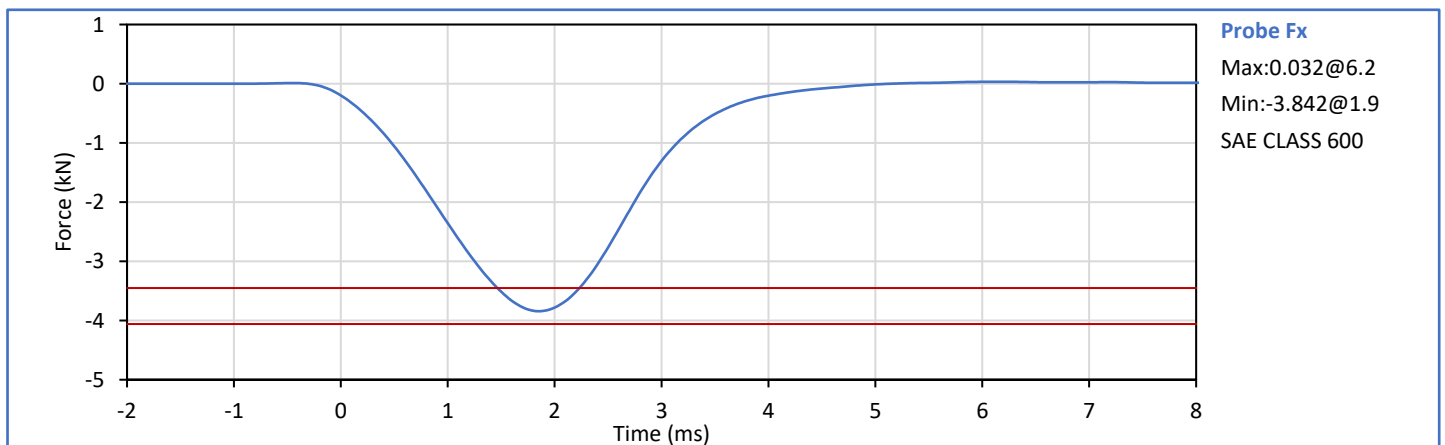
J. Perez

Approved By:

J. Hernandez

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	38	Pass
Probe Velocity	m/s	2.070	2.130	2.102	Pass
Peak Resistive Force	kN	-4.060	-3.450	-3.842	Pass
Overall Test Results					Pass



Technician:

J. Perez

J. Perez

Approved By:

J. Hernandez

J. Hernandez

APPENDIX C
Post-Test ATD Qualification and Performance Verification
Hybrid III 50th Percentile Male ATD
S/N: 360

ATD Serial No.: 360

Test Date: 2025-04-18

Dummy Item	Inspect for	Comments	Damage	OK
Entire ATD	Perform general cleaning			✓
Outer Skin	Gashes, rips, cracks			✓
Head	Ballast secure			✓
	General appearance			✓
Neck bracket	Upper neck firmly attached to lower bracket			✓
Neck	Broken or cracked rubber			✓
	Looseness at the condyle joint			✓
Nodding block	Cracked or out of position			✓
Lumbar Spine	Broken or cracked rubber			✓
Ribs	Broken or bent ribs			✓
	Broken or bent rib supports			✓
	Damping material separated or cracked			✓
	Rubber bumpers in place			✓
Chest Displ. Assembly	Bent shaft			✓
	Slider arm riding in track			✓
Sensors	Check cables for cuts, tears			✓
	Check for damaged insulation			✓
Accelerometer Mounting	Head mounting secure			✓
	Chest mounting secure			✓
Knees	Skin condition			✓
	Insert (do not remove)			✓
	Casting			✓
Limbs	Normal movement and adjustment			✓
Knee Sliders	Wires intact			✓
	Rubber returned to "resting" position			✓
Pelvis	Broken			✓
Other	Describe below as needed			✓

Describe any repairs or replacement of parts or other findings:

No Problems Found

Technician: J. Perez

Approved By: J. Hernandez

ATD Serial No.: 360

Test Date: 2025-04-18

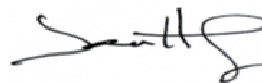
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Relative Humidity	%	10	70	35	Pass
A - Total sitting height	mm	879	889	883	Pass
B - Shoulder pivot height	mm	505	521	517	Pass
C - 'H' point height	mm	84	89	86	Pass
D - 'H' point location from backline	mm	135	140	139	Pass
E - Shoulder pivot from backline	mm	84	94	88	Pass
F - Thigh clearance	mm	140	155	151	Pass
G - Back of elbow to wrist pivot	mm	290	305	298	Pass
H - Head back to backline	mm	41	46	44	Pass
I - Shoulder to elbow length	mm	330	345	336	Pass
J - Elbow rest height	mm	190	211	203	Pass
K - Buttock to knee length	mm	579	604	596	Pass
L - Popliteal length	mm	429	455	441	Pass
M - Knee pivot height	mm	485	500	491	Pass
N - Buttock popliteal length	mm	452	477	459	Pass
O - Chest depth without jacket	mm	213	229	222	Pass
P - Foot length	mm	251	267	260	Pass
V - Shoulder breadth	mm	422	437	432	Pass
W - Foot breadth	mm	91	107	102	Pass
Y - Chest circum. (w/chest jacket)	mm	970	1001	989	Pass
Z - Waist circum.	mm	836	866	856	Pass
AA - Location for chest circum.	mm	429	434	432	Pass
BB - Location for waist circum.	mm	226	231	230	Pass
			Overall Test Results		Pass

Technician.



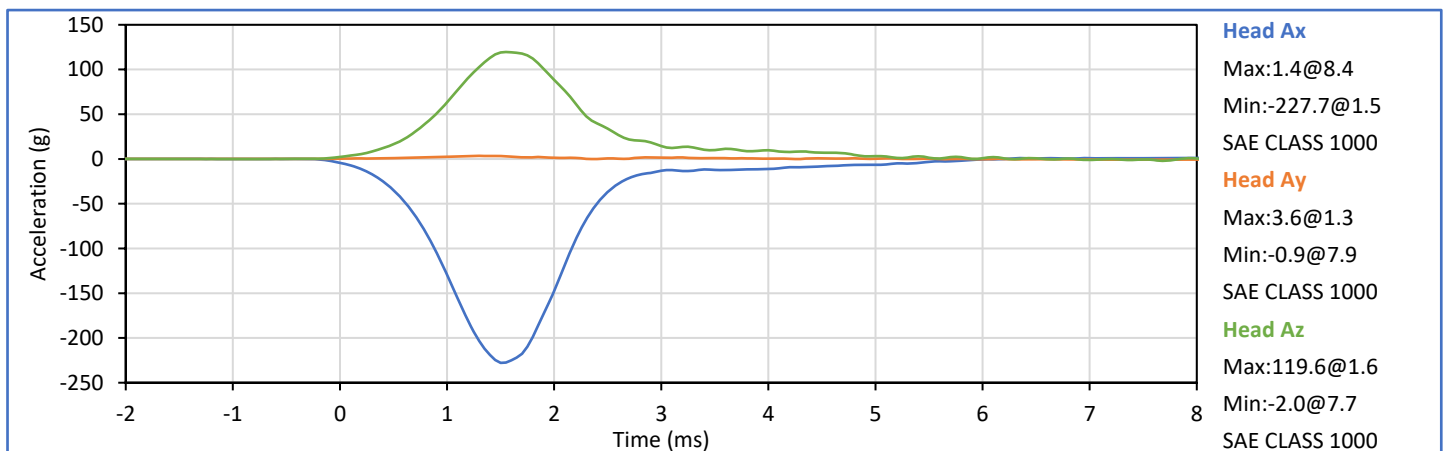
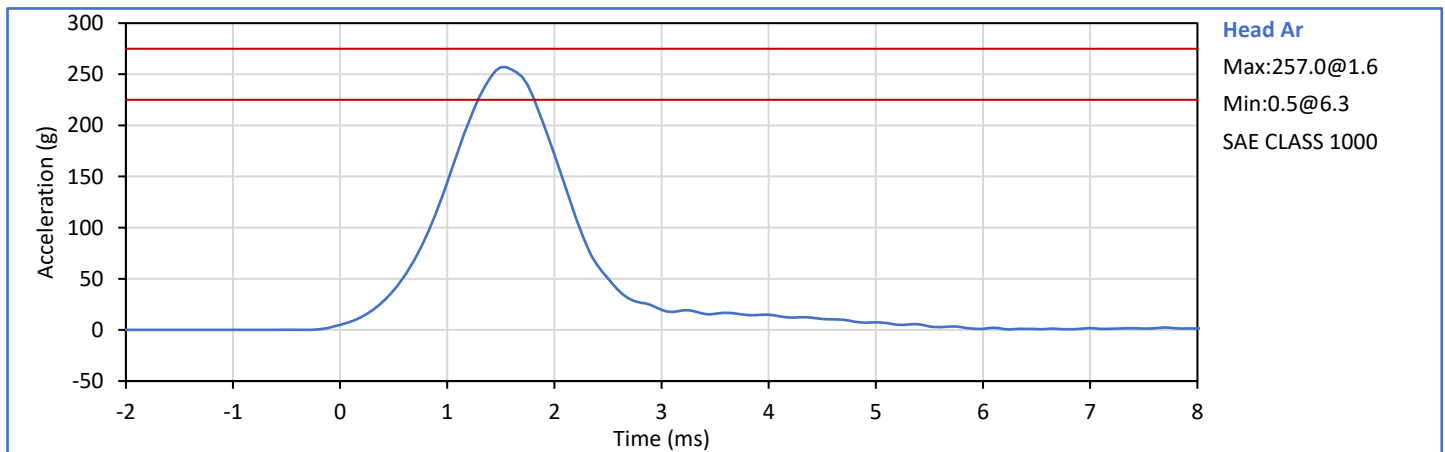
J. Perez

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	35	Pass
Peak Resultant Acceleration	g	225.0	275.0	257.0	Pass
Peak Lateral Acceleration	g	-15.0	15.0	3.6	Pass
Oscillations After Main Pulse	%	0.0	10.0	0.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results		Pass



Technician:

J. Perez

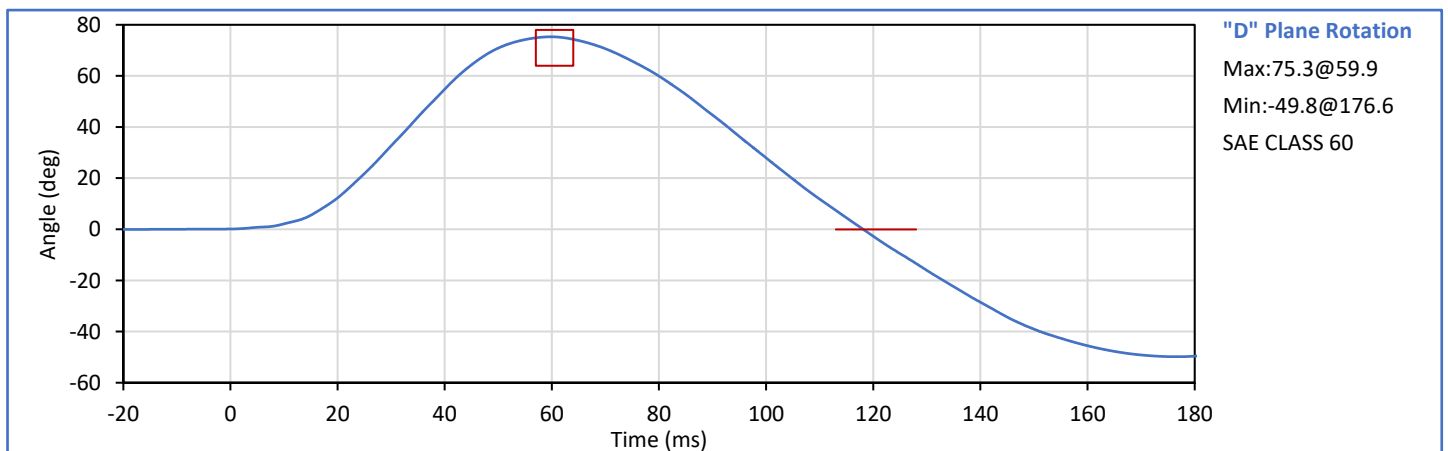
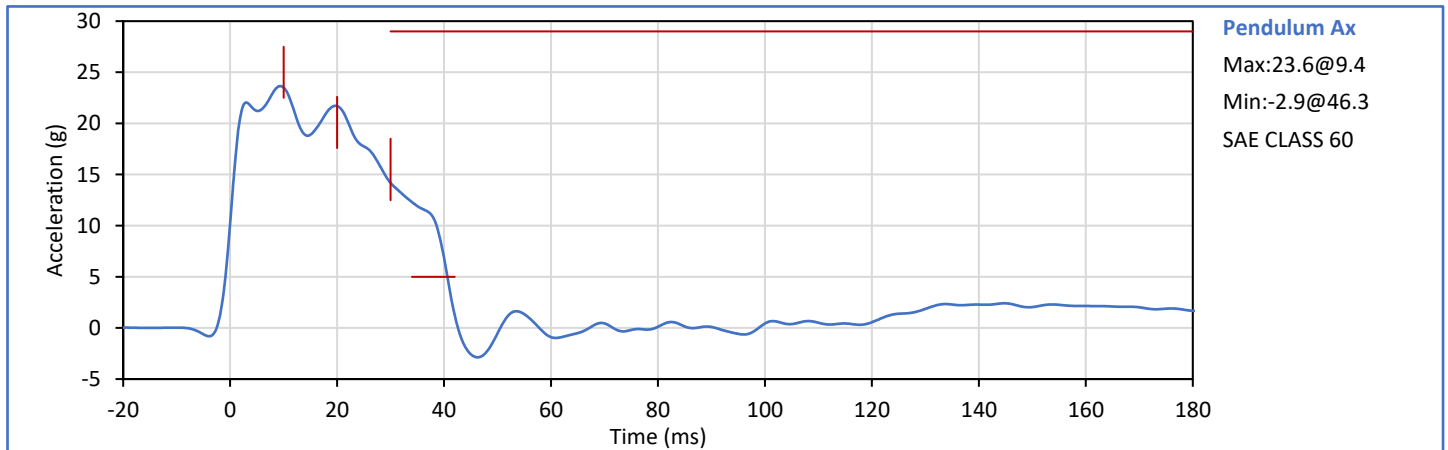
J. Perez

Approved By:

J. Hernandez

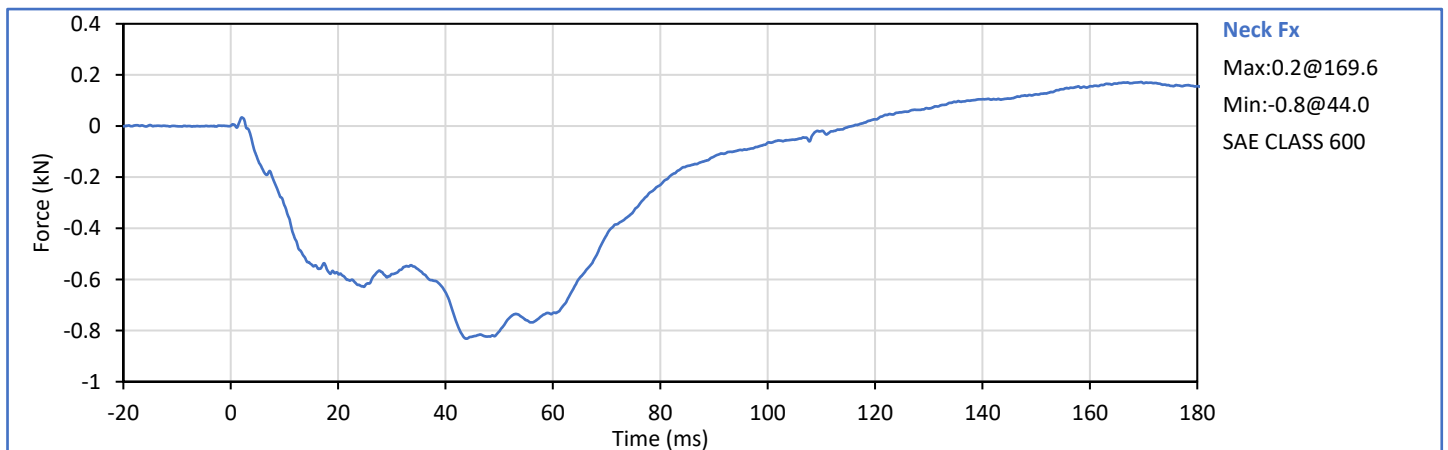
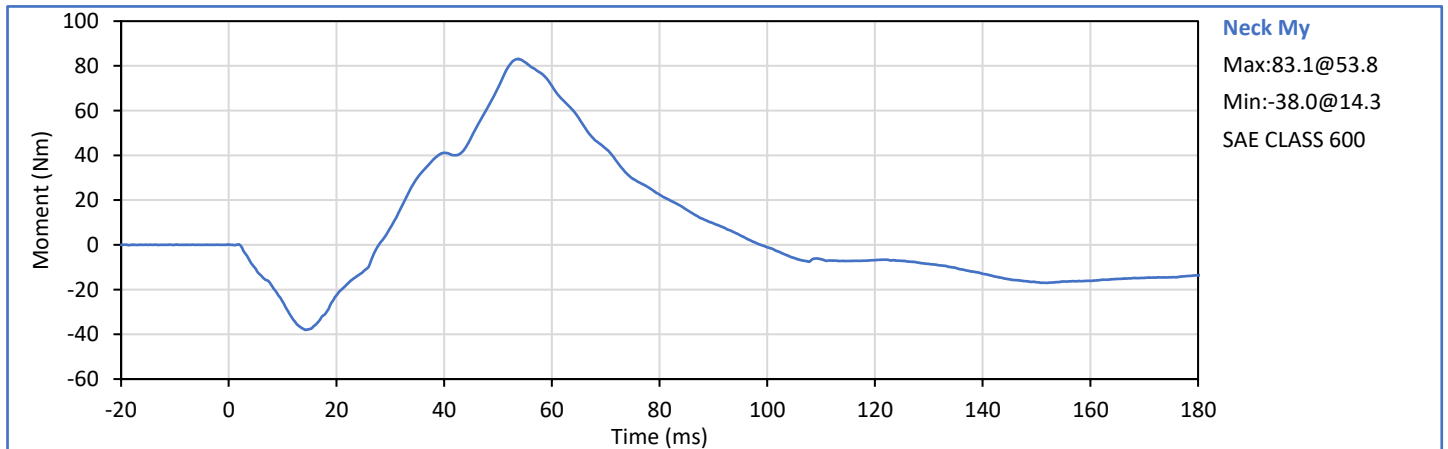
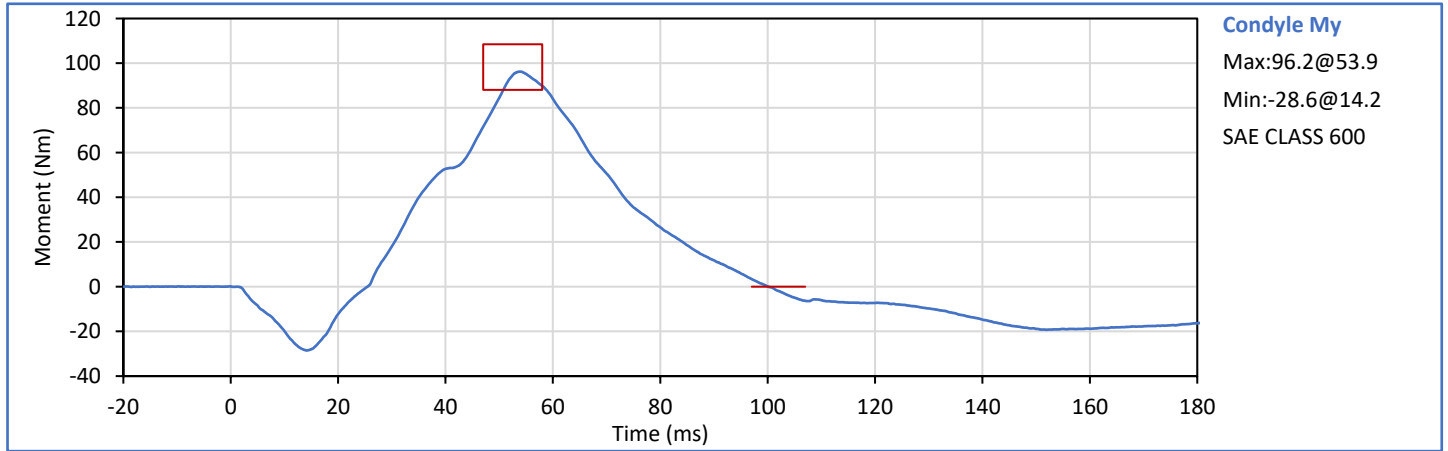
J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.8	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Pendulum Velocity	m/s	6.89	7.13	7.04	Pass
Pendulum Deceleration at 10 ms	g	22.5	27.5	23.5	Pass
Pendulum Deceleration at 20 ms	g	17.6	22.6	21.7	Pass
Pendulum Deceleration at 30 ms	g	12.5	18.5	14.2	Pass
Peak Pendulum Decel After 30 ms	g	0.0	29.0	14.2	Pass
Deceleration Decay to Cross 5g	ms	34.0	42.0	40.6	Pass
"D" Plane Rotation peak	deg	64.0	78.0	75.3	Pass
	ms	57.0	64.0	59.9	Pass
"D" Plane Rotation Decay to Zero	ms	113.0	128.0	118.2	Pass
Moment About Occipital Condyle	Nm	88.1	108.5	96.2	Pass
	ms	47.0	58.0	53.9	Pass
Moment Decay, Peak to Zero	ms	97.0	107.0	100.1	Pass
Overall Test Results				Pass	

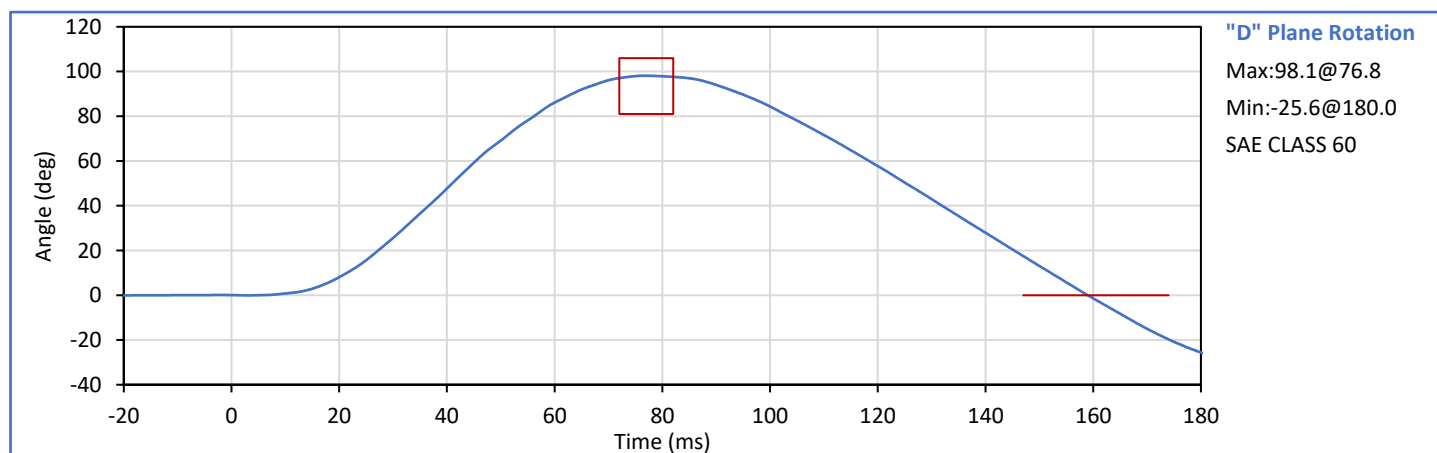
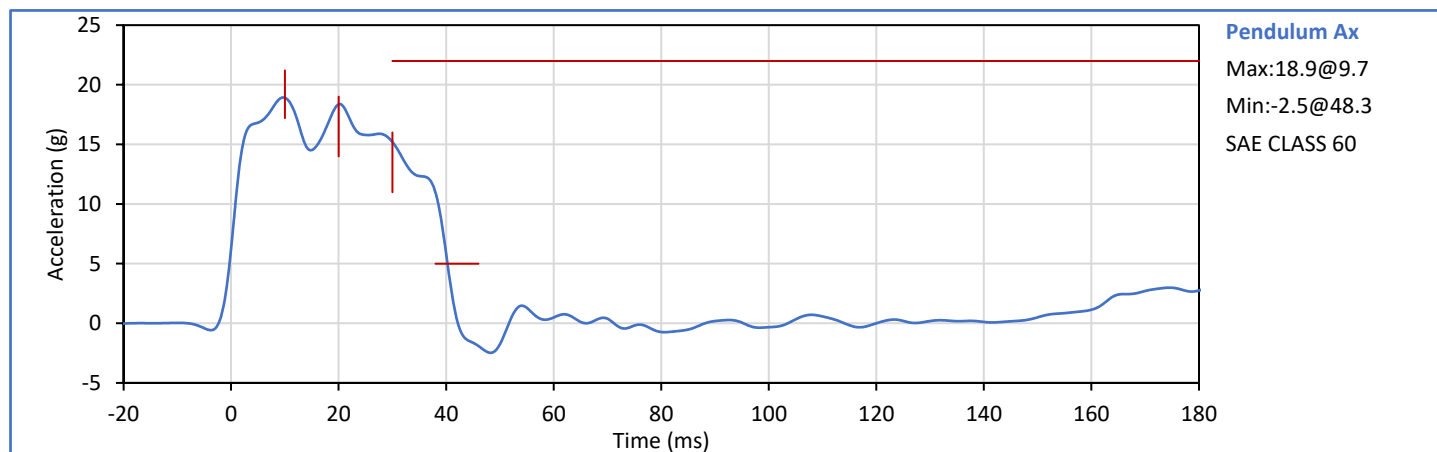


Technician: J. Perez

Approved By: J. Hernandez

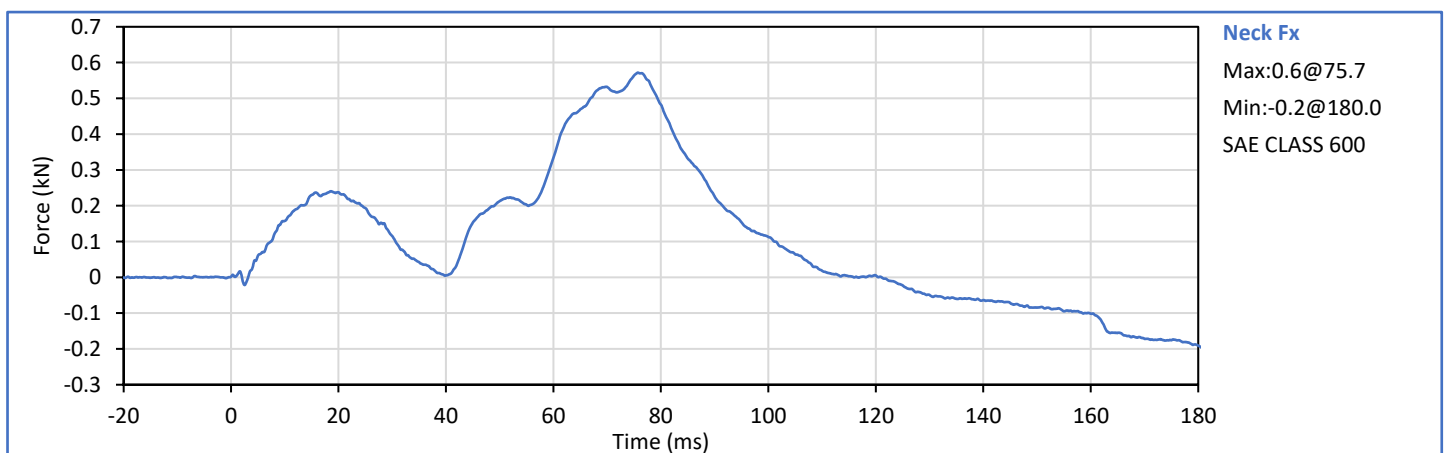
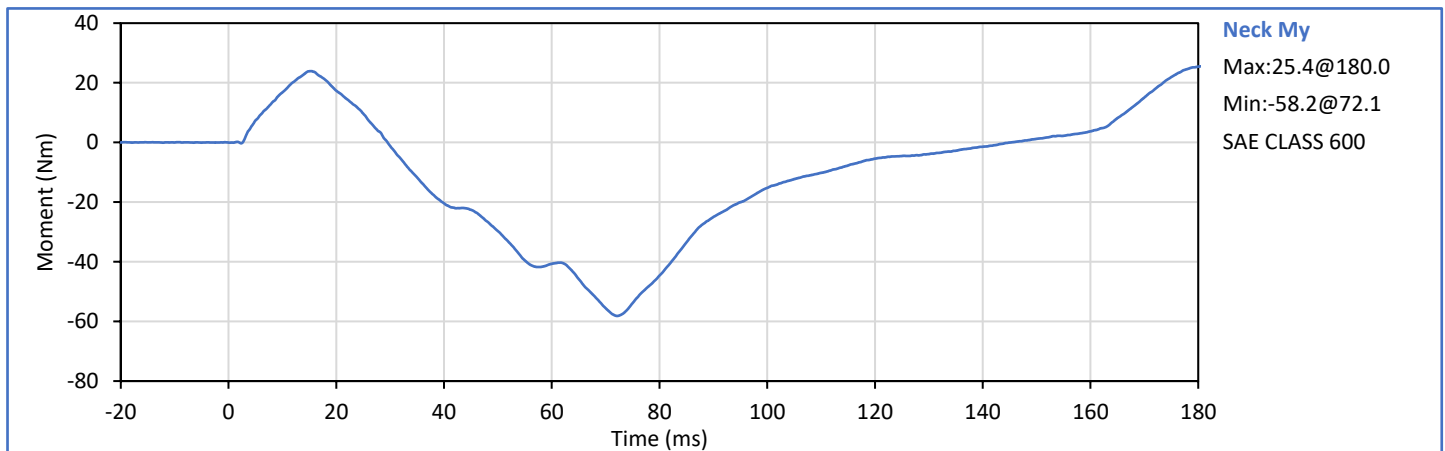
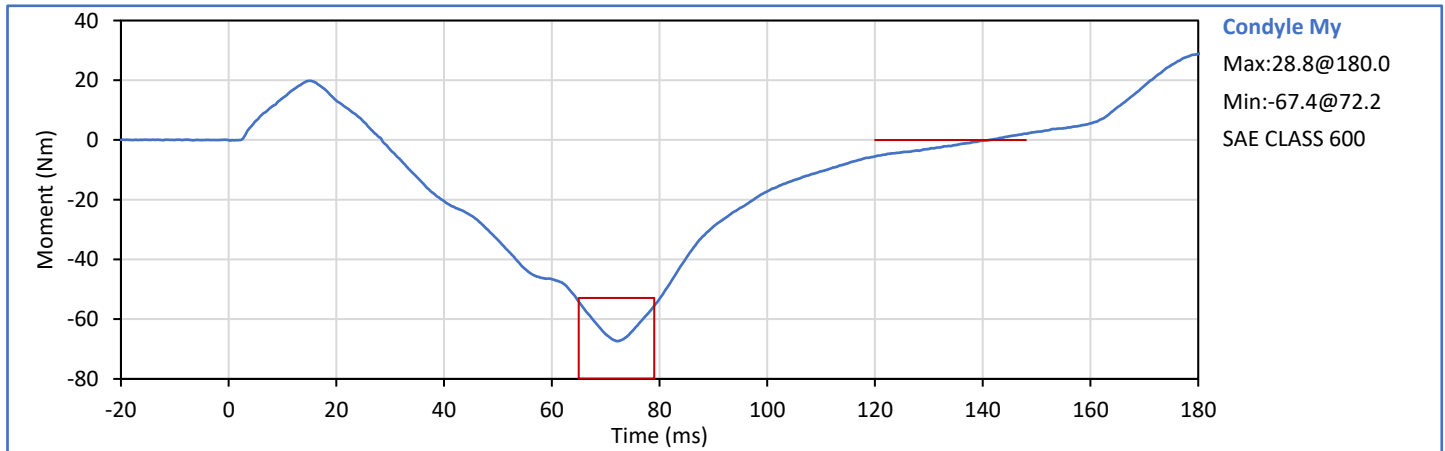


Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.7	Pass
Laboratory Relative Humidity	%	10	70	38	Pass
Pendulum Velocity	m/s	5.94	6.19	6.07	Pass
Pendulum Deceleration at 10 ms	g	17.2	21.2	18.9	Pass
Pendulum Deceleration at 20 ms	g	14.0	19.0	18.4	Pass
Pendulum Deceleration at 30 ms	g	11.0	16.0	15.2	Pass
Peak Pendulum Decel After 30 ms	g	0.0	22.0	15.2	Pass
Deceleration Decay to Cross 5g	ms	38.0	46.0	40.3	Pass
"D" Plane Rotation peak	deg	81.0	106.0	98.1	Pass
	ms	72.0	82.0	76.8	Pass
"D" Plane Rotation Decay to Zero	ms	147.0	174.0	159.1	Pass
Moment About Occipital Condyle	Nm	-79.9	-52.9	-67.4	Pass
	ms	65.0	79.0	72.2	Pass
Moment Decay, Peak to Zero	ms	120.0	148.0	141.3	Pass
Overall Test Results				Pass	

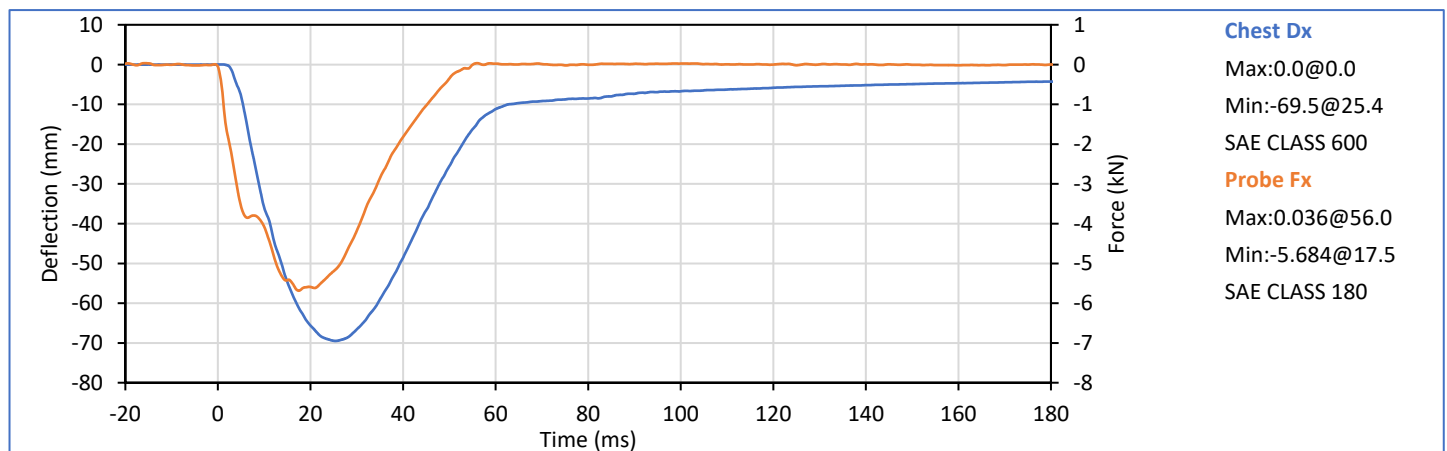
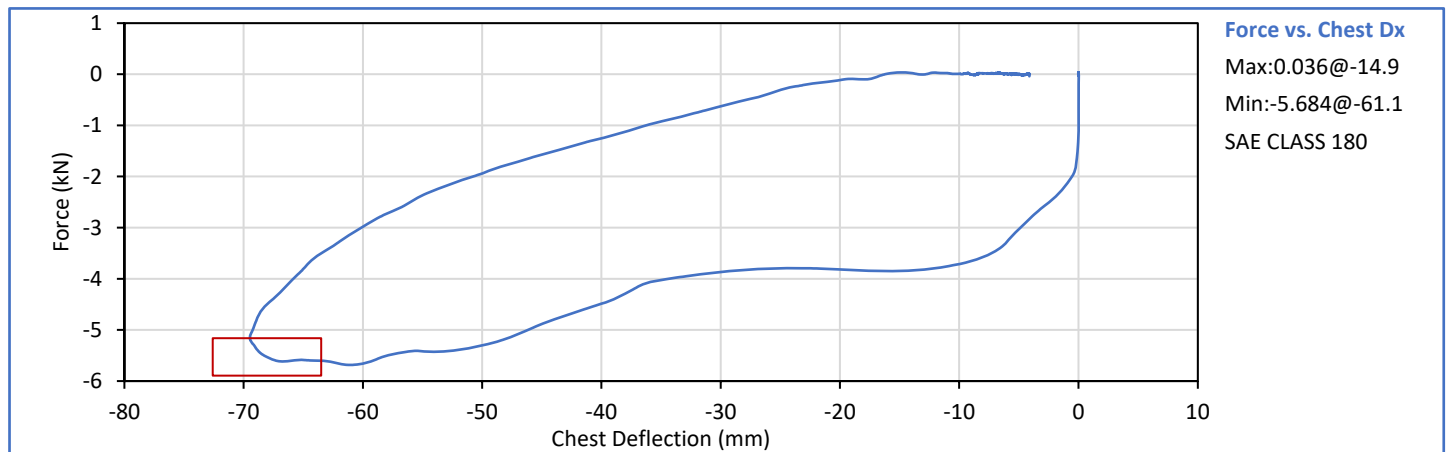


Technician: J. Perez

Approved By: J. Hernandez



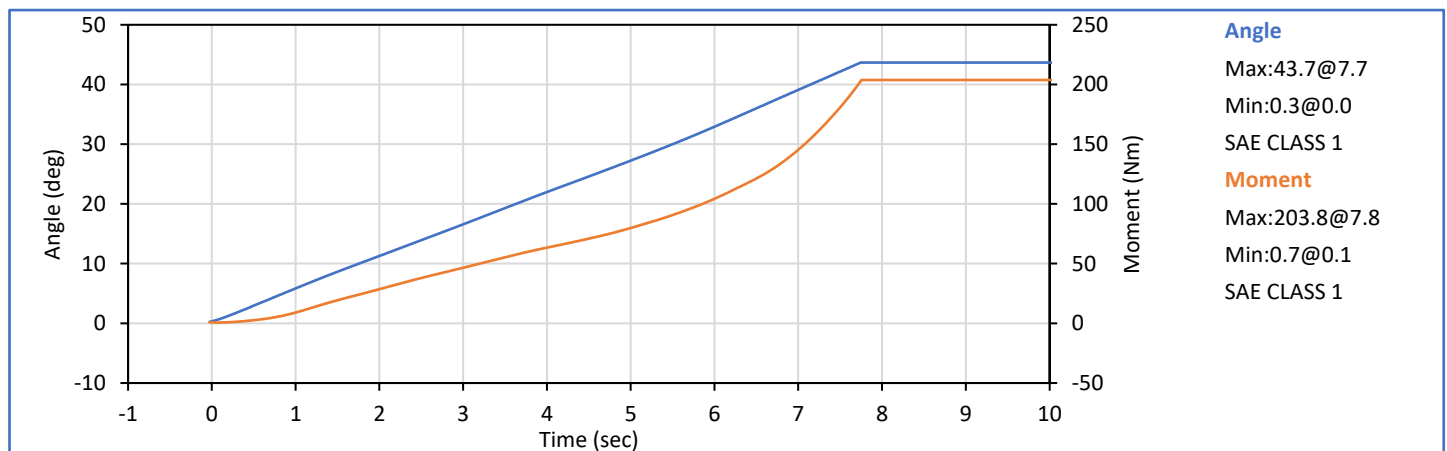
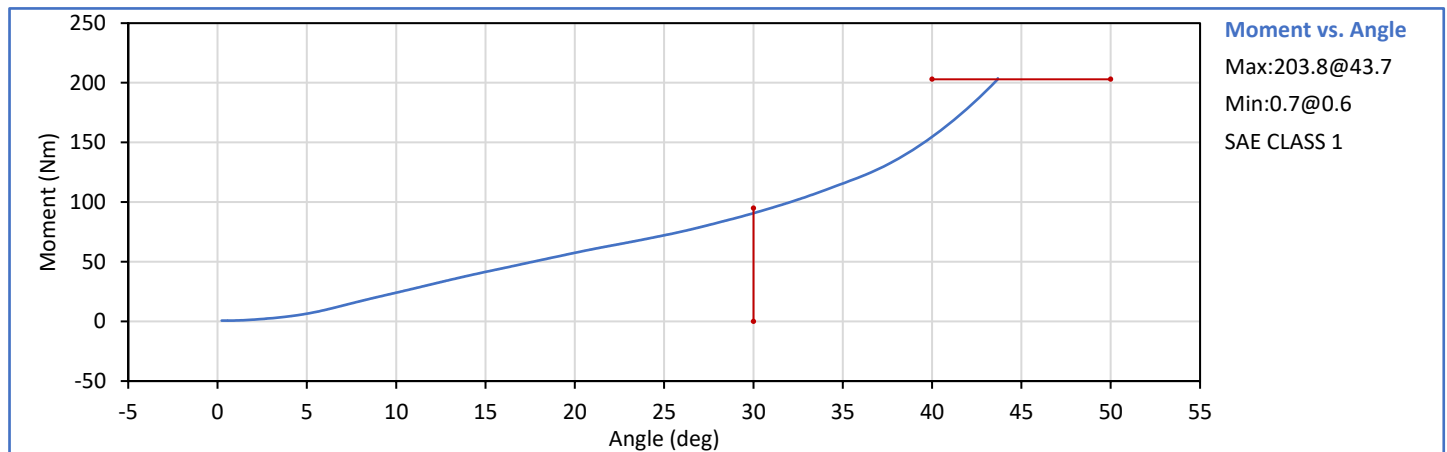
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.3	Pass
Laboratory Relative Humidity	%	10	70	35	Pass
Probe Velocity	m/s	6.58	6.82	6.72	Pass
Peak Chest Deflection	mm	-72.6	-63.5	-69.5	Pass
Peak Probe Force	kN	-5.893	-5.159	-5.684	Pass
Internal Hysteresis	%	69.0	85.0	70.6	Pass
Overall Test Results				Pass	Pass



Technician: 
 J. Perez

Approved By: 
 J. Hernandez

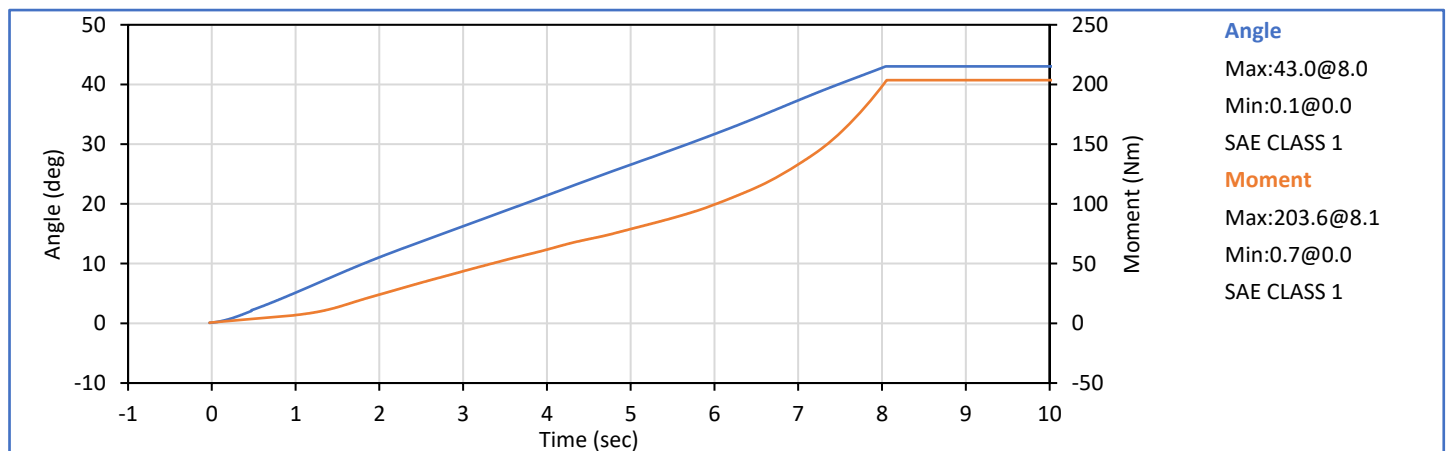
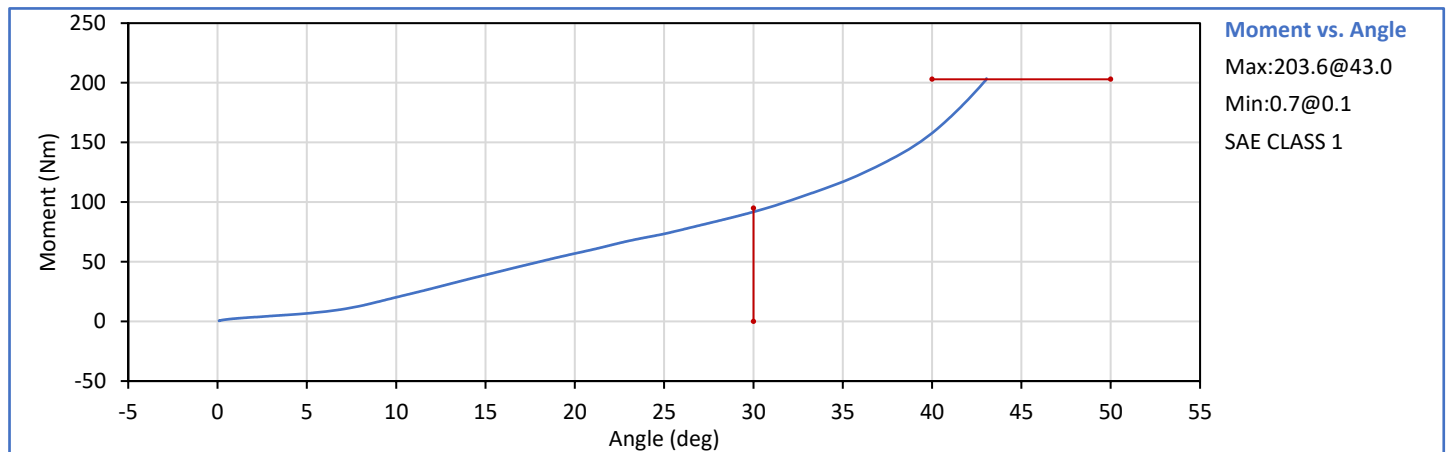
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.5	Pass
Laboratory Relative Humidity	%	10	70	39	Pass
Left Hip Rotation Rate	deg/s	5.0	10.0	5.6	Pass
Left Femur Torque at 30°	Nm	0.0	95.0	90.6	Pass
Left Hip Rotation at 203 Nm	deg	40.0	50.0	43.7	Pass
Overall Test Results					Pass



Technician: J. Perez

Approved By: J. Hernandez

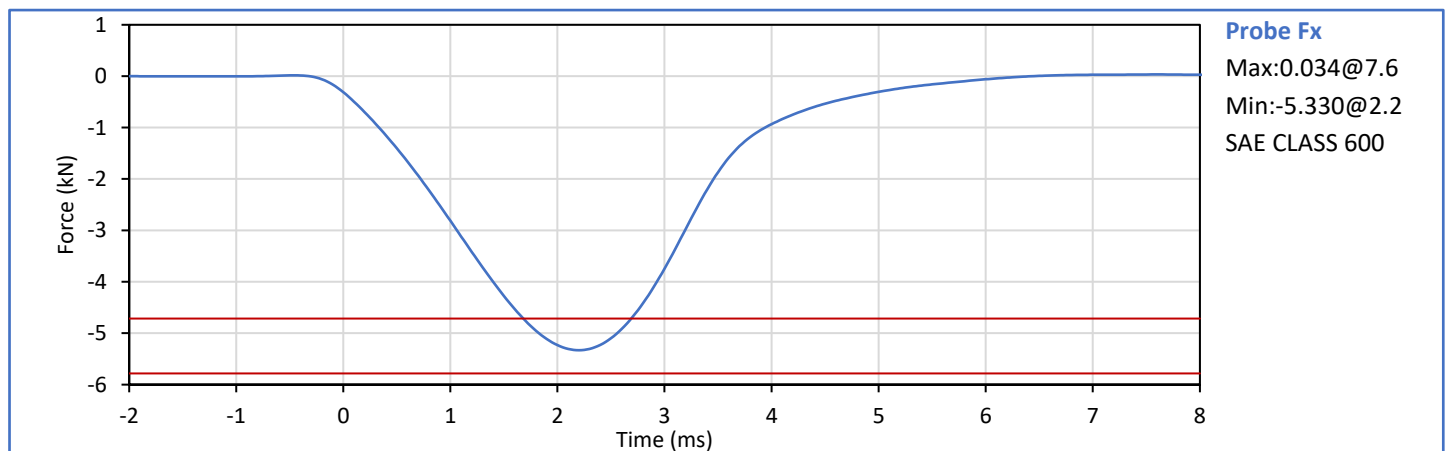
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.5	Pass
Laboratory Relative Humidity	%	10	70	40	Pass
Right Hip Rotation Rate	deg/s	5.0	10.0	5.4	Pass
Right Femur Torque at 30°	Nm	0.0	95.0	91.7	Pass
Right Hip Rotation at 203 Nm	deg	40.0	50.0	43.0	Pass
Overall Test Results					Pass



Technician: J. Perez

Approved By: J. Hernandez

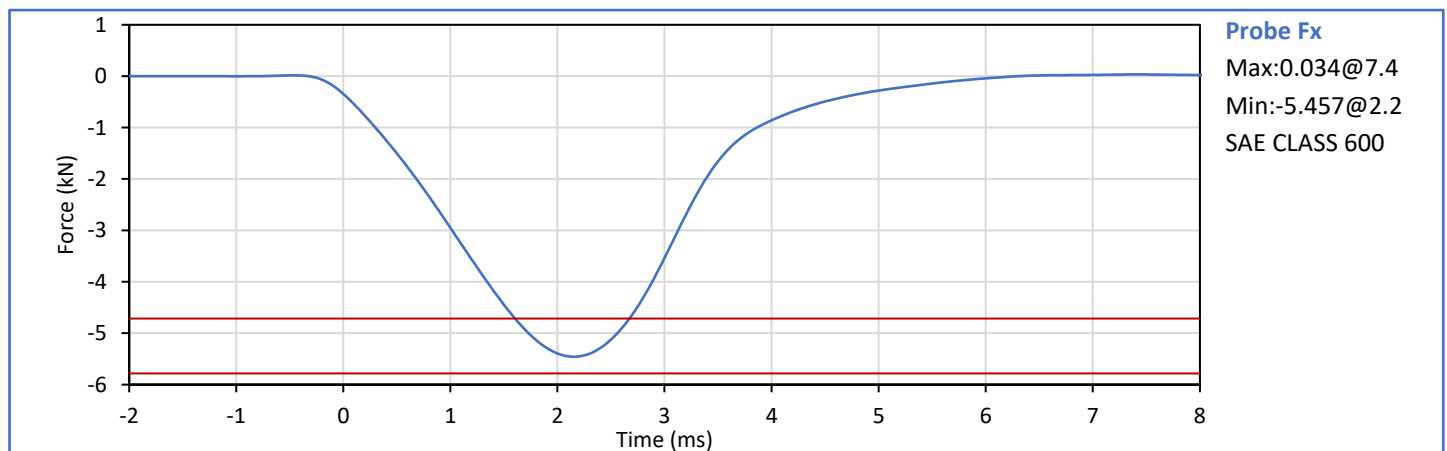
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.3	Pass
Laboratory Relative Humidity	%	10	70	39	Pass
Probe Velocity	m/s	2.070	2.130	2.102	Pass
Peak Resistive Force	kN	-5.782	-4.715	-5.330	Pass
Overall Test Results					Pass



Technician: J. Perez

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	39	Pass
Probe Velocity	m/s	2.070	2.130	2.104	Pass
Peak Resistive Force	kN	-5.782	-4.715	-5.457	Pass
Overall Test Results					Pass



Technician: J. Perez

Approved By: J. Hernandez

APPENDIX C
Post-Test ATD Qualification and Performance Verification
Hybrid III 5th Percentile Female ATD
S/N: DH1644

ATD Serial No.: DH1644

Test Date: 2025-04-18

Dummy Item	Inspect for	Comments	Damage	Okay
Entire ATD	Perform general cleaning			✓
Outer Skin	Gashes, rips, cracks			✓
Head	Ballast secure			✓
	General appearance			✓
Neck bracket	Upper neck firmly attached to lower bracket			✓
Neck	Broken or cracked rubber			✓
	Looseness at the condyle joint			✓
Nodding block	Cracked or out of position			✓
Lumbar Spine	Broken or cracked rubber			✓
Ribs	Broken or bent ribs			✓
	Broken or bent rib supports			✓
	Damping material separated or cracked			✓
	Rubber bumpers in place			✓
Chest Displ.	Bent shaft			✓
Assembly	Slider arm riding in track			✓
Sensors	Check cables for cuts, tears			✓
	Check for damaged insulation			✓
Accelerometer	Head mounting secure			✓
Mounting	Chest mounting secure			✓
Knees	Skin condition			✓
	Insert (do not remove)			✓
	Casting			✓
Limbs	Normal movement and adjustment			✓
Knee Sliders	Wires intact			✓
	Rubber returned to "resting" position			✓
Pelvis	Broken			✓
Other	Describe below as needed			✓

Describe any repairs or replacement of parts or other findings:

No Problems Found

Technician:



J. Perez

Approved By:



J. Hernandez

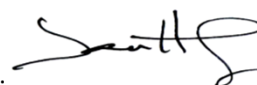
Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Relative Humidity	%	10	70	36	Pass
A - Total sitting height	mm	775	800	793	Pass
B - Shoulder pivot height	mm	432	457	445	Pass
C - 'H' point height	mm	81	86	86	Pass
D - 'H' point location from backline	mm	145	150	148	Pass
E - Shoulder pivot from backline	mm	69	84	74	Pass
F - Thigh clearance	mm	119	135	127	Pass
G - Back of elbow to wrist pivot	mm	244	259	248	Pass
H - Head back to backline	mm	41	46	45	Pass
I - Shoulder to elbow length	mm	277	297	291	Pass
J - Elbow rest height	mm	183	203	188	Pass
K - Buttock to knee length	mm	521	546	527	Pass
L - Popliteal length	mm	356	376	362	Pass
M - Knee pivot height	mm	394	419	403	Pass
N - Buttock popliteal length	mm	414	439	429	Pass
O - Chest depth without jacket	mm	175	191	186	Pass
P - Foot length	mm	219	234	224	Pass
R - Buttock to Knee Pivot Length	mm	457	483	472	Pass
S - Head Breadth	mm	137	147	144	Pass
T - Head Depth	mm	178	188	183	Pass
U - Hip Breadth	mm	300	315	311	Pass
V - Shoulder breadth	mm	351	366	355	Pass
W - Foot breadth	mm	79	94	87	Pass
X - Head circum.	mm	528	549	535	Pass
Y - Chest circum. (w/chest jacket)	mm	851	881	859	Pass
Z - Waist circum.	mm	760	790	771	Pass
AA - Location for chest circum.	mm	333	358	349	Pass
BB - Location for waist circum.	mm	160	170	164	Pass
			Overall Test Results		Pass

Technician:



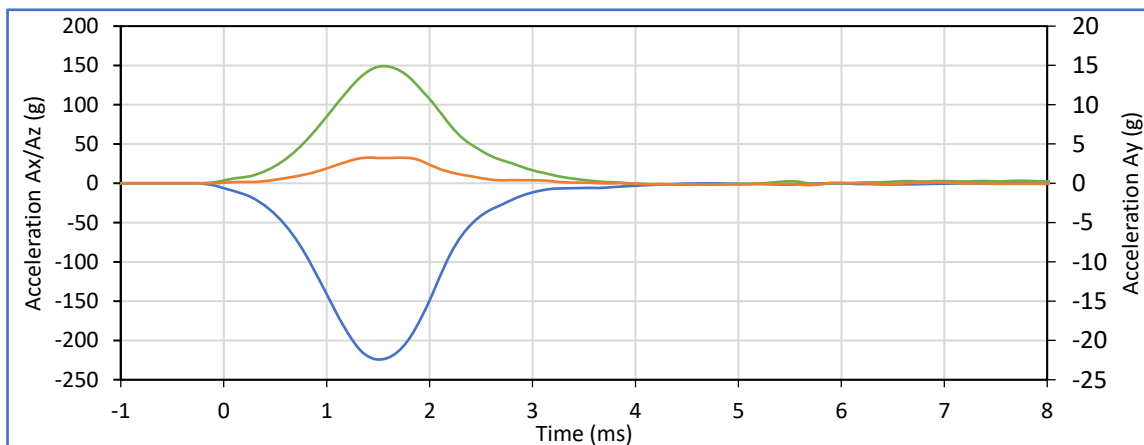
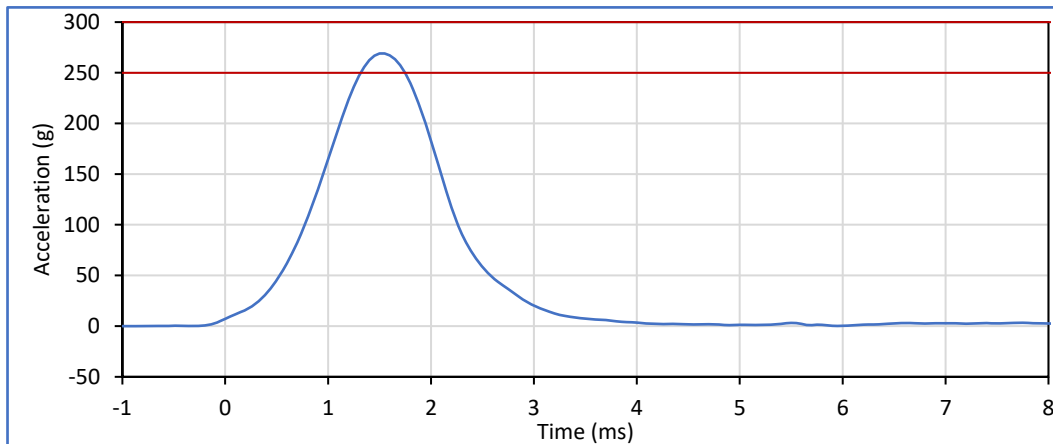
J. Perez

Approved By:



J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.2	Pass
Laboratory Humidity	%	10	70	36	Pass
Peak Resultant Acceleration	g	250.0	300.0	269.0	Pass
Peak Lateral Acceleration	g	-15.0	15.0	3.3	Pass
Oscillations After Main Pulse	%	0.0	10.0	1.2	Pass
Is Acceleration Unimodal?	Yes/No	Yes		Yes	Pass
			Overall Test Results	Pass	



Technician:

J. Perez

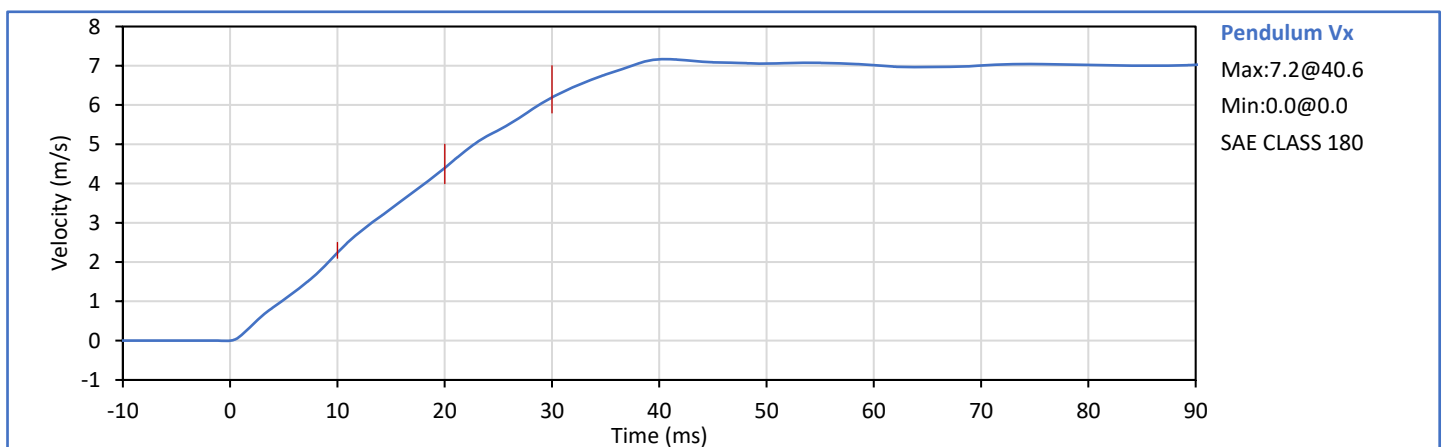
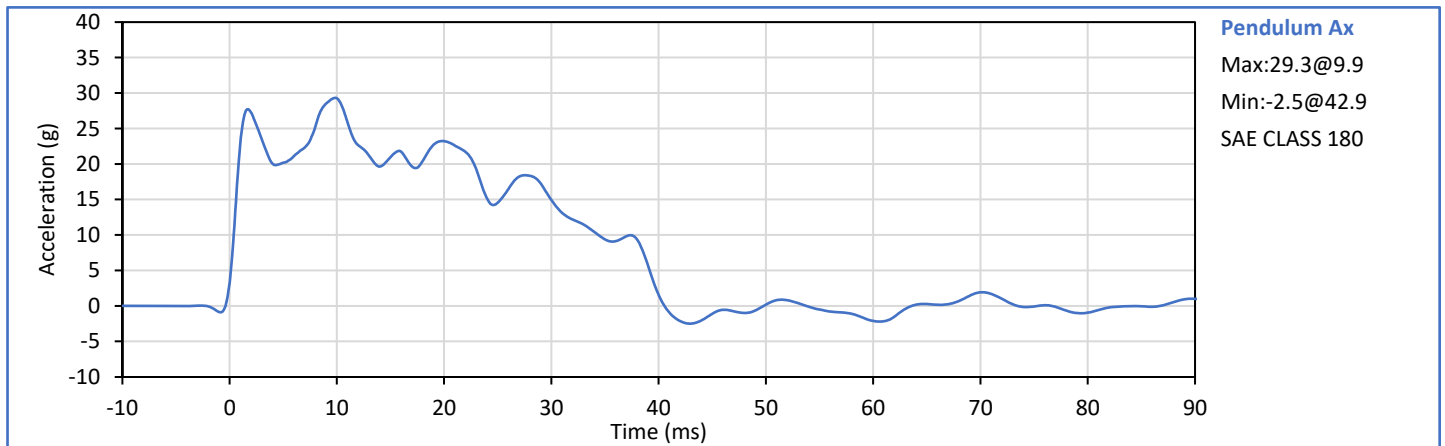
J. Perez

Approved By:

J. Hernandez

J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.2	Pass
Laboratory Humidity	%	10	70	37	Pass
Pendulum Velocity	m/s	6.89	7.13	7.04	Pass
Pendulum Velocity at 10 ms	m/s	2.10	2.50	2.24	Pass
Pendulum Velocity at 20 ms	m/s	4.00	5.00	4.40	Pass
Pendulum Velocity at 30 ms	m/s	5.80	7.00	6.19	Pass
Peak "D" Plane Rotation	deg	77.0	91.0	83.5	Pass
Peak Moment in Rotation	Nm	69.0	83.0	79.4	Pass
Positive Moment Decay to 10 Nm	ms	80.0	100.0	88.4	Pass
Overall Test Results					Pass



Technician:

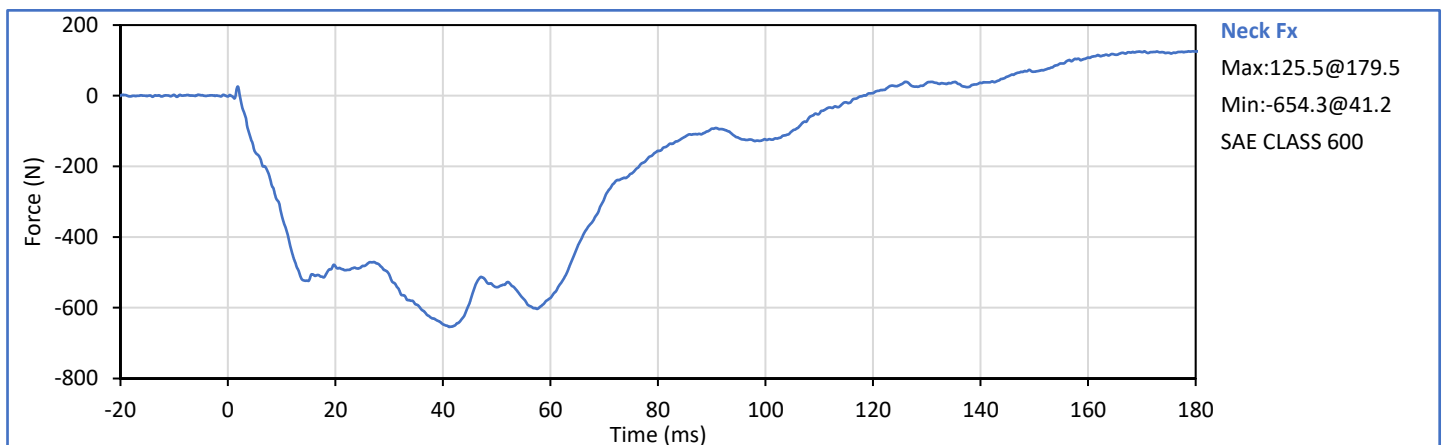
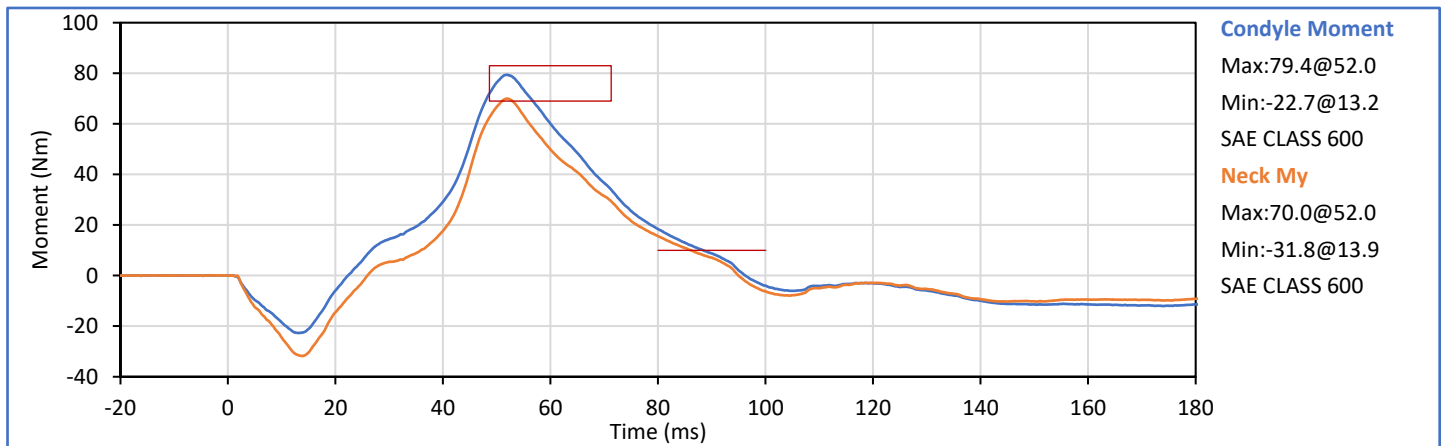
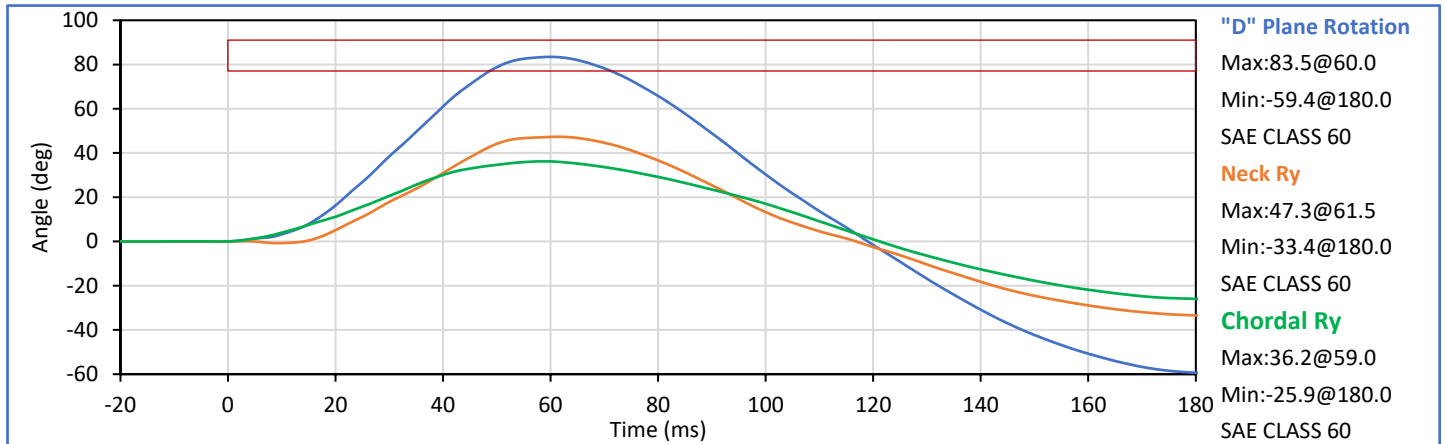
J. Perez

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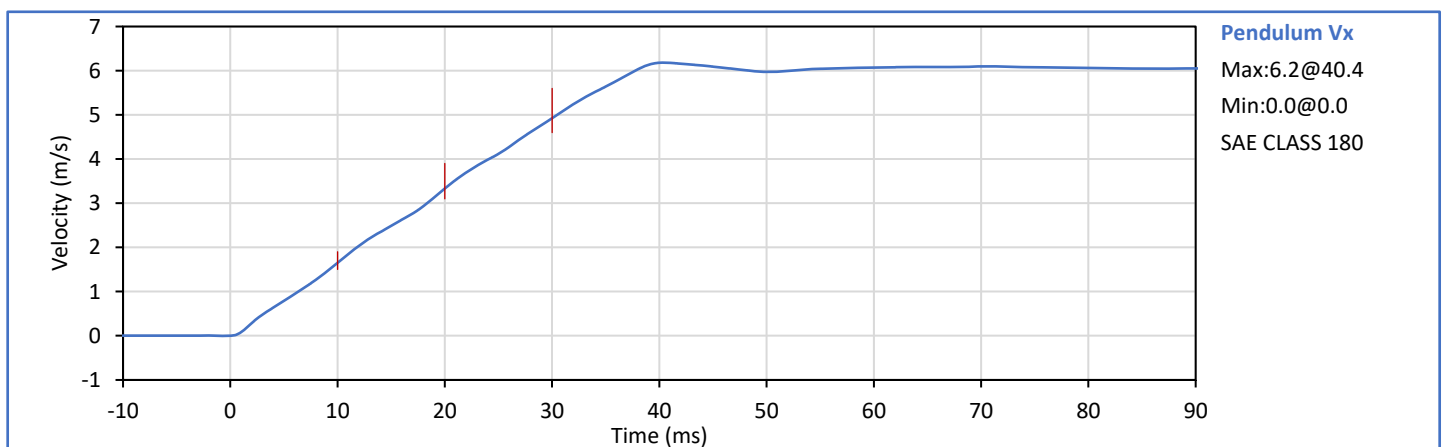
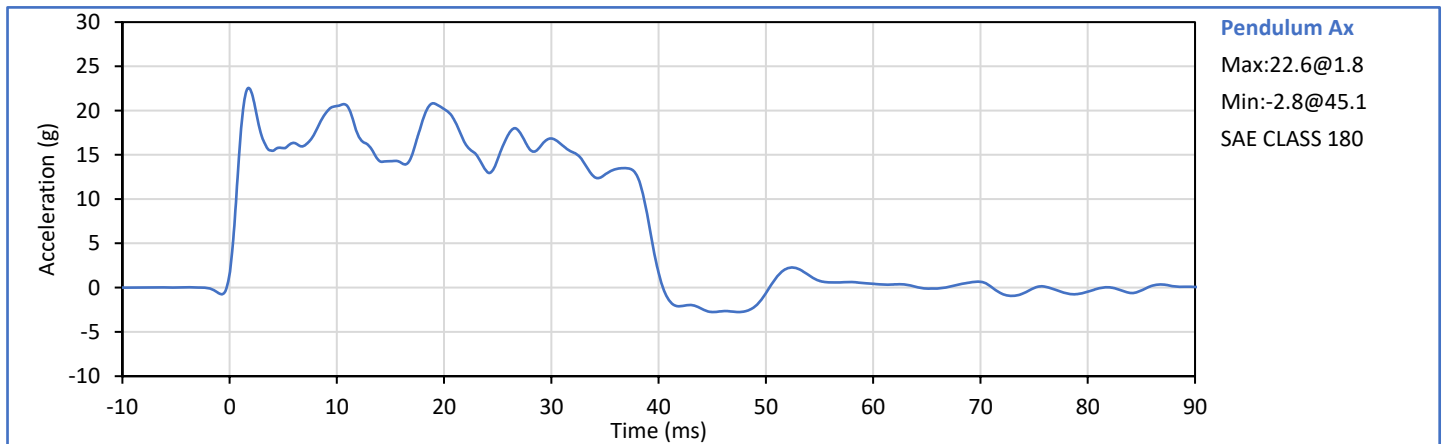
Approved By:

J. Hernandez

J. Hernandez



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	38	Pass
Pendulum Velocity	m/s	5.95	6.19	6.13	Pass
Pendulum Velocity at 10 ms	m/s	1.50	1.90	1.65	Pass
Pendulum Velocity at 20 ms	m/s	3.10	3.90	3.33	Pass
Pendulum Velocity at 30 ms	m/s	4.60	5.60	4.92	Pass
Peak "D" Plane Rotation	deg	99.0	114.0	105.6	Pass
Peak Moment in Rotation	Nm	-65.0	-53.0	-56.2	Pass
Negative Moment Decay to -10 Nm	ms	94.0	114.0	104.0	Pass
Overall Test Results					Pass



Technician:

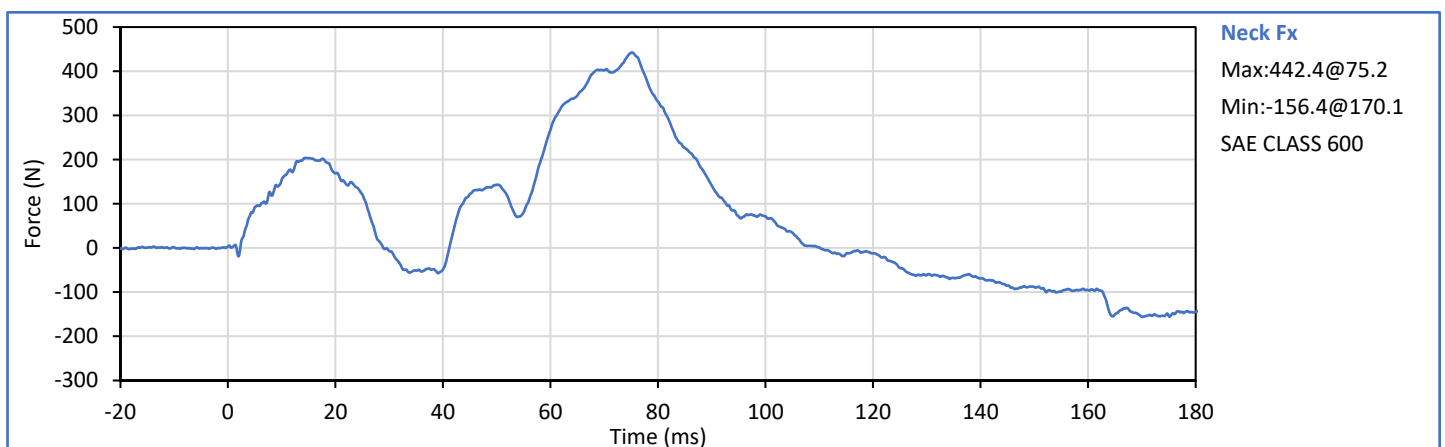
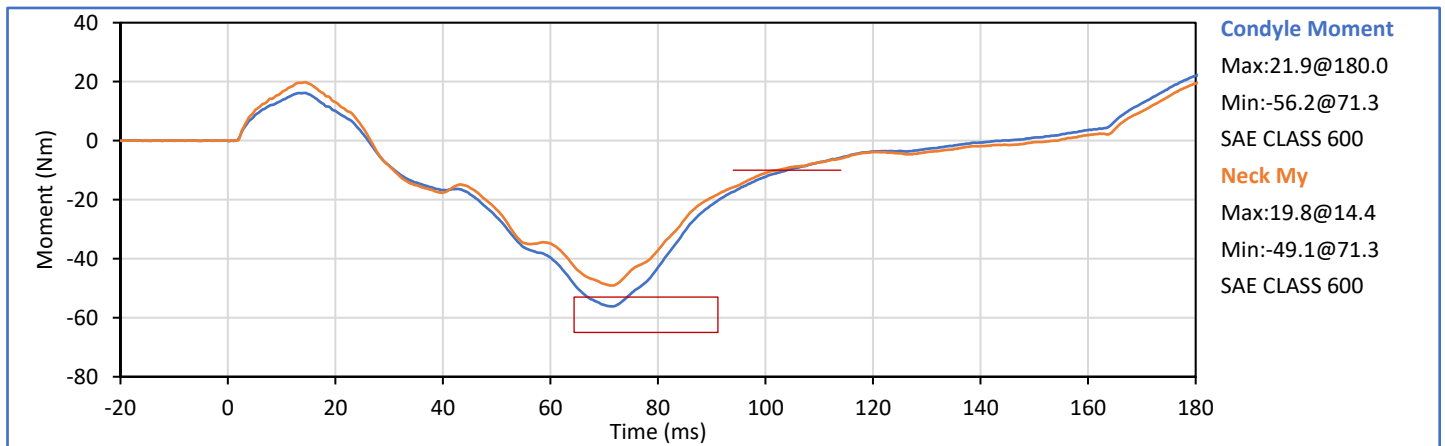
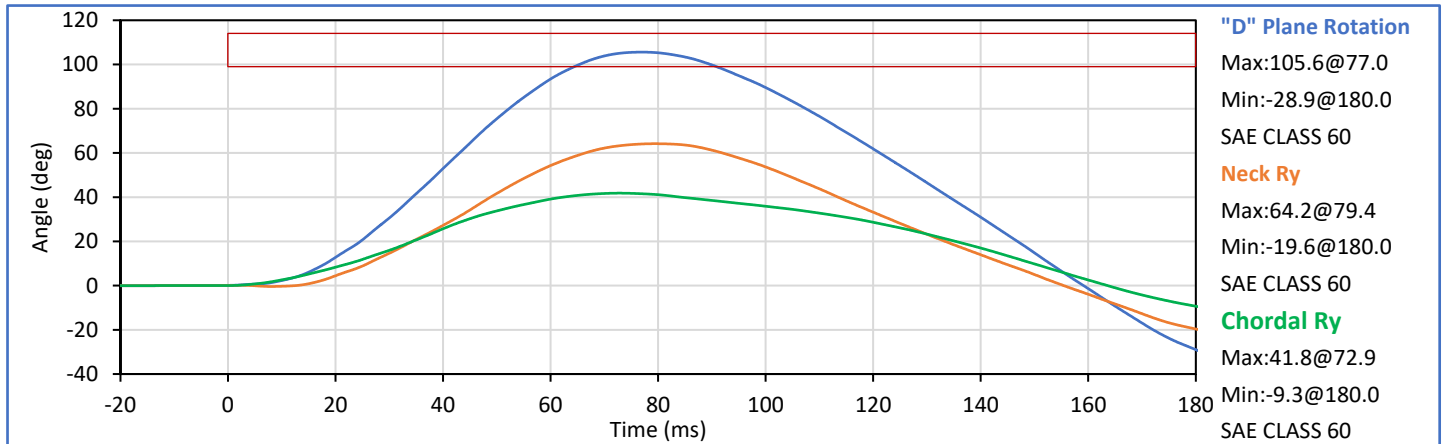
J. Perez

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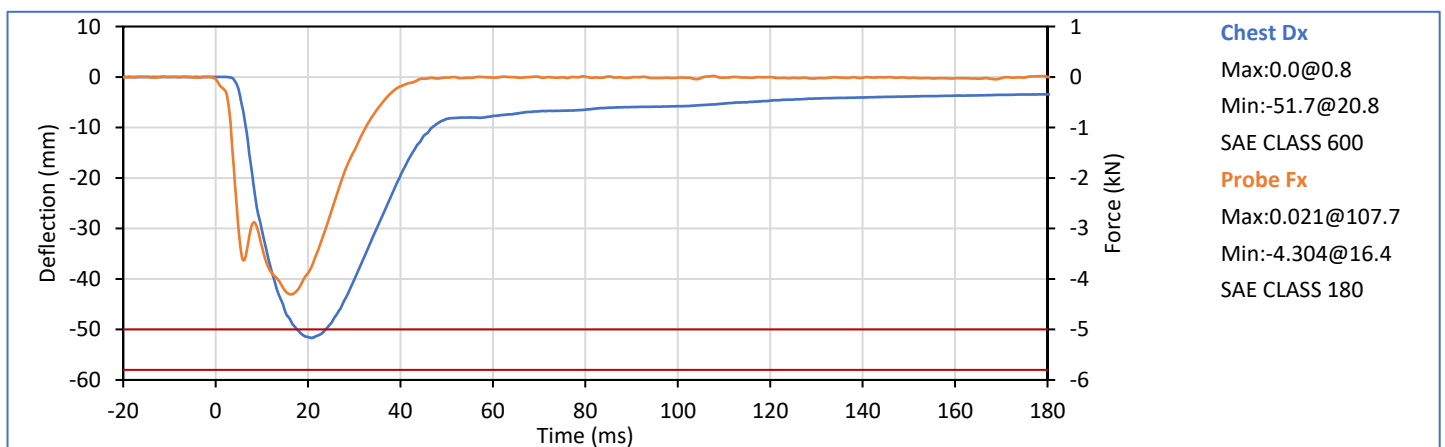
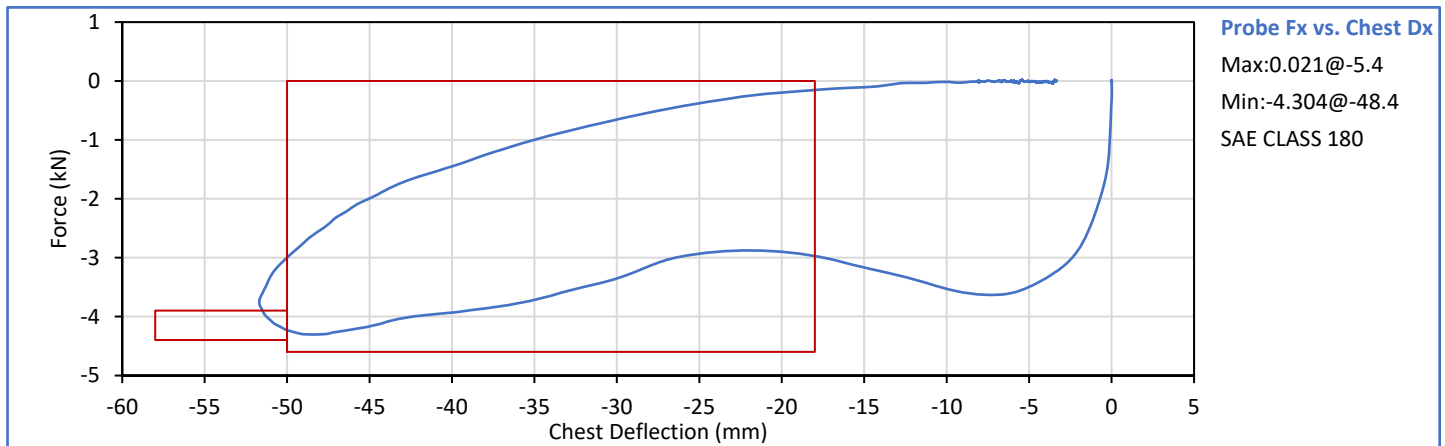
Approved By:

J. Hernandez

J. Hernandez



Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	20.6	22.2	21.4	Pass
Laboratory RelativeHumidity	%	10	70	38	Pass
Probe Velocity	m/s	6.59	6.83	6.71	Pass
Peak Chest Deflection	mm	-58.0	-50.0	-51.7	Pass
Peak Probe Force, 50 and 58 mm	kN	-4.400	-3.900	-4.232	Pass
Peak Probe Force, 18 and 50 mm	kN	-4.600	0.000	-4.304	Pass
Internal Hysteresis	%	69.0	85.0	76.8	Pass
Overall Test Results				Pass	Pass



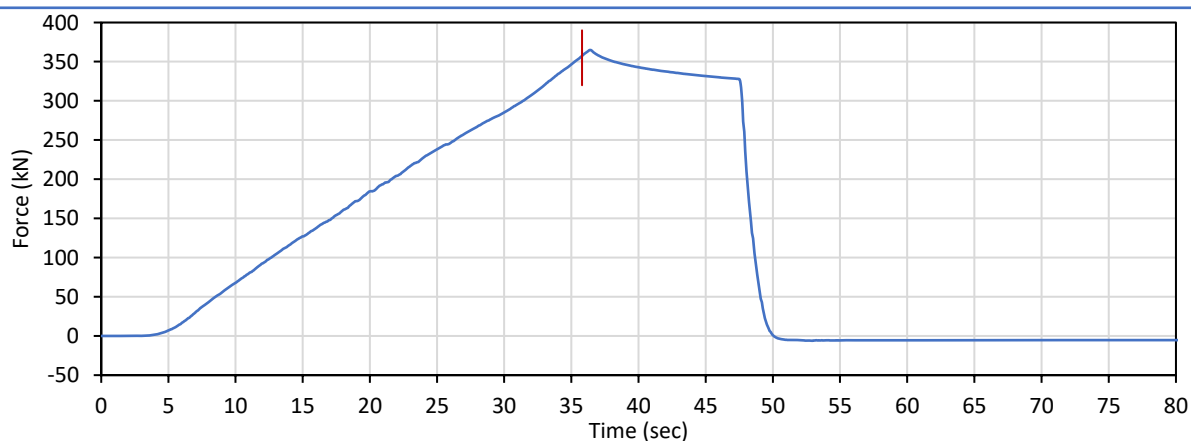
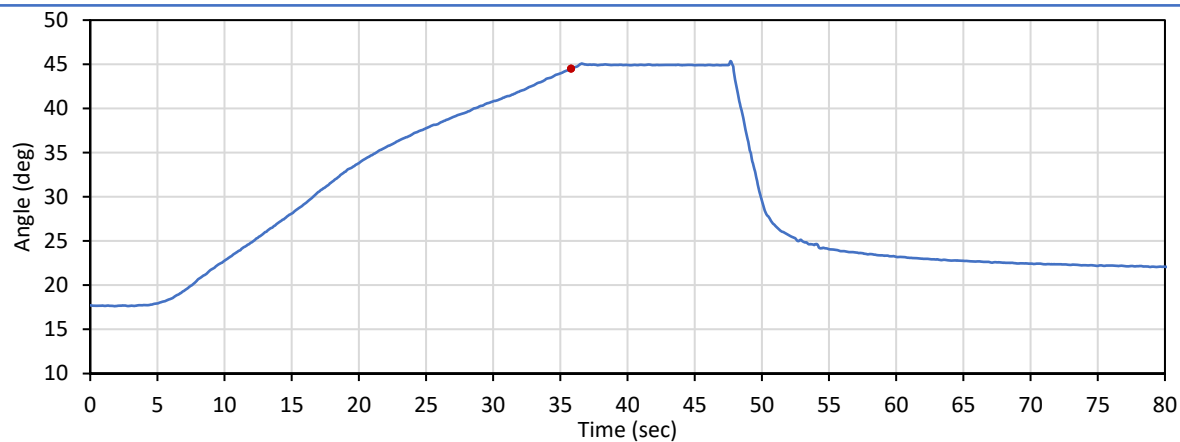
Technician:

J. Perez
J. Perez

Approved By:

J. Hernandez
J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.6	Pass
Laboratory Humidity	%	10	70	38	Pass
Orientation Angle	deg	0.0	20.0	17.1	Pass
Test Initial Angle	deg	11.0	19.0	17.7	Pass
Peak Force at 45° (+/-0.5°)	N	320.0	390.0	357.3	Pass
Torso Flexion Rate	deg/s	0.50	1.50	0.89	Pass
Final Reference Plane Angle	deg	-8.0	8.0	3.3	Pass
Overall Test Results					Pass



Technician:

J. Perez

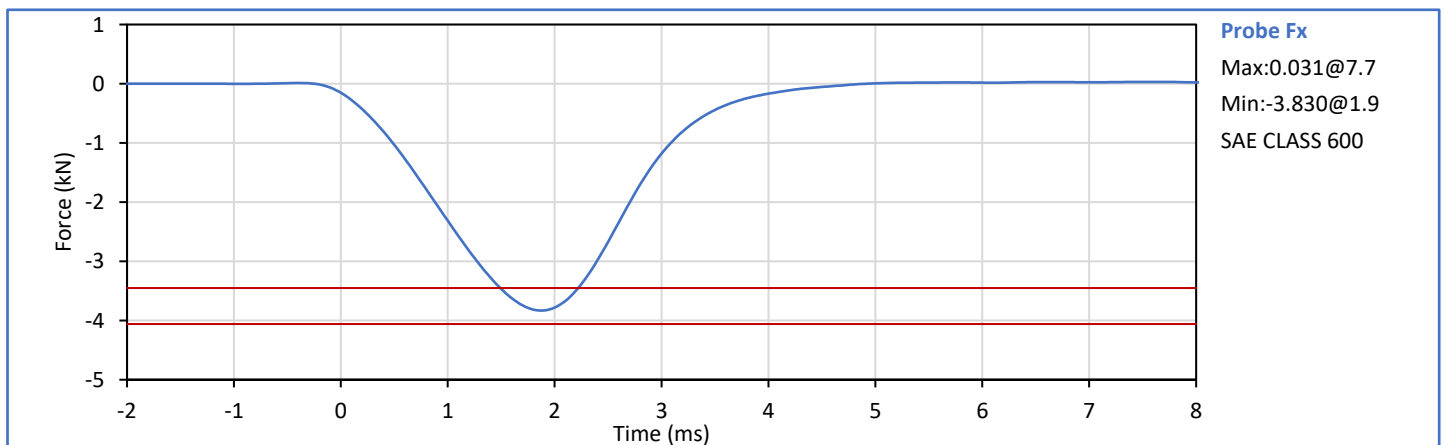
J. Perez

Approved By:

J. Hernandez

J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.2	Pass
Laboratory Relative Humidity	%	10	70	36	Pass
Probe Velocity	m/s	2.070	2.130	2.105	Pass
Peak Resistive Force	kN	-4.060	-3.450	-3.830	Pass
				Overall Test Results	Pass



Technician:

J. Perez

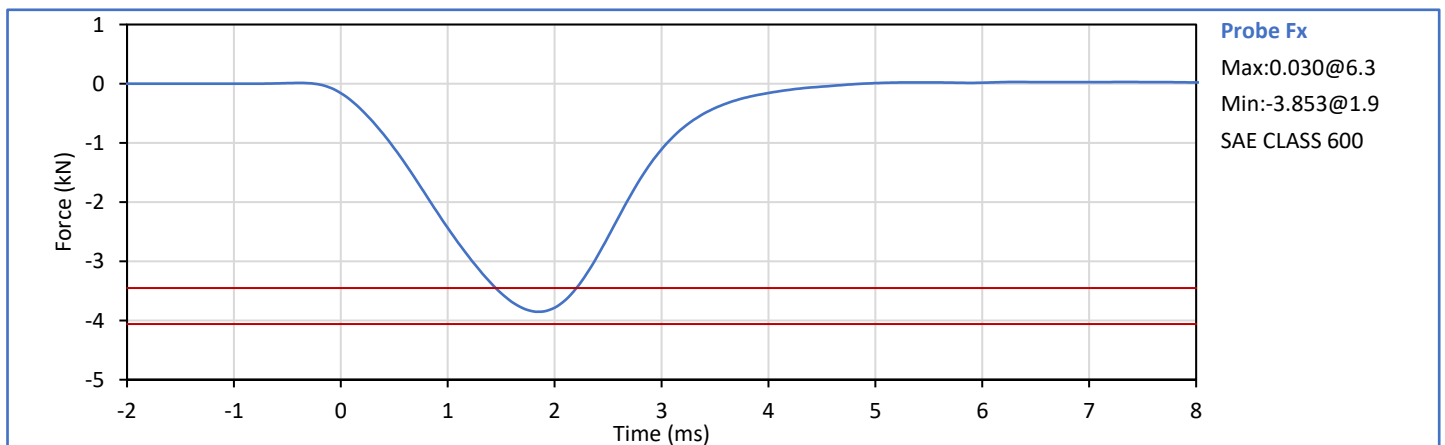
J. Perez

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J. Hernandez

Tested Parameter	Units	Spec. Low	Spec. High	Result	Pass/Fail
Laboratory Temperature	°C	18.9	25.6	21.2	Pass
Laboratory Relative Humidity	%	10	70	36	Pass
Probe Velocity	m/s	2.070	2.130	2.107	Pass
Peak Resistive Force	kN	-4.060	-3.450	-3.853	Pass
Overall Test Results					Pass



Technician:

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APPENDIX D
TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION

Table 1 - Driver ATD Instrumentation

Sensor Location	Sensor S\N	Mfr	Model	Cal Date
Head Acceleration X Primary	P49209	Endevco	7264C-2k	2024-11-16
Head Acceleration Y Primary	P49228	Endevco	7264C-2k	2024-11-16
Head Acceleration Z Primary	P50101	Endevco	7264C-2k	2024-11-16
Head Acceleration X Redundant	P50103	Endevco	7264C-2k	2024-11-16
Head Acceleration Y Redundant	P49210	Endevco	7264C-2k	2024-11-16
Head Acceleration Z Redundant	P58713	Endevco	7264C-2k	2024-11-16
Head Rotation Rate X	ARS7426	DTS	ARS PRO-8k (2kHz)	2024-07-26
Head Rotation Rate Y	ARS7587	DTS	ARS PRO-8k (2kHz)	2024-07-31
Head Rotation Rate Z	ARS7480	DTS	ARS PRO-8k (2kHz)	2024-07-31
Upper Neck Force X	1646 Fx	R.A. Denton	1716A	2024-09-20
Upper Neck Force Y	1646 Fy	R.A. Denton	1716A	2024-09-20
Upper Neck Force Z	1646 Fz	R.A. Denton	1716A	2024-09-20
Upper Neck Moment X	1646 Mx	R.A. Denton	1716A	2024-09-20
Upper Neck Moment Y	1646 My	R.A. Denton	1716A	2024-09-20
Upper Neck Moment Z	1646 Mz	R.A. Denton	1716A	2024-09-20
Chest Acceleration X Primary	P52072	Endevco	7264C-2k	2024-11-15
Chest Acceleration Y Primary	P49208	Endevco	7264C-2k	2024-11-15
Chest Acceleration Z Primary	P51264	Endevco	7264C-2k	2024-11-15
Chest Acceleration X Redundant	P49461	Endevco	7264C-2k	2024-11-15
Chest Acceleration Y Redundant	P58774	Endevco	7264C-2k	2024-11-15
Chest Acceleration Z Redundant	P49168	Endevco	7264C-2k	2024-11-15
Chest Deflection	0606 (H3)	Servo	14CBI-3615	2024-11-16
Pelvis Acceleration X	P49238	Endevco	7264C-2k	2024-11-15
Pelvis Acceleration Y	P51278	Endevco	7264C-2KTZ	2024-11-15
Pelvis Acceleration Z	P50087	Endevco	7264C-2k	2024-11-15
Left Femur Force Z	DT0999 (pri)	Humanetics	3821JLN2	2024-07-25
Right Femur Force Z	DS4141 (pri)	Humanetics	3821JLN2	2024-07-25
Left Femur Force Z Redundant	DT0999 (red)	Humanetics	3821JLN2	2024-07-25
Right Femur Force Z Redundant	DS4141 (red)	Humanetics	3821JLN2	2024-07-25
Left Upper Tibia Moment X	374 Mx	R.A. Denton	3643	2024-05-24
Left Upper Tibia Moment Y	374 My	R.A. Denton	3643	2024-05-24
Left Upper Tibia Force Z	374 Fz	R.A. Denton	3643	2024-05-24
Left Lower Tibia Moment X	DH3317 Mx	FTSS	IF-853	2024-05-24
Left Lower Tibia Moment Y	DH3317 My	FTSS	IF-853	2024-05-24
Left Lower Tibia Force Z	DH3317 Fz	FTSS	IF-853	2024-05-24
Right Upper Tibia Moment X	414 Mx	R.A. Denton	3643	2024-05-24
Right Upper Tibia Moment Y	414 My	R.A. Denton	3643	2024-05-24
Right Upper Tibia Force Z	414 Fz	R.A. Denton	3643	2024-05-24
Right Lower Tibia Moment X	405 Mx	R.A. Denton	3644	2024-05-24
Right Lower Tibia Moment Y	405 My	R.A. Denton	3644	2024-05-24
Right Lower Tibia Force Z	405 Fz	R.A. Denton	3644	2024-05-24
Left Ankle Acceleration X	03E20-N09	Entran	EGEB6Q-2k	2024-11-16
Left Ankle Acceleration Z	P68074	Endevco	7264C-2k	2024-11-16
Left Toe Acceleration Z	03H07-Z10	Entran	EGEB6Q-2k	2024-11-16
Right Ankle Acceleration X	06E20-R08	Entran	EGEB6Q-2k	2024-11-16
Right Ankle Acceleration Z	06A07-R08	Entran	EGEB6Q-2k	2024-11-16
Right Toe Acceleration Z	02I10-N27	Entran	EGEB6Q-2k	2024-11-16
Seat Belt Outside Lap Force	313	FTSS	IF-964	2025-04-03
Seat Belt Upper Diagonal Force	315	FTSS	IF-964	2025-04-03

Table 2 - Right Front Passenger ATD Instrumentation

Sensor Location	Sensor S/N	Mfr	Model	Cal Date
Head Acceleration X Primary	P51889	Endevco	7264C-2k	2025-04-03
Head Acceleration Y Primary	P51861	Endevco	7264C-2k	2025-04-03
Head Acceleration Z Primary	P52077	Endevco	7264C-2k	2025-04-03
Head Acceleration X Redundant	P58835	Endevco	7264C-2k	2025-04-03
Head Acceleration Y Redundant	P51703	Endevco	7264C-2k	2025-04-03
Head Acceleration Z Redundant	P52096	Endevco	7264C-2k	2025-04-03
Head Rotation Rate X	ARS7510	DTS	ARS PRO-8k (2kHz)	2024-07-31
Head Rotation Rate Y	ARS7548	DTS	ARS PRO-8k (2kHz)	2024-07-31
Head Rotation Rate Z	ARS7573	DTS	ARS PRO-8k (2kHz)	2024-07-31
Upper Neck Force X	452 Fx	R.A. Denton	1716A	2024-06-04
Upper Neck Force Y	452 Fy	R.A. Denton	1716A	2024-06-04
Upper Neck Force Z	452 Fz	R.A. Denton	1716A	2024-06-04
Upper Neck Moment X	452 Mx	R.A. Denton	1716A	2024-06-04
Upper Neck Moment Y	452 My	R.A. Denton	1716A	2024-06-04
Upper Neck Moment Z	452 Mz	R.A. Denton	1716A	2024-06-04
Chest Acceleration X Primary	P58860	Endevco	7264C-2k	2025-04-02
Chest Acceleration Y Primary	P51724	Endevco	7264C-2k	2025-04-02
Chest Acceleration Z Primary	P58711	Endevco	7264C-2k	2025-04-02
Chest Acceleration X Redundant	P52049	Endevco	7264C-2k	2025-04-02
Chest Acceleration Y Redundant	P49241	Endevco	7264C-2k	2025-04-02
Chest Acceleration Z Redundant	P52048	Endevco	7264C-2k	2025-04-02
Chest Deflection	0724 (HF)	Servo	14CBI-3615	2024-11-15
Pelvis Acceleration X	P52090	Endevco	7264C-2k	2025-04-02
Pelvis Acceleration Y	P58849	Endevco	7264C-2k	2025-04-02
Pelvis Acceleration Z	P58756	Endevco	7264C-2k	2025-04-02
Left Femur Force Z	112 (pri)	R.A. Denton	3821JTF	2024-06-05
Right Femur Force Z	132 (pri)	R.A. Denton	3821JTF	2024-06-05
Left Femur Force Z Redundant	112 (red)	R.A. Denton	3821JTF	2024-06-05
Right Femur Force Z Redundant	132 (red)	R.A. Denton	3821JTF	2024-06-05
Left Upper Tibia Moment X	468 Mx	R.A. Denton	3643	2024-05-10
Left Upper Tibia Moment Y	468 My	R.A. Denton	3643	2024-05-10
Left Upper Tibia Force Z	468 Fz	R.A. Denton	3643	2024-05-10
Left Lower Tibia Moment X	499 Mx	R.A. Denton	3644	2024-05-10
Left Lower Tibia Moment Y	499 My	R.A. Denton	3644	2024-05-10
Left Lower Tibia Force Z	499 Fz	R.A. Denton	3644	2024-05-10
Right Upper Tibia Moment X	DH3302 Mx	FTSS	IF-857	2024-05-10
Right Upper Tibia Moment Y	DH3302 My	FTSS	IF-857	2024-05-10
Right Upper Tibia Force Z	DH3302 Fz	FTSS	IF-857	2024-05-10
Right Lower Tibia Moment X	399 Mx	R.A. Denton	3644	2024-05-10
Right Lower Tibia Moment Y	399 My	R.A. Denton	3644	2024-05-10
Right Lower Tibia Force Z	399 Fz	R.A. Denton	3644	2024-05-10
Left Ankle Acceleration X	P58897	Endevco	7264C-2k	2024-11-12
Left Ankle Acceleration Z	P52057	Endevco	7264C-2k	2024-11-12
Left Toe Acceleration Z	P49224	Endevco	7264C-2k	2024-11-12
Right Ankle Acceleration X	P52019	Endevco	7264C-2k	2024-11-12
Right Ankle Acceleration Z	P58755	Endevco	7264C-2k	2024-11-12
Right Toe Acceleration Z	P52076	Endevco	7264C-2k	2024-11-12
Seat Belt Outside Lap Force	251	FTSS	IF-964	2025-04-03
Seat Belt Upper Diagonal Force	263	FTSS	IF-964	2025-04-03

Table 3 - Vehicle Instrumentation

Sensor Location	Sensor S\N	Mfr	Model	Cal Date
Left Rear Primary Ax	M11370	Endevco	758H-2k	2025-02-07
Right Rear Primary Ax	M11232	Endevco	758H-2k	2025-02-24
Engine Top Ax	M13681	Endevco	758H-2k	2025-02-22
Engine Bottom Ax	M12831	Endevco	758H-2k	2025-02-22
Left Rear Az	M12890	Endevco	758H-2k	2025-02-22
Right Rear Az	M13682	Endevco	758H-2k	2025-02-11
Left Rear Redundant Ax	M12872	Endevco	758H-2k	2025-02-06
Right Rear Redundant Ax	M12808	Endevco	758H-2k	2025-02-22