

Overview

TestSeries information	
Name:	challenge_test_suite.ts
Last Change:	2021-08-22 14:13:04 uic00760
Description:	
TestSeries started:	2021-09-05 13:07:23
TestSeries end:	2021-09-05 13:10:06
Duration:	0h 2min 43s

Application information	
Project Directory:	C:/Users/ampul/Desktop/SocioFormador/CarMaker
Name & Path:	Car_Generic <insert.your.version.no> (build 49) (C:\Users\ampul\Desktop\SocioFormador\CarMaker\src\CarMaker.win64.exe)
Version:	10.1 (2021-07-20 16:42:50)
Host:	msi (OS: win32)
Program started:	2021-09-05 13:07:20 by user Beto
Session log file:	SimOutput/MSI/Log/MSI_20210905_130720.log

Report information	
GUI Version:	CarMaker 10.1
Author:	
Date of Creation:	2021-09-05 13:12:02

Remarks

Result Summary

Overall Results

Number of Tests:	24	100.0 %	
Tests passed:	24	100.0 %	✓
Tests skipped:	0	0.0 %	⏸
Tests with warning:	0	0.0 %	⚠
Tests failed:	0	0.0 %	✗
Tests with error:	0	0.0 %	⚡
Tests not executed:	0	0.0 %	○

Detailed Results


ID	Test	Result
1	GROUP: Line	
1.1	Maneuvers/line	
1.1.1	Variation 0	✓
1.1.2	Variation 1	✓
1.1.3	Variation 2	✓
1.1.4	Variation 3	✓
1.1.5	Variation 4	✓
1.1.6	Variation 5	✓
1.1.7	Variation 6	✓
1.1.8	Variation 7	✓
2	GROUP: Circle	
2.1	Maneuvers/circle	
2.1.1	Variation 0	✓
2.1.2	Variation 1	✓
2.1.3	Variation 2	✓
2.1.4	Variation 3	✓
2.1.5	Variation 4	✓
2.1.6	Variation 5	✓
2.1.7	Variation 6	✓
2.1.8	Variation 7	✓
3	GROUP: Return to line	
3.1	Maneuvers/return_to_line	
3.1.1	Variation 0	✓
3.1.2	Variation 1	✓
3.1.3	Variation 2	✓
3.1.4	Variation 3	✓
3.1.5	Variation 4	✓
3.1.6	Variation 5	✓
3.1.7	Variation 6	✓
3.1.8	Variation 7	✓

Detailed Results

1.1

Test # 1.1
Line
└─ Maneuvers/line

1.1.1

Test # 1.1.1	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 0	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	1
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line
NValue	speed	5
NValue	stopNGo	0

Resultfile

[Variation 0.erg](#)

Diagrams

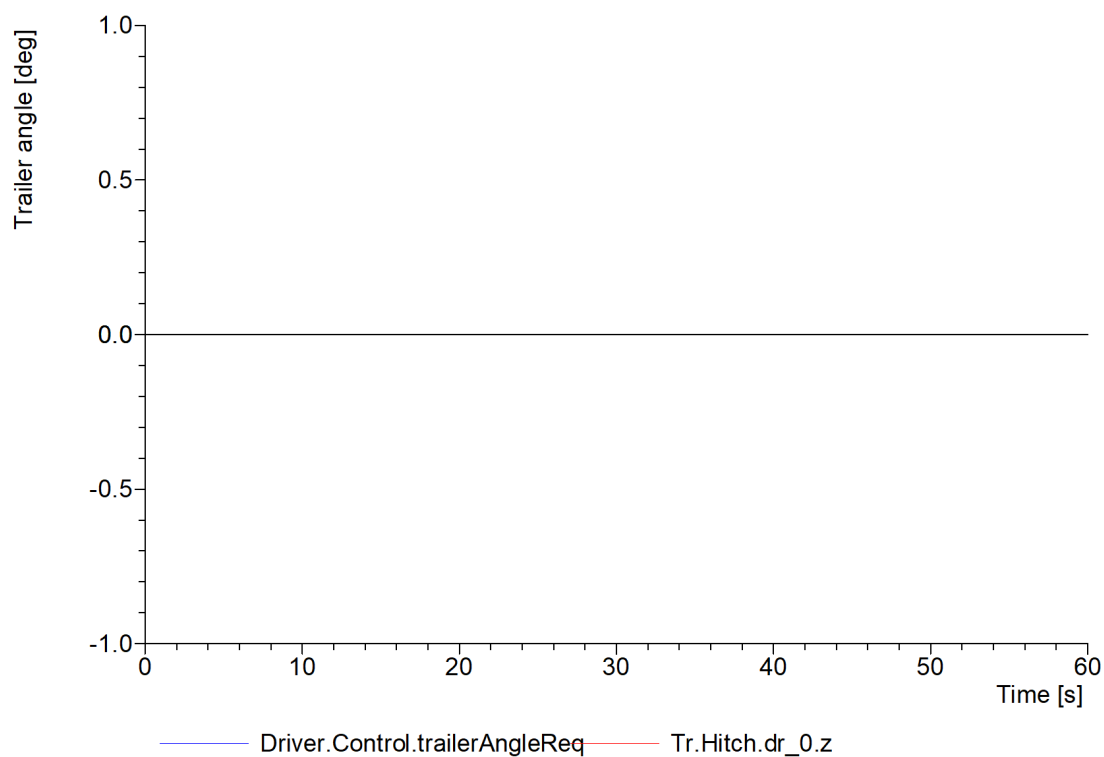


Fig. 1: Trailer angle control

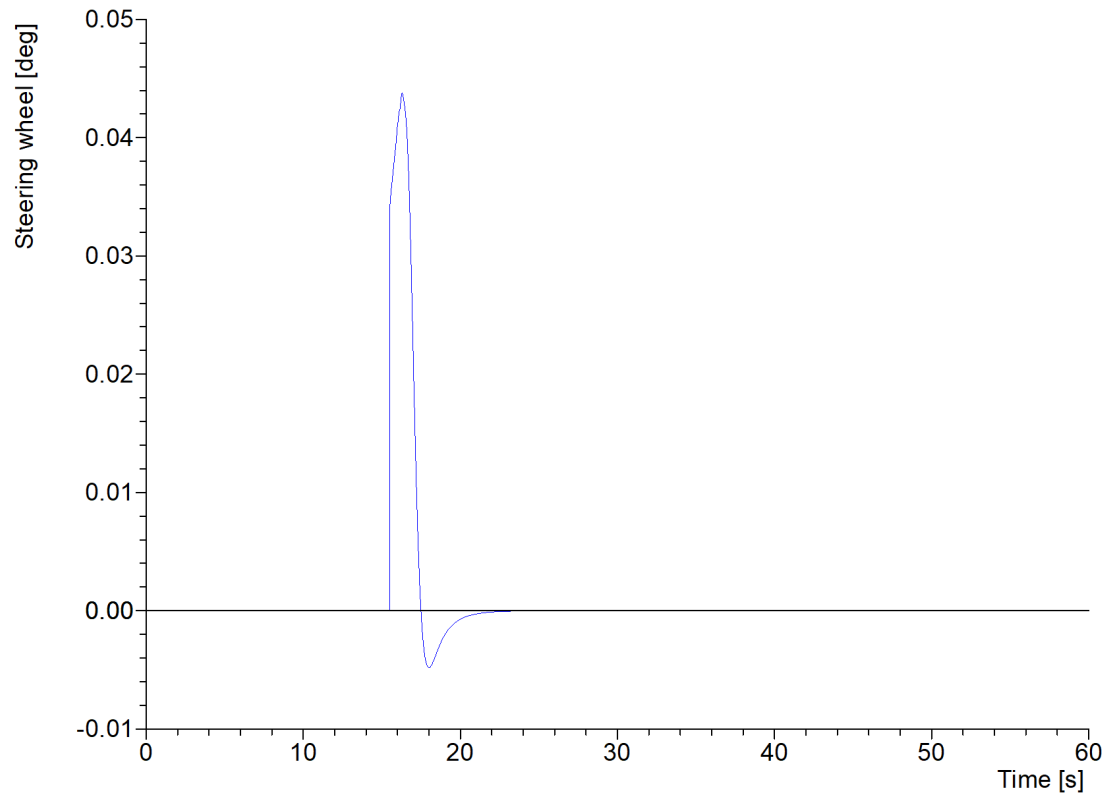



Fig. 2: Steering wheel

1.1.2

Test # 1.1.2	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 1	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	1
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line
NValue	speed	8
NValue	stopNGo	0

Resultfile

[Variation 1.erg](#)

Diagrams

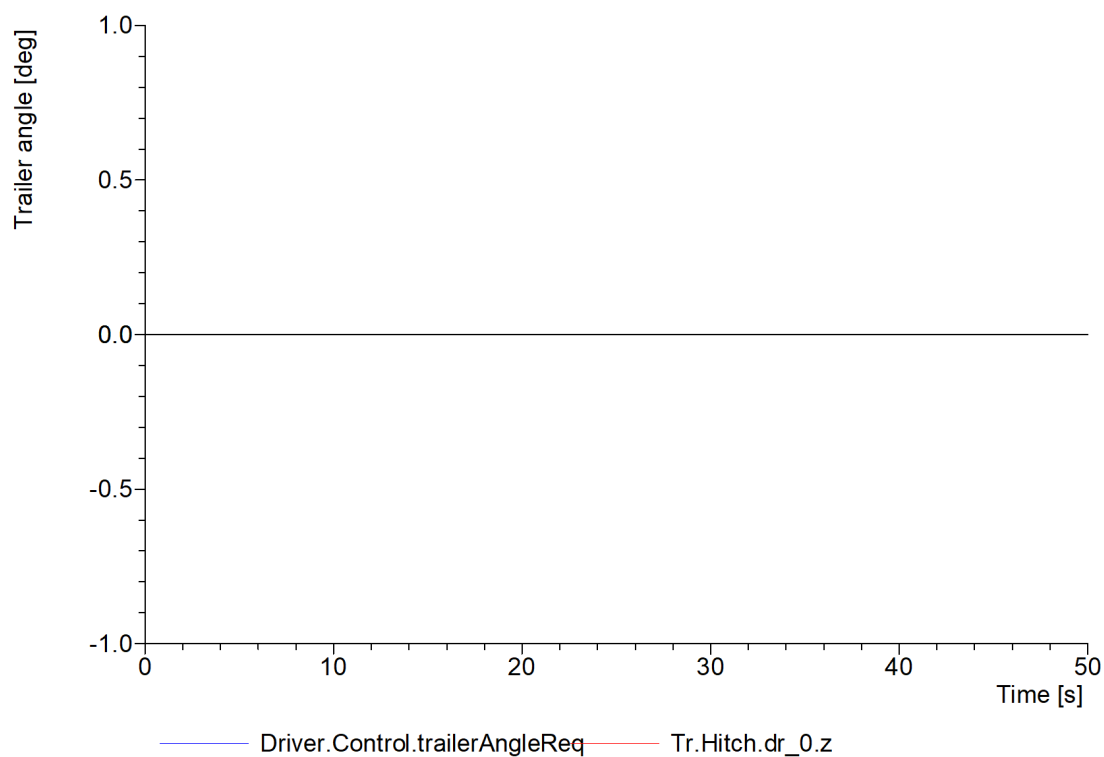


Fig. 3: Trailer angle control

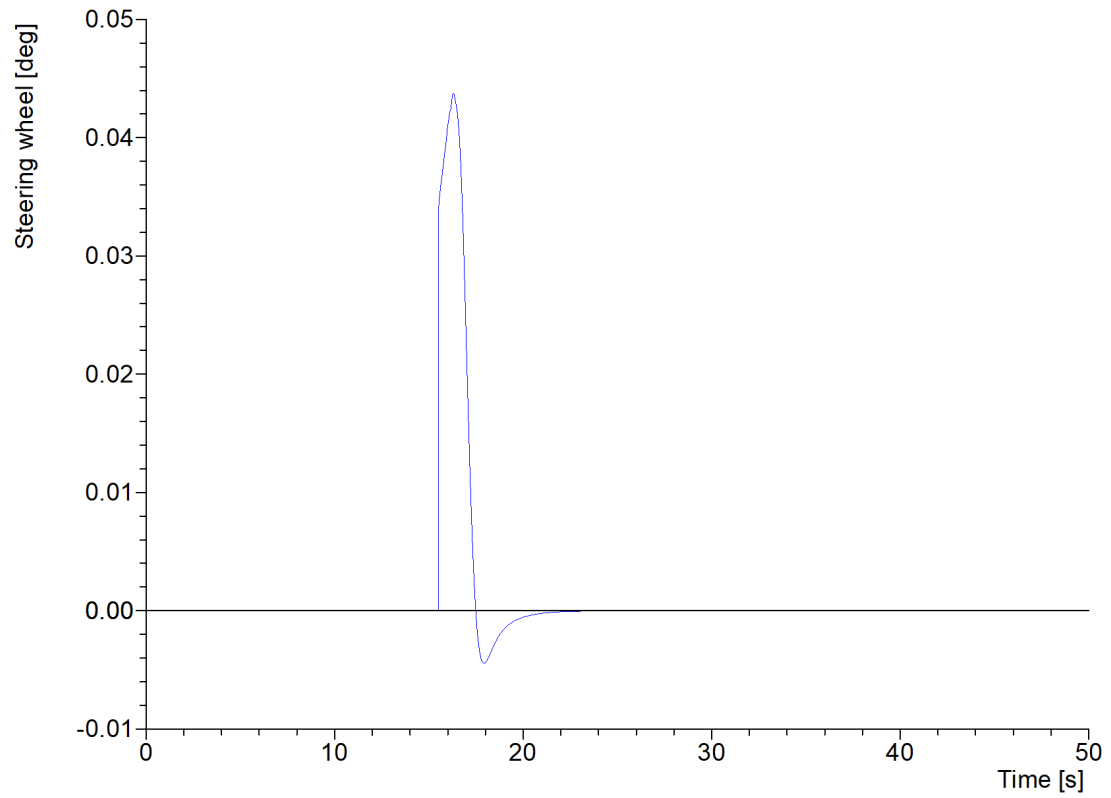



Fig. 4: Steering wheel

1.1.3

Test # 1.1.3	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 2	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	2
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line
NValue	speed	5
NValue	stopNGo	0

Resultfile

[Variation 2.erg](#)

Diagrams

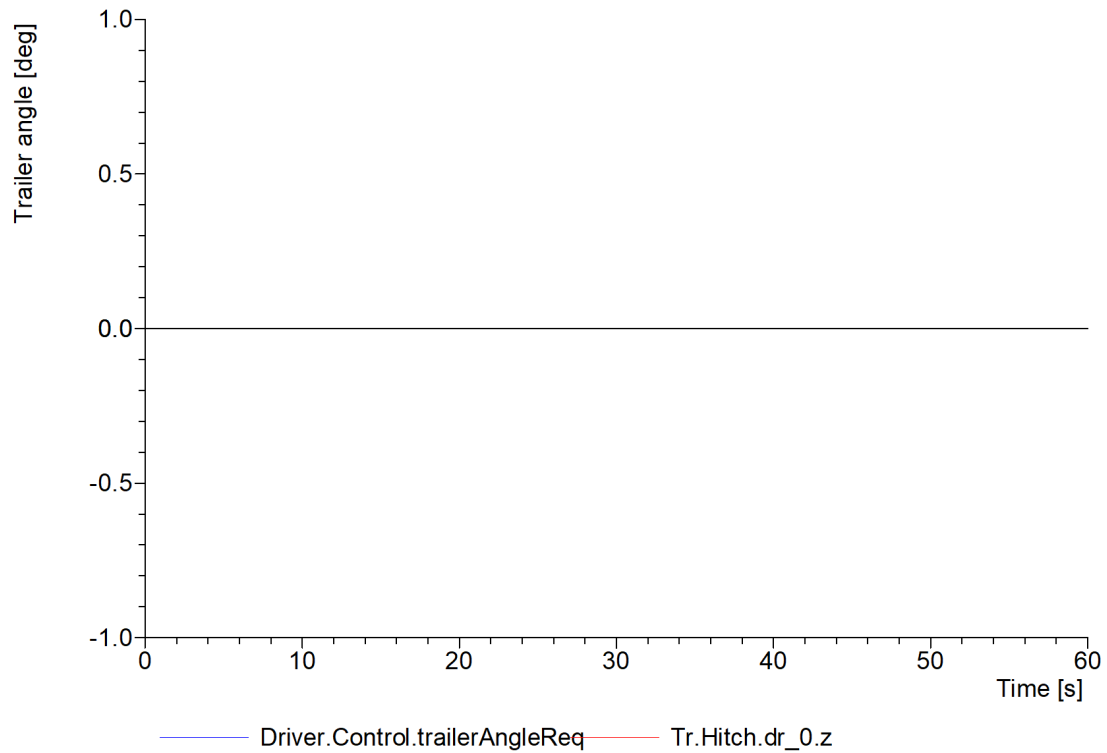


Fig. 5: Trailer angle control

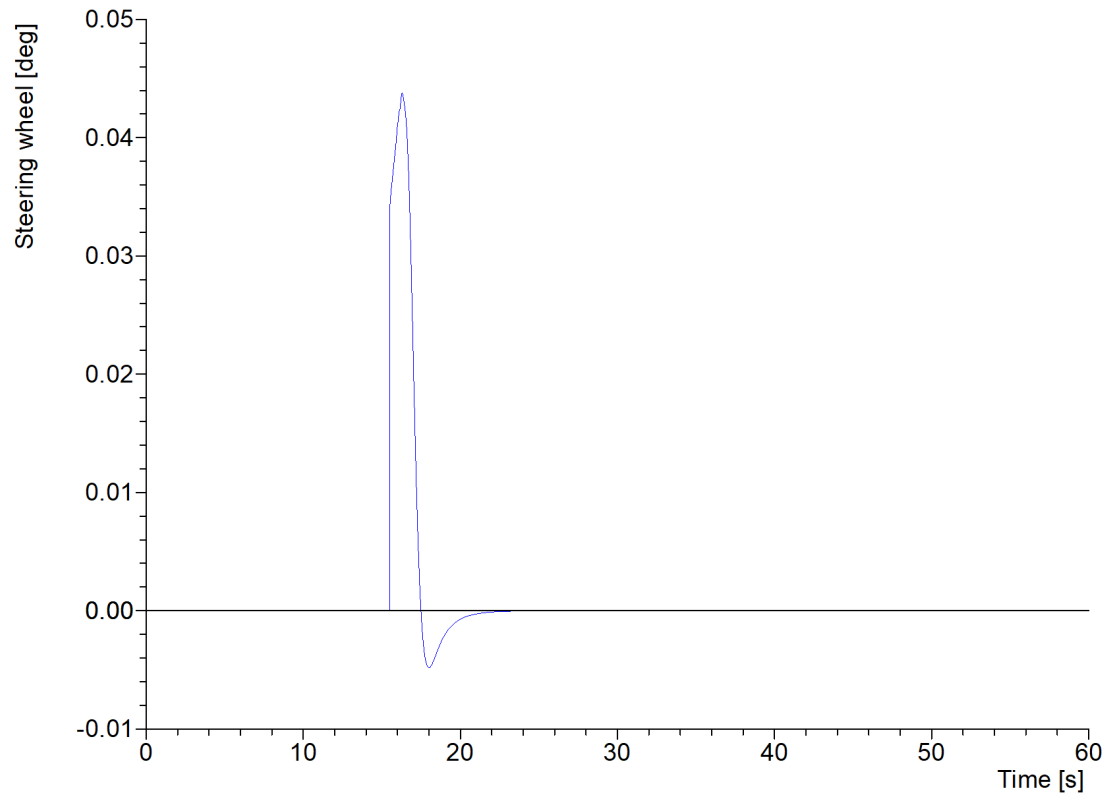



Fig. 6: Steering wheel

1.1.4

Test # 1.1.4	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 3	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	2
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line
NValue	speed	8
NValue	stopNGo	0

Resultfile

[Variation 3.erg](#)

Diagrams

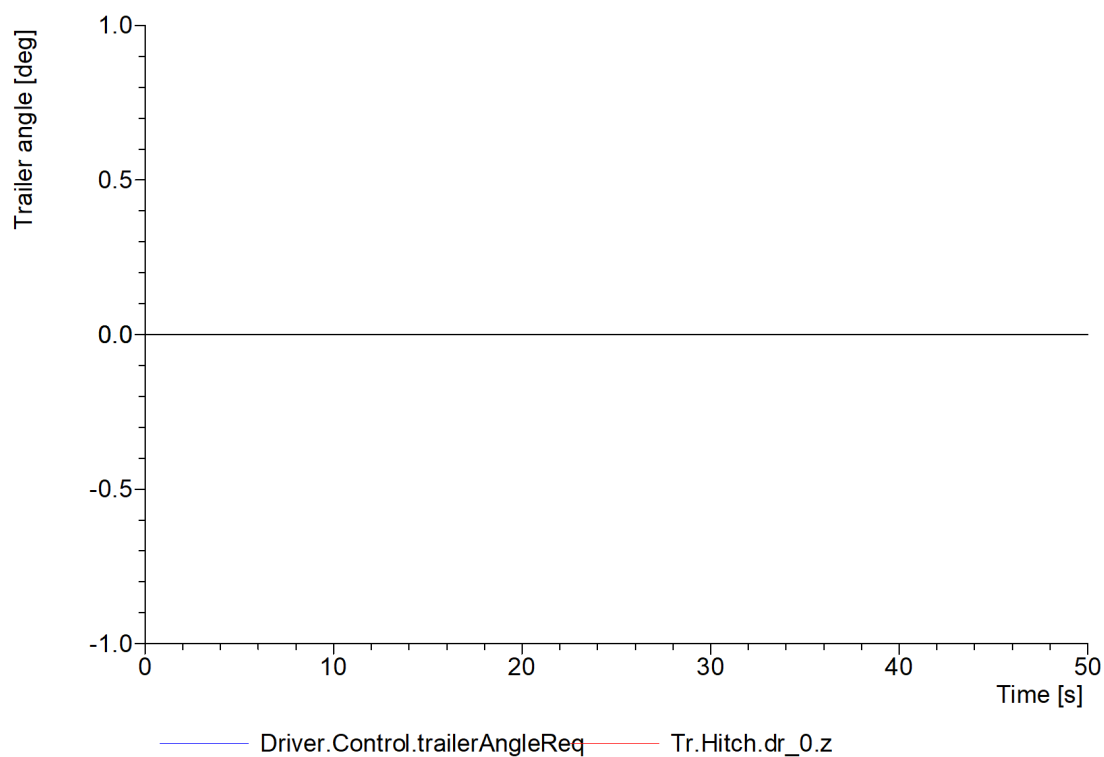


Fig. 7: Trailer angle control

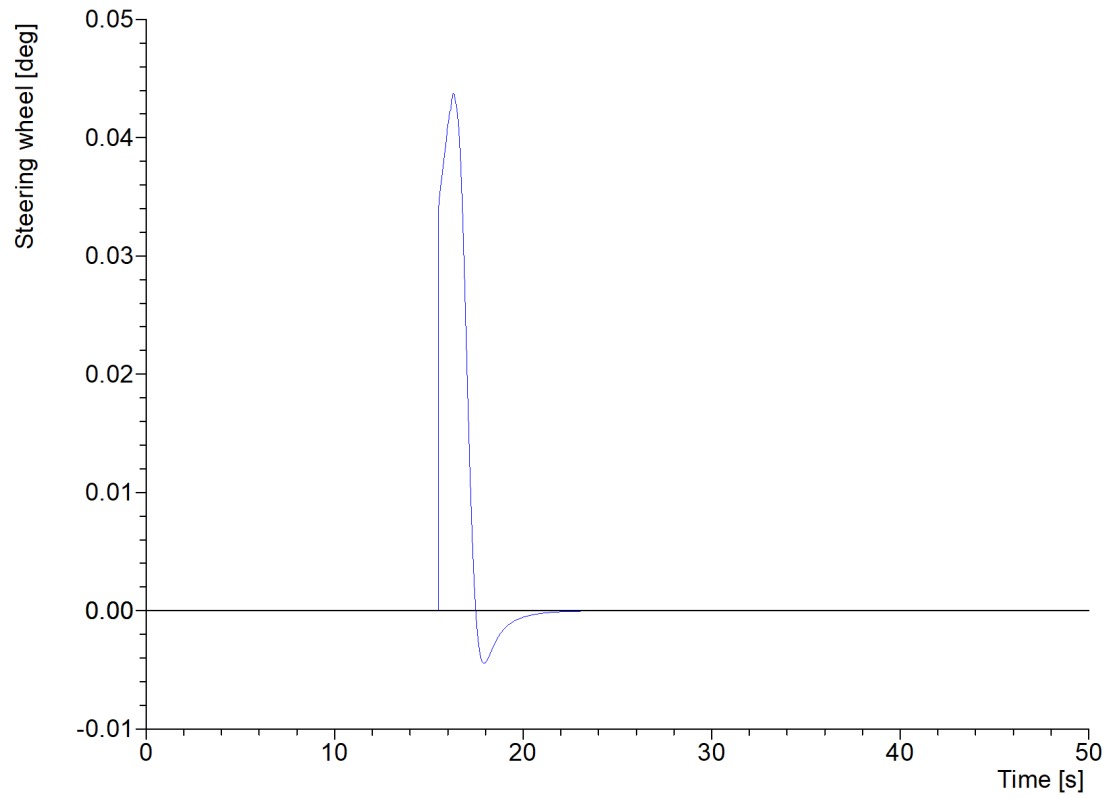



Fig. 8: Steering wheel

1.1.5

Test # 1.1.5	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 4	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	1
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line

Type	Name	Value
NValue	speed	5
NValue	stopNGo	1

Resultfile
Variation 4.erg

Diagrams

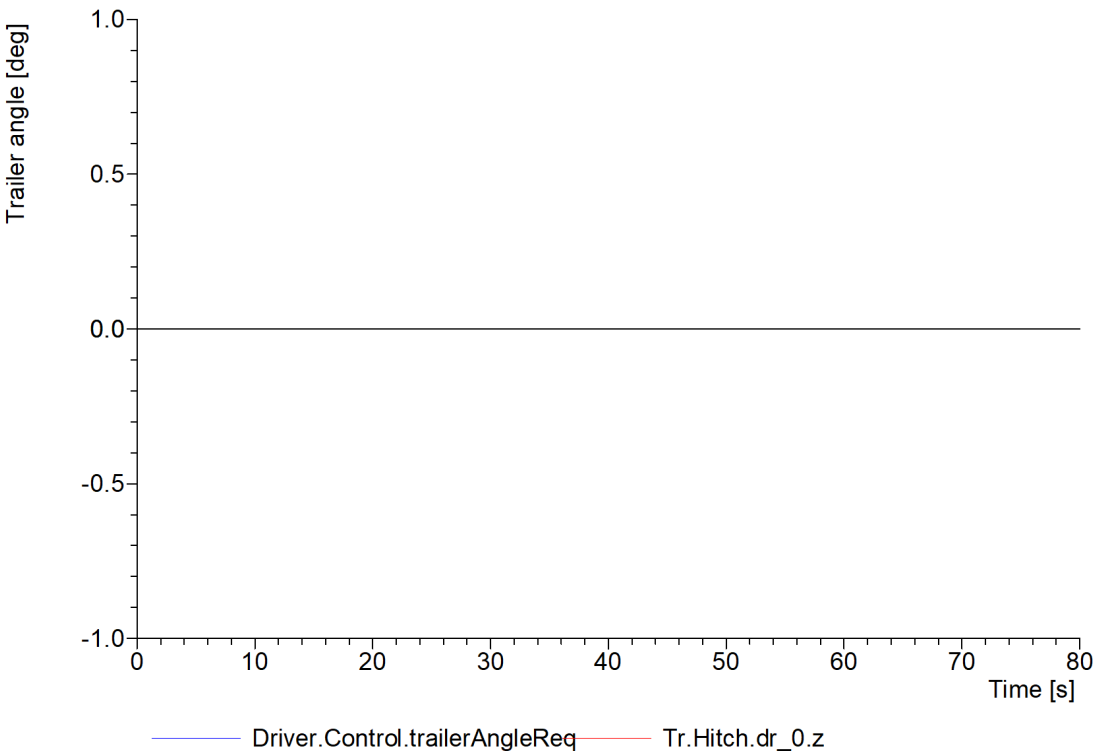


Fig. 9: Trailer angle control

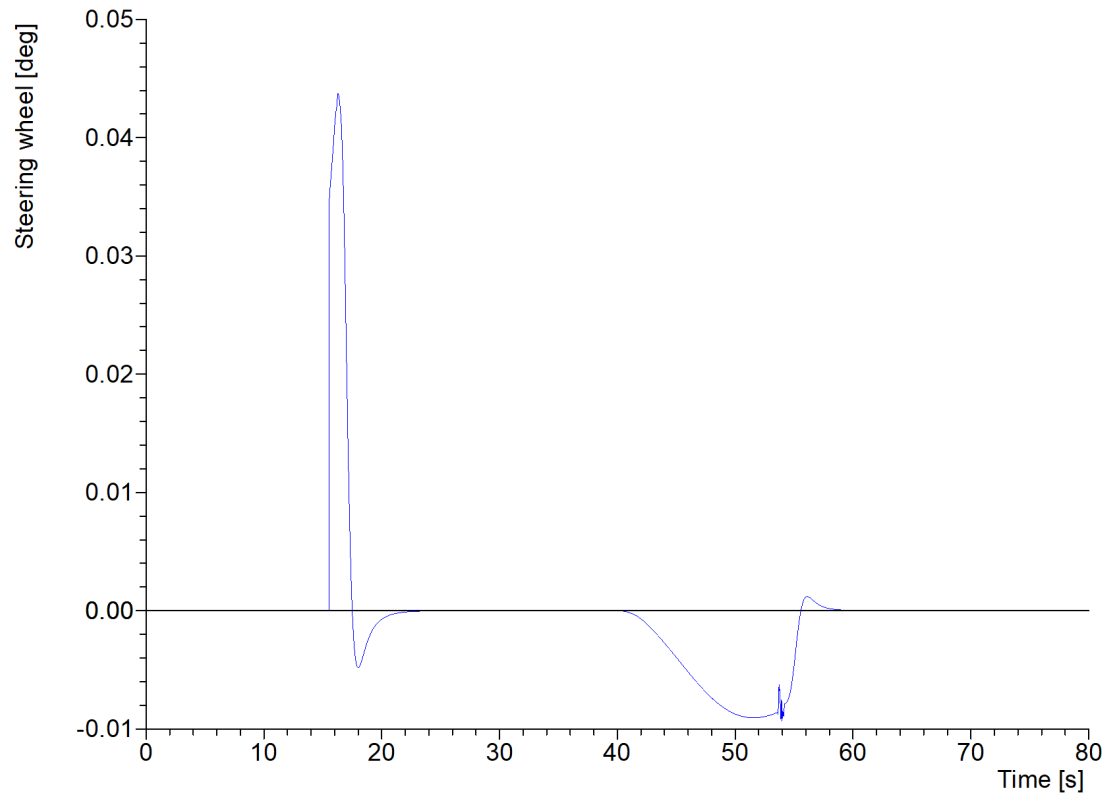



Fig. 10: Steering wheel

1.1.6

Test # 1.1.6	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 5	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	1
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line

Type	Name	Value
NValue	speed	8
NValue	stopNGo	1

Resultfile
Variation 5.erg

Diagrams

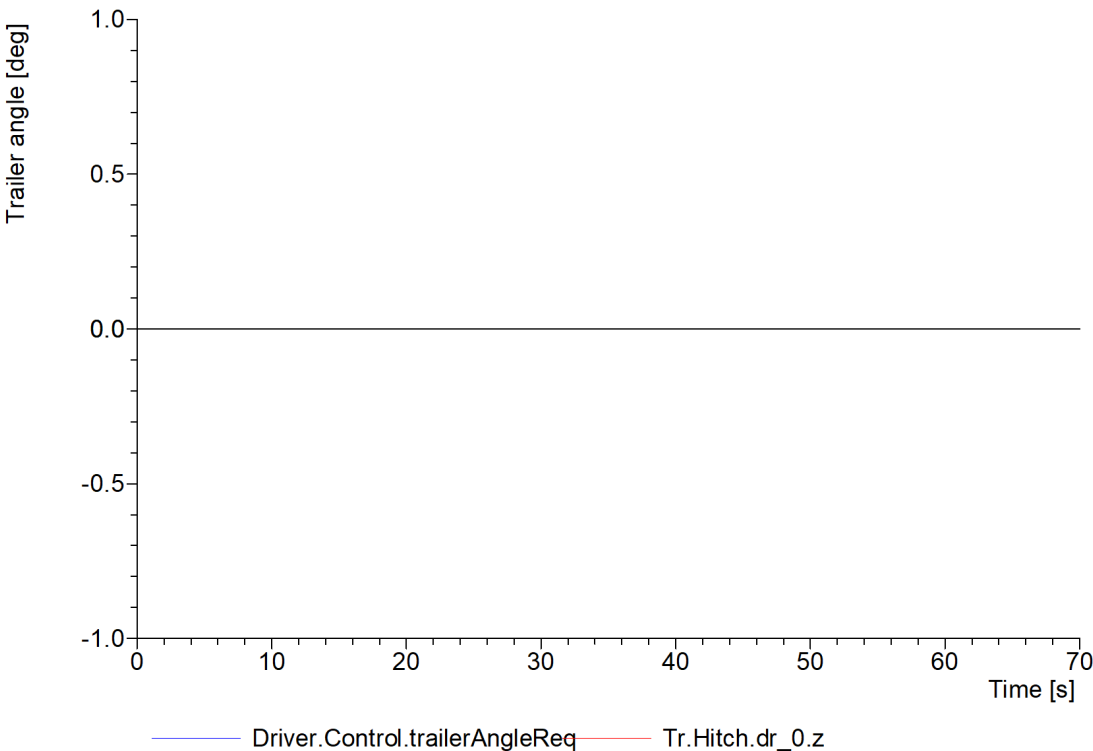


Fig. 11: Trailer angle control

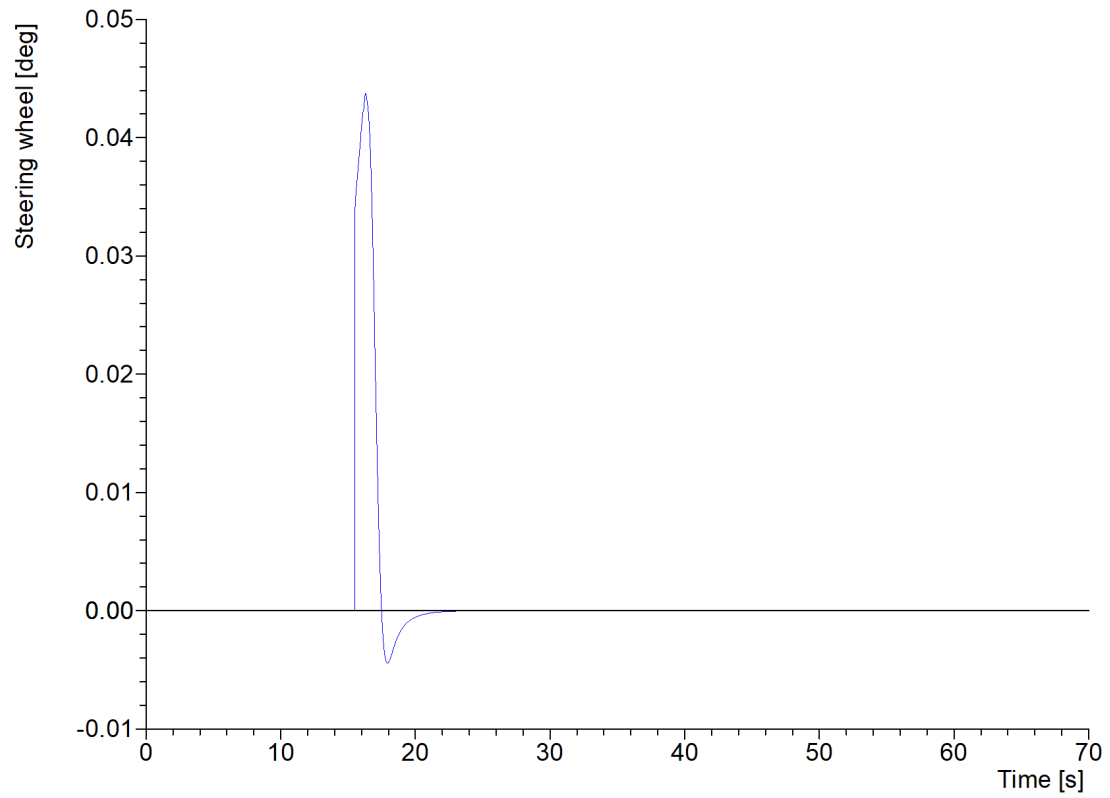



Fig. 12: Steering wheel

1.1.7

Test # 1.1.7	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 6	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	2
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line

Type	Name	Value
NValue	speed	5
NValue	stopNGo	1

Resultfile
Variation 6.erg

Diagrams

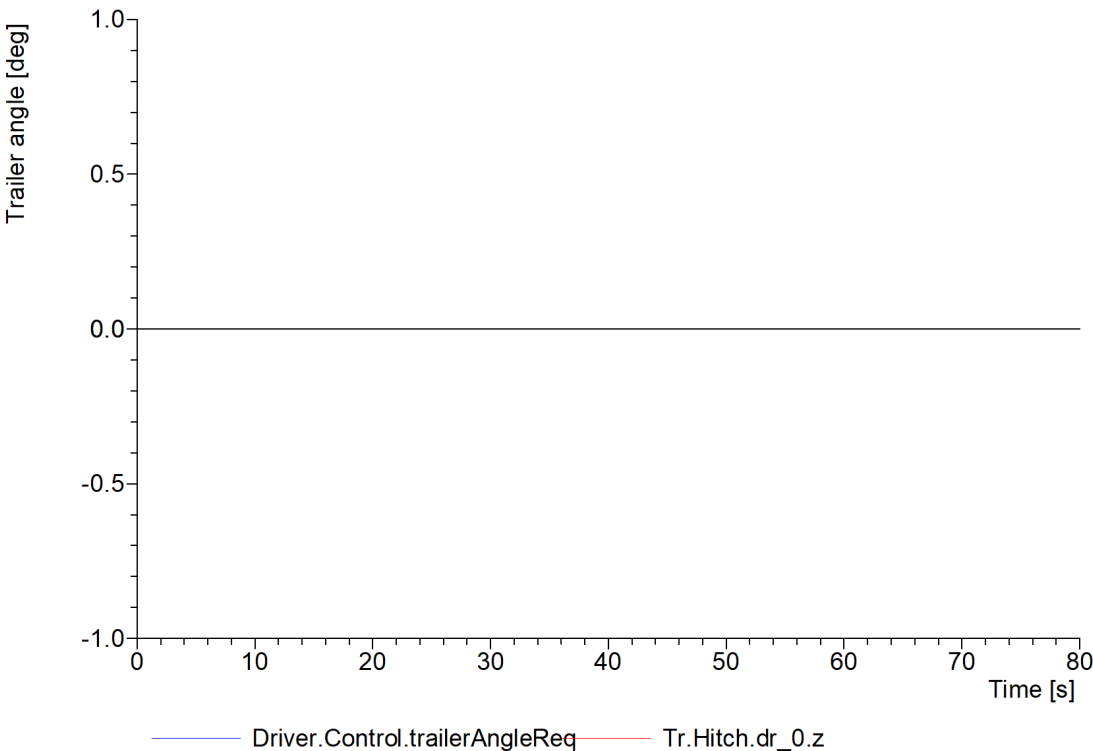


Fig. 13: Trailer angle control

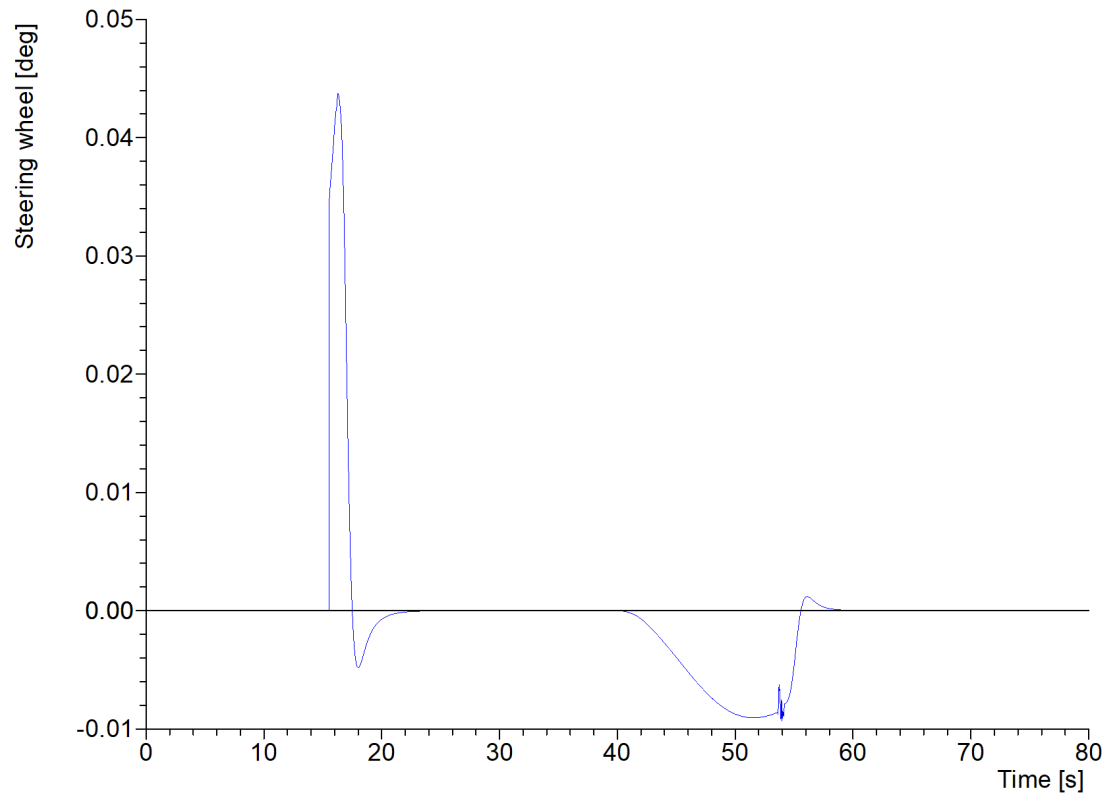



Fig. 14: Steering wheel

1.1.8

Test # 1.1.8	Result
Line	 Passed
└ Maneuvers/line	
└ Variation 7	

General Information

TestRun	
Name:	Maneuvers/line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/line/%v
NValue	accel	2
NValue	angleReq	0
TS	folderName	SimOutput/challenge/line

Type	Name	Value
NValue	speed	8
NValue	stopNGo	1

Resultfile
Variation 7.erg

Diagrams

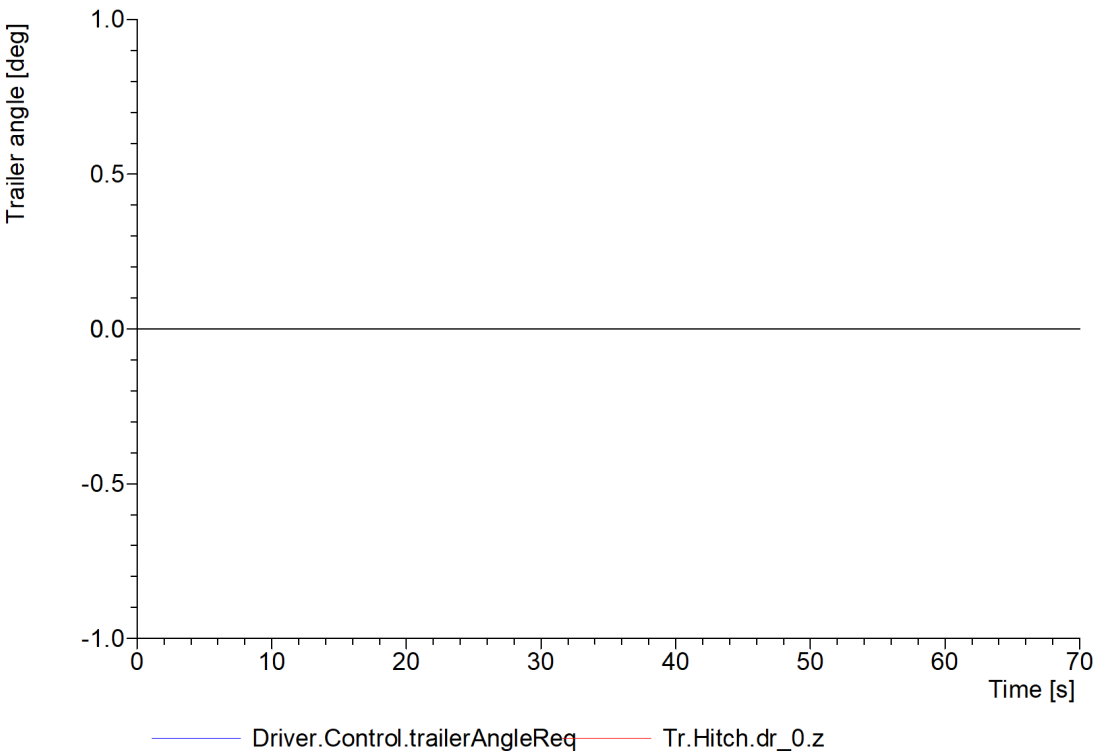


Fig. 15: Trailer angle control

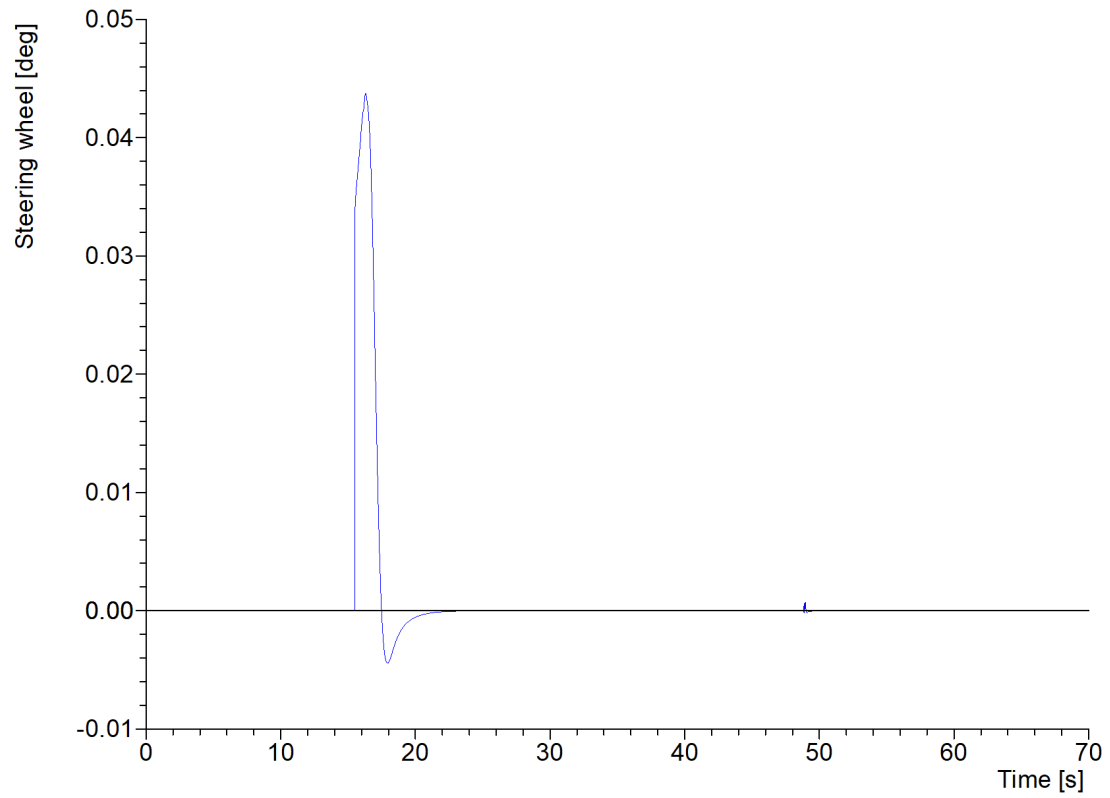



Fig. 16: Steering wheel

2.1

Test # 2.1
Circle └ Maneuvers/circle

2.1.1

Test # 2.1.1	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 0	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	5
NValue	stopNGo	0

Resultfile

Variation 0.erg

Diagrams

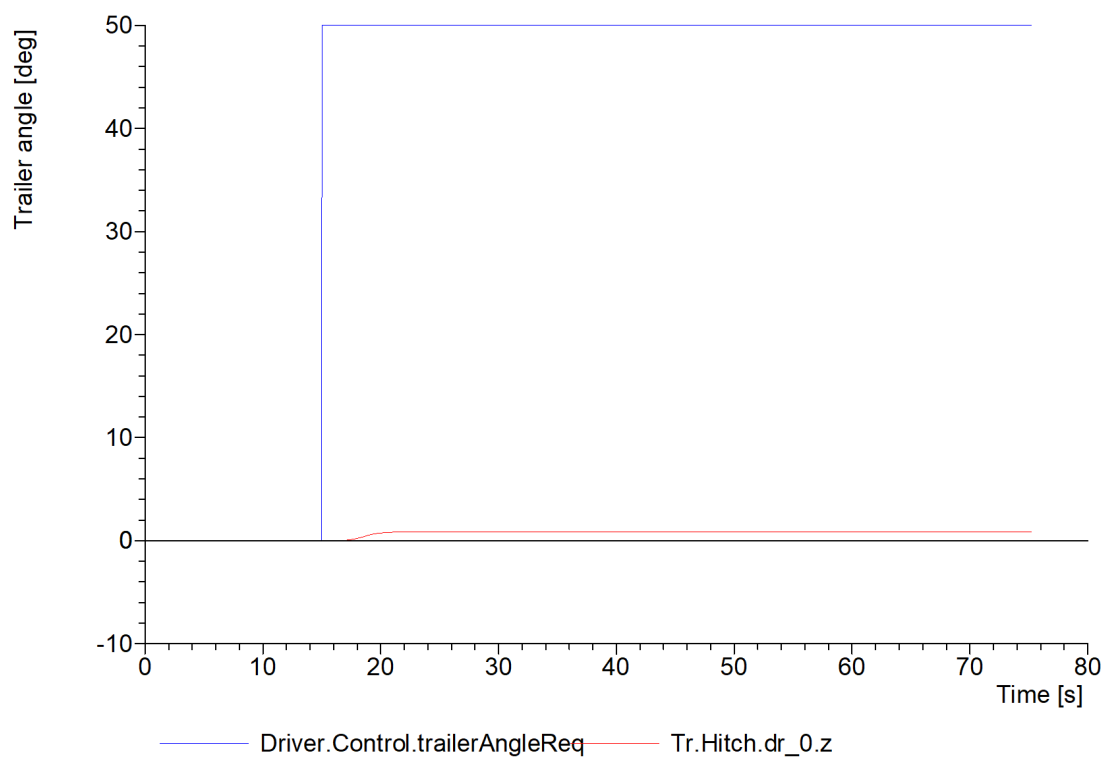


Fig. 17: Trailer angle control

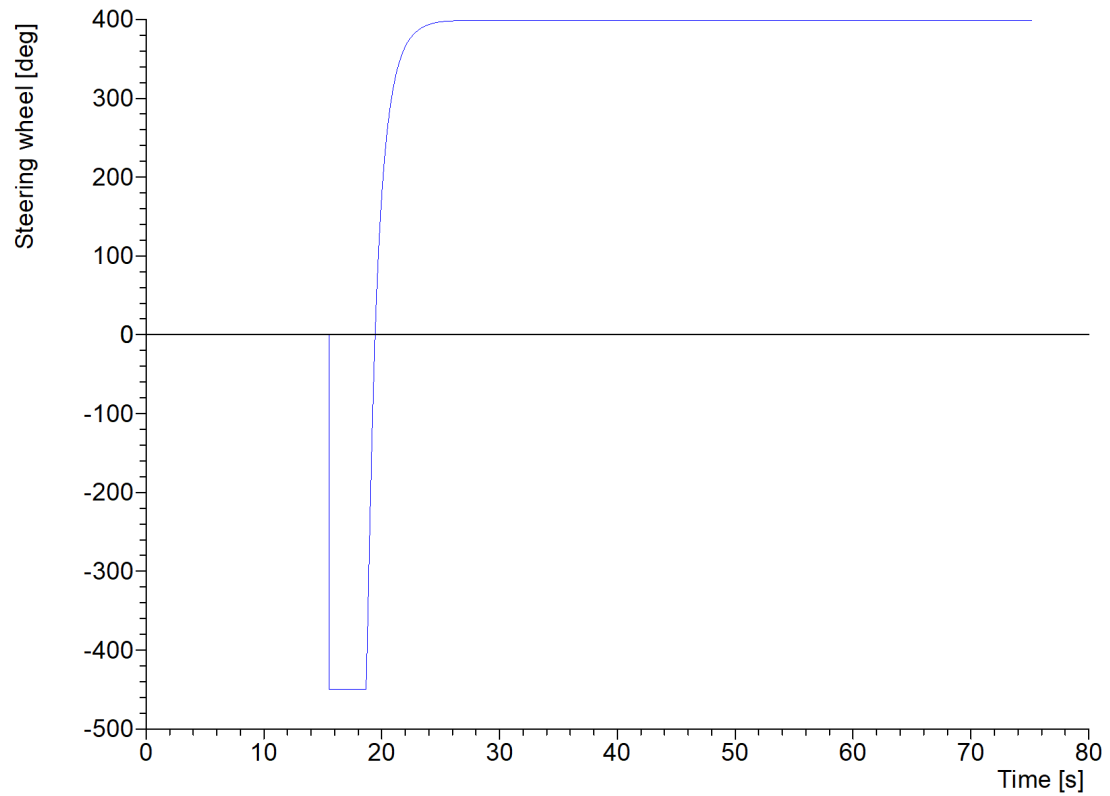



Fig. 18: Steering wheel

2.1.2

Test # 2.1.2	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 1	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	8
NValue	stopNGo	0

Resultfile

[Variation 1.erg](#)

Diagrams

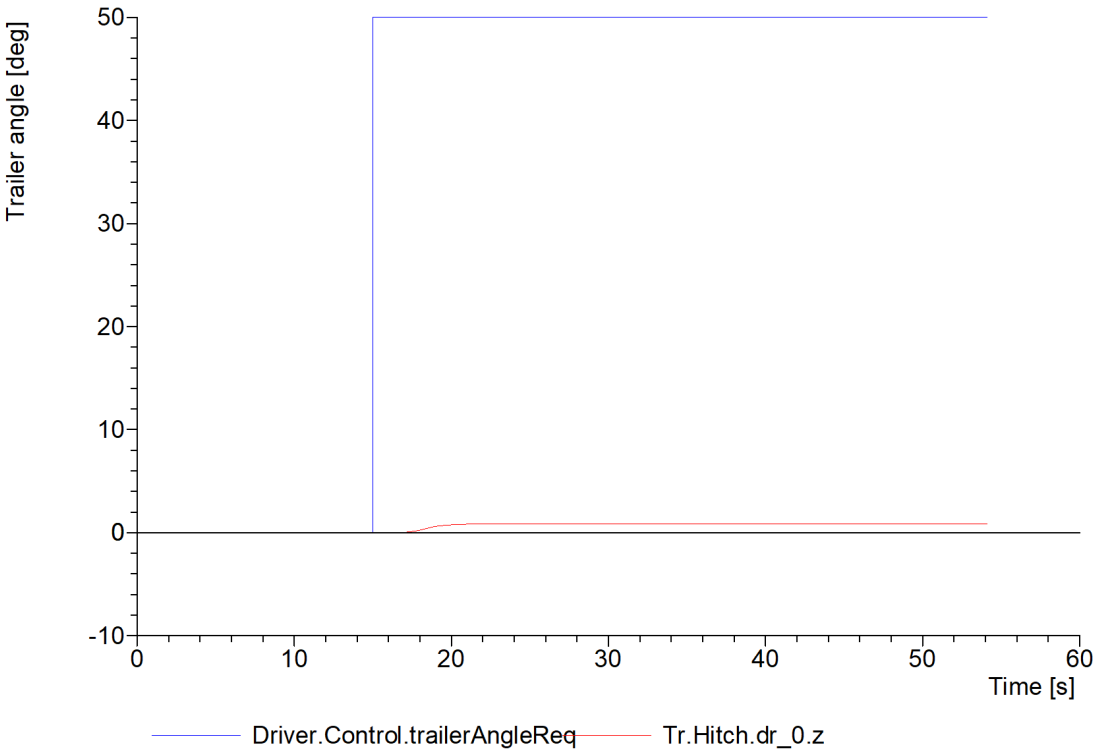


Fig. 19: Trailer angle control

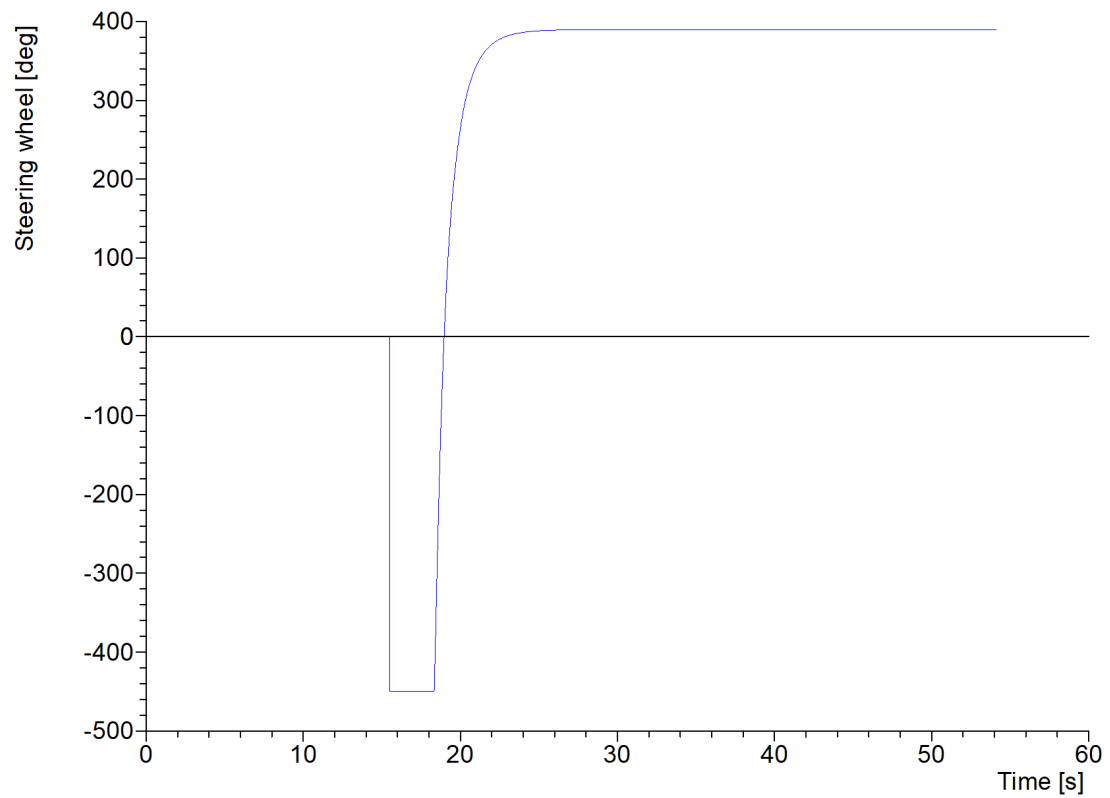



Fig. 20: Steering wheel

2.1.3

Test # 2.1.3	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 2	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	5
NValue	stopNGo	0

Resultfile

[Variation 2.erg](#)

Diagrams

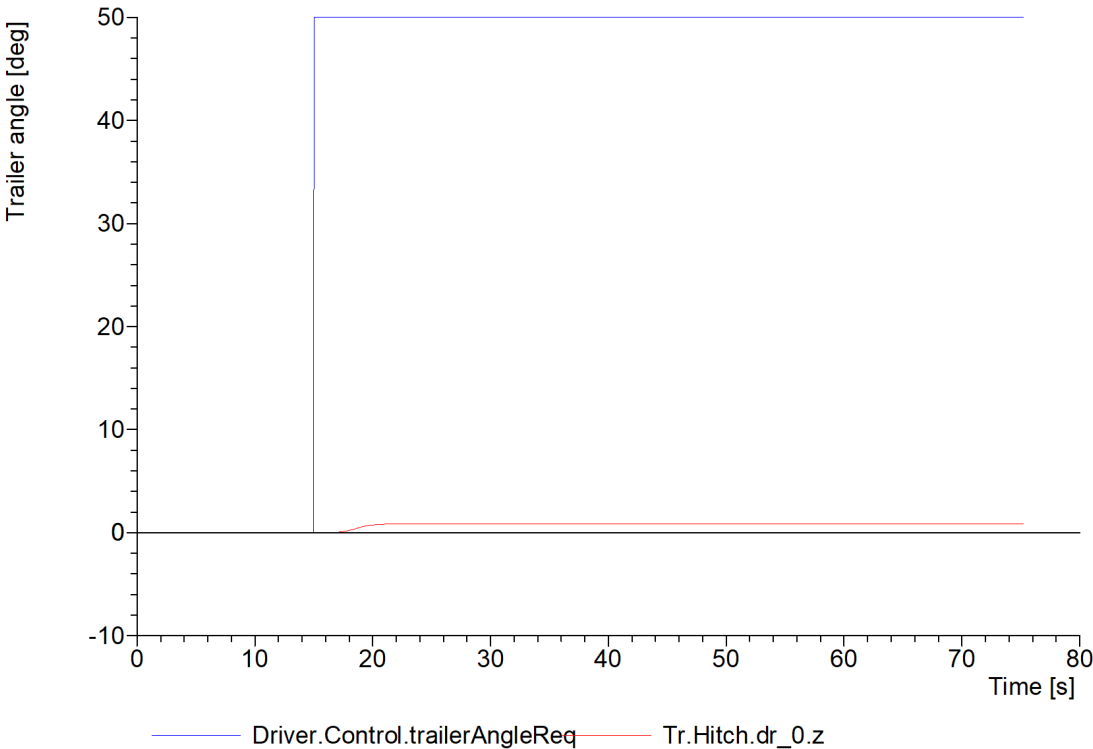


Fig. 21: Trailer angle control

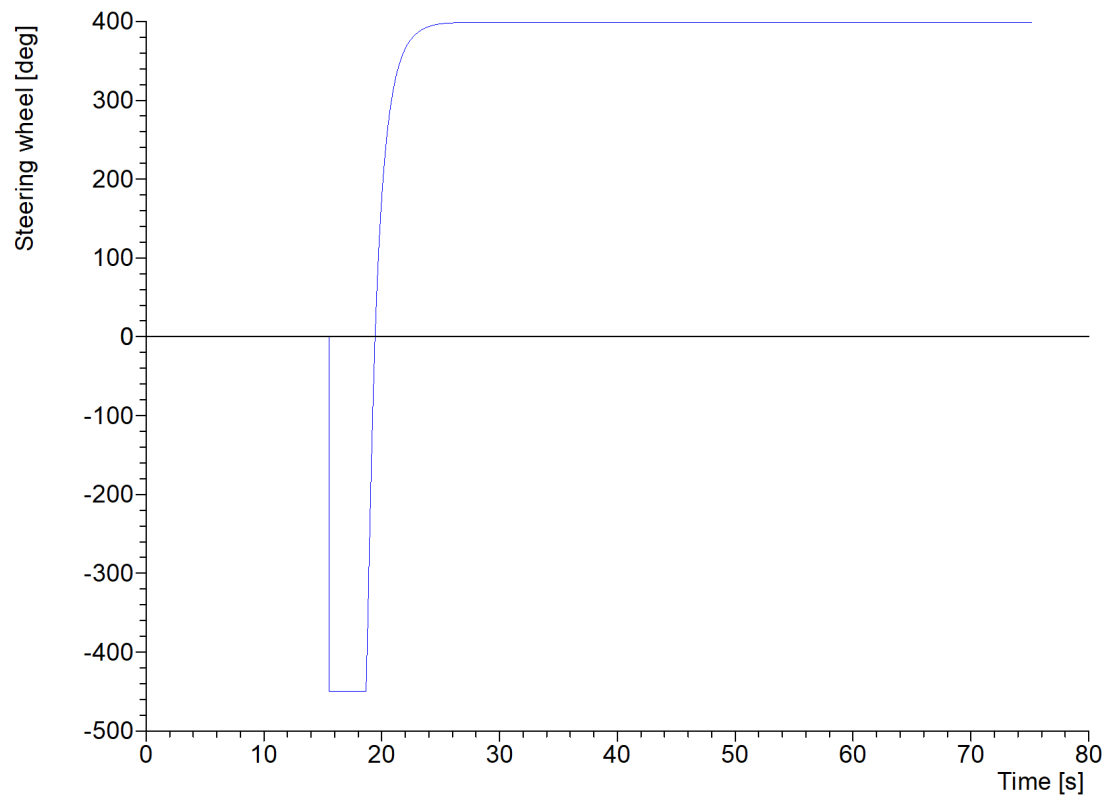



Fig. 22: Steering wheel

2.1.4

Test # 2.1.4	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 3	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
4	215.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	8
NValue	stopNGo	0

Resultfile

[Variation 3.erg](#)

Diagrams

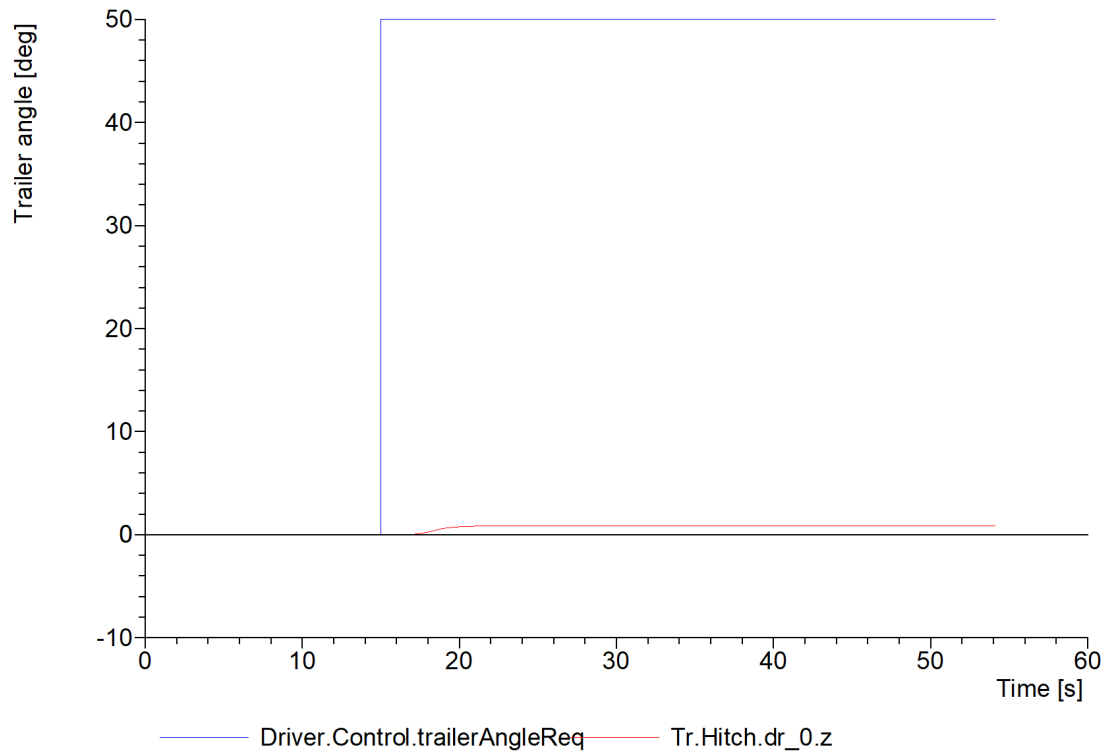


Fig. 23: Trailer angle control

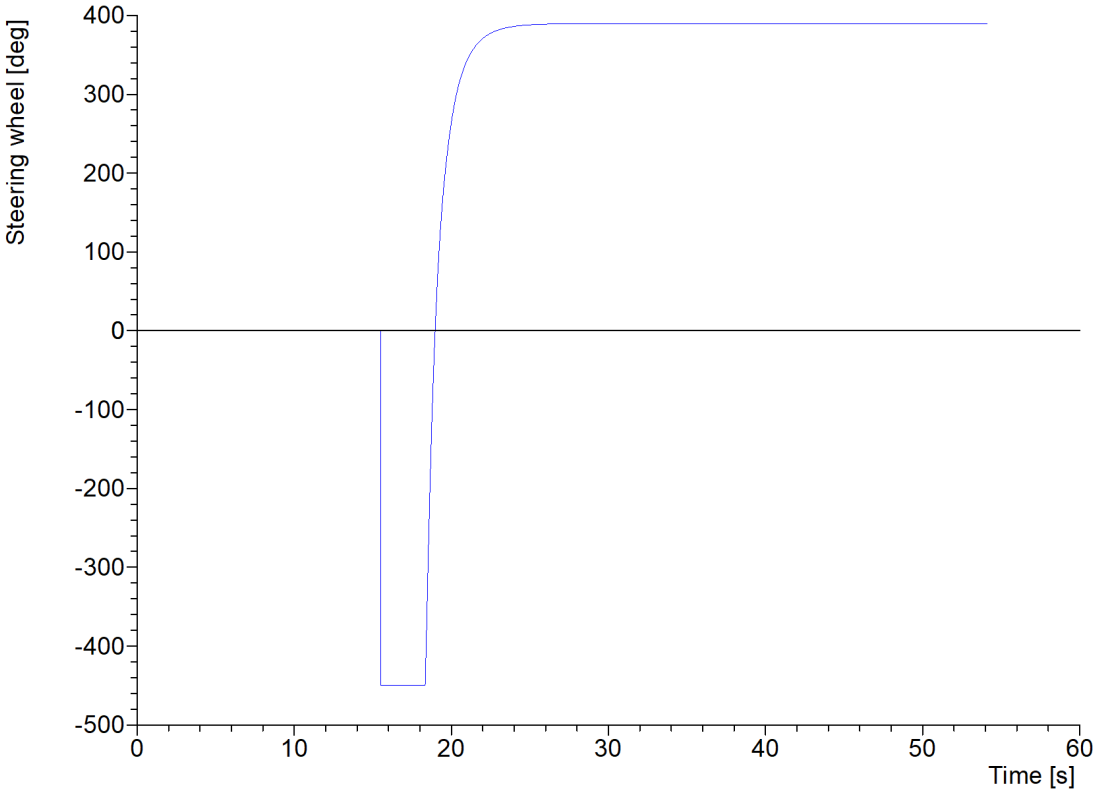



Fig. 24: Steering wheel

2.1.5

Test # 2.1.5	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 4	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	5

Type	Name	Value
NValue	stopNGo	1

Resultfile
Variation 4.erg

Diagrams

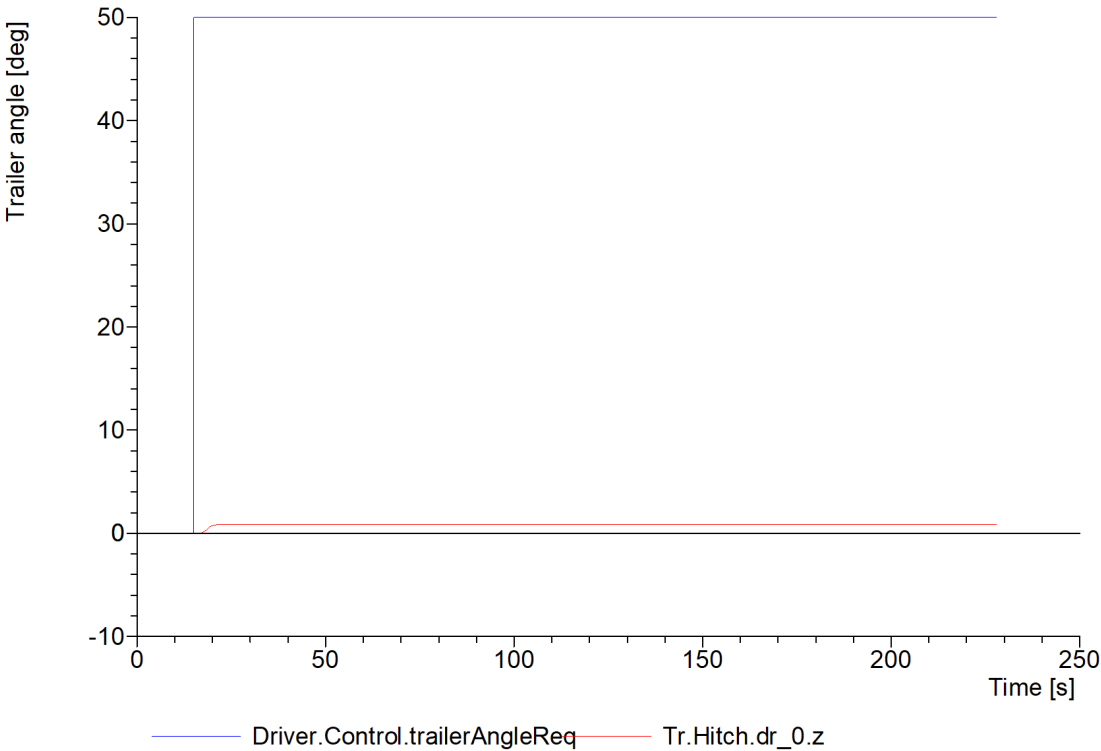


Fig. 25: Trailer angle control

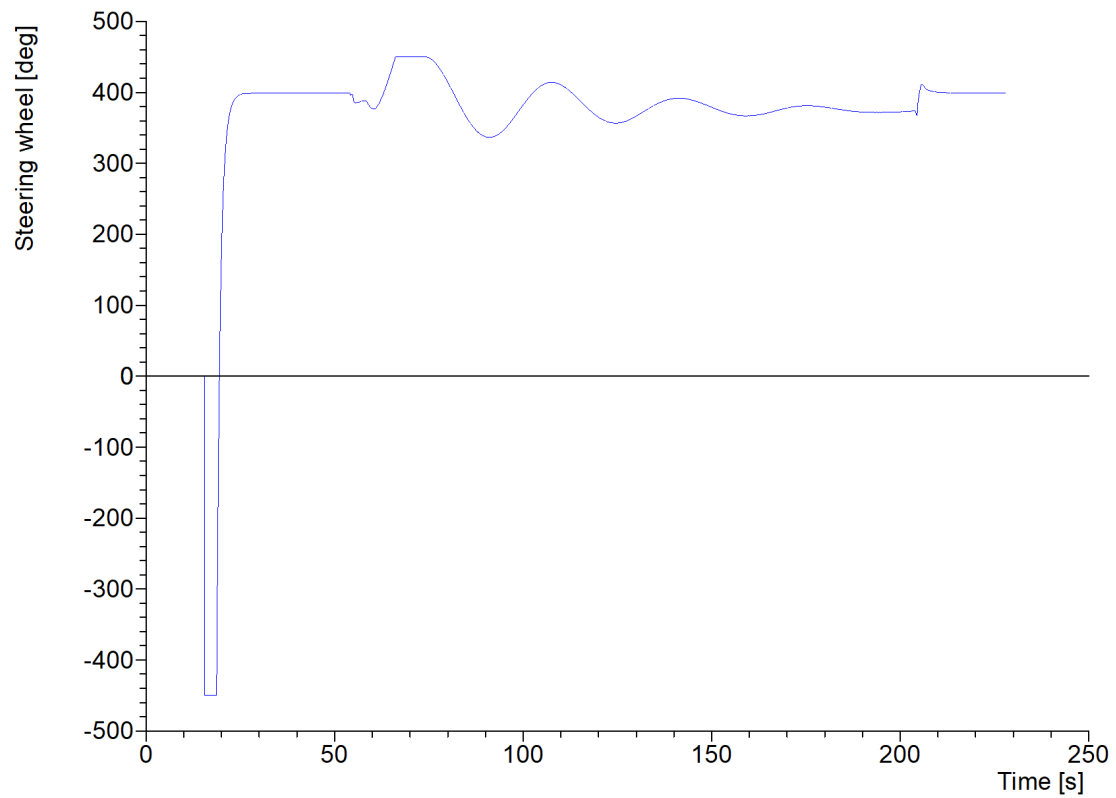



Fig. 26: Steering wheel

2.1.6

Test # 2.1.6	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 5	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	8

Type	Name	Value
NValue	stopNGo	1

Resultfile
Variation 5.erg

Diagrams

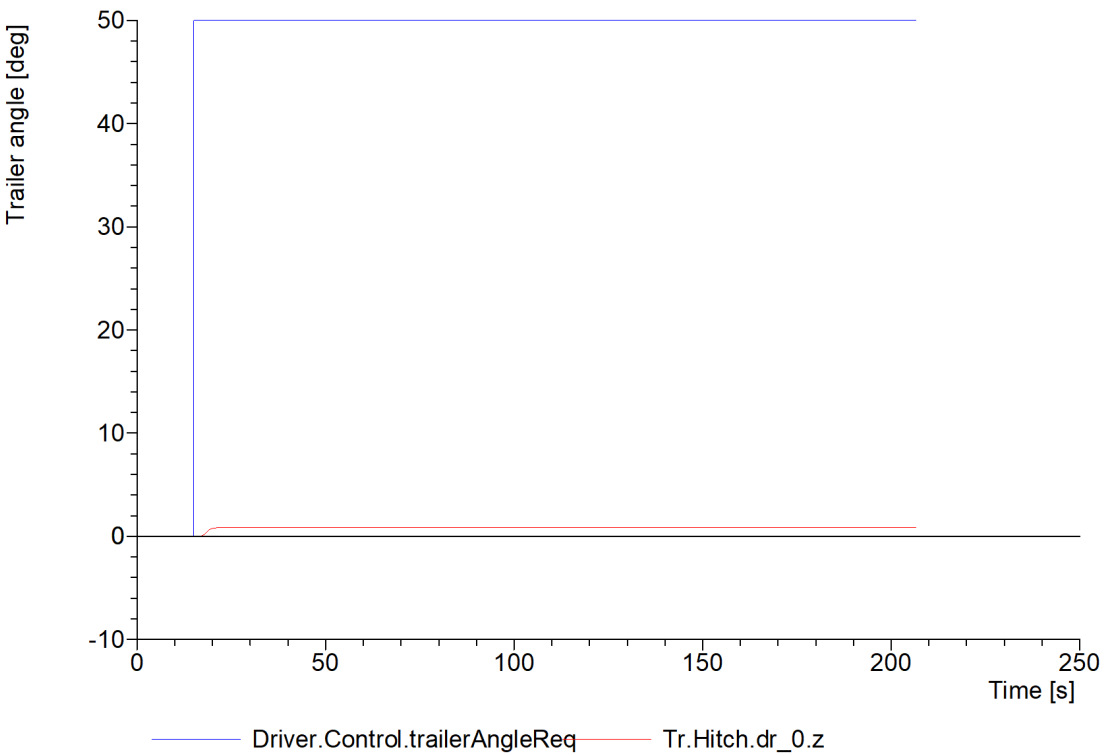


Fig. 27: Trailer angle control

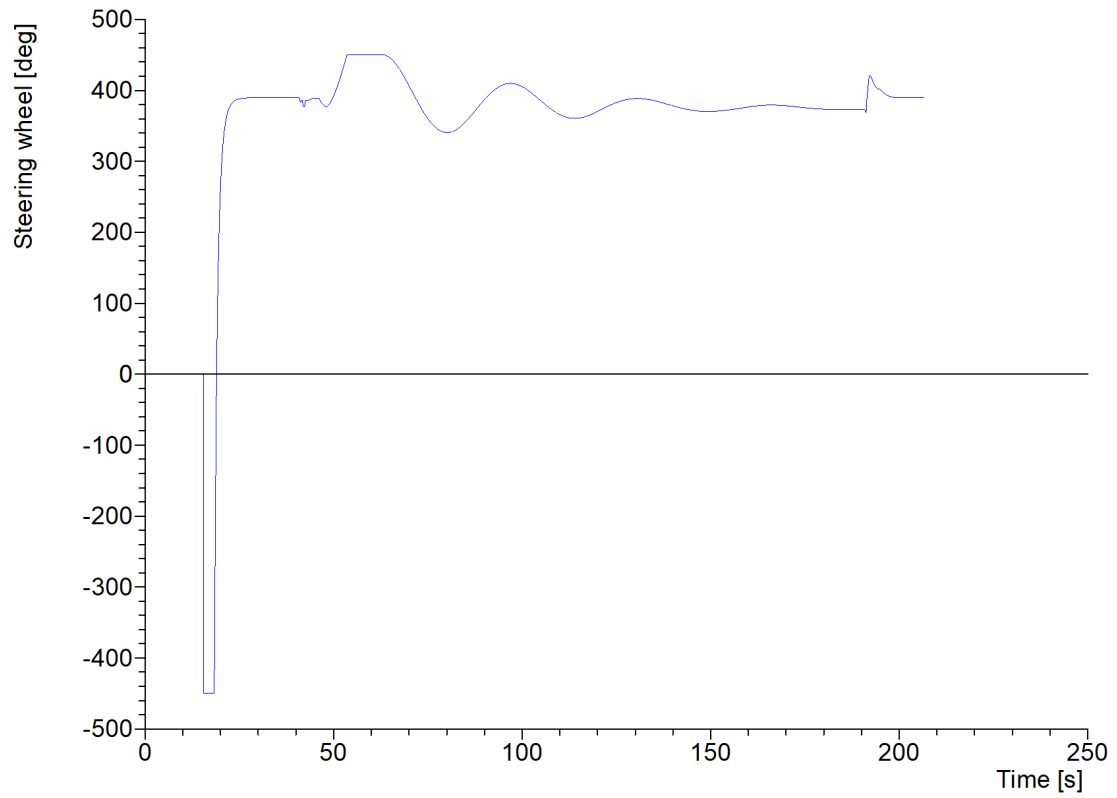



Fig. 28: Steering wheel

2.1.7

Test # 2.1.7	Result
Circle	 Passed
└ Maneuvers/circle	
└ Variation 6	

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	5

Type	Name	Value
NValue	stopNGo	1

Resultfile
Variation 6.erg

Diagrams

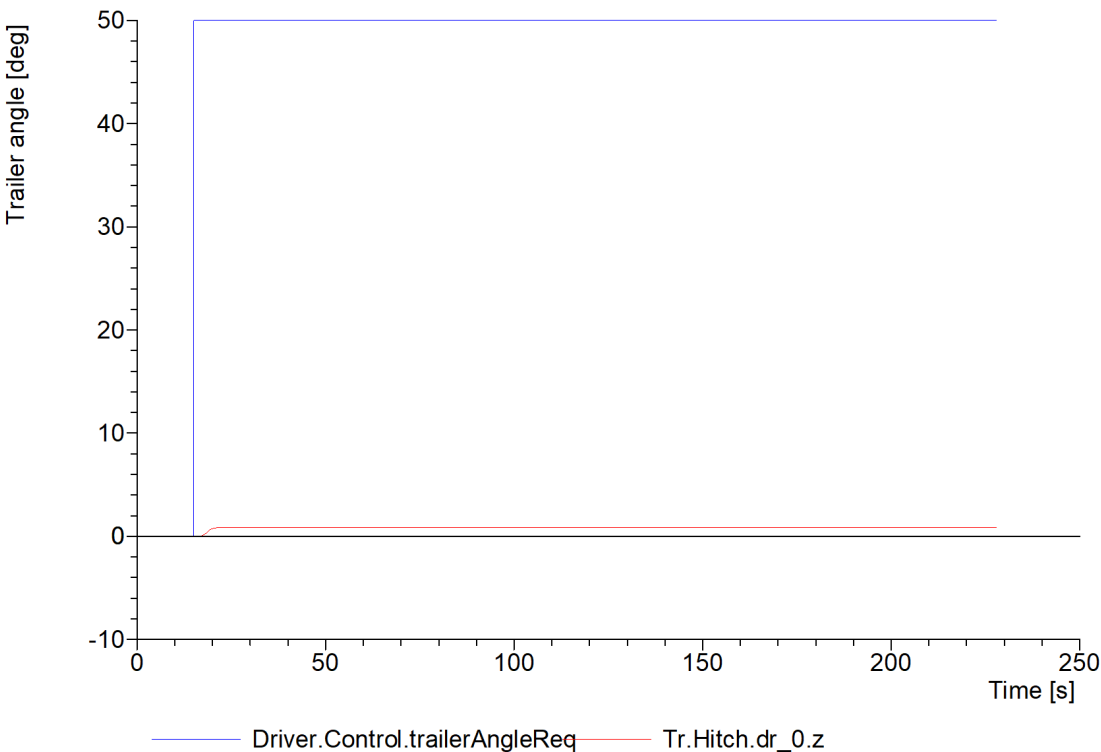


Fig. 29: Trailer angle control

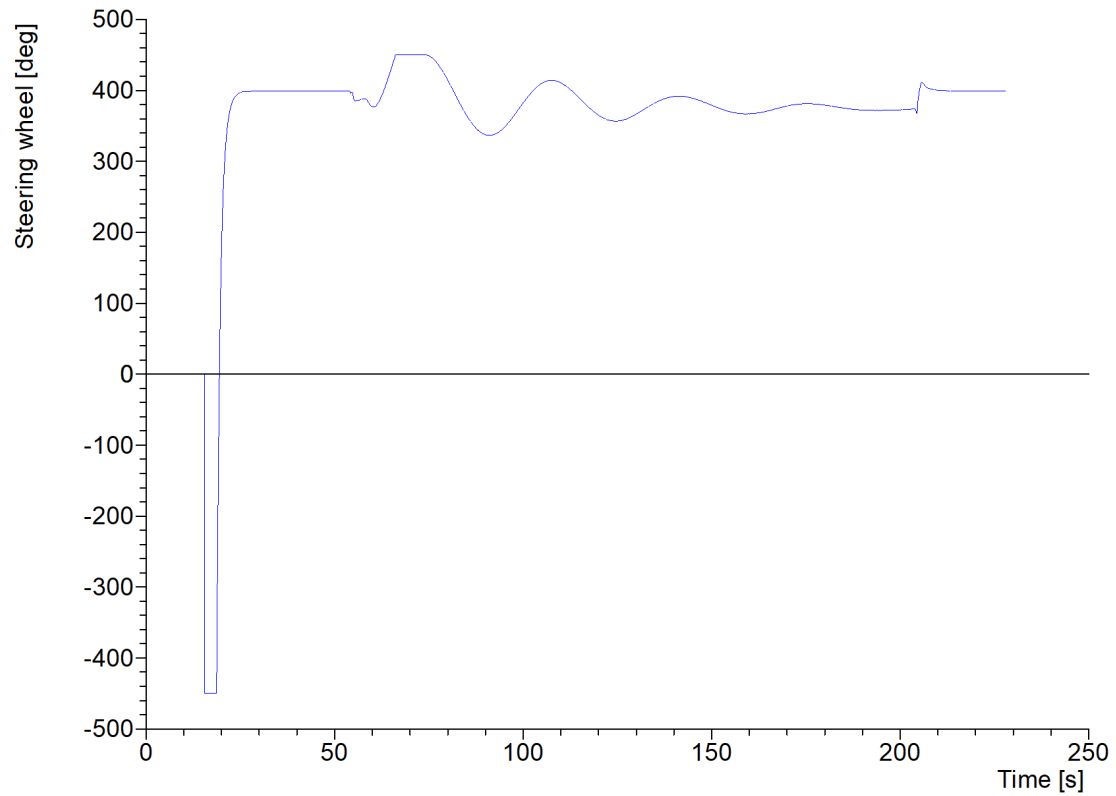



Fig. 30: Steering wheel

2.1.8

Test # 2.1.8	Result
Circle └ Maneuvers/circle └ Variation 7	 Passed

General Information

TestRun	
Name:	Maneuvers/circle
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0	15	Manual	Driver 0	[Standstill] Activate function during standstill
1	15.0	200	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate1] Assisted reverse maneuver
2	215.0	150	Backward \$accel=1.0 0	Driver 0	[Deaccelerate]
3	365.0	10	Manual	Driver 0	[Wait stop]
4	375.0	150	Backward \$accel=1.0 \$speed=5	Driver 0	[Accelerate2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/circle/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	8

Type	Name	Value
NValue	stopNGo	1

Resultfile
Variation 7.erg

Diagrams

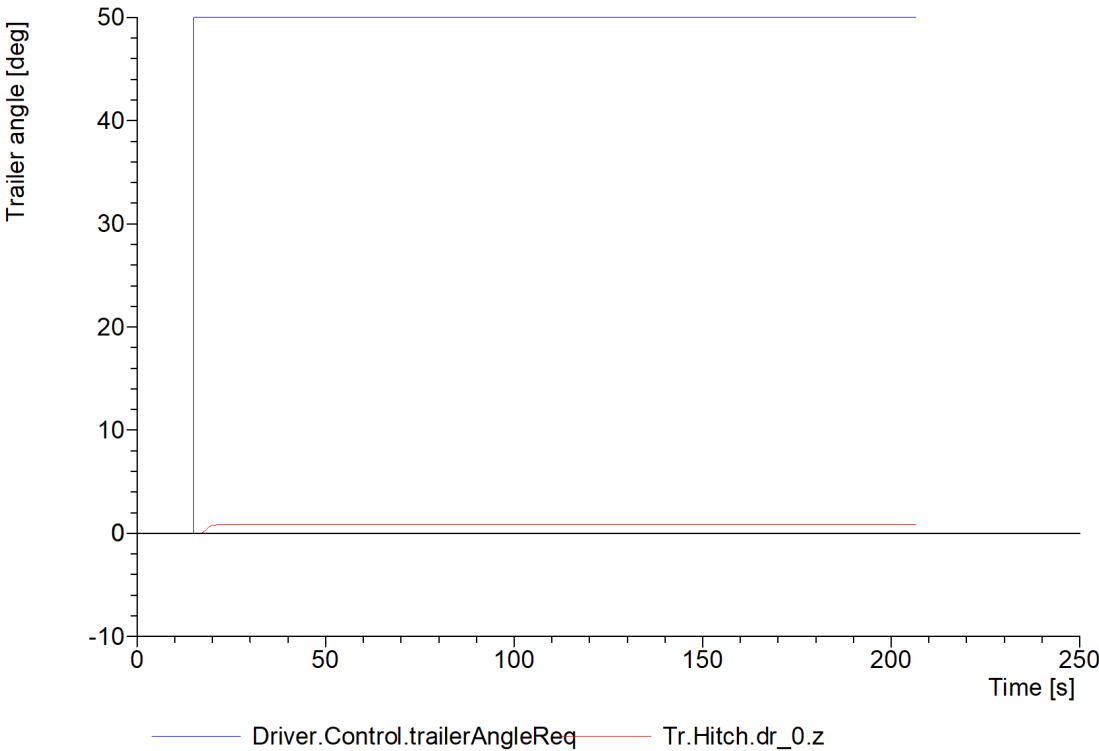


Fig. 31: Trailer angle control

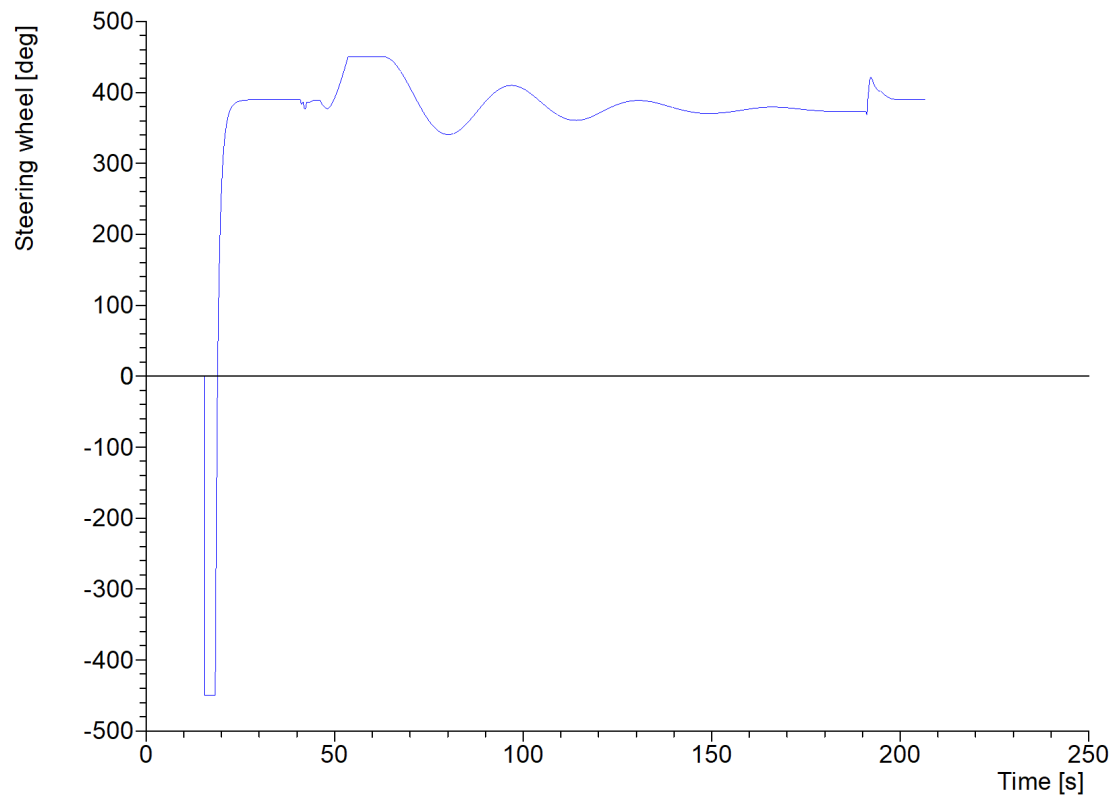



Fig. 32: Steering wheel

3.1

Test # 3.1
Return to line └ Maneuvers/return_to_line

3.1.1

Test # 3.1.1	Result
Return to line └ Maneuvers/return_to_line └ Variation 0	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
6	350.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	500.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 2]
8	650.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	5
NValue	stopNGo	0

Resultfile

[Variation 0.erg](#)

Diagrams

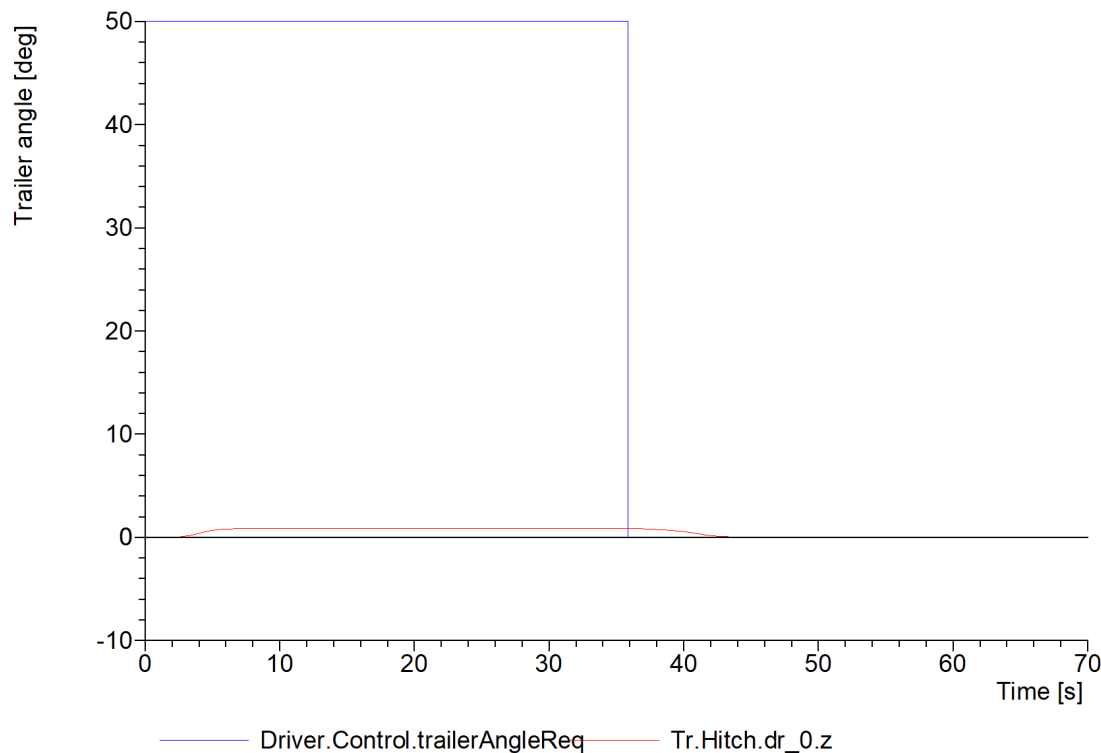


Fig. 33: Trailer angle control

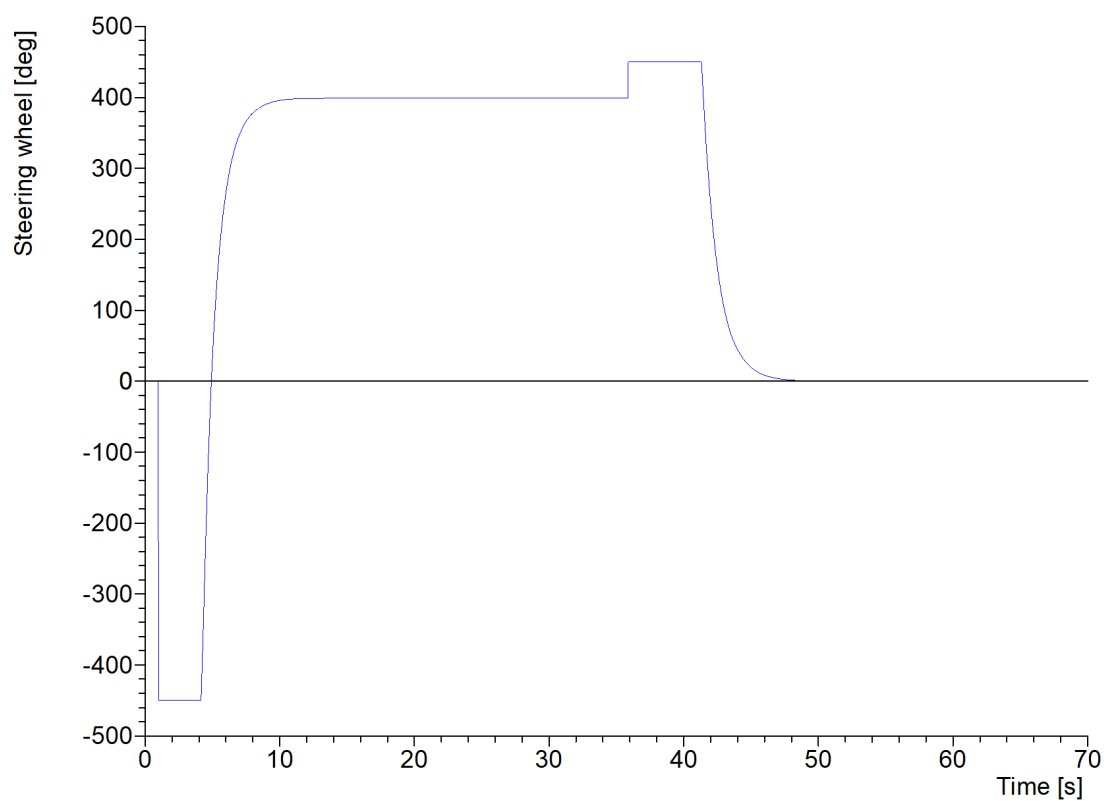



Fig. 34: Steering wheel

3.1.2

Test # 3.1.2	Result
Return to line └ Maneuvers/return_to_line └ Variation 1	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
6	350.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	500.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 2]
8	650.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	8
NValue	stopNGo	0

Resultfile

[Variation 1.erg](#)

Diagrams

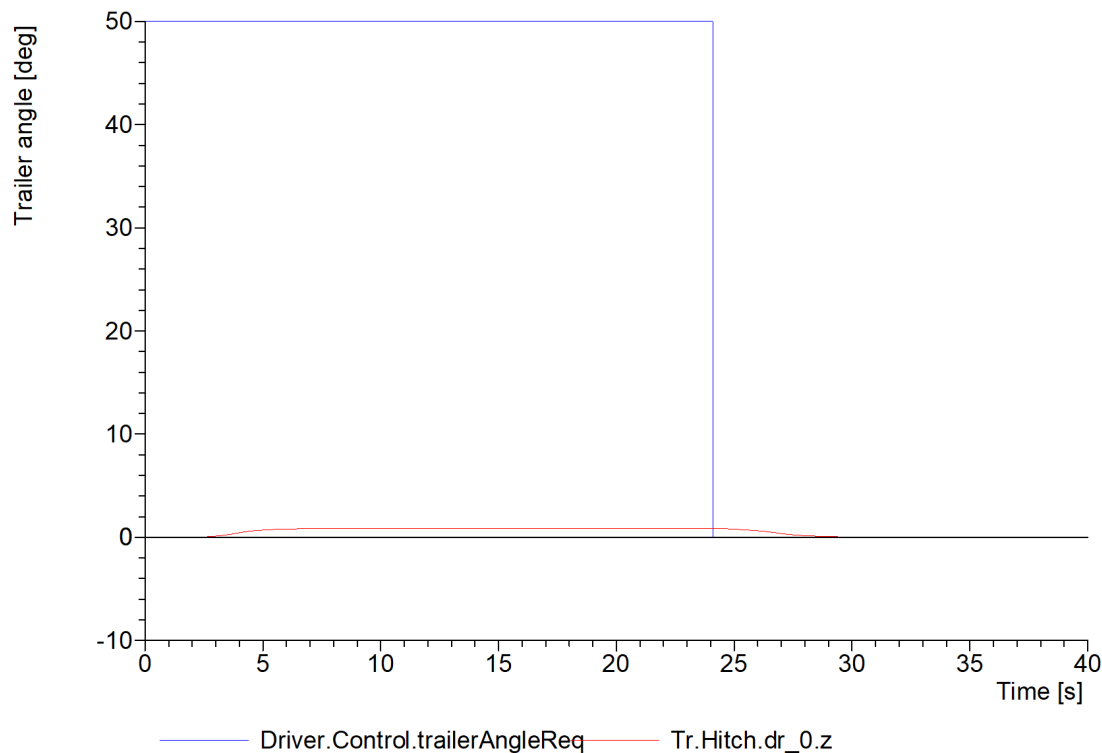


Fig. 35: Trailer angle control

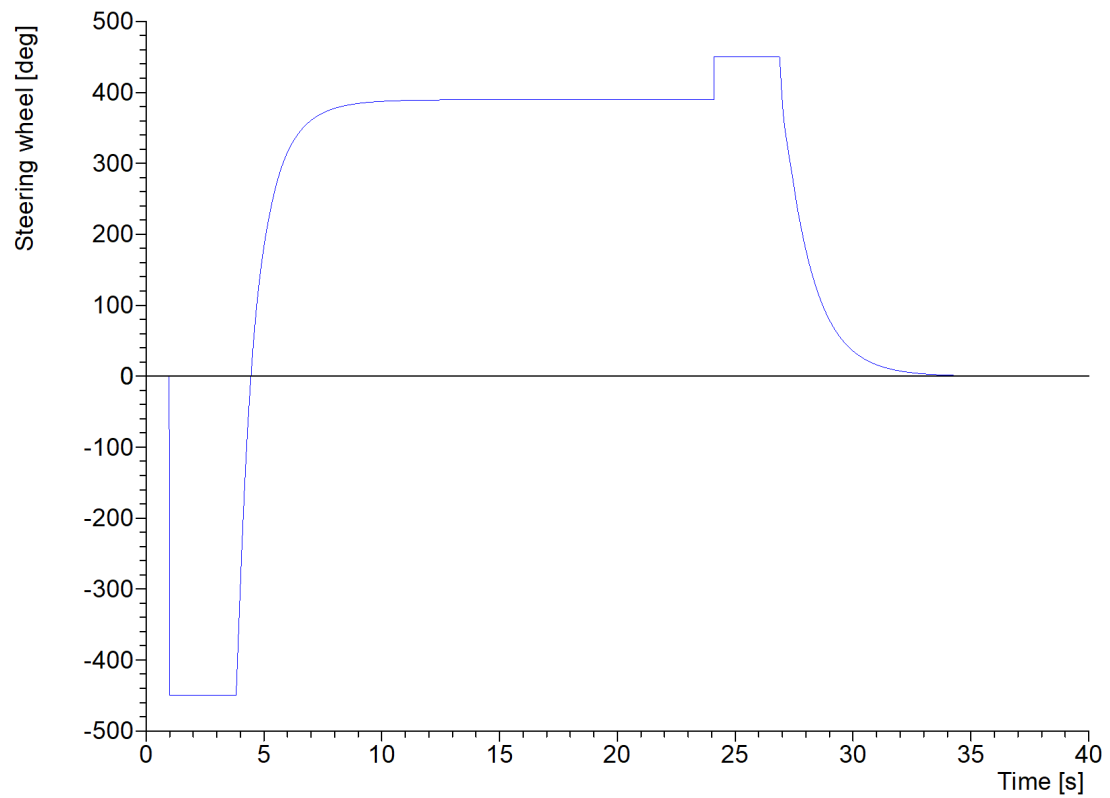



Fig. 36: Steering wheel

3.1.3

Test # 3.1.3	Result
Return to line └ Maneuvers/return_to_line └ Variation 2	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
6	350.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	500.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 2]
8	650.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	5
NValue	stopNGo	0

Resultfile

[Variation 2.erg](#)

Diagrams

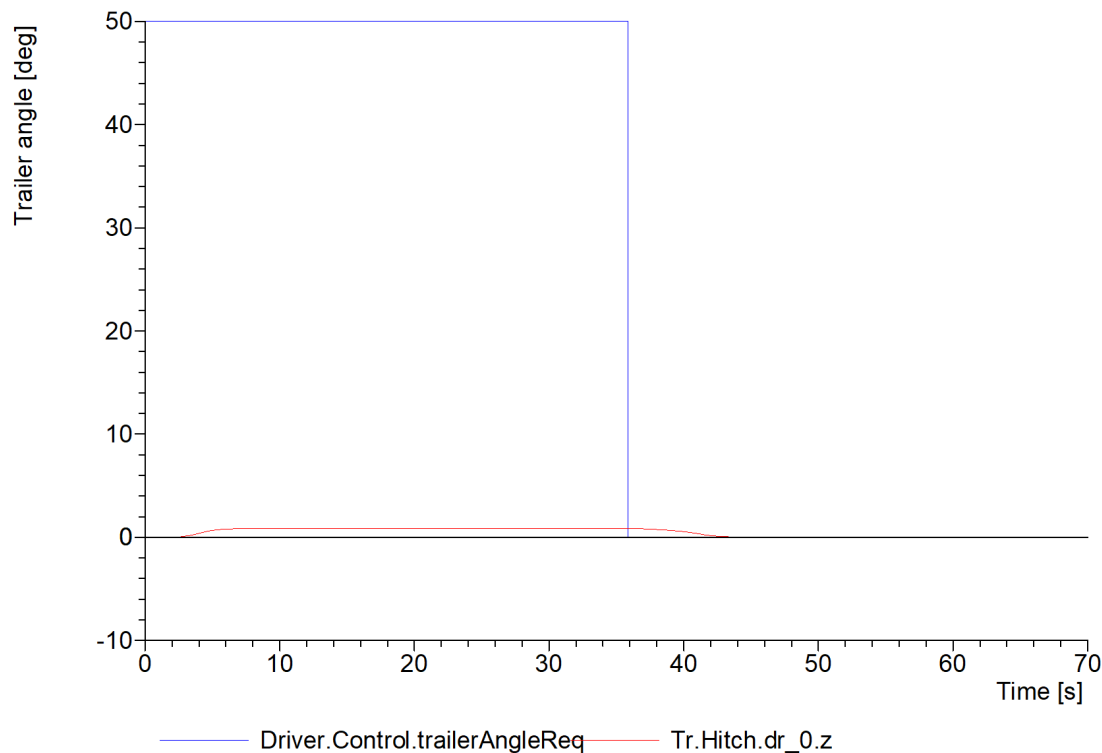


Fig. 37: Trailer angle control

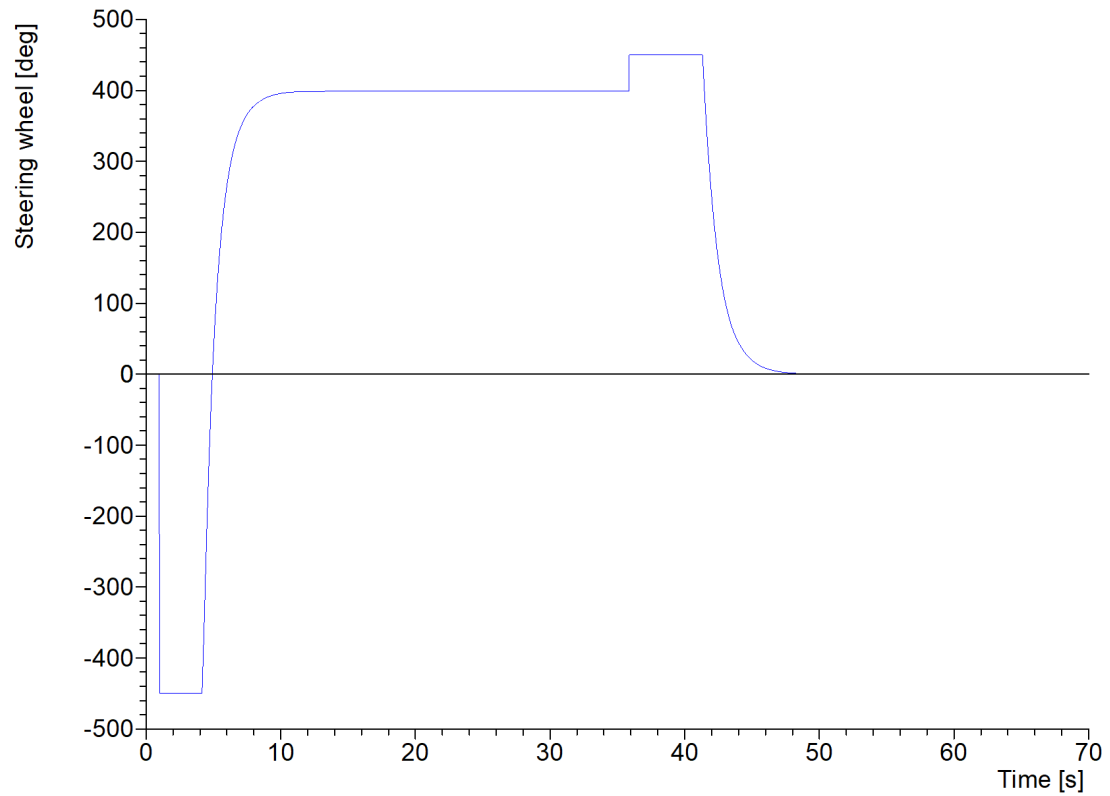



Fig. 38: Steering wheel

3.1.4

Test # 3.1.4	Result
Return to line └ Maneuvers/return_to_line └ Variation 3	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
6	350.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	500.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 2]
8	650.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	8
NValue	stopNGo	0

Resultfile

[Variation 3.erg](#)

Diagrams

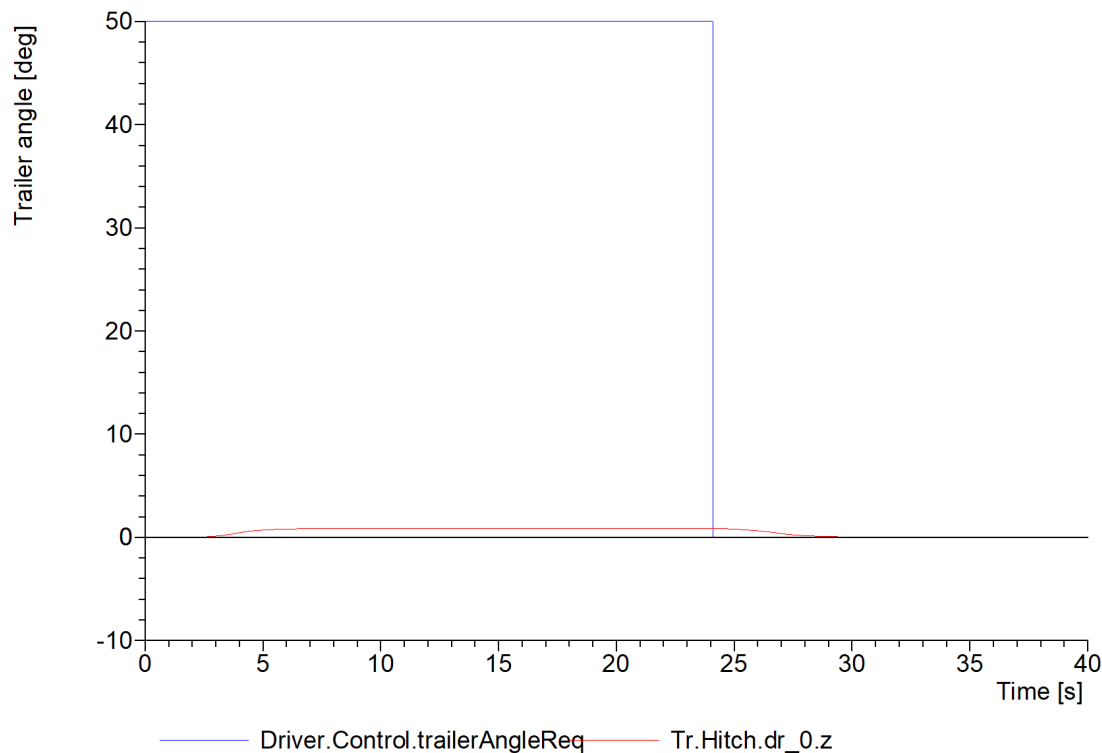


Fig. 39: Trailer angle control

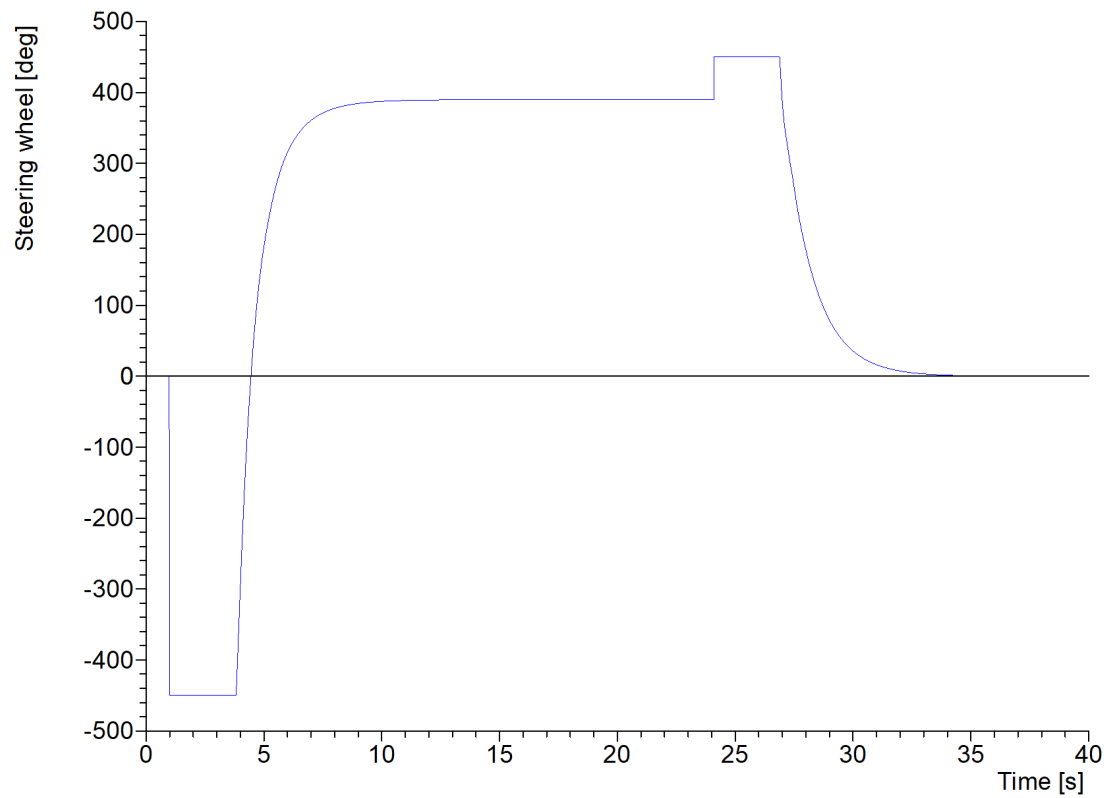



Fig. 40: Steering wheel

3.1.5

Test # 3.1.5	Result
Return to line └ Maneuvers/return_to_line └ Variation 4	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
4	350.0	150	Backward \$accel=2.0 0	Driver 0	[Deaccelerate]
5	500.0	10	Manual	Driver 0	[Wait stop]
6	510.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	660.0	150	Backward \$accel=2.0	Driver 0	[Wait Stabilize 2]

No	Start	Dur	Long	Lat	Label/Description
8	810.0	150	\$speed=5 Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	5
NValue	stopNGo	1

Resultfile
Variation 4.erg

Diagrams

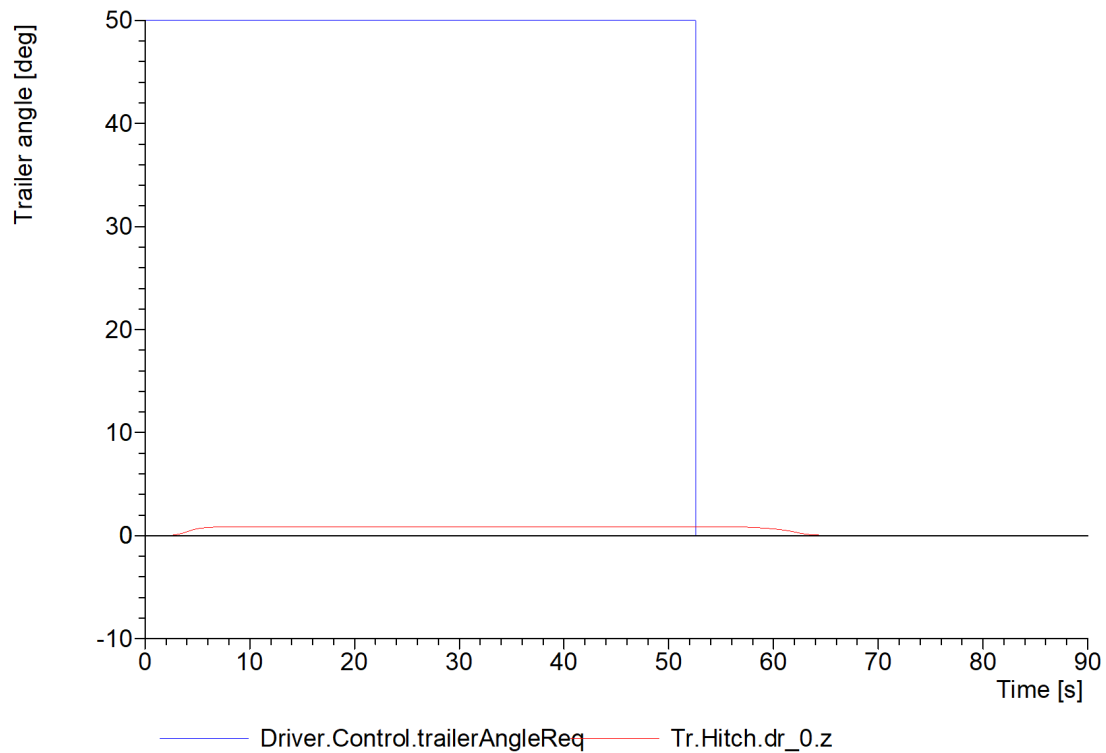


Fig. 41: Trailer angle control

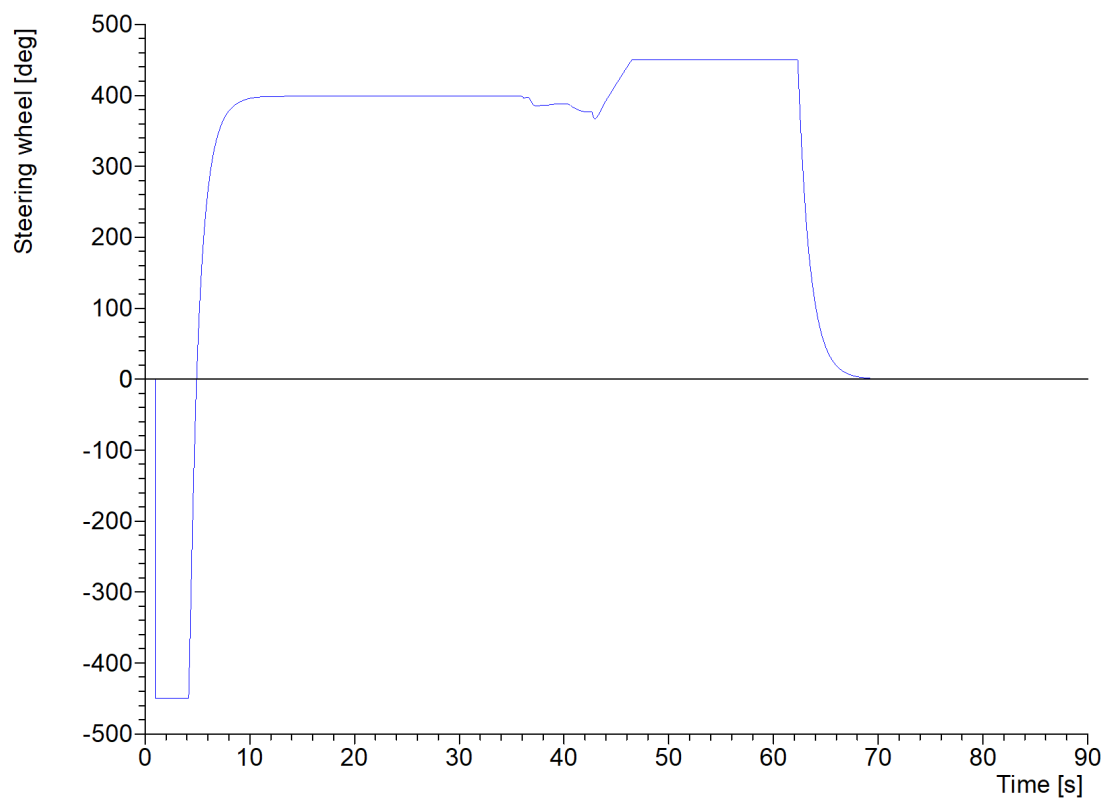



Fig. 42: Steering wheel

3.1.6

Test # 3.1.6	Result
Return to line └ Maneuvers/return_to_line └ Variation 5	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
4	350.0	150	Backward \$accel=2.0 0	Driver 0	[Deaccelerate]
5	500.0	10	Manual	Driver 0	[Wait stop]
6	510.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	660.0	150	Backward \$accel=2.0	Driver 0	[Wait Stabilize 2]

No	Start	Dur	Long	Lat	Label/Description
8	810.0	150	\$speed=5 Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	1
NValue	angleReq	50
NValue	speed	8
NValue	stopNGo	1

Resultfile
Variation 5.erg

Diagrams

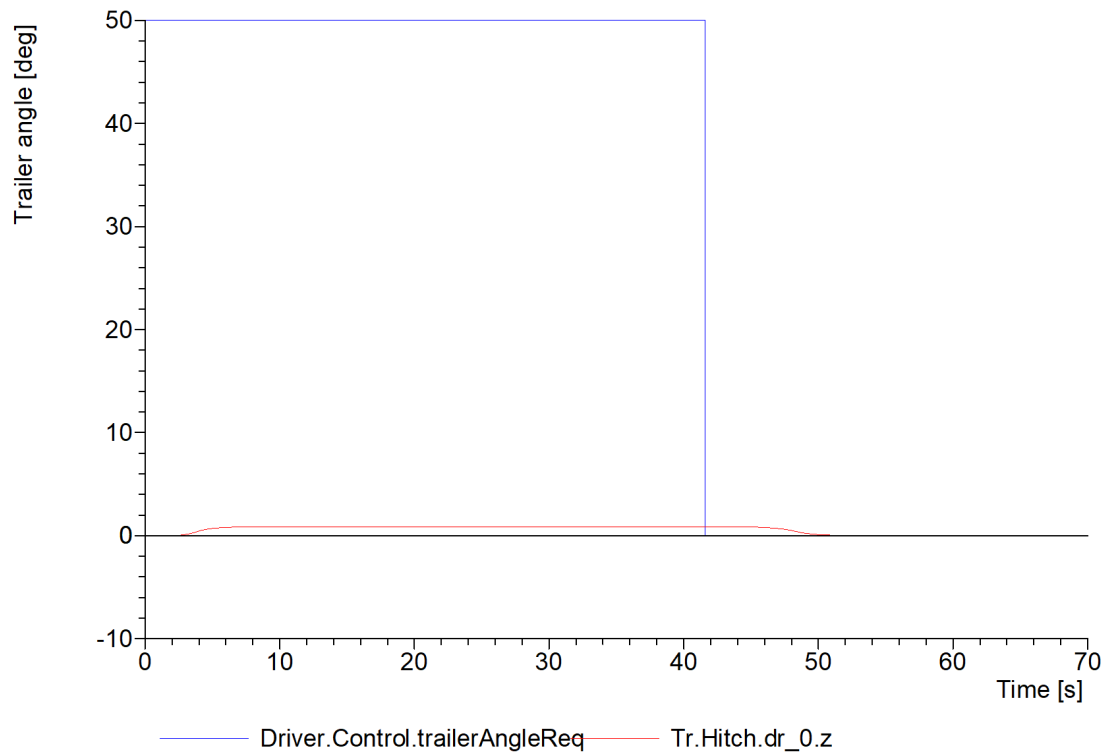


Fig. 43: Trailer angle control

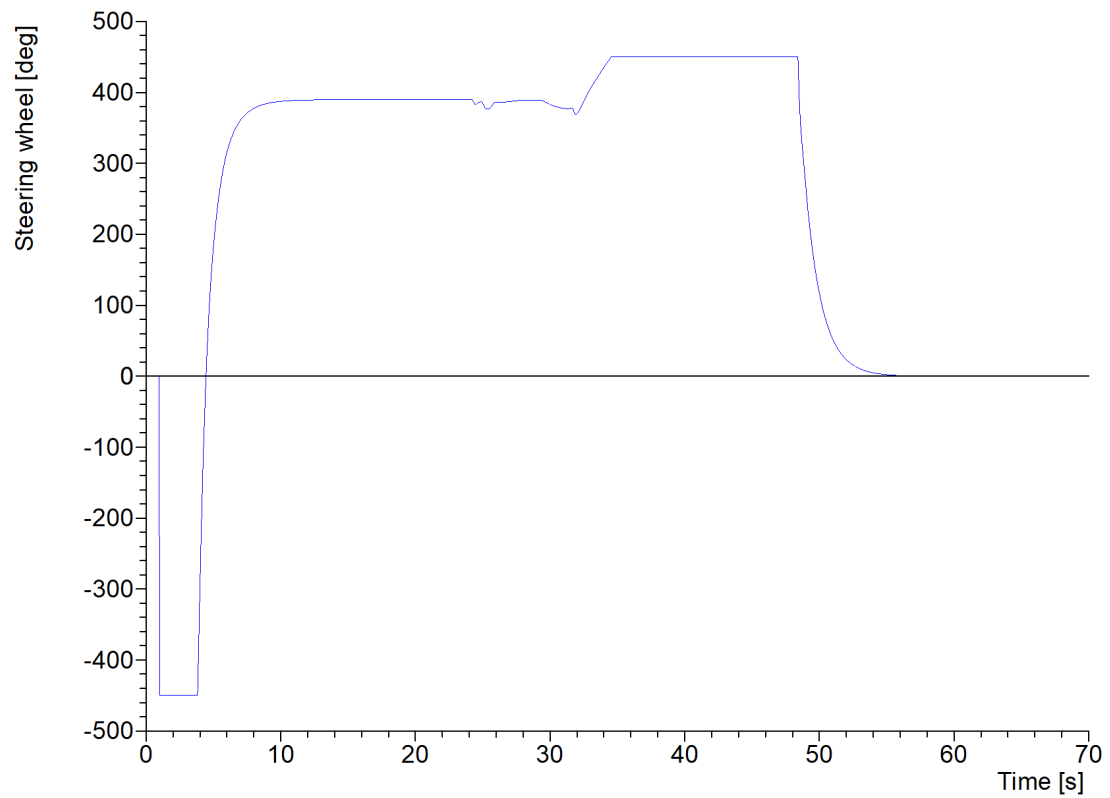



Fig. 44: Steering wheel

3.1.7

Test # 3.1.7	Result
Return to line └ Maneuvers/return_to_line └ Variation 6	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
4	350.0	150	Backward \$accel=2.0 0	Driver 0	[Deaccelerate]
5	500.0	10	Manual	Driver 0	[Wait stop]
6	510.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	660.0	150	Backward \$accel=2.0	Driver 0	[Wait Stabilize 2]

No	Start	Dur	Long	Lat	Label/Description
8	810.0	150	\$speed=5 Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	5
NValue	stopNGo	1

Resultfile
Variation 6.erg

Diagrams

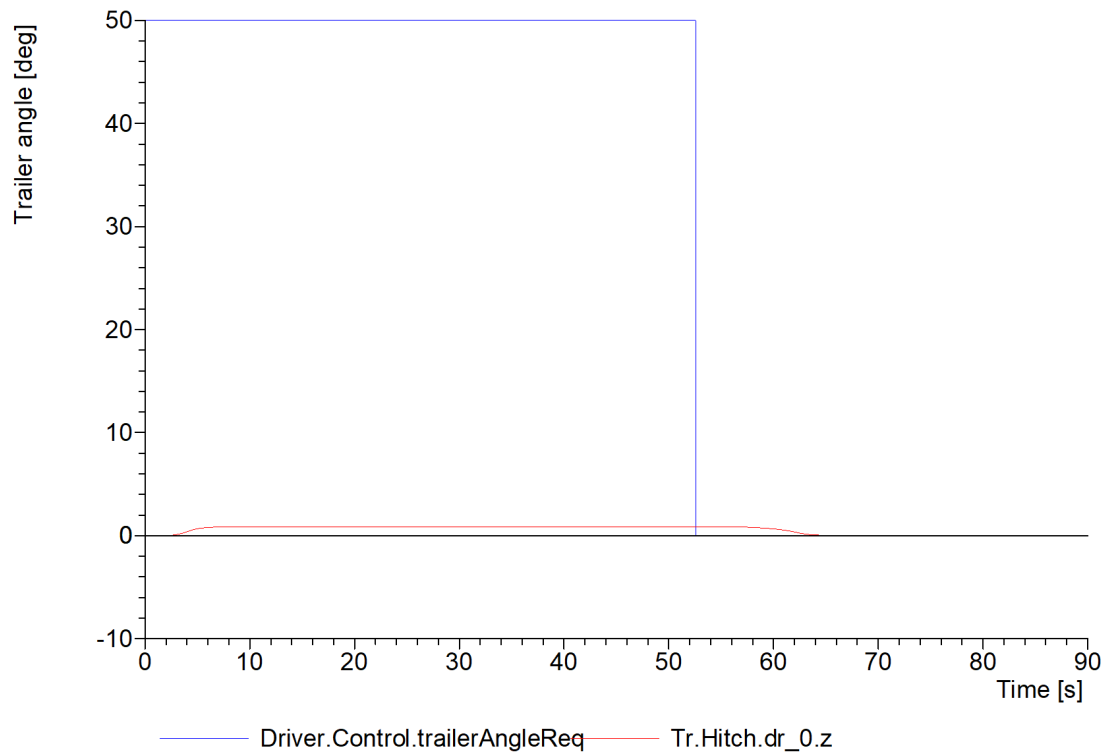


Fig. 45: Trailer angle control

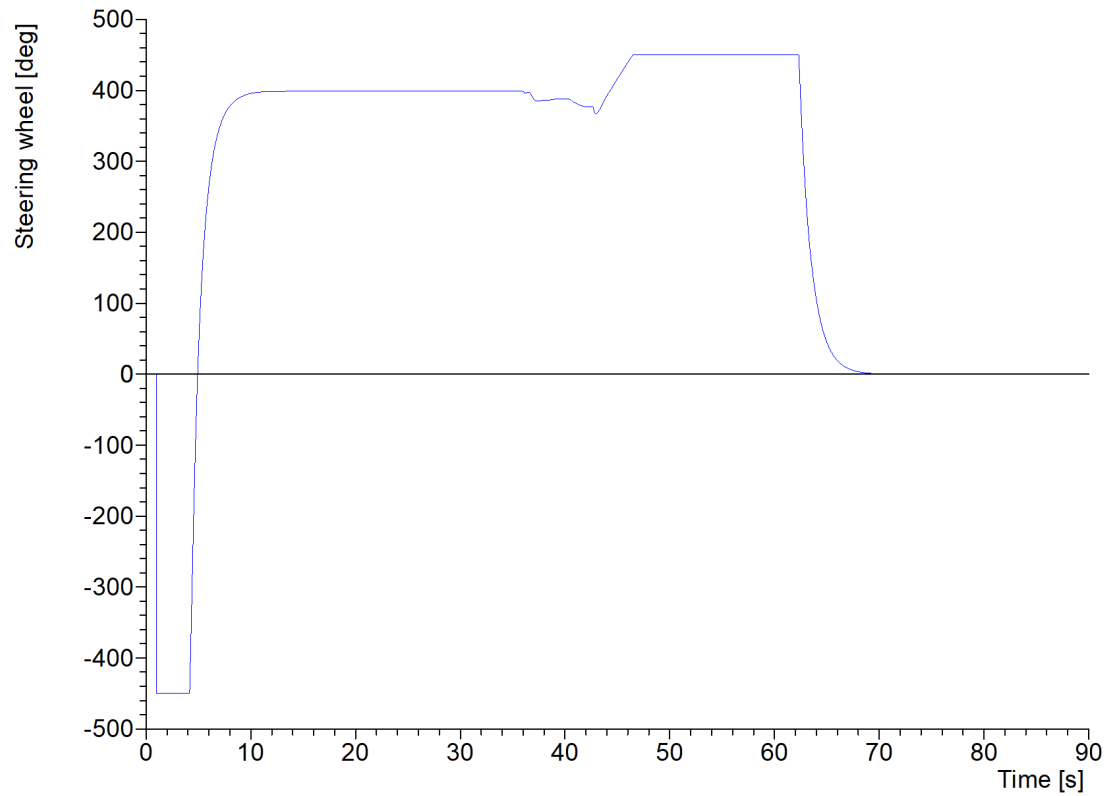



Fig. 46: Steering wheel

3.1.8

Test # 3.1.8	Result
Return to line └ Maneuvers/return_to_line └ Variation 7	 Passed

General Information

TestRun	
Name:	Maneuvers/return_to_line
Description:	

Vehicle	
Name:	ChallengeCar
Description:	Typical, unvalidated data for passenger car with Front Wheel Drive Tire: RT 195/65 R15

Tires Vehicle	
Tire 0:	Examples/RT_195_65R15
Tire 1:	Examples/RT_195_65R15
Tire 2:	Examples/RT_195_65R15
Tire 3:	Examples/RT_195_65R15

Trailer	
Name:	Caravan
Description:	Typical, unvalidated data for 1-axle caravan trailer Tire: RT_CaravanSpecial

Tires Trailer	
Tire 0:	Examples/RT_CaravanSpecial
Tire 1:	Examples/RT_CaravanSpecial

Maneuvers

Note: Only executed maneuver steps are listed

No	Start	Dur	Long	Lat	Label/Description
0	0.0		Manual	Driver 0	[Activate TRA] During standstill
1	0.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Circle start] Left
2	150.0	50	Backward \$accel=2.0 \$speed=5	Driver 0	[Wait Stabilize 1]
3	200.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 1]
4	350.0	150	Backward \$accel=2.0 0	Driver 0	[Deaccelerate]
5	500.0	10	Manual	Driver 0	[Wait stop]
6	510.0	150	Backward \$accel=2.0 \$speed=5	Driver 0	[Return to Line]
7	660.0	150	Backward \$accel=2.0	Driver 0	[Wait Stabilize 2]

No	Start	Dur	Long	Lat	Label/Description
8	810.0	150	\$speed=5 Backward \$accel=2.0 \$speed=5	Driver 0	[Steady state 2]

Active Settings

Type	Name	Value
CM	ResultFName	SimOutput/challenge/returnLine/%v
NValue	accel	2
NValue	angleReq	50
NValue	speed	8
NValue	stopNGo	1

Resultfile
Variation 7.erg

Diagrams

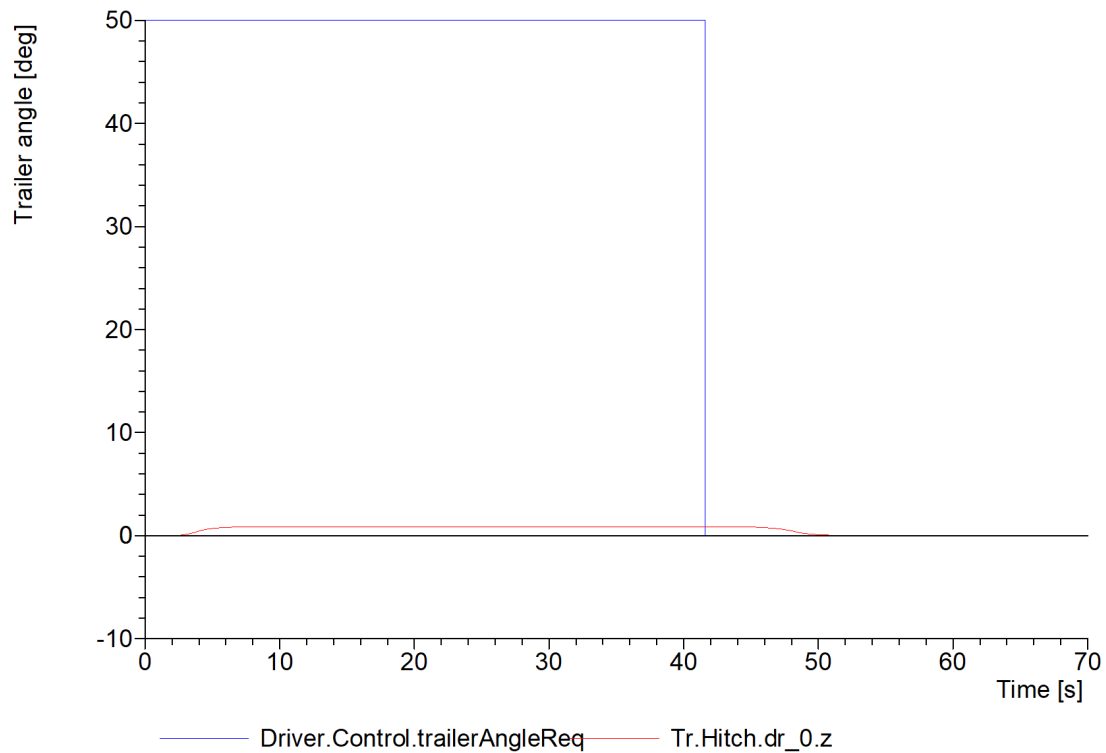


Fig. 47: Trailer angle control

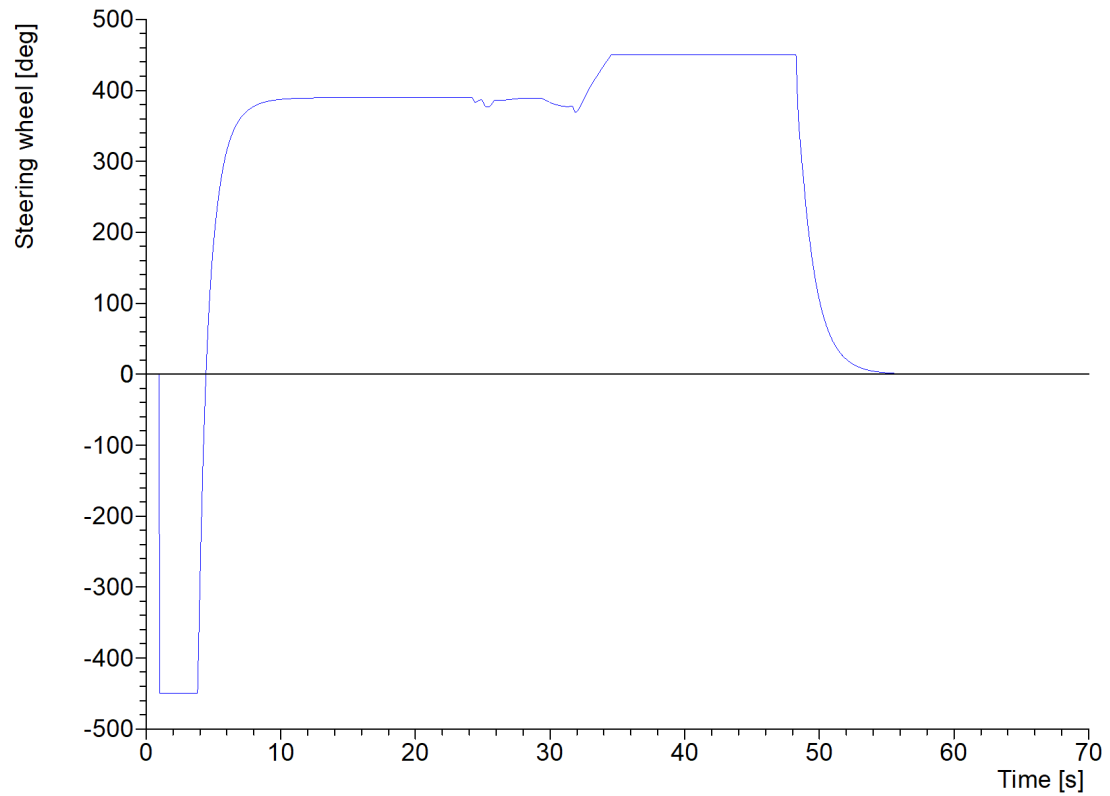


Fig. 48: Steering wheel