

Unnamed Report

IIHS | Side Impact Crashworthiness
v1 | v2 | v3

Report Status

	v1	v2	v3
Overall	OK	OK	OK
Driver	OK	OK	OK
Head and neck	OK	OK	OK
HIC15	OK	OK	OK
Neck axial tension	OK	OK	OK
Neck axial compression	OK	OK	OK
Torso	OK	OK	OK
Average peak rib deflection	OK	OK	OK
Rib deflection rate	OK	OK	OK
Viscous criterion	OK	OK	OK
Pelvis	OK	OK	OK
Head protection	OK	OK	OK
Rear passenger	OK	OK	OK
Head and neck	OK	OK	OK
HIC15	OK	OK	OK
Neck axial tension	OK	OK	OK
Neck axial compression	OK	OK	OK
Torso	OK	OK	OK
Average peak rib deflection	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'
shoulder_bottoming	False	high-speed video and postcrash inspection	False	False	False
direct_mdb_contact	False	high-speed video and physical evidence	False	False	False
head_acceleration_over_70g	False	head resultant acceleration	False	False	False
head_contained	True	high-speed video	True	True	True
head_protection_system_equipped	True	high-speed video and postcrash inspection	True	True	True
interior_contact	False	high-speed video and physical evidence	False	False	False
shoulder_bottoming	False	high-speed video and postcrash inspection	False	False	False
direct_mdb_contact	False	high-speed video and physical evidence	False	False	False
head_acceleration_over_70g	False	head resultant acceleration	False	False	False
head contained	True	high-speed video	True	True	True

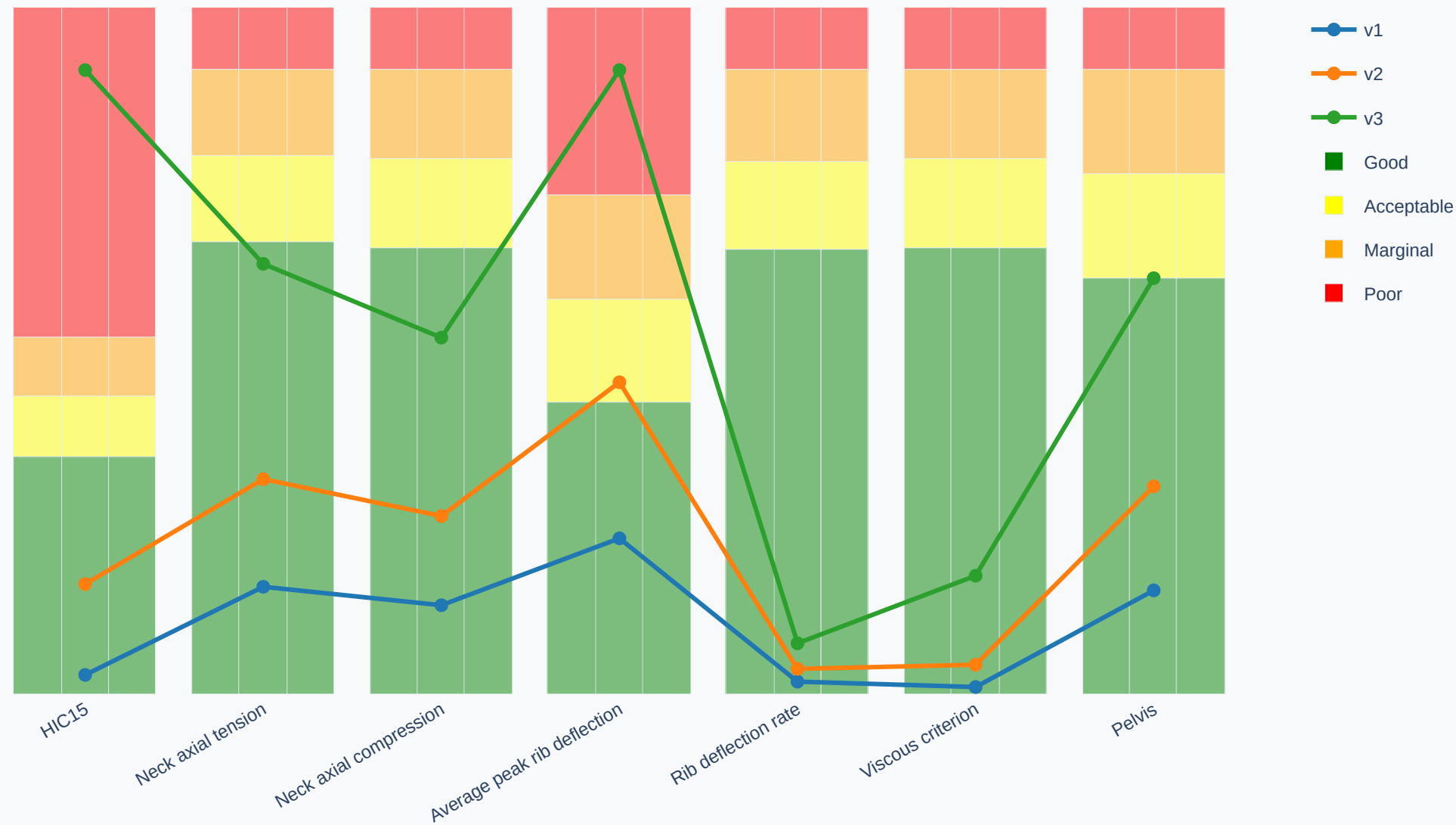
Overall Rating

	v1	v2	v3
Overall	0.0	-4.0	-144.0
Head and neck	0.0	0.0	-35.0
Torso	0.0	-2.0	-35.0
Pelvis	0.0	0.0	-2.0
Head protection	0.0	0.0	0.0
Head and neck	0.0	0.0	-35.0
Torso	0.0	-2.0	-35.0
Pelvis	0.0	0.0	-2.0
Head protection	0.0	0.0	0.0
Vehicle structure	0.0	0.0	0.0

Driver Ratings

	v1	v2	v3
Head and neck	0.0	0.0	-35.0
Torso	0.0	-2.0	-35.0
Pelvis	0.0	0.0	-2.0
Head protection	0.0	0.0	0.0
Driver	0.0	-2.0	-72.0

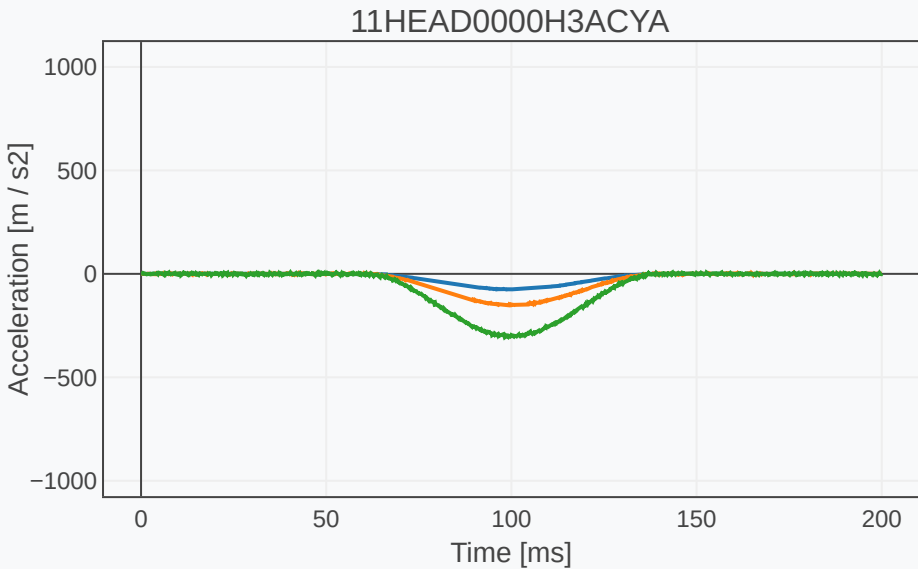
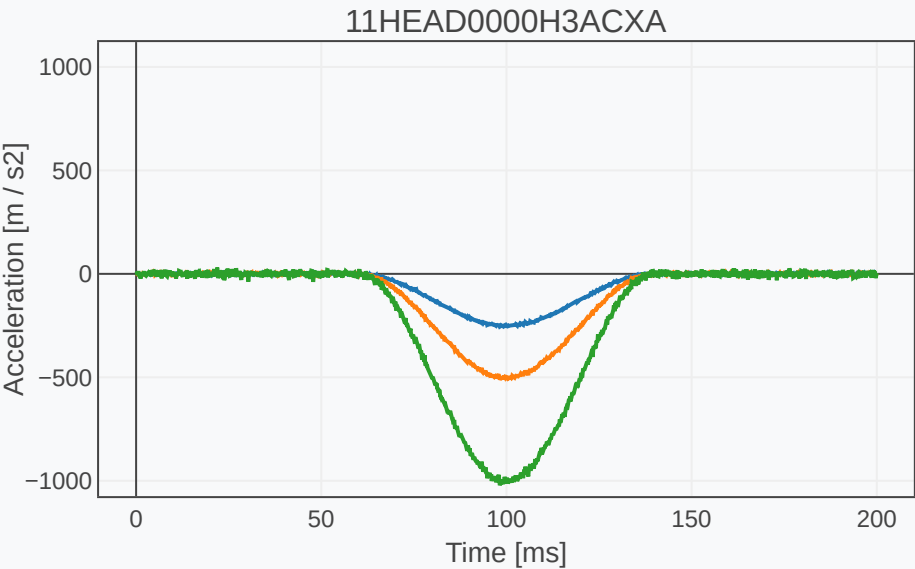
Driver Injury Values



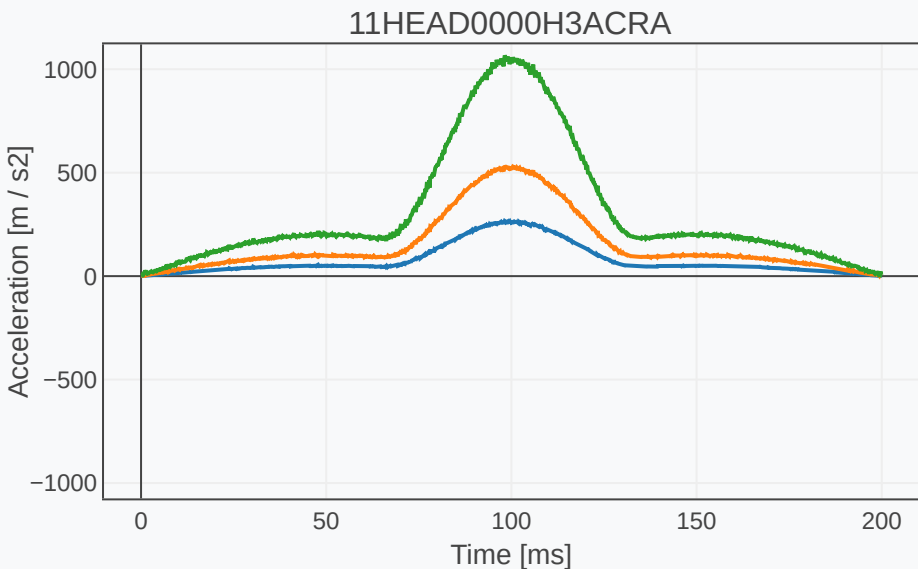
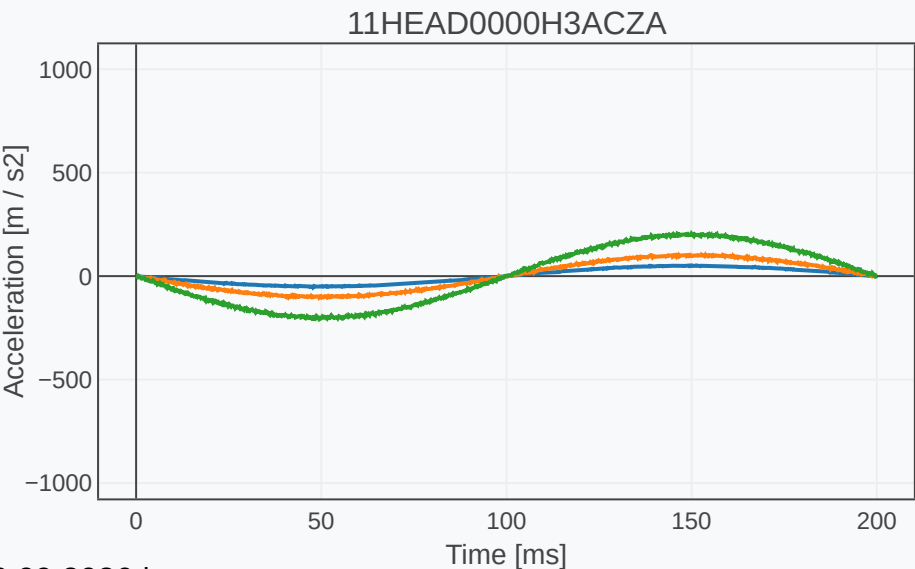
Driver Injury Values

	v1	v2	v3
HIC15 []	51.02	288.6	1633
Neck axial tension [kN]	0.5	1	2
Neck axial compression [kN]	0.5	1	2
Average peak rib deflection [mm]	15	30	60
Rib deflection rate [m / s]	0.2356	0.4712	0.9425
Viscous criterion [m / s]	0.01663	0.06654	0.2662
Pelvis [kN]	1	2	4

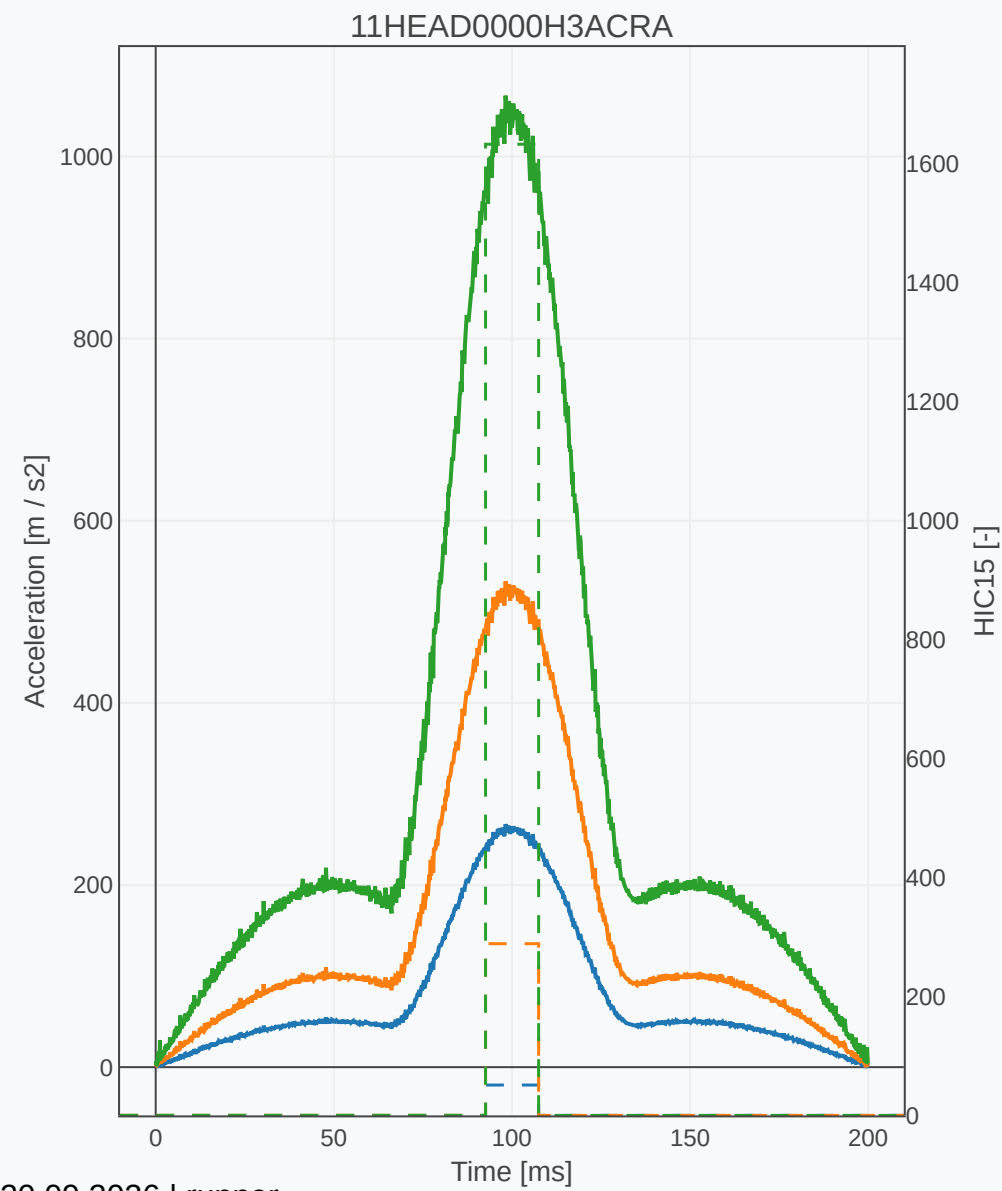
Driver Head Acceleration



- v1
- v2
- v3



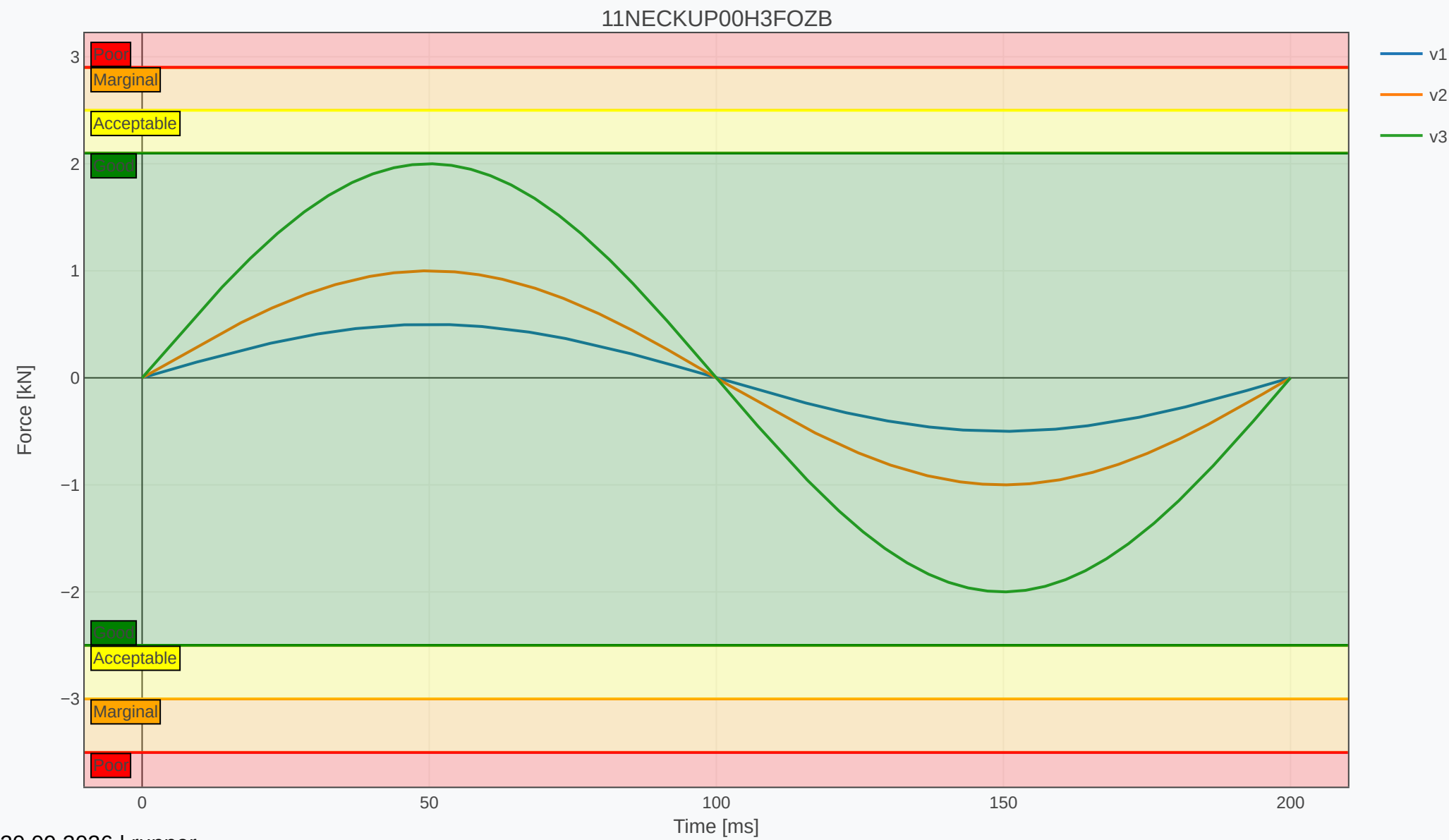
Driver HIC15



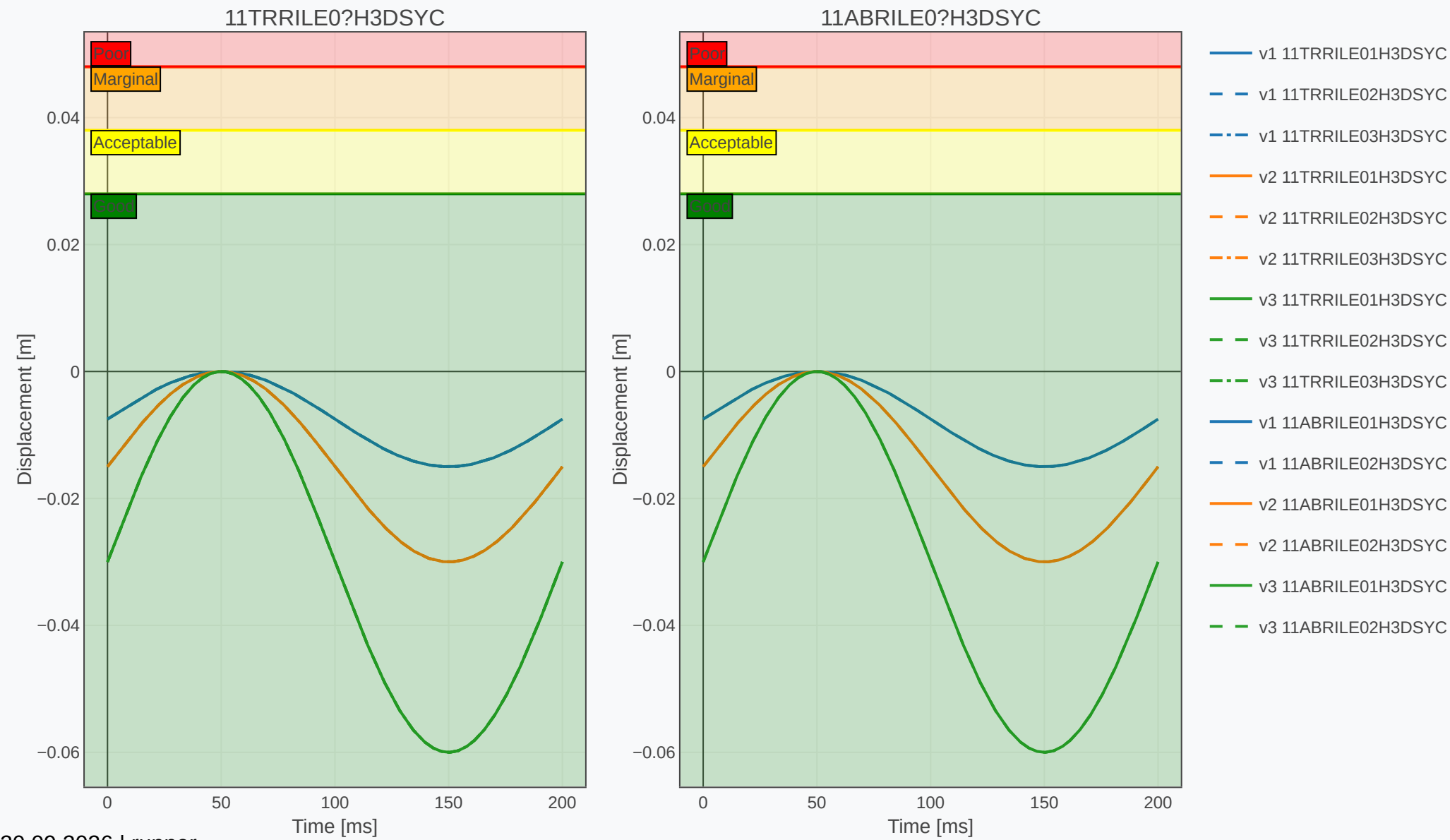
	HIC15	Start [ms]	End [ms]
v1	51.0	92.60	107.50
v2	288.6	92.60	107.50
v3	1632.6	92.60	107.50

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

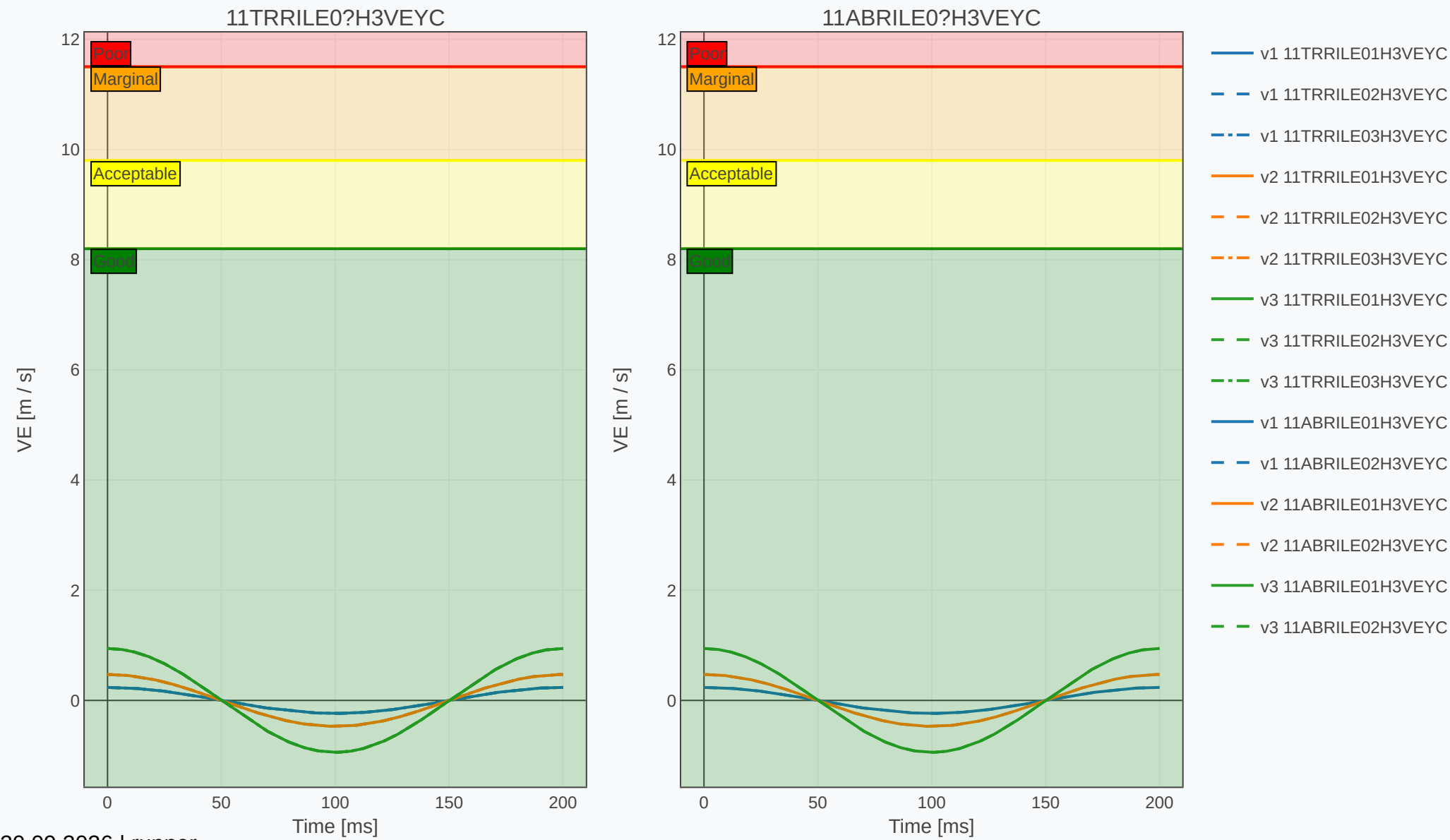
Driver Neck Axial Load



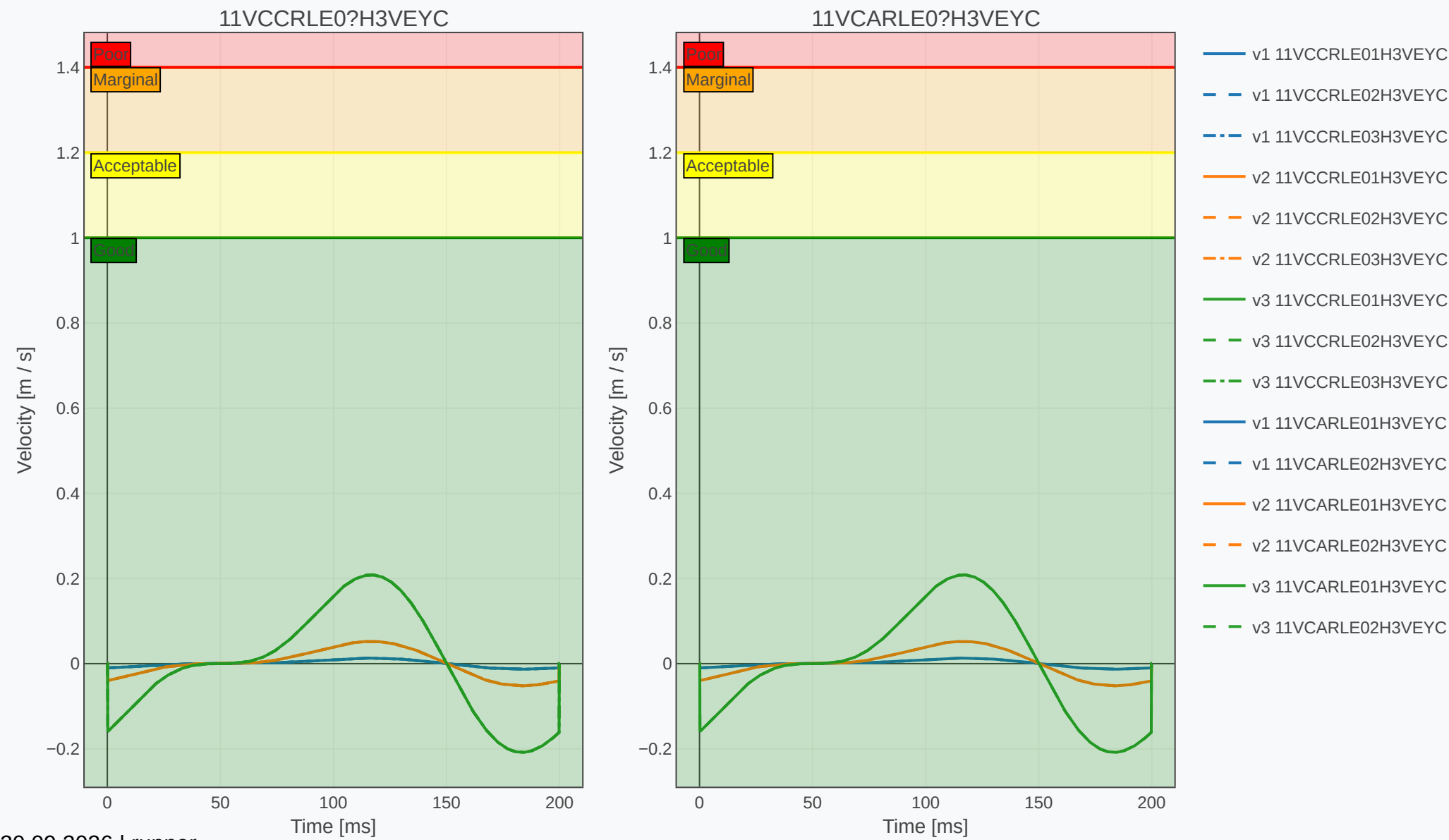
Driver Rib Deflection



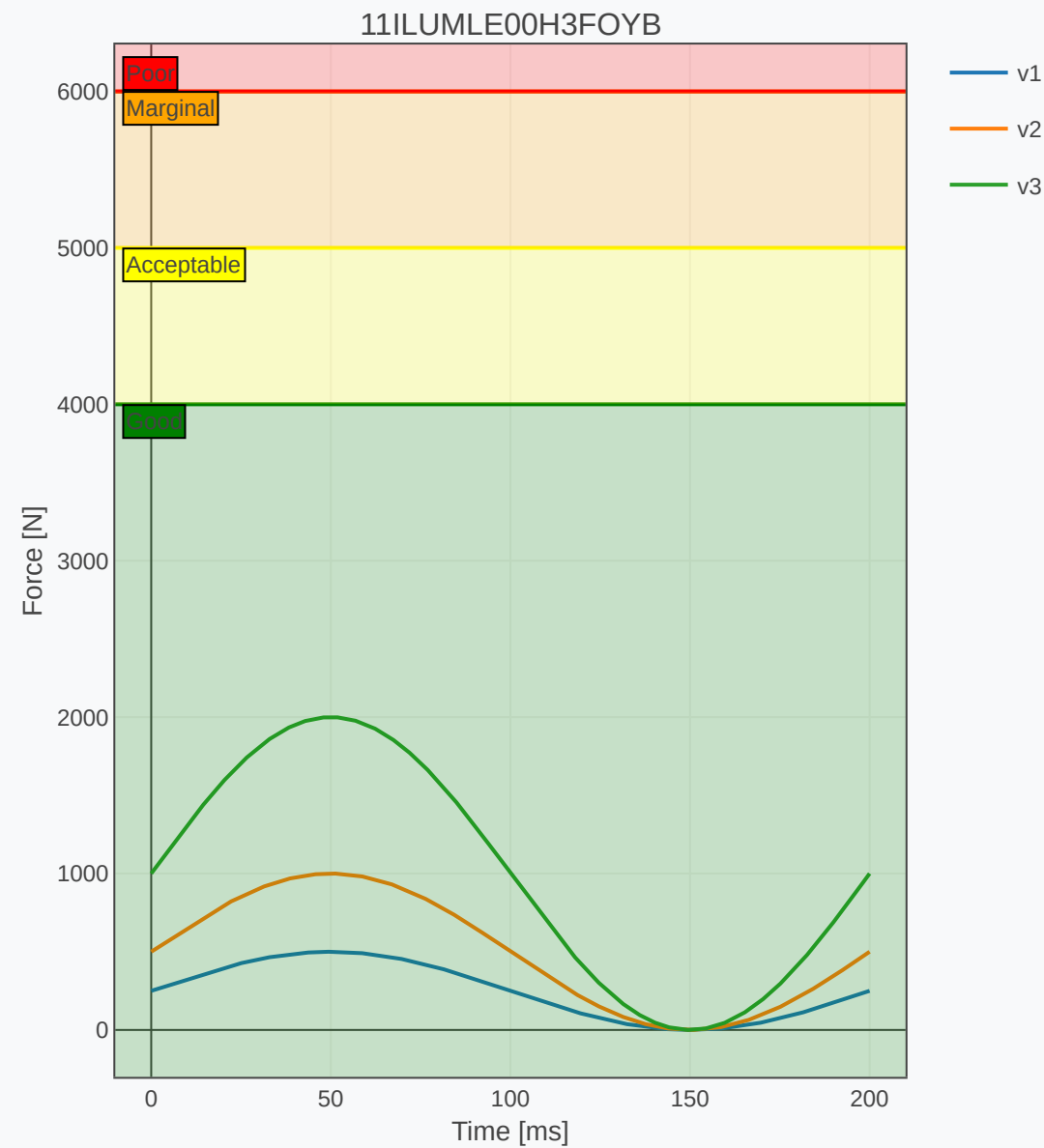
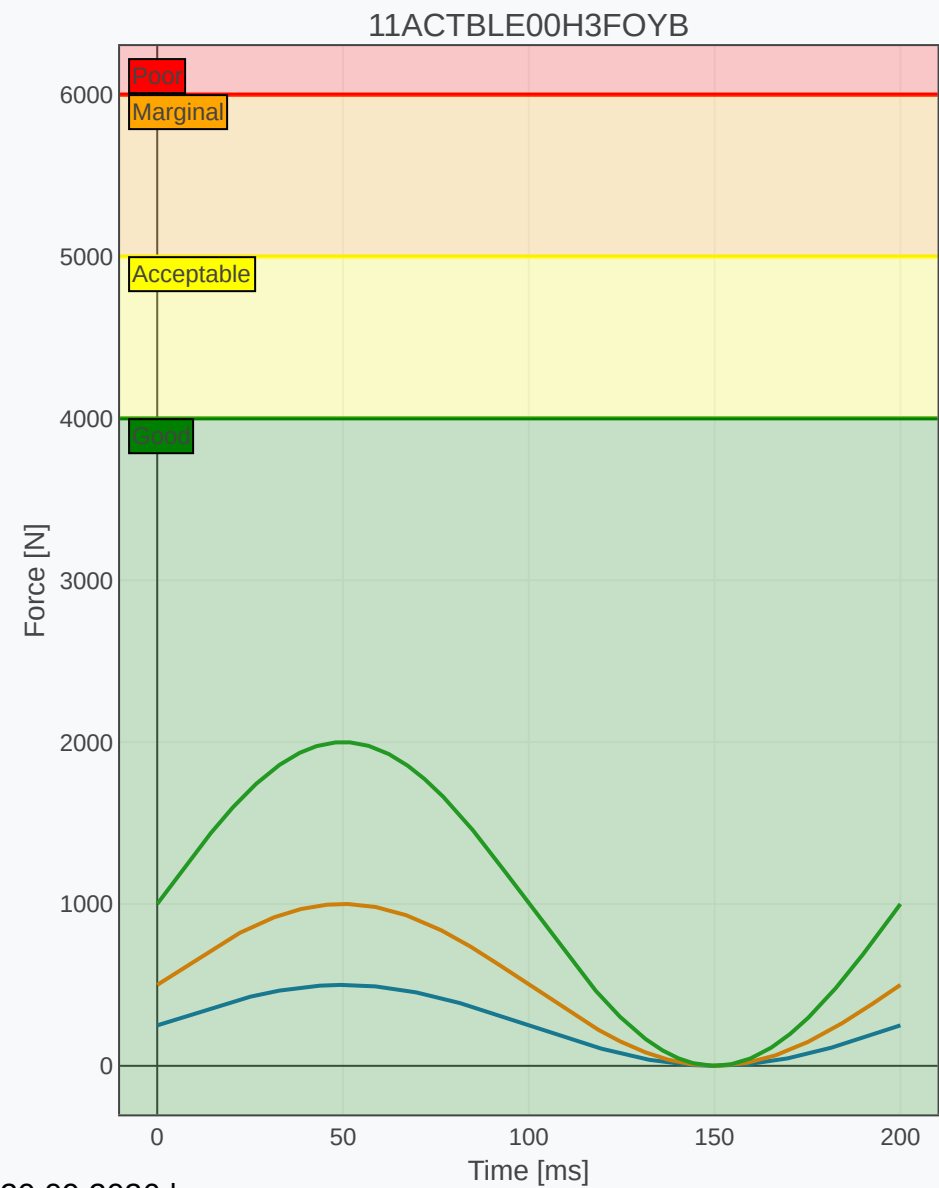
Driver Rib Deflection Rate



Driver Viscous Criterion



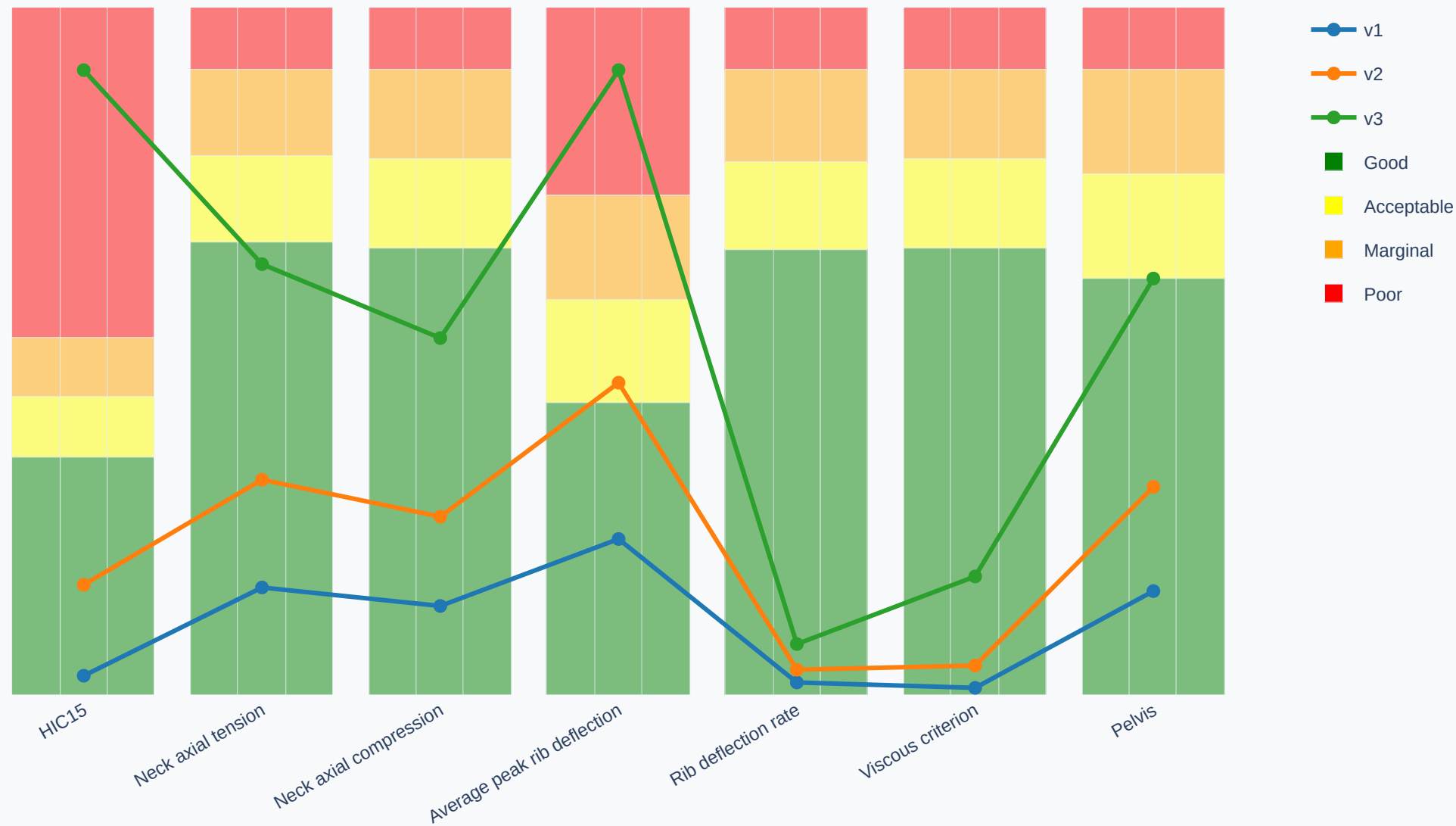
Driver Pelvis Force



Rear Passenger Ratings

	v1	v2	v3
Head and neck	0.0	0.0	-35.0
Torso	0.0	-2.0	-35.0
Pelvis	0.0	0.0	-2.0
Head protection	0.0	0.0	0.0
Rear passenger	0.0	-2.0	-72.0

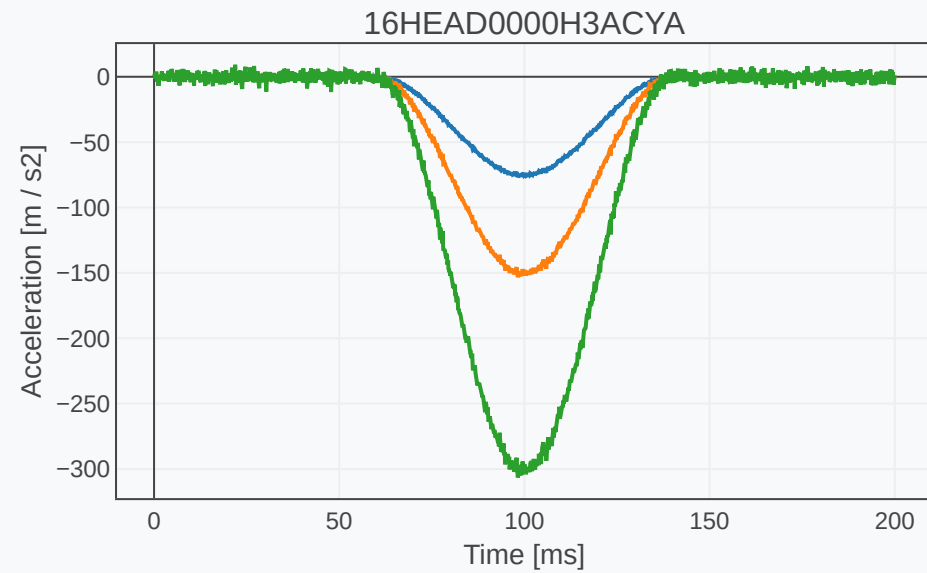
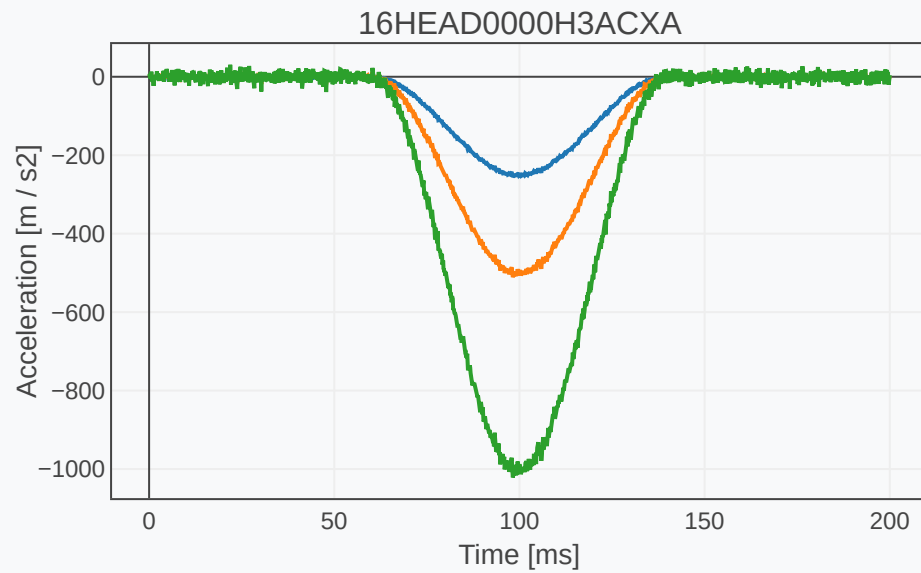
Rear Passenger Injury Values



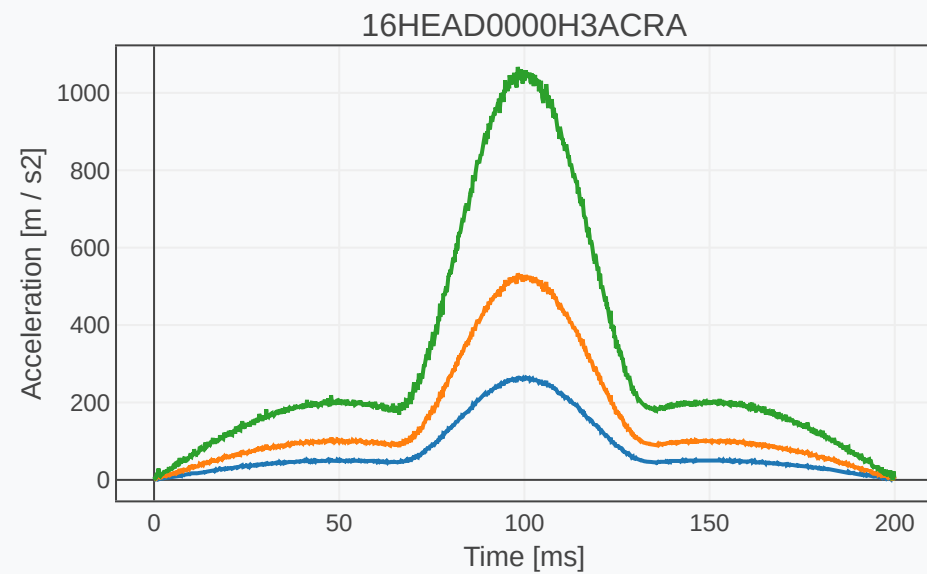
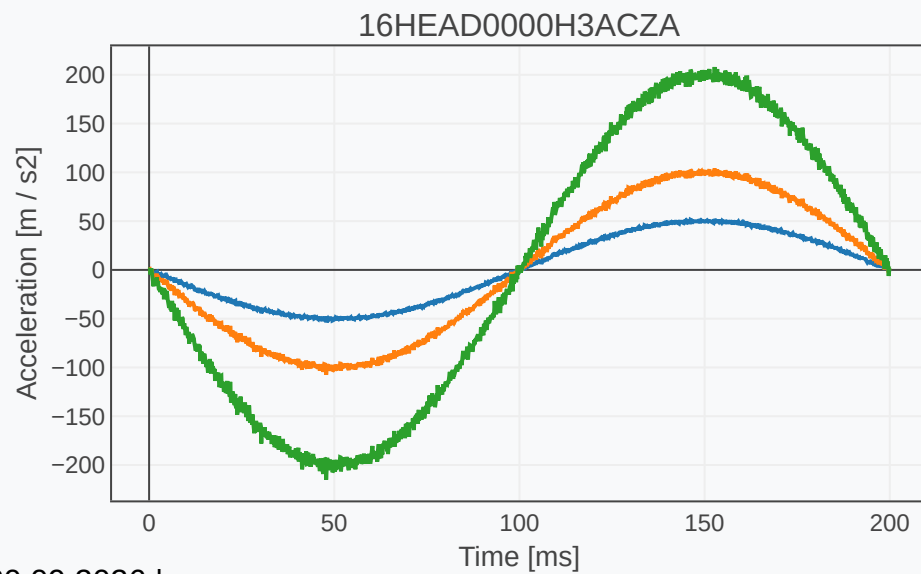
Rear Passenger Injury Values

	v1	v2	v3
HIC15 []	51.02	288.6	1633
Neck axial tension [kN]	0.5	1	2
Neck axial compression [kN]	0.5	1	2
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Rib deflection rate [m / s]	0.2356	0.4712	0.9425
Viscous criterion [m / s]	0.01663	0.06654	0.2662
Pelvis [kN]	1	2	4

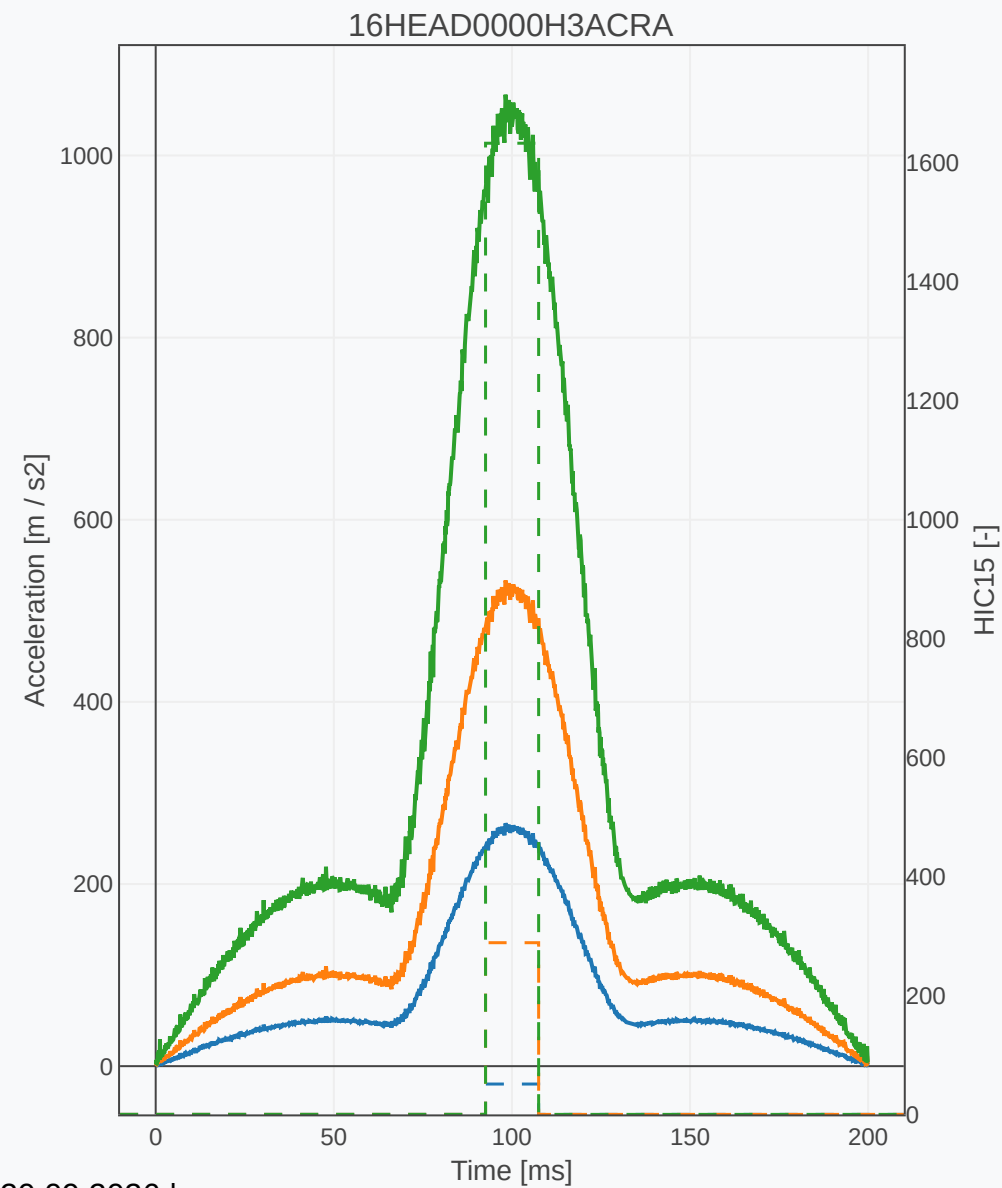
Rear Passenger Head Acceleration



v1
v2
v3



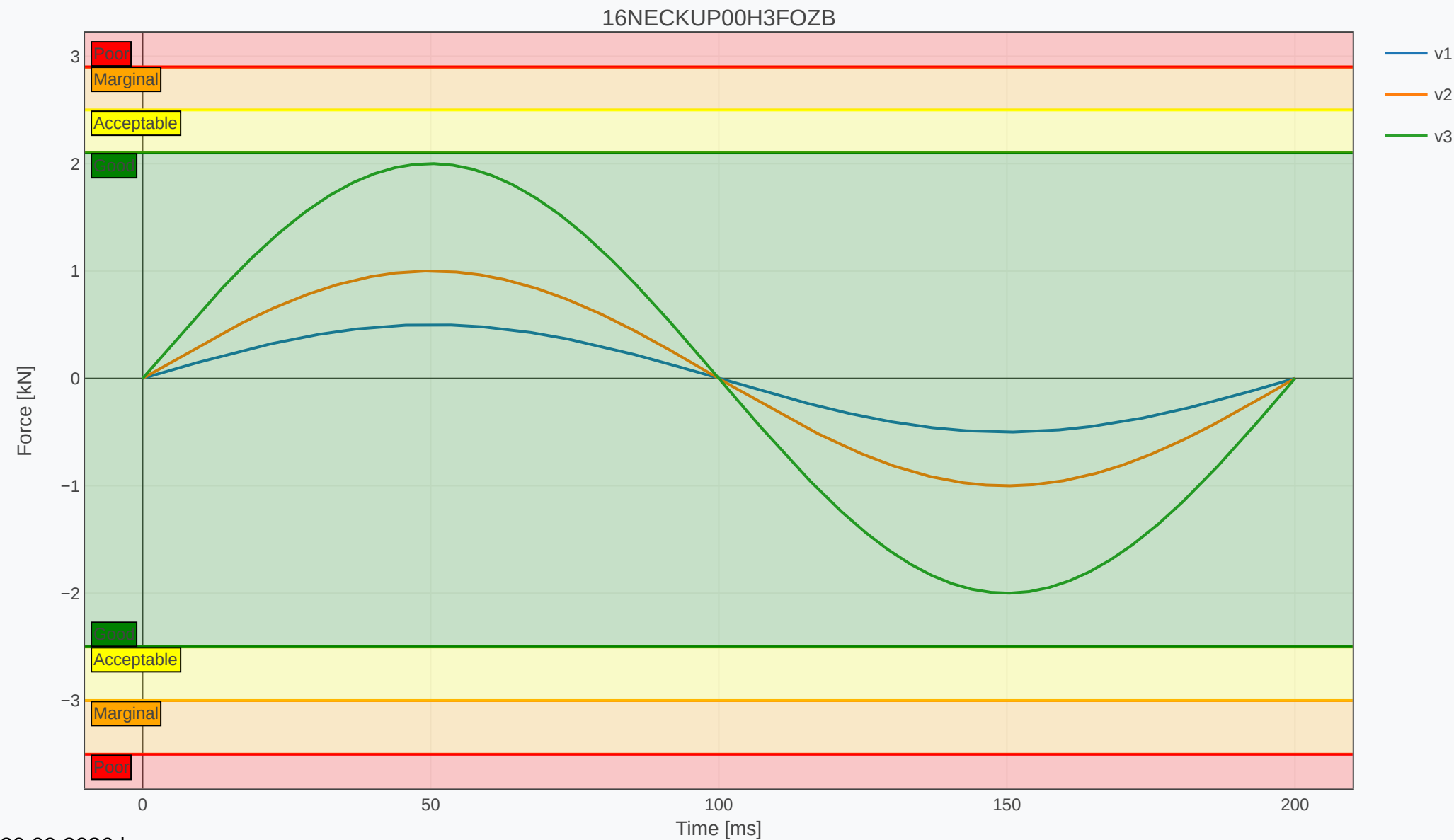
Rear Passenger HIC15



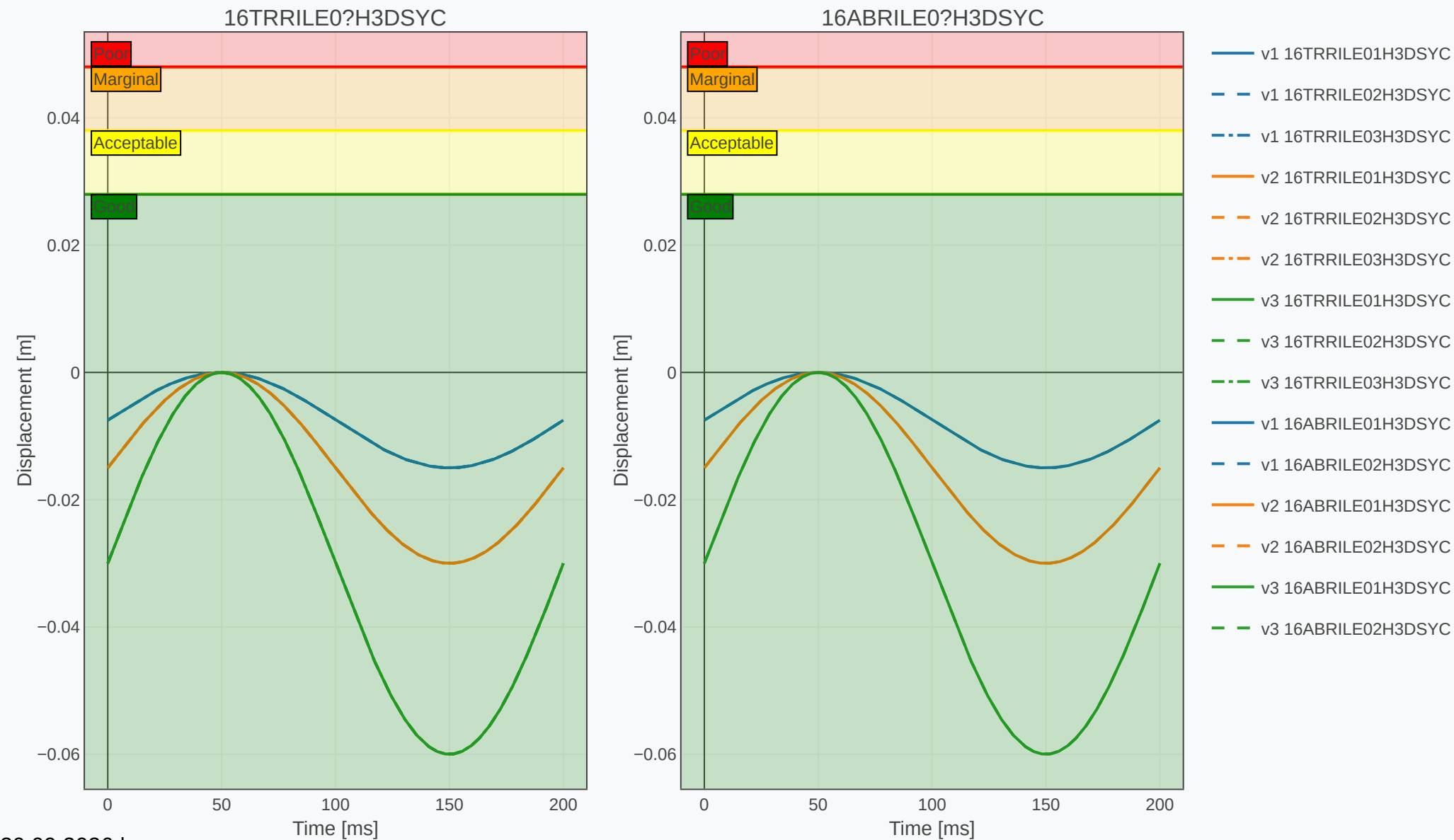
	HIC15	Start [ms]	End [ms]
v1	51.0	92.60	107.50
v2	288.6	92.60	107.50
v3	1632.6	92.60	107.50

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

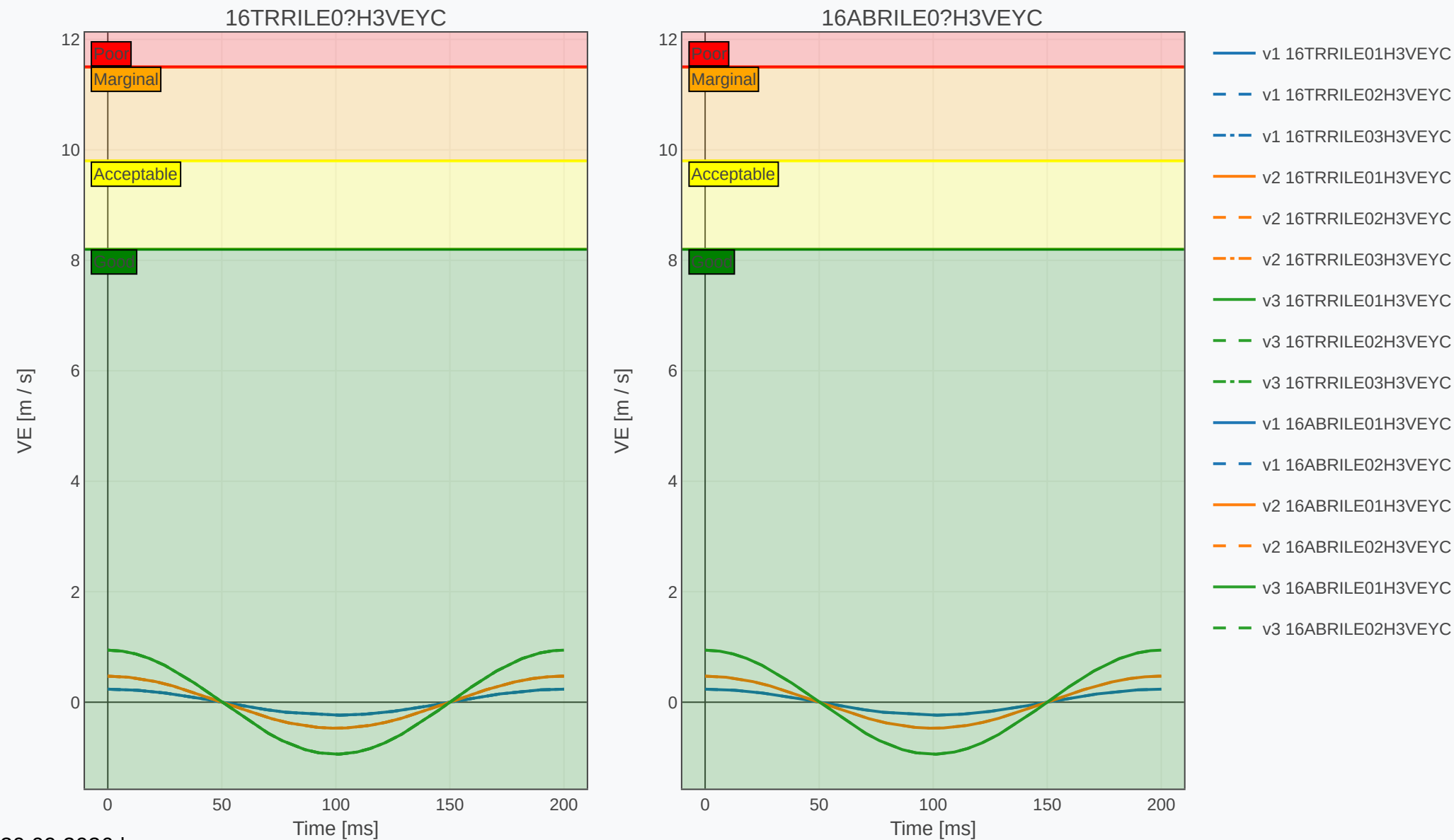
Rear Passenger Neck Axial Load



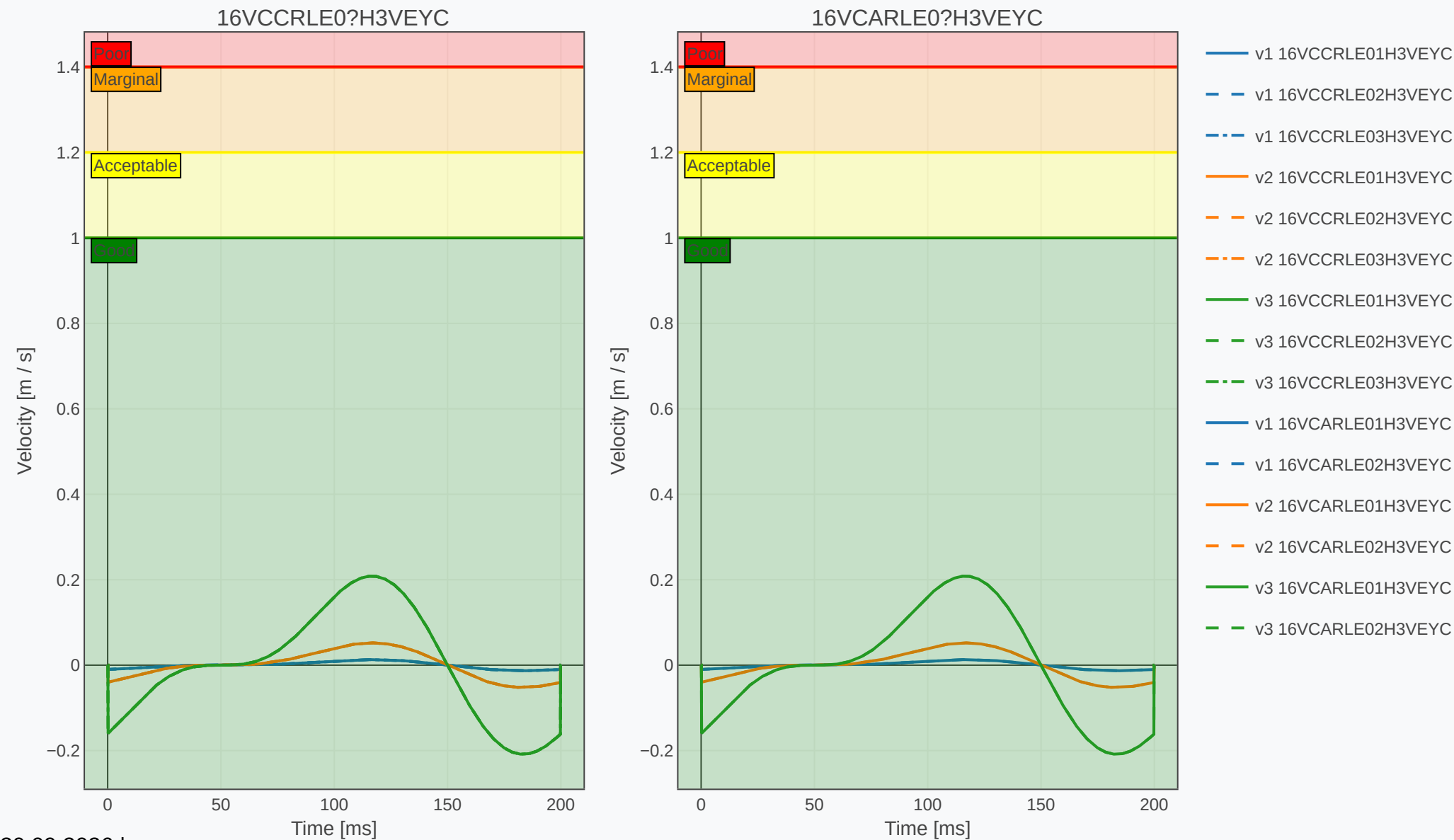
Rear Passenger Rib Deflection



Rear Passenger Rib Deflection Rate



Rear Passenger Viscous Criterion



Rear Passenger Pelvis Force

