

REPORT NUMBER: 208-MGA-2014-009

**VEHICLE SAFETY COMPLIANCE TESTING
FOR
FMVSS 208, OCCUPANT CRASH PROTECTION
FMVSS 212, WINDSHIELD MOUNTING
FMVSS 219, WINDSHIELD INTRUSION (PARTIAL)
FMVSS 301, FUEL SYSTEM INTEGRITY
FMVSS 305, ELECTROLYTE SPILLAGE & ELECTRICAL SHOCK PROTECTION**

**NISSAN MOTOR CO. LTD
2014 INFINITI Q50 PASSENGER CAR
NHTSA NO.: C20145200**

**PREPARED BY:
MGA RESEARCH CORPORATION
5000 WARREN ROAD
BURLINGTON, WI 53105**



TEST DATES: MAY 12, 2014 – JUNE 23, 2014

FINAL REPORT DATE: NOVEMBER 4, 2014

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVENUE, S.E., NVS-220
WASHINGTON, D.C. 20590**

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Prepared by: Jeff Lewandowski Date: November 4, 2014
Jeff Lewandowski, Project Engineer

Reviewed by: David Winkelbauer Date: November 4, 2014
David Winkelbauer, Facility Director

FINAL REPORT ACCEPTED BY OVSC:

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SECTION 1
PURPOSE OF COMPLIANCE TESTS

This Federal Motor Vehicle Safety Standard 208 compliance test is part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No.: DTNH22-13-D-00313. The purpose of this test was to determine whether the subject vehicle, a 2014 Infiniti Q50, NHTSA No.: C20145200, meets certain performance requirements of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Mounting"; FMVSS 219, "Windshield Zone Intrusion"; FMVSS 301, "Fuel System Integrity", and FMVSS 305, "Electric Powered Vehicles: Electrolyte Spillage and Electrical Shock Protection." The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No.: TP208-14 dated April 16, 2008.

SECTION 2

TESTS PERFORMED

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
 Test Dates: 5/12/14 – 6/23/14

The following checked items indicate the tests that were performed:

X	1.	Rear seating position seat belts
X	2.	Air bag labels (S4.5.1)
X	3.	Readiness indicator (S4.5.2)
X	4.	Passenger air bag manual cut-off device (S4.5.4)
X	5.	Lap belt lockability (S7.1.1.5)
X	6.	Seat belt warning system (S7.3)
X	7.	Seat belt contact force (S7.4.3)
X	8.	Seat belt latch plate access (S7.4.4)
X	9.	Seat belt retraction (S7.4.5)
X	10.	Seat belt guides and hardware (S7.4.6)
X	11.	Air bag suppression telltale (S19.2.2)
X	12.	Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R)
X	13.	Suppression tests with Newborn infant (Part 572, Subpart K)
X	14.	Suppression tests with 3-year-old dummy (Part 572, Subpart P)
X	15.	Suppression tests with 6-year-old dummy (Part 572, Subpart N)
X	16.	Test of Reactivation of the passenger air bag system with an unbelted 5 th percentile female dummy and representative 5 th percentile female.
	17.	Low risk deployment test with 12-month-old dummy (Part 572, Subpart R)
	18.	Low risk deployment test with 3-year-old dummy (Part 572, Subpart P)
	19.	Low risk deployment test with 6-year-old dummy (Part 572, Subpart N)
X	20.	Low risk deployment test with 5 th female dummy (Part 572, Subpart O)
X	21.	Impact Tests
		Frontal Oblique
		Belted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
		Unbelted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
		Unbelted 50 th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a)(1) or S5.1.2(b))
X		Frontal 0°
		Belted 50 th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
		Belted 50 th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
		Belted 5 th female dummy driver (0 to 48 kmph) (S16.1(a))
		Belted 5 th female dummy passenger (0 to 48 kmph) (S16.1(a))
		Belted 50 th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
		Unbelted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
		Unbelted 50 th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
		Unbelted 50 th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
		X Unbelted 5 th female dummy driver (32 to 40 kmph) (S16.1(b))
		X Unbelted 5 th female dummy passenger (32 to 40 kmph) (S16.1(b))
		40% Offset 0° Belted 5 th female dummy driver and passenger (0 to 40 kmph) (S18.1)
	22.	FMVSS 204 Indicant Test
X	23.	FMVSS 212 Test
X	24.	FMVSS 219 Indicant Test
X	25.	FMVSS 301 Frontal Test
X	26.	FMVSS 305 Frontal Indicant Test

For the crash tests, the vehicle was instrumented with 8 accelerometers. The data from the vehicle and dummies were sampled at 10,000 samples per second and processed as specified in SAE J211/1 MAR95 and FMVSS 208, S4.13.

The dynamic tests were recorded using high-speed digital video.

SECTION 3

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
 Test Date: 5/13/14

5th Percentile Female Low Risk Deployments

5th Percentile Female SN 510 Position 1 (Chin On Module) 5/13/14

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	52
Peak Nij (Nte)	1.0	0.3
Time (ms)	NA	94.0
Peak Nij (Ntf)	1.0	0.3
Time (ms)	NA	41.0
Peak Nij (Nce)	1.0	0.2
Time (ms)	NA	155.0
Peak Nij (Ncf)	1.0	0.1
Time (ms)	NA	18.5
Neck Tension	2070 N	838
Neck Compression	2520 N	185
Chest g	60 g	13
Chest Displacement	52 mm	11
Left Femur	6805 N	45
Right Femur	6805 N	63

Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

5th Percentile Female SN 510 Position 2 (Chin On Rim) 5/13/14

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	6
Peak Nij (Nte)	1.0	0.3
Time (ms)	NA	17.9
Peak Nij (Ntf)	1.0	0.1
Time (ms)	NA	89.9
Peak Nij (Nce)	1.0	0.0
Time (ms)	NA	7.8
Peak Nij (Ncf)	1.0	0.1
Time (ms)	NA	95.0
Neck Tension	2070 N	585
Neck Compression	2520 N	121
Chest g	60 g	15
Chest Displacement	52 mm	15
Left Femur	6805 N	45
Right Femur	6805 N	30

Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

SECTION 3
INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
 Test Date: 6/23/14

40 kmph Frontal Crash

Impact Angle:	0°			
Belted Dummies:		Yes	X	No

Speed Range:		0 to 40 kmph	X	32 to 40 kmph
		0 to 48 kmph		0 to 56 kmph

Test Speed (kmph):	39.7	Test Weight (kg):	2017.7
--------------------	------	-------------------	--------

Driver Dummy:	X	5 th female		50 th male
Passenger Dummy:	X	5 th female		50 th male

5th Percentile Female Frontal Crash Test
Vehicles certified to S16.1 (a) (1), S16.1 (a) (2), S16.1 (b), or S18.1

Injury Criteria	Max. Allowable Injury Assessment Values	Driver	Passenger
HIC15	700	84	32
N _{te}	1.0	0.5	0.3
N _{tf}	1.0	0.1	0.2
N _{ce}	1.0	0.5	0.2
N _{cf}	1.0	0.1	0.3
Neck Tension	2620 N	1071	482
Neck Compression	2520 N	326	423
Chest g	60 g	35	27
Chest Displacement	52 mm	14	4
Left Femur	6805 N	3587	3601
Right Femur	6805 N	4612	4057

SECTION 4
DISCUSSION OF TESTS

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
Test Dates: 5/12/14 – 6/23/14

A blanket and visor were not used in the suppression testing because they did not affect the sensing system used on the vehicle.

An indicant suppression test with a representative 5th percentile female was performed at the request of the COTR.

The 2014 Infiniti Q50 (C20145200) was tested to FMVSS 305 in conjunction with the FMVSS 208 frontal impact. The test was performed in accordance with the specifications of the Office of Vehicle Safety Compliance (OVSC) Test Procedures TP-305-00 to determine compliance to the requirements of Federal Motor Vehicle Safety Standards (FMVSS) 305, "Electric Powered Vehicles: Electrolyte Spillage and Electrical Shock Protection".

Based on the test results, the 2014 Infiniti Q50 (C20145200) appears to meet the requirements of FMVSS 305 testing.

There was no valid data after 40 msec on the Bottom of Engine (X) accelerometer during the frontal impact crash test.

There was no valid data after 25 msec on the Left Brake Caliper (X) accelerometer during the frontal impact crash test.

Some pre-test photo signs for frontal impact crash test conducted on 6-23-14 incorrectly indicate that the test vehicle as an "Infinity". The placard in the photo should indicate Infiniti.

SECTION 5
TEST DATA SHEETS

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
Test Dates: 5/12/14 – 6/23/14

DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
Test Dates: 5/12/14 – 6/23/14

COTR Signature: 

Test to be performed for this vehicle are checked below:

☒	1.	Rear Seating Position Seat Belts
☒	2.	Air Bag Labels (S4.5.1)
☒	3.	Readiness Indicator (S4.5.2)
☒	4.	Passenger Air Bag Manual Cut-off Device (S4.5.4)
☒	5.	Lap Belt Lockability (S7.1.1.5)
☒	6.	Seat Belt Warning System (S7.3)
☒	7.	Seat Belt Contact Force (S7.4.3)
☒	8.	Seat Belt Latch Plate Access (S7.4.4)
☒	9.	Seat Belt Retraction (S7.4.5)
☒	10.	Seat Belt Guides and Hardware (S7.4.6)
☒	11.	Air bag suppression telltale (S19.2.2)
☒	12.	Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints (mid-height seat position):
Section B – Rear Facing (unbelted and belted rear facing, unbelted forward facing)		
☐		Century Smart Fit 4543 ☐ Full Rearward ☐ Mid Position ☐ Full Forward
☒		Cosco Arriva 22-013 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☐		Evenflo Discovery Adjust Right 212 ☐ Full Rearward ☐ Mid Position ☐ Full Forward
☐		Graco Infant 8457 ☐ Full Rearward ☐ Mid Position ☐ Full Forward
☒		Graco Snugride ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☒		Peg Perego Viaggio ☒ Full Rearward ☒ Mid Position ☒ Full Forward
Section C – Convertible (unbelted and belted rear facing, unbelted and belted forward facing)		
☒		Britax Roundabout E9L02 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☒		Cosco High Back Booster 22-209 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☒		Cosco Summit Deluxe 22-262 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☐		Cosco Touriva 02519 ☐ Full Rearward ☐ Mid Position ☐ Full Forward
☒		Evenflo Generations 352 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☐		Evenflo Medallion 254 ☐ Full Rearward ☐ Mid Position ☐ Full Forward
☒		Evenflo Tribute V 379 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☒		Graco ComfortSport ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☐		Graco Platinum Cargo ☐ Full Rearward ☐ Mid Position ☐ Full Forward
☒		Graco Safeseat Step 2 ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☒	13.	Suppression tests with newborn infant (Part 572, Subpart K) using the following indicated child restraints (mid-height seat position):
Section A – Car Bed (Belted)		
☒		Angel Guard Angel Ride ☒ Full Rearward ☒ Mid Position ☒ Full Forward
☒	14.	Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required (mid-height seat position):

Section C – Convertible (Belted forward-facing)

X	Britax Roundabout E9L02	X	Full Rearward	X	Mid Position	X	Full Forward
X	Cosco High Back Booster 22-209	X	Full Rearward	X	Mid Position	X	Full Forward
	Cosco Summit Deluxe 22-262		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
X	Evenflo Generations 352	X	Full Rearward	X	Mid Position	X	Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward
X	Evenflo Tribute V 379	X	Full Rearward	X	Mid Position	X	Full Forward
X	Graco ComfortSport	X	Full Rearward	X	Mid Position	X	Full Forward
	Graco Platinum Cargo		Full Rearward		Mid Position		Full Forward
X	Graco Safeseat Step 2	X	Full Rearward	X	Mid Position	X	Full Forward

Section D – Toddler/Belt Positioning Booster (Belted)

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
X	Cosco High Back Booster 22-209	X	Full Rearward	X	Mid Position	X	Full Forward
X	Cosco Summit Deluxe 22-262	X	Full Rearward	X	Mid Position	X	Full Forward
	Evenflo Generations 352		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward
X	Graco Platinum Cargo	X	Full Rearward	X	Mid Position	X	Full Forward

15. Suppression tests with representative 3-year-old child using the following indicated child restraints where a child restraint is required (mid-height position).

(Appendix H, Data Sheet 19H and 20H)

Section C – Convertible (Belted forward-facing)

	Britax Roundabout E9L02		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 22-209		Full Rearward		Mid Position		Full Forward
	Cosco Summit Deluxe 22-262		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
	Evenflo Generations 352		Full Rearward		Mid Position		Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward
	Evenflo Tribute V 379		Full Rearward		Mid Position		Full Forward
	Graco ComfortSport		Full Rearward		Mid Position		Full Forward
	Graco Platinum Cargo		Full Rearward		Mid Position		Full Forward
	Graco Safeseat Step 2		Full Rearward		Mid Position		Full Forward

Section D – Toddler/Belt Positioning Booster (Belted)

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 22-209		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward

- ☒ 16. Suppression tests with 3-year-old dummy (Part 572, Subpart P) in the following positions (mid-height seat position):
- | | | | |
|---|---|--|--|
| ☒ Sitting on seat with back against seat back (S22.2.2.1) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Sitting on seat with back against reclined seat back (S22.2.2.2) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Sitting on seat with back not against seat back (S22.2.2.3) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Standing on seat, facing forward (S22.2.2.5) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Kneeling on seat facing forward (S22.2.2.6) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Kneeling on seat facing rearward (S22.2.2.7) | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☐ Lying on seat (S22.2.2.8) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
- ☐ 17. Suppression tests with representative 3-year-old child in the following positions (mid-height seat position):
- | | | | |
|--|--|---------------------------------------|---------------------------------------|
| ☐ Sitting on seat with back against seat back (S22.2.2.1) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Sitting on seat with back against reclined seat back (S22.2.2.2) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Sitting on seat with back not against seat back (S22.2.2.3) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Standing on seat, facing forward (S22.2.2.5) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Kneeling on seat facing forward (S22.2.2.6) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Kneeling on seat facing rearward (S22.2.2.7) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Lying on seat (S22.2.2.8) | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
- ☒ 18. Suppression tests with 6-year-old dummy (Part 572, Subpart N) using the following indicated child restraints where a child restraint is required (mid-height seat position):
- Section D
- | | | | |
|--|---|--|--|
| ☐ Britax Roadster 9004 | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☒ Cosco High Back Booster 22-209 | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☒ Cosco Summit Deluxe 22-262 | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |
| ☐ Evenflo Generations 352 | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☐ Evenflo Right Fit 245 | ☐ Full Rearward | ☐ Mid Position | ☐ Full Forward |
| ☒ Graco Platinum Cargo | ☒ Full Rearward | ☒ Mid Position | ☒ Full Forward |

- ☐ 19. Suppression tests with representative 6-year-old child using the following indicated child restraints where a child restraint is required (mid-height seat position):
- Section D
- | | | | | | | | |
|--------------------------|--------------------------------|--------------------------|---------------|--------------------------|--------------|--------------------------|--------------|
| ☐ | Britax Roadster 9004 | ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward |
| ☐ | Cosco High Back Booster 22-209 | ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward |
| ☐ | Cosco Summit Deluxe 22-262 | ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward |
| ☐ | Evenflo Generations 352 | ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward |
| ☐ | Evenflo Right Fit 245 | ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward |
| ☐ | Graco Platinum Cargo | ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward |
- ☒ 20. Suppression tests with 6-year-old dummy (Part 572, Subpart N) in the following positions (mid-height seat position):
- | | | | | | | | |
|-------------------------------------|--|-------------------------------------|--------------|-------------------------------------|--------------|--|--|
| ☒ | Sitting on seat with back against seat back (S22.2.2.1) | | | | | | |
| ☒ | Full Rearward | ☒ | Mid Position | ☒ | Full Forward | | |
| ☒ | Sitting on seat with back against reclined seat back (S22.2.2.2) | | | | | | |
| ☒ | Full Rearward | ☒ | Mid Position | ☒ | Full Forward | | |
| ☒ | Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4) | | | | | | |
| ☒ | Full Rearward | ☒ | Mid Position | ☒ | Full Forward | | |
| ☒ | Sitting back in the seat and leaning on the right front passenger door (S24.2.3) | | | | | | |
| ☒ | Full Rearward | ☒ | Mid Position | ☒ | Full Forward | | |
- ☐ 21. Suppression tests with representative 6-year-old child in the following positions (mid-height seat position):
- | | | | | | | | |
|--------------------------|--|--------------------------|--------------|--------------------------|--------------|--|--|
| ☐ | Sitting on seat with back against seat back (S22.2.2.1) | | | | | | |
| ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward | | |
| ☐ | Sitting on seat with back against reclined seat back (S22.2.2.2) | | | | | | |
| ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward | | |
| ☐ | Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4) | | | | | | |
| ☐ | Full Rearward | ☐ | Mid Position | ☐ | Full Forward | | |
| ☐ | Sitting back in the seat and leaning on the right front passenger door (S24.2.3) | | | | | | |
- ☒ 22. Test of Reactivation of the Passenger Air Bag System with an Unbelted 5th percentile female dummy (S20.3, 22.3, S24.3) (mid-height seat position). Perform this test after the following suppression tests: After each restraint.
- ☒ 23. Test of Reactivation of the Passenger Air Bag System with a representative 5th percentile female (S20.3, 22.3, S24.3) (mid-height seat position). Perform this test after the following suppression tests: After each restraint.
- ☐ 24. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints (full forward, mid-height seat position)(S20.4):
- Section B
- | | |
|--------------------------|------------------------------------|
| ☐ | Century Smart Fit 4543 |
| ☐ | Cosco Arriva 22-013 |
| ☐ | Evenflo Discovery Adjust Right 212 |
| ☐ | Graco Infant 8457 |
| ☐ | Graco Snugride |
| ☐ | Peg Perego Viaggio |
- Section C
- | | |
|--------------------------|-------------------------|
| ☐ | Britax Roundabout E9L02 |
| ☐ | Cosco Touriva 02519 |
| ☐ | Evenflo Medallion 254 |
| ☐ | Evenflo Tribute V 379 |
| ☐ | Graco ComfortSport |

- ☐ 25. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions:
- ☐ Position 1 (rearmost, lowest seat position)
 - ☐ Position 2 (mid-height seat position)
- ☐ 26. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N) in the following positions:
- ☐ Position 1 (rearmost, lowest seat position)
 - ☐ Position 2 (mid-height seat position)
- ☒ 27. Low risk deployment test with 5th female dummy (Part 572, Subpart O) in the following positions:
- ☒ Position 1 (mid-height seat position)
 - ☒ Position 2 (mid-height seat position)
- ☒ 28. Impact Tests
- | ☐ | Frontal Oblique | Impact Angle: | Test Speed: |
|-------------------------------------|---|-----------------|------------------------------|
| ☐ | Belted 50 th male dummy driver and passenger | (0 to 48 kmph) | (S5.1.1(a)) |
| ☐ | Unbelted 50 th male dummy driver and passenger | (0 to 48 kmph) | (S5.1.2(a)(1)) |
| ☐ | Unbelted 50 th male dummy driver and passenger | (32 to 40 kmph) | (S5.1.2(a)(2) or S5.1.2(b)) |
| ☒ | Frontal 0° - Test Speed: 39.7 kmph | | |
| ☐ | Belted 50 th male dummy driver | (0 to 48 kmph) | (S5.1.1.(b)(1) or S5.1.1(a)) |
| ☐ | Belted 50 th male dummy passenger | (0 to 48 kmph) | (S5.1.1.(b)(1) or S5.1.1(a)) |
| ☐ | Belted 5 th female dummy driver | (0 to 48 kmph) | (S16.1(a)(1)) |
| ☐ | Belted 5 th female dummy passenger | (0 to 48 kmph) | (S16.1(a)(1)) |
| ☐ | Belted 5 th female dummy driver and passenger | (0 to 56 kmph) | (S16.1(a)(2)) |
| ☐ | Belted 50 th male dummy driver and passenger | (0 to 56 kmph) | (S5.1.1.(b)(2)) |
| ☐ | Unbelted 50 th male dummy driver and passenger | (0 to 48 kmph) | (S5.1.2(a) (1)) |
| ☐ | Unbelted 50 th male dummy driver | (32 to 40 kmph) | (S5.1.2.(a)(2) or S5.1.2(b)) |
| ☐ | Unbelted 50 th male dummy passenger | (32 to 40 kmph) | (S5.1.2.(a)(2) or S5.1.2(b)) |
| ☒ | Unbelted 5 th female dummy driver | (32 to 40 kmph) | (S16.1(b)) |
| ☒ | Unbelted 5 th female dummy passenger | (32 to 40 kmph) | (S16.1(b)) |
| ☐ | 40% Offset 0° Belted 5 th female dummy driver and passenger (0 to 40 kmph) (S18.1) Test Speed: | | |
- ☐ 29. FMVSS 204 Indicant Test
- ☒ 30. FMVSS 212 Test
- ☒ 31. FMVSS 219 Indicant Test
- ☒ 32. FMVSS 301 Frontal Test
- ☒ 33. FMVSS 305 Indicant Test

DATA SHEET 2
REPORT OF VEHICLE CONDITION

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance

NHTSA No.: C20145200
Test Dates: 5/12/14 – 6/23/14

CONTRACT NO.: DTNH22-13-D-00313

Date: 6/30/2014

FROM (Lab and rep name): MGA Research Corporation

TO: NHTSA, OVSC, NVS-220

PURPOSE: () Initial Receipt (X) Received via Transfer (X) Present vehicle condition

MODEL YEAR/MAKE/MODEL/BODY STYLE: 2014 Infiniti Q50

MANUFACTURE DATE: 05/13

NHTSA NO. C20145200

GVWR: 2340 kg (5159 lbs)

BODY COLOR: Bronze

GAWR (Fr): 1160 kg (2557 lbs)

VIN: JN1AV7AR0EM700342

GAWR (Rr): 1190 kg (2623 lbs)

ODOMETER READINGS: ARRIVAL (miles): 138

DATE: 3/31/14

COMPLETION (miles): 170

DATE: 6/23/14

PURCHASE PRICE: (\$) 43,987.00

DEALER'S NAME: Infiniti of Chantilly, 4145 Auto Park Cir, Chantilly, VA 20151

- A. All options listed on window sticker are present on the test vehicle:
X Yes No
- B. Tires and wheel rims are new and the same as listed: X Yes No
- C. There are no dents or other interior or exterior flaws: X Yes No
- D. The vehicle has been properly prepared and is in running condition:
X Yes No
- E. Keyless remote is available and working: X Yes No
- F. The glove box contains an owner's manual, warranty document, consumer information, and extra set of keys: X Yes No
- G. Proper fuel filler cap is supplied on the test vehicle: X Yes No
- H. Using permanent marker, identify vehicle with NHTSA number and FMVSS test type(s) on roof line above driver door or for school buses, place a placard with NHTSA number inside the windshield and to the exterior front and rear side of bus:
X Yes No
- I. Place vehicle in storage area: X Yes No
- J. Inspect the vehicle's interior and exterior, including all windows, seats, doors, etc. to confirm that each system is complete and functional per the manufacturer's specifications. Any damage, misadjustment, or other unusual condition that could influence the test program or test results shall be recorded. Report any abnormal condition to the NHTSA COTR before beginning any test:
X Vehicle OK Conditions reported below in comment section

Identify the letter above to which any of the following comments apply.

Comments: _____

REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

LIST OF FMVSS TESTS PERFORMED BY THIS LAB: FMVSS 208, 212, 219, 301, 305

VEHICLE: 2014 Infiniti Q50

NHTSA NO.: C20145200

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:

Right Tail Light, Trunk Lining, Cargo Insert, Sub Woofer, Rear Floor Mats

Explanation for equipment removal:

Components removed for instrumentation installation and to meet target weight.

Test Vehicle Condition:

25 mph frontal impact damage- front suspension & structure damaged, hood & front quarter panels damaged, radiator damaged, air bags & pretensioners deployed, Stoddard in fuel system

RECORDED BY: Jeff Lewandowski

DATE: 6/30/2014

APPROVED BY: David Winkelbauer

DATE: 6/30/2014

#####

RELEASE OF TEST VEHICLE

The vehicle described above is released from MGA to be delivered to:

Date:

Time:

Odometer:

Lab Rep's Signature:

Title:

Carrier/Customer Rep:

Date:

DATA SHEET 3

CERTIFICATION LABEL AND TIRE PLACARD INFORMATION

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

NHTSA No.: C20145200
 Test Date: 6/23/14

Certification Label (Part 567)	
Manufacturer:	Nissan Motor Co., LTD.
Date of Manufacture:	05/13
VIN:	JN1AV7AR0EM700342
Vehicle Certified As (Pass. Car/MPV/Truck/Bus):	Passenger Car
Front Axle GVWR:	1160 kg (2557 lbs)
Rear Axle GVWR:	1190 kg (2623 lbs)
Total GVWR:	2340 kg (5159 lbs)

Tire Placard for Motor Vehicles with GVWR of 10,000 lb or Less and Passenger Cars (571.110)	
Vehicle Capacity Weight:	408 kg (900 lbs)
Designated Seating Capacity Front:	2
Designated Seating Capacity Rear:	3
Total Designated Seating Capacity:	5
Recommended Cold Tire Inflation Pressure Front:	240 kpa (35 psi)
Recommended Cold Tire Inflation Pressure Rear:	240 kpa (35 psi)
Recommended Tire Size:	P225/55R17
Tire Size on Vehicle:	P225/55R17

Signature: 

Date: 6/23/14

DATA SHEET 4
REAR SEATING POSITION SEAT BELTS

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

	Yes	No
Do all rear seating positions have Type 2 seat belts?	X	

If NO, describe the seat belt installed, the seat location, and any other information about the seat that would explain why a Type 2 seat belt was not installed.

REMARKS:

Signature: 

Date: 5/12/14

DATA SHEET 5
AIR BAG LABELS (S4.5.1)

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

- ☒ 1. Air Bag Maintenance Label and Owner's Manual Instructions: (S4.5.1(a))
- ☒ 1.1 Does the manufacturer recommend periodic maintenance or replacement of the air bag?
- ☐ Yes (Go to 1.2)
- ☒ No (Go to 2)
- ☐ 1.2 Does the vehicle have a label specifying air bag maintenance or replacement?
- ☐ Yes – Pass
- ☐ No – Fail
- ☐ 1.3 Does the label contain one of the following?
- ☐ Yes – Pass
- ☐ No – Fail
- Check applicable schedule:
- ☐ Schedule on label specifies month and year (Record date_____)
- ☐ Schedule on label specifies vehicle mileage (Record mileage_____)
- ☐ Schedule on label specifies interval measured from date on certification label (Record interval_____)
- ☐ 1.4 Is the label permanently affixed within the passenger compartment such that it cannot be removed without destroying or defacing the label or vehicle part? (3/19/01 legal interpretation to Todd Mitchell)
- ☐ Yes – Pass
- ☐ No – Fail
- ☐ 1.5 Is the label lettered in English?
- ☐ Yes – Pass
- ☐ No – Fail
- ☐ 1.6 Is the label in block capitals and numerals?
- ☐ Yes – Pass
- ☐ No – Fail
- ☐ 1.7 Are the letters and numerals at least 3/32 inches high?
- ☐ Yes – Pass
- ☐ No – Fail
- ☐ 1.8 Does the owner's manual set forth the recommended schedule for maintenance or replacement?
- ☒ 2. Does the owner's manual: (S4.5.1(f))
- ☒ 2.1 Include a description of the vehicle's air bag system in an easily understandable format?
- ☒ Yes – Pass
- ☐ No – Fail
- ☒ 2.2 Include a statement that the vehicle is equipped with an air bag and a lap/shoulder belt at the front outboard seating position?
- ☒ Yes – Pass
- ☐ No – Fail
- ☒ 2.3 Include a statement that the air bag is a supplemental restraint at the front outboard seating position?
- ☒ Yes – Pass
- ☐ No – Fail

- ☒ 2.4 Emphasize that all occupants, including the driver, should always wear their seat belts whether or not an air bag is also provided at their seating positions to minimize the risk of severe injury or death in the event of a crash?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.5 Provide any necessary precautions regarding the proper positioning of occupants, including children, at seating positions equipped with air bags to ensure maximum safety protection for those occupants?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.6 Explain that no objects should be placed over or near the air bag on the steering wheel or on the instrument panel, because any such objects could cause harm if the vehicle is in a crash severe enough to cause the air bag to inflate?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7 Is the vehicle certified to meet the requirements of S14.5, S15, S17, S19, S21, S23, and S25? (Obtain answer to this question from the COTR) (S4.5.1(f)(2))
☒ Yes – (Go to 2.7.1)
☐ No – (Go to 3.)
- ☒ 2.7.1 Explain the proper functioning of the advanced air bag system? (S4.5.1(f)(2))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.2 Provide a summary of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.3 Present and explain the main components of the advanced passenger air bag system? (S4.5.1(f)(2)(i))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.4 Explain how the components function together as part of the advanced passenger air bag system? (S4.5.1(f)(2)(ii))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.5 Contain the basic requirements for proper operation, including an explanation of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2)(iii))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?
☒ Yes, continue with 2.7.6
☐ No, go to 2.7.7
- ☒ 2.7.6.1 Contain a complete description of the passenger air bag suppression system installed in the vehicle, including a discussion of any suppression zone? (S4.5.1(f)(2)(iv))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.6.2 Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.7 Explain the interaction of the advanced passenger air bag system with other vehicle components, such as seat belts, seats or other components? (S4.5.1(f)(2)(v))
☒ Yes – Pass
☐ No – Fail

- ☒ 2.7.8 Summarize the expected outcomes when child restraint systems, children and small teenagers or adults are both properly and improperly positioned in the passenger seat, including cautionary advice against improper placement of child restraint systems? (S4.5.1(f)(2)(vi))
- ☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.9 Provide information on how to contact the vehicle manufacturer concerning modifications for persons with disabilities that may affect the advanced air bag system? (S4.5.1(f)(2)(vii))
- ☒ Yes – Pass
☐ No – Fail
- ☒ 3. Sun Visor Air Bag Warning Label (S4.5.1(b)): Vehicles certified to meet the requirements of S19, S21 and S23. (S4.5.1(b)(3))
- ☒ 3.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(3)) (3/19/01 legal interpretation to Todd Mitchell)
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.2 Does the label conform in content to the label shown in Figure 11 at each front outboard seating position? (S4.5.1(b)(2)) **(Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement: “Never put a rear-facing child seat in the front.” (S4.5.1(b)(3)(v)))**



Figure 11. Sun Visor Label Visible when Visor is in Down Position.



Figure 6b. Sun Visor Label Visible When Visor is in Down Position.

- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

- ☒ 3.3 Is the label heading area yellow with the word "WARNING" and the alert symbol in black? (S4.5.1(b)(3)(i))
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.4 Is the message area white with black text? (S4.5.1(b)(3)(ii))
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.5 Is the message area at least 30 cm²? (S4.5.1(b)(3)(ii))
- The message area consists of the total label area minus the yellow heading area and the pictogram. The pictogram is enclosed on the left side and bottom by the edge of the label. The top edge of the pictogram area is defined by a horizontal line midway between the uppermost edge of the pictogram and the lowermost edge of the text. The right side of the pictogram is defined by a vertical line midway between the rightmost edge of the pictogram and the left most edge of the text, including any bullets. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)**
- Driver Side: Length 55 mm, Width 75 mm
 Passenger Side: Length 55 mm, Width 75 mm
 Driver actual message area 41.3 cm²
 Passenger actual message area 41.3 cm²
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.6 Is the pictogram black on a white background? (S4.5.1(b)(3)(iii))
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.7 Is the pictogram at least 30 mm in length? (S4.5.1(b)(3)(iii))
- Driver side: Length: 30 mm
 Passenger side: Length: 30 mm
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.8 Is the same side of the sun visor that contains the air bag warning label free of other information with the exception of the air bag maintenance label and/or the rollover-warning label? (S4.5.1(b)(5)(i))
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☒ 3.9 Is the sun visor free of other information about air bags or the need to wear seat belts with the exception of the air bag alert label and/or the rollover-warning label? (S4.5.1(b)(5)(ii))
- ☒ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☒ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

- ☒ 3.10 Does the driver side visor contain a rollover-warning label on the same side of the visor as the air bag warning label?
 ___ Yes (go to 3.10.1)
☒ No (go to 4., skipping 3.10.1 through 3.10.3)
- ☐ 3.10.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?
 ___ Yes (go to 3.10.2 and skip 3.10.3)
 ___ No (go to 3.10.3 and skip 3.10.2)
- ☐ 3.10.2 Is the shortest distance from the border of the rollover label to the border of the air bag warning label at least 1 cm? (575.105 (d)(1)(iv)(B))
 _____ actual distance
 ___ Yes-Pass ___ **No-FAIL**
- ☐ 3.10.3 Is the shortest distance from any of the lettering or graphics on the rollover-warning label to any of the lettering or graphics of the air bag warning label at least 3 cm? (575.105 (d)(1)(iv)(A))
 _____ actual distance
 ___ Yes-Pass ___ **No-FAIL**
- ☒ 4. Air Bag Alert Label (S4.5.1(c) (A "Rollover Warning Label" or "Rollover Alert Label" may be on the same side of the driver's sun visor as the "Air Bag Alert Label." 575.105(d))
- ☒ 4.1 Is the Sun Visor Warning Label visible when the sun visor is in the stowed position?
☒ **If yes for driver and passenger, go to 5.**
☒ Driver Side, Yes
☐ Driver Side, No
☒ Passenger Side, Yes
☐ Passenger Side, No
- ☐ 4.2 Is the air bag alert label permanently affixed (including permanent marking on the visor material or molding into the visor material) to the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(c)) (3/19/01 legal interpretation to Todd Mitchell)
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☐ 4.3 Is the air bag alert label visible when the visor is in the stowed position? (S4.5.1(c))
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

☐ 4.4 Does the label conform in content to the label shown in Figure 6C? (S4.5.1(c))

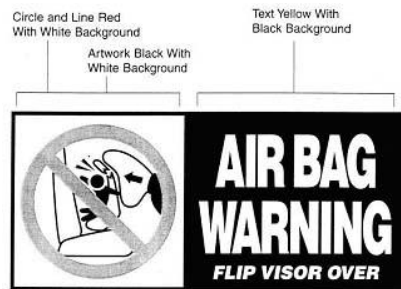


Figure 6c. Sun Visor Label Visible When Visor is in Up Position.

- ☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

☐ 4.5 Is the message area black with yellow text? (S4.5.1(c)(1))

- ☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

☐ 4.6 Is the message area at least 20 cm²? (S4.5.1(c)(1)) **The message area consists of the black part of the label.**

Driver Side: Length _____, Width _____

Passenger Side: Length _____, Width _____

Actual message area _____ cm²

- ☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

☐ 4.7 Is the pictogram black with a red circle and slash on a white background? (S4.5.1(c)(2))

- ☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

☐ 4.8 Is the pictogram at least 20 mm in diameter? (S4.5.1(c)(2))

Driver Side: Diameter _____ mm

Passenger Side: Diameter _____ mm

- ☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

☒ 5. Label on the Dashboard: Vehicles certified to meet the requirements of S19, S21 and S23?

☒ 5.1 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(3))

☐ Yes – Pass **The label was missing and it could not be determined when it was removed. Therefore it was not evaluated.**

☐ No – Fail

☐ 5.2 Is the label clearly visible from all front seating positions? (S4.5.1(e)(3))

- ☐ Yes – Pass
☐ No – Fail

- ☐ 5.3 Does the label conform in content to the label shown in Figure 12? (S4.5.1(e)(3)) **Vehicles without back seats may omit the statement: "The back seat is the safest place for children." Vehicles without back seats or too small to accommodate a rear-facing child restraint consistent with S4.5.4.1 as determined in DATA SHEET 7 may omit the statement "Never put a rear-facing child seat in the front." (S4.5.1(e)(3)(iii))**

☐ Yes – Pass
☐ No - Fail

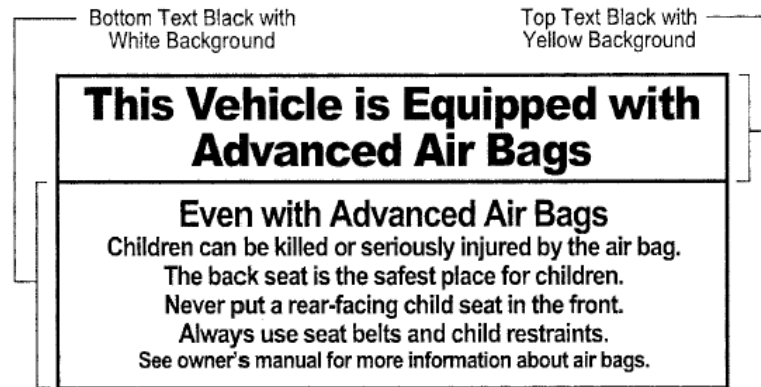


Figure 12. Removable Label on Dash.

- ☐ 5.4 Is the heading area yellow with black text? (S4.5.1(e)(3)(i))
☐ Yes – Pass
☐ No - Fail
- ☐ 5.5 Is the message white with black text? (S4.5.1(e)(3)(ii))
☐ Yes – Pass
☐ No - Fail
- ☐ 5.6 Is the message area at least 30 cm²? (S4.5.1(e)(3)(ii)) **The message area consists of the total label area minus the yellow heading area. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)**
Length ___ mm, Width ___ mm
Actual message area ___cm²
☐ Yes – Pass
☐ No - Fail

I certify that I have read and performed each instruction.

Signature: *Mathew Thompson*

Date: 5/12/14

DATA SHEET 6
FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

An occupant restraint system that deploys in the event of a crash shall have a monitoring system with a readiness indicator. A totally mechanical system is exempt from this requirement. (11/8/94 legal interpretation to Lawrence F. Hennegerger on behalf of Breed)

- ☒ 1. Is the system totally mechanical? **(If Yes, this Data Sheet is complete).**
☐ Yes
☒ No
- ☒ 2. Describe the location of the readiness indicator: *Left of Instrument Cluster*
- ☒ 3. Is the readiness indicator clearly visible to the driver?
☒ Yes – Pass
☐ No - Fail
- ☒ 4. Is a list of the elements in the occupant restraint system, being monitored by the readiness indicator, provided on a label or in the owner's manual?
☒ Yes – Pass
☐ No - Fail
- ☒ 5. Does the vehicle have an on-off switch for the passenger air bag?
☐ If Yes (go to 6)
☒ If No (this form is complete)
- ☐ 6. Is the air bag readiness indicator off when the passenger air bag switch is in the off position?
☐ Yes – Pass
☐ No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 5/12/14

DATA SHEET 7

PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

- ☒ 1. Is the vehicle equipped with an on-off switch that deactivates the air bag installed at the right front outboard seating position?
☐ Yes, go to 2
☒ No, this sheet is complete
- ☐ 2. Does the vehicle have any forward-facing rear designated seating positions? (S4.5.4.1(a))
☐ Yes, go to 3
☐ No, go to 4
- ☐ 3. Verification there is room for a child restraint in the rear seat behind the driver's seat. (S4.5.4.1(b))
- ☐ 3.1 Using all the controls that affect the fore-aft movement of the seat, move the seat to the rearmost position. Mark this position.
☐ N/A – the seat does not have fore-aft adjustment
- ☐ 3.2 Using all the controls that affect the fore-aft movement of the seat, move the seat to the foremost position. Mark this position.
☐ N/A – the seat does not have fore-aft adjustment
- ☐ 3.3 Move the seat to the middle of the foremost and rearmost positions. (S8.1.2)
☐ N/A – the seat does not have a fore-aft adjustment
- ☐ 3.4 If the driver's seat height is adjustable, use all the controls that affect height to put it in the lowest position while maintaining the middle fore-aft position. (S8.1.2)
☐ N/A – No seat height adjustment
- ☐ 3.5 Position the driver's seat adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
☐ N/A – No lumbar adjustment
- ☐ 3.6 The driver's seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1(b) and S8.1.3)
☐ N/A – No seat back angle adjustment
☐ Manufacturer's design driver's seat back angle _____
☐ Tested driver's seat back angle _____
- ☐ 3.7 Is the driver seat a bucket seat?
 ___ Yes, go to 3.7.1 and skip 3.7.2.
 ___ No, go to 3.7.2 and skip 3.7.1.
- ☐ 3.7.1 Bucket seats:
- ☐ 3.7.1.1 Locate and mark a vertical Plane B through the longitudinal centerline of the driver's seat cushion. The longitudinal centerline of a bucket seat cushion is determined at SgRP. (S16.3.1.10) (S4.5.4.1(b)(1))
- ☐ 3.7.1.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion behind the driver's seat. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the driver's seat.
 _____ mm distance
 _____ less than 720 mm – Pass
 _____ more than 720 mm – **FAIL**
 Go to 4
- ☐ 3.7.2 Bench seats (including split bench seats):
- ☐ 3.7.2.1 Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline. (S4.5.4.1(b)(2))

- ☐ 3.7.2.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the front seat.
 _____ mm distance
 _____ less than 720 mm – Pass
 _____ more than 720 mm - **FAIL**
 Go to 4
- ☐ 4. Does the device turn the air bag on and off using the vehicle's ignition key? (S4.5.4.2)
 ☐ Yes – Pass
 ☐ No – Fail
- ☐ 5. Is the on-off device separate from the ignition switch? (S4.5.4.2)
 ☐ Yes – Pass
 ☐ No – Fail
- ☐ 6. Is there a telltale light that comes on when the passenger air bag is turned off? (S4.5.4.2)
 ☐ Yes – Pass
 ☐ No – Fail
- ☐ 7. Telltale light (S4.5.4.3)
- ☐ 7.1 Is the light yellow? (S4.5.4.3(a))
 ☐ Yes – Pass
 ☐ No – Fail
- ☐ 7.2 Are the words "PASSENGER AIR BAG OFF" or "PASS AIR BAG OFF" (S4.5.4.3(b))
 ☐ 7.2.1 on the telltale?
 ☐ Yes – Pass, go to 7.3
 ☐ No – go to 7.2.2
- ☐ 7.2.2 within 25 mm of the telltale?
 ☐ Measurement from the edge of the telltale light (mm):
 ☐ Yes – Pass
 ☐ No – Fail
- ☐ 7.3 Does the telltale remain illuminated while the air bag is turned off? (S4.5.4.3c)
 (Leave the air bag off for 5 minutes.)
 ☐ Yes – Pass
 ☐ No – Fail
- ☐ 7.4 Is the telltale illuminated while the air bag is turned on? (S4.5.4.3(d))
 ☐ Yes – Fail
 ☐ No – Pass
- ☐ 7.5 Is the telltale combined with the air bag readiness indicator? (S4.5.4.3(e))
 ☐ Yes – Fail
 ☐ No – Pass
- ☐ 8. Owner's Manual
- ☐ 8.1 Does the owner's manual contain complete instructions on the operation of the on-off switch? (S4.5.4.4(a))
 ☐ Yes – Pass
 ☐ No – Fail

- ☐ 8.2 Does the owner's manual contain a statement that the on-off switch should only be used when a member of one of the following risk groups is occupying the right front passenger seating position? (S4.5.4.4(b))
- Infants: there is no back seat
the rear seat is too small to accommodate a child restraint
there is a medical condition that must be monitored constantly
- Children aged 1 to 12: there is no back seat
space is not always available in the rear seat
there is a medical condition that must be monitored constantly
- Medical condition: medical risk causes special risk for passenger
greater risk for harm than with the air bag on
- ☐ Yes – Pass
☐ No – Fail
- ☐ 8.3 Does the owner's manual contain a warning about the safety consequences of using the on-off switch at other times?
- ☐ Yes – Pass
☐ No – Fail

REMARKS:

Signature: Matthew Thompson

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Front Passenger
------------------------------	------------------------

- | | | |
|-------------------------------------|-----|---|
| ☐ | | N/A – No retractor is at this position |
| ☐ | | N/A – The retractor is an automatic locking retractor ONLY |
| ☒ | 1. | Record test fore-aft seat position: REAR
(S7.1.1.5(c)(1)) (Any position is acceptable) |
| ☒ | 2. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 3. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 4. | Place any adjustable seat belt anchorage in the lowest adjustment position. |
| | | ☐ N/A The anchorage is not adjustable. |
| ☒ | 5. | Buckle the seat belt. (S7.1.1.5(c)(1)) |
| ☒ | 6. | Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2)) |
| ☒ | 7. | Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2)) |
| ☒ | 8. | Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing? |
| | | ☒ Yes (go to 8.1) |
| | | ☐ No (go to 9) |
| ☒ | 8.1 | Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 9. | Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1)) |

- ☒ 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
Measured distance between A and B (inches): 61 ½
- ☒ 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
Measured distance between A and B: 32 ½ inches
- ☒ 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
Measured distance between A and B: 33 ½ inches (S7.1.1.5(c)(6))
- ☒ 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.
- ☒ 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
Measured distance between A and B: 22 inches
- ☒ 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
Measured distance between A and B: 23 inches (S7.1.1.5(c)(6))
- ☒ 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))
14 – 13 = 33 ½ - 32 ½ = 1 inch;
18 – 17 = 23 - 22 = 1 inch
- ☒ Yes – Pass
☐ No – Fail

- ☒ 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both?
(S7.1.1.5(c)(8))
- ☒ 10-14 = $61 \frac{1}{2} - 33 \frac{1}{2} = 28$ inches;
☒ 10-18 = $61 \frac{1}{2} - 23 = 38 \frac{1}{2}$ inches
- ☒ Yes – Pass
☐ No – Fail

REMARKS:

Signature: *Matthew Thompson* Date: 5/12/14

I certify that I have read and performed each instruction.

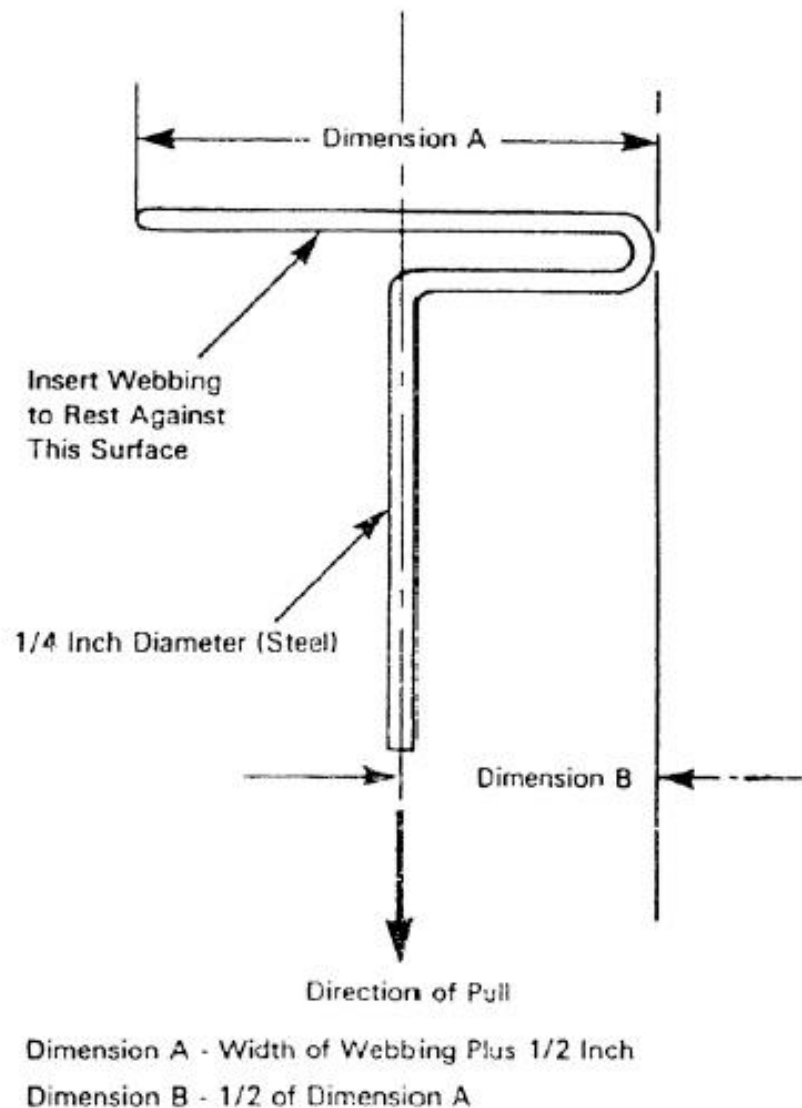


Figure 5. - Webbing Tension Pull Device

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Left Rear Passenger
------------------------------	---------------------

- | | | |
|-------------------------------------|-----|---|
| ☐ | | N/A – No retractor is at this position |
| ☐ | | N/A – The retractor is an automatic locking retractor ONLY |
| ☒ | 1. | Record test fore-aft seat position: FIXED
(S7.1.1.5(c)(1)) (Any position is acceptable) |
| ☒ | 2. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 3. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 4. | Place any adjustable seat belt anchorage in the lowest adjustment position. |
| | | ☒ N/A The anchorage is not adjustable. |
| ☒ | 5. | Buckle the seat belt. (S7.1.1.5(c)(1)) |
| ☒ | 6. | Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2)) |
| ☒ | 7. | Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2)) |
| ☒ | 8. | Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing? |
| | | ☒ Yes (go to 8.1) |
| | | ☐ No (go to 9) |
| ☒ | 8.1 | Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 9. | Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1)) |

- ☒ 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
- ☒ Measured distance between A and B (inches): 65 ½
- ☒ 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
- ☒ Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
- ☒ Measured distance between A and B: 42 ¼ inches
- ☒ 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
- Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
- Measured distance between A and B: 43 ¼ inches (S7.1.1.5(c)(6))
- ☒ 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.
- ☒ 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
- Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
- Measured distance between A and B: 15 ¼ inches
- ☒ 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
- Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
- Measured distance between A and B: 16 ½ inches (S7.1.1.5(c)(6))
- ☒ 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))
- ☒ $14 - 13 = 43 \frac{1}{4} - 42 \frac{1}{4} = 1$ inch;
- ☒ $18 - 17 = 16 \frac{1}{2} - 15 \frac{1}{4} = 1 \frac{1}{4}$ inch
- ☒ Yes – Pass
- ☐ No – Fail

- ☒ 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both?
(S7.1.1.5(c)(8))
- ☒ 10-14 = $65 \frac{1}{2} - 43 \frac{1}{4} = 22 \frac{1}{4}$ inches;
☒ 10-18 = $65 \frac{1}{2} - 16 \frac{1}{2} = 49$ inches
- ☒ Yes – Pass
☐ No – Fail

REMARKS:

Signature: _____

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Center Rear Passenger
------------------------------	-----------------------

- | | | |
|-------------------------------------|-----|---|
| ☐ | | N/A – No retractor is at this position |
| ☐ | | N/A – The retractor is an automatic locking retractor ONLY |
| ☒ | 1. | Record test fore-aft seat position: FIXED
(S7.1.1.5(c)(1)) (Any position is acceptable) |
| ☒ | 2. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 3. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 4. | Place any adjustable seat belt anchorage in the lowest adjustment position. |
| | | ☒ N/A The anchorage is not adjustable. |
| ☒ | 5. | Buckle the seat belt. (S7.1.1.5(c)(1)) |
| ☒ | 6. | Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2)) |
| ☒ | 7. | Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2)) |
| ☒ | 8. | Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing? |
| | | ☒ Yes (go to 8.1) |
| | | ☐ No (go to 9) |
| ☒ | 8.1 | Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 9. | Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1)) |

- ☒ 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
Measured distance between A and B (inches): 78 ¾
- ☒ 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
Measured distance between A and B: 42 inches
- ☒ 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
Measured distance between A and B: 43 inches (S7.1.1.5(c)(6))
- ☒ 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.
- ☒ 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
Measured distance between A and B: 13 ½ inches
- ☒ 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
Measured distance between A and B: 14 ½ inches (S7.1.1.5(c)(6))
- ☒ 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))
14 – 13 = 43 – 42 = 1 inch;
18 – 17 = 14 ½ – 13 ½ = 1 inch
- ☒ Yes – Pass
☐ No – Fail

- ☒ 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both?
(S7.1.1.5(c)(8))
- ☒ $10-14 = 78 \frac{3}{4} - 43 = 35 \frac{3}{4}$ inches;
- ☒ $10-18 = 78 \frac{3}{4} - 14 \frac{1}{2} = 64 \frac{1}{4}$ inches
- ☒ Yes – Pass
- ☐ No – Fail

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Mat Thompson

NHTSA No.: C20145200
Test Date: 5/12/14

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Right Rear Passenger
------------------------------	----------------------

- | | | |
|-------------------------------------|-----|---|
| ☐ | | N/A – No retractor is at this position |
| ☐ | | N/A – The retractor is an automatic locking retractor ONLY |
| ☒ | 1. | Record test fore-aft seat position: FIXED
(S7.1.1.5(c)(1)) (Any position is acceptable) |
| ☒ | 2. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 3. | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 4. | Place any adjustable seat belt anchorage in the lowest adjustment position. |
| | | ☒ N/A The anchorage is not adjustable. |
| ☒ | 5. | Buckle the seat belt. (S7.1.1.5(c)(1)) |
| ☒ | 6. | Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2)) |
| ☒ | 7. | Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2)) |
| ☒ | 8. | Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing? |
| | | ☒ Yes (go to 8.1) |
| | | ☐ No (go to 9) |
| ☒ | 8.1 | Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b)) |
| | | ☒ Yes – Pass |
| | | ☐ No – Fail |
| ☒ | 9. | Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1)) |

- ☒ 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
Measured distance between A and B (inches): 68
- ☒ 11. Readjust the belt system so that the webbing between points A and B is at $\frac{1}{2}$ the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
Measured distance between A and B: 40 $\frac{1}{2}$ inches
- ☒ 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
Measured distance between A and B: 41 $\frac{1}{4}$ inches (S7.1.1.5(c)(6))
- ☒ 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.
- ☒ 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
Measured force application angle: 10° (spec. 5 - 15 degrees)
- ☒ 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
Measured distance between A and B: 16 $\frac{1}{4}$ inches
- ☒ 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
Measured distance between A and B: 16 $\frac{3}{4}$ inches (S7.1.1.5(c)(6))
- ☒ 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))
- ☒ 14 – 13 = 41 $\frac{1}{4}$ - 40 $\frac{1}{2}$ = $\frac{3}{4}$ inch;
☒ 18 – 17 = 16 $\frac{3}{4}$ - 16 $\frac{1}{4}$ = $\frac{1}{2}$ inch
- ☒ Yes – Pass
☐ No – Fail

- ☒ 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both?
(S7.1.1.5(c)(8))
- ☒ 10-14 = $68 - 41 \frac{1}{4} = 26 \frac{3}{4}$ inches;
- ☒ 10-18 = $68 - 16 \frac{3}{4} = 51 \frac{1}{4}$ inches
- ☒ Yes – Pass
- ☐ No – Fail

REMARKS:

Signature:  Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 9

FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

- ☒ 1. The occupant is in the driver's seat.
- ☒ 2. The seat belt is in the stowed position.
- ☒ 3. The key is in the "on" or "start" position.
- ☒ 4. The time duration of the audible signal beginning with key "on" or "start" is 6 seconds.
- ☒ 5. The occupant is in the driver's seat.
- ☒ 6. The seat belt is in the stowed position.
- ☒ 7. The key is in the "on" or "start" position.
- ☒ 8. The time duration of the warning light beginning with key "on" or "start" is Stays On seconds.
- ☒ 9. The occupant is in the driver's seat.
- ☒ 10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
- ☒ 11. The key is in the "on" or "start" position.
- ☒ 12. The time duration of the warning light beginning with key "on" or "start" is 0 seconds.
- ☒ 13. Complete the following table with the data from 4, 8, and 12 to determine which option is used.

		Warning light	Warning light specification	Audible signal	Audible signal specification*
S7.3 (a)(1)	Belt stowed & key on or start	Item 8: <u>Stays On</u>	60 seconds minimum	Item 4: <u>6</u>	4 to 8 seconds
S7.3 (a)(2)	Belt latched & key on or start	Item 12: <u>0</u>	4 to 8 seconds		
	Belt stowed & key on or start	Item 8: <u>Stays On</u>	4 to 8 seconds	Item 4: <u>6</u>	4 to 8 seconds

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.

A voluntary audible signal after the 4 to 8 second required signal may be provided. It must be differentiated from the required signal (5/25/2001 legal interpretation to Longacre and Associates).

- ☒ 14. The seat belt warning system meets the requirements of (manufacturers may comply with either section).
 - ☒ S7.3 (a)(1)
 - ☐ S7.3 (a)(2)
 - ☐ FAIL – Does NOT meet the requirements of either option.
- ☒ 15. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))
 - ☐ Fasten Seat Belts
 - ☐ Fasten Belts
 - ☒ Symbol 101 - 
 - ☐ FAIL – Does not use any of the above wording or symbol.

REMARKS:

I certify that I have read and performed each instruction.

Signature: Mat Thompson

Date: 5/12/14

DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Left Rear Passenger
------------------------------	---------------------

- ☒

1. Does the vehicle incorporate a webbing tension-relieving device?

☐ Yes (this form is complete)
☒ No (continue with this check sheet)
- ☒

2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)

☒ N/A – No lumbar adjustment
- ☒

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)

☒ N/A – No additional support adjustment
- ☒

4. Is the fore-aft position of the seat adjustable?

☒ No – go to 5
☐ Yes – go to 4.1
- ☐

4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.4 Move the seat to the mid position.
- ☐

4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
- ☒

5. Is the seat back angle adjustable?

☒ No- go to 6
☐ Yes- go to 5.1
- ☐

5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.

☐ N/A – No seat back angle adjustment
☐ Manufacturer's design seat back angle: _____
☐ Tested seat back angle: _____

- ☒ 6. Is the seat a bucket seat?
- ☐ Yes, go to 6.1 and skip 6.2
- ☒ No, go to 6.2 and skip 6.1
- ☐ 6.1 Bucket seats:
Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)
- ☒ 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):
- ☐ 6.2.1 Driver Seat
Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)
- ☐ 6.2.2 Front Outboard Passenger Seat
Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)
- ☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- ☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____
- ☒ 6.2.3 Rear designated seating positions
Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.
- ☒ 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**
- ☒ 8. Fasten the seat belt latch.
- ☒ 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.
- ☒ 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
- ☒ Contact Force (lb): **0.5**
- ☒ 0.0 to 0.7 pounds – Pass
- ☐ Greater than 0.7 pounds - FAIL

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Center Rear Passenger
------------------------------	-----------------------

- ☒

1. Does the vehicle incorporate a webbing tension-relieving device?

☐ Yes (this form is complete)
☒ No (continue with this check sheet)
- ☒

2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)

☒ N/A – No lumbar adjustment
- ☒

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)

☒ N/A – No additional support adjustment
- ☒

4. Is the fore-aft position of the seat adjustable?

☒ No – go to 5
☐ Yes – go to 4.1
- ☐

4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.4 Move the seat to the mid position.
- ☐

4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
- ☒

5. Is the seat back angle adjustable?

☒ No- go to 6
☐ Yes- go to 5.1
- ☐

5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.

☐ N/A – No seat back angle adjustment
☐ Manufacturer's design seat back angle: _____
☐ Tested seat back angle: _____

- ☒ 6. Is the seat a bucket seat?
- ☐ Yes, go to 6.1 and skip 6.2
- ☒ No, go to 6.2 and skip 6.1
- ☐ 6.1 Bucket seats:
Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)
- ☒ 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):
- ☐ 6.2.1 Driver Seat
Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)
- ☐ 6.2.2 Front Outboard Passenger Seat
Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)
- ☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- ☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____
- ☒ 6.2.3 Rear designated seating positions
Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.
- ☒ 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**
- ☒ 8. Fasten the seat belt latch.
- ☒ 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.
- ☒ 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
- ☒ Contact Force (lb): **0.4**
- ☒ 0.0 to 0.7 pounds – Pass
- ☐ Greater than 0.7 pounds - FAIL

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Right Rear Passenger
------------------------------	----------------------

- ☒

1. Does the vehicle incorporate a webbing tension-relieving device?

☐ Yes (this form is complete)
☒ No (continue with this check sheet)
- ☒

2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)

☒ N/A – No lumbar adjustment
- ☒

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)

☒ N/A – No additional support adjustment
- ☒

4. Is the fore-aft position of the seat adjustable?

☒ No – go to 5
☐ Yes – go to 4.1
- ☐

4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐

4.4 Move the seat to the mid position.
- ☐

4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
- ☒

5. Is the seat back angle adjustable?

☒ No- go to 6
☐ Yes- go to 5.1
- ☐

5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.

☐ N/A – No seat back angle adjustment
☐ Manufacturer's design seat back angle: _____
☐ Tested seat back angle: _____

- ☒ 6. Is the seat a bucket seat?
- ☐ Yes, go to 6.1 and skip 6.2
- ☒ No, go to 6.2 and skip 6.1
- ☐ 6.1 Bucket seats:
Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)
- ☒ 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):
- ☐ 6.2.1 Driver Seat
Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)
- ☐ 6.2.2 Front Outboard Passenger Seat
Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)
- ☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- ☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____
- ☒ 6.2.3 Rear designated seating positions
Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.
- ☒ 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**
- ☒ 8. Fasten the seat belt latch.
- ☒ 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.
- ☒ 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
- ☒ Contact Force (lb): **0.5**
- ☒ 0.0 to 0.7 pounds – Pass
- ☐ Greater than 0.7 pounds - FAIL

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test all front outboard seat belts **other than those in** walk-in van-type vehicles and those at front outboard designated seating positions in **passenger cars**. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Not Applicable For Any Position - Passenger Car
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- ☐ 1. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
 - ☐ N/A – No lumbar adjustment
- ☐ 2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
 - ☐ N/A – No additional support adjustment
- ☐ 3. Is the fore-aft position of the seat adjustable?
 - ☐ No – go to 4
 - ☐ Yes – go to 3.1
- ☐ 3.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐ 3.2 While maintaining the forward most position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
- ☐ 4. Is the seat back angle adjustable?
 - ☐ No- go to 5
 - ☐ Yes- go to 4.1
- ☐ 4.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a **50th percentile adult male** in the manner specified by the manufacturer.
 - ☐ N/A – No seat back angle adjustment
 - ☐ Manufacturer's design seat back angle: _____
 - ☐ Tested seat back angle: _____
- ☐ 5. Is the seat a bucket seat?
 - ☐ Yes, go to 5.1 and skip 5.2
 - ☐ No, go to 5.2 and skip 5.1
- ☐ 5.1 Bucket seats:

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)
- ☐ 5.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):
 - ☐ 5.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

☐ 5.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

☐ 6. Position the test dummy using the procedures in Appendix F. (Some modifications to the positioning procedure may need to be made because the seat is in the forward most position. Note on the Appendix F positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy). **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

☐ 7. Position the adjustable seat belt anchorage in the manufacturer's nominal design position for a 50th percentile adult male occupant.

☐ 8. Attach the inboard reach string to the base of the head following the instructions on Figure 3.

☐ 9. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.

☐ 10. Place the latch plate in the stowed position.

☐ 11. Extend the inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?

☐ Yes – Pass

☐ No

☐ 12. Extend the outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?

☐ Yes – Pass

☐ No

☐ 13. Is the latch plate within the inboard (item 11) or outboard (item 12) reach envelope?

☐ Yes – Pass

☐ No – Fail

☐ 14. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?

☐ Yes – Pass

☐ No – Fail

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

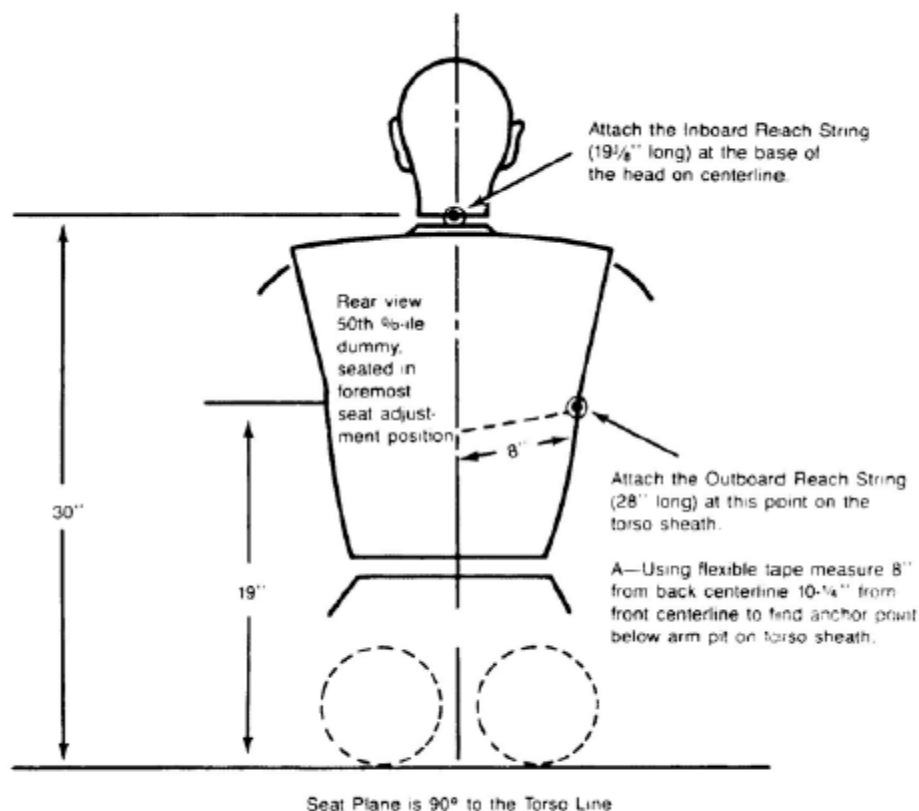


Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart E Test Device

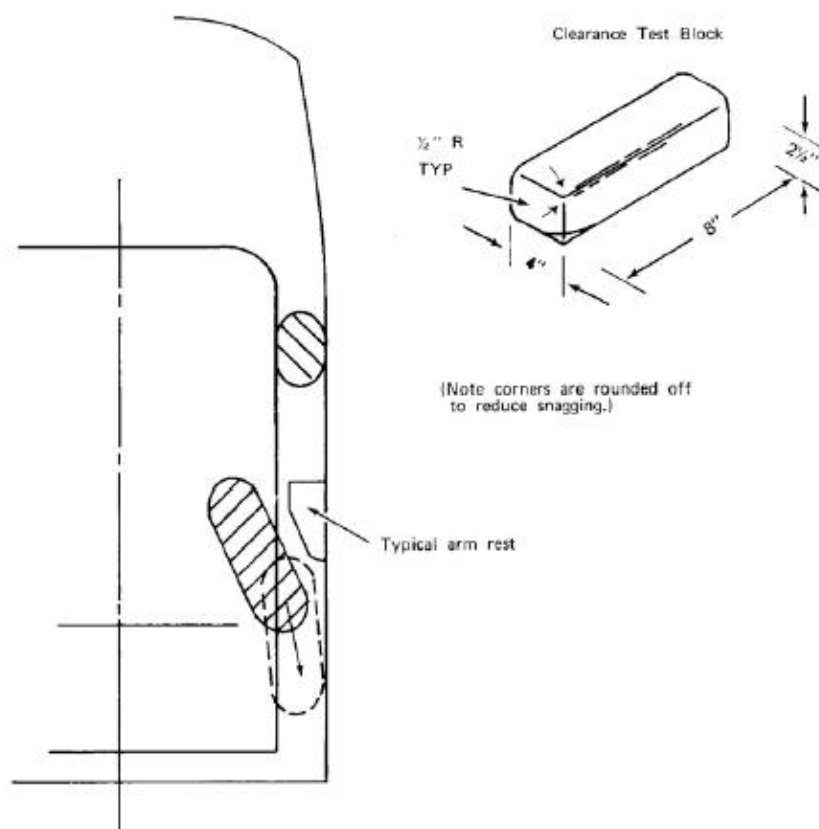


Figure 4—USE OF CLEARANCE TEST BLOCK TO DETERMINE HAND/ARM ACCESS

DATA SHEET 12

SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test all front outboard seat belts, except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Not Applicable For Any Position – Passenger Car
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- ☒ 1. Is the vehicle a passenger car or walk-in van-type vehicle?
 - ☒ Yes, this form is complete
 - ☐ No
- ☐ 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
 - ☐ N/A – No lumbar adjustment
- ☐ 3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
 - ☐ N/A – No additional support adjustment
- ☐ 4. Is the fore-aft position of the seat adjustable?
 - ☐ No – go to 5
 - ☐ Yes – go to 4.1
- ☐ 4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐ 4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐ 4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)
- ☐ 4.4 Move the seat to the mid position.
- ☐ 4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
- ☐ 5. Is the seat back angle adjustable?
 - ☐ No- go to 6
 - ☐ Yes- go to 5.1
- ☐ 5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a **50th percentile adult male** in the manner specified by the manufacturer.
 - ☐ N/A – No seat back angle adjustment
 - ☐ Manufacturer's design seat back angle: _____
 - ☐ Tested seat back angle: _____
- ☐ 6. Is the seat a bucket seat?
 - ☐ Yes, go to 6.1 and skip 6.2
 - ☐ No, go to 6.2 and skip 6.1

- ☐ 6.1 Bucket Seats:
Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)
- ☐ 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):
- ☐ 6.2. Driver Seat
- ☐ 1 Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)
- ☐ 6.2. Front Outboard Passenger Seat
- ☐ 2 Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)
- ☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- ☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____
- ☐ 7. Position the Part 572 Subpart E test dummy according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**
- ☐ 8. Fasten the seat belt around the dummy.
- ☐ 9. Remove all slack from the lap belt portion. (S10.9)
- ☐ N/A, the seat does not have a fore-aft adjustment
- ☐ 10. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)
- ☐ 11. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
- Pound load applied:**
- ☐ 12. Is the belt system equipped with a tension relieving device?
- ☐ Yes, continue
- ☐ No, go to 14
- ☐ 13. Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9).
- ☐ 14. Check the statement that applies to this test vehicle:
- ☐ 14.1 The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.
- ☐ Yes – Pass go to 16
- ☐ No – go to 14.2
- ☐ 14.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.
- ☐ Yes – Pass go to 15
- ☐ No – go to 14.3
- ☐ 14.3 Neither 14.1 nor 14.2 apply. - Fail
- ☐ 15. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?
- ☐ Yes – Pass
- ☐ No – Fail

- ☐ 16. If this test vehicle has an open body (without doors) and has a belt system with a tension relieving device, does the belt system fully retract when the tension-relieving device is deactivated?
- ☐ N/A – Not an open body vehicle
- ☐ Yes – Pass
- ☐ No – Fail

REMARKS:

Signature: Mathu Thuyam

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Left Rear Passenger

- ☒ 1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 2
- ☒ 2. Is the seat removable? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 3
- ☒ 3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 4
- ☒ 4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
☐ Yes, go to 5 ☒ No, this form is complete
- ☐ 5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
☐ Yes – Pass ☐ No – Fail
 Identify the part(s) on top or above the seat.
☐ Seat belt latch plate ☐ Buckle ☐ Seat belt webbing
- ☐ 6. Are the remaining two seat belt parts accessible under normal conditions?
☐ Yes – Pass ☐ No – Fail
- ☐ 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail ☐ N/A – Rear seat

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Center Rear Passenger

- ☒ 1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 2
- ☒ 2. Is the seat removable? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 3
- ☒ 3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 4
- ☒ 4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
☐ Yes, go to 5 ☒ No, this form is complete
- ☐ 5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
☐ Yes – Pass ☐ No – Fail
 Identify the part(s) on top or above the seat.
☐ Seat belt latch plate ☐ Buckle ☐ Seat belt webbing
- ☐ 6. Are the remaining two seat belt parts accessible under normal conditions?
☐ Yes – Pass ☐ No – Fail
- ☐ 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail ☐ N/A – Rear seat

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Mat Thompson

NHTSA No.: C20145200
 Test Date: 5/12/14

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Right Rear Passenger

- ☒ 1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 2
- ☒ 2. Is the seat removable? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 3
- ☒ 3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
☐ Yes, this form is complete ☒ No, go to 4
- ☒ 4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
☐ Yes, go to 5 ☒ No, this form is complete
- ☐ 5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
☐ Yes – Pass ☐ No – Fail
 Identify the part(s) on top or above the seat.
☐ Seat belt latch plate ☐ Buckle ☐ Seat belt webbing
- ☐ 6. Are the remaining two seat belt parts accessible under normal conditions?
☐ Yes – Pass ☐ No – Fail
- ☐ 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail
- ☐ 10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
☐ Yes – Pass ☐ No – Fail ☐ N/A – Rear seat

REMARKS:

Signature: 

Date: 5/12/14

I certify that I have read and performed each instruction.

DATA SHEET 16

AIR BAG SUPPRESSION TELLTALE (S19.2.2)

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Nicholas Abels

NHTSA No.: C20145200
Test Date: 6/2/14

- ☒ 1. Is the vehicle certified to any suppression performance standards of FMVSS 208?
☒ Yes - go to 2
☐ No - this form is complete
- ☒ 2. Does telltale emit yellow light when the air bag is suppressed? (S19.2.2 (a))
☒ Yes - Pass **NO - FAIL**
- ☒ 3. Are the words "PASSENGER AIR BAG OFF" or "PASS AIR BAG OFF" (S19.2.2 (b))
☒ 3.1 on the telltale? (S19.2.2 (b))
☒ Yes - Pass, go to 4
☐ No - go to 3.2
- ☐ 3.2 Within 25 mm of the telltale? (S19.2.2 (b)) ☐ mm from the edge of the telltale light
☐ Yes - Pass **NO - FAIL**
- ☒ 4. Is the telltale separate from the air bag readiness indicator? (S19.2.2(c))
☒ Yes - Pass **NO - FAIL**
- ☒ 5. Is the telltale within the interior of the vehicle? (S19.2.2 (d))
☒ Yes - Pass **NO - FAIL**
- ☒ 6. Is the telltale forward of and above the design H-point of both the driver's and the front outboard passenger's seat when the seats are in their forwardmost seating positions? (S19.2.2 (d))
☒ Yes - Pass **NO - FAIL**
- ☒ 7. Is the telltale away from surfaces that can be used for temporary or permanent storage of objects that could obscure the telltale from either the driver's or front outboard passenger's view? (S19.2.2 (d))
☒ Yes - Pass **NO - FAIL**
- ☒ 8. Is the telltale located so that it is not obscured from the driver or front outboard passenger by a rear-facing child restraint in Appendix A installed in the front outboard passenger seat? (S19.2.2 (d))
☒ Yes - Pass **NO - FAIL**
- ☒ 9. Is the telltale visible or recognizable during the night? (S19.2.2 (e))
☒ Yes - Pass **NO - FAIL**
- ☒ 10. Is the telltale visible or recognizable during the day? (S19.2.2 (e))
☒ Yes - Pass **NO - FAIL**
- ☒ 11. If there is a visibility adjustment, do all the adjustment levels make the telltale visible and recognizable? (S19.2.2 (g))
☒ N/A-No visibility adjustment
☐ Yes - Pass **NO - FAIL**
- ☒ 12. Does the telltale remain illuminated while the air bag is suppressed? (S19.2.2 (h)) (Leave the air bag suppressed for 5 minutes.)
☒ Yes - Pass **NO - FAIL**
- ☒ 13. Is the telltale off while the air bag is activated? (S19.2.2 (h)) (Leave the air bag activated for 5 minutes.)
☒ Yes - Pass **NO - FAIL**

Signature: 

Date: 6/2/14

I certify that I have read and performed each instruction.

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section B Rear Facing CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Arriva 22-049 (same as model 22-013)
DATE OF MANUFACTURE:	8-20-2008

Base: X On Off N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward 70*	127	Suppressed
	Middle	128	Suppressed
	Rearward	127	Suppressed
Unbelted Rear Facing	Forward 85*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 55*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section B Rear Facing CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Arriva 22-049 (same as model 22-013)
DATE OF MANUFACTURE:	8-20-2008

Base: __On X Off __N/A-Constraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward 85*	130	Suppressed**
	Middle	129	Suppressed**
	Rearward	127	Suppressed**
Unbelted Rear Facing	Forward 95*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 25*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN 506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section B Rear Facing CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Snugride
DATE OF MANUFACTURE:	5-24-2007

Base: ☒ On ☐ Off ☐ N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward	133	Suppressed
	Middle	131	Suppressed
	Rearward	127	Suppressed
Unbelted Rear Facing	Forward 15*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 45*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section B Rear Facing CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Snugride
DATE OF MANUFACTURE:	5-24-2007

Base: ☐ On ☒ Off ☐ N/A-Constraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward	129	Suppressed**
	Middle	130	Suppressed**
	Rearward	127	Suppressed**
Unbelted Rear Facing	Forward 45*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 40*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN 506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section B Rear Facing CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Peg Perego
CHILD RESTRAINT MODEL:	Viaggio
DATE OF MANUFACTURE:	8-27-2007

Base: X On Off N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward	127	Suppressed
	Middle	128	Suppressed
	Rearward	127	Suppressed
Unbelted Rear Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 30*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section B Rear Facing CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Peg Perego
CHILD RESTRAINT MODEL:	Viaggio
DATE OF MANUFACTURE:	8-27-2007

Base: __On X Off __N/A-Constraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward	128	Suppressed**
	Middle	130	Suppressed**
	Rearward	130	Suppressed**
Unbelted Rear Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN 506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Britax
CHILD RESTRAINT MODEL:	Roundabout E9L02
DATE OF MANUFACTURE:	7-2-2008

Base: __On __Off X N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback
 Tested seat back angle: 27.4° on Seatback
 Manufacturer's specified anchorage position: Upper-most as 0
 Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	130	Suppressed
	Middle	128	Suppressed
	Rearward	128	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Belted Rear Facing	Forward	130	Suppressed
	Middle	128	Suppressed
	Rearward	130	Suppressed
Unbelted Rear Facing	Forward 15*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN 506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	High Back Booster 22-209
DATE OF MANUFACTURE:	10-07-2008

Base: ☐ On ☐ Off ☒ N/A-Constraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	127	Suppressed**
	Middle	130	Suppressed
	Rearward	128	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Rear Facing	Forward 40*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN 506)

The Cosco High Back Booster 22-209 does not have a rear facing belt path.

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Evenflo
CHILD RESTRAINT MODEL:	Generations 352
DATE OF MANUFACTURE:	10-5-2006

Base: __On __Off X N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Manufacturer's specified anchorage position: Upper-most as 0

Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	132	Suppressed
	Middle	132	Suppressed
	Rearward	128	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Rear Facing	Forward 25*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN 506)

The Evenflo Generations 352 does not have a rear facing belt path.

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R) Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	ComfortSport
DATE OF MANUFACTURE:	6-15-2009

Base: __On __Off X N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback
 Tested seat back angle: 27.4° on Seatback
 Manufacturer's specified anchorage position: Upper-most as 0
 Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	128	Suppressed
	Middle	129	Suppressed
	Rearward	127	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Belted Rear Facing	Forward	130	Suppressed
	Middle	130	Suppressed
	Rearward	128	Suppressed
Unbelted Rear Facing	Forward 10*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN 506)

DATA SHEET 18 SUMMARY

Suppression Test Using Newborn Infant Dummy (Part 572, Subpart K) Section A Car Bed

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	Newborn Infant	DUMMY SERIAL NO.:	003

CAR BED NAME:	Angel Guard
CAR BED MODEL:	Angel Ride
DATE OF MANUFACTURE:	4-15-2008

Base: ☐ On ☐ Off ☒ N/A-Constraint does not have a removable base
(A car bed with a removable base shall be treated as two separate models, i.e. this form and test procedure will be completed with the base on and then repeated on a new form with the base off.

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Result
Belted	Forward	Suppressed**
	Middle	Suppressed**
	Rearward	Suppressed**

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN 506)

DATA SHEET 19 SUMMARY

Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P) Section D Forward Facing Belt Positioning Booster

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

BOOSTER SEAT NAME:	Cosco
BOOSTER SEAT MODEL:	Summit Deluxe High Back Booster 22-262
DATE OF MANUFACTURE:	8-9-2007

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing Without Harness	Forward 100*	12	Suppressed
	Middle	14	Suppressed
	Rearward	17	Suppressed
Belted Forward Facing Cinched With Harness	Forward 95*	133	Suppressed
	Middle	129	Suppressed
	Rearward	127	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

DATA SHEET 19 SUMMARY

Suppression Test Using 3 Year Old Dummy and Booster Seats (Part 572, Subpart P) Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

BOOSTER SEAT NAME:	Graco
BOOSTER SEAT MODEL:	Platinum Cargo
DATE OF MANUFACTURE:	6-24-2008

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing Without Harness	Forward 45*	12	Suppressed
	Middle	13	Suppressed
	Rearward	18	Suppressed
Belted Forward Facing Cinched With Harness	Forward 25*	132	Suppressed
	Middle	128	Suppressed
	Rearward	127	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy and Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Britax
CHILD RESTRAINT MODEL:	Roundabout E9L02
DATE OF MANUFACTURE:	7-2-2008

Manufacturer's design seat back angle:	<u>27.4° on Seatback</u>
Tested seat back angle:	<u>27.4° on Seatback</u>
Manufacturer's specified anchorage position:	<u>Upper-most as 0</u>
Tested anchorage position:	<u>Upper-most as 0</u>

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	127	Suppressed
	Middle	130	Suppressed
	Rearward	129	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy and Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	High Back Booster 22-209
DATE OF MANUFACTURE:	10-7-2008

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted (Without Harness)	Forward	15	Suppressed
	Middle	10	Suppressed
	Rearward	16	Suppressed
Belted (Cinched with Harness)	Forward	133	Suppressed
	Middle	127	Suppressed
	Rearward	127	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy and Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Evenflo
CHILD RESTRAINT MODEL:	Generations 352
DATE OF MANUFACTURE:	10-5-2006

Manufacturer's design seat back angle:	<u>27.4° on Seatback</u>
Tested seat back angle:	<u>27.4° on Seatback</u>
Manufacturer's specified anchorage position:	<u>Upper-most as 0</u>
Tested anchorage position:	<u>Upper-most as 0</u>

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted (Without Harness)	Forward	18	Suppressed
	Middle	16	Suppressed
	Rearward	15	Suppressed
Belted (Cinched with Harness)	Forward	131	Suppressed
	Middle	128	Suppressed
	Rearward	127	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy and Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	ComfortSport
DATE OF MANUFACTURE:	6-15-2009

Manufacturer's design seat back angle:	<u>27.4° on Seatback</u>
Tested seat back angle:	<u>27.4° on Seatback</u>
Manufacturer's specified anchorage position:	<u>Upper-most as 0</u>
Tested anchorage position:	<u>Upper-most as 0</u>

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward 25*	129	Suppressed
	Middle	129	Suppressed
	Rearward	133	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 21 SUMMARY

Suppression Test Using an Unbelted 3 Year Old Dummy (Part 572, Subpart P)
No CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

Test Summary

Position	Seat Slide	Seat Back Angle ***	Result
Position 1 Sitting on seat with back against seat back	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 2 Sitting on seat with back against reclined seat back	Forward	52.4° on Seatback	Suppressed
	Middle	52.4° on Seatback	Suppressed
	Rearward	52.4° on Seatback	Suppressed
Position 3 Sitting on seat with back not against seat back	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 4 Sitting on seat edge, spine vertical, hands at dummy's sides	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 5 Standing on seat, facing forward	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 6 Kneeling on seat, facing forward	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 7 Kneeling on seat, facing rearward	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 8 Lying on seat. (Three designated seating positions only)	Forward	N/A	N/A
	Middle	N/A	N/A
	Rearward	N/A	N/A

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

*** The manufacturer's design seat back angle was 27.4° on the seatback. When the vehicle passenger seat was reclined 25° the seat back angle on the seatback was 52.4°.

DATA SHEET 22 SUMMARY

Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	155

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Summit Deluxe High Back Booster 22-262
DATE OF MANUFACTURE:	8-9-2007

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	17	Suppressed
	Middle	13	Suppressed
	Rearward	10	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 22 SUMMARY

Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N) Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	155

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Platinum Cargo
DATE OF MANUFACTURE:	6-24-2008

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	10	Suppressed
	Middle	17	Suppressed
	Rearward	15	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 23 SUMMARY

Suppression Tests Using an Unbelted 6 Year Old Dummy (Part 572, Subpart N) (S24.2.1)
No CRS

NHTSA NO.:	C20145200	TEST DATE:	6/3/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	155

Test Summary

Position	Seat Slide	Seat Back Angle ***	Result
Position 1 Sitting on seat with back against seat back	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 2 Sitting on seat with back against reclined seat back	Forward	52.4° on Seatback	Suppressed
	Middle	52.4° on Seatback	Suppressed
	Rearward	52.4° on Seatback	Suppressed
Position 3 Sitting on seat edge, spine vertical, hands at dummy's sides	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed
Position 4 Sitting on seat with back against seat back then leaning on the door	Forward	27.4° on Seatback	Suppressed
	Middle	27.4° on Seatback	Suppressed
	Rearward	27.4° on Seatback	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

*** The manufacturer's design seat back angle was 27.4° on the seatback. When the vehicle passenger seat was reclined 25° the seat back angle on the seatback was 52.4°.

DATA SHEET 17 SUMMARY (INDICANT TEST)

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Summit Deluxe High Back Booster 22-262
DATE OF MANUFACTURE:	8-9-2007

Base: __On __Off X N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	133	Suppressed**
	Middle	130	Suppressed
	Rearward	127	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Rear Facing	Forward	N/A	Won't Fit
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Middle position. (Human Identification Code 037; 47.2 kg 148.6 cm)

The Cosco Summit Deluxe High Back Booster 22-262 Does Not Have A Rear Facing Belt Path.

DATA SHEET 17 SUMMARY (INDICANT TEST)

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Evenflo
CHILD RESTRAINT MODEL:	Tribute V 379
DATE OF MANUFACTURE:	6-20-2008

Base: __On __Off X N/A-Constraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	132	Suppressed**
	Middle	133	Suppressed
	Rearward	127	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Belted Rear Facing	Forward	130	Suppressed
	Middle	128	Suppressed
	Rearward	132	Suppressed
Unbelted Rear Facing	Forward 15*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Rearward position. (Human Identification Code 037; 47.2 kg 148.6 cm)

DATA SHEET 17 SUMMARY (INDICANT TEST)

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Toddler SafeSeat Step 2
DATE OF MANUFACTURE:	5-24-2007

Base: __On __Off X N/A-Constraint does not have a removable base

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	133	Suppressed
	Middle	131	Suppressed
	Rearward	127	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Rear Facing	Forward	N/A	Won't Fit
	Middle 200*	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Middle Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Rearward position. (Human Identification Code 037; 47.2 kg 148.6 cm)

The Graco Toddler SafeSeat Step 2 Does Not Have A Rear Facing Belt Path.

DATA SHEET 18 SUMMARY (INDICANT TEST)

Suppression Test Using Newborn Infant Dummy (Part 572, Subpart K) Section A Car Bed

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	Newborn Infant	DUMMY SERIAL NO.:	003

CAR BED NAME:	Angel Guard
CAR BED MODEL:	Angel Ride
DATE OF MANUFACTURE:	4-15-2008

Base: ☐ On ☐ Off ☒ N/A-Restraint does not have a removable base
(A car bed with a removable base shall be treated as two separate models, i.e. this form and test procedure will be completed with the base on and then repeated on a new form with the base off.

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Result
Belted	Forward	Suppressed**
	Middle	Suppressed**
	Rearward	Suppressed**

**Telltale light was off. A diagnostic tool supplied by Nissan was used to verify that the airbag was suppressed in these cases.

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Forward position. (Human Identification Code 037; 47.2 kg 148.6 cm)

DATA SHEET 19 SUMMARY (INDICANT TEST)

Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D Forward Facing Belt Positioning Booster

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

BOOSTER SEAT NAME:	Cosco
BOOSTER SEAT MODEL:	High Back Booster 22-209
DATE OF MANUFACTURE:	10-7-2008

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing Without Harness	Forward	12	Suppressed
	Middle	15	Suppressed
	Rearward	17	Suppressed
Belted Forward Facing Cinched With Harness	Forward	127	Suppressed
	Middle	130	Suppressed
	Rearward	127	Suppressed

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Forward position. (Human Identification Code 037; 47.2 kg 148.6 cm)

DATA SHEET 20 SUMMARY (INDICANT TEST)

Suppression Test Using 3 Year Old Dummy and Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Evenflo
CHILD RESTRAINT MODEL:	Tribute V 379
DATE OF MANUFACTURE:	6-20-2008

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	129	Suppressed
	Middle	131	Suppressed
	Rearward	133	Suppressed

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Forward position. (Human Identification Code 037; 47.2 kg 148.6 cm)

DATA SHEET 20 SUMMARY (INDICANT TEST)

Suppression Test Using 3 Year Old Dummy and Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Toddler SafeSeat Step 2
DATE OF MANUFACTURE:	5-24-2007

Manufacturer's design seat back angle:	<u>27.4° on Seatback</u>
Tested seat back angle:	<u>27.4° on Seatback</u>
Manufacturer's specified anchorage position:	<u>Upper-most as 0</u>
Tested anchorage position:	<u>Upper-most as 0</u>

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	128	Suppressed
	Middle	130	Suppressed
	Rearward	127	Suppressed

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Middle position. (Human Identification Code 037; 47.2 kg 148.6 cm)

DATA SHEET 22 SUMMARY (INDICANT TEST)

Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20145200	TEST DATE:	6/4/14
LABORATORY:	MGA	TECHNICIAN(S):	NA
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	155

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	High Back Booster 22-209
DATE OF MANUFACTURE:	10-7-2008

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Manufacturer's specified anchorage position: Upper-most as 0
Tested anchorage position: Upper-most as 0

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	16	Suppressed
	Middle	18	Suppressed
	Rearward	10	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 mm = Full Forward; 260 mm = Full Rearward; 260 mm total Seat Slide)

Successful unbelted representative 5th percentile female reactivation was performed with the seat in the Middle position. (Human Identification Code 037; 47.2 kg 148.6 cm)

DATA SHEET 29 SUMMARY

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female
Dummy (Part 572, Subpart O) (S26) Position 1 - Chin On Module (S26.2)

NHTSA NO.:	C20145200	TEST DATE:	5/13/14
LABORATORY:	MGA	TECHNICIAN(S):	NA / MT
DUMMY TYPE:	5 th Percentile Female	DUMMY SERIAL NO.:	510

Manufacturer's design seat back angle: 27.4° on Seatback
Tested seat back angle: 27.4° on Seatback
Tested seat position: Full Aft

Tested steering wheel angle: 17.8°
Thorax cavity angle: 24.0°
Bottom of chin height: 0 mm - At Plane F Module Height

Air Bag Deployment Timing

Stage No.	Firing time (ms)	Recorded firing time (ms)
1	0.0	0.0
2	30.0	30.0

5th Percentile Female SN 510 Position 1 (Chin On Module) 5/13/14

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	52
Peak Nij (Nte)	1.0	0.3
Time (ms)	NA	94.0
Peak Nij (Ntf)	1.0	0.3
Time (ms)	NA	41.0
Peak Nij (Nce)	1.0	0.2
Time (ms)	NA	155.0
Peak Nij (Ncf)	1.0	0.1
Time (ms)	NA	18.5
Neck Tension	2070 N	838
Neck Compression	2520 N	185
Chest g	60 g	13
Chest Displacement	52 mm	11
Left Femur	6805 N	45
Right Femur	6805 N	63

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11 (d))
Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

A new air bag and the original equipment parts were used for this deployment.

DATA SHEET 30 SUMMARY

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 2 - Chin On Rim (S26.3)

NHTSA NO.:	C20145200	TEST DATE:	5/13/14
LABORATORY:	MGA	TECHNICIAN(S):	NA / MT
DUMMY TYPE:	5 th Percentile Female	DUMMY SERIAL NO.:	510

Manufacturer's design seat back angle: 27.4° on Seatback

Tested seat back angle: 27.4° on Seatback

Tested seat position: Full Aft

Tested steering wheel angle: 14.6° *

Thorax cavity angle: 20.6°

Chin Point height: 0 mm – At Steering Wheel Target

Note: The chin on rim steering wheel target is 10 mm below the highest point on the steering wheel

*The dummy contacted the windshield with the steering wheel at mid position. The steering controls were adjusted to lower the upper steering wheel rim the necessary amount to bring the Chin Point coincident with the upper steering wheel rim. The rear thorax cavity was adjusted along with the steering wheel angle.

Air Bag Deployment Timing

Stage No.	Firing time (ms)	Recorded firing time (ms)
1	0.0	0.0
2	30.0	30.0

5th Percentile Female SN 510 Position 2 (Chin On Rim) 5/13/14

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	6
Peak Nij (Nte)	1.0	0.3
Time (ms)	NA	17.9
Peak Nij (Ntf)	1.0	0.1
Time (ms)	NA	89.9
Peak Nij (Nce)	1.0	0.0
Time (ms)	NA	7.8
Peak Nij (Ncf)	1.0	0.1
Time (ms)	NA	95.0
Neck Tension	2070 N	585
Neck Compression	2520 N	121
Chest g	60 g	15
Chest Displacement	52 mm	15
Left Femur	6805 N	45
Right Femur	6805 N	30

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11 (d))
Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

A new air bag and the original equipment parts were used for this deployment.

DATA SHEET 32

VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male
PASSENGER DUMMY:	X		5 th female		50 th male

- | | | |
|---|-----|---|
| X | 1. | Fill the transmission with transmission fluid to the satisfactory range. |
| X | 2. | Drain fuel from vehicle. |
| X | 3. | Run the engine until fuel remaining in the fuel delivery system is used and the engine stops. |
| X | 4. | Record the useable fuel tank capacity supplied by the COTR. |
| X | | Useable Fuel Tank Capacity supplied by COTR: 67.4 liters (17.8 gallons) |
| X | 5. | Record the fuel tank capacity supplied in the owner's manual. |
| X | | Useable Fuel Tank Capacity in owner's manual: 67.4 liters (17.8 gallons) |
| X | 6. | Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," or gasoline, fill the fuel tank. |
| X | | Amount Added: 67.4 liters (17.8 gallons) |
| X | 7. | Fill the coolant system to capacity. |
| X | 8. | Fill the engine with motor oil to the Max. mark on the dip stick. |
| X | 9. | Fill the brake reservoir with brake fluid to its normal level. |
| X | 10. | Fill the windshield washer reservoir to capacity. |
| X | 11. | Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner's manual. |

Tire placard pressure:	RF:	35 psi	LF:	35 psi	RR:	35 psi	LR:	35 psi
Owner's manual pressure:	RF:	35 psi	LF:	35 psi	RR:	35 psi	LR:	35 psi
Actual inflated pressure:	RF:	35 psi	LF:	35 psi	RR:	35 psi	LR:	35 psi

- | | | |
|---|-----|--|
| X | 12. | Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight). |
|---|-----|--|

Right Front (kg):	508.0	Right Rear (kg):	416.0
Left Front (kg):	507.6	Left Rear (kg):	426.8
Total Front (kg):	1015.6	Total Rear (kg):	842.8
% Total Weight:	54.6	% Total Weight:	45.4
UVW = TOTAL FRONT PLUS TOTAL REAR (KG):			1858.4

- | | | |
|---|------|--|
| X | 13. | UVW Test Vehicle Attitude: (All dimensions in millimeters) |
| X | 13.1 | Mark a point on the vehicle above the center of each wheel. |
| X | 13.2 | Place the vehicle on a level surface. |
| X | 13.3 | Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements. |

RF:	710	LF:	710	RR:	703	LR:	694
-----	-----	-----	-----	-----	-----	-----	-----

X

14.

Calculate the Rated Cargo and Luggage Weight (RCLW): 68 kg

X

14.1

Does the vehicle have the vehicle capacity weight (VCW) on the certification label or tire placard?

X

X

Yes, go to 14.3

No, go to 14.2

14.2

VCW = Gross Vehicle Weight - UVW

VCW = _____ - _____ = _____

X

14.3

VCW = 408 kg (900 lbs)

X

14.4

Does the certification or tire placard contain the Designated Seating Capacity (DSC)?

X

Yes, go to 14.6

No, go to 14.5 and skip 14.6

14.5

DSC = Total number of seat belt assemblies = _____

X

14.6

DSC = 5

X

14.7

RCLW = VCW - (68 kg x DSC) = 408 kg - (68 kg x 5) = 68 kg

X

14.8

Is the vehicle certified as a truck, MPV or bus (see the certification label on the door jamb)?

Yes, if the calculated RCLW is greater than 136 kg, use 136 kg as the RCLW. (S8.1.1)

X

No, use the RCLW calculated in 14.7

X

15.

Fully Loaded Weight (100% fuel fill): 2024.4 kg

X

15.1

Place the appropriate test dummy in both front outboard seating positions.

Driver:

X

5th female

50th male

Passenger:

X

5th female

50th male

X

15.2

Load the vehicle with the RCLW from 14.7 or 14.8 whichever is applicable.

X

15.3

Place the RCLW in the cargo area. Center the load over the longitudinal centerline of the vehicle. (S8.1.1 (d))

X

15.4

Record the vehicle weight at each wheel to determine the Fully Loaded Weight.

Right Front (kg):	526.2	Right Rear (kg):	479.9
Left Front (kg):	527.5	Left Rear (kg):	490.8
Total Front (kg):	1053.7	Total Rear (kg):	970.7
% Total Weight:	52.0	% Total Weight:	48.0
% GVW	49.6	% GVW	50.6
(% GVW = Axle GVW divided by Vehicle GVW)			
Fully Loaded Weight = Total Front Plus Total Rear (kg):			2024.4

X

16.

Fully Loaded Test Vehicle Attitude: (All dimensions in millimeters)

X

16.1

Place the vehicle on a level surface.

X

16.2

Measure perpendicular to the level surface to the 4 points marked on the body (see 13.1 above) and record the measurements.

RF: 702 LF: 703 RR: 683 LR: 678

X

17.

Drain the fuel system.

- ☒ 18. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," fill the fuel tank to 92 - 94 percent of useable capacity.
- ☒ Fuel tank capacity x .94 = 67.4 liters (17.8 gallons) x .94 = 63.3 liters (16.7 gallons)
- ☒ Amount added: 62.6 liters (16.55 gallons) 93.0%
- ☒ 19. Crank the engine to fill the fuel delivery system with Stoddard solvent.
- ☒ 20. Calculate the test weight range.
- ☒ 20.1 Calculated Weight = UVW (see 12 above) + RCLW (see 14 above) + 2x(dummy weight)
- 2024.4 kg = 1858.4 kg + 68.0 kg + 98.0 kg
- ☒ 20.2 Test Weight Range = Calculated Weight (- 4.5 kg, - 9 kg.)
- Max. Test Weight = Calculated Test Weight - 4.5 kg = 2019.9 kg
- Min. Test Weight = Calculated Test Weight - 9 kg = 2015.4 kg
- ☒ 21. Remove the RCLW from the cargo area.
- ☒ 22. Drain transmission fluid, engine coolant, motor oil, and windshield washer fluid from the test vehicle so that Stoddard solvent leakage from the fuel system will be evident.
- ☒ 23. Vehicle Components Removed For Weight Reduction:
Right Tail Light, Trunk Lining, Cargo Insert, Sub Woofer, Rear Floor Mats
- ☒ 24. Secure the equipment and ballast in the load carrying area and distribute it, as nearly as possible, to obtain the proportion of axle weight indicated by the gross axle weight ratings and center it over the longitudinal centerline of the vehicle.
- ☒ 25. If necessary, add ballast to achieve the actual test weight.
- ☐ N/A
- ☒ Weight of Ballast: 40.8 kg
- ☒ 26. Ballast, including test equipment, must be contained so that it will not shift during the impact event or interfere with data collection or interfere with high-speed film recordings or affect the structural integrity of the vehicle or do anything else to affect test results. Care must be taken to assure that any attachment hardware added to the vehicle is not in the vicinity of the fuel tank or lines.
- ☒ 27. Record the vehicle weight at each wheel to determine the actual test weight.

Right Front (kg):	525.3	Right Rear (kg):	479.5
Left Front (kg):	529.8	Left Rear (kg):	483.1
Total Front (kg):	1055.1	Total Rear (kg):	962.6
% Total Weight:	52.3	% Total Weight:	47.7
% GVW	49.6	% GVW	50.6
(% GVW = Axle GVW divided by Vehicle GVW)			
TOTAL FRONT PLUS TOTAL REAR (kg):			2017.7

- ☒ 28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?
- ☒ Yes
- ☐ No, explain why not.
- ☒ 29. Test Weight Vehicle Attitude: (all dimensions in millimeters)
- ☒ 29.1 Place the vehicle on a level surface.
- ☒ 29.2 Measure perpendicular to the level surface to the 4 points marked on the body (see 13 above) and record the measurements.

RF:	702	LF:	703	RR:	690	LR:	685
-----	-----	-----	-----	-----	-----	-----	-----

- ☒ 30. Summary of test attitude
☒ 30.1 AS DELIVERED:

RF:	710	LF:	710	RR:	703	LR:	694
-----	-----	-----	-----	-----	-----	-----	-----

AS TESTED:

RF:	702	LF:	703	RR:	690	LR:	685
-----	-----	-----	-----	-----	-----	-----	-----

FULLY LOADED:

RF:	702	LF:	703	RR:	683	LR:	678
-----	-----	-----	-----	-----	-----	-----	-----

- ☒ 30.2 Is the "as tested" test attitude equal to or between the "fully loaded" and "as delivered" attitude?

- ☒ Yes
☐ No, explain why not.

REMARKS:

Signature:  Date: 6/23/14

I certify that I have read and performed each instruction.

DATA SHEET 33

VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

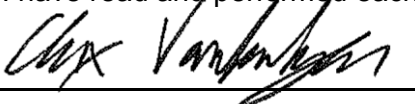
NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male
PASSENGER DUMMY:	X		5 th female		50 th male

- ☒ 1. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the left front outboard seating position intersects the left rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.
- ☒ 2. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the right front outboard seating position intersects the right rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.
- ☒ 3. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect at the top of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.
- ☒ 4. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect the bottom of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.
- ☒ 5. Install an accelerometer on the right front brake caliper to record x-direction accelerations. Record the location on the following chart.
- ☒ 6. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the top of the instrument panel. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.
- ☒ 7. Install an accelerometer on the left front brake caliper to record x-direction accelerations. Record the location on the following chart.
- ☒ 8. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the floor of the trunk. Install an accelerometer on the trunk floor at this intersection to record z-direction accelerations. Record the location on the following chart.

REMARKS:

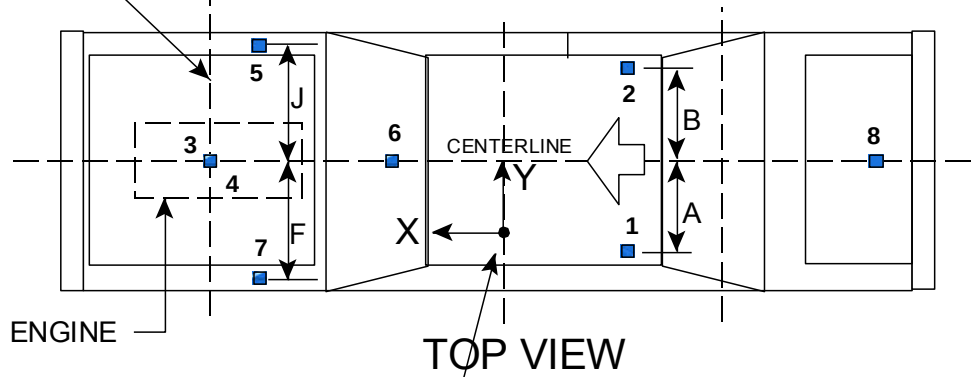
I certify that I have read and performed each instruction.

Signature: 

Date: 6/23/14

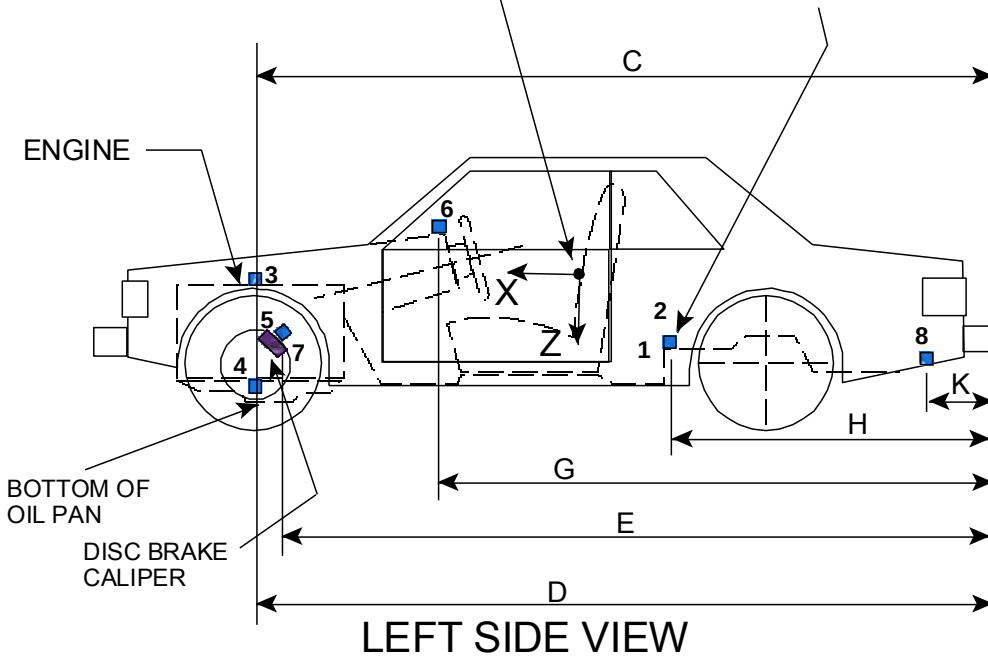
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

CENTERLINE OF
FRONT WHEELS



ACCELEROMETER
COORDINATE SYSTEM
(POSITIVE DIRECTION SHOWN)

REAR SEAT CUSHION
ASSY. FRONT ATTACHMENT
BRACKET SUPPORT



Dimensions Corresponding To The Letters "A" Through "K" (Excluding "I") Are Recorded In The Table On The Following Page.

Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.

VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

<u>DIMENSION</u>	<u>LENGTH (mm)</u>	
<u>PRETEST VALUES</u>		
<u>A</u> (LH Rear Seat Xmbr)	384	
<u>B</u> (RH Rear Seat Xmbr)	406	
<u>C</u> (Engine Top)	3972	
<u>D</u> (Engine Bottom)	4062	
<u>E</u> (Caliper)	Right Side: 4054	Left Side: 4058
<u>F</u> (Left Caliper)	690	
<u>G</u> (IP)	3070	
<u>H</u> (Seat)	1934	
<u>J</u> (Right Caliper)	690	
<u>K</u> (Trunk)	240	
<u>POST TEST VALUES</u>		
<u>A</u> (LH Rear Seat Xmbr)	384	
<u>B</u> (RH Rear Seat Xmbr)	406	
<u>C</u> (Engine Top)	3970	
<u>D</u> (Engine Bottom)	4057	
<u>E</u> (Caliper)	Right Side: 3967	Left Side: 4026
<u>F</u> (Left Caliper)	685	
<u>G</u> (IP)	3068	
<u>H</u> (Seat)	1934	
<u>J</u> (Right Caliper)	685	
<u>K</u> (Trunk)	240	

DATA SHEET 34

PHOTOGRAPHIC TARGETS

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Alex Vanderheyden

NHTSA No.: C20145200
Test Date: 6/23/14

IMPACT ANGLE:	0°					
BELTED DUMMIES (YES/NO):	NO					
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph		0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male	
PASSENGER DUMMY:	X		5 th female		50 th male	

- | | | |
|---|------|---|
| <div><div>X</div><div>X</div><div>X</div></div> | 1. | FMVSS 208 vehicle targeting requirements (See Figures 28A and 28B) |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.1 | Targets A1 and A2 are on flat rectangular panels. |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.2 | Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the front on the outboard sides of A1 and A2. The center of each circular target is 100 mm from the one next to it.
Distance between targets (mm): <u>100 mm</u> |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.3 | Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the back on the outboard sides of on A1 and A2. The center of each circular target is 100 mm from the one next to it.
Distance between targets (mm): <u>100 mm</u> |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.4 | The distance between the first circular target at the front of A1 and A2 and the last circular target at the back of A1 and A2 is at least 915 mm.
Distance between the first and last circular targets (mm): <u>915 mm</u> |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.5 | Firmly fix target A1 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy. |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.6 | Firmly fix target A2 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy. |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.7 | Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the driver door. The centers of each circular target are at least 610 mm apart.
Distance between targets (mm): <u>610 mm</u> |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.8 | Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart.
Distance between targets (mm): <u>611 mm</u> |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.9 | Place tape with squares having alternating colors on the top portion of the steering wheel. |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.10 | Chalk the bottom portion of the steering wheel. |
| <div><div>X</div><div>X</div><div>X</div></div> | 1.11 | Is this an offset test?
<div><div></div> Yes, continue with this section
<div>X</div> No, go to 2.</div> |
| <div><div></div><div></div><div></div></div> | 1.12 | Measure the width of the vehicle.
Vehicle width (mm): |
| <div><div></div><div></div><div></div></div> | 1.13 | Find the centerline of the vehicle. ($\frac{1}{2}$ of the vehicle width) |
| <div><div></div><div></div><div></div></div> | 1.14 | Find the line parallel to the centerline of the vehicle and 0.1 x vehicle width from the centerline of the vehicle. |
| <div><div></div><div></div><div></div></div> | 1.15 | Apply 25 mm wide tape with alternating black and yellow squares parallel to and on each side of the line found in 1.14. The edge of each tape shall be 50 mm from the line found in 1.14. The tape shall extend from the bottom of the bumper to the front edge of the windshield. (Figure 28D) |

- ☒ 2. **Barrier Targeting**
- ☒ 2.1 Fix two stationary targets D1 and D2 to the barrier as shown in the Figure 28A. One target is in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy. The other is in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy.
- ☒ 2.2 Targets D1 and D2 are on a rectangular panel.
- ☒ 2.3 Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted on the sides of the rectangular panel away from the longitudinal centerline of the vehicle. The center of each circular target is 100 mm from the one next to it.
- ☒ Distance between circular targets on D1 (mm): 100 mm
- ☒ Distance between circular targets on D2 (mm): 100 mm
- ☒ 3. **FMVSS 208 Dummy Targeting Requirements**
- ☒ 3.1 Place a circular target with black and yellow quadrants on both sides of the driver dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).
- ☒ 3.2 Place a circular target with black and yellow quadrants on both sides of the passenger dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).
- ☒ 3.3 Place a circular target with black and yellow quadrants on the outboard shoulder of the driver dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.
- ☒ 3.4 Place a circular target with black and yellow quadrants on the outboard shoulder of the passenger dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.
- ☒ 4. **FMVSS 204 Targeting Requirements**
- ☒ 4.1 Is an FMVSS 204 indicant test ordered on the "COTR Vehicle Work Order?"
- ☐ Yes, continue with this form.
- ☒ No, this form is complete.
- ☐ 4.2 Resection panel (Figure 28C)
- ☐ 4.2.1 The panel deviates no more than 6 mm from perfect flatness when suspended vertically
- ☐ 4.2.2 The 8 targets on the panel are circular targets at least 90 mm in diameter and with black and yellow quadrants.
- ☐ 4.2.3 The center of each of the 4 outer targets are placed within 1 mm of the corners of a square measuring 914 mm on each side.
- ☐ 4.2.4 Locate another square with 228 mm sides and with the center of this square coincident with the center of the 914 mm square.
- ☐ 4.2.5 The center of the 4 inner targets are placed at the midpoints of each of the 228 mm sides.
- ☐ 4.3 Place a circular target at least 90 mm in diameter and with black and yellow quadrants on a material (cardboard, metal, etc.) that can be taped to the top of the steering column.
- ☐ 4.4 Tape the target from 4.3 to the top of the steering column in a manner that does not interfere with the movement of the steering column in a crash.

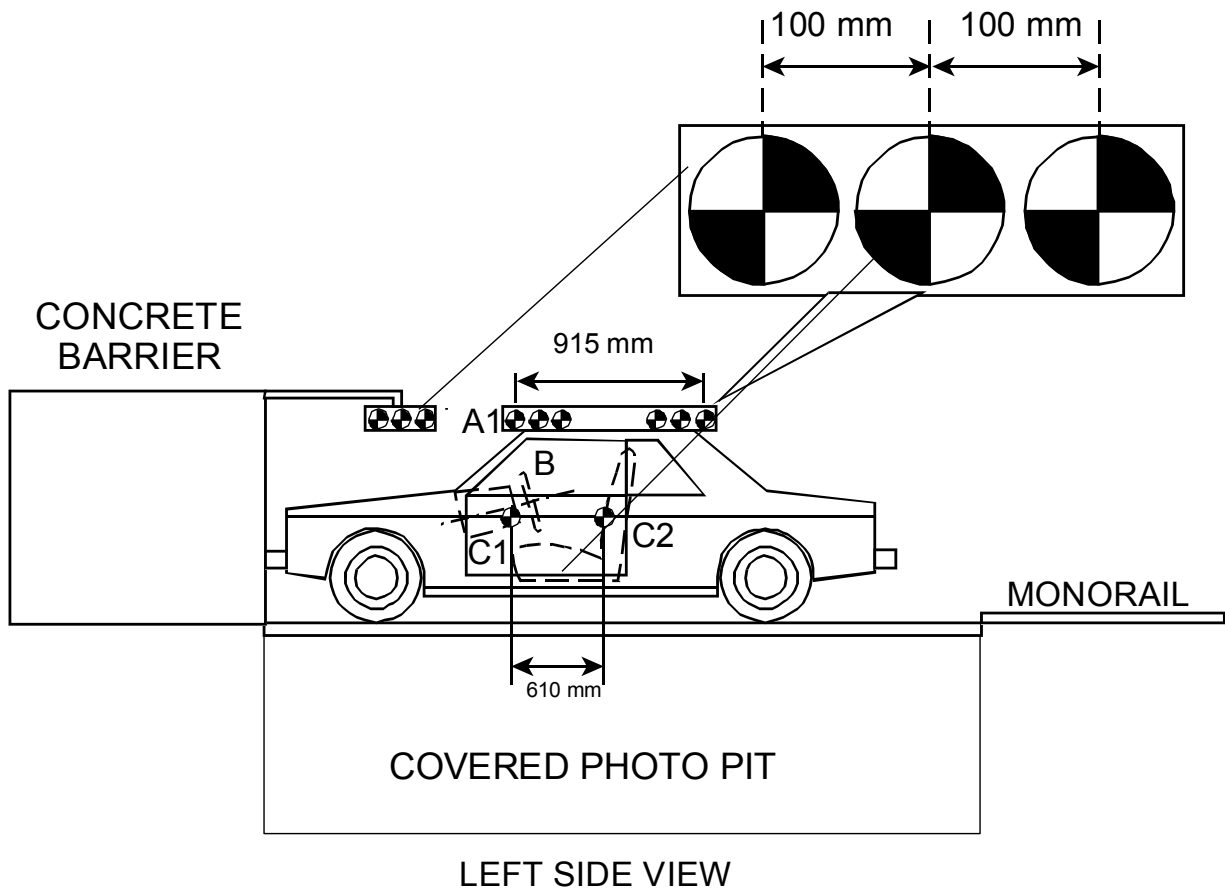
REMARKS:

Signature: 

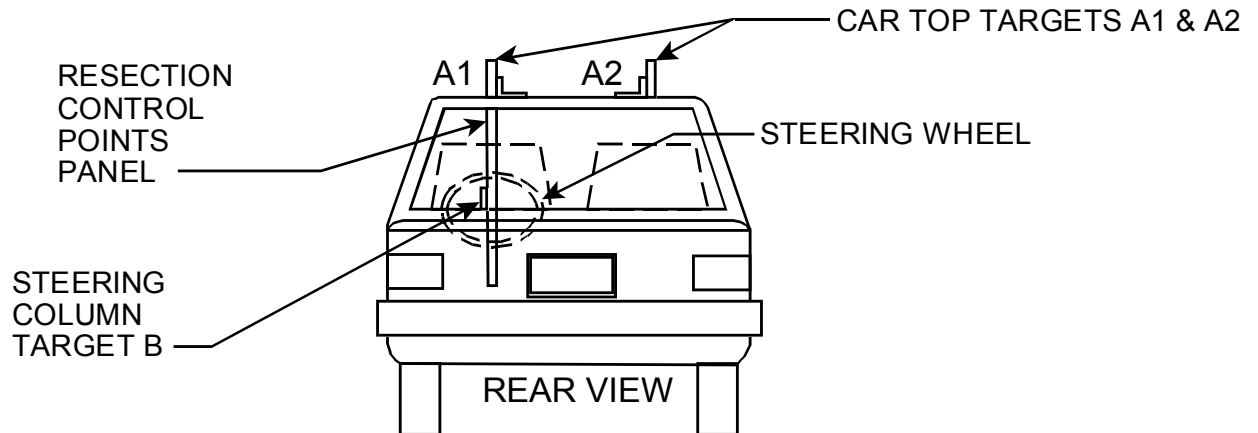
Date: 6/23/14

I certify that I have read and performed each instruction.

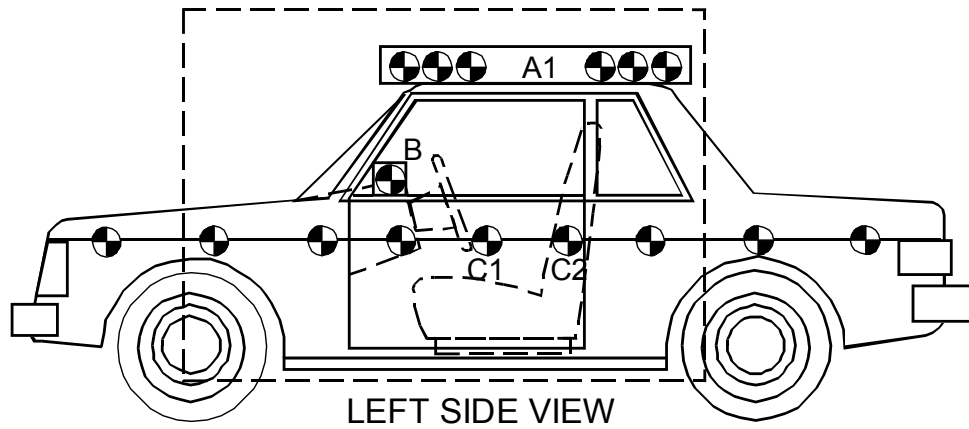
REFERENCE PHOTO TARGETS



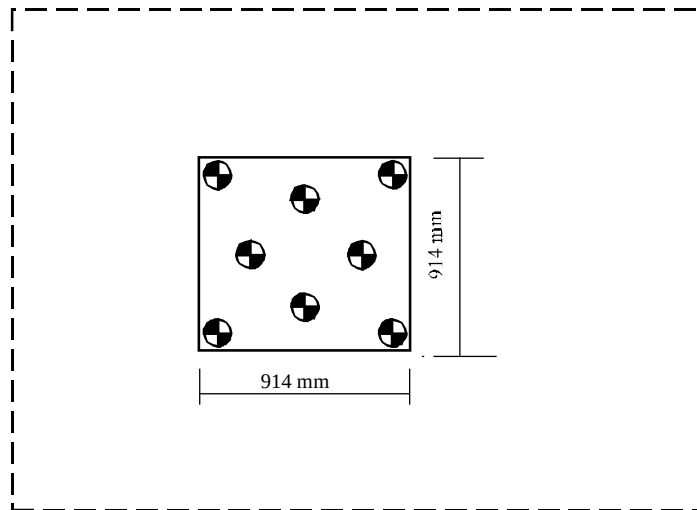
RESECTION PANEL TARGETING ALIGNMENT



TEST RUN STEERING COLUMN CAMERA VIEW OF TYPICAL TIME ZERO VEHICLE POSITION



PRE-RUN STEERING COLUMN HIGH SPEED CAMERA VIEW



LEFT SIDE VIEW

DATA SHEET 35
CAMERA LOCATIONS

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance

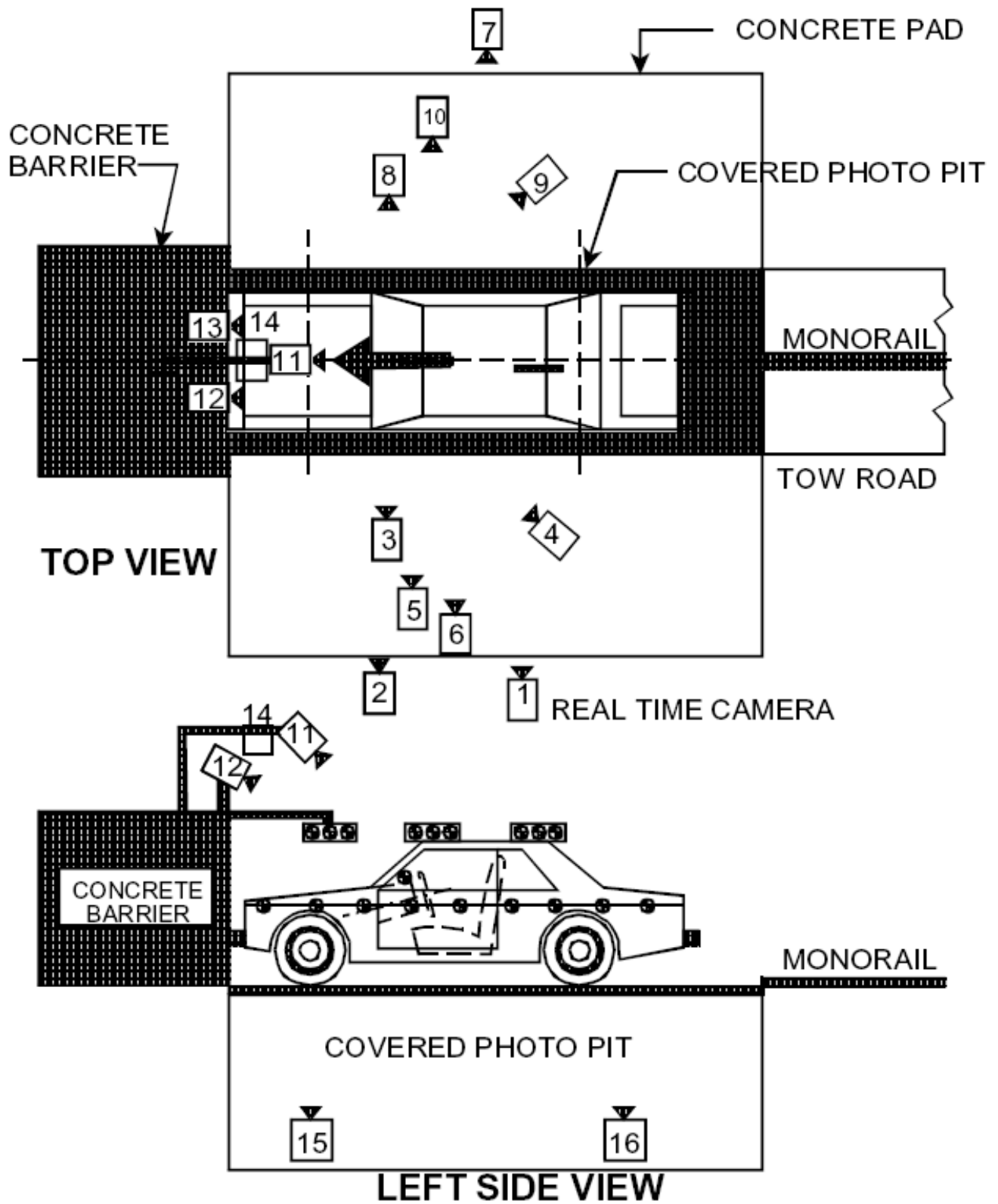
NHTSA No.: C20145200
Test Date: 6/23/14
Time: 12:08 am

CAMERA NO.	VIEW	CAMERA POSITIONS (mm) *			LENS (mm)	SPEED (fps)
		X	Y	Z		
1	Real Time Left Side View				13	24
2	Left Side View (Barrier face to front seat backs)	1080	-4800	1280	24	1000
3	Left Side View (Driver)	1650	-7220	1960	35	1000
4	Left Side View (B-post aimed toward center of steering wheel)	5650	-5130	2050	50	1000
5	Left Side View (Steering Column)	590	-4980	1190	24	1000
6	Left Side View (Steering Column)	570	-4950	790	24	1000
7	Right Side View (Overall)	2230	6530	1260	20	1000
8	Right Side View (Passenger)	1920	7040	1960	35	1000
9	Right Side View (Angle)	5760	4810	2050	50	1000
10	Right Side View (Front door)	1280	4890	1240	24	1000
11	Front View Windshield	-210	0	2810	20	1000
12	Front View Driver	190	-450	2030	8.5	1000
13	Front View Passenger	180	450	2030	8.5	1000
14	Overhead Barrier Impact View	2060	0	4910	14	1000
15	Pit Camera Engine View	1300	0	-3150	24	1000
16	Pit Camera Fuel Tank View	3340	0	-3150	24	1000

***COORDINATES:**

- +X - forward of impact plane
- +Y - right of monorail centerline
- +Z - above ground level

CAMERA POSITIONS FOR FMVSS 208



DATA SHEET 36

APPENDIX F

DUMMY POSITIONING PROCEDURES FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Jon Miller

NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male
PASSENGER DUMMY:	X		5 th female		50 th male

1. Seat Position

X 1.1 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1, S20.1.9.1, S20.4.1, S22.1.7.1)

 N/A – No lumbar adjustment

X 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)

X N/A – No additional support adjustment

X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)

X N/A – No adjustable leg support system

X 1.4 **Mark** a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. (S16.3.1.12)

X 1.5 Draw a line (seat cushion reference line) through the seat cushion reference point. (S16.3.1.13)

X 1.6 Use only the controls that primarily move the seat in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S22.1.7.3)

X 1.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S20.1.9.3)

X N/A – No independent fore-aft seat cushion adjustment

X 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1)

Maximum angle: 22.8° Nose Up

Minimum angle: 11.0° Nose Up

Mid-angle: 16.9° Nose Up

- ☒ 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.8. (S16.2.10.3.1)
☐ N/A – No seat height adjustment
- ☒ 1.10 Use only the controls that primarily move the seat in the fore-aft direction to verify the seat is in the rearmost position.
- ☒ 1.11 Use only the controls that primarily move the seat in the fore-aft direction to **mark** the fore-aft seat positions. **Mark** each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and **mark** each detent. For power seats, **mark** only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.
- ☒ 1.12 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.
- ☒ 1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)
☐ N/A – No seat height adjustment. Go to 1.18
- ☒ 1.14 Use only the controls that primarily move the seat and/or seat cushion in the fore-aft direction to place the seat in the mid-fore-aft position.
- ☒ 1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)
- ☒ 1.16 Use only the control that change the seat in the fore-aft direction to place the seat in the foremost position. (S16.2.10.3.2)
- ☒ 1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)
- ☒ 1.18. Is the seat a bucket seat?
☒ Yes, go to 1.19 and skip 1.20
☐ No, go to 1.20 and skip 1.19
- ☒ 1.19 Bucket seats:
Locate and **mark** for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

- ☐ 1.20 Bench seats (complete ONLY the one that is applicable to the seat being marked):
Locate and **mark** for future reference the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface.

2. Head Restraint Position

- ☐ N/A Vehicle contains automatic head restraints.
☐ N/A, there is no head restraint adjustment Go to 3
- ☒ 2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6, S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)
- ☒ 2.2 All adjustments of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible.
Mark the foremost position. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)
- ☒ 2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and **mark** a horizontal plane through the midpoint of this distance. (S16.3.4.3)
Vertical height of head restraint: 210 mm
Mid-point height: 105 mm
- ☒ 3. Is the **steering wheel** adjustable up and down and/or in and out?
☒ Yes – go to 3.1
☐ No – Go to 4
- ☒ 3.1. Find and **mark** for future reference each up and down position. Label three of the positions with the following: H for highest, M for mid-position (if there is no mid-position, label the next lowest adjustment position), and L for lowest.
☐ N/A – steering wheel is not adjustable up and down
- ☒ 3.2. Find and **mark** for future references each in and out position. Label three of the Positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the next rearmost adjustment position), and R for rearmost.
☐ N/A – steering wheel is not adjustable in and out.
- ☒ 3.3. Use the markings to position the steering controls in the mid-position or if applicable next lowest detent position. (S16.2.9)
- ☒ 4. Place the SCRP in the full rearward, mid-height position, and mid-seat cushion angle, determined in Item 1. (S16.3.2.1.1)
- ☒ 5. If the vehicle has an adjustable accelerator pedal, place it in the full forward position. (S16.3.2.2.1)
☒ N/A accelerator pedal not adjustable
- ☒ 6. Fully recline the seat back. (S16.3.2.1.2)
☐ N/A seat back not adjustable.
- ☒ 7. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.2.1.2)
- ☒ 8. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in Item 1.19 or 1.20. (S16.3.2.1.3 and S16.3.2.1.4)

- ☒ 9. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.2.1.5)
- ☒ 10. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)
- ☒ 11. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking as determined in Item 1.19 or 1.20. (S16.3.2.1.6)
Record Knee Separation: 165 mm
- ☒ 12. Push rearward on the dummy's knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.2.1.6)
☐ Pelvis contacted seat back.
☒ Calves contacted seat cushion.
- ☒ 13. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.2.1.7)
- ☒ 14. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.2.1.8)
- ☒ 15. Position the right foot until the foot is in line with a longitudinal vertical plane passing through the center of the accelerator pedal. Maintain the leg and thigh in a vertical plane. (S16.3.2.1.8)
- ☒ 16. Rotate the left leg and thigh laterally to equalize the distance between each knee and the longitudinal seat cushion marking as determined in Item 1.19 or 1.20. (S16.3.2.1.8)
- ☒ 17. Attempt to return the seat to the foremost fore-aft position, mid-height, and seat cushion mid-angle as determined in Item 1. The foot may contact and depress the accelerator and/or change the angle of the foot with respect to the leg. (S16.3.2.1.8)
☒ Foremost position achieved. Proceed to step 22.
☐ Foremost not achieved because of foot interference. Proceed to step 19.
☐ Foremost not achieved because of steering wheel contact.
- ☐ 18. If either of the dummy's legs contact the steering wheel, move the steering wheel up the minimum amount required to avoid contact. If the steering wheel is not adjustable separate the knees the minimum required to avoid contact. (S16.3.2.1.8)
☐ N/A- there was no leg contact
☐ Steering wheel repositioned
☐ Knees separated
- ☐ 19. If the left foot interferes with the clutch or brake pedals, rotate the left foot about the leg to provide clearance. If this is not sufficient, rotate the thigh outboard at the hip the minimum amount required for clearance. (S16.3.2.1.8)
☐ N/A, No foot interference with pedals.
☐ Foot adjusted to provide clearance.
☐ Foot and Thigh adjusted to provide clearance.

- ☐ 20. Continue to move the seat. Use seat controls to line up the seat markings determined during item 1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)
- ☐ Foremost, mid-height position and the seat cushion mid-angle reached
- ☐ Dummy Contact. Clearance set at maximum of 5 mm
- Measured Clearance: _____
- ☐ Dummy Contact. Seat set at nearest detent position.
- Seat position: _____ detent positions rearward of foremost
(foremost is position zero)
- ☐ 21. If the steering wheel was repositioned in step 18, return the steering wheel to the original position. If the steering wheel contacts the dummy before reaching the original position, position the wheel until a maximum clearance of 5 mm (.2 inches) is achieved, or the steering wheel is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)
- ☐ N/A Steering wheel was not repositioned.
- ☐ Original position achieved.
- ☐ Dummy Contact. Clearance set at maximum of 5 mm
- Measured Clearance: _____
- ☐ Dummy Contact. Steering wheel set at nearest detent position.
- Steering wheel position: _____ detent positions upward of original position.
(Original position is position zero)
- ☒ 22. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If the head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.2.1.9)
- ☒ Head Level Achieved. (Check all that apply)
- ☒ Head leveled using the adjustable seat back
- ☐ Head leveled using the neck bracket.
- Head Angle: 0.0 degrees
- ☐ Head Level NOT Achieved. (Check all that apply)
- ☐ Head adjusted using the adjustable seat back
- ☐ Head adjusted using the neck bracket.
- Head Angle: _____ degrees
- ☒ 23. Verify the pelvis is not interfering with the seat bight. (S16.3.2.1.9)
- ☒ No interference
- ☐ Pelvis moved forward the minimum amount so that it is not caught in the seat bight.
- ☒ 24. Verify the dummy abdomen is properly installed. (S16.3.2.1.9)
- ☒ Abdomen still seated properly into dummy
- ☐ Abdomen was adjusted because it was not seated properly into dummy
- ☒ 25. Head Angle
- ☒ N/A, neither the pelvis nor the abdomen were adjusted.
- ☒ 25.1 Head still level (Go to 26)

- ☐ 25.2 Head level adjusted
- ☐ Head Level Achieved. (Check all that apply)
- ☐ Head leveled using the adjustable seat back
- ☐ Head leveled using the neck bracket.
- Head Angle: _____ degrees
- ☐ Head Level NOT Achieved. (Check all that apply)
- ☐ Head level adjusted using the adjustable seat back
- ☐ Head level adjusted using the neck bracket.
- Head Angle: _____ degrees
- ☒ 26. If the dummy torso contacts the steering wheel while performing step 22, reposition the steering wheel in the following order to eliminate contact. (S16.3.2.1.9)
- ☒ N/A, No dummy torso contact with the steering wheel.
- ☐ 26.1 Adjust telescoping mechanism.
- ☐ N/A No telescoping adjustment.
- ☐ Adjustment performed (fill in appropriate change)
- Steering wheel moved _____ detent positions in the forward direction.
- Steering wheel moved _____ mm in the forward direction.
- ☐ 26.2 Adjust tilt mechanism.
- ☐ N/A No tilt adjustment.
- ☐ No adjustment performed.
- ☐ Adjustment performed. (circle one)
- Steering wheel moved _____ detent positions Upward/Downward.
- Steering wheel moved _____ degrees Upward/Downward
- ☐ 26.3 Adjust Seat in the aft direction.
- ☐ No Adjustment performed.
- ☐ Seat moved aft _____ mm from original position.
- ☐ Seat moved aft _____ detent positions from the original position.
- ☒ 27. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees $\pm$ 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level. (S16.3.2.1.11)
- ☒ Pelvic angle set to 20.0 degrees $\pm$ 2.5 degrees.
- ☐ Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
- ☒ Record the pelvic angle: 21.5 degrees
- ☒ 28. Check the dummy for contact with the interior after completing adjustments. (S16.3.2.1.12)
- ☒ No contact.
- ☐ Dummy in contact with interior.
- ☐ Seat moved aft _____ mm from the previous position.
- ☐ Seat moved aft _____ detent positions from the previous position.
- ☒ 29. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.2.1.12)
- ☒ N/A, Seat already at foremost position.
- ☐ Clearance unchanged. No adjustments required.
- ☐ Additional clearance available
- ☐ Seat moved Forward _____ mm from the previous position.
- ☐ Seat moved Forward _____ detent positions from the previous position.

- X 30. Driver's foot positioning, right foot. Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 31 otherwise, proceed to step 32. (S16.3.2.2.1)
- X 31. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 31.6 shall be completed in all cases. (S16.3.2.2.1 (a))
- X 31.1 With the rear of the heel contacting the floor pan, move the foot forward until pedal contact occurs or the foot is at the full forward position.
- X 31.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position.
- X 31.3 Extend the leg, allowing the heel to lose contact with the floor until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)
- X 31.4 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)
- 31.5 Align the centerline of the foot with the vertical-longitudinal plane passing through the center of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)
- X 31.6 Record foot position
- X Pedal Contact achieved. Contact occurred at step 31.4 .
- X Heel contacts floor pan
- Heel set mm from floor pan.
- Pedal Contact not achieved. Heel set mm from the floor pan.

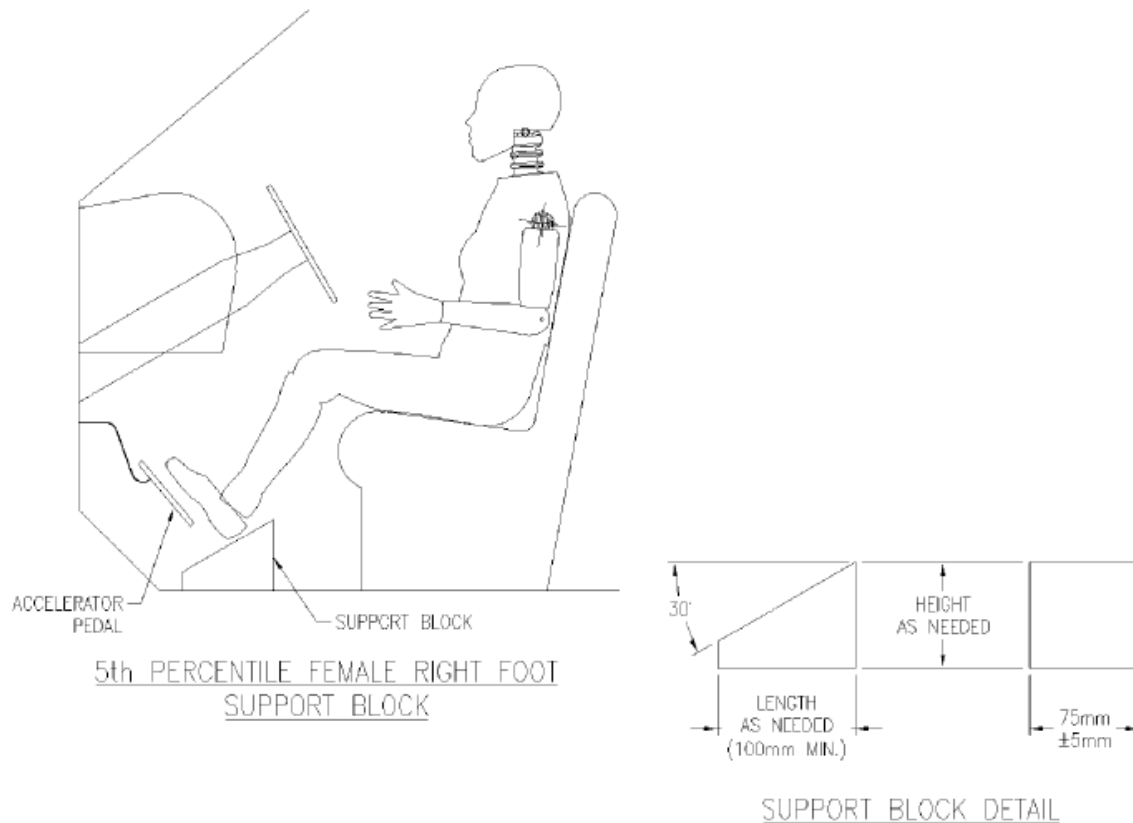


FIGURE G1

- ___32. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 30.5 shall be completed in all cases.
- ___32.1 Extend the leg until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1 (b) & S16.3.2.2.3)
- ___32.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1 (b) & S16.3.2.2.3)
 - ___N/A No pedal adjustment
- ___32.3 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.2 & S16.3.2.2.3)
- ___32.4 Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)
- ___32.5 Record foot position
 - ___Pedal Contact achieved. Contact occurred at step _____.
 - ___Heel set _____ mm from floor pan.
 - ___Pedal Contact not achieved. Heel set _____ mm from the floor pan.

X 33. Driver's foot positioning, left foot.

X 33.1 Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 33.2, otherwise position the leg as perpendicular to the thigh as possible with the foot parallel to the floor pan. (S16.2.2.6)

X 33.2 Place the foot on the toe board with the heel resting on the floor pan as close to the intersection of the floor pan and the toe board as possible. Adjust the angle of the foot if necessary to contact the toe board. If the foot will not contact the toe board, set the foot perpendicular to the leg, and set the heel on the floor pan as far forward as possible. Avoid contact with the brake pedal, clutch pedal, wheel well projection, and footrest. To avoid this contact use the following three manipulations in the order listed, with each subsequent option incorporating the previous, until contact is avoided: rotate the foot about the lower leg (abduction/adduction), plantar flex the foot, rotate the leg outboard about the hip. Movement should be the minimum amount necessary. If it is not possible to avoid all foot contact, give priority to avoiding brake or clutch pedal contact. (S16.2.2.4 & S16.2.2.5 & S16.2.2.7)

X No contact

 Foot rotated about the leg (abduction/adduction)

 Foot rotated about the leg, and foot plantar flexed

 Foot rotated about the leg, foot plantar flexed, and the leg rotated about the hip.

X 33.3 Record foot position.

 Heel does not contact floor pan.

 Heel on floor pan and foot on toe board.

X Heel on floor pan and foot not on toe board.

X 34. Driver arm/hand positioning.

X 34.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.2.3.1)

X 34.2 Place the palms of the dummy in contact with the outer part of the steering wheel rim at its horizontal centerline with the thumbs over the steering wheel rim. (S16.3.2.3.2)

 34.3 If it is not possible to position the thumbs inside the steering wheel rim at its horizontal centerline, then position them above and as close to the horizontal centerline of the steering wheel rim as possible. (S16.3.2.3.3)

X 34.4 Lightly tape the hands to the steering wheel rim so that if the hand of the test dummy is pushed upward by a force of not less than 9 N (2 lb) and not more than 22 N (5 lb), the tape releases the hand from the steering wheel rim. (S16.3.2.3.4)

X 35. Adjustable head restraints

 N/A, there is no head restraint adjustment

 35.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 36.

 35.2 Adjust each head restraint vertically so that the mid-horizontal plane determined in Item 2 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

☒ 35.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)

☐ N/A midpoint position attained in previous step

☒ Headrest set at nearest detent below the head CG

☒ 35.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

☒ 36. Driver and passenger manual belt adjustment (for tests conducted with a belted dummy). (S16.3.5)

☒ N/A Dummies are unbelted for this test.

☐ 36.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer's design position for a 5th percentile adult female. (S16.3.5.1) **This information will be supplied by the COTR.**

Manufacturer's specified position: _____

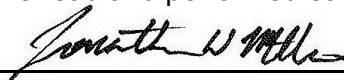
Actual Position: _____

☐ 36.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

☐ 36.3 Ensure that the dummy's head remains as level as possible. (S16.3.5.3)

☐ 36.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

I certify that I have read and performed each instruction.

Signature: 

Date: 6/23/14

DATA SHEET 36

APPENDIX F

DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Jon Miller

NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°					
BELTED DUMMIES (YES/NO):	NO					
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph		0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male	
PASSENGER DUMMY:	X		5 th female		50 th male	

 The passenger seat adjustments are controlled by the adjustments made to the driver's seat. Therefore, positioning of the passenger dummy is made simultaneously with the driver dummy. Adjustments made to the seat to position the driver will override any adjustments that would normally be made to position the passenger. (S16.2.10.3)

1. Seat Position

X 1.1 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1, S20.1.9.1, S20.4.1, S22.1.7.1)

X N/A – No lumbar adjustment

X 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)

X N/A – No additional support adjustment

X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)

X N/A – No adjustable leg support system

X 1.4 **Mark** a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. (S16.3.1.12)

X 1.5 Draw a line (seat cushion reference line) through the seat cushion reference point. (S16.3.1.13)

X 1.6 Use only the controls that primarily move the seat in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S22.1.7.3)

X 1.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S20.1.9.3)

X N/A – No independent fore-aft seat cushion adjustment

- ☒ 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1)
Maximum angle: 22.0° Nose Up
Minimum angle: 11.4° Nose Up
Mid-angle: 16.7° Nose Up
- ☒ 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.8. (S16.2.10.3.1)
☐ N/A – No seat height adjustment
- ☒ 1.10 Use only the controls that primarily move the seat in the fore-aft direction to verify the seat is in the rearmost position.
- ☒ 1.11 Use only the controls that primarily move the seat in the fore-aft direction to **mark** the fore-aft seat positions. **Mark** each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and **mark** each detent. For power seats, **mark** only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.
- ☒ 1.12 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.
- ☒ 1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)
☐ N/A – No seat height adjustment. Go to 1.18
- ☒ 1.14 Use only the controls that primarily move the seat and/or seat cushion in the fore-aft direction to place the seat in the mid-fore-aft position.
- ☒ 1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)
- ☒ 1.16 Use only the controls that change the seat in the fore-aft direction to place the seat in the foremost position. (S16.2.10.3.2)
- ☒ 1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)
- ☒ 1.18. Is the seat a bucket seat?
☒ Yes, go to 1.19 and skip 1.20
☐ No, go to 1.20 and skip 1.19

X 1.19 Bucket seats:

Locate and **mark** for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

 1.20 Bench seats:

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.4, S22.2.1.3, S24.2.3, S20.4.4, S22.2.2.1 (b), S22.2.2.3 (b), S22.2.2.4 (a), S22.2.2.5 (a), S22.2.2.6 (a), S22.2.2.7 (a), S24.2.3 (a))

Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) _____

2. Head Restraint Position

 N/A Vehicle contains automatic head restraints.

 N/A, there is no head restraint adjustment Go to 3

X 2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6, S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 2.2 All adjustments of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. **Mark** the foremost position. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and **mark** a horizontal plane through the midpoint of this distance. (S16.3.4.3)

Vertical height of head restraint: 210 mm

Mid-point height: 105 mm

X 3. Place the SCRIP in the full rearward, mid-height position, and mid-seat cushion angle. (S16.3.3.1.1)

X 4. Fully recline the seat back. (S16.3.3.1.2)

 N/A seat back not adjustable.

X 5. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.3.1.2)

X 6. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion marking that was determined in item 1.19 or 1.20. (S16.3.3.1.3 and S16.3.3.1.4)

X 7. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)

X 8. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)

- X 9. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches). Center the knee separation with respect to the longitudinal seat cushion marking that was determined in item 1.19 or 1.20. (S16.3.3.1.6)
Record Knee Separation: 165 mm
- X 10. Push rearward on the dummy's knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.3.1.6)
 Pelvis contacted seat back.
X Calves contacted seat cushion.
- X 11. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.3.1.7)
- X 12. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.3.1.8)
- X 13. Use seat controls to line up the seat markings determined during the completion of item 1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.3.1.8)
X Foremost, mid-height position and the seat cushion mid-angle reached
 Dummy Contact. Clearance set at maximum of 5 mm
Measured Clearance: _____
 Dummy Contact. Seat set at nearest detent position.
Seat position detent positions rearward of foremost
(foremost is position zero)
- X 14. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, adjust the head as closely as possible to the ± 0.5 degree range. (S16.3.3.1.9 and S16.3.3.1.10)
(Check All That Apply)
 Seat back not adjustable
 Seat back not independent of driver side seat back
X Head Level Achieved. (Check all that apply)
 Head leveled using the adjustable seat back
 Head leveled using the neck bracket.
Head Angle: 0.1 degrees
 Head Level NOT Achieved. (Check all that apply)
 Head adjusted using the adjustable seat back
 Head adjusted using the neck bracket.
Head Angle: _____ degrees
- X 15. Verify the pelvis is not interfering with the seat bight. (S16.3.3.1.9)
X No interference
 Pelvis moved forward the minimum amount so that it is not caught in the seat bight.
- X 16. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
X Abdomen still seated properly into dummy
 Abdomen was adjusted because it was not seated properly into dummy
- X 17. Head Angle
X N/A, neither the pelvis nor the abdomen were adjusted.

☐ 17.1 Head still level (Go to 18)

☐ 17.2 Head level adjusted

☐ Head Level Achieved. (Check all that apply)

☐ Head leveled using the adjustable seat back

☐ Head leveled using the neck bracket.

Head Angle: _____ degrees

☐ Head Level NOT Achieved. (Check all that apply)

☐ Head adjusted using the adjustable seat back

☐ Head adjusted using the neck bracket.

Head Angle: _____ degrees

☒ 18. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees $\pm$ 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level.

☒ Pelvic angle set to 20.0 degrees $\pm$ 2.5 degrees.

☐ Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.

☒ Record the pelvic angle: 20.5 degrees

☒ 19. Check the dummy for contact with the interior after completing adjustments.

☒ No Contact.

☐ Dummy in contact with interior.

☐ Seat moved aft _____ mm from the previous position.

☐ Seat moved aft _____ detent positions from the previous position.

☒ 20. Verify the transverse instrument platform of the dummy head is level $\pm$ 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)

☒ Head Level Achieved

Head Angle: 0.1 degrees

☐ Head Level NOT Achieved.

Head Angle: _____ degrees

☒ 21. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.3.1.12)

☐ N/A Bench Seat

☐ N/A Seat already at full forward position.

☒ Clearance unchanged. No adjustments required.

☐ Additional clearance available

☐ Seat moved Forward _____ mm from the previous position.

☐ Seat moved Forward _____ detent positions from the previous position.

☐ Seat moved Forward, Full Forward position reached.

☒ 22. Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)

☐ 22.1 Place feet flat on the toe board; OR (S16.3.3.2.1)

☒ 22.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR (S16.3.3.2.2)

☐ 22.3 If the heels do not touch the floor pan, set the legs as perpendicular to the thighs as possible and set the feet parallel to the floor pan. (S16.3.3.2.2)

☒ 23. Passenger arm/hand positioning. (S16.3.3.3)

☒ 23.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.3.3.1)

☒ 23.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)

☒ 23.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)

☒ 24. Adjustable head restraints (S16.3.4)

☐ N/A, there is no head restraint adjustment

☐ 24.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 25.

☐ 24.2 Adjust each head restraint vertically so that the horizontal plane determined in Item 2 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

☒ 24.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)

☐ N/A midpoint position attained in previous step

☒ Headrest set at nearest detent below the head CG

☐ 24.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

☒ 25. Manual belt adjustment (for tests conducted with a belted dummy) (S16.3.5)

☒ N/A, Unbelted test

☐ 25.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer's design position for a 5th percentile adult female. **This information will be supplied by the COTR.** (S16.3.5.1)

Manufacturer's specified position: _____

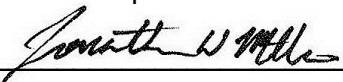
Actual Position: _____

☐ 25.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

☐ 25.3 Ensure that the dummy's head remains as level as possible. (S16.3.5.3)

☐ 25.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

I certify that I have read and performed each instruction.

Signature: 

Date: 6/23/14

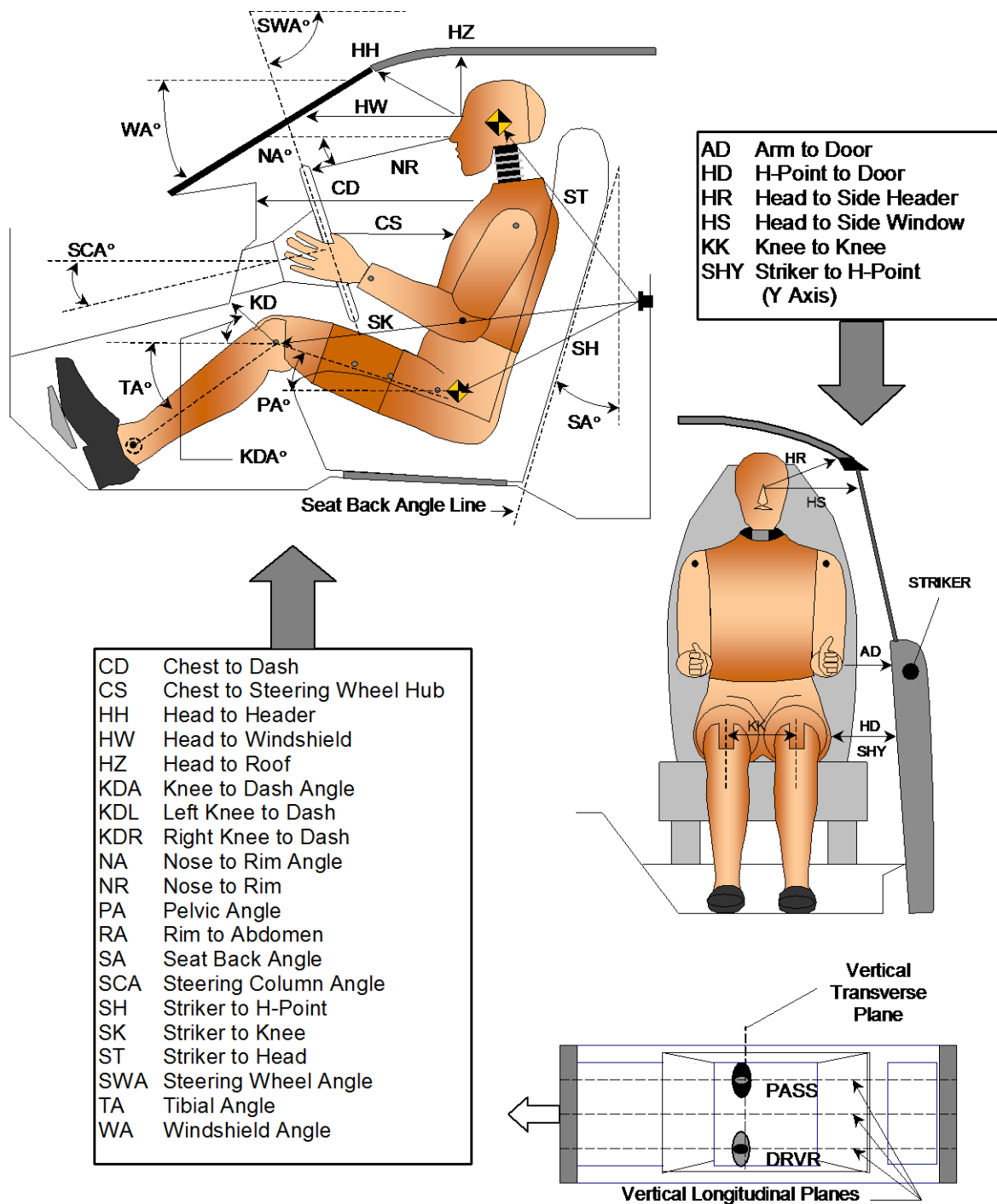
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DUMMY MEASUREMENTS

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Jon Miller

NHTSA No.: C20145200
 Test Date: 6/23/14

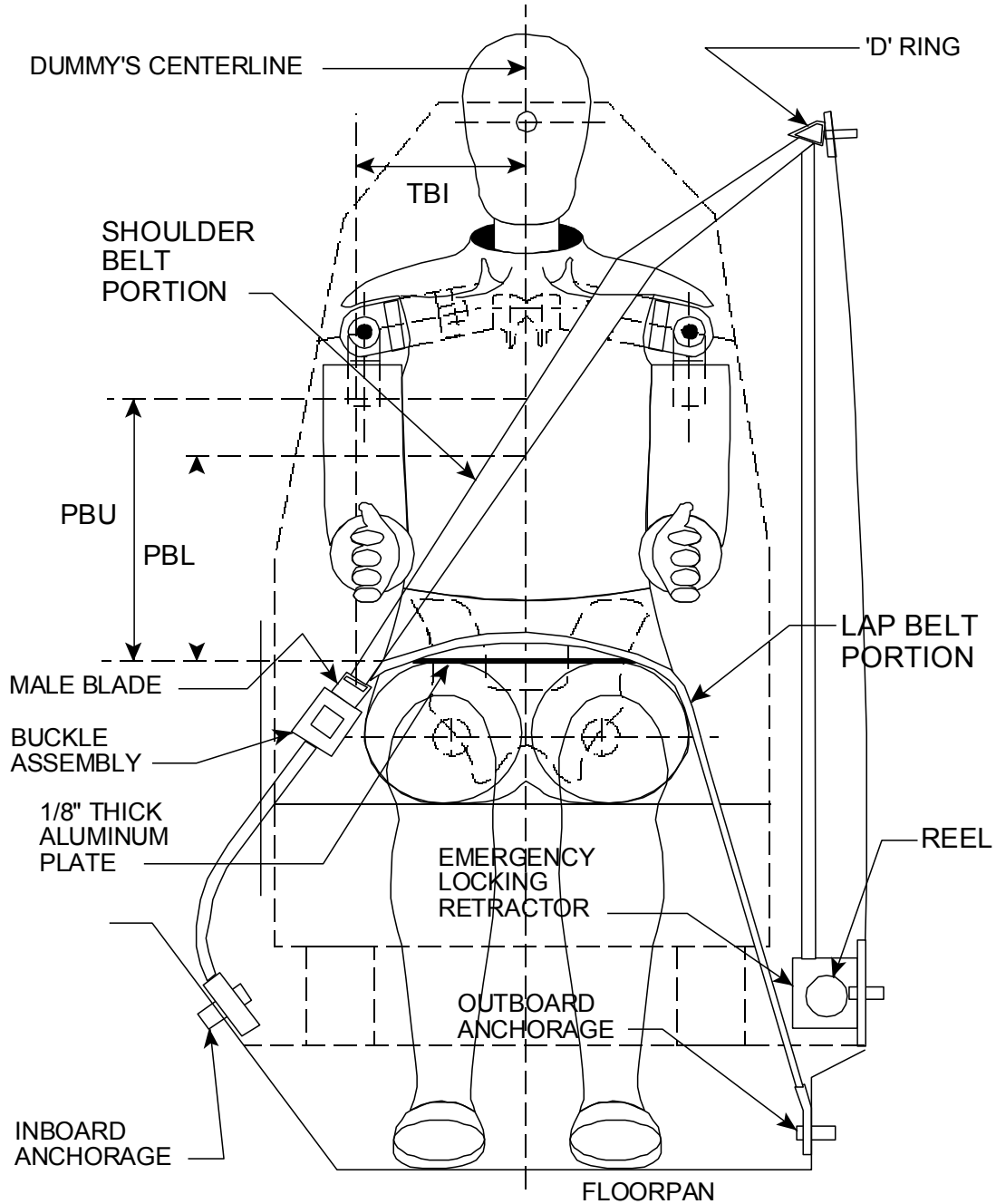
DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS



TEST DUMMY POSITION MEASUREMENTS

Code	Measurement Description	Driver SN 124		Passenger SN 125	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA	Windshield Angle		22.4		
SWA	Steering Wheel Angle		72.5		
SCA	Steering Column Angle		17.5		
SA	Seat Back Angle (On Headrest Post)		5.2		3.0
HZ	Head to Roof (Z)	145		120	
HH	Head to Header	207	50.7	185	49.8
HW	Head to Windshield	495	0.0	441	0.0
HR	Head to Side Header (Y)	211		197	
NR	Nose to Rim	231	9.5		
CD	Chest to Dash	434		400	
CS	Chest to Steering Hub	178	3.6		
RA	Rim to Abdomen	75	0.0		
KDL	Left Knee to Dash	105	36.0	83	
KDR	Right Knee to Dash	85		96	30.6
PA	Pelvic Angle		21.5		20.5
TA	Tibia Angle		47.5		54.5
KK	Knee to Knee (Y)	264		224	
SK	Striker to Knee	659	96.9	694	95.8
ST	Striker to Head	487	23.8	523	24.9
SH	Striker to H-Point	366	110.0	363	101.8
SHY	Striker to H-Point (Y)	312		320	
HS	Head to Side Window	321		324	
HD	H-Point to Door (Y)	166		165	
AD	Arm to Door (Y)	156		164	
AA	Ankle to Ankle	142		162	

SEAT BELT POSITIONING DATA



FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver	Passenger
PBU - Top surface of reference to belt upper edge	mm	N/A	N/A
PBL - Top surface of reference to belt lower edge	mm	N/A	N/A

DATA SHEET 38

CRASH TEST

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male
PASSENGER DUMMY:	X		5 th female		50 th male

- ☒ 1. Vehicle underbody painted.
- ☒ 2. The speed measuring devices are in place and functioning.
- ☒ 3. The speed measuring devices are 1.0 m from the barrier (spec. 1.5 m) and 30 cm from the barrier (spec. is 30 cm).
- ☒ 4. Convertible top is in the closed position.
☒ N/A, not a convertible.
- ☒ 5. Instrumentation and wires are placed so motion of dummies during impact is not affected.
- ☒ 6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information.

240 kpa front left tire 240 kpa specified on tire placard or in owner information
240 kpa front right tire 240 kpa specified on tire placard or in owner information
240 kpa rear left tire 240 kpa specified on tire placard or in owner information
240 kpa rear right tire 240 kpa specified on tire placard or in owner information

- ☒ 7. Time zero contacts on barrier in place.
- ☒ 8. Pre test zero and shunt calibration adjustments performed and recorded.
- ☒ 9. Dummy temperature meets requirements of section 12.2 of the test procedure.
- ☒ 10. Vehicle hood closed and latched.
- ☒ 11. Transmission placed in neutral.
- ☒ 12. Parking brake off.
- ☒ 13. Are the heads still level?
☒ Yes, go to 14
☐ No, Adjust dummy so that head is at the angle recorded in the Appendix F or G data sheets and then continue.
- ☒ 14. Ignition in the ON position.
- ☒ 15. Doors closed and latched but not locked.
- ☒ 16. Post test zero and shunt calibration checks performed and recorded.
- ☒ 17. Actual test speed: 39.7 kmph
- ☒ 18. Vehicle rebound from the barrier: 384 cm
- ☒ 19. Describe whether the doors open after the test and what method is used to open the doors.
☒ Left Front Door: Door remained closed and latched; Door opened without tools.
☒ Right Front Door: Door remained closed and latched; Door opened without tools.
☒ Left Rear Door: Door remained closed and latched; Door opened without tools.
☒ Right Rear Door: Door remained closed and latched; Door opened without tools.

- ☒ 20. Describe the contact points of the dummy with the interior of the vehicle.
- ☒ Driver Dummy: Head to Air Bag and Visor; Chest to Air Bag; Knees to Knee Bolster
- ☒ Passenger Dummy: Head to Air Bag; Chest to Air Bag; Knees to Glove Box

REMARKS:

Signature: 

Date: 6/23/14

I certify that I have read and performed each instruction.

DATA SHEET 40
ACCIDENT INVESTIGATION MEASUREMENTS

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male
PASSENGER DUMMY:	X		5 th female		50 th male

Vehicle Year/Make/Model/Body Style:	2014 Infiniti Q50 Passenger Car
VIN:	JN1AV7AR0EM700342
Wheelbase:	2850 mm
Build Date:	05/13
Vehicle Size Category:	4
Test Weight:	2017.7 kg
Front Overhang:	835 mm
Overall Width:	1826 mm
Overall Length Center:	4760 mm

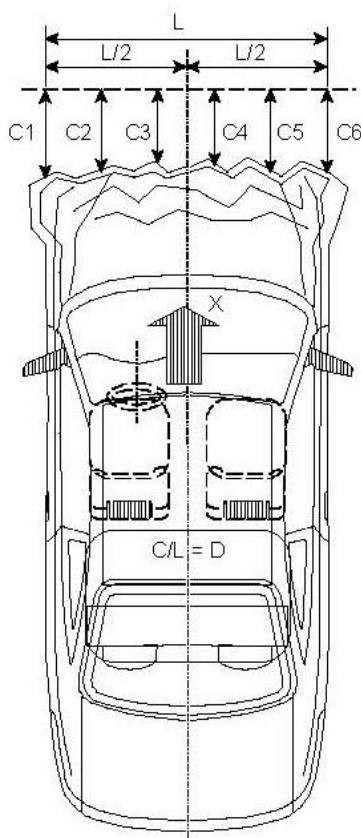
Accelerometer Data	
Location:	As per measurements on Data Sheet 33
Linearity:	>99.9%

Integration Algorithm:	Trapezoidal
Vehicle Impact Speed:	39.7 kmph
Time of Separation:	104.0 ms
Velocity Change:	44.9 kmph

CRUSH PROFILE

Collision Deformation Classification: 12FDEW1
 Midpoint of Damage: Vehicle Longitudinal Centerline
 Damage Region Length (mm): 1268
 Impact Mode: Frontal Barrier

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
C1	Crush zone 1 at left side	mm	4650	4480	170
C2	Crush zone 2 at left side	mm	4720	4502	218
C3	Crush zone 3 at left side	mm	4750	4512	238
C4	Crush zone 4 at right side	mm	4750	4484	266
C5	Crush zone 5 at right side	mm	4720	4449	271
C6	Crush zone 6 at right side	mm	4650	4435	215



REMARKS:

Signature: *Chex Vandenbosch*

Date: 6/23/14

I certify that I have read and performed each instruction.

DATA SHEET 41
WINDSHIELD MOUNTING (FMVSS 212)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	☒	32 to 40 kmph	☐	0 to 48 kmph	☐ 0 to 56 kmph
DRIVER DUMMY:	☒ X		5 th female		50 th male
PASSENGER DUMMY:	☒ X		5 th female		50 th male

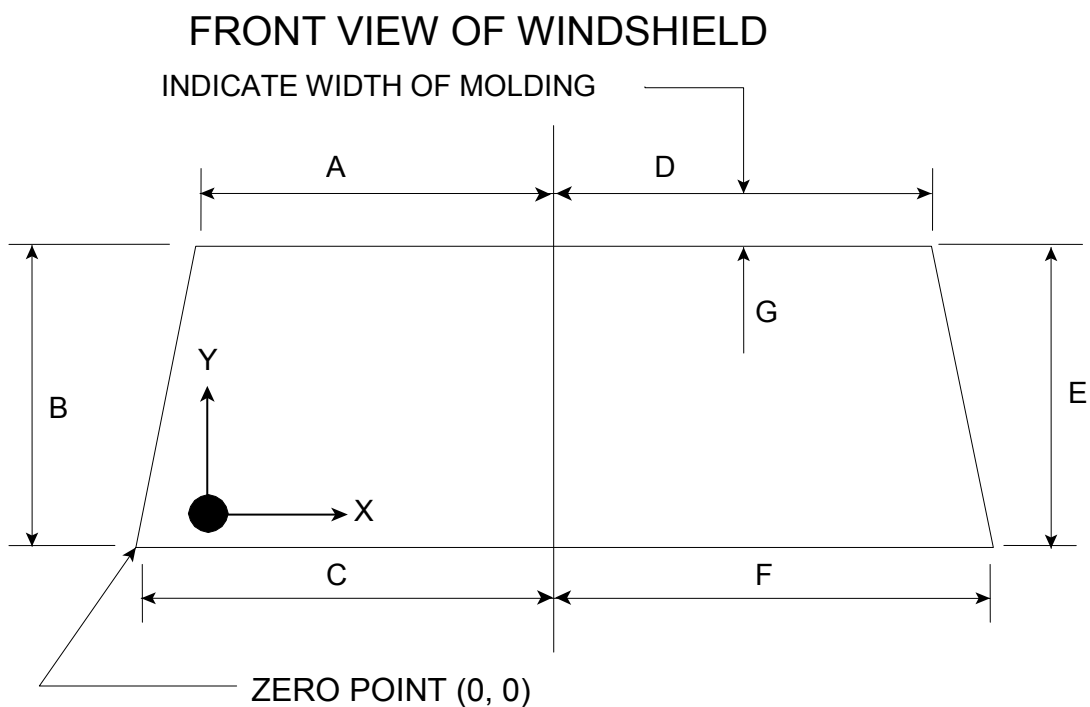
1. Pre-Crash
 - ☒ 1.1 Describe from visual inspection how the windshield is mounted and describe any trim material.

 Retained with glue
 Rubber and plastic trim
 - ☒ 1.2 Mark the longitudinal centerline of the windshield.
 - ☒ 1.3 Measure pre-crash A, B, and C for the left side and record in the chart below.
 - ☒ 1.4 Measure pre-crash C, D, and E for the right side and record in the chart below.
 - ☒ 1.5 Measure from the edge of the retainer or molding to the edge of the windshield.
 Dimension G (mm): 5 mm
2. Post Crash
 - ☒ 2.1 Can a single thickness of copier type paper (as small a piece as necessary) slide between the windshield and the vehicle body?
 - ☒ No - Pass. Skip to the table of measurements, complete it by repeating the pre-crash measurements in the post crash column, and calculate the retention percentage, which will be 100%.
 - ☐ Yes, go to 2.2
 - ☐ 2.2 Visibly mark the beginning and end of the portions of the periphery where the paper slides between the windshield and the vehicle body.
 - ☐ 2.3 Measure and record post-crash A, B, C, D, E, and F such that the measurements do not include any of the parts of the windshield where the paper slides between the windshield and the vehicle body.
 - ☐ 2.4 Calculate and record the percent retention for the right and left side of the windshield.
 - ☐ 2.5 Is total right side percent retention less than 50%?
 - ☐ Yes, Fail
 - ☐ No, Pass
 - ☐ 2.6 Is total left side percent retention less than 50%?
 - ☐ Yes, Fail
 - ☐ No, Pass

WINDSHIELD RETENTION MEASUREMENTS

	Dimension	Pre-Crash (mm)	Post-Crash (mm)	Percent Retention (Post-Test ÷ Pre-Crash)
Left Side	A	578	578	100%
	B	795	795	100%
	C	735	735	100%
	Total	2108	2108	100%
Right Side	D	578	578	100%
	E	795	795	100%
	F	735	735	100%
	Total	2108	2108	100%

Indicate area of mounting failure: NONE



REMARKS:

Signature: *Chex Vandenbergh*

Date: 6/23/14

I certify that I have read and performed each instruction.

DATA SHEET 42
WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2014 Infiniti Q50
 Test Program: FMVSS 208 Compliance
 Test Technician: Alex Vanderheyden

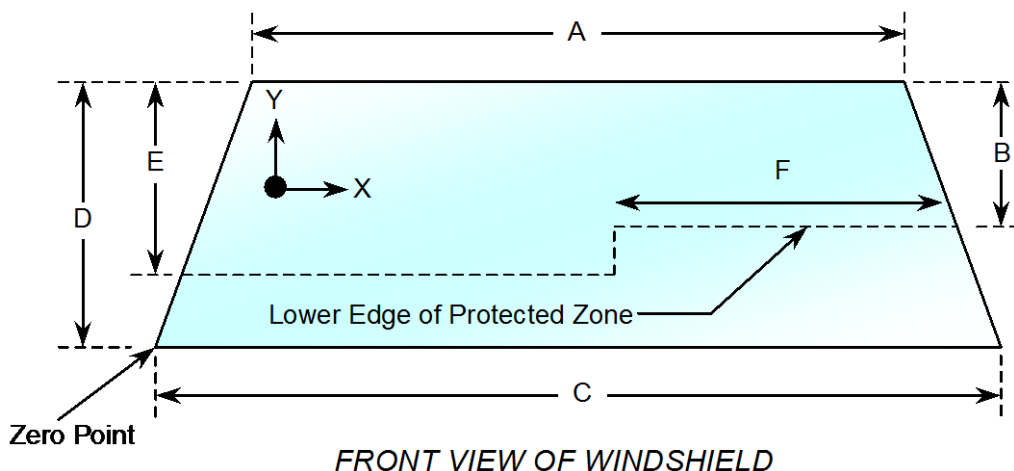
NHTSA No.: C20145200
 Test Date: 6/23/14

IMPACT ANGLE:	0°				
BELTED DUMMIES (YES/NO):	NO				
TEST SPEED:	X	32 to 40 kmph		0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	X		5 th female		50 th male
PASSENGER DUMMY:	X		5 th female		50 th male

This standard specifies limits for the displacement of vehicle components into the windshield area during a frontal barrier impact test at any speed up to and including 48 kmph.

- ☒ 1. Place a 165 mm diameter rigid sphere, with a mass of 6.8 kg on the instrument panel so that it is simultaneously touching the instrument panel and the windshield. (571.219 S6.1(a))
- ☒ 2. Roll the sphere from one side of the windshield to the other while marking on the windshield where the sphere contacts the windshield. (571.219 S6.1(b))
- ☒ 3. From the outermost contactable points on the windshield draw a horizontal line to the edges of the windshield. (571.219 S6.1(b))
- ☒ 4. Draw a line on the inner surface of the windshield that is 13 mm below the line determined in items 2 and 3.
- ☒ 5. After the crash test, record any points where a part of the exterior of the vehicle has marked, penetrated, or broken the windshield.

Provide all dimensions necessary to reproduce the protected area.



WINDSHIELD DIMENSIONS

Item	Units	Value
A	mm	1156
B	mm	478
C	mm	1470
D	mm	795
E	mm	540
F	mm	512

AREA OF PROTECTED ZONE FAILURES:

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

X	Y
NONE	

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

X	Y
NONE	

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 6/23/14

DATA SHEET 43
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Kevin Peeper

NHTSA No.: C20145200
Test Date: 6/23/14

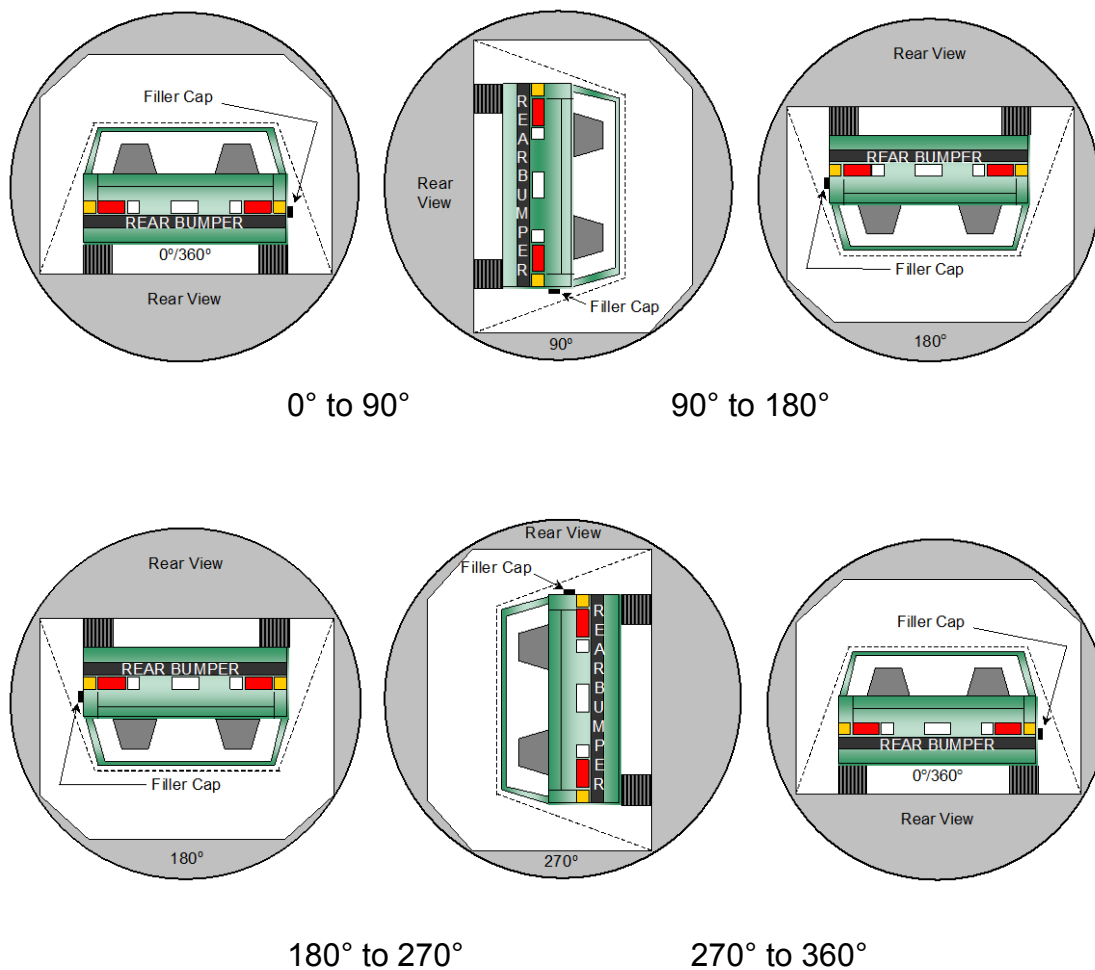
TYPE OF IMPACT:	25 mph Unbelted
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Stoddard Solvent Spillage Measurements

- A. From impact until vehicle motion ceases: 0.0 grams
(Maximum Allowable = 28 grams)
- B. For the 5 minute period after motion ceases: 0.0 grams
(Maximum Allowable = 142 grams)
- C. For the following 25 minutes: 0.0 grams
(Maximum Allowable = 28 grams/minute)
- D. Spillage: NONE

REMARKS: NO SPILLAGE

FMVSS 301 STATIC ROLLOVER DATA



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 locations: **None**

Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (grams)
0° to 90°	118	300	0.0
90° to 180°	109	300	0.0
180° to 270°	101	300	0.0
270° to 360°	114	300	0.0

FMVSS 305
ELECTRIC POWERED VEHICLES: ELECTROLYTE
SPILLAGE AND ELECTRICAL SHOCK PROTECTION

This hybrid electric vehicle, a 2014 Infiniti Q50 (NHTSA No. C20145200), in conjunction with the FMVSS 208, was tested to FMVSS 305.

The test was performed in accordance with the specifications of the Office of Vehicle Safety Compliance (OVSC) Test Procedures TP-305-01 to determine compliance to the requirements of Federal Motor Vehicle Safety Standards (FMVSS) 305, "Electric Powered Vehicles: Electrolyte Spillage and Electrical Shock Protection".

Based on the test results, the 2014 Infiniti Q50 appears to meet the requirements of FMVSS 305 testing.

If a measured voltage was zero and resulted in a division by zero "Zero Volts" was reported. This condition is considered being compliant as stated in TP-305-01 12.4 F.

The following data sheets document the results of the FMVSS 305 test.

DATA SHEET 1
ELECTRIC VEHICLE PROPULSION SYSTEM

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Kevin Peeper

NHTSA No.: C20145200
Test Date: 6/23/14

VEHICLE PROPULSION SYSTEM

Type of Electric Vehicle (Electric/Hybrid):	Gas - Electric - Hybrid
Propulsion Battery Type:	Lithium Ion Battery
Nominal Voltage (V):	346 V
Physical Location of Automatic Propulsion Battery Disconnect:	Inside the Electric energy storage system
Auxiliary Battery Type:	12 V Lead Acid Battery

DATA SHEET 2

ELECTRIC ENERGY STORAGE CONVERSION / DEVICE SYSTEM DATA (COTR SUPPLIED DATA)

Electrolyte Fluid Type:	Non-aqueous organic electrolyte	
Electrolyte Fluid Specific Gravity:	1.192 (@ 20°C)	
Electrolyte Kinematic Viscosity (centistokes):	3.9 (@ 20°C)	
Electrolyte Fluid Color:	Clear	
Electric Energy Storage/Conversion System Coolant Type, Color, Specific Gravity (if applicable):	Air	
Location of Battery Modules:	☐	Inside Passenger Compartment
	☒	Outside Passenger Compartment
	The high voltage battery is mounted behind the rear passenger seat.	
Electric Energy Storage/Conversion System State of Charge:	☐	Maximum State of Charge
	☒	Range of Normal Operating Voltage
Maximum	N/A	
Test Voltage - No less than 95% of maximum State of Charge:	N/A	
Range of Normal Operating Voltage:	240 ~ 408 Volts	
Test Voltage – Within Normal Operative Voltage Range:	384.5 Volts	
Test Vehicle Equipped with Electrical Isolation Monitoring	Not Stated	

VEHICLE CHASSIS GROUND POINT(S) LOCATION(S)

Details of Vehicle Chassis Ground Point(s) & Location(s)	Vehicle Ground is Located at a Mounting Screw on the Right Side of the Vehicle
--	--

ELECTRIC ENERGY STORAGE/CONVERSION TEST POINTS

Details of Electric Energy Storage/Conversion System Test Points:	Inside the Propulsion Battery System at the Positive and Negative Eyelet Locations
---	--

DATA SHEET 3

PRE-IMPACT ELECTRIC ISOLATION MEASUREMENTS & CALCULATIONS

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Kevin Peeper

NHTSA No.: C20145200
Test Date: 6/23/14

VOLTMETER INFORMATION

Make:	Fluke
Model:	177
Serial Number:	17210161
Internal Impedance Value (M Ω):	> 10 M Ω < 100 pF
Resolution (V):	.001 Volts
Last Calibration Date:	01/22/2014

ELECTRIC ENERGY STORAGE/CONVERSION SYSTEM VOLTAGE

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

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

Vb (V):	384.5
---------	-------

ELECTRIC ENERGY STORAGE/CONVERSION SYSTEM TO VEHICLE CHASSIS

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

V1 (V):	172.1
V2 (V):	171.5

ELECTRIC ENERGY STORAGE / CONVERSION SYSTEM TO VEHICLE CHASSIS ACROSS RESISTOR

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

Ro (Ω):	200320 Ω
------------------	-----------------

V1 (V) Pre-Impact:	172.1
V2 (V): Pre-Impact:	171.5

DATA SHEET 3 (CONTINUED)

PRE-IMPACT ELECTRICAL ISOLATION MEASUREMENTS & CALCULATIONS

ELECTRICAL ISOLATION MEASUREMENT

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

V1' (V):	23.5
$R_{i1} = R_o (1 + V_2/V_1) [(V_1 - V_1')/V_1']$	
Ri1 (Ω):	2,528,993
V2' (V):	27.2
$R_{i2} = R_o (1 + V_1/V_2) [(V_2 - V_2')/V_2']$	
Ri2 (Ω):	2,129,172
Ri = The lesser of Ri1 and Ri2	
Ri Pre-Test (Ω):	2,129,172
Ri/Vb (Ω/V):	5538
Minimum Electrical Isolation Value is 500 Ω/V	

Note: Measurements completed within 15 minutes prior to impact.

Is the measured Electrical Isolation Value:	Yes, Pass	No, Fail
$\geq 500 \Omega/V$ without electrical isolation monitoring	X	
$\geq 100 \Omega/V$ with electrical isolation monitoring		

DATA SHEET 4
POST-IMPACT DATA

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Kevin Peeper

NHTSA No.: C20145200
Test Date: 6/23/14

VOLTMETER INFORMATION

Make:	Fluke
Model:	177
Serial Number:	17210161
Internal Impedance Value (MΩ):	> 10 MΩ < 100 pF
Nominal Propulsion Battery Voltage (Vb) (V):	384.5
Resolution (V):	.001 Volts
NOTE: Record V1, V2, V1', V2' voltage measurements at a minimum of 5 seconds after impact.	

**ELECTRIC ENERGY STORAGE/CONVERSION SYSTEM
VOLTAGE LOCATION OF MEASUREMENT**

Measurement is made from the side of the automatic disconnect connected to the electric powertrain.

Vb (V):	2.7
---------	-----

ELECTRIC ENERGY STORAGE/CONVERSION SYSTEM VOLTAGE

V1 =	0.1	V	Impact Time:	0	Minutes	52	s
V2 =	0.1	V	Impact Time:	0	Minutes	56	s
V1' =	0.0	V	Impact Time:	1	Minutes	06	s
V2' =	0.0	V	Impact Time:	1	Minutes	08	s

ELECTRICAL ISOLATION MEASUREMENT

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

$R_{i1} = R_o (1 + V_2/V_1) [(V_1 - V_1')/V_1']$							
Ri1 =	Zero Volts	Ω	Impact Time:	0	Minutes	52	s
$R_{i2} = R_o (1 + V_1/V_2) [(V_2 - V_2')/V_2']$							
Ri2 =	Zero Volts	Ω	Impact Time:	0	Minutes	56	s
Ri = The lesser of Ri1 and Ri2							
Ri =	Zero Volts	Ω	Impact Time:	0	Minutes	52	s
Ri/Vb = electrical Isolation Value/Nominal Battery Voltage							
Minimum Electrical Value is 500 Ω/V							
Ri/Vb =	Zero Volts	Ω/V	Impact Time:	0	Minutes	52	s

Is the measured Electrical Isolation Value:	Yes, Pass	No, Fail
≥500 Ω/V without electrical isolation monitoring	X	
≥100 Ω/V with electrical isolation monitoring		

DATA SHEET 4 (CONTINUED)

POST-IMPACT DATA

ELECTRIC ENERGY STORAGE/CONVERSION DEVICE

	Inside Passenger Compartment	Outside Passenger Compartment
Location of Electric Energy Storage/Conversion Device:		X

	Yes, Pass	No, Fail
All Components of Electrical Energy Storage/Conversion Device remained attached to the vehicle with at least one mounting location.	X	

Describe Electric Energy Storage/Conversion Device movement within the passenger compartment [Supply photographs as appropriate]:
Not Applicable

	Yes, Fail	No, Pass
Has the Electric Energy Storage/Conversion Device moved within the passenger compartment?		X

Describe intrusion of an outside Electric Energy Storage/Conversion Device into the passenger compartment [Supply photographs as appropriate]:
No Movement

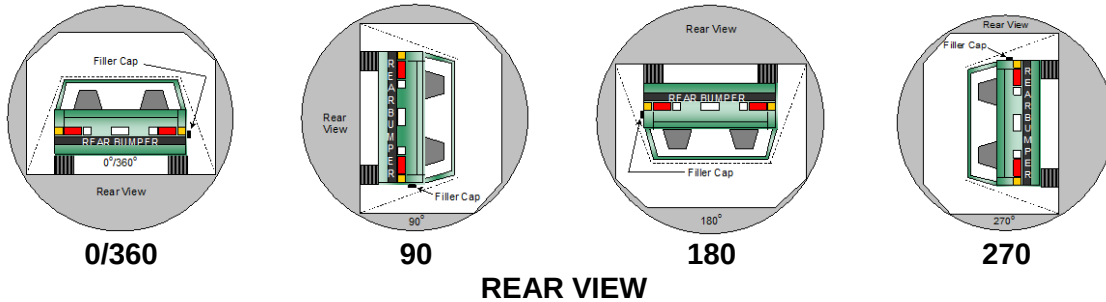
	Yes, Fail	No, Pass
Has an outside Electric Energy Storage/Conversion Device intruded into the passenger compartment?		X

	Yes, Fail	No, Pass
Is Electric Energy Storage/Conversion Device electrolyte spillage visible in the passenger compartment?		X

DATA SHEET 5
STATIC ROLLOVER TEST DATA

Test Vehicle: 2014 Infiniti Q50
Test Program: FMVSS 208 Compliance
Test Technician: Kevin Peeper

NHTSA No.: C20145200
Test Date: 6/23/14



**DETERMINATION OF ELECTRIC ENERGY STORAGE / CONVERSION DEVICE
ELECTROLYTE COLLECTION TIME PERIOD**

Rollover Stage	Rotation Time (spec. 1-3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
0° - 90°	1	minutes	58	seconds	5	minutes	6	minutes	58	seconds	7	minutes
90° - 180°	1	minutes	49	seconds	5	minutes	6	minutes	49	seconds	7	minutes
180° - 270°	1	minutes	41	seconds	5	minutes	6	minutes	41	seconds	7	minutes
270° - 360°	1	minutes	54	seconds	5	minutes	6	minutes	54	seconds	7	minutes

**ACTUAL TEST VEHICLE ELECTRIC ENERGY STORAGE/CONVERSION DEVICE
ELECTROLYTE SPILLAGE**

Rollover Stage	Electric Energy Storage/Conversion Device Electrolyte Spillage (L)	Spillage Location
0° to 90°	0	Not Applicable
90° to 180°	0	Not Applicable
180° to 270°	0	Not Applicable
270° to 360°	0	Not Applicable

Total Spillage: 0 L

	Yes, Fail	No, Pass
Is the total spillage of Electric Energy Storage/Conversion Device electrolyte greater than 5.0 Liters?		X
Is Electric Energy Storage/Conversion Device electrolyte spillage visible in the passenger compartment?		X

DATA SHEET 5 (CONTINUED)
STATIC ROLLOVER TEST DATA

VOLTMETER INFORMATION

Make:	Fluke
Model:	177
Serial Number:	17210161
Internal Impedance Value (MΩ):	> 10 MΩ < 100 pF
Nominal Electric Energy Storage/Conversion Device Voltage (Vb) (V):	384.5
Record V1, V2, V1', V2' voltage measurements at the start of each successive increment of 90°, 180°, 270°, and 360° of the static rollover test.	

ELECTRICAL ISOLATION MEASUREMENT

V1 =	0.0	V	0°	Time:		Minutes		s
V1 =	0.0	V	90°	Time:	2	Minutes	20	s
V1 =	0.0	V	180°	Time:	2	Minutes	04	s
V1 =	0.0	V	270°	Time:	2	Minutes	50	s
V1 =	0.0	V	360°	Time:	2	Minutes	26	s
V2 =	0.0	V	0°	Time:		Minutes		s
V2 =	0.0	V	90°	Time:	2	Minutes	30	s
V2 =	0.0	V	180°	Time:	2	Minutes	09	s
V2 =	0.0	V	270°	Time:	2	Minutes	55	s
V2 =	0.0	V	360°	Time:	2	Minutes	35	s
V1' =	0.0	V	0°	Time:		Minutes		s
V1' =	0.0	V	90°	Time:	2	Minutes	35	s
V1' =	0.0	V	180°	Time:	2	Minutes	18	s
V1' =	0.0	V	270°	Time:	3	Minutes	03	s
V1' =	0.0	V	360°	Time:	2	Minutes	43	s
V2' =	0.0	V	0°	Time:		Minutes		s
V2' =	0.0	V	90°	Time:	2	Minutes	40	s
V2' =	0.0	V	180°	Time:	2	Minutes	23	s
V2' =	0.0	V	270°	Time:	3	Minutes	08	s
V2' =	0.0	V	360°	Time:	2	Minutes	47	s
Vb =	0.0	V	0°	Time:		Minutes		s
Vb =	0.0	V	90°	Time:	2	Minutes	18	s
Vb =	0.0	V	180°	Time:	2	Minutes	58	s
Vb =	0.0	V	270°	Time:	2	Minutes	44	s
Vb =	0.0	V	360°	Time:	2	Minutes	21	s

DATA SHEET 5 (CONTINUED)
STATIC ROLLOVER TEST DATA

ELECTRICAL ISOLATION CALCULATION

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

$R_{i1} = R_o (1 + V_2/V_1) [(V_1 - V_1')/V_1']$								
Ri1 =	Zero Volts	Ω	0°	Time:		Minutes		s
Ri1 =	Zero Volts	Ω	90°	Time:	2	Minutes	35	s
Ri1 =	Zero Volts	Ω	180°	Time:	2	Minutes	18	s
Ri1 =	Zero Volts	Ω	270°	Time:	3	Minutes	03	s
Ri1 =	Zero Volts	Ω	360°	Time:	2	Minutes	43	s
$R_{i2} = R_o (1 + V_1/V_2) [(V_2 - V_2')/V_2']$								
Ri2 =	Zero Volts	Ω	0°	Time:		Minutes		s
Ri2 =	Zero Volts	Ω	90°	Time:	2	Minutes	40	s
Ri2 =	Zero Volts	Ω	180°	Time:	2	Minutes	23	s
Ri2 =	Zero Volts	Ω	270°	Time:	3	Minutes	08	s
Ri2 =	Zero Volts	Ω	360°	Time:	2	Minutes	47	s
Ri = The lesser of Ri1 and Ri2								
Ri =	Zero Volts	Ω	0°	Time:		Minutes		s
Ri =	Zero Volts	Ω	90°	Time:	2	Minutes	35	s
Ri =	Zero Volts	Ω	180°	Time:	2	Minutes	18	s
Ri =	Zero Volts	Ω	270°	Time:	3	Minutes	03	s
Ri =	Zero Volts	Ω	360°	Time:	2	Minutes	43	s
Ri/Vb = Electrical Isolation Value/Nominal Battery Voltage Minimum Electrical Isolation Value is 500 Ω /V								
Ri/Vb =	Zero Volts	Ω/V	0°	Time:		Minutes		s
Ri/Vb =	Zero Volts	Ω/V	90°	Time:	2	Minutes	35	s
Ri/Vb =	Zero Volts	Ω/V	180°	Time:	2	Minutes	18	s
Ri/Vb =	Zero Volts	Ω/V	270°	Time:	3	Minutes	03	s
Ri/Vb =	Zero Volts	Ω/V	360°	Time:	2	Minutes	43	s

Is the measured Electrical Isolation Value:	Yes, Pass	No, Fail
≥500 Ω/V without electrical isolation monitoring	X	
≥100 Ω/V with electrical isolation monitoring		

APPENDIX A

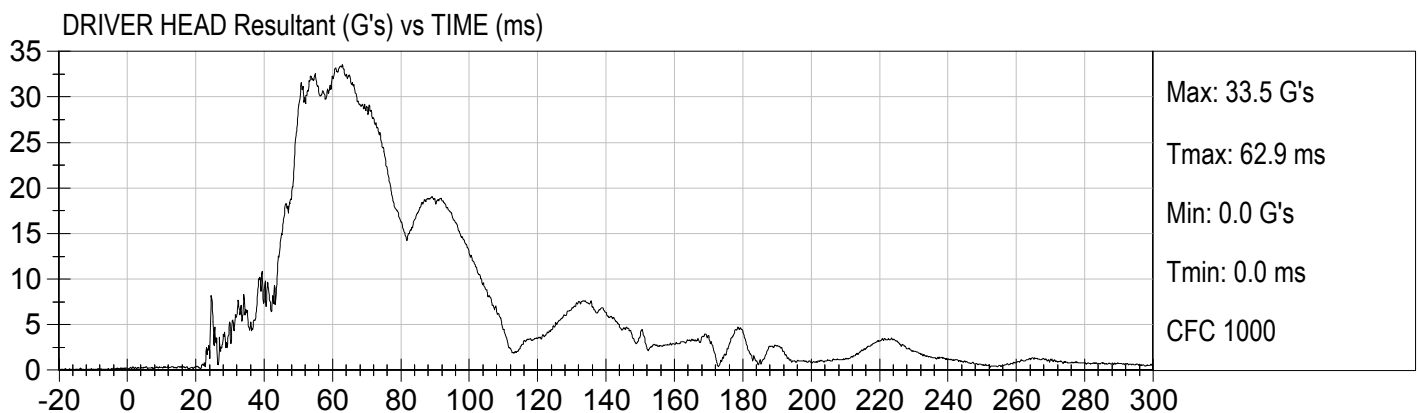
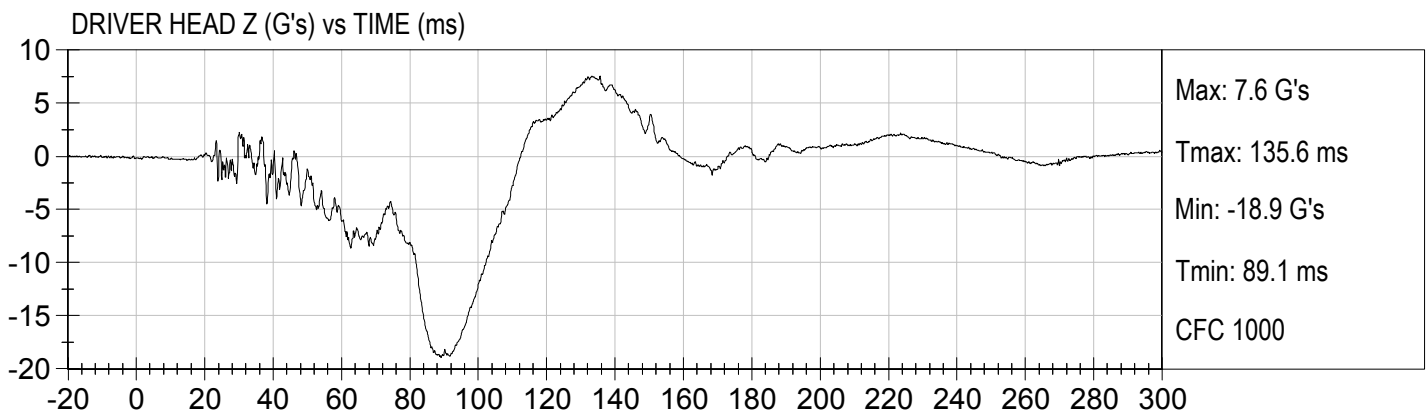
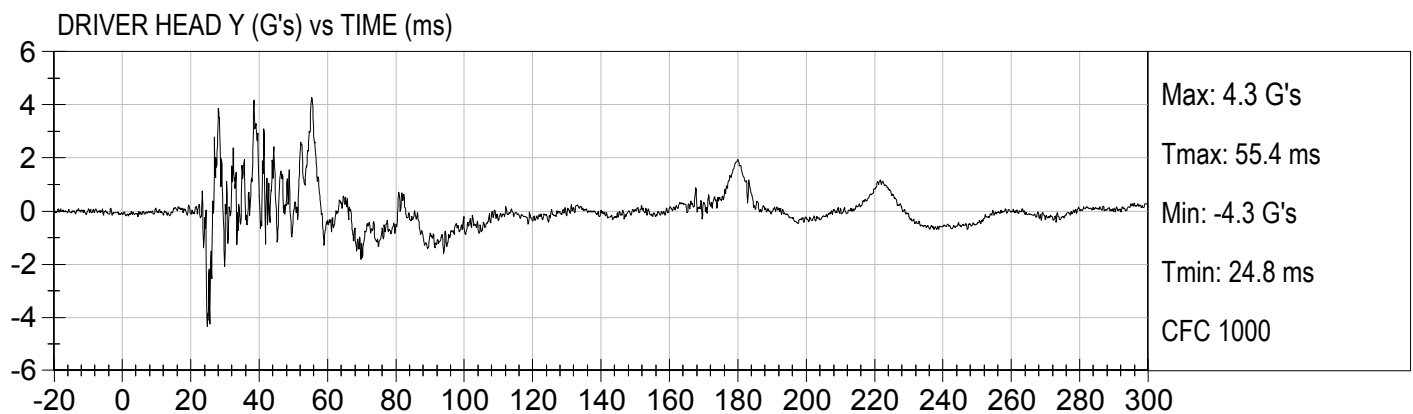
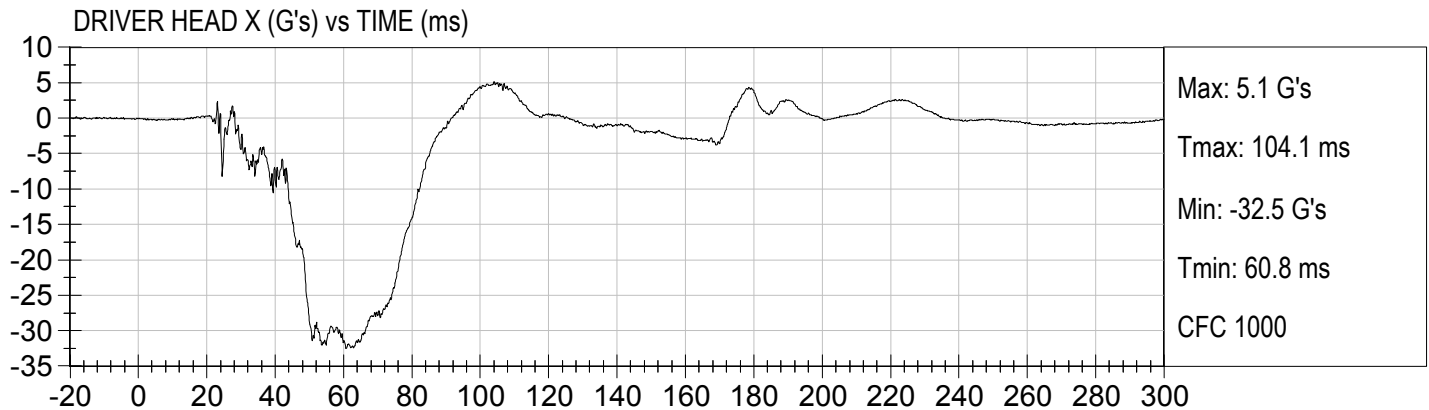
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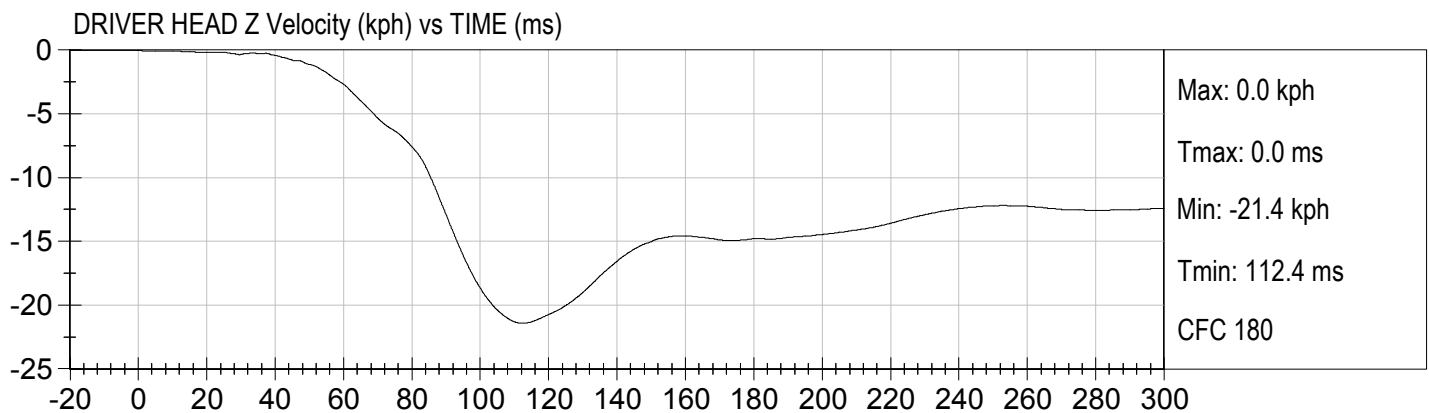
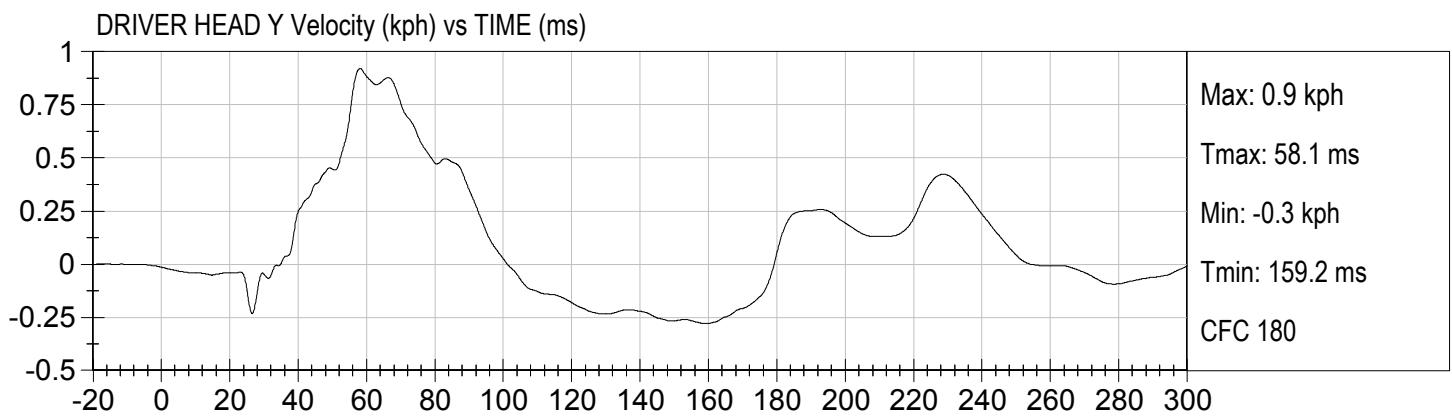
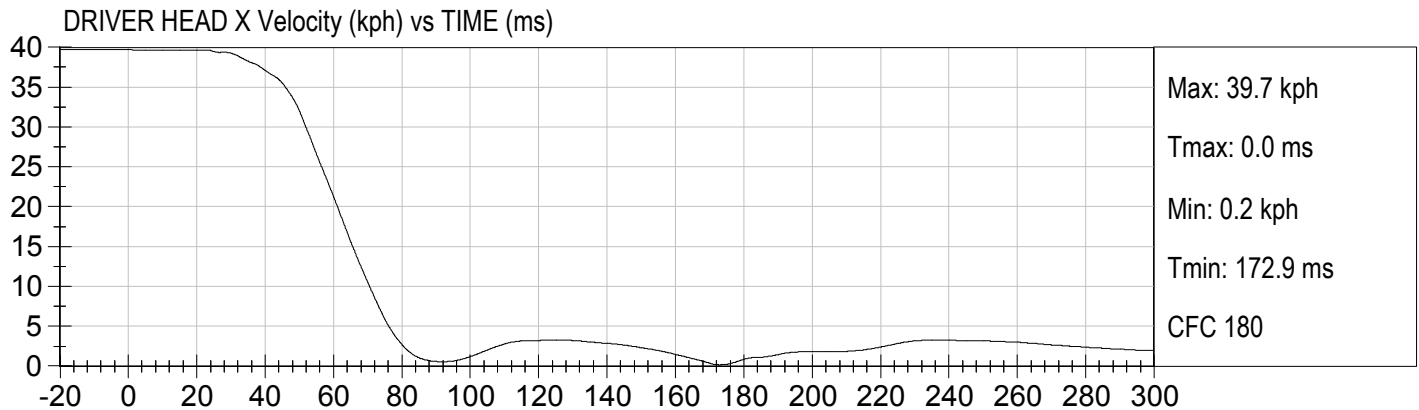
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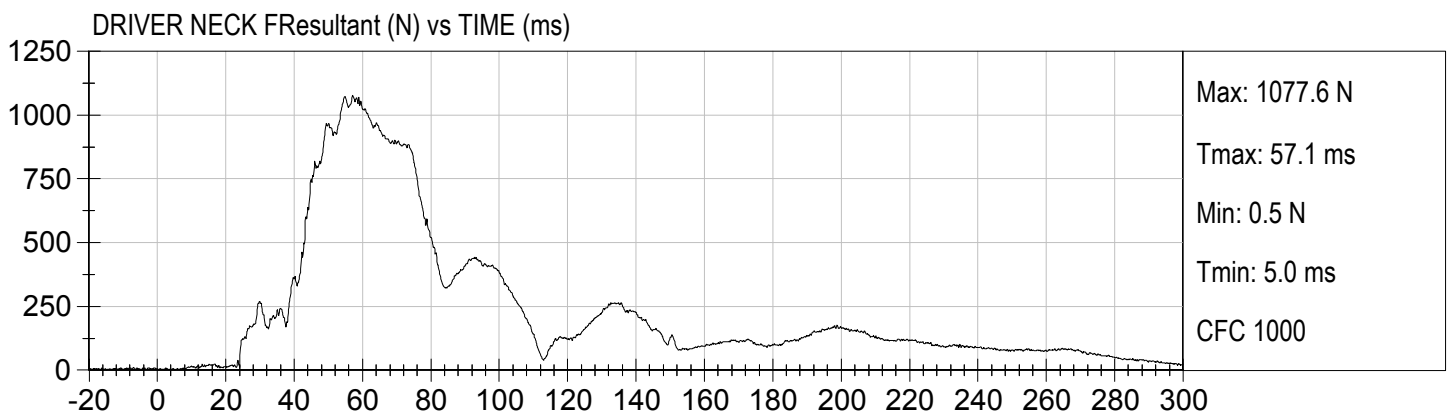
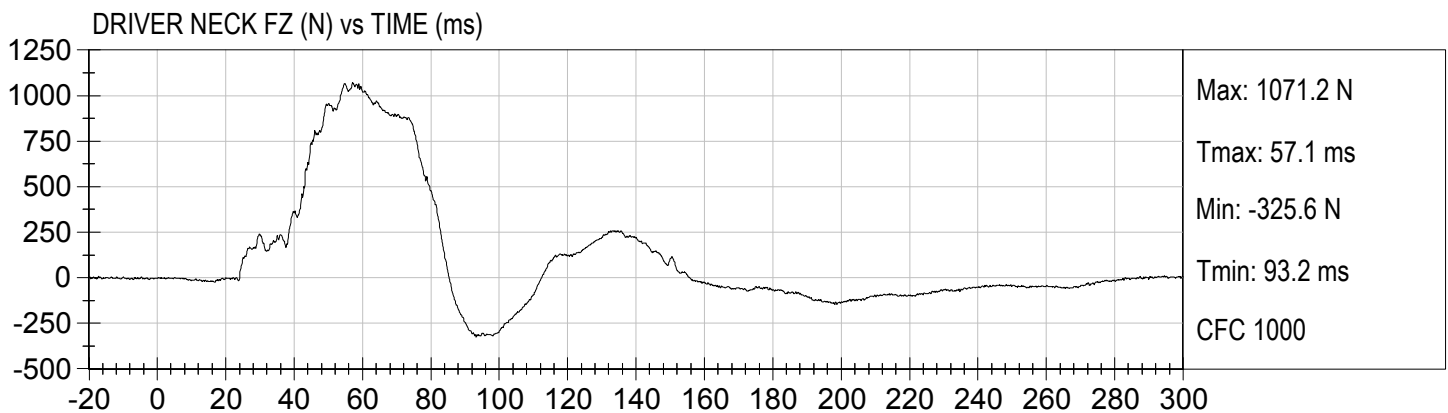
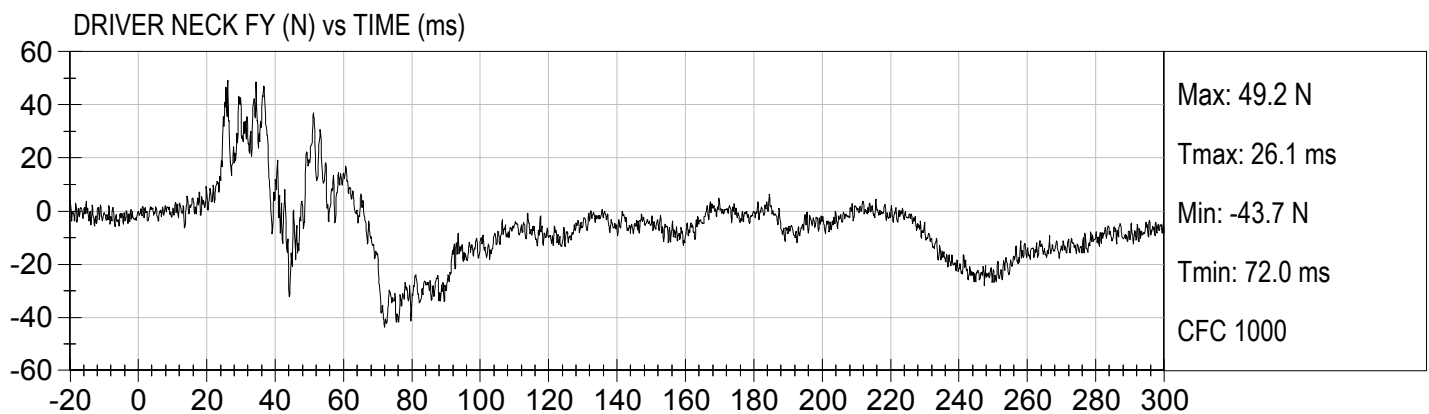
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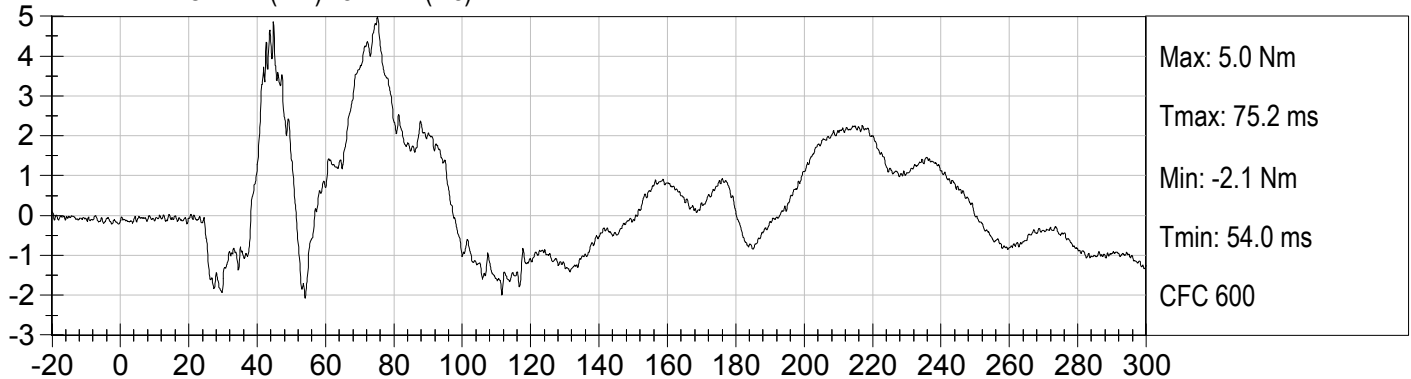
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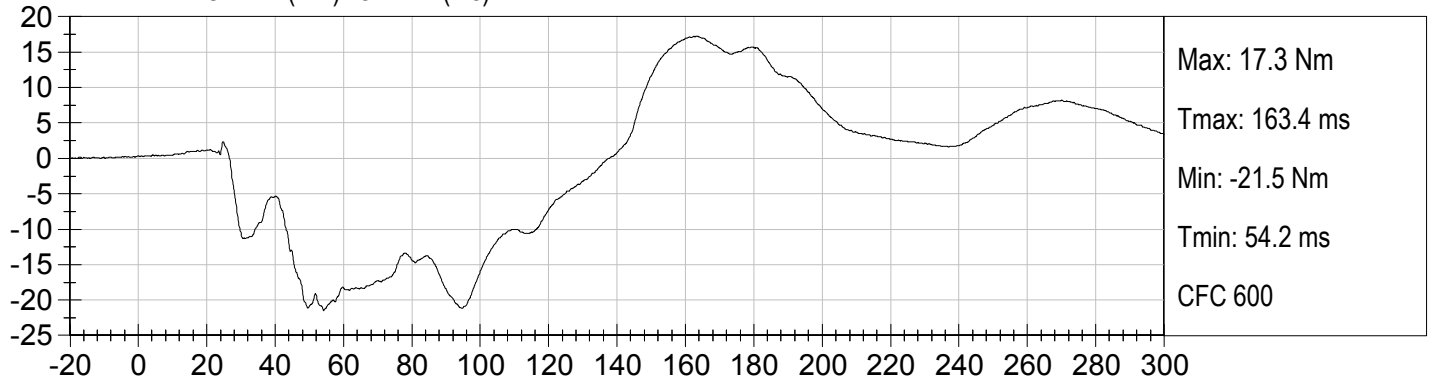




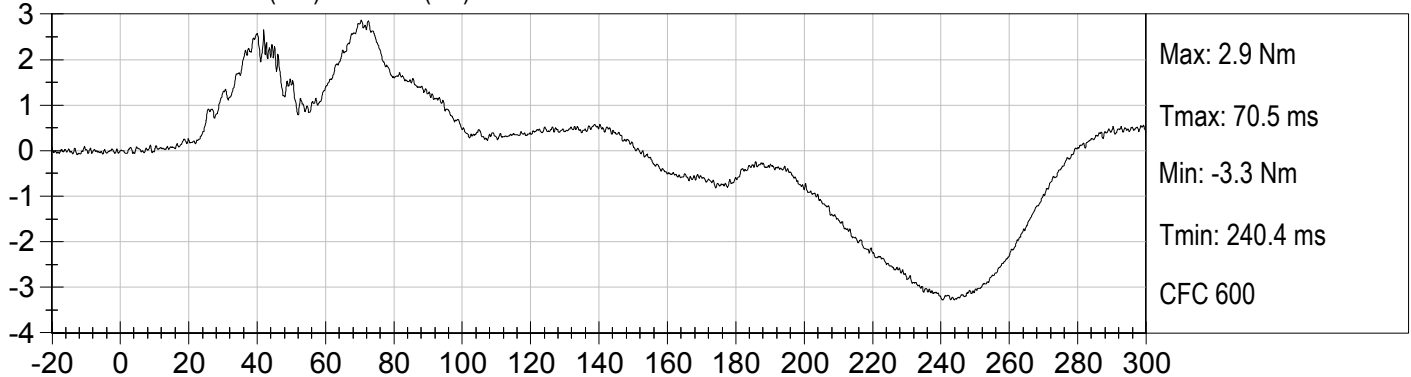
DRIVER NECK MX (Nm) vs TIME (ms)



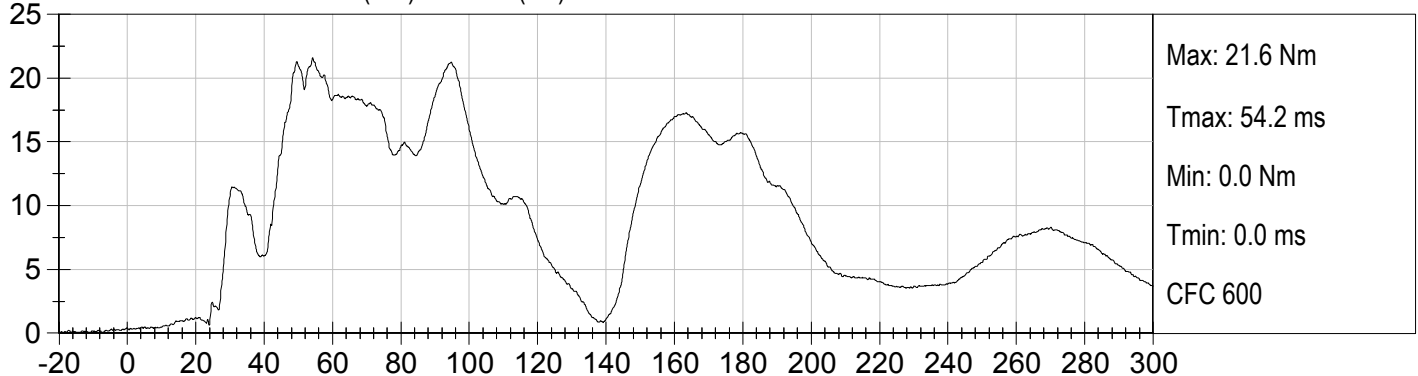
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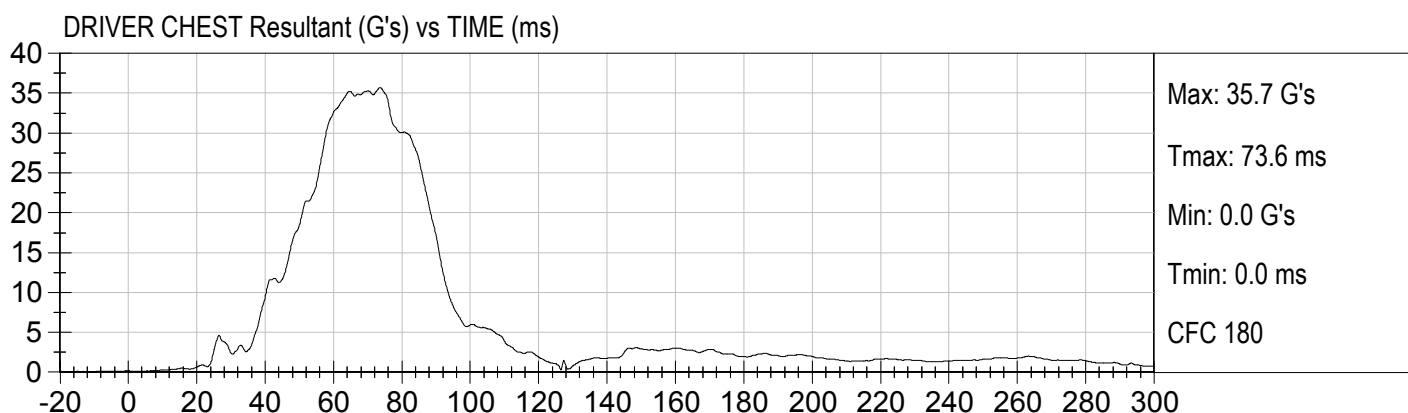
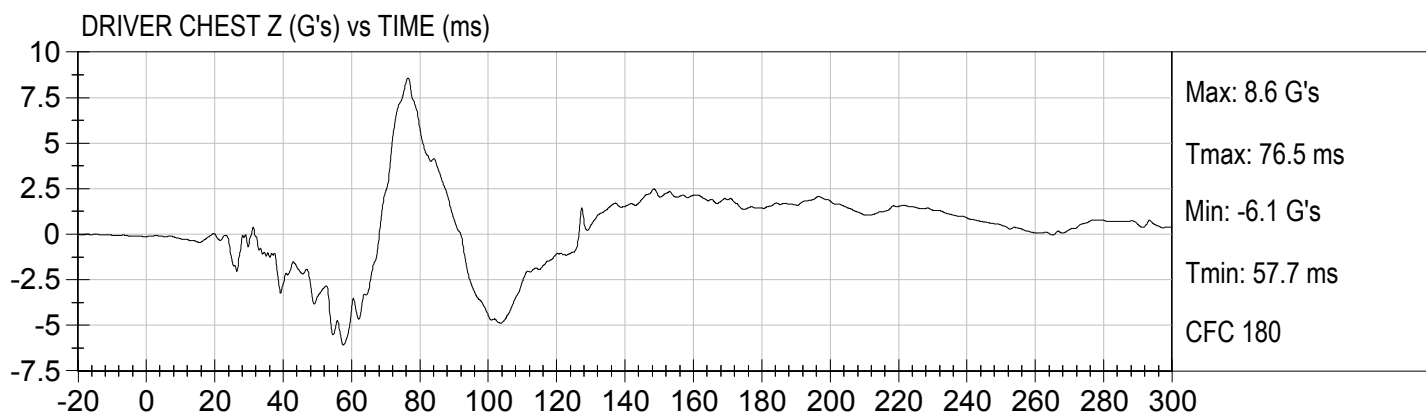
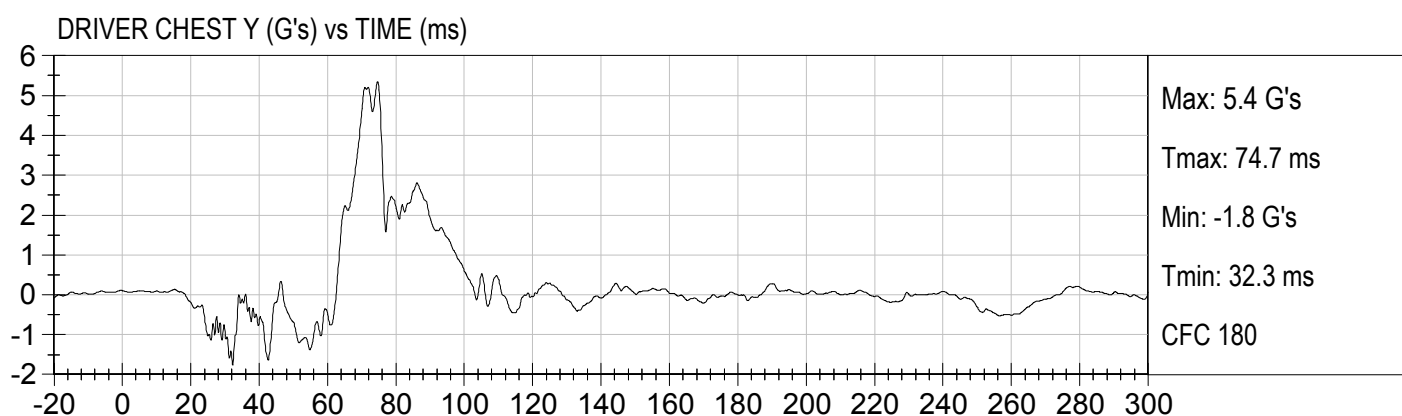
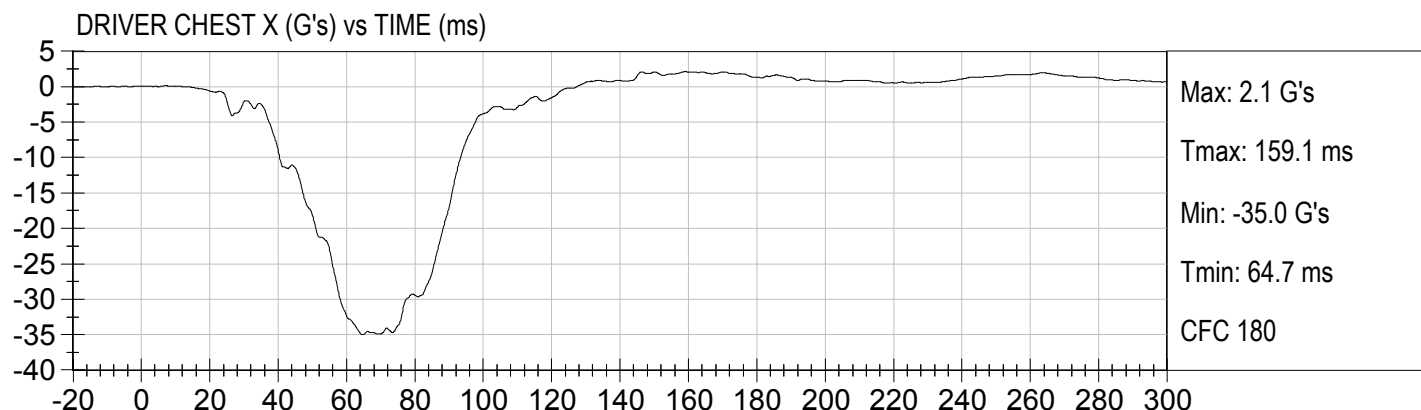


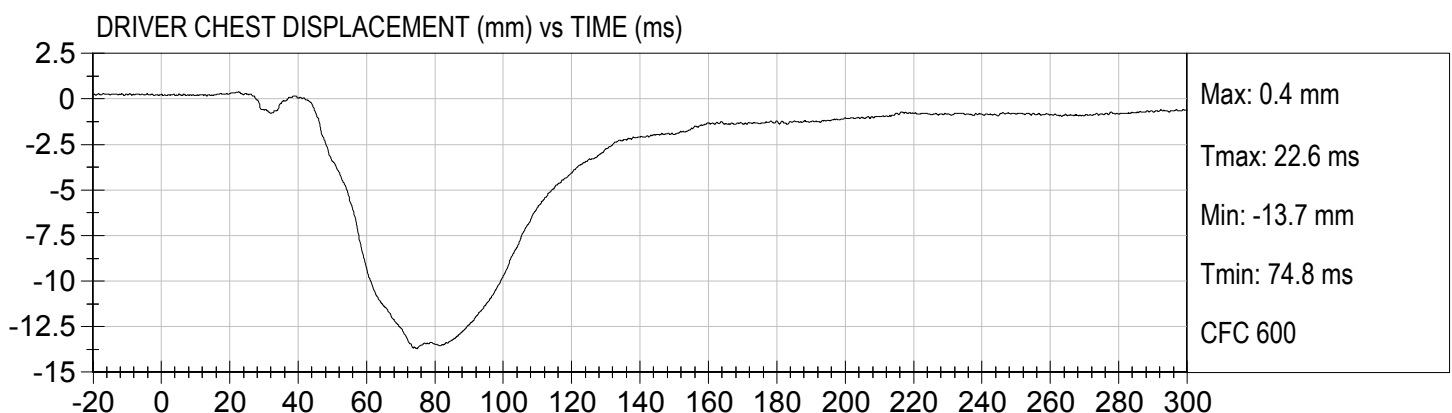
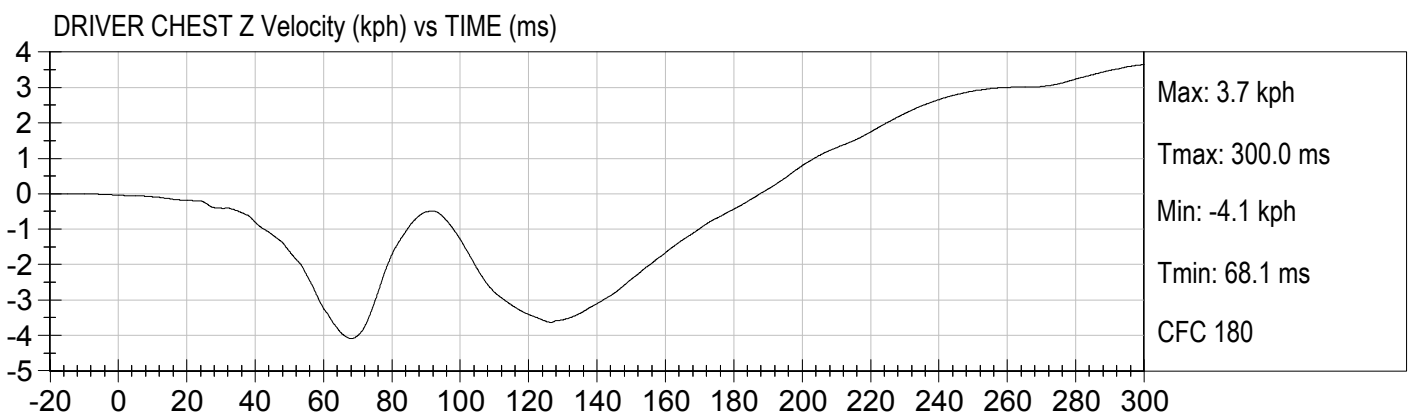
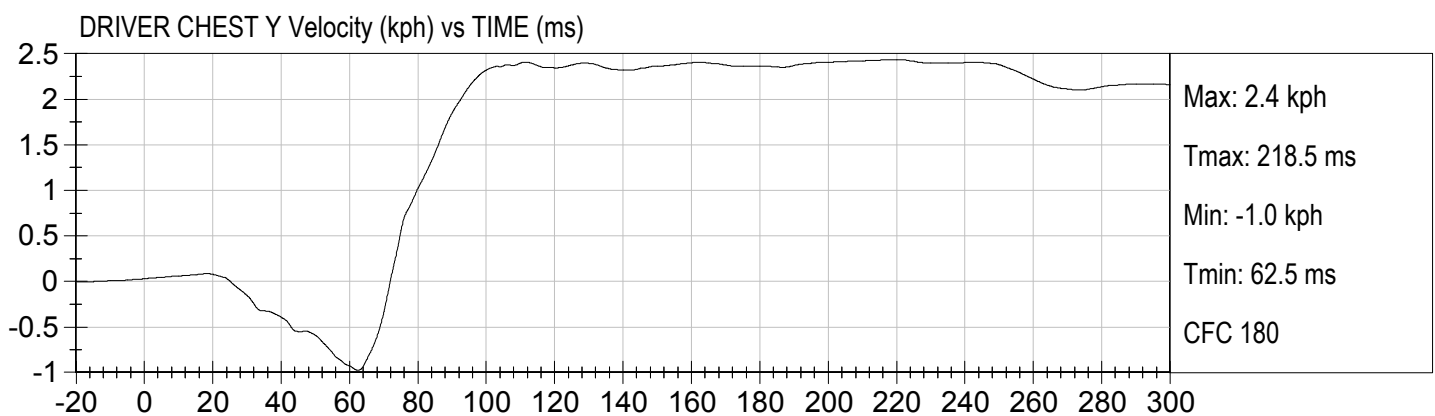
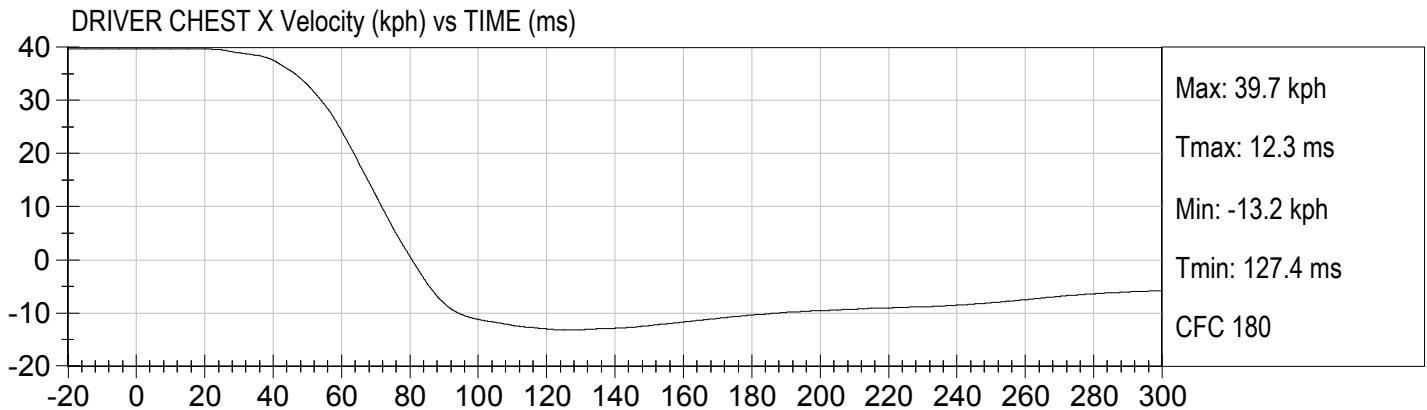
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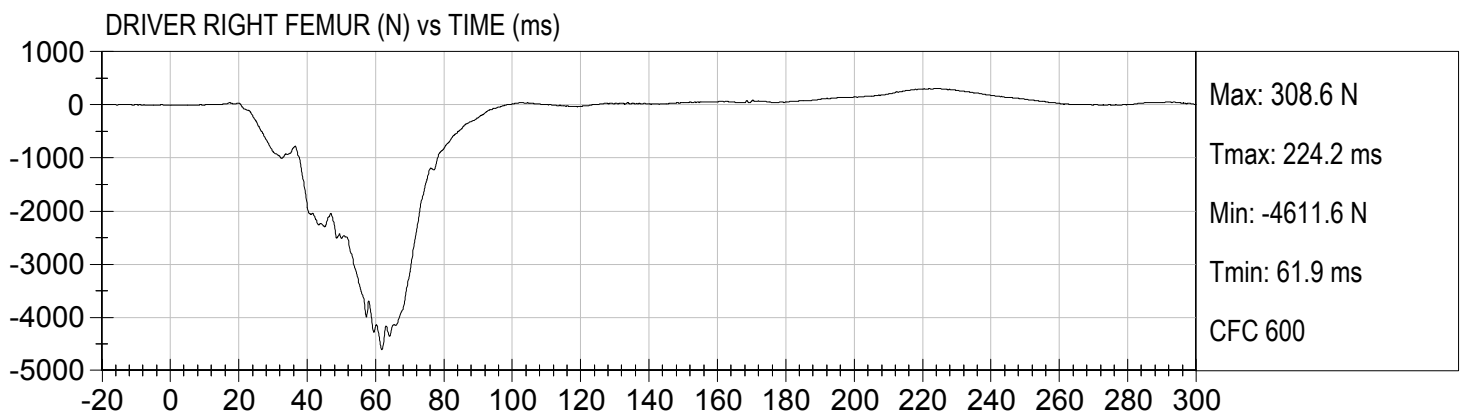
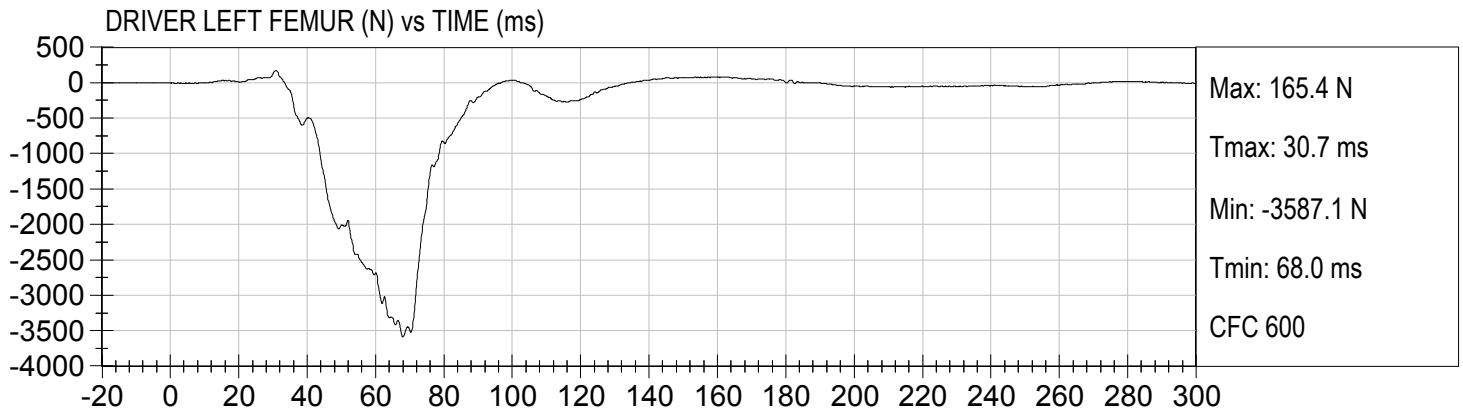


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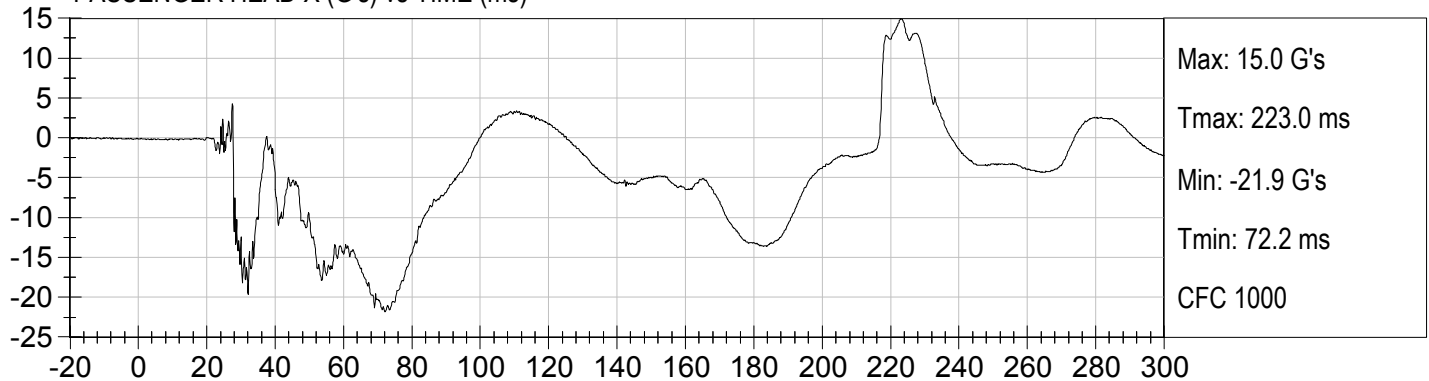




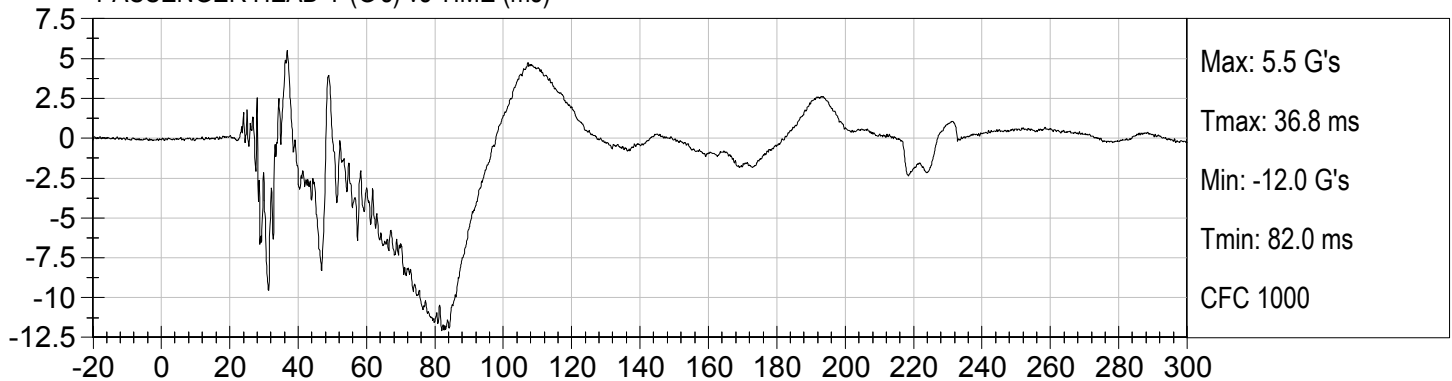




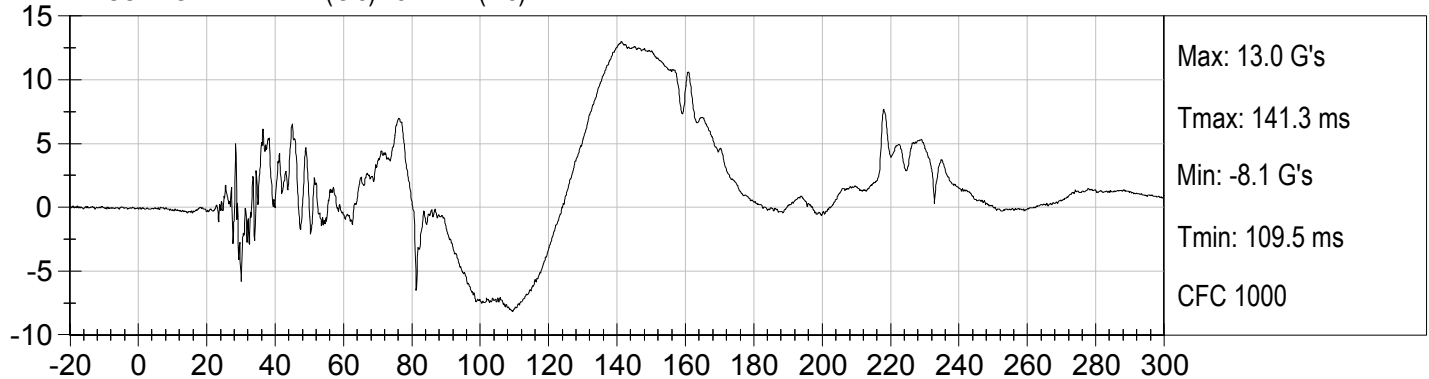
PASSENGER HEAD X (G's) vs TIME (ms)



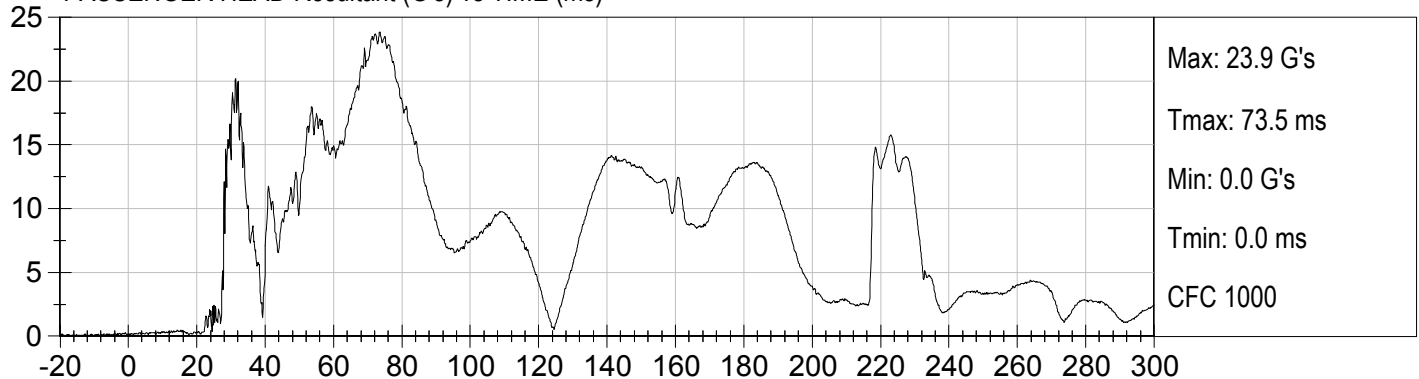
PASSENGER HEAD Y (G's) vs TIME (ms)

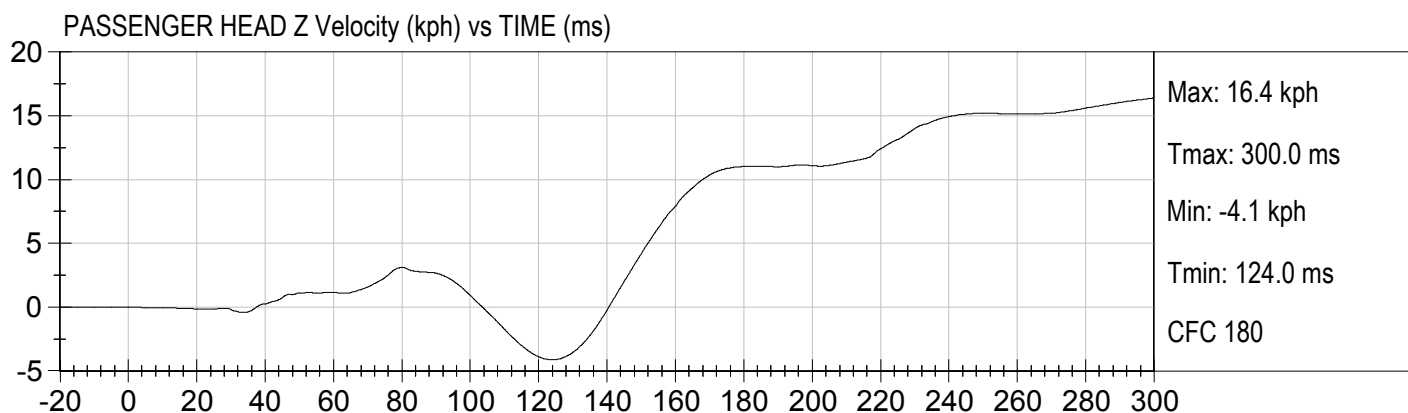
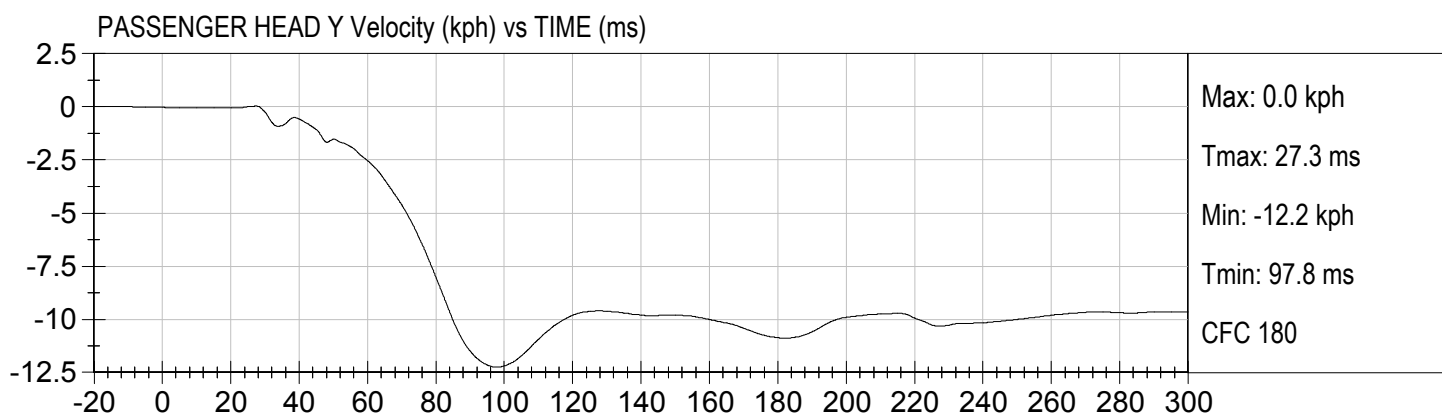
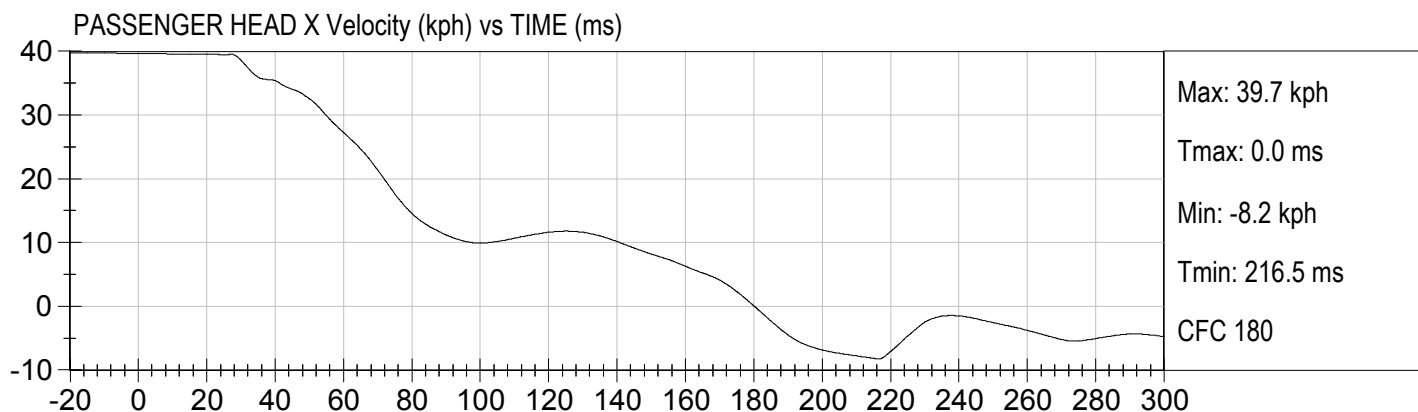


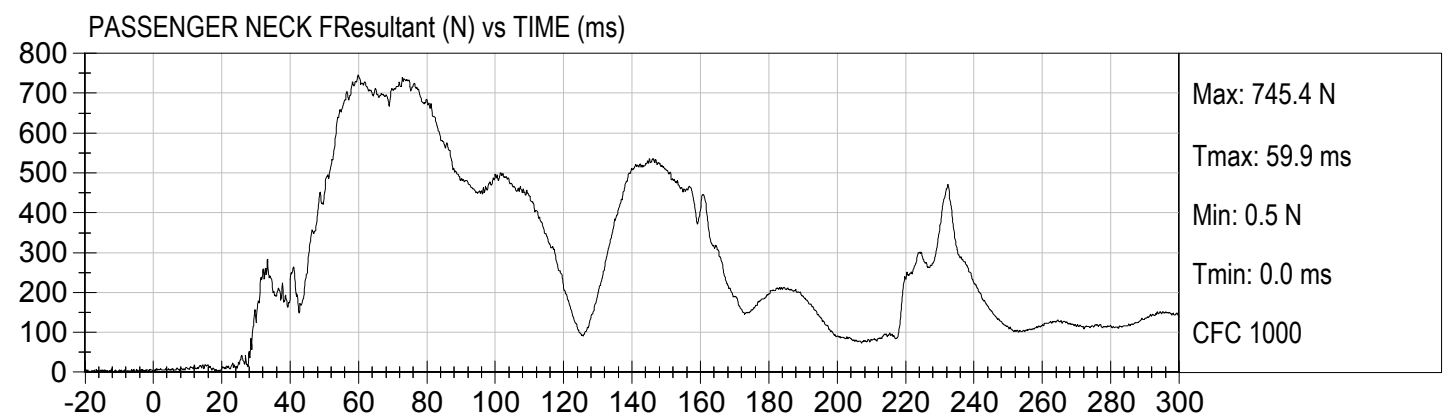
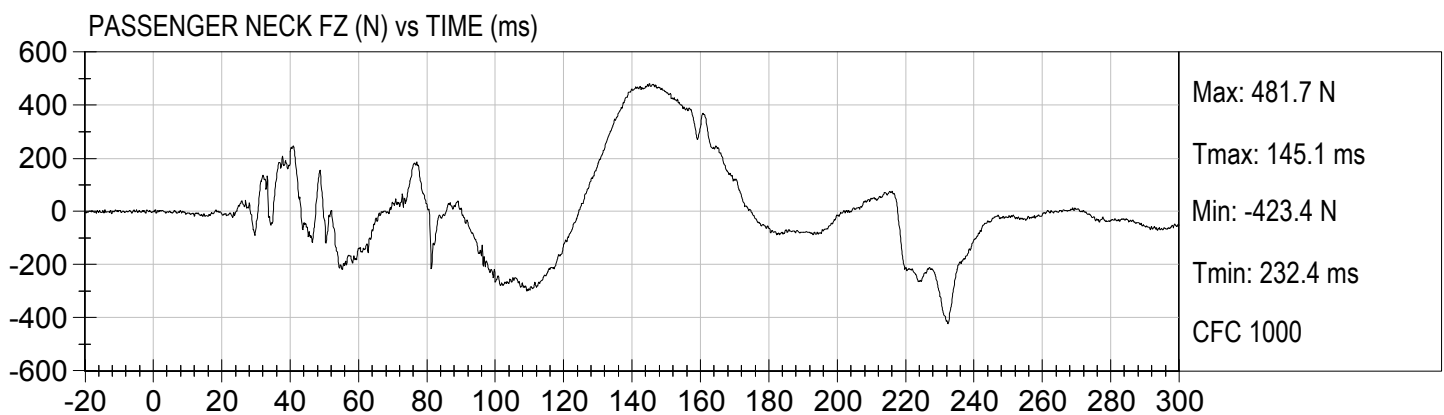
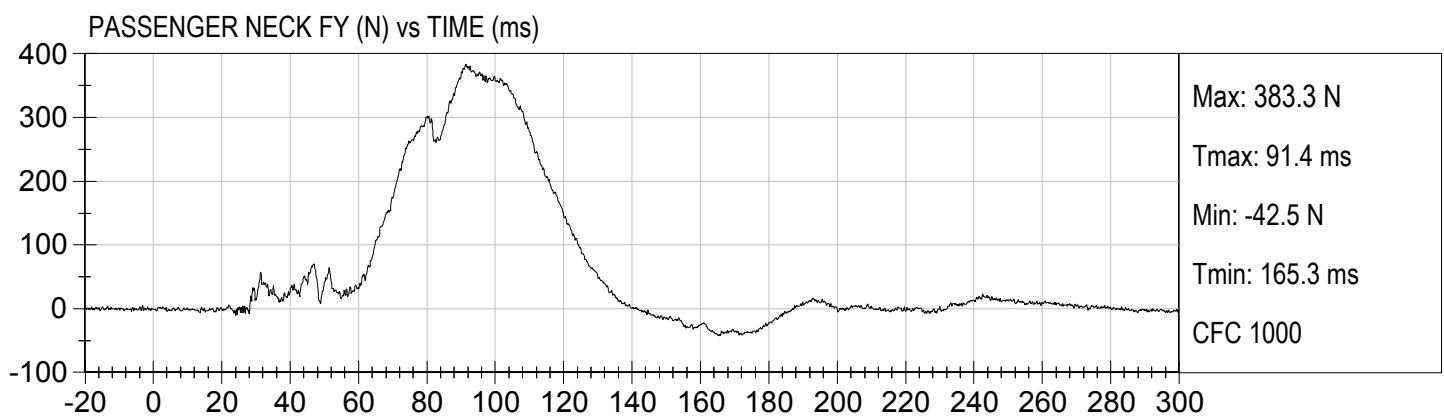
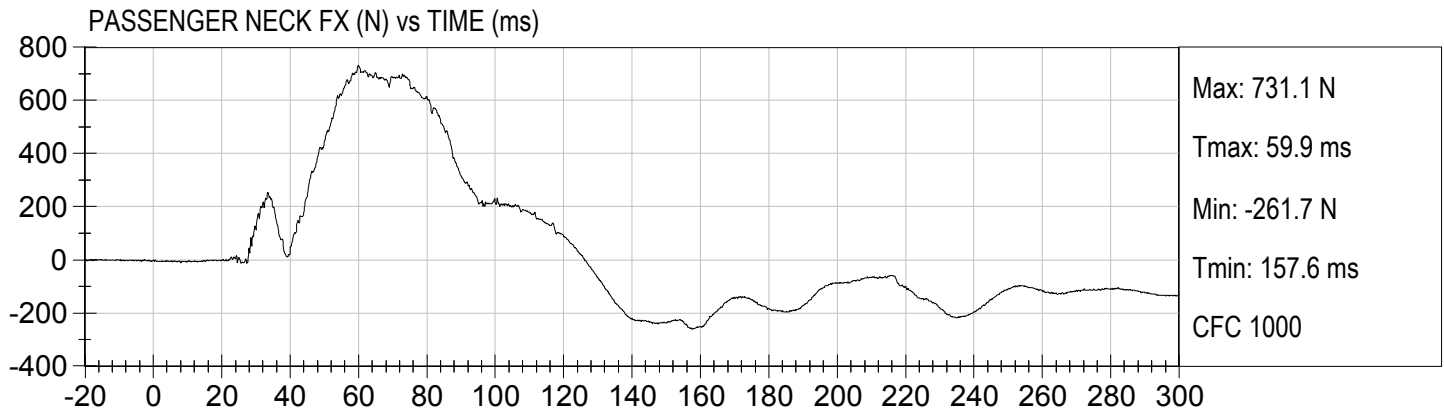
PASSENGER HEAD Z (G's) vs TIME (ms)

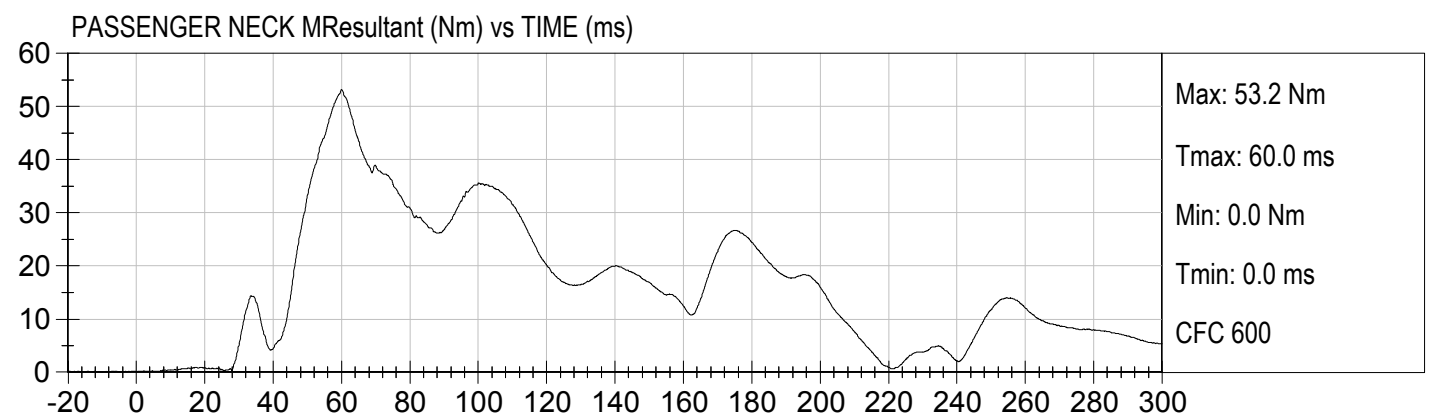
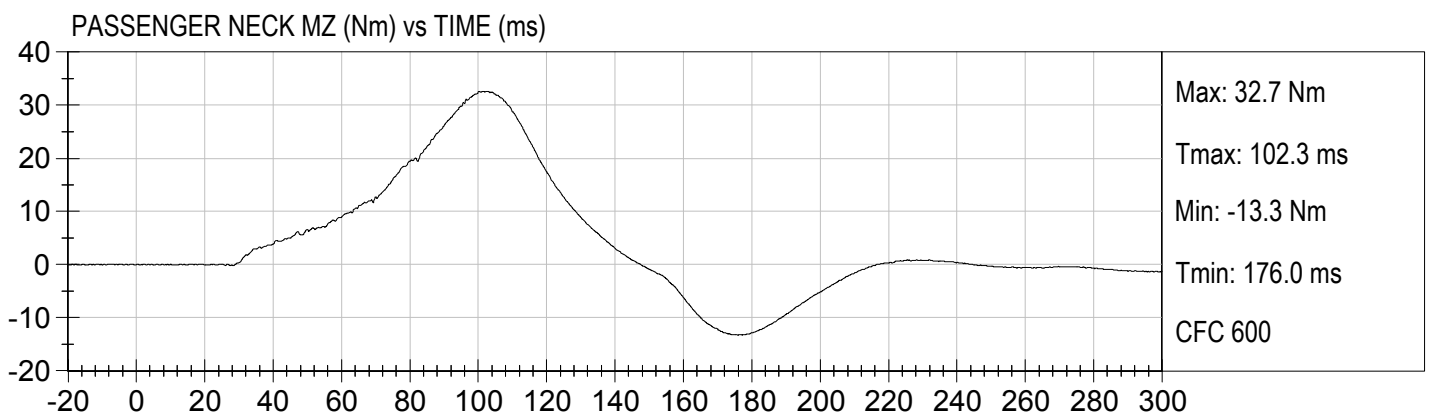
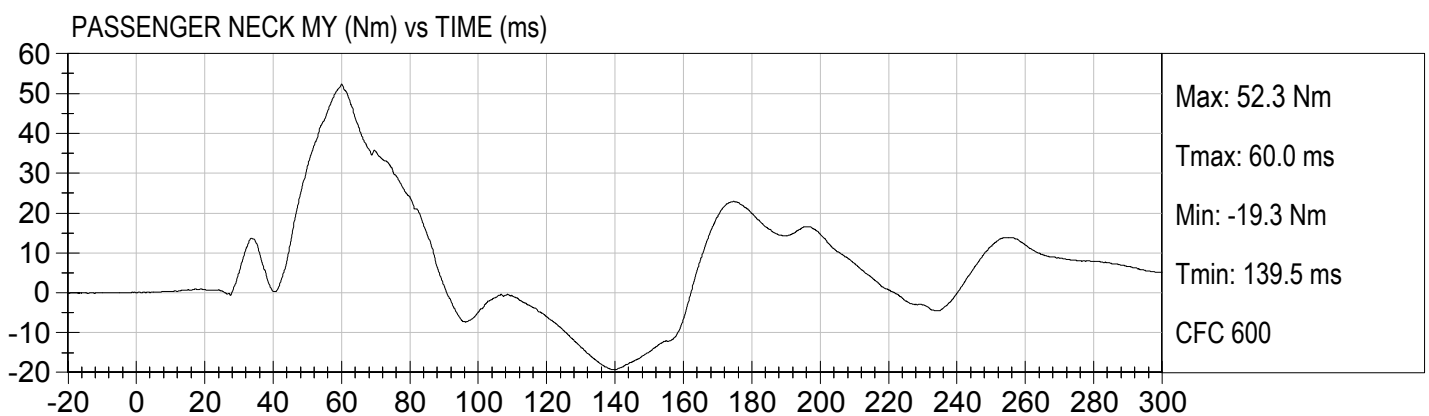
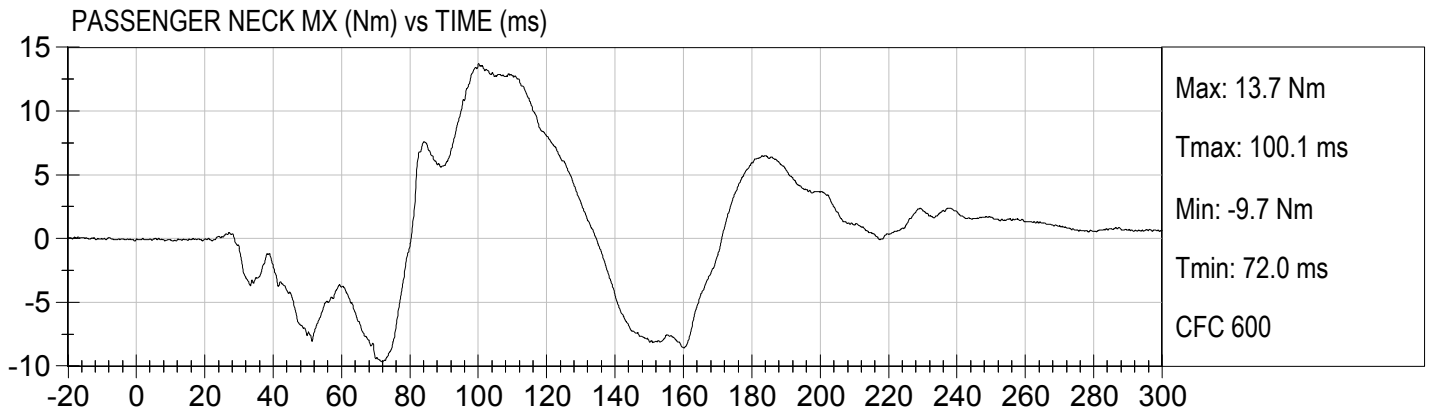


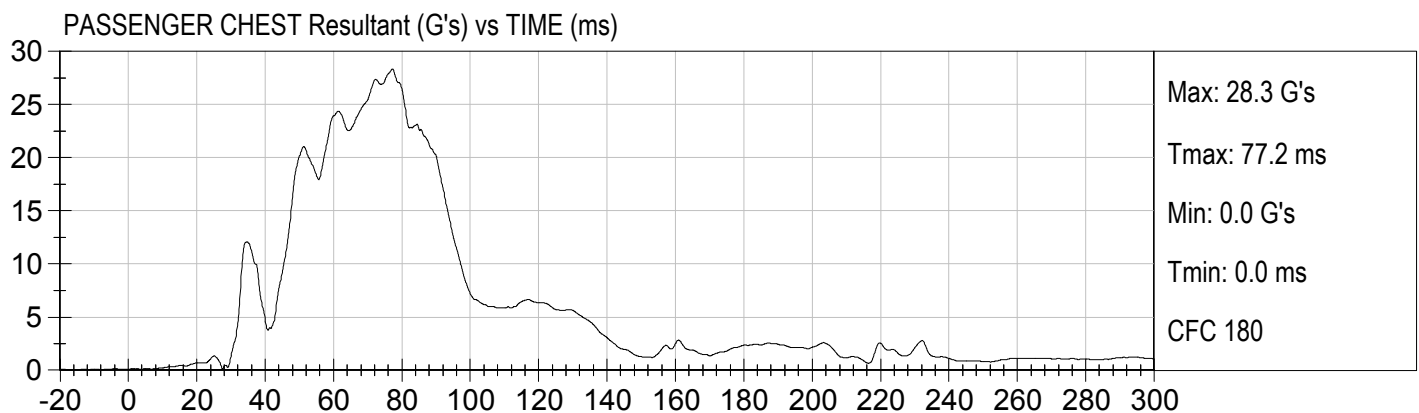
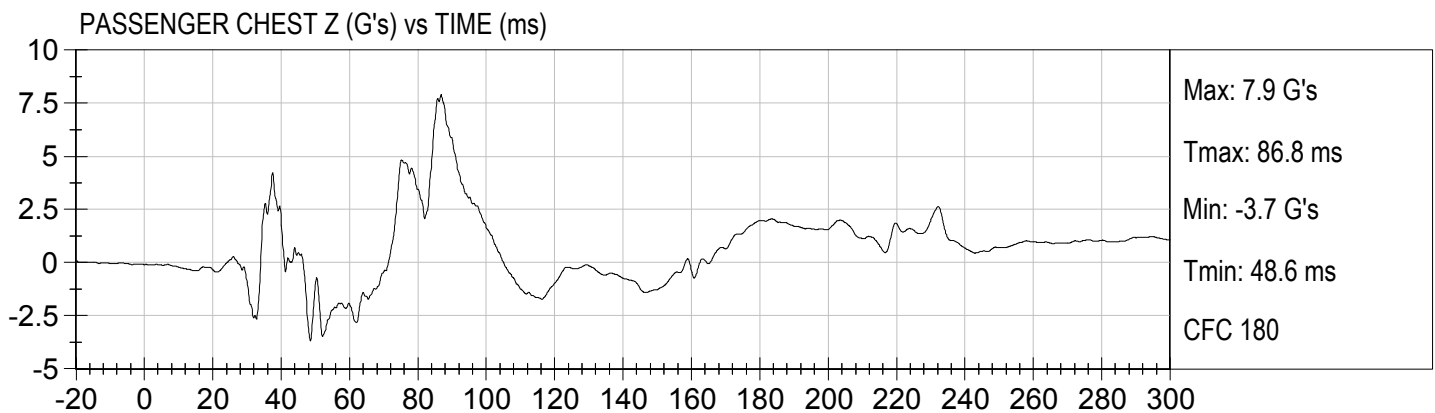
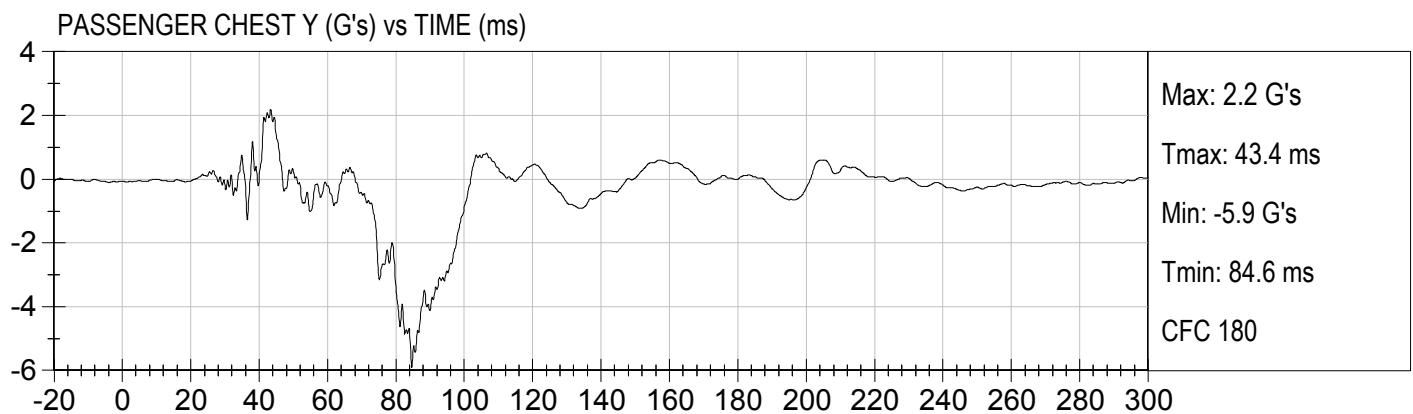
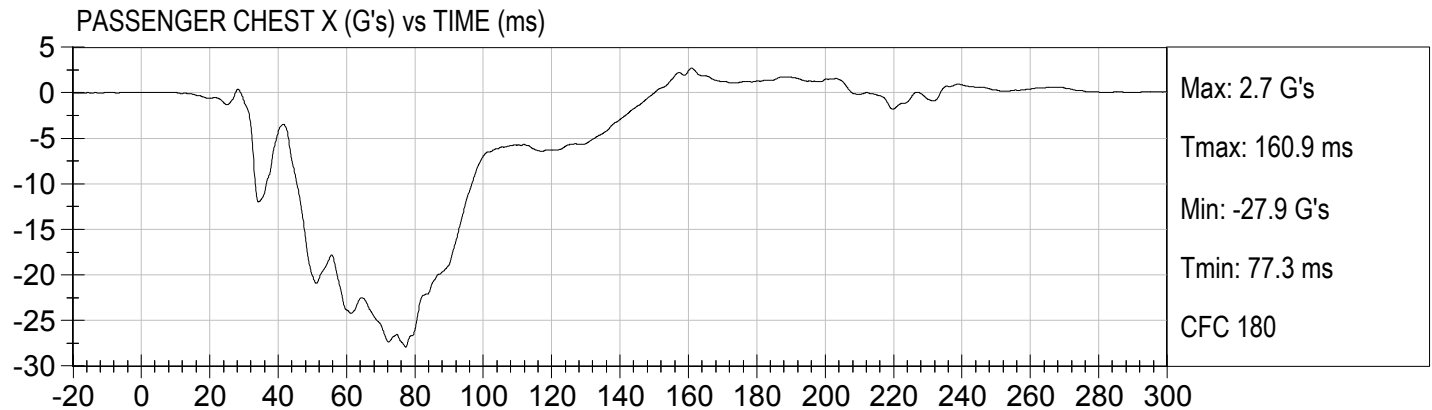
PASSENGER HEAD Resultant (G's) vs TIME (ms)

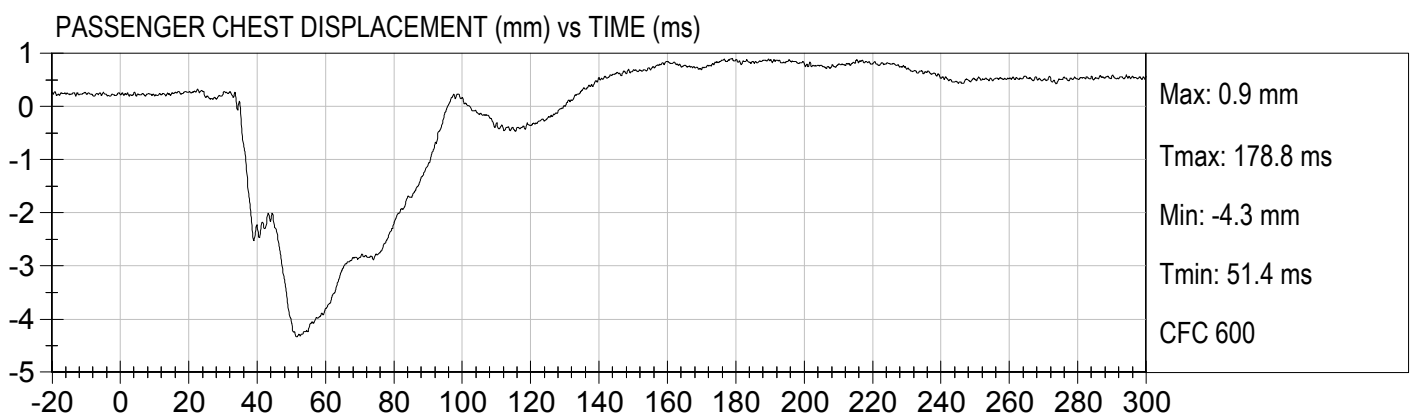
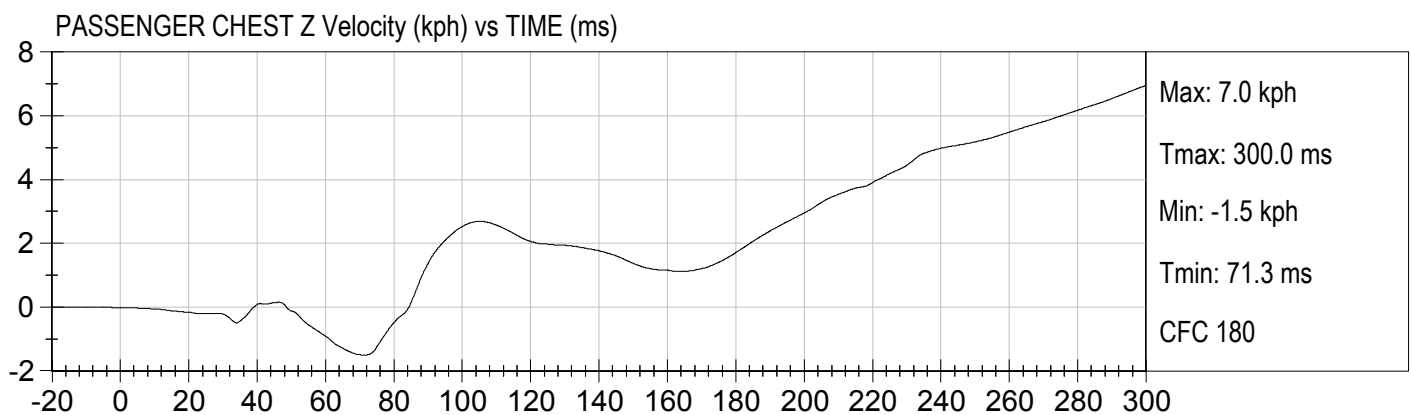
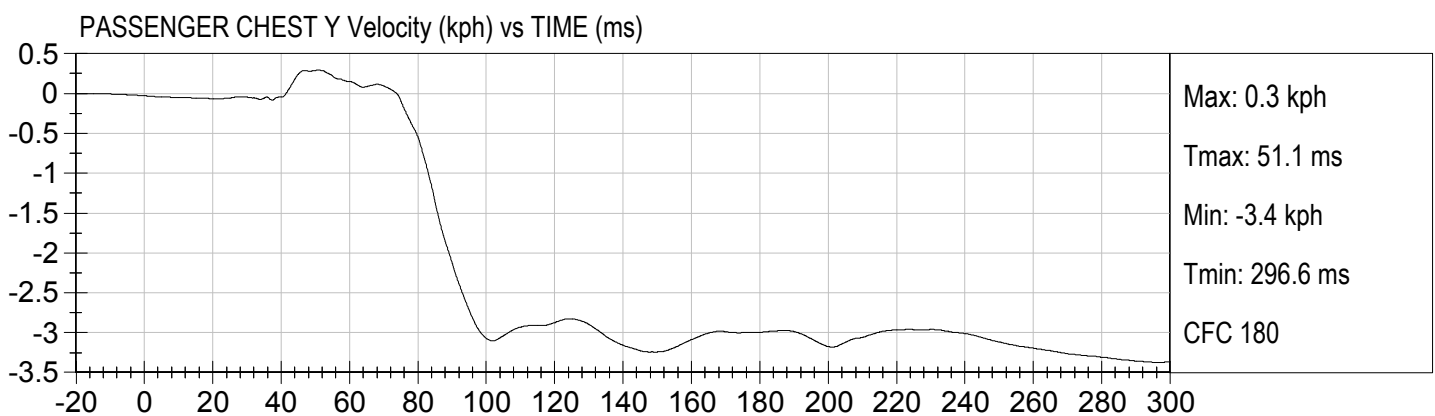
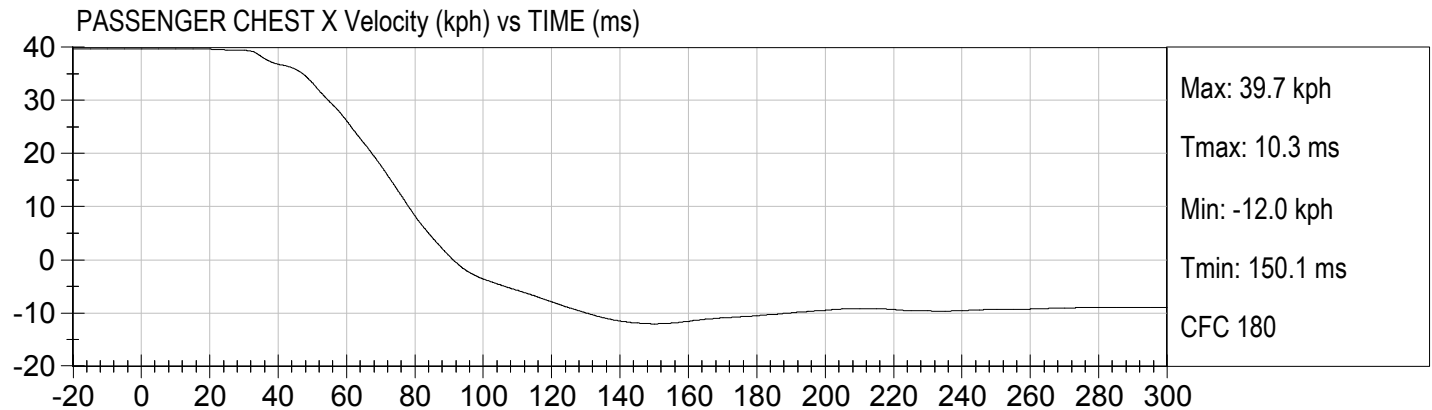


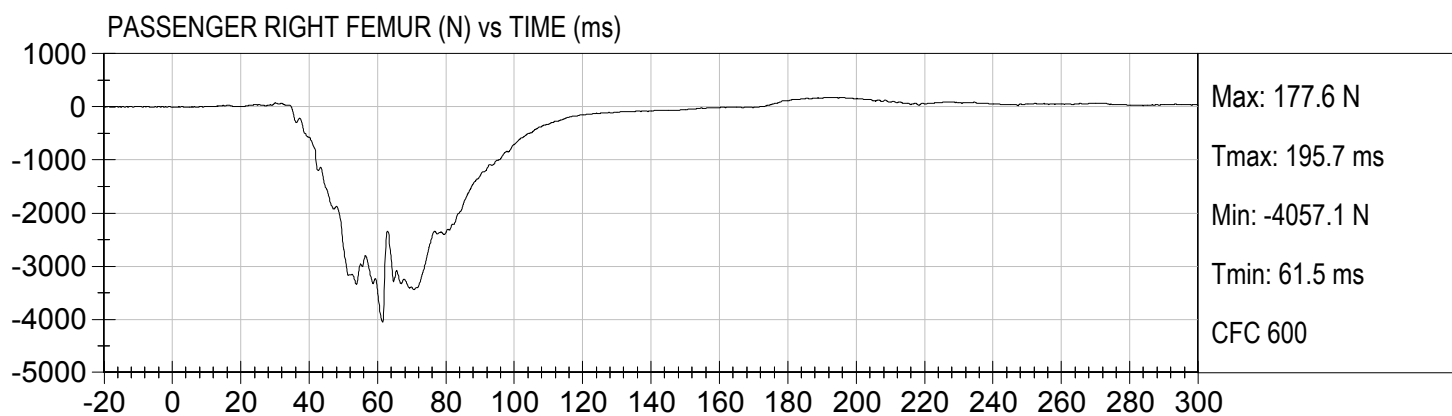
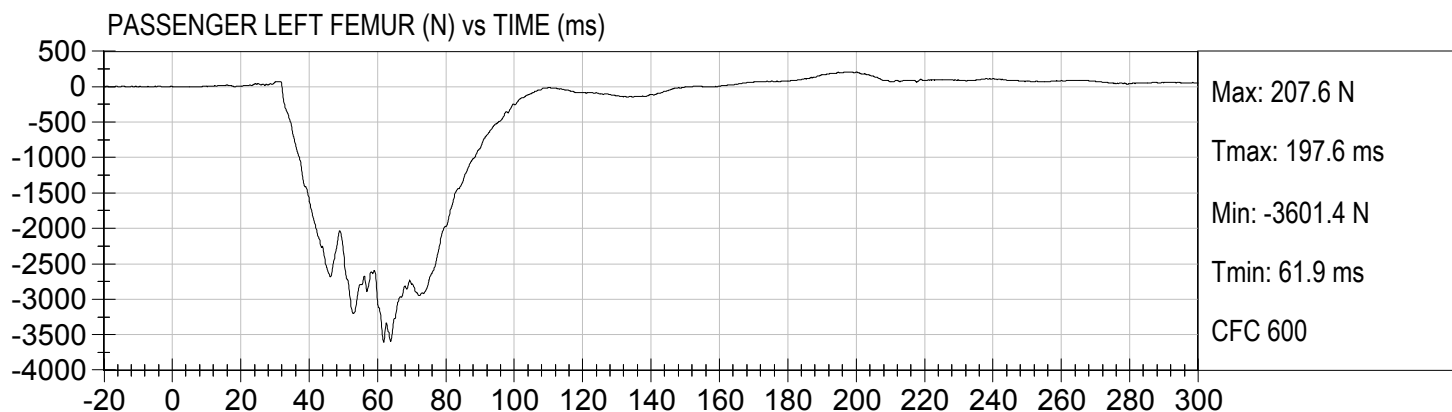


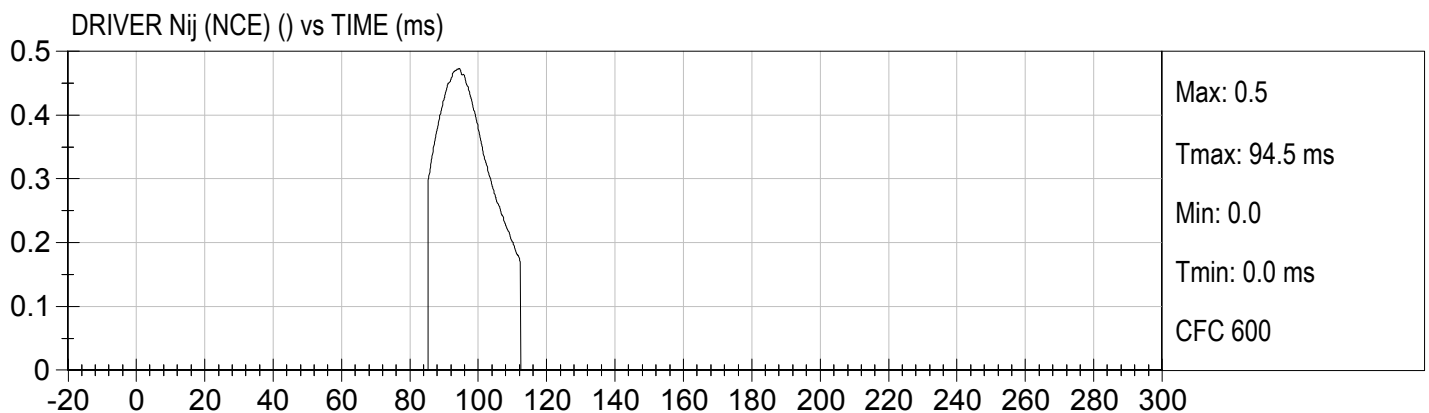
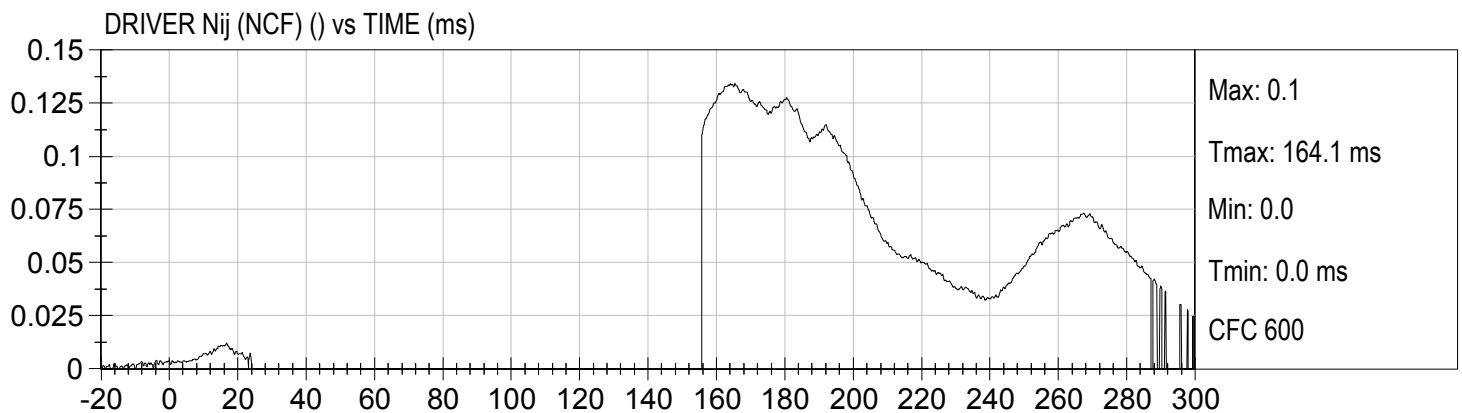
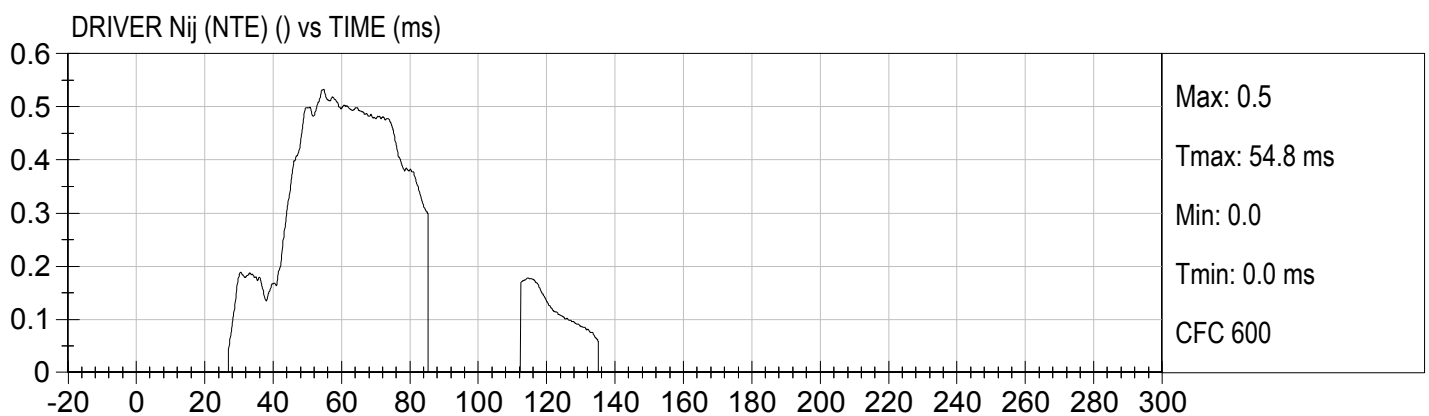
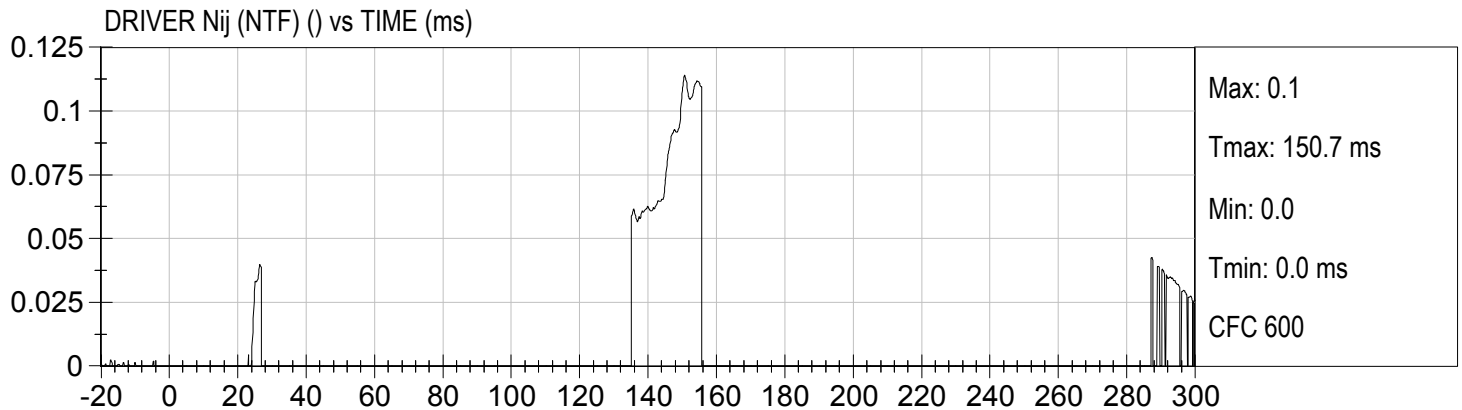


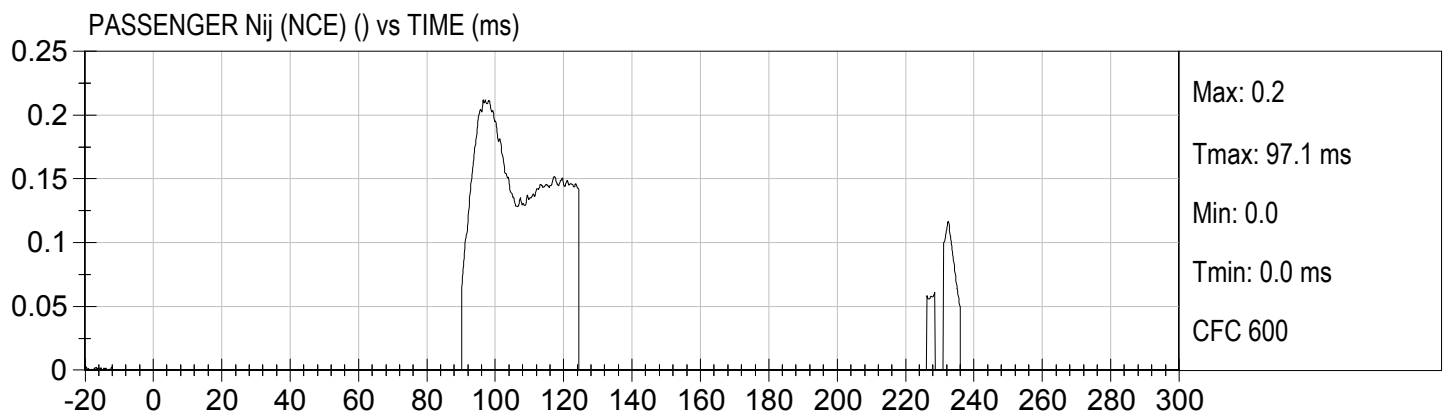
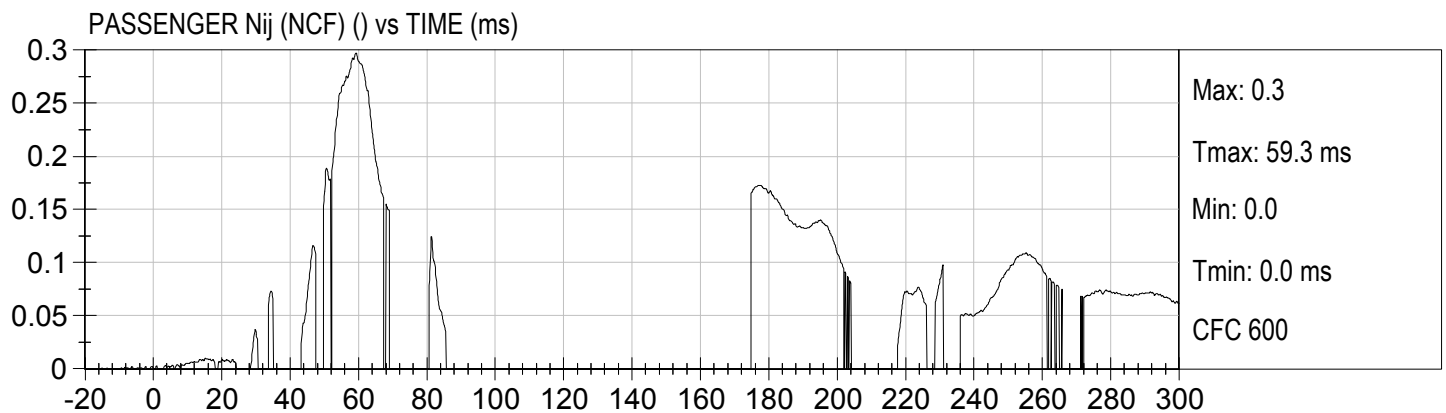
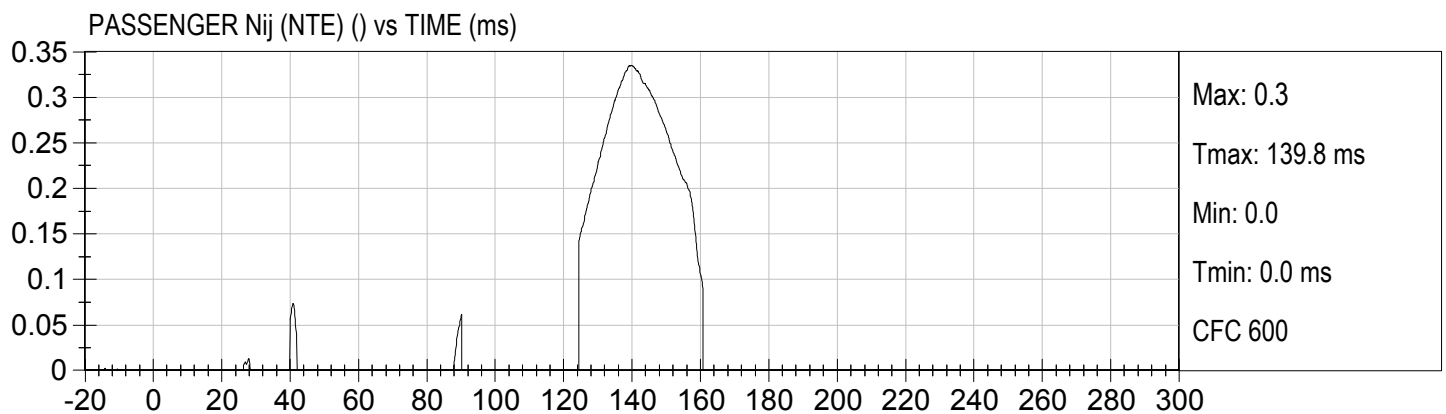
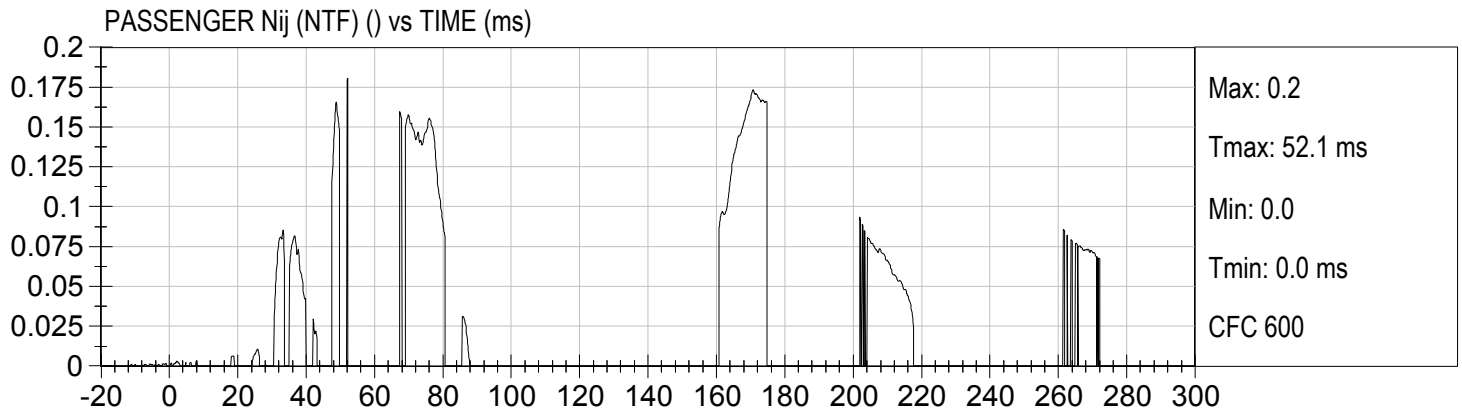


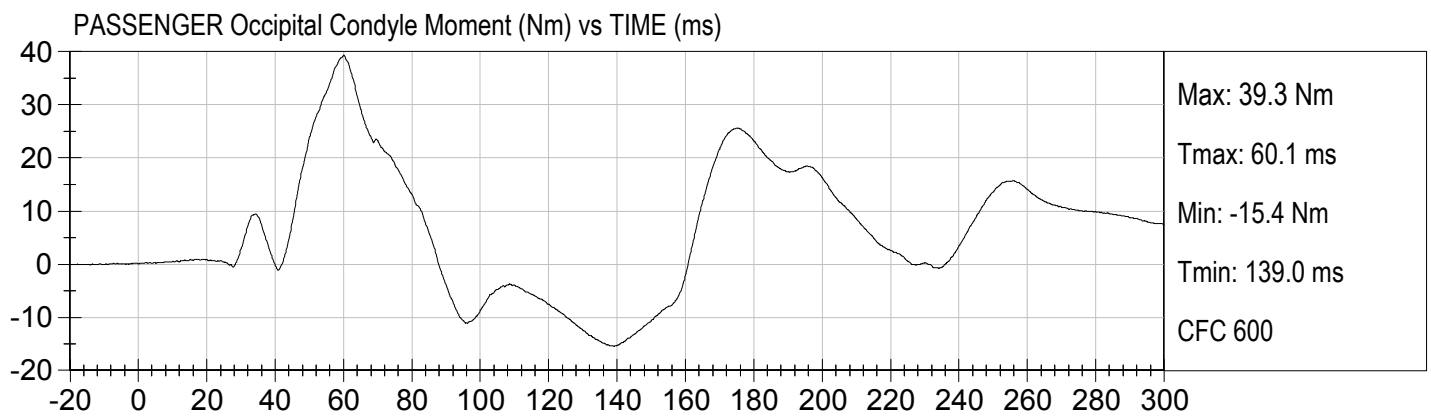
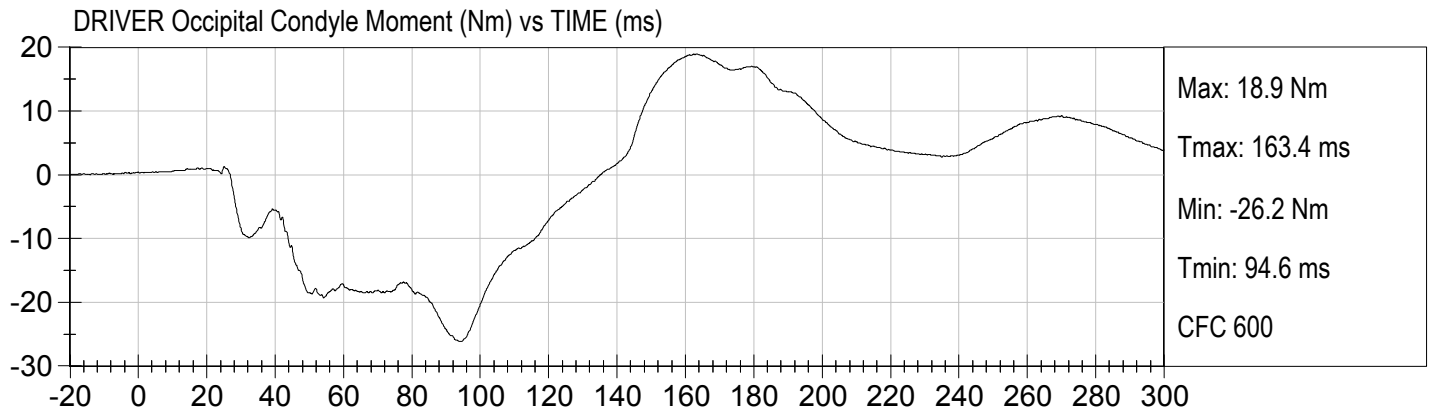


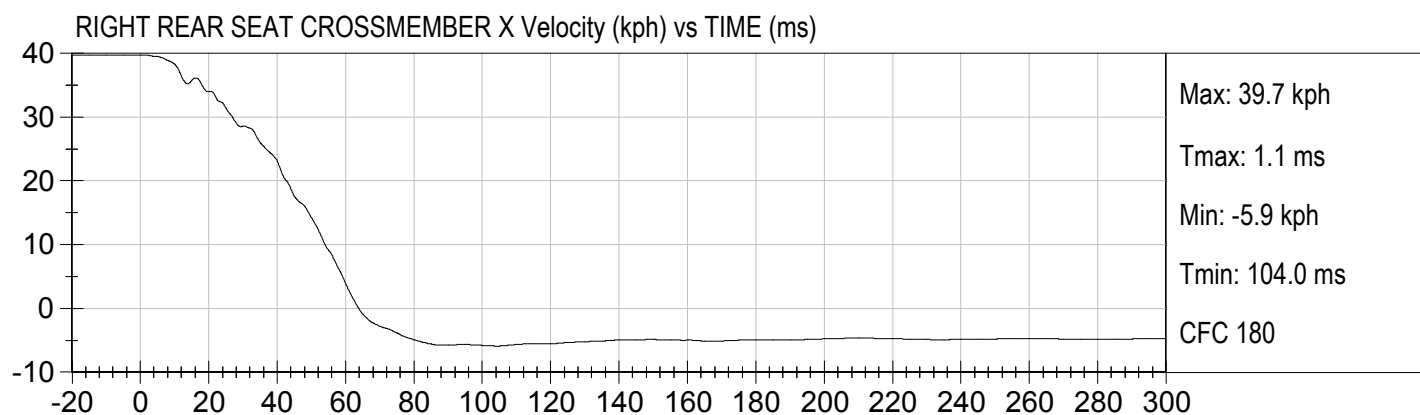
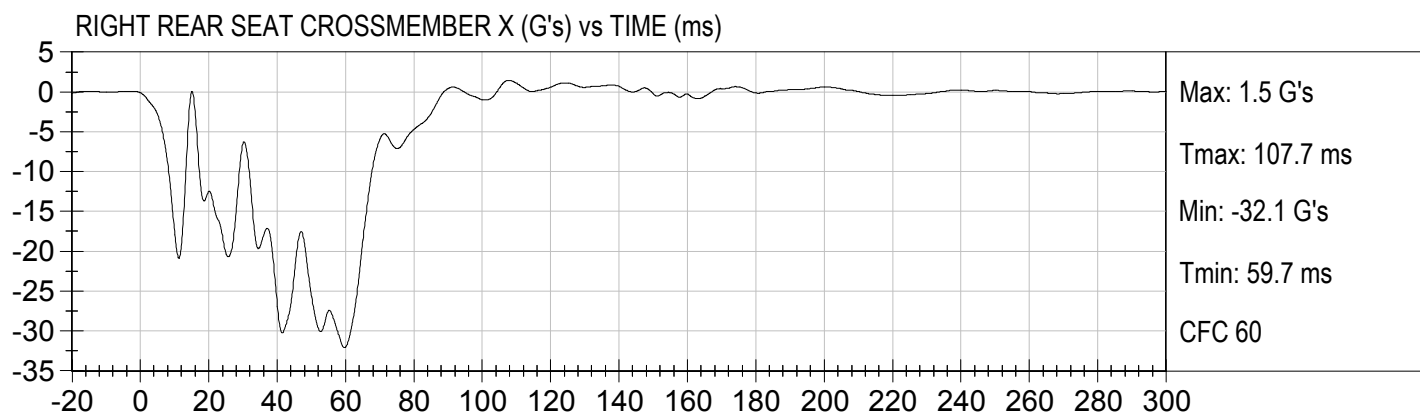
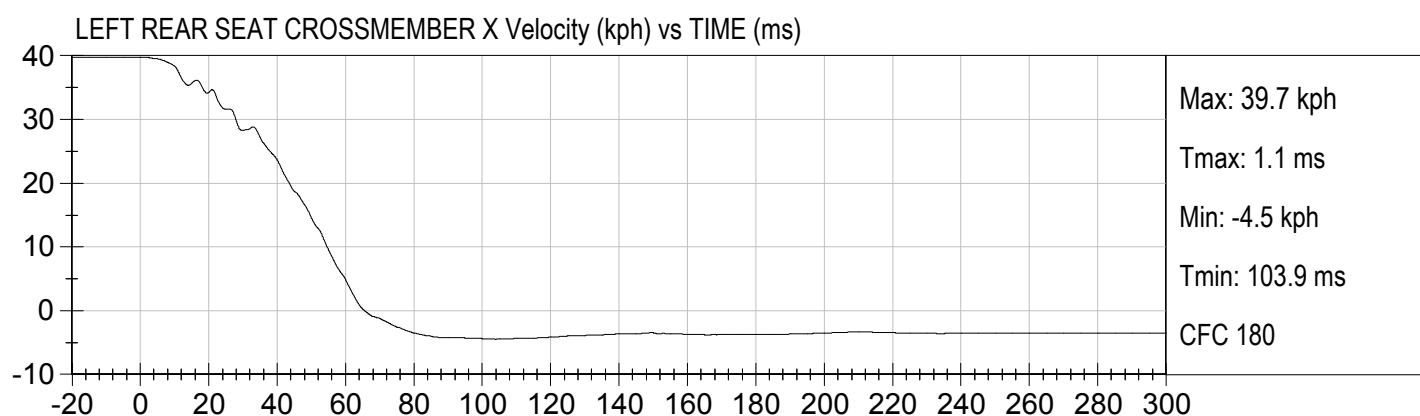
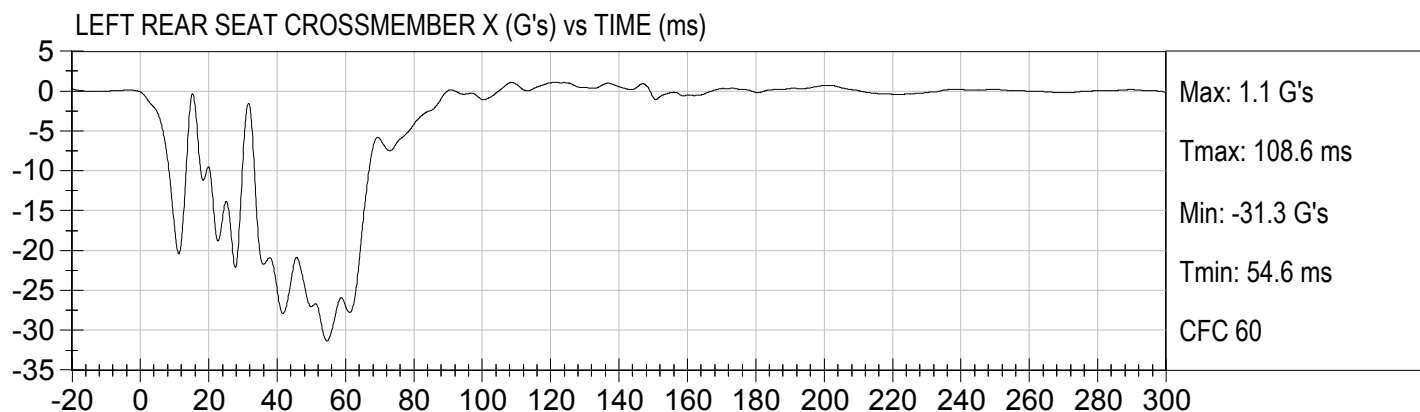


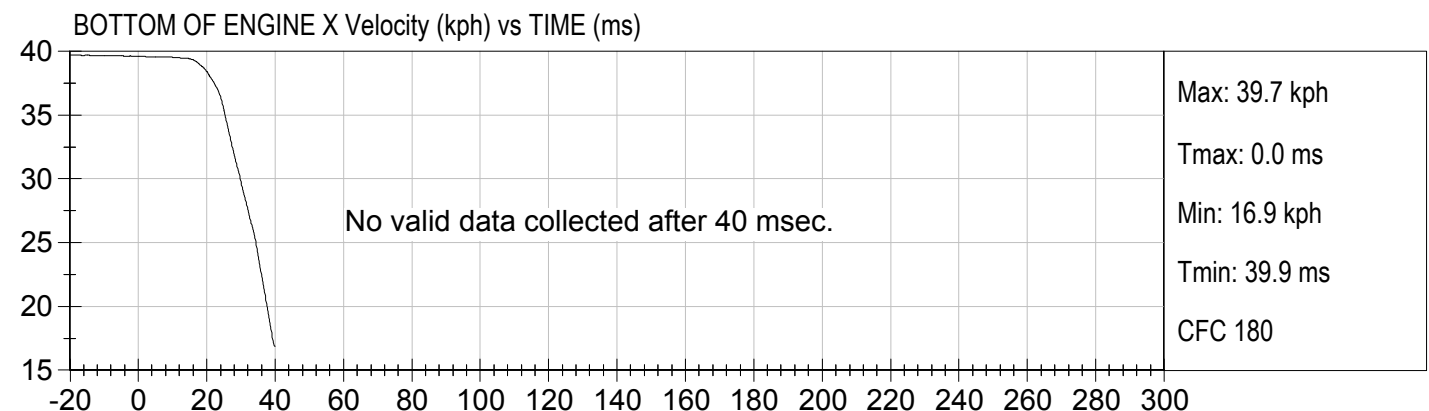
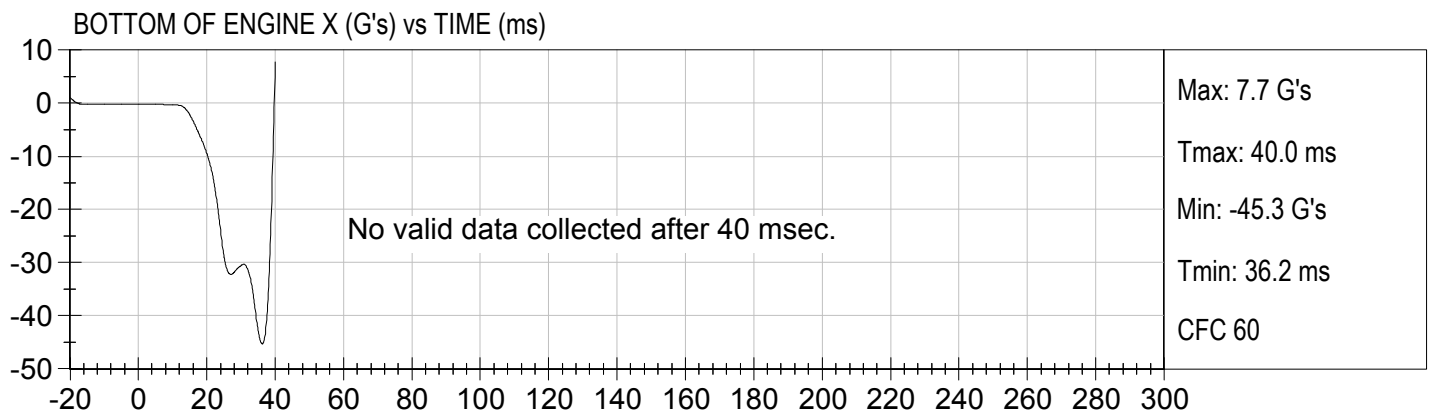
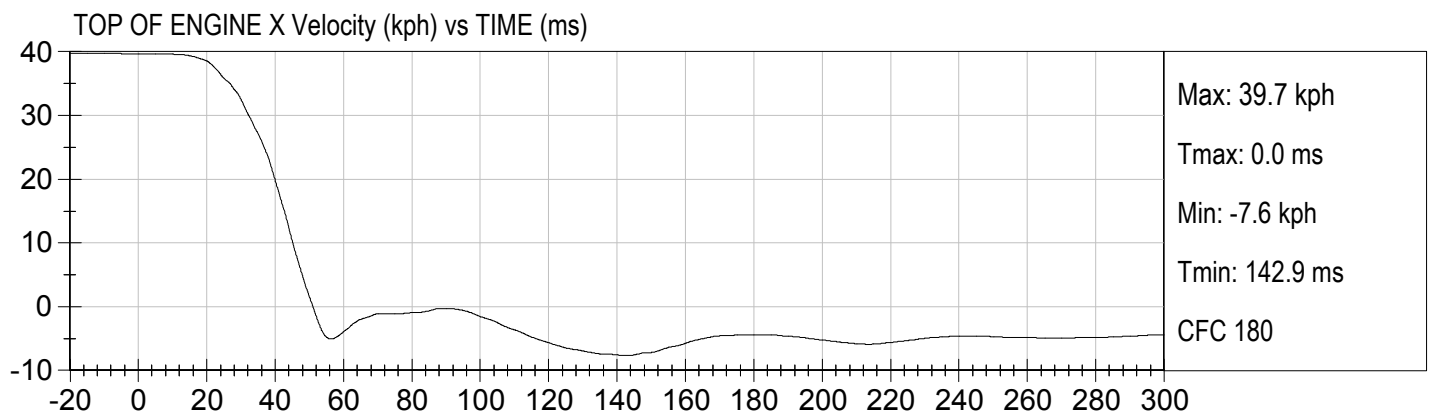
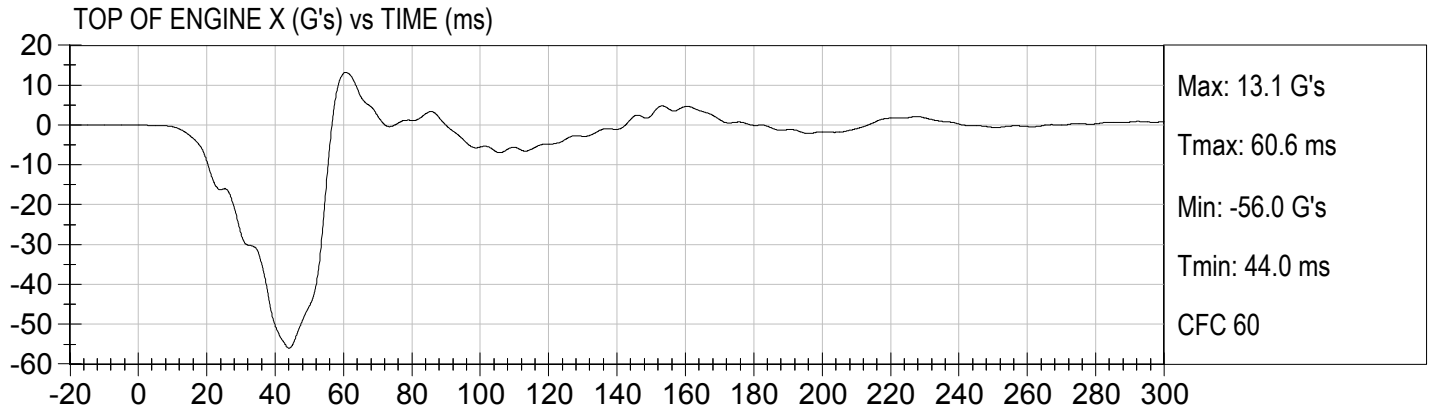


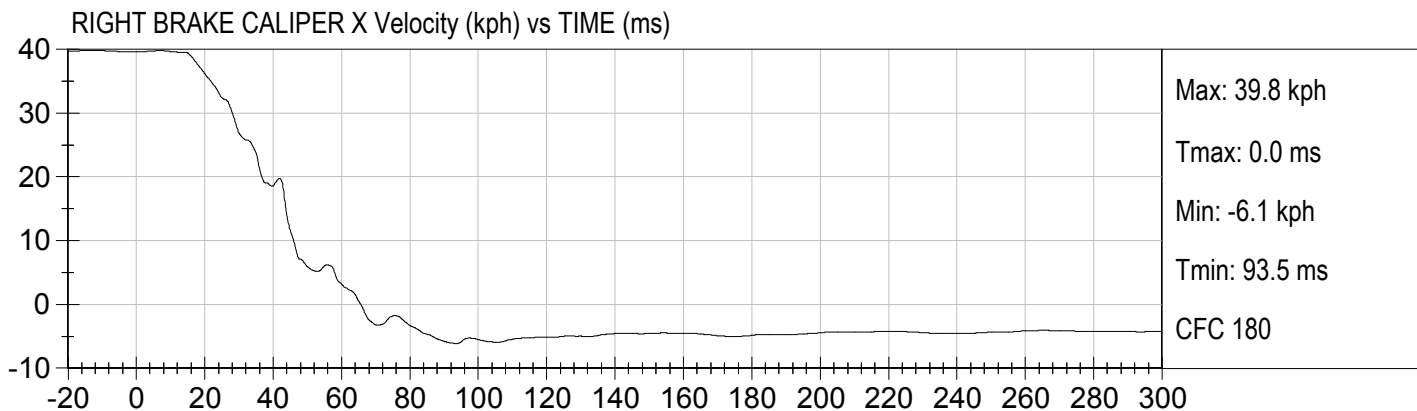
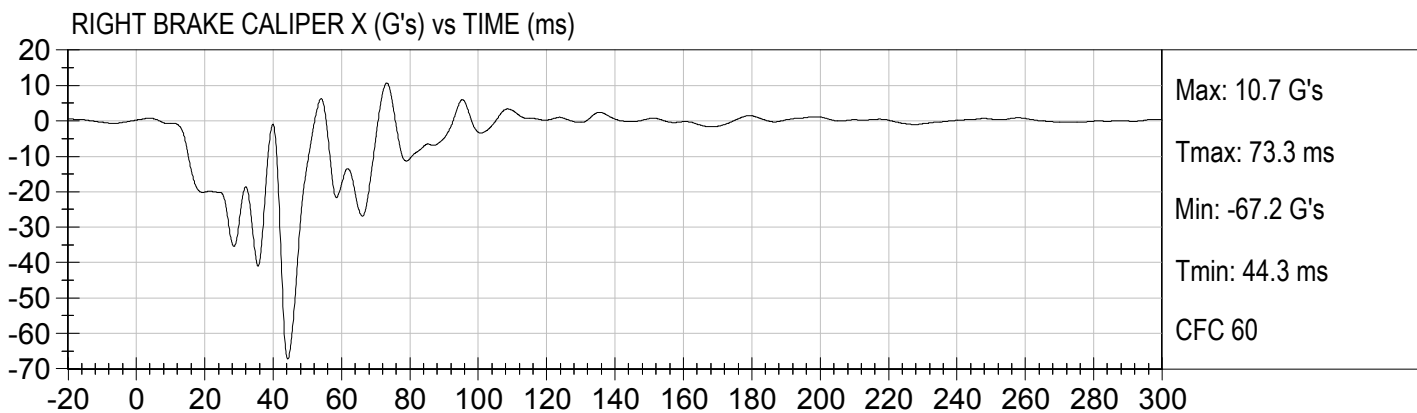
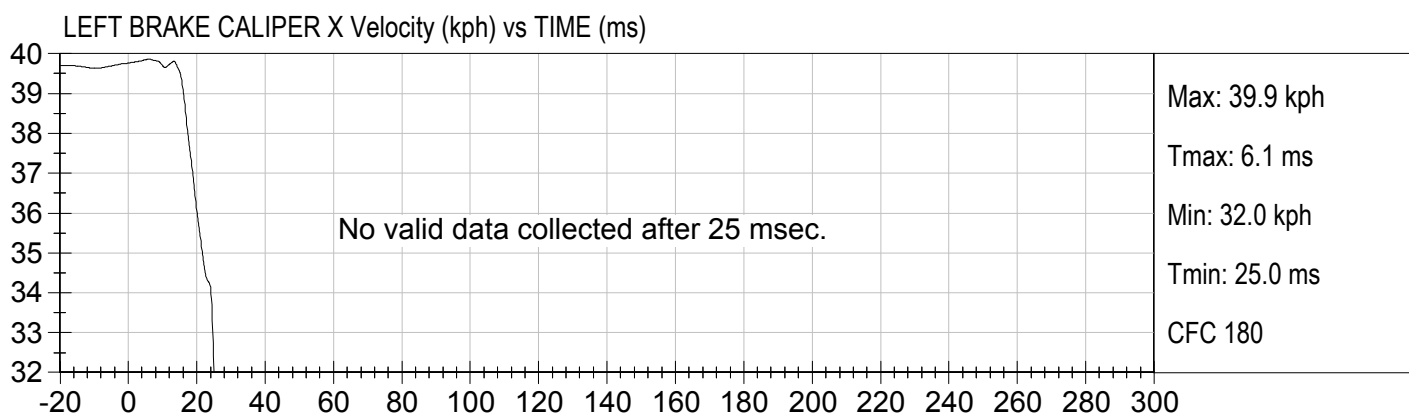
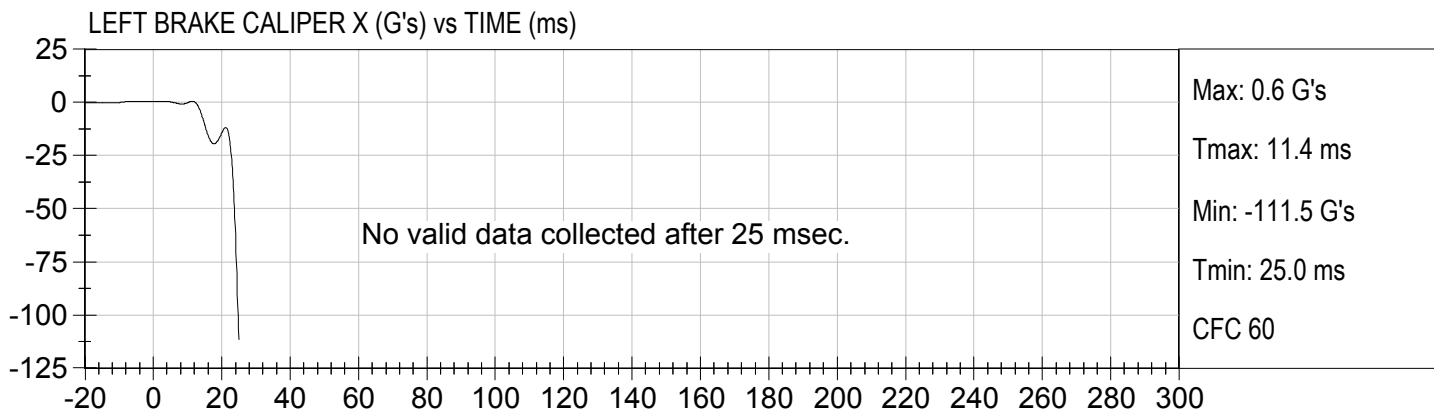


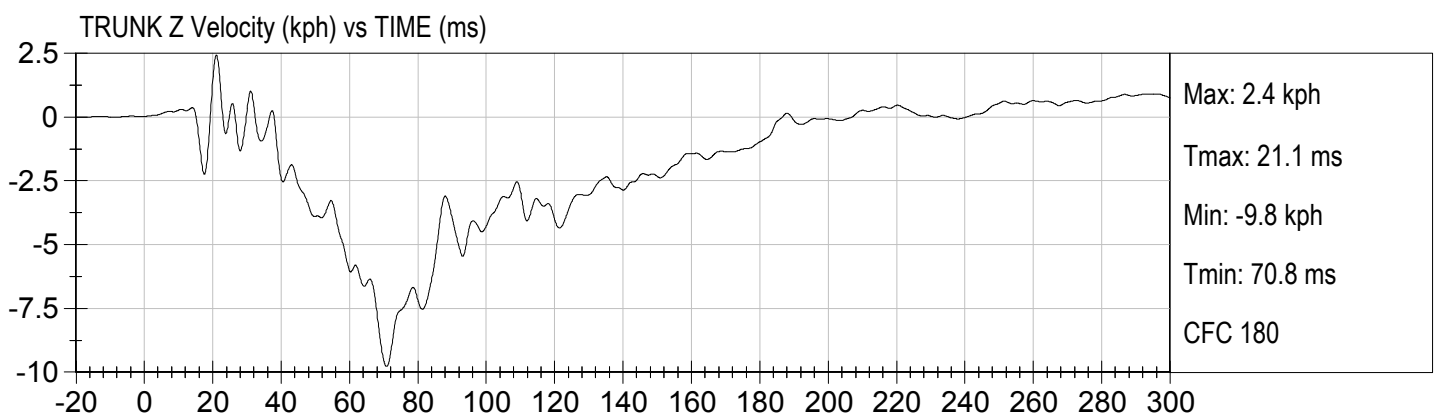
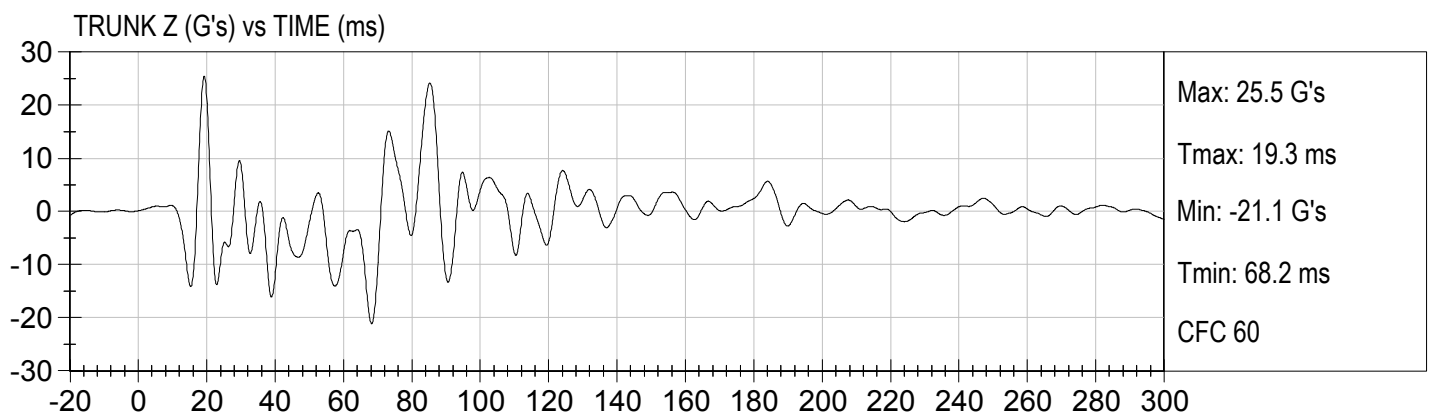
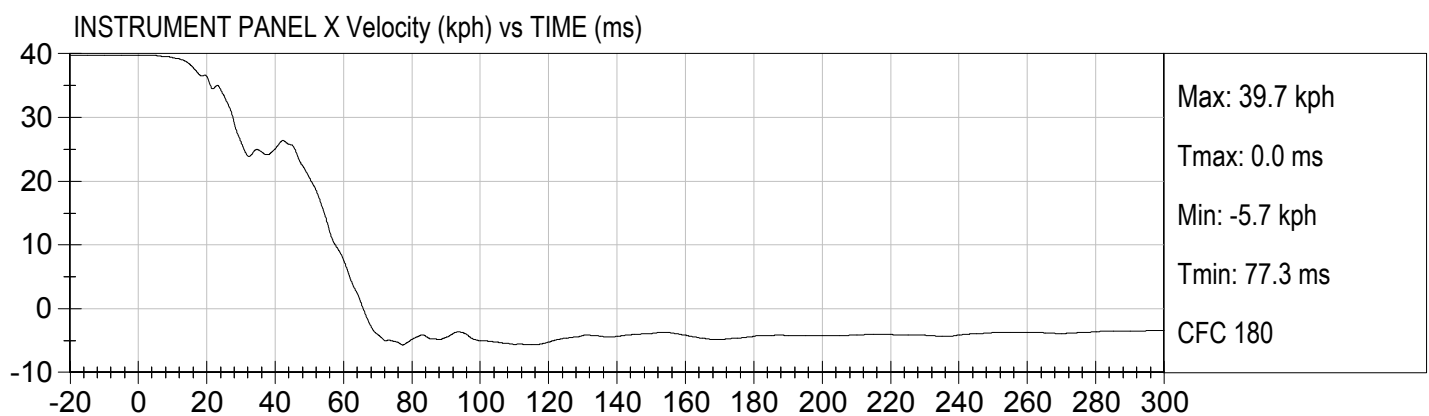
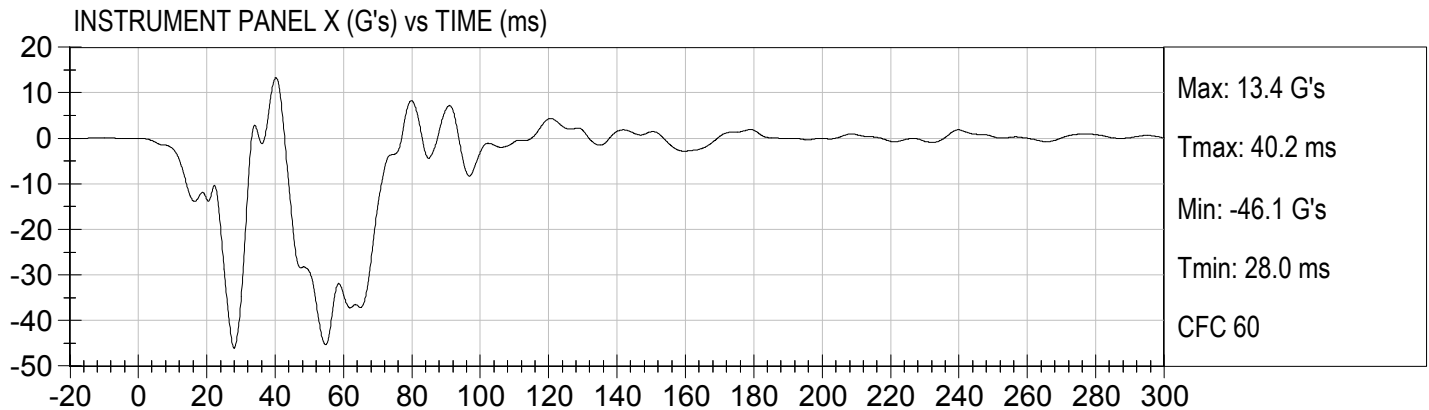












APPENDIX B

LOW RISK TEST DATA

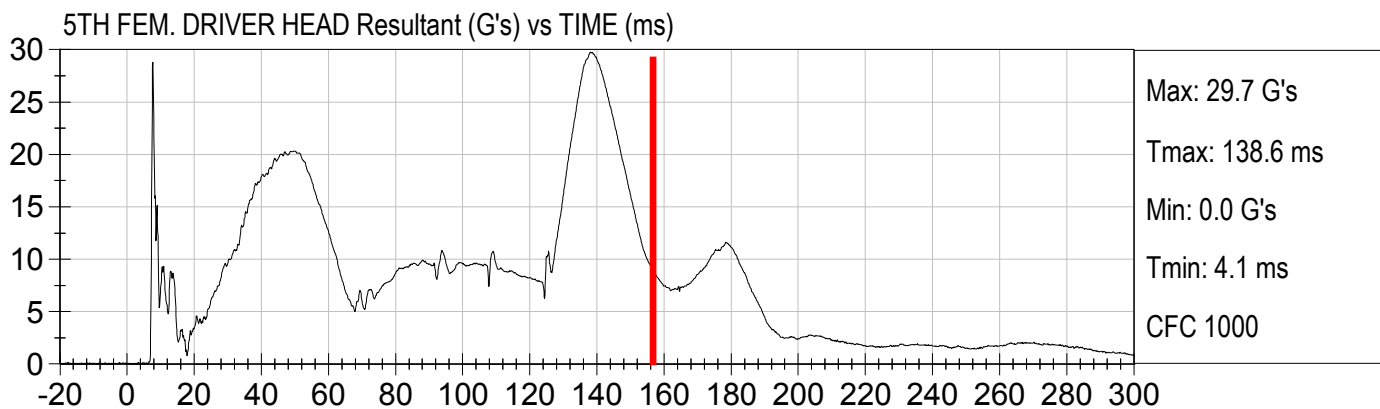
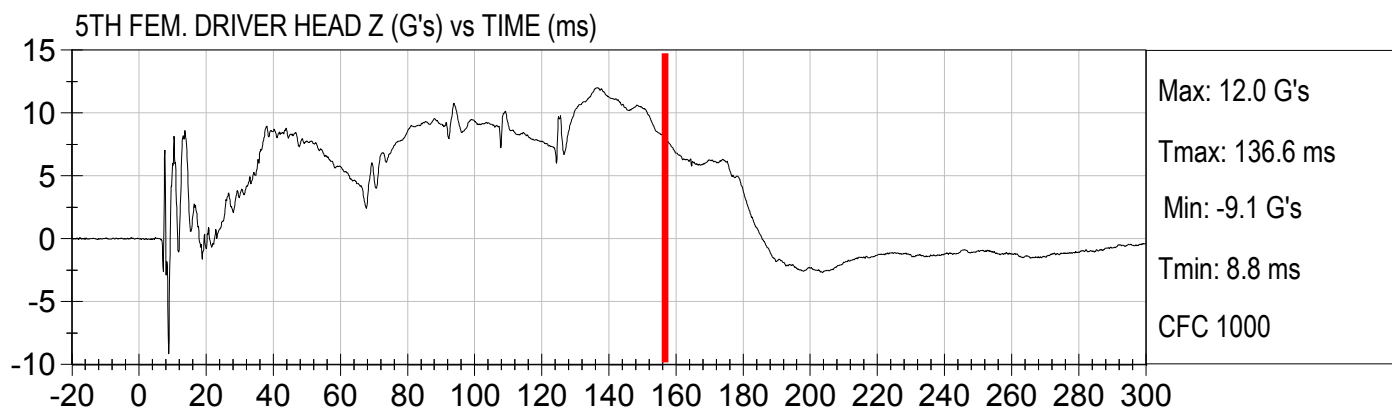
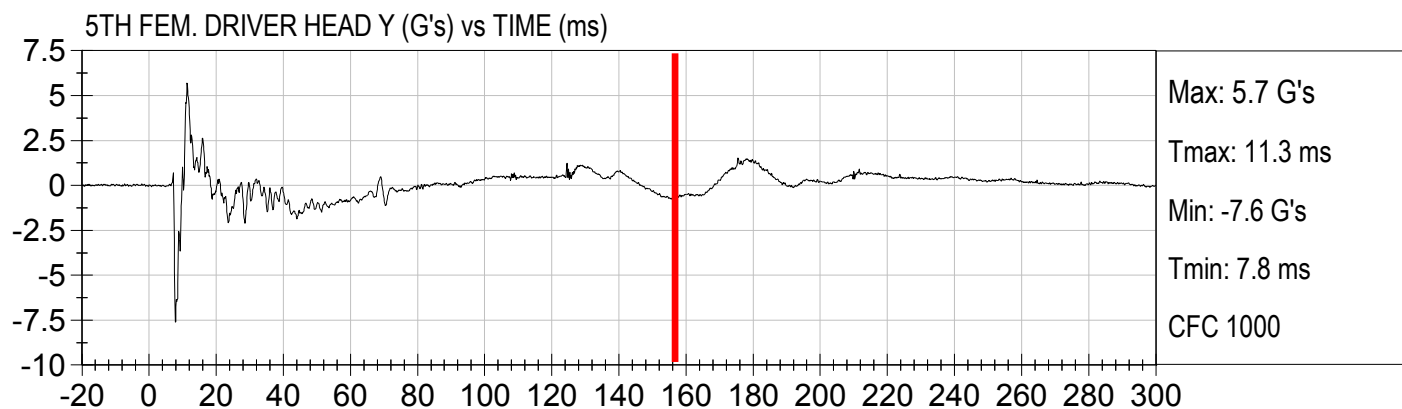
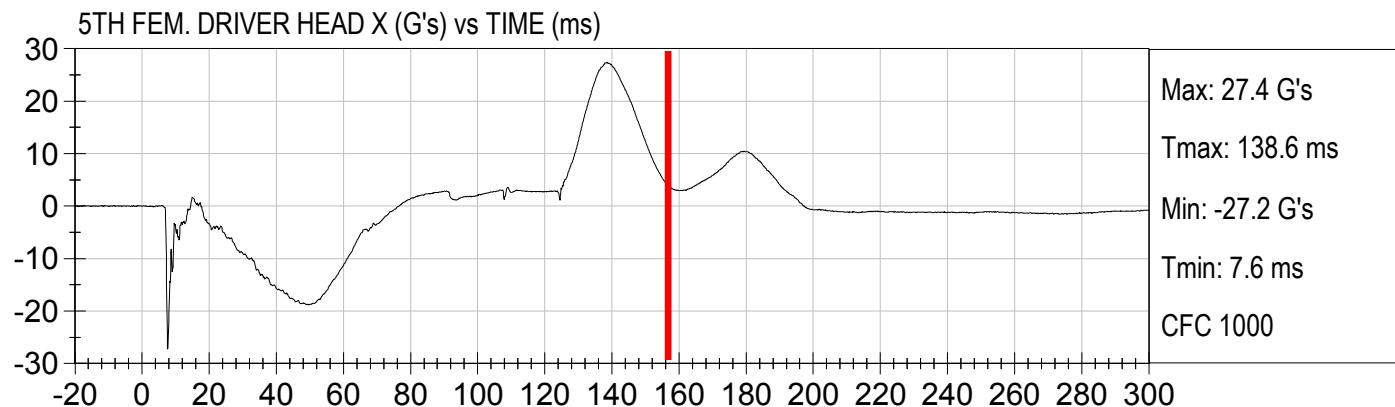
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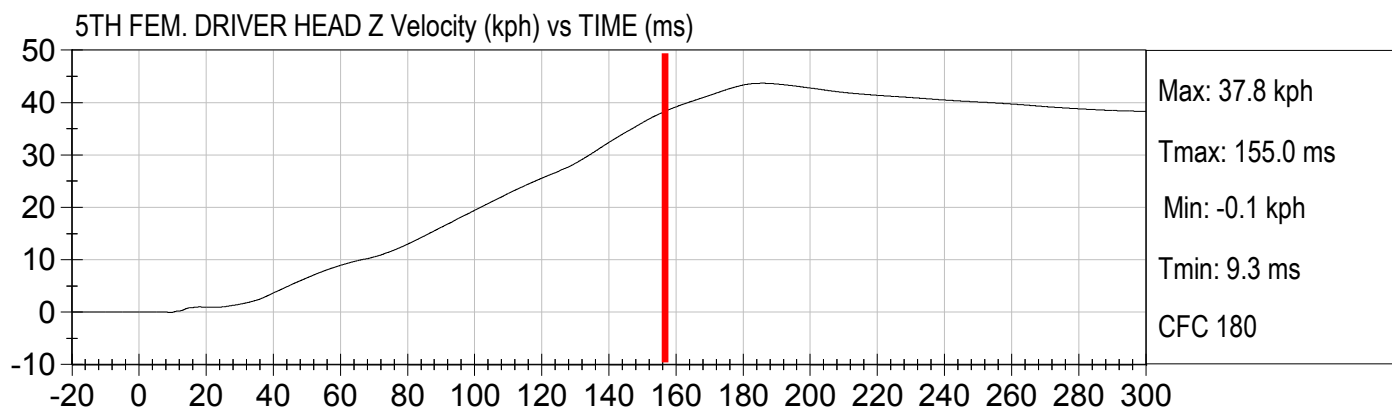
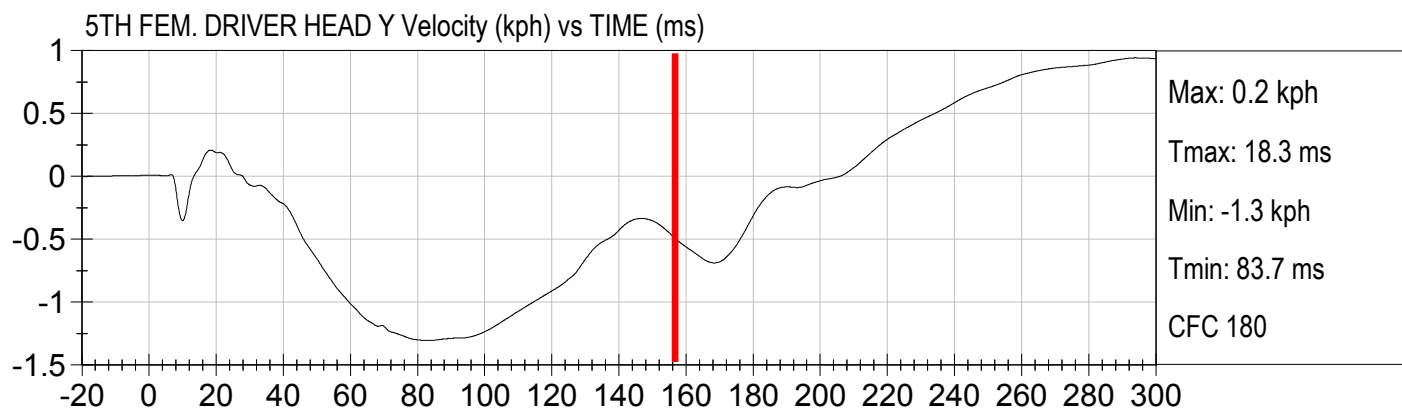
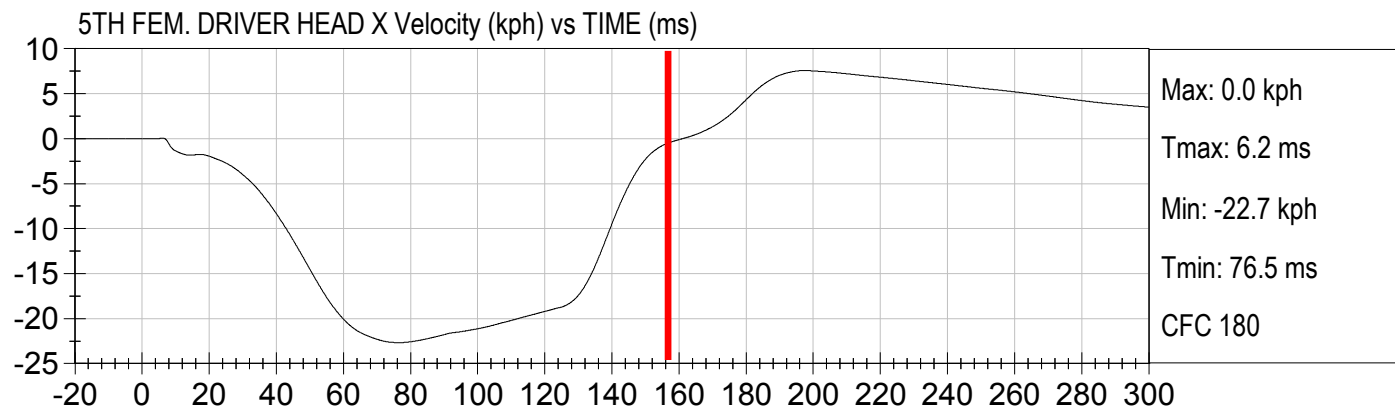


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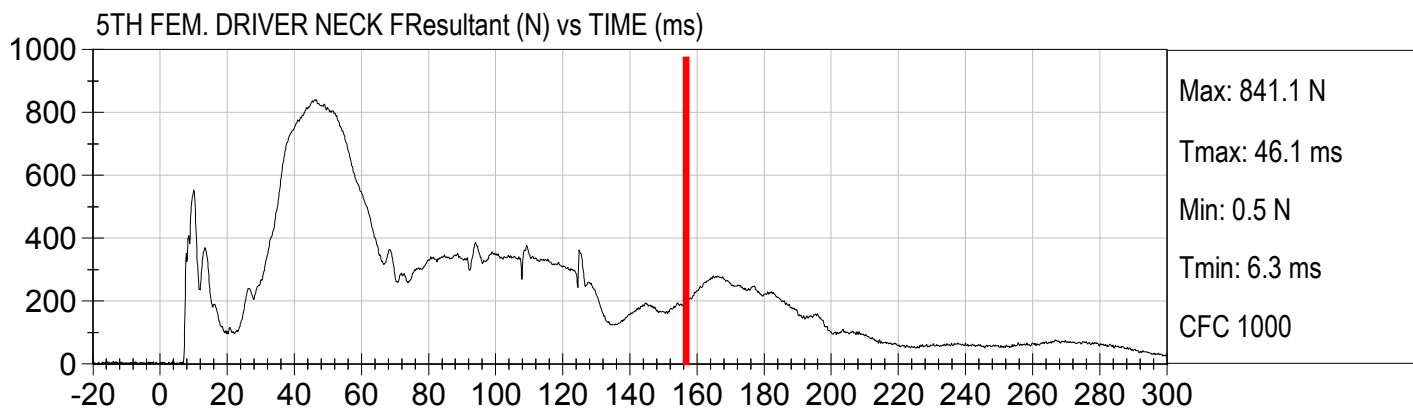
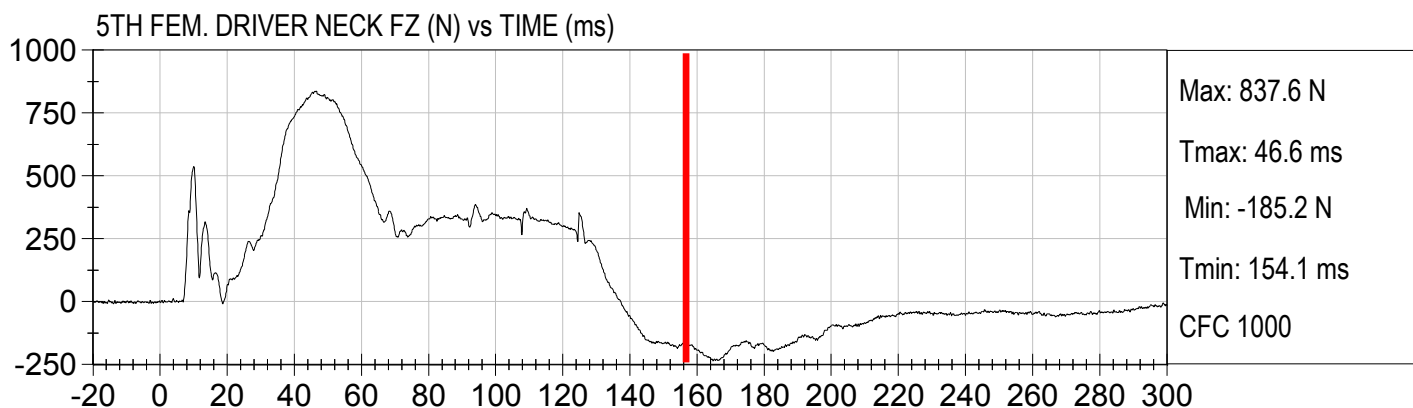
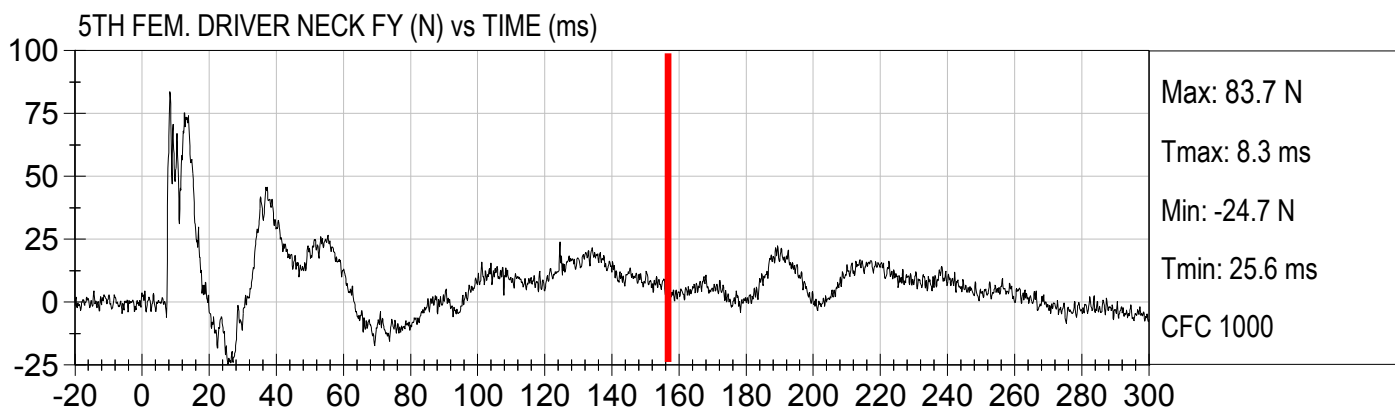
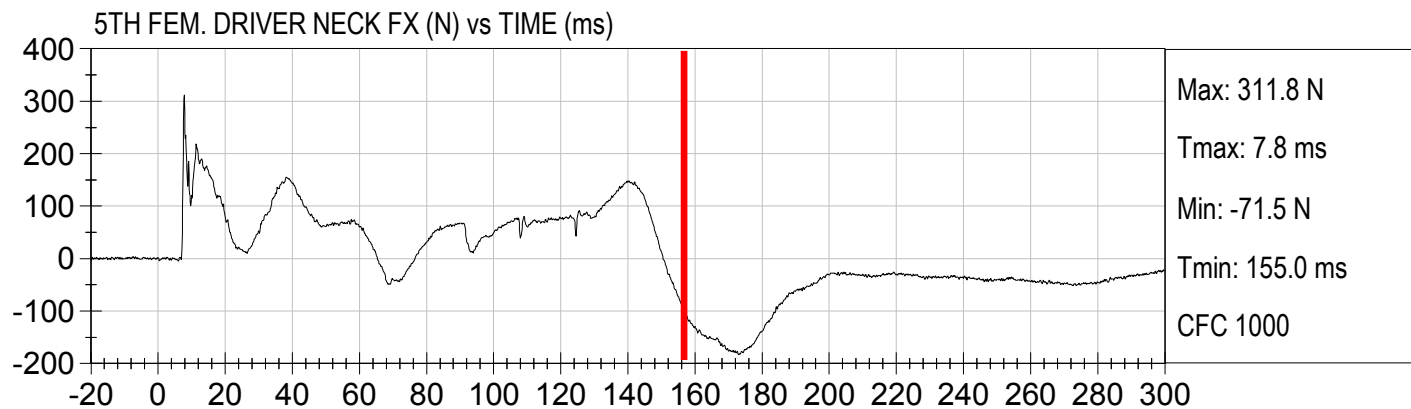


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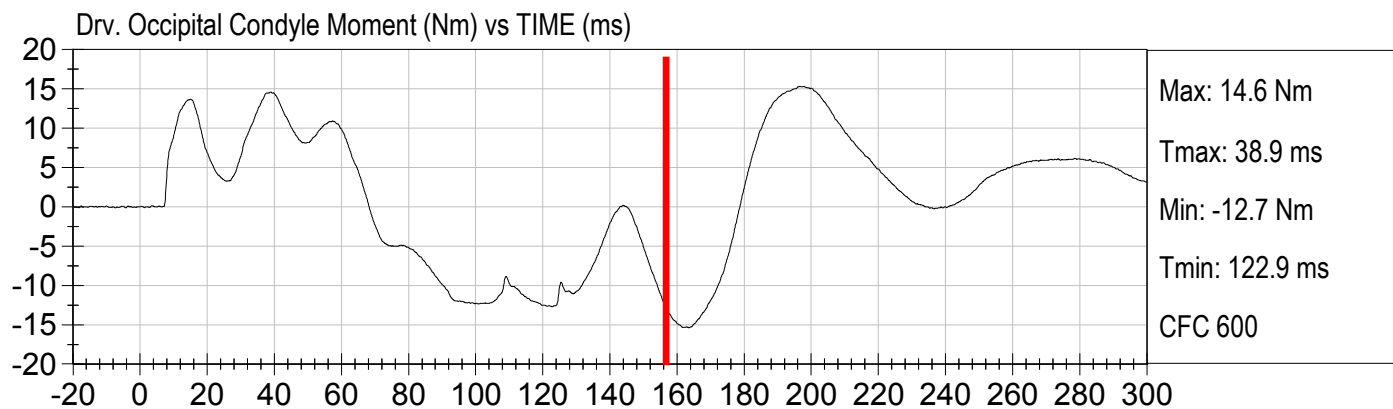
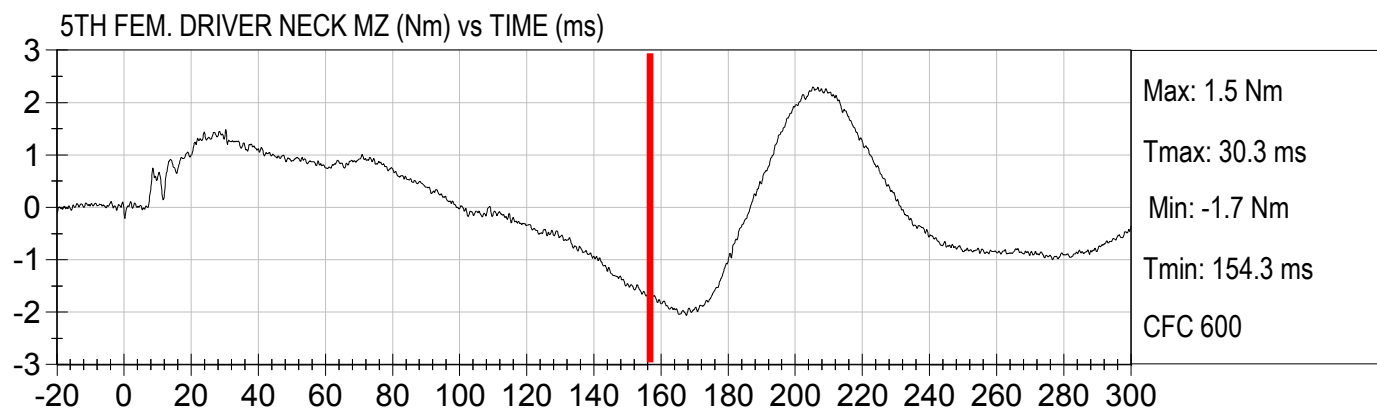
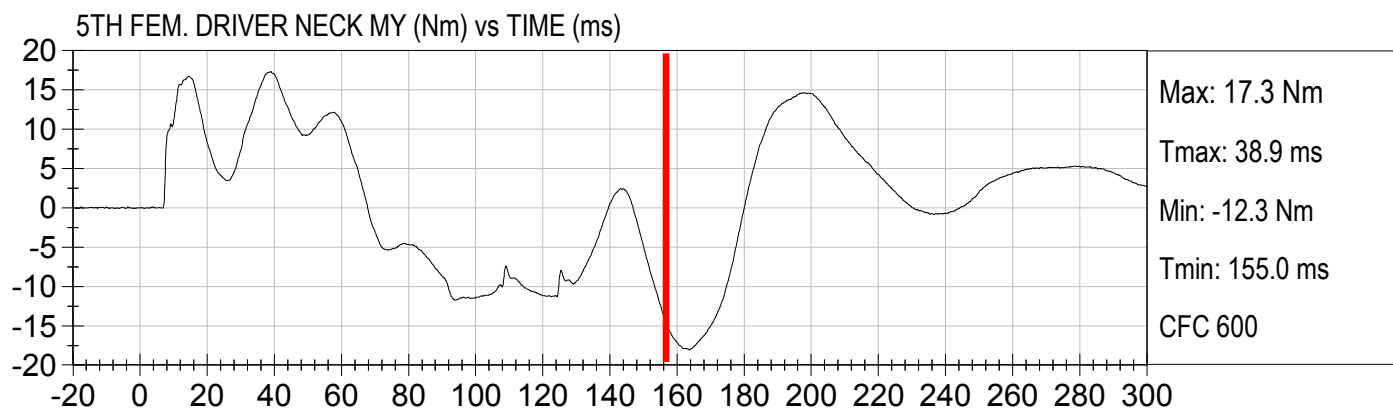
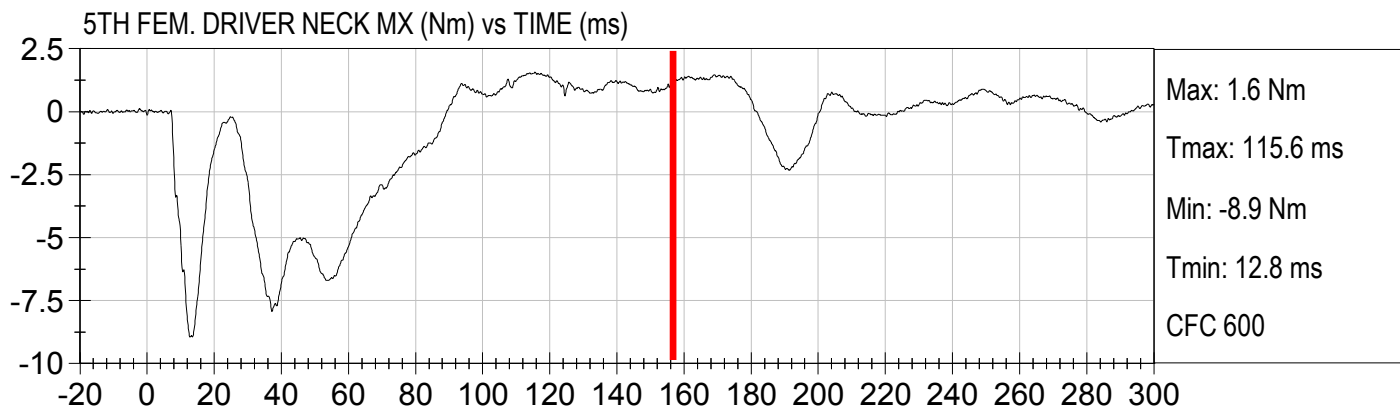


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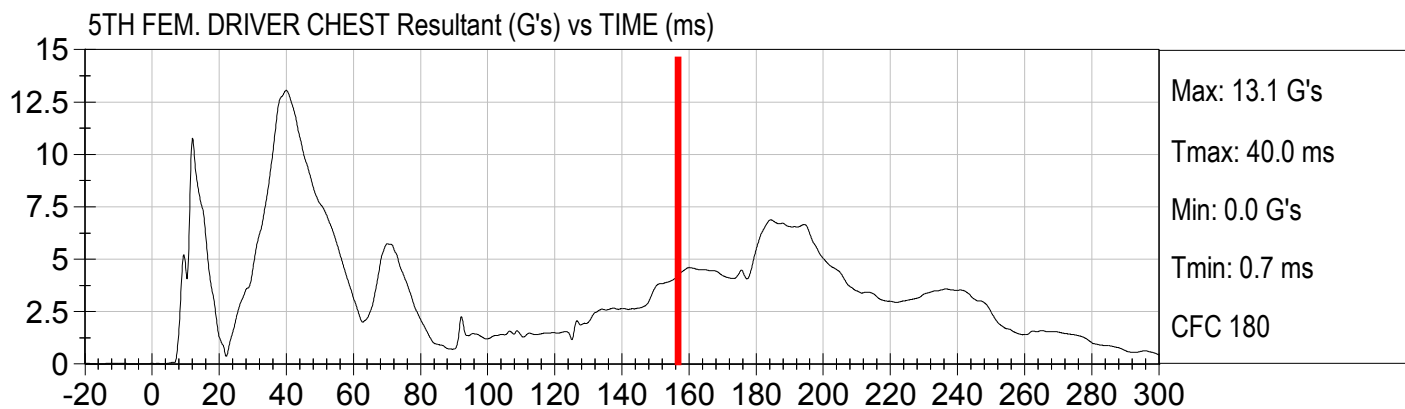
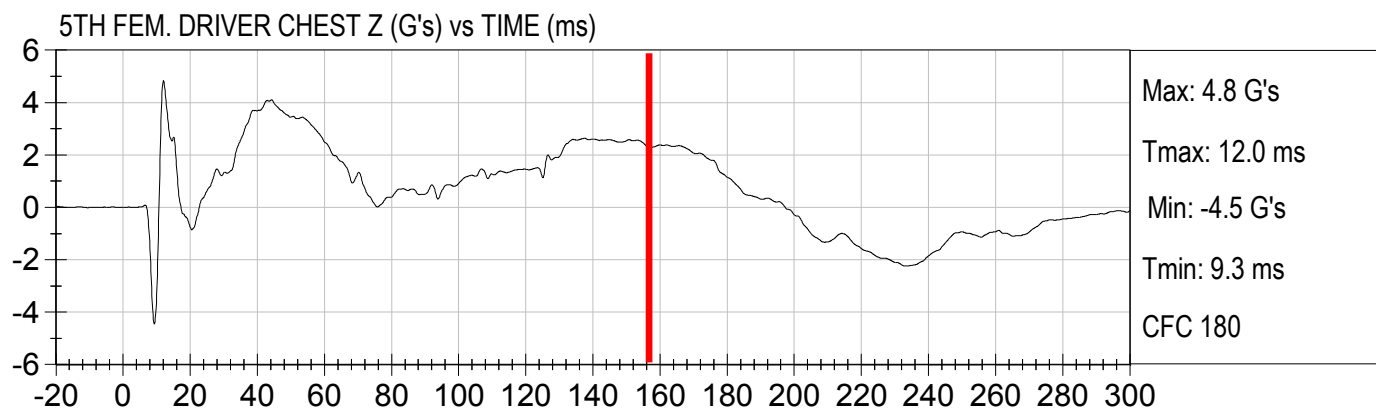
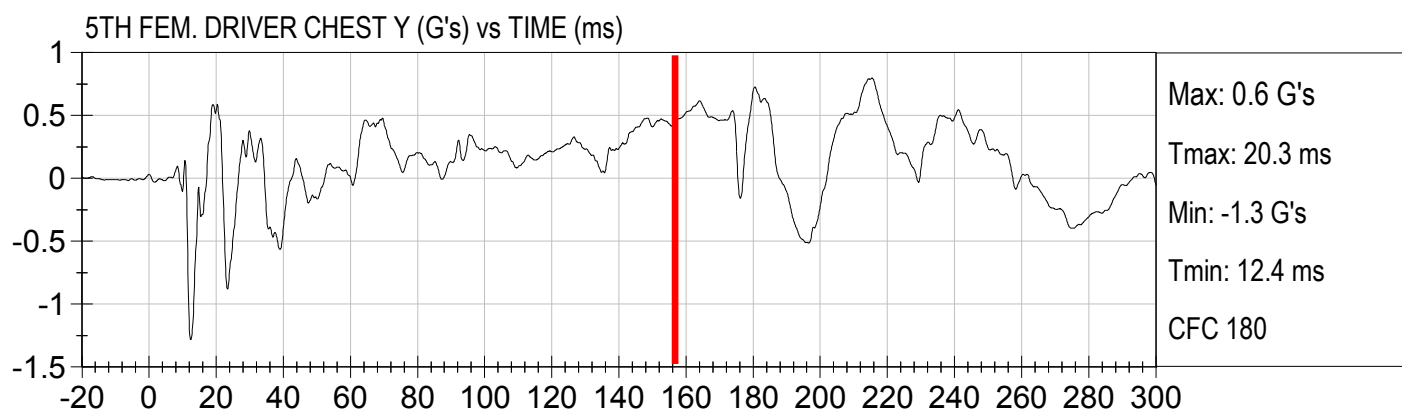
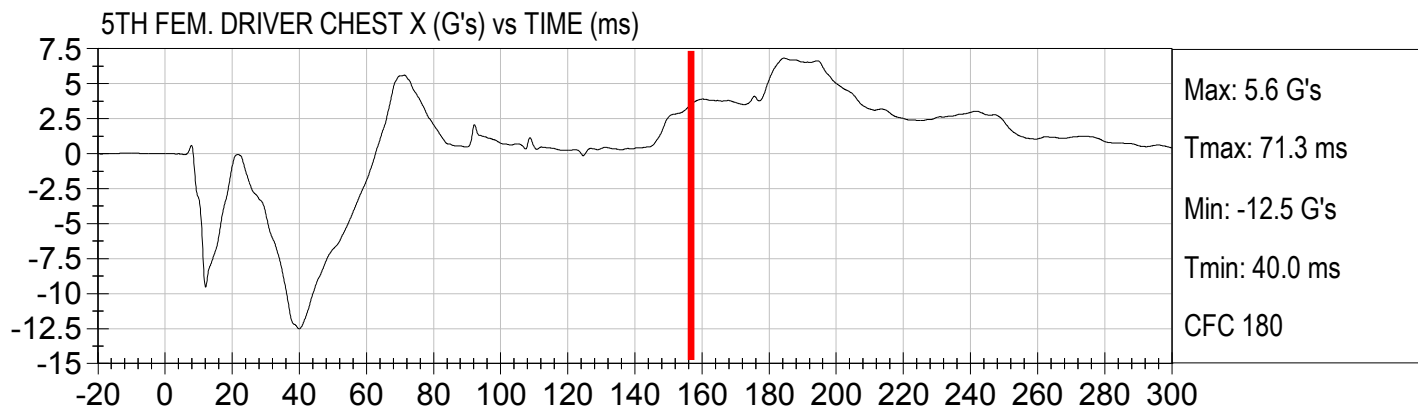


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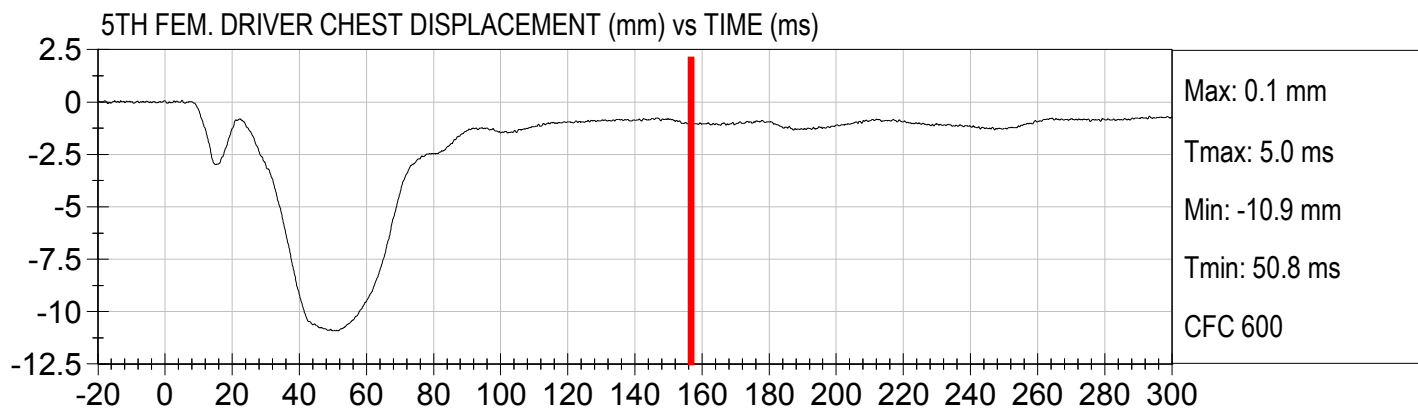
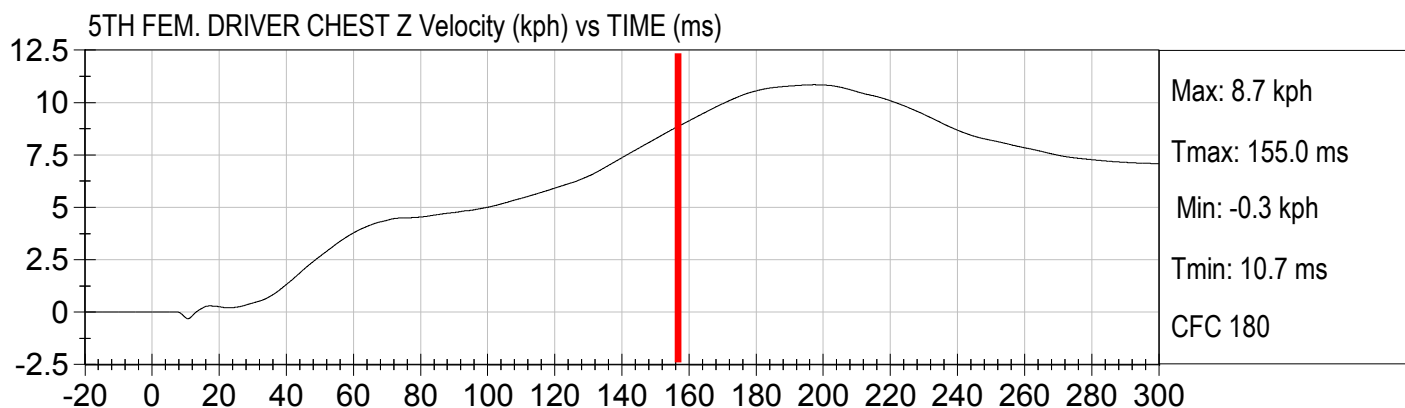
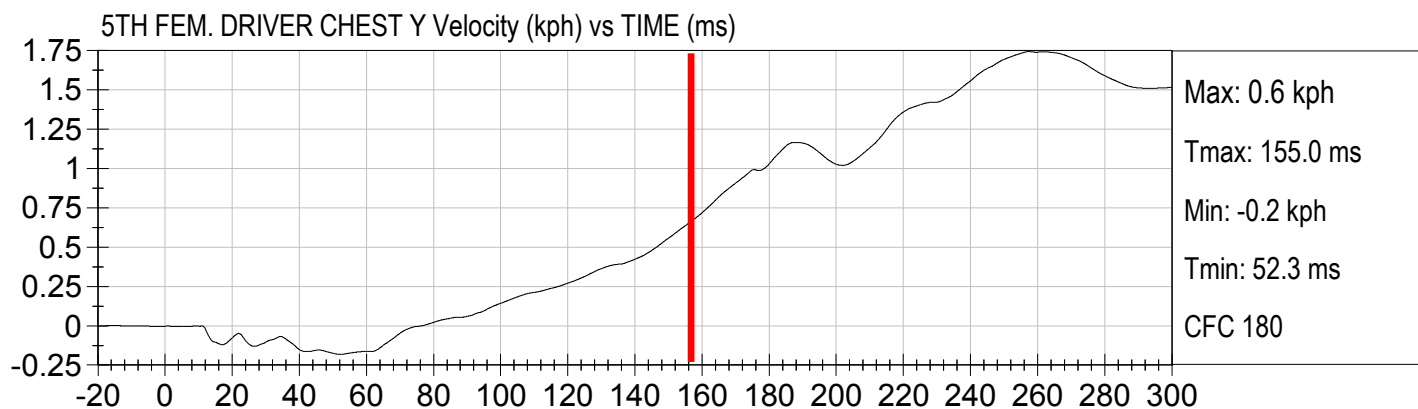
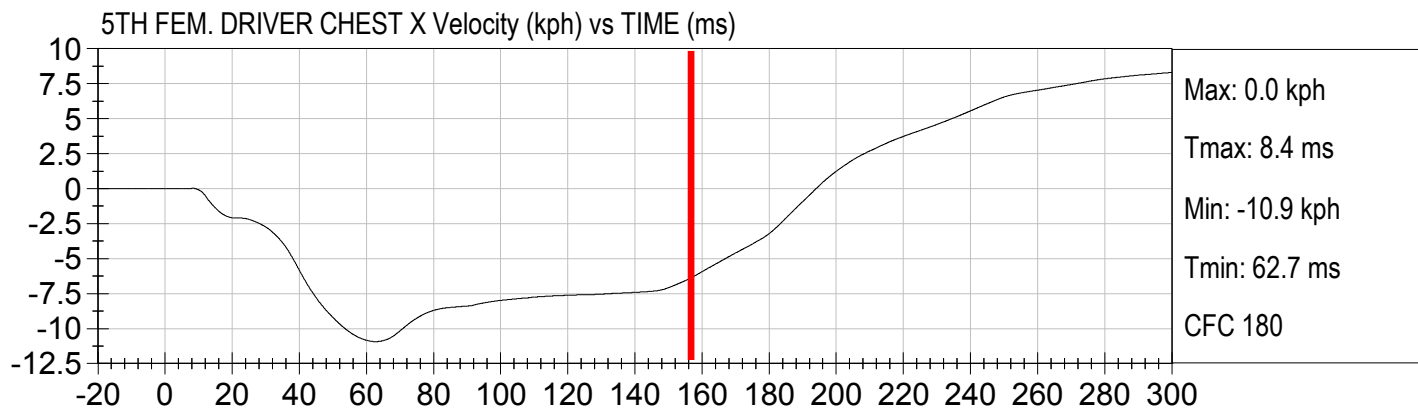


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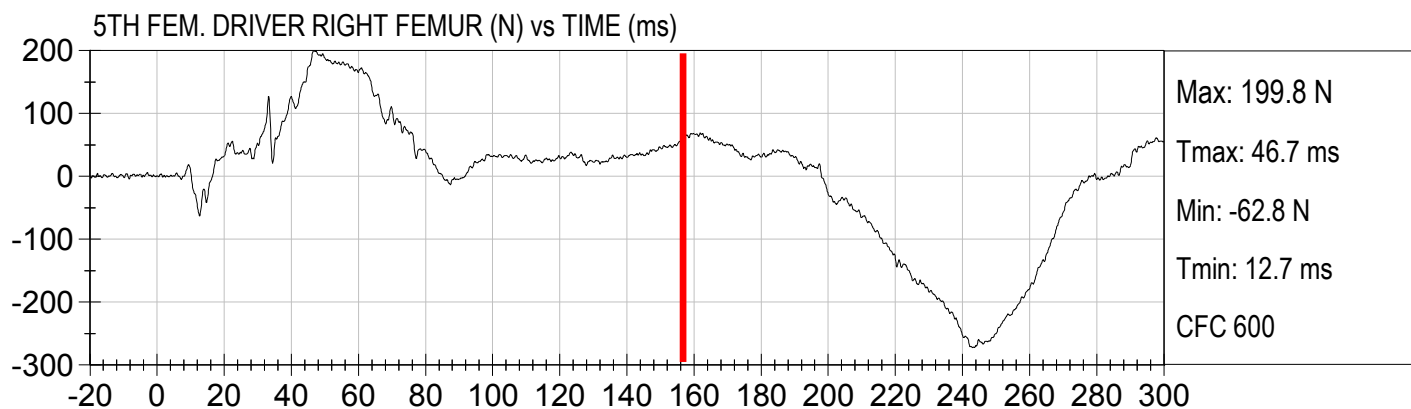
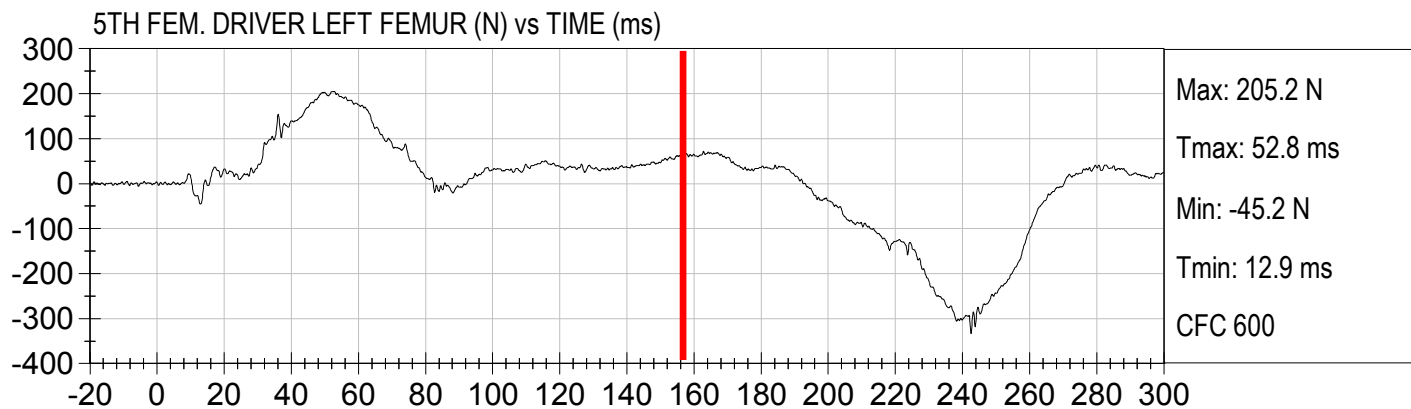


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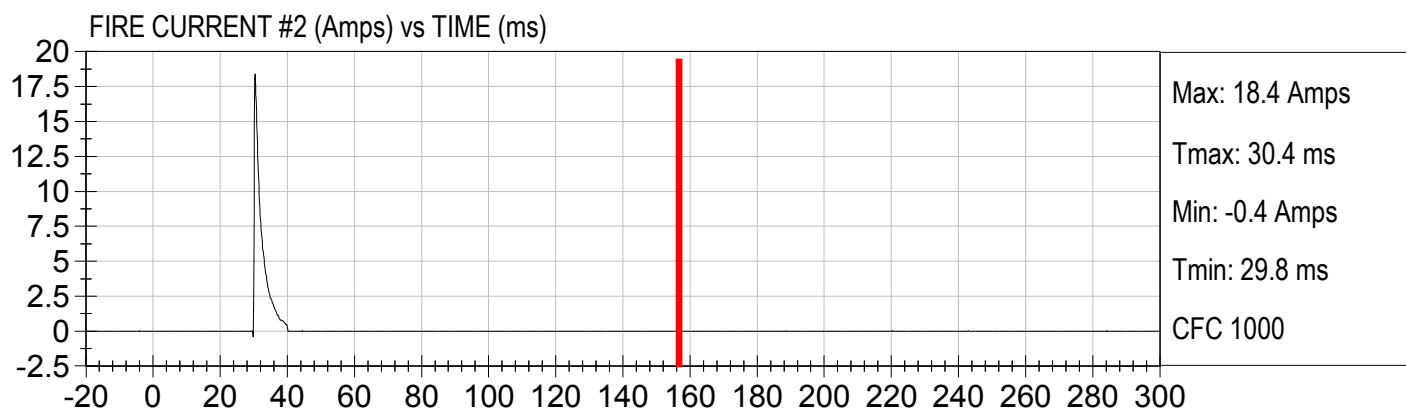
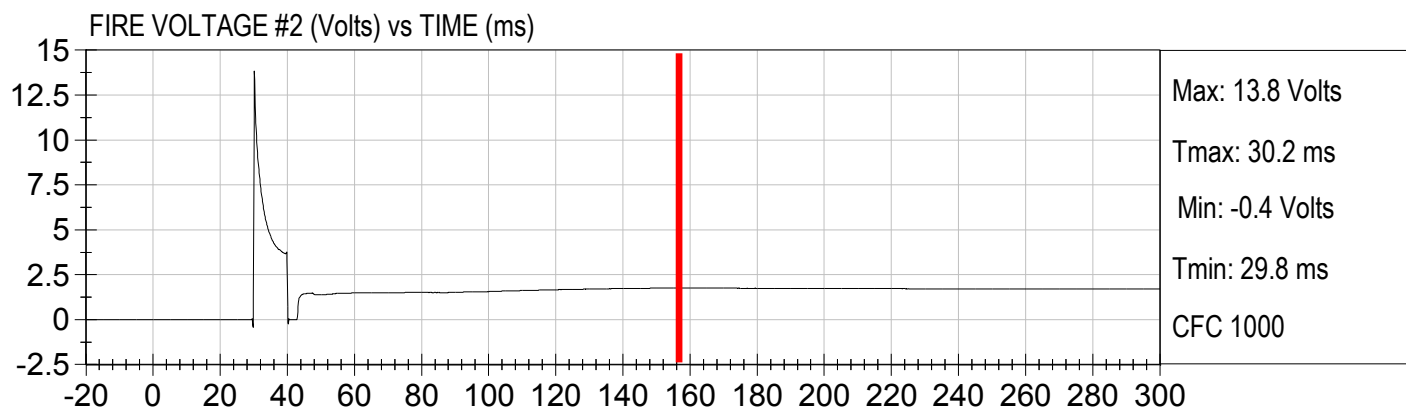
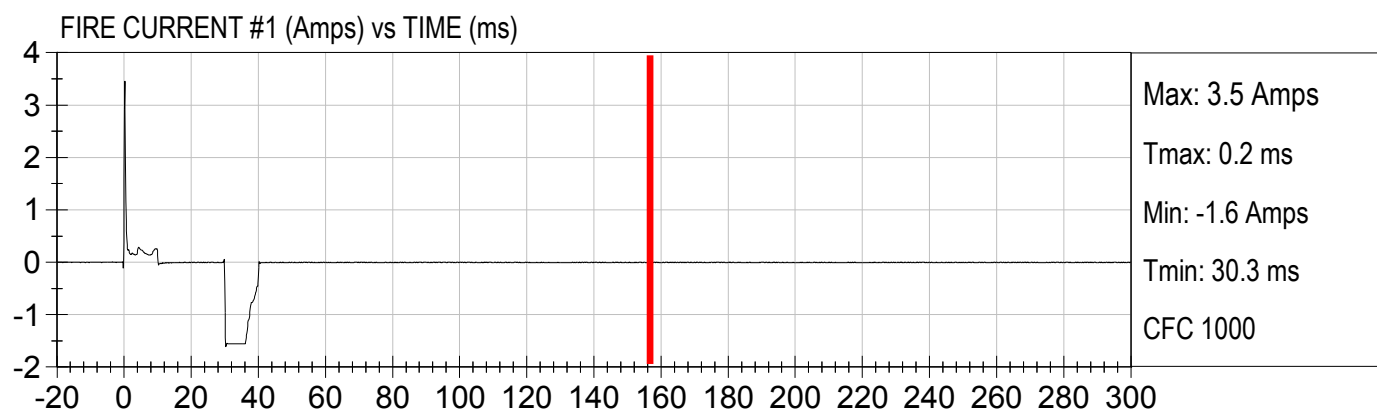
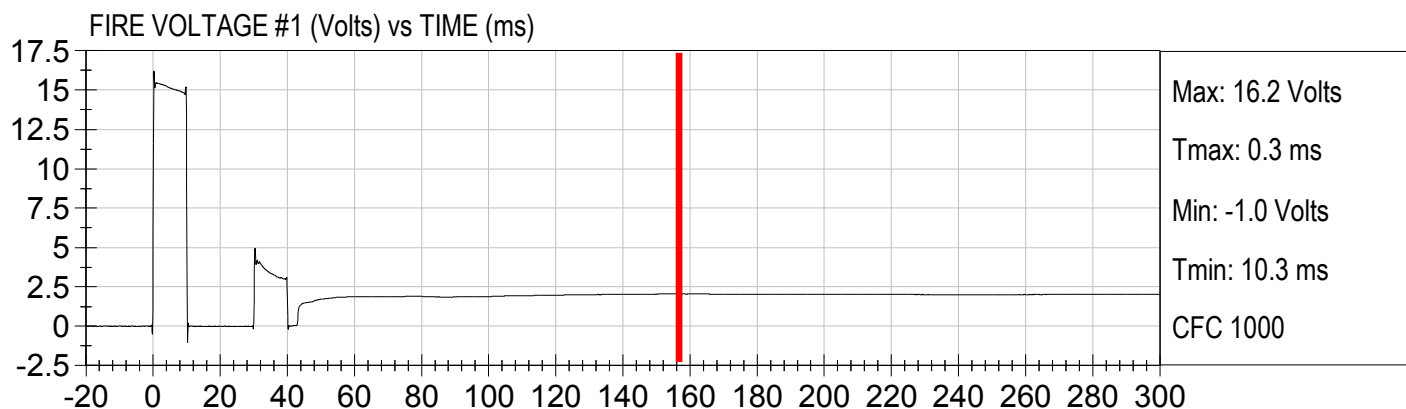


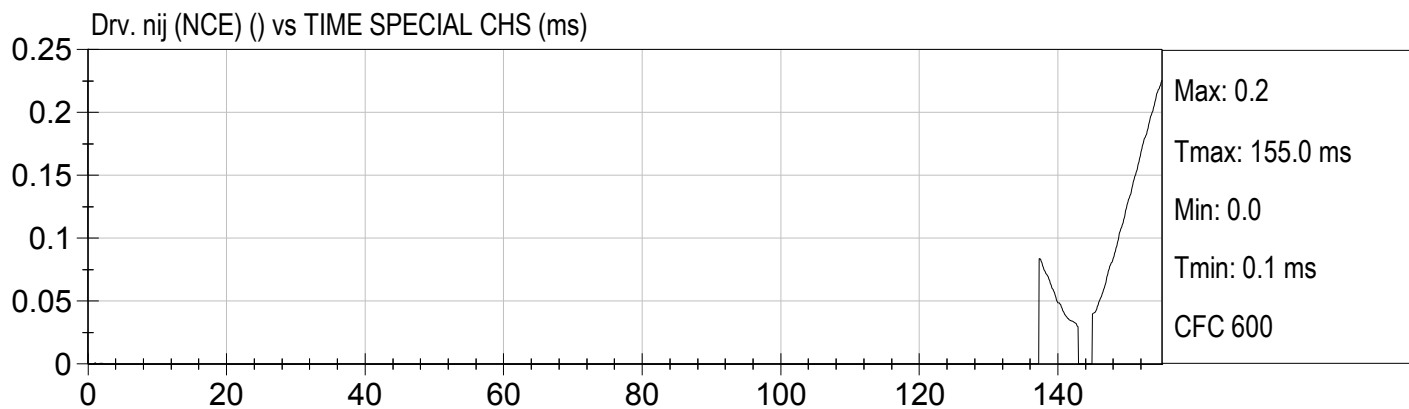
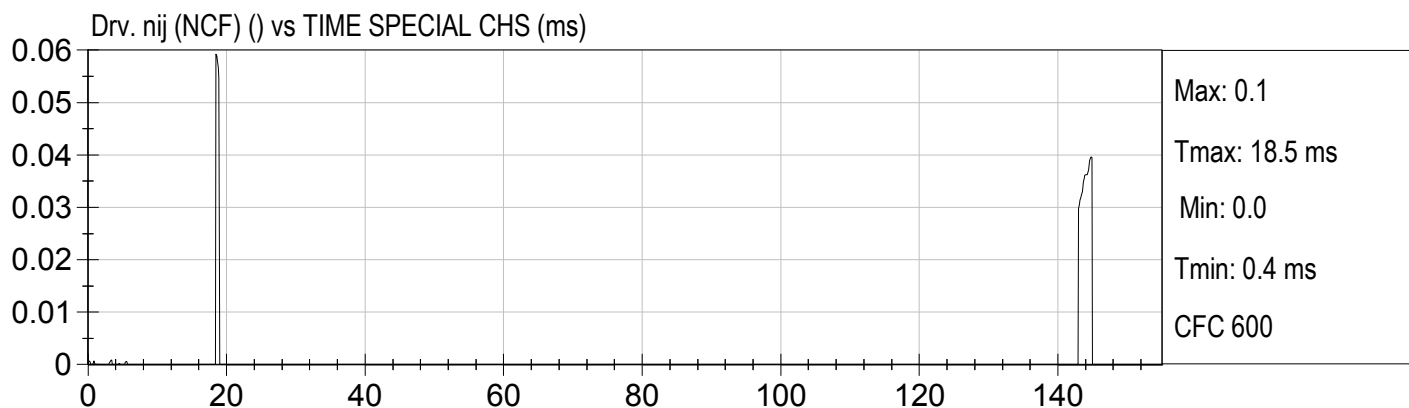
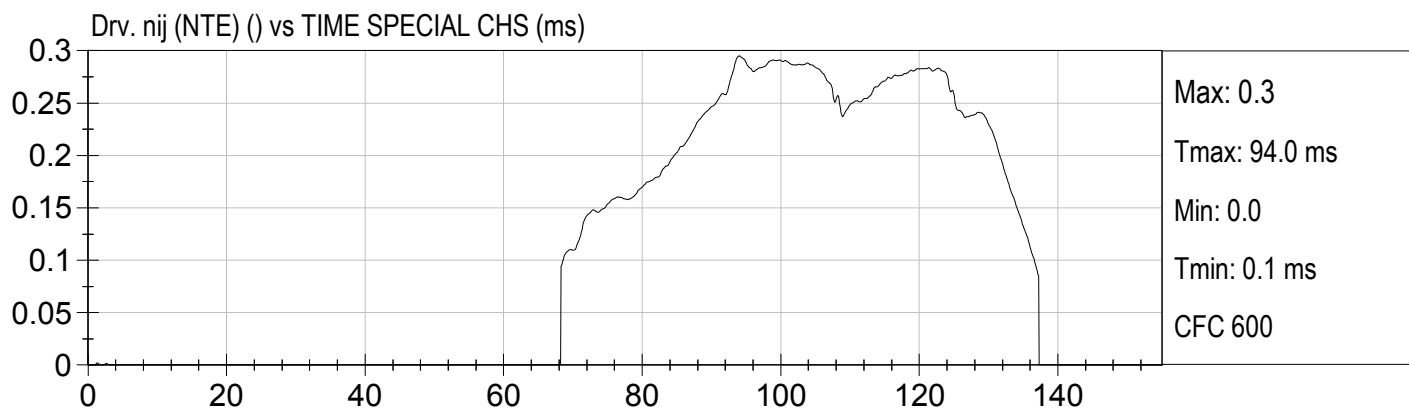
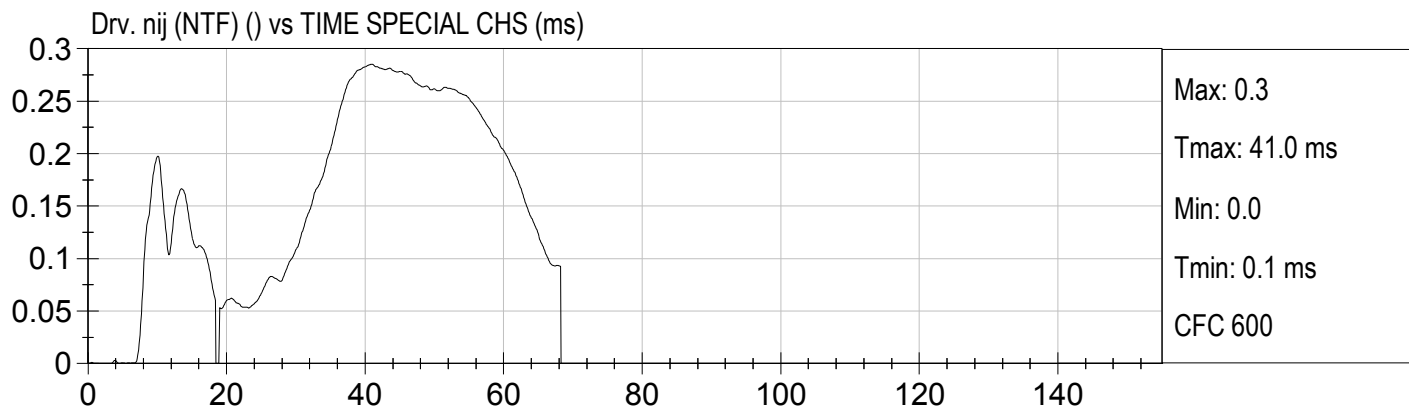
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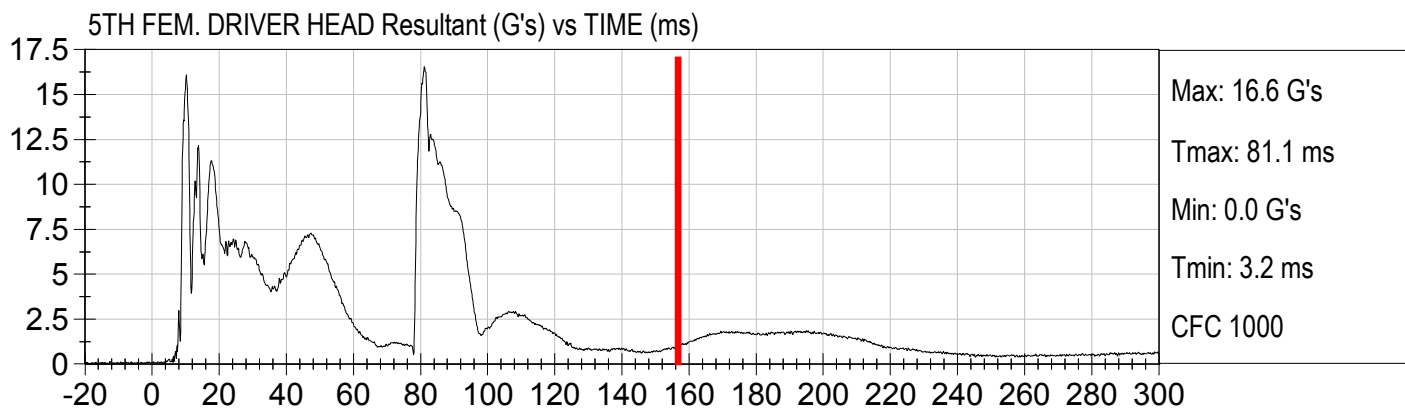
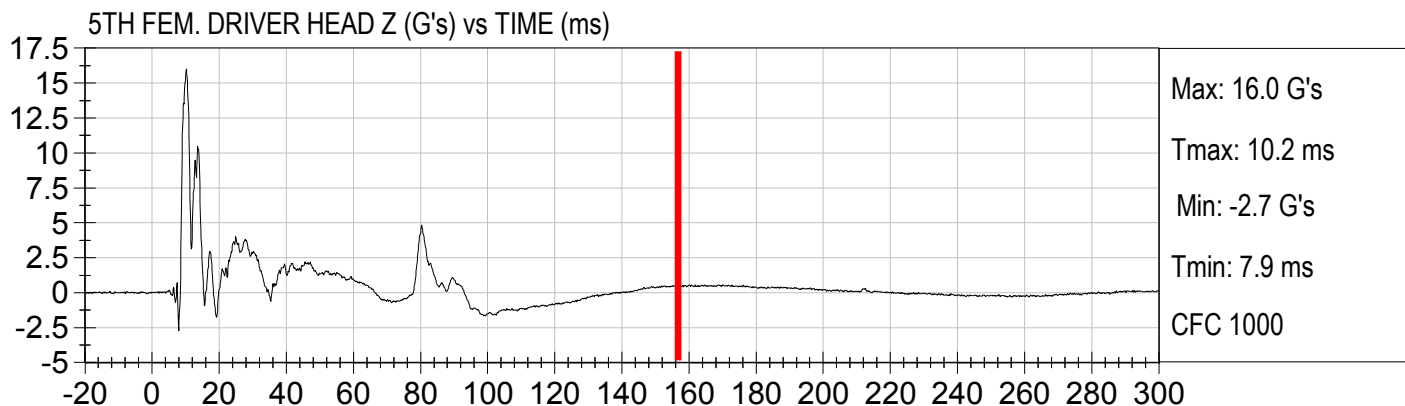
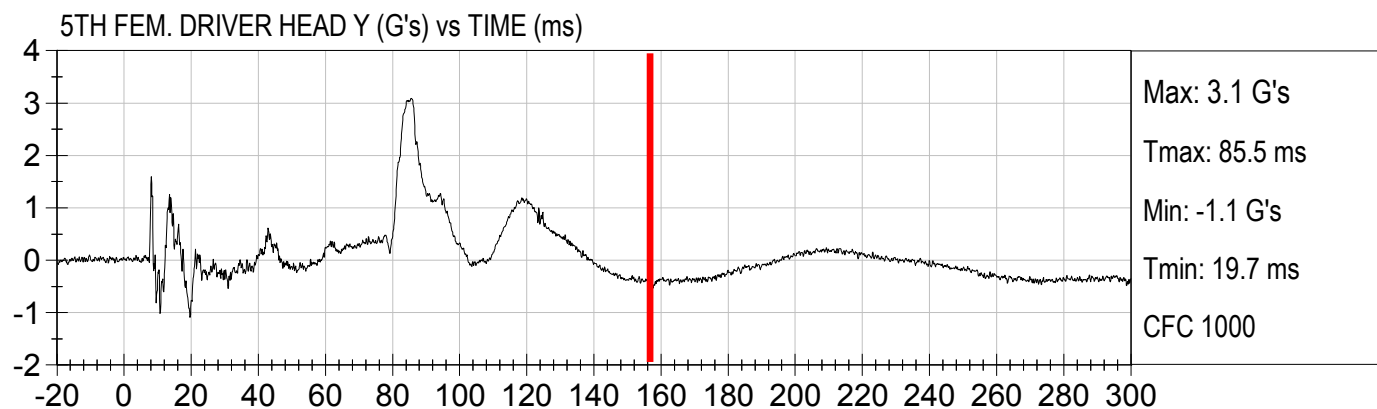
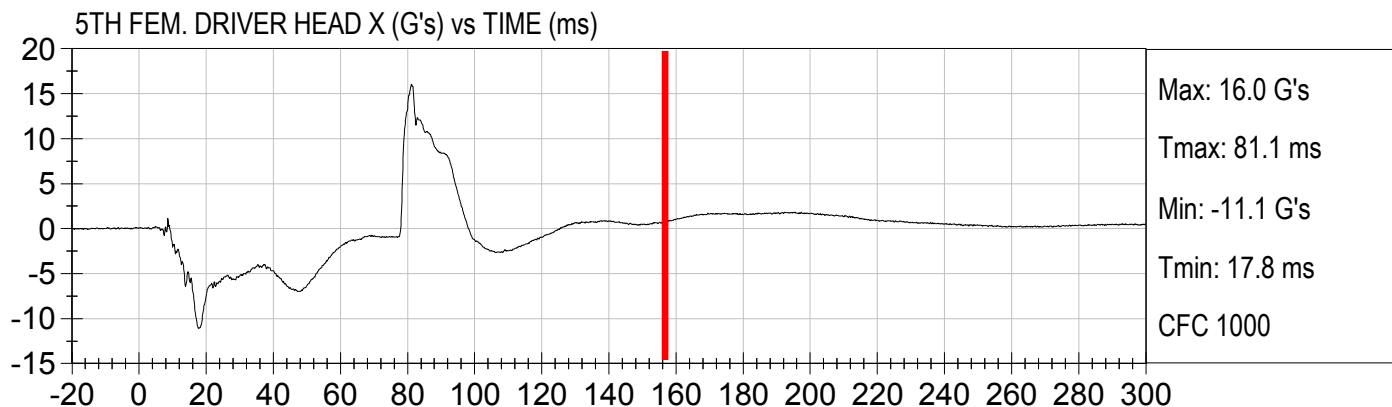
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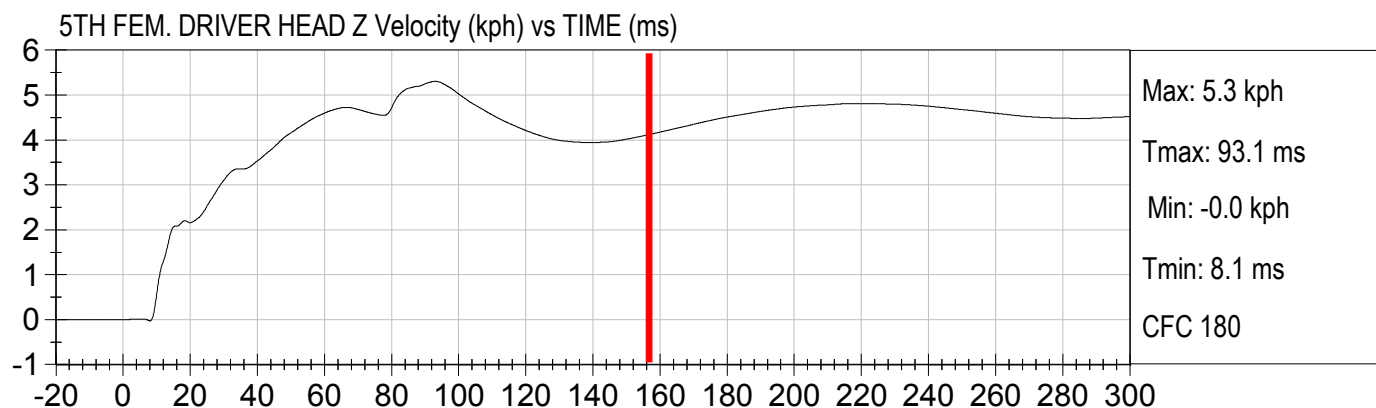
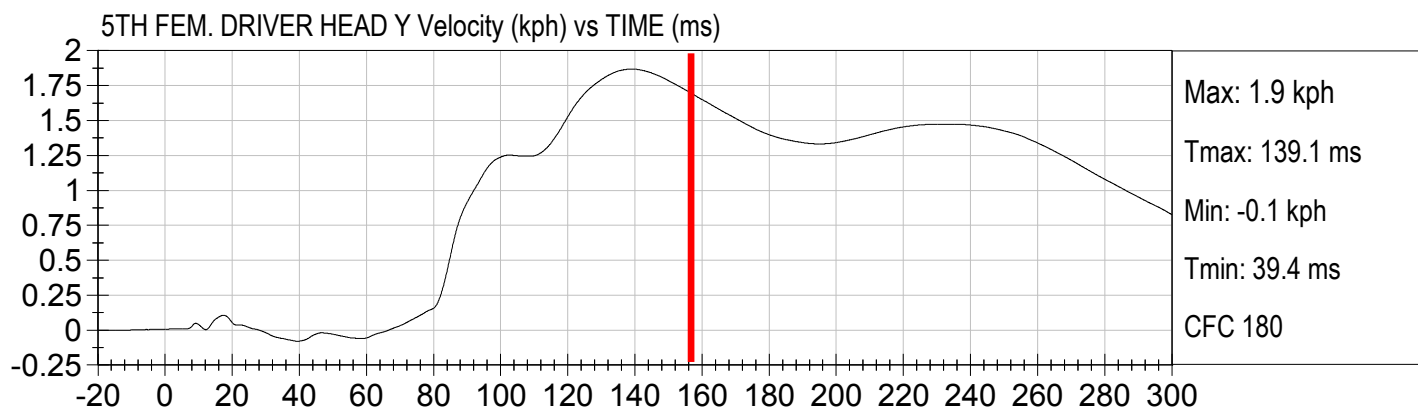
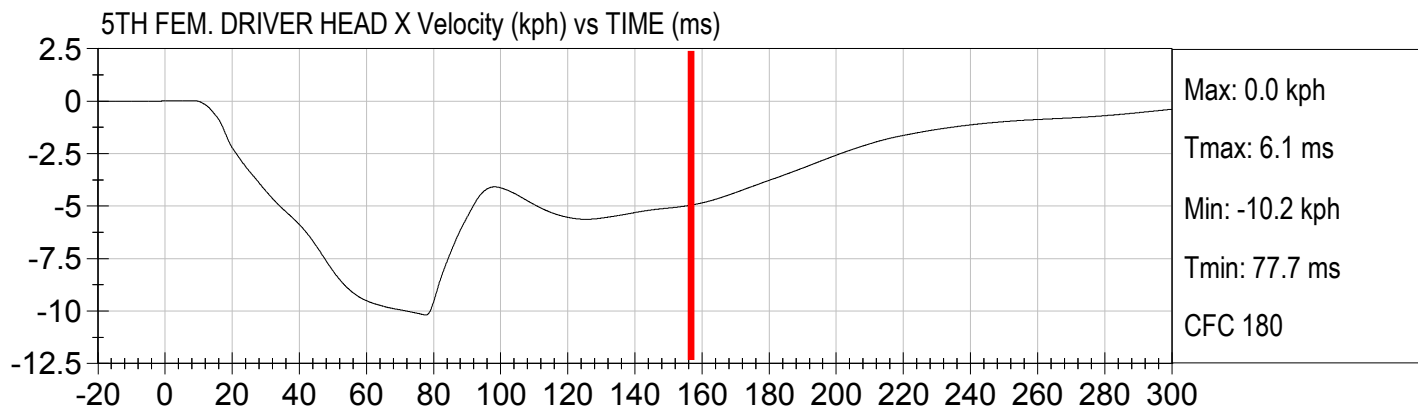


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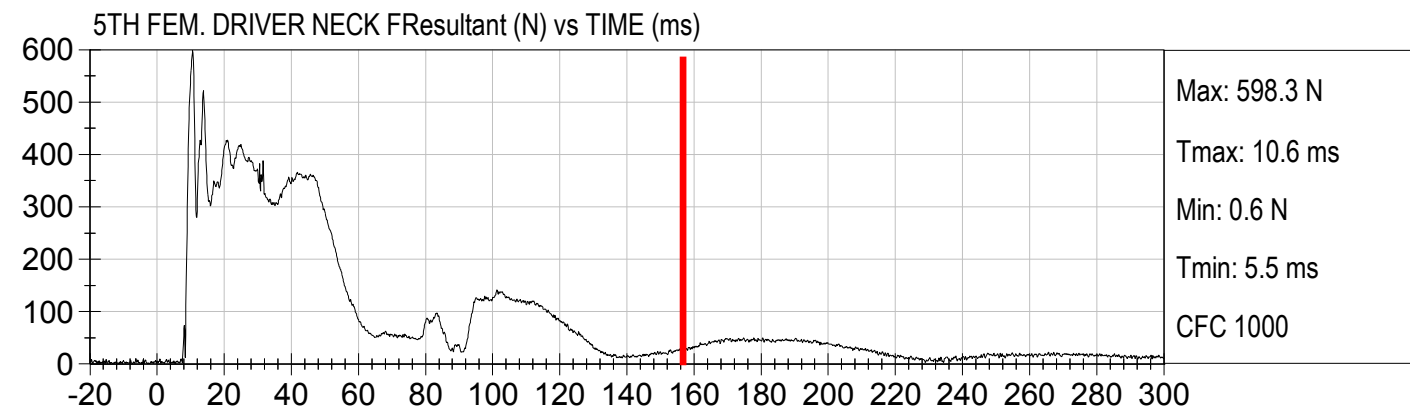
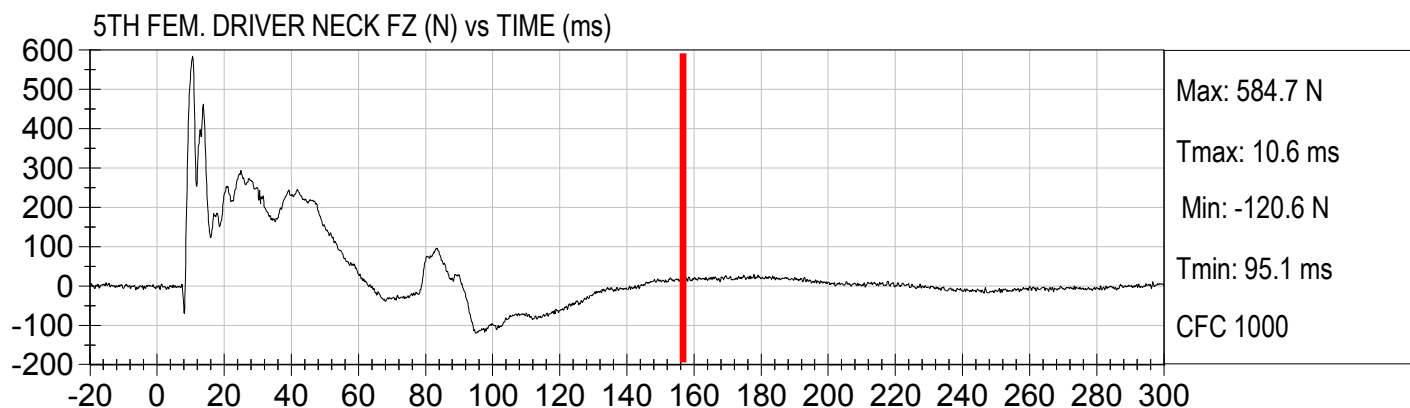
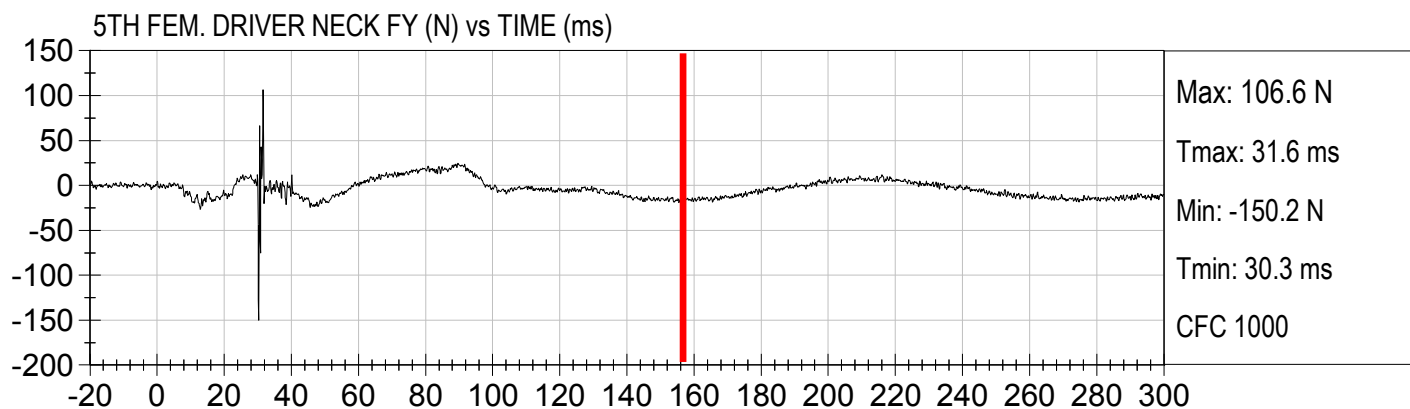
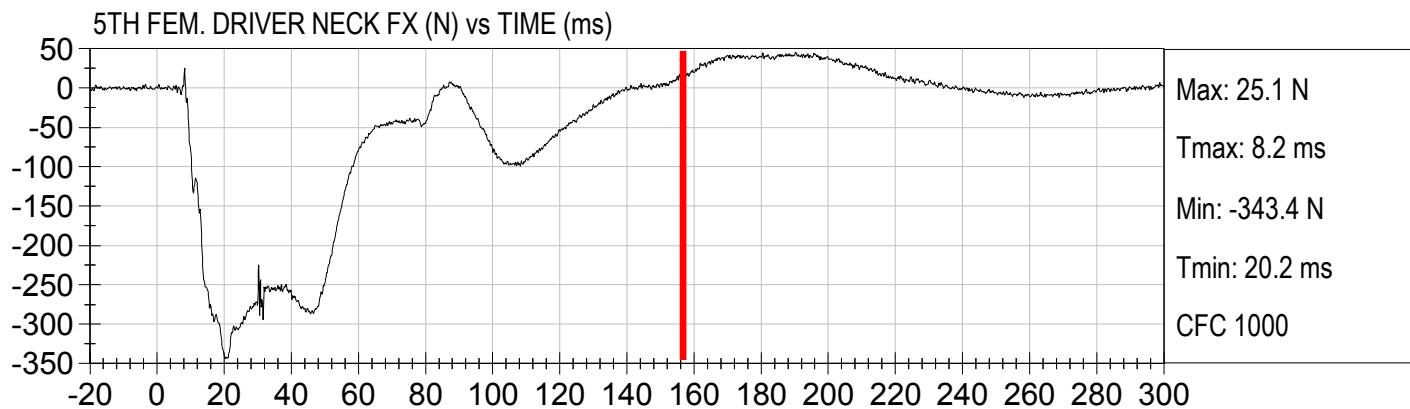


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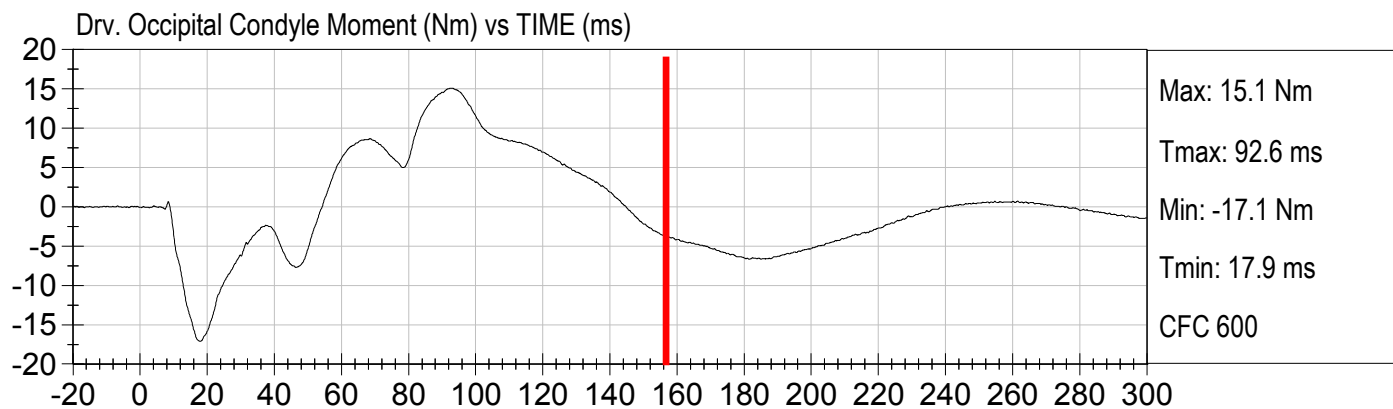
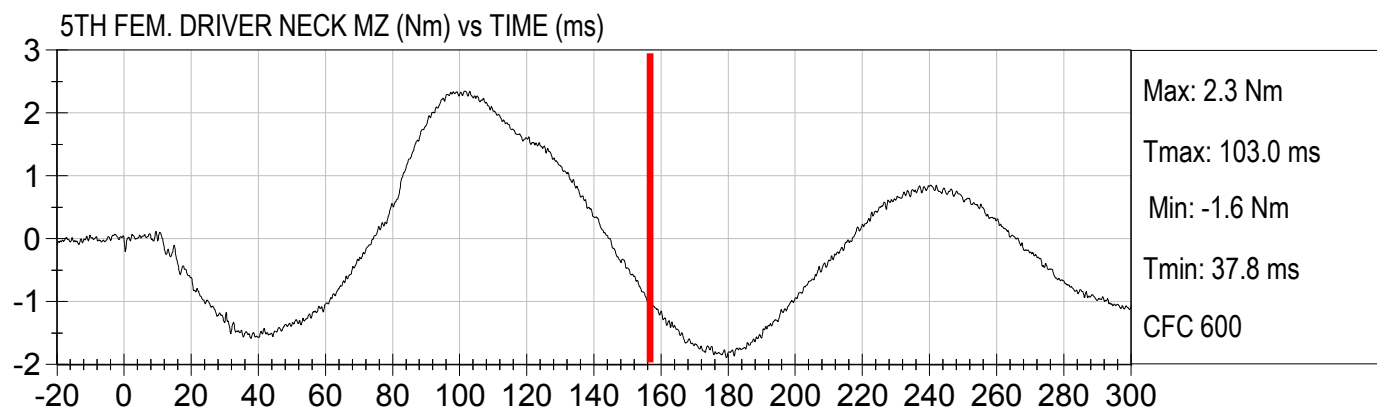
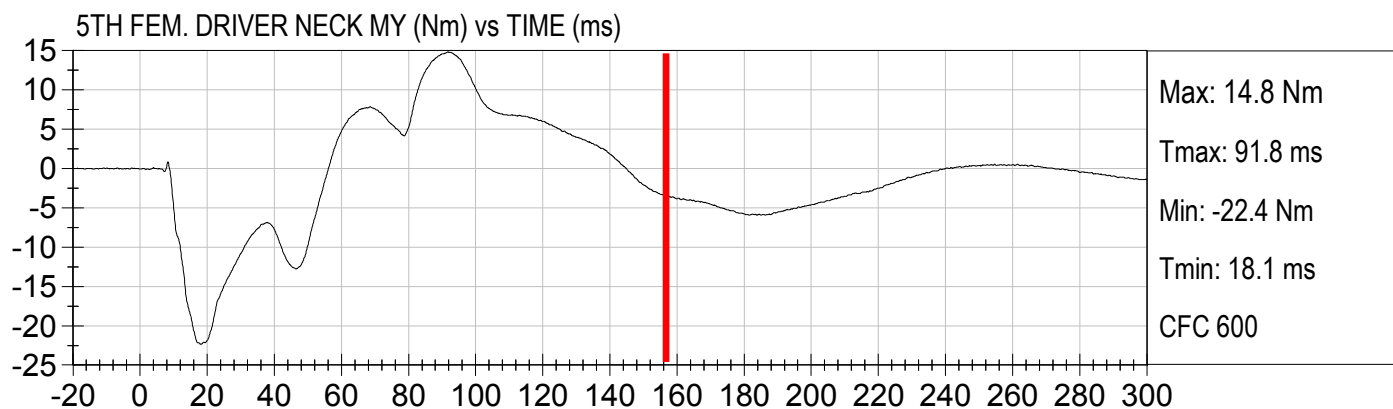
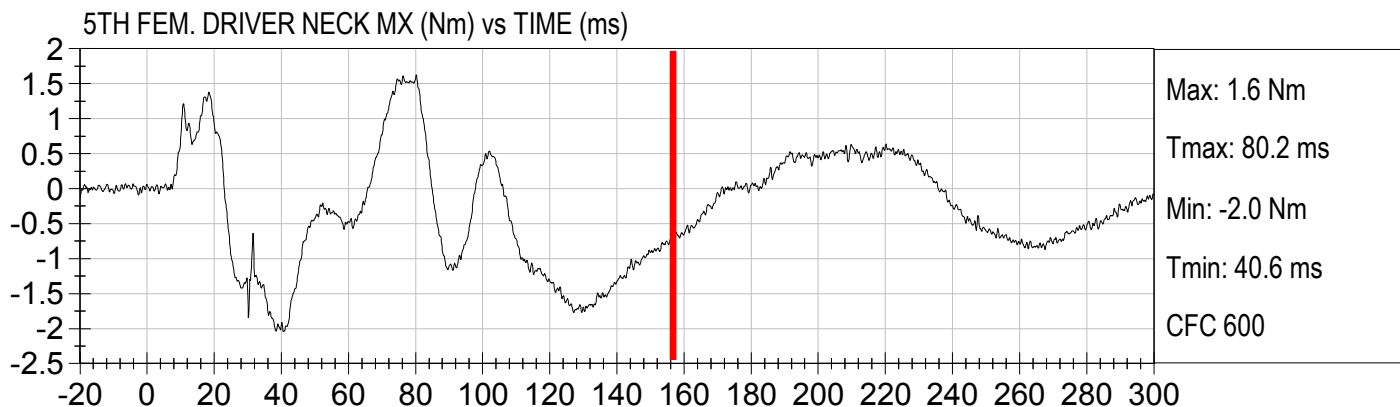


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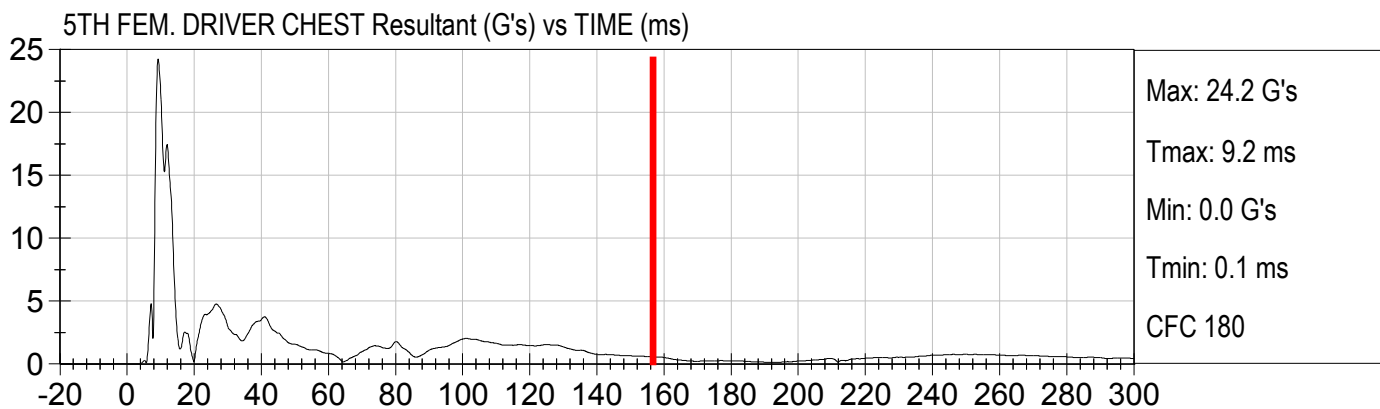
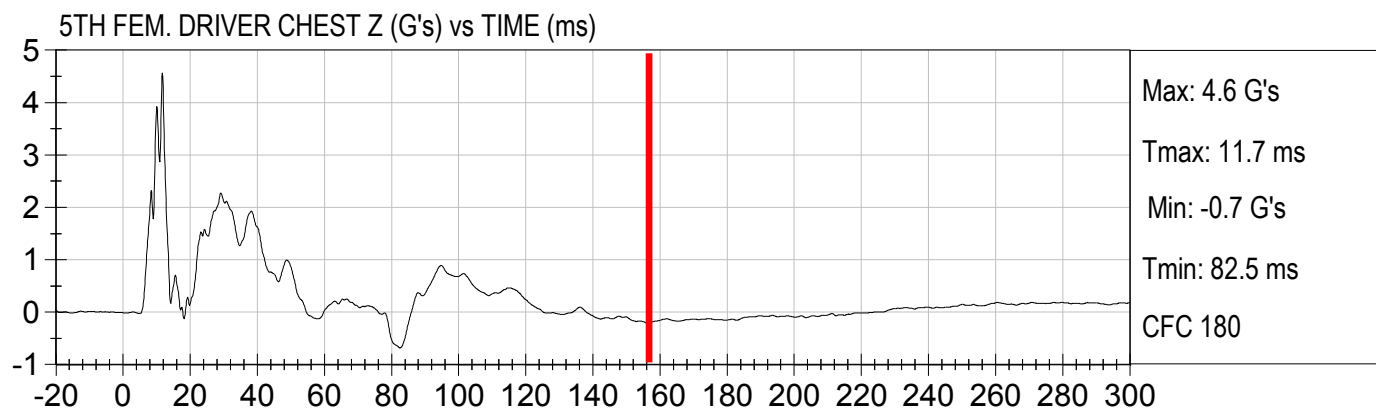
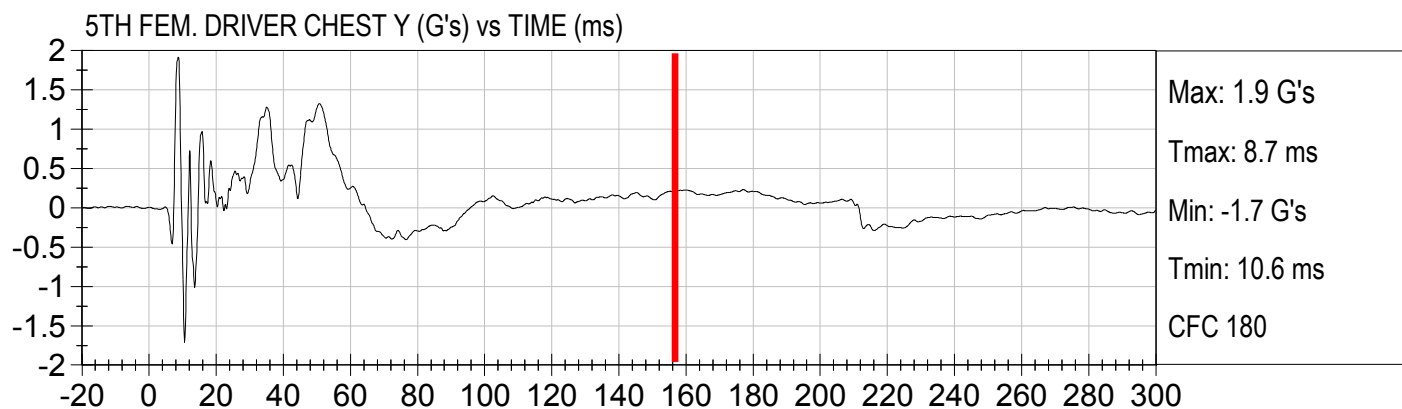
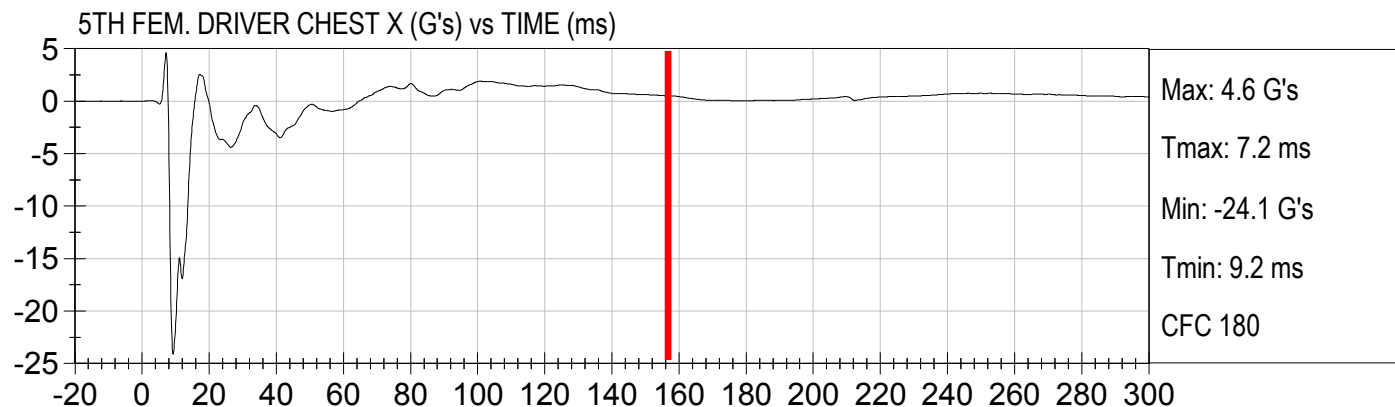


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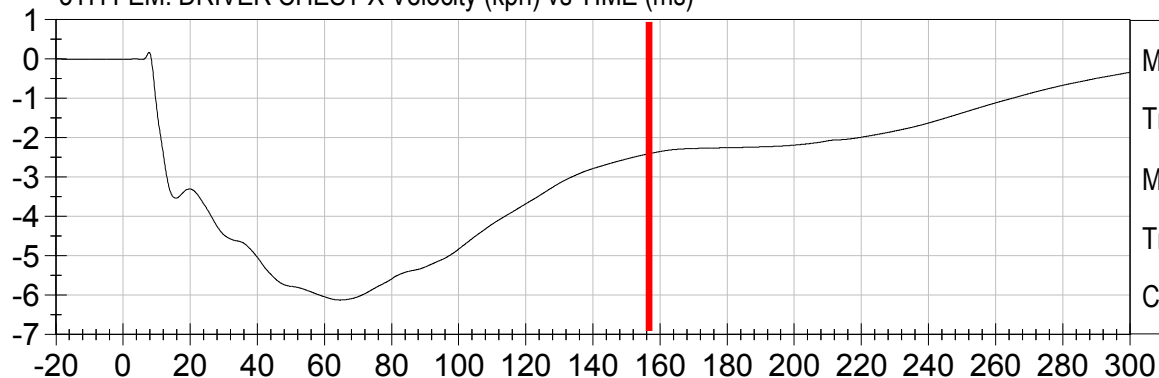
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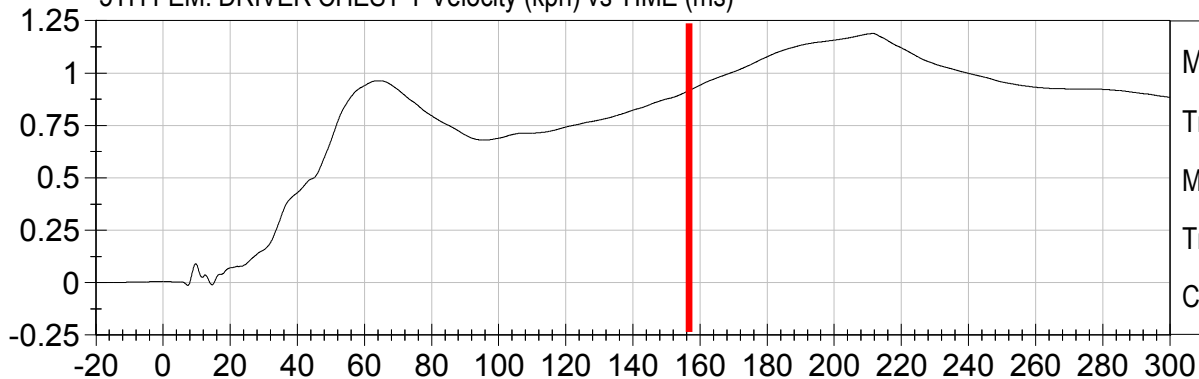


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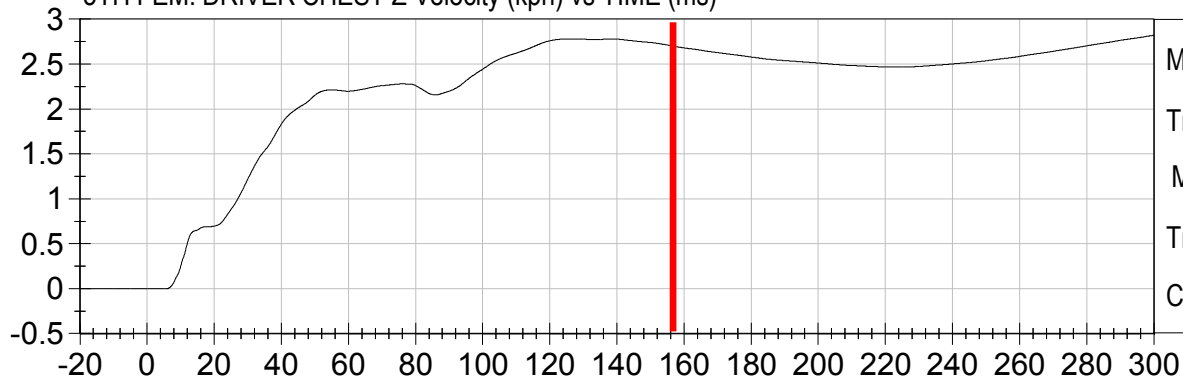
5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)



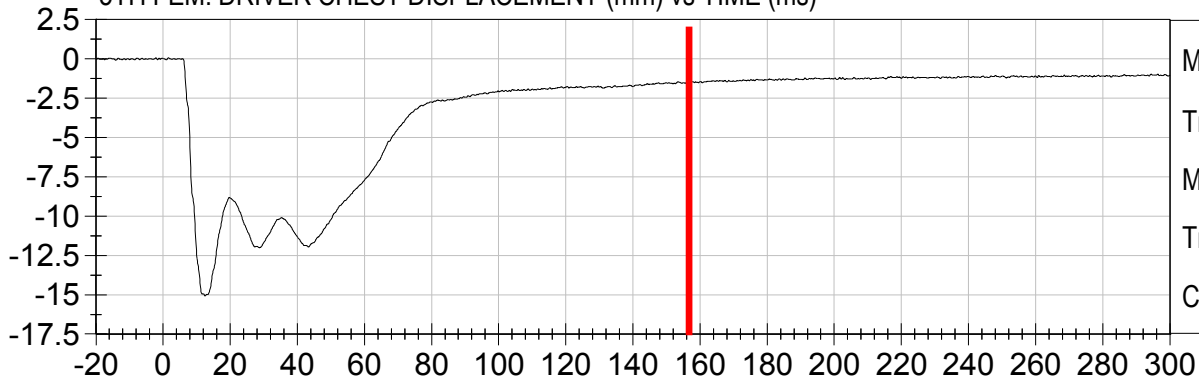
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5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)

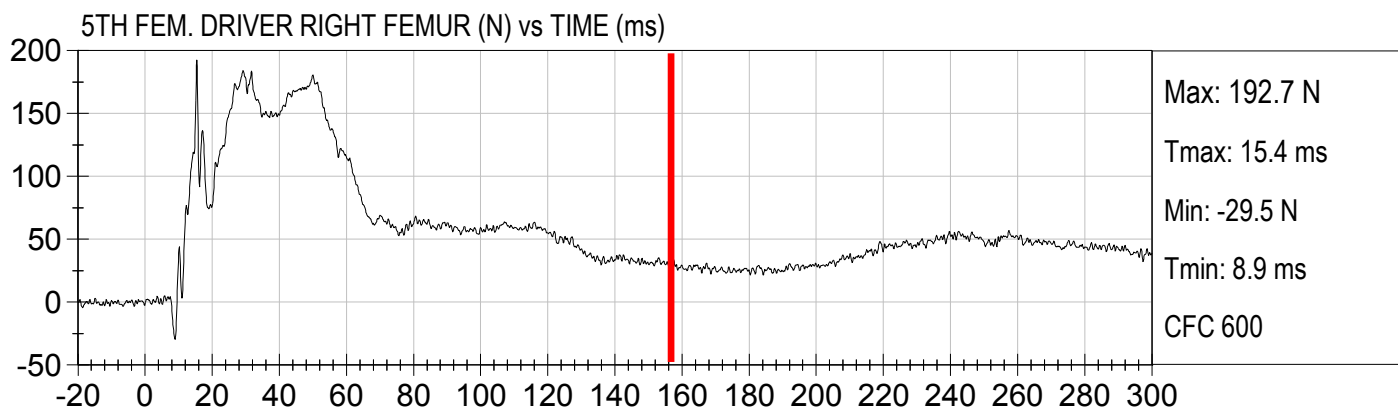
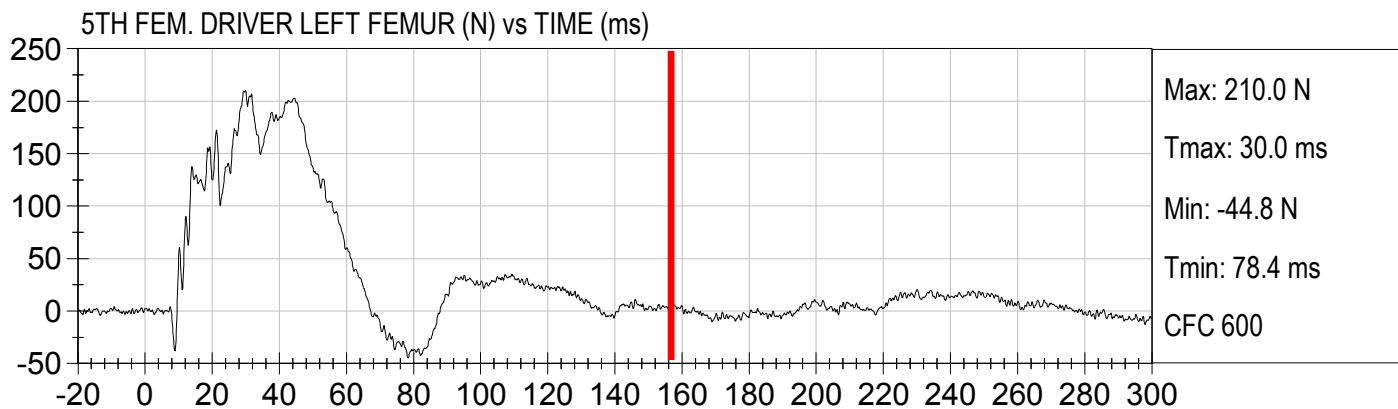


5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)





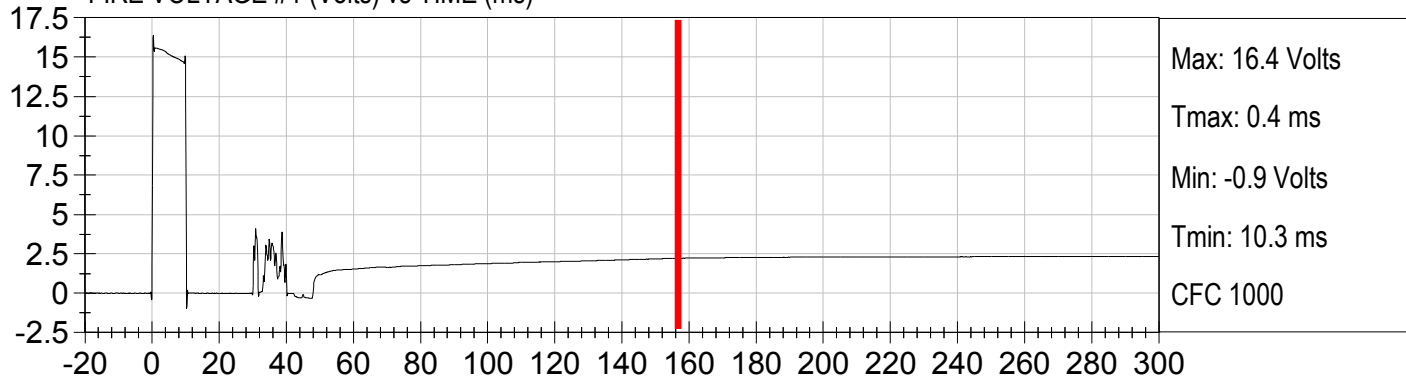
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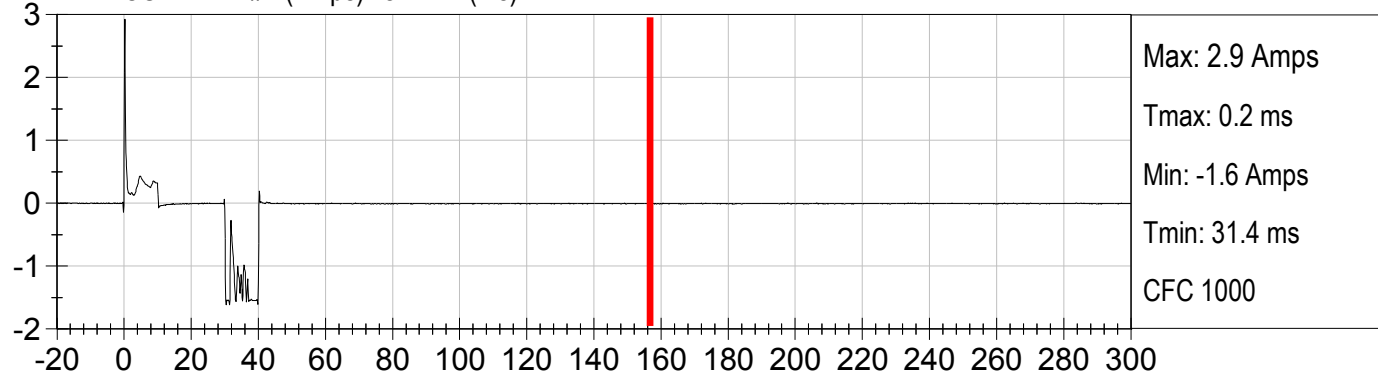


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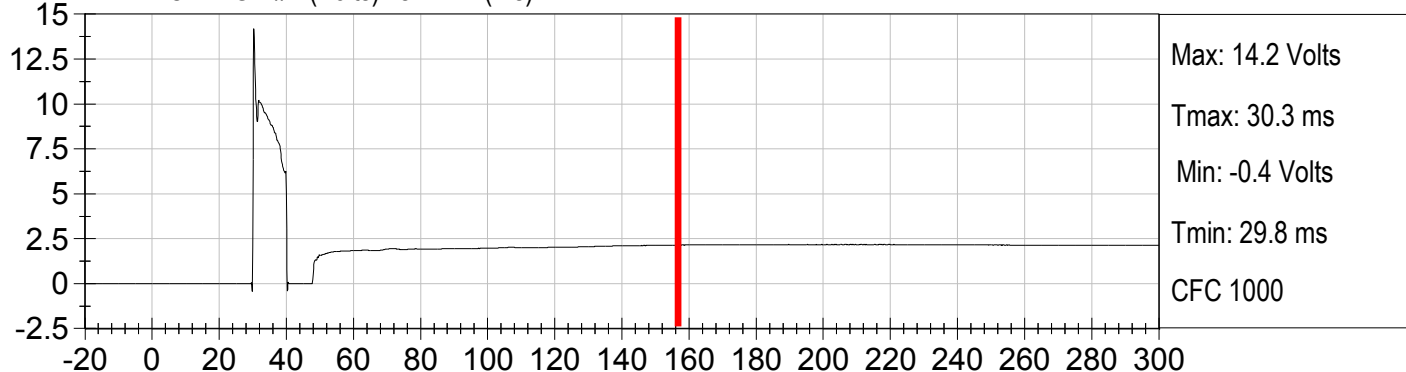
FIRE VOLTAGE #1 (Volts) vs TIME (ms)



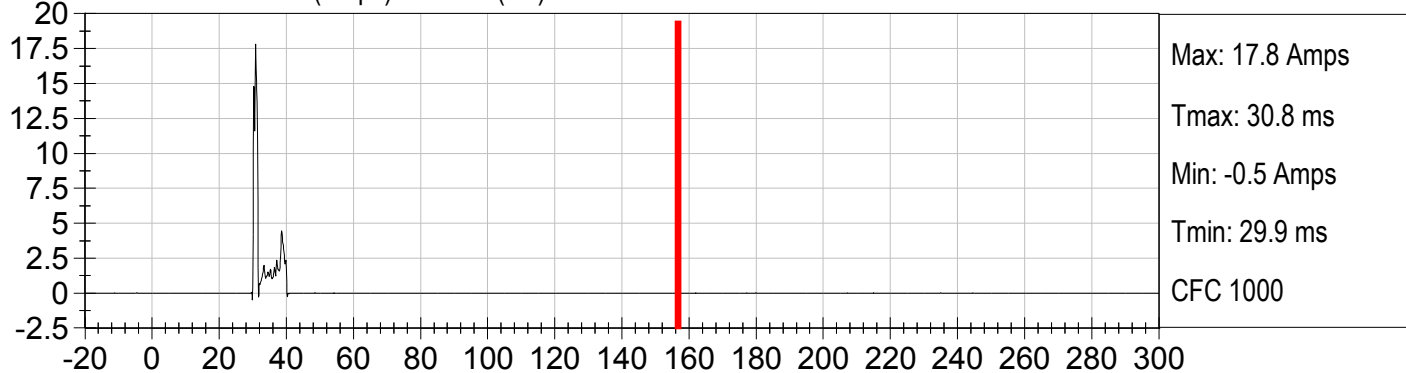
FIRE CURRENT #1 (Amps) vs TIME (ms)



FIRE VOLTAGE #2 (Volts) vs TIME (ms)

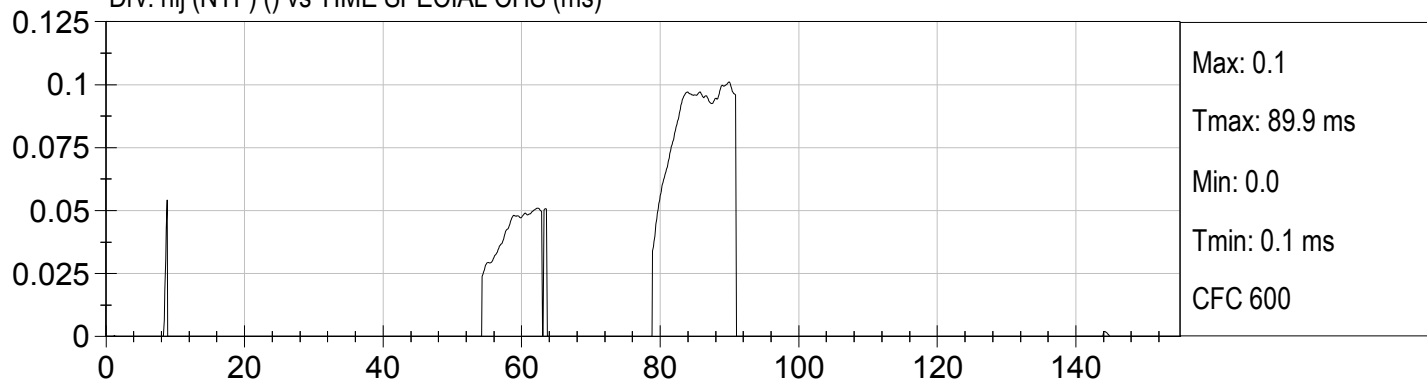


FIRE CURRENT #2 (Amps) vs TIME (ms)

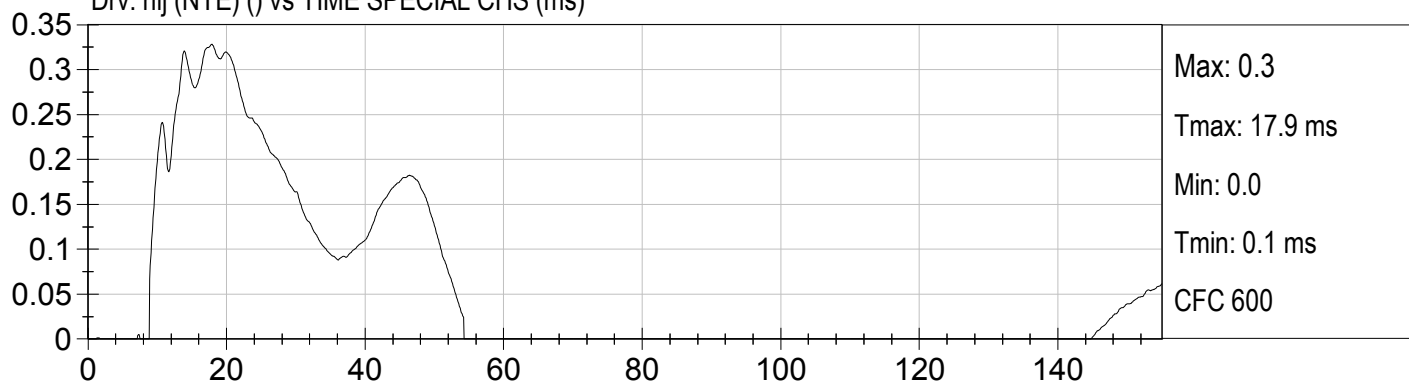




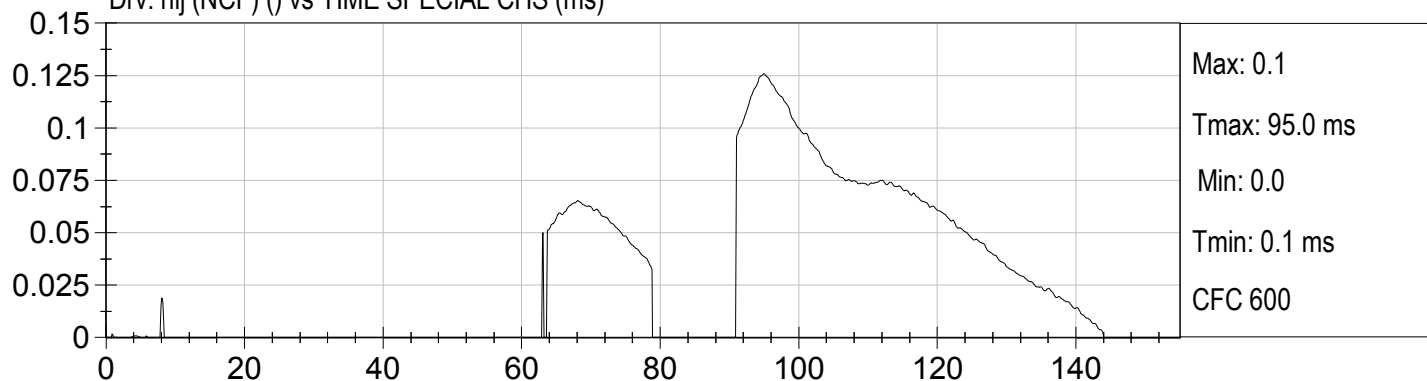
Drv. nij (NTF) () vs TIME SPECIAL CHS (ms)



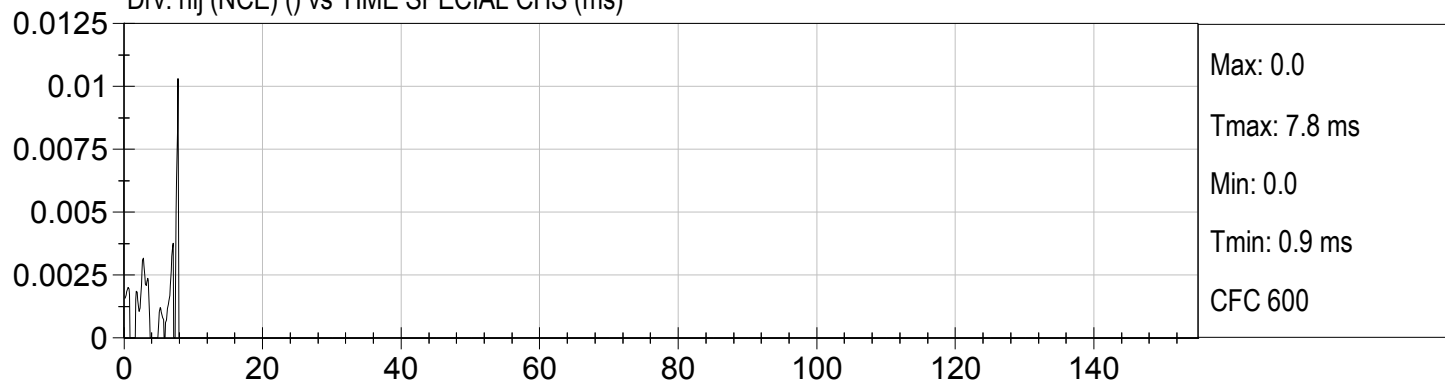
Drv. nij (NTE) () vs TIME SPECIAL CHS (ms)



Drv. nij (NCF) () vs TIME SPECIAL CHS (ms)



Drv. nij (NCE) () vs TIME SPECIAL CHS (ms)



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MANUFACTURED BY NISSAN MOTOR CO., LTD.

DATE: 05/13

GVWR/PNBV: 5159 LBS.

GAWR/PNBE FR: 2557 LBS. RR: 2623 LBS.

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL
MOTOR VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION
STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE
SHOWN ABOVE.

VIN: JN1AV7AR0EM700342 PASSENGER CAR

COLOR	TRIM	TRANS	AXLE	ENGINE	
CAN	G	RE7R01H	RG26	VQ35(HR)	3498CC



JN1AV7AR0EM700342

C20145200



TIRE AND LOADING INFORMATION
RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY NOMBRE DE PLACES	TOTAL TOTAL	5	FRONT AVANT	2
			REAR ARRIÈRE	3

The combined weight of occupants and cargo should never exceed **408 kg** or **900 lbs.**
Le poids total des occupants et du chargement ne doit jamais dépasser **408 kg** ou **900 lb.**

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID
FRONT AVANT	P225/55RF17 95V	240kPa , 35PSI
REAR ARRIÈRE	P225/55RF17 95V	240kPa , 35PSI
SPARE DE SECOURS	None Aucun	

SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS

FM 4HB0A

C20145200



Pre-Test Front View of Test Vehicle



Post-Test Front View of Test Vehicle

C-5.



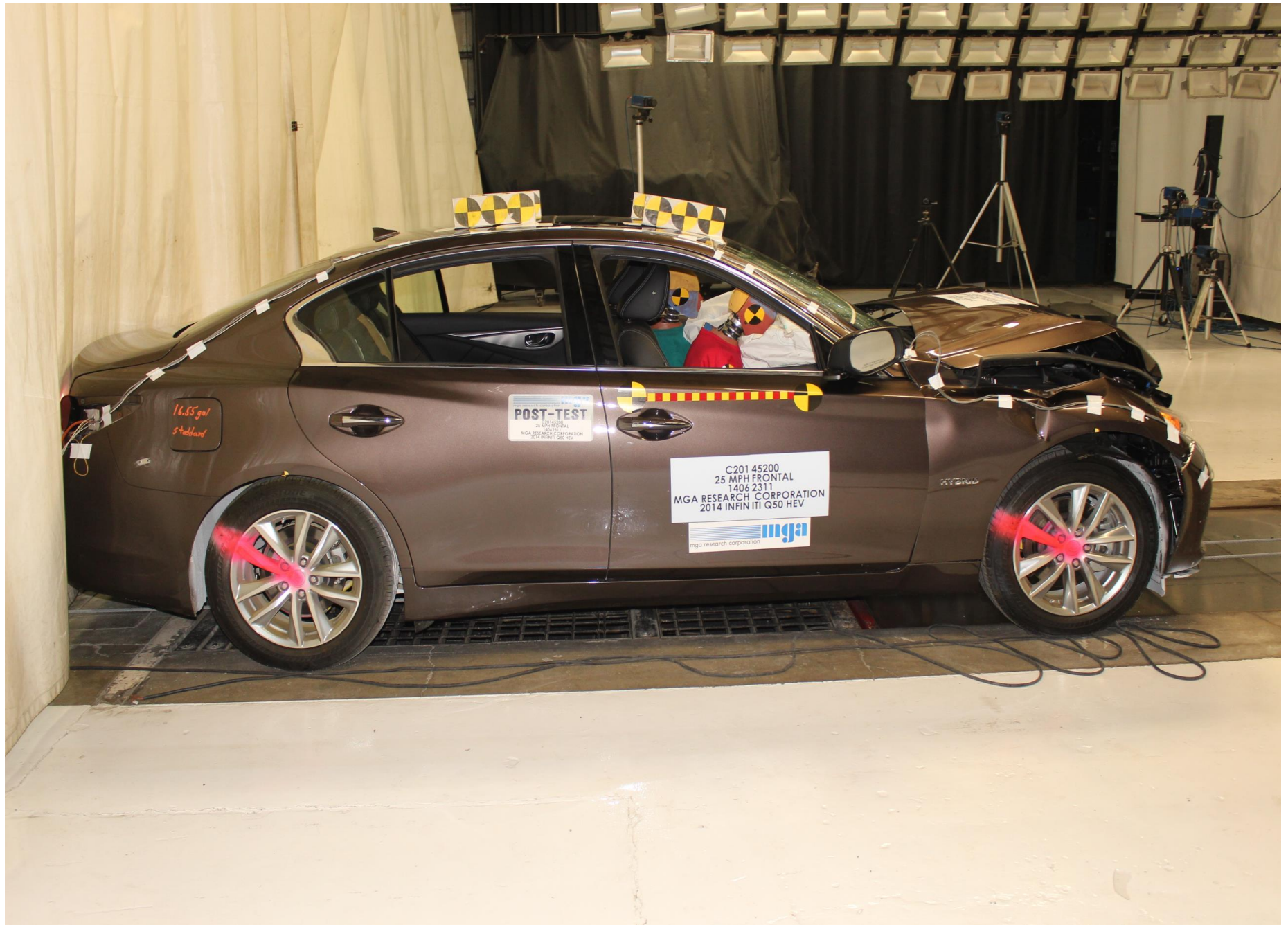
Pre-Test Left Side View of Test Vehicle



Post-Test Left Side View of Test Vehicle



Pre-Test Right Side View of Test Vehicle



Post-Test Right Side View of Test Vehicle



Pre-Test Left Front Three-Quarter View of Test Vehicle



Post-Test Left Front Three-Quarter View of Test Vehicle



Pre-Test Right Front Three-Quarter View of Test Vehicle



Post-Test Right Front Three-Quarter View of Test Vehicle

Pre-Test Right Rear Three-Quarter View of Test Vehicle



Post-Test Right Rear Three-Quarter View of Test Vehicle

Pre-Test Left Rear Three-Quarter View of Test Vehicle



Post-Test Left Rear Three-Quarter View of Test Vehicle



Pre-Test Rear View of Test Vehicle



Post-Test Rear View of Test Vehicle



Pre-Test Windshield View



Post-Test Windshield View

C-21.



Pre-Test Engine Compartment View



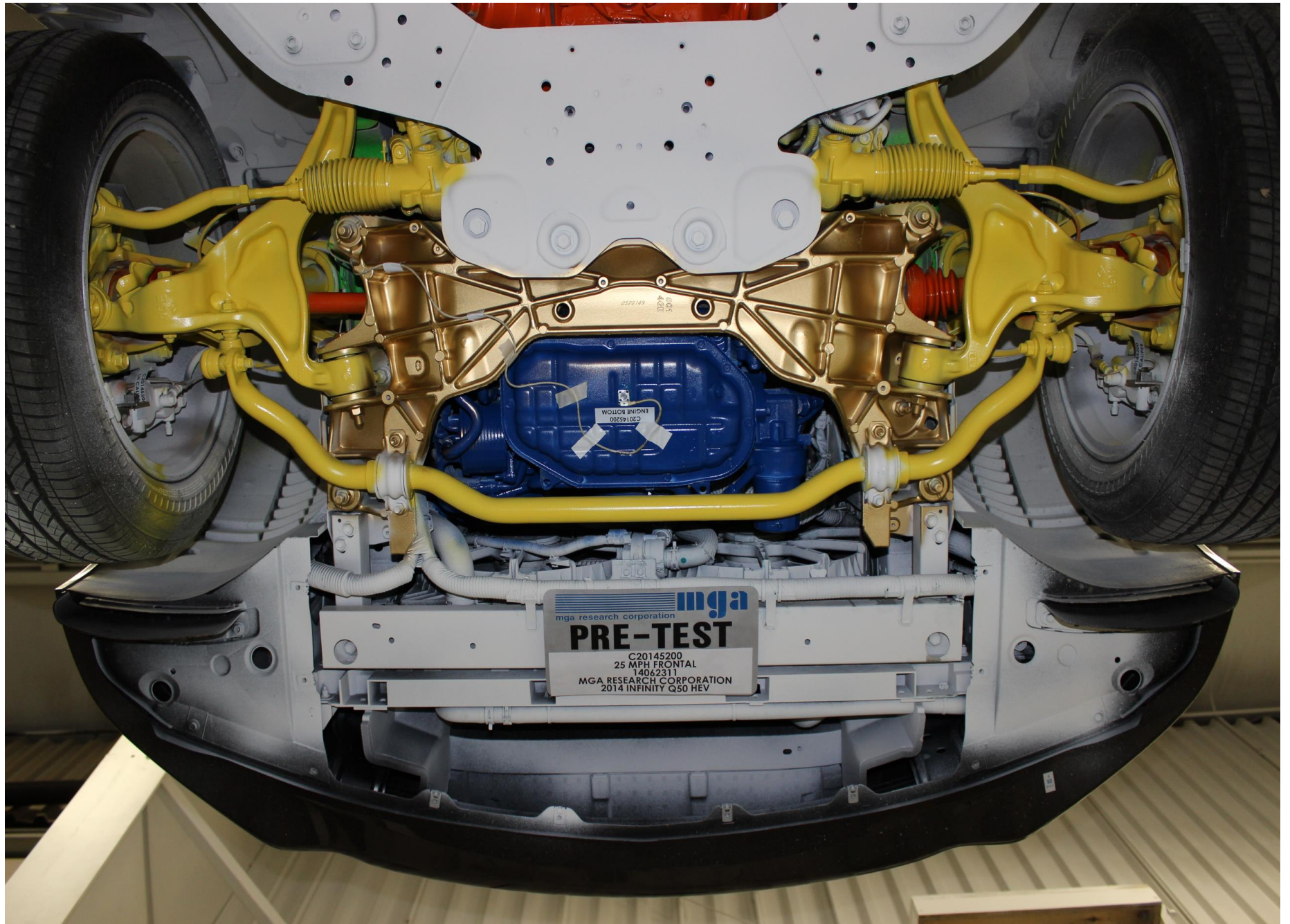
Post-Test Engine Compartment View



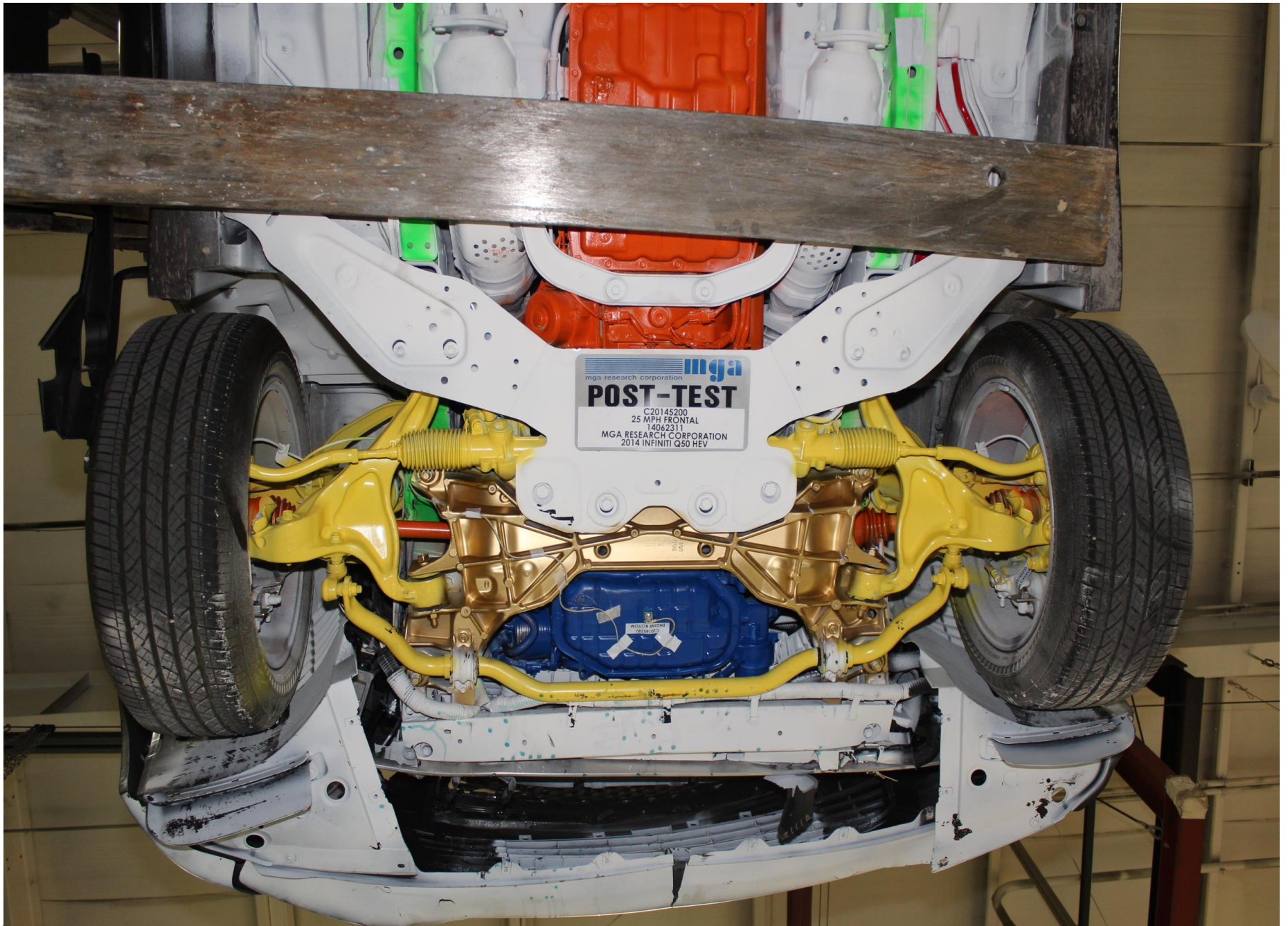
Pre-Test Fuel Filler Cap View



Post-Test Fuel Filler Cap View



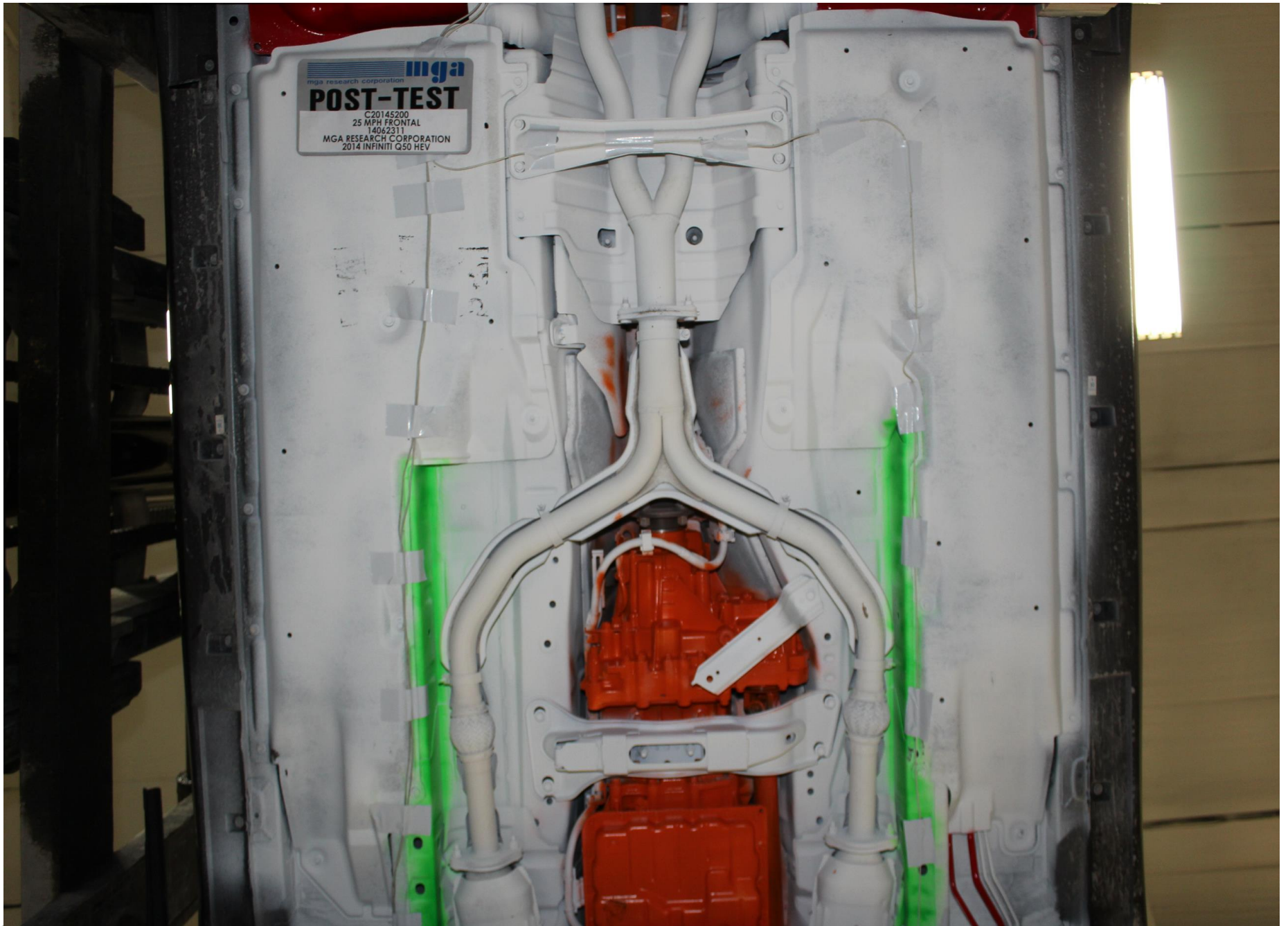
Pre-Test Front Underbody View



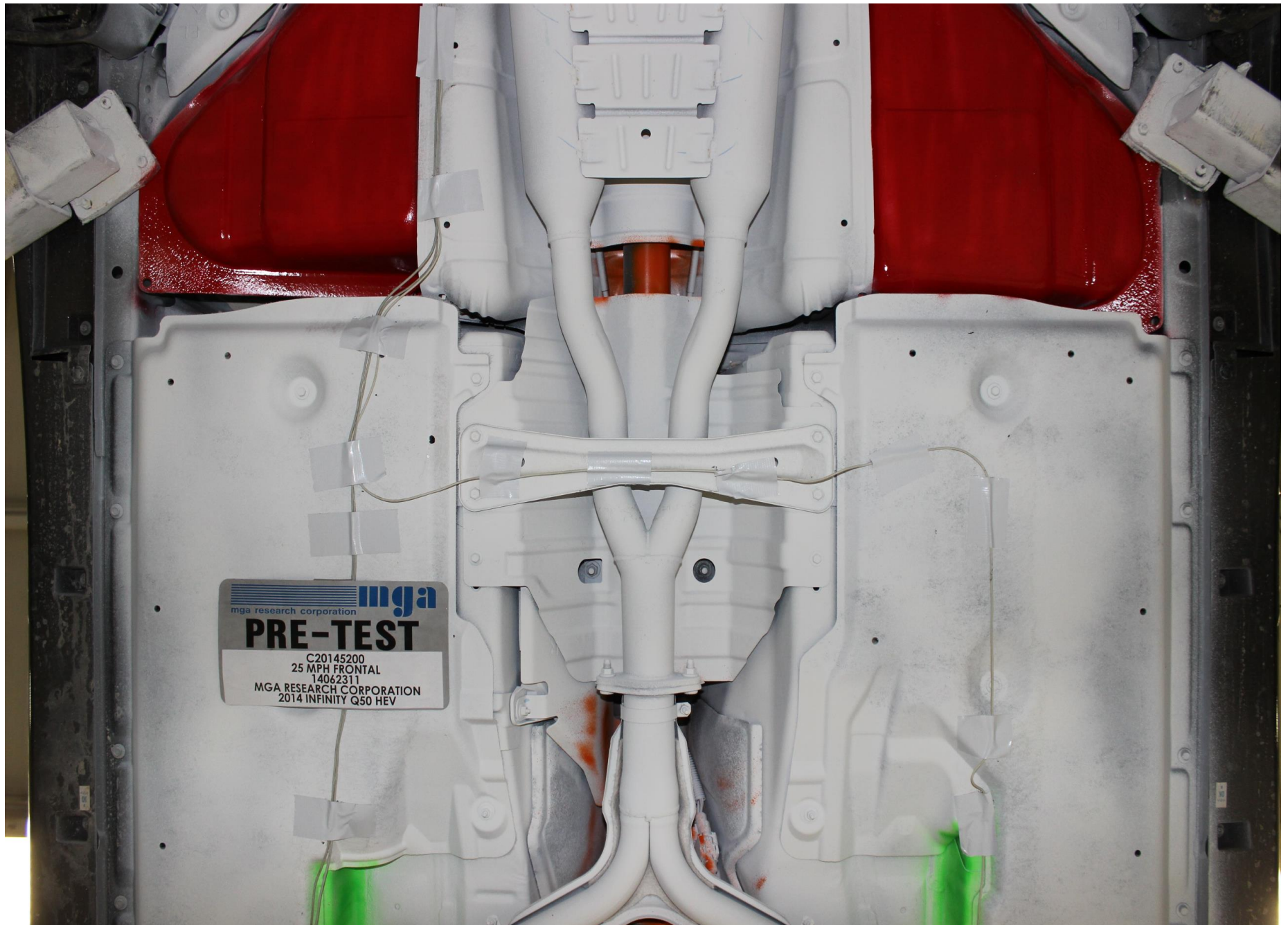
Post-Test Front Underbody View



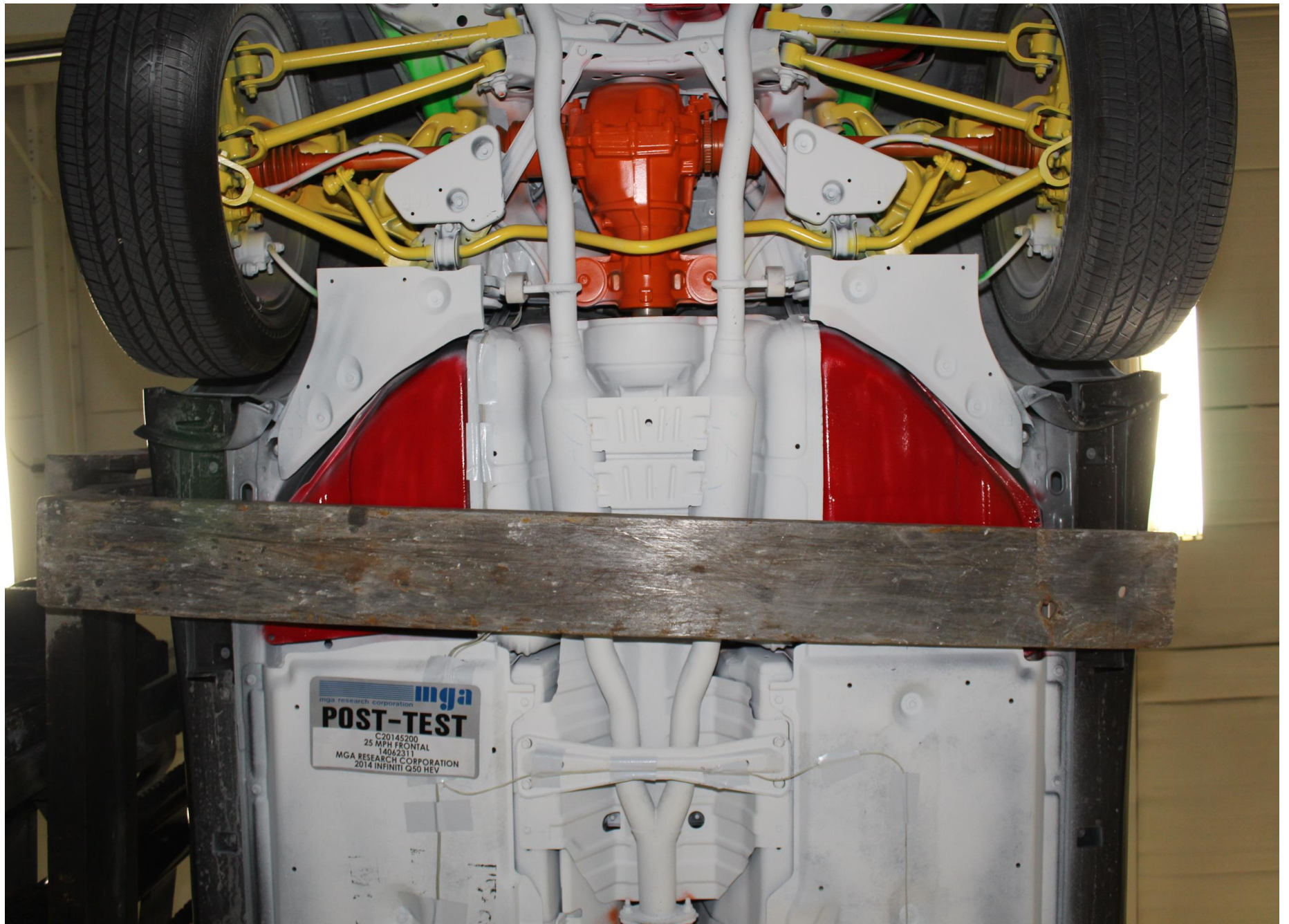
Pre-Test Mid Underbody View



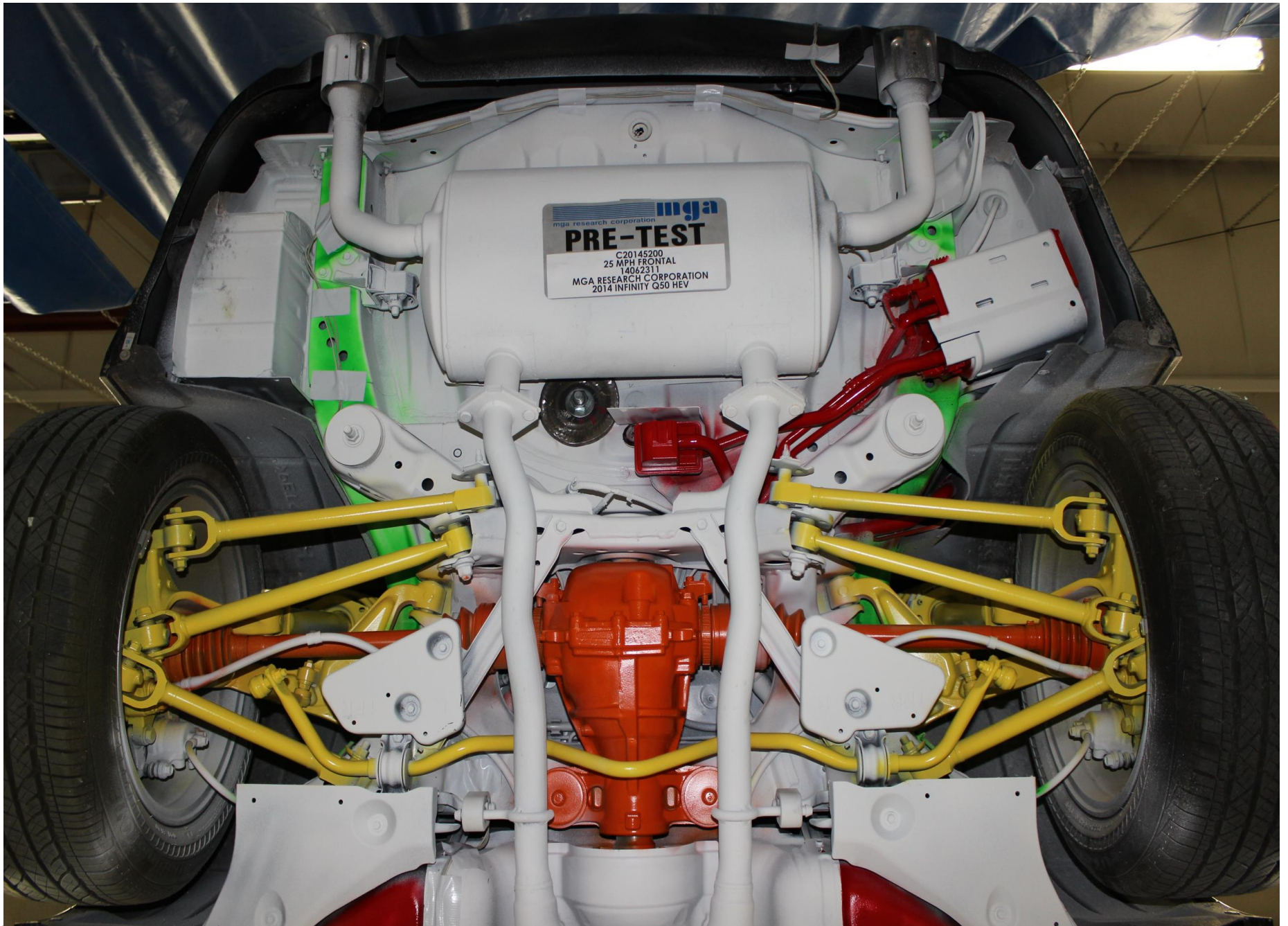
Post-Test Mid Underbody View



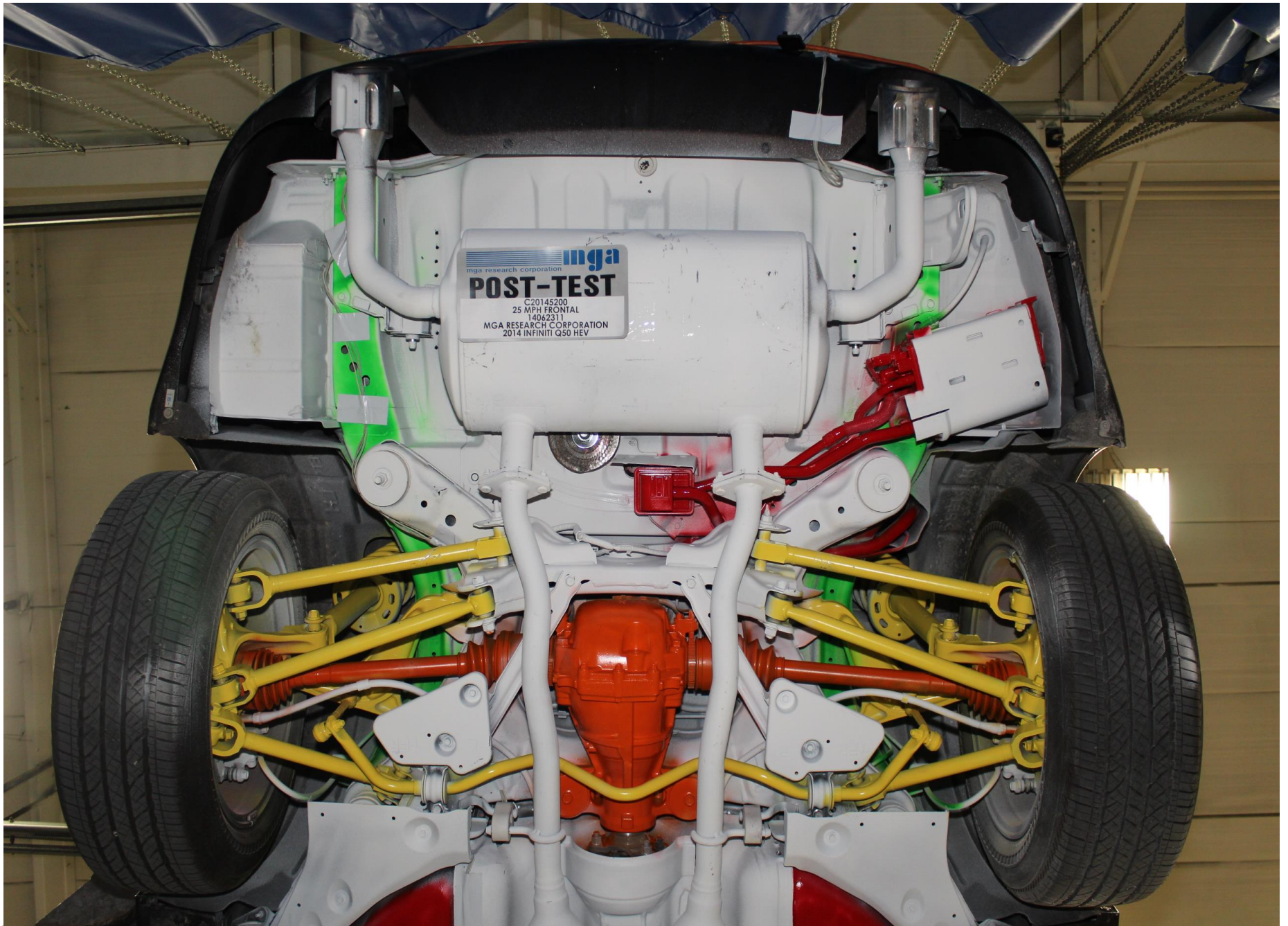
Pre-Test Mid Rear Underbody View



Post-Test Mid Rear Underbody View



Pre-Test Rear Underbody View

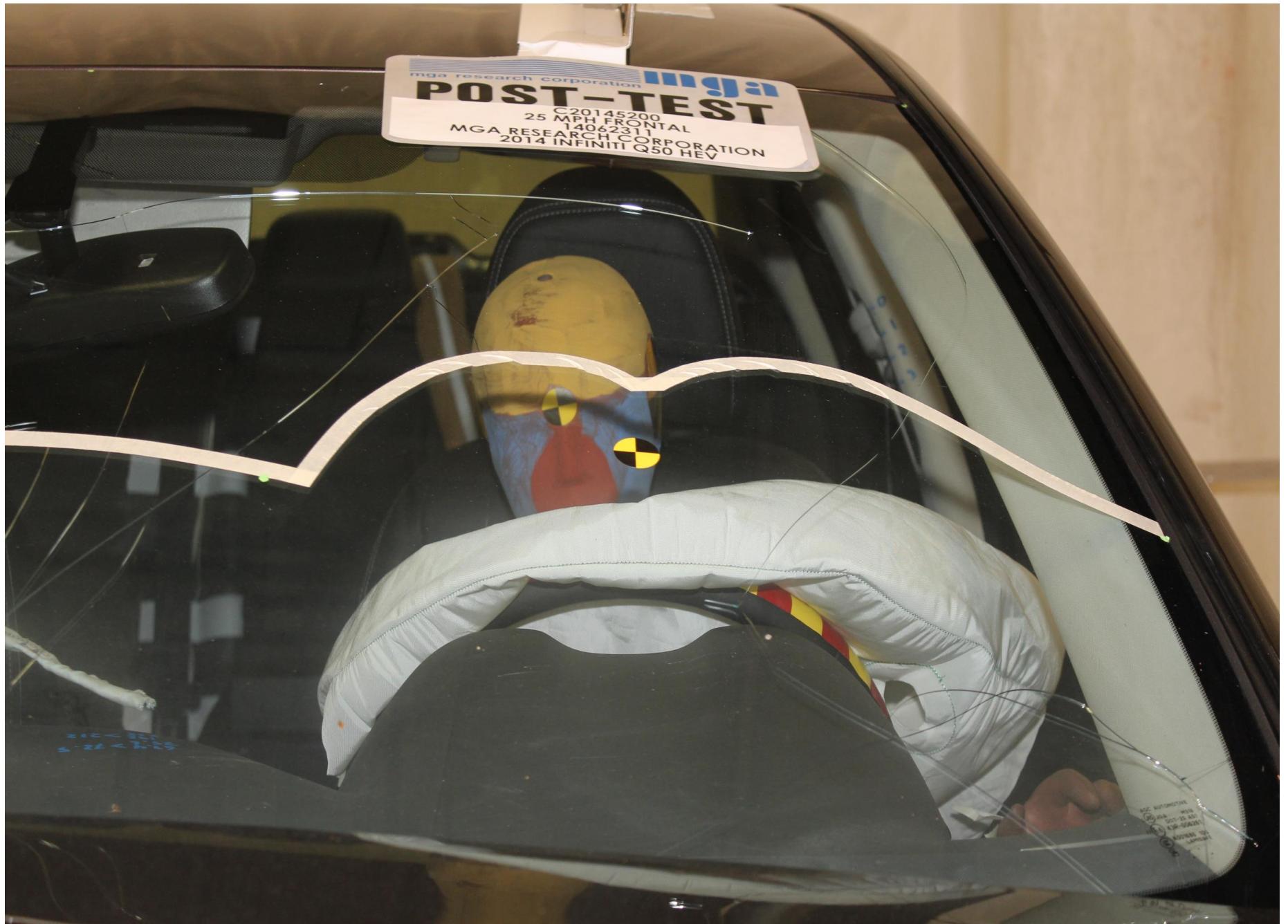


Post-Test Rear Underbody View



Pre-Test Driver Dummy Front View (head position)

C-34.



Post-Test Driver Dummy Front View (head position)



Pre-Test Driver Dummy Position Left Side View



Post-Test Driver Dummy Position Left Side View



Pre-Test Driver Dummy Position Left Side View (door open)



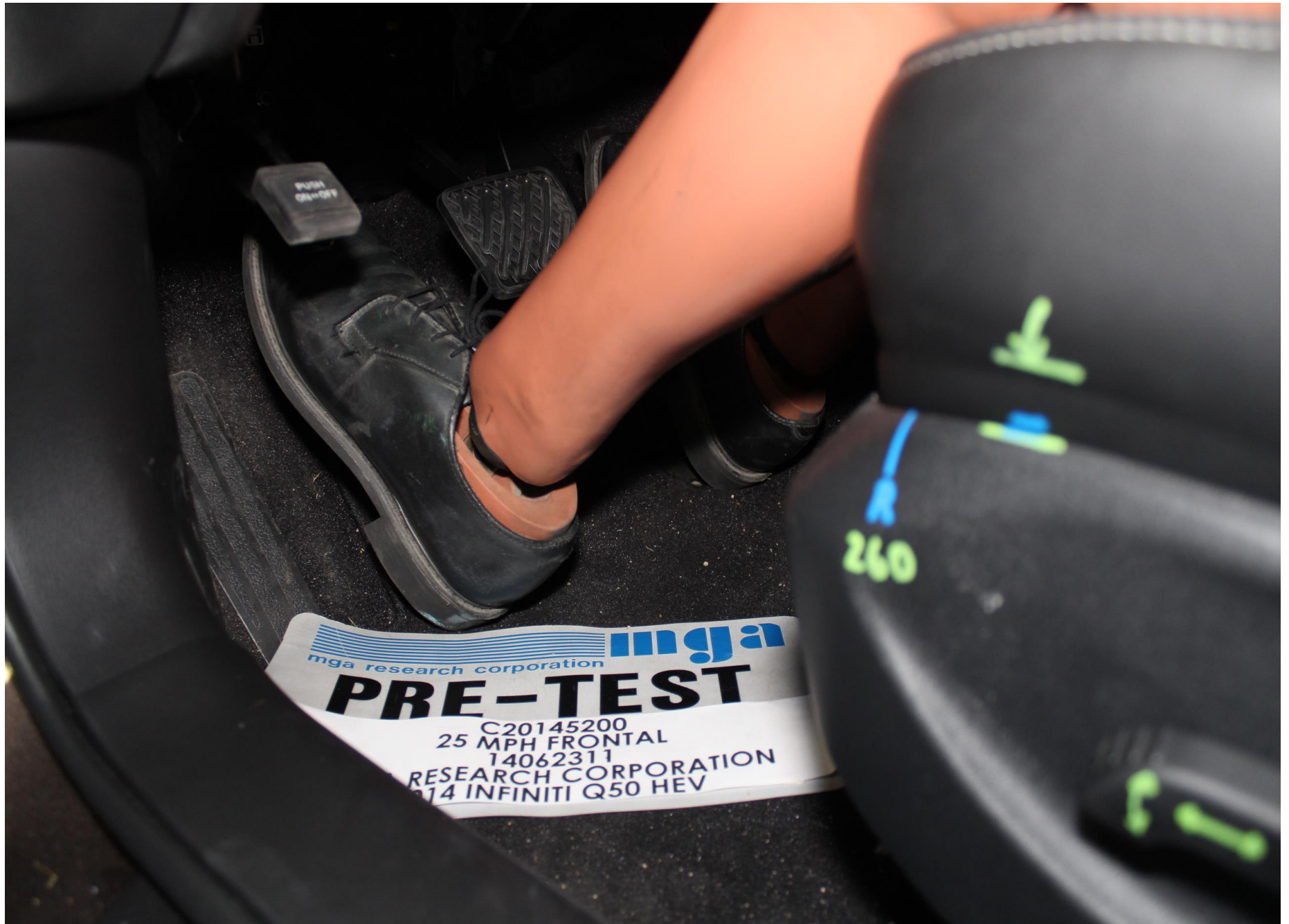
Post-Test Driver Dummy Position Left Side View (door open)



Pre-Test Driver Dummy Seat Position



Post-Test Driver Dummy Seat Position



Pre-Test Driver Dummy Feet Position



Post-Test Driver Dummy Feet Position



Pre-Test Driver Side Knee Bolster View

C-44.



Post-Test Driver Side Knee Bolster View

Post-Test Driver Dummy Airbag Contact



Post-Test Driver Dummy Head Contact (visor)

C-47.



Post-Test Driver Dummy Knee Contact (knee bolster)



Pre-Test Passenger Dummy Front View (head position)



Post-Test Passenger Dummy Front View (head position)

C-50.



Pre-Test Passenger Dummy Position Right Side View

C-51.



Post-Test Passenger Dummy Position Right Side View



Pre-Test Passenger Dummy Position Right Side View (door open)



Post-Test Passenger Dummy Position Right Side View (door open)



Pre-Test Passenger Dummy Seat Position



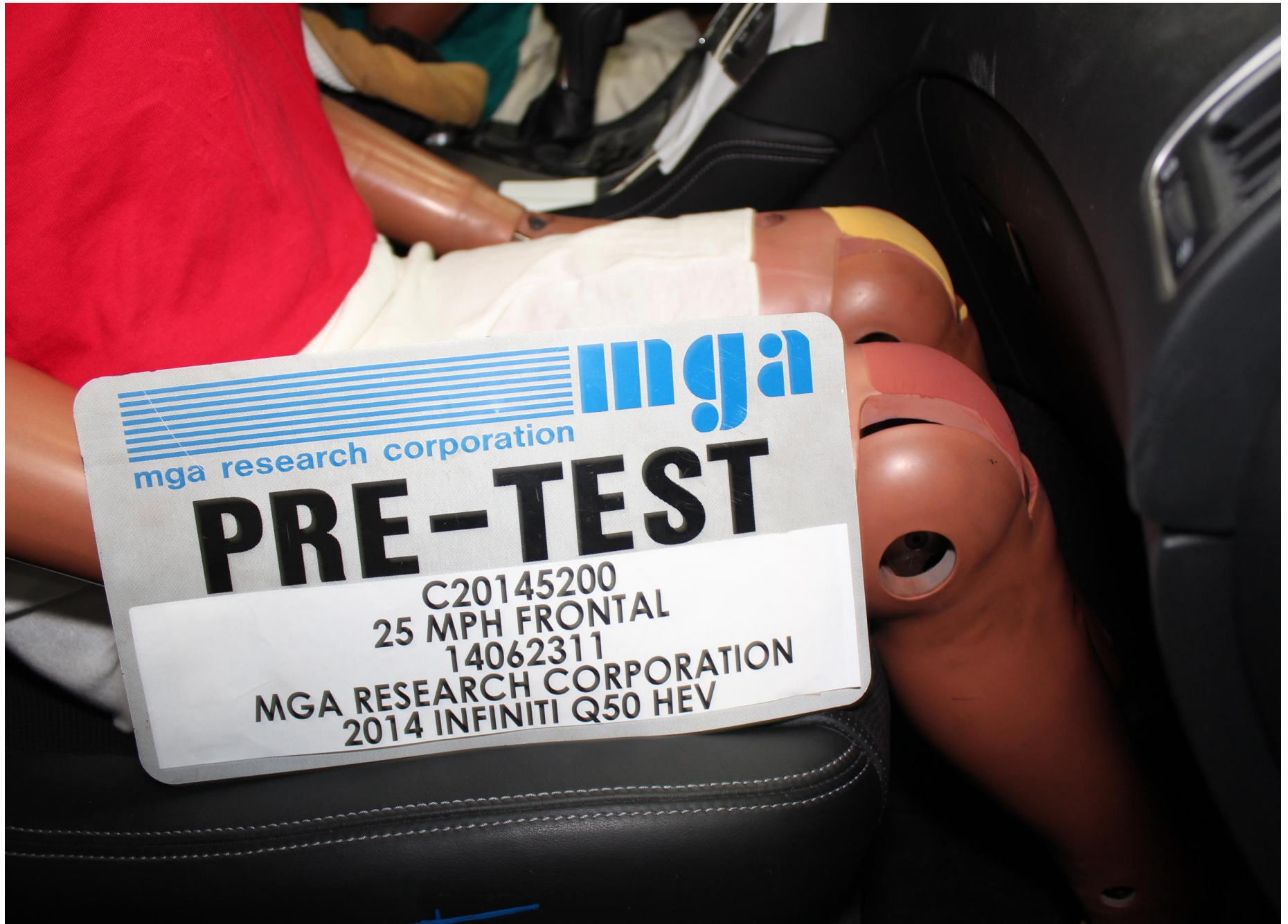
Post-Test Passenger Dummy Seat Position



Pre-Test Passenger Dummy Feet Position



Post-Test Passenger Dummy Feet Position



Pre-Test Passenger Side Knee Bolster View



Post-Test Passenger Side Knee Bolster View

C-60.



Post-Test Passenger Dummy Airbag Contact

C-61.



Post-Test Passenger Dummy Knee Contact (glove box)

C-62.

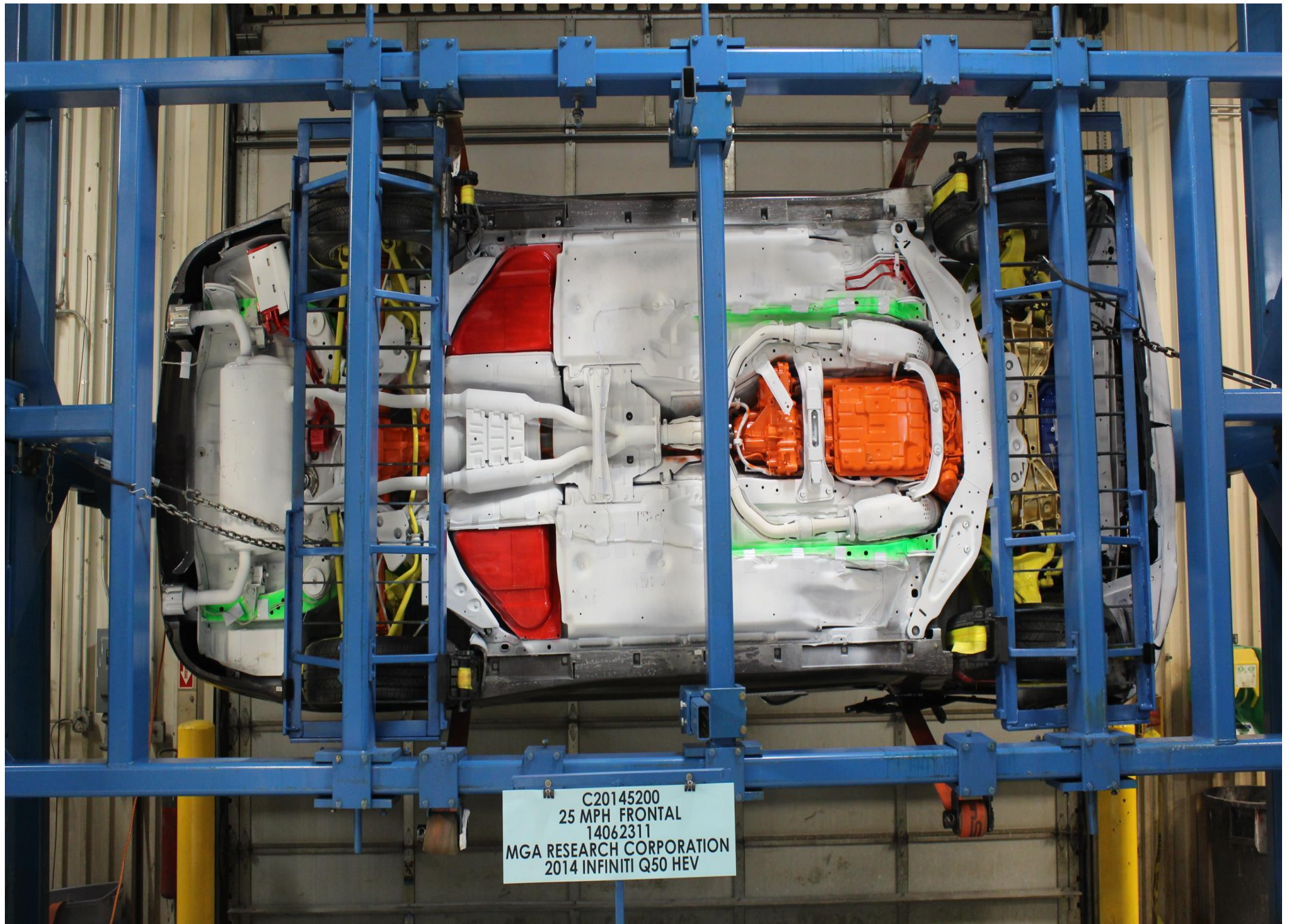


Rollover 90 Degrees



Rollover 180 Degrees

C-64.



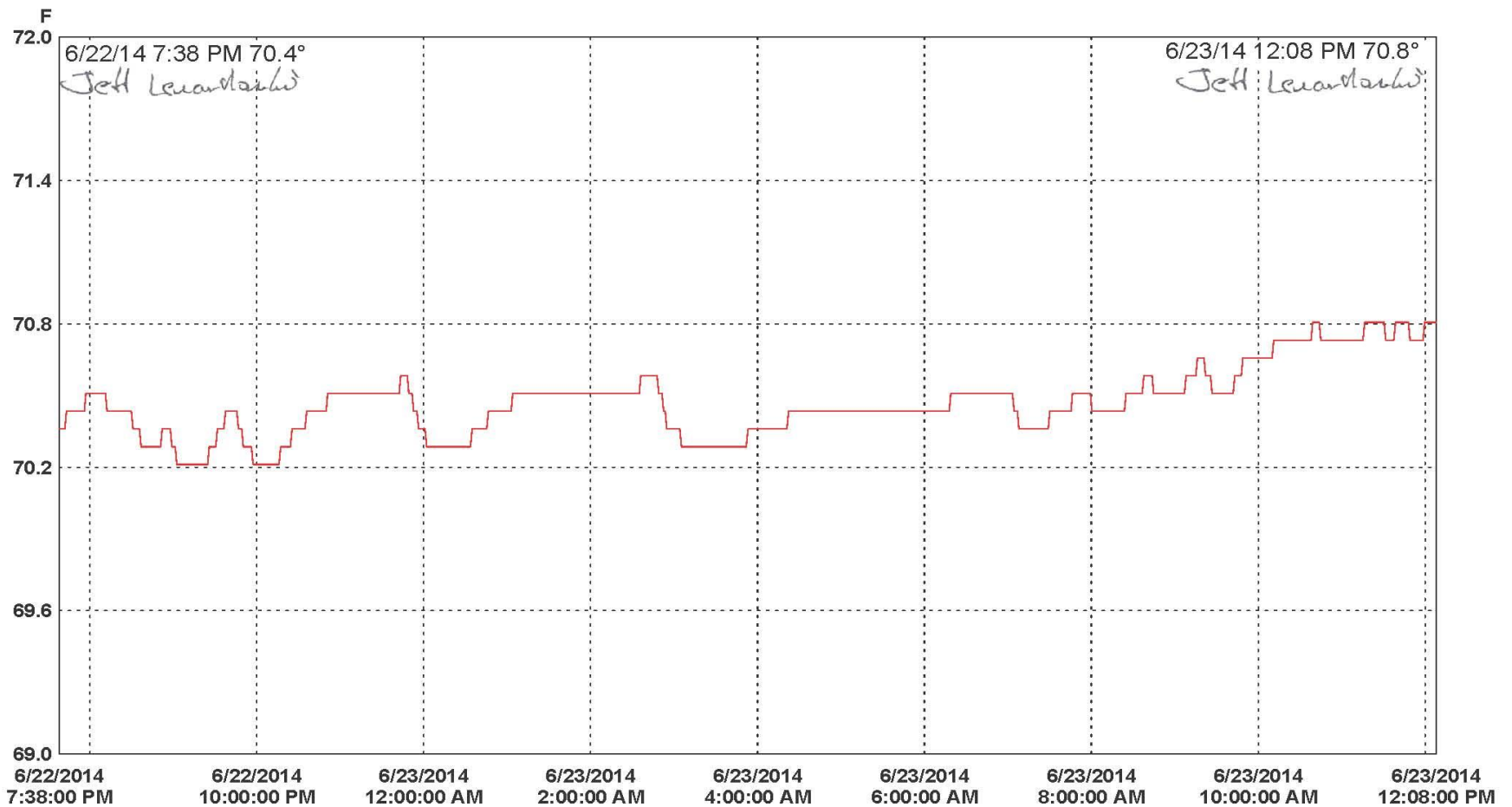
Rollover 270 Degrees

C-65.



Rollover 360 Degrees

C-66.



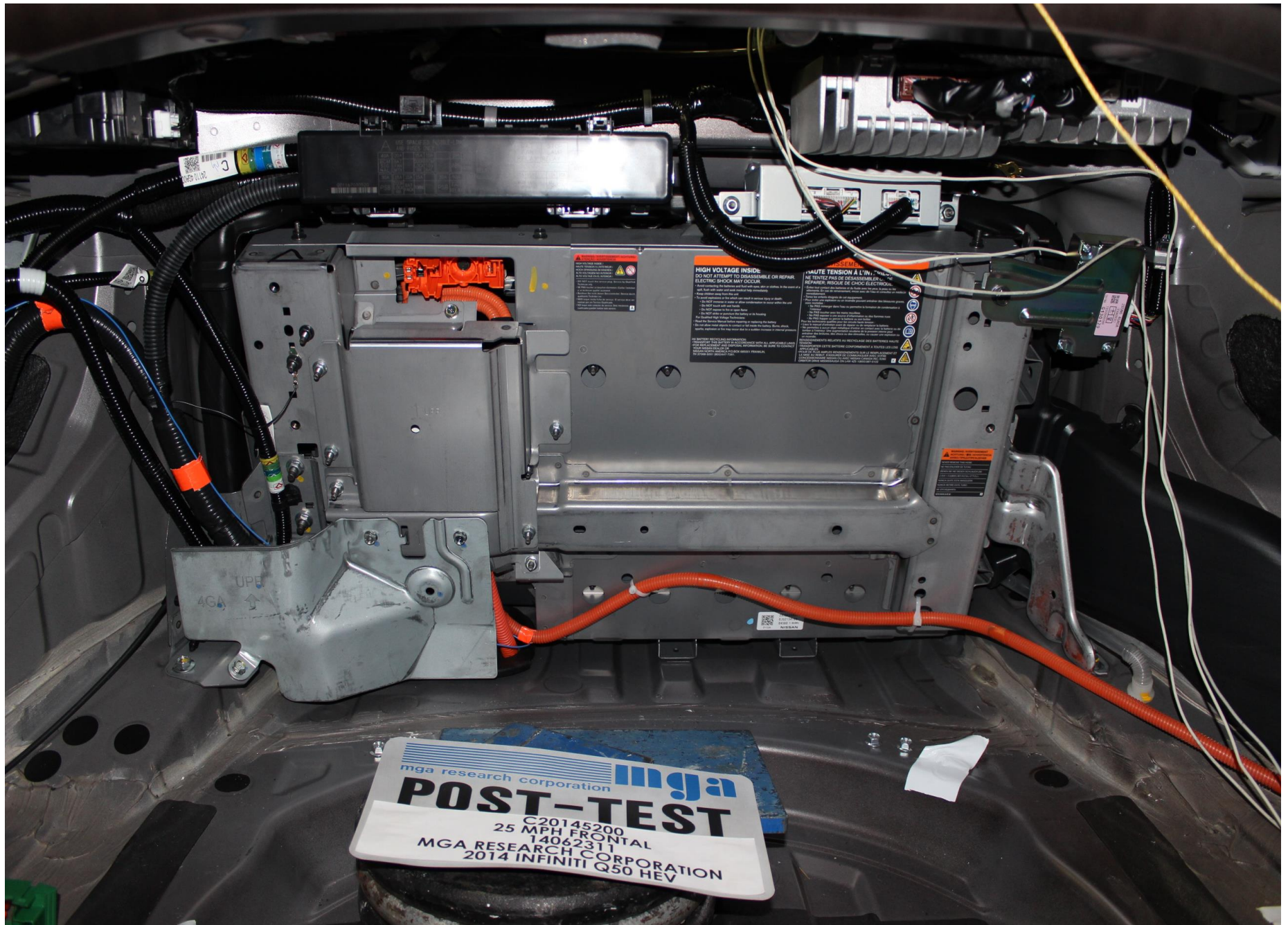
2 hours/div 16:30:00 (M/d/yyyy h:mm:ss tt) Central Time

Graph file (truncated): Infiniti Q50 6-23-14.spg

LN	Serial #	Description	CH	Value	Maximum	Average	Minimum	Units	CH description	Logger file
1	10102162	MGATemp_10102162	1		70.81	70.47	70.21	F	Temperature	10102162_MGATemp_10102162.spl
LN	Logger file									ID # Security Created by Creation time
1	C:\Program Files (x86)\Veriteq Instruments\VLLog 4.4\Prep 2014\10102162_MGATemp_10102162.spl									
LN	Serial #	Last calibrated by	Last calibration	Next calibration						
1	10102162									



Pre-Test View of Vehicle's Passenger Compartment Adjacent to Electric Energy Storage Conversion System Rear View



Post-Test View of Vehicle's Passenger Compartment Adjacent to Electric Energy Storage Conversion System Rear View



Manual High Voltage Service Disconnect Plug



Manual High Voltage Service Disconnect Plug Removed

⚠ ⚠ WARNING/AVERTISSEMENT

HIGH VOLTAGE INSIDE

DO NOT ATTEMPT TO DISASSEMBLE OR REPAIR.
ELECTRIC SHOCK MAY OCCUR.

- Avoid contacting the batteries and fluid with eyes, skin or clothes. In the event of a spill, flush with water and seek medical help immediately.
- Keep children away from this unit
- To avoid explosions or fire which can result in serious injury or death:
 - Do NOT immerse in water or allow condensation to occur within the unit
 - Do NOT touch with wet hands
 - Do NOT expose to fire or open flame
 - Do NOT strike or puncture the battery or its housing

For Qualified High Voltage Technicians:

- Read the Service Manual before repairing or replacing the battery
- Do not allow metal objects to contact or fall inside the battery. Burns, shock, sparks, explosion or fire may occur due to a sudden increase in internal pressure.

HV BATTERY RECYCLING INFORMATION:

- TRANSPORT THIS BATTERY IN ACCORDANCE WITH ALL APPLICABLE LAWS.
- FOR REPLACEMENT AND DISPOSAL INFORMATION, BE SURE TO CONTACT YOUR NISSAN DEALER OR NISSAN NORTH AMERICA P.O.BOX 685001 FRANKLIN, TN 37068-5001 (800) 647-7261.

HAUTE TENSION À L'INTÉRIEUR

NE TENTEZ PAS DE DÉSASSEMBLER OU DE RÉPARER; RISQUE DE CHOC ÉLECTRIQUE.

- Évitez tout contact des batteries et du fluide avec les yeux, la peau ou les vêtements. En cas de renversement, rincez avec de l'eau et consultez un médecin immédiatement.
- Tenez les enfants éloignés de cet équipement.
- Pour éviter une explosion ou un incendie pouvant entraîner des blessures graves, voire mortelles :
 - Ne PAS immerger dans l'eau ou permettre la formation de condensation à l'intérieur
 - Ne PAS toucher avec les mains mouillées
 - Ne PAS exposer à une source d'inflammation ou des flammes nues
 - Ne PAS frapper ou percer la batterie ou son boîtier

Pour les techniciens qualifiés pour les circuits haute tension :

- Lisez le manuel d'entretien avant de réparer ou de remplacer la batterie.
- Ne permettez à aucun objet métallique d'entrer en contact avec la batterie ou de tomber à l'intérieur. Une augmentation soudaine de la pression interne peut entraîner des brûlures, des chocs ou des étincelles, ou causer une explosion ou un incendie.

RENSEIGNEMENTS RELATIFS AU RECYCLAGE DES BATTERIES HAUTE TENSION:

- TRANSPORTER CETTE BATTERIE CONFORMEMENT A TOUTES LES LOIS APPLICABLES.
- POUR DE PLUS AMPLES RENSEIGNEMENTS SUR LE REMPLACEMENT ET LA MISE AU REBUT, S'ASSURER DE COMMUNIQUER AVEC VOTRE CONCESSIONNAIRE NISSAN OU AVEC NISSAN CANADA INC, 5290 ORBITOR DRIVE MISSISSAUGA ON L4W 4Z5 1(800)387-0122



K



High Voltage Warning Label



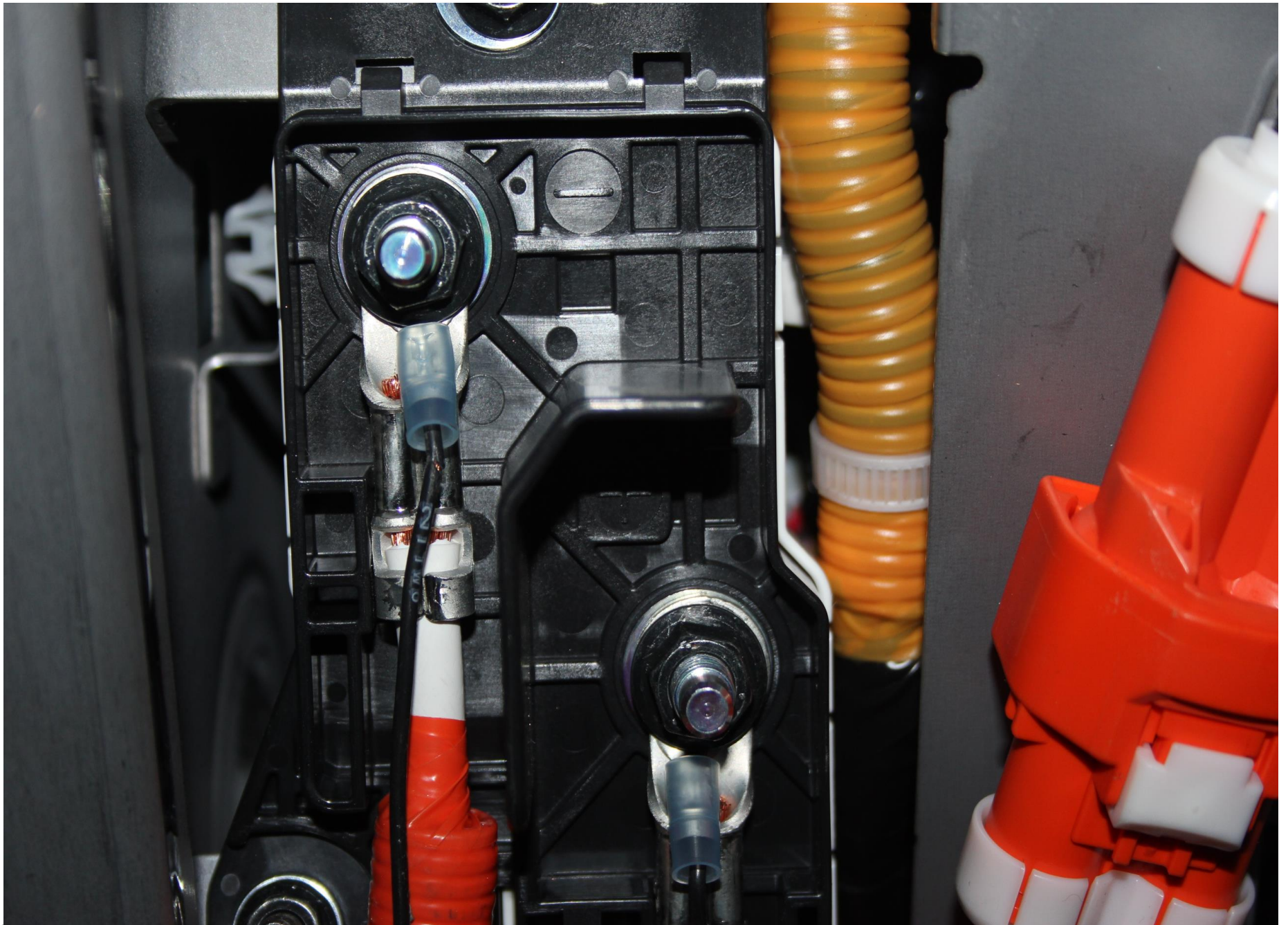
Cooling Fan Caution Label

⚠ WARNING/AVERTISSEMENT

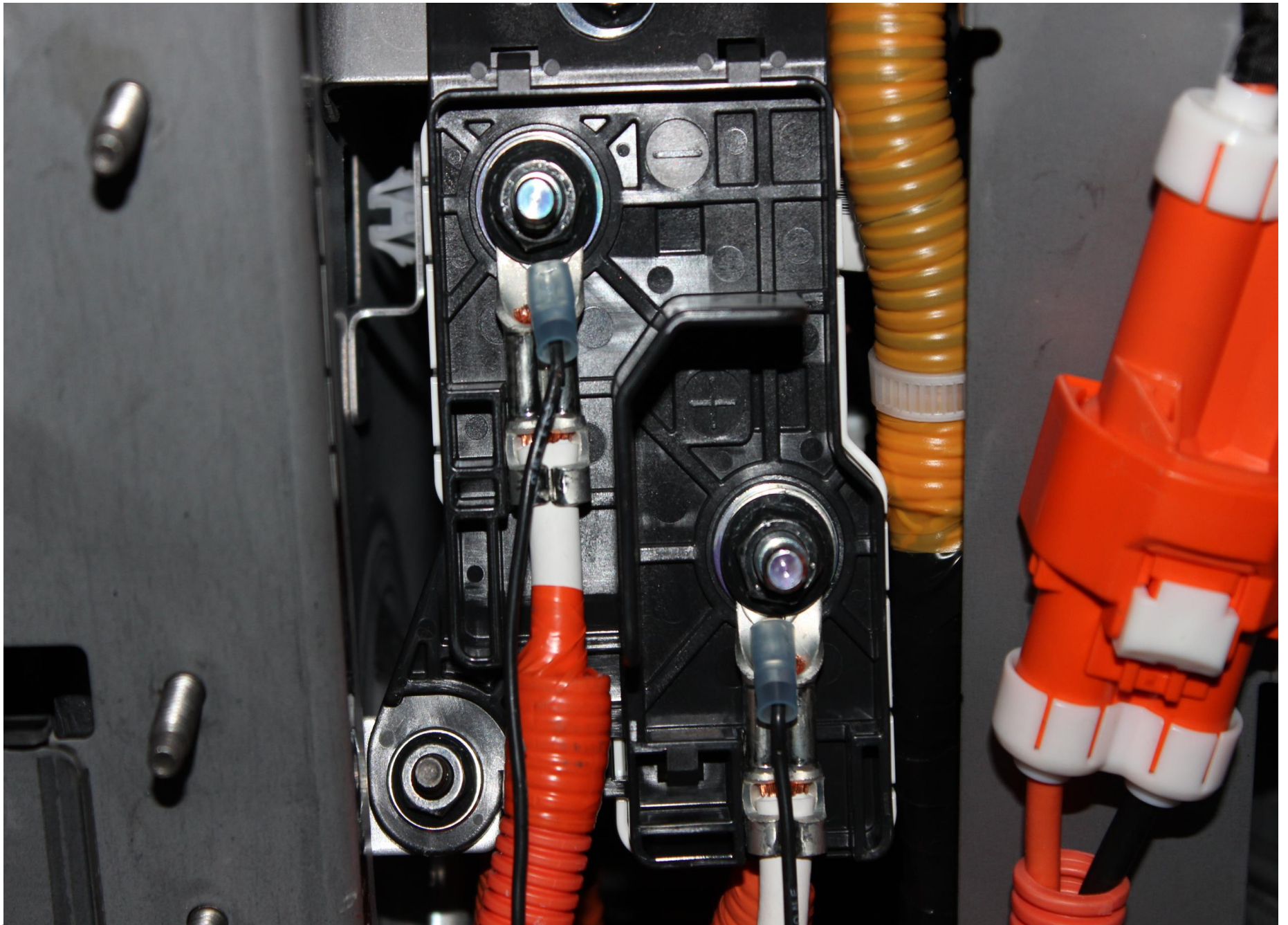
To avoid serious injury, keep clear of engine parts at all times. Engine may start at any time if the start switch and the READY lamps on the instrument panel are "ON". Make sure both lamps are "OFF" before working in the engine compartment. See Owners Manual.

Pour éviter des blessures graves, assurez-vous que les témoins START SWITCH et READY dans le tableau de bord sont éteints (OFF) avant d'entreprendre tout travail à l'intérieur du compartiment moteur. Le moteur peut démarrer à tout moment si le contacteur d'allumage est à la position ON et que les témoins READY du tableau de bord sont allumés. Assurez-vous que les deux témoins sont éteints avant de travailler dans le compartiment moteur. Reportez-vous au manuel du conducteur.

B



Pre-Test Positive and Negative Attachment Point to the Propulsion Battery System



Post-Test Positive and Negative Attachment Point to the Propulsion Battery System

APPENDIX D

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D-1.



Pre-Test 5th Fem. P1 Driver Dummy Left Side View



Post-Test 5th Fem. P1 Driver Dummy Left Side View



Pre-Test 5th Fem. P1 Driver Dummy Right Side View

D-4.



Post-Test 5th Fem. P1 Driver Dummy Right Side View

D-5.



Post-Test 5th Fem. P1 Driver Dummy Airbag Left Side View



Post-Test 5th Fem. P1 Driver Dummy Airbag Right Side View



Post-Test 5th Fem. P1 Driver Dummy Head Contact (headrest)



Pre-Test 5th Fem. P2 Driver Dummy Left Side View



Post-Test 5th Fem. P2 Driver Dummy Left Side View



Pre-Test 5th Fem. P2 Driver Dummy Right Side View

D-11.



Post-Test 5th Fem. P2 Driver Dummy Right Side View

D-12.



Post-Test 5th Fem. P2 Driver Dummy Airbag Left Side View

D-13.



Post-Test 5th Fem. P2 Driver Dummy Airbag Right Side View



Post-Test 5th Fem. P2 Driver Dummy Head Contact (headrest)



Post-Test 5th Fem. P2 Driver Dummy Head Contact (headliner/visor)

APPENDIX E

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Angel Guard Angel Ride Car Bed Belted, Forward Seat Track



Angel Guard Angel Ride Car Bed Belted, Middle Seat Track



Angel Guard Angel Ride Car Bed Belted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track



Cosco Arriva WBase, Belted, Rear Facing, Forward Seat Track



Cosco Arriva WBase, Belted, Rear Facing, Middle Seat Track



Cosco Arriva WBase, Belted, Rear Facing, Rearward Seat Track



Cosco Arriva WBase, Unbelted, Rear Facing, Forward Seat Track



Cosco Arriva WBase, Unbelted, Rear Facing, Middle Seat Track



Cosco Arriva WBase, Unbelted, Rear Facing, Rearward Seat Track



Cosco Arriva WBase, Unbelted, Forward Facing, Middle Seat Track



Cosco Arriva WBase, Unbelted, Forward Facing, Middle Seat Track



Cosco Arriva WBase, Unbelted, Forward Facing, Rearward Seat Track



Cosco Arriva WOut, Belted, Rear Facing, Forward Seat Track



Cosco Arriva WOut, Belted, Rear Facing, Middle Seat Track



Cosco Arriva WOut, Belted, Rear Facing, Rearward Seat Track



Cosco Arriva WOut, Unbelted, Rear Facing, Forward Seat Track



Cosco Arriva WOut, Unbelted, Rear Facing, Middle Seat Track



Cosco Arriva WOut, Unbelted, Rear Facing, Rearward Seat Track



Cosco Arriva WOut, Unbelted, Forward Facing, Forward Seat Track



Cosco Arriva W/Out, Unbelted, Forward Facing, Middle Seat Track



Cosco Arriva W/Out, Unbelted, Forward Facing, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track



Graco Snuggly WBase, Belted, Rear Facing, Forward Seat Track



Graco Snuggly WBase, Belted, Rear Facing, Middle Seat Track



Graco Snuggly WBase, Belted, Rear Facing, Rearward Seat Track



Graco Snuggly WBase, Unbelted, Rear Facing, Forward Seat Track



Graco Snuggly WBBase, Unbelted, Rear Facing, Middle Seat Track



Graco Snuggly WBBase, Unbelted, Rear Facing, Rearward Seat Track



Graco Snuggly WBBase, Unbelted, Forward Facing, Forward Seat Track



Graco Snuggly WBBase, Unbelted, Forward Facing, Middle Seat Track



Graco Snugride WBase, Unbelted, Forward Facing, Rearward Seat Track



Graco Snugride WOut, Belted, Rear Facing, Forward Seat Track



Graco Snugride WOut, Belted, Rear Facing, Middle Seat Track



Graco Snugride WOut, Belted, Rear Facing, Rearward Seat Track



Graco Snugride WOut, Unbelted, Rear Facing, Forward Seat Track



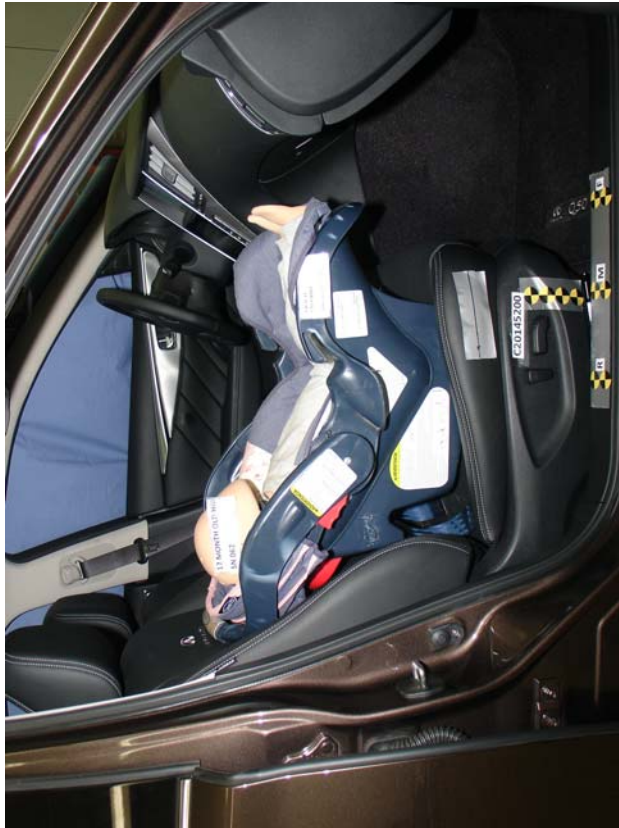
Graco Snugride WOut, Unbelted, Rear Facing, Middle Seat Track



Graco Snugride WOut, Unbelted, Rear Facing, Rearward Seat Track



Graco Snugride WOut, Unbelted, Forward Facing, Forward Seat Track



Graco Snugride WOut, Unbelted, Forward Facing, Middle Seat Track



Graco Snugride WOut, Unbelted, Forward Facing, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track



Peg Perego Viaggio WBase, Belted, Rear Facing, Forward Seat Track



Peg Perego Viaggio WBase, Belted, Rear Facing, Middle Seat Track



Peg Perego Viaggio WBase, Belted, Rear Facing, Rearward Seat Track



Peg Perego Viaggio WBase, Unbelted, Rear Facing, Forward Seat Track



Peg Perego Viaggio WBase, Unbelted, Rear Facing, Middle Seat Track



Peg Perego Viaggio WBase, Unbelted, Rear Facing, Rearward Seat Track



Peg Perego Viaggio WBase, Unbelted, Forward Facing, Forward Seat Track



Peg Perego Viaggio WBase, Unbelted, Forward Facing, Middle Seat Track



Peg Perego Viaggio WBase, Unbelted, Forward Facing, Rearward Seat Track



Peg Perego Viaggio WOut, Belted, Rear Facing, Forward Seat Track



Peg Perego Viaggio WOut, Belted, Rear Facing, Middle Seat Track



Peg Perego Viaggio WOut, Belted, Rear Facing, Rearward Seat Track



Peg Perego Viaggio WOut, Unbelted, Rear Facing, Forward Seat Track



Peg Perego Viaggio WOut, Unbelted, Rear Facing, Middle Seat Track



Peg Perego Viaggio WOut, Unbelted, Rear Facing, Rearward Seat Track



Peg Perego Viaggio WOut, Unbelted, Forward Facing, Forward Seat Track



Peg Perego Viaggio WOut, Unbelted, Forward Facing, Middle Seat Track



Peg Perego Viaggio WOut, Unbelted, Forward Facing, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track



Britax Roundabout Forward Facing, Belted, Forward Seat Track



Britax Roundabout Forward Facing, Belted, Rearward Seat Track



Britax Roundabout Forward Facing, Belted, Middle Seat Track



Britax Roundabout Forward Facing, Unbelted, Forward Seat Track



Britax Roundabout Forward Facing, Unbelted, Middle Seat Track



Britax Roundabout Forward Facing, Unbelted, Rearward Seat Track



Britax Roundabout Rear Facing, Belted, Forward Seat Track



Britax Roundabout Rear Facing, Belted, Middle Seat Track



Britax Roundabout Rear Facing, Belted, Rearward Seat Track



Britax Roundabout Rear Facing, Unbelted, Forward Seat Track



Britax Roundabout Rear Facing, Unbelted, Middle Seat Track



Britax Roundabout Rear Facing, Unbelted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track



Cosco High Back Booster Forward Facing, Belted, Forward Seat Track



Cosco High Back Booster Forward Facing, Belted, Middle Seat Track



Cosco High Back Booster Forward Facing, Belted, Rearward Seat Track



Cosco High Back Booster Forward Facing, Unbelted, Forward Seat Track



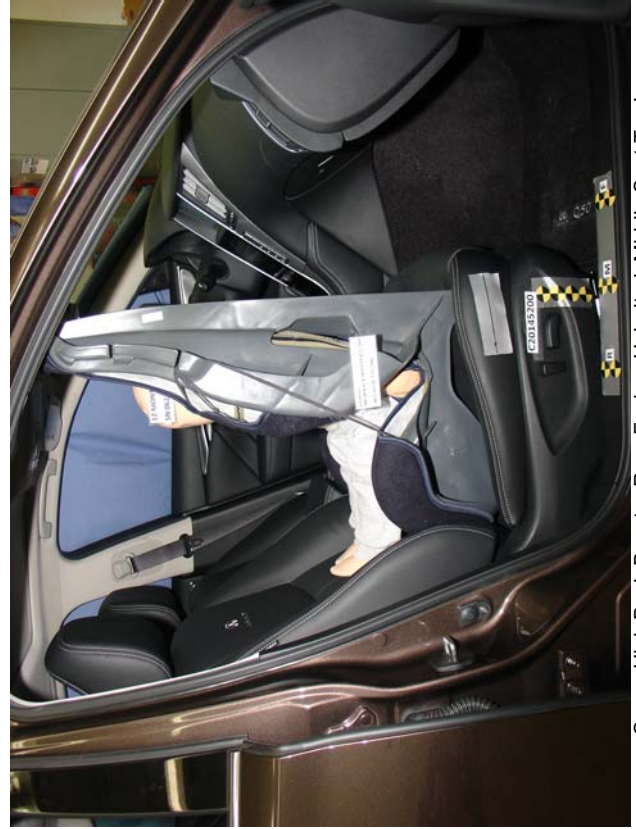
Cosco High Back Booster Forward Facing, Unbelted, Middle Seat Track



Cosco High Back Booster Forward Facing, Unbelted, Rearward Seat Track



Cosco High Back Booster Rear Facing, Unbelted, Forward Seat Track



Cosco High Back Booster Rear Facing, Unbelted, Middle Seat Track



Cosco High Back Booster Rear Facing, Unbelted, Rearward Seat Track



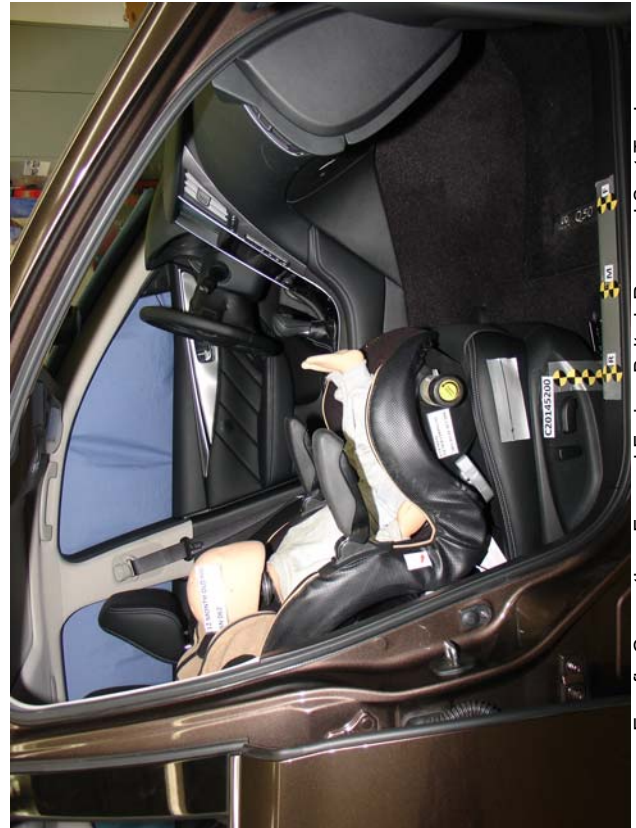
Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track



Evenflo Generations Forward Facing, Belted, Forward Seat Track



Evenflo Generations Forward Facing, Belted, Middle Seat Track



Evenflo Generations Forward Facing, Belted, Rearward Seat Track



Evenflo Generations Forward Facing, Unbelted, Forward Seat Track



Evenflo Generations Forward Facing, Unbelted, Middle Seat Track



Evenflo Generations Forward Facing, Unbelted, Rearward Seat Track



Evenflo Generations Rear Facing, Unbelted, Forward Seat Track



Evenflo Generations Rear Facing, Unbelted, Middle Seat Track



Evenflo Generations Rear Facing, Unbelted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track



Graco ComfortSport Forward Facing, Belted, Forward Seat Track



Graco ComfortSport Forward Facing, Belted, Middle Seat Track



Graco ComfortSport Forward Facing, Belted, Rearward Seat Track



Graco ComfortSport Forward Facing, Unbelted, Forward Seat Track



Graco ComfortSport Forward Facing, Unbelted, Middle Seat Track



Graco ComfortSport Forward Facing, Unbelted, Rearward Seat Track



Graco ComfortSport Rear Facing, Belted, Forward Seat Track



Graco ComfortSport Rear Facing, Belted, Middle Seat Track



Graco ComfortSport Rear Facing, Belted, Rearward Seat Track



Graco ComfortSport Rear Facing, Unbelted, Forward Seat Track



Graco ComfortSport Rear Facing, Unbelted, Middle Seat Track



Graco ComfortSport Rear Facing, Unbelted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track



3-Year-Old Forward Facing Britax Roundabout Belted, Forward Seat Track



3-Year-Old Forward Facing Britax Roundabout Belted, Middle Seat Track



3-Year-Old Forward Facing Britax Roundabout Belted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track



3-Year-Old Forward Facing Cosco High Back Belted, Forward Seat Track



3-Year-Old Forward Facing Cosco High Back Belted, Middle Seat Track



3-Year-Old Forward Facing Cosco High Back Belted, Rearward Seat Track



3-Year-Old Forward Facing Cosco High Back Cinched With Harness, Forward Seat Track



3-Year-Old Forward Facing Cosco High Back Cinched With Harness, Middle Seat Track



3-Year-Old Forward Facing Cosco High Back Cinched With Harness, Rearward Seat



Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track



3-Year-Old Forward Facing Evenflo Generations Belted, Forward Seat Track



3-Year-Old Forward Facing Evenflo Generations Belted, Middle Seat Track



3-Year-Old Forward Facing Evenflo Generations Belted, Rearward Seat Track



3-Year-Old Forward Facing Evenflo Generations Cinched With Harness, Forward Seat



3-Year-Old Forward Facing Evenflo Generations Cinched With Harness, Middle Seat



3-Year-Old Forward Facing Evenflo Generations Cinched With Harness, Rearward Seat



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track



3-Year-Old Forward Facing Graco ComfortSport Belted, Forward Seat Track



3-Year-Old Forward Facing Graco ComfortSport Belted, Middle Seat Track



3-Year-Old Forward Facing Graco ComfortSport Belted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track



3-Year-Old Cosco Summit Deluxe Belted, Forward Seat Track



3-Year-Old Cosco Summit Deluxe Belted, Middle Seat Track



3-Year-Old Cosco Summit Deluxe Belted, Rearward Seat Track



3-Year-Old Cosco Summit Deluxe Cinched With Harness, Forward Seat Track



3-Year-Old Cosco Summit Deluxe Cinched With Harness, Middle Seat Track



3-Year-Old Cosco Summit Deluxe Cinched With Harness, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track



3-Year-Old Graco Platinum Cargo Belted, Forward Seat Track



3-Year-Old Graco Platinum Cargo Belted, Middle Seat Track



3-Year-Old Graco Platinum Cargo Belted, Rearward Seat Track



3-Year-Old Graco Platinum Cargo Cinched With Harness, Forward Seat Track



3-Year-Old Graco Platinum Cargo Cinched With Harness, Middle Seat Track



3-Year-Old Graco Platinum Cargo Cinched With Harness, Rearward Seat Track



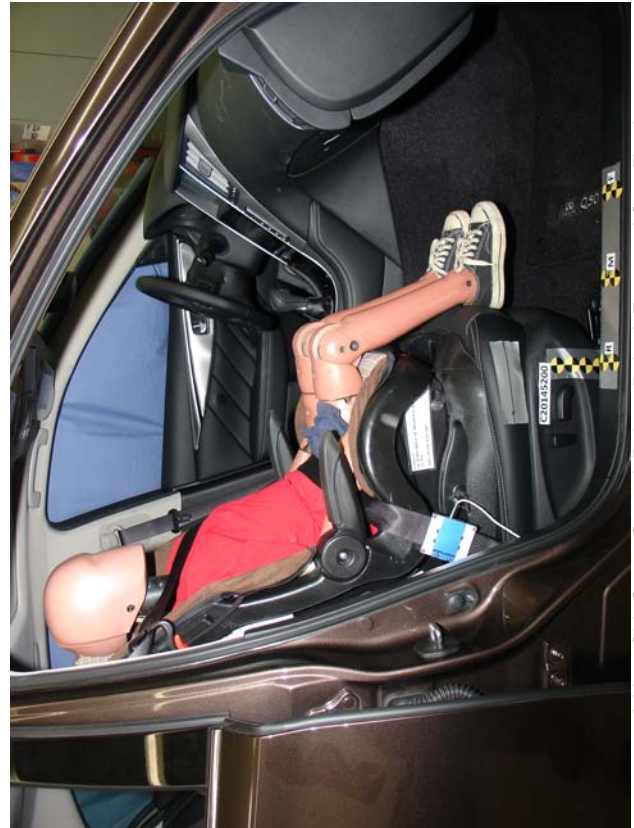
Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track



6-Year-Old Cosco Summit Deluxe Belted, Forward Seat Track



6-Year-Old Cosco Summit Deluxe Belted, Middle Seat Track



6-Year-Old Cosco Summit Deluxe Belted, Rearward Seat Track



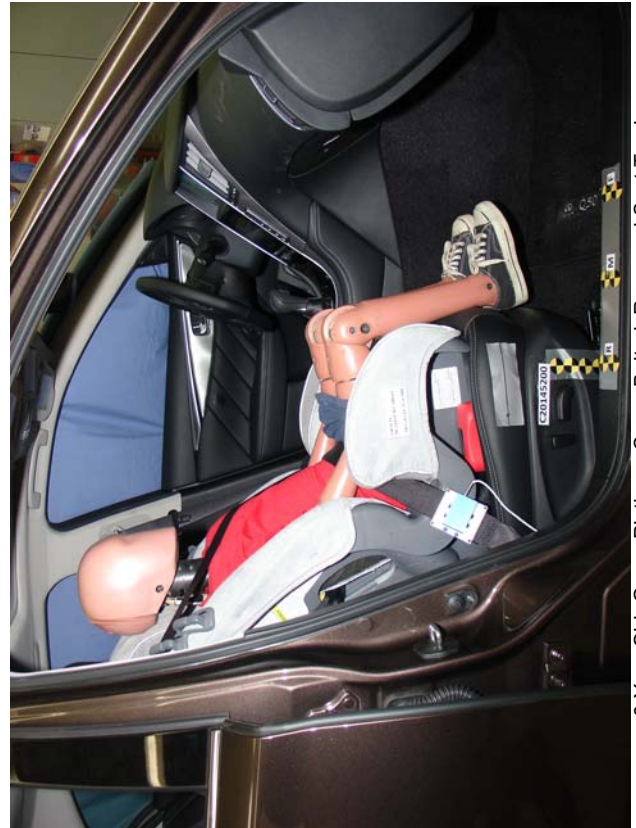
Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track



6-Year-Old Graco Platinum Cargo Belted, Forward Seat Track



6-Year-Old Graco Platinum Cargo Belted, Middle Seat Track



6-Year-Old Graco Platinum Cargo Belted, Rearward Seat Track



Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
 3 Year Old No CRS



3-Year-Old Unbelted, Forward Seat Track Position 1



3-Year-Old Unbelted, Forward Seat Track Position 2



3-Year-Old Unbelted, Forward Seat Track Position 3



3-Year-Old Unbelted, Forward Seat Track Position 4

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
 3 Year Old
 No CRS



3-Year-Old Unbelted, Forward Seat Track Position 5



3-Year-Old Unbelted, Forward Seat Track Position 6



3-Year-Old Unbelted, Forward Seat Track Position 7



3-Year-Old Unbelted, Middle Seat Track Position 1

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
 3 Year Old
 No CRS



3-Year-Old Unbelted, Middle Seat Track Position 2



3-Year-Old Unbelted, Middle Seat Track Position 3



3-Year-Old Unbelted, Middle Seat Track Position 4



3-Year-Old Unbelted, Middle Seat Track Position 5

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
 3 Year Old
 No CRS



3-Year-Old Unbelted, Middle Seat Track Position 6



3-Year-Old Unbelted, Middle Seat Track Position 7



3-Year-Old Unbelted, Rearward Seat Track Position 1



3-Year-Old Unbelted, Rearward Seat Track Position 2



3-Year-Old Unbelted, Rearward Seat Track Position 3



3-Year-Old Unbelted, Rearward Seat Track Position 4



3-Year-Old Unbelted, Rearward Seat Track Position 5



3-Year-Old Unbelted, Rearward Seat Track Position 6

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
3 Year Old
No CRS



3-Year-Old Unbelted, Rearward Seat Track Position 7



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
 6 Year Old
 No CRS



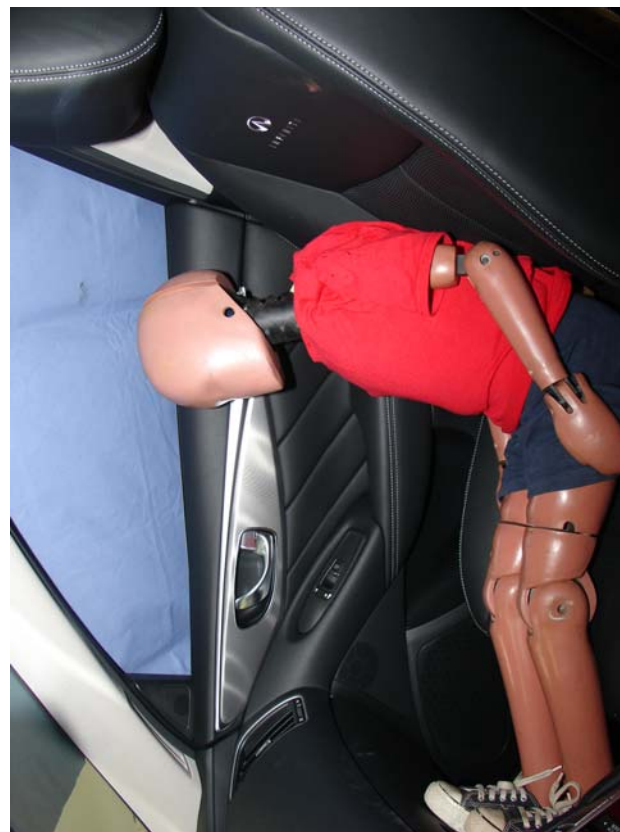
6-Year-Old Unbelted, Forward Seat Track Position 1



6-Year-Old Unbelted, Forward Seat Track Position 2



6-Year-Old Unbelted, Forward Seat Track Position 3



6-Year-Old Unbelted, Forward Seat Track Position 4

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
 6 Year Old
 No CRS



6-Year-Old Unbelted, Middle Seat Track Position 1



6-Year-Old Unbelted, Middle Seat Track Position 2



6-Year-Old Unbelted, Middle Seat Track Position 3



6-Year-Old Unbelted, Middle Seat Track Position 4



6-Year-Old Unbelted, Rearward Seat Track Position 1



6-Year-Old Unbelted, Rearward Seat Track Position 2



6-Year-Old Unbelted, Rearward Seat Track Position 3



6-Year-Old Unbelted, Rearward Seat Track Position 4

DOT/NHTSA 208 Suppression Test - 2014 Infiniti Q50 HEV (C20145200)
6 Year Old
No CRS



Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track



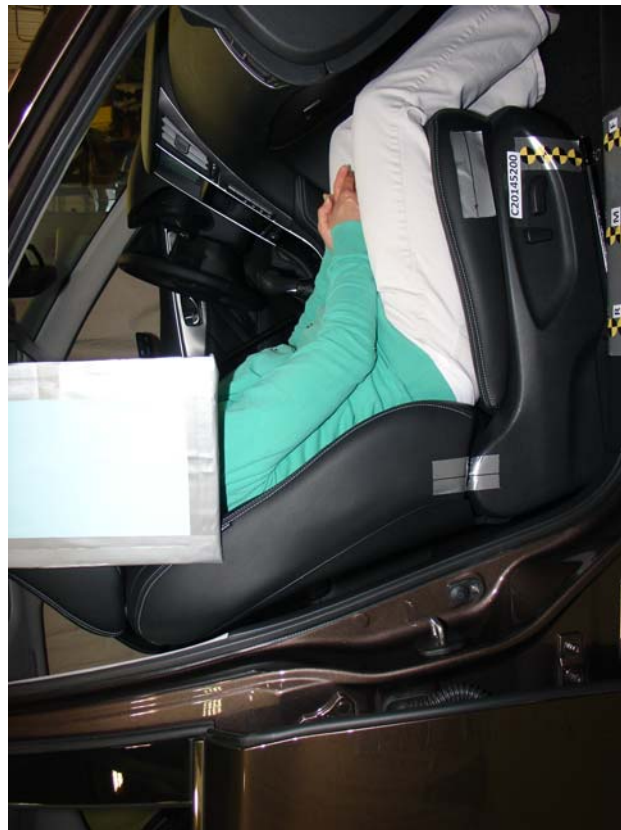
Angel Guard Angel Ride Car Bed Belted, Forward Seat Track



Angel Guard Angel Ride Car Bed Belted, Middle Seat Track



Angel Guard Angel Ride Car Bed Belted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track



Cosco Summit Deluxe Forward Facing, Belted, Forward Seat Track



Cosco Summit Deluxe Forward Facing, Belted, Middle Seat Track



Cosco Summit Deluxe Forward Facing, Belted, Rearward Seat Track



Cosco Summit Deluxe Forward Facing, Unbelted, Forward Seat Track



Cosco Summit Deluxe Forward Facing, Unbelted, Middle Seat Track



Cosco Summit Deluxe Forward Facing, Unbelted, Rearward Seat Track



Cosco Summit Deluxe Rear Facing, Unbelted, Middle Seat Track



Cosco Summit Deluxe Rear Facing, Unbelted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track



Evenflo Tribute Forward Facing, Belted, Forward Seat Track



Evenflo Tribute Forward Facing, Belted, Middle Seat Track



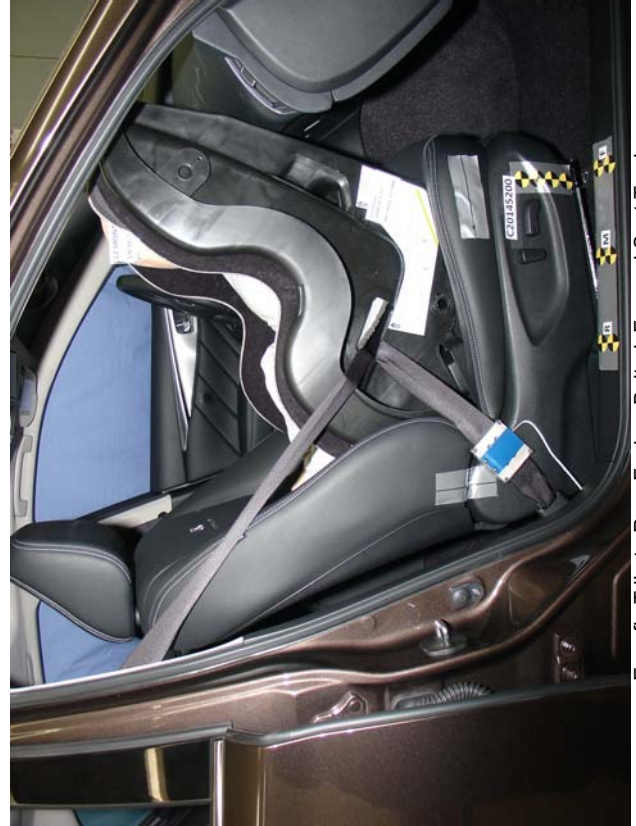
Evenflo Tribute Forward Facing, Belted, Rearward Seat Track



Evenflo Tribute Forward Facing, Unbelted, Forward Seat Track



Evenflo Tribute Forward Facing, Unbelted, Middle Seat Track



Evenflo Tribute Rear Facing, Belted, Forward Seat Track



Evenflo Tribute Forward Facing, Unbelted, Rearward Seat Track



Evenflo Tribute Rear Facing, Belted, Middle Seat Track



Evenflo Tribute Rear Facing, Belted, Rearward Seat Track



Evenflo Tribute Rear Facing, Unbelted, Middle Seat Track



Evenflo Tribute Rear Facing, Unbelted, Forward Seat Track



Evenflo Tribute Rear Facing, Unbelted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Rearward Seat Track



Graco Toddler Safeseat Step 2 Forward Facing, Belted, Forward Seat Track



Graco Toddler Safeseat Step 2 Forward Facing, Belted, Middle Seat Track



Graco Toddler Safeseat Step 2 Forward Facing, Belted, Rearward Seat Track



Graco Toddler Safeseat Step 2 Forward Facing, Unbelted, Forward Seat Track



Graco Toddler Safeseat Step 2 Forward Facing, Unbelted, Middle Seat Track



Graco Toddler Safeseat Step 2 Forward Facing, Unbelted, Rearward Seat Track



Graco Toddler Safeseat Step 2 Rear Facing, Unbelted, Middle Seat Track



Graco Toddler Safeseat Step 2 Rear Facing, Unbelted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Rearward Seat Track



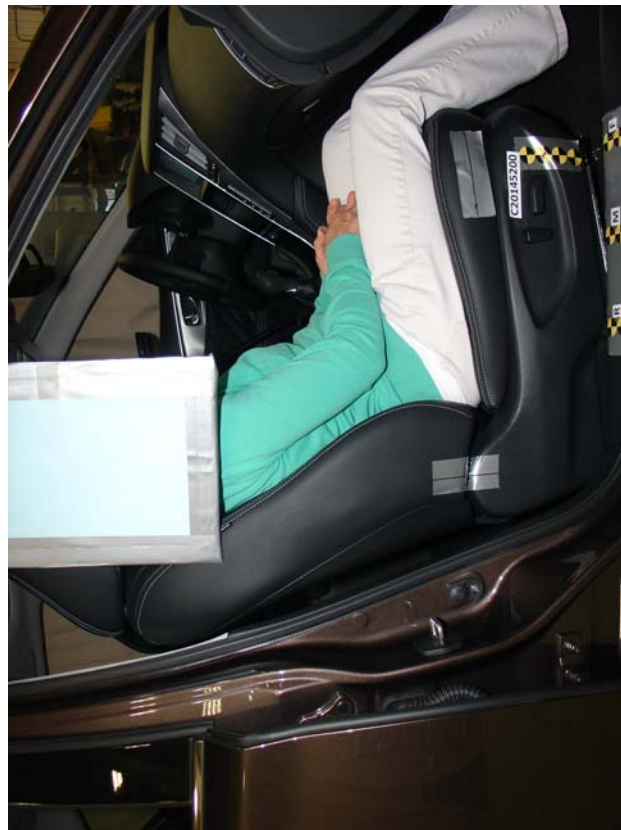
3-Year-Old Forward Facing Evenflo Tribute Belted, Forward Seat Track



3-Year-Old Forward Facing Evenflo Tribute Belted, Middle Seat Track



3-Year-Old Forward Facing Evenflo Tribute Belted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track



3-Year-Old Forward Facing Graco Toddler Safeseat Step 2 Belted, Forward Seat Track



3-Year-Old Forward Facing Graco Toddler Safeseat Step 2 Belted, Middle Seat Track



3-Year-Old Forward Facing Graco Toddler Safeseat Step 2 Belted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track



3-Year-Old Cosco High Back Booster Belted, Forward Seat Track



3-Year-Old Cosco High Back Booster Belted, Middle Seat Track



3-Year-Old Cosco High Back Booster Belted, Rearward Seat Track



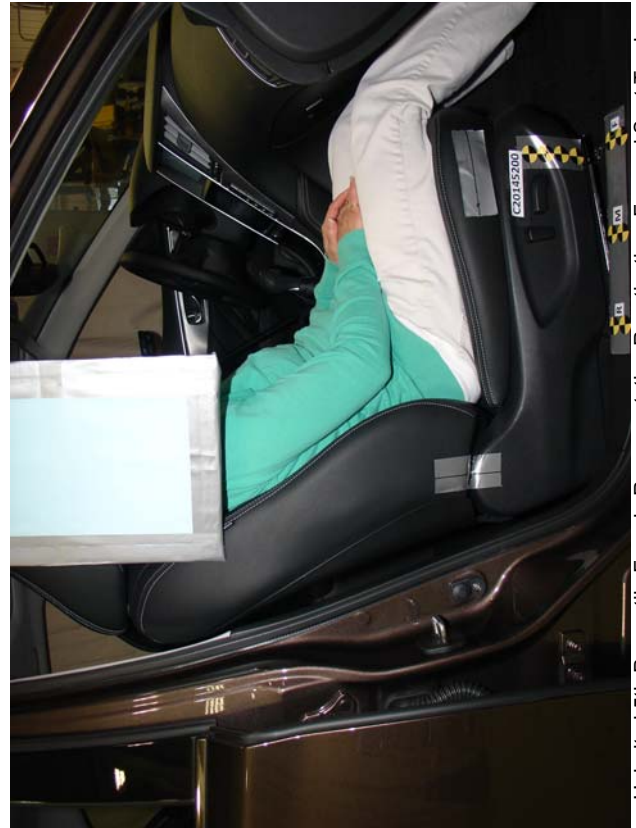
3-Year-Old Cosco High Back Booster Cinched With Harness, Forward Seat Track



3-Year-Old Cosco High Back Booster Cinched With Harness, Middle Seat Track



3-Year-Old Cosco High Back Booster Cinched With Harness, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track



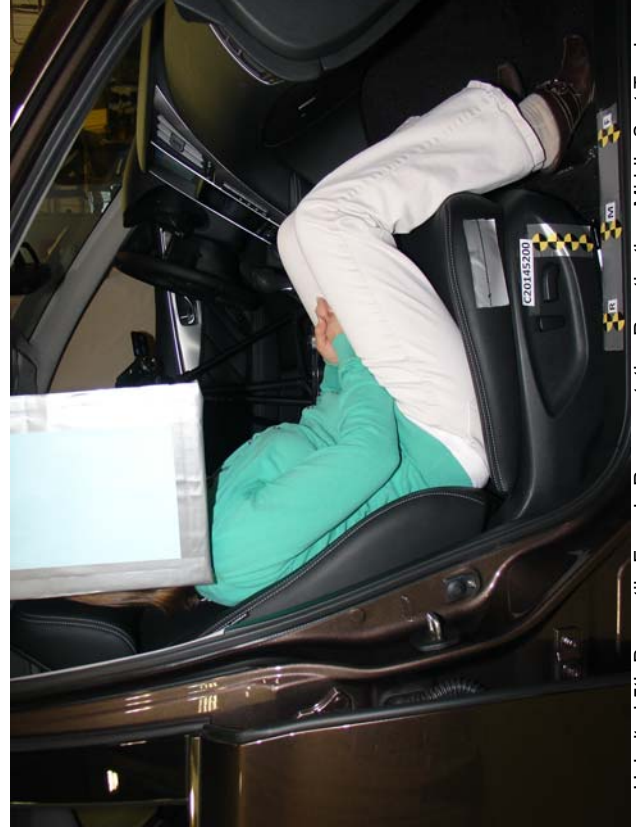
6-Year-Old Cosco High Back Booster Belted, Forward Seat Track



6-Year-Old Cosco High Back Booster Belted, Middle Seat Track



6-Year-Old Cosco High Back Booster Belted, Rearward Seat Track



Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track

APPENDIX F

INSTRUMENTATION CALIBRATION

INSTRUMENTS FOR DRIVER DUMMY NO.: 124

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	P77650	Endevco	01/16/14
Head Y	P77651	Endevco	01/16/14
Head Z	P77653	Endevco	01/16/14
Neck Load Cell	N2320	Denton	05/30/14
Chest X	P78817	Endevco	01/16/14
Chest Y	P78822	Endevco	01/16/14
Chest Z	P78825	Endevco	01/16/14
Chest Displacement	124	Servo	01/20/14
Left Femur Load Cell	F1362	Denton	04/23/14
Right Femur Load Cell	F1361	Denton	04/23/14

INSTRUMENTS FOR PASSENGER DUMMY NO.: 125

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	P82603	Endevco	02/04/14
Head Y	P82604	Endevco	02/04/14
Head Z	P82605	Endevco	02/04/14
Neck Load Cell	N1673	Denton	05/27/14
Chest X	P82607	Endevco	02/04/14
Chest Y	P82609	Endevco	02/04/14
Chest Z	P82610	Endevco	02/04/14
Chest Displacement	125	Servo	02/10/14
Left Femur Load Cell	F2025	Denton	01/20/14
Right Femur Load Cell	F2024	Denton	01/20/14

INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO.: 510 (P1 & P2)

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	P78269	Endevco	02/18/14
Head Y	P79852	Endevco	02/18/14
Head Z	P79856	Endevco	02/18/14
Neck Load Cell	N1206	Denton	11/12/13
Chest X	P79634	Endevco	02/18/14
Chest Y	P79635	Endevco	02/18/14
Chest Z	P79636	Endevco	02/18/14
Chest Displacement	510	Servo	02/18/14
Left Femur Load Cell	F799	Denton	12/31/13
Right Femur Load Cell	F737	Denton	01/02/14

VEHICLE INSTRUMENTS

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Rear Seat Crossmember X	P74321	Endevco	01/14/14
Right Rear Seat Crossmember X	P78766	Endevco	05/07/14
Top of Engine X	P66842	Endevco	05/30/14
Bottom of Engine X	P78955	Endevco	05/07/14
Left Brake Caliper X	P78869	Endevco	05/07/14
Right Brake Caliper X	P73958	Endevco	05/16/14
Instrument Panel X	P73705	Endevco	03/27/14
Trunk Z	P64023	Endevco	04/23/14