Report Generated by Test Manager

Title: Dynamic Obstacle Avoidance - Test Report

Author: Gianvincenzo Daddabbo, Gaetano Gallo, Alberto Ruggeri, Martina Tedesco, Alessandro Toschi

Date: 26-May-2021 09:43:32

Test Environment

Platform: PCWIN64
MATLAB: (R2021a)

Summary

Name	Outcome	Duration (Seconds)
Dynamic_obstacle_avoidance	42 ✓ 2 ✗	952.253
Dynamic_obstacle 100km/h	20 ✓ 2 ✗	266.568
0° 100km/h	✓	6.367
20° 100km/h	✓	6.335
45° 100km/h	✓	8.136
70° 100km/h	✓	17.95
90° 100km/h	✓	6.9
110° 100km/h	✓	6.493
135° 100km/h	✓	10.395
160° 100km/h	✓	13.949
180° 100km/h	✓	6.76
-20° 100km/h	✓	7.464
-45° 100km/h	✓	8.957
-70° 100km/h	✓	19.642
-90° 100km/h	✓	8.058
-110° 100km/h	✓	7.228
-135° 100km/h	✓	8.542
-160° 100km/h	✓	21.443
1000m curvature clockwise 100km/h	✓	31.149
500m curvature clockwise 100km/h	✓	11.731
300m curvature clockwise 100km/h	✓	8.013
300m curvature counterclockwise 100km/h	✗	8.406
500m curvature counterclockwise 100km/h	✗	13.961
1000m curvature counterclockwise 100km/h	✓	26.605
Dynamic_obstacle 40km/h	22 ✓	685.589

0° 40km/h	10.831
20° 40km/h	11.338
45° 40km/h	15.141
70° 40km/h	44.421
90° 40km/h	11.07
110° 40km/h	11.382
135° 40km/h	14.6
160° 40km/h	34.575
180° 40km/h	10.986
-20° 40km/h	13.082
-45° 40km/h	19.147
-70° 40km/h	64.085
-90° 40km/h	14.704
-110° 40km/h	15.681
-135° 40km/h	21.68
-160° 40km/h	50.176
1000m curvature clockwise 40km/h	128.089
500m curvature clockwise 40km/h	40.137
300m curvature clockwise 40km/h	20.121
300m curvature counterclockwise 40km/h	20.023
500m curvature counterclockwise 40km/h	31.762
1000m curvature counterclockwise 40km/h	80.357

Dynamic_obstacle_avoidance

Test Result Information

Result Type:	Test File Result
Parent:	None
Start Time:	26-May-2021 09:23:11
End Time:	26-May-2021 09:39:04
Outcome:	Total: 44, Passed: 42, Failed: 2
Description:	

This report describes the tests performed for the Obstacle Avoidance regarding 5 static obstacles considering different simple scenarios at 40km/h and 100km/h.

Test Suite Information

Name:	Dynamic_obstacle_avoidance

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Dynamic_obstacle 100km/h

Test Result Information

Result Type:	Test Suite Result
Parent:	Dynamic_obstacle_avoidance
Start Time:	26-May-2021 09:23:11
End Time:	26-May-2021 09:27:38
Outcome:	Total: 22, Passed: 20, Failed: 2

Test Suite Information

Name:	Dynamic_obstacle 100km/h

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0° 100km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 100km/h
Start Time: 26-May-2021 09:23:11
End Time: 26-May-2021 09:23:18
Outcome: Passed

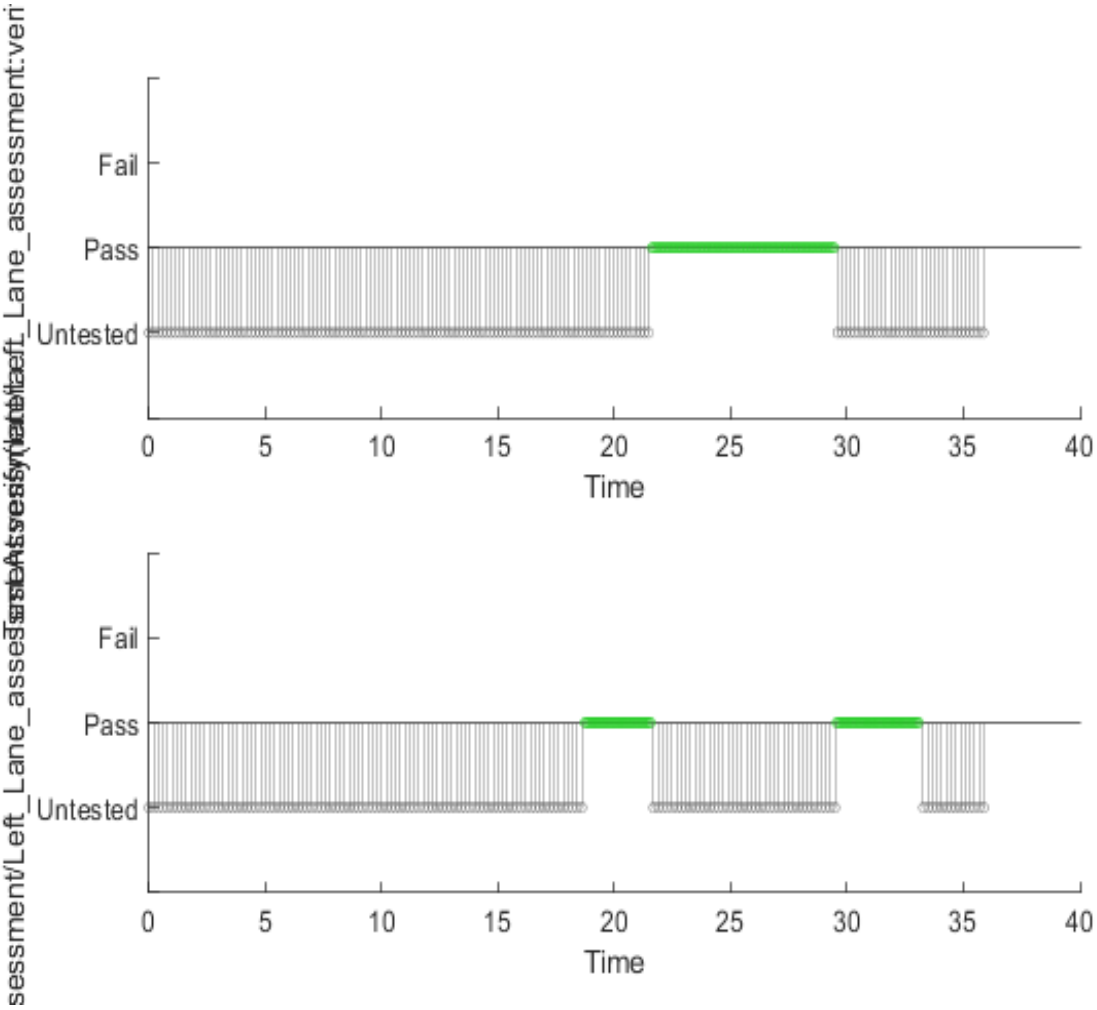
Test Case Information

Name: 0° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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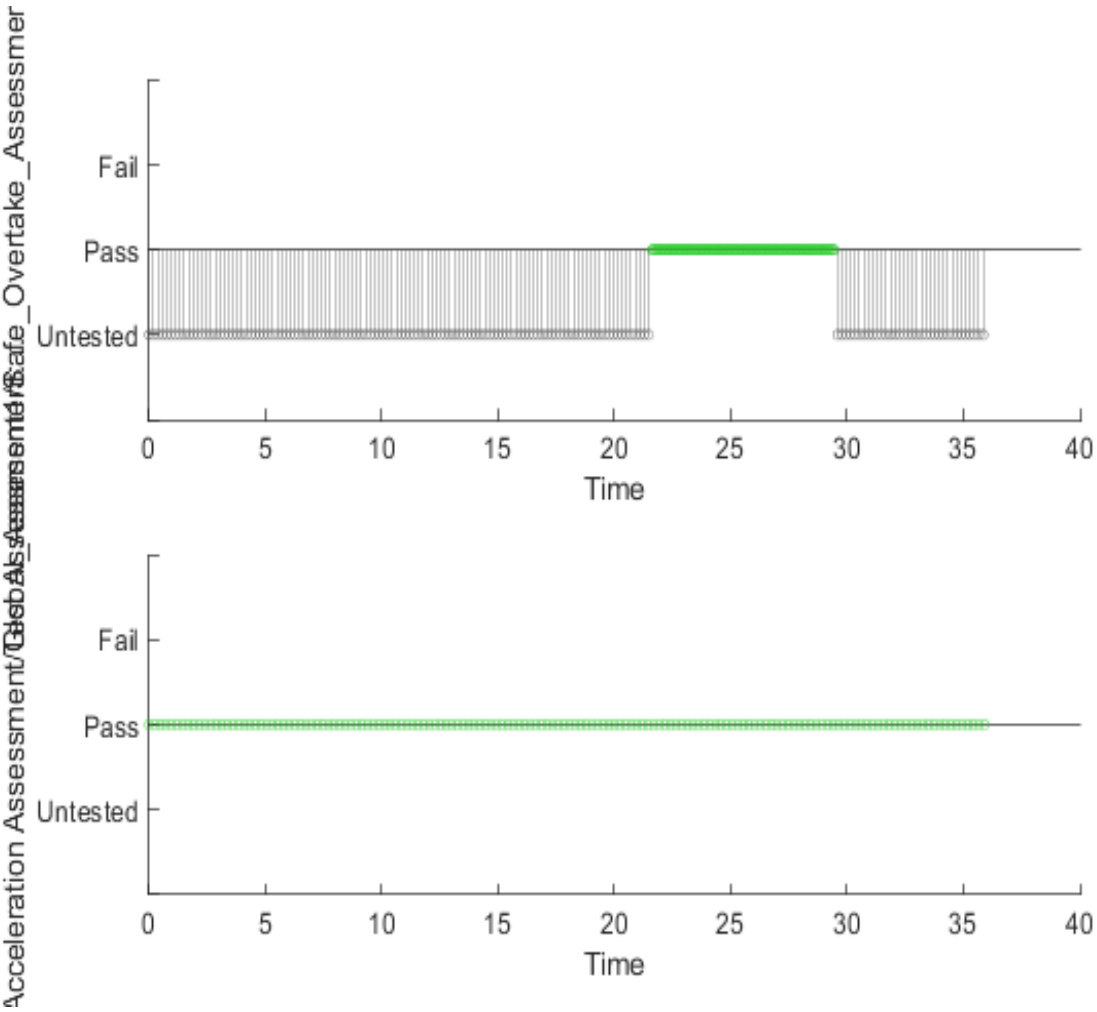
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

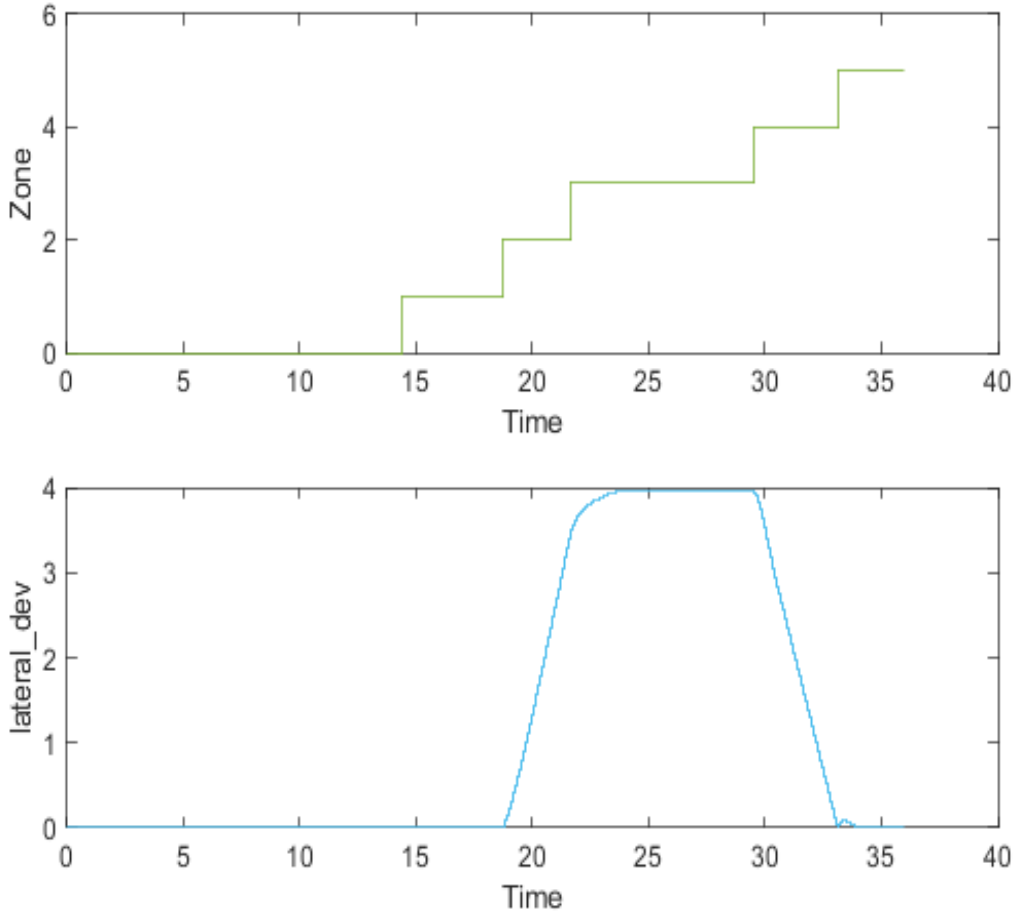
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	36
Checksum:	2617558918 3012509253 1936716657 2557864274

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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20° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:23:18

End Time: 26-May-2021 09:23:24
Outcome: Passed

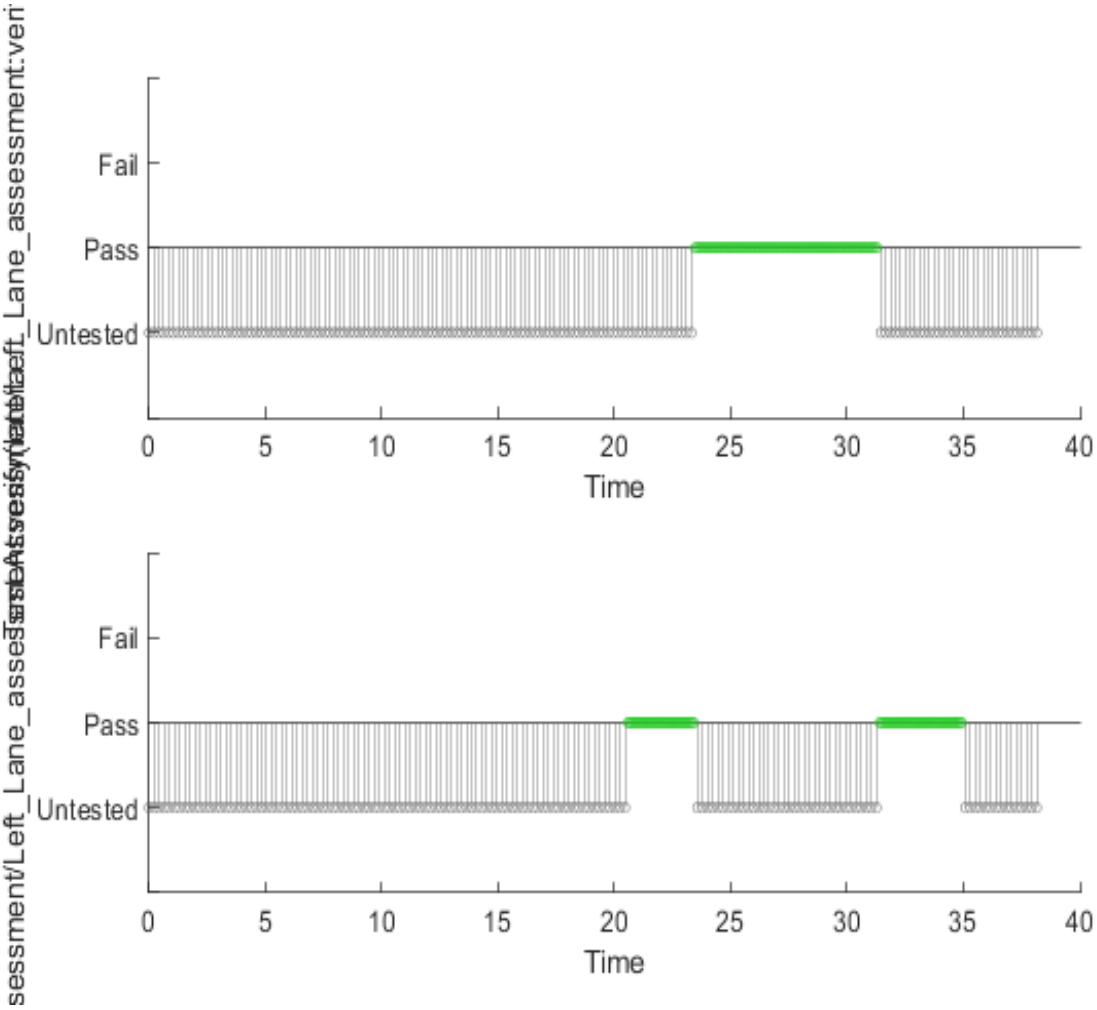
Test Case Information

Name: 20° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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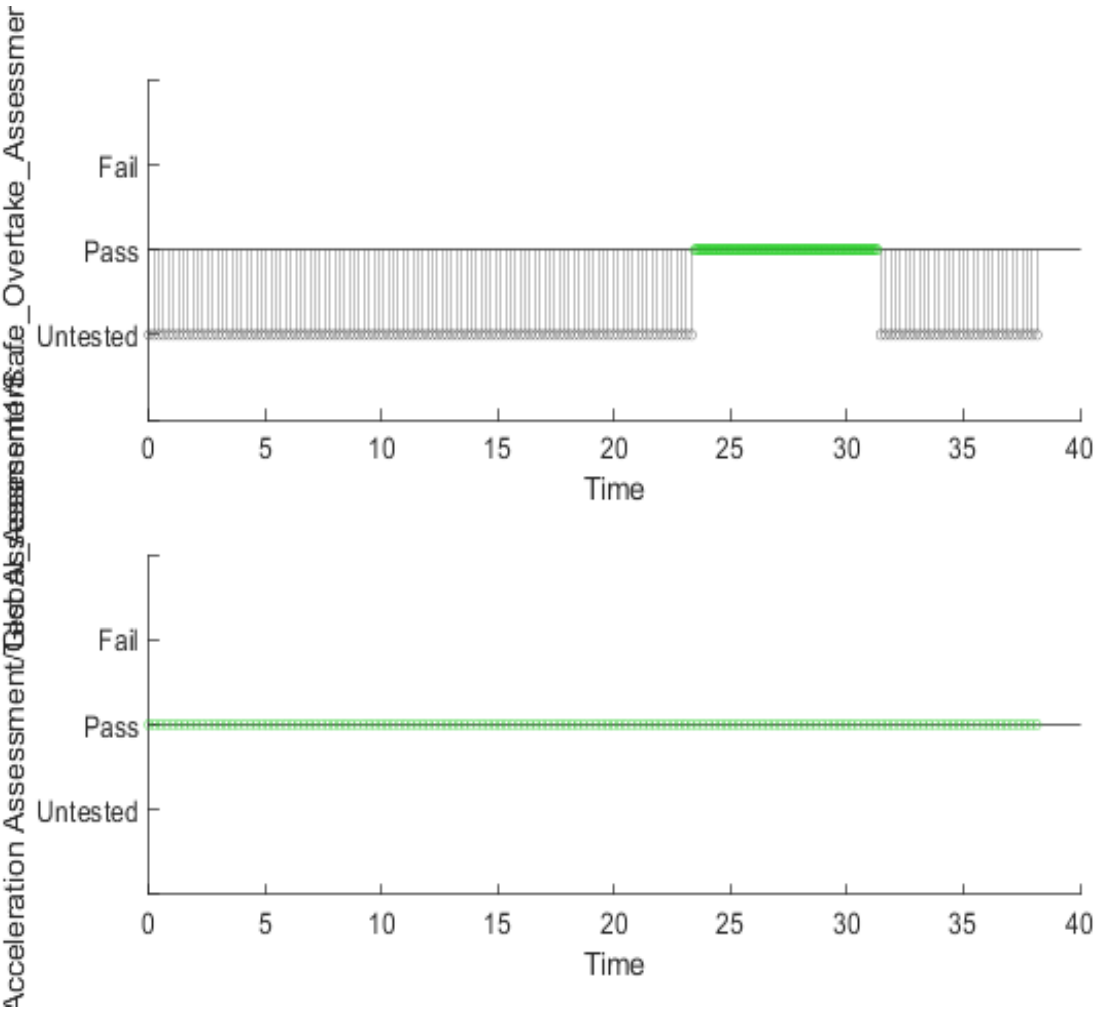
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

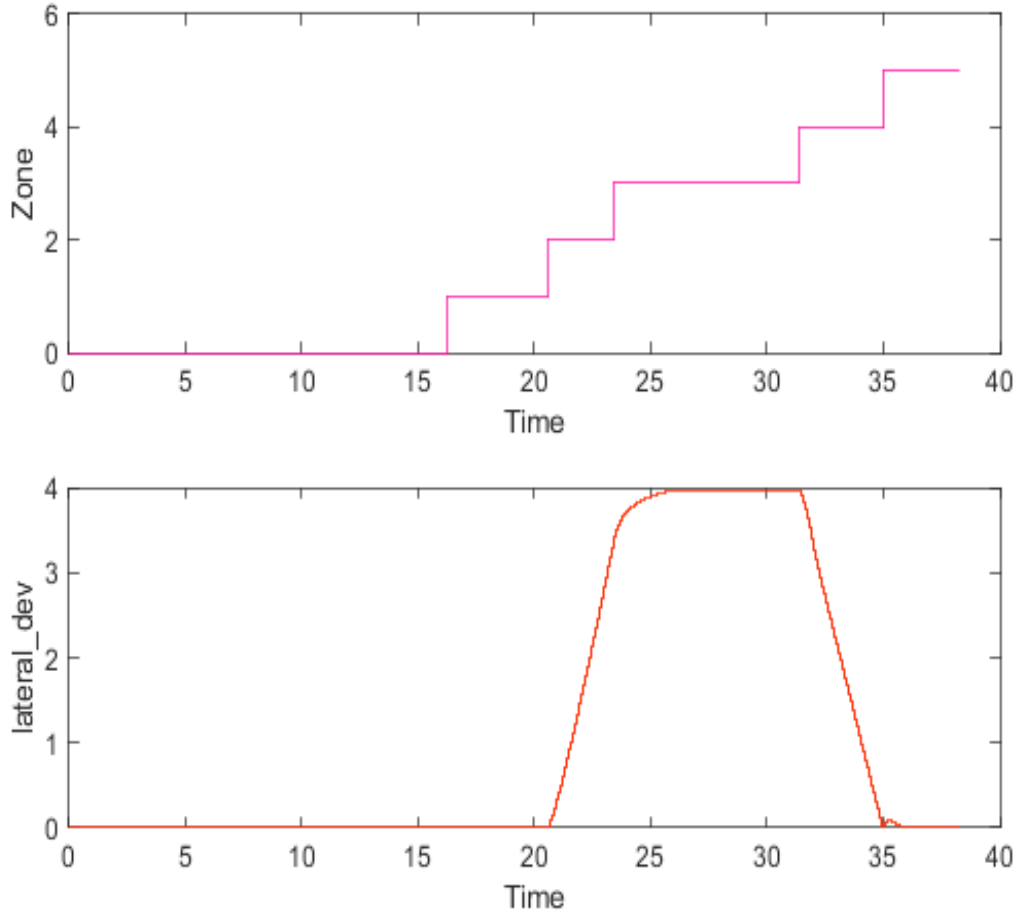
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	38.310766319665291
Checksum:	2362763310 2399675554 421837485 3980121959

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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45° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:23:24

End Time: 26-May-2021 09:23:32
Outcome: Passed

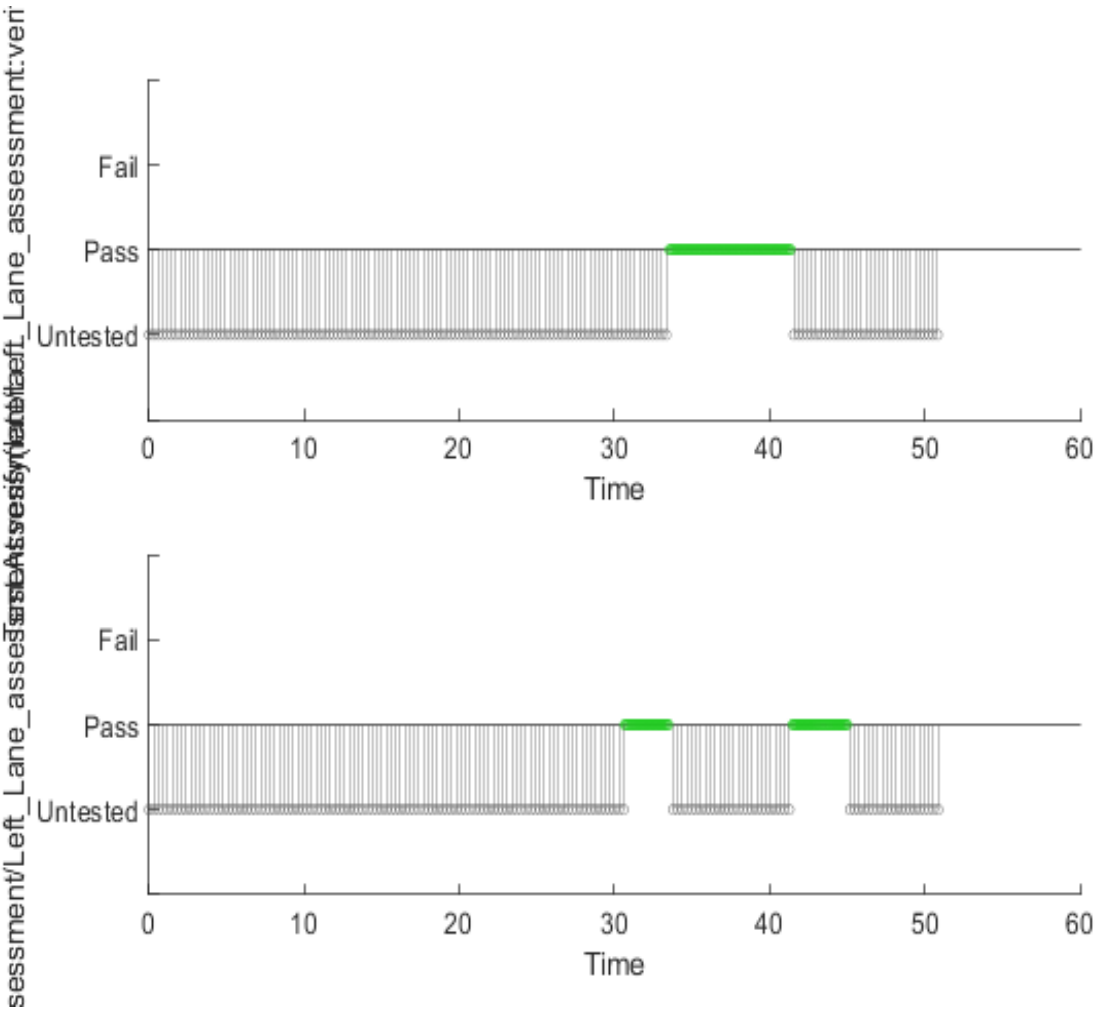
Test Case Information

Name: 45° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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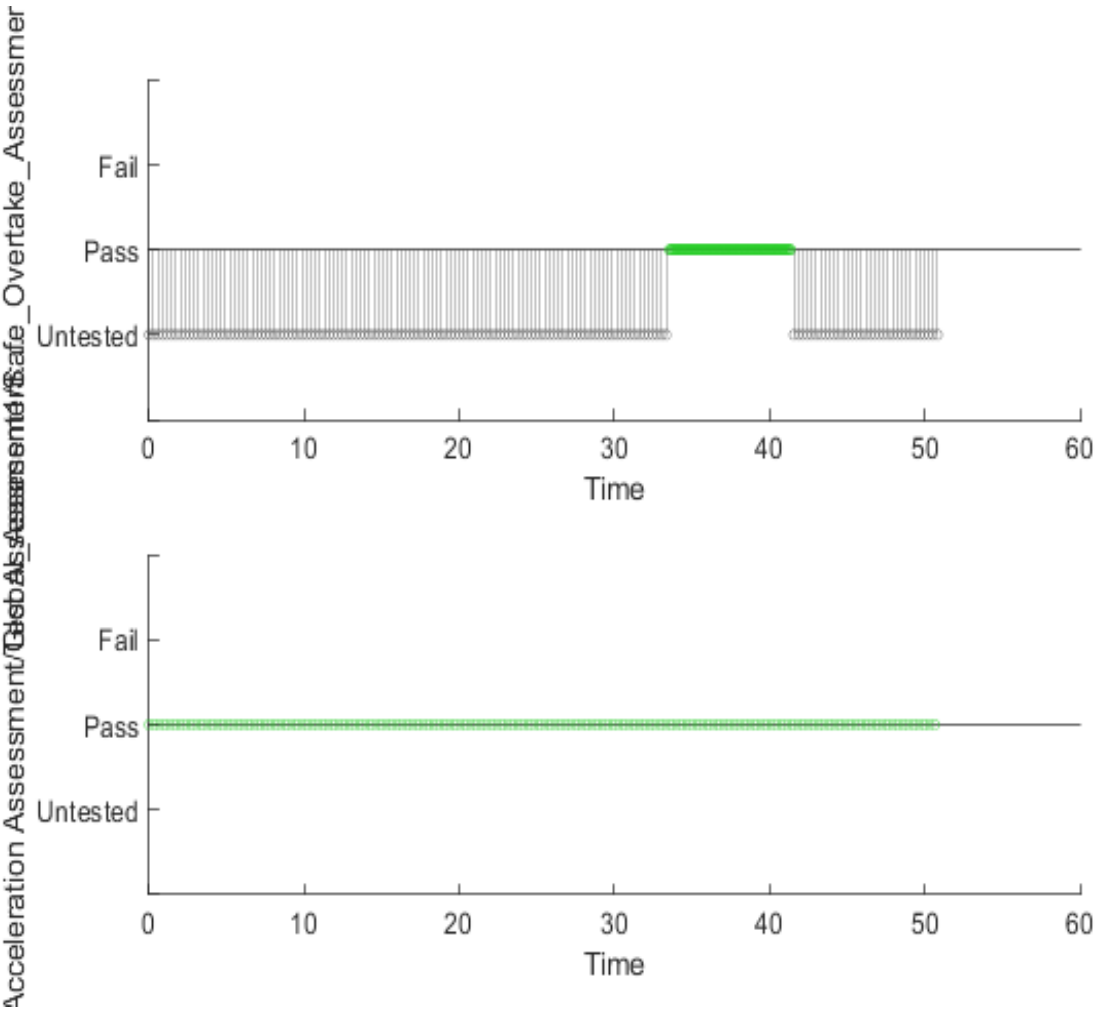
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

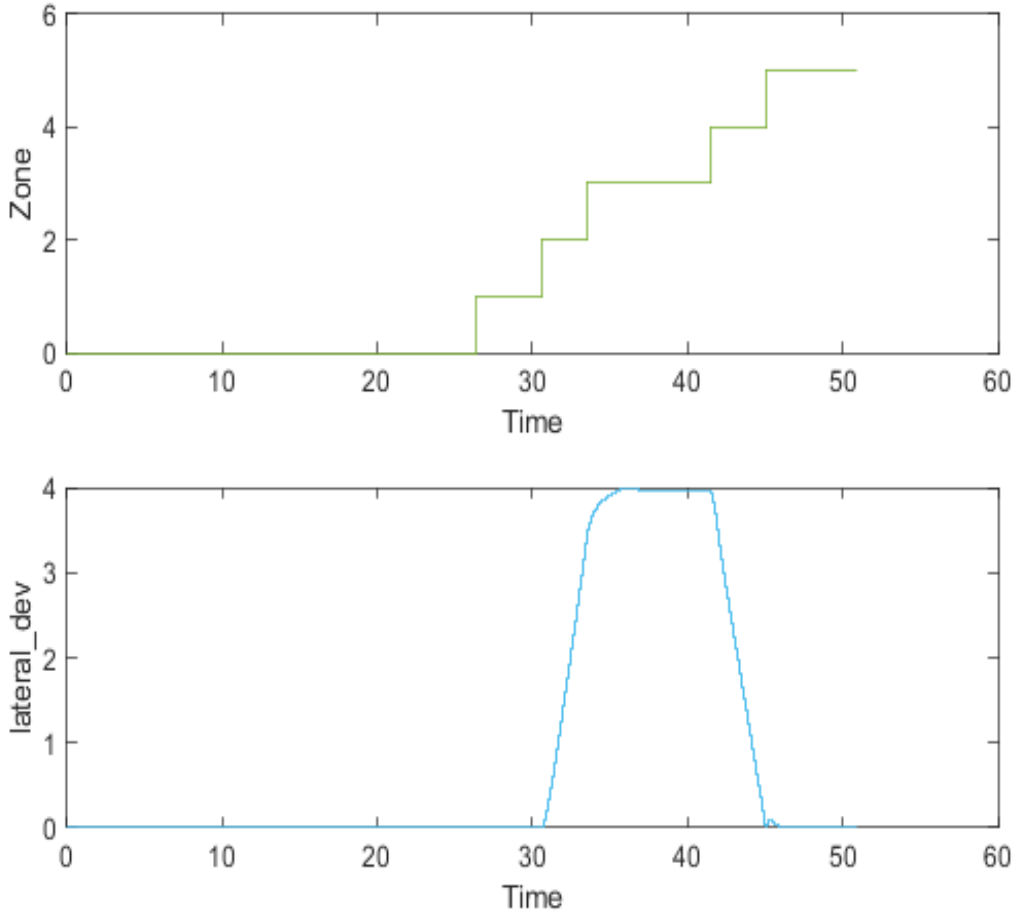
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	50.911688245431421
Checksum:	3791723175 3140338622 53927186 3813431970

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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70° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:23:32

End Time: 26-May-2021 09:23:50
Outcome: Passed

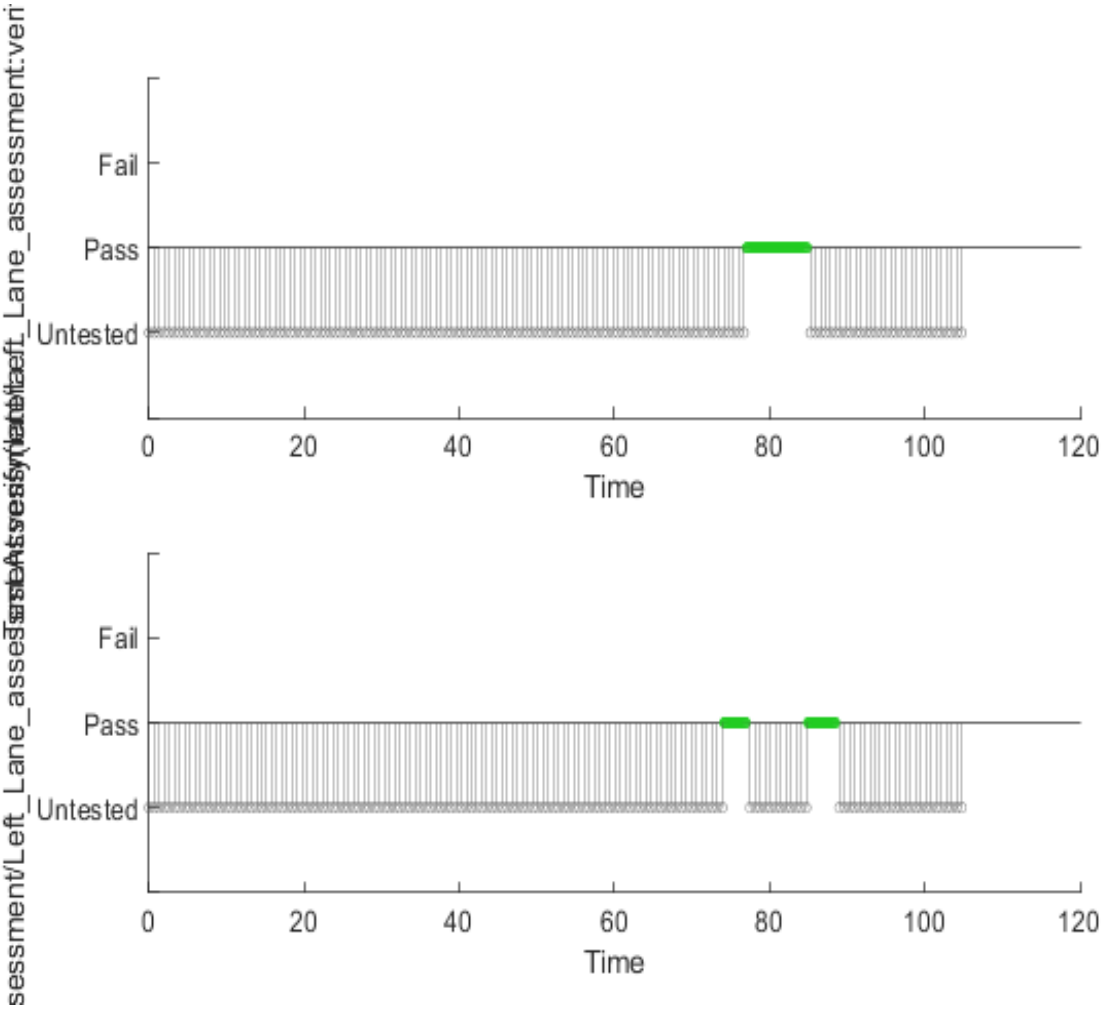
Test Case Information

Name: 70° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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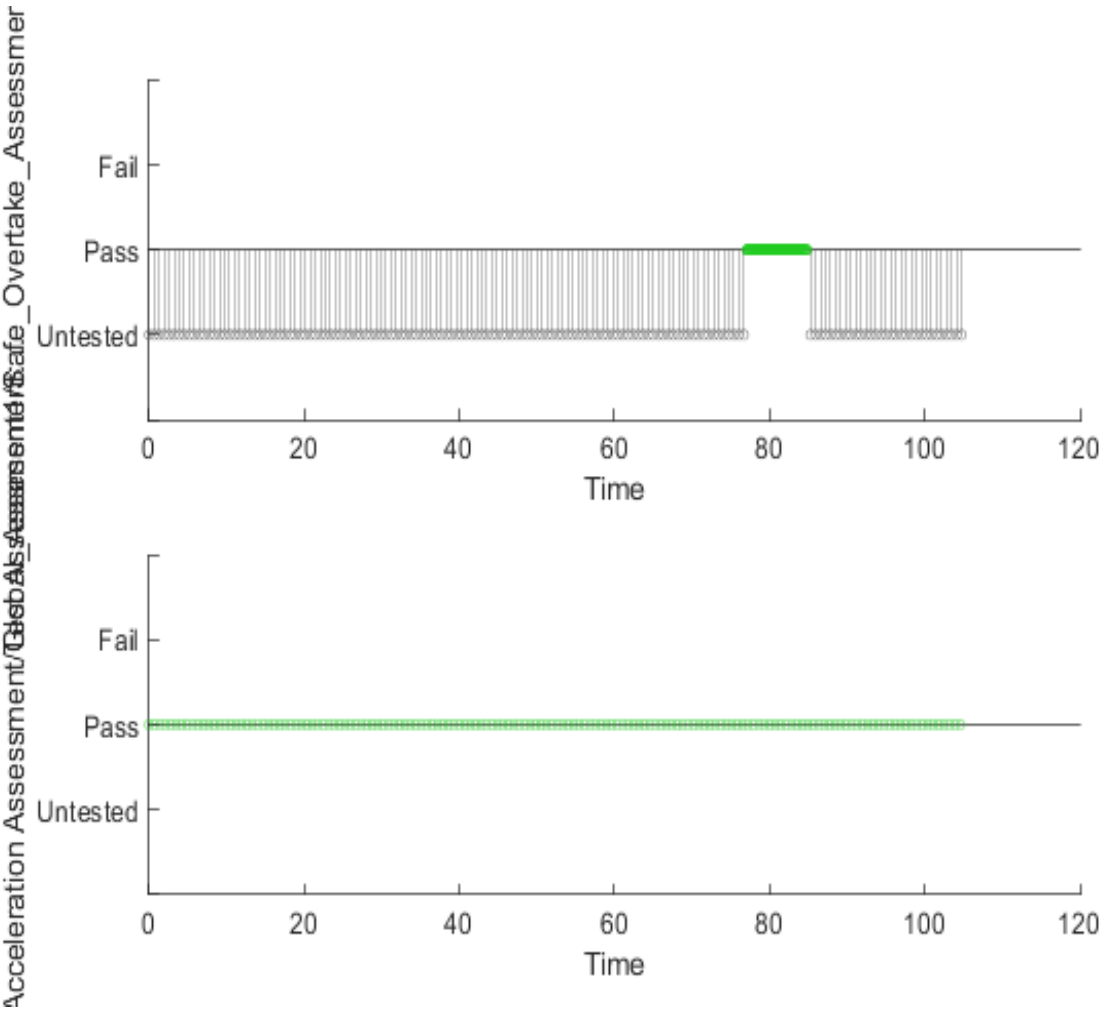
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

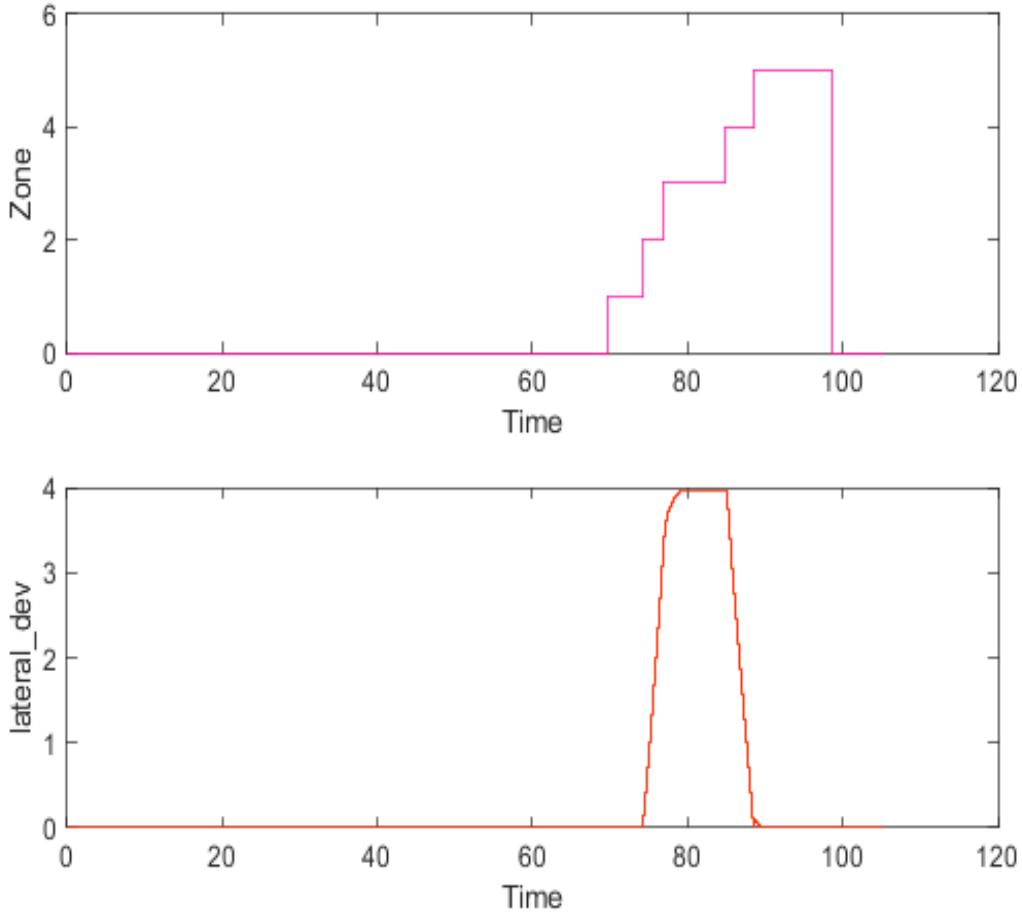
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	105.24080797865437
Checksum:	326648992 3629909124 1123952596 929860291

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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90° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:23:50

End Time: 26-May-2021 09:23:57
Outcome: Passed

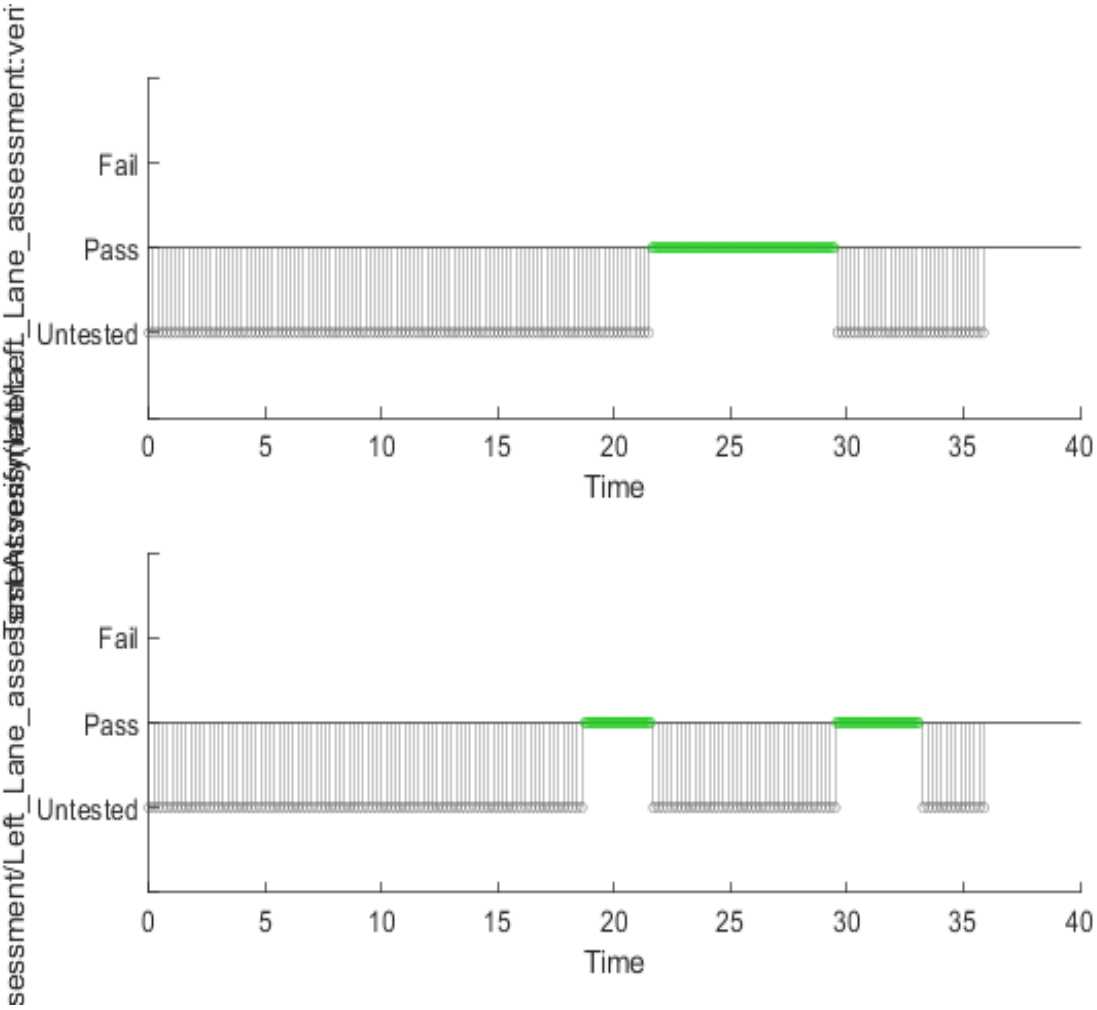
Test Case Information

Name: 90° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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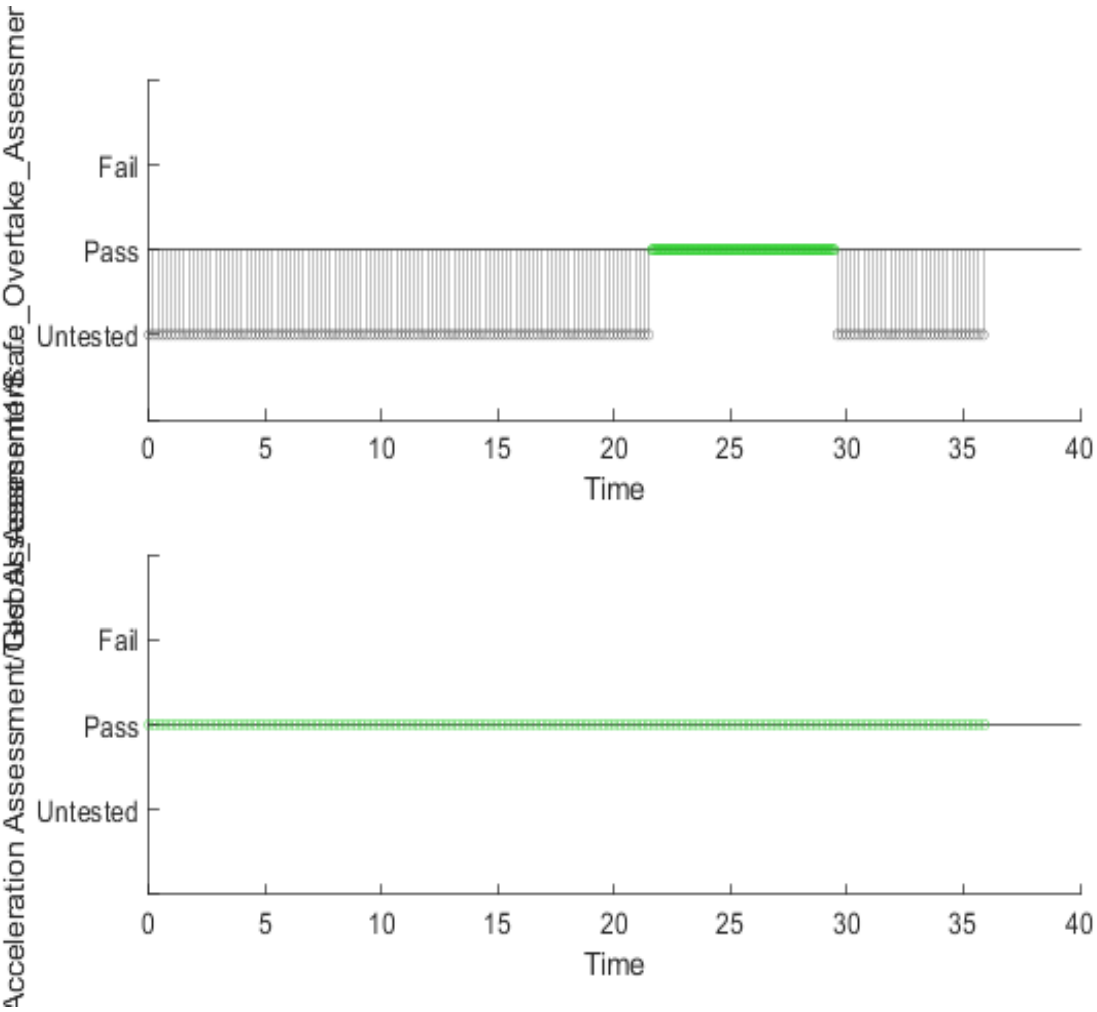
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

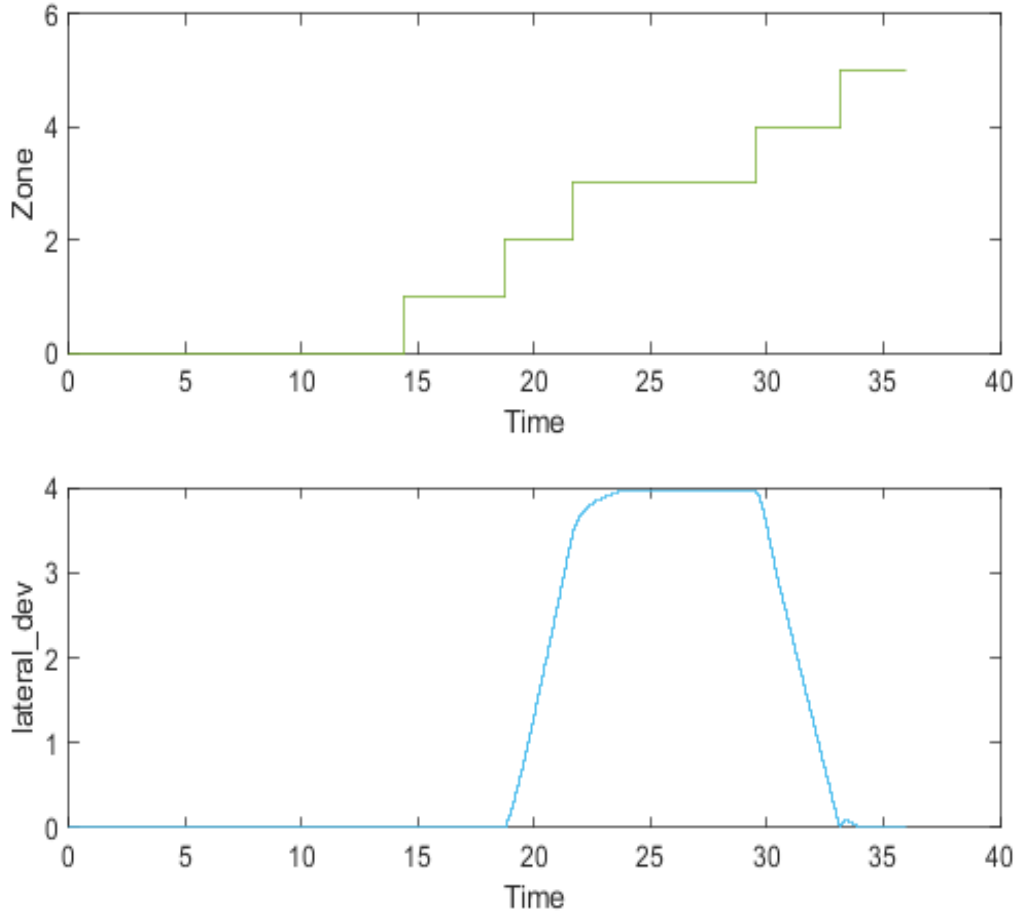
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	36
Checksum:	2617558918 3012509253 1936716657 2557864274

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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110° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:23:57

End Time: 26-May-2021 09:24:04
Outcome: Passed

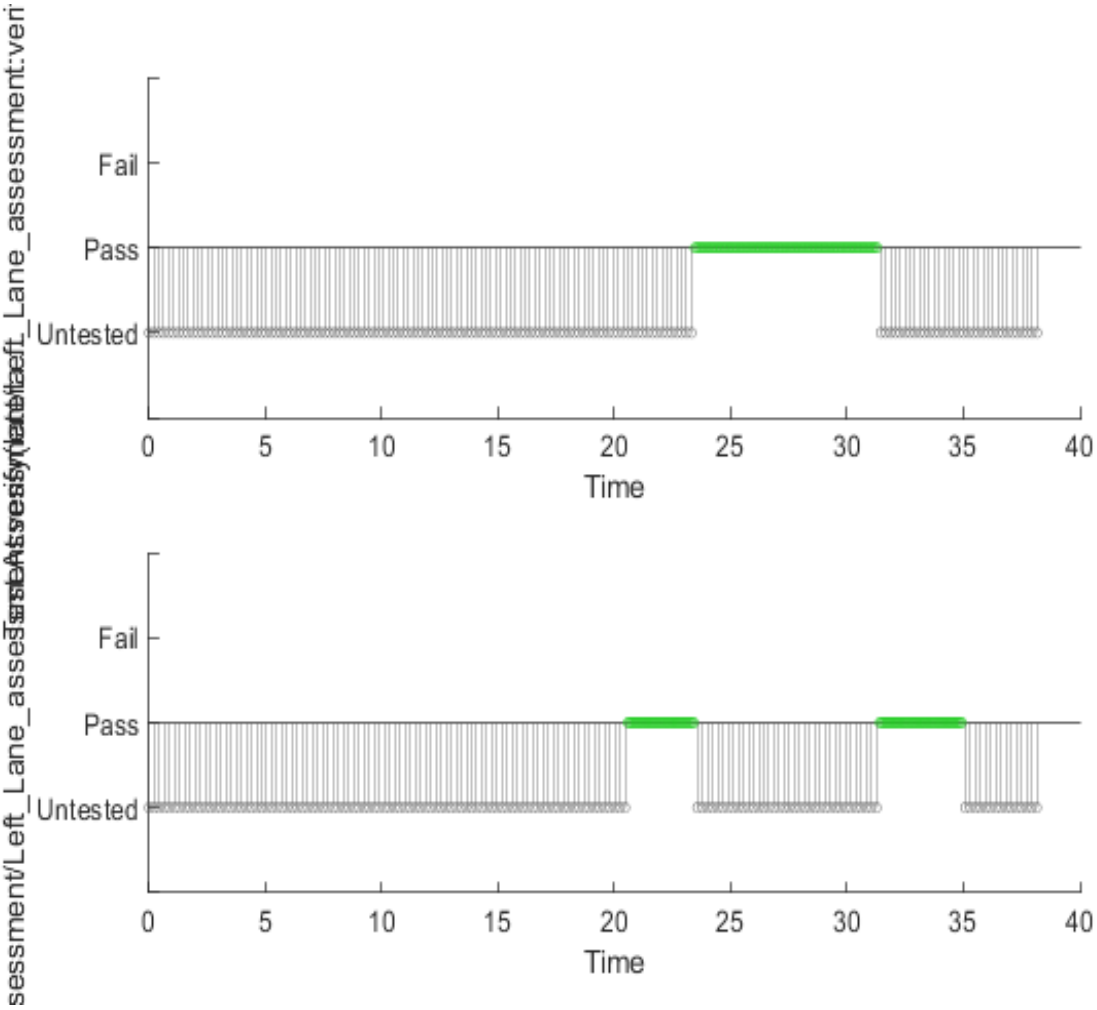
Test Case Information

Name: 110° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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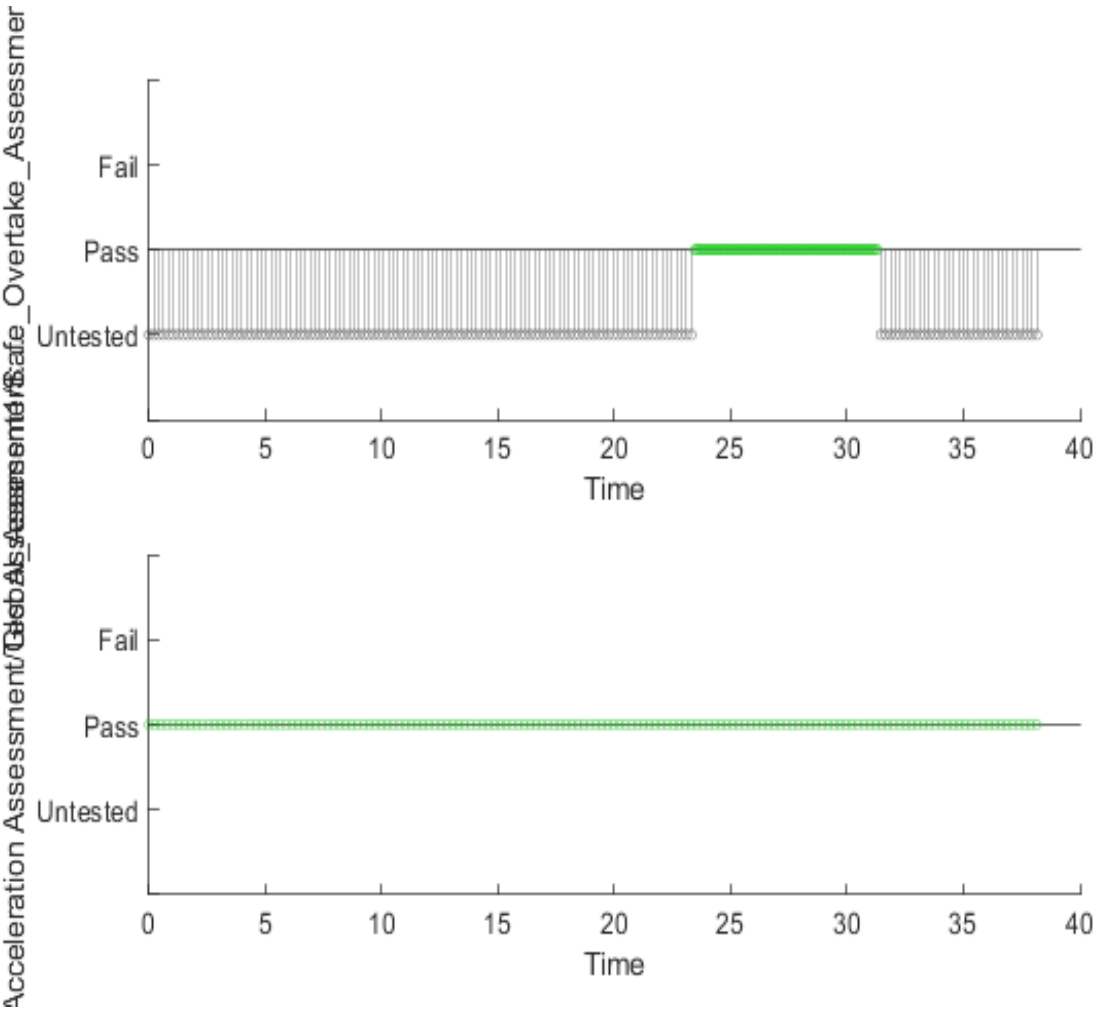
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

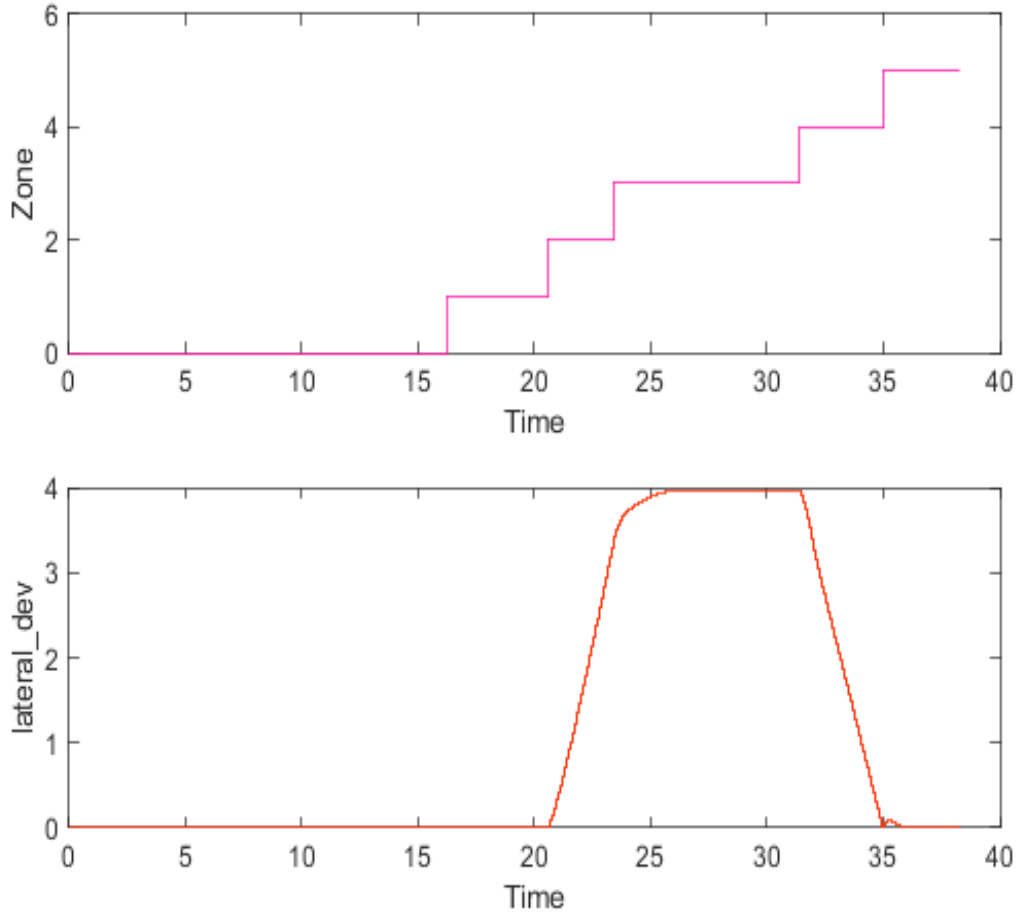
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	38.310766319665291
Checksum:	2362763310 2399675554 421837485 3980121959

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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135° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:24:04

End Time: 26-May-2021 09:24:14
Outcome: Passed

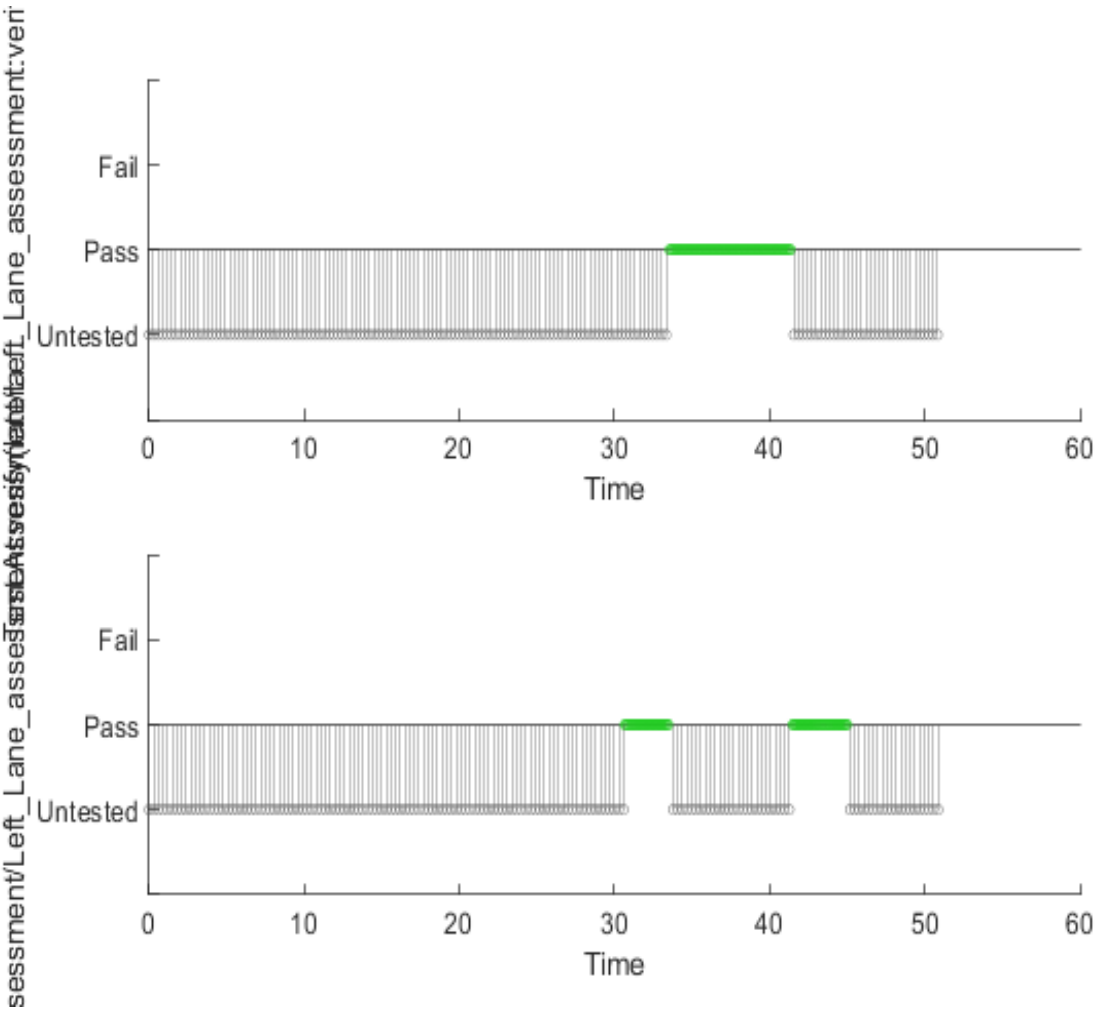
Test Case Information

Name: 135° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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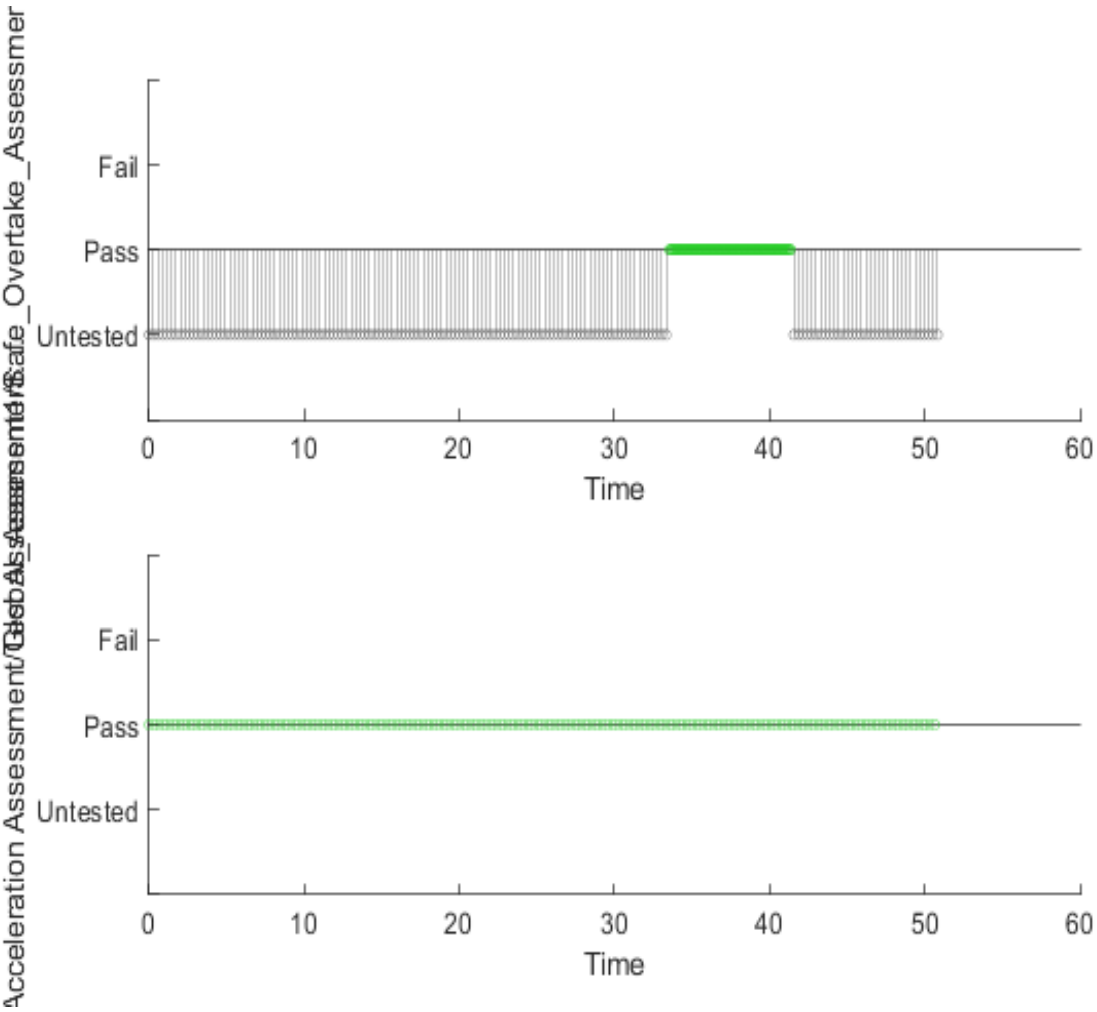
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

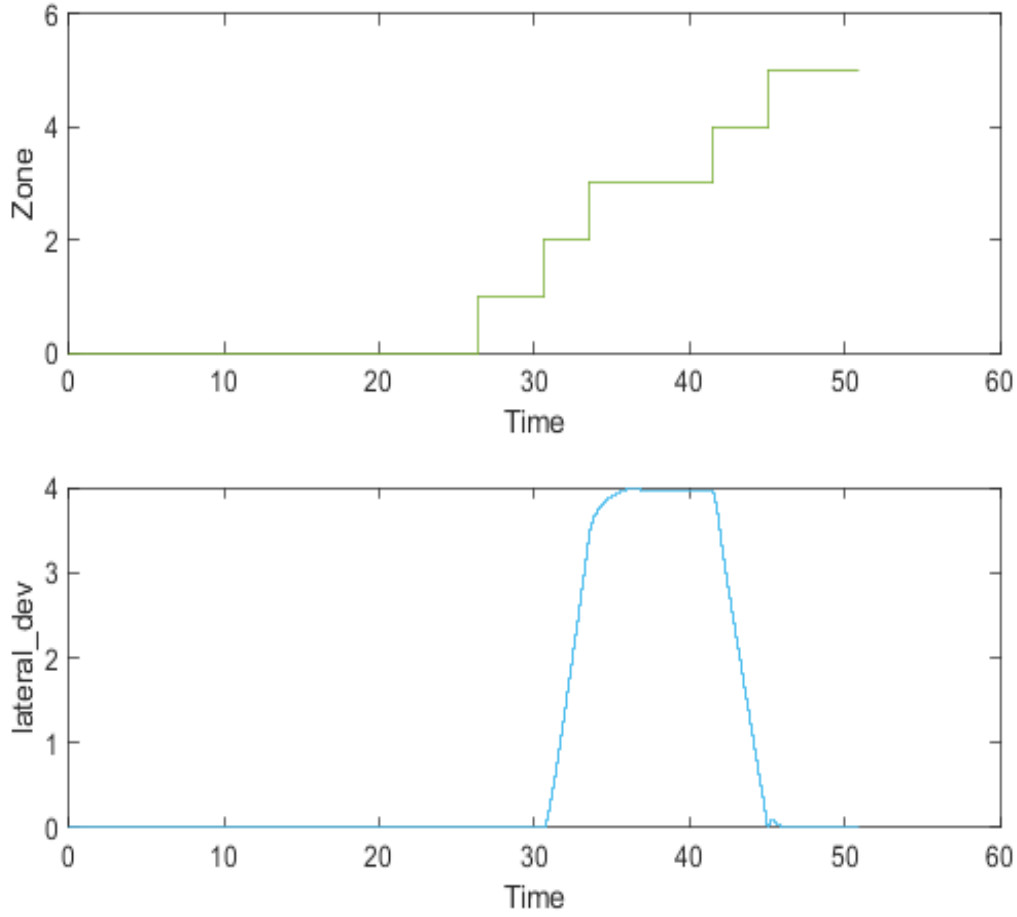
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	50.911688245431421
Checksum:	3791723175 3140338622 53927186 3813431970

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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160° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:24:14

End Time: 26-May-2021 09:24:28
Outcome: Passed

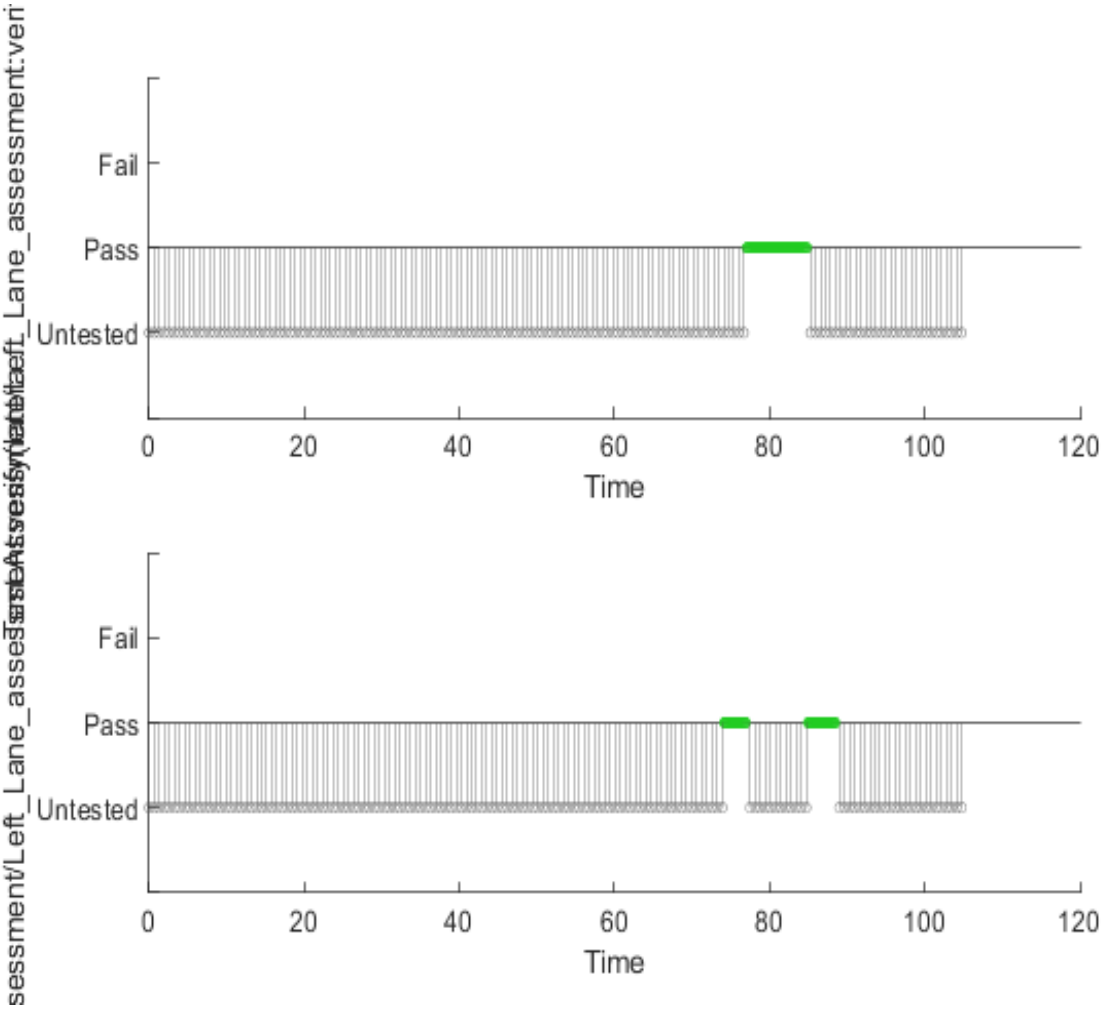
Test Case Information

Name: 160° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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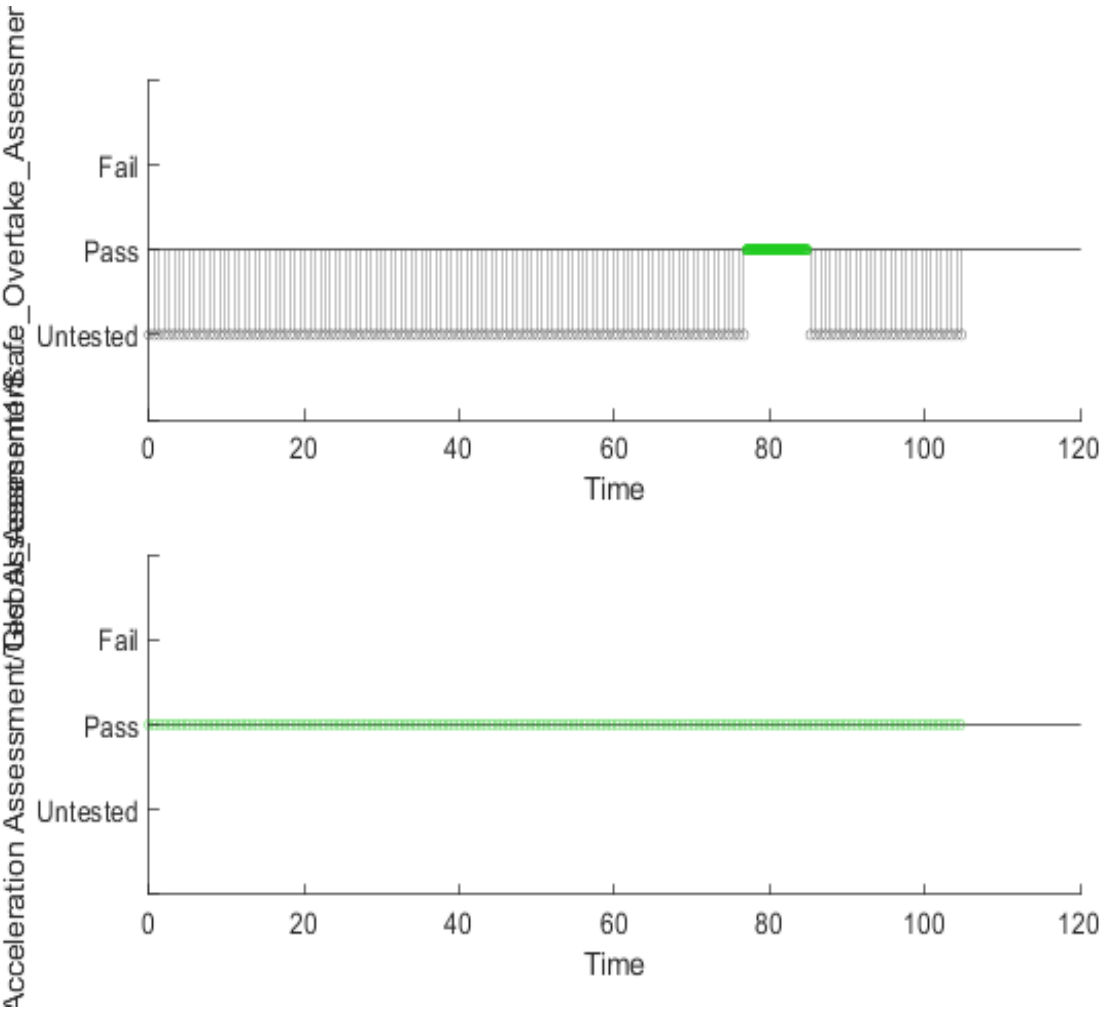
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

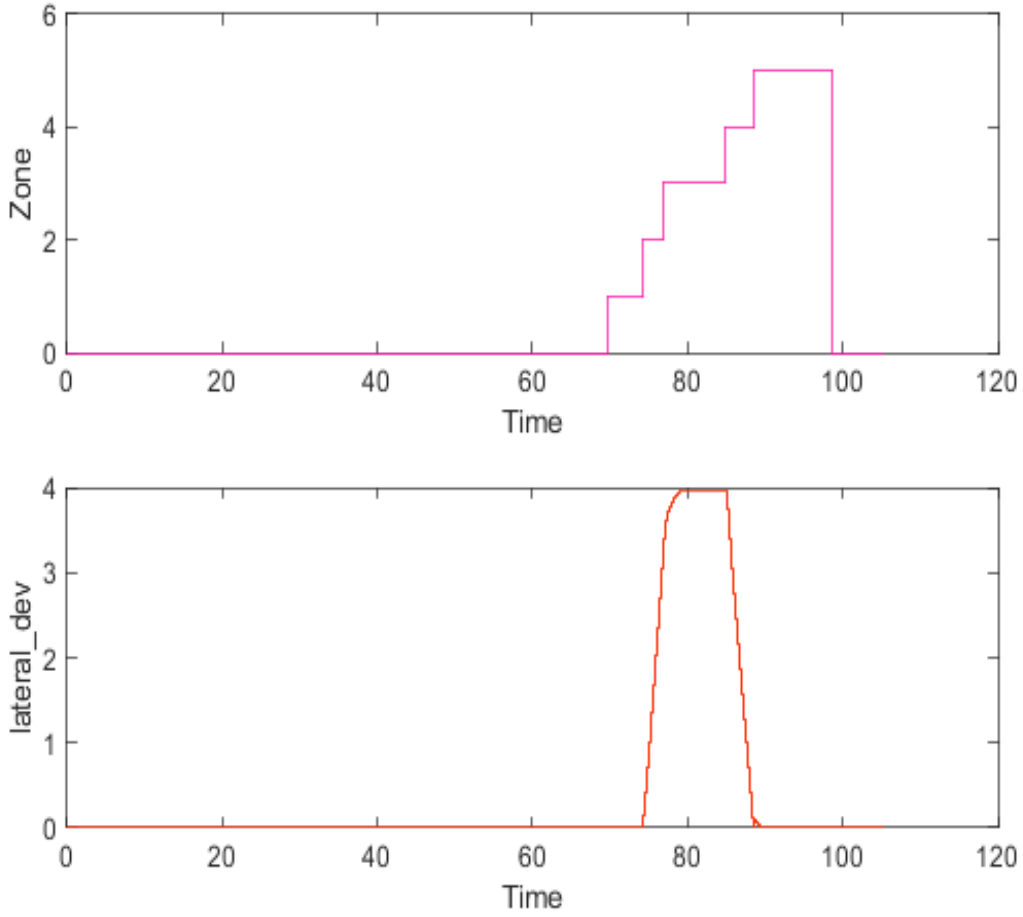
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	105.24080797865437
Checksum:	326648992 3629909124 1123952596 929860291

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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180° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:24:28

End Time: 26-May-2021 09:24:35
Outcome: Passed

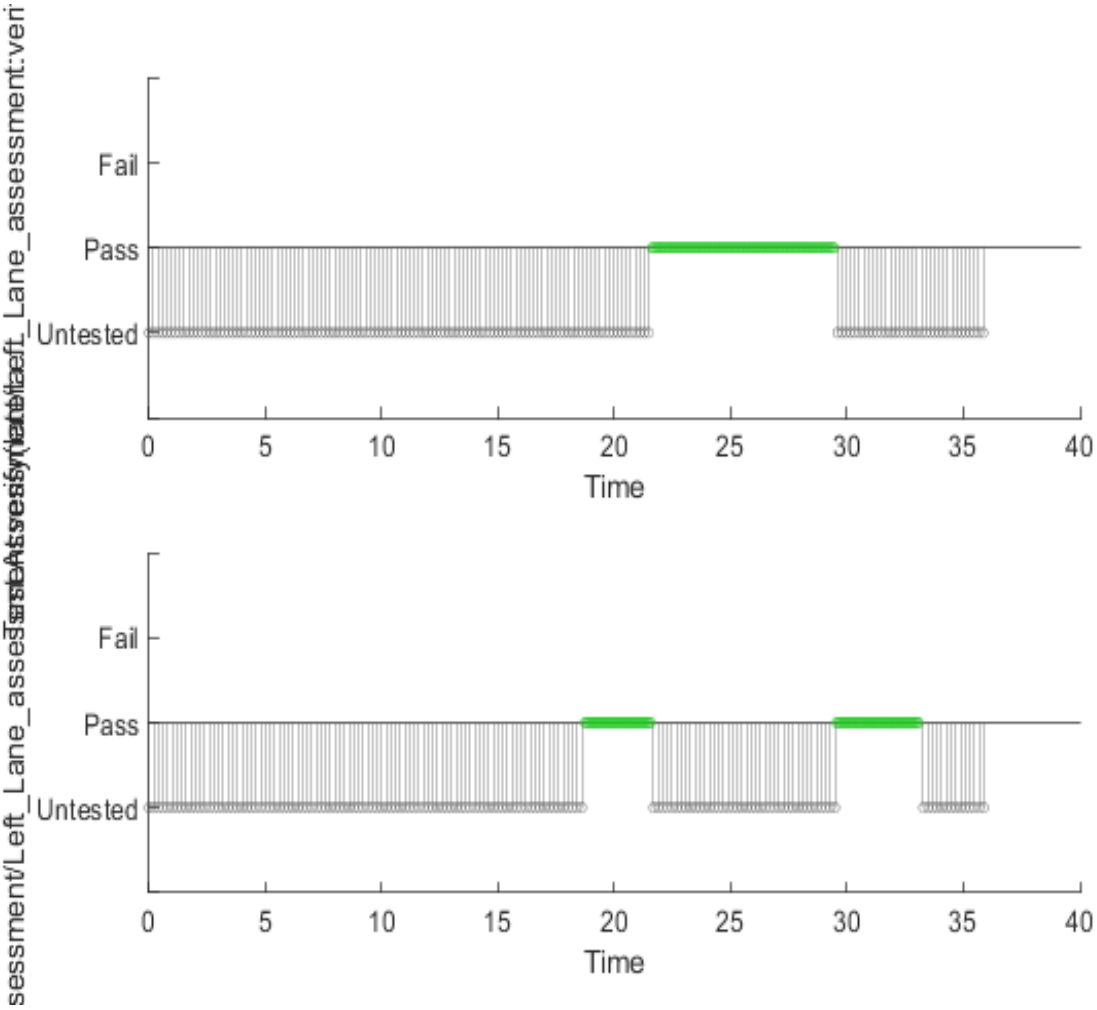
Test Case Information

Name: 180° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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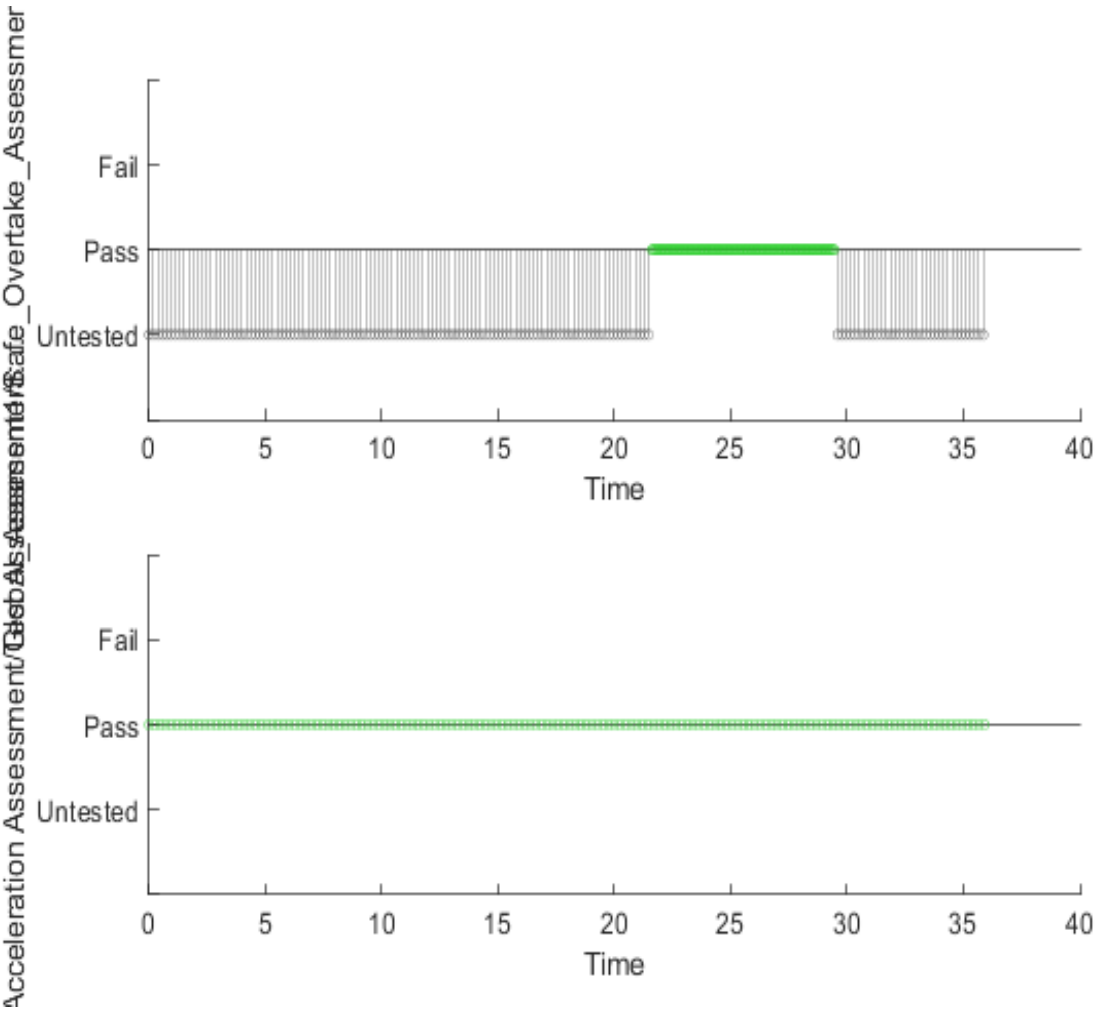
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

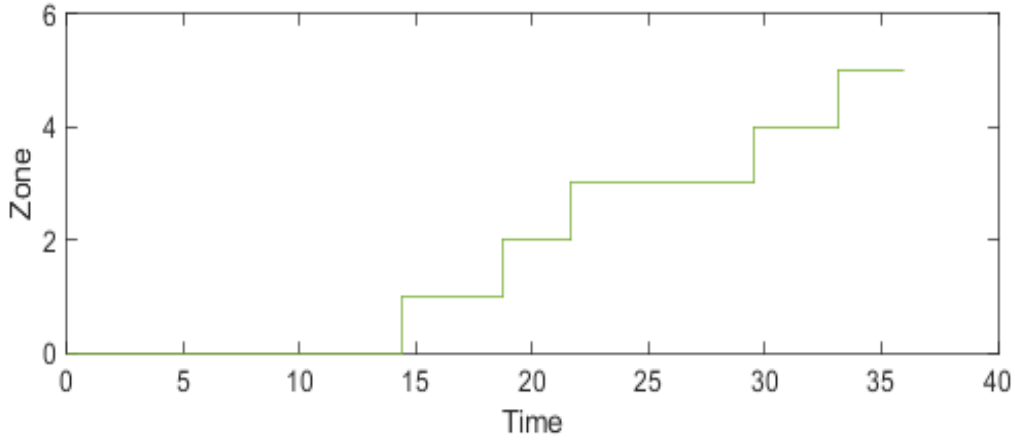
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

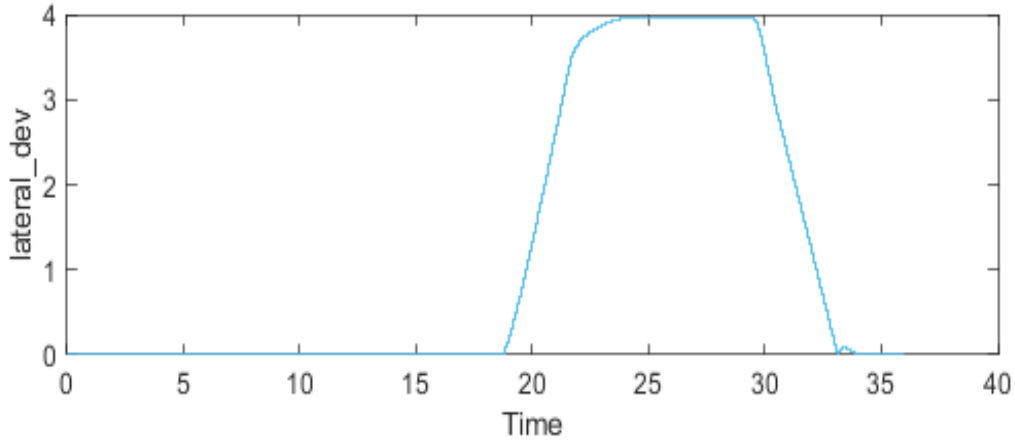
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	36
Checksum:	2617558918 3012509253 1936716657 2557864274

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union





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-20° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:24:35

End Time: 26-May-2021 09:24:43
Outcome: Passed

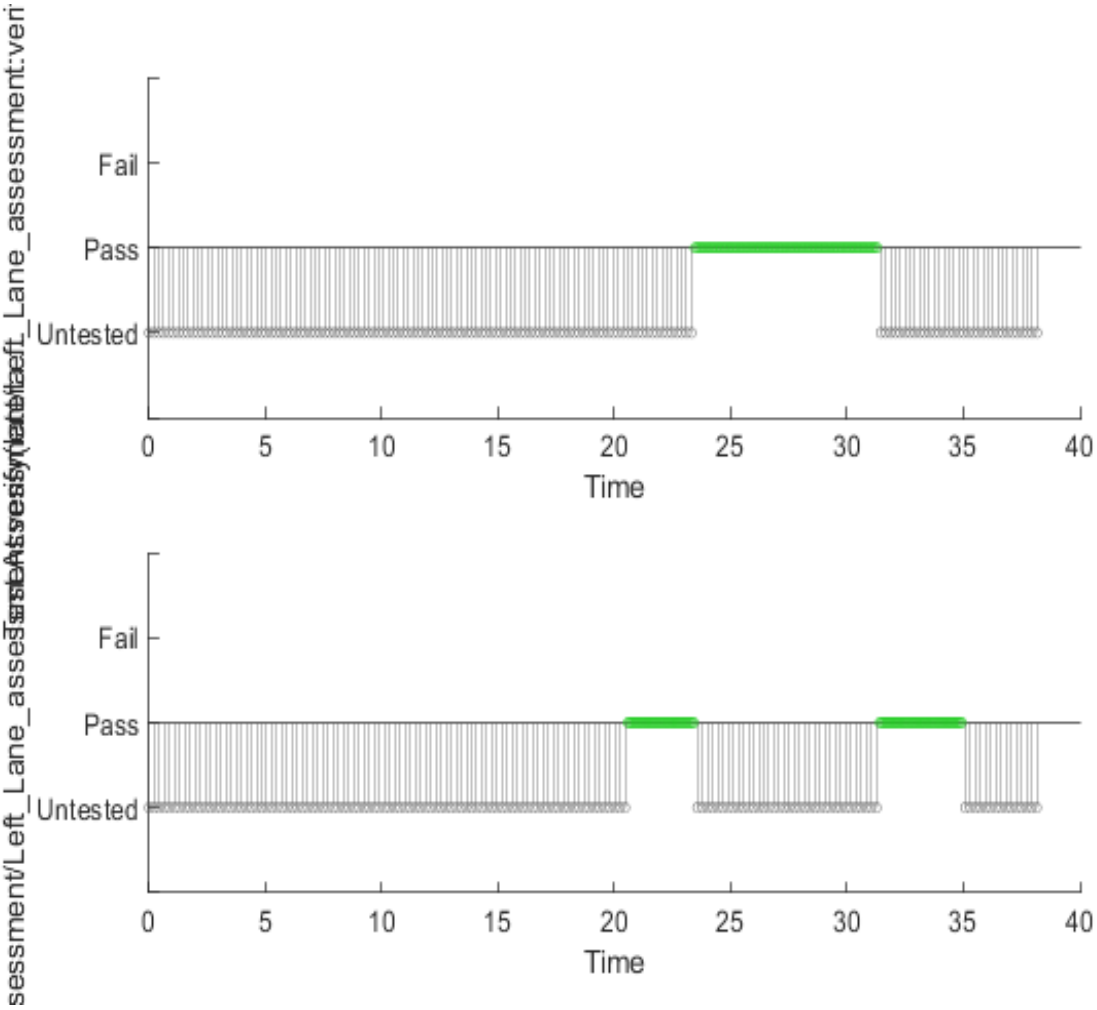
Test Case Information

Name: -20° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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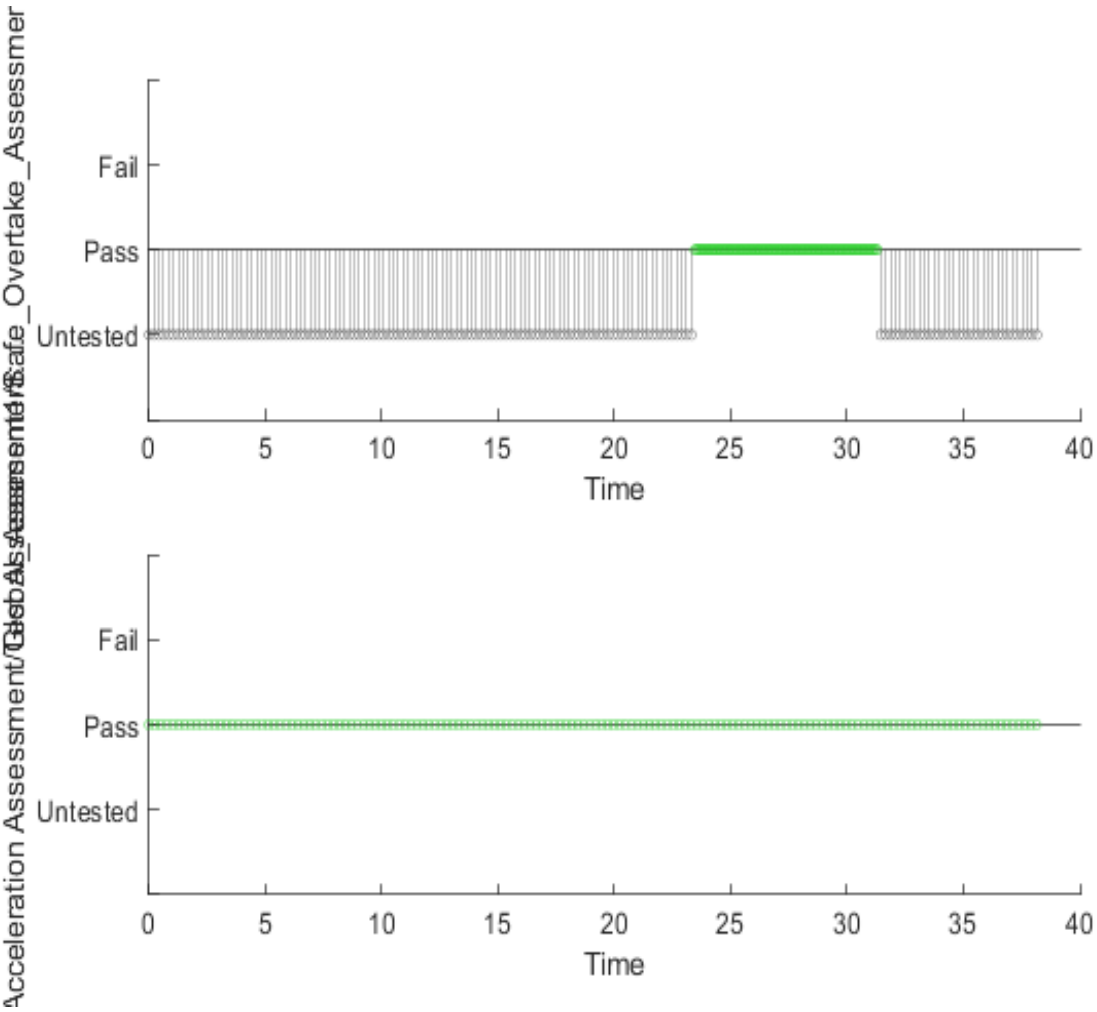
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

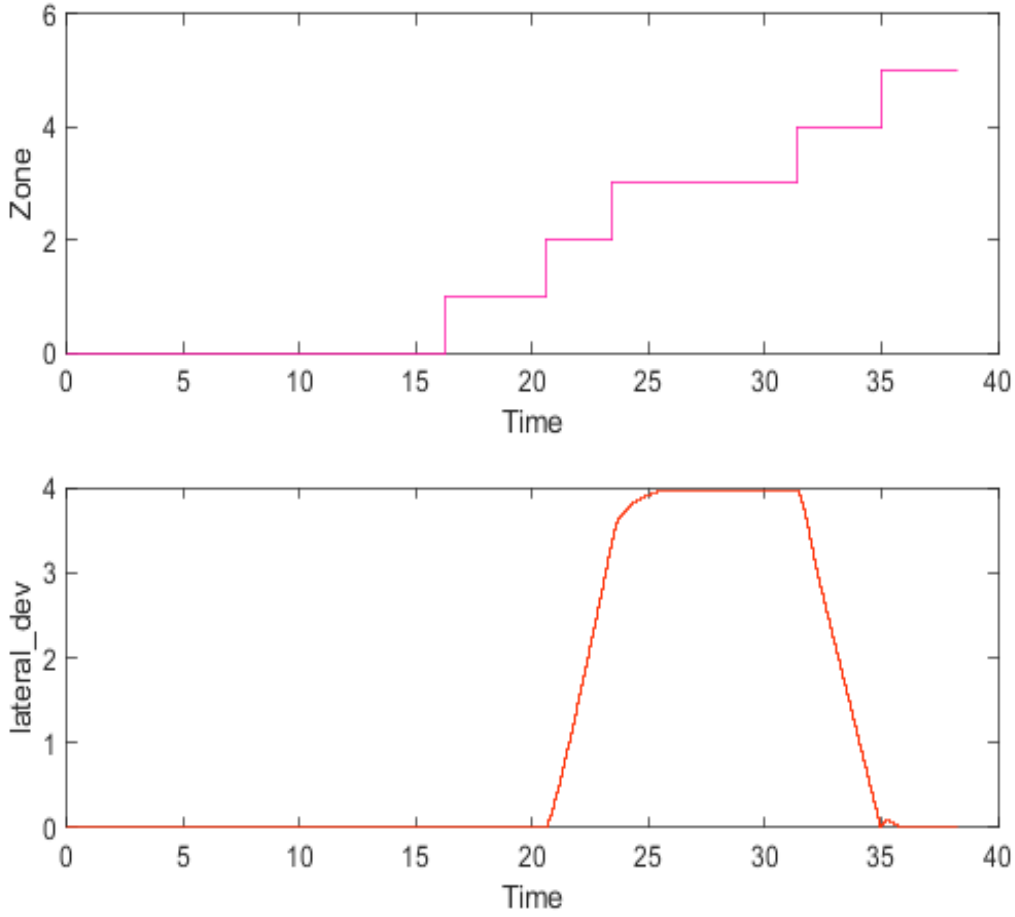
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	38.310766319665291
Checksum:	2362763310 2399675554 421837485 3980121959

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-45° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:24:43

End Time: 26-May-2021 09:24:52
Outcome: Passed

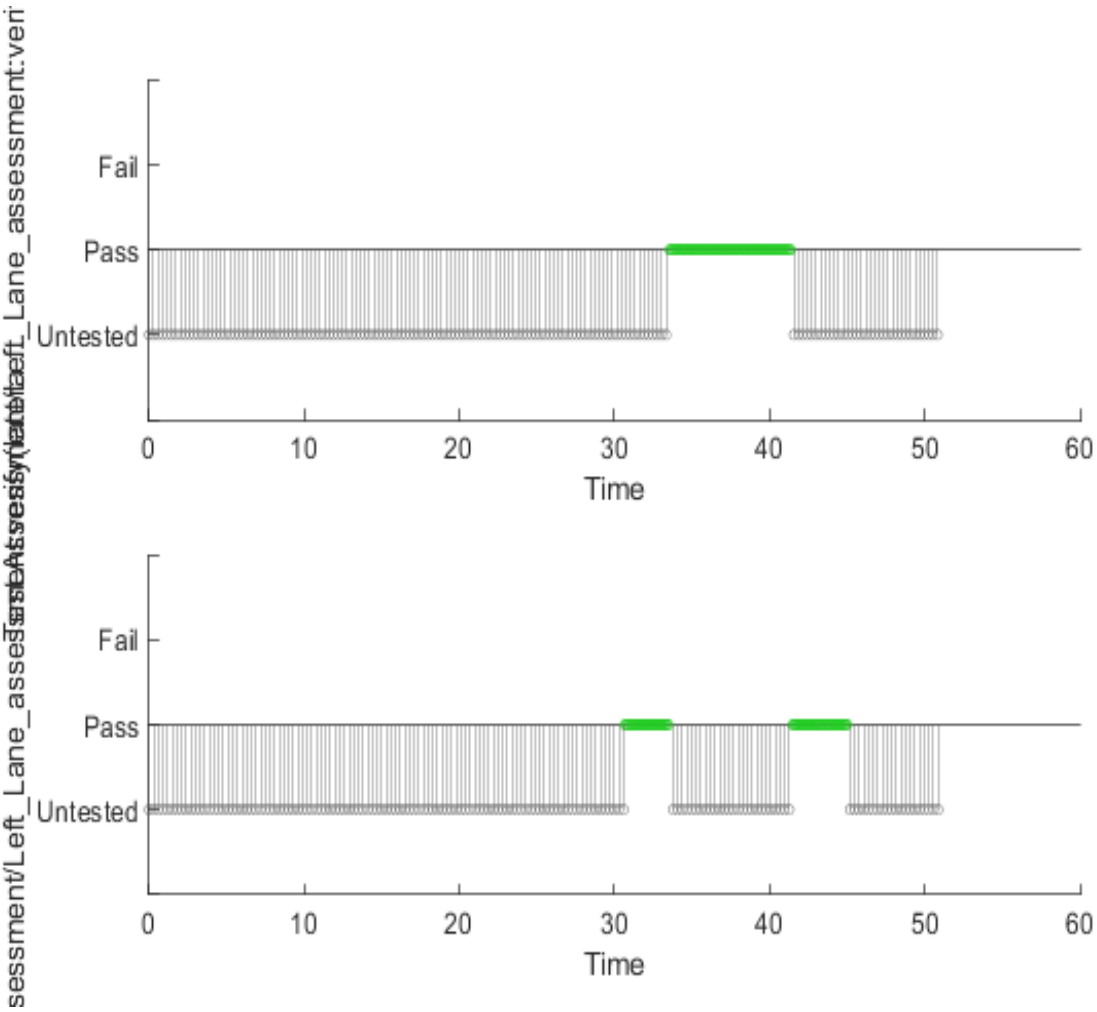
Test Case Information

Name: -45° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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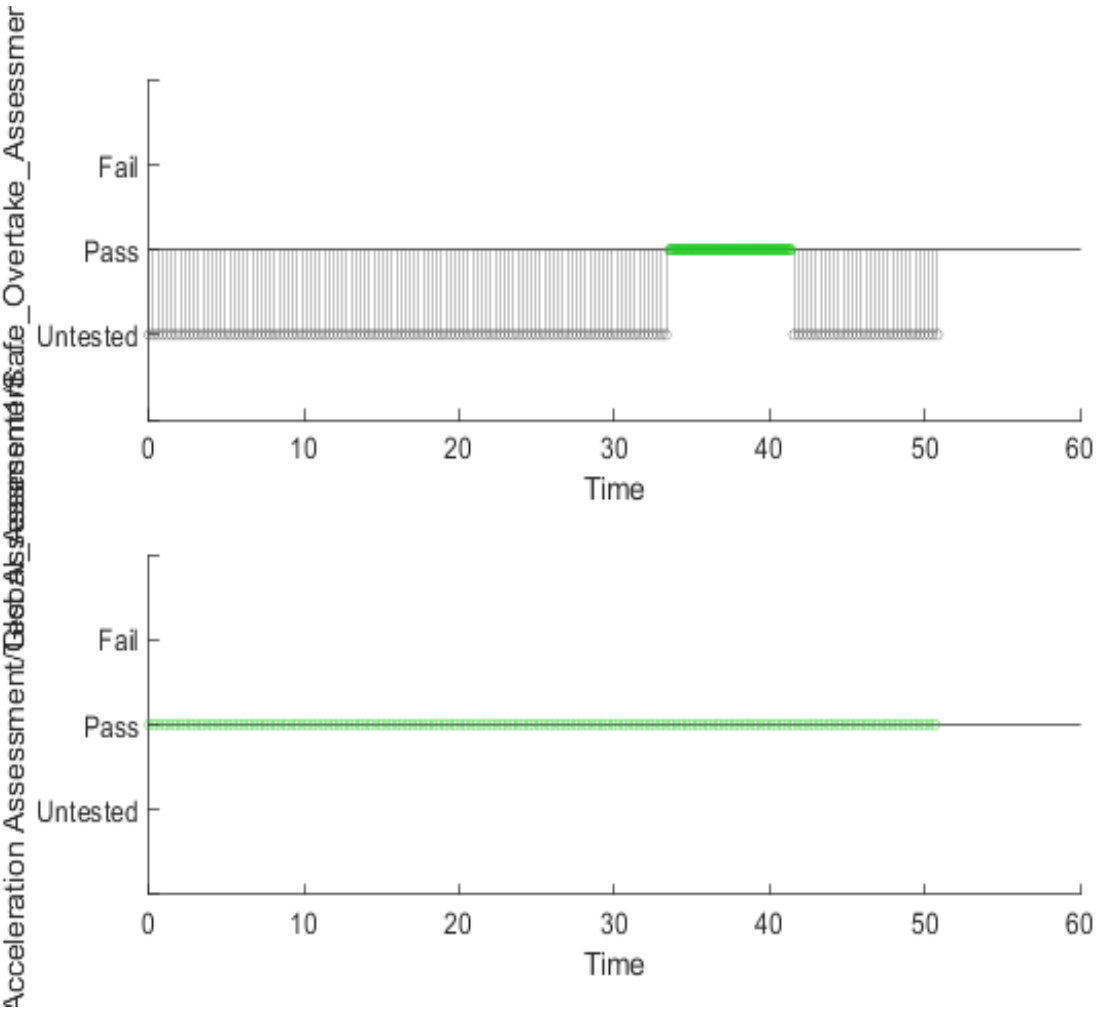
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

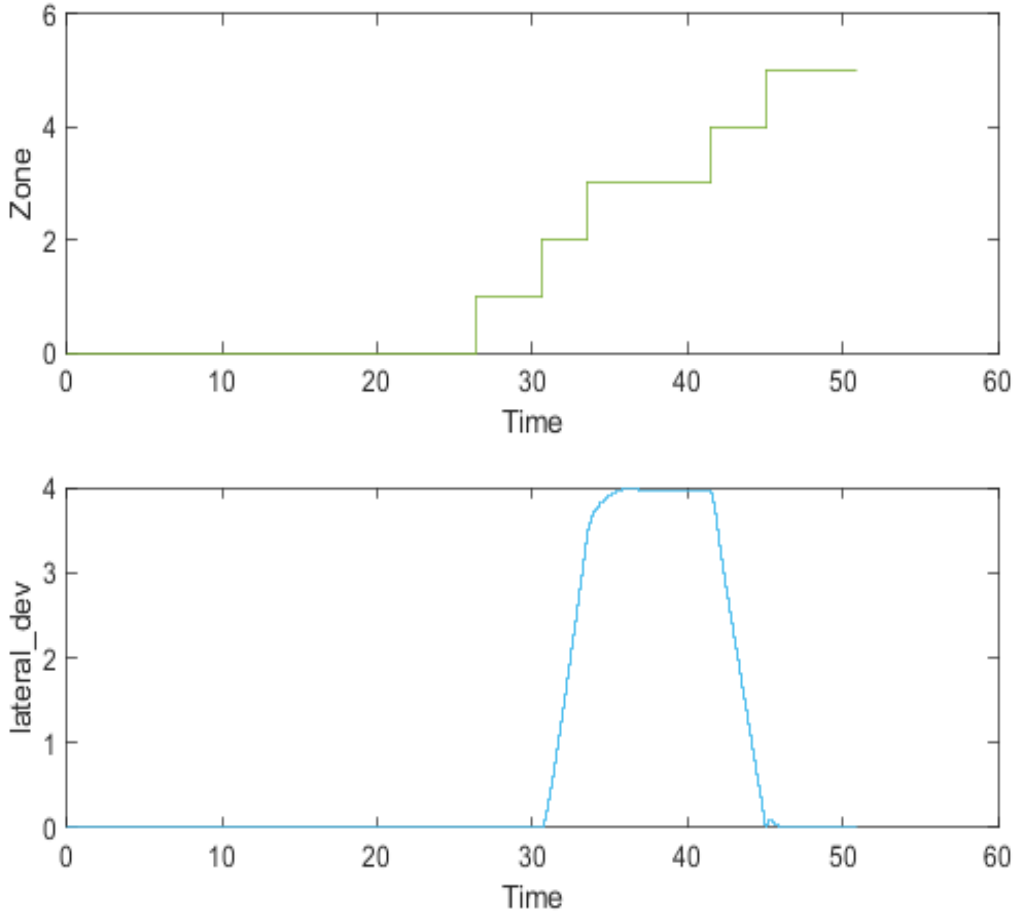
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	50.911688245431421
Checksum:	3791723175 3140338622 53927186 3813431970

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-70° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:24:52

End Time: 26-May-2021 09:25:12
Outcome: Passed

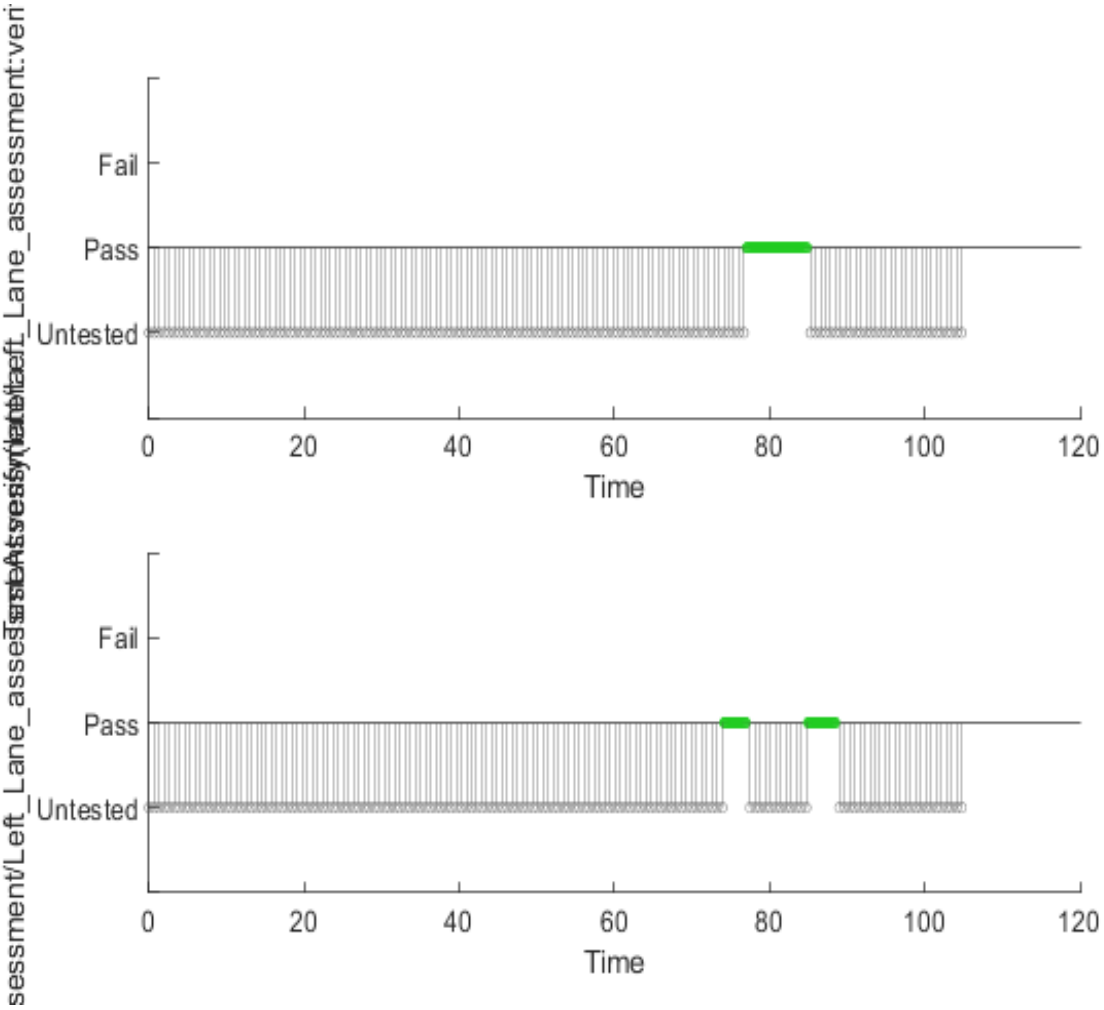
Test Case Information

Name: -70° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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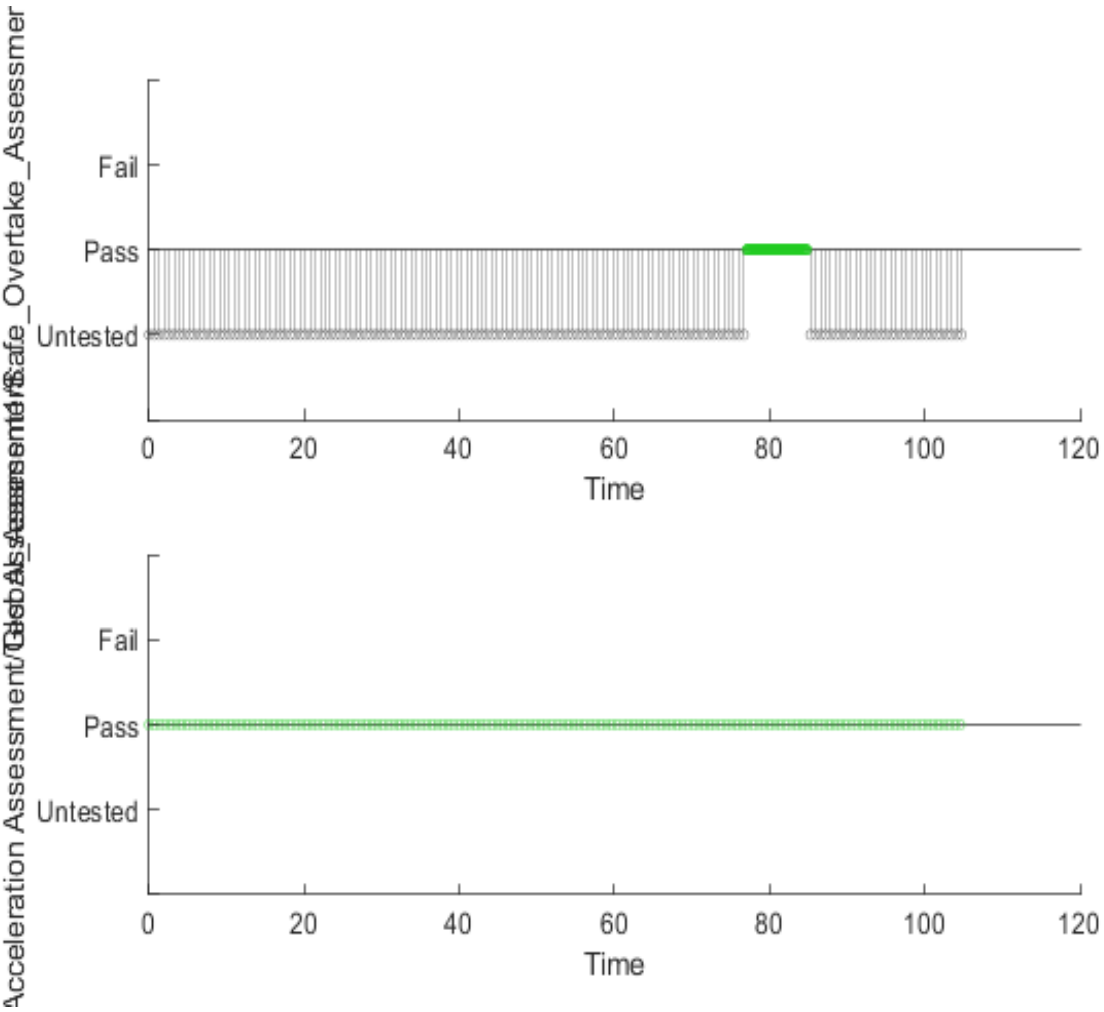
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

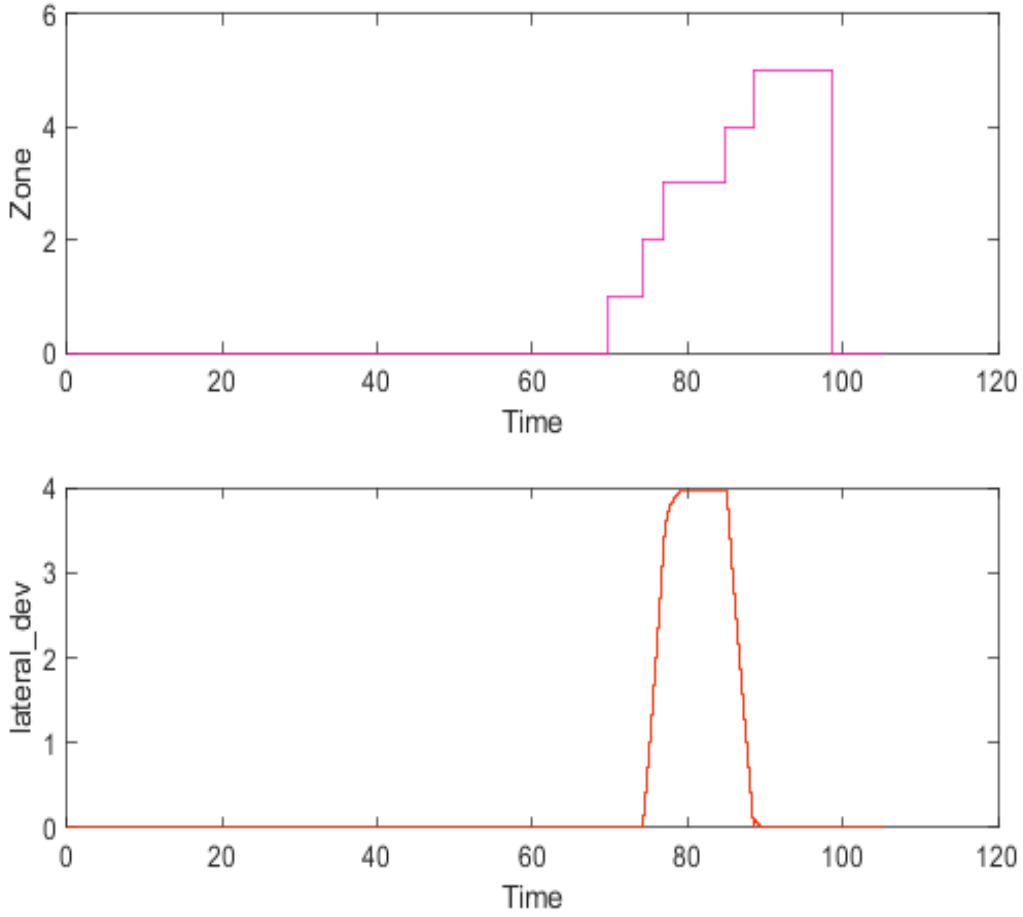
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	105.24080797865437
Checksum:	326648992 3629909124 1123952596 929860291

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-90° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:25:12

End Time: 26-May-2021 09:25:20
Outcome: Passed

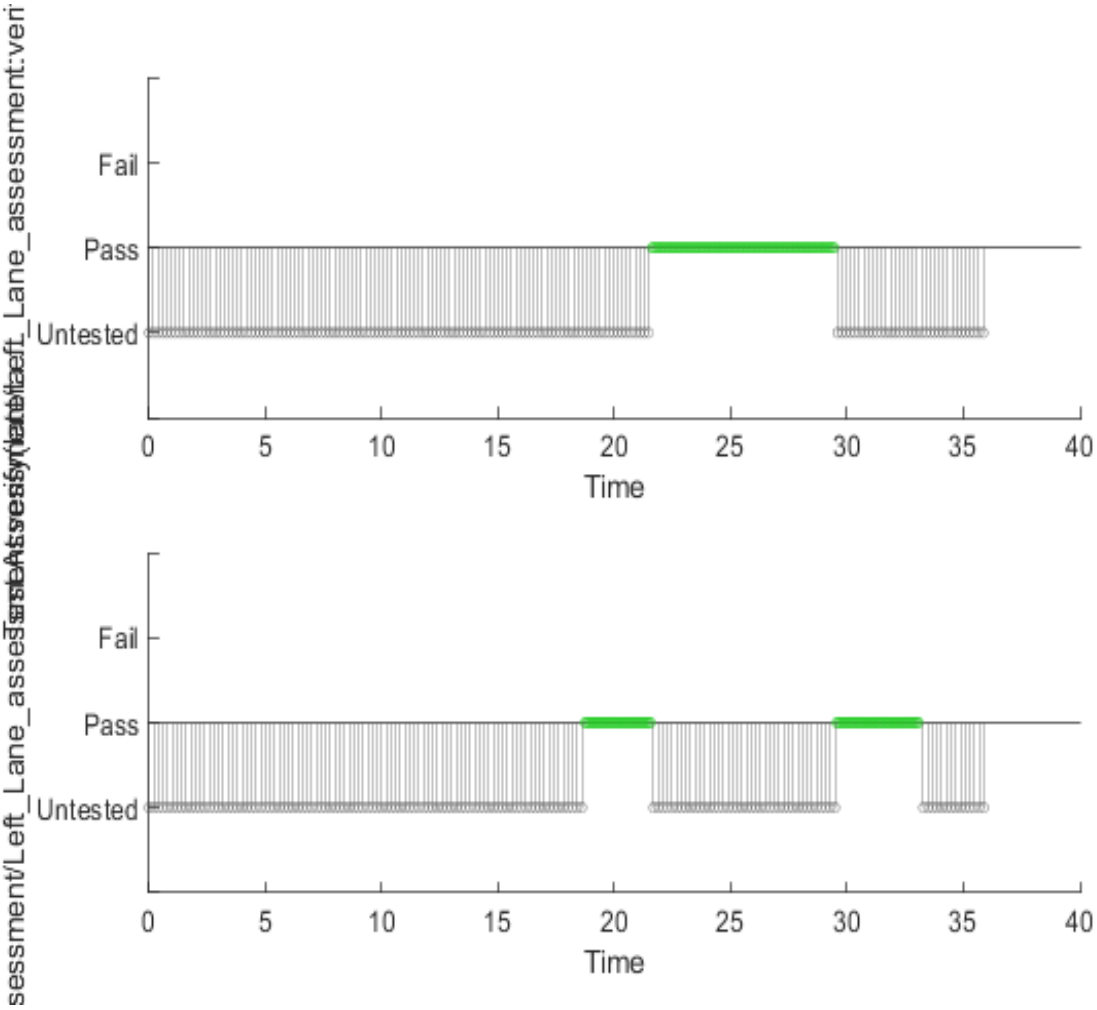
Test Case Information

Name: -90° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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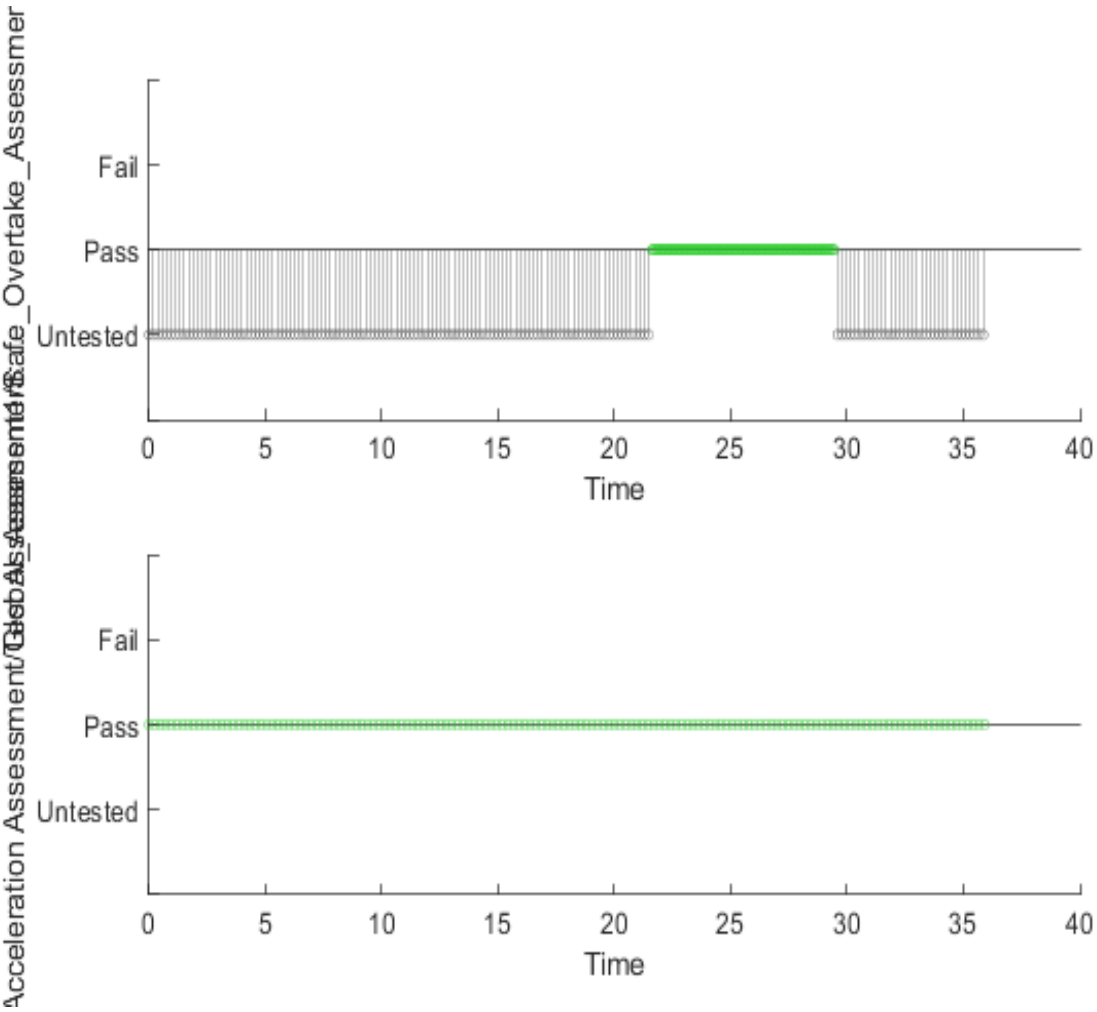
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

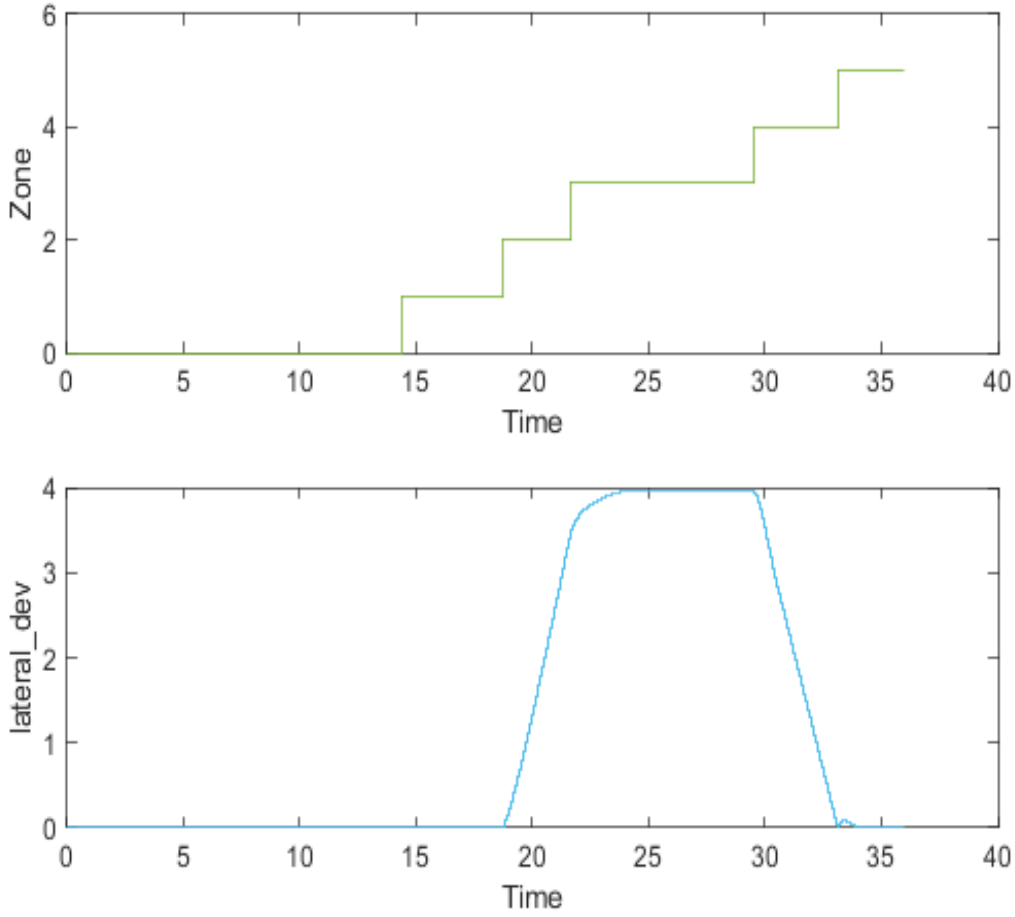
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	36
Checksum:	2617558918 3012509253 1936716657 2557864274

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-110° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:25:20

End Time: 26-May-2021 09:25:27
Outcome: Passed

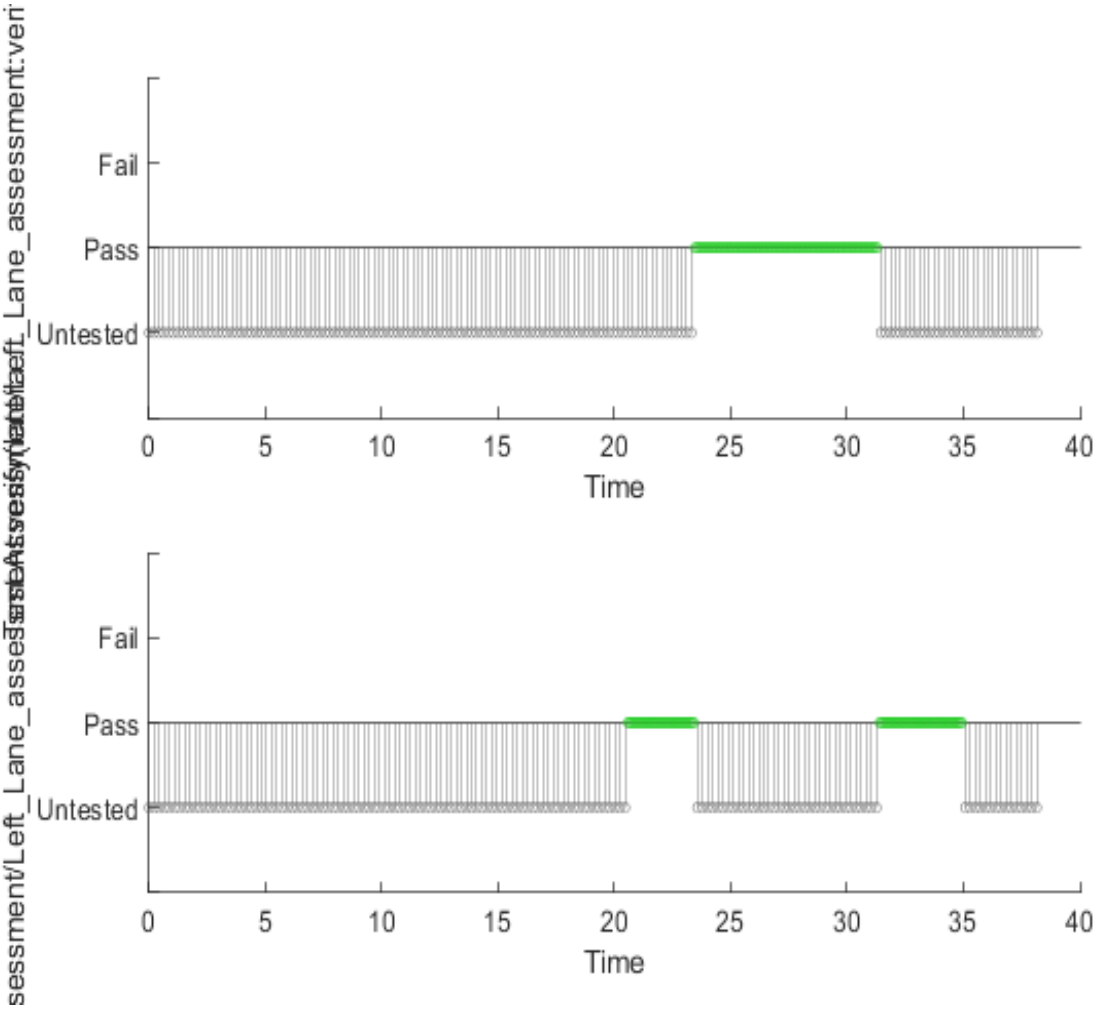
Test Case Information

Name: -110° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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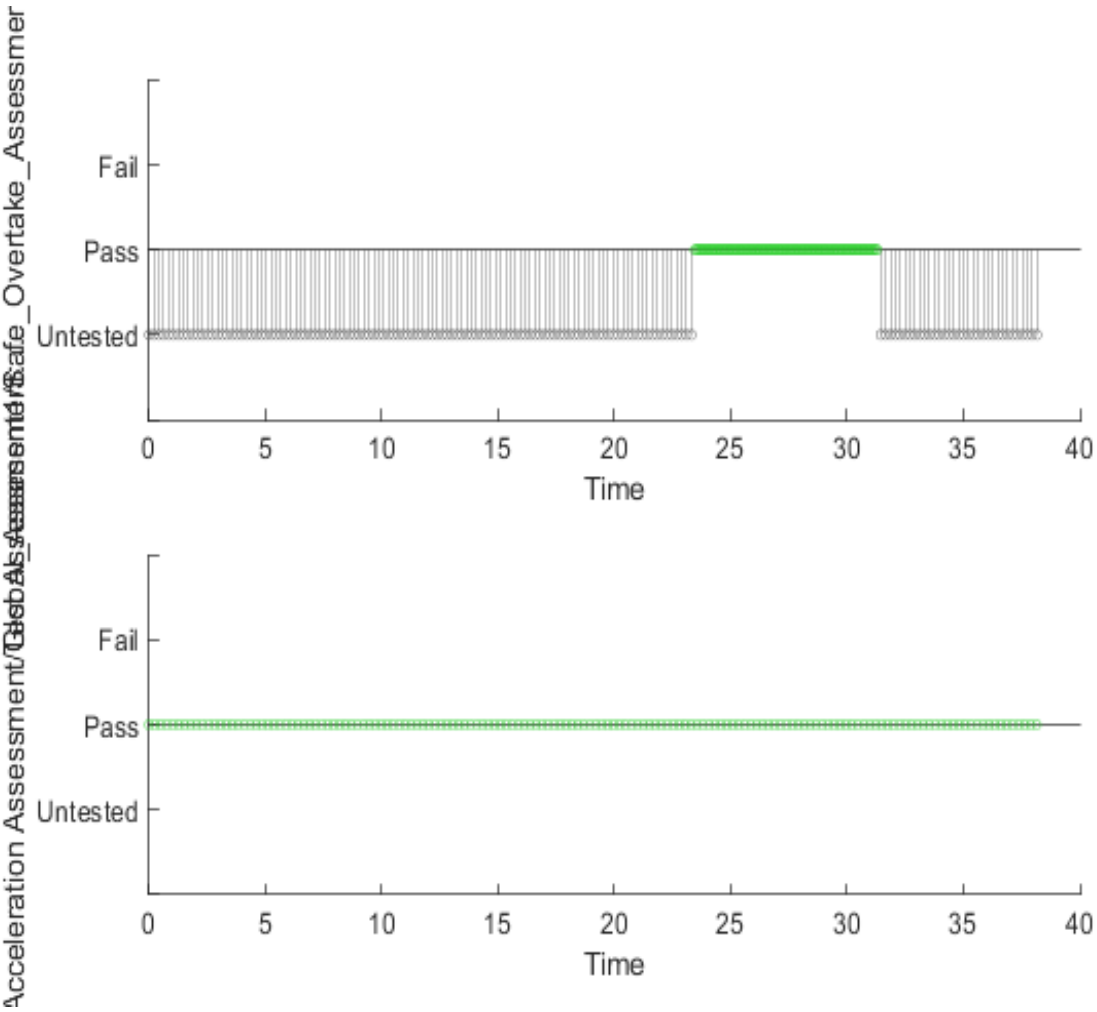
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

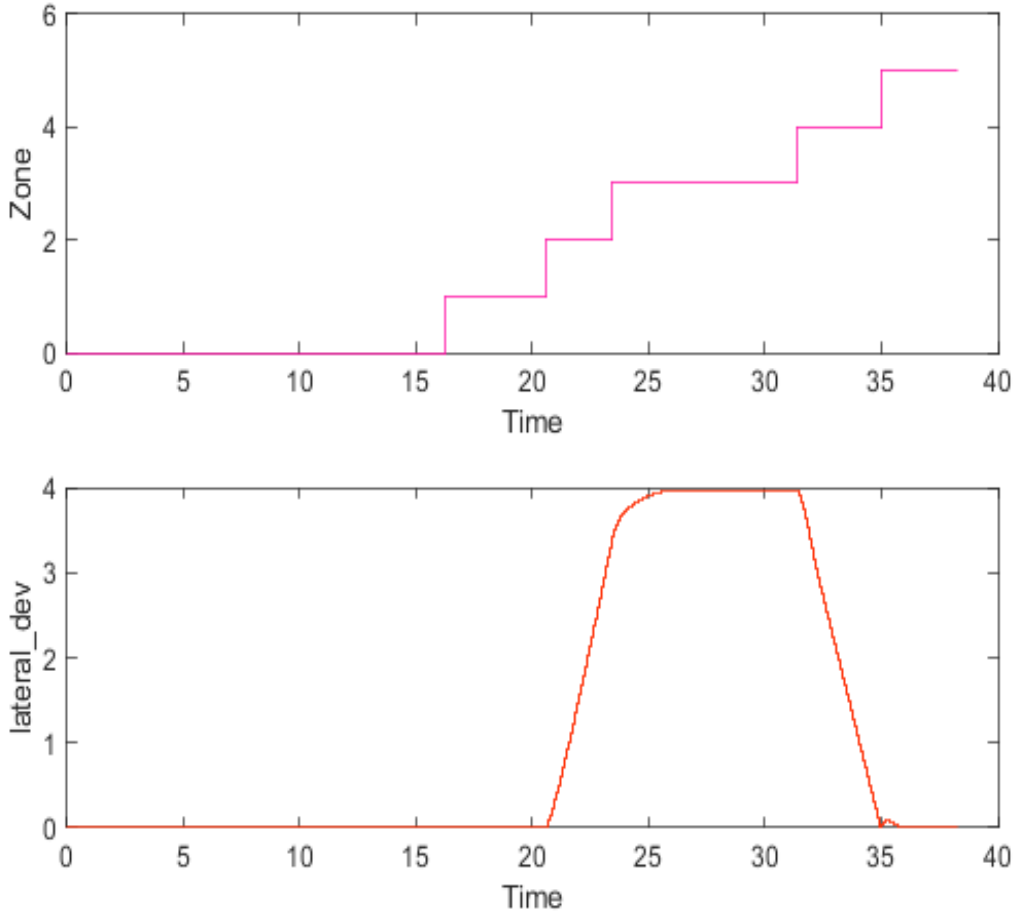
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	38.310766319665291
Checksum:	2362763310 2399675554 421837485 3980121959

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-135° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:25:27

End Time: 26-May-2021 09:25:36
Outcome: Passed

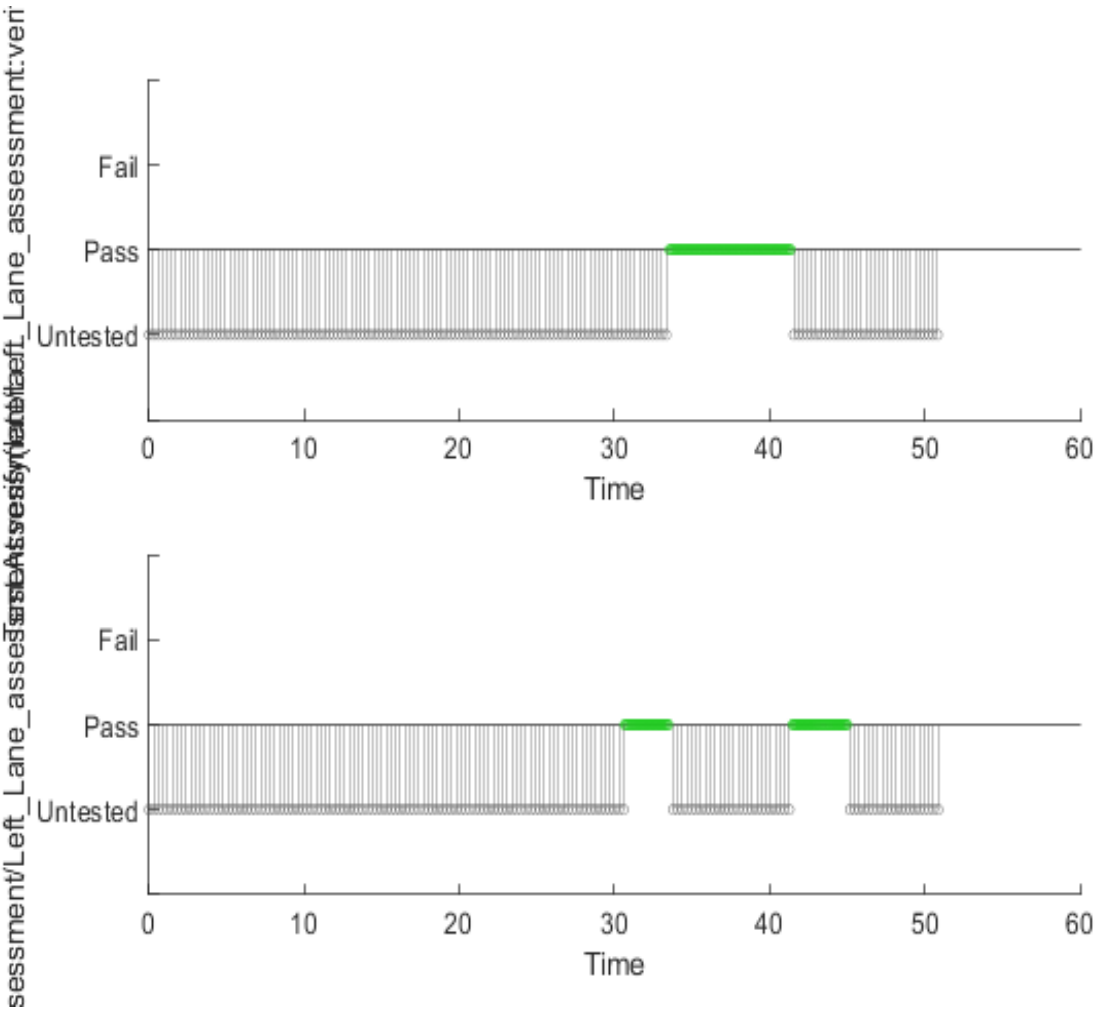
Test Case Information

Name: -135° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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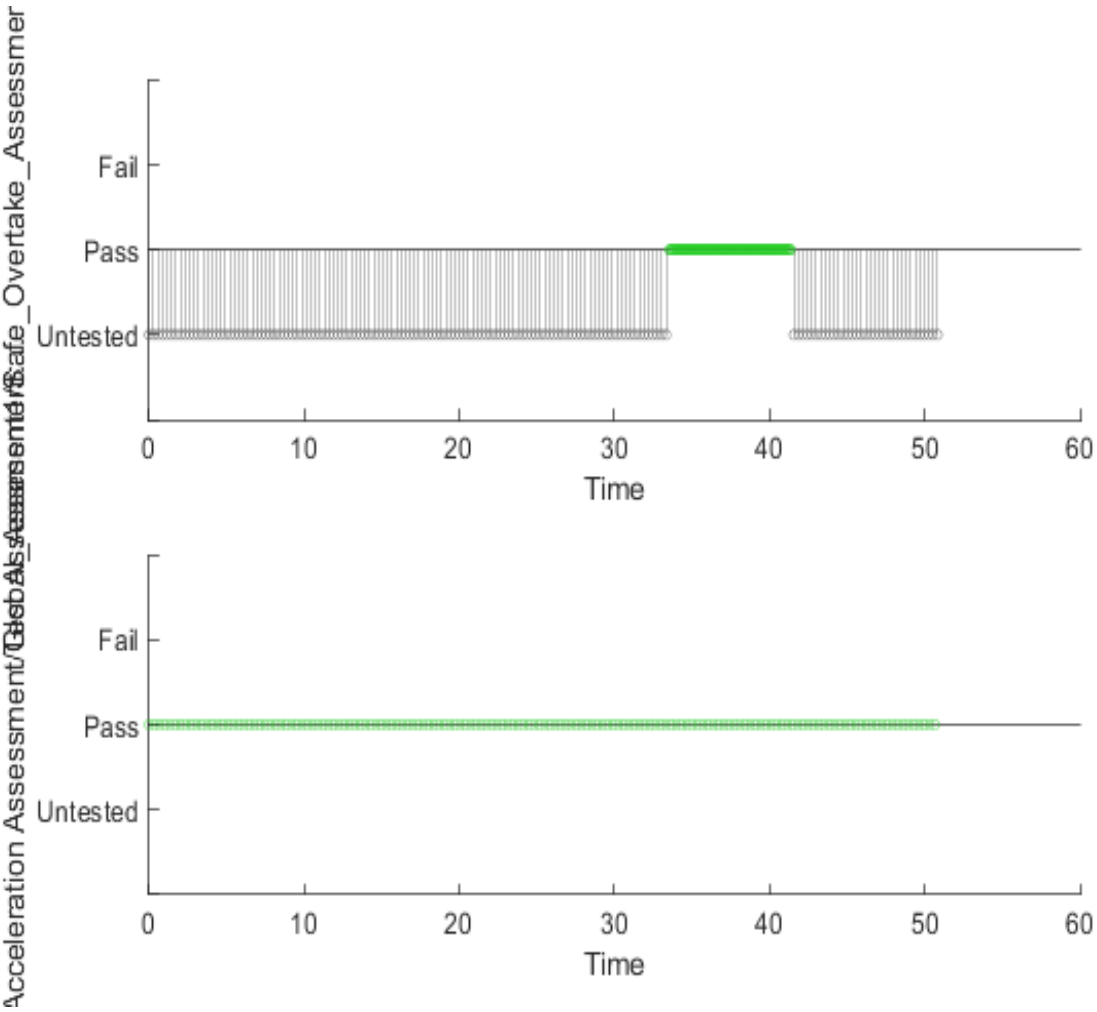
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

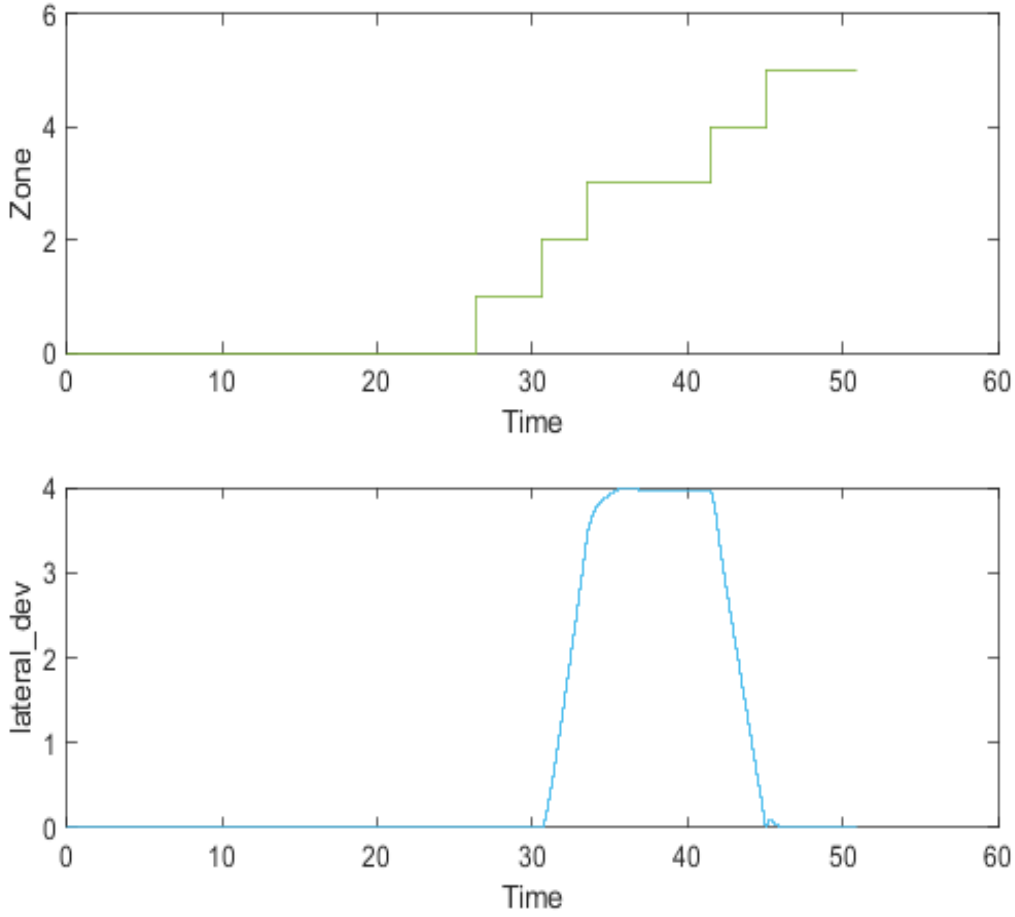
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	50.911688245431421
Checksum:	3791723175 3140338622 53927186 3813431970

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-160° 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:25:36

End Time: 26-May-2021 09:25:57
Outcome: Passed

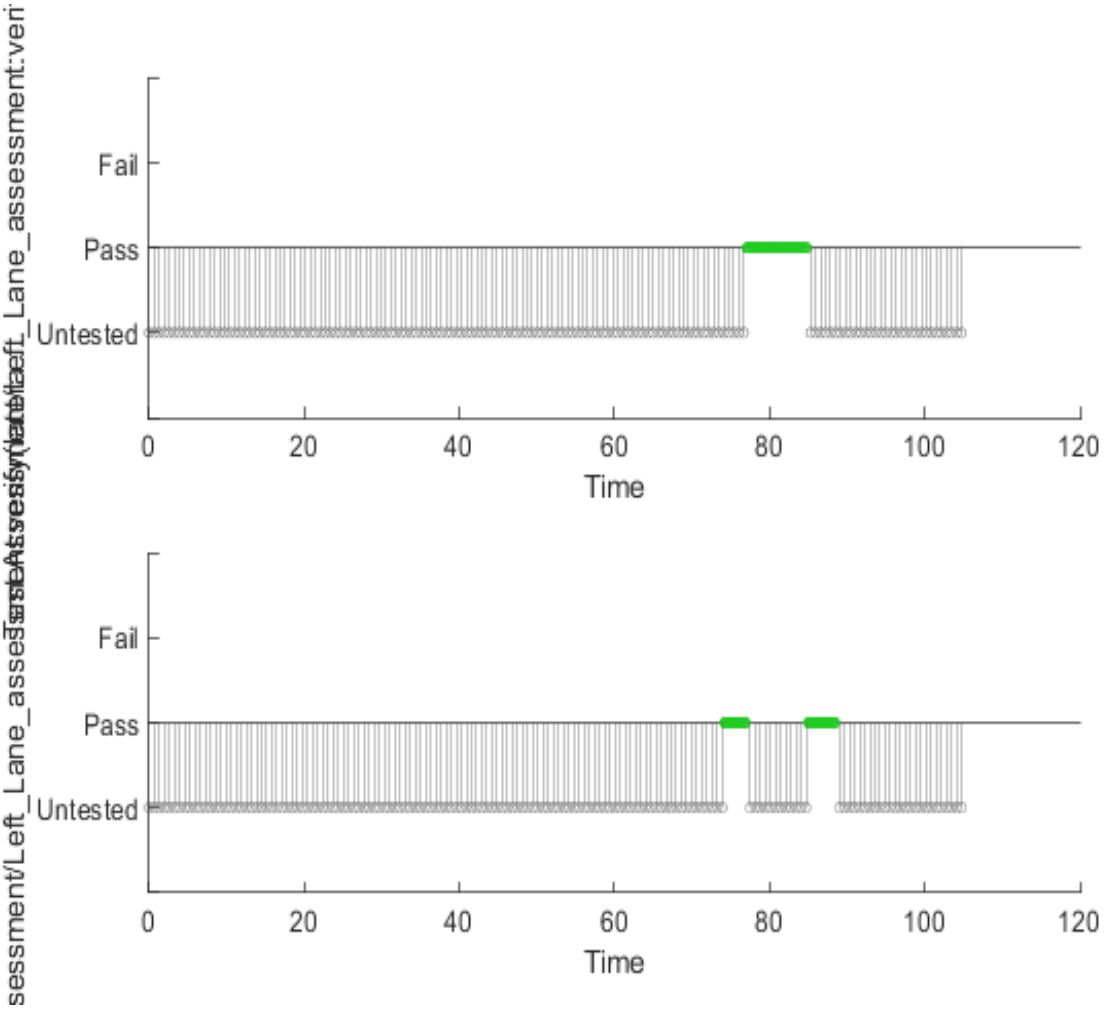
Test Case Information

Name: -160° 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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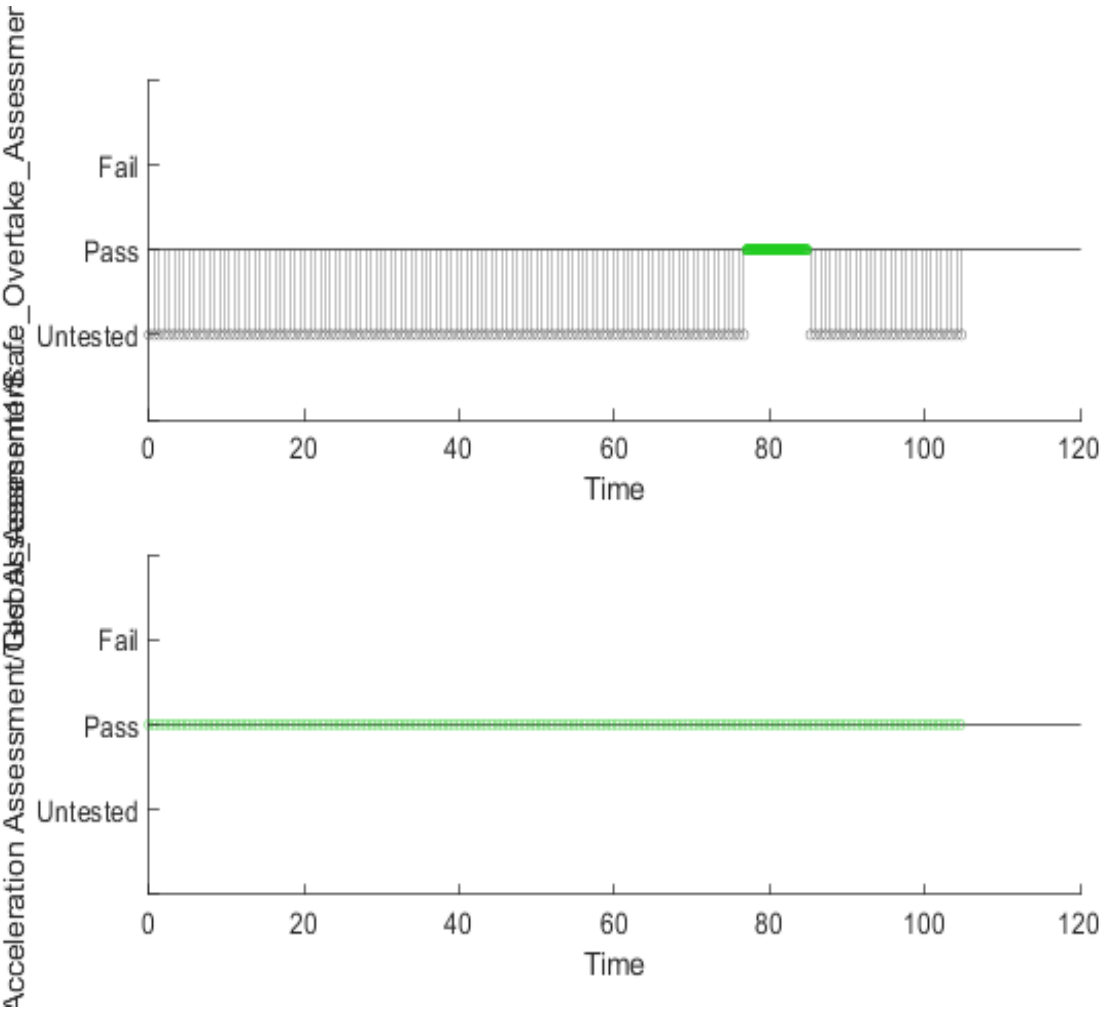
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

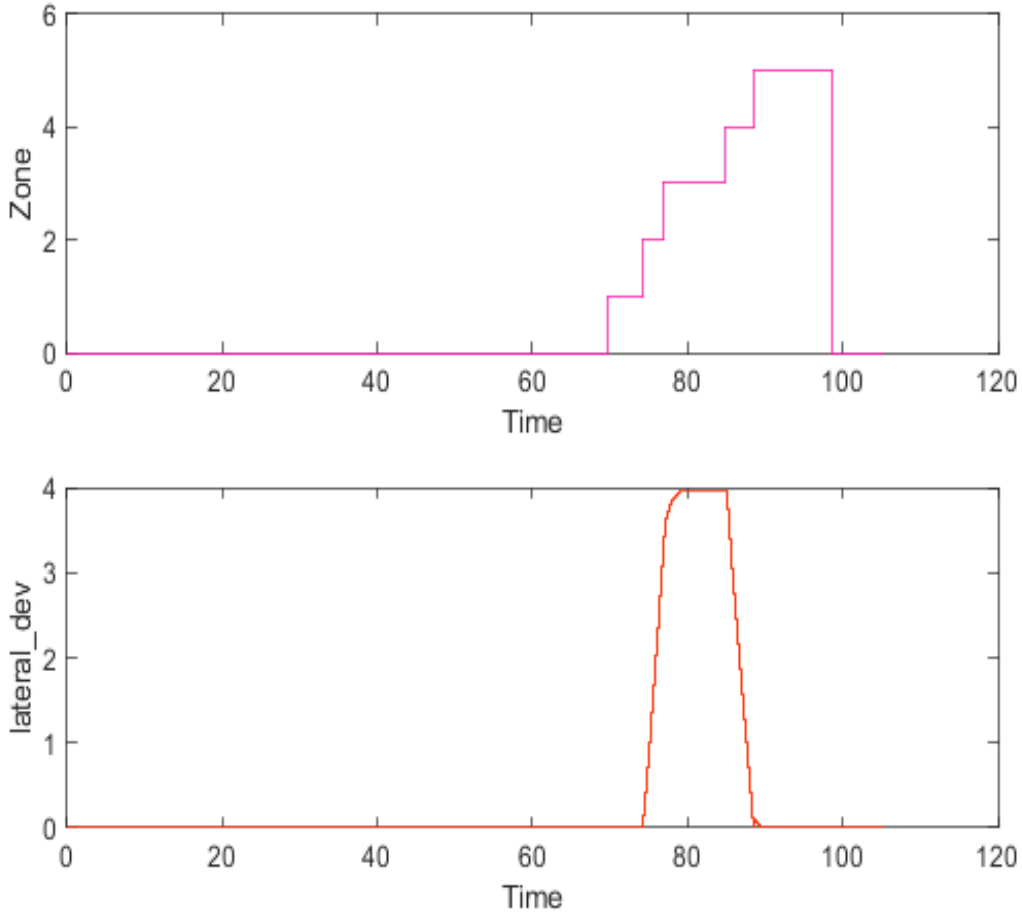
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	105.24080797865437
Checksum:	326648992 3629909124 1123952596 929860291

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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1000m curvature clockwise 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:25:57

End Time: 26-May-2021 09:26:28
Outcome: Passed

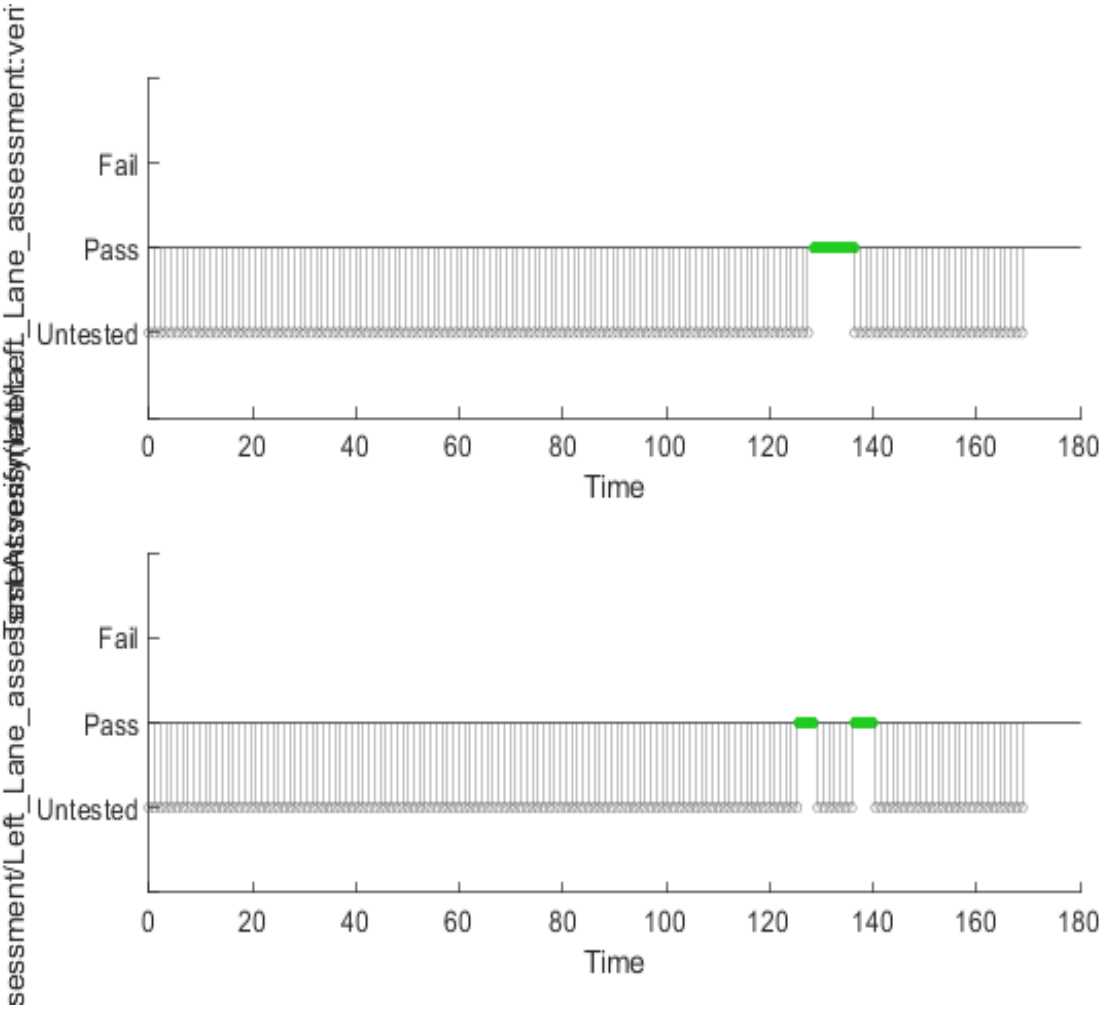
Test Case Information

Name: 1000m curvature clockwise 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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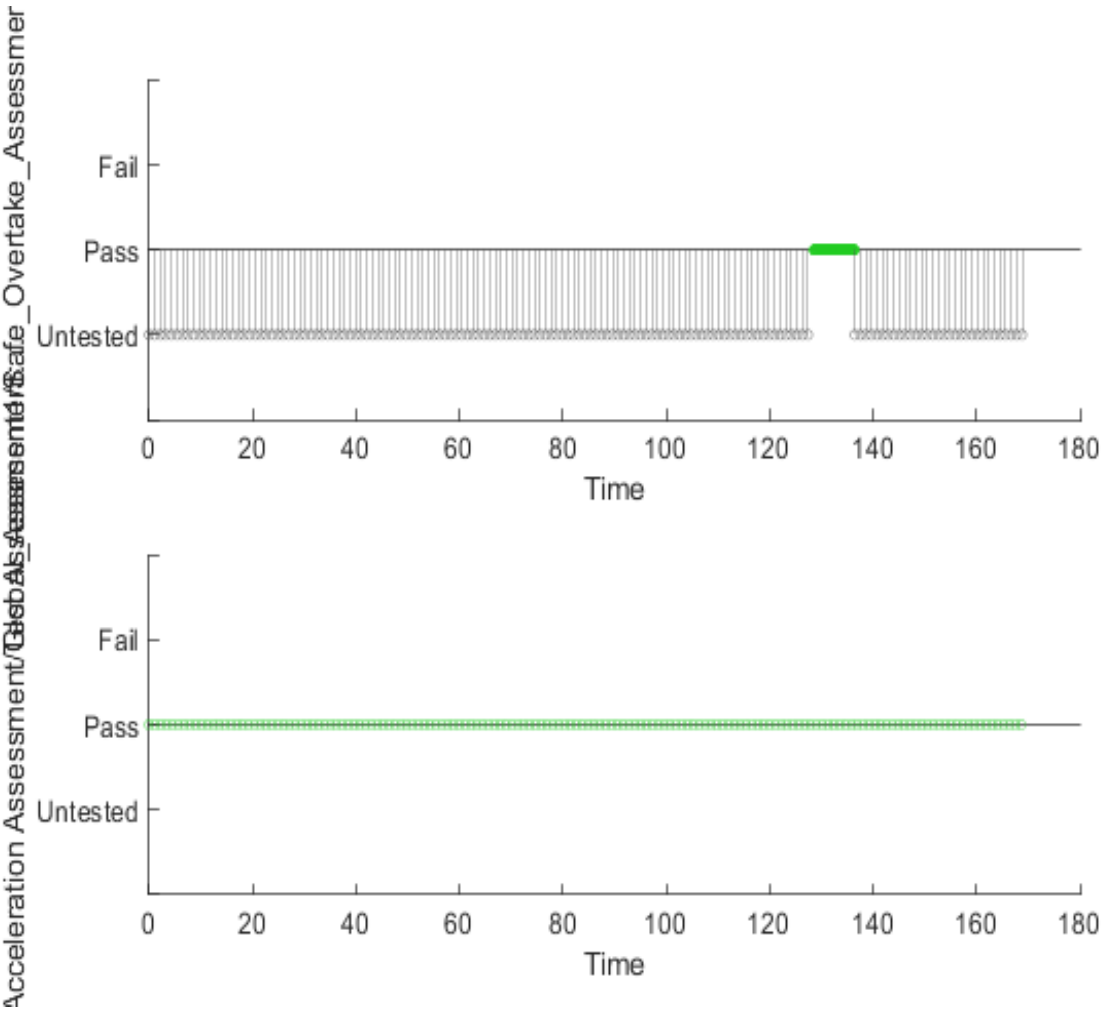
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

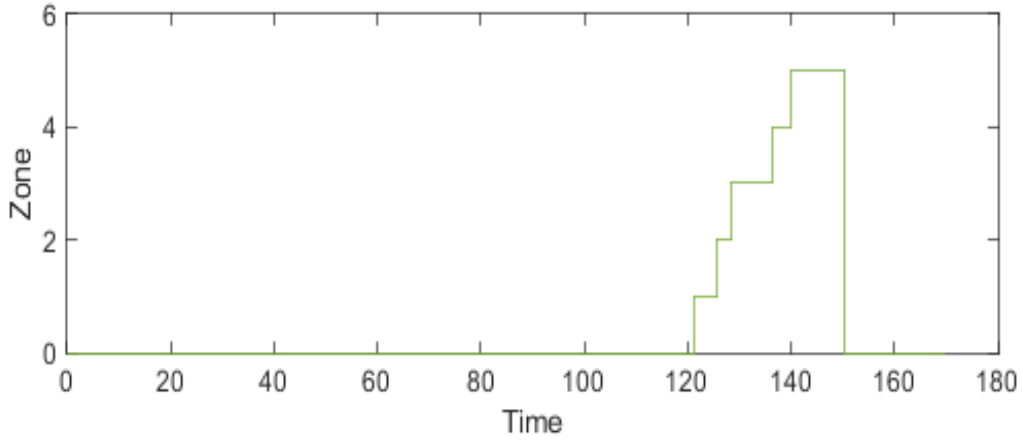
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

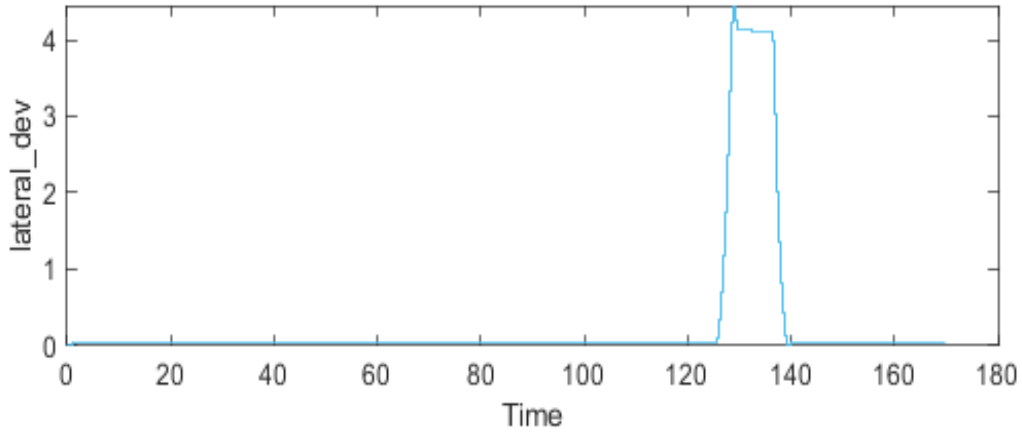
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	169.65000000000268
Checksum:	3985114999 2745918802 3381735477 1192912137

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union





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500m curvature clockwise 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:26:29

End Time: 26-May-2021 09:26:40
Outcome: Passed

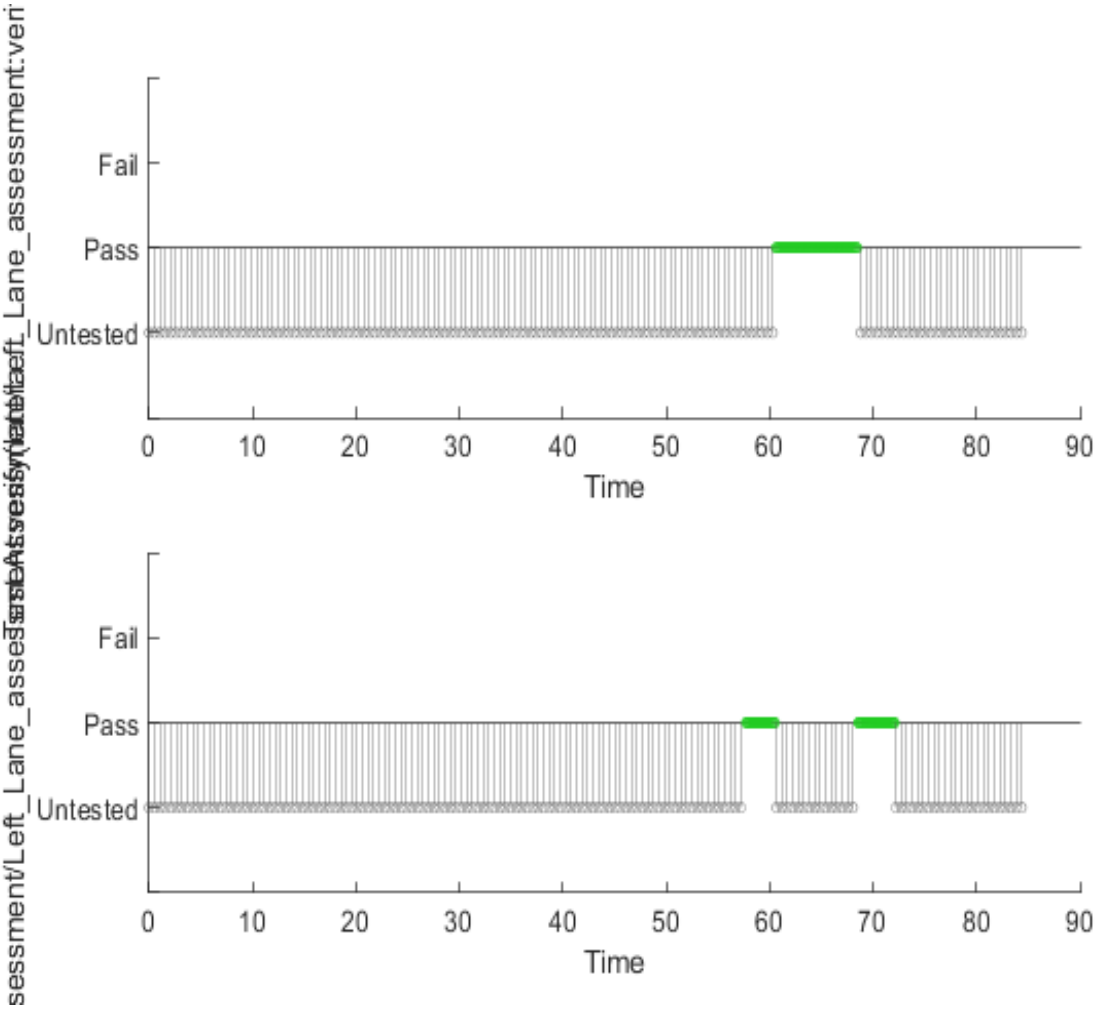
Test Case Information

Name: 500m curvature clockwise 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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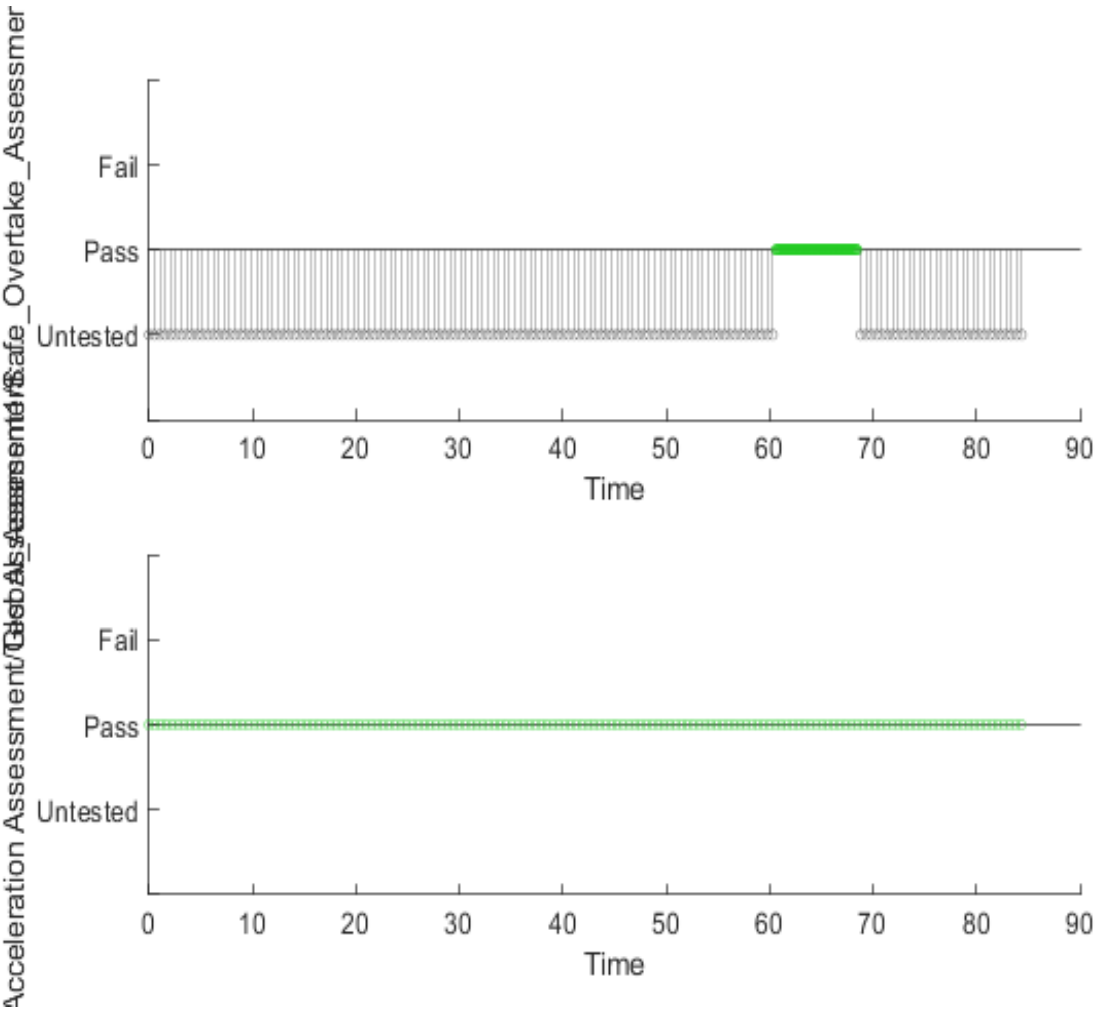
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

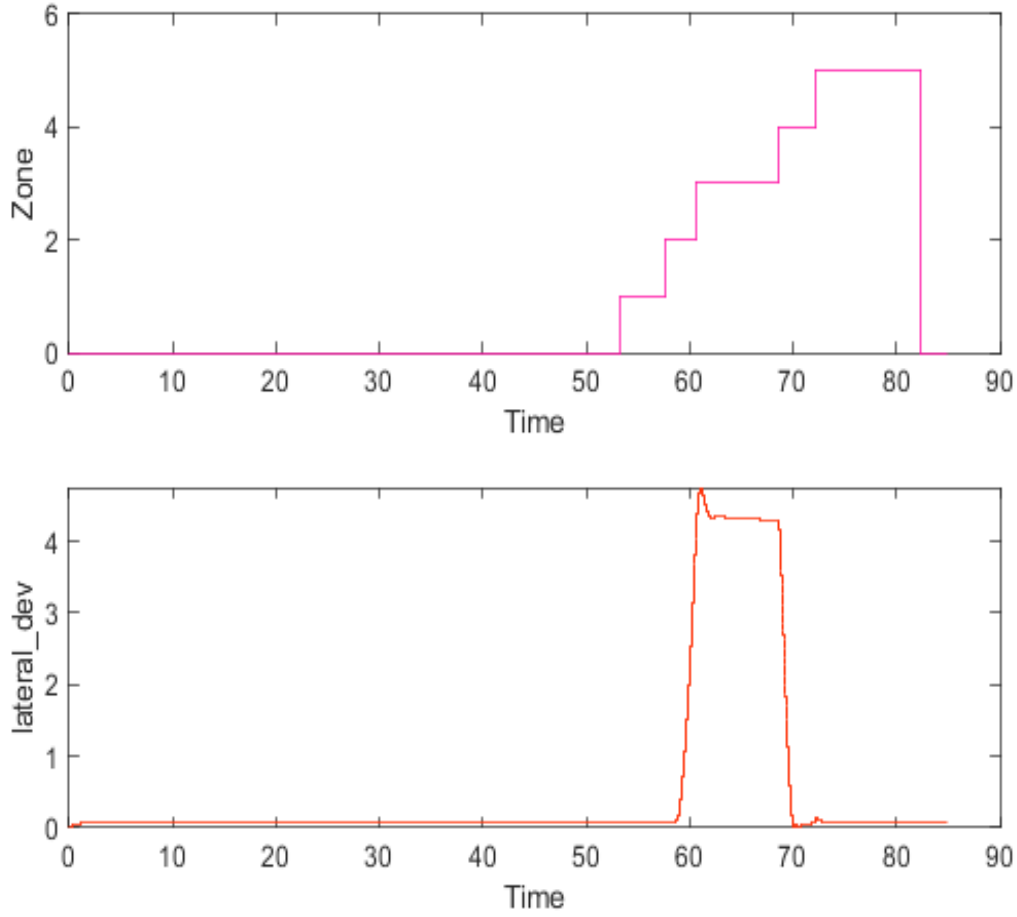
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	84.829999999999686
Checksum:	3254174547 1255574120 2850398897 811390002

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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300m curvature clockwise 100km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 100km/h
Start Time:	26-May-2021 09:26:40

End Time: 26-May-2021 09:26:48
Outcome: Passed

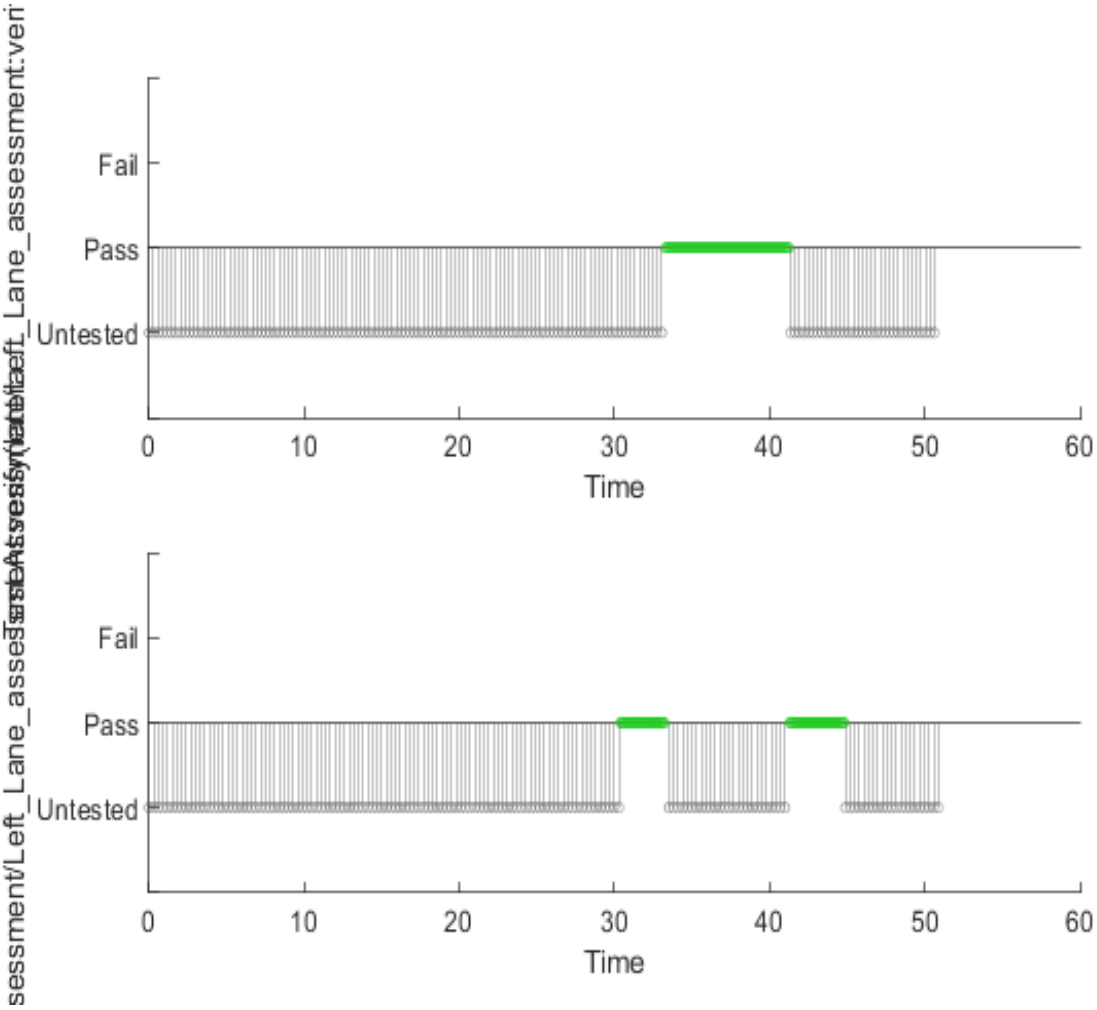
Test Case Information

Name: 300m curvature clockwise 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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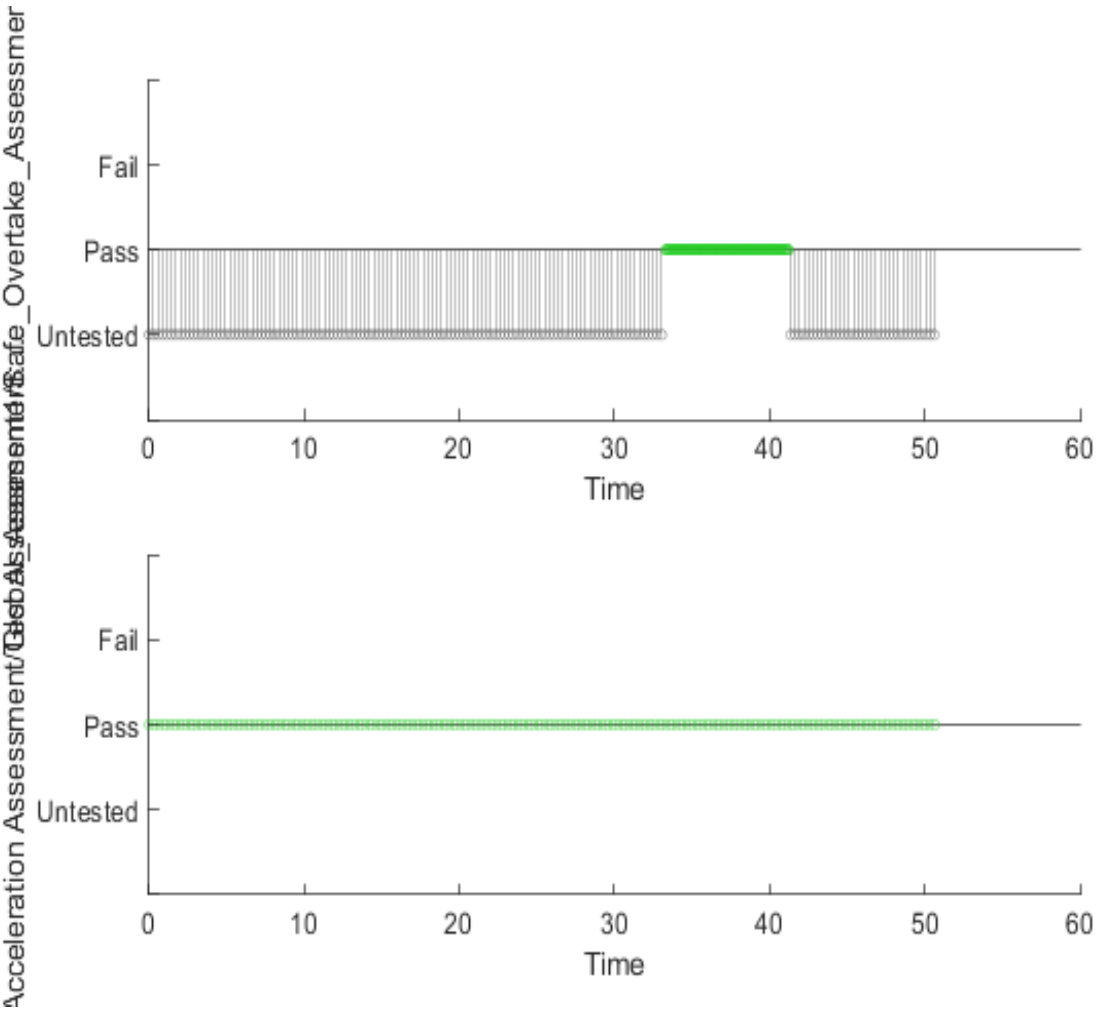
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

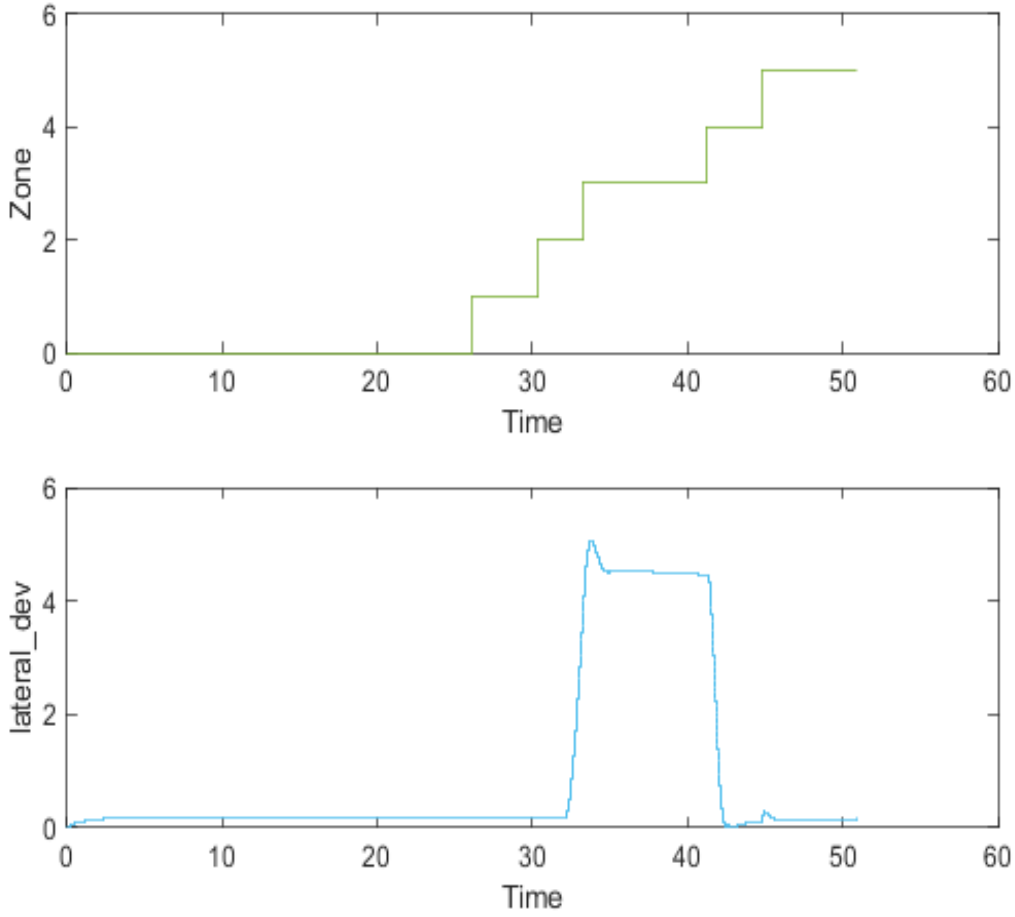
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	50.899999999999942
Checksum:	763602933 3107561293 3232683150 381700026

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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300m curvature counterclockwise 100km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 100km/h

Start Time: 26-May-2021 09:26:49
End Time: 26-May-2021 09:26:57
Outcome: Failed
Cause of Failure: Failed criteria: Verification

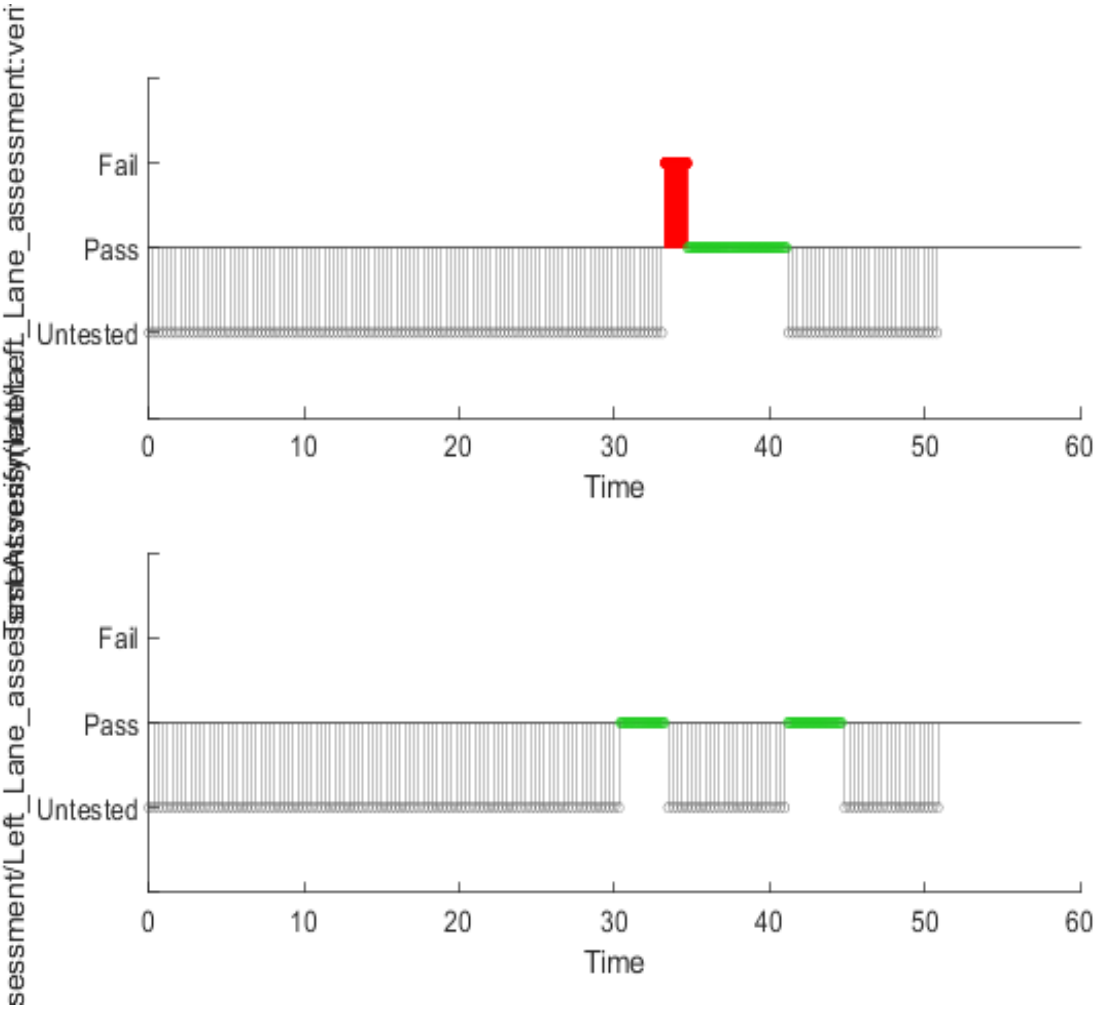
Test Case Information

Name: 300m curvature counterclockwise 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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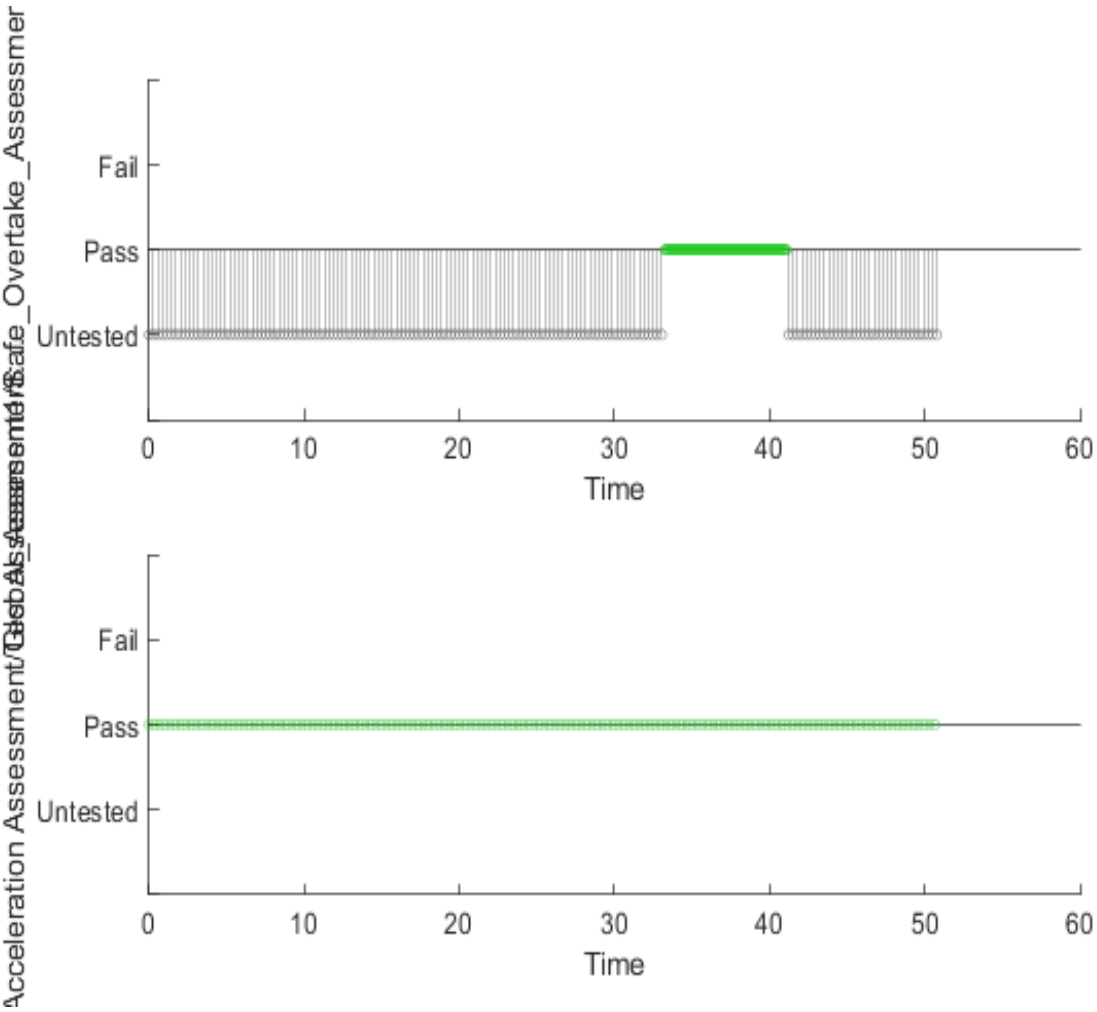
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

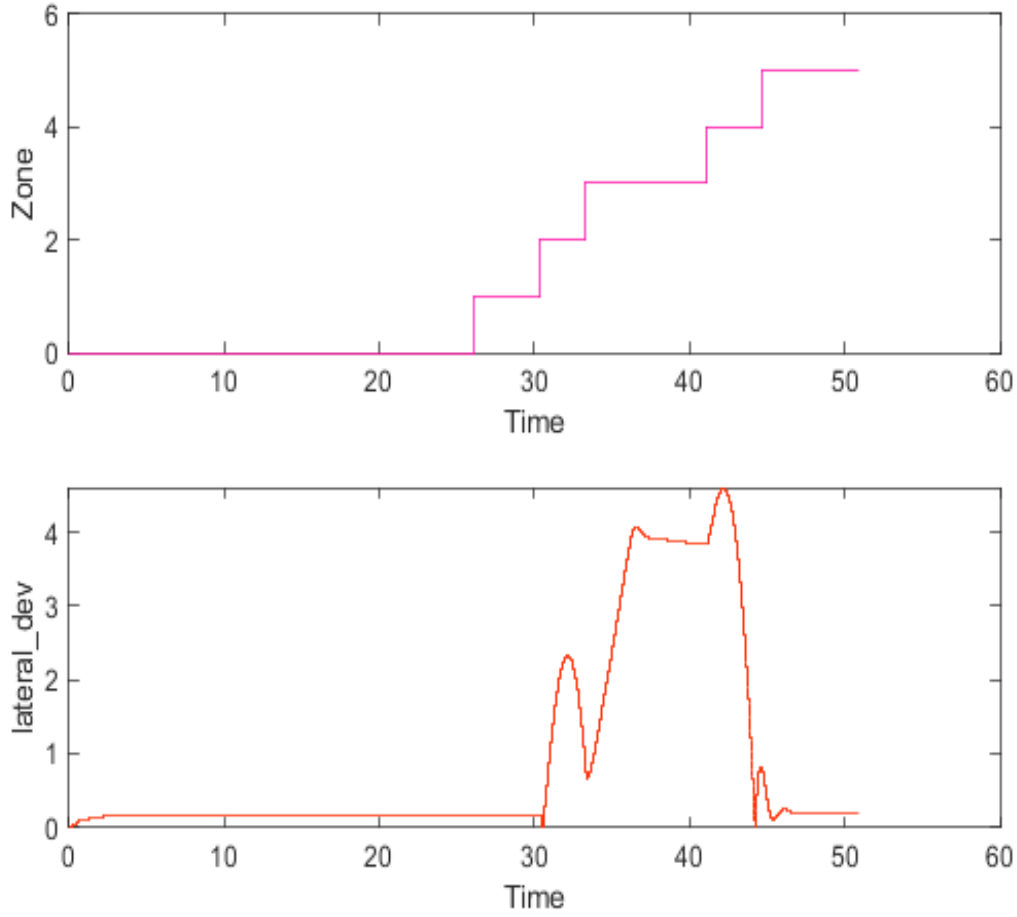
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	50.899999999999942
Checksum:	763602933 3107561293 3232683150 381700026

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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500m curvature counterclockwise 100km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 100km/h

Start Time: 26-May-2021 09:26:57
End Time: 26-May-2021 09:27:11
Outcome: Failed
Cause of Failure: Failed criteria: Verification

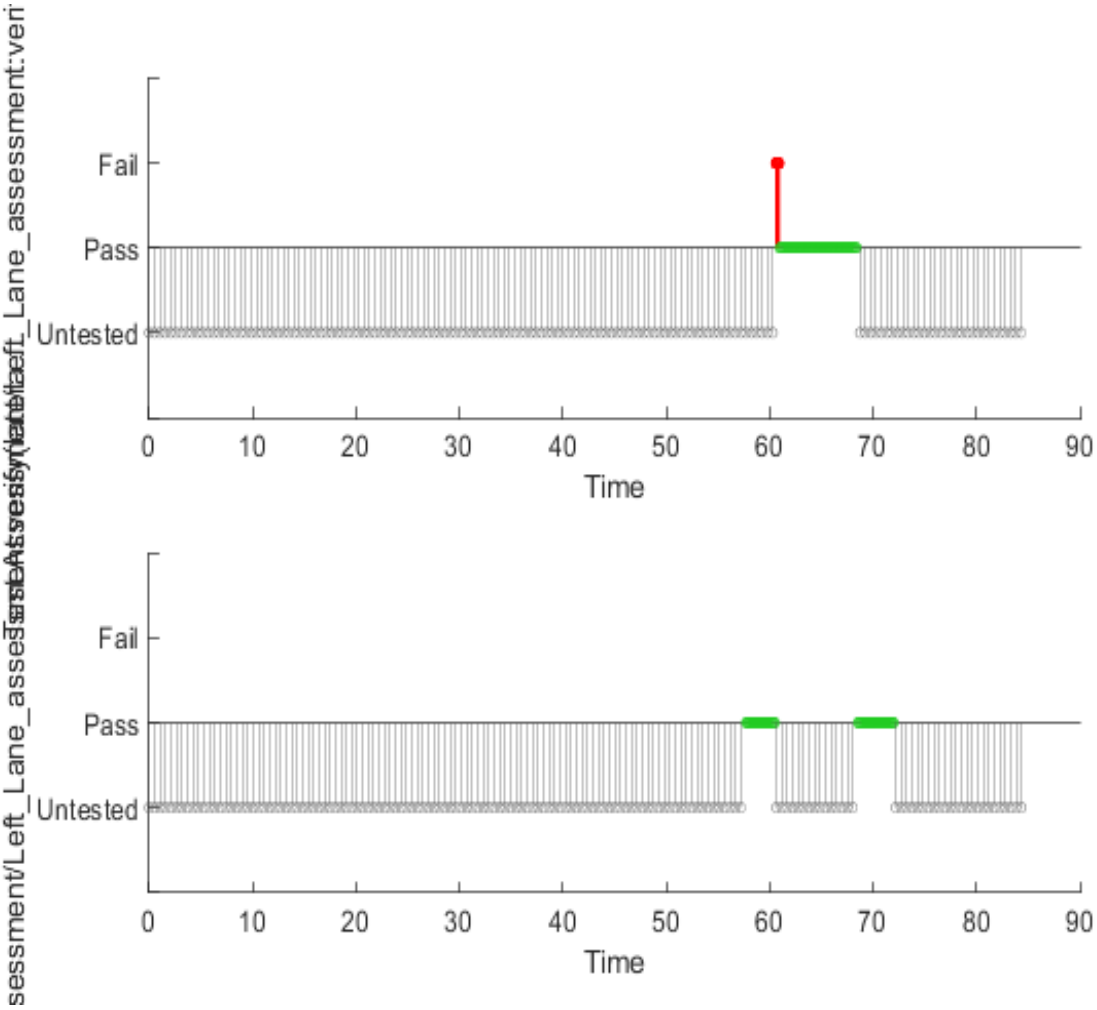
Test Case Information

Name: 500m curvature counterclockwise 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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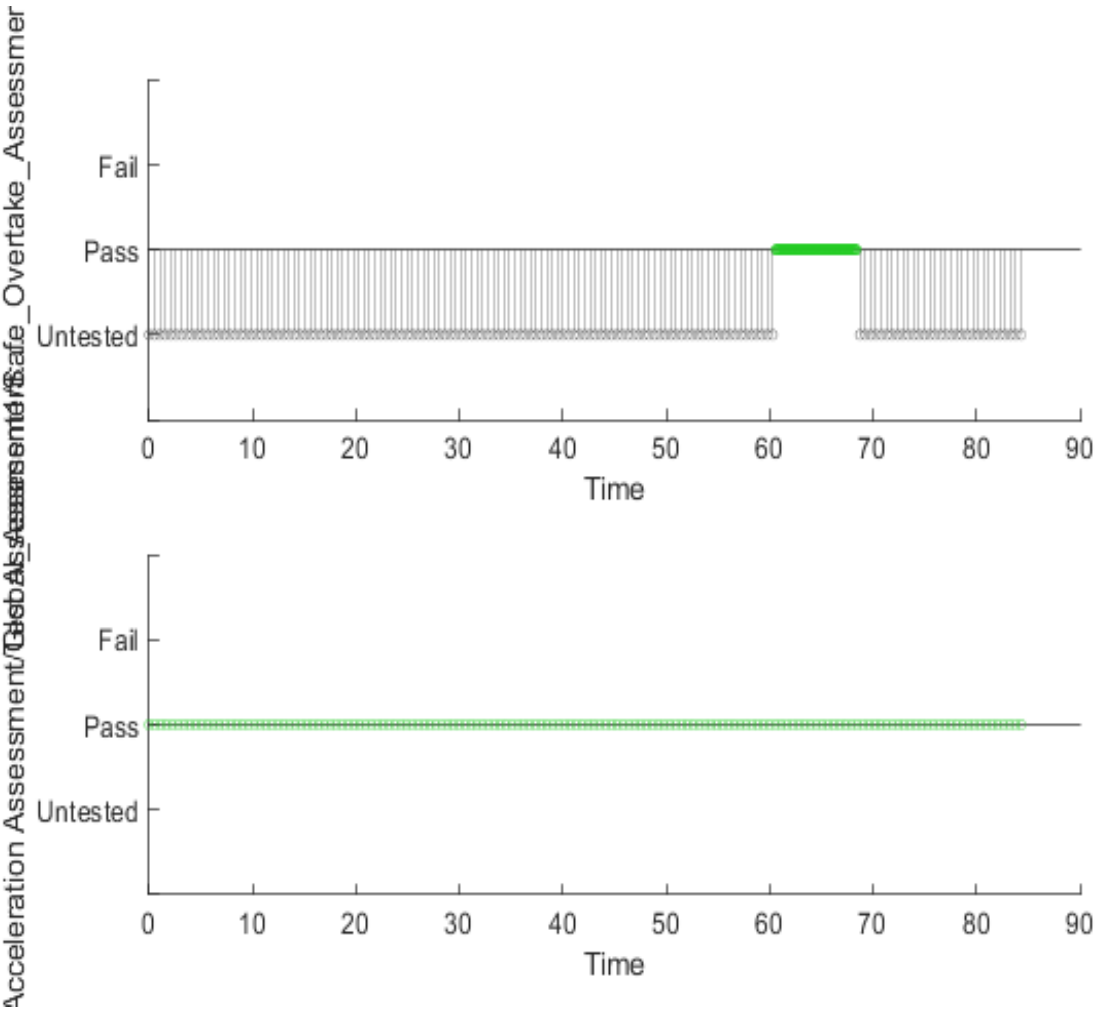
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

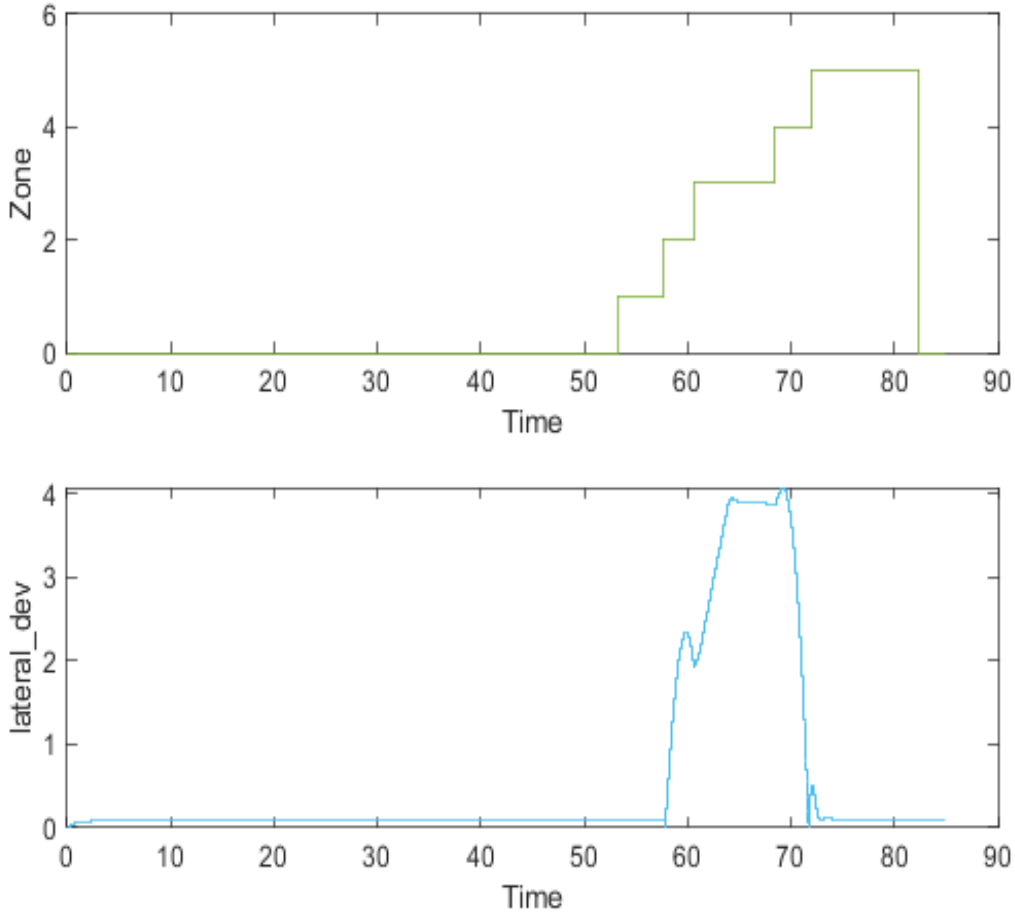
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	84.829999999999686
Checksum:	3254174547 1255574120 2850398897 811390002

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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1000m curvature counterclockwise 100km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 100km/h

Start Time: 26-May-2021 09:27:11
End Time: 26-May-2021 09:27:38
Outcome: Passed

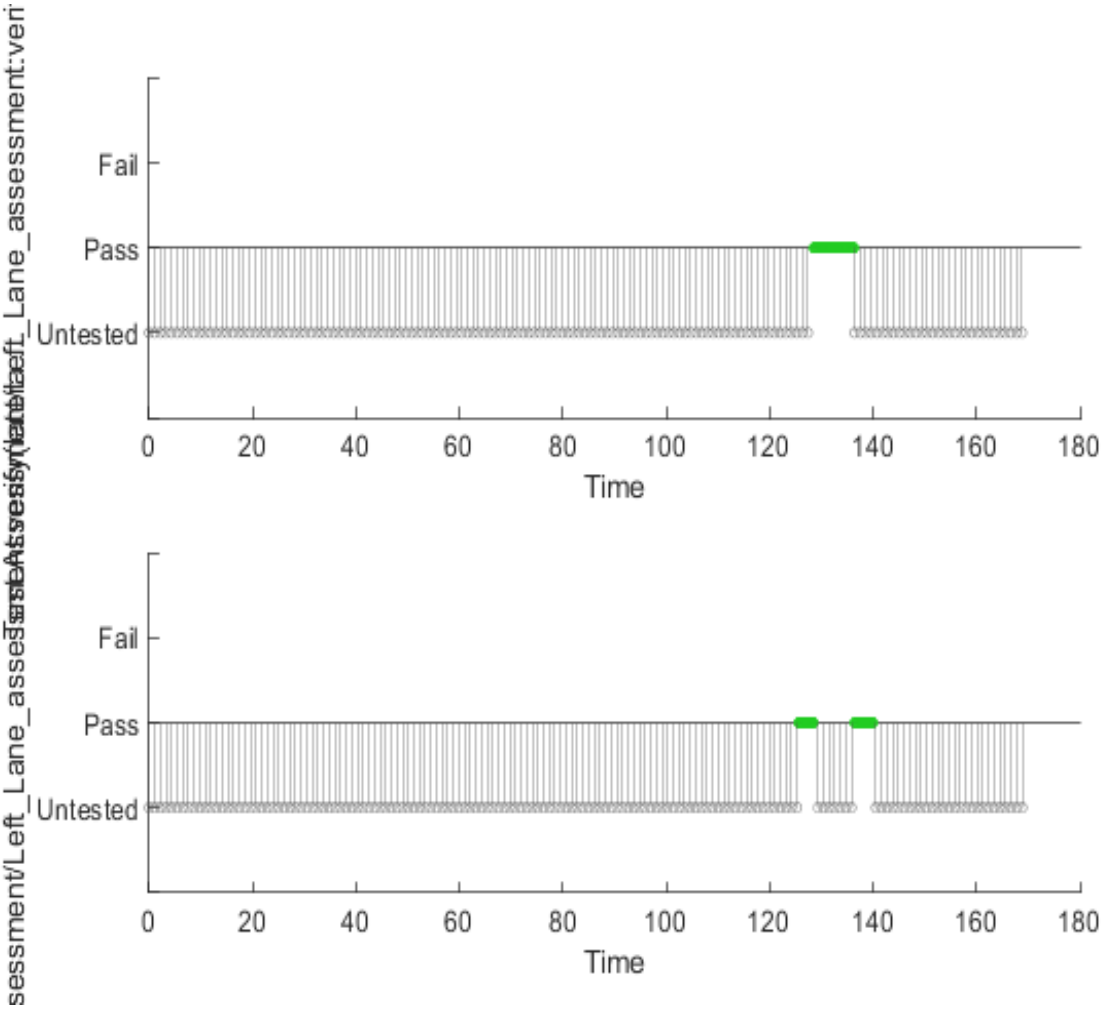
Test Case Information

Name: 1000m curvature counterclockwise 100km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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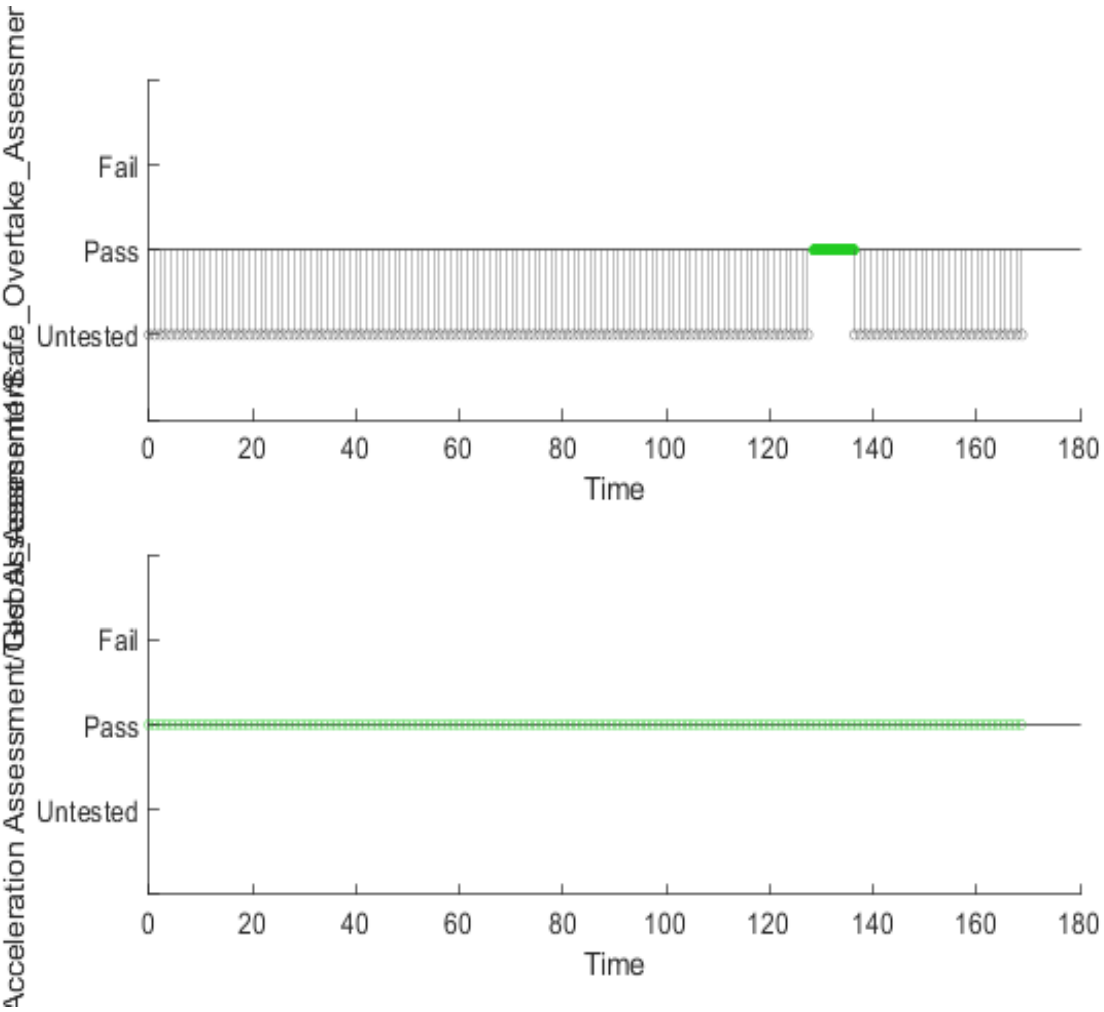
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

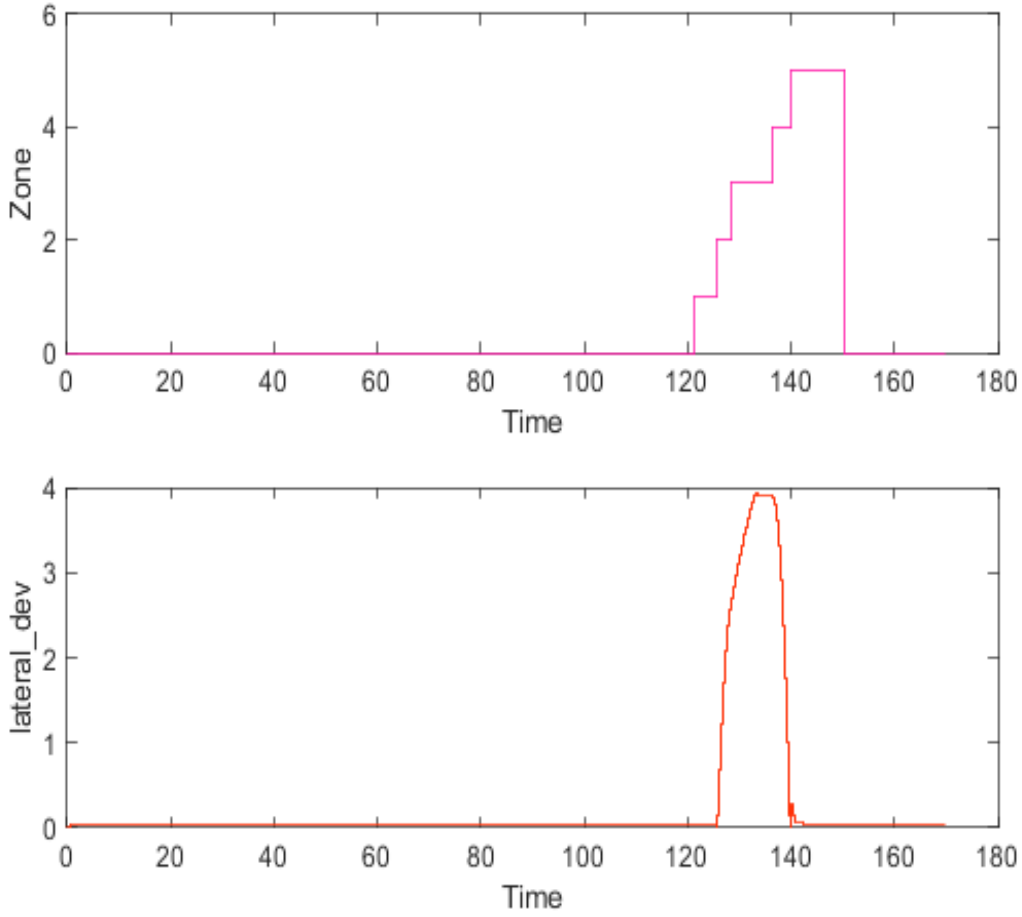
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	169.65000000000268
Checksum:	3985114999 2745918802 3381735477 1192912137

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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Dynamic_obstacle 40km/h

Test Result Information

Result Type:	Test Suite Result
Parent:	Dynamic_obstacle_avoidance
Start Time:	26-May-2021 09:27:38

End Time: 26-May-2021 09:39:04
Outcome: Total: 22, Passed: 22

Test Suite Information

Name: Dynamic_obstacle 40km/h

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0° 40km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 40km/h
Start Time: 26-May-2021 09:27:38
End Time: 26-May-2021 09:27:49
Outcome: Passed

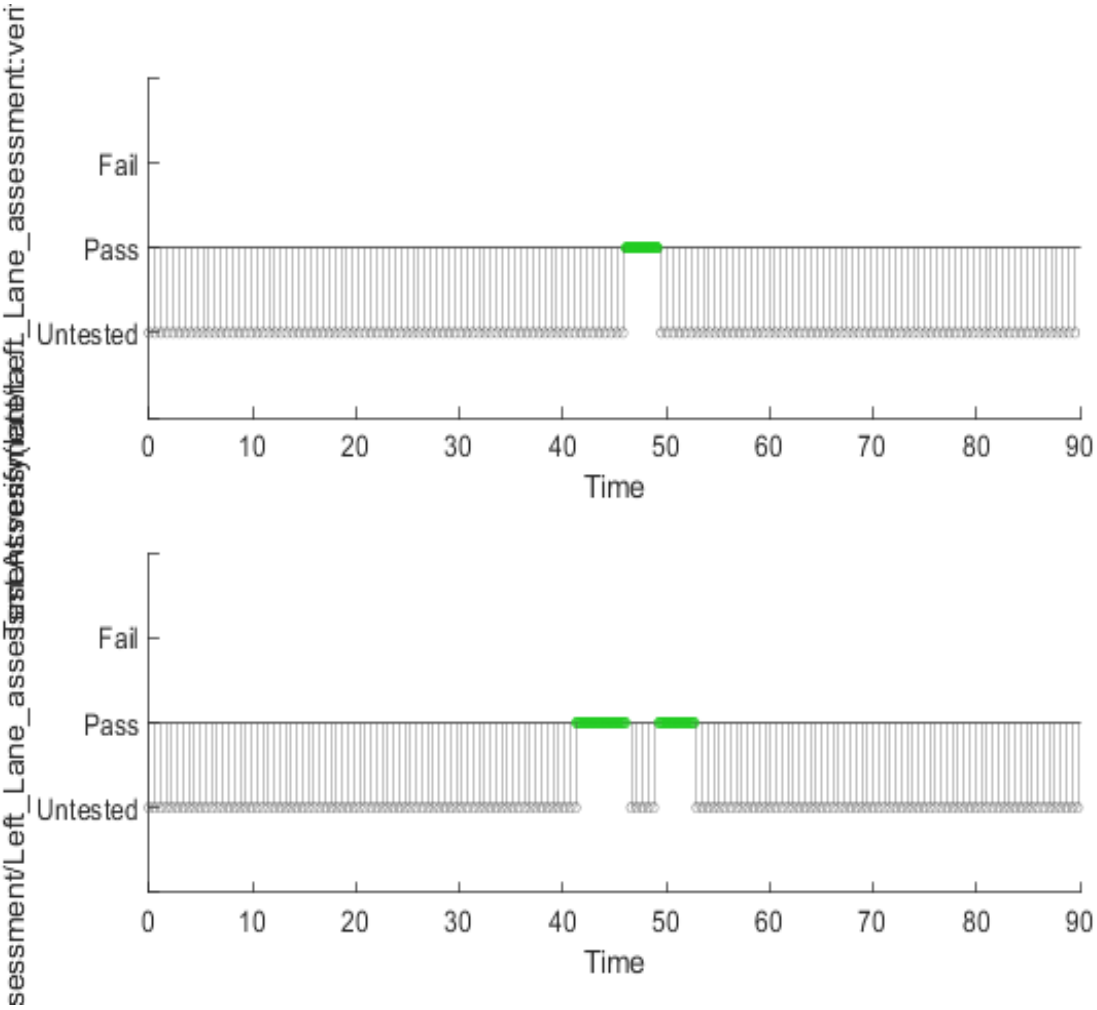
Test Case Information

Name: 0° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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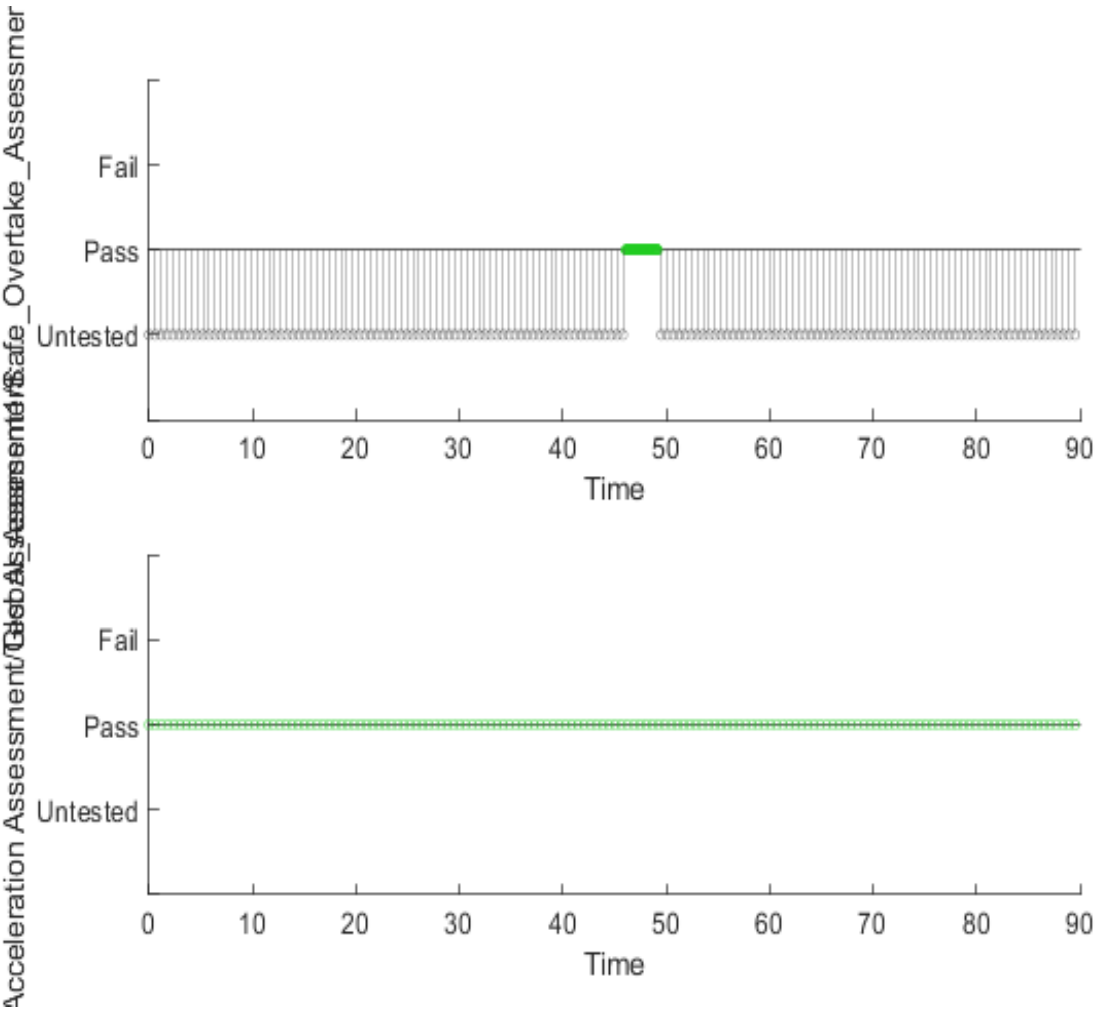
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

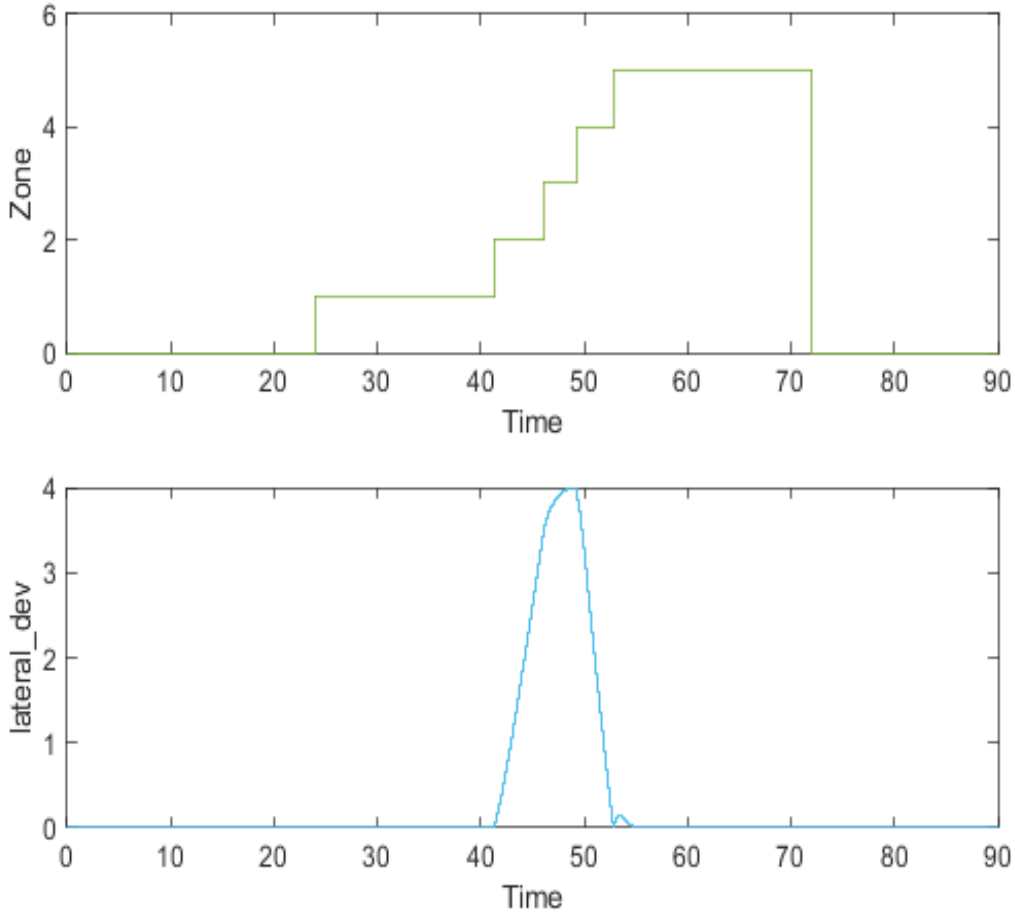
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	90
Checksum:	2343644972 1908336964 2890382273 1274090410

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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20° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:27:49

End Time: 26-May-2021 09:28:00
Outcome: Passed

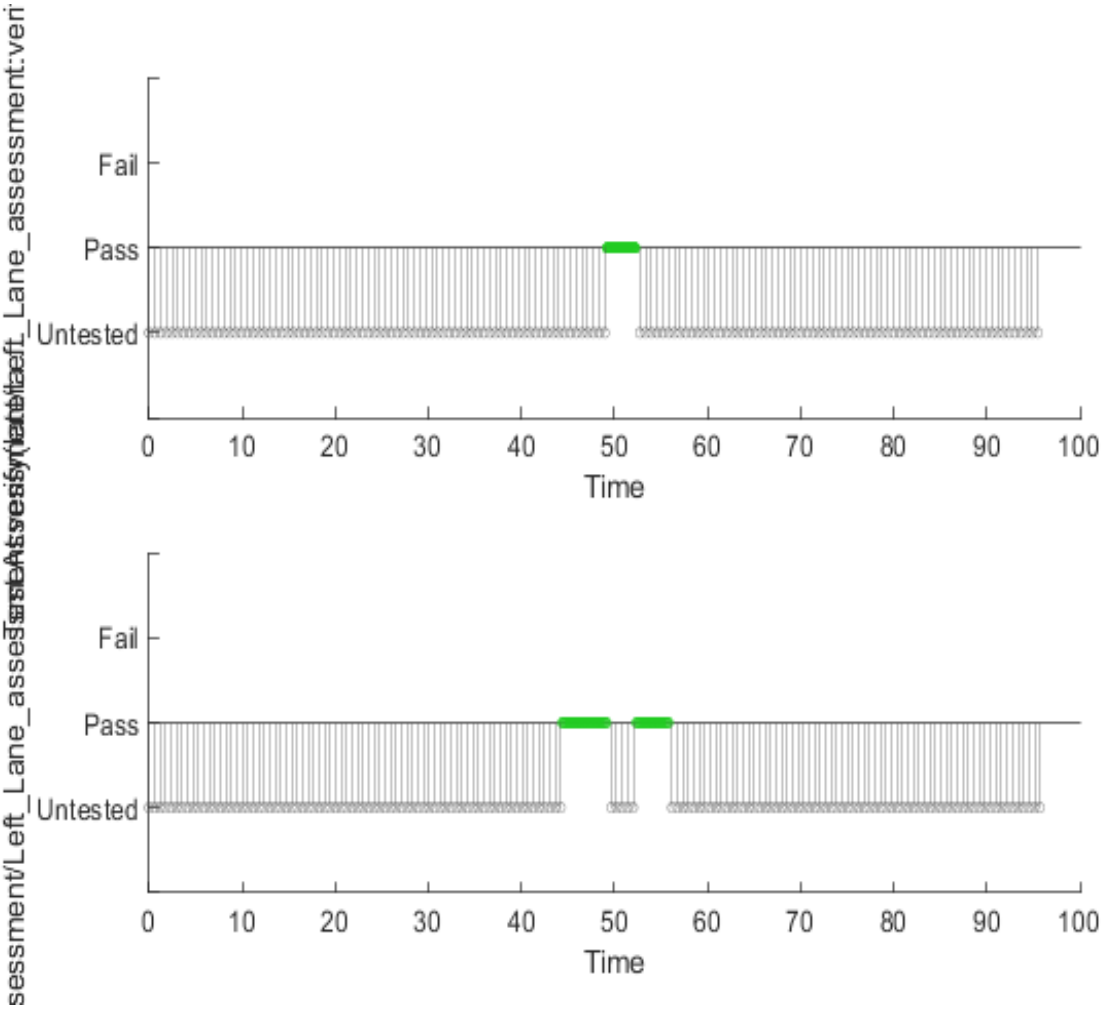
Test Case Information

Name: 20° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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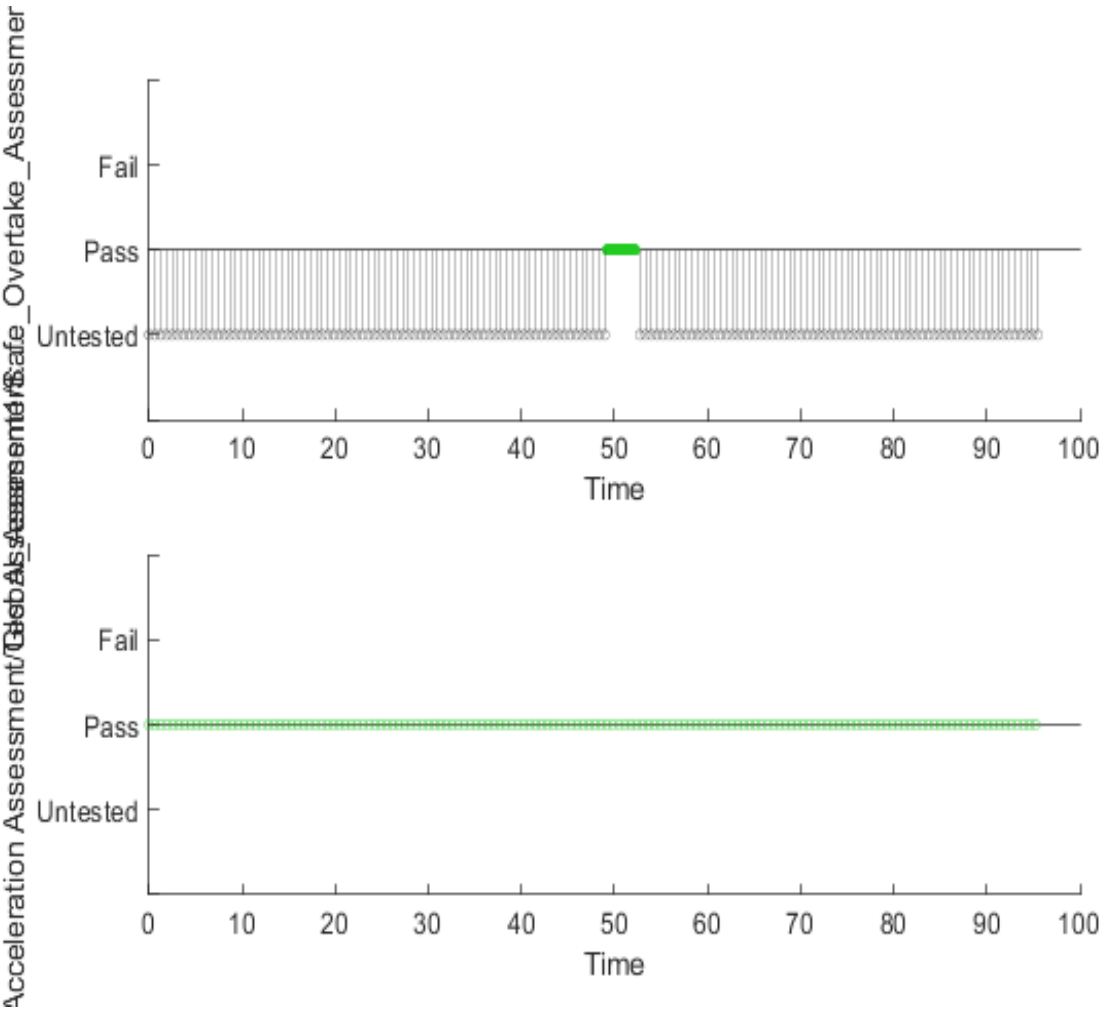
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

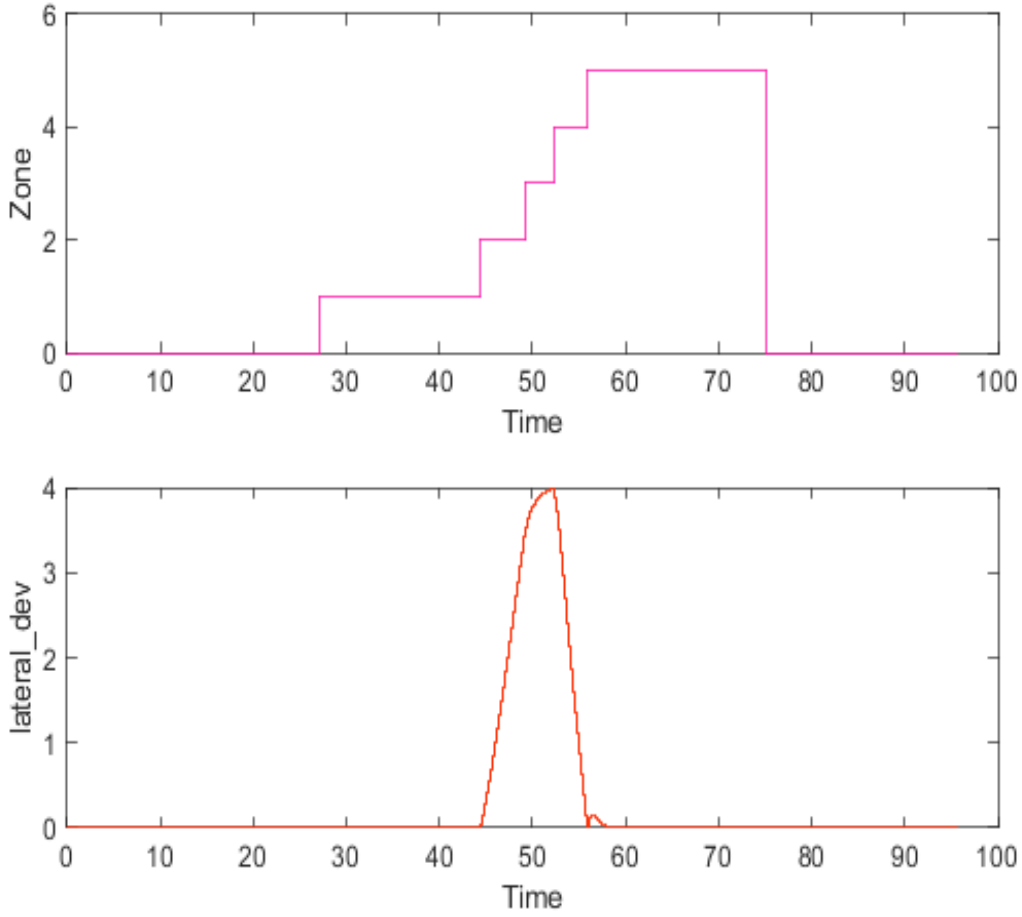
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	95.77691579916322
Checksum:	1992933644 868435553 2096975254 3134451174

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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45° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:28:00

End Time: 26-May-2021 09:28:15
Outcome: Passed

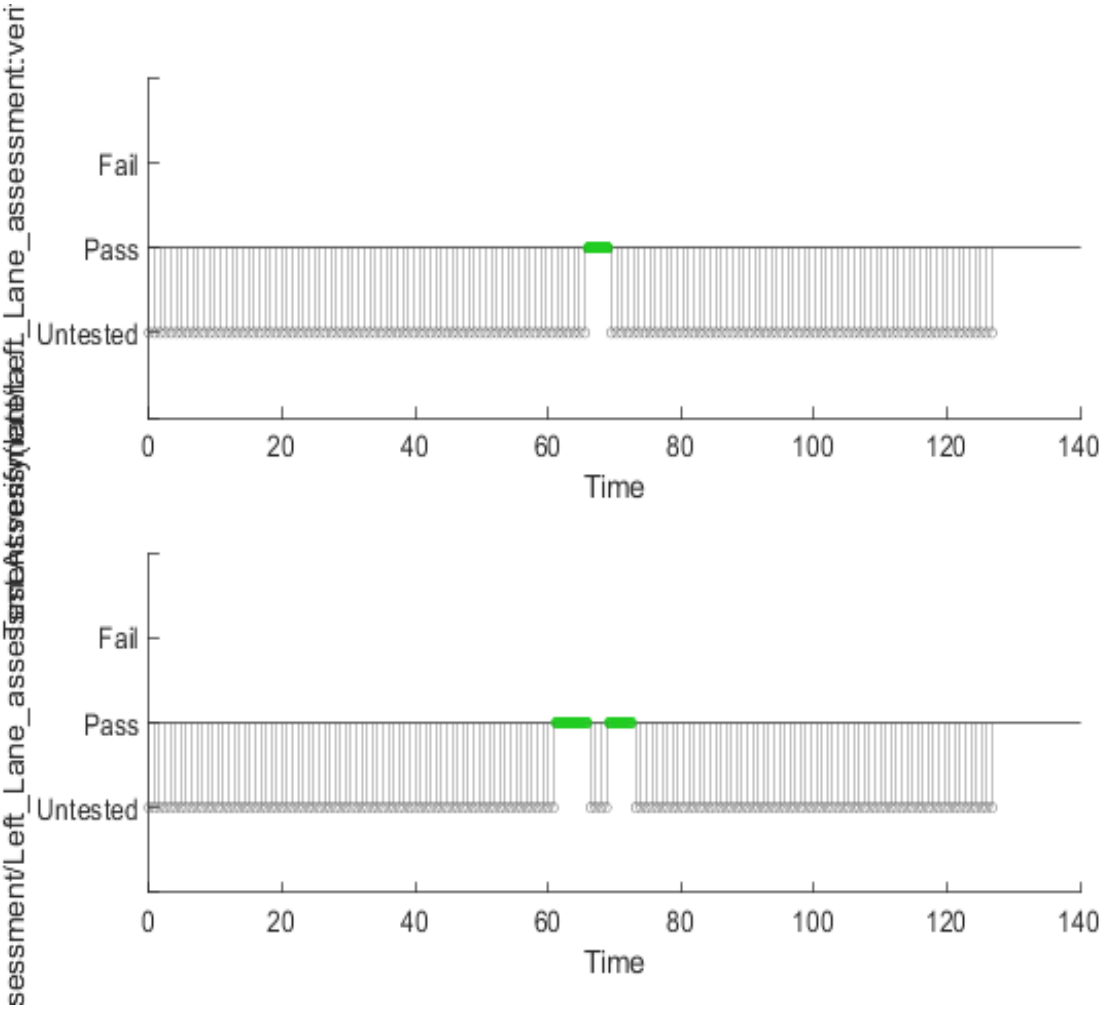
Test Case Information

Name: 45° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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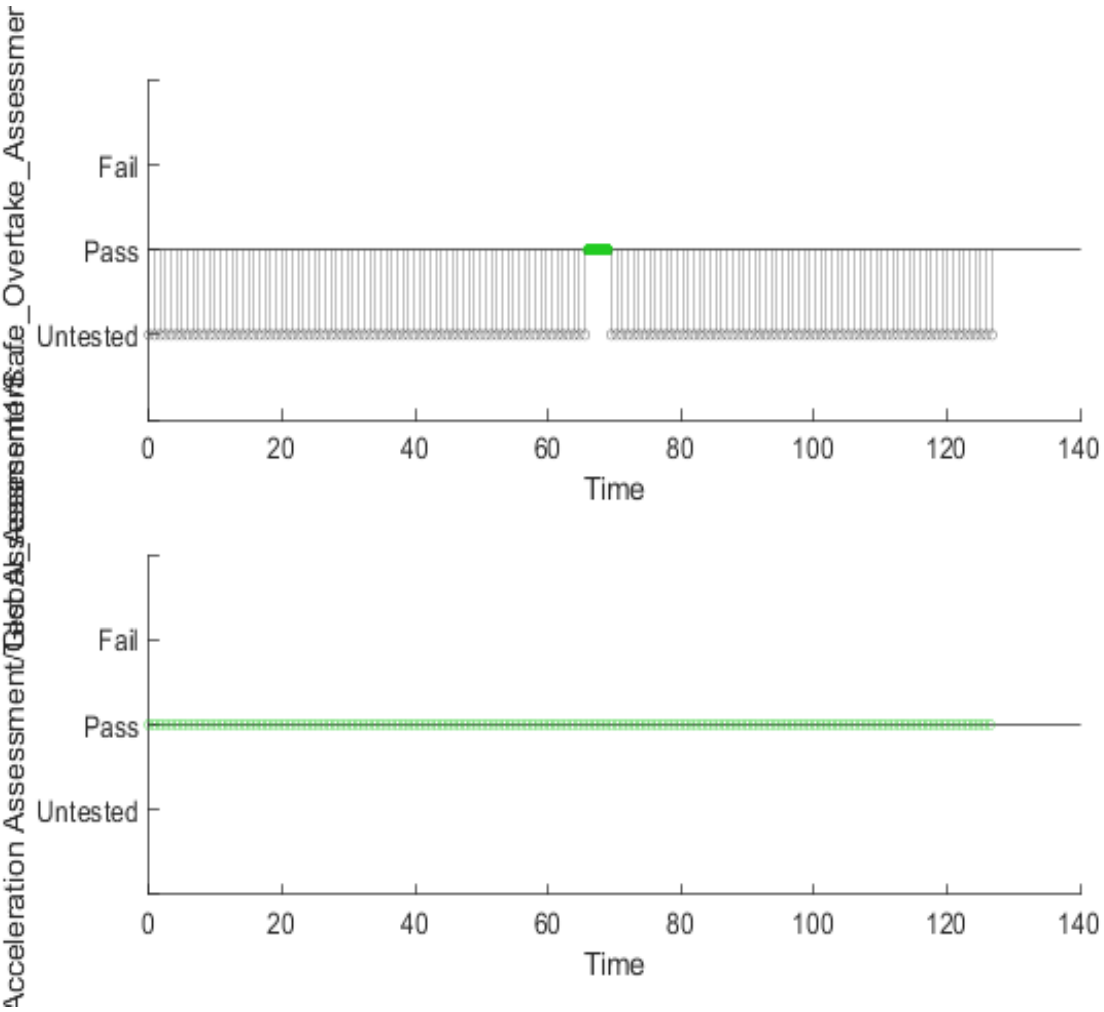
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

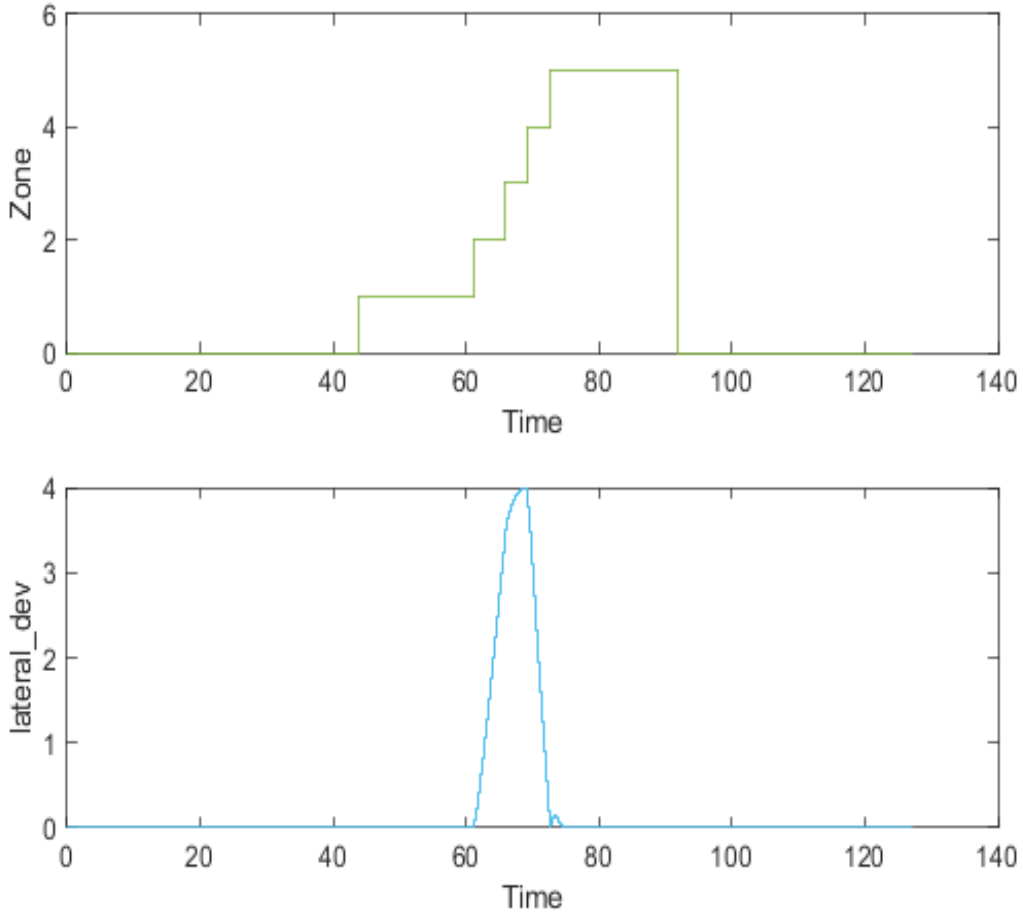
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	127.27922061357856
Checksum:	569310171 2211090829 1651512049 4205803728

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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70° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:28:16

End Time: 26-May-2021 09:29:00
Outcome: Passed

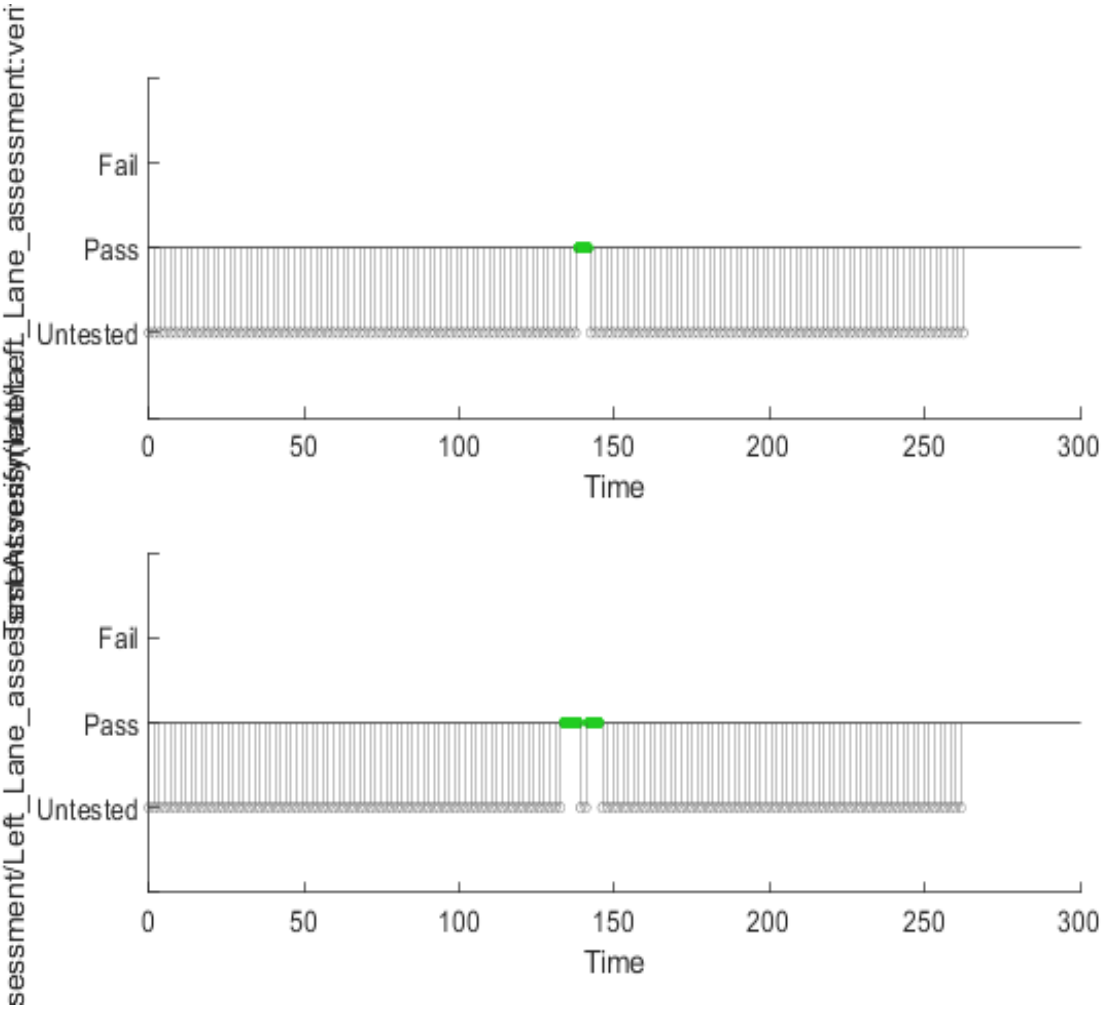
Test Case Information

Name: 70° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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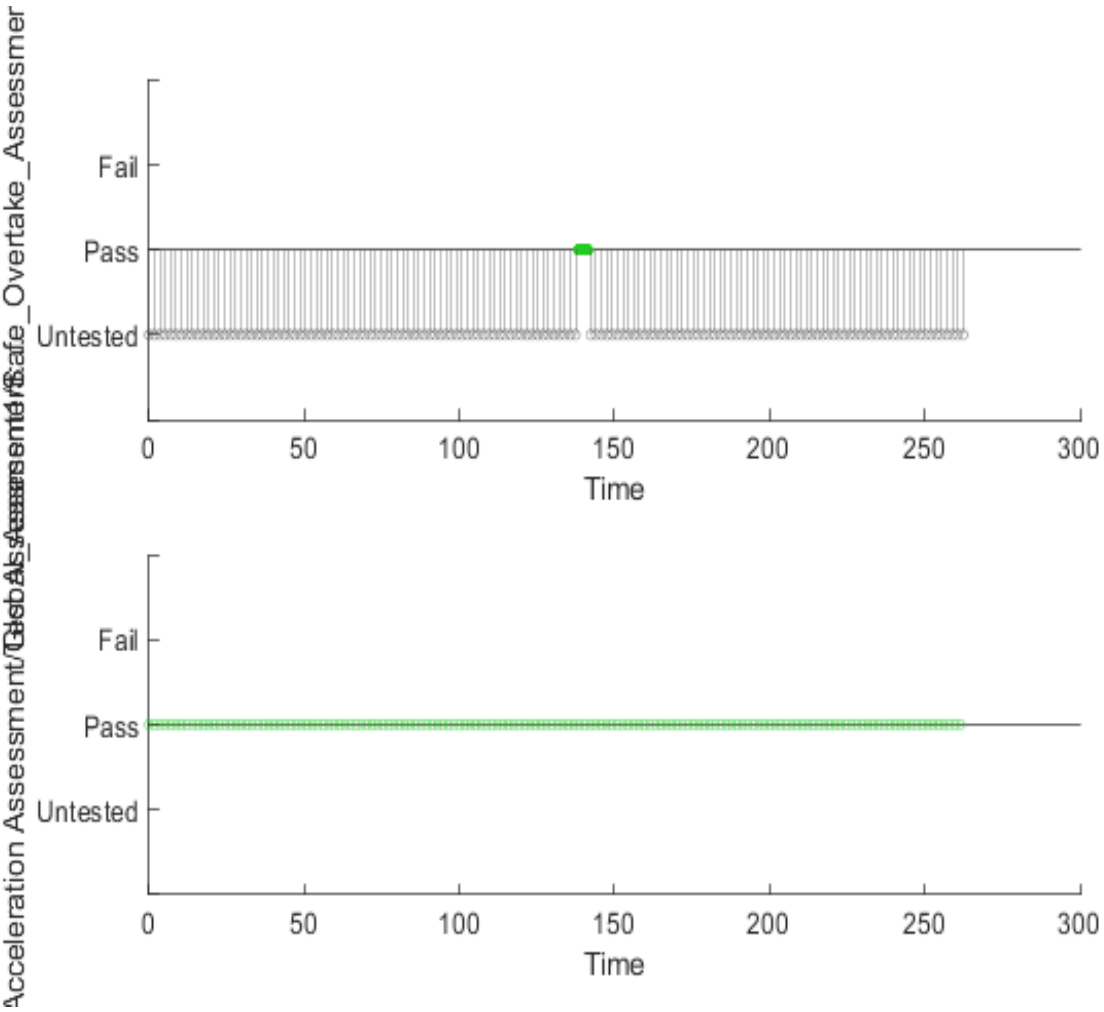
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

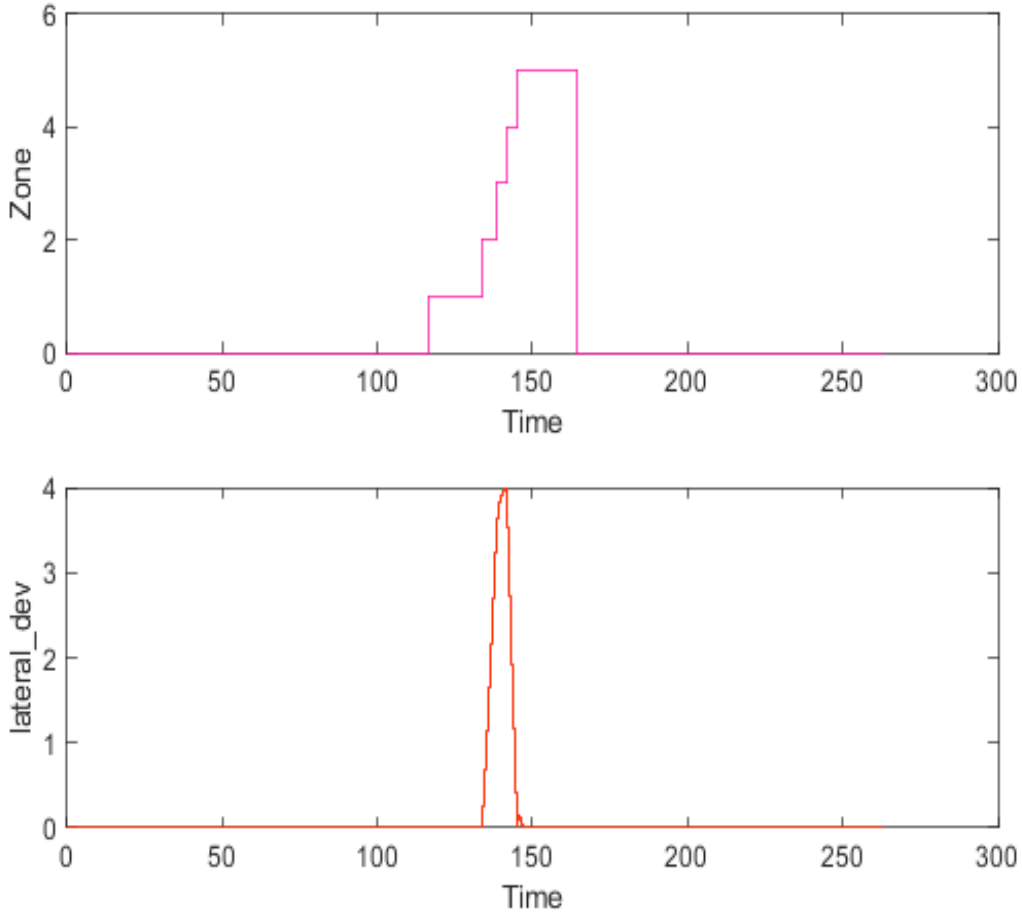
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	263.10201994663595
Checksum:	3739455259 2778391450 2876728504 3497399858

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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90° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:29:00

End Time: 26-May-2021 09:29:11
Outcome: Passed

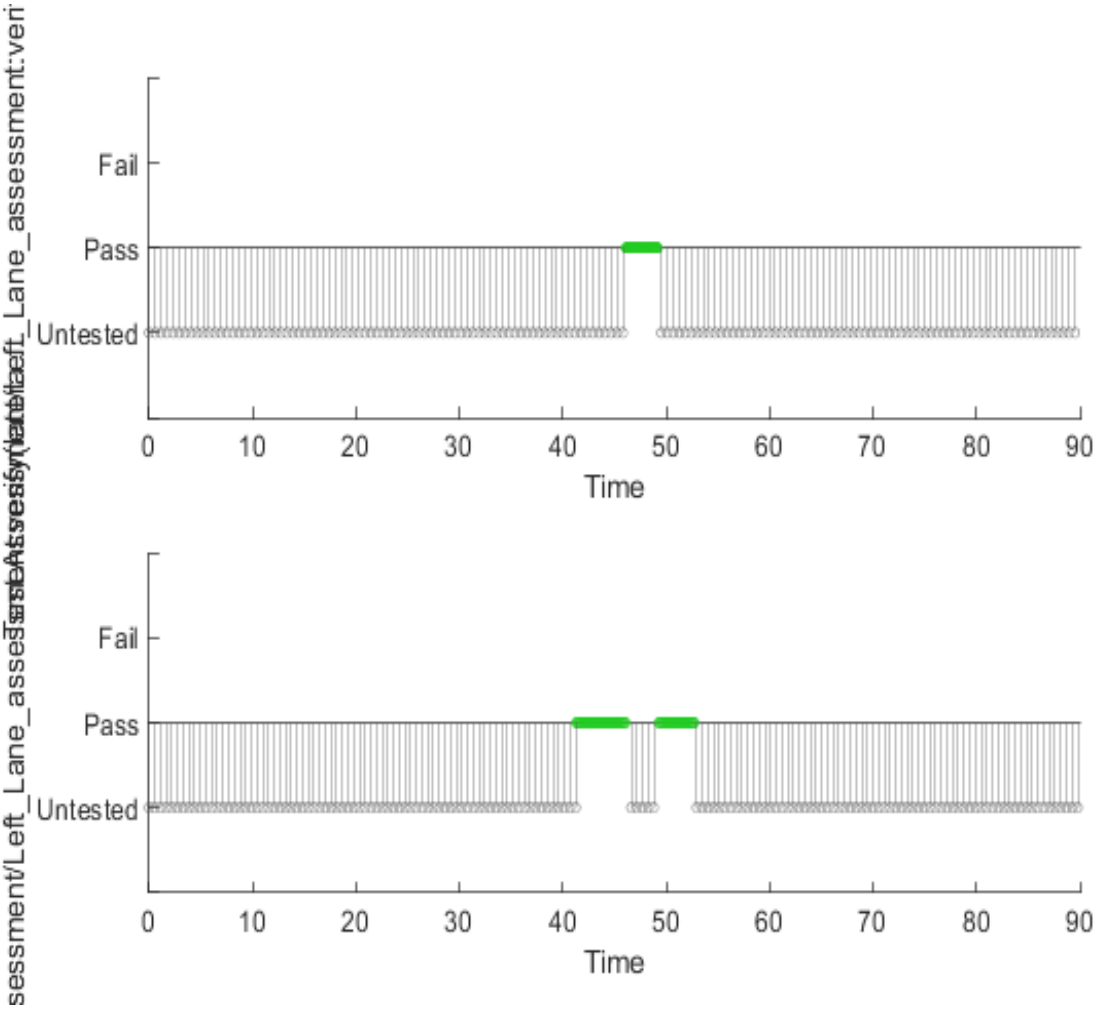
Test Case Information

Name: 90° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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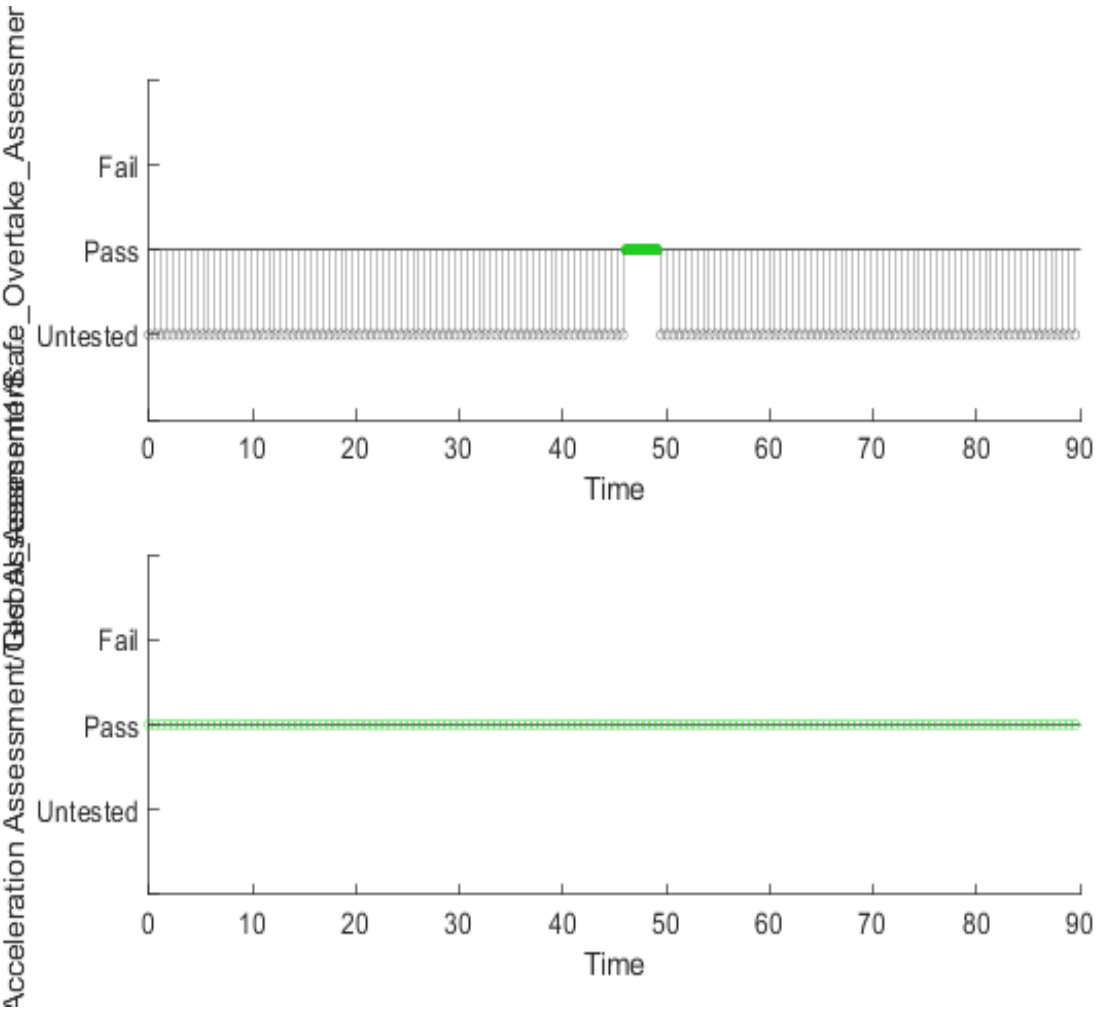
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

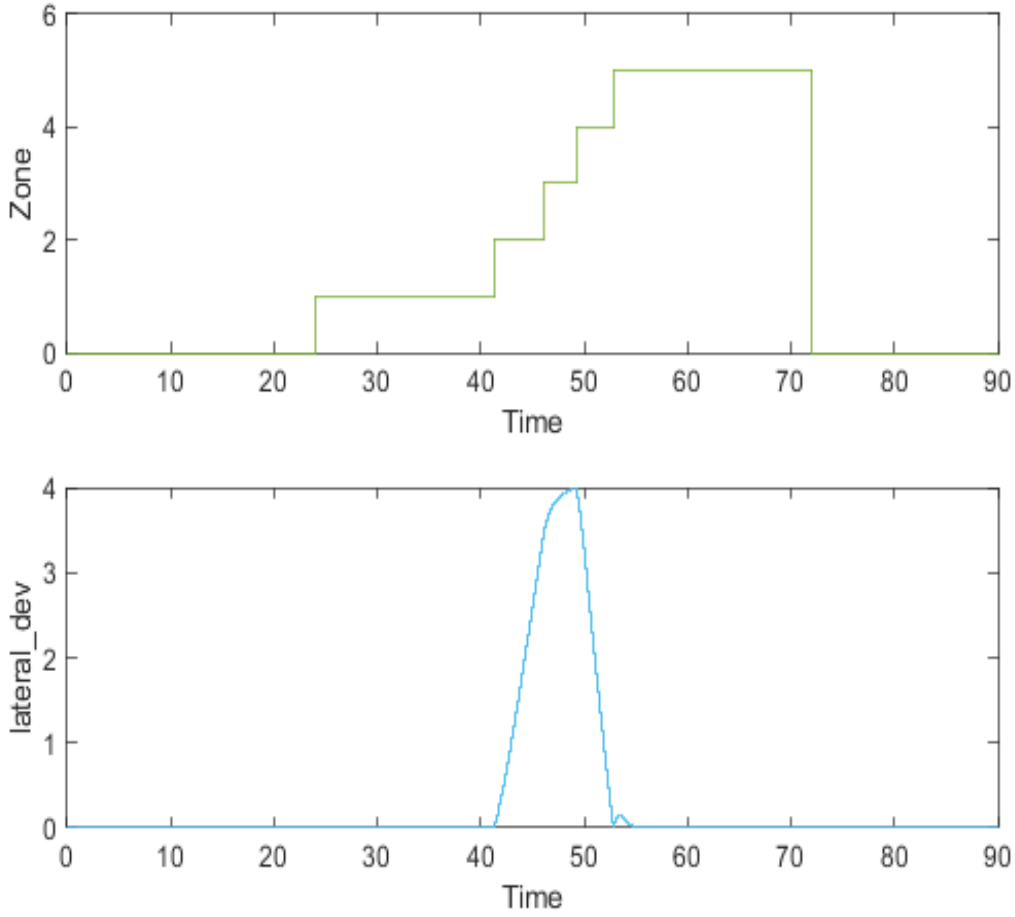
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	90
Checksum:	2343644972 1908336964 2890382273 1274090410

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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110° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:29:11

End Time: 26-May-2021 09:29:23
Outcome: Passed

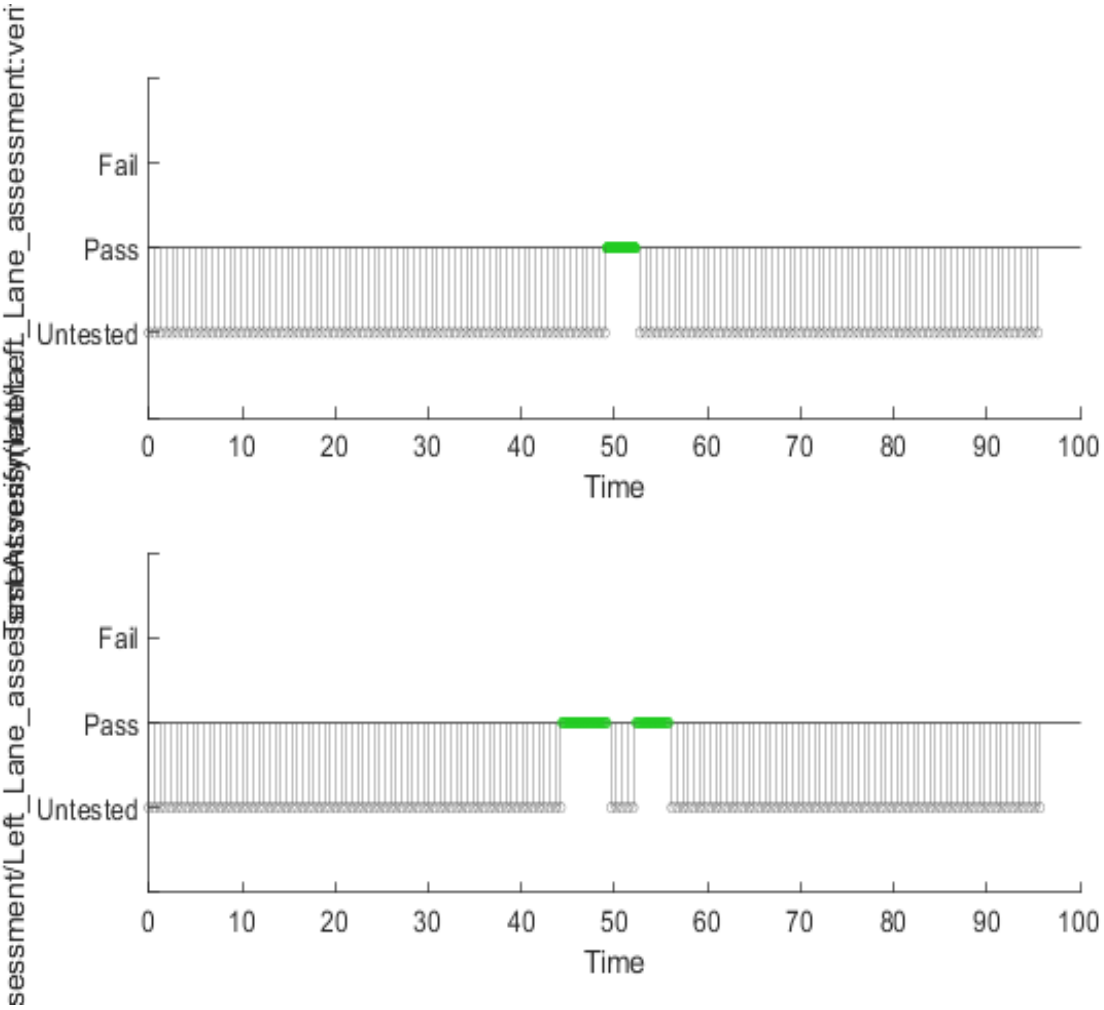
Test Case Information

Name: 110° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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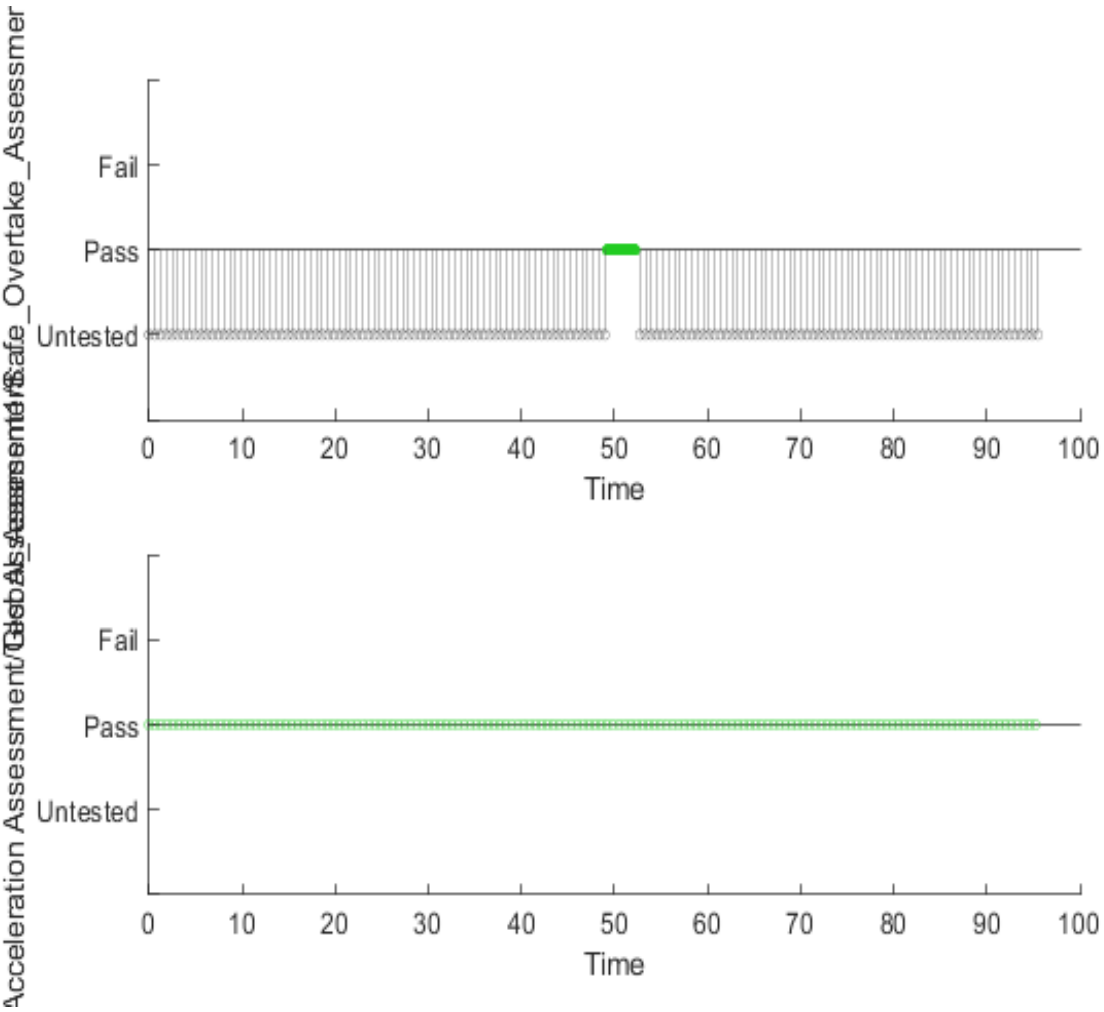
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

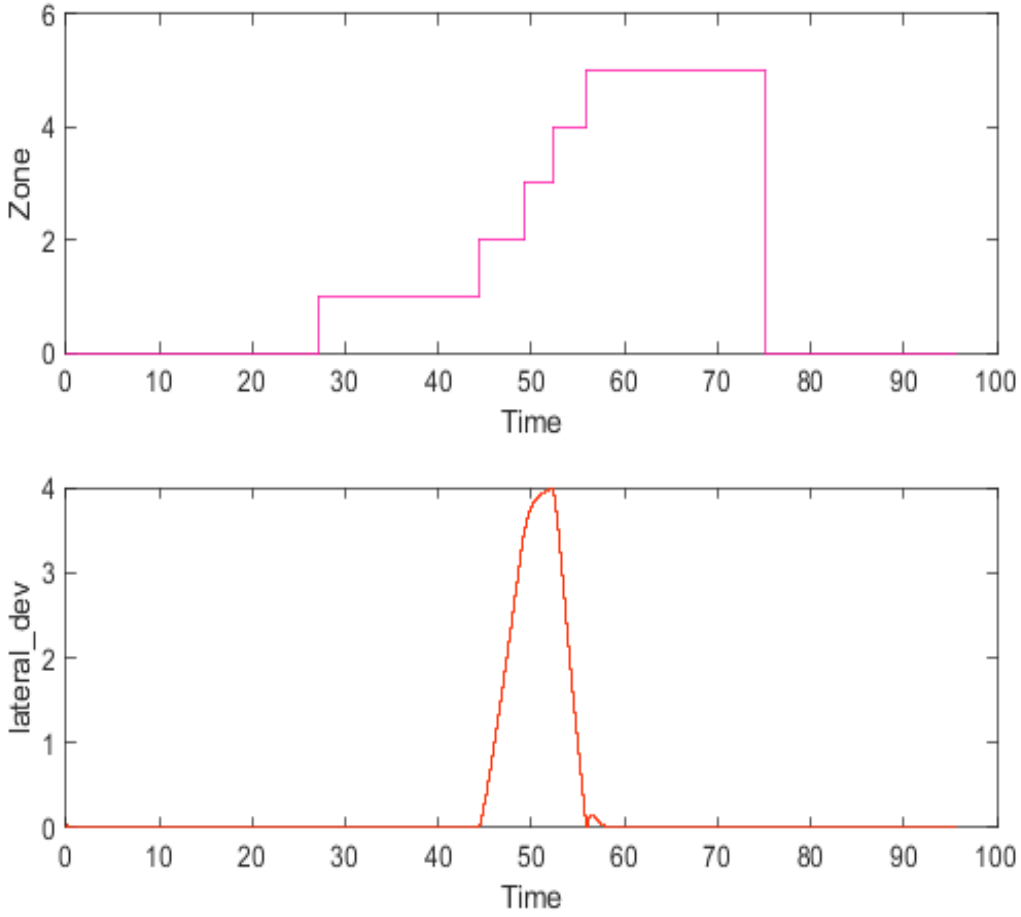
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	95.77691579916322
Checksum:	1992933644 868435553 2096975254 3134451174

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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135° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:29:23

End Time: 26-May-2021 09:29:37
Outcome: Passed

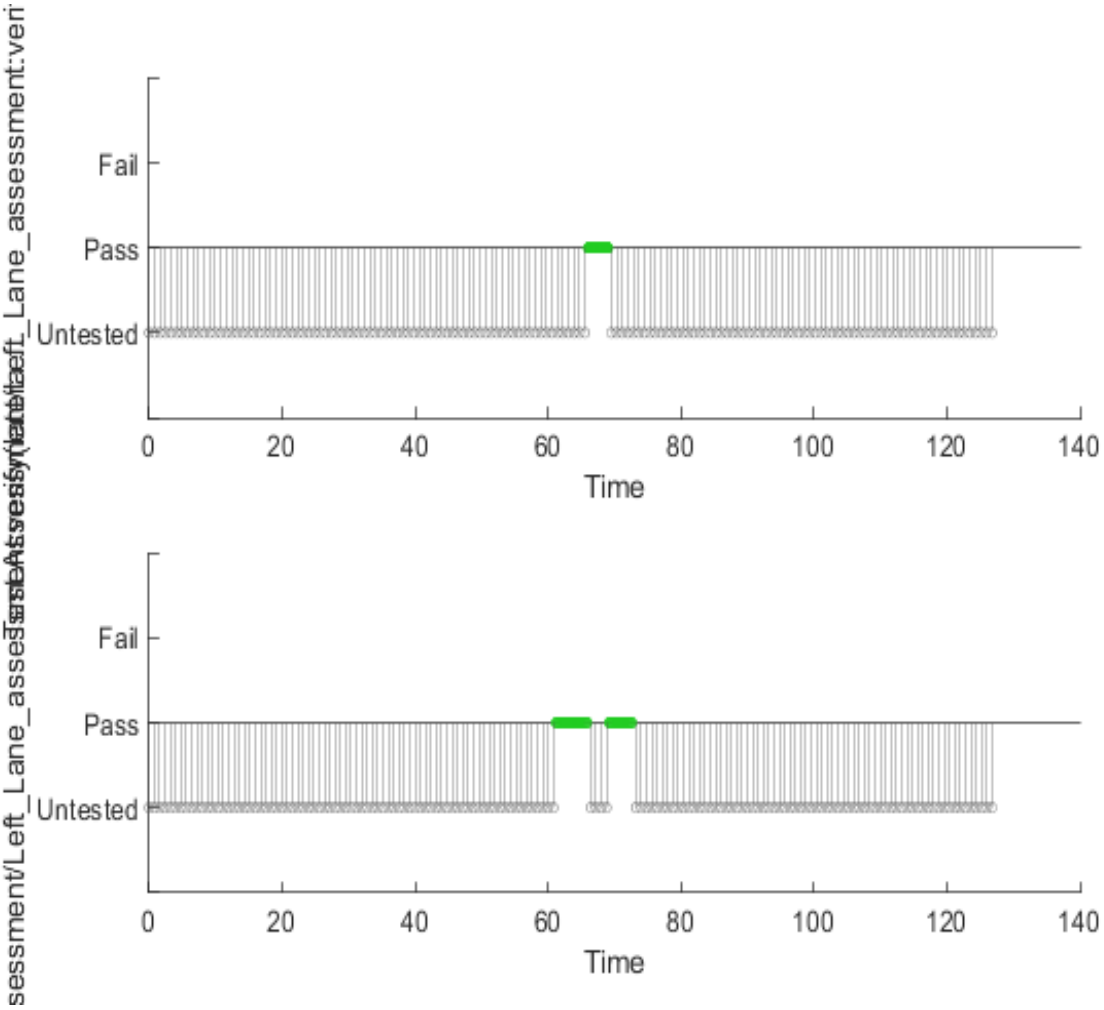
Test Case Information

Name: 135° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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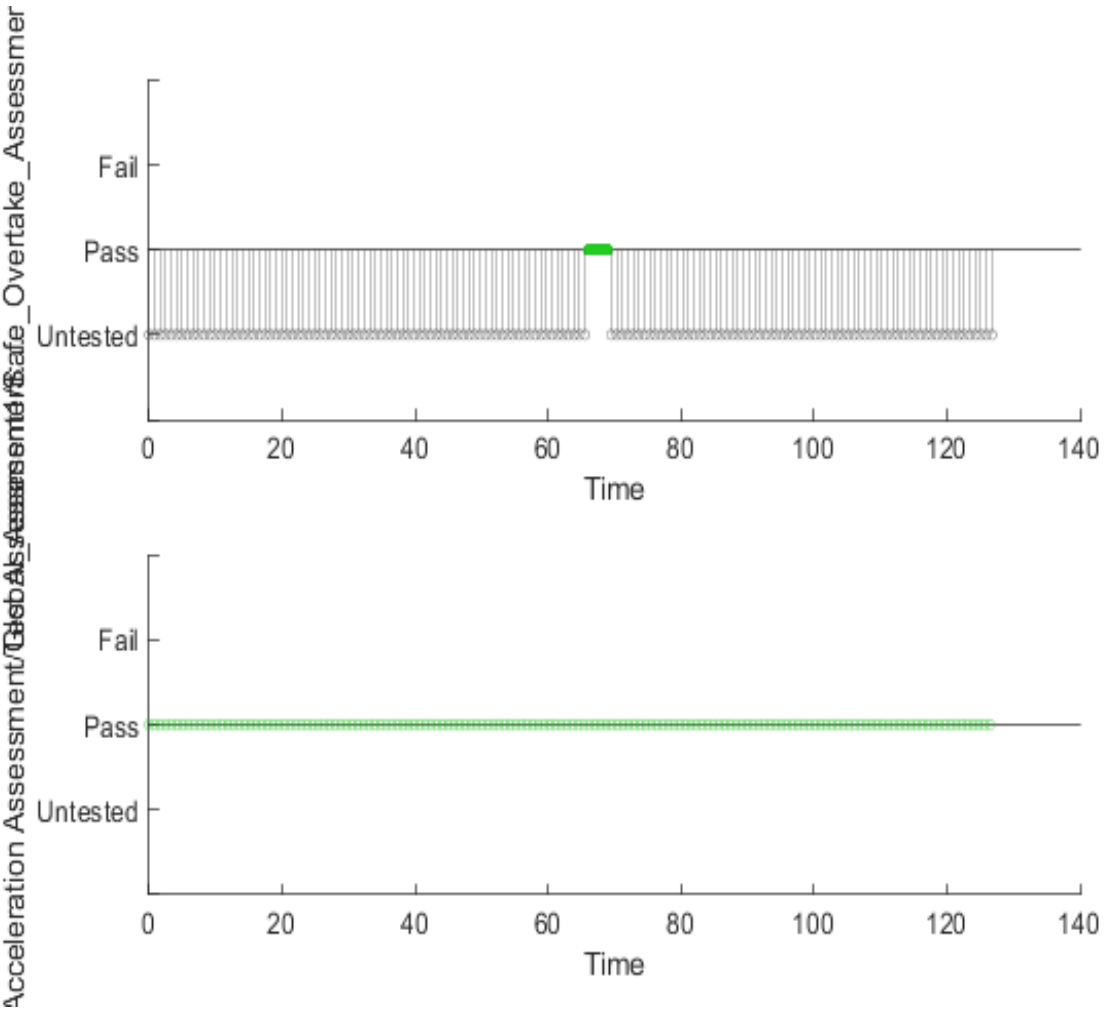
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

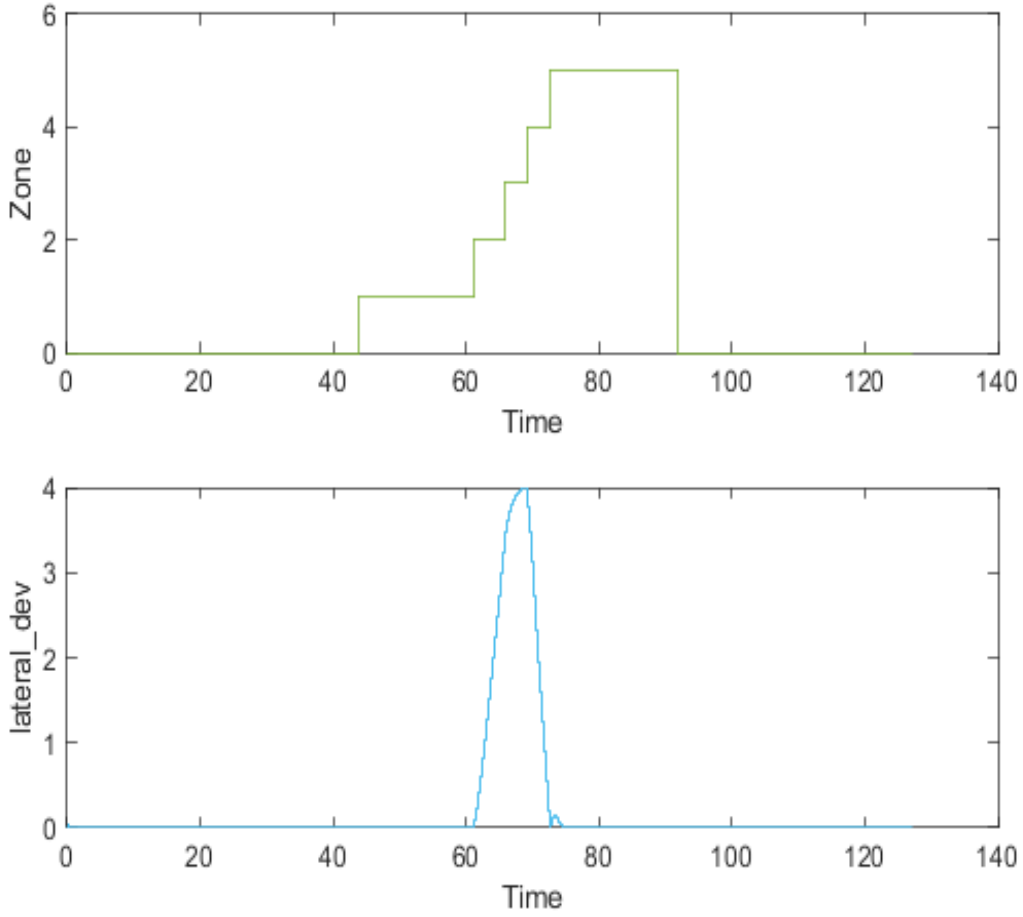
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	127.27922061357856
Checksum:	569310171 2211090829 1651512049 4205803728

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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160° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:29:37

End Time: 26-May-2021 09:30:12
Outcome: Passed

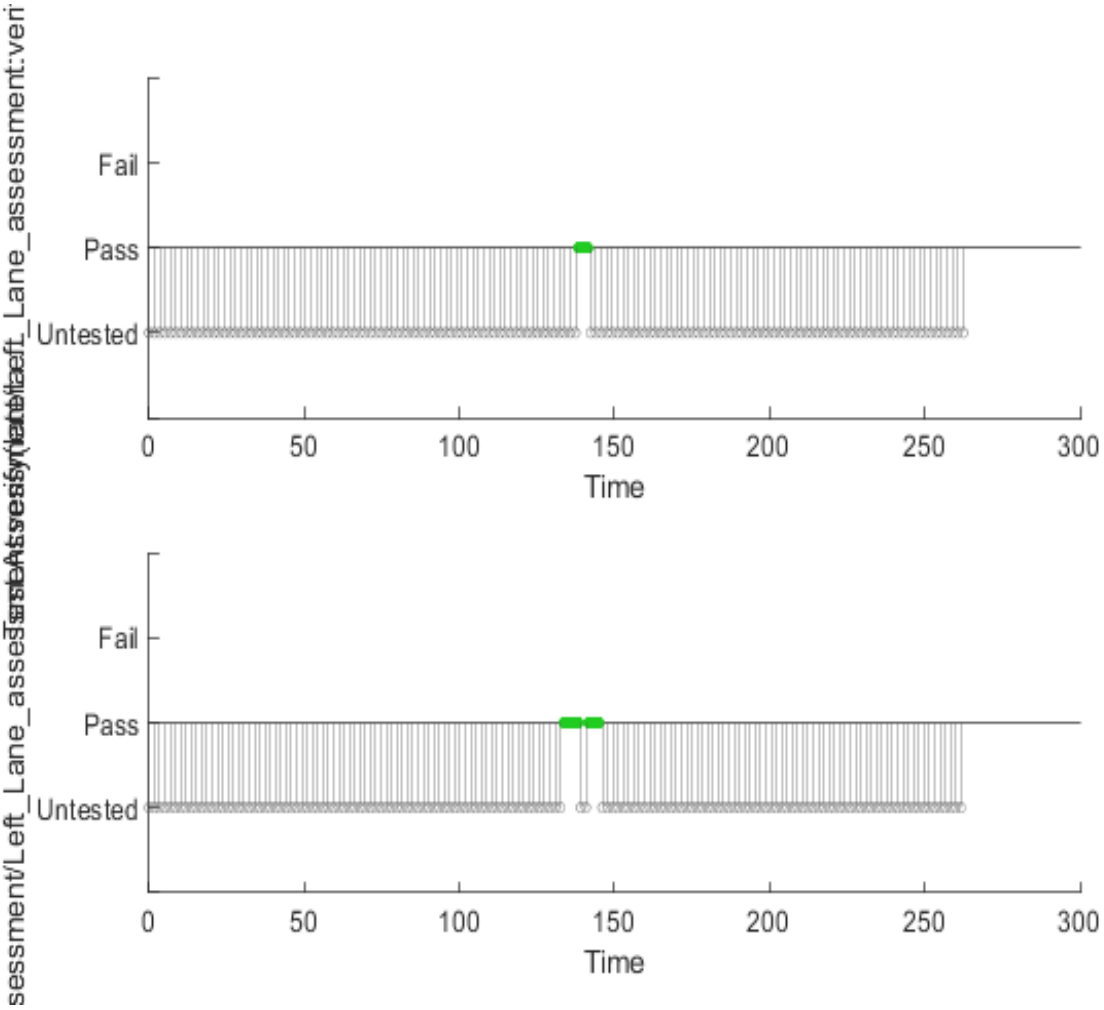
Test Case Information

Name: 160° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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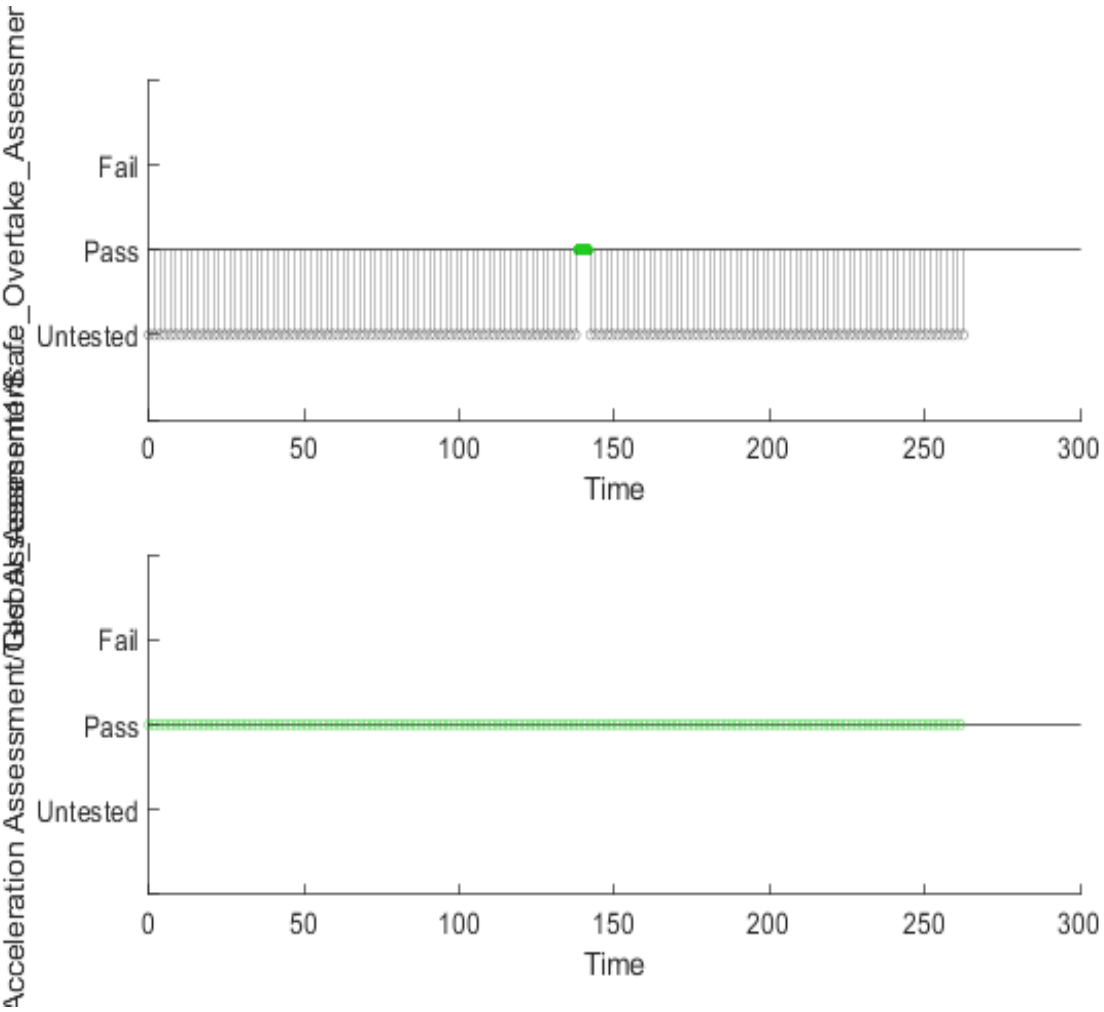
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

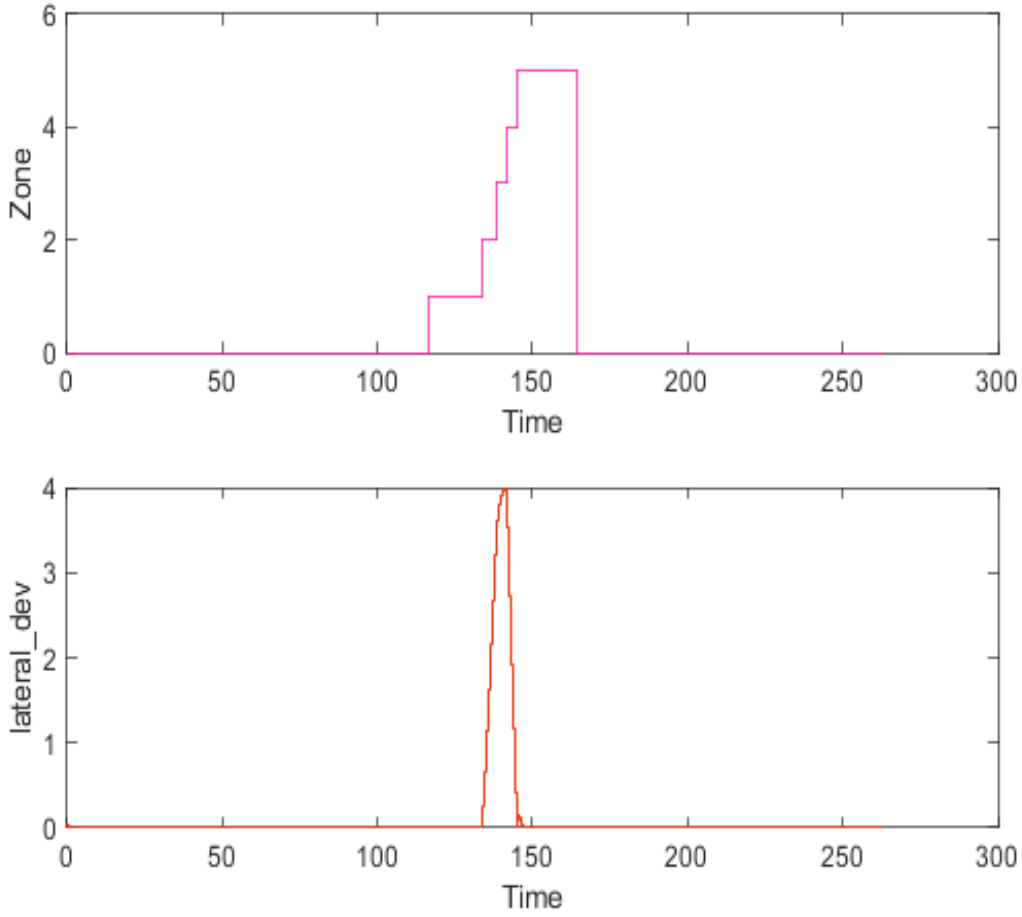
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	263.10201994663595
Checksum:	3739455259 2778391450 2876728504 3497399858

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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180° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:30:12

End Time: 26-May-2021 09:30:23
Outcome: Passed

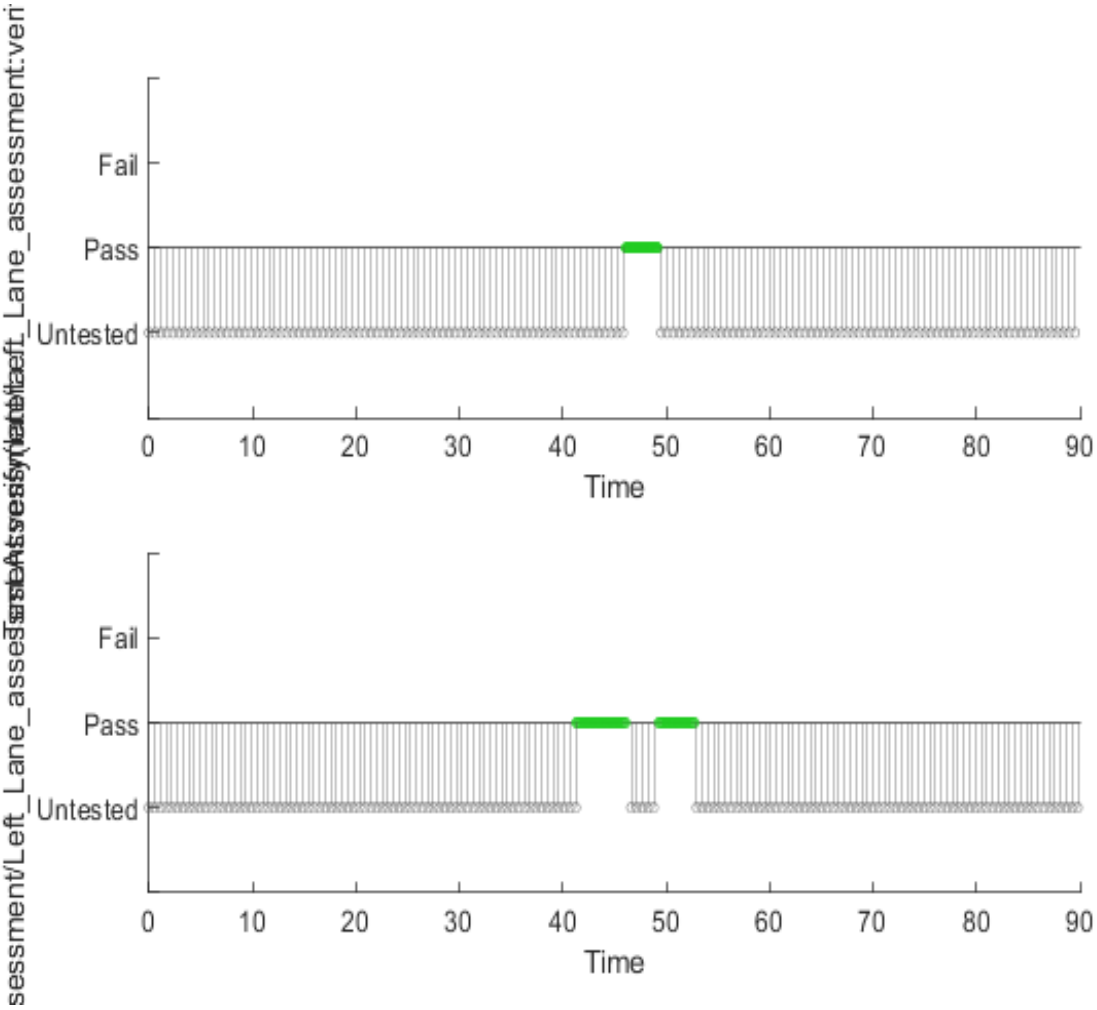
Test Case Information

Name: 180° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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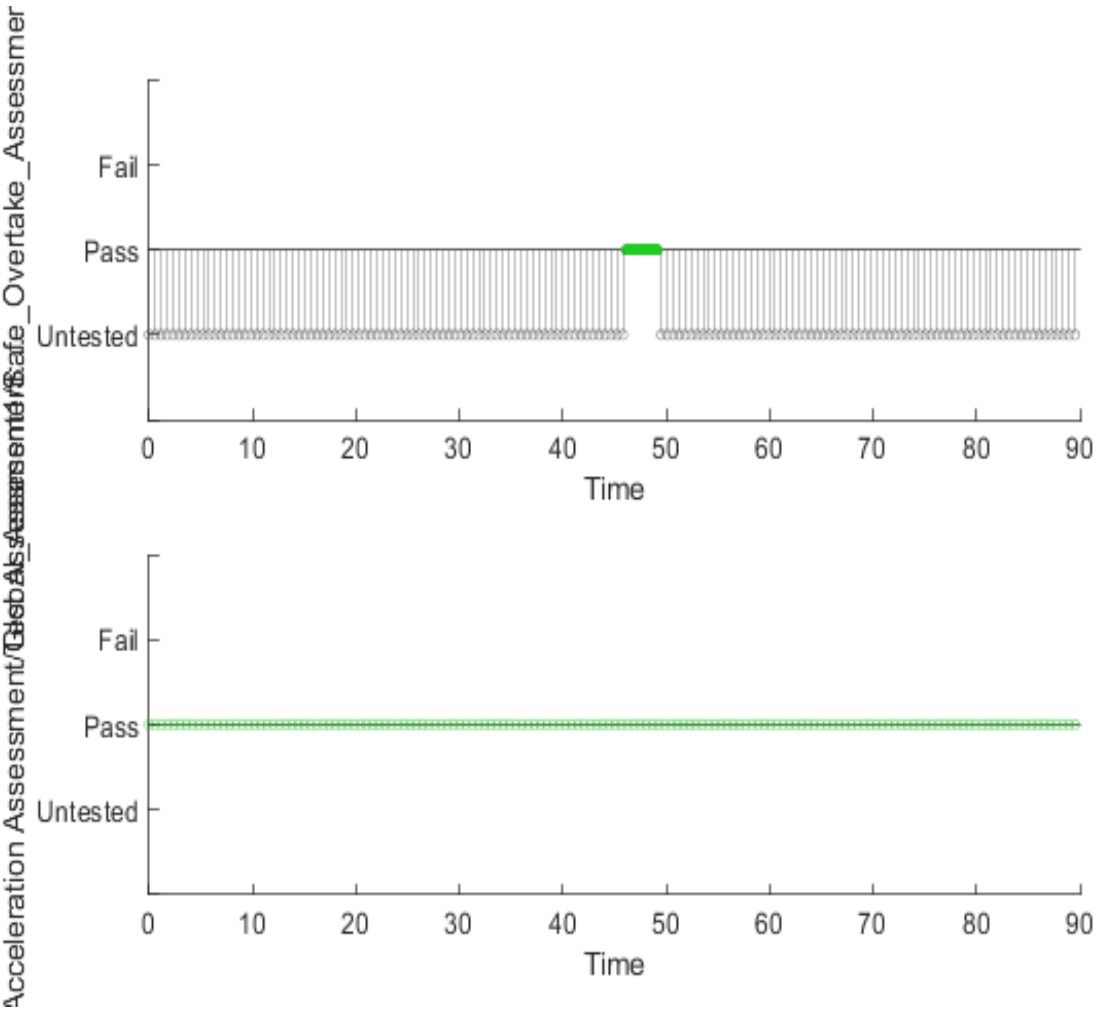
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

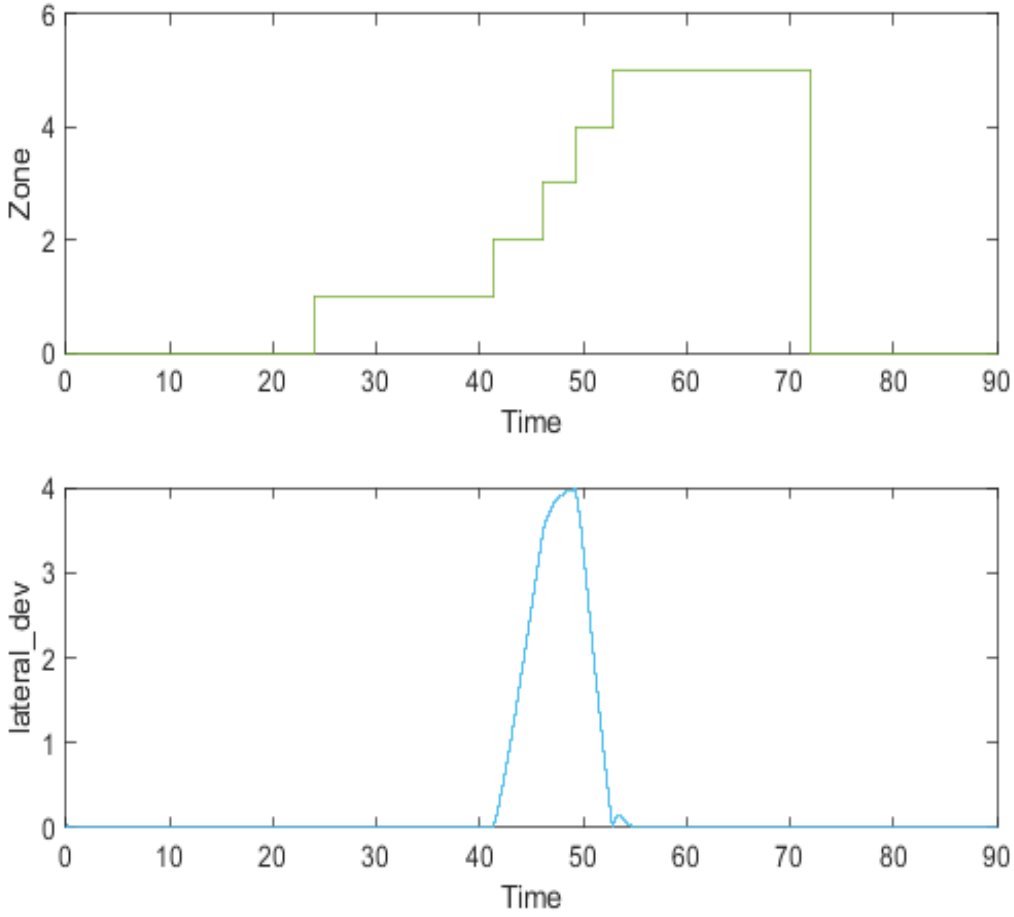
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	90
Checksum:	2343644972 1908336964 2890382273 1274090410

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-20° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:30:23

End Time: 26-May-2021 09:30:36
Outcome: Passed

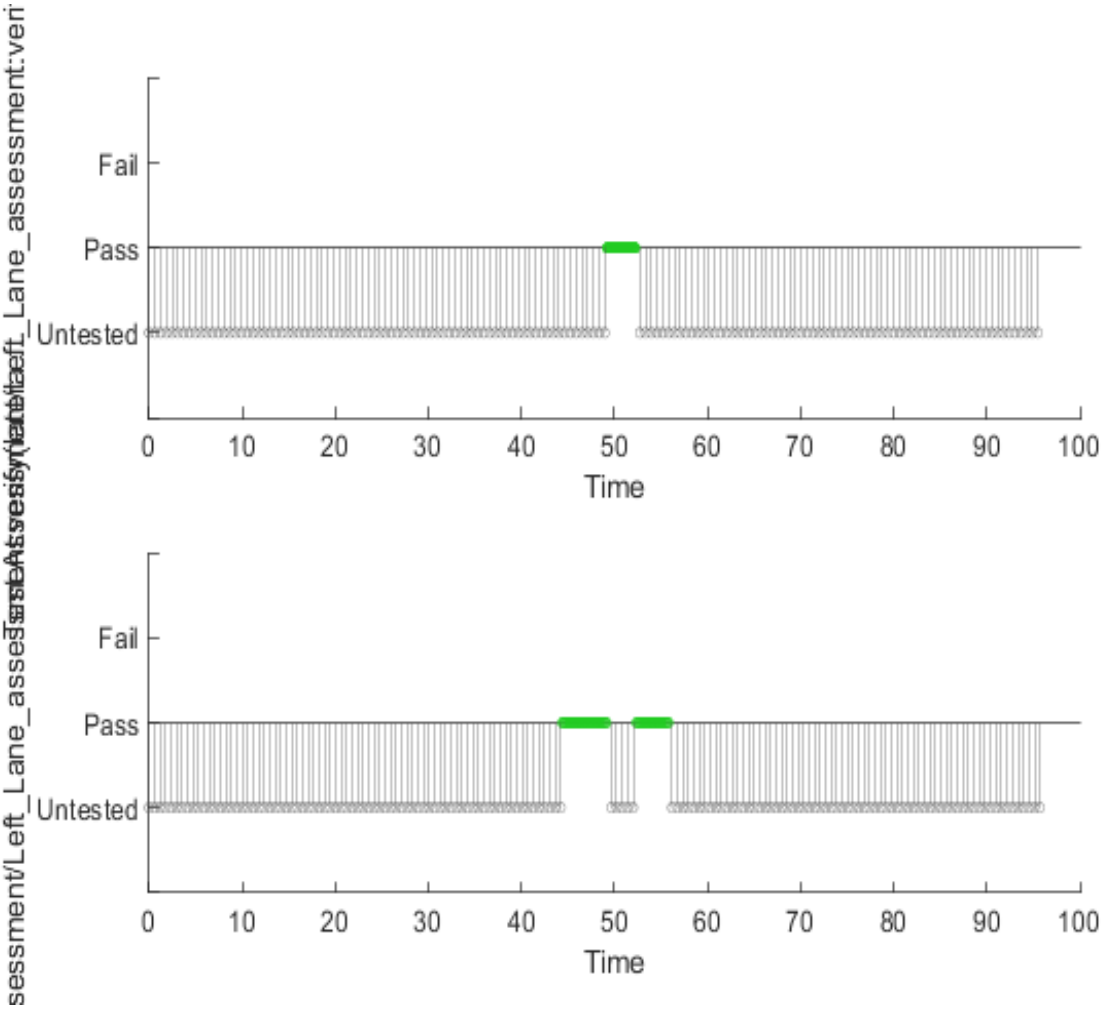
Test Case Information

Name: -20° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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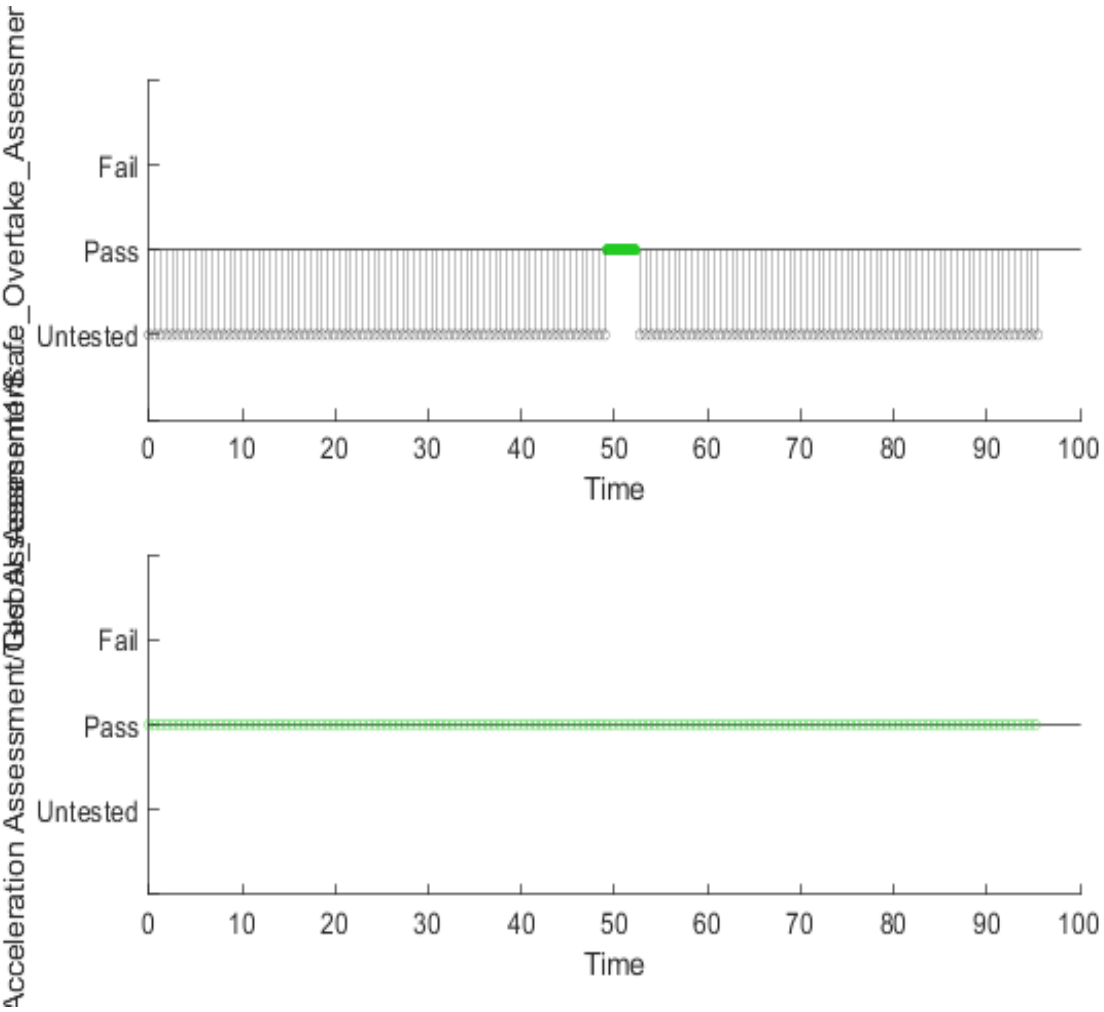
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

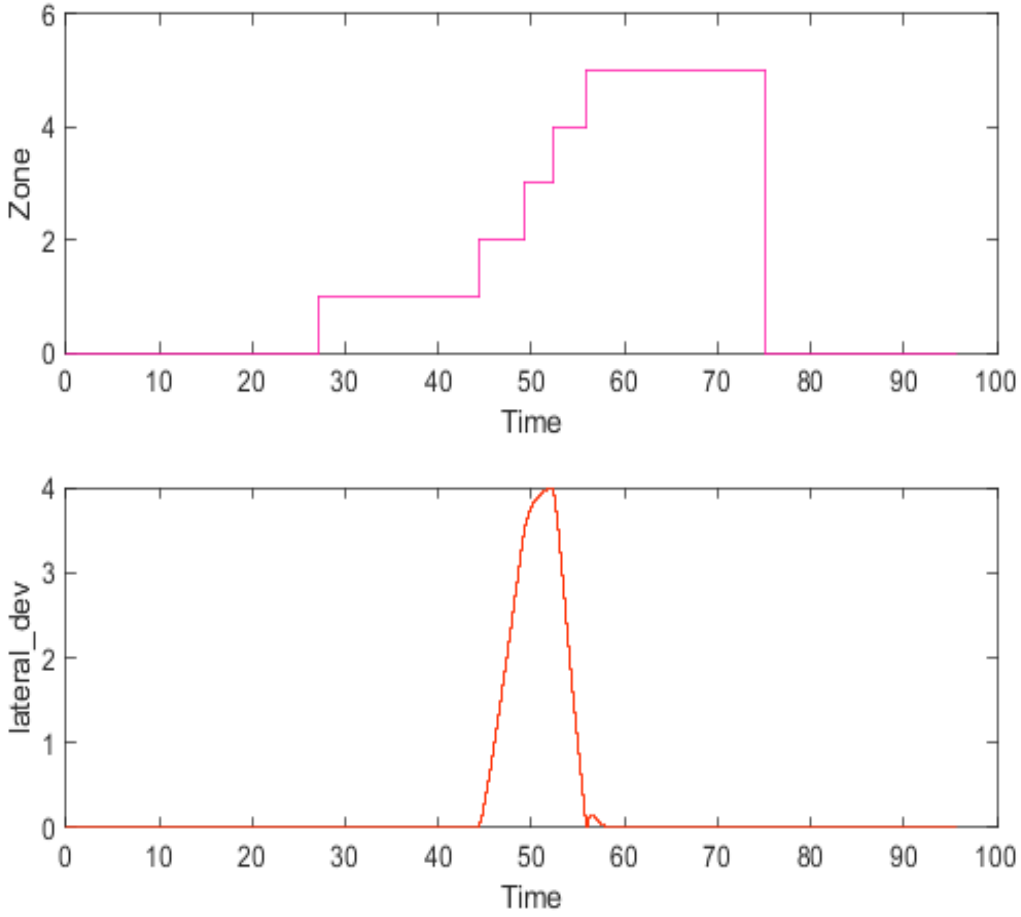
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	95.77691579916322
Checksum:	1992933644 868435553 2096975254 3134451174

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-45° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:30:36

End Time: 26-May-2021 09:30:55
Outcome: Passed

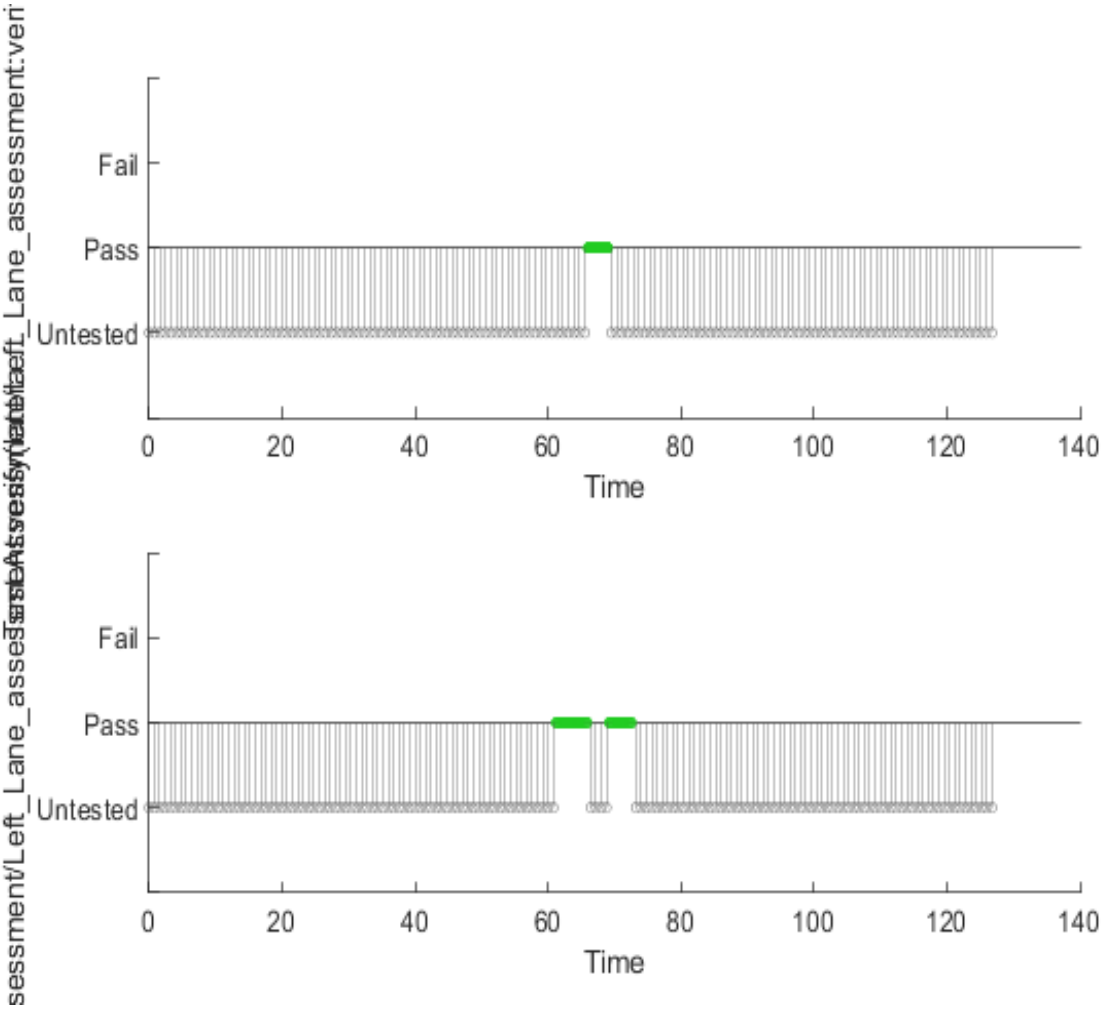
Test Case Information

Name: -45° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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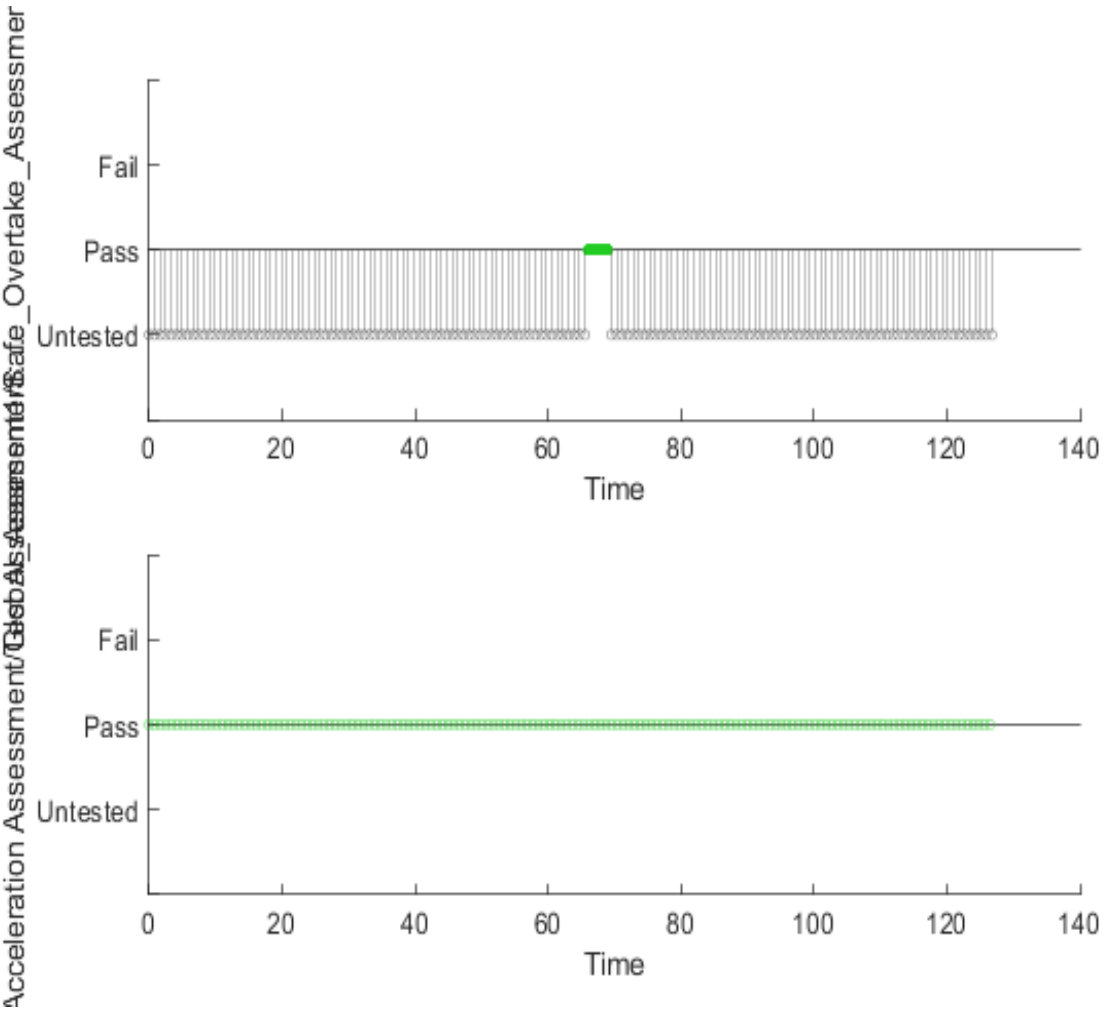
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

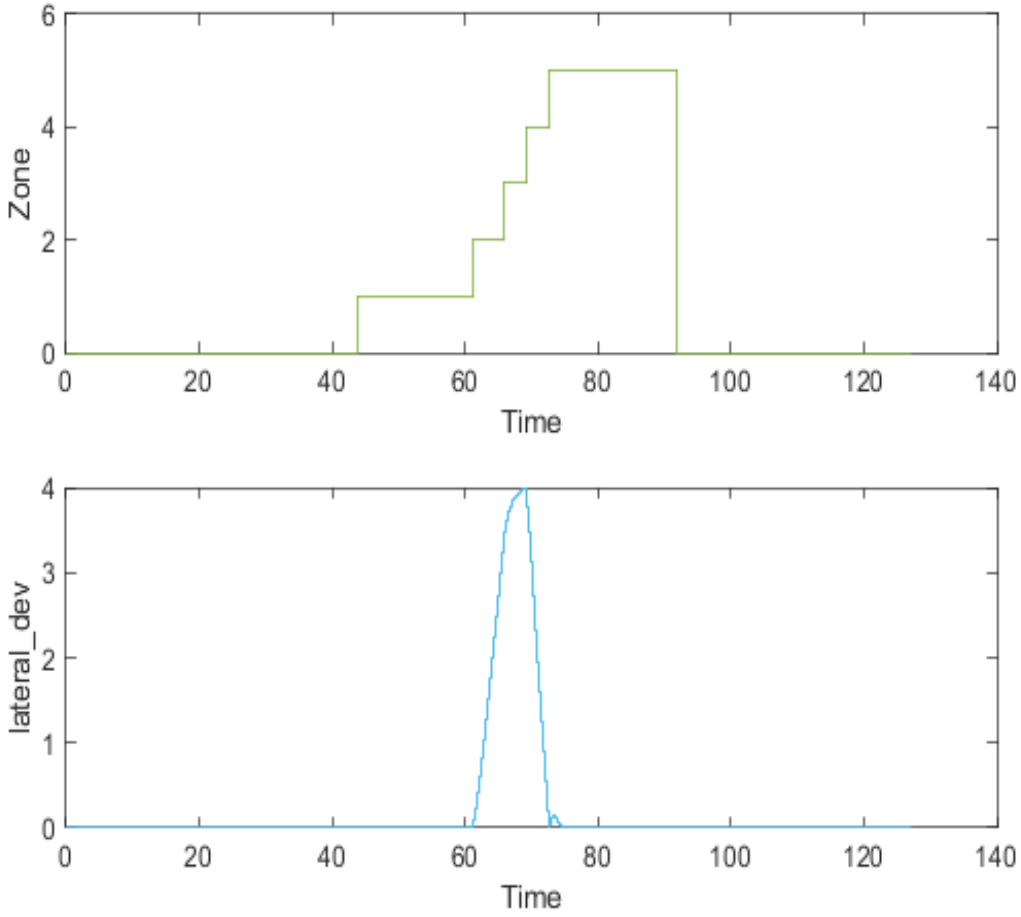
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	127.27922061357856
Checksum:	569310171 2211090829 1651512049 4205803728

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-70° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:30:56

End Time: 26-May-2021 09:32:00
Outcome: Passed

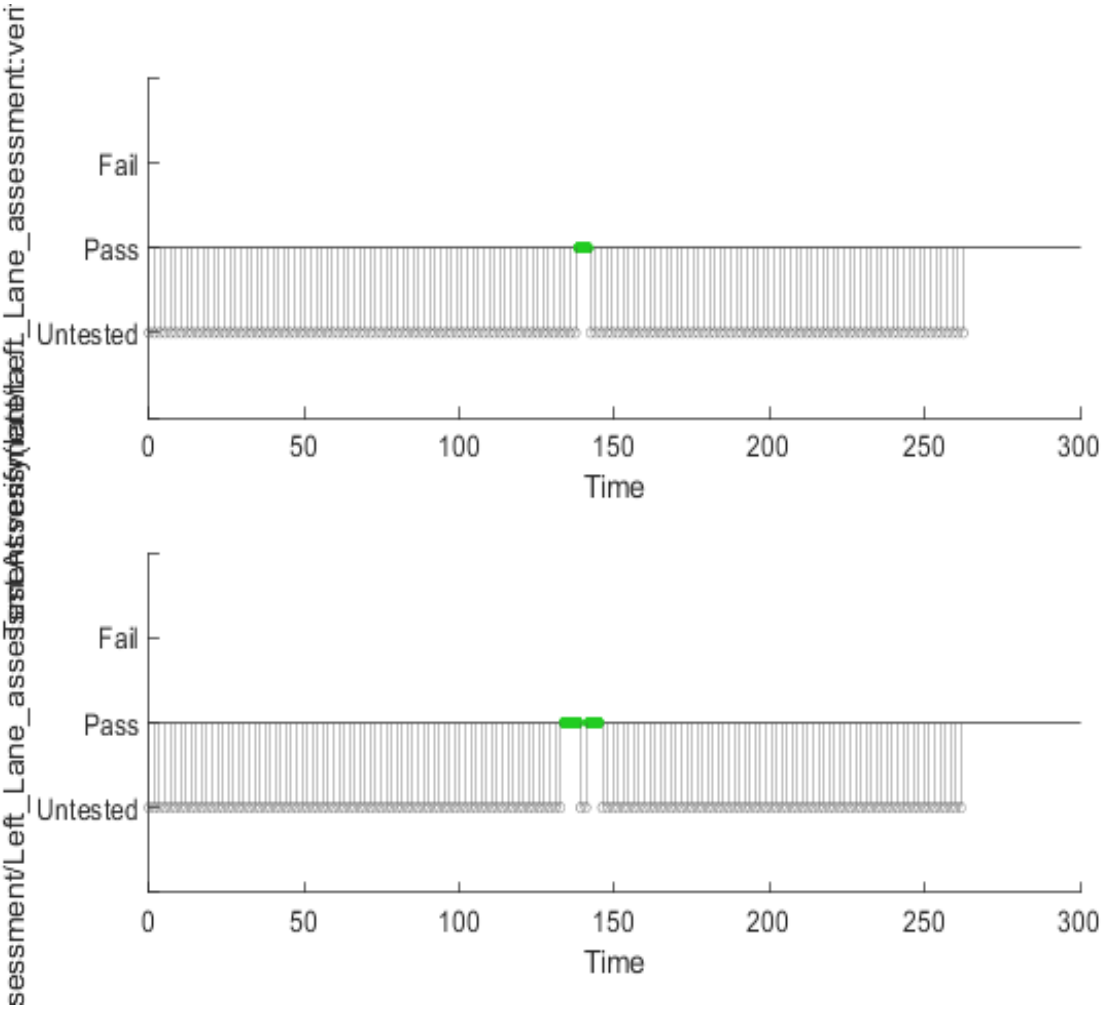
Test Case Information

Name: -70° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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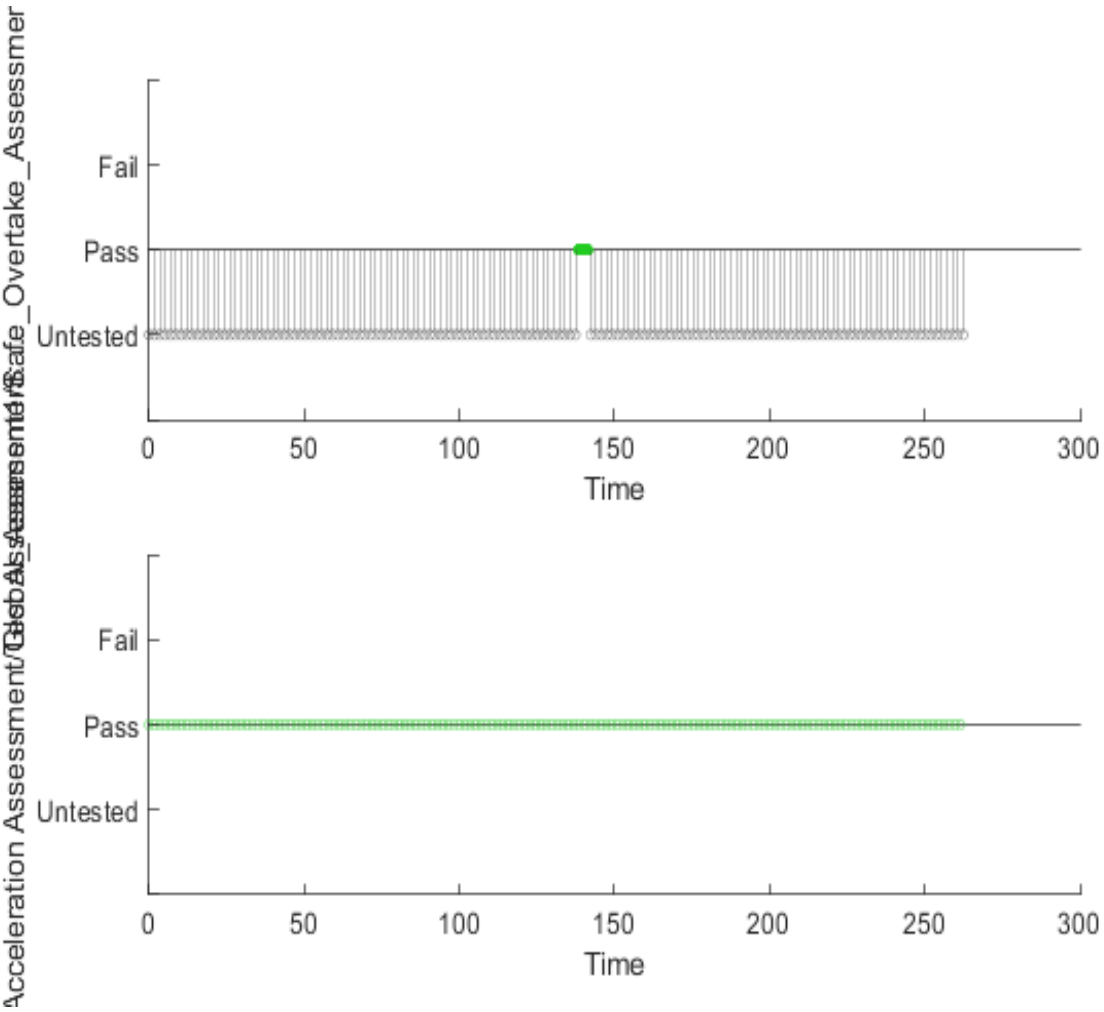
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

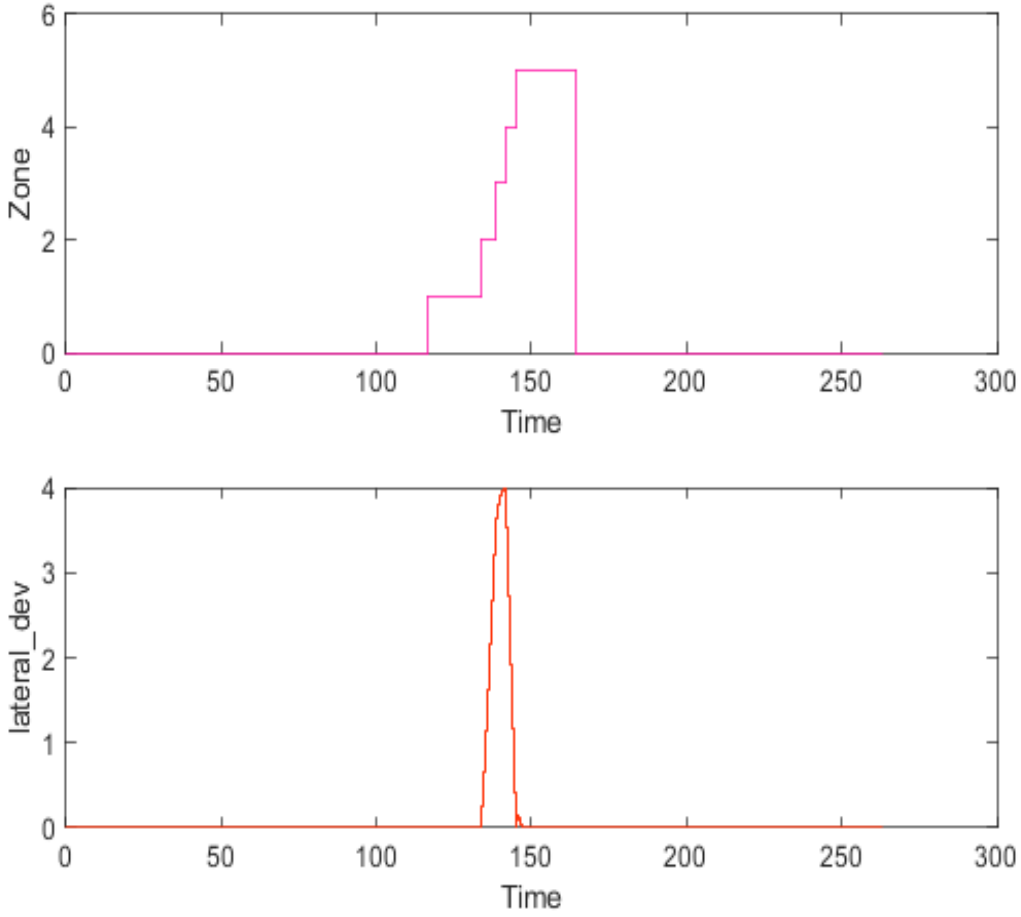
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	263.10201994663595
Checksum:	3739455259 2778391450 2876728504 3497399858

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-90° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:32:00

End Time: 26-May-2021 09:32:14
Outcome: Passed

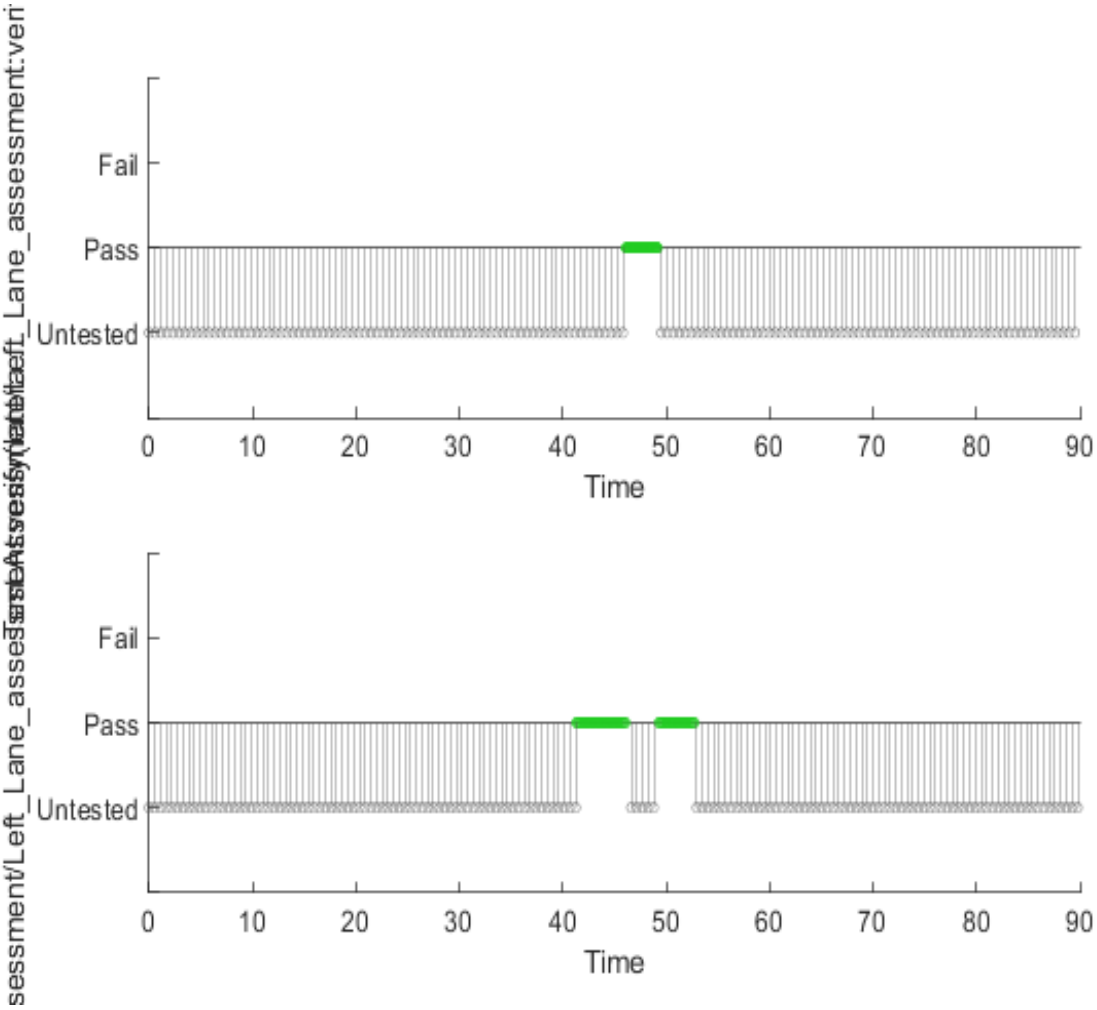
Test Case Information

Name: -90° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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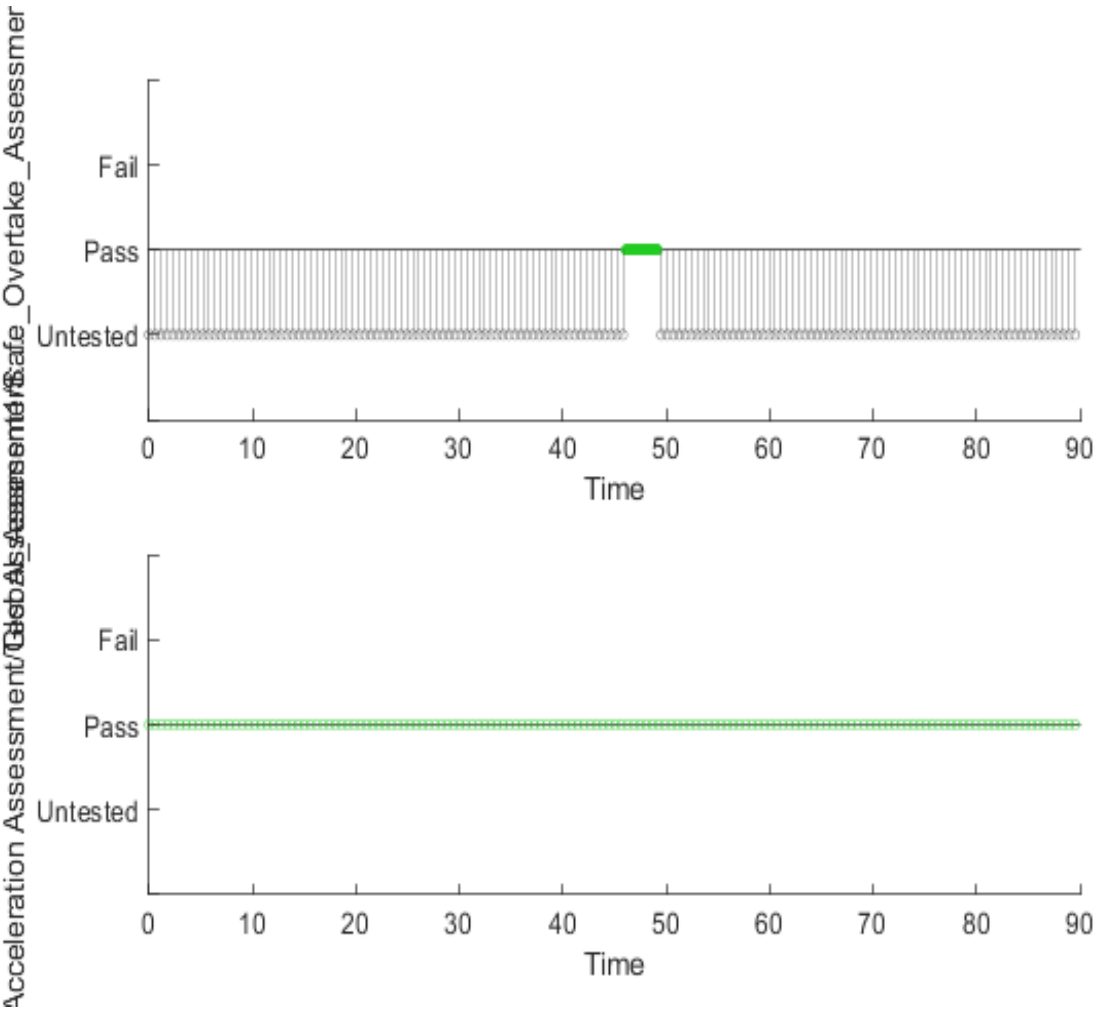
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

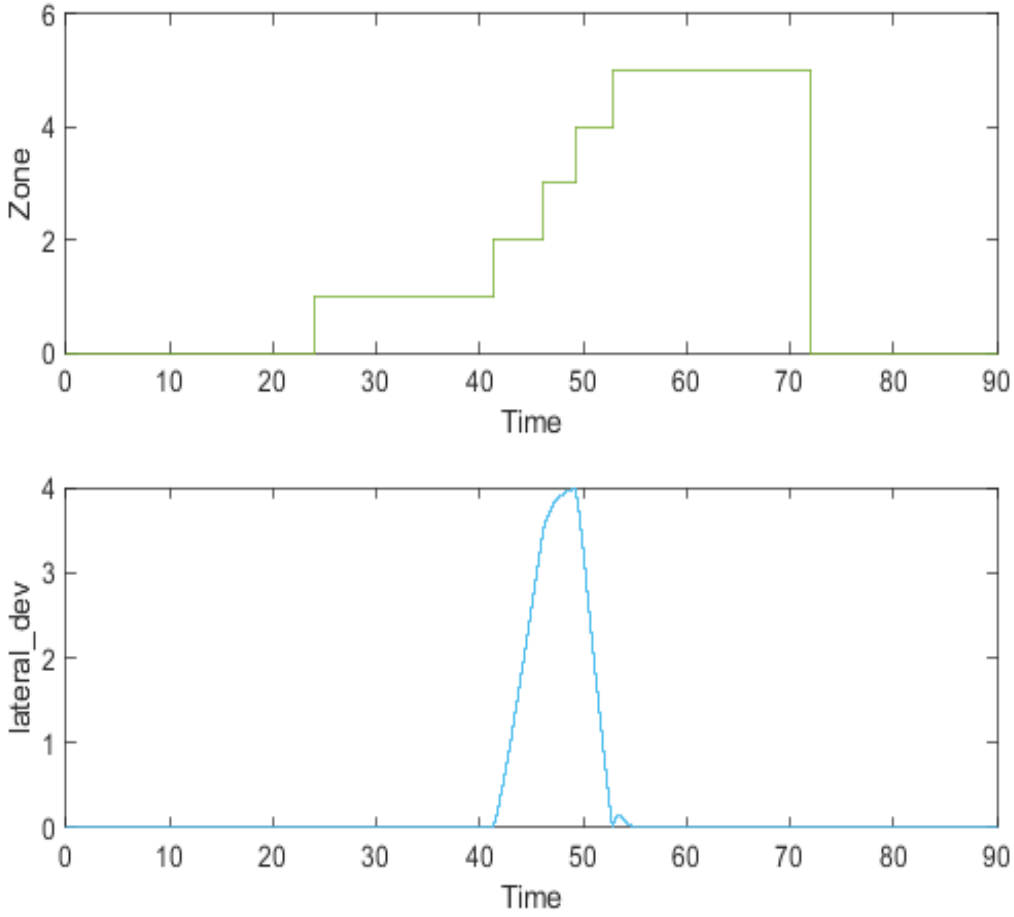
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	90
Checksum:	2343644972 1908336964 2890382273 1274090410

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-110° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:32:15

End Time: 26-May-2021 09:32:30
Outcome: Passed

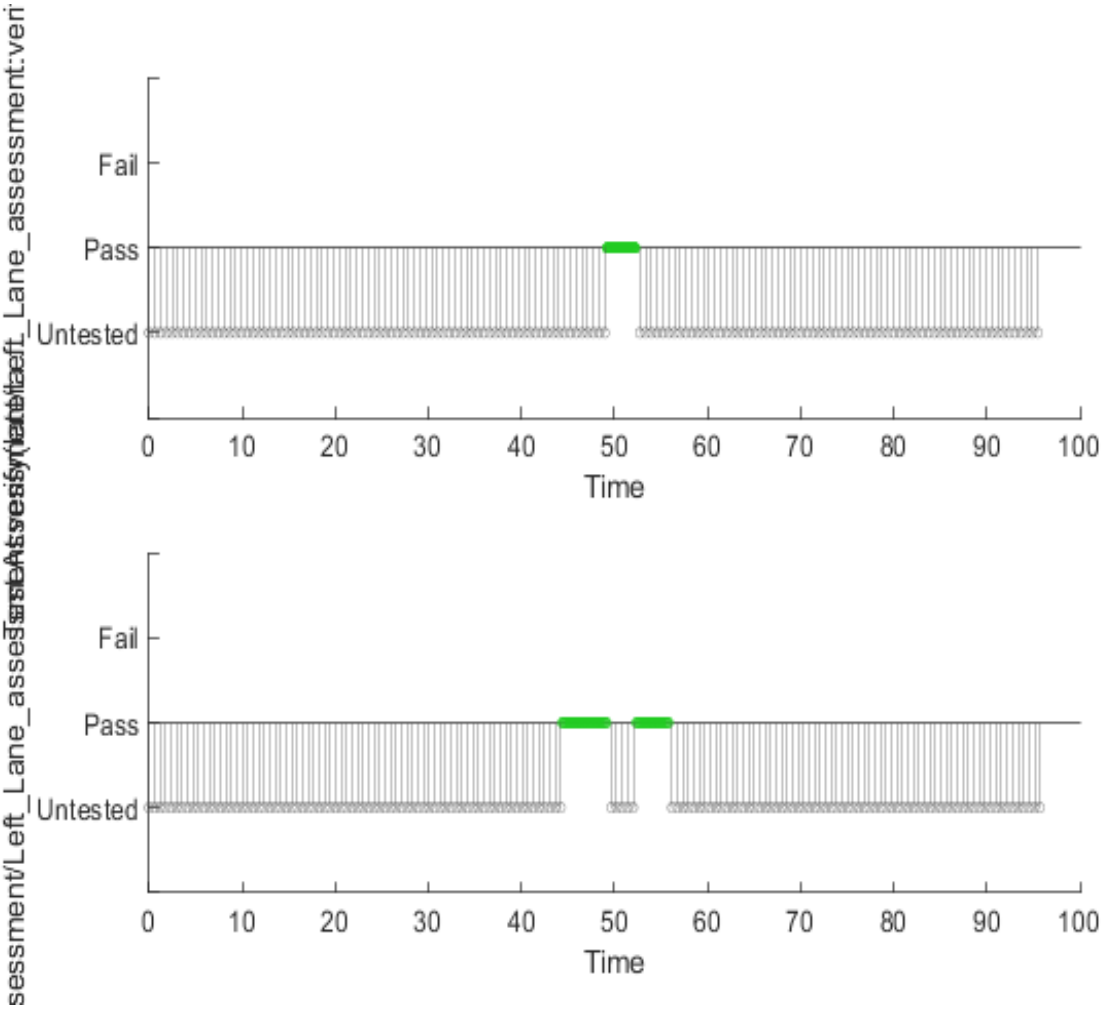
Test Case Information

Name: -110° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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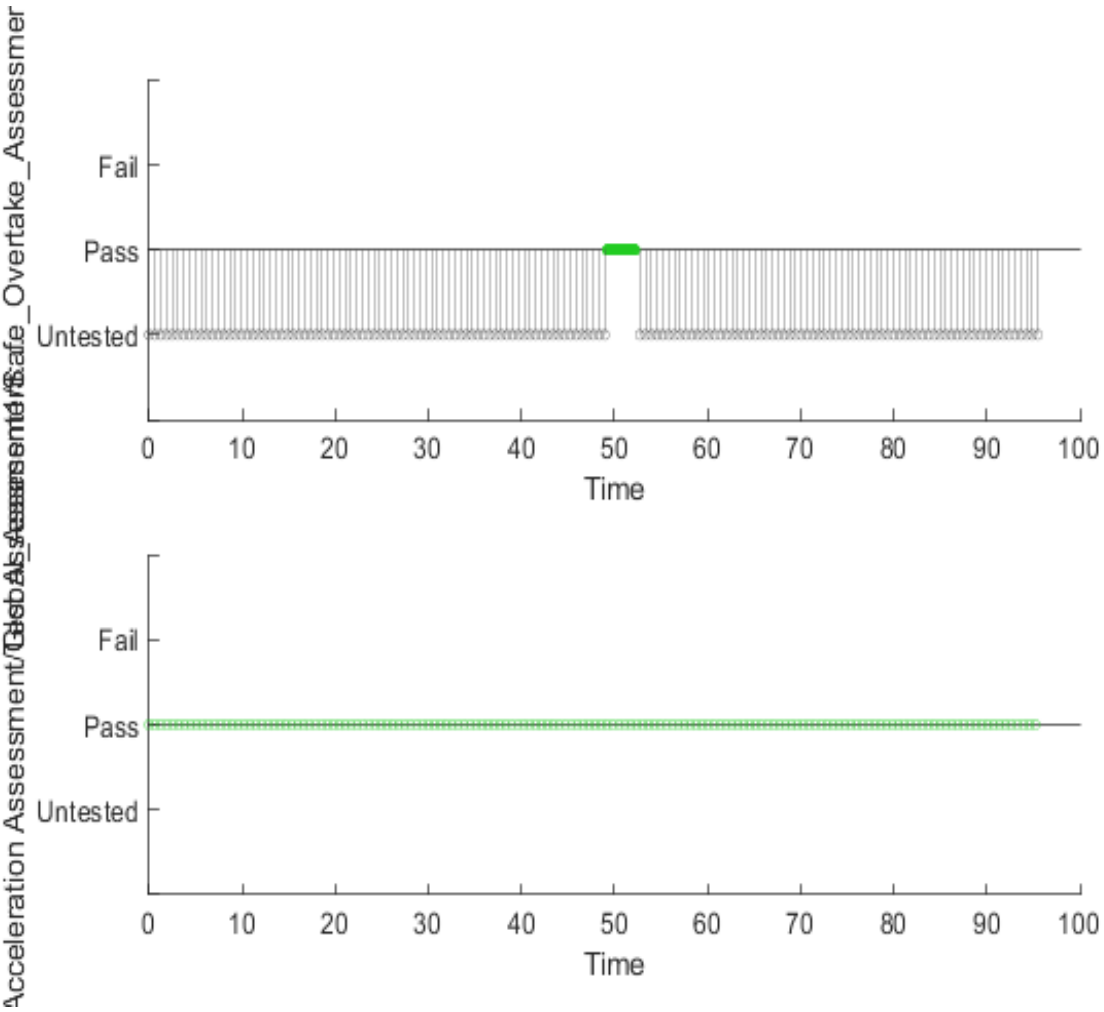
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

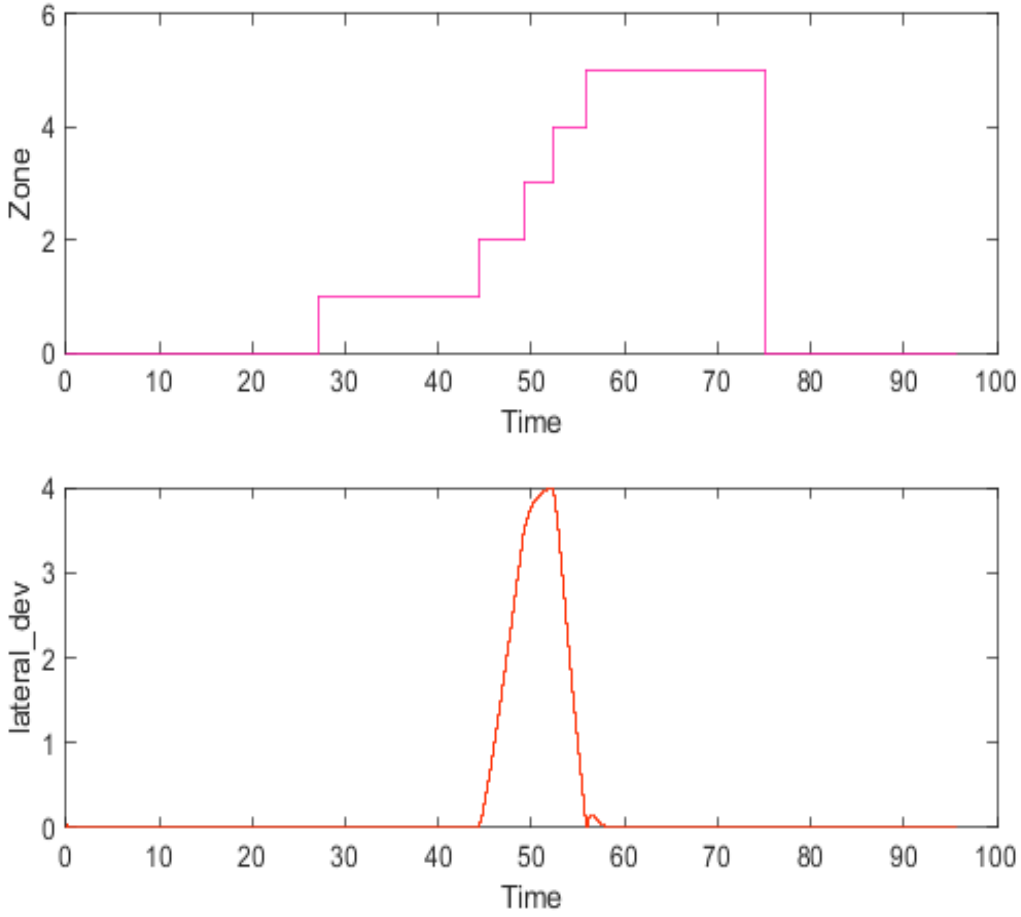
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	95.77691579916322
Checksum:	1992933644 868435553 2096975254 3134451174

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-135° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:32:30

End Time: 26-May-2021 09:32:52
Outcome: Passed

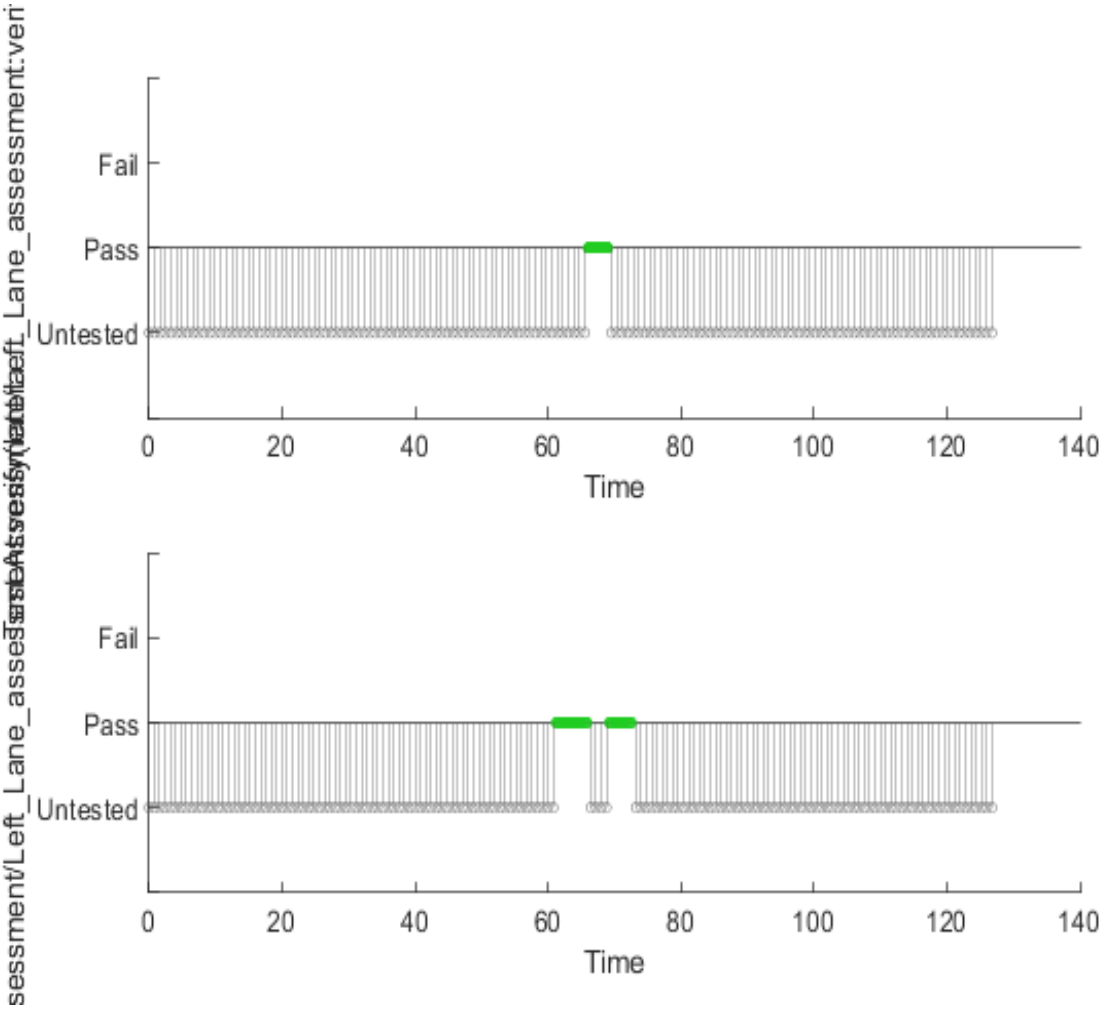
Test Case Information

Name: -135° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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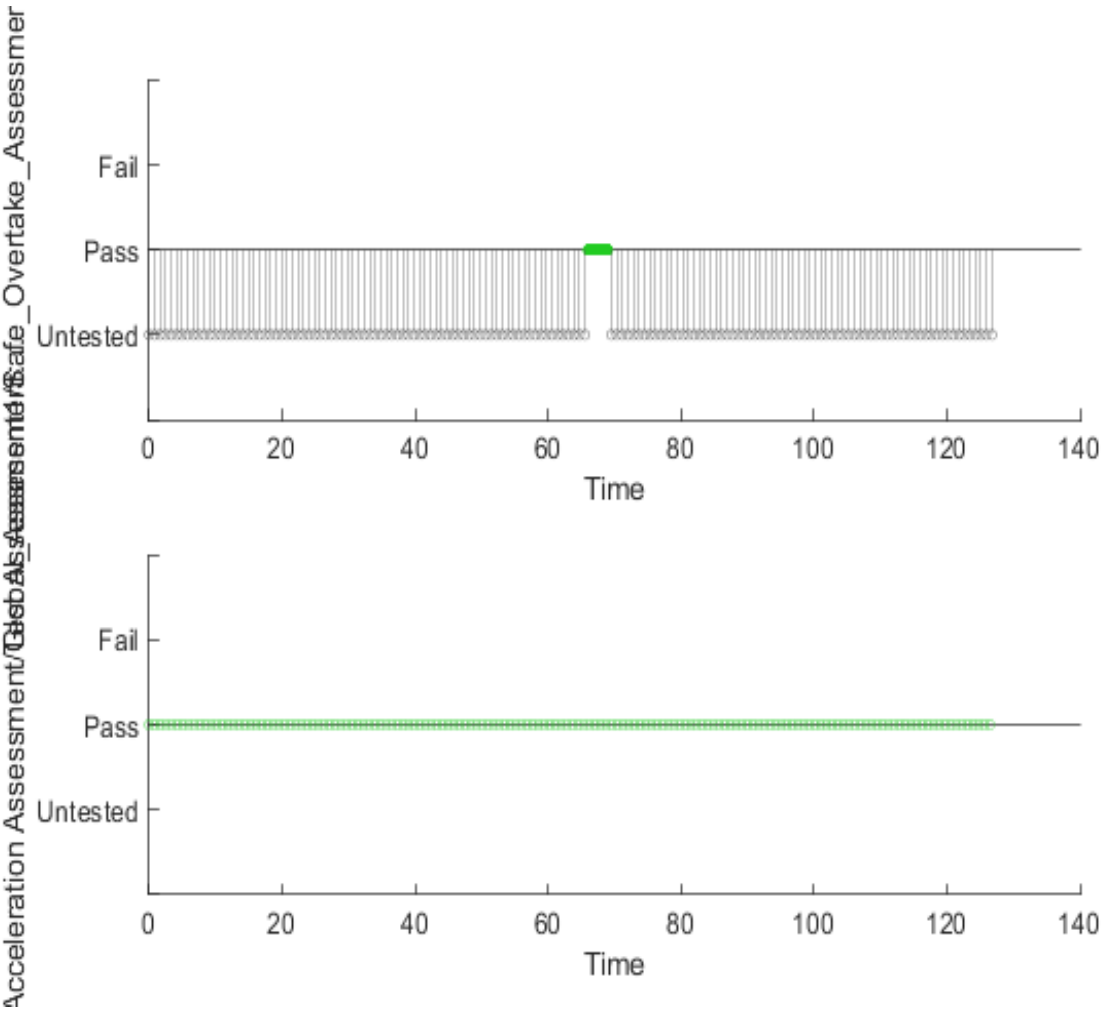
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

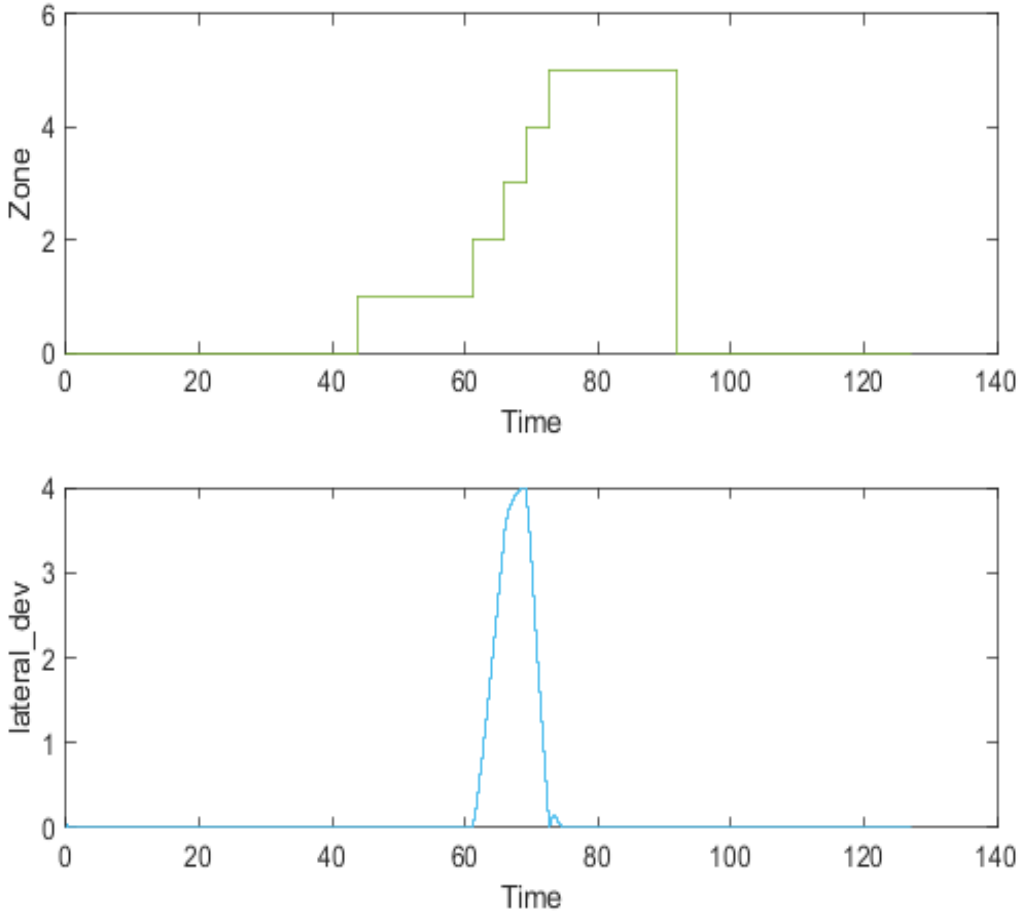
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	127.27922061357856
Checksum:	569310171 2211090829 1651512049 4205803728

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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-160° 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:32:52

End Time: 26-May-2021 09:33:42
Outcome: Passed

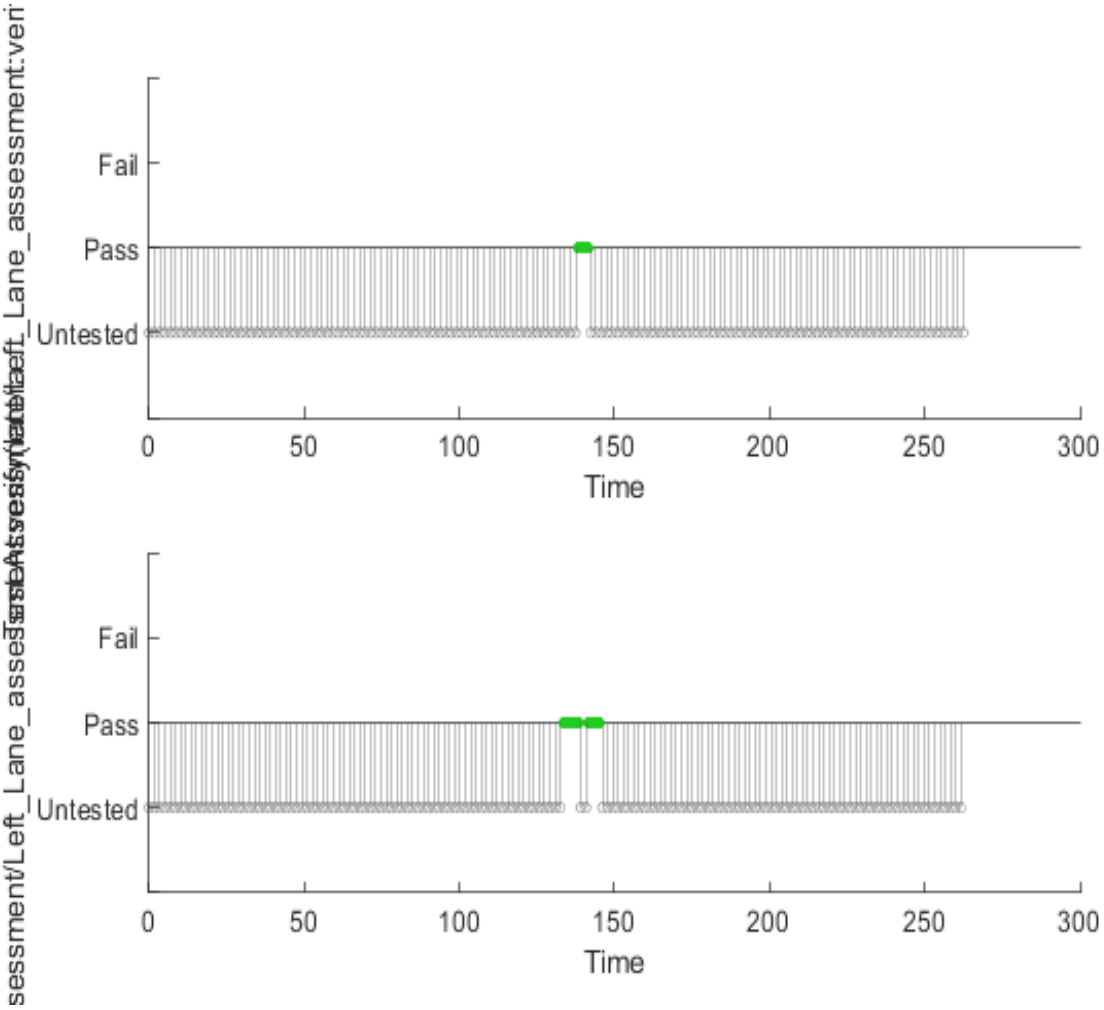
Test Case Information

Name: -160° 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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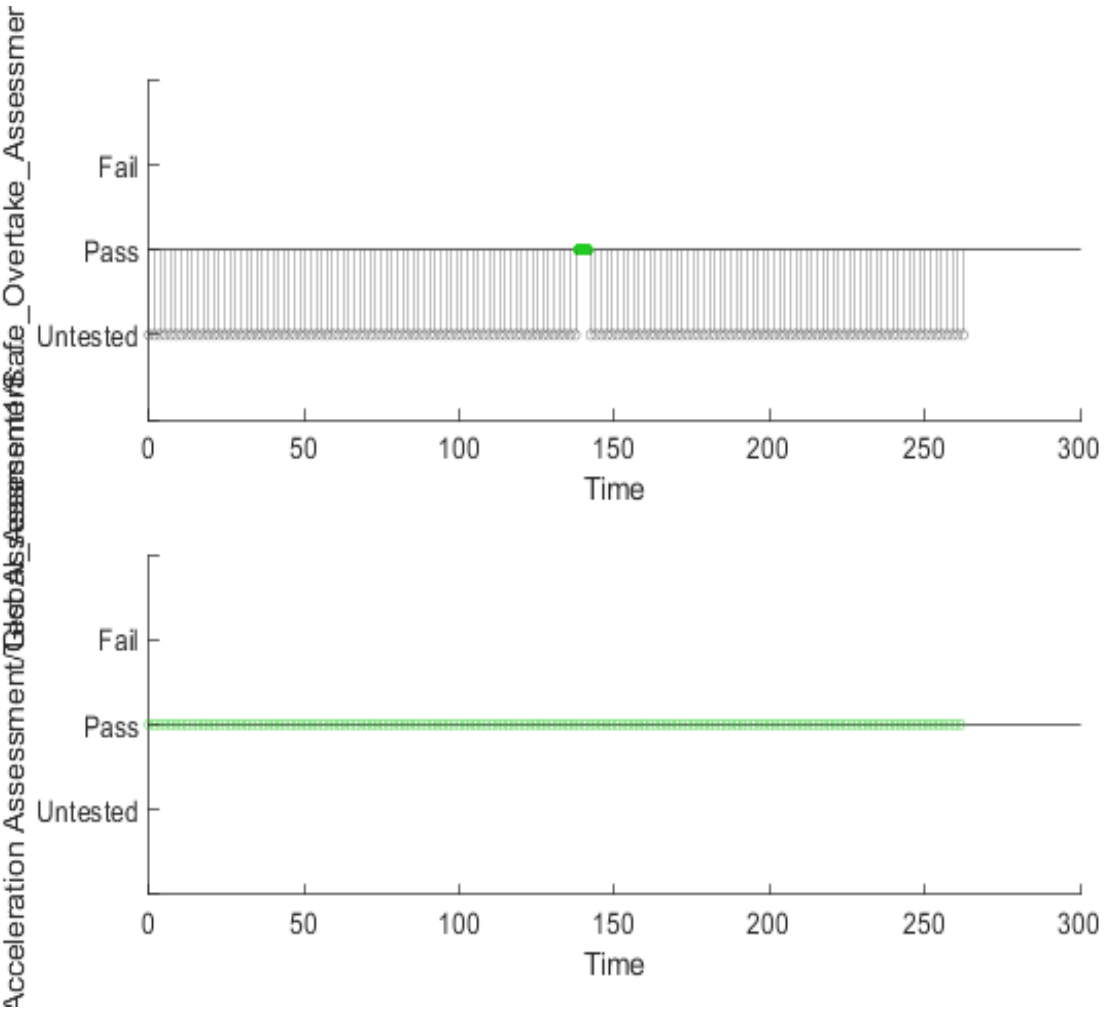
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

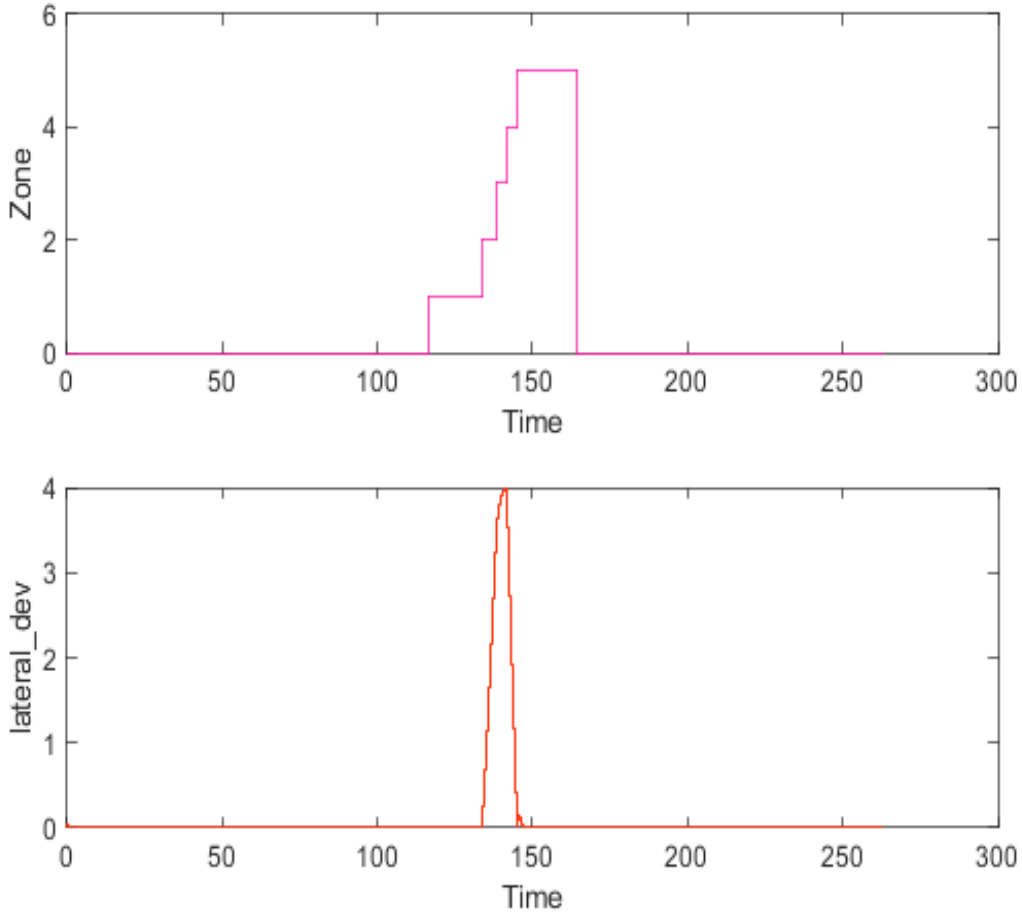
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	263.10201994663595
Checksum:	3739455259 2778391450 2876728504 3497399858

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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1000m curvature clockwise 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:33:42

End Time: 26-May-2021 09:35:51
Outcome: Passed

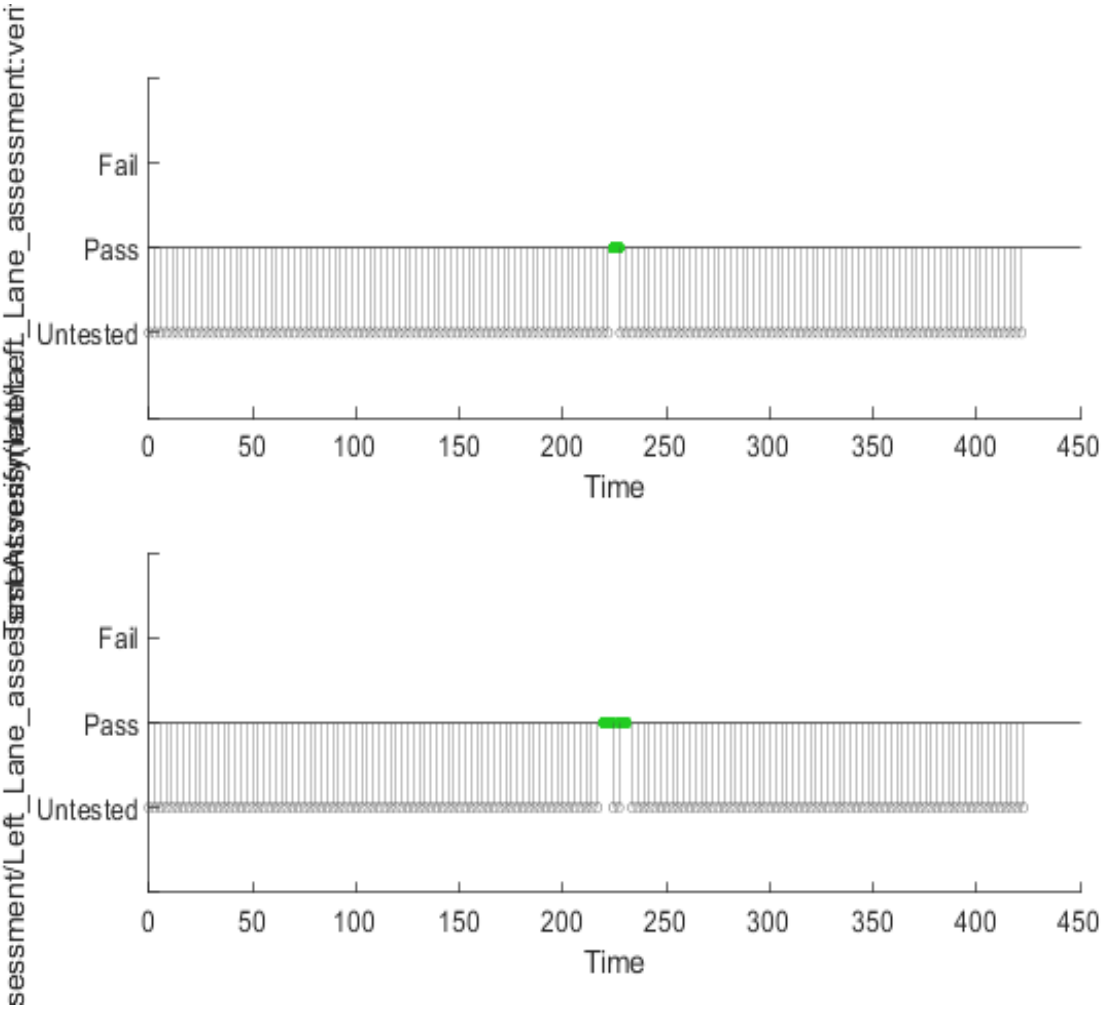
Test Case Information

Name: 1000m curvature clockwise 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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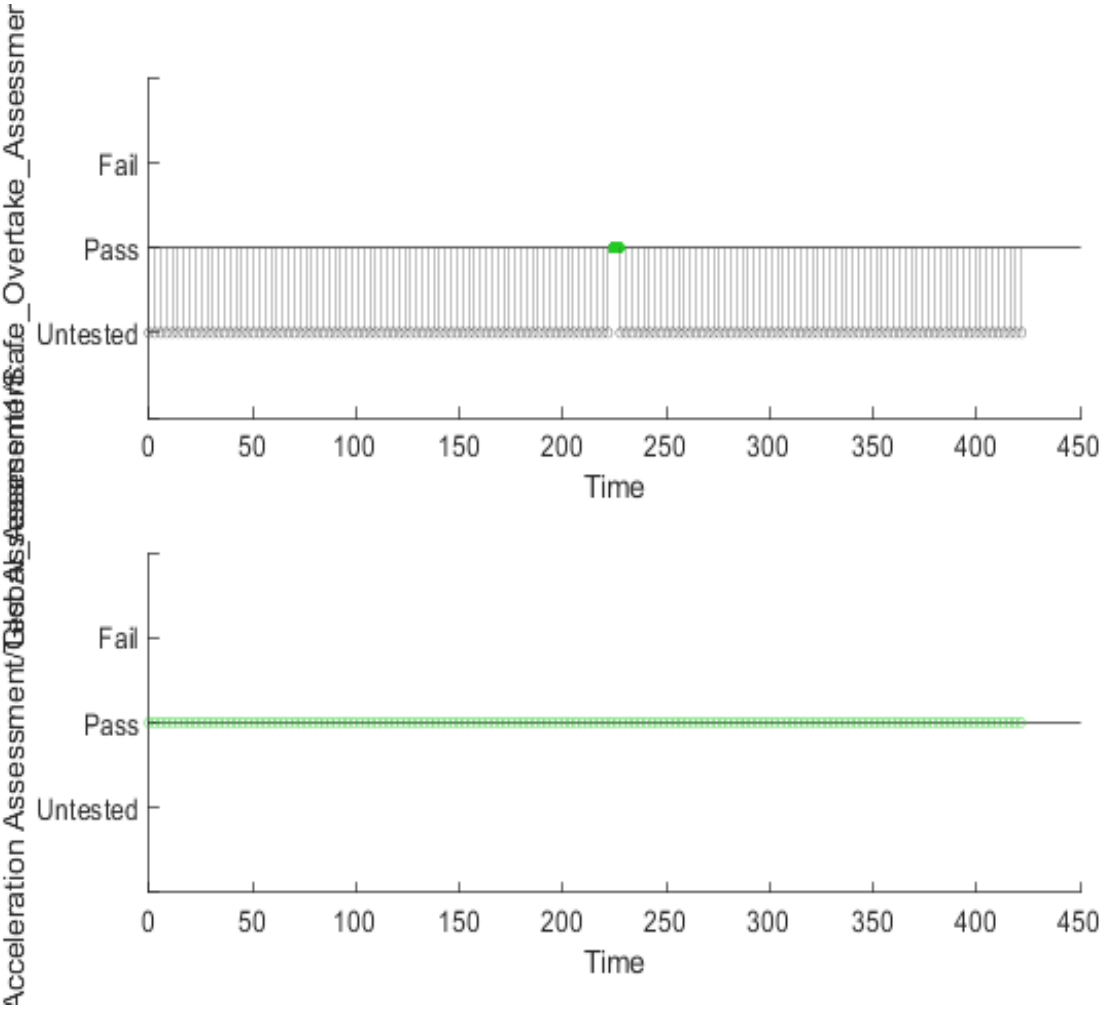
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

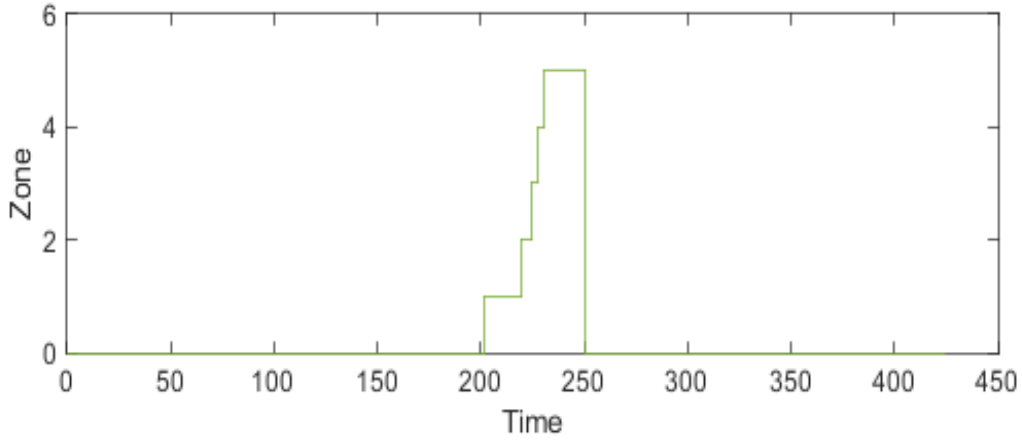
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

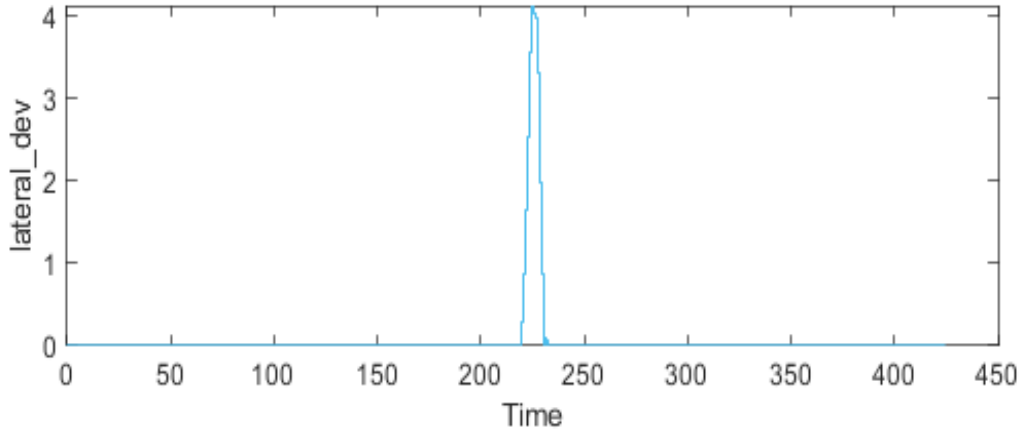
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	424.11999999998471
Checksum:	2273128415 510981737 1164924002 2298325331

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union





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500m curvature clockwise 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:35:51

End Time: 26-May-2021 09:36:31
Outcome: Passed

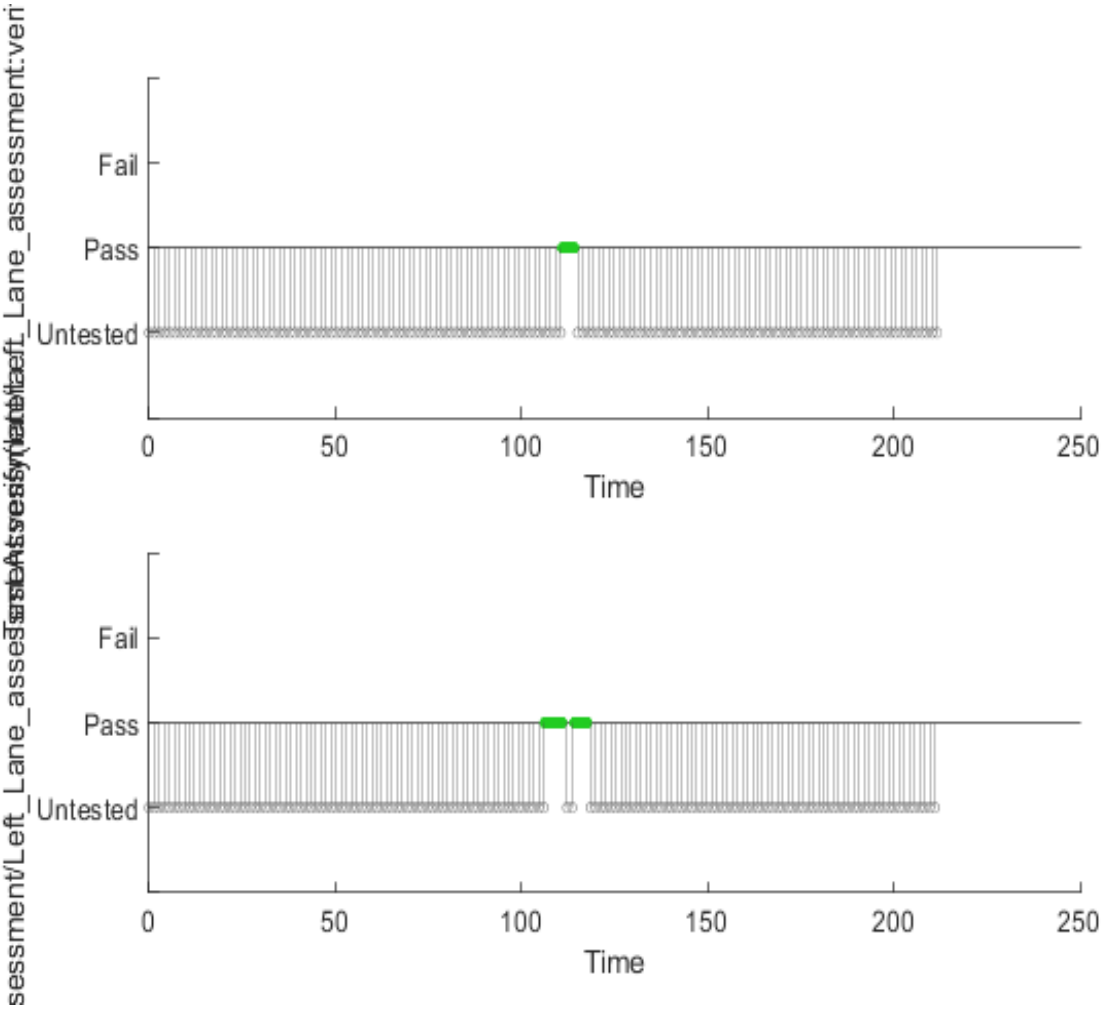
Test Case Information

Name: 500m curvature clockwise 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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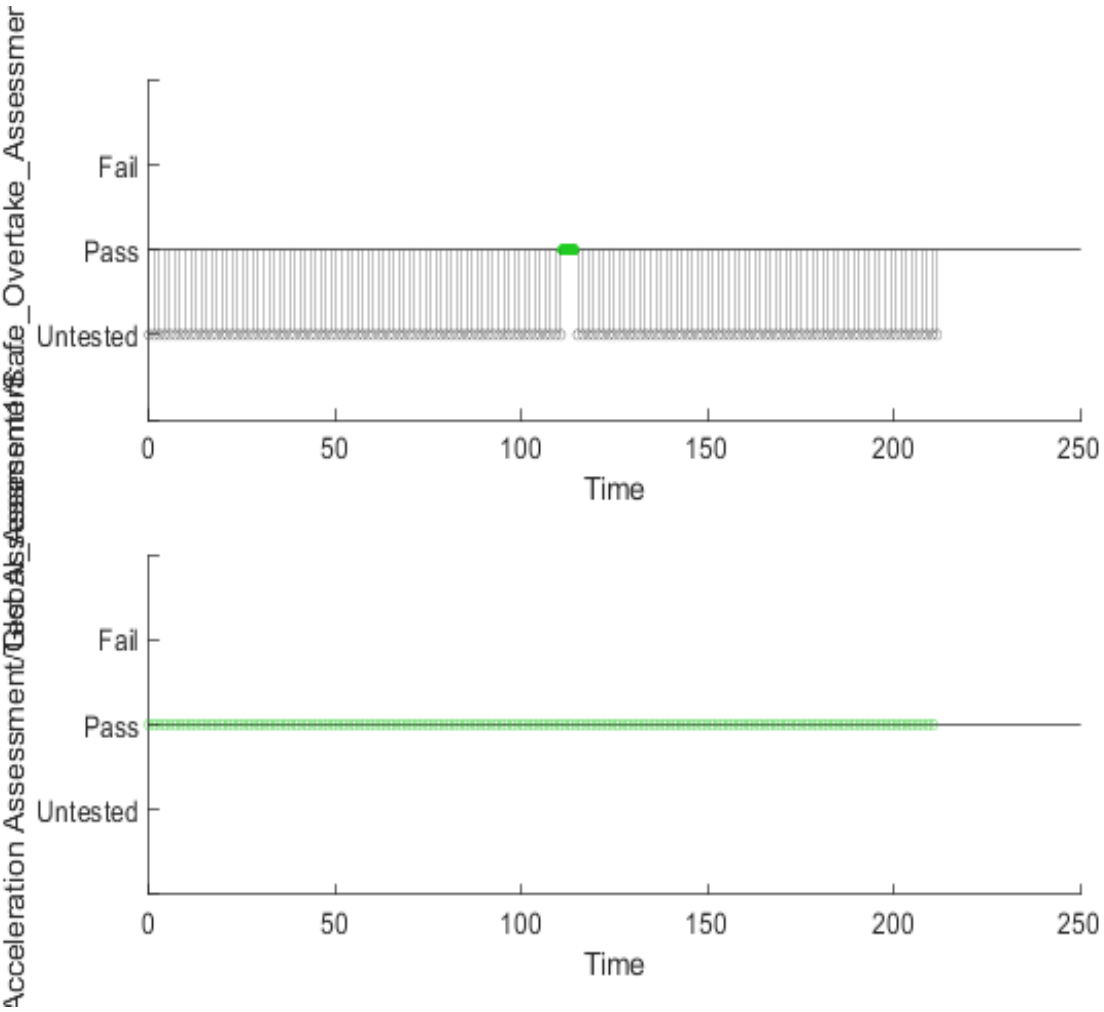
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

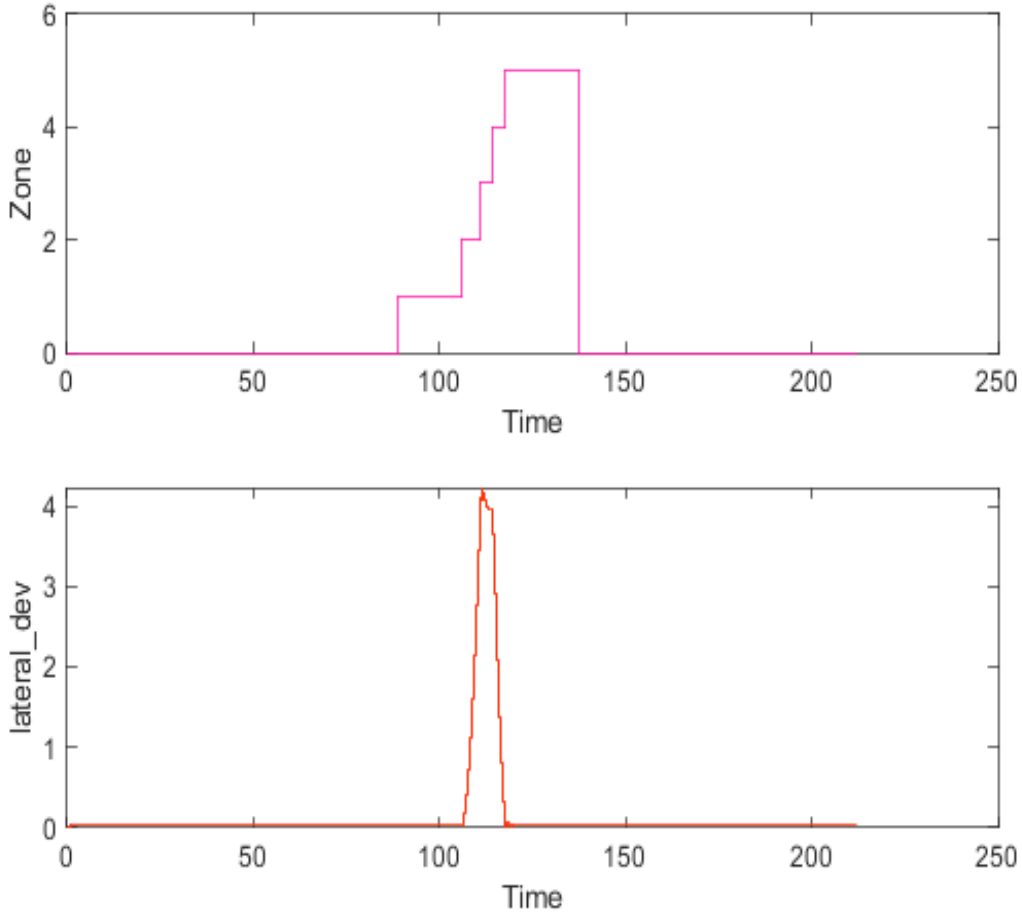
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	212.05999999999636
Checksum:	3709124352 1612148717 279248982 885041763

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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300m curvature clockwise 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h
Start Time:	26-May-2021 09:36:31

End Time: 26-May-2021 09:36:51
Outcome: Passed

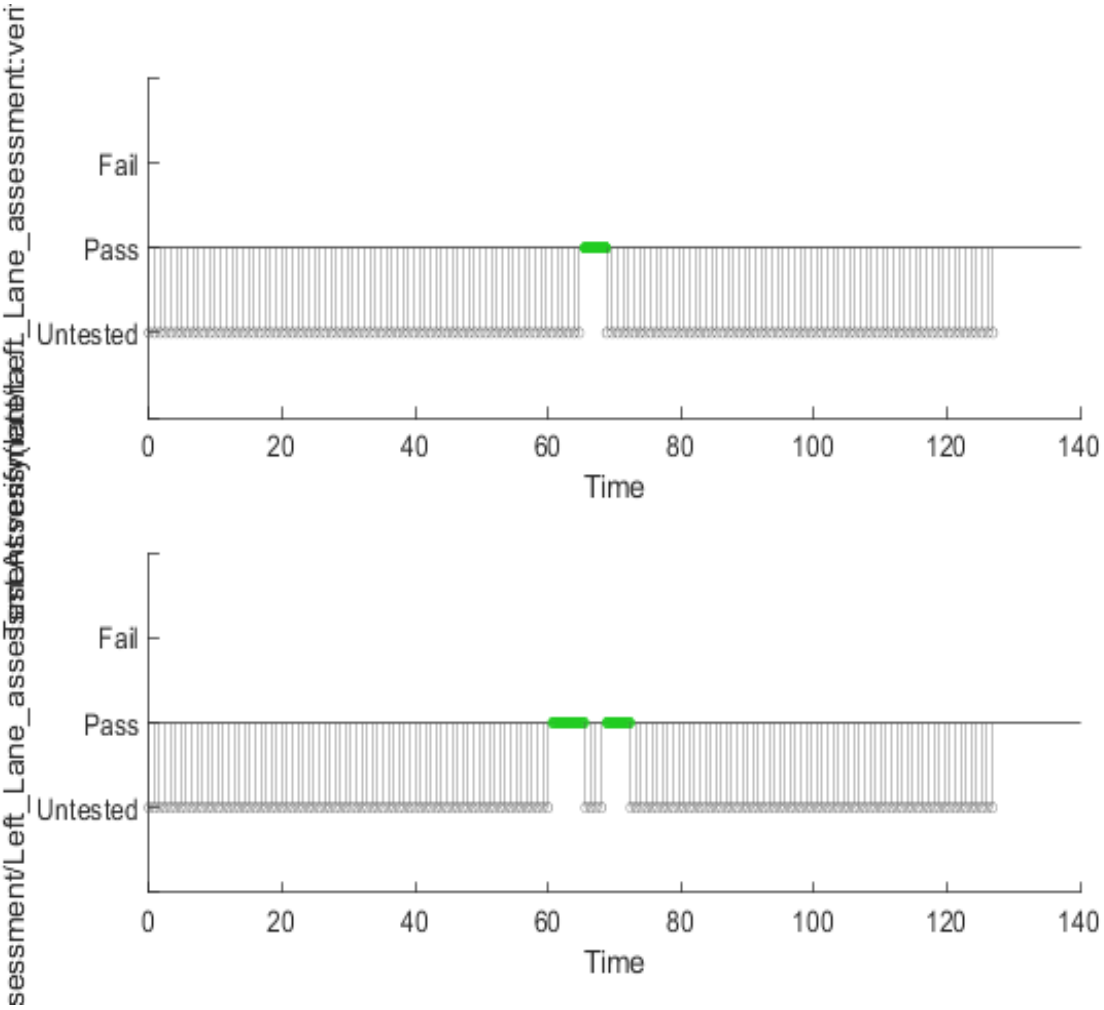
Test Case Information

Name: 300m curvature clockwise 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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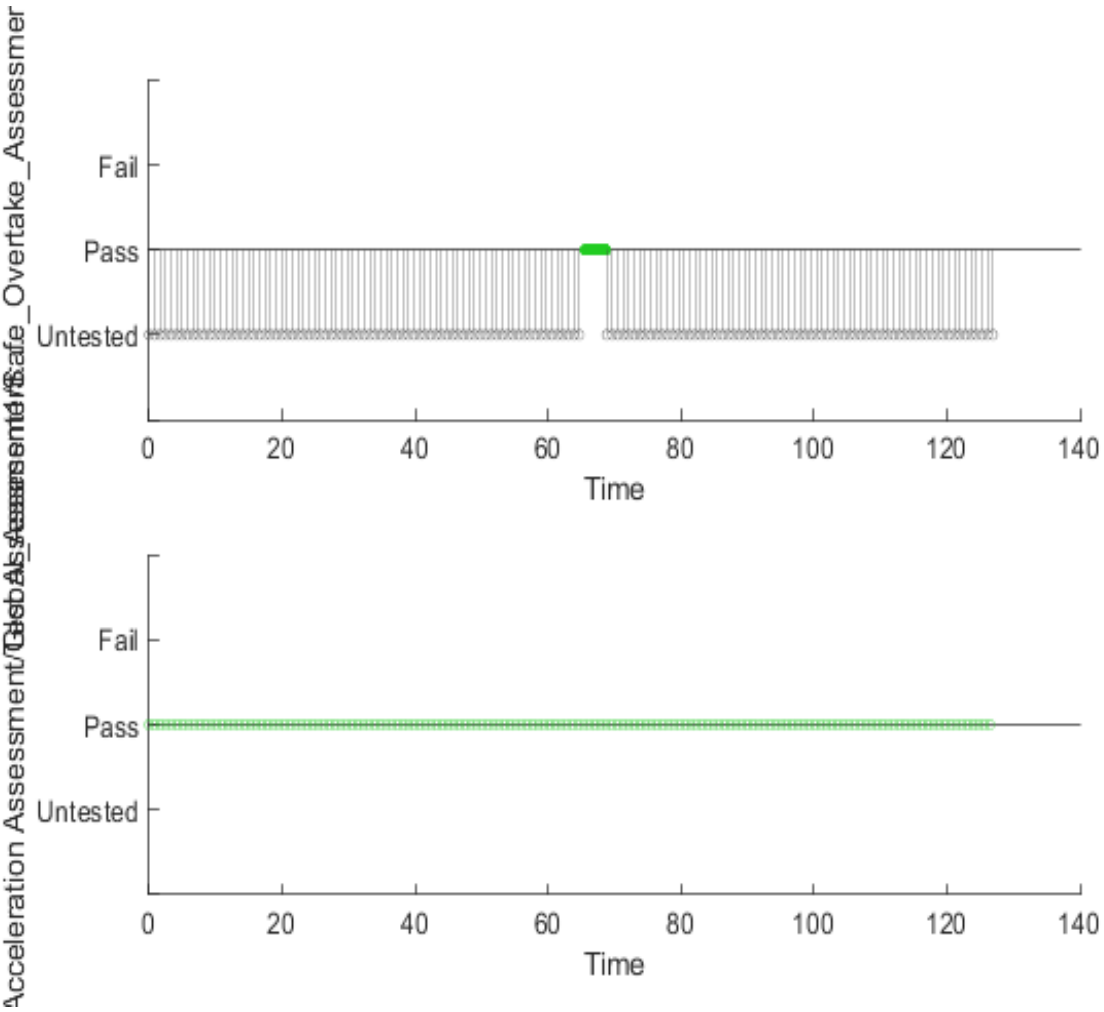
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

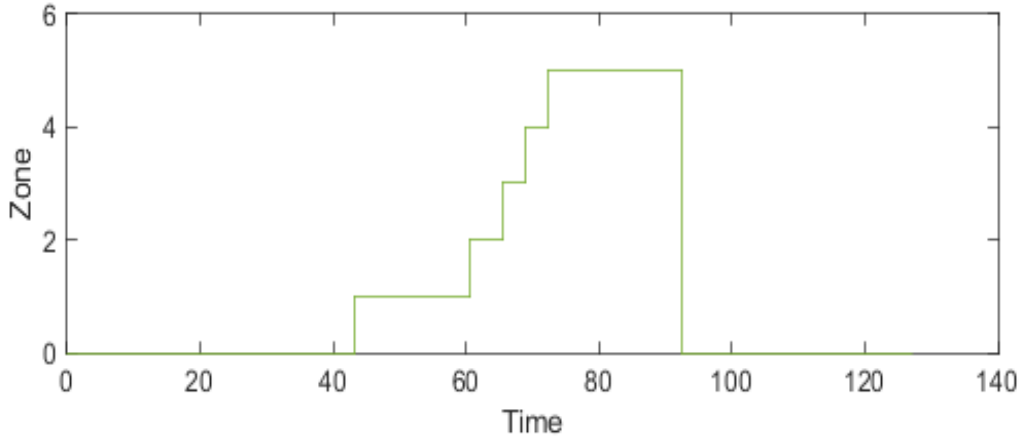
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

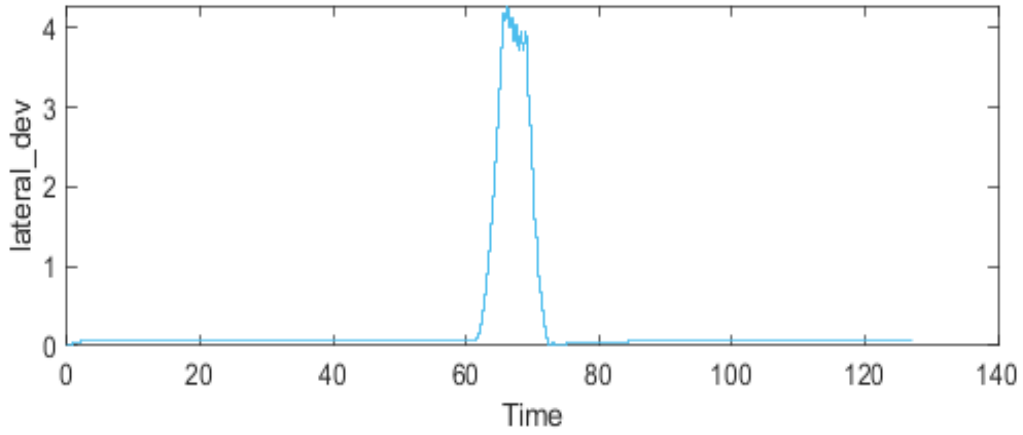
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	127.24000000000028
Checksum:	764207698 2414639290 3438514030 3992453042

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union





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300m curvature counterclockwise 40km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 40km/h

Start Time: 26-May-2021 09:36:51
End Time: 26-May-2021 09:37:11
Outcome: Passed

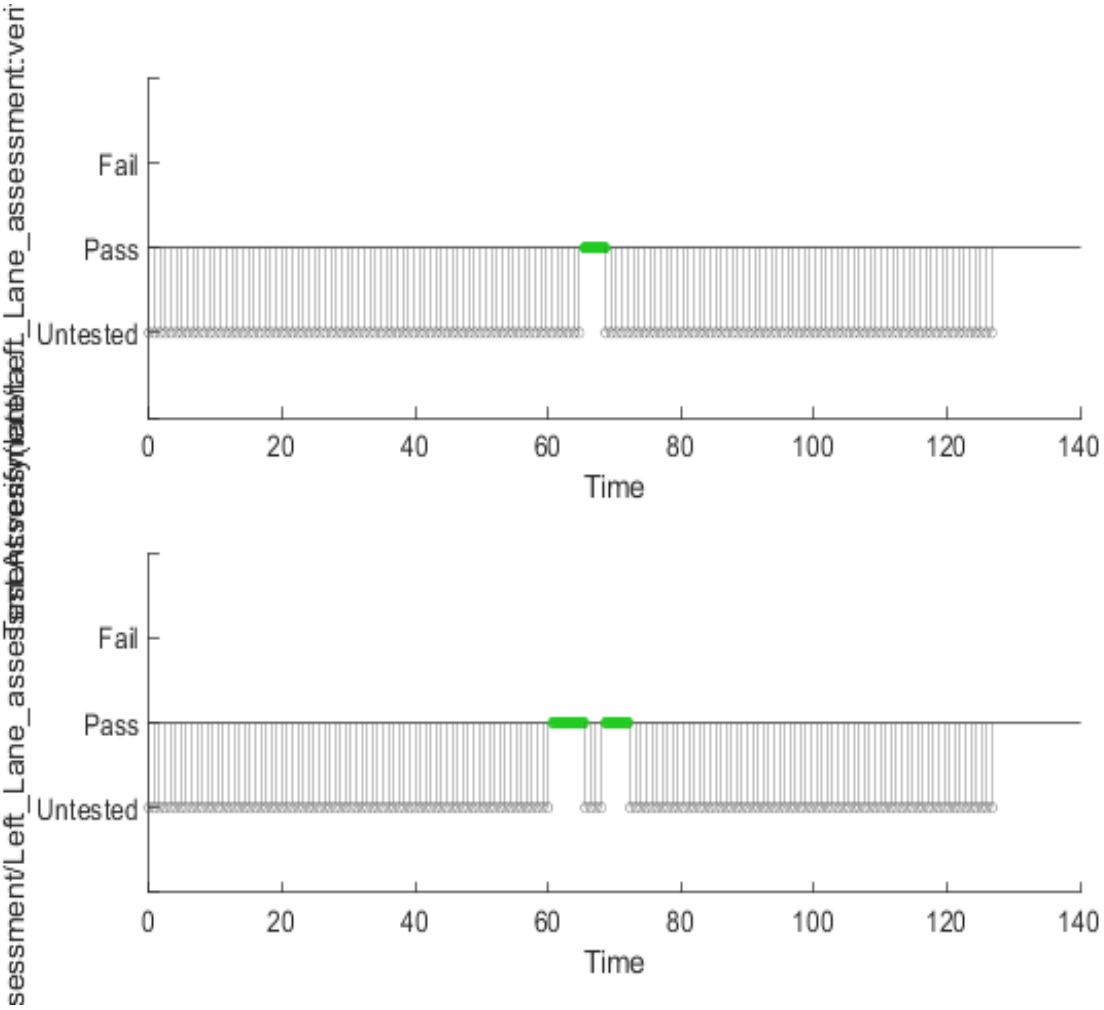
Test Case Information

Name: 300m curvature counterclockwise 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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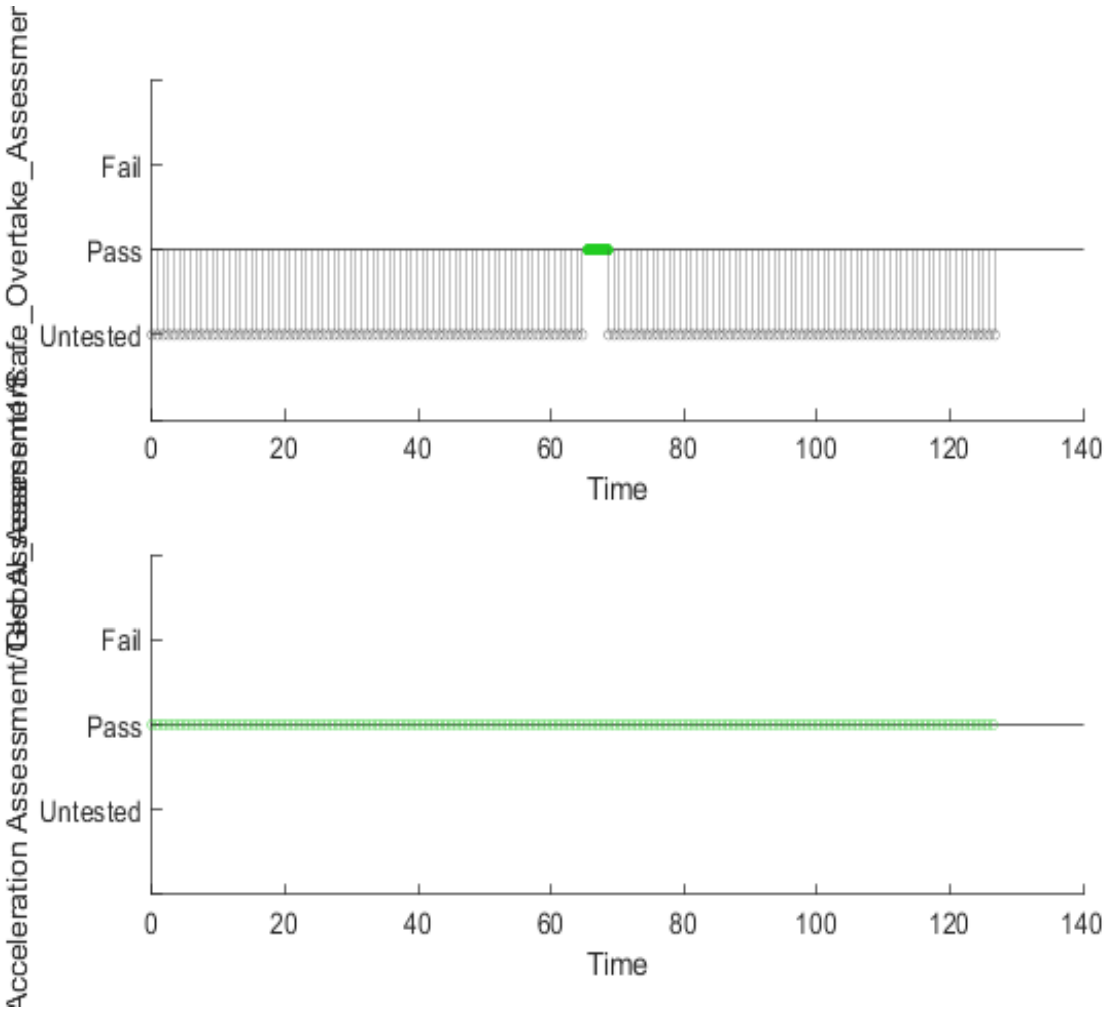
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

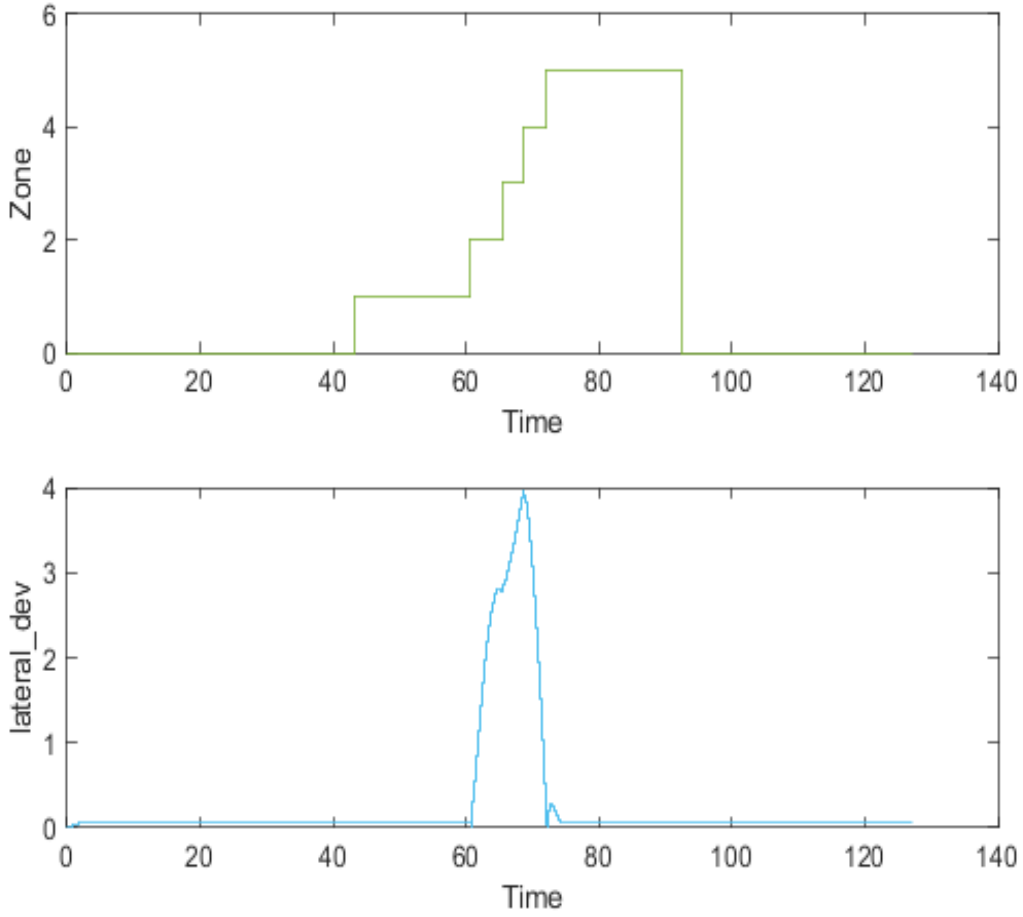
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	127.24000000000028
Checksum:	764207698 2414639290 3438514030 3992453042

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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500m curvature counterclockwise 40km/h

Test Result Information

Result Type: Test Case Result
Parent: Dynamic_obstacle 40km/h

Start Time: 26-May-2021 09:37:11
End Time: 26-May-2021 09:37:43
Outcome: Passed

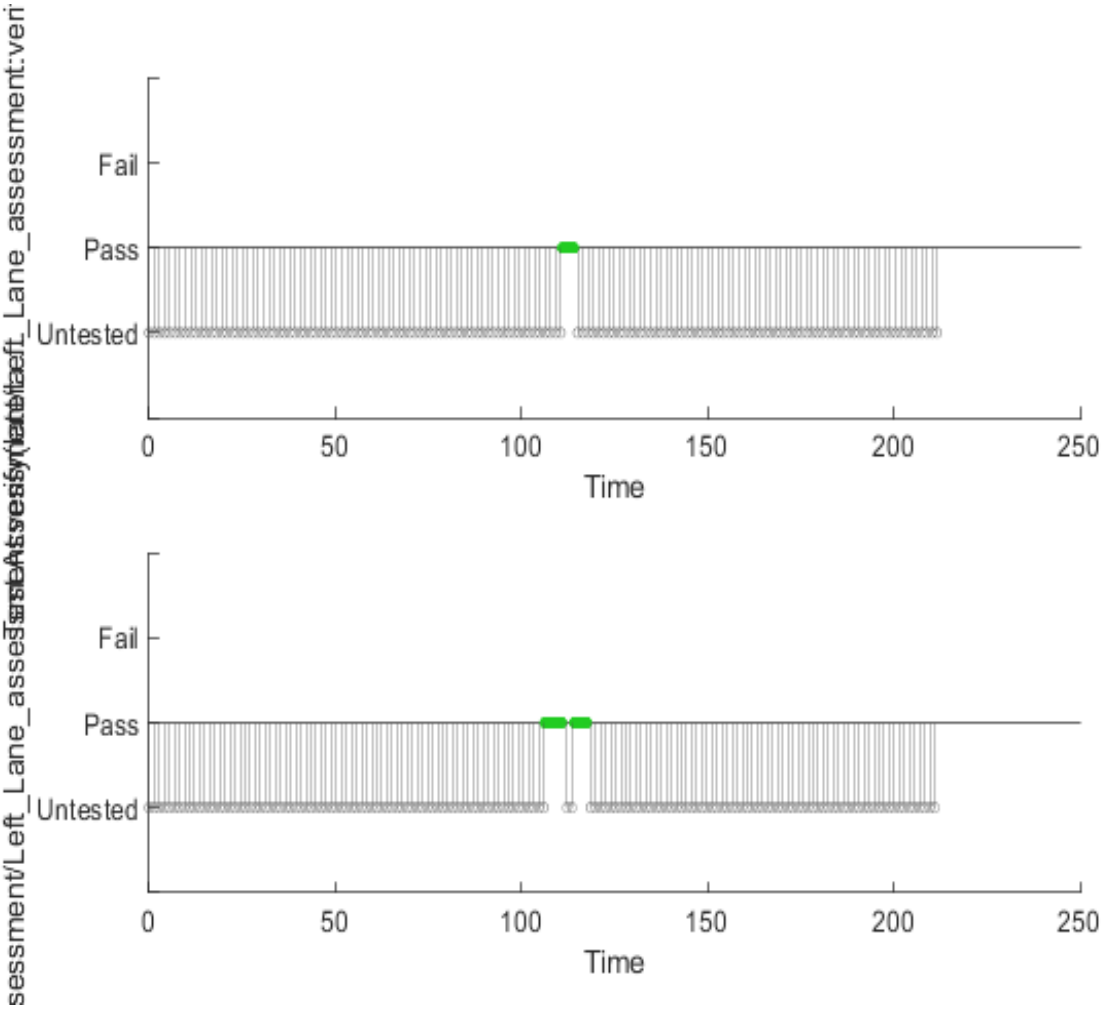
Test Case Information

Name: 500m curvature counterclockwise 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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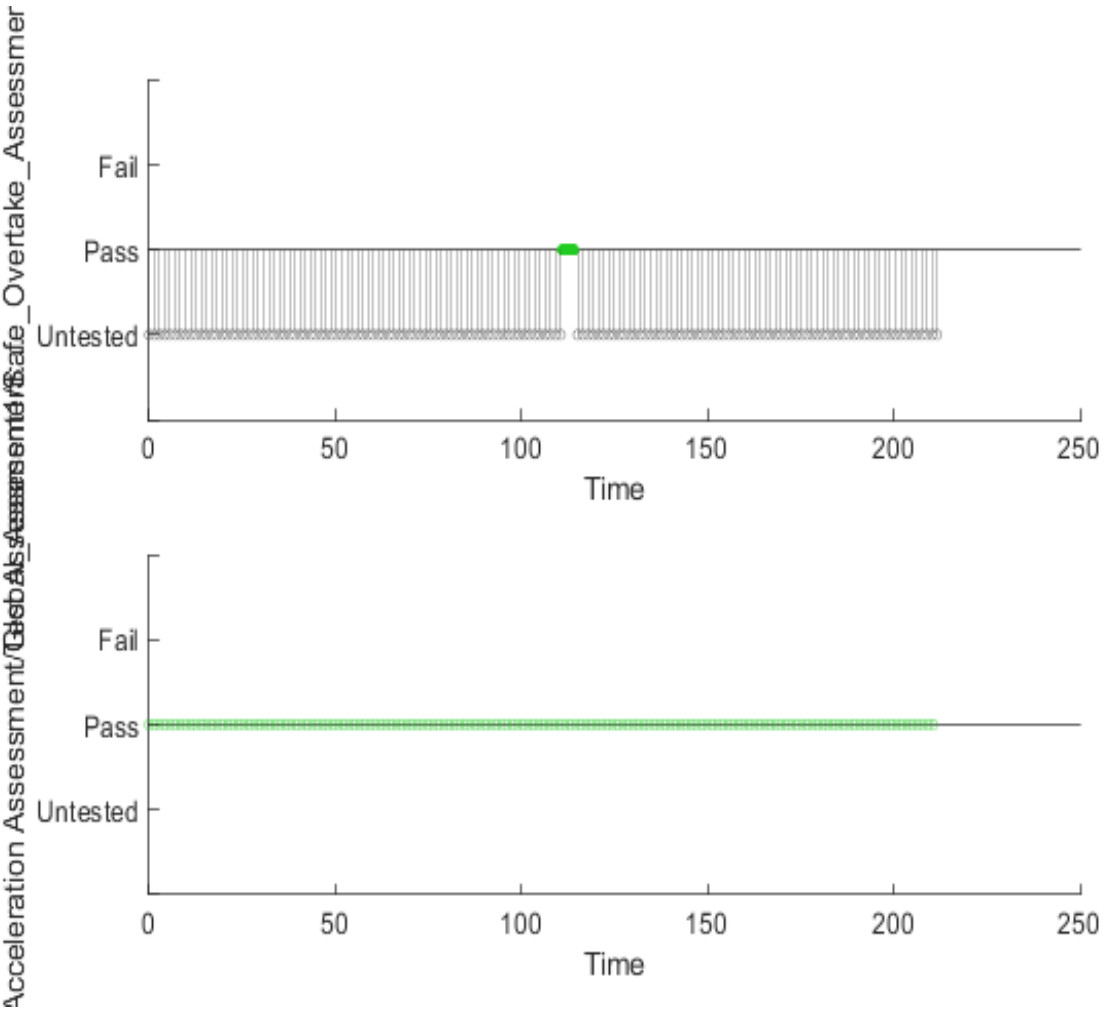
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

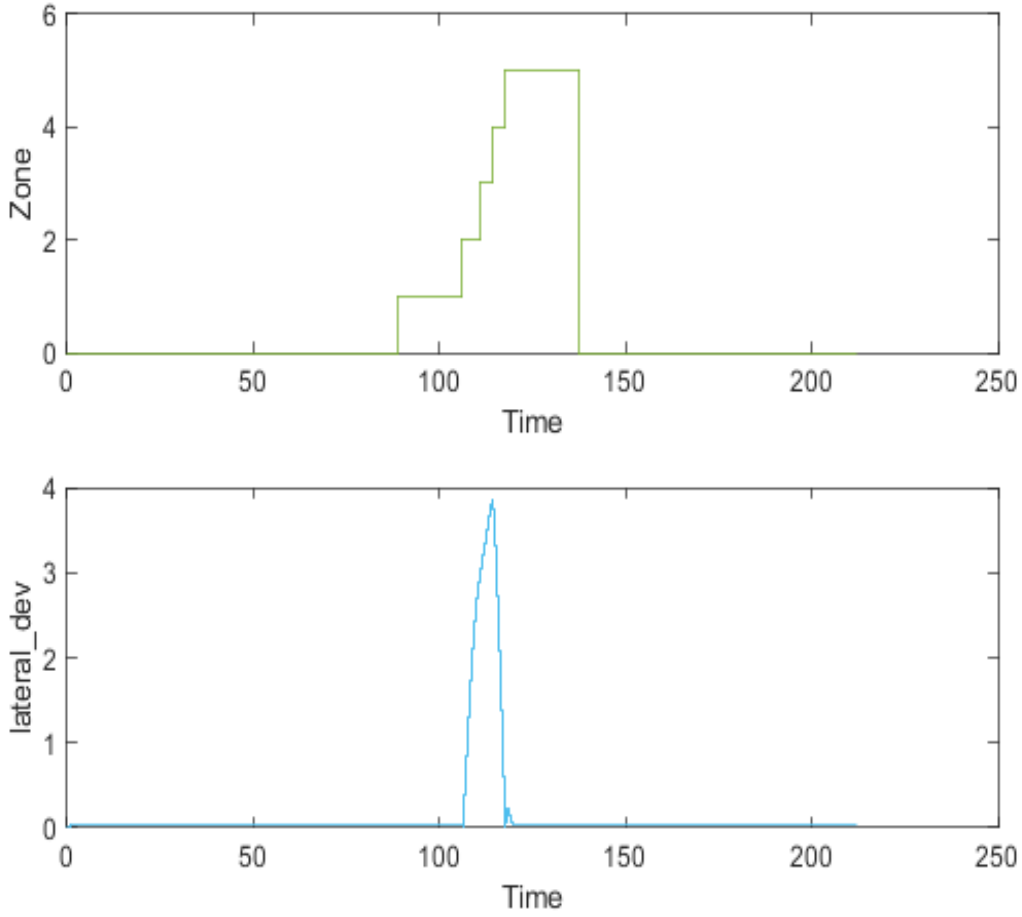
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	212.05999999999636
Checksum:	3709124352 1612148717 279248982 885041763

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union



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1000m curvature counterclockwise 40km/h

Test Result Information

Result Type:	Test Case Result
Parent:	Dynamic_obstacle 40km/h

Start Time: 26-May-2021 09:37:43
End Time: 26-May-2021 09:39:04
Outcome: Passed

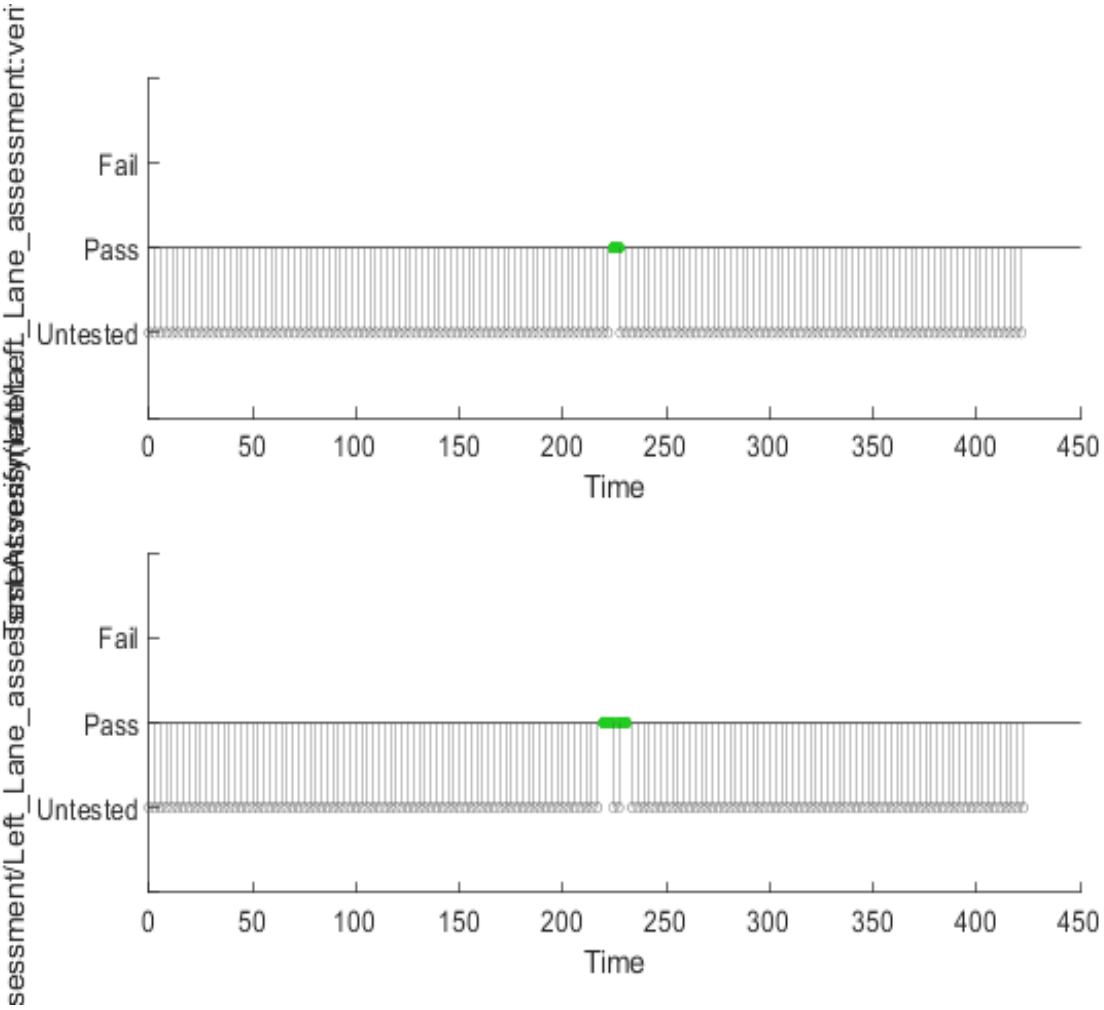
Test Case Information

Name: 1000m curvature counterclockwise 40km/h
Type: Simulation Test

Verify Result

Name	Link to Plot
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)	Link
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)	Link
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)	Link
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)	Link

Name
Test Assessment/Left_Lane_assessment:verify(lateral_dev >= 2 && lateral_dev <= 6)
Test Assessment/Left_Lane_assessment:verify(lateral_dev < 6)



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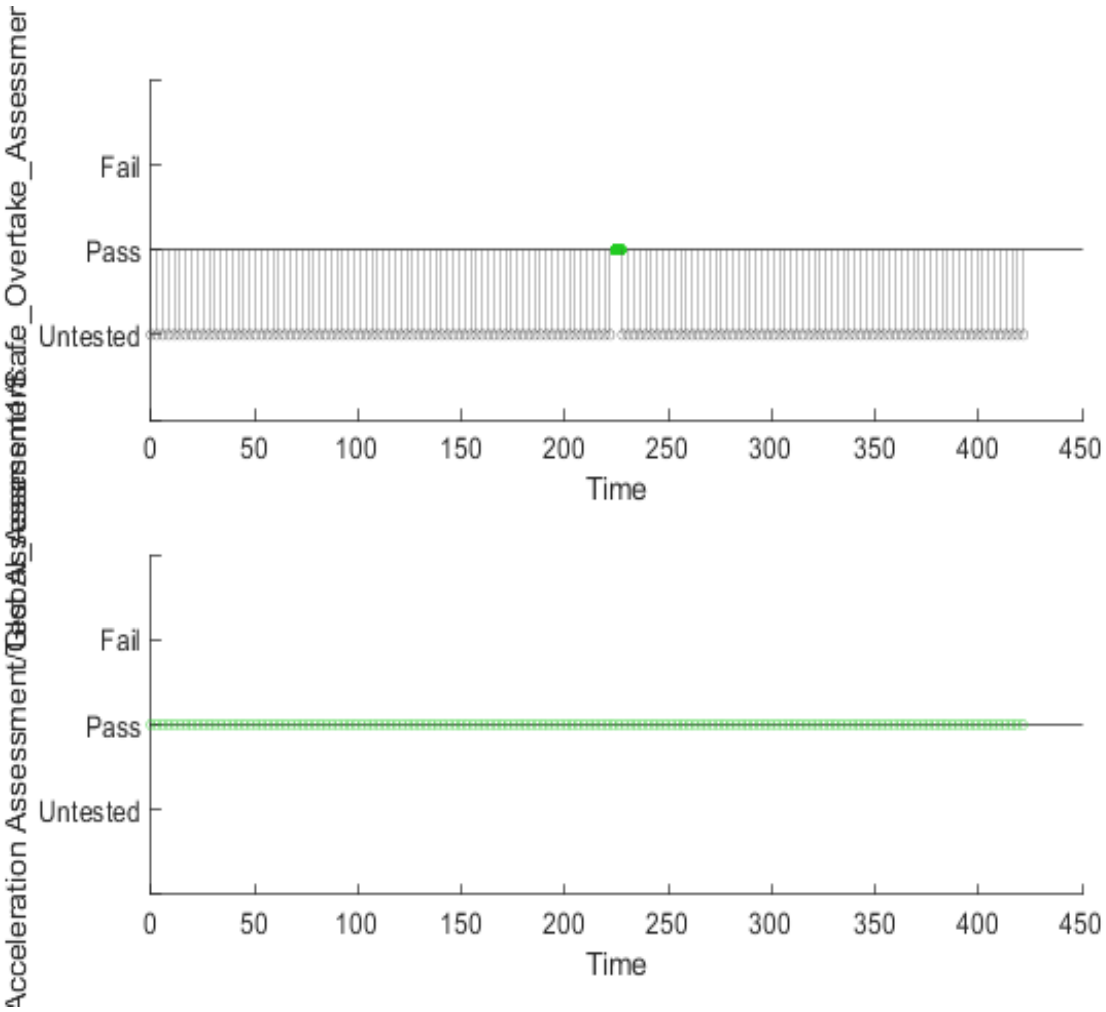
Name
Test Assessment1/Safe_Overtake_Assessment:verify(duration(lateral_dev > 5 && lateral_dev < 3,sec)<1)
Lateral Acceleration Assessment/Global_Assessment:verify(duration(Lateral_acceleration>=2,sec)<=0.5)



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Simulation

System Under Test Information

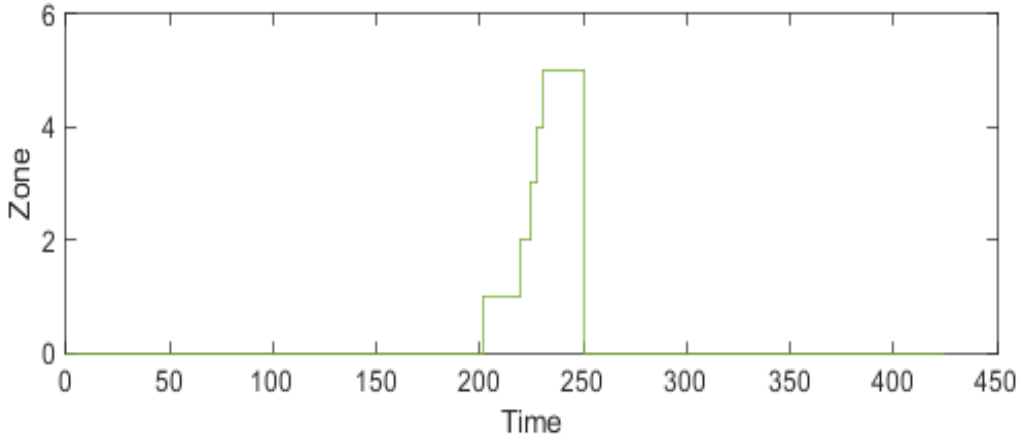
Model:	Dynamic_obstacle_avoidance
Harness:	DynamicObstacleAvoidance
Harness Owner:	Dynamic_obstacle_avoidance/Subsystem
Release:	Current
Simulation Mode:	normal

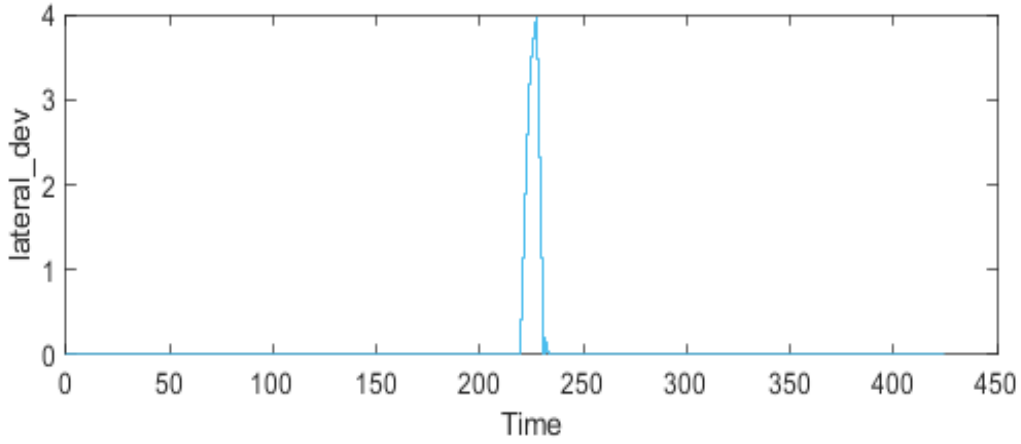
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	424.11999999998471
Checksum:	2273128415 510981737 1164924002 2298325331

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Zone	double		0.01	zoh	union	Link
lateral_dev	double		0.01	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Zone	double		0.01	zoh	union
lateral_dev	double		0.01	zoh	union





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