

Unnamed Report

UN-R94 | Frontal-Impact against ODB with 40 % Overlap at 56 km/h
v1 | v2 | v3

Report Status

	v1	v2	v3
Overall	OK	OK	OK
Driver	OK	OK	OK
Head Performance Criterion (HPC 36)	OK	OK	OK
Head a3ms	OK	OK	OK
Neck Fz tension	OK	OK	OK
Neck Fx shear	OK	OK	OK
Neck My extension	OK	OK	OK
Chest Deflection	OK	OK	OK
Chest VC	OK	OK	OK
Femur Compression	OK	OK	OK
Tibia Compression	OK	OK	OK
Tibia Index	OK	OK	OK
Knee Slider Compression	OK	OK	OK
Passenger	OK	OK	OK
Head Performance Criterion (HPC 36)	OK	OK	OK
Head a3ms	OK	OK	OK
Neck Fz tension	OK	OK	OK
Neck Fx shear	OK	OK	OK
Neck My extension	OK	OK	OK

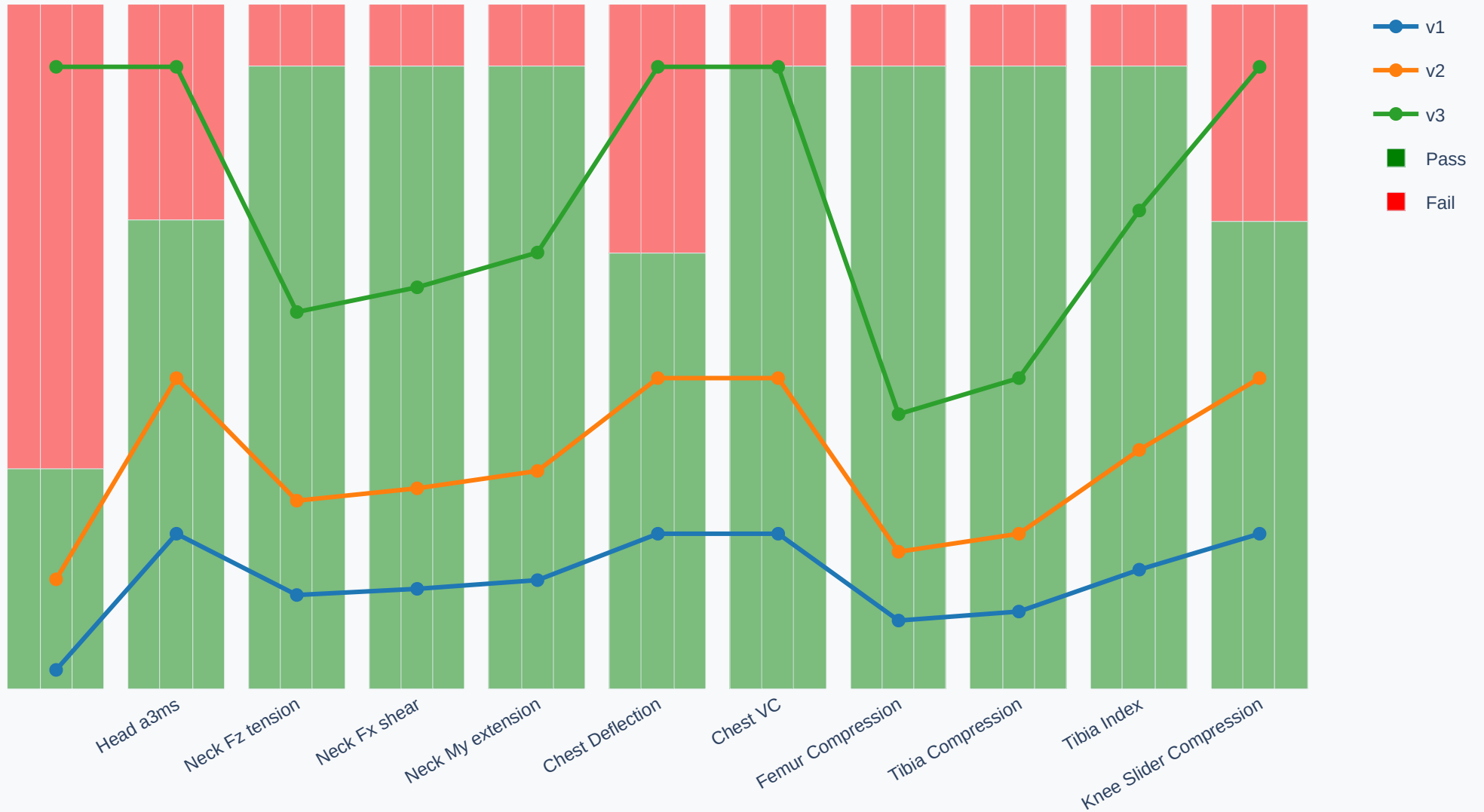
Manual Inputs

	Default	Source	v1	v2	v3
p_driver	'1'	test report	'1'	'1'	'1'
p_passenger	'3'	test report	'3'	'3'	'3'
head_contact	True	video	True	True	True
head_contact	True	video	True	True	True

Rating

	v1	v2	v3
Driver	1.0	1.0	0.0
Passenger	1.0	1.0	0.0
Overall	1.0	1.0	0.0

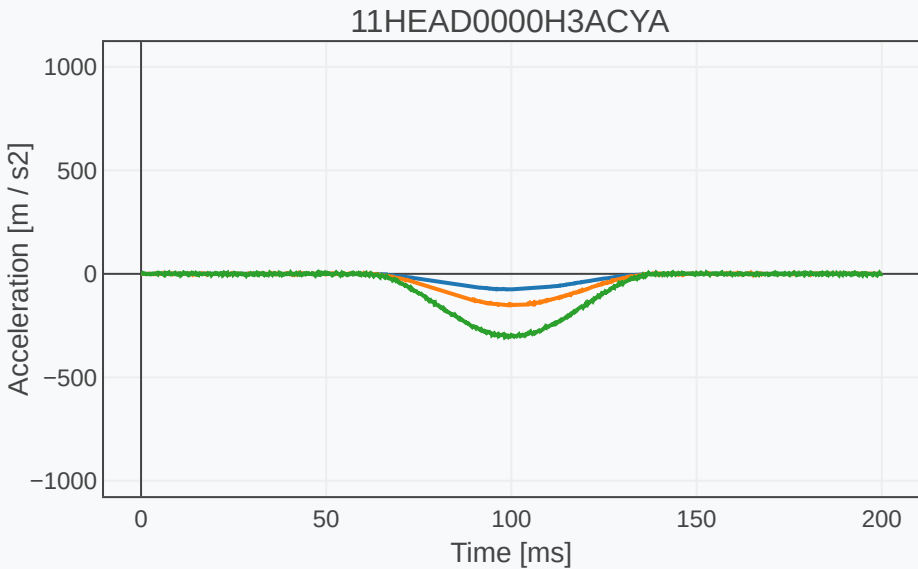
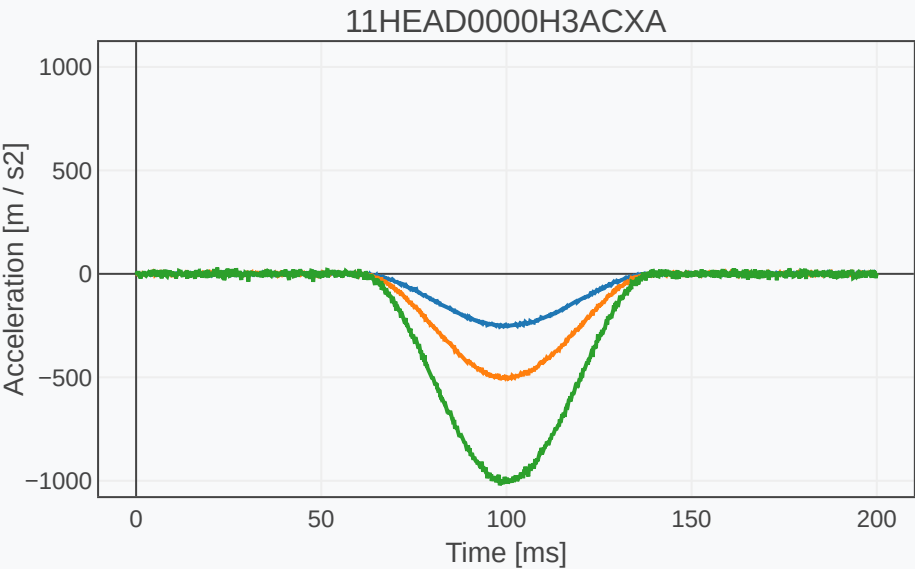
Driver Result



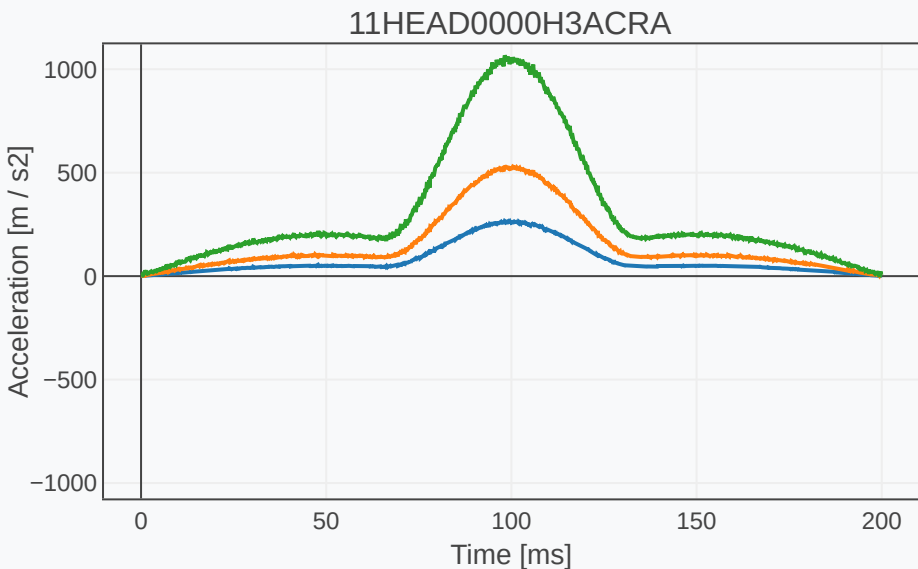
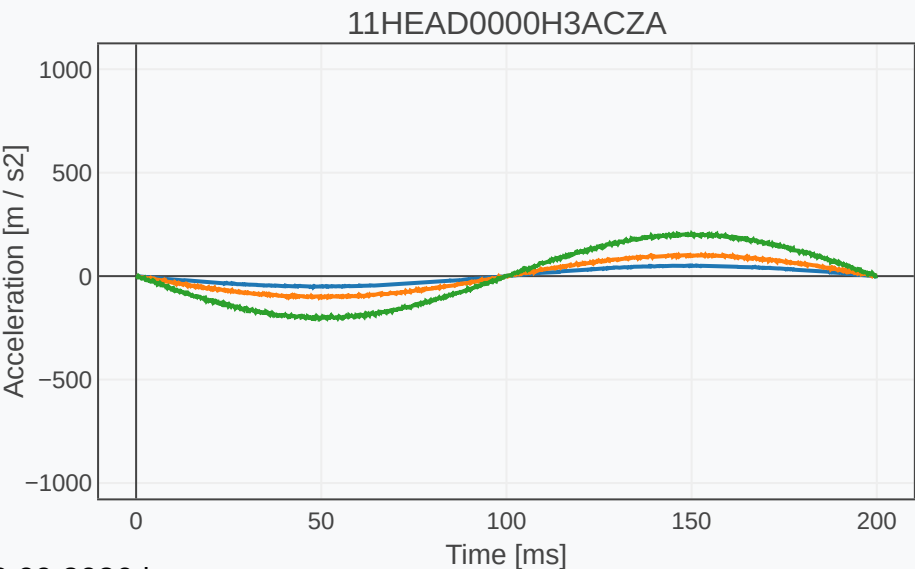
Driver Values

	v1	v2	v3
Head Performance Criterion (HPC 36) []	88.24	499.2	2824
Head a3ms [g0]	26.56	53.11	106.2
Neck Fz tension [kN]	0.5	1	2
Neck Fx shear [kN]	0.5	1	2
Neck My extension [N m]	-10	-20	-40
Chest Deflection [mm]	-15	-30	-60
Chest VC [m / s]	-0.25	-0.5	-1
Femur Compression [kN]	-1	-2	-4
Tibia Compression [kN]	-1	-2	-4
Tibia Index []	0.25	0.5	1
Knee Slider Compression [mm]	-5	-10	-20

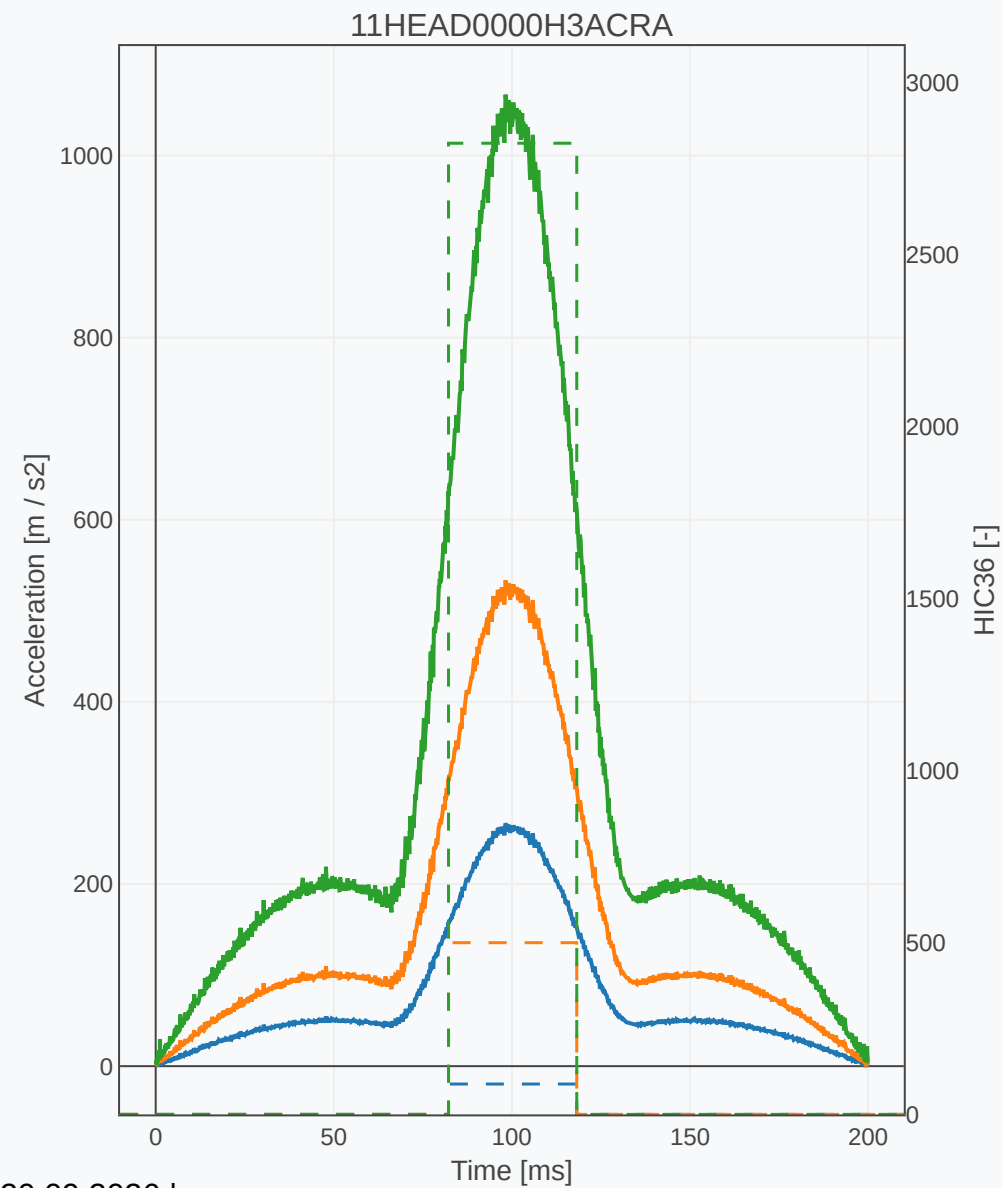
Driver Head Acceleration



- v1
- v2
- v3



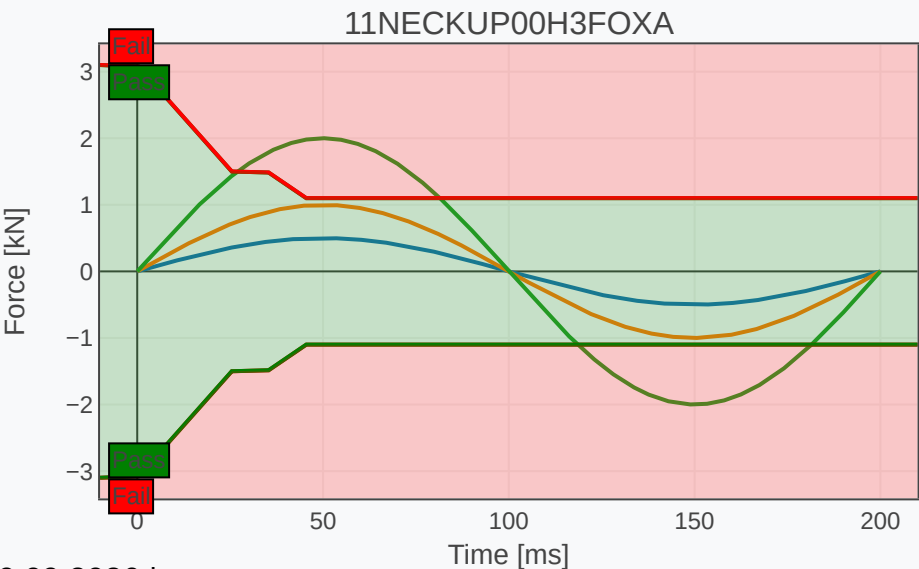
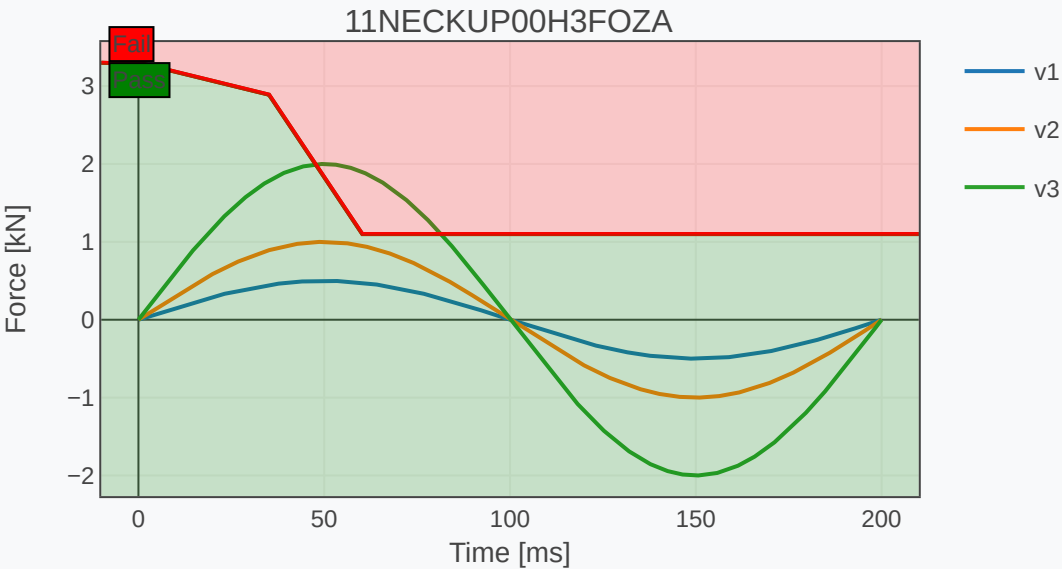
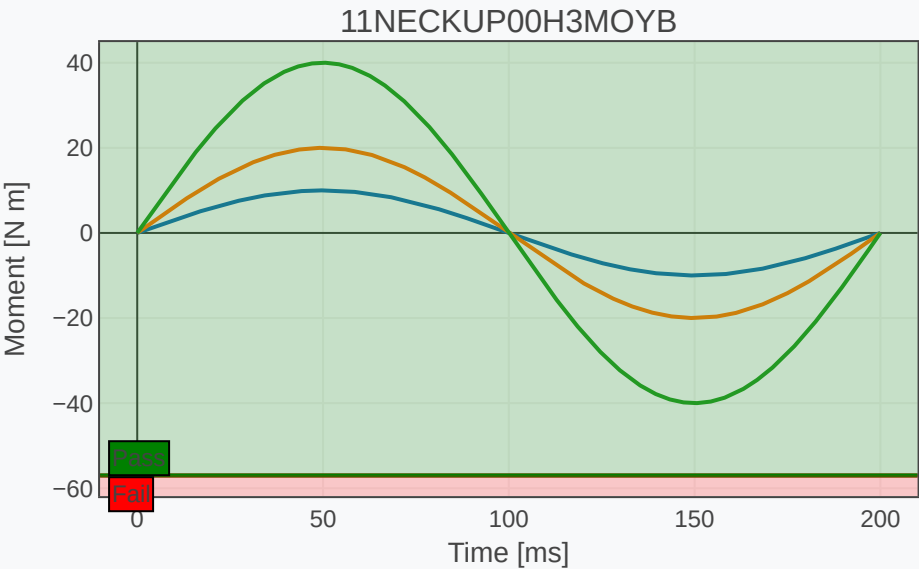
Driver HPC36



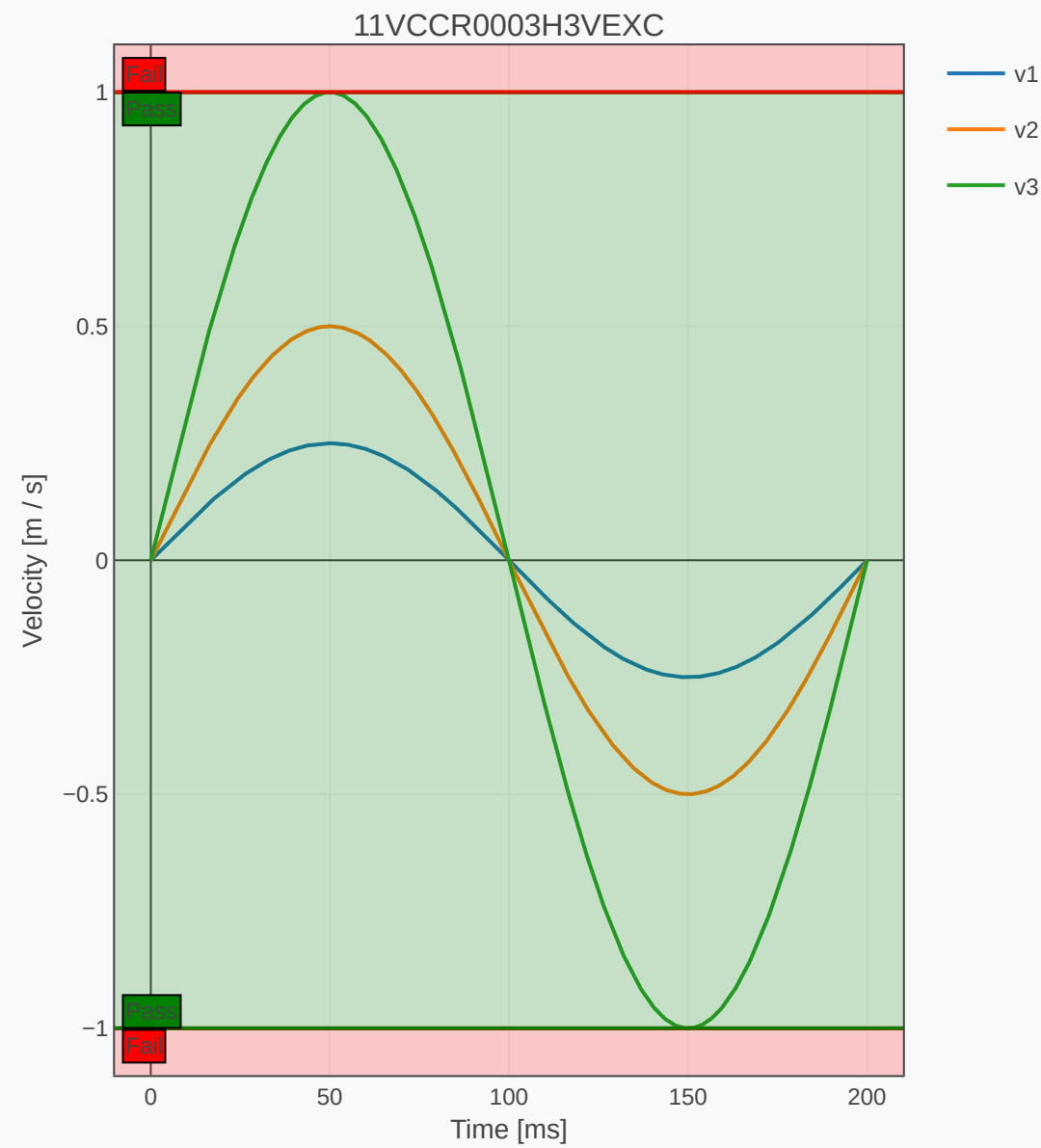
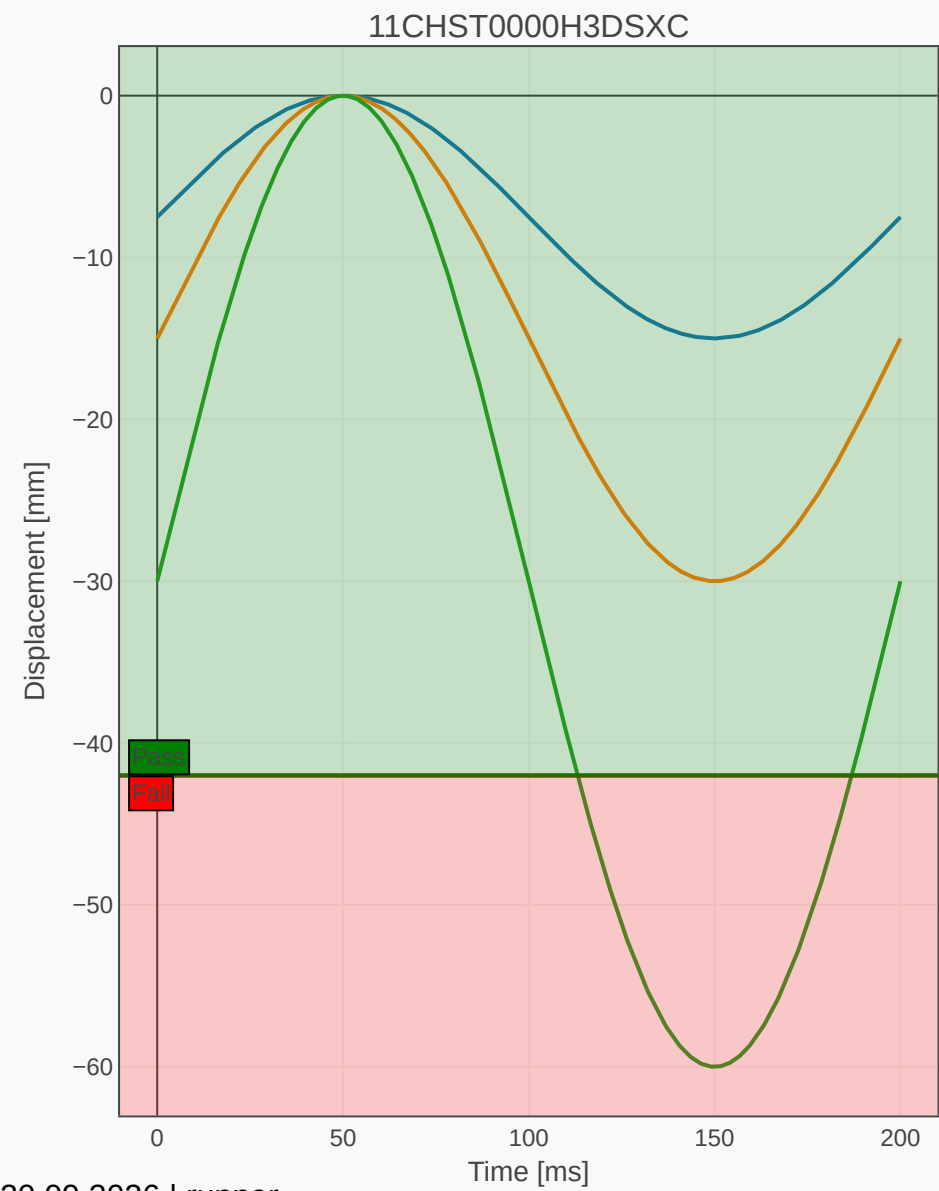
	HIC36	Start [ms]	End [ms]
v1	88.2	82.20	118.20
v2	499.2	82.20	118.20
v3	2823.8	82.20	118.20

- v1
- v2
- v3
- v1 HIC36
- v2 HIC36
- v3 HIC36

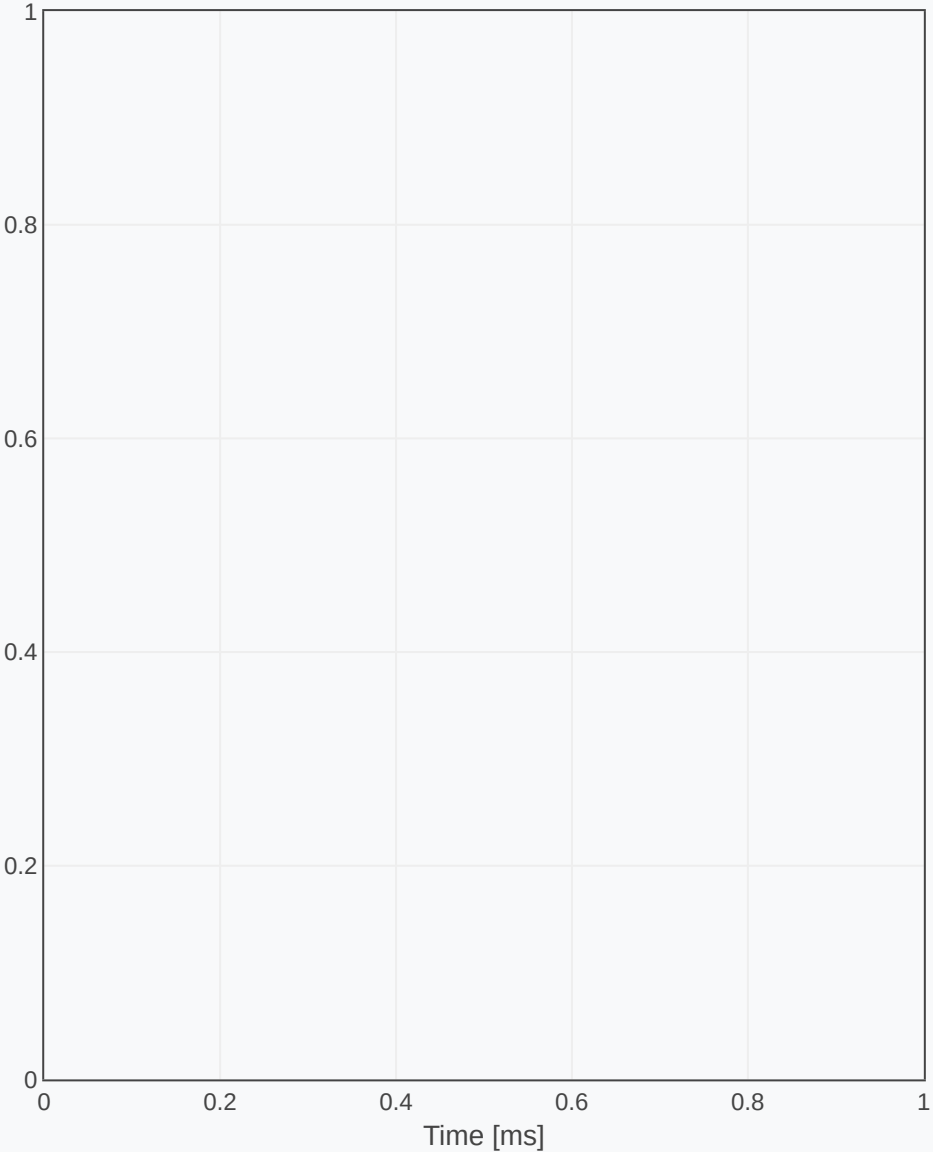
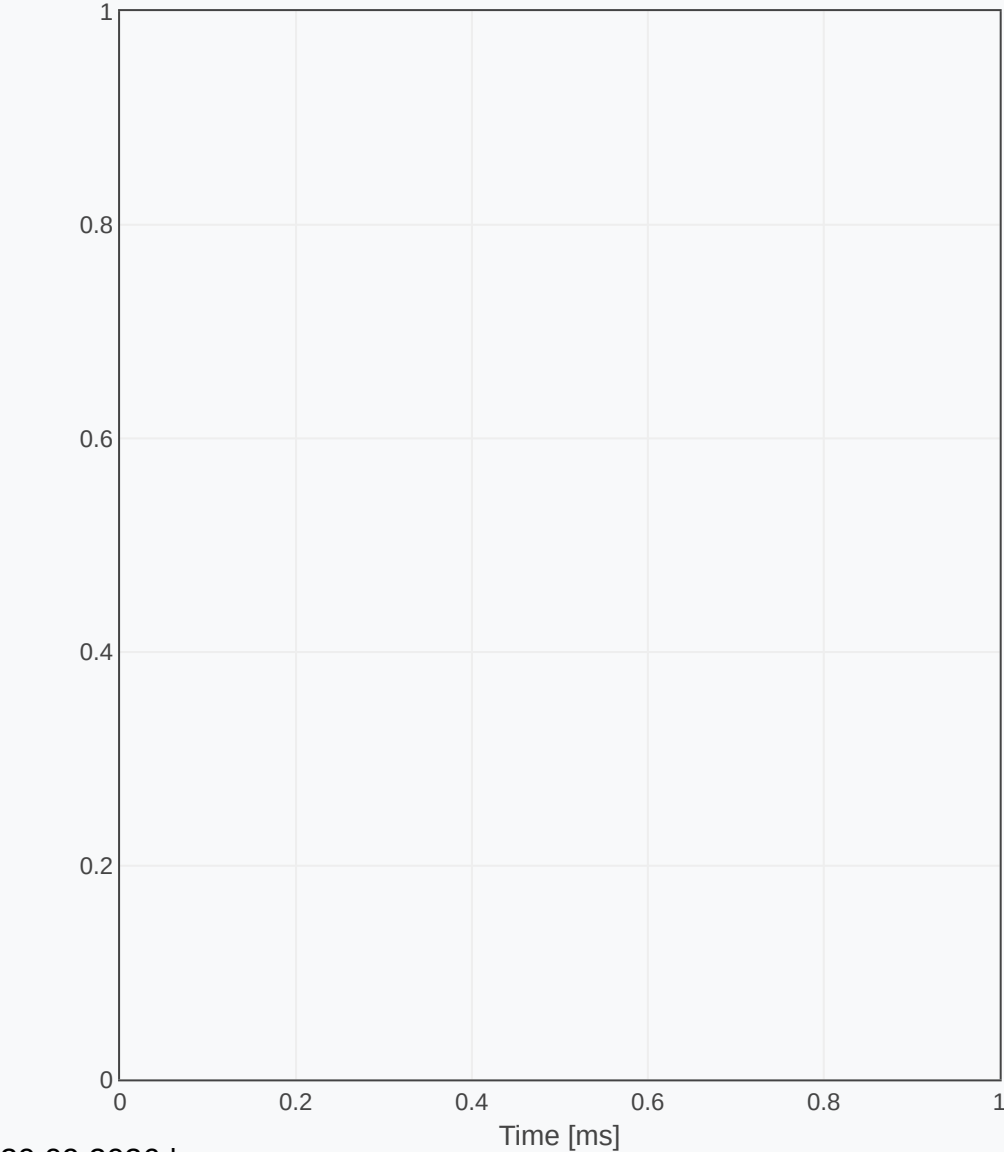
Driver Neck Load



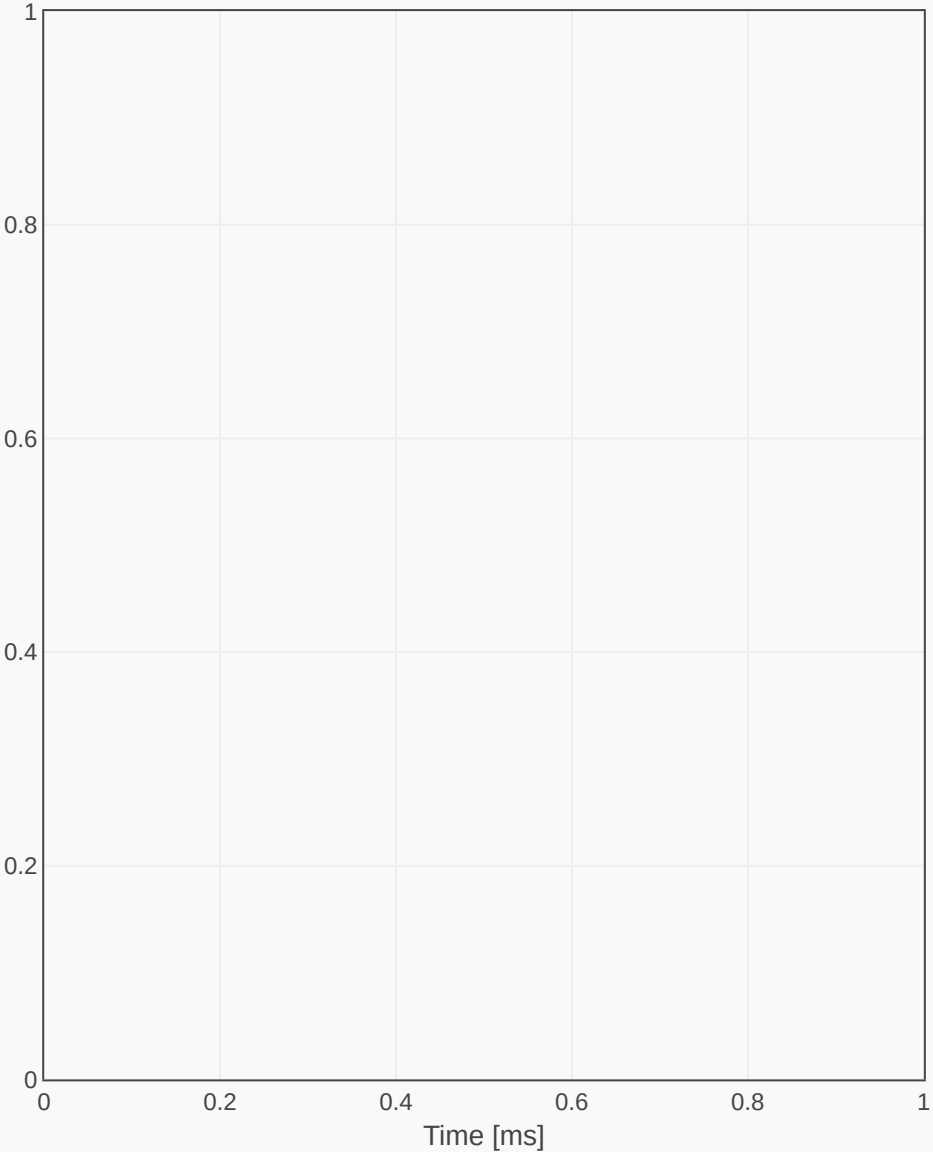
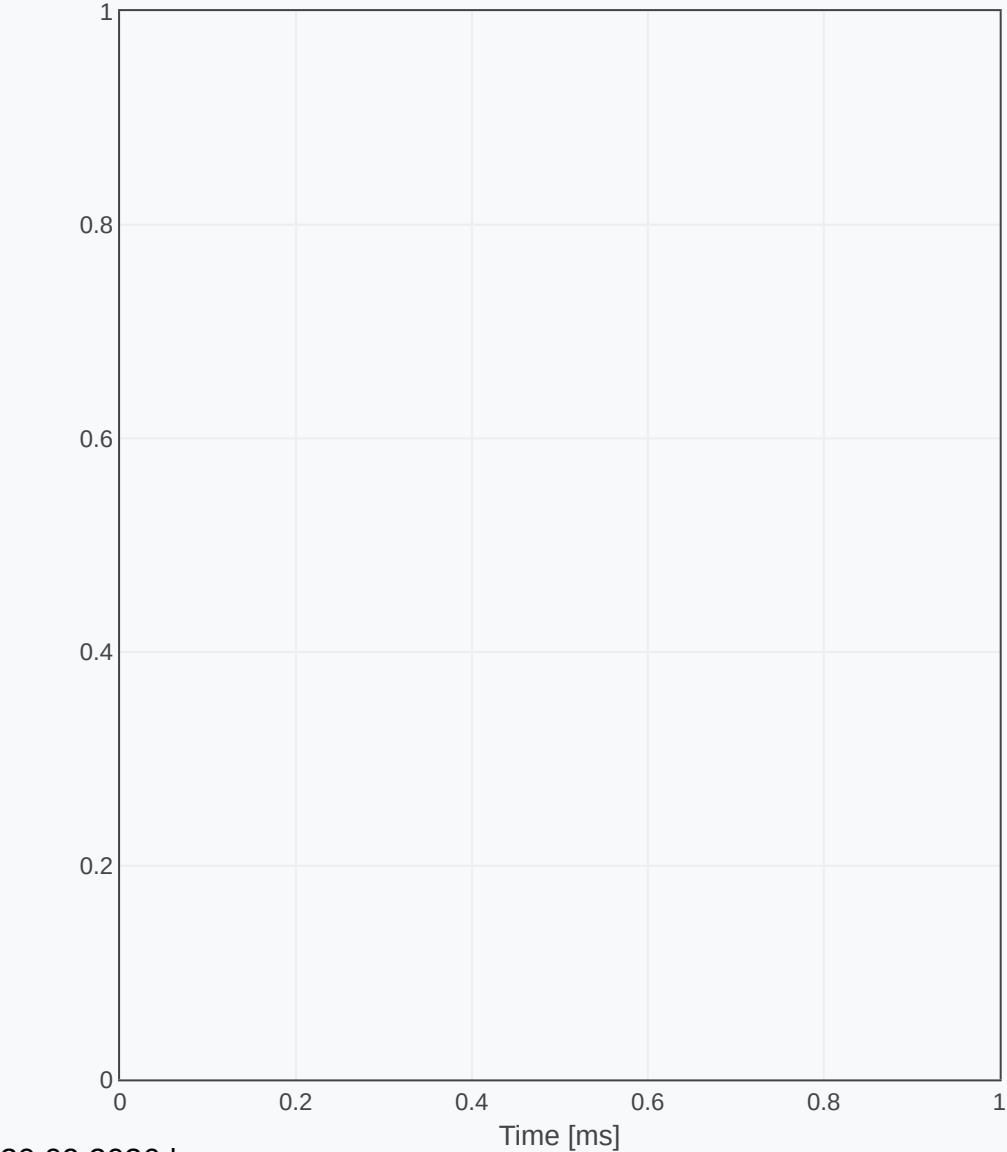
Driver Chest Deflection



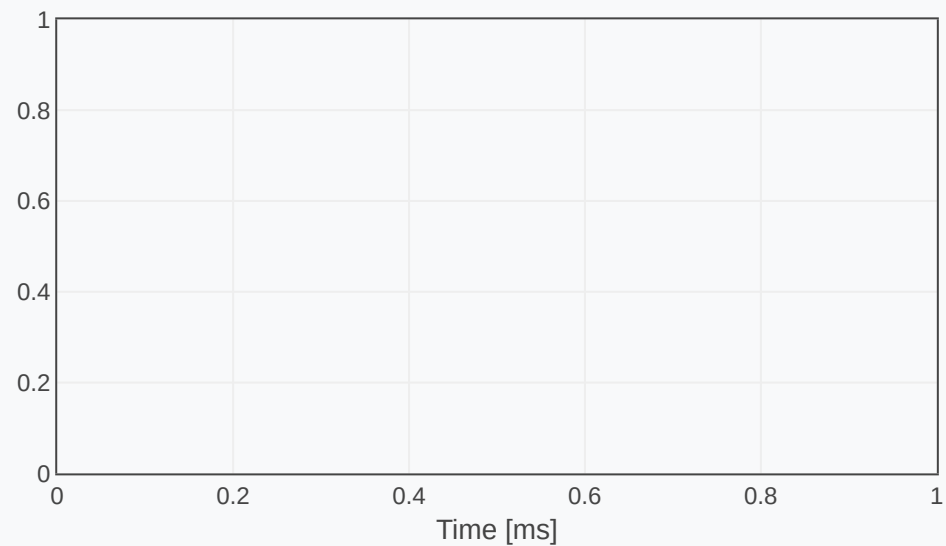
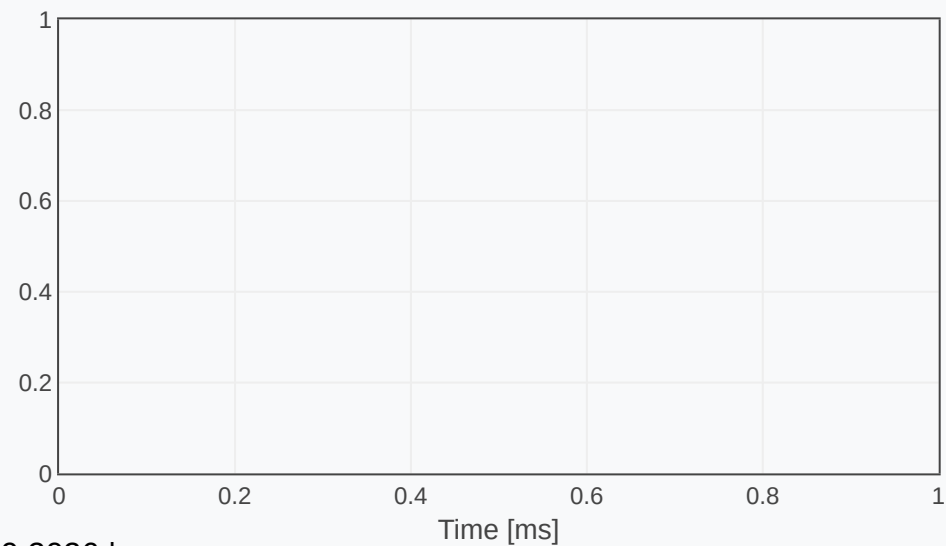
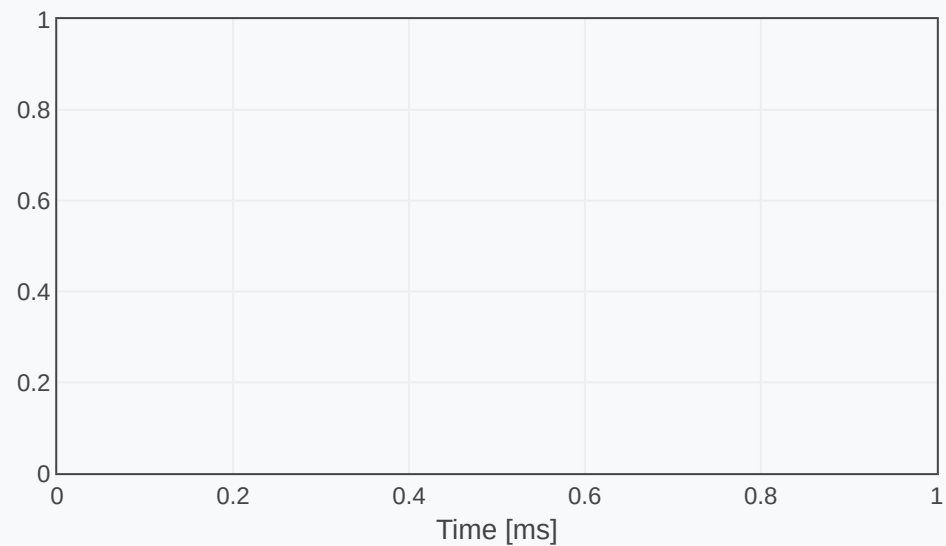
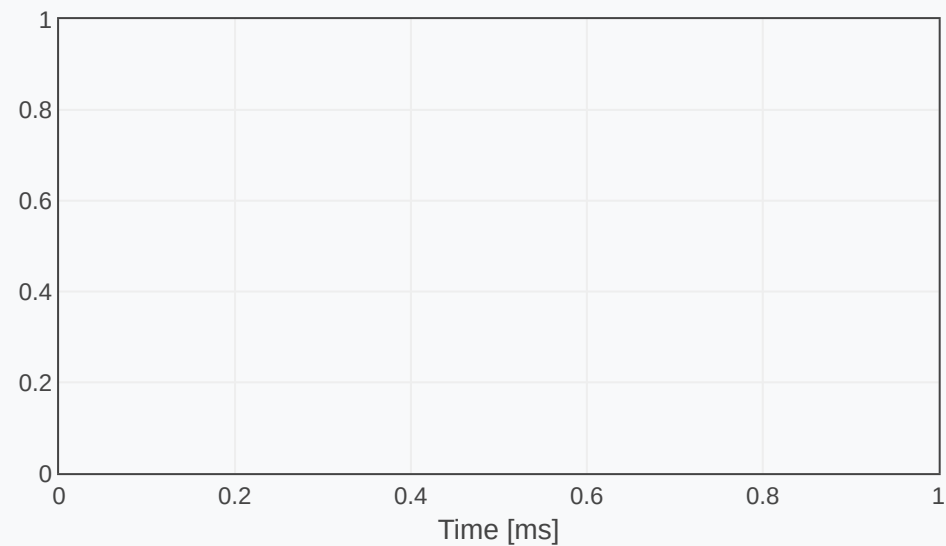
Driver Femur Axial Force



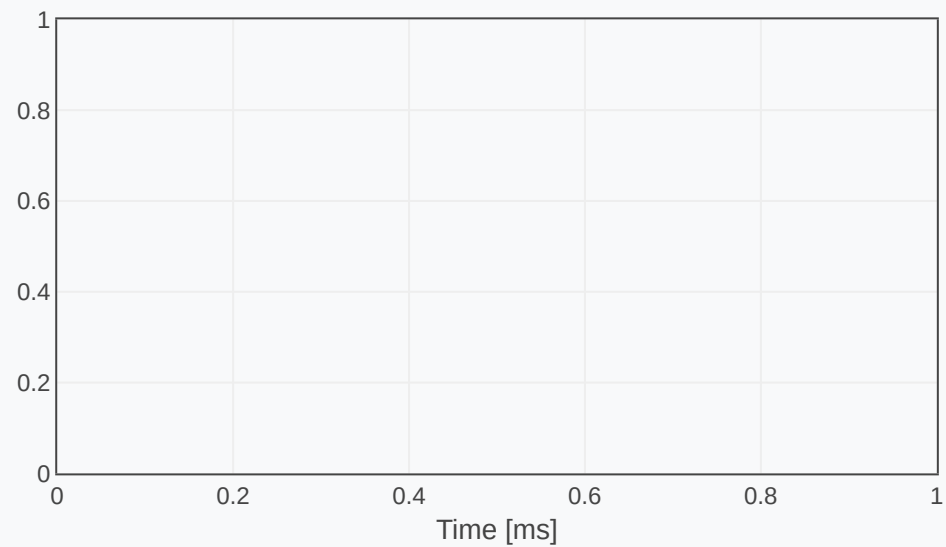
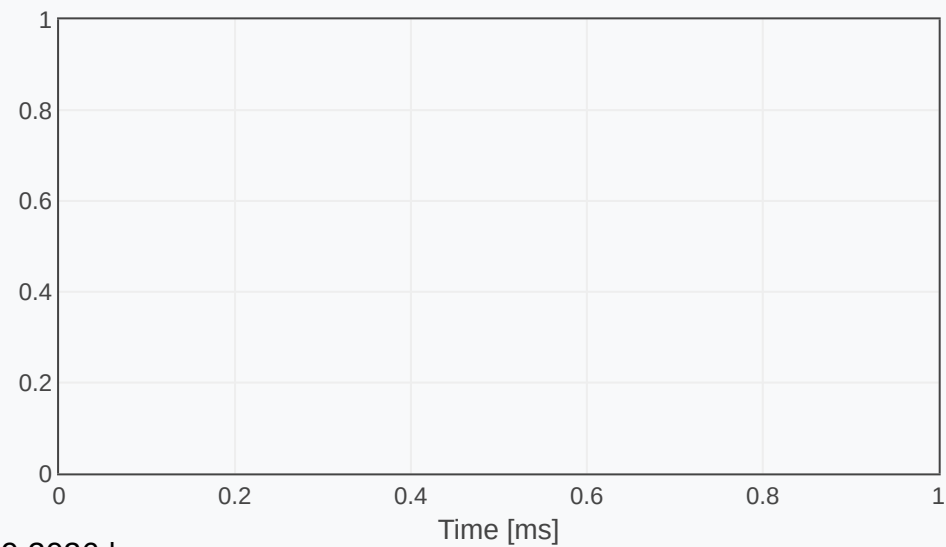
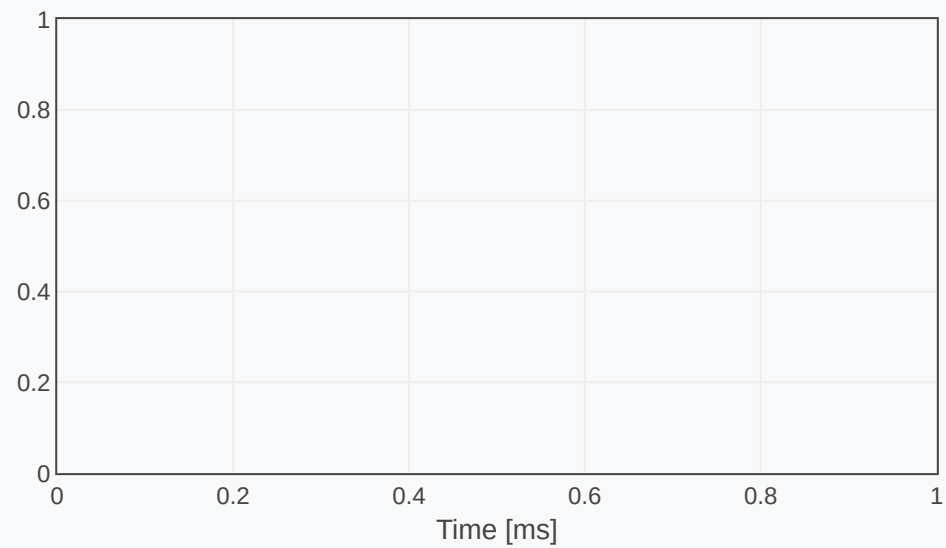
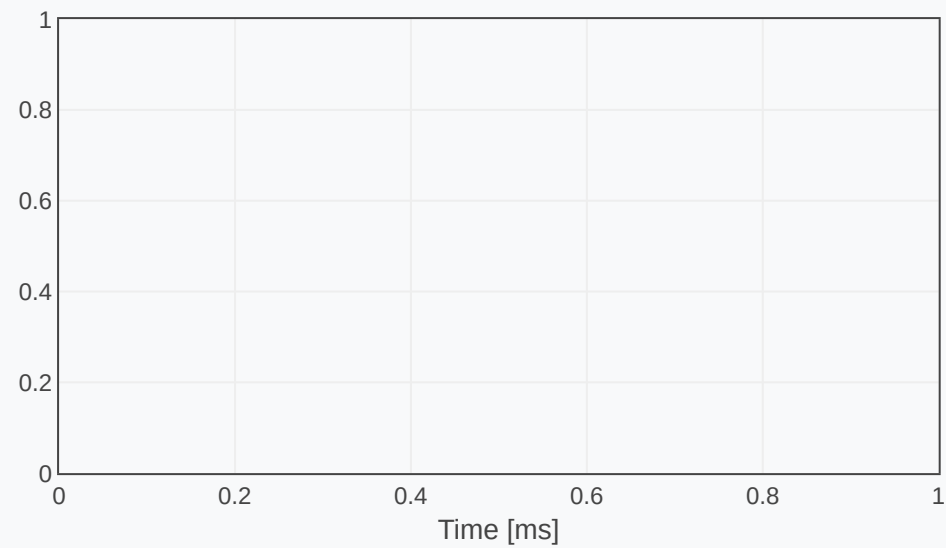
Driver Knee Slider Compression



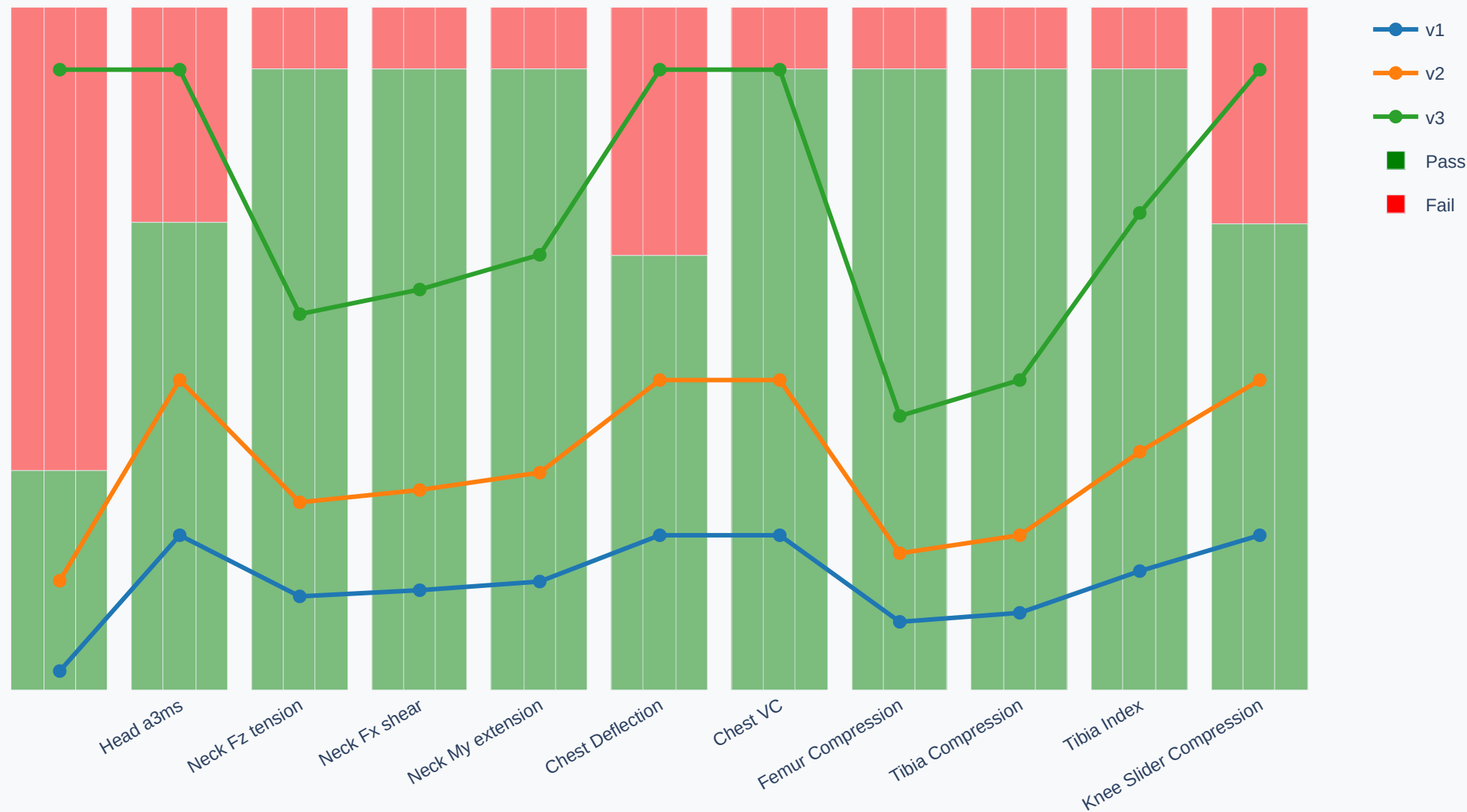
Driver Tibia Compression



Driver Tibia Index



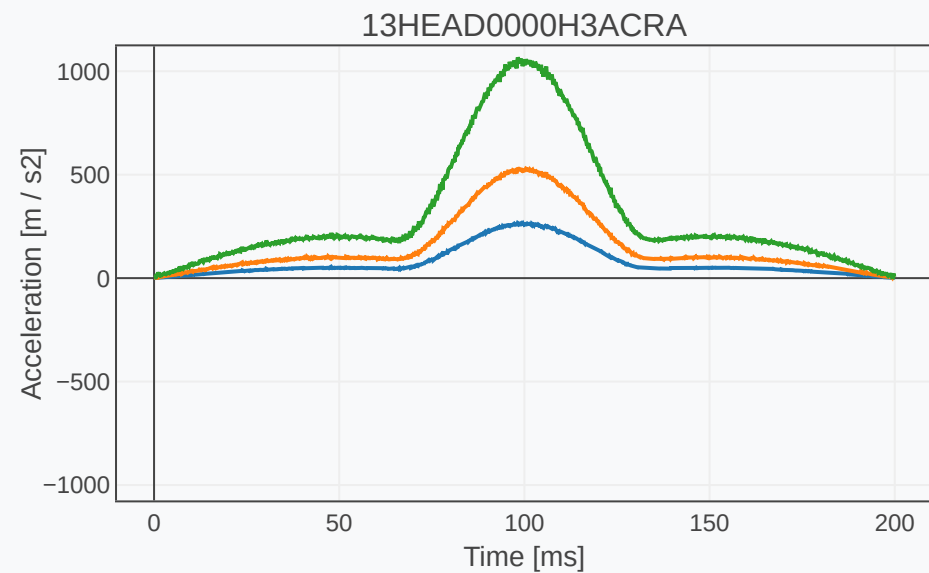
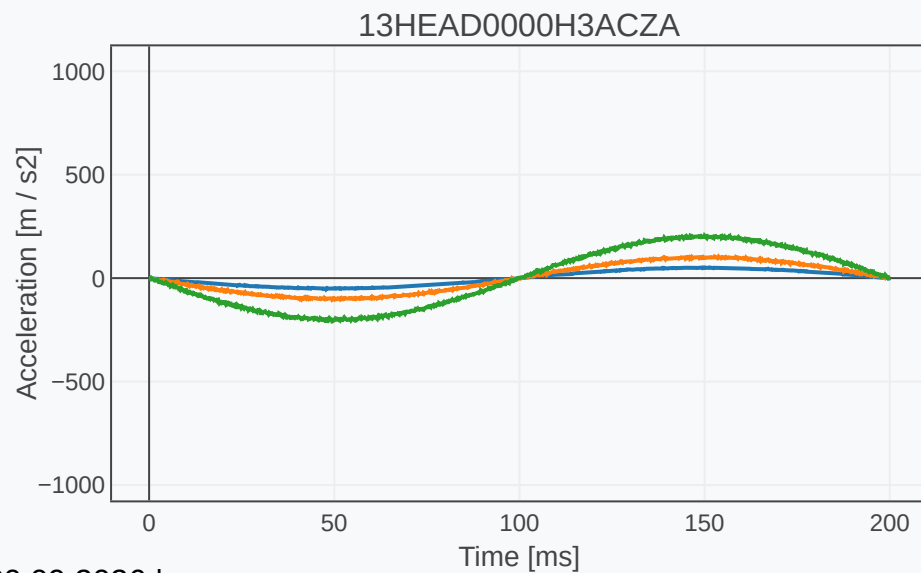
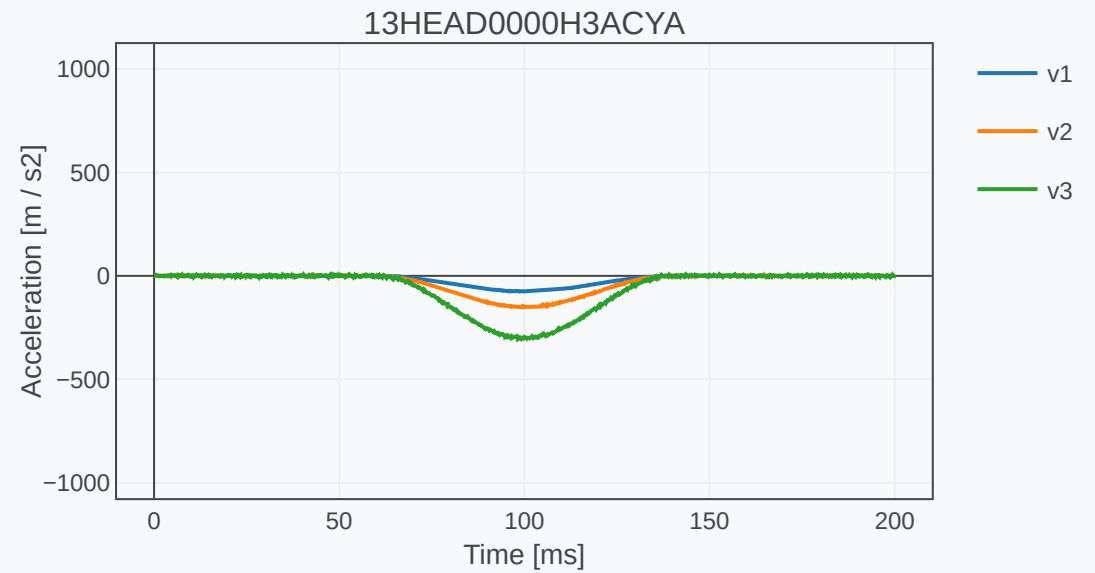
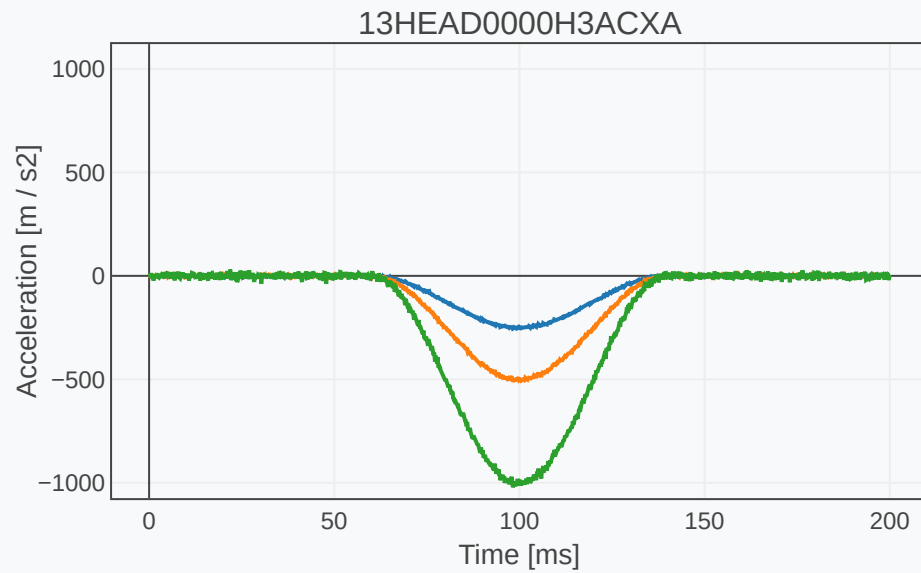
Passenger Result



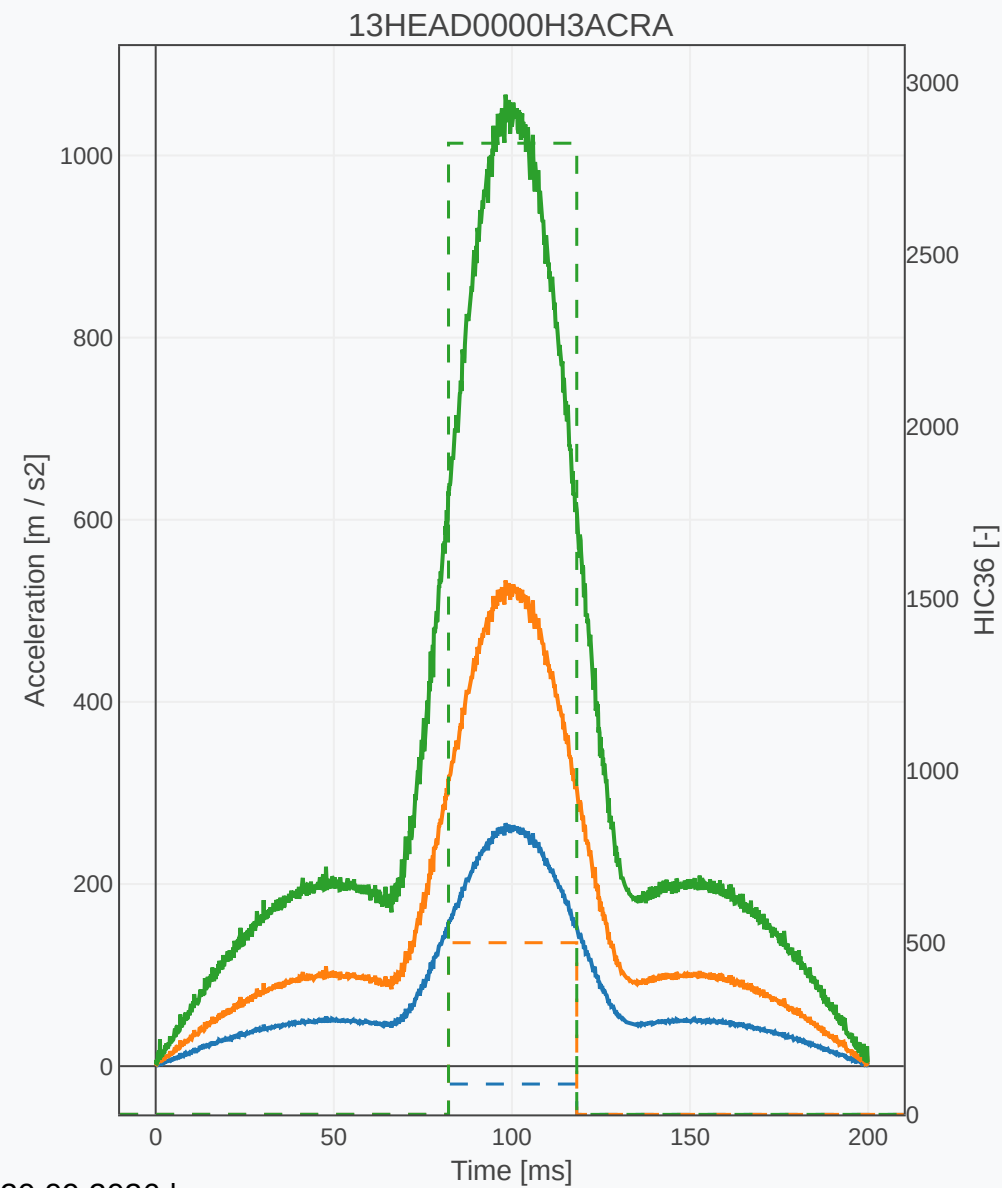
Passenger Values

	v1	v2	v3
Head Performance Criterion (HPC 36) []	88.24	499.2	2824
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Chest VC [m / s]	-0.25	-0.5	-1
Femur Compression [kN]	-1	-2	-4
Tibia Compression [kN]	-1	-2	-4
Tibia Index []	0.25	0.5	1
Knee Slider Compression [mm]	-5	-10	-20

Passenger Head Acceleration



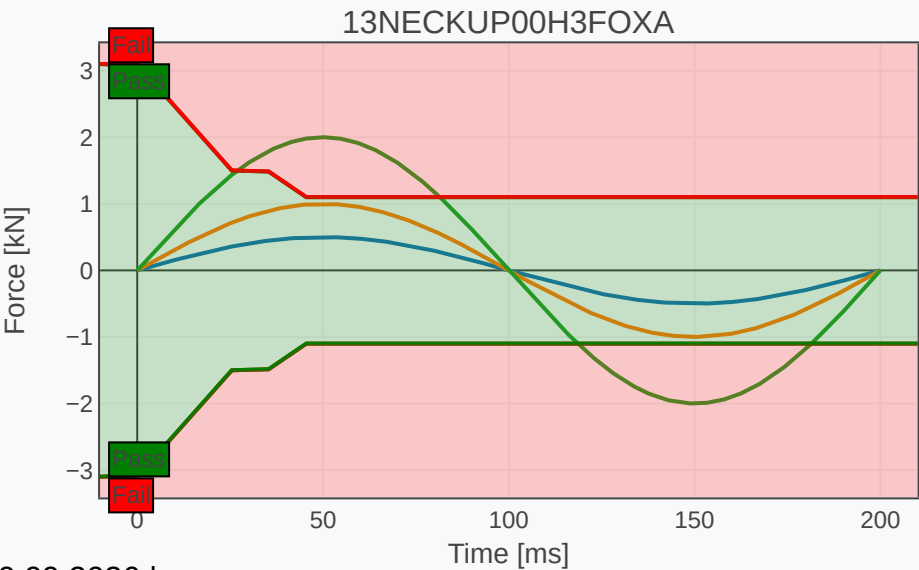
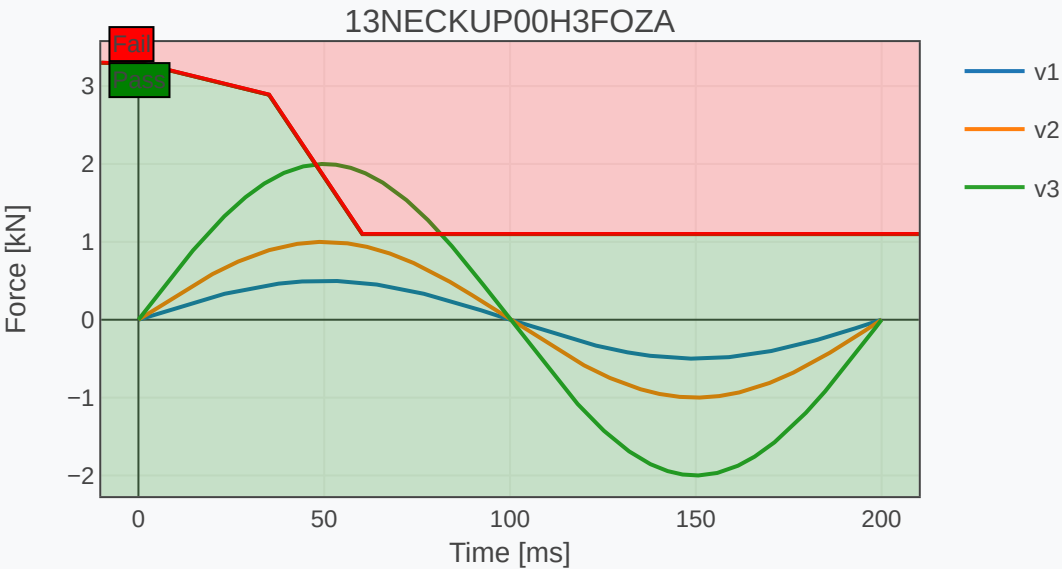
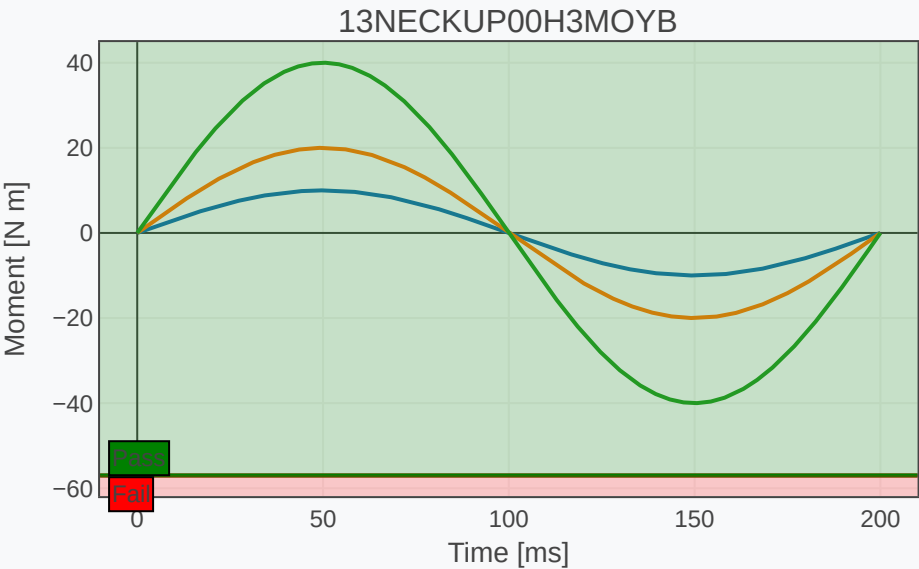
Passenger HPC36



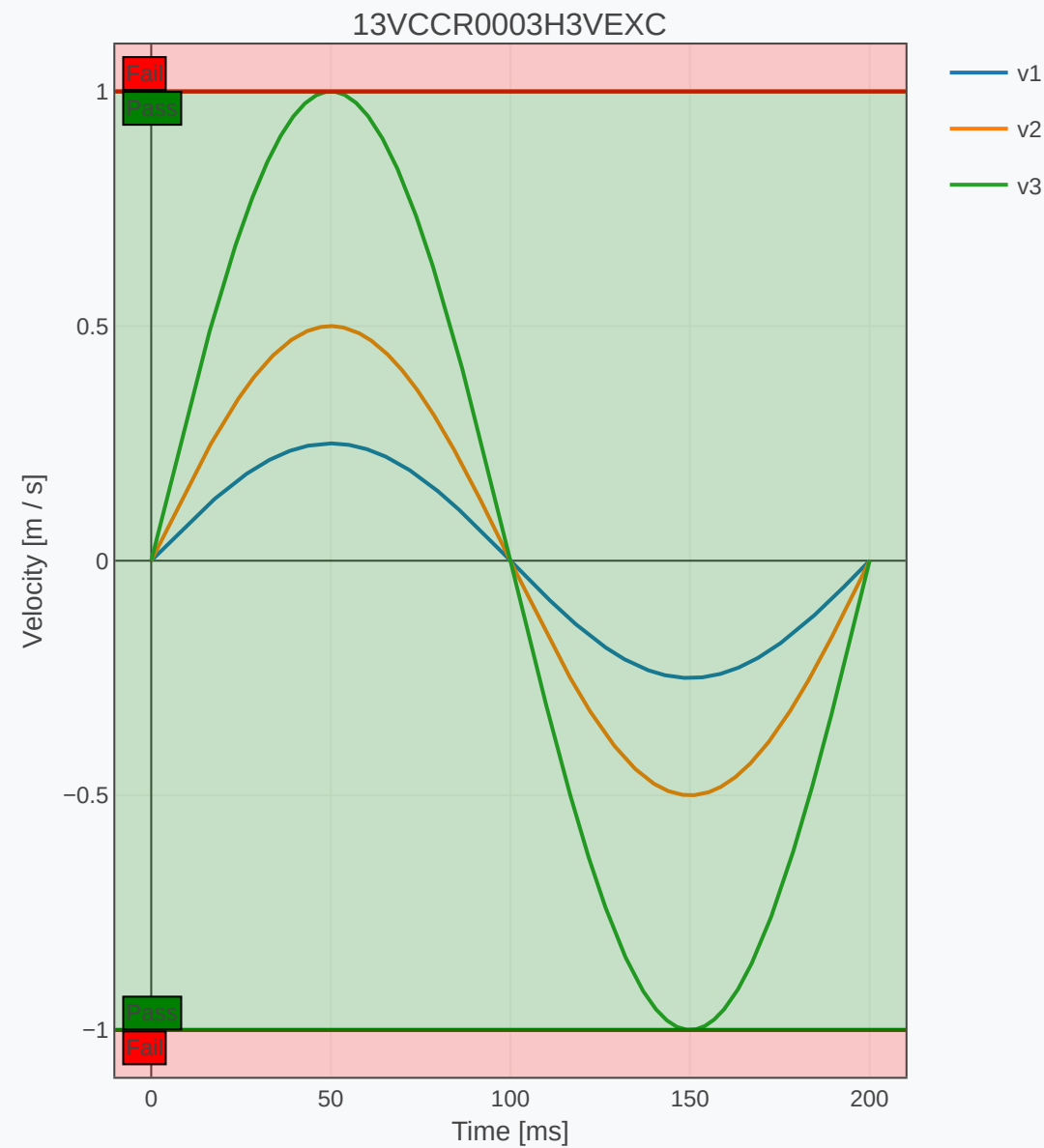
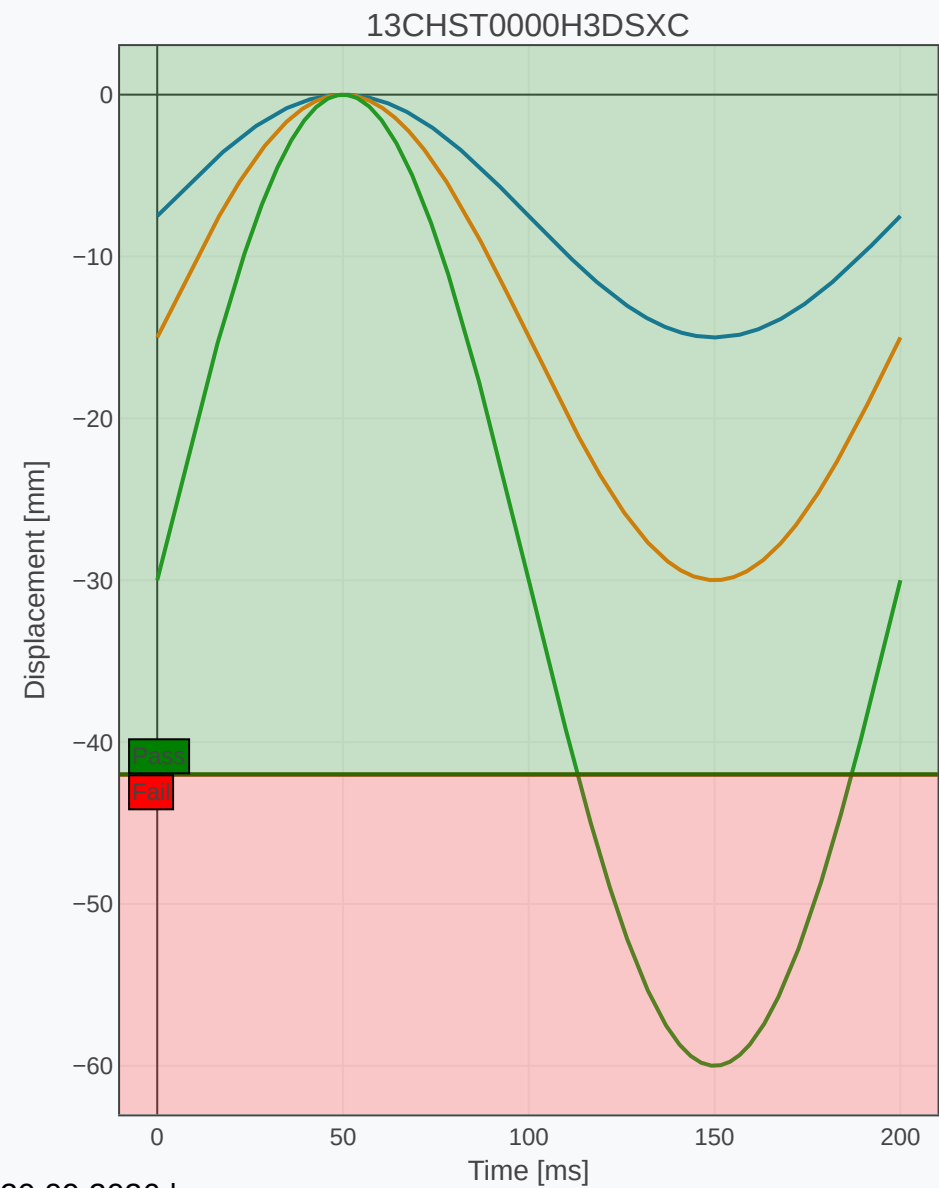
	HIC36	Start [ms]	End [ms]
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v3	2823.8	82.20	118.20

- v1
- v2
- v3
- v1 HIC36
- v2 HIC36
- v3 HIC36

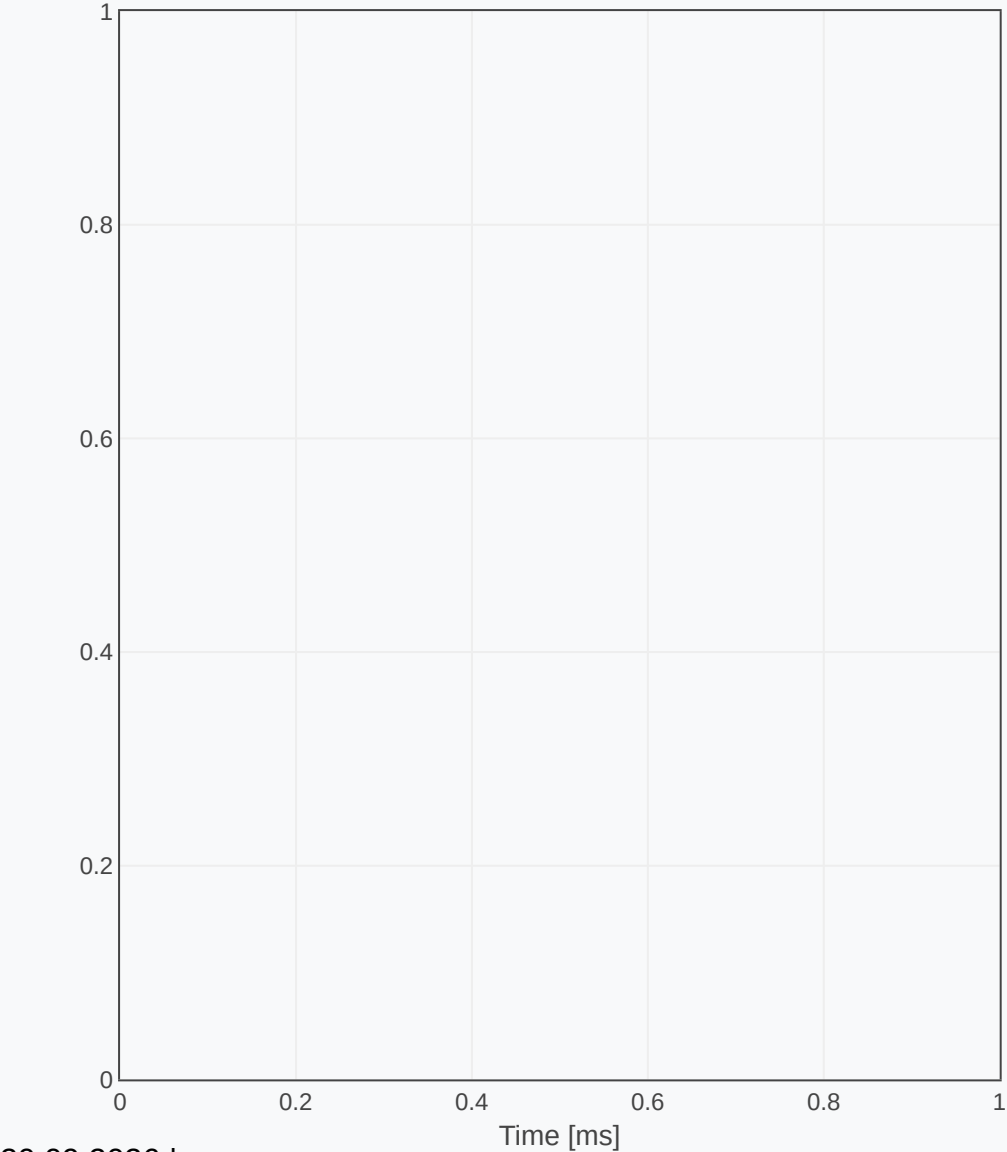
Passenger Neck Load



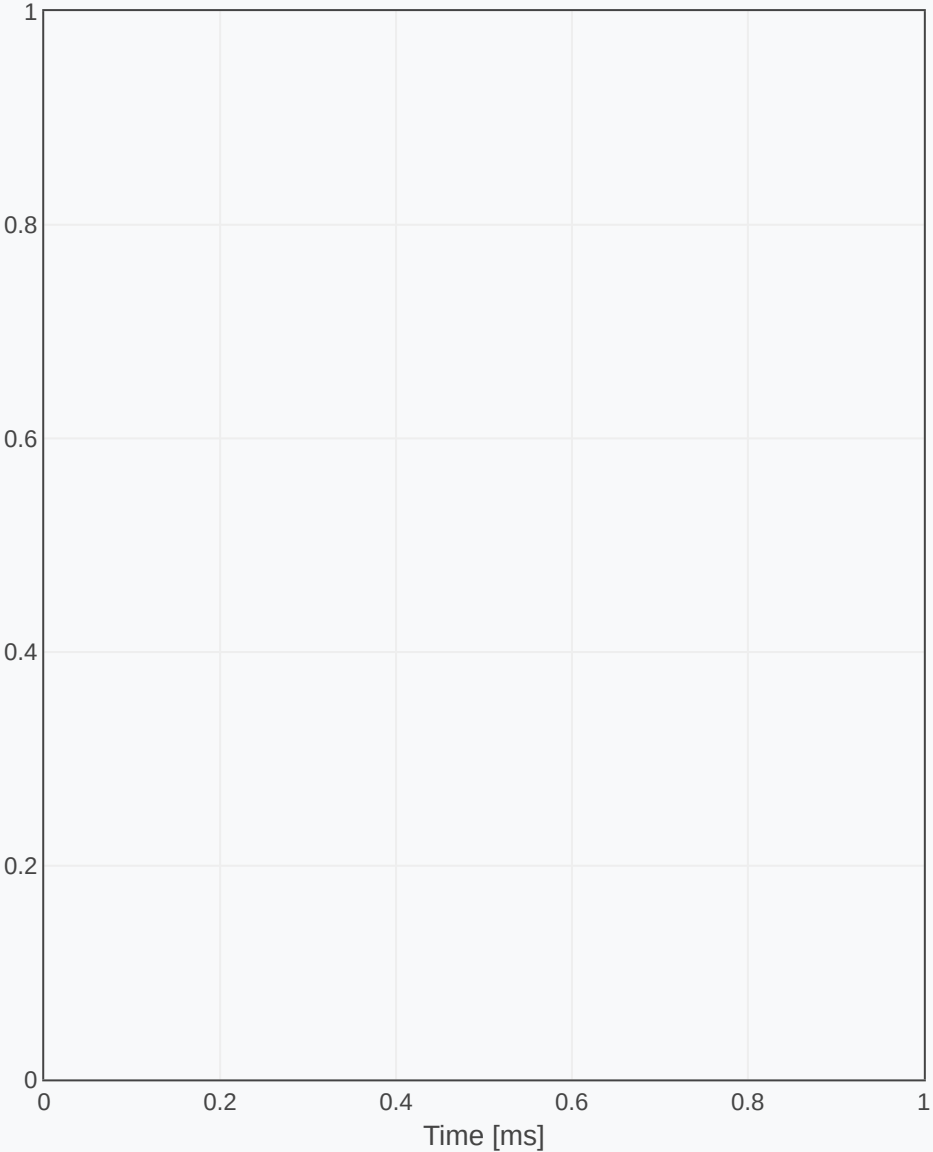
Passenger Chest Deflection



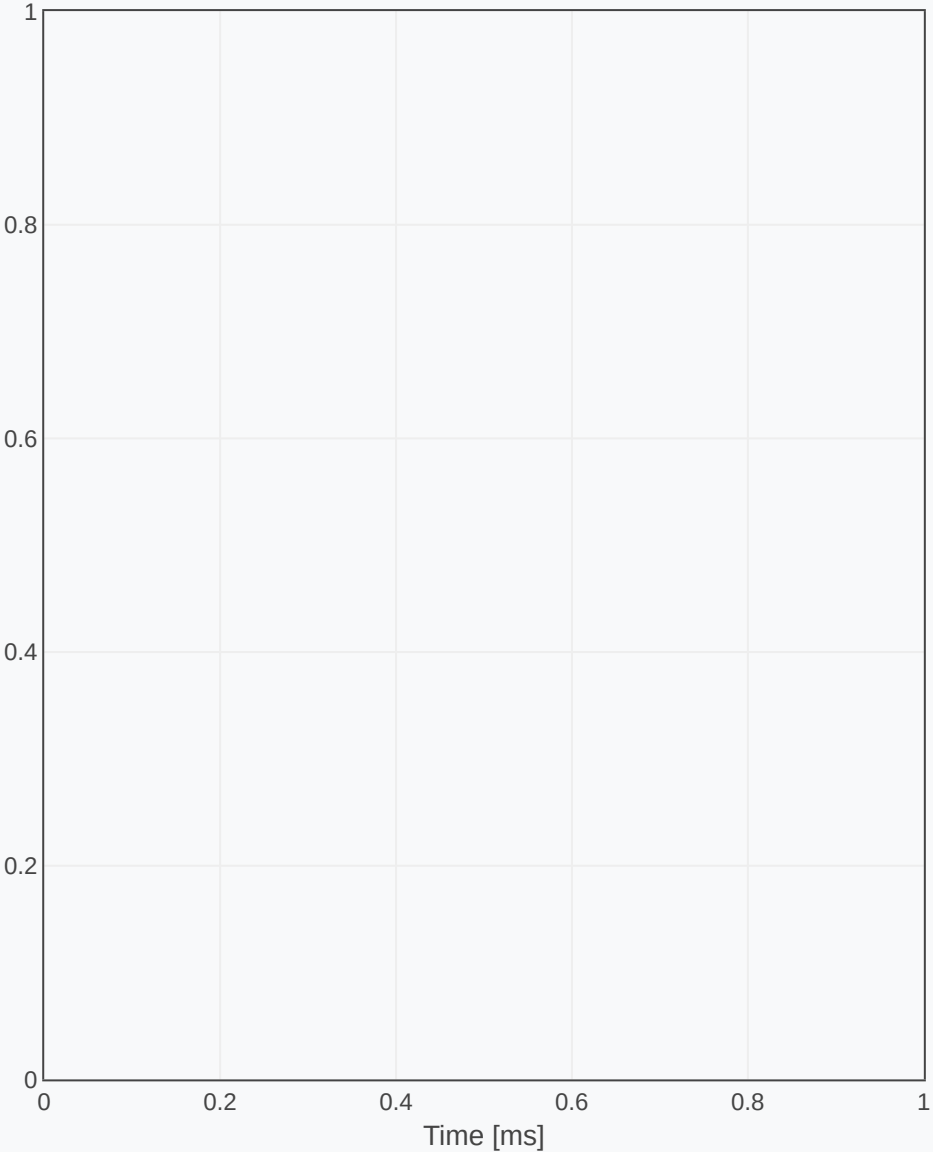
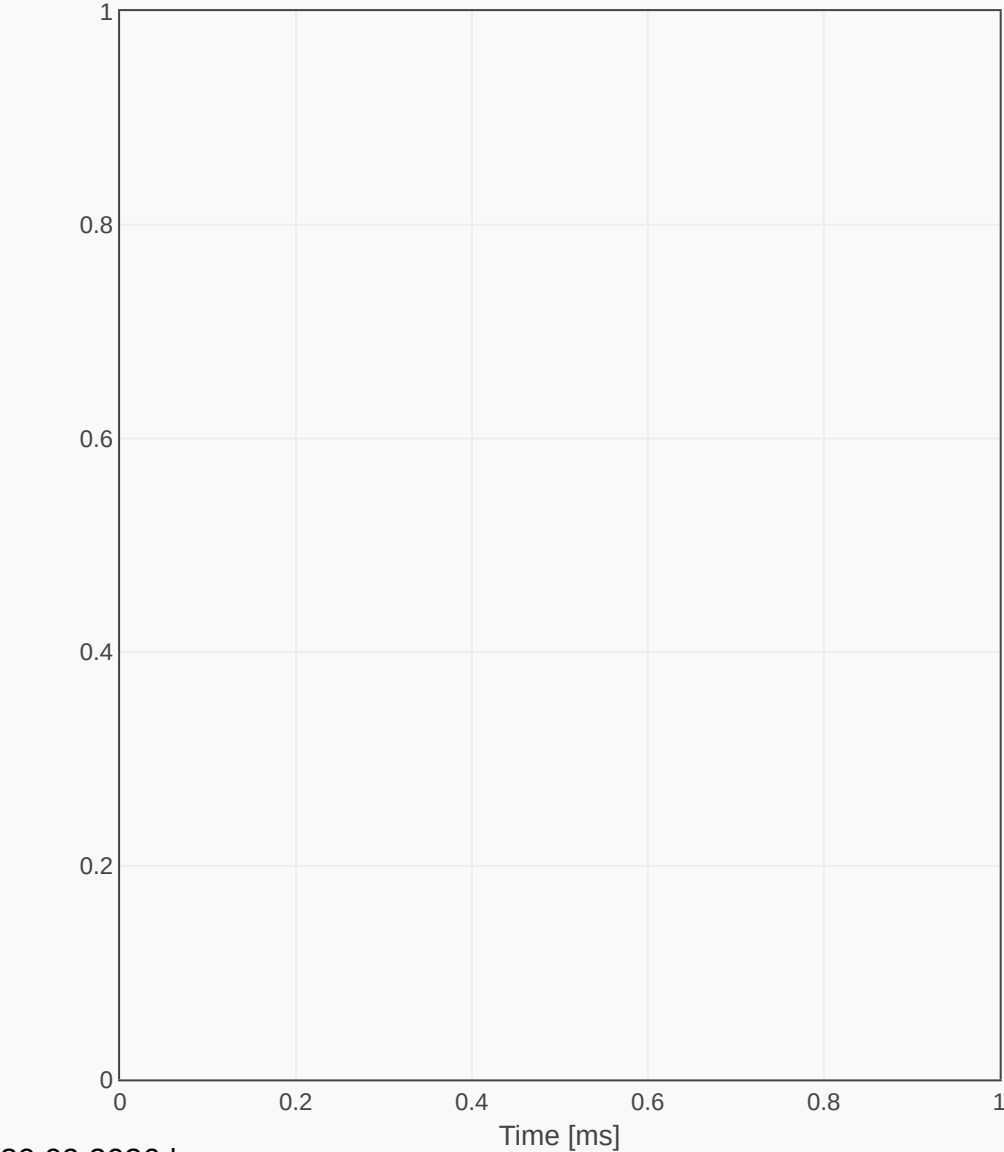
Passenger Femur Axial Force



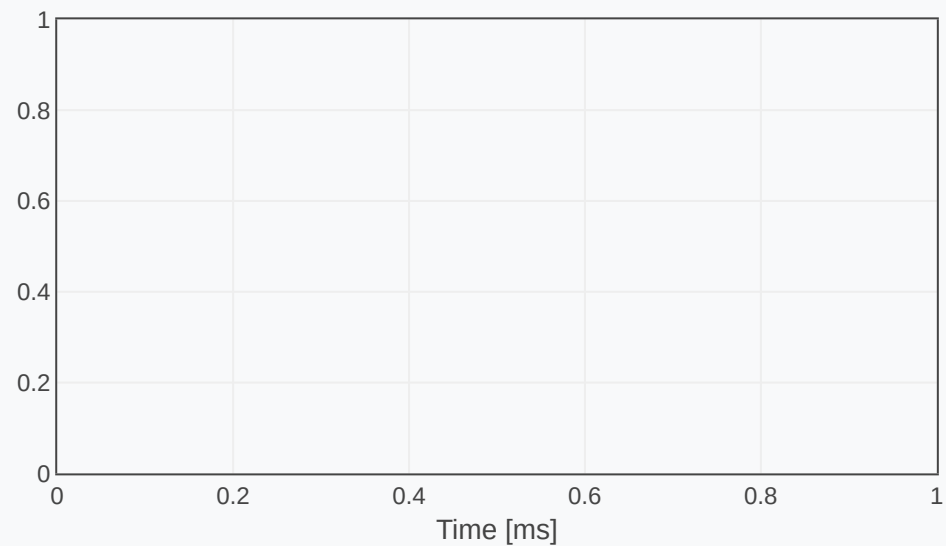
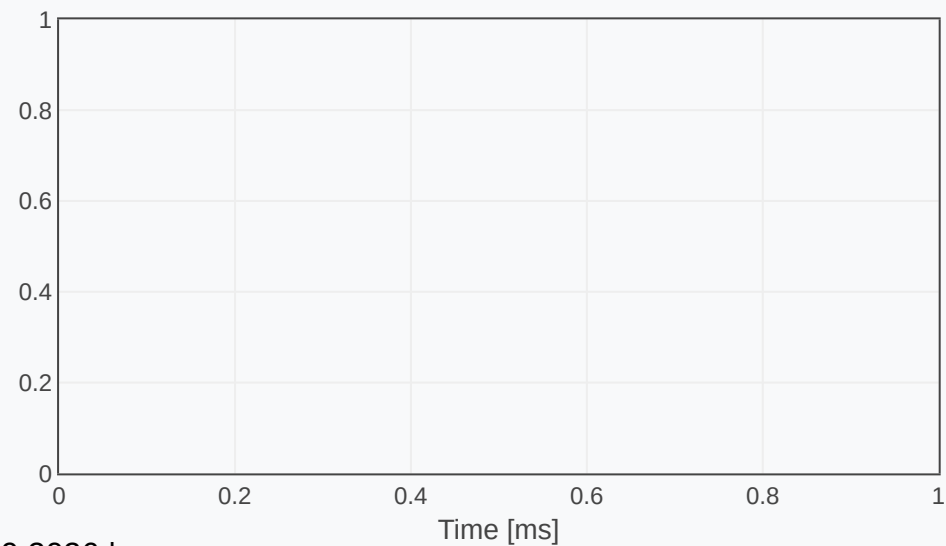
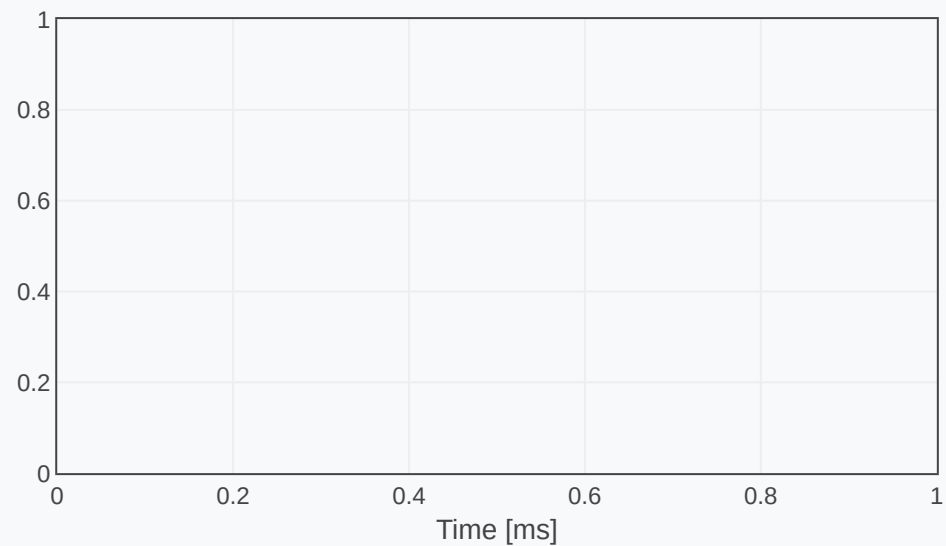
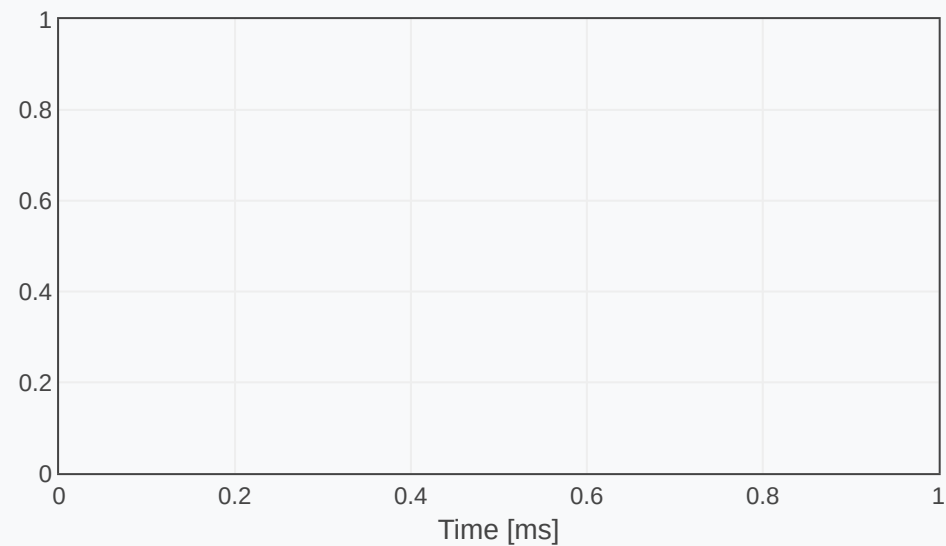
20.09.2026 | runner



Passenger Knee Slider Compression



Passenger Tibia Compression



Passenger Tibia Index

