

Unnamed Report

IIHS | Moderate Overlap Frontal Crashworthiness 2.0
v1 | v2 | v3

Report Status

	v1	v2	v3
Overall	OK	OK	OK
Driver	OK	OK	OK
Head and neck	OK	OK	OK
HIC 15	OK	OK	OK
Nij	OK	OK	OK
Neck axial tension	OK	OK	OK
Neck compression	OK	OK	OK
Neck tension duration corridor	OK	OK	OK
Neck compression duration corridor	OK	OK	OK
Neck shear duration corridor	OK	OK	OK
Chest	OK	OK	OK
Thoracic spine acceleration (3 ms)	OK	OK	OK
Sternum deflection	OK	OK	OK
Sternum deflection rate	OK	OK	OK
Viscous criterion	OK	OK	OK
Thigh and hip	OK	OK	OK
Left knee-thigh-hip injury risk	OK	OK	OK
Right knee-thigh-hip injury risk	OK	OK	OK
Leg and foot	OK	OK	OK

Manual Inputs

	Default	Source	v1	v2	v3
p_driver	'1'	test report	'1'	'1'	'1'
p_rear_passenger	'6'	test report	'6'	'6'	'6'
hard_contact_downgrades	0	video and head acceleration	0	0	0
demerits	0	video and postcrash inspection	0	0	0
hard_contact_over_70g	False	video and head acceleration	False	False	False
interior_contact	False	video	False	False	False
dynamic_belt_position_mm	17.0 mm	pressure mat	17.0 mm	17.0 mm	17.0 mm
demerits	0	video, pressure mat, and postcrash inspection	0	0	0
integrity_failure	False	postcrash inspection	False	False	False
intrusion_rating	4	intrusion measurements	4	4	4
qualitative_downgrades	0	postcrash inspection	0	0	0

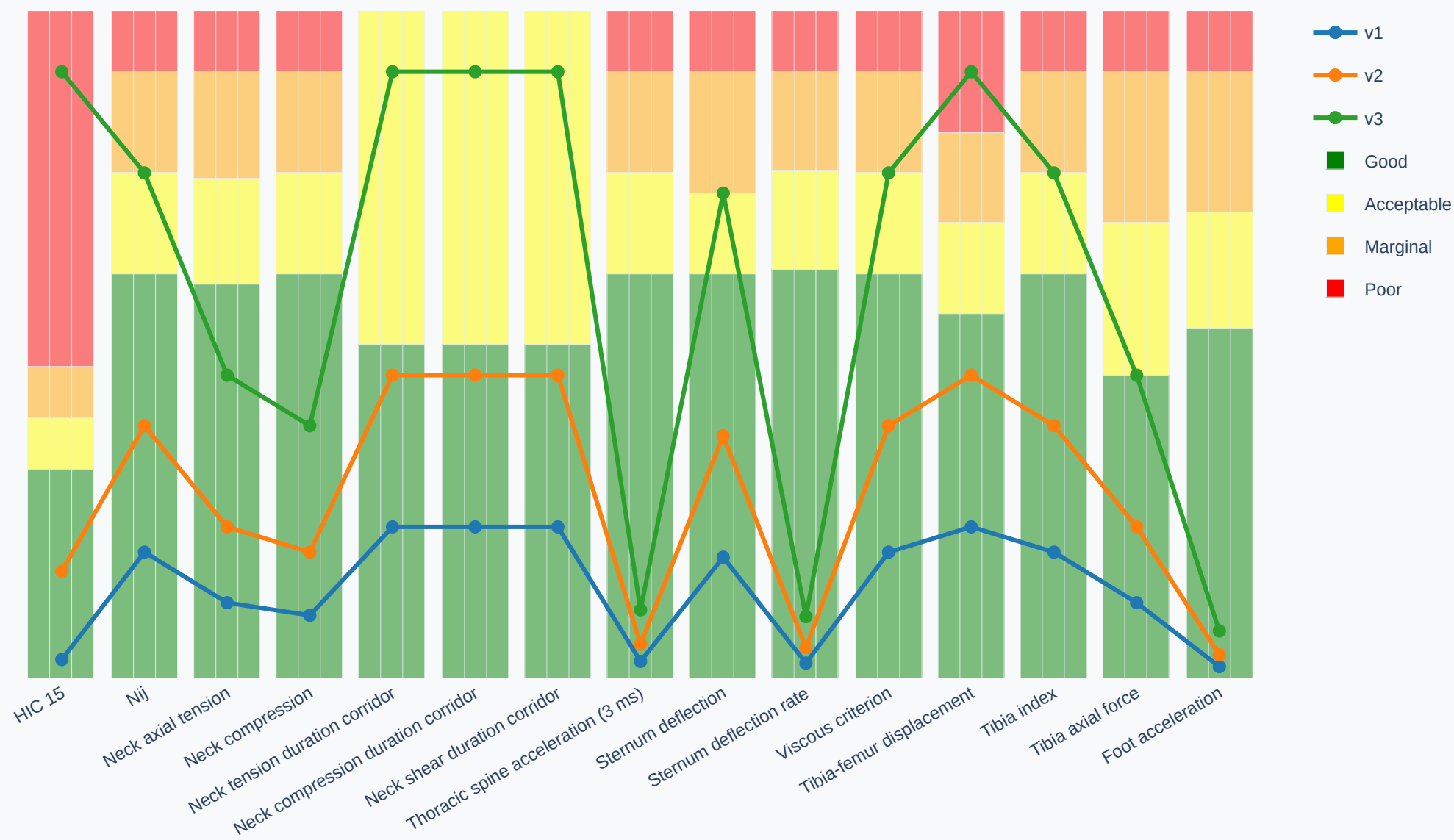
Rating

	v1	v2	v3
Overall	0.0	0.0	-58.0
Vehicle structure	0.0	0.0	0.0
Head and neck	0.0	0.0	-20.0
Chest	0.0	0.0	-10.0
Thigh and hip	0.0	0.0	0.0
Leg and foot	0.0	0.0	-6.0
Restraints and kinematics	0.0	0.0	0.0
Head and neck	0.0	0.0	-2.0
Chest	0.0	0.0	-20.0
Thigh	0.0	0.0	0.0
Restraints and kinematics	0.0	0.0	0.0

Driver Rating

	v1	v2	v3
Head and neck	0.0	0.0	-20.0
Chest	0.0	0.0	-10.0
Thigh and hip	0.0	0.0	0.0
Leg and foot	0.0	0.0	-6.0
Restraints and kinematics	0.0	0.0	0.0
Driver	0.0	0.0	-36.0

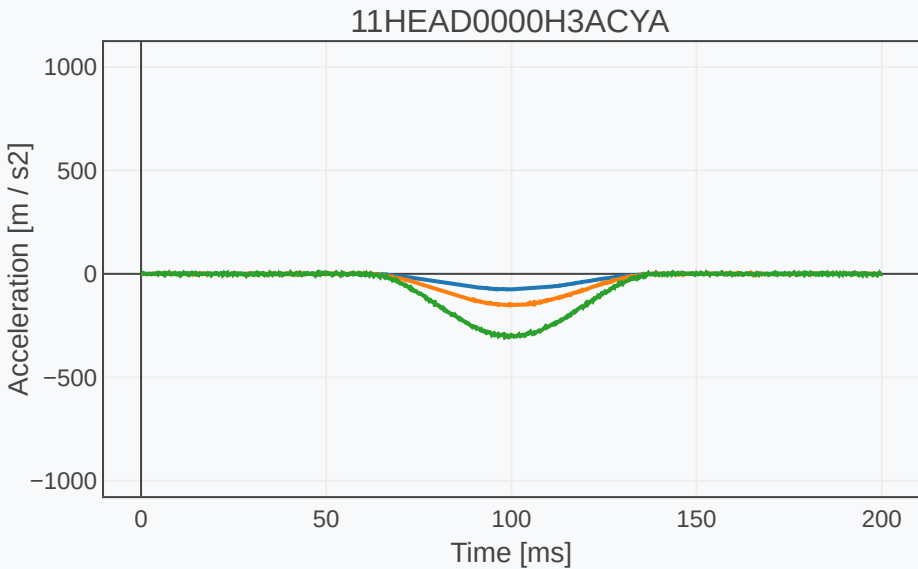
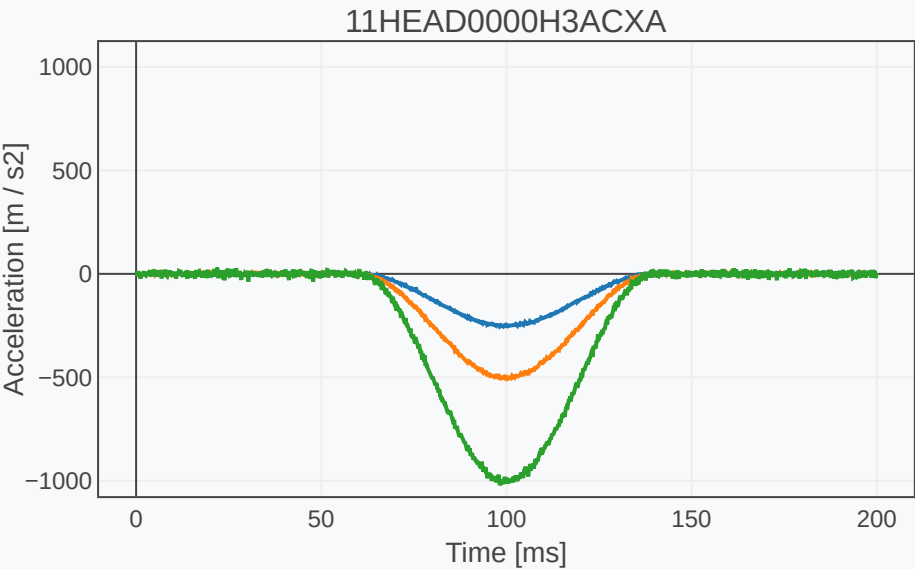
Driver Result



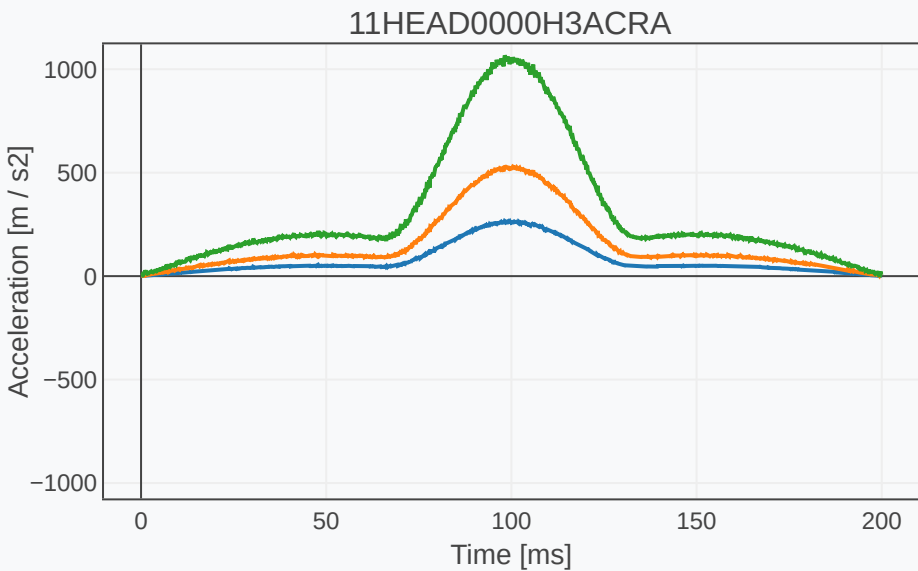
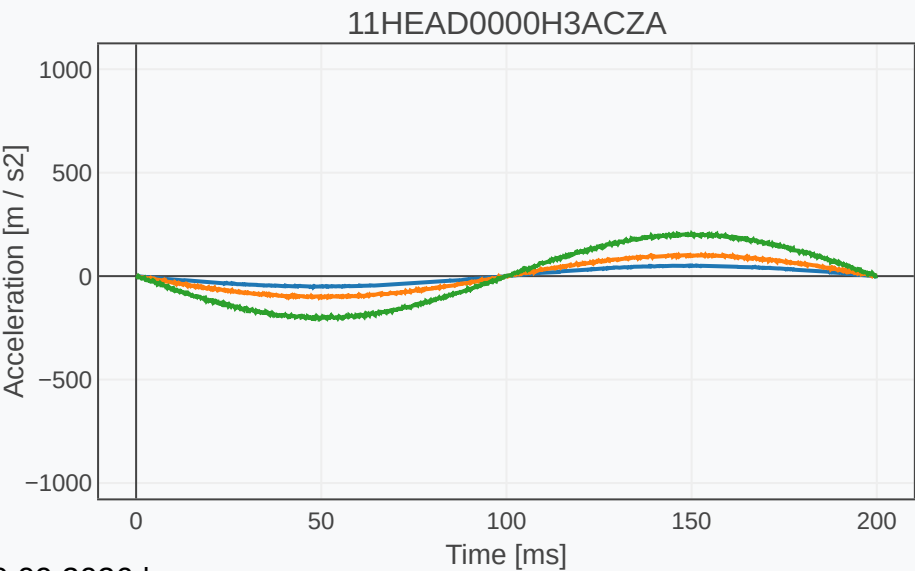
Driver Values

	v1	v2	v3
HIC 15 []	51.02	288.6	1633
Nij []	0.25	0.5	1
Neck axial tension [kN]	0.5	1	2
Neck compression [kN]	-0.5	-1	-2
Neck tension duration corridor [kN]	0.5	1	2
Neck compression duration corridor [kN]	-0.5	-1	-2
Neck shear duration corridor [kN]	0.5	1	2
Thoracic spine acceleration (3 ms) [g0]	2.549	5.099	10.2
Sternum deflection [mm]	-15	-30	-60
Sternum deflection rate [m / s]	-0.25	-0.5	-1
Viscous criterion [m / s]	0.25	0.5	1
Left knee-thigh-hip injury risk [kN]	1	2	4
Right knee-thigh-hip injury risk [kN]	1	2	4
Tibia-femur displacement [mm]	5	10	20
Tibia index []	0.25	0.5	1
Tibia axial force [kN]	1	2	4
Foot acceleration [g0]	5.099	10.2	20.39

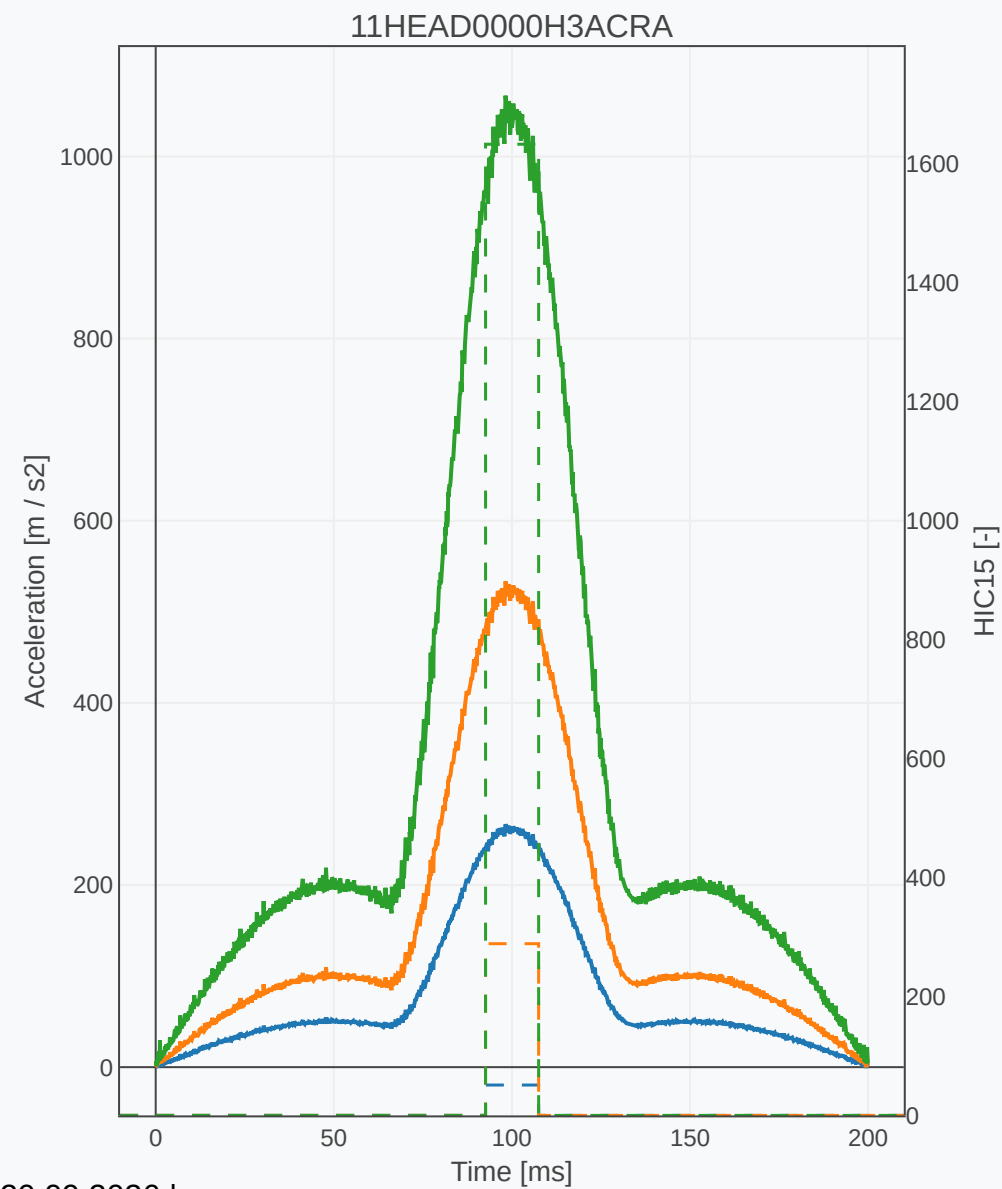
Driver Head Acceleration



v1
v2
v3



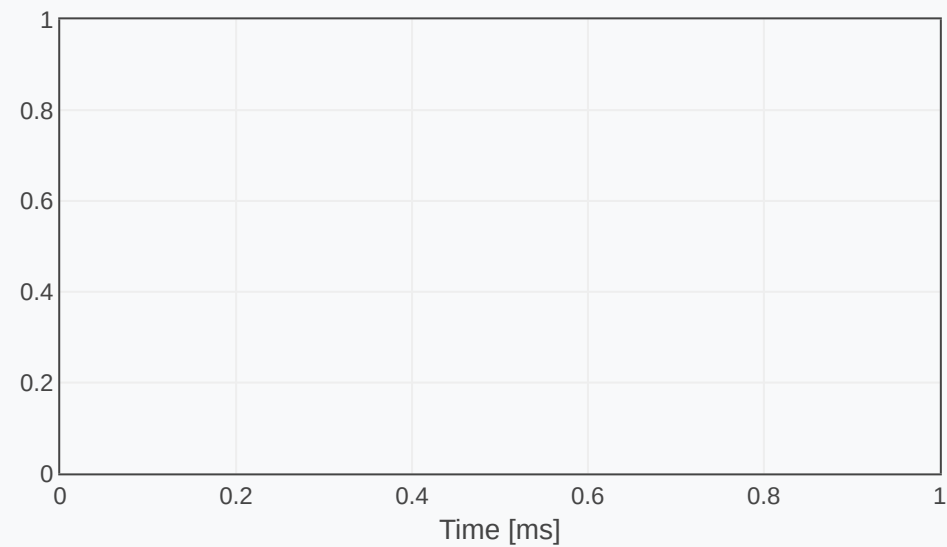
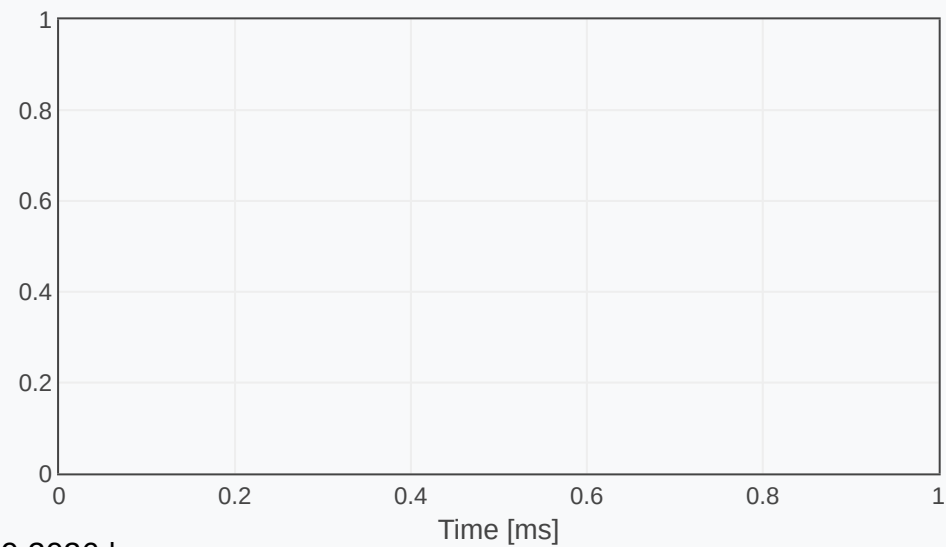
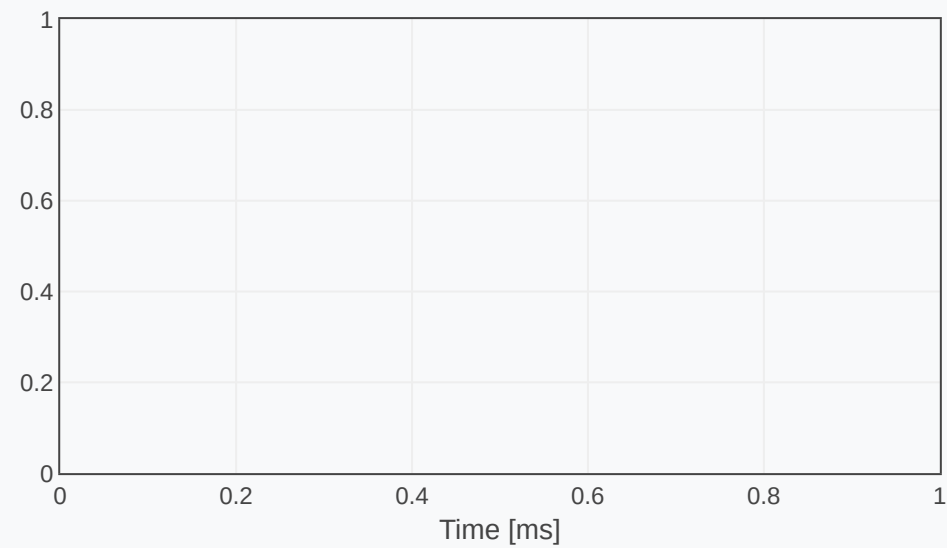
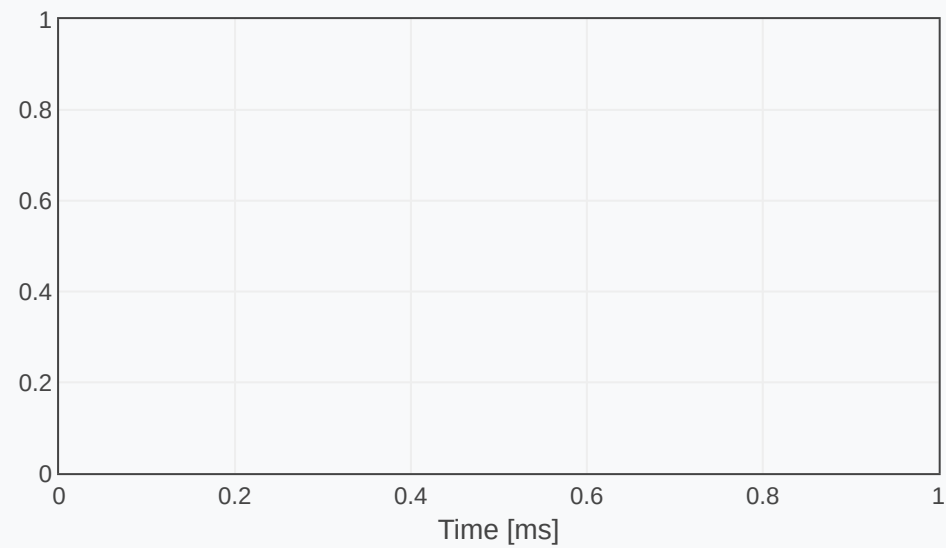
Driver HIC15



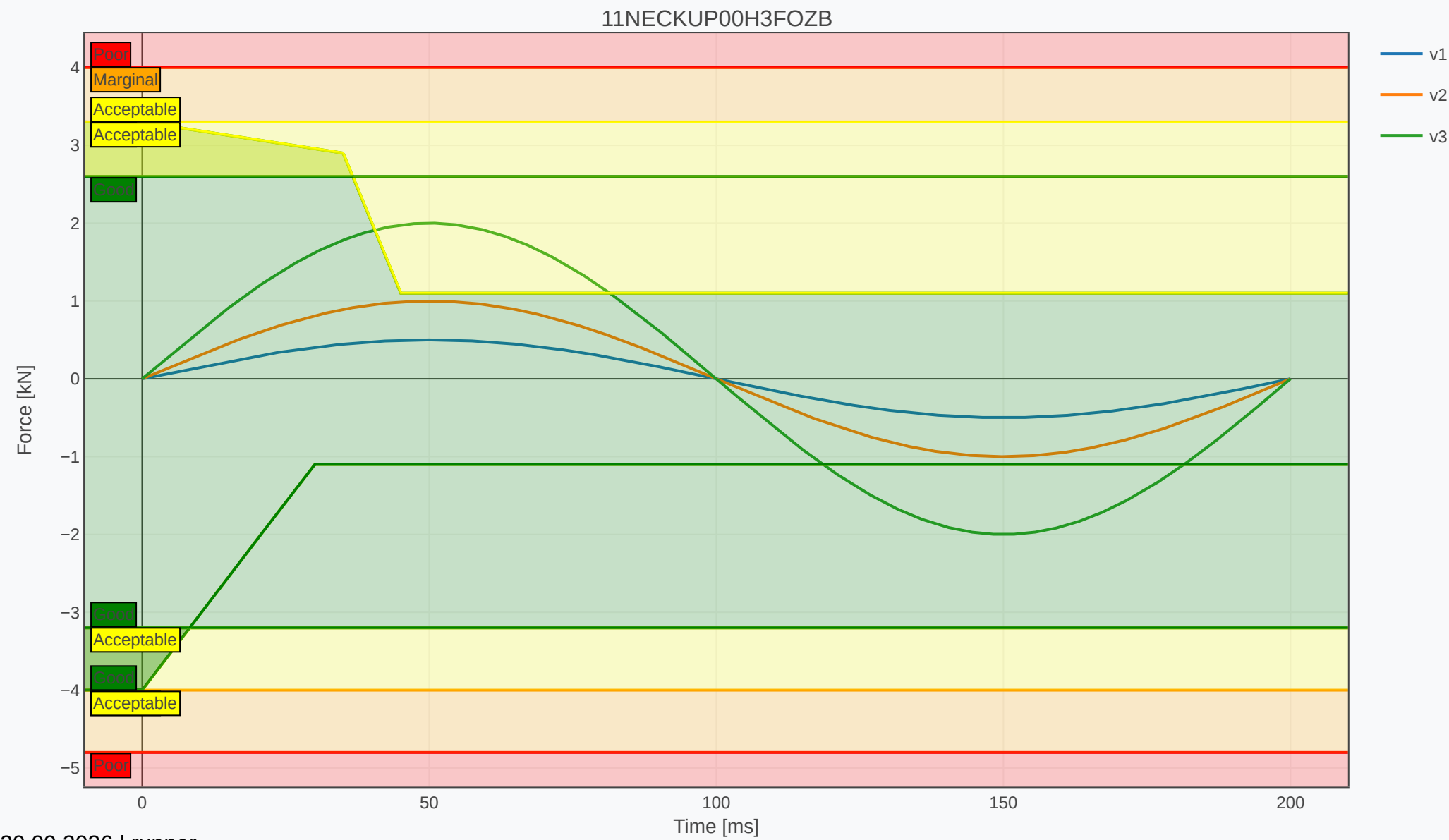
	HIC15	Start [ms]	End [ms]
v1	51.0	92.60	107.50
v2	288.6	92.60	107.50
v3	1632.6	92.60	107.50

- v1
- v2
- v3
- v1 HIC15
- v2 HIC15
- v3 HIC15

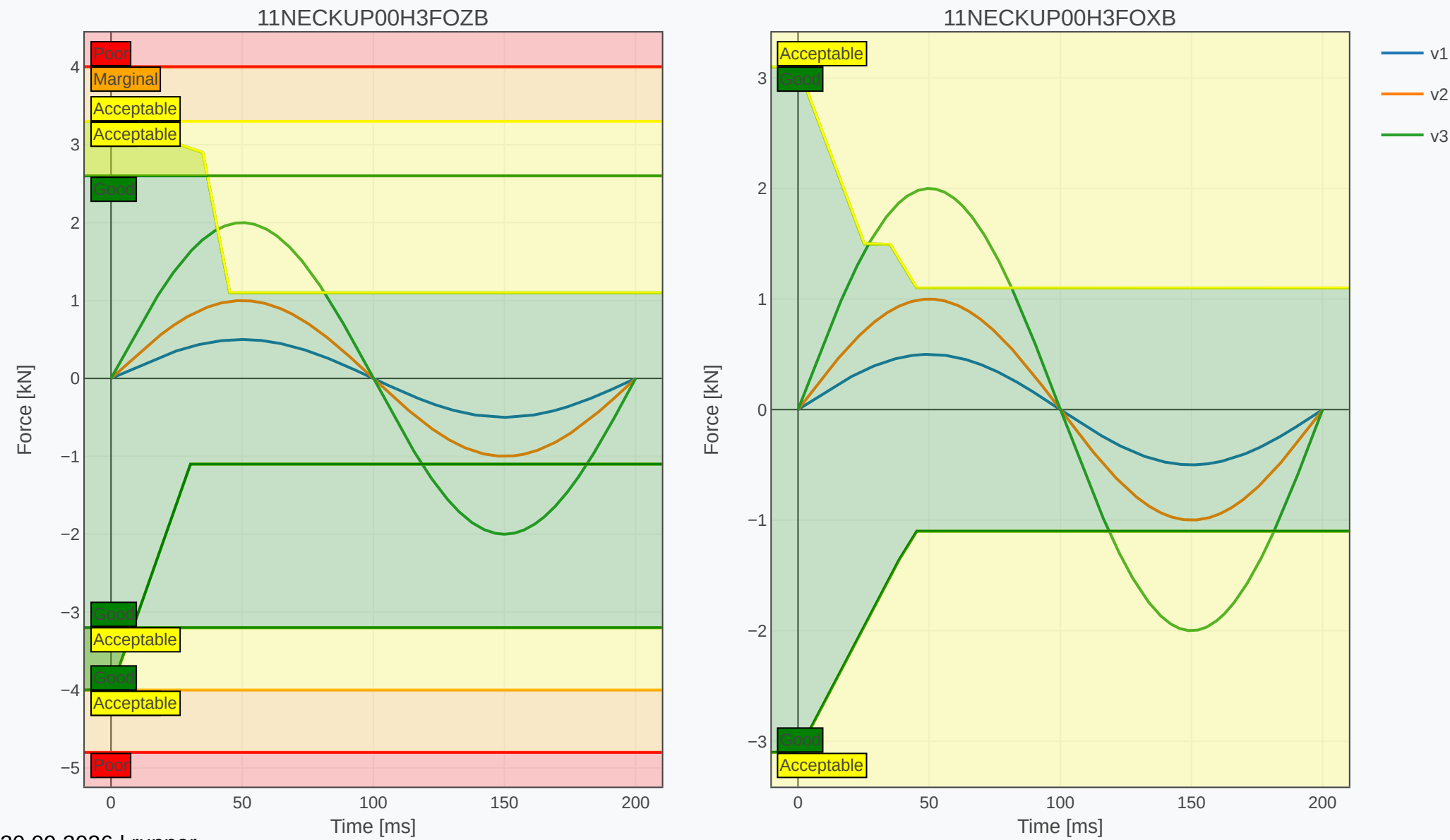
Driver Neck NIJ



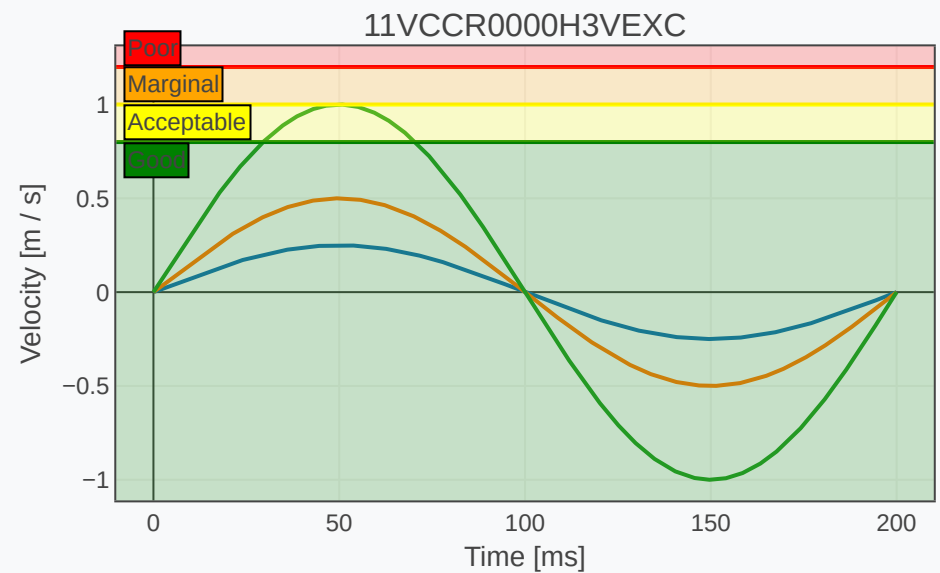
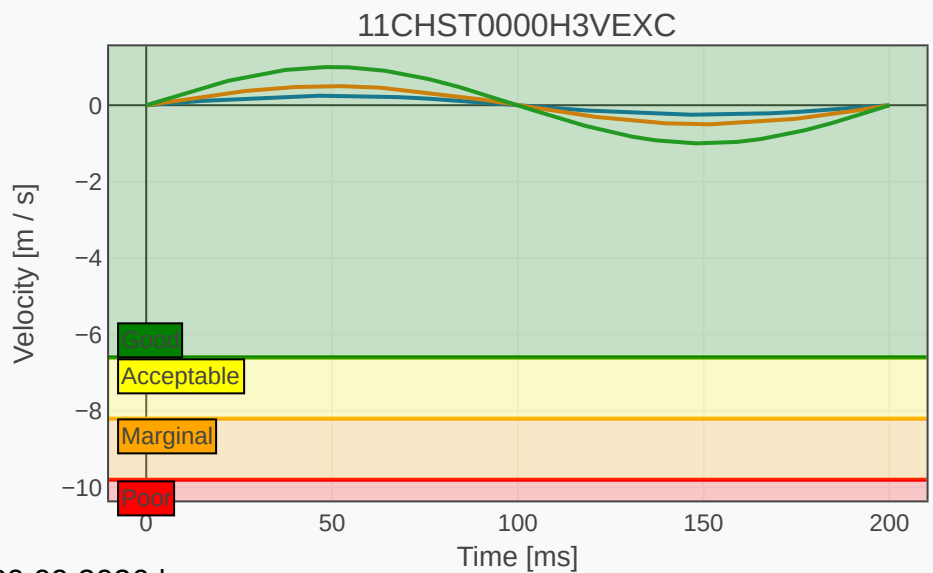
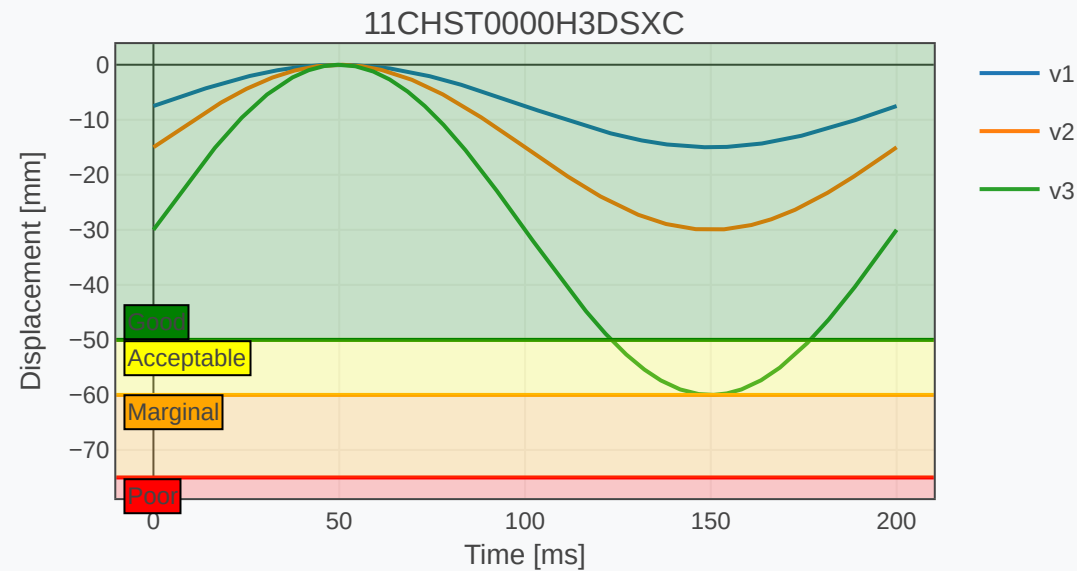
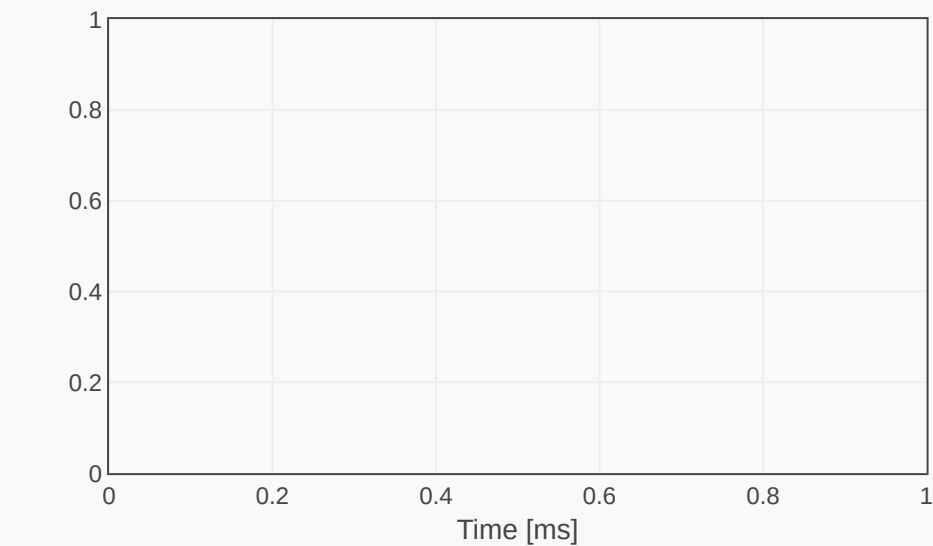
Driver Neck Axial Load



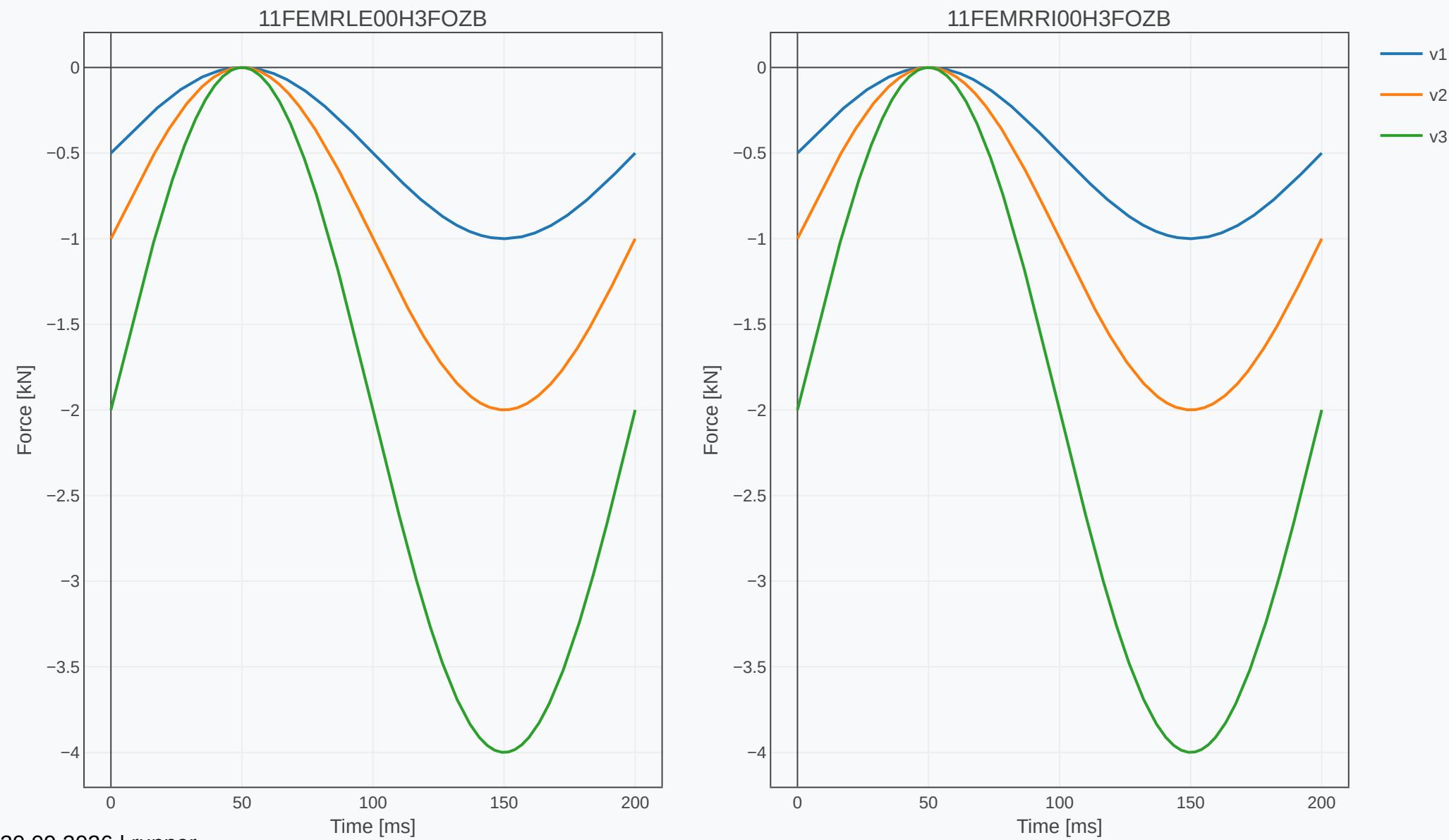
Driver Neck Load Corridors



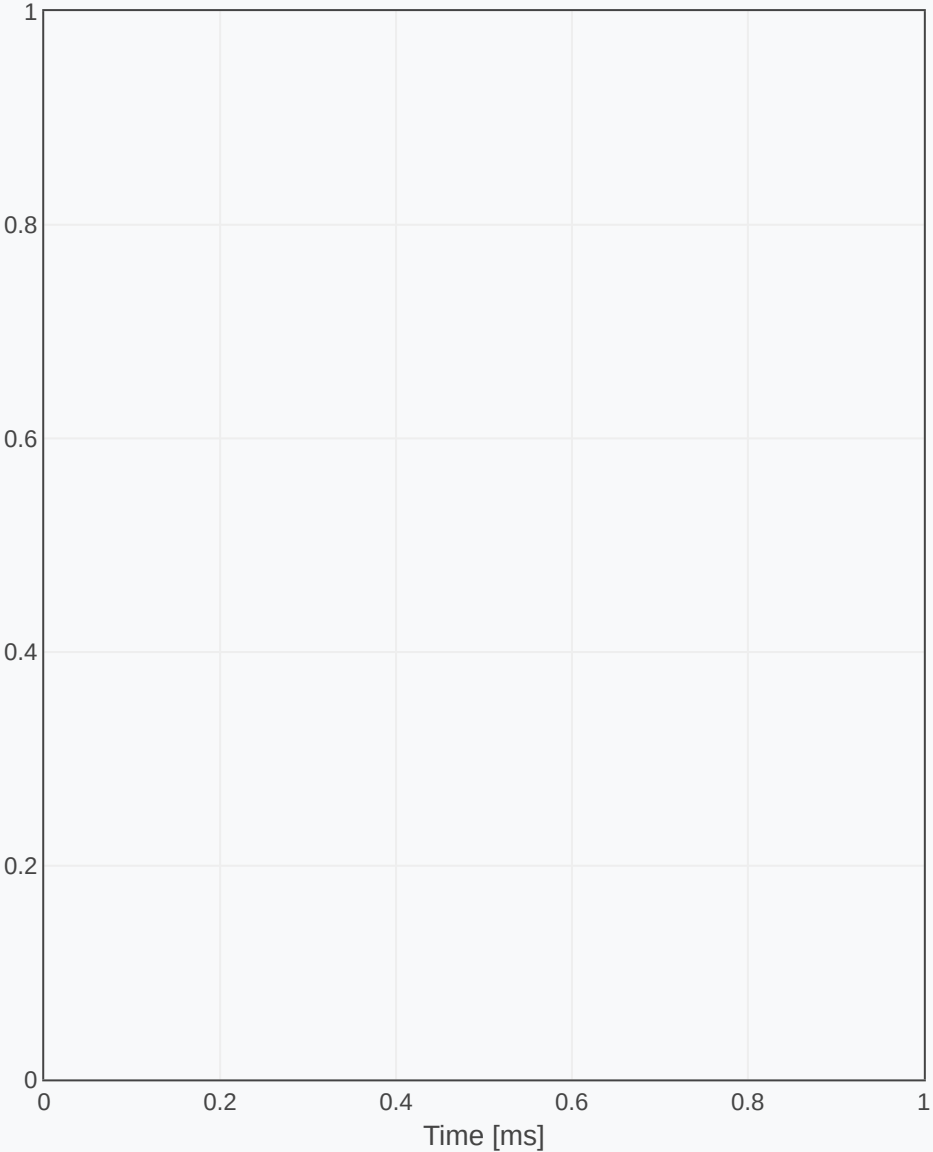
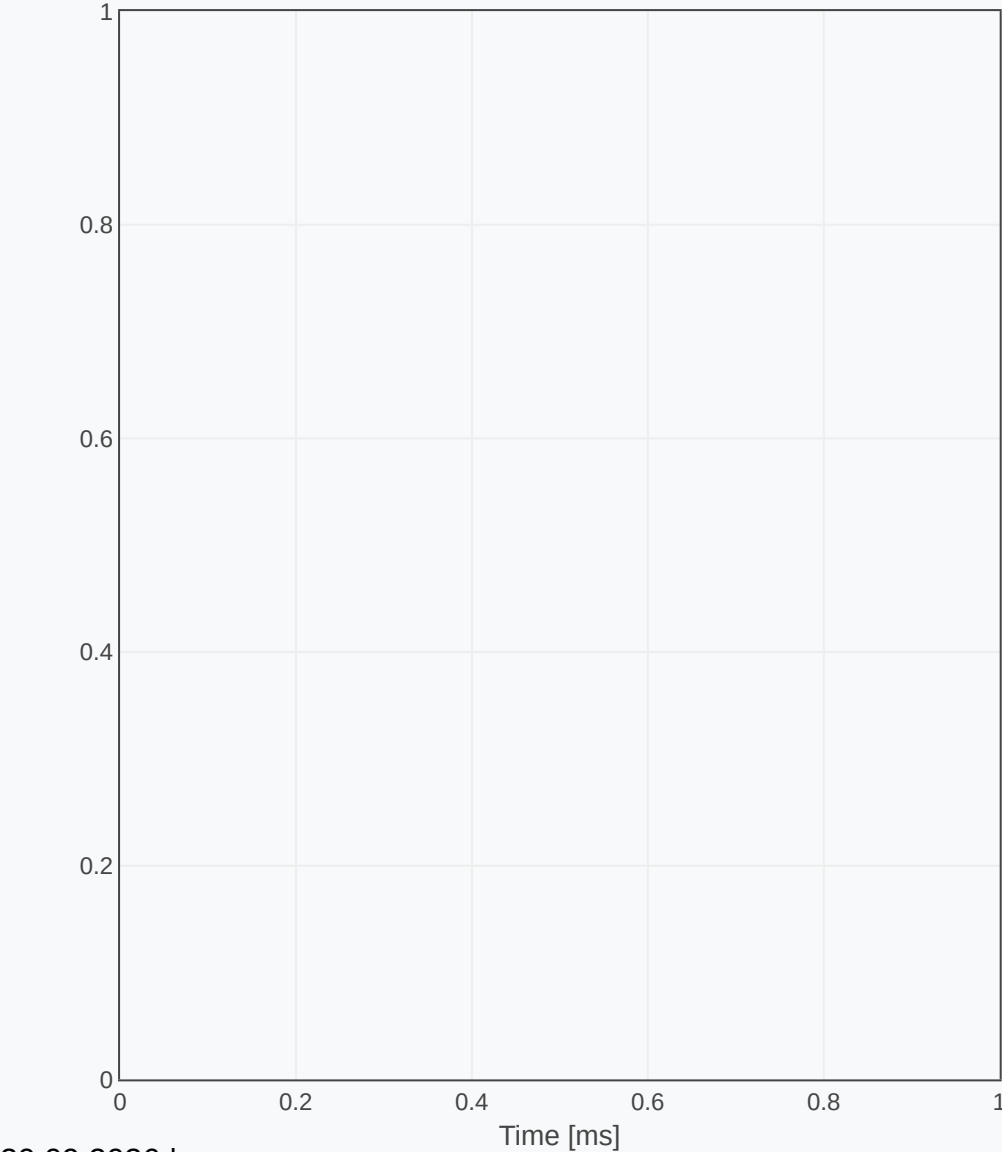
Driver Chest Injury Measures



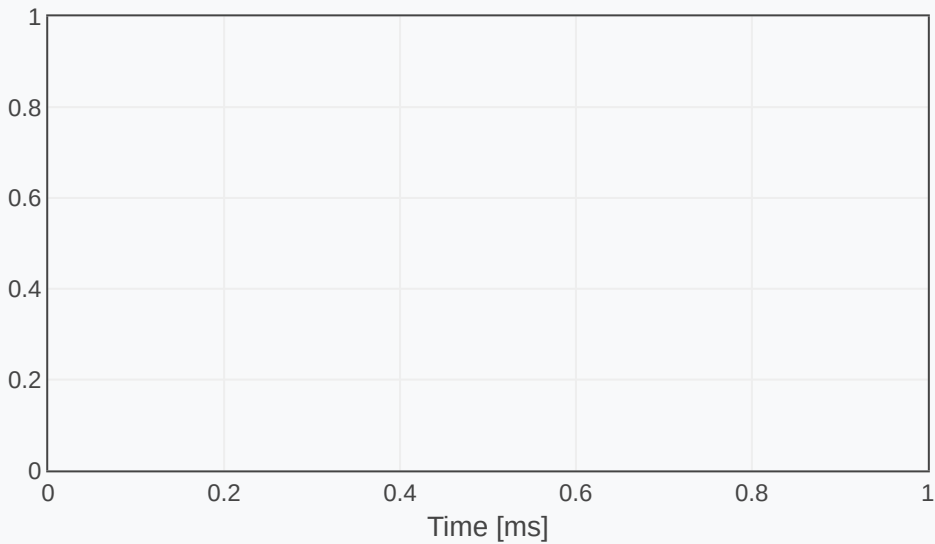
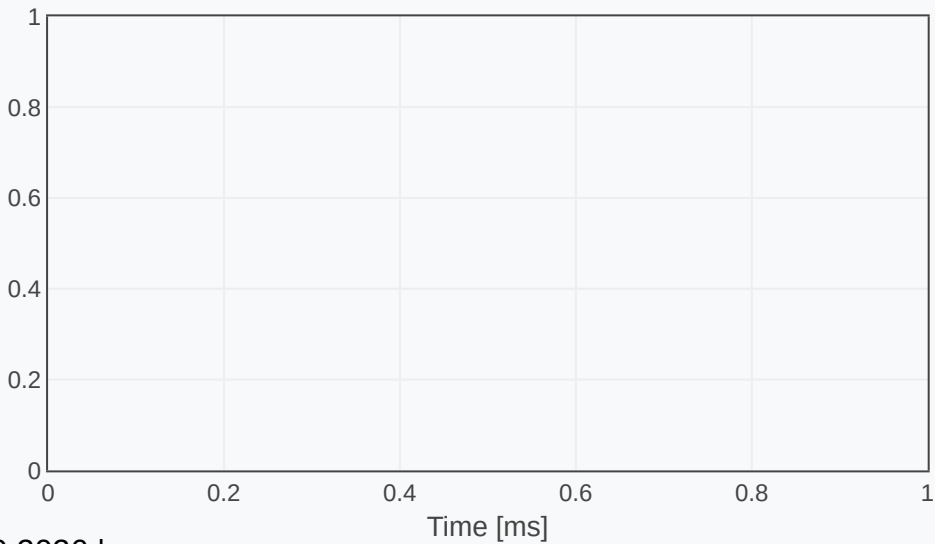
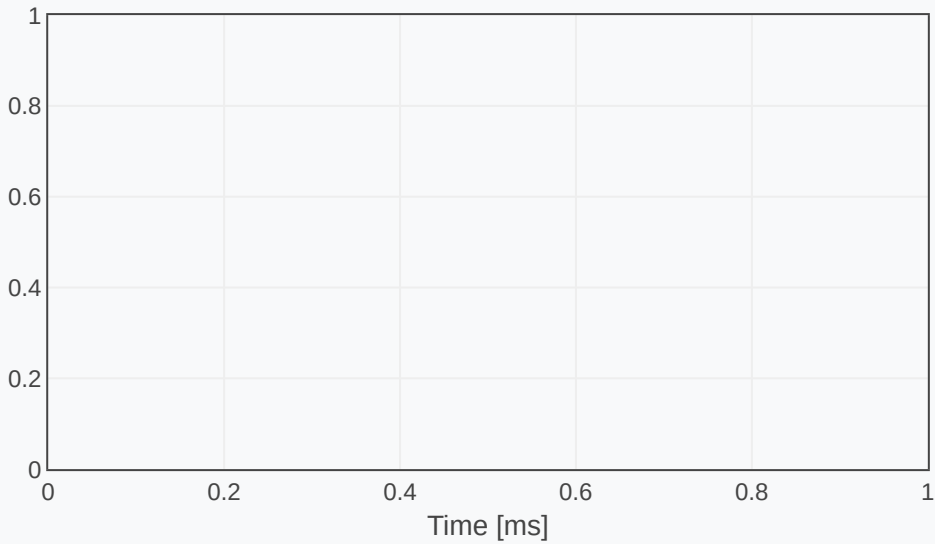
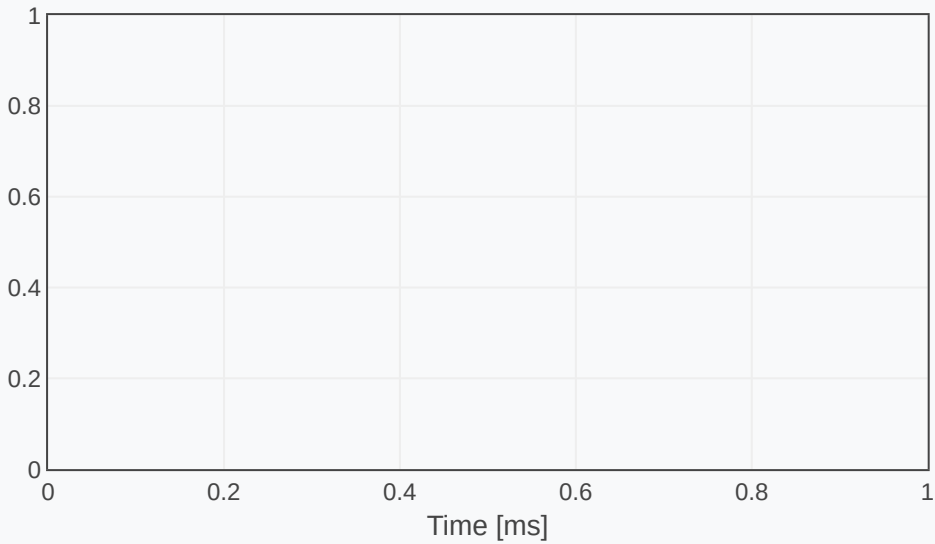
Driver Femur Axial Force



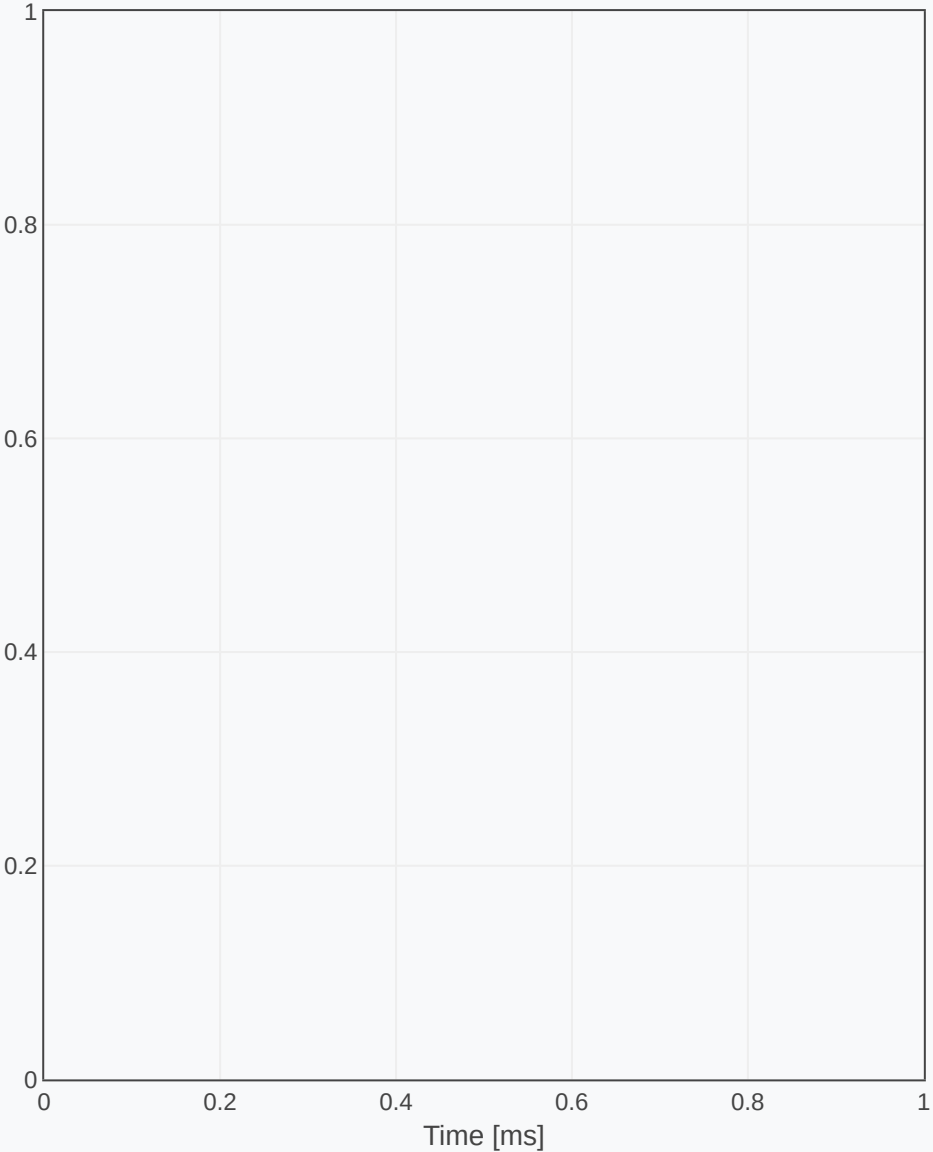
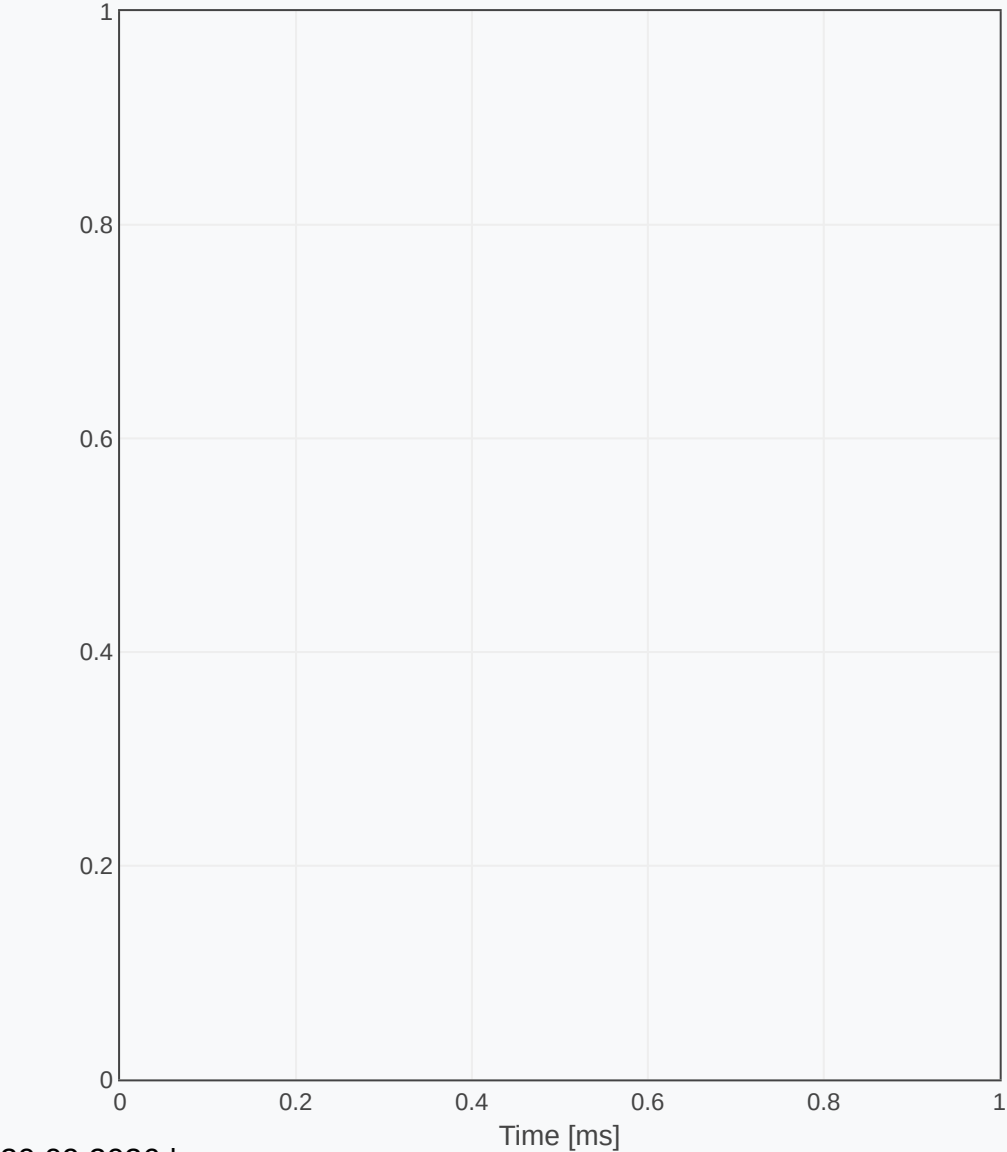
Driver Tibia-Femur Displacement



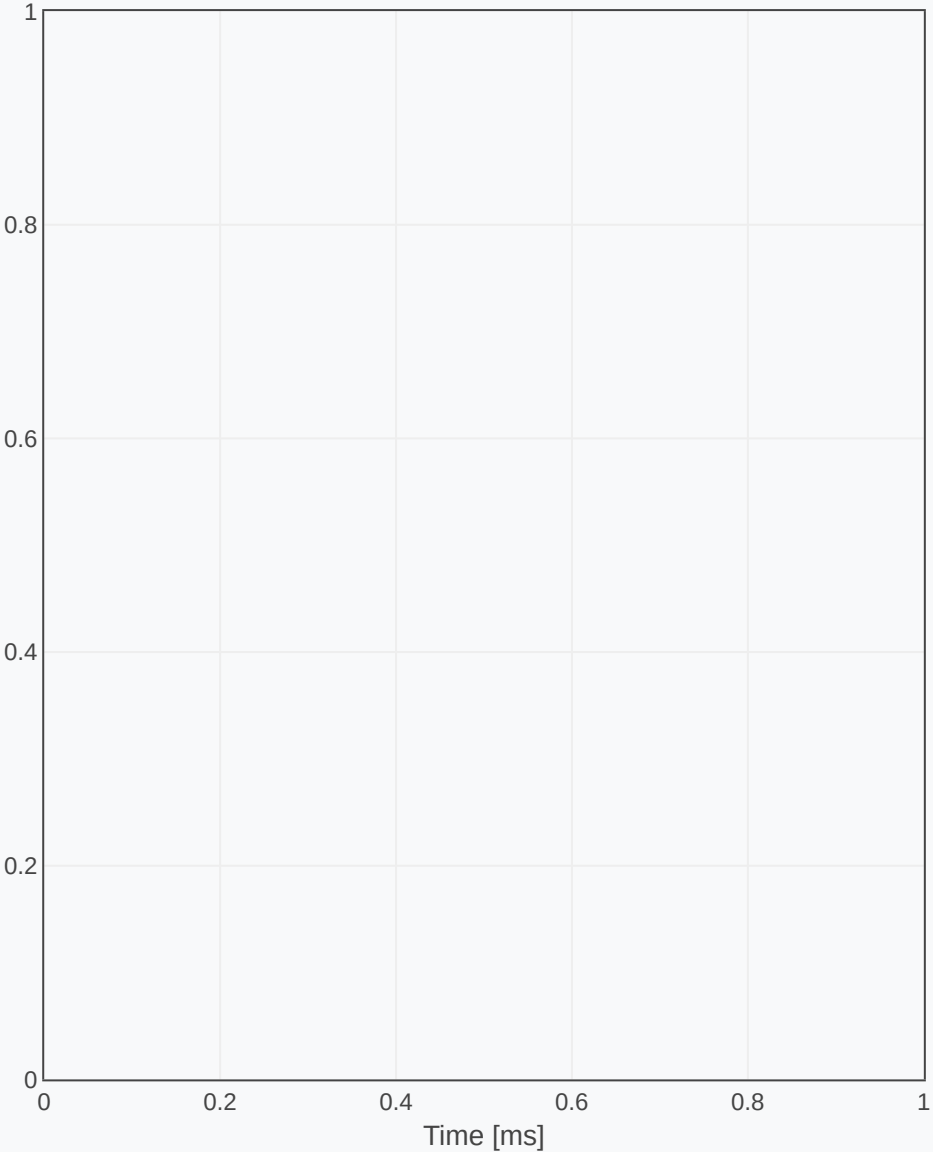
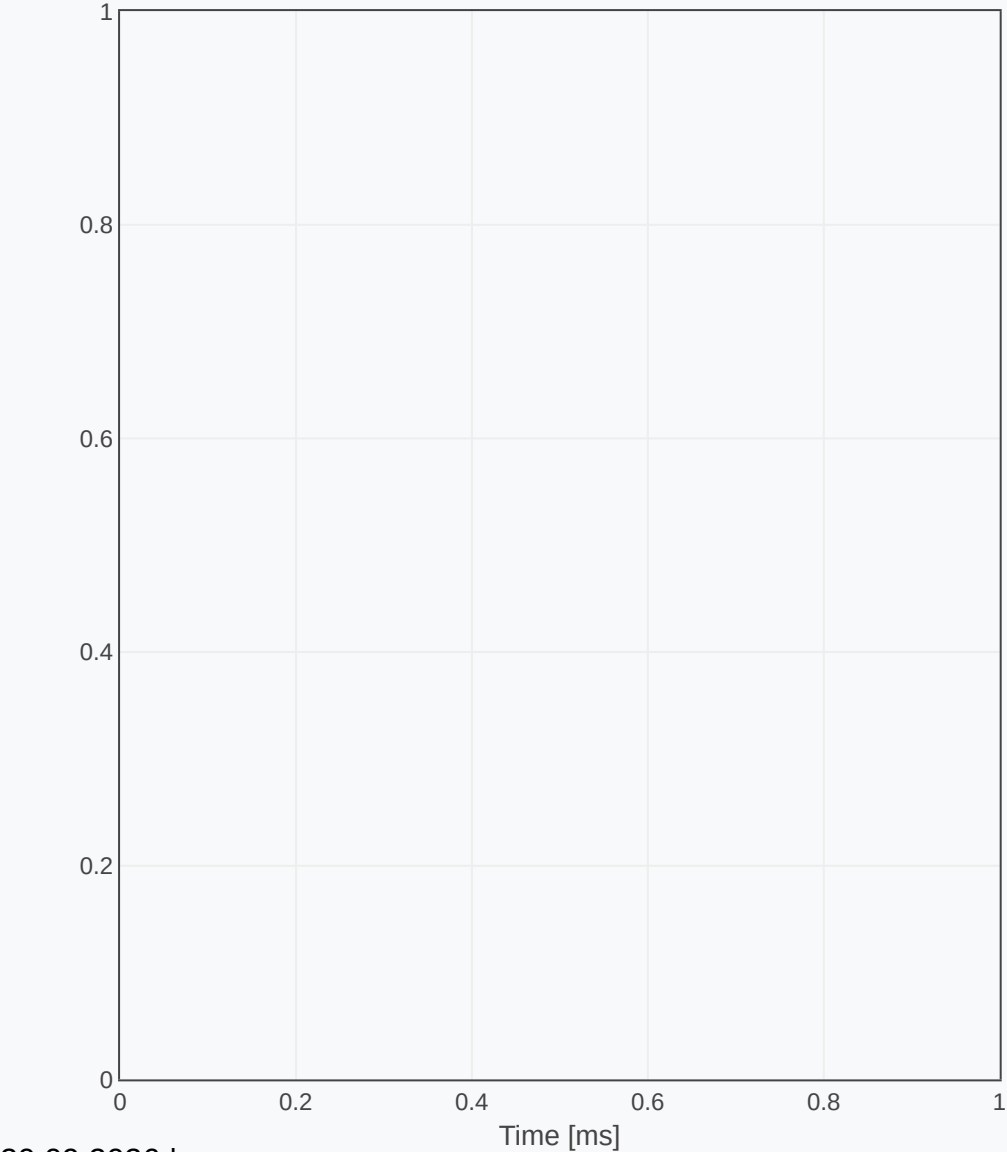
Driver Tibia Index



Driver Tibia Axial Force



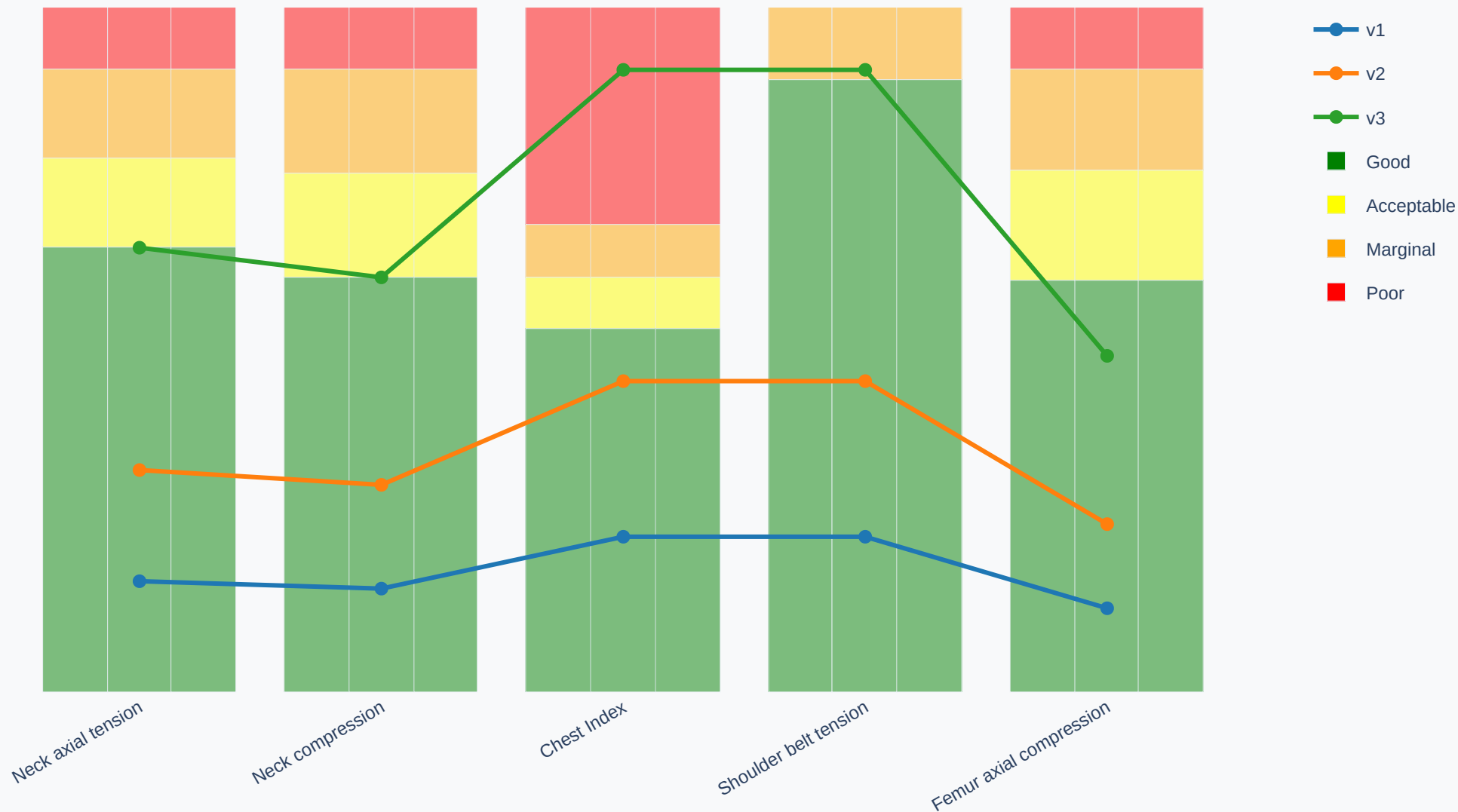
Driver Foot Acceleration



Rear Passenger Rating

	v1	v2	v3
Head and neck	0.0	0.0	-2.0
Chest	0.0	0.0	-20.0
Thigh	0.0	0.0	0.0
Restraints and kinematics	0.0	0.0	0.0
Rear passenger	0.0	0.0	-22.0

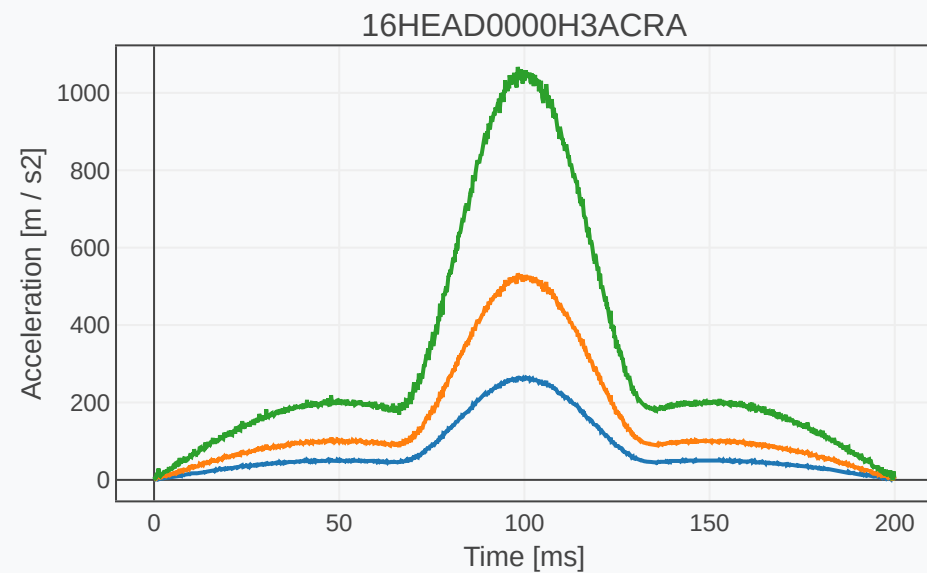
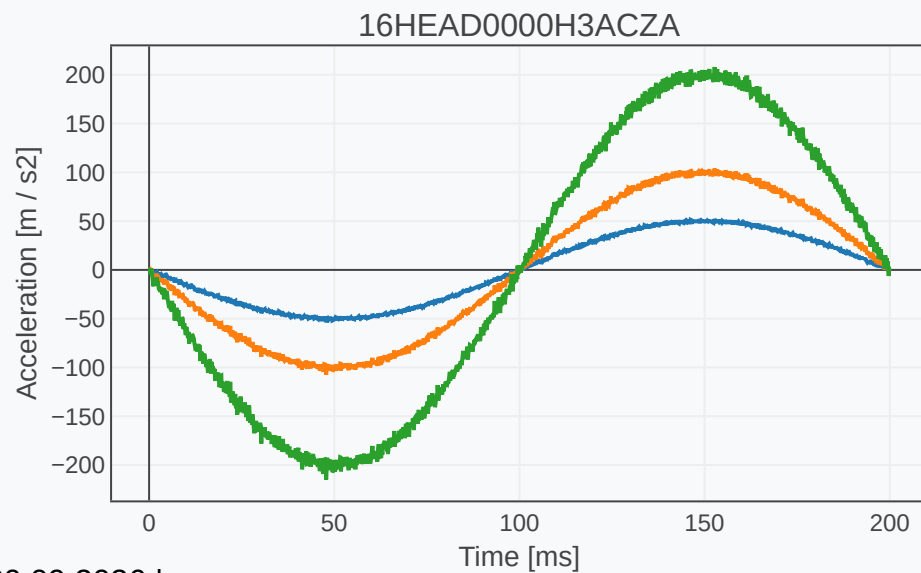
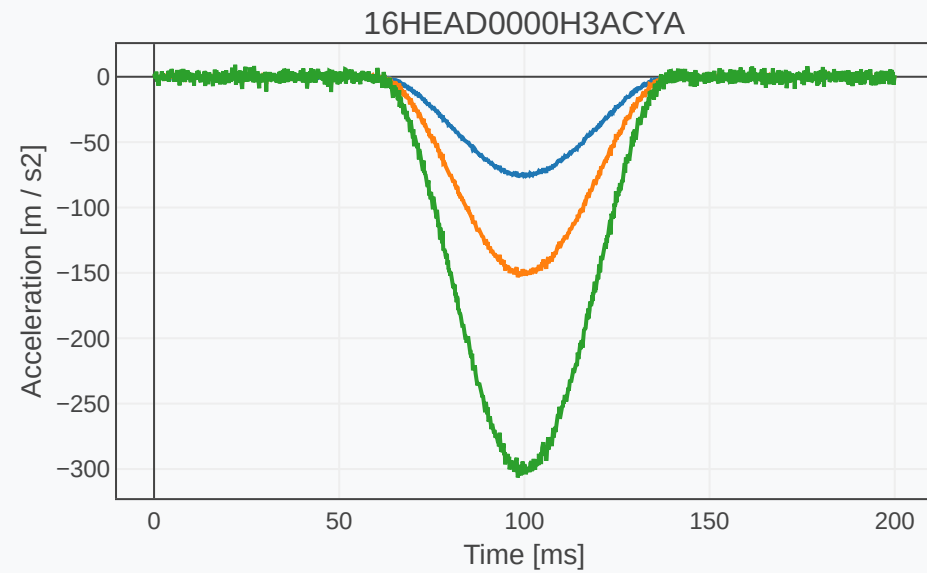
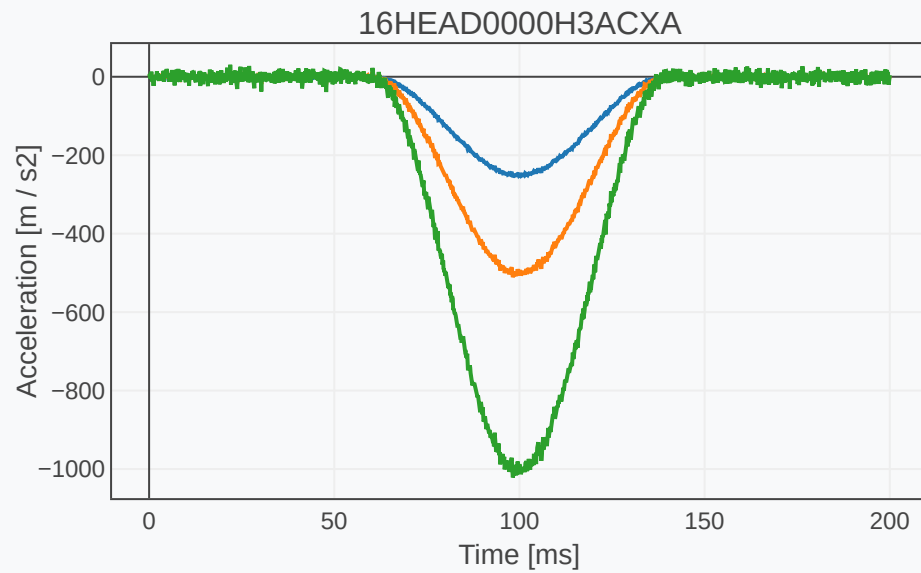
Rear Passenger Result



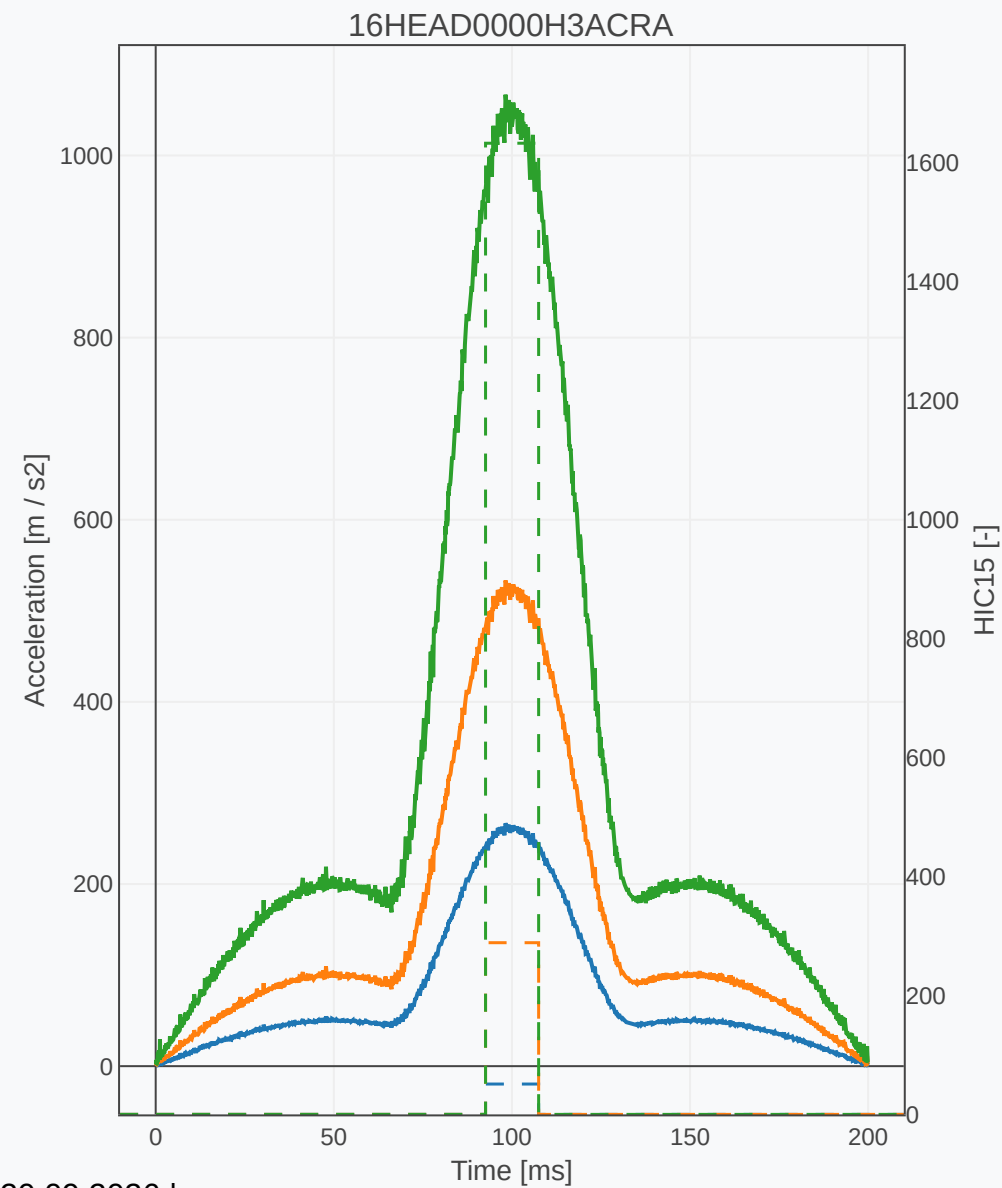
Rear Passenger Values

	v1	v2	v3
HIC 15 (contacts only) [nan]	nan	nan	nan
Nij (contacts only) [nan]	nan	nan	nan
Neck axial tension [kN]	0.5	1	2
Neck compression [kN]	-0.5	-1	-2
Chest Index [mm]	15	30	60
Shoulder belt tension [kN]	1.5	3	6
Femur axial compression [kN]	1	2	4

Rear Passenger Head Acceleration



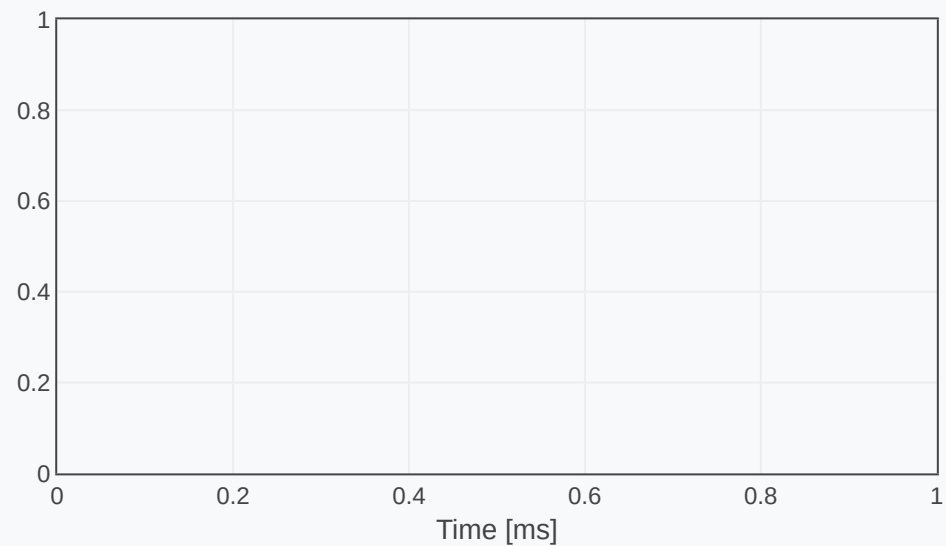
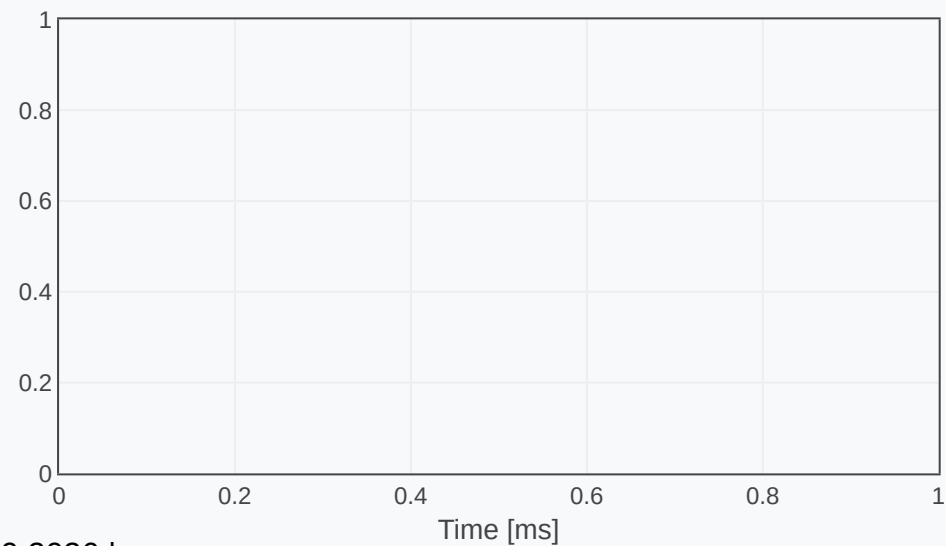
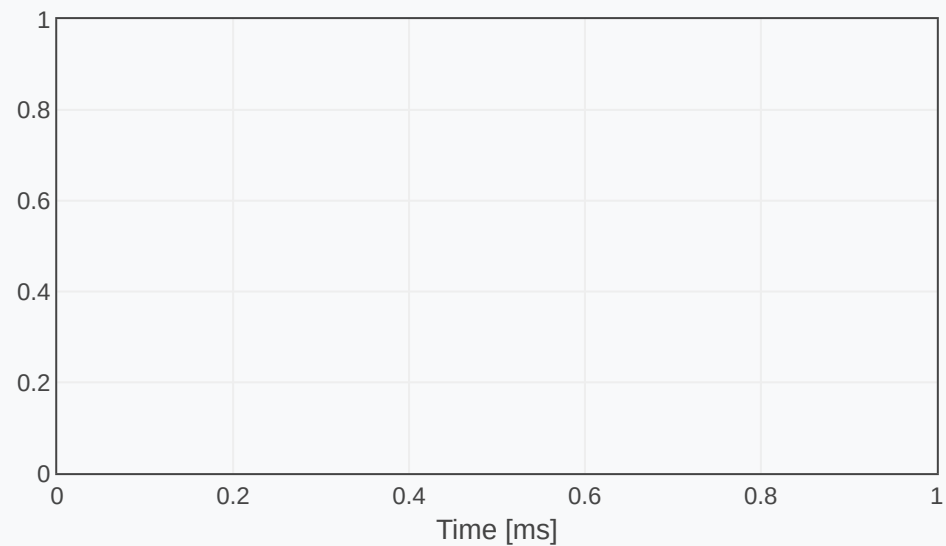
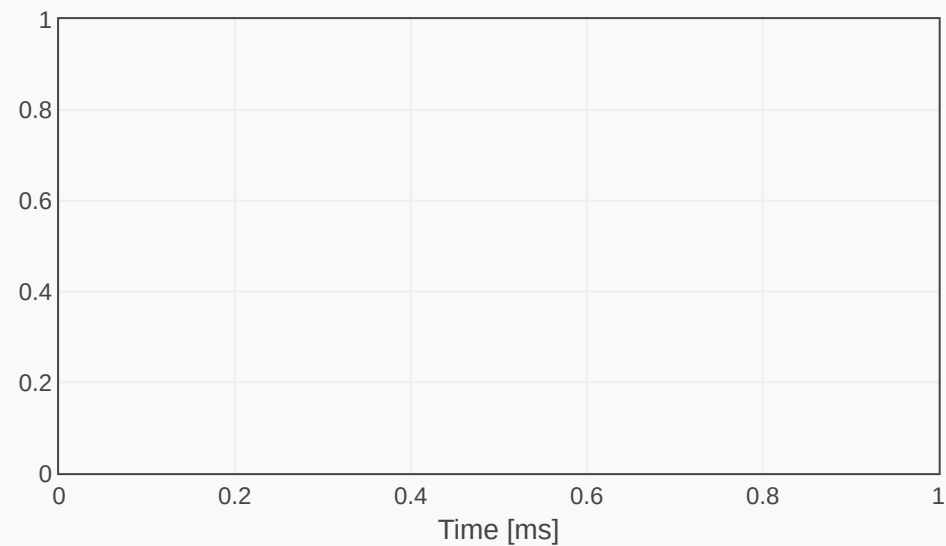
Rear Passenger HIC15



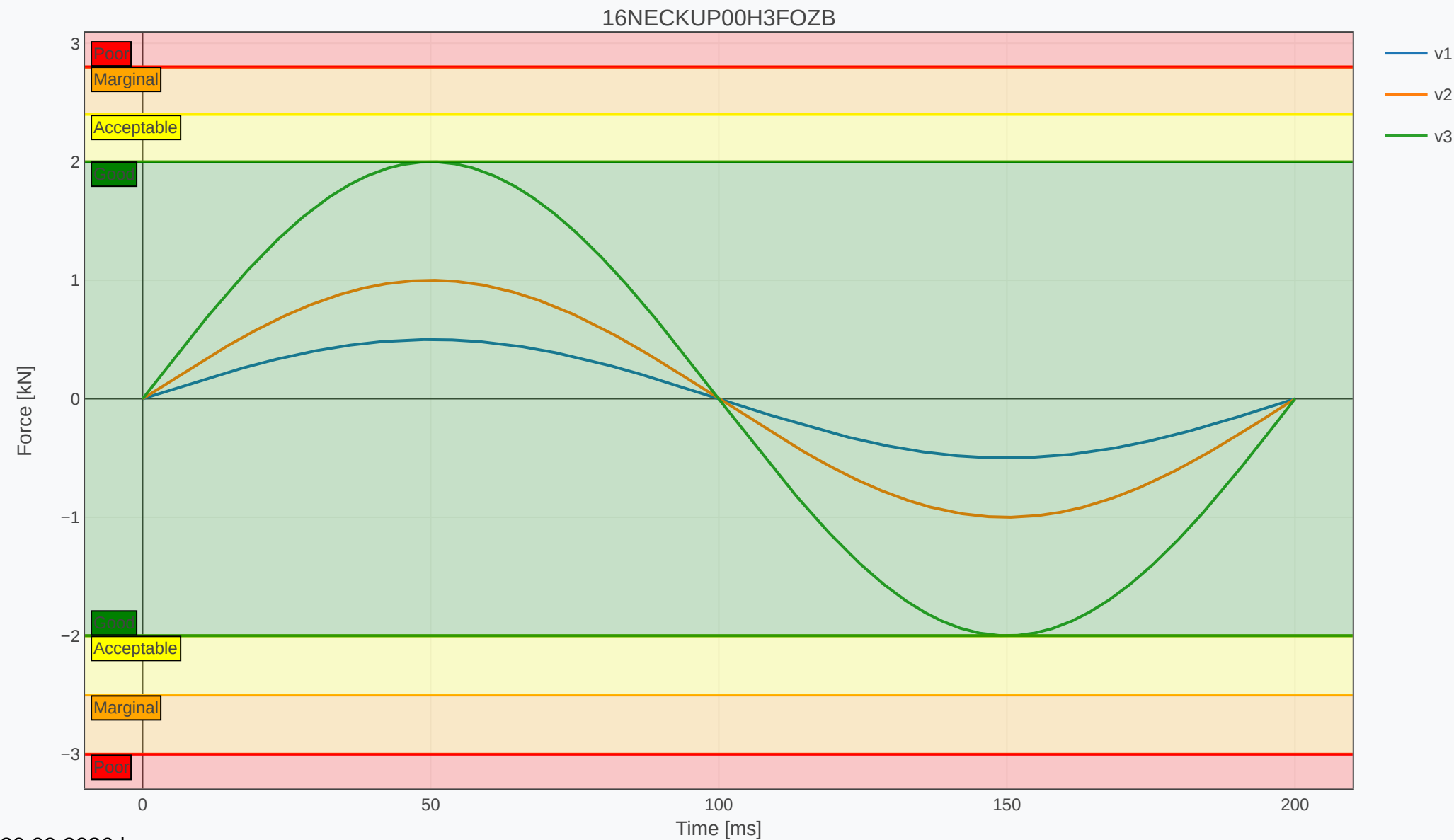
	HIC15	Start [ms]	End [ms]
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v2	288.6	92.60	107.50
v3	1632.6	92.60	107.50

- v1
- v2
- v3
- v1 HIC15
- v2 HIC15
- v3 HIC15

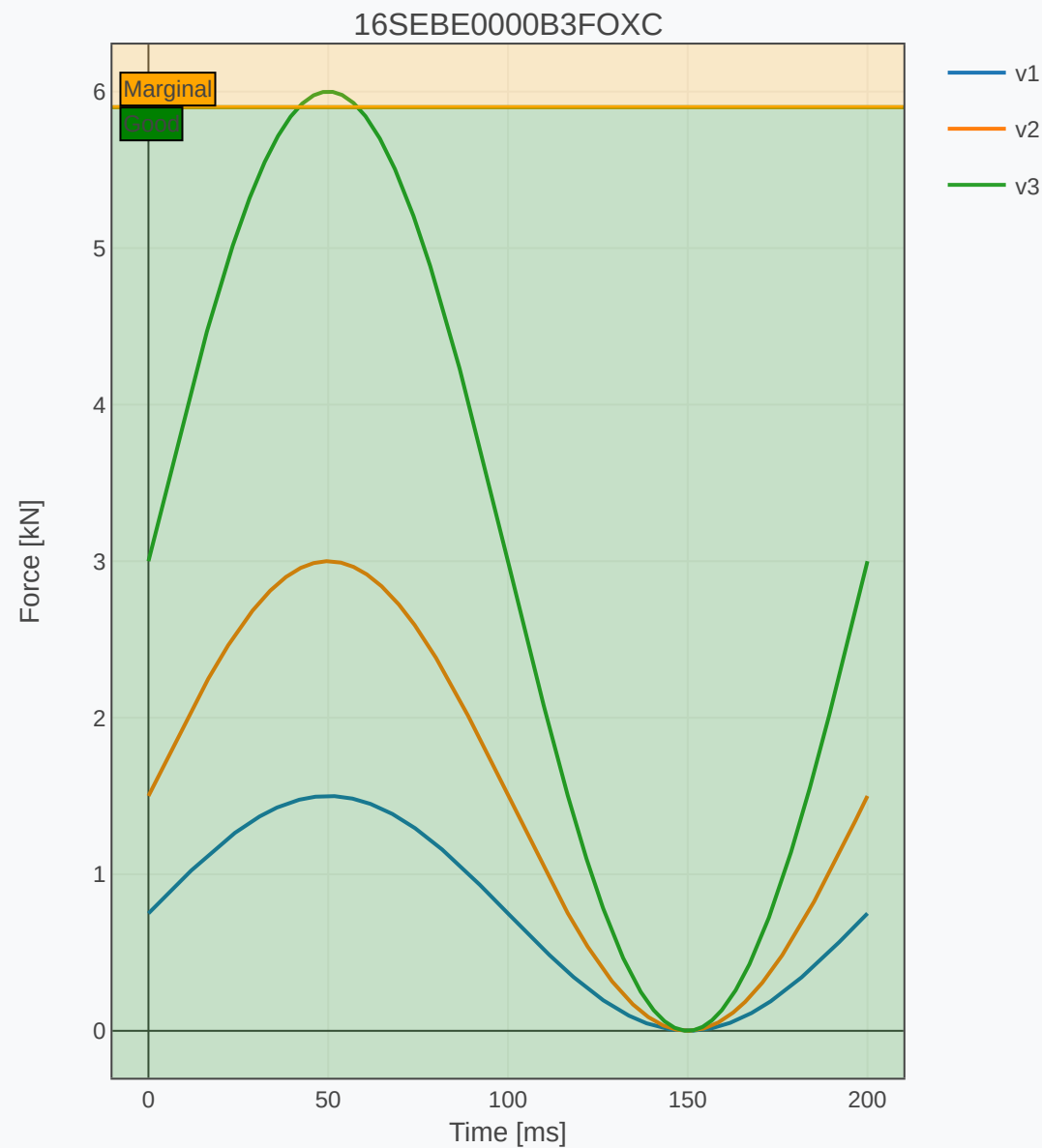
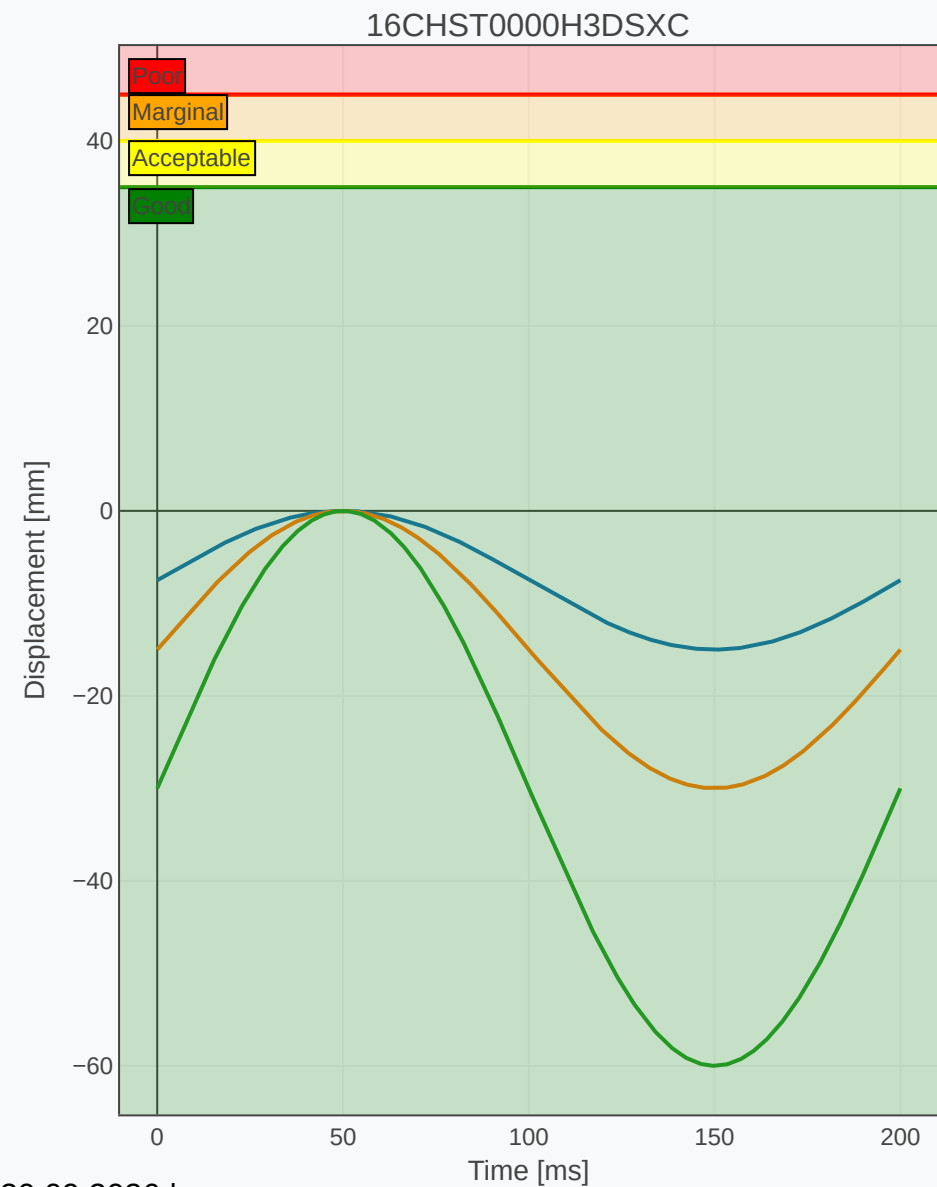
Rear Passenger Neck NIJ



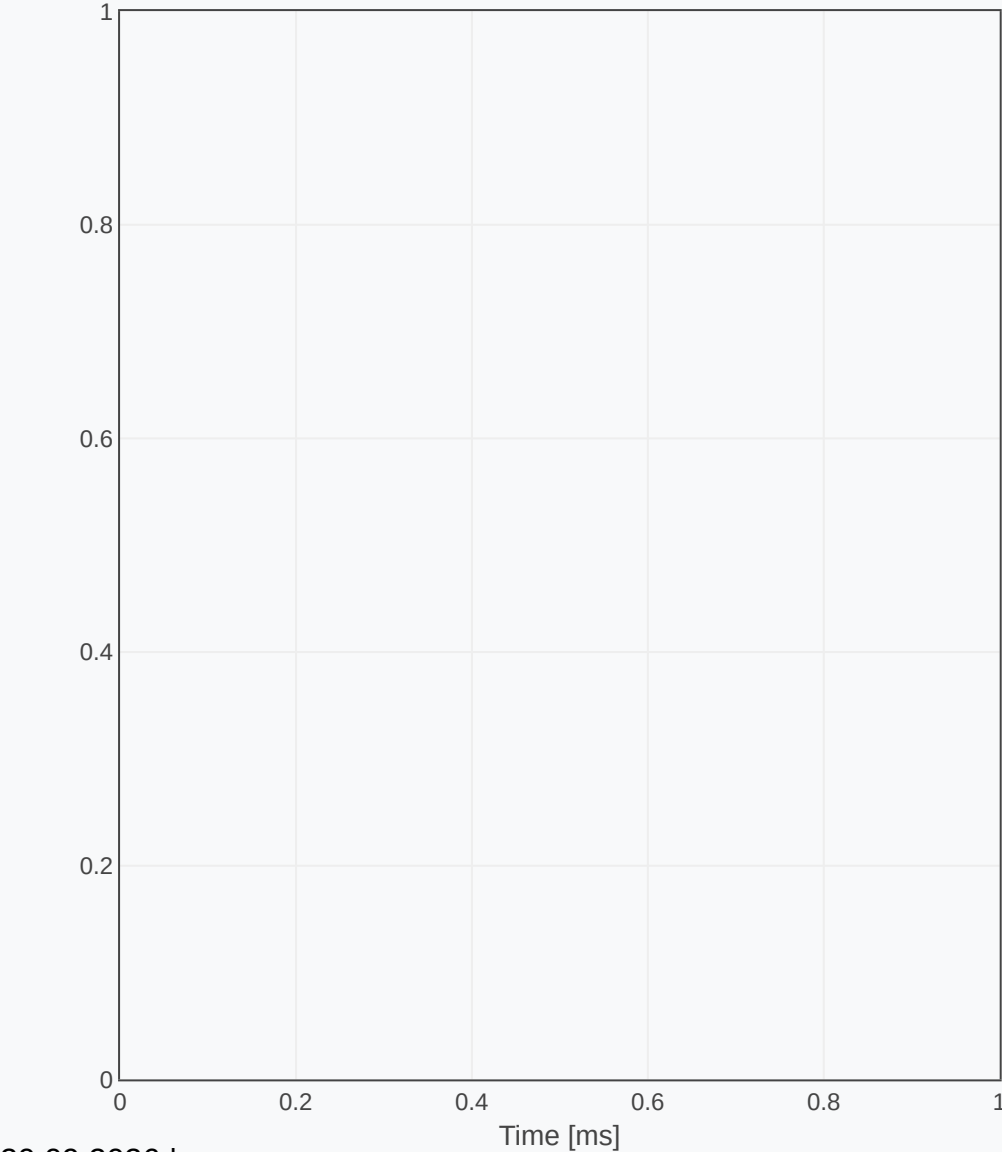
Rear Passenger Neck Axial Load



Rear Passenger Chest Measures



Rear Passenger Femur Axial Force



20.09.2026 | runner

