

Hazard ID	Situational Analysis							Hazard Identification				
	Operational Mode	Operational Scenario	Environmental Details	Situation Details	Other Details (optional)	Item Usage (function)	Situation Description	Function	Deviation	Deviation Details	Hazardous Event (resulting effect)	Event Details
HA-001	Normal Driving	City Road	Normal Conditions	High Speed	Night time	Correctly Used	Normal Driving on a City Road in Normal Conditions at High Speed at Night	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback	Actor effect is too much	The LDW function applies an oscillating torque with very high torque	Collision with the other vehicle	High haptic effect can affect driver's ability to steer as intended. The driver could lose the control of the vehicle and collide with another vehicle or with road infrastructure
HA-002	Normal Driving	City Road	Normal Conditions	High Speed	Night time	Correctly Used	Normal Driving on a City Road in Normal Conditions at High Speed at Night	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	Function always activated	The LKA function add extra steering torque no time limited	Collision with the other vehicle	Constant extra steering torque can affect driver's ability to steer as intended. The driver could lose the control of the vehicle and collide with another vehicle or with road infrastructure
HA-003	Normal Driving	City Road	Normal Conditions	Low Speed	Night time	Correctly Used	Normal Driving on a City Road in Normal Conditions at High Speed at Night	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback	Actor effect is too much	The LDW function applies an oscillating torque with very high torque	Collision with the other vehicle	High haptic effect can affect driver's ability to steer as intended. The driver could lose the control of the vehicle and collide with another vehicle or with road infrastructure
HA-004	Normal Driving	City Road	Normal Conditions	Low Speed	Night time	Correctly Used	Normal Driving on a City Road in Normal Conditions at High Speed at Night	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	Function always activated	The LKA function add extra steering torque no time limited	Collision with the other vehicle	Constant extra steering torque can affect driver's ability to steer as intended. The driver could lose the control of the vehicle and collide with another vehicle or with road infrastructure
HA-005	Normal Driving	Country Road	Snowfall (degraded view)	High Speed	Night time	Correctly Used	Normal Driving on a Country Road in Degraded View Conditions at High Speed at Night	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	Function always activated	The LKA function add extra steering torque no time limited	Collision with the other vehicle	Constant extra steering torque can affect driver's ability to steer as intended. The driver could lose the control of the vehicle and collide with another vehicle or with road infrastructure
HA-006	Normal Driving	Country Road	Glaze (Slippery Road)	High Speed	Night time	Correctly Used	Normal Driving on a Country Slippery Road at High Speed at Night	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	Function always activated	The LKA function add extra steering torque no time limited	Collision with the other vehicle	Constant extra steering torque can affect driver's ability to steer as intended. The driver could lose the control of the vehicle and collide with another vehicle or with road infrastructure

Hazardous Event Description	Hazardous Event Classification						Determination of ASIL and Safety Goals	
	Exposure (of situation)	Rationale (for exposure)	Severity (of potential harm)	Rationale (for severity)	Controllability (of hazardous event)	Rationale (for controllability)	ASIL Determination	Safety Goal
The LDW function applies too high an oscillating torque to the steering wheel(above the limit)	E4 - High probability	night driving in the city is a regular activity	S3 - Life-threatening or fatal injuries	In city traffic, speed of vehicle is expected to be low	C3 - Difficult to control or uncontrollable	At high speed, most drivers won't be able to control the situation by steering the wheel or applying brakes	D	The LDW should limit the torque of the intervention as well as the time of intervention
The LKA function add extra steering torque without a time limit	E4 - High probability	night driving in the city is a regular activity	S3 - Life-threatening or fatal injuries	In city traffic, speed of vehicle is expected to be low	C3 - Difficult to control or uncontrollable	At high speed, most drivers won't be able to control the situation by steering the wheel or applying brakes	D	The LKA function should add extra steering torque for a limited amount of time and then stop providing extra torque
The LDW function applies too high an oscillating torque to the steering wheel(above the limit)	E4 - High probability	night driving in the city is a regular activity	S1 - Light and moderate injuries	In city traffic, speed of vehicle is expected to be low	C2 - Normally controllable	At city speed, most drivers will be able to control the situation by applying brakes or steering the wheel	A	The LDW should limit the torque of the intervention as well as the time of intervention
The LKA function add extra steering torque without a time limit	E4 - High probability	night driving in the city is a regular activity	S1 - Light and moderate injuries	In city traffic, speed of vehicle is expected to be low	C2 - Normally controllable	At city speed, most drivers will be able to control the situation by applying brakes or steering the wheel	A	The LKA should limit the torque of the intervention as well as the time of intervention
The LKA function add extra steering torque without a time limit	E1 - Very Low probability	night driving on the country road during a storm is not a regular activity	S3 - Life-threatening or fatal injuries	In country road, during snowfall speed of vehicle is expected to be low	C3 - Difficult to control or uncontrollable	At high speed, most drivers won't be able to control the situation by steering the wheel or applying brakes	A	The LKA should limit the torque of the intervention as well as the time of intervention
The LKA function add extra steering torque without a time limit	E4 - High probability	country driving is part of regular driving	S3 - Severe and life-threatening injuries	In country road speed of vehicle is expected to be low with slippery conditions	C3 - Difficult to control or uncontrollable	At high speed, most drivers won't be able to control the situation by steering the wheel or applying brakes	D	The LKA should limit the torque of the intervention as well as the time of intervention