Report Generated by Test Manager

Title: **BMS State Machine Unit Test Report**
Author: **Chirag Patel**
Date: **06-Jun-2022 19:46:39**

Test Environment

Platform: PCWIN64
MATLAB: (R2022a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2022-Jun-06 19:19:49	6 ✓ 2 ⊘	10.615
Harness2	6 ✓ 2 ⊘	10.615
Standby	✓	2.146
StandbyToFault	✓	1.699
Charging	✓	1.597
ChargingToFault	✓	1.689
Driving	✓	1.61
DrivingToFault	✓	1.695
ChargingToStandby	⊘	0
DrivingToStandby	⊘	0

Results: 2022-Jun-06 19:19:49

Result Type:	Result Set
Parent:	None
Start Time:	06-Jun-2022 19:19:50
End Time:	06-Jun-2022 19:20:00
Outcome:	Total: 8, Passed: 6, Disabled: 2

Aggregated Coverage Results

Analyzed Model	Sim Mode	Complexity	Decision	Condition	MCDC
State_Machine	Normal	16	100%	88%	75%

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Harness2

Test Result Information

Result Type:	Test Suite Result
Parent:	Results: 2022-Jun-06 19:19:49
Start Time:	06-Jun-2022 19:19:50
End Time:	06-Jun-2022 19:20:00
Outcome:	Total: 8, Passed: 6, Disabled: 2

Test Suite Information

Name: Harness2

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Standby

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:50
End Time:	06-Jun-2022 19:19:52
Outcome:	Passed

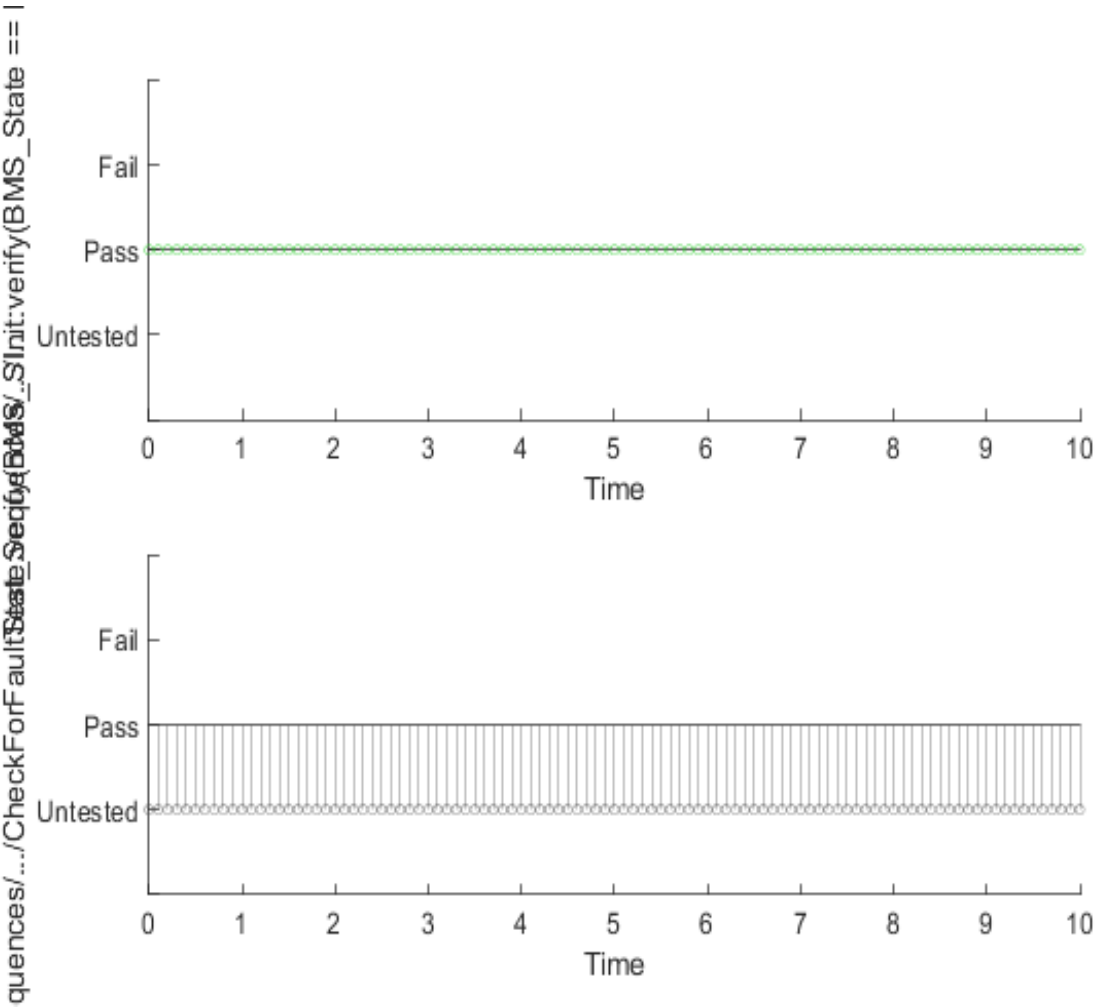
Test Case Information

Name: Standby
Type: Simulation Test

Verify Result

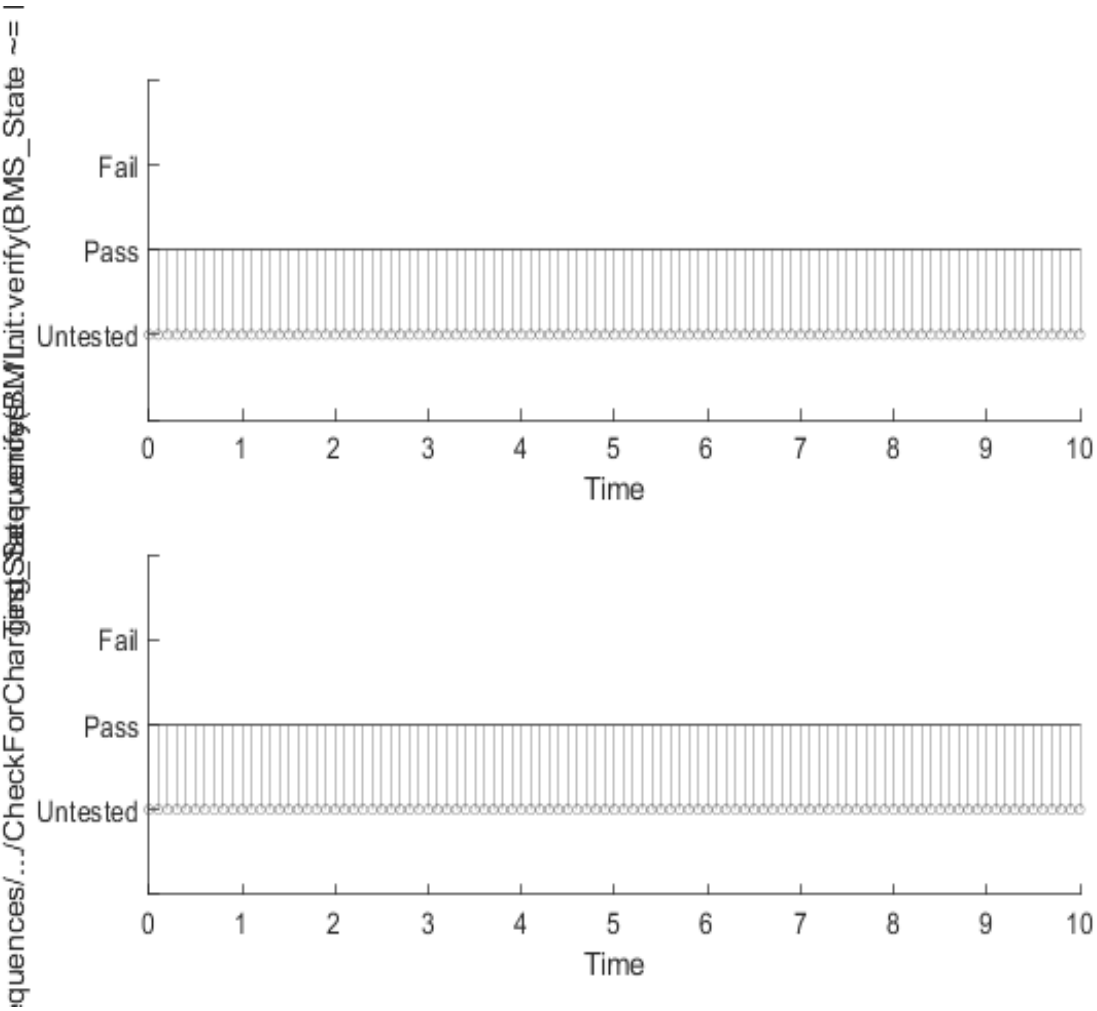
Name	Link to Plot
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link

Name
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



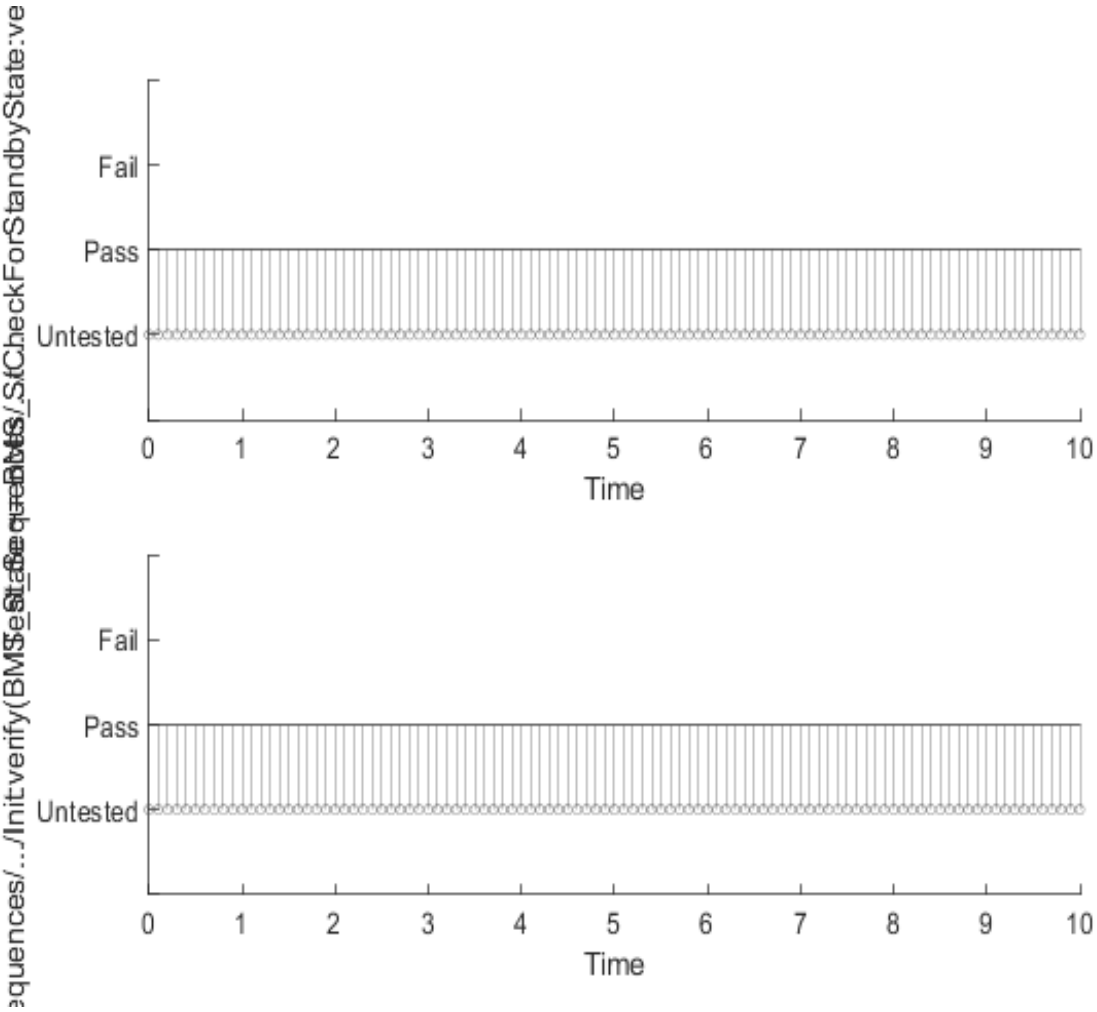
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)



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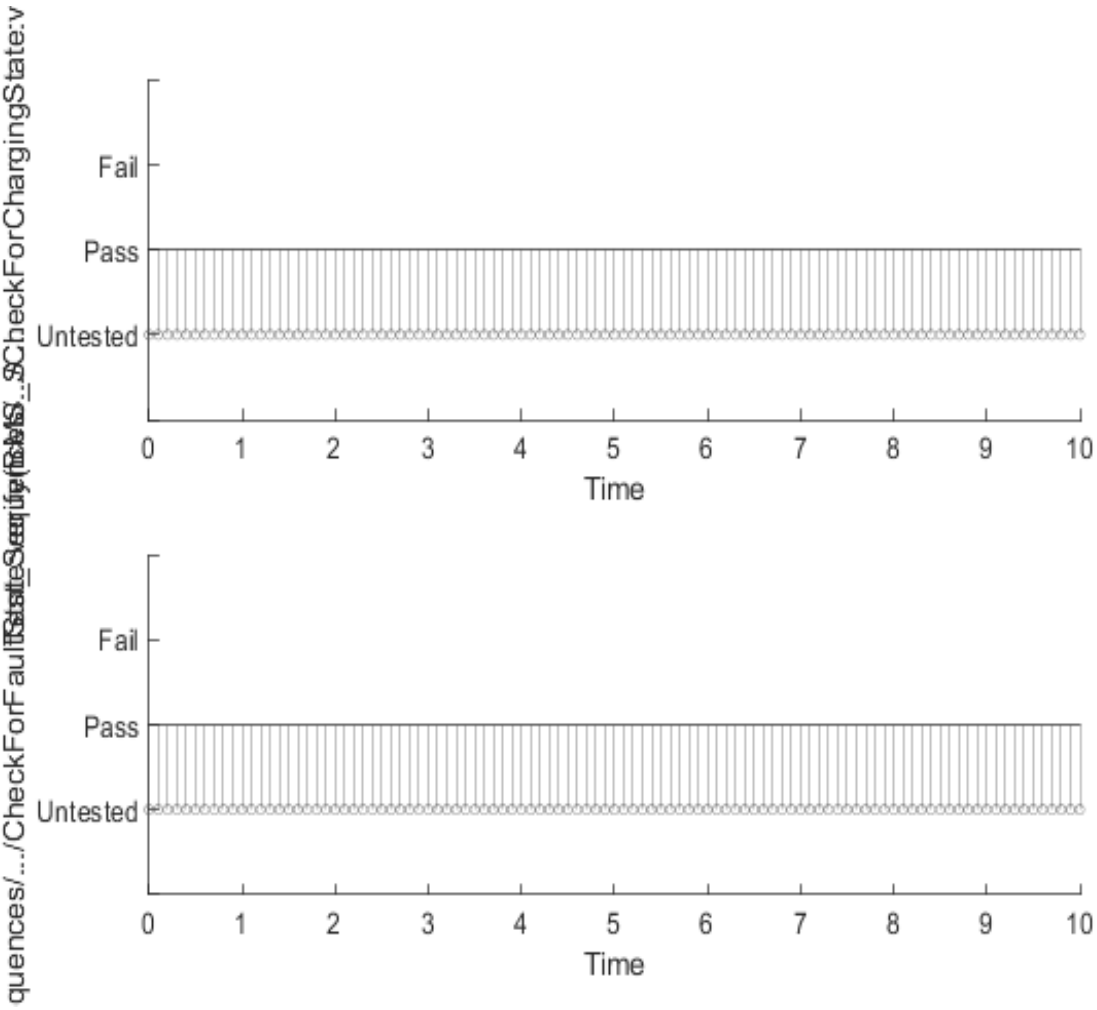
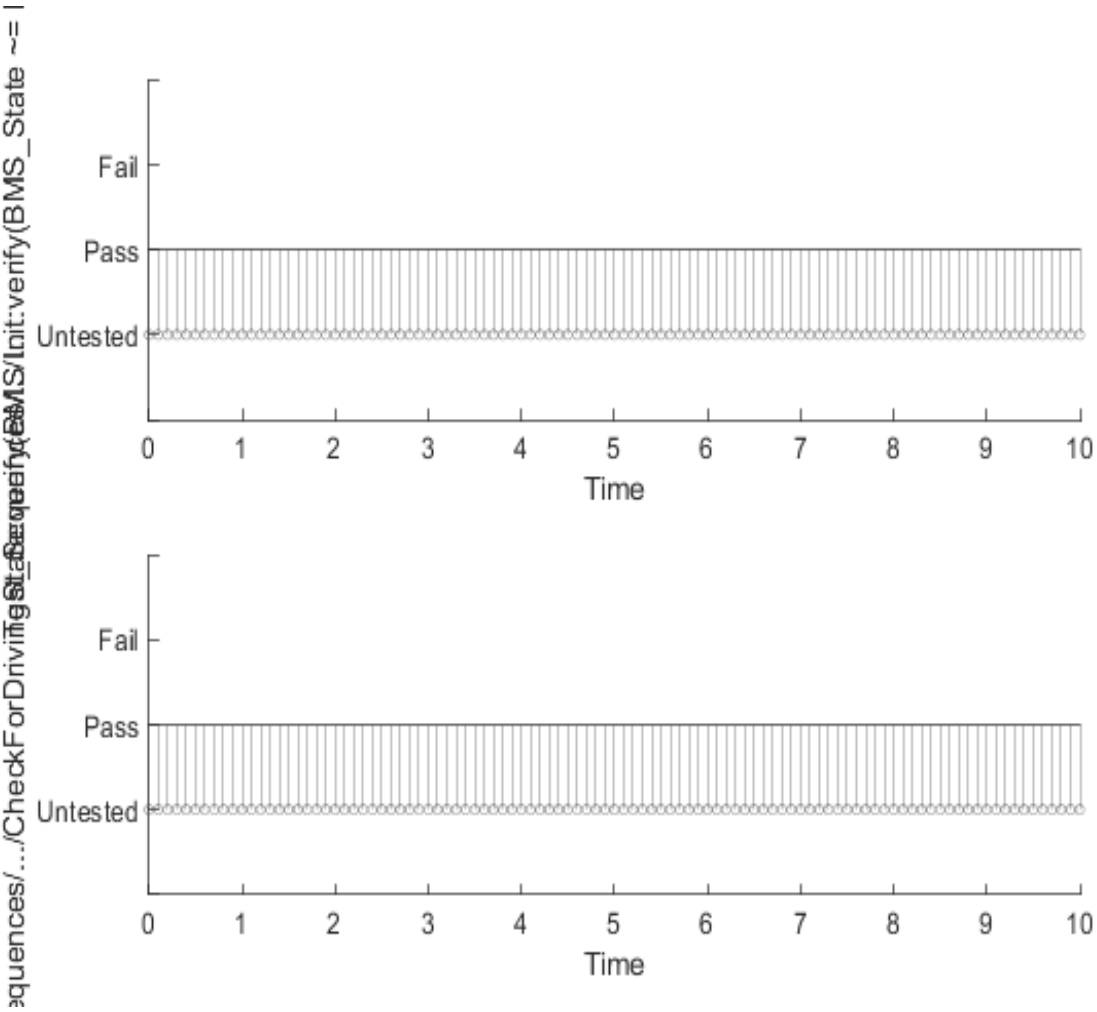
Name
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



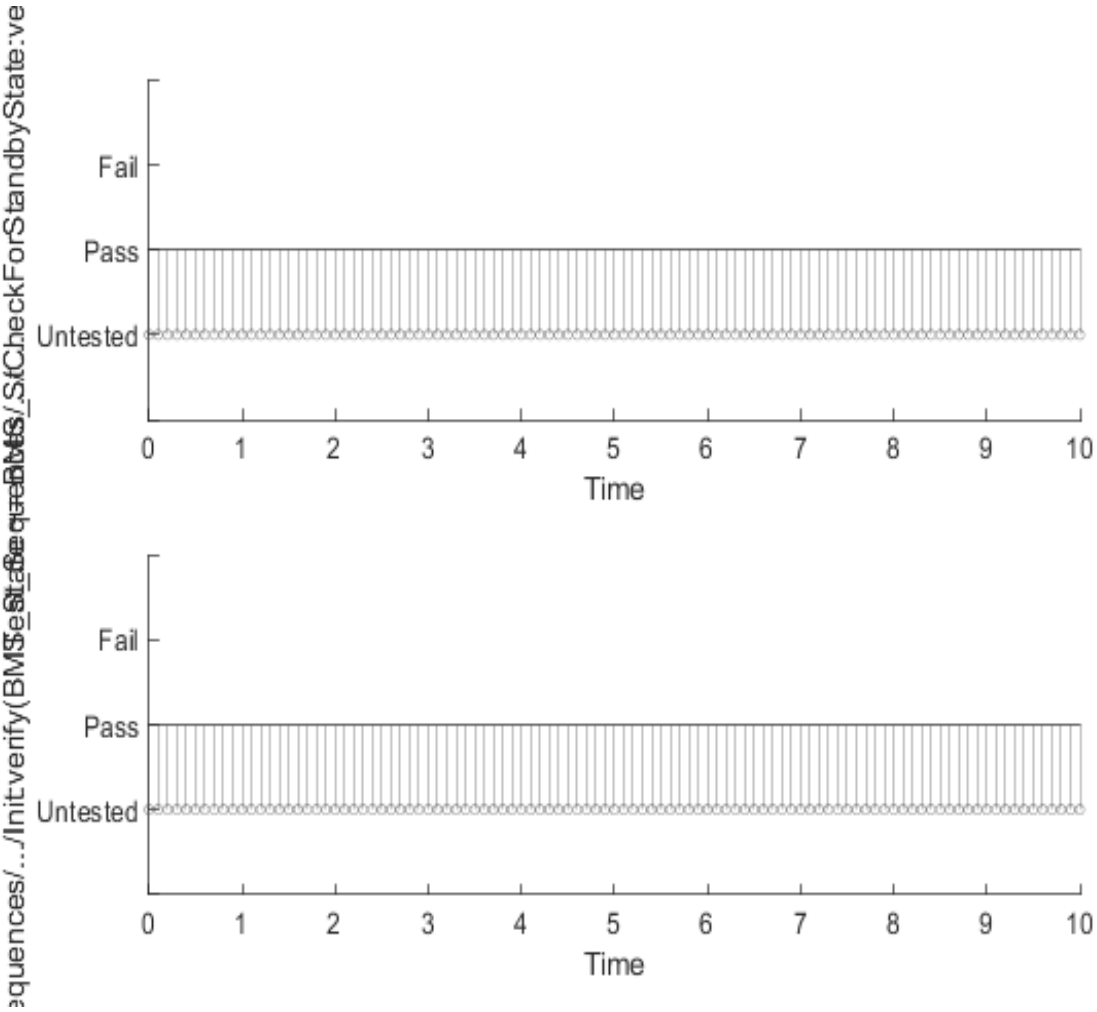
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)



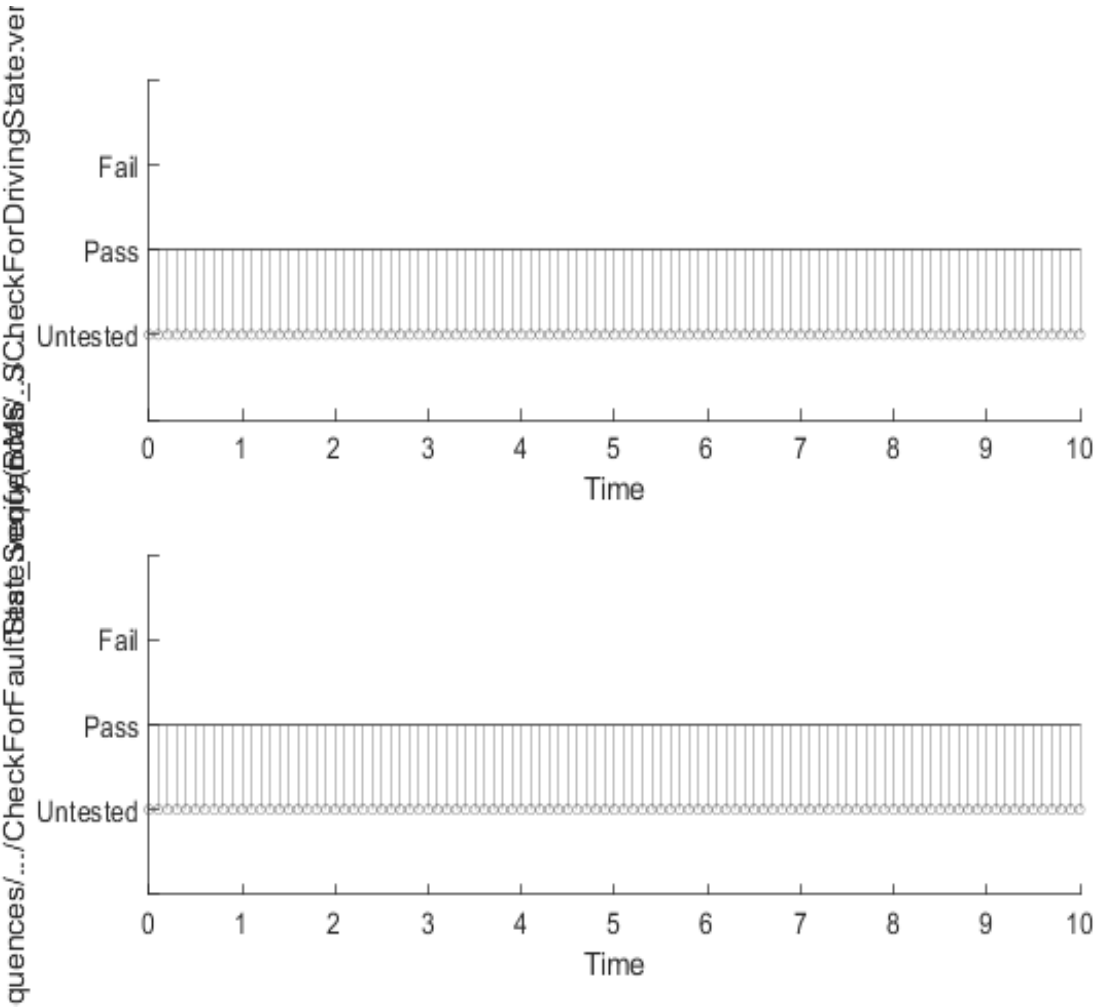
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



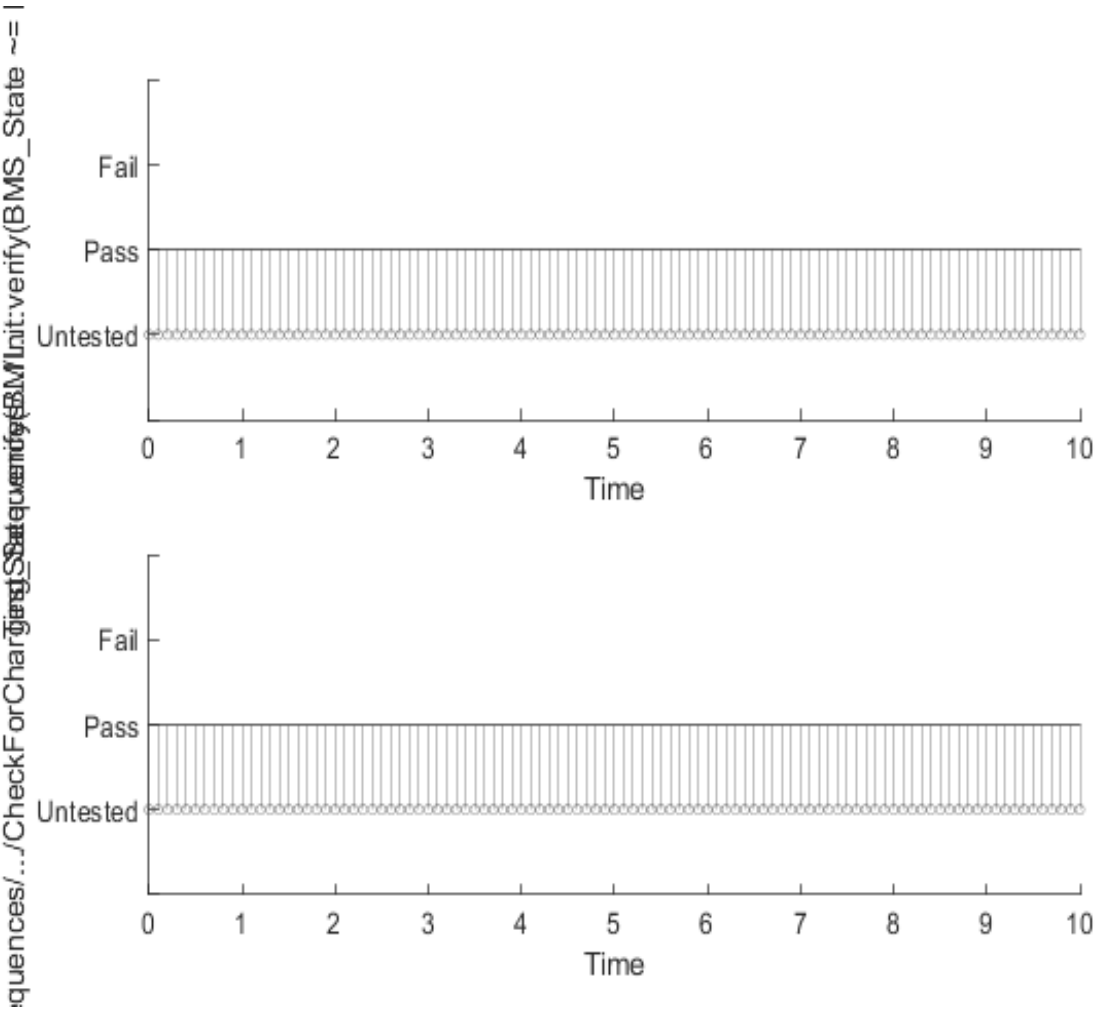
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



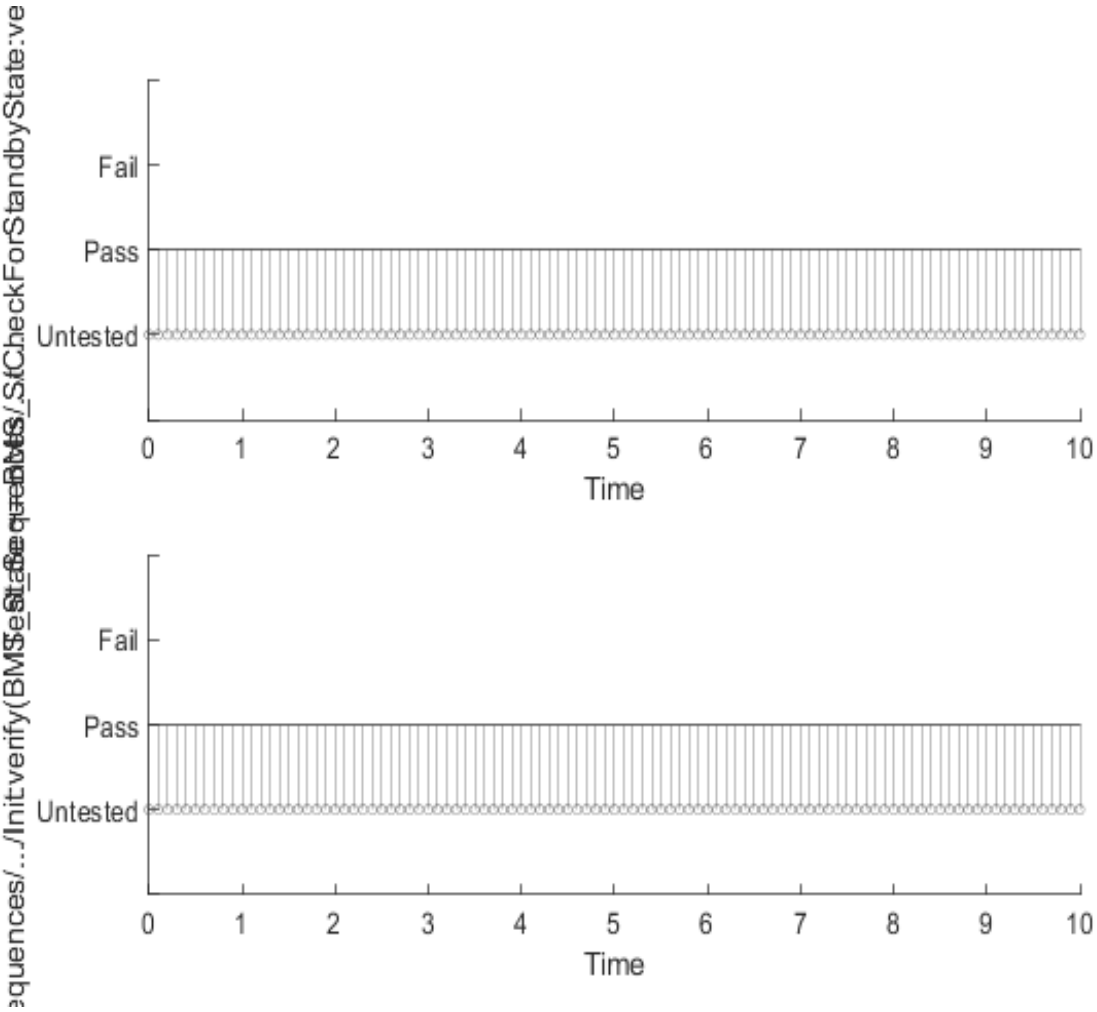
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



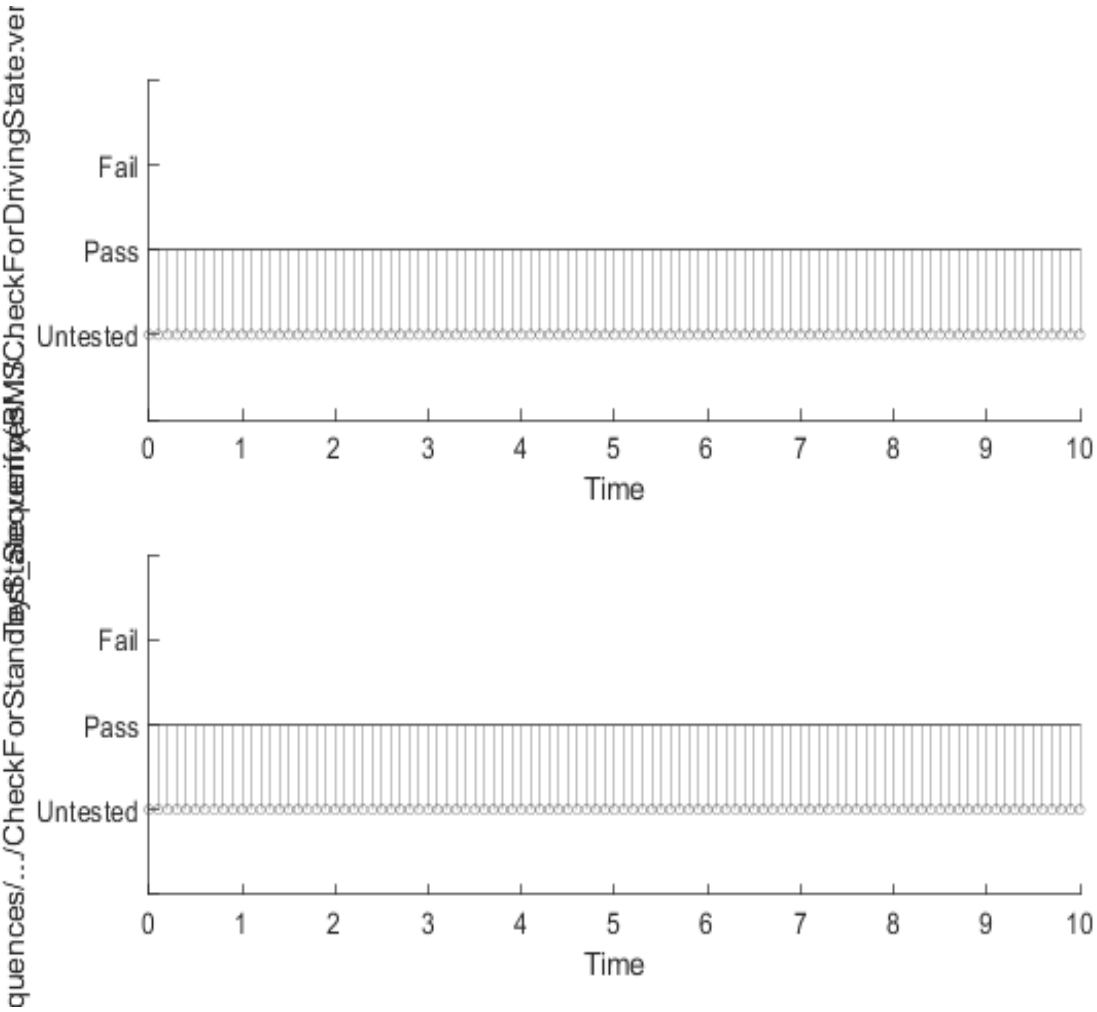
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)



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Simulation

System Under Test Information

Model:	State_Machine
Harness:	State_Machine_Harness2
Harness Owner:	State_Machine
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	BMS_Sw_CodeGenConfig1
Test Sequence Block:	State_Machine_Harness2/Test_Sequences
Test Sequence Scenario:	Standby
Start Time:	0
Stop Time:	10
Checksum:	1029195696 3900080333 984667206 1092934476
Simulink Version:	10.5
Model Version:	1.29
Model Author:	cpatel
Date:	Mon Jun 06 19:19:20 2022
User ID:	cpatel
Model Path:	C:\Users\cpatel\Documents\BatteryManagementSystem\Tests\StateMachine\State_Machine_Harness2.slx
Machine Name:	MATHWORKS-7ORRR
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.10000000000000001
Simulation Start Time:	2022-06-06 19:19:50
Simulation Stop Time:	2022-06-06 19:19:51
Platform:	PCWIN64

StandbyToFault

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:52
End Time:	06-Jun-2022 19:19:54
Outcome:	Passed

Test Case Information

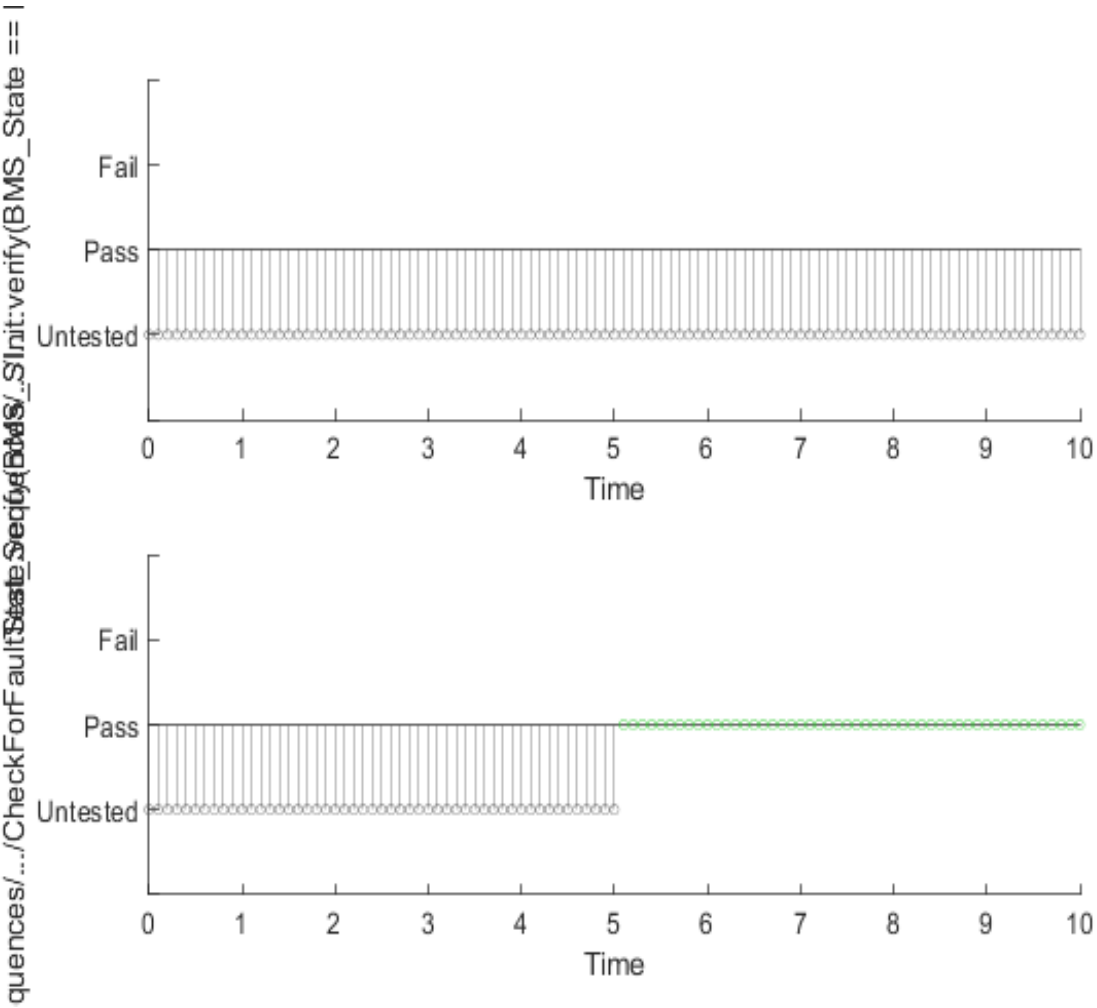
Name:	StandbyToFault

Type: Simulation Test

Verify Result

Name	Link to Plot
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link

Name
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



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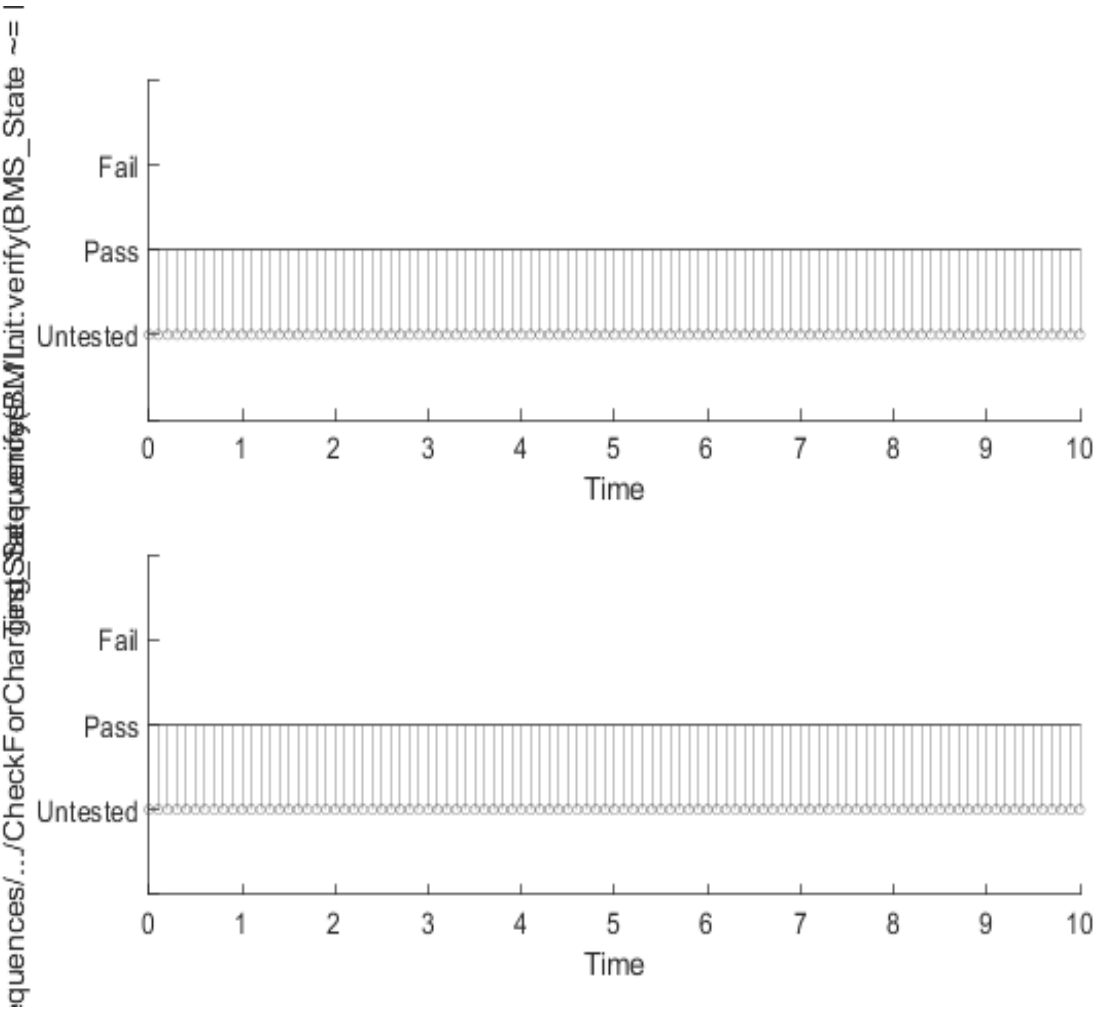
Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



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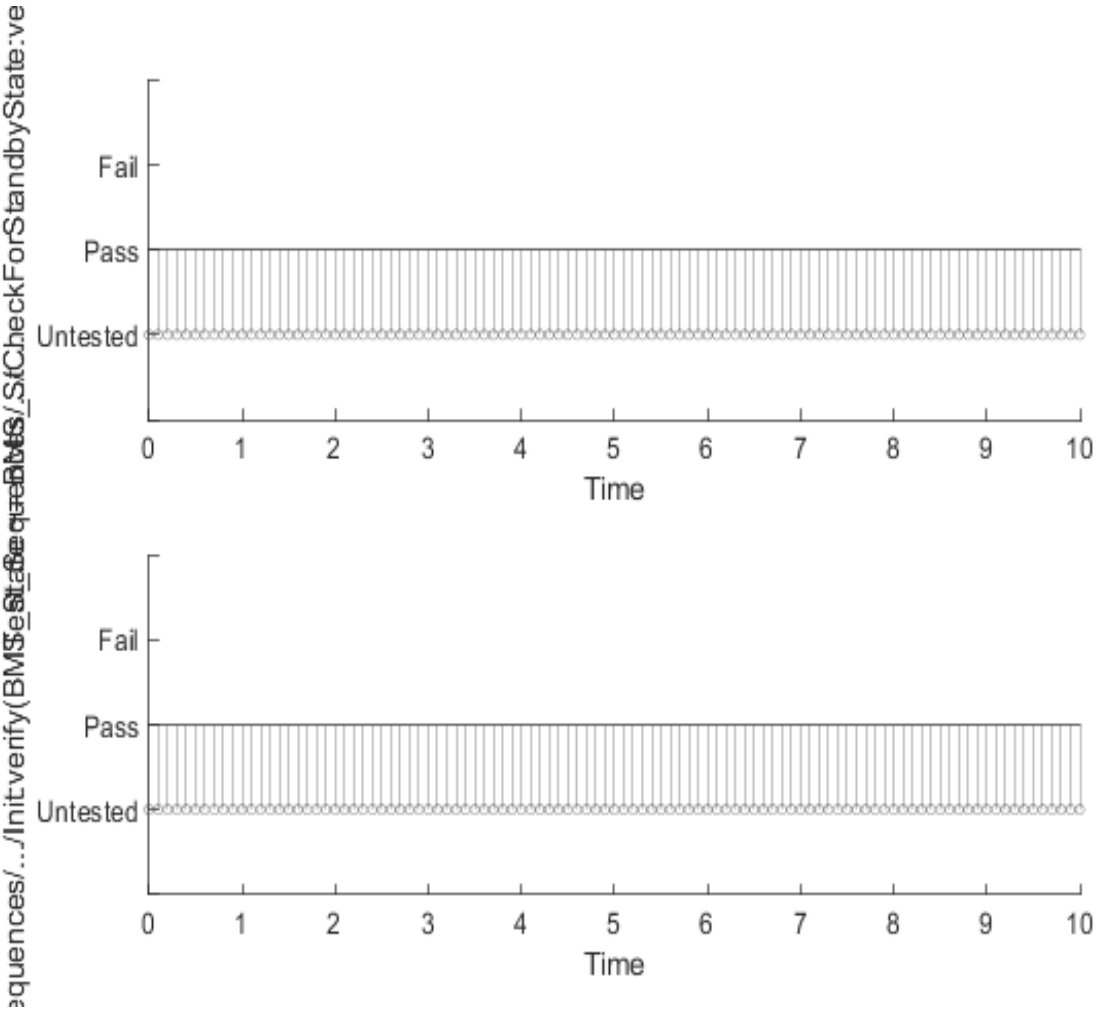
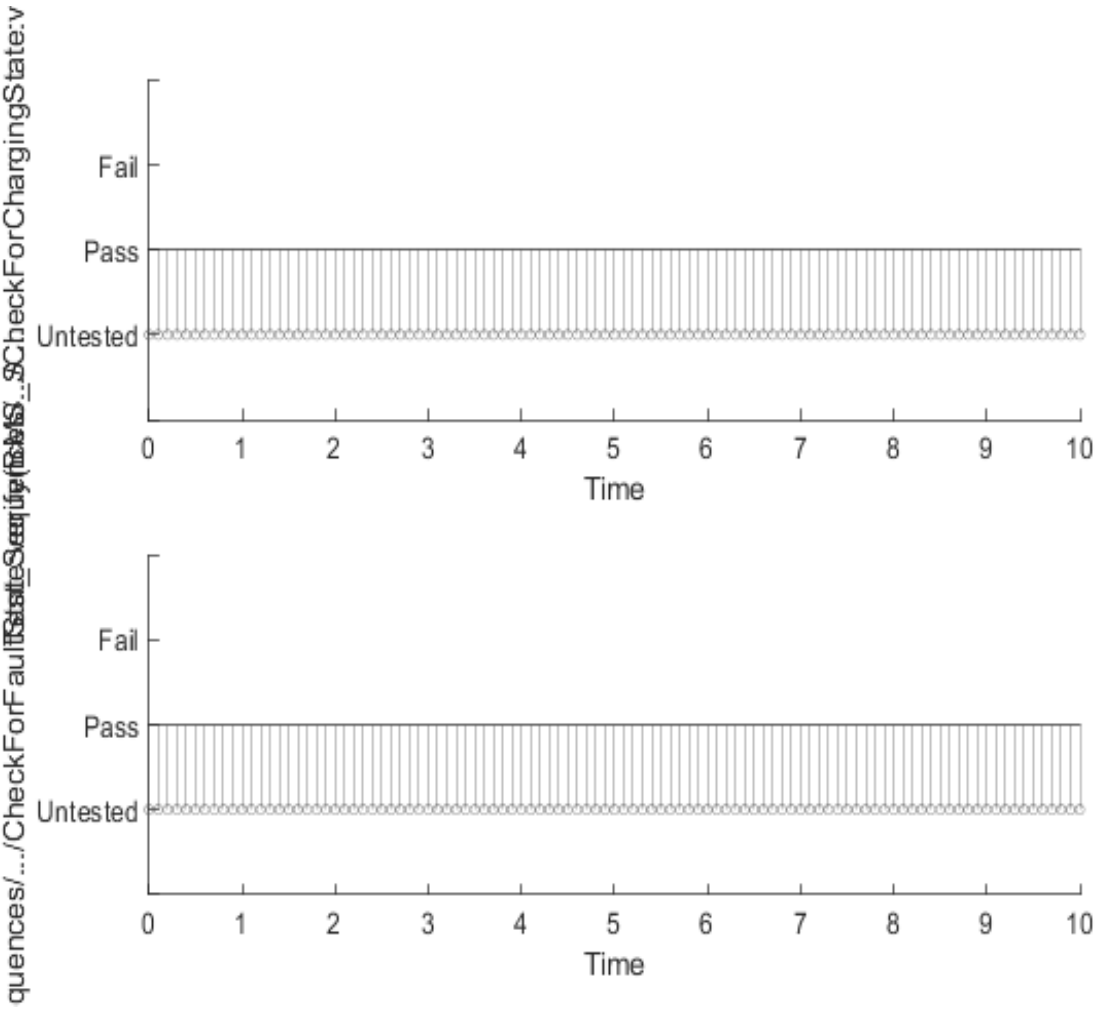
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)



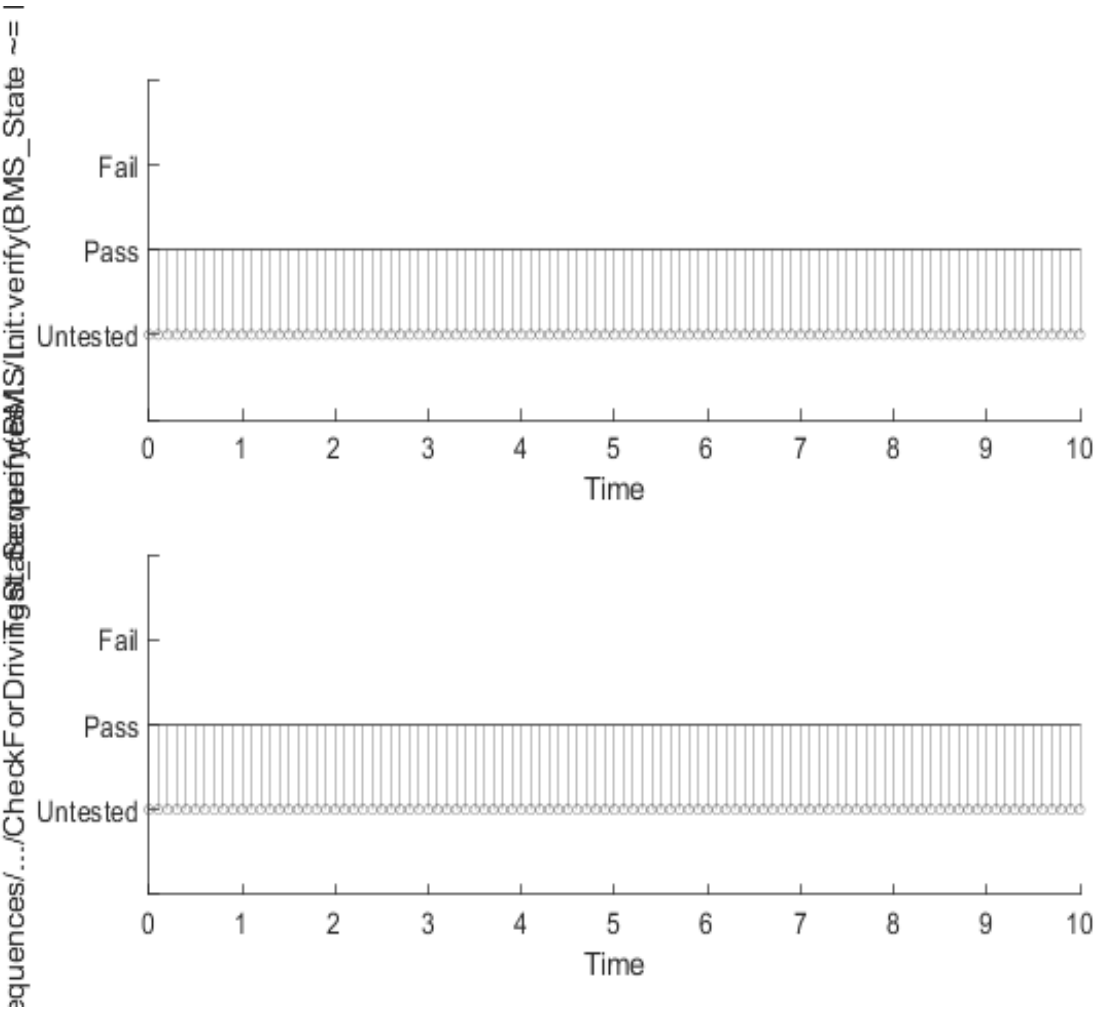
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



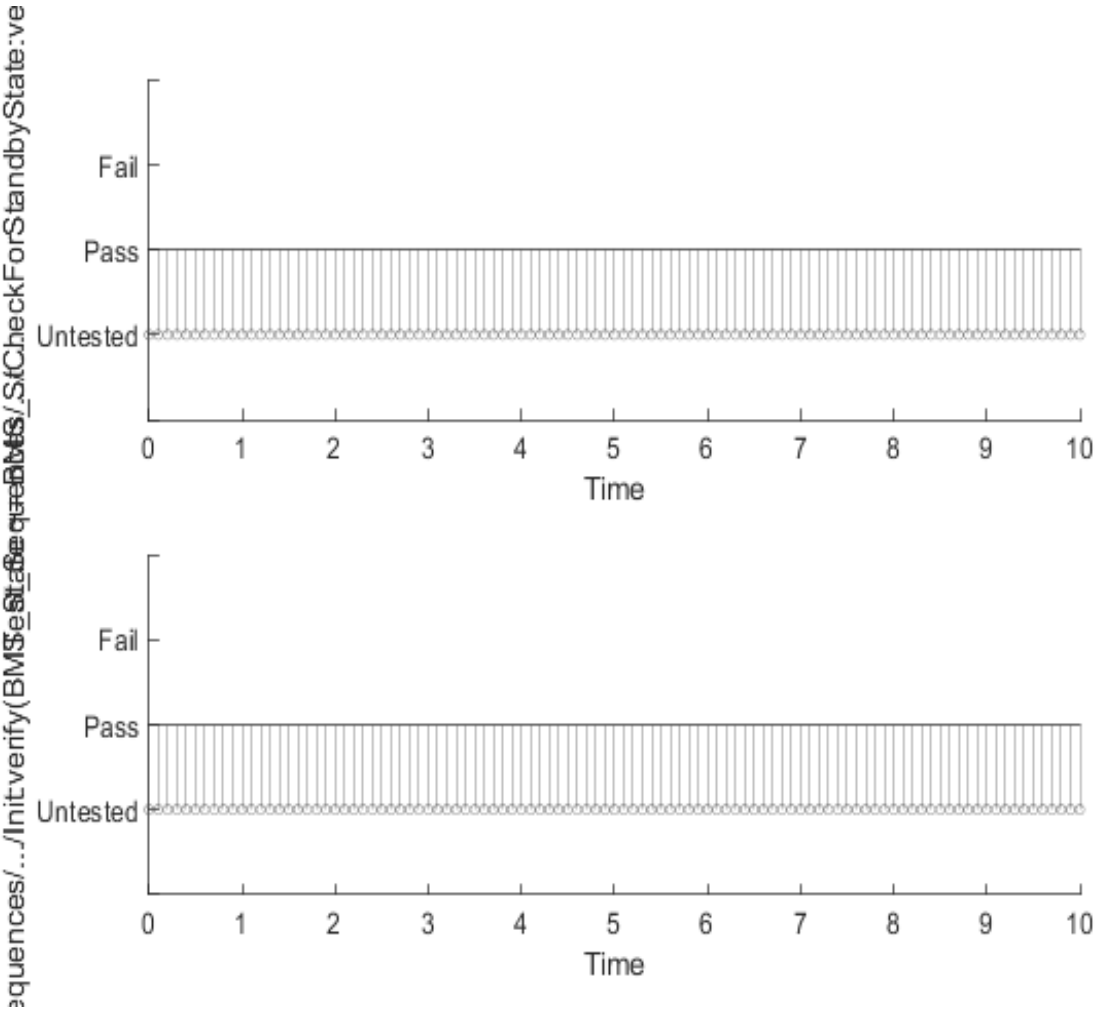
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



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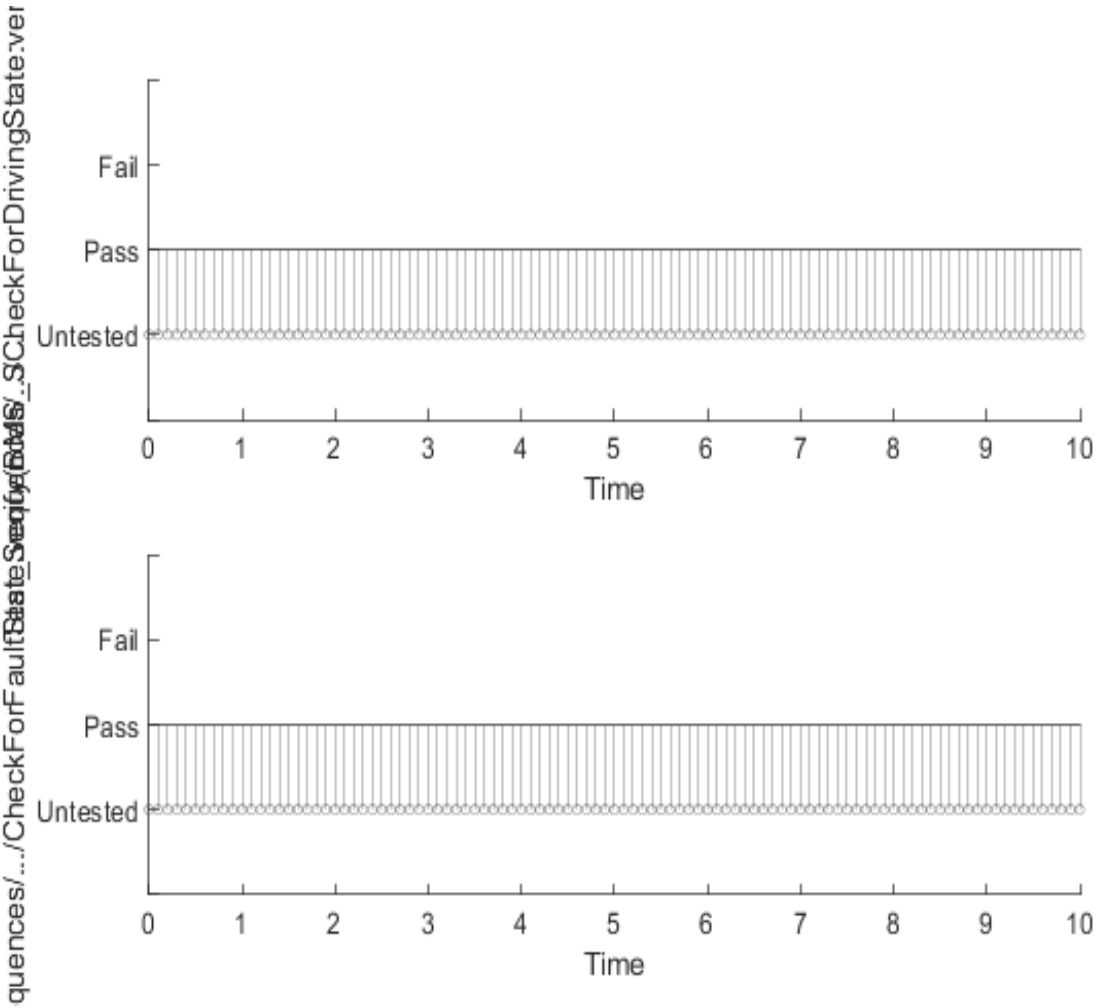
Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



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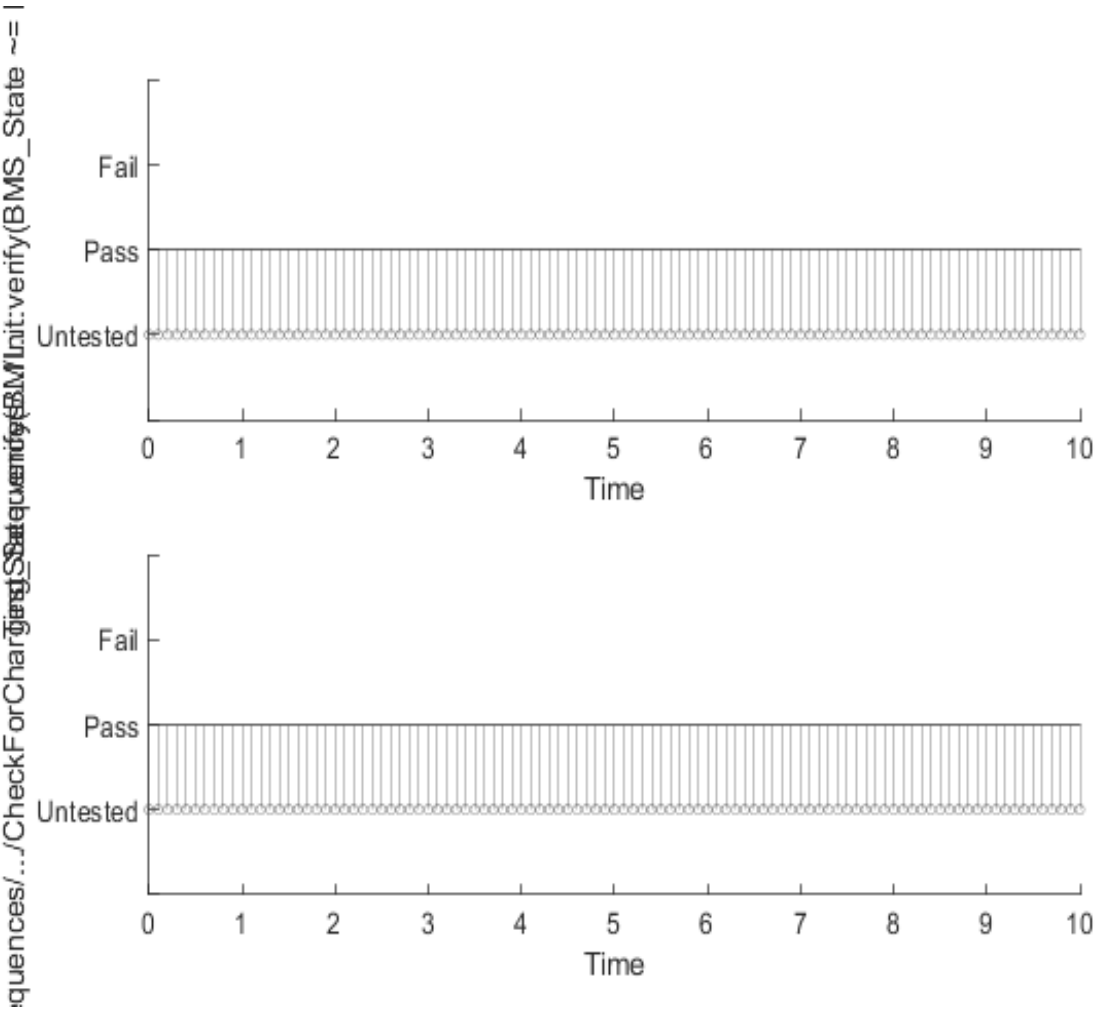
Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



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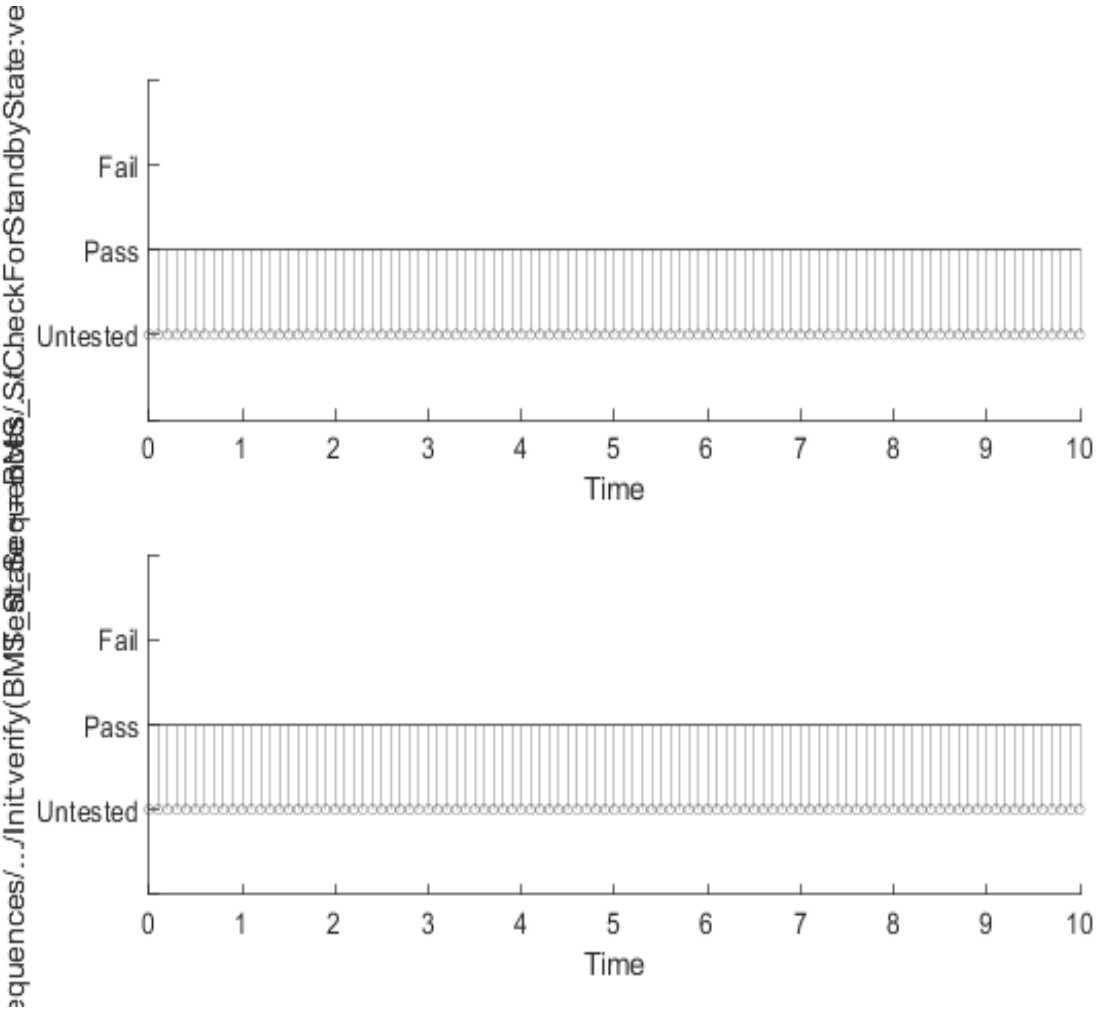
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



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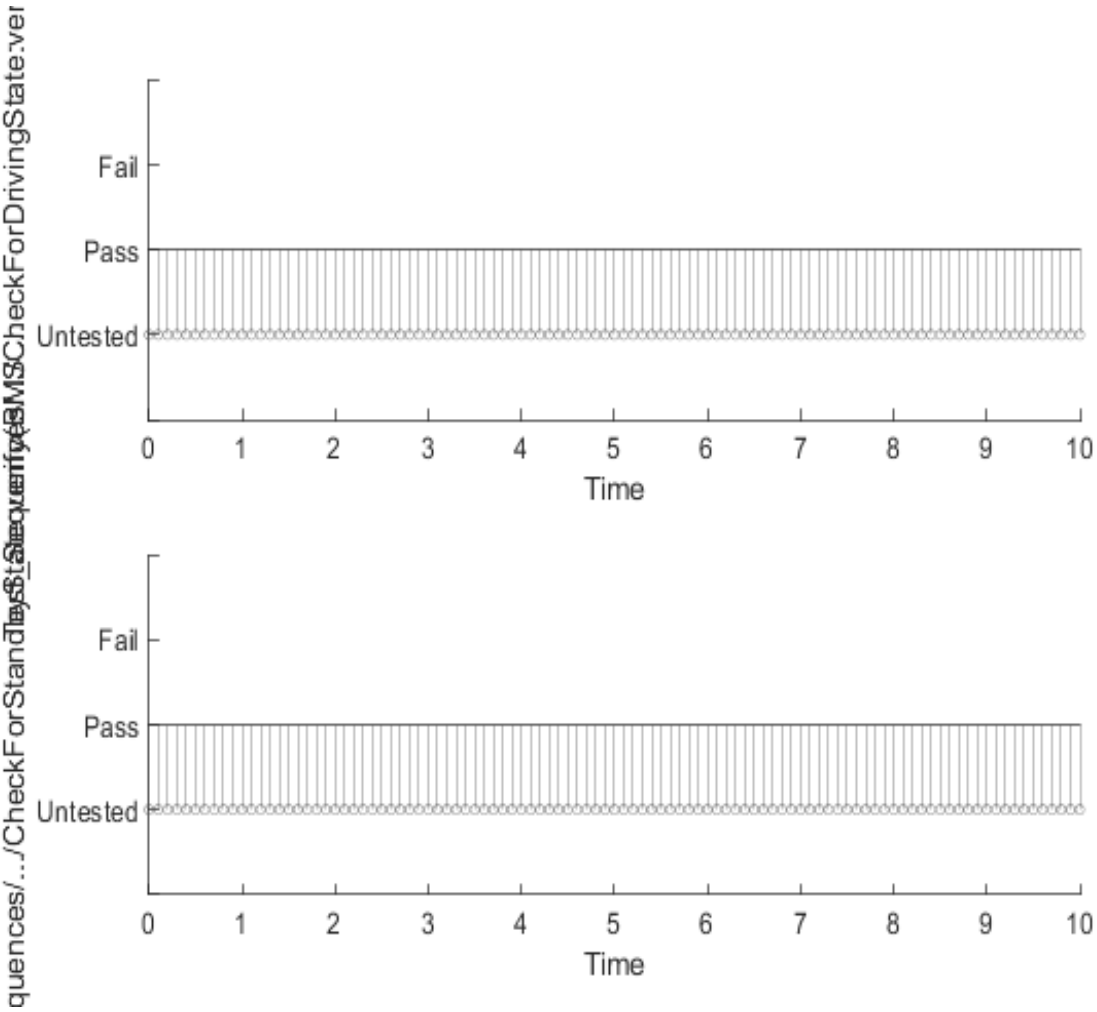
Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)



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Simulation

System Under Test Information

Model:	State_Machine
Harness:	State_Machine_Harness2
Harness Owner:	State_Machine
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	BMS_Sw_CodeGenConfig1
Test Sequence Block:	State_Machine_Harness2/Test_Sequences
Test Sequence Scenario:	StandbyToFault
Start Time:	0
Stop Time:	10
Checksum:	1029195696 3900080333 984667206 1092934476
Simulink Version:	10.5
Model Version:	1.29
Model Author:	cpatel
Date:	Mon Jun 06 19:19:20 2022
User ID:	cpatel
Model Path:	C:\Users\cpatel\Documents\BatteryManagementSystem\Tests\StateMachine\State_Machine_Harness2.slx
Machine Name:	MATHWORKS-7ORRR
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.10000000000000001
Simulation Start Time:	2022-06-06 19:19:52
Simulation Stop Time:	2022-06-06 19:19:53
Platform:	PCWIN64

Charging

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:54
End Time:	06-Jun-2022 19:19:55
Outcome:	Passed

Test Case Information

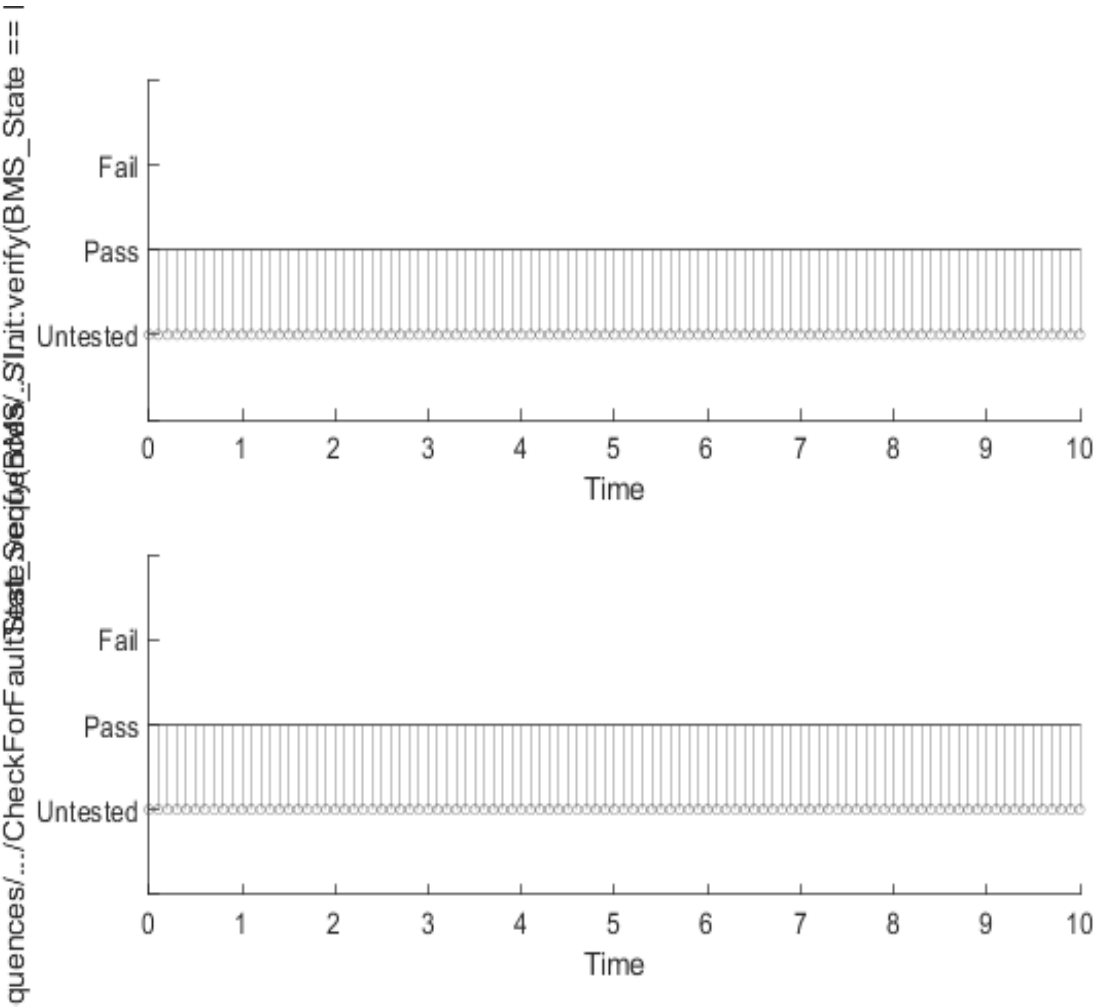
Name:	Charging

Type: Simulation Test

Verify Result

Name	Link to Plot
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link

Name
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



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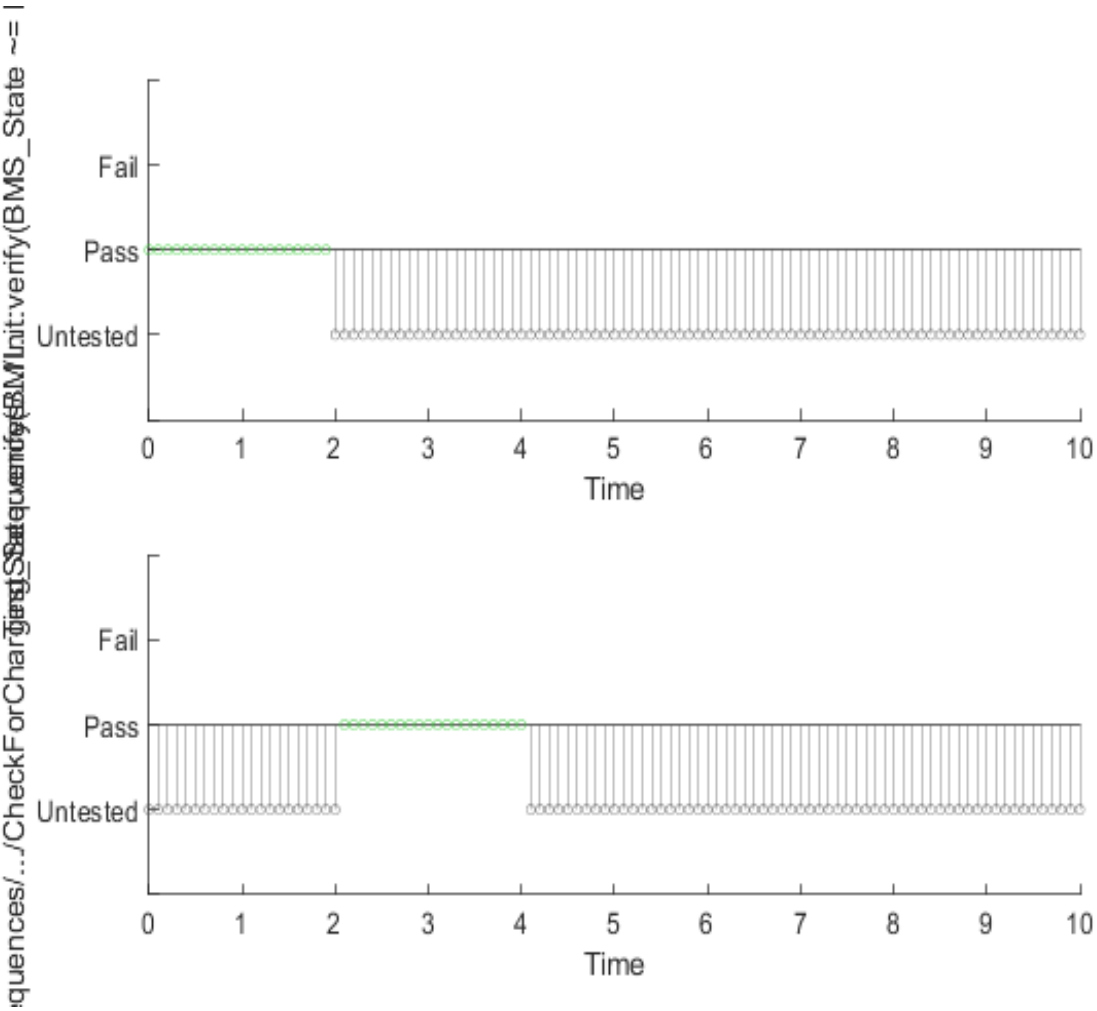
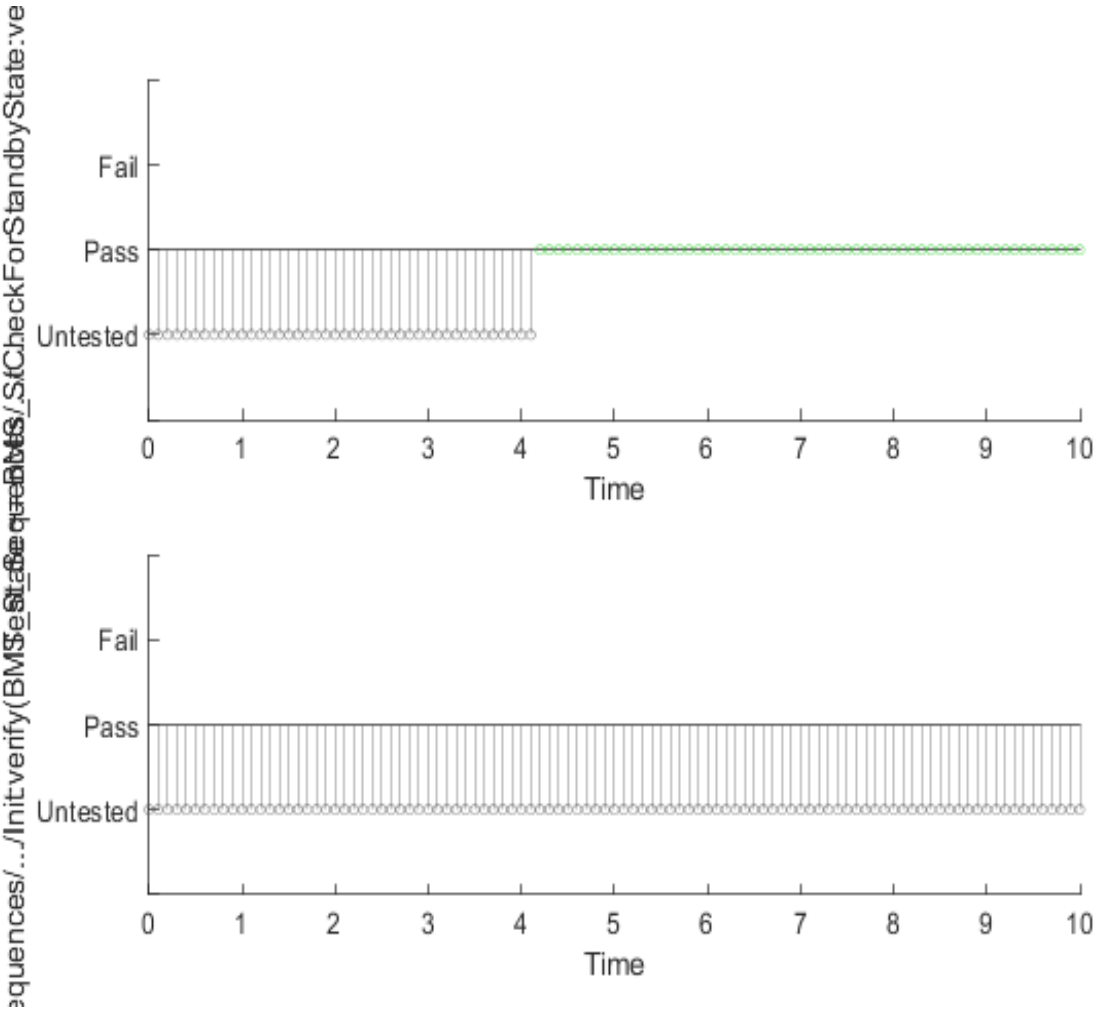
Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



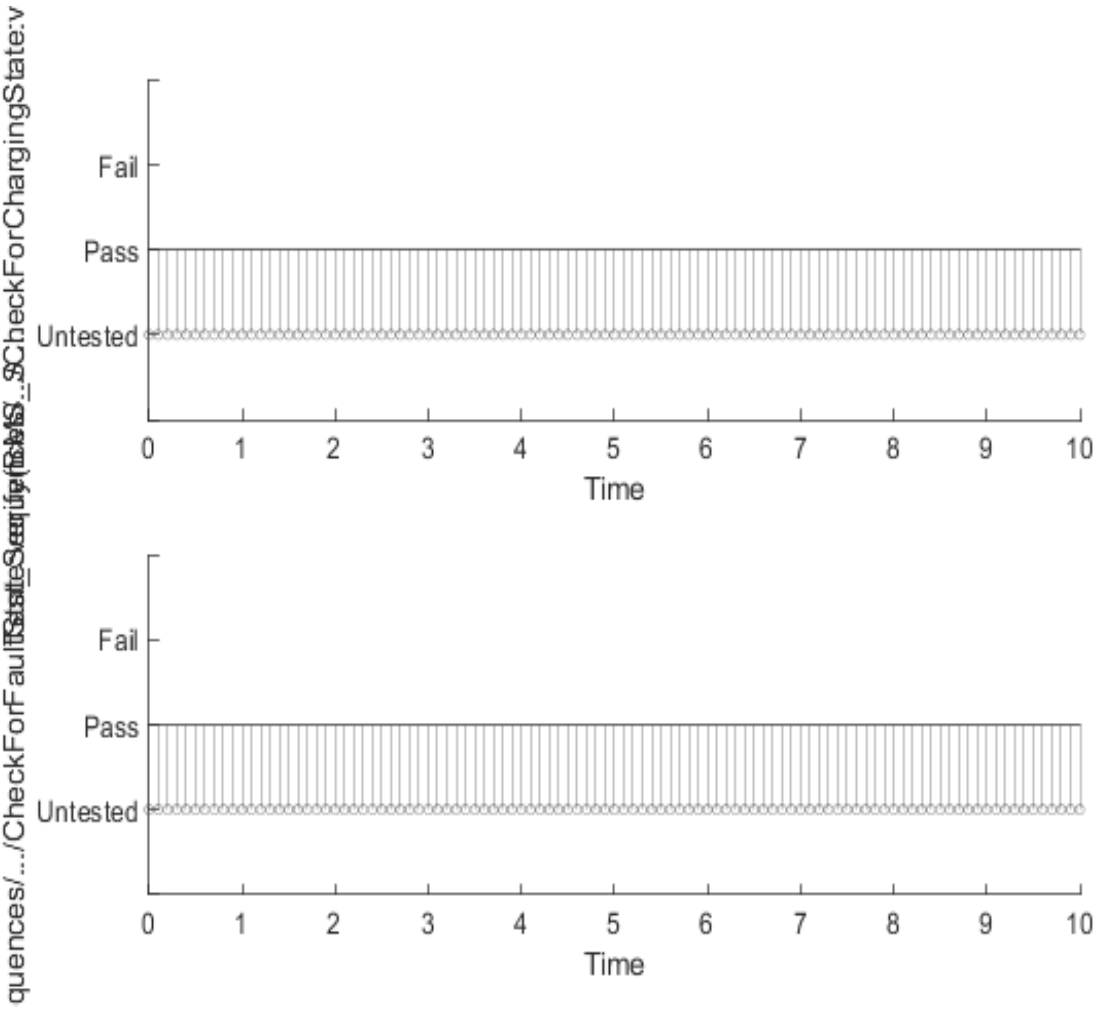
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)



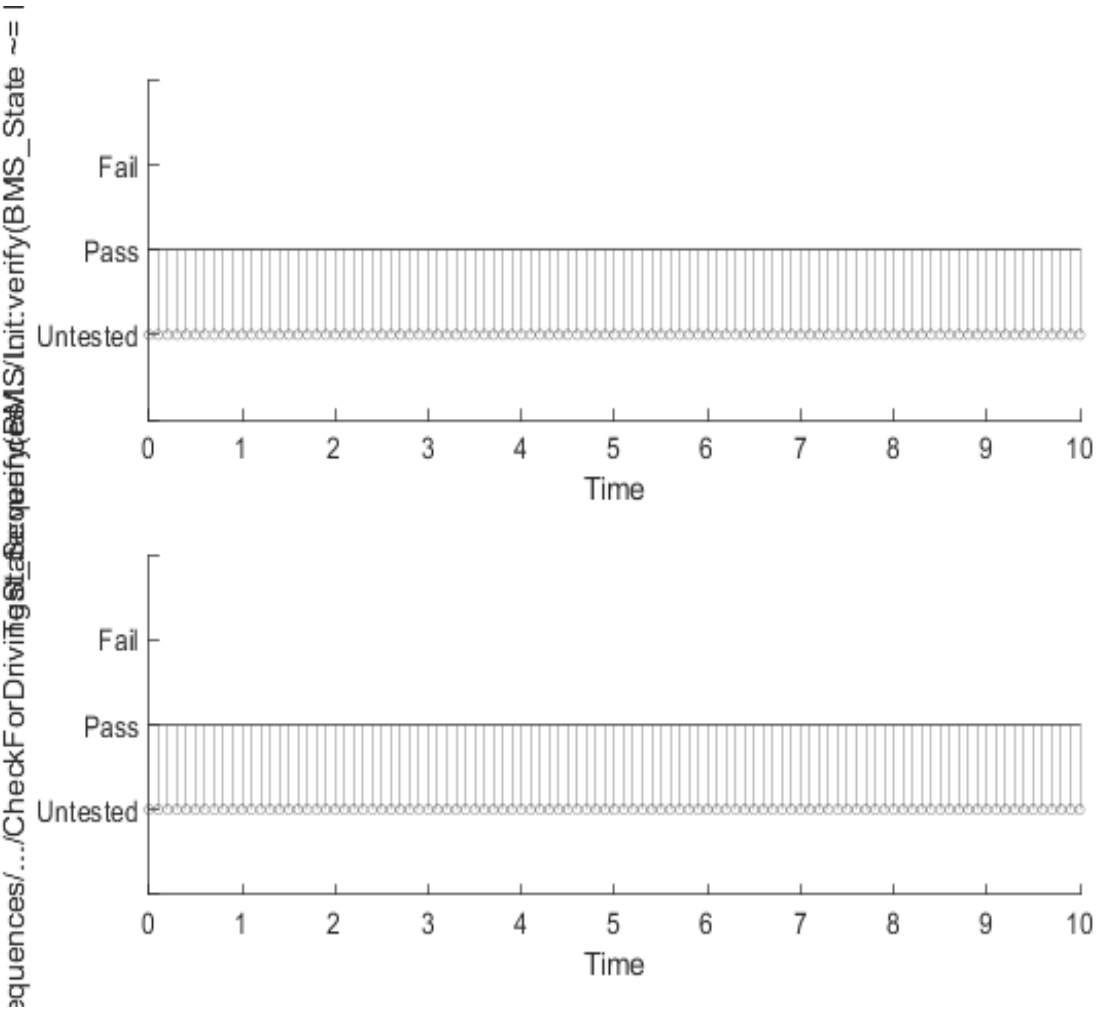
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



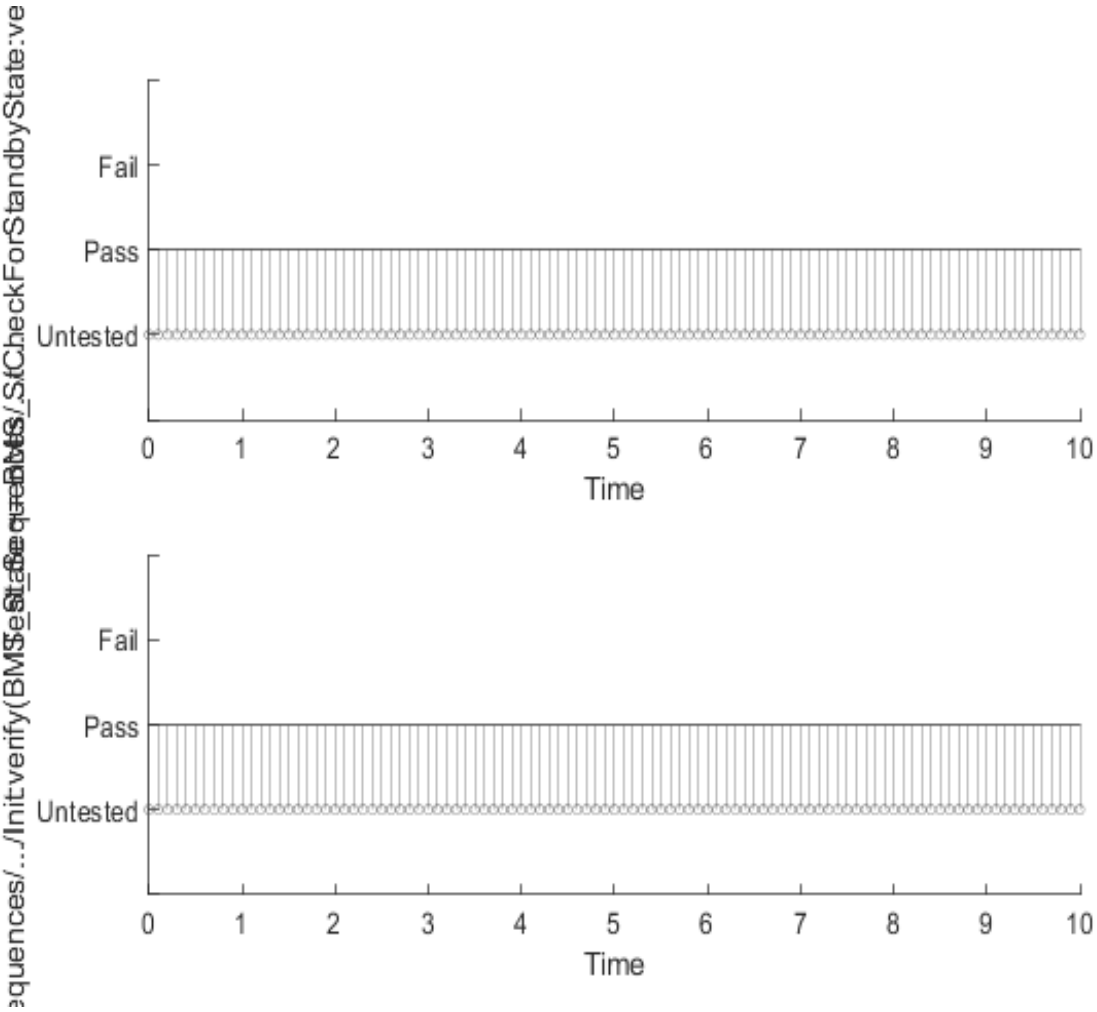
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)



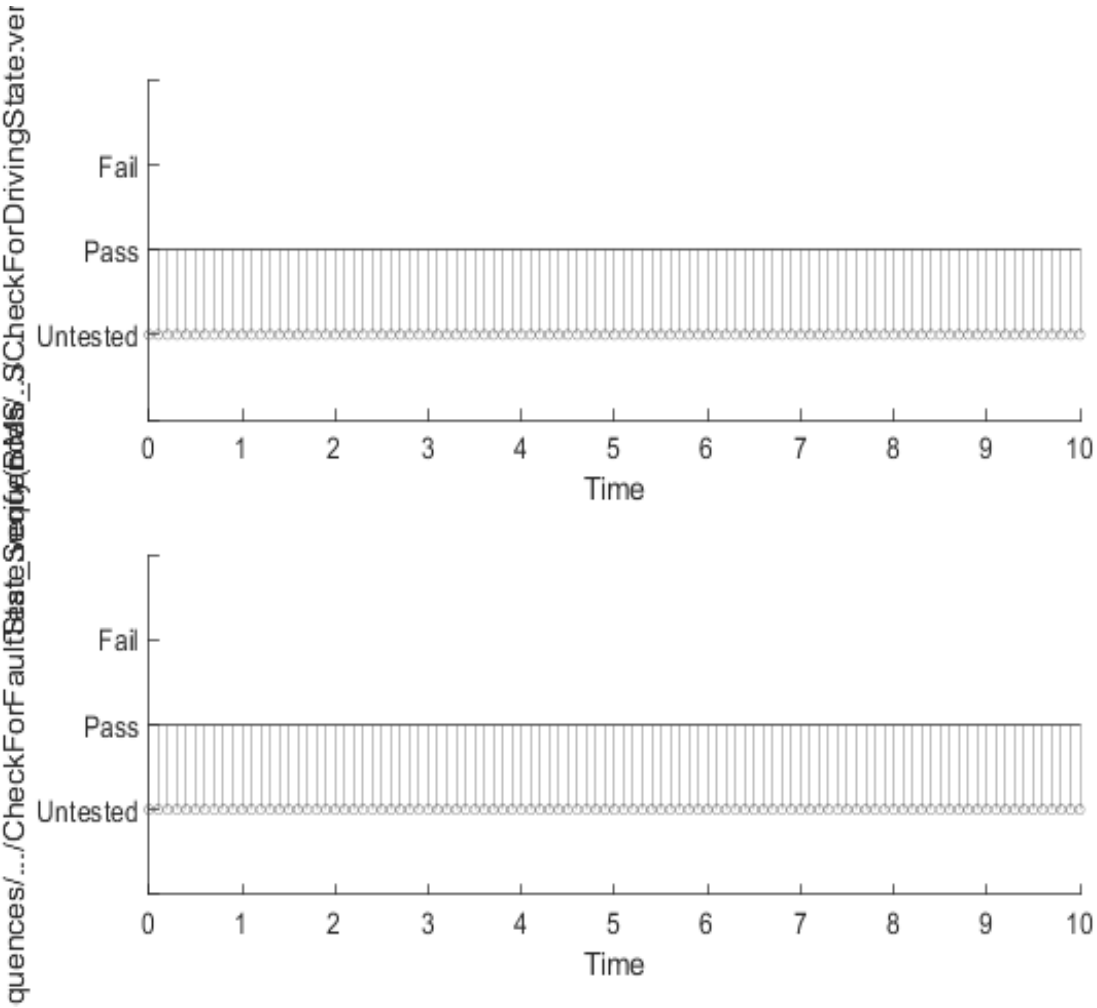
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



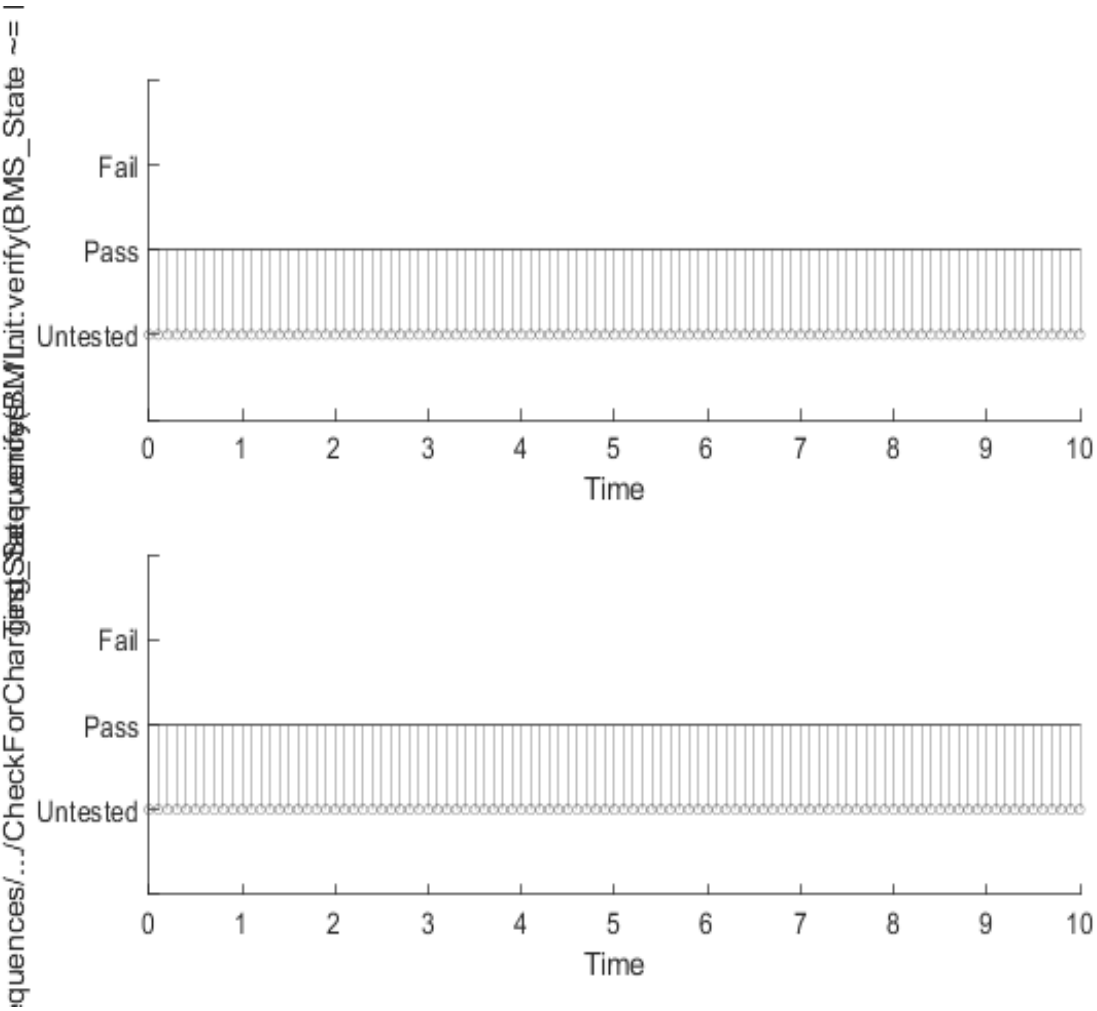
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



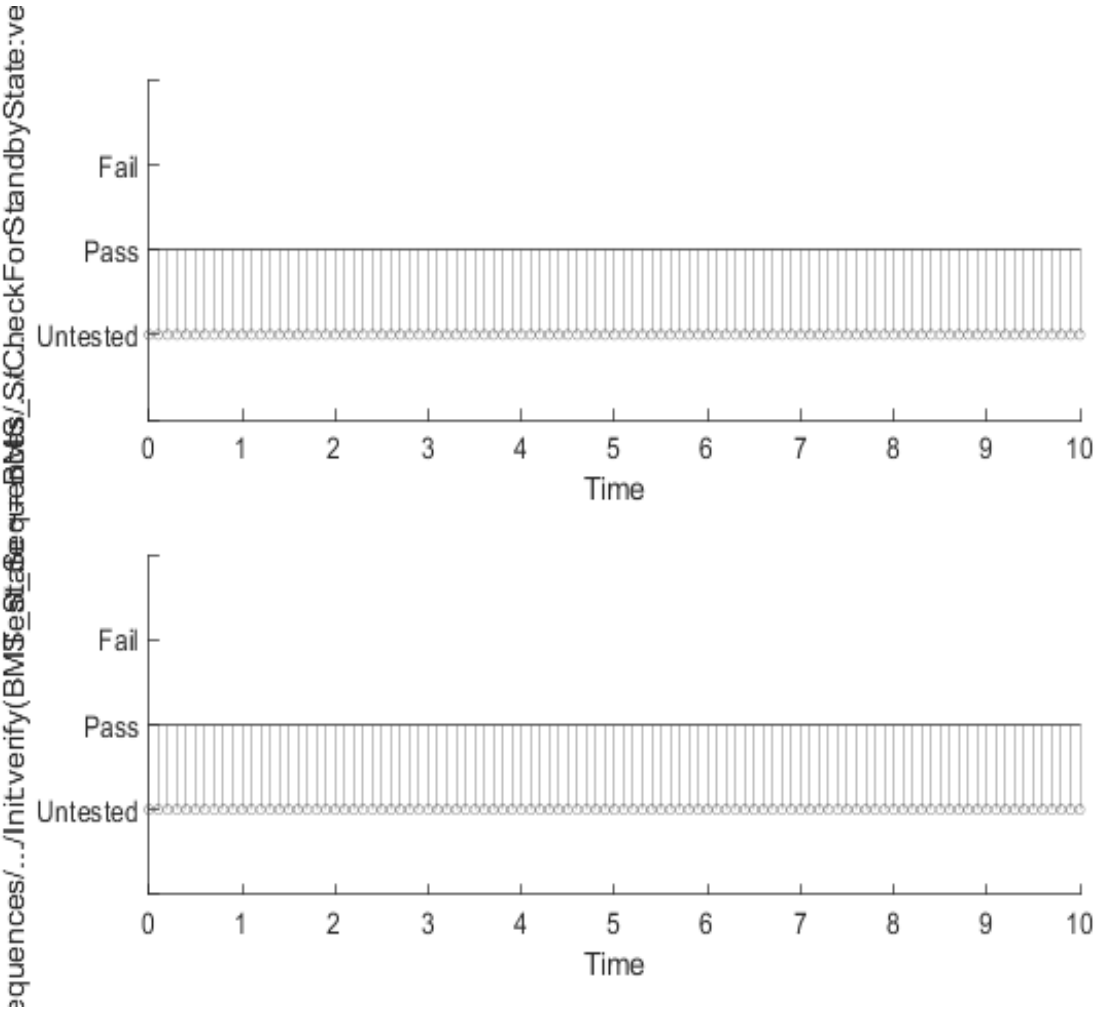
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



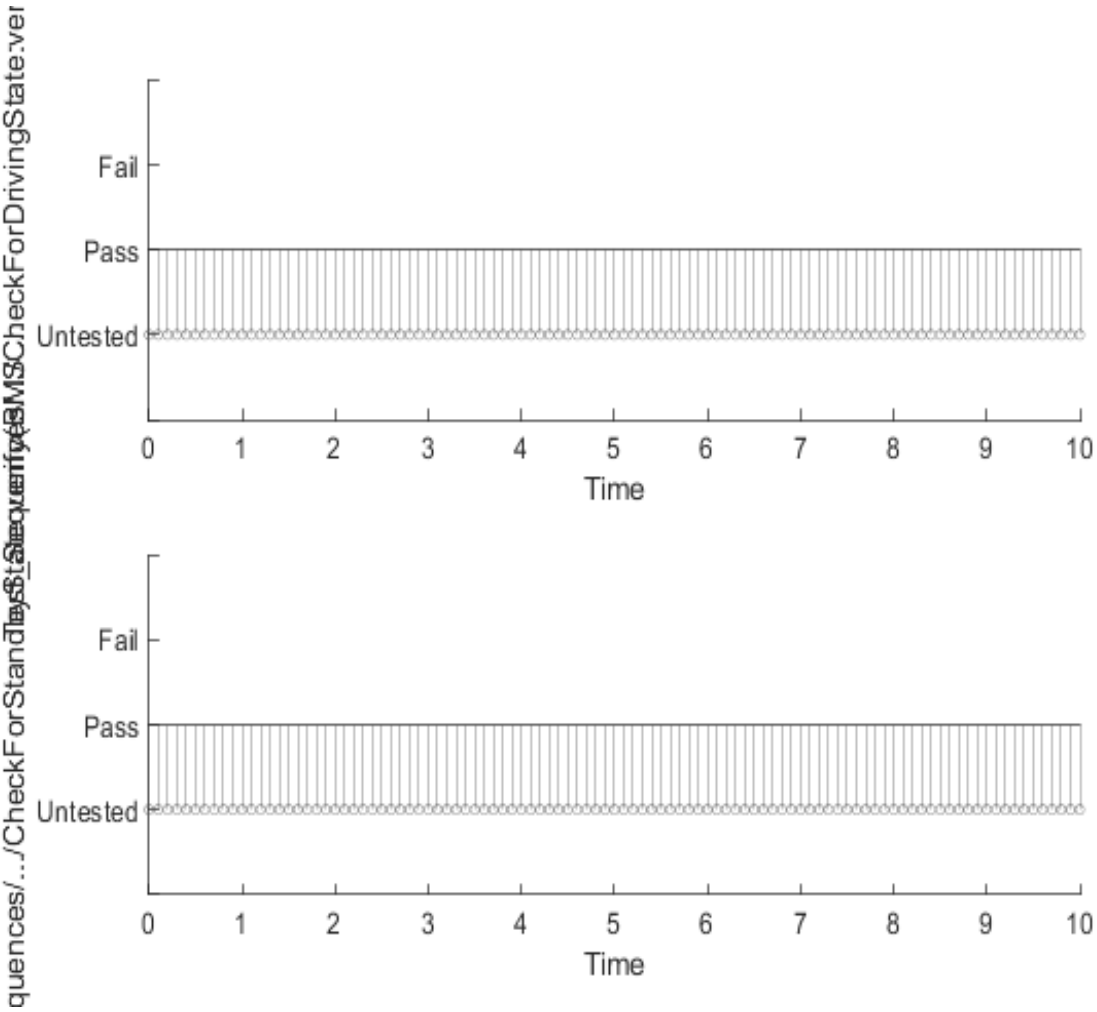
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)



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Simulation

System Under Test Information

Model:	State_Machine
Harness:	State_Machine_Harness2
Harness Owner:	State_Machine
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	BMS_Sw_CodeGenConfig1
Test Sequence Block:	State_Machine_Harness2/Test_Sequences
Test Sequence Scenario:	Charging
Start Time:	0
Stop Time:	10
Checksum:	1029195696 3900080333 984667206 1092934476
Simulink Version:	10.5
Model Version:	1.29
Model Author:	cpatel
Date:	Mon Jun 06 19:19:20 2022
User ID:	cpatel
Model Path:	C:\Users\cpatel\Documents\BatteryManagementSystem\Tests\StateMachine\State_Machine_Harness2.slx
Machine Name:	MATHWORKS-7ORRR
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.10000000000000001
Simulation Start Time:	2022-06-06 19:19:54
Simulation Stop Time:	2022-06-06 19:19:55
Platform:	PCWIN64

ChargingToFault

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:55
End Time:	06-Jun-2022 19:19:57
Outcome:	Passed

Test Case Information

Name:	ChargingToFault

Type: Simulation Test

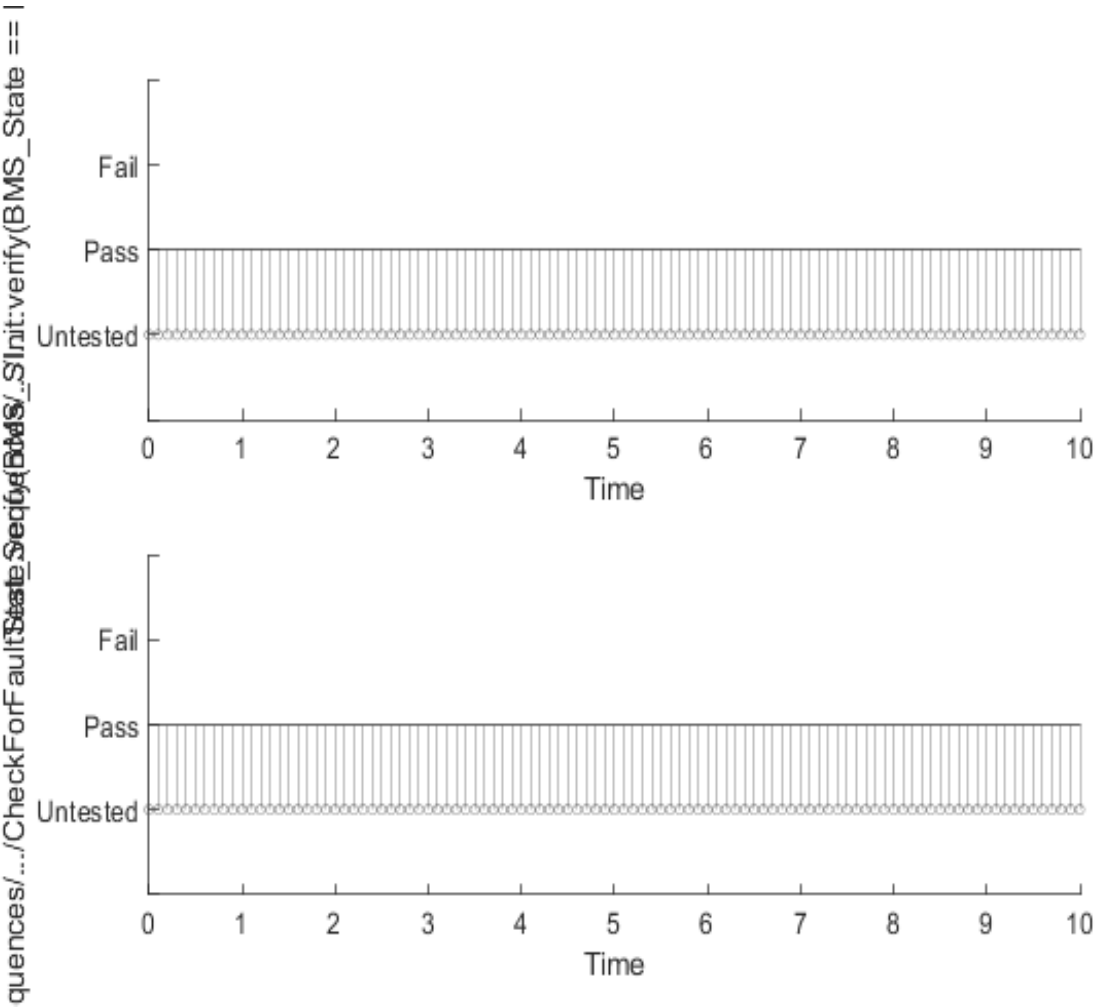
Test Case Requirements

Description: Fault While in Charging State
Document: StateMachine_Requirements.slreqx

Verify Result

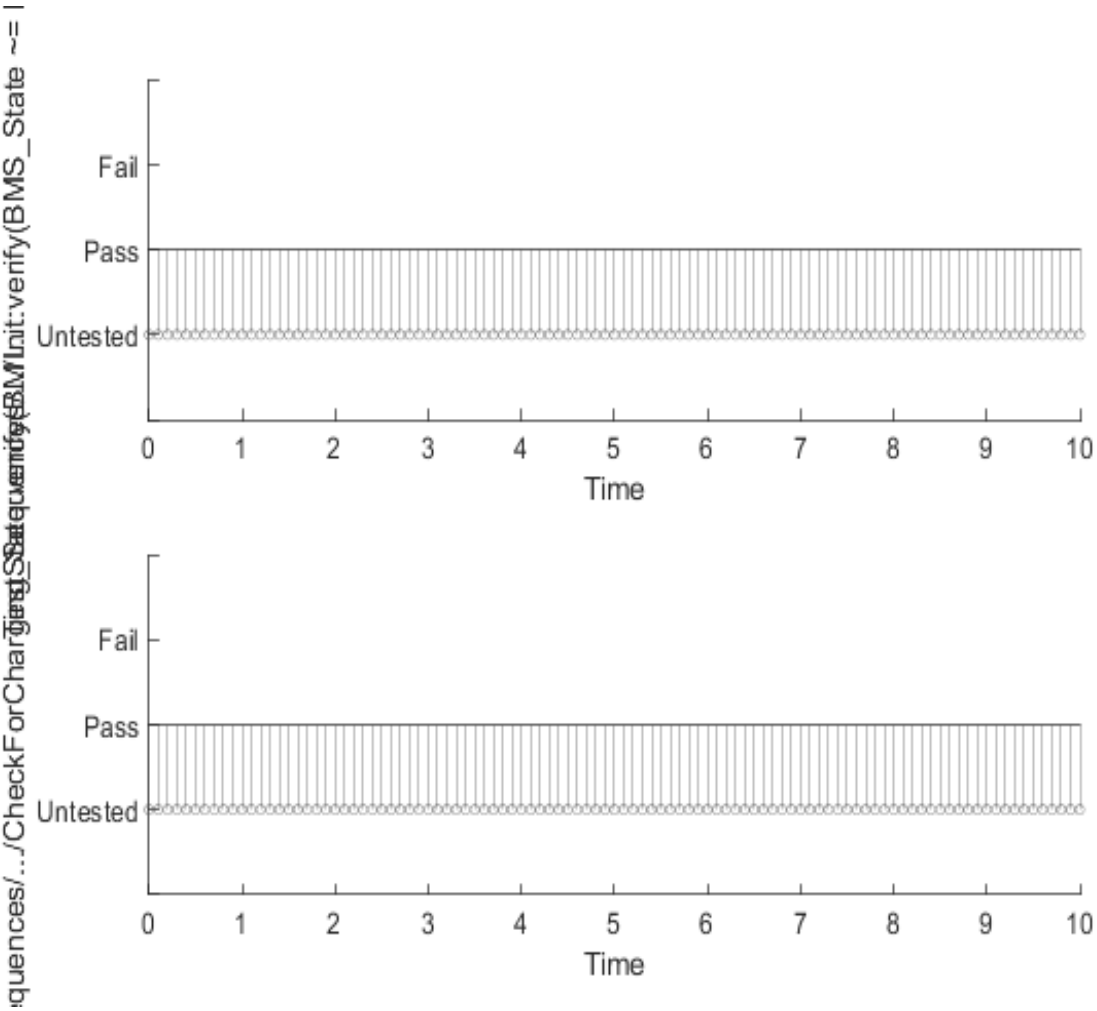
Name	Link to Plot
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link

Name
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



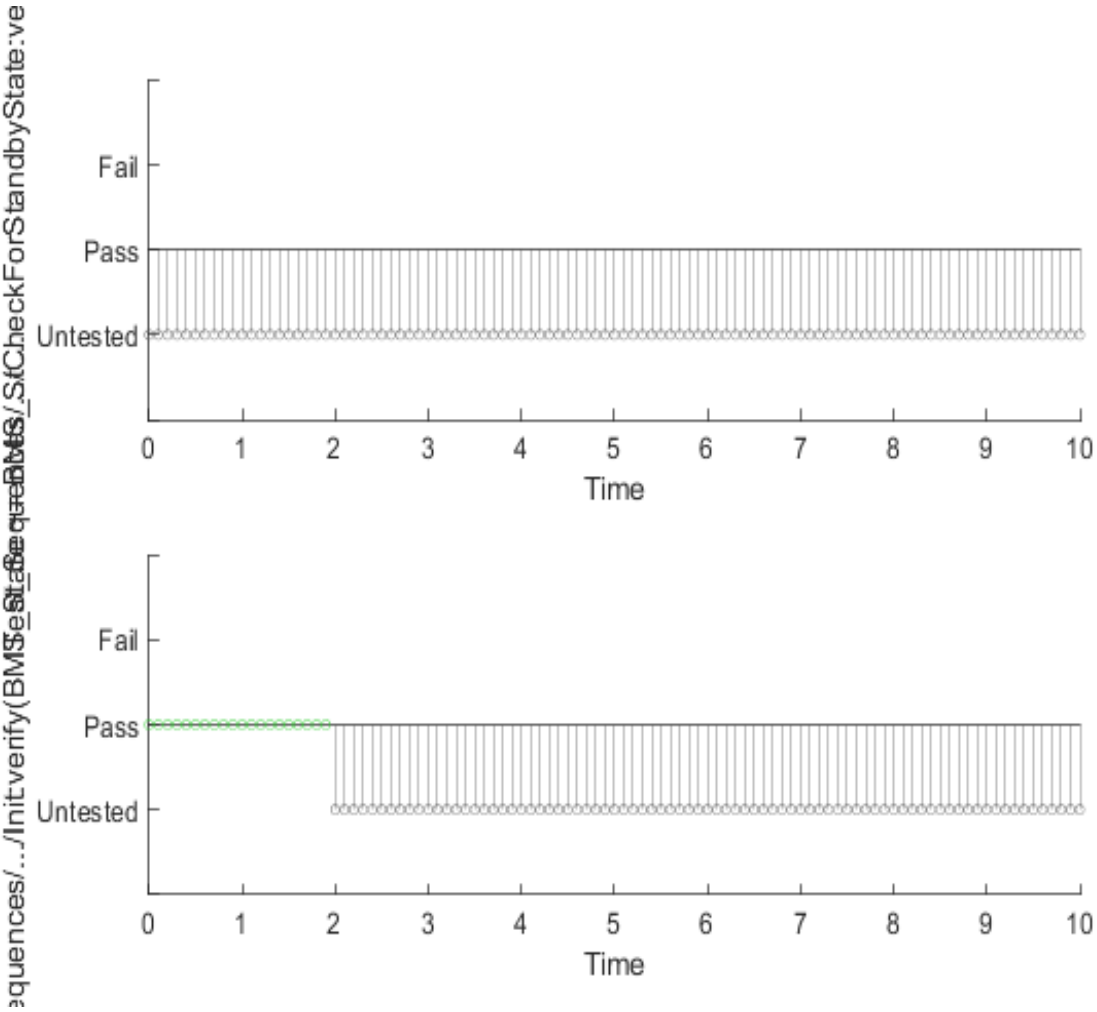
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



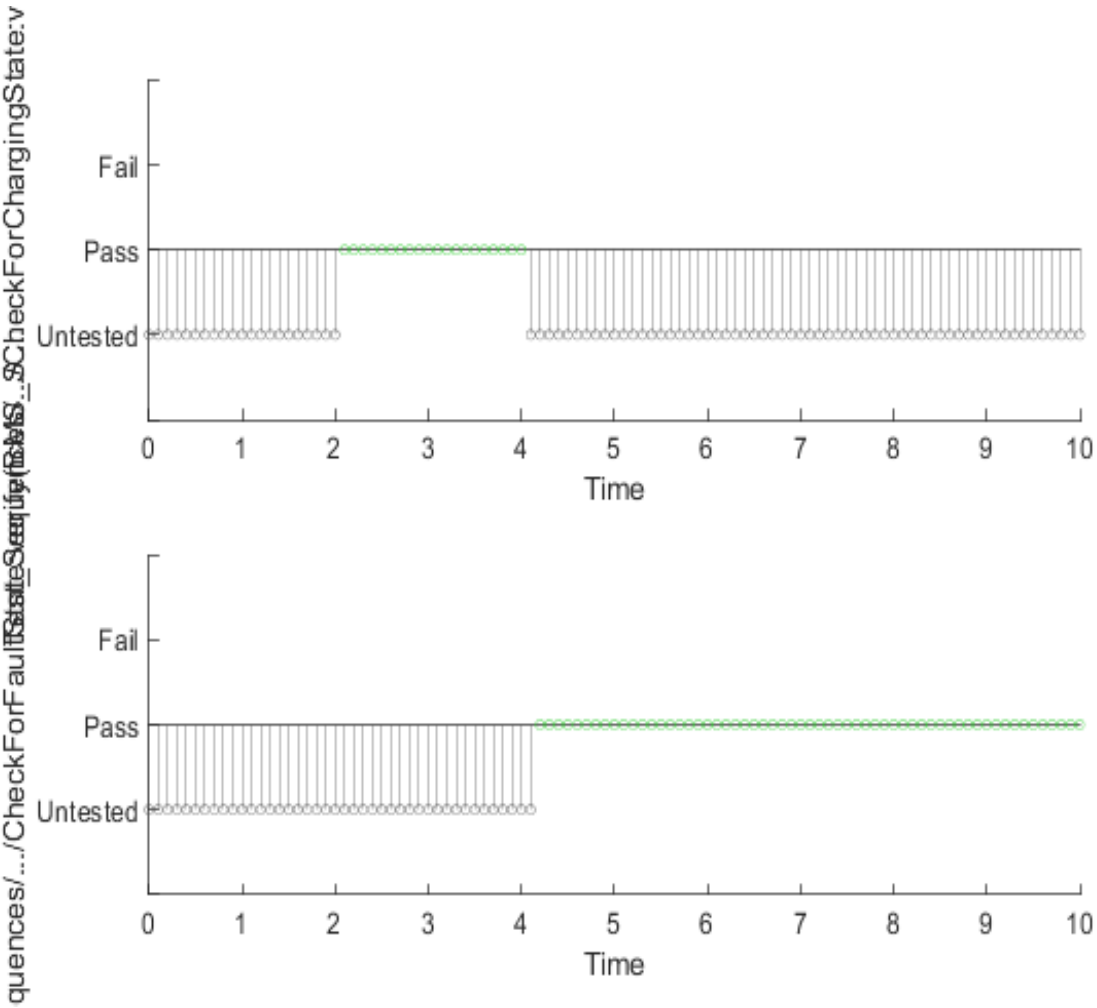
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)



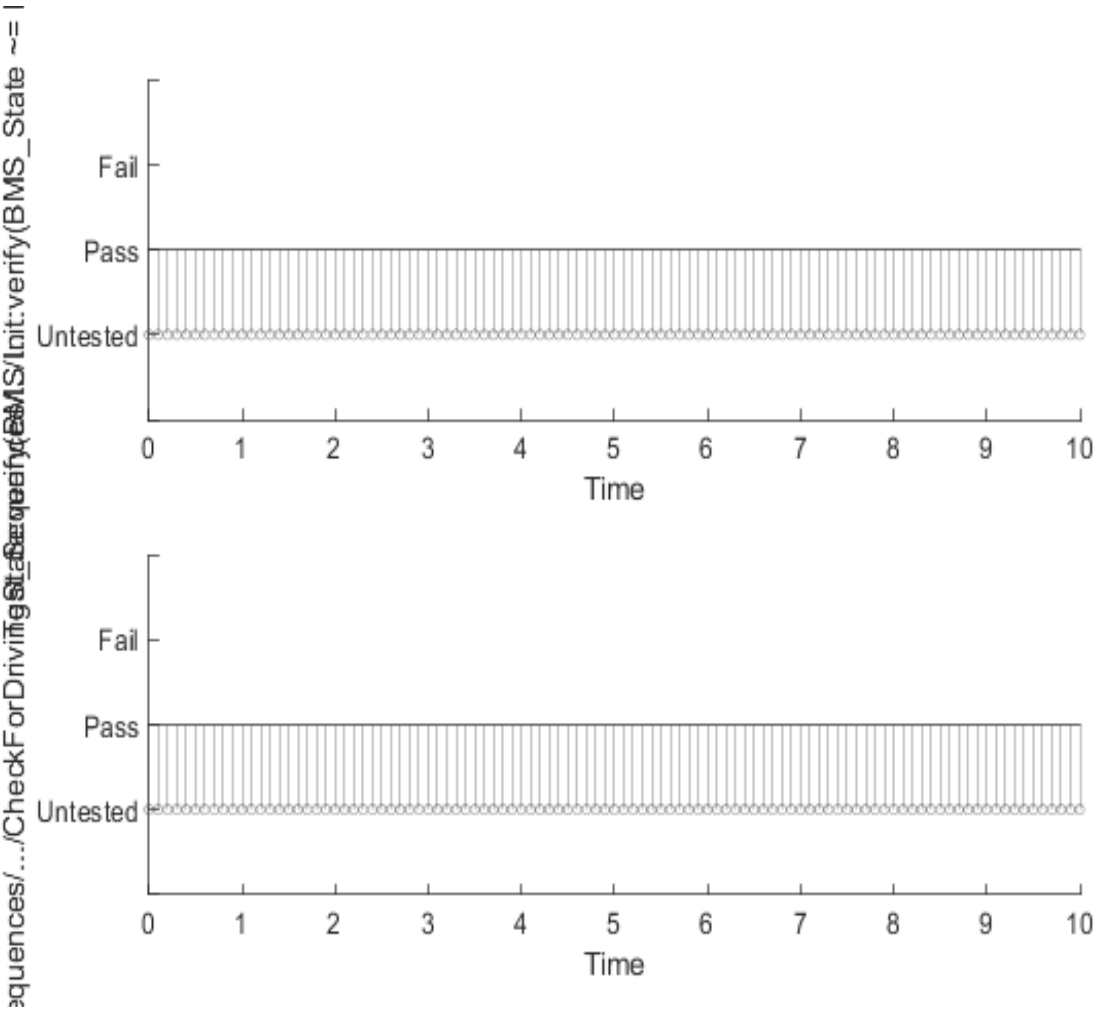
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



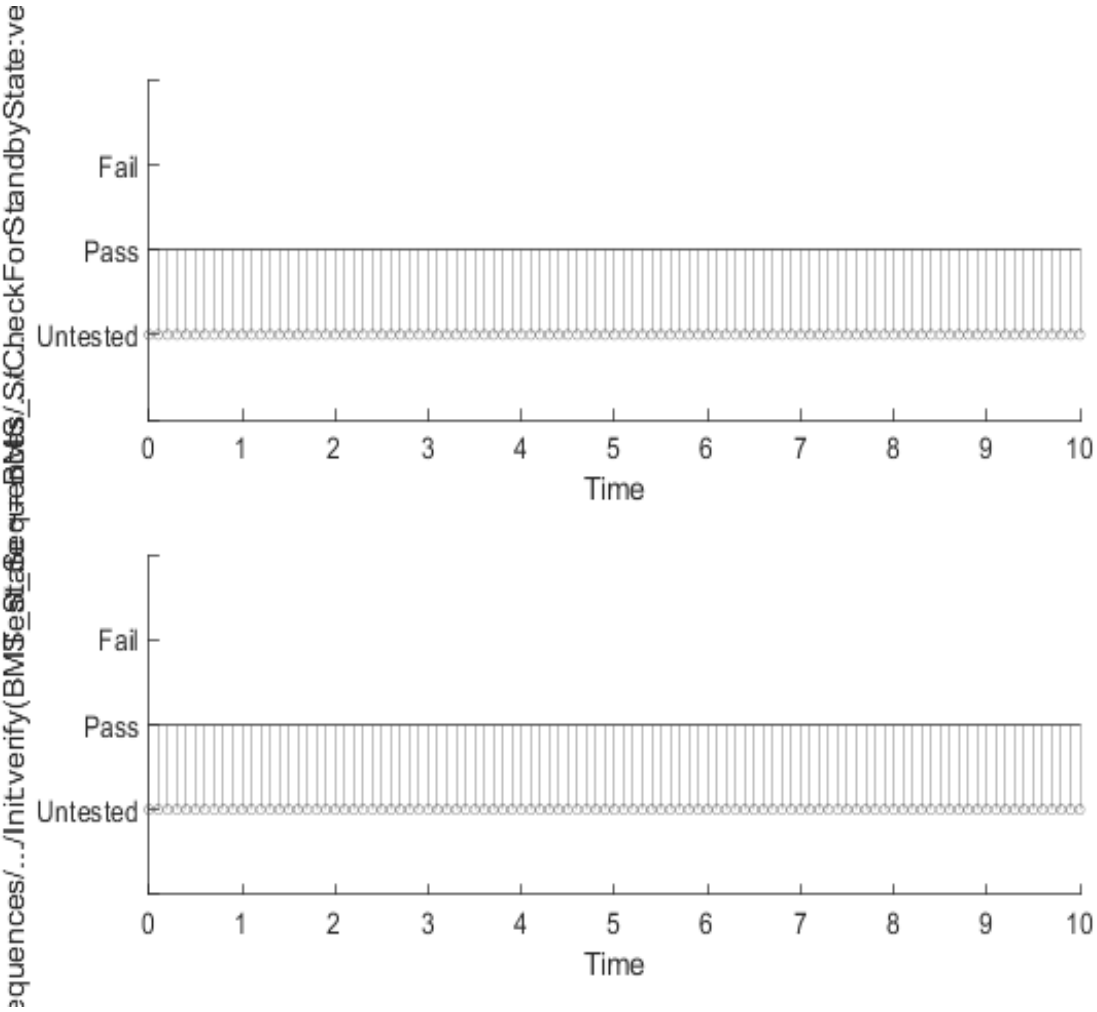
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)



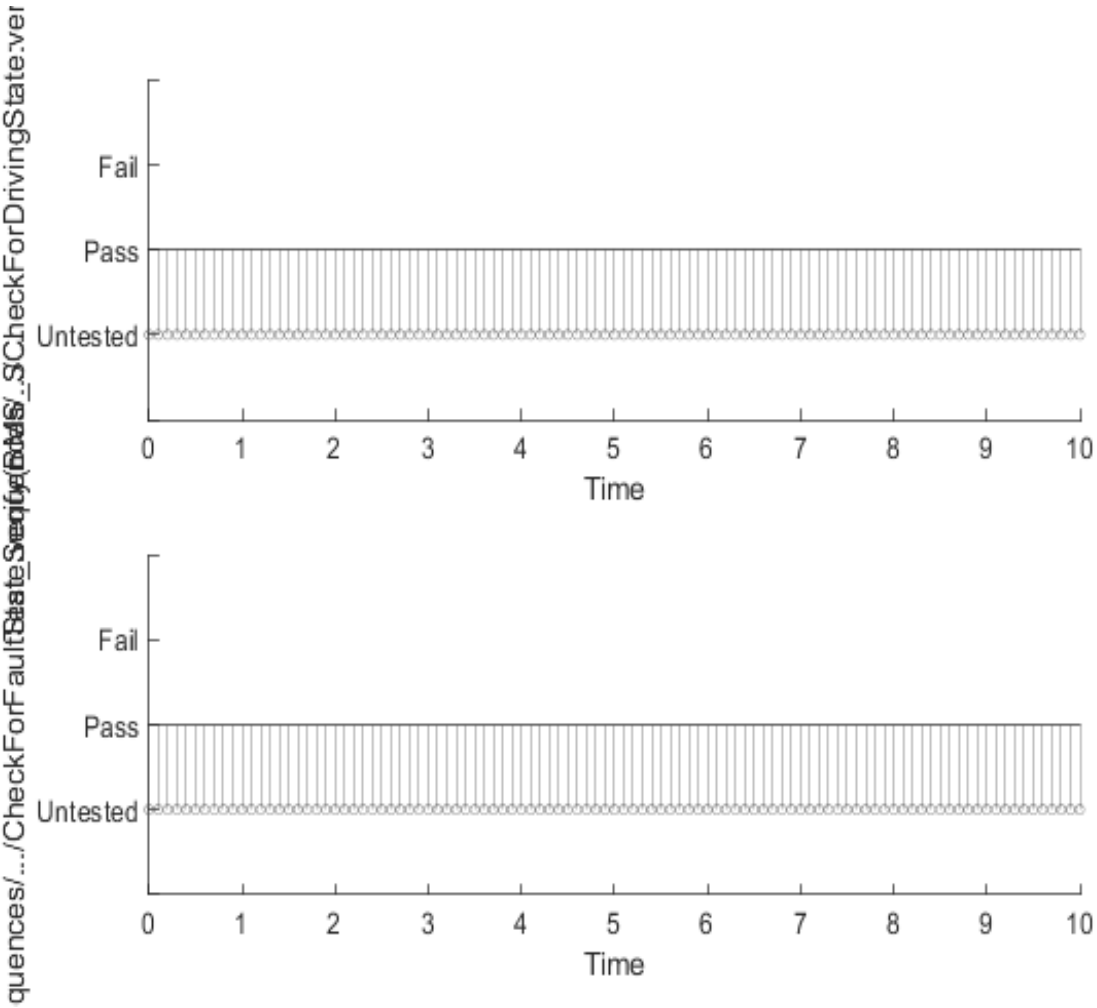
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



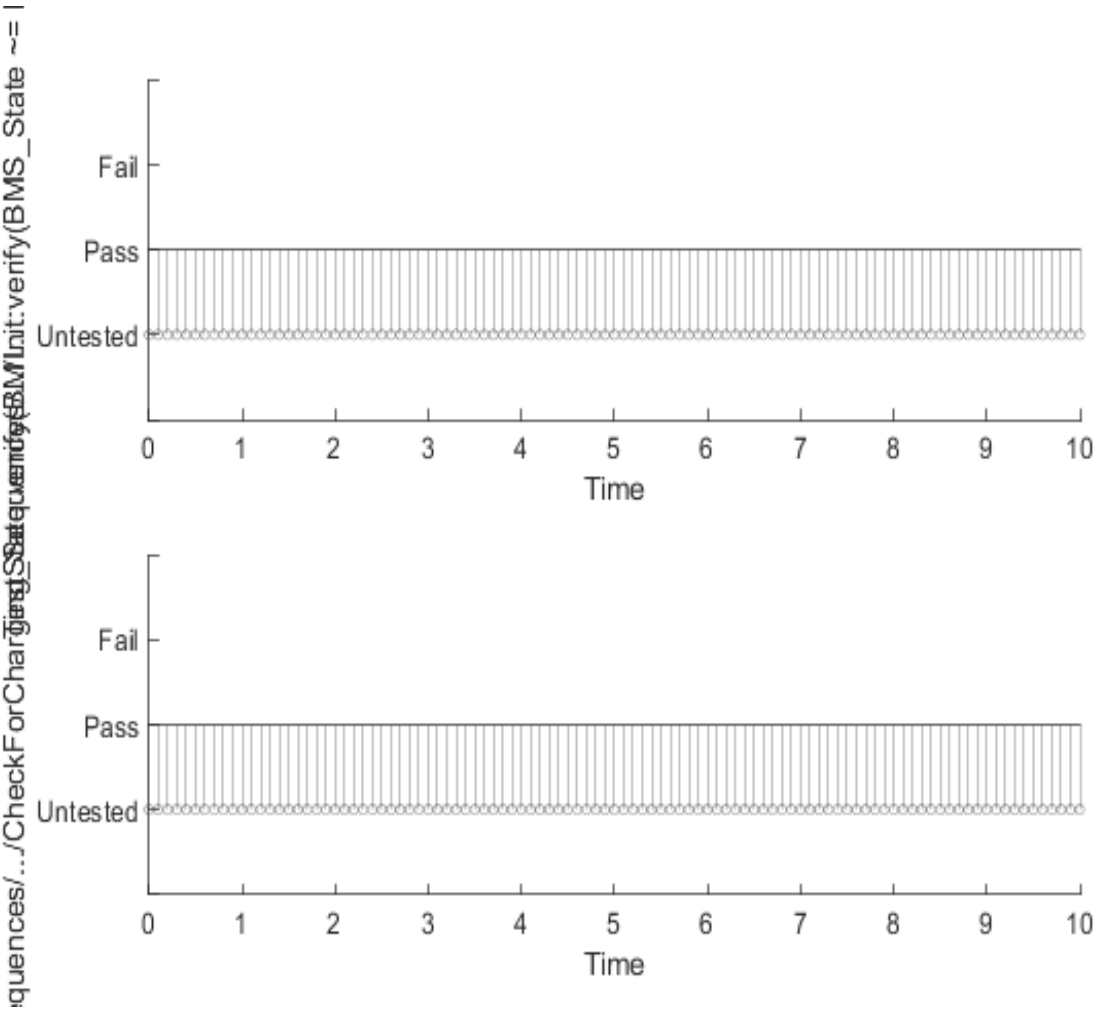
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



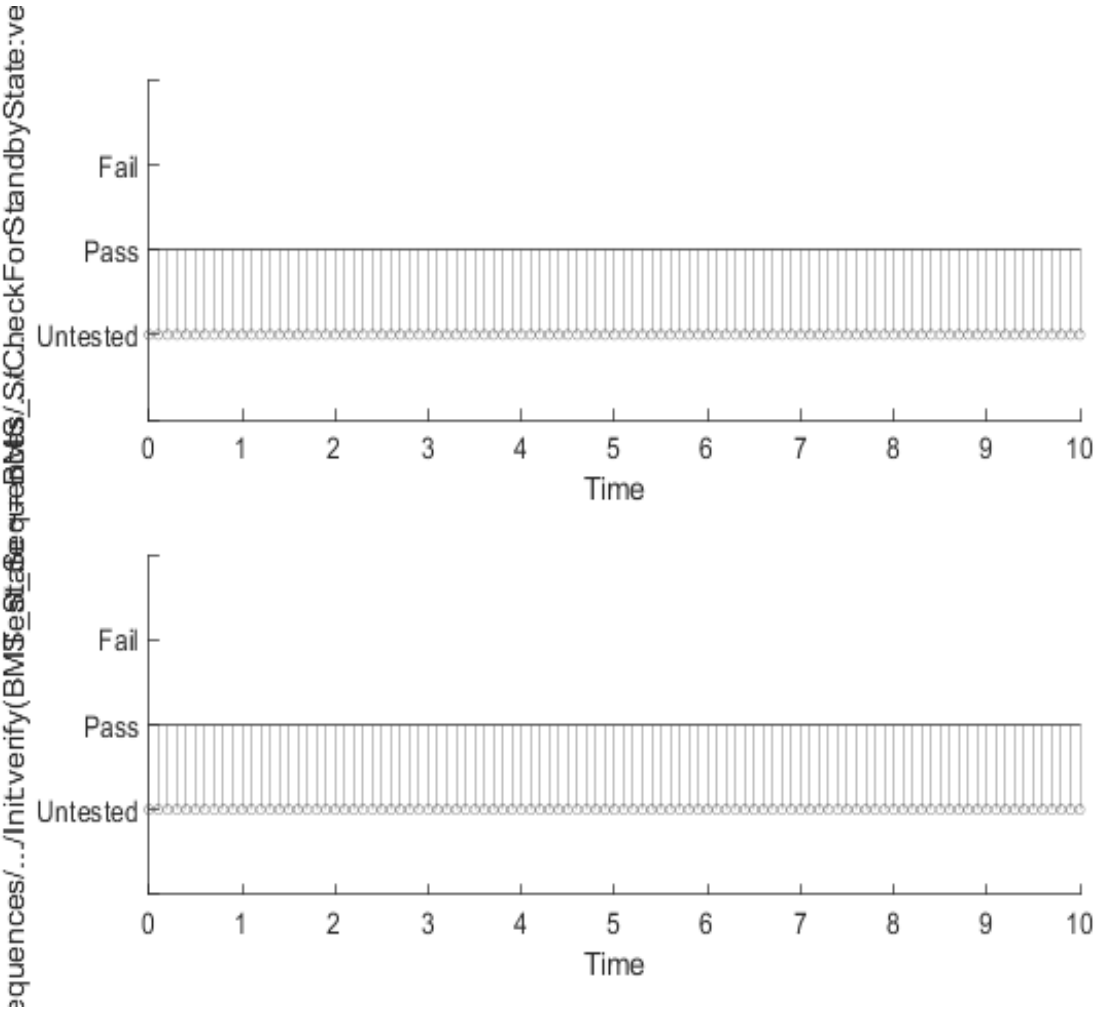
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



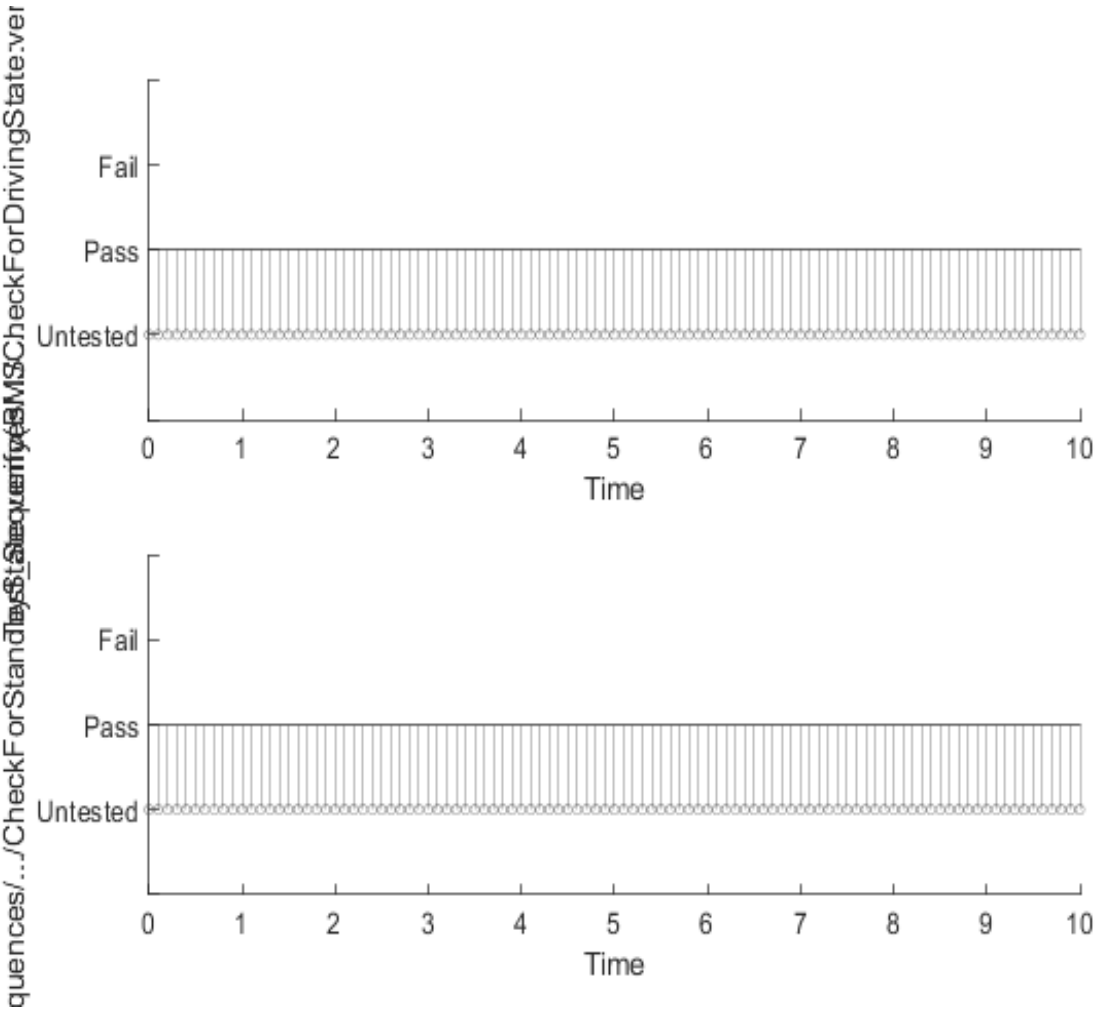
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)



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Simulation

System Under Test Information

Model:	State_Machine
Harness:	State_Machine_Harness2
Harness Owner:	State_Machine
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	BMS_Sw_CodeGenConfig1
Test Sequence Block:	State_Machine_Harness2/Test_Sequences
Test Sequence Scenario:	ChargingToFault
Start Time:	0
Stop Time:	10
Checksum:	1029195696 3900080333 984667206 1092934476
Simulink Version:	10.5
Model Version:	1.29
Model Author:	cpatel
Date:	Mon Jun 06 19:19:20 2022
User ID:	cpatel
Model Path:	C:\Users\cpatel\Documents\BatteryManagementSystem\Tests\StateMachine\State_Machine_Harness2.slx
Machine Name:	MATHWORKS-7ORRR
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.10000000000000001
Simulation Start Time:	2022-06-06 19:19:55
Simulation Stop Time:	2022-06-06 19:19:57
Platform:	PCWIN64

Driving

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:57
End Time:	06-Jun-2022 19:19:59
Outcome:	Passed

Test Case Information

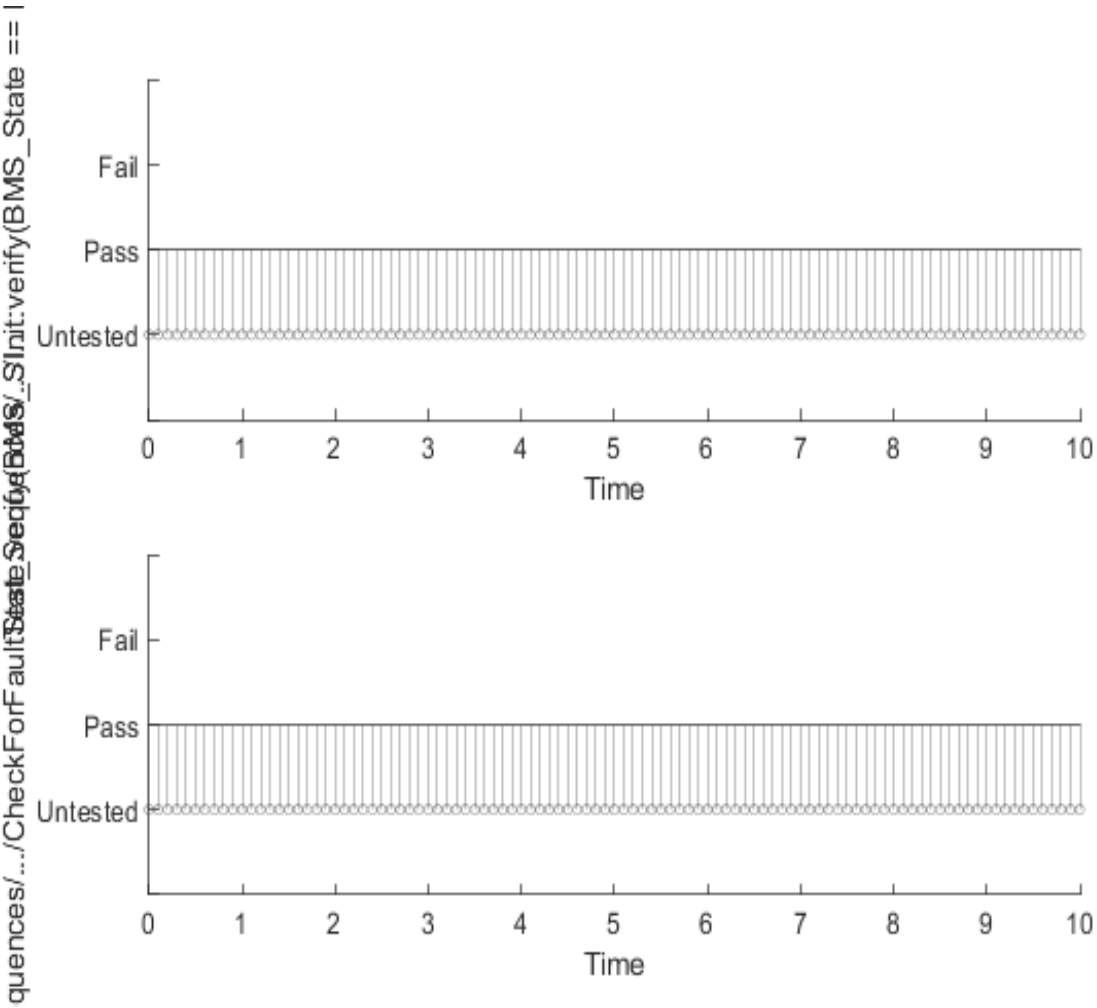
Name:	Driving

Type: Simulation Test

Verify Result

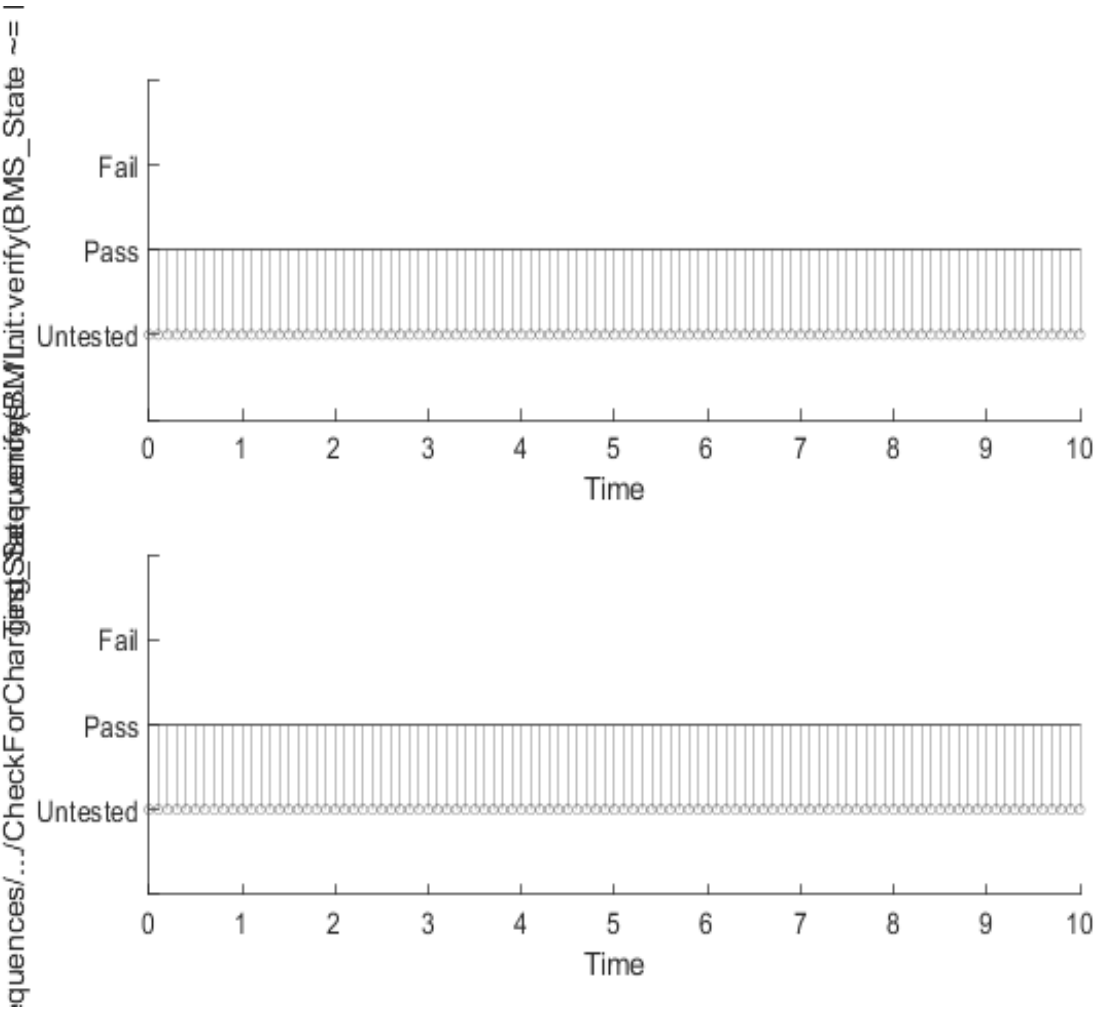
Name	Link to Plot
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link

Name
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



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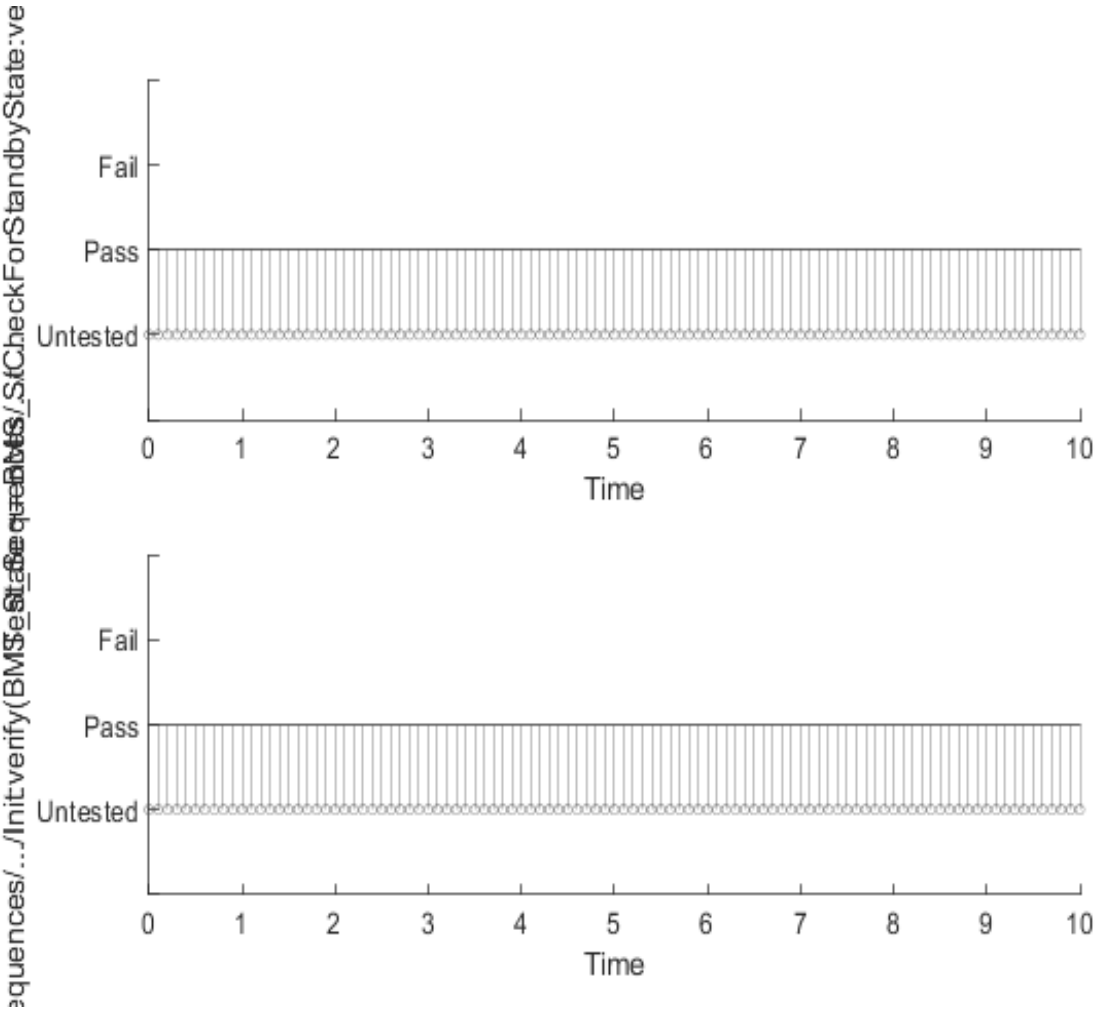
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)



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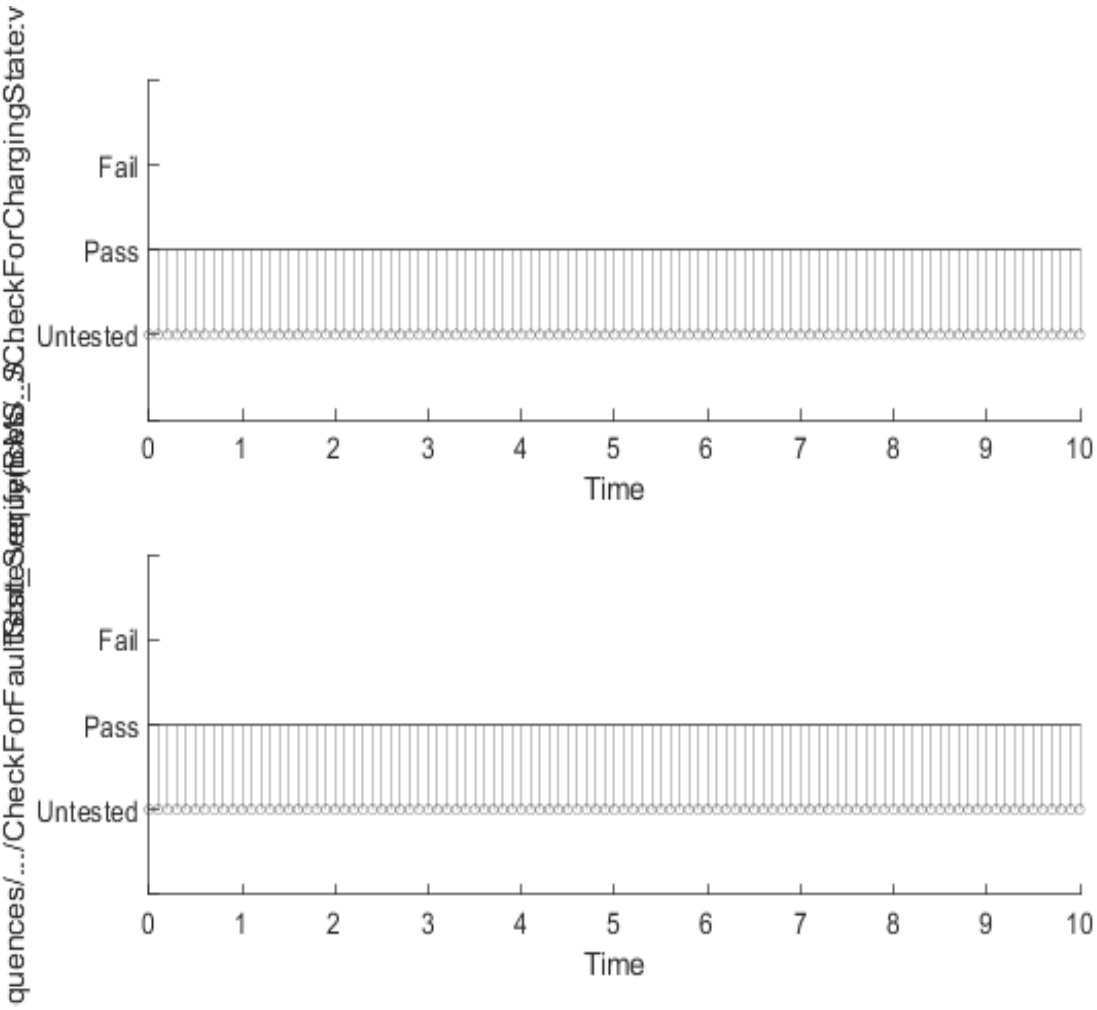
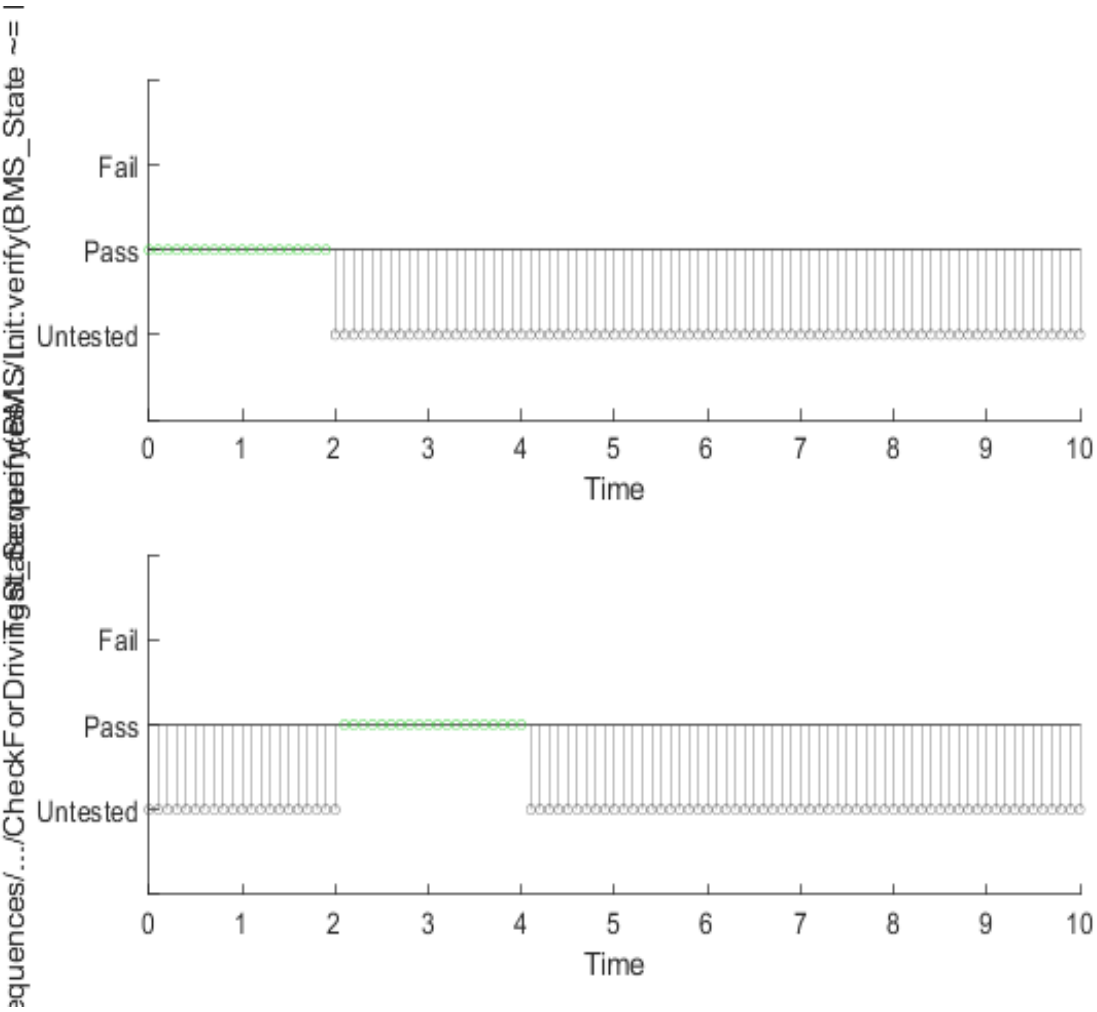
Name
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)



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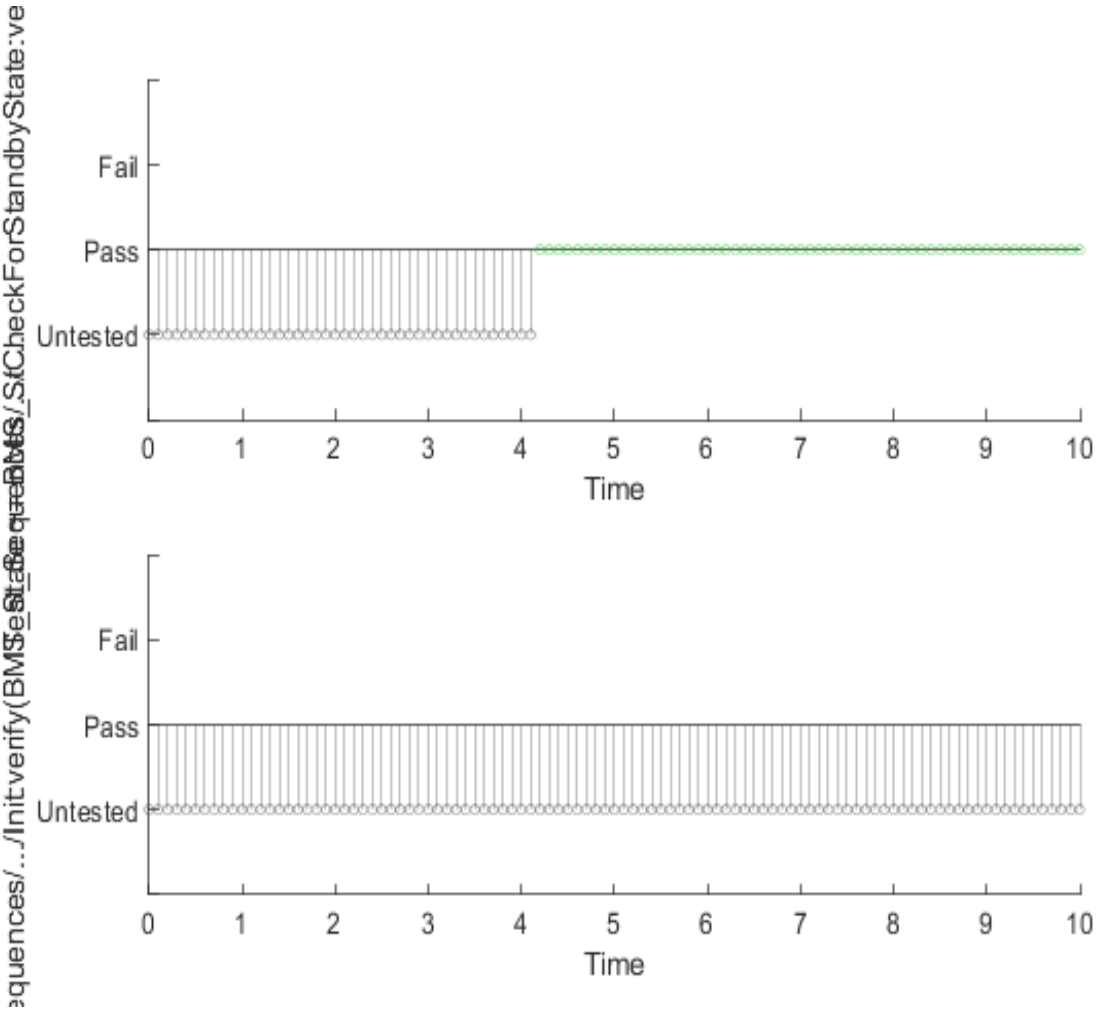
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



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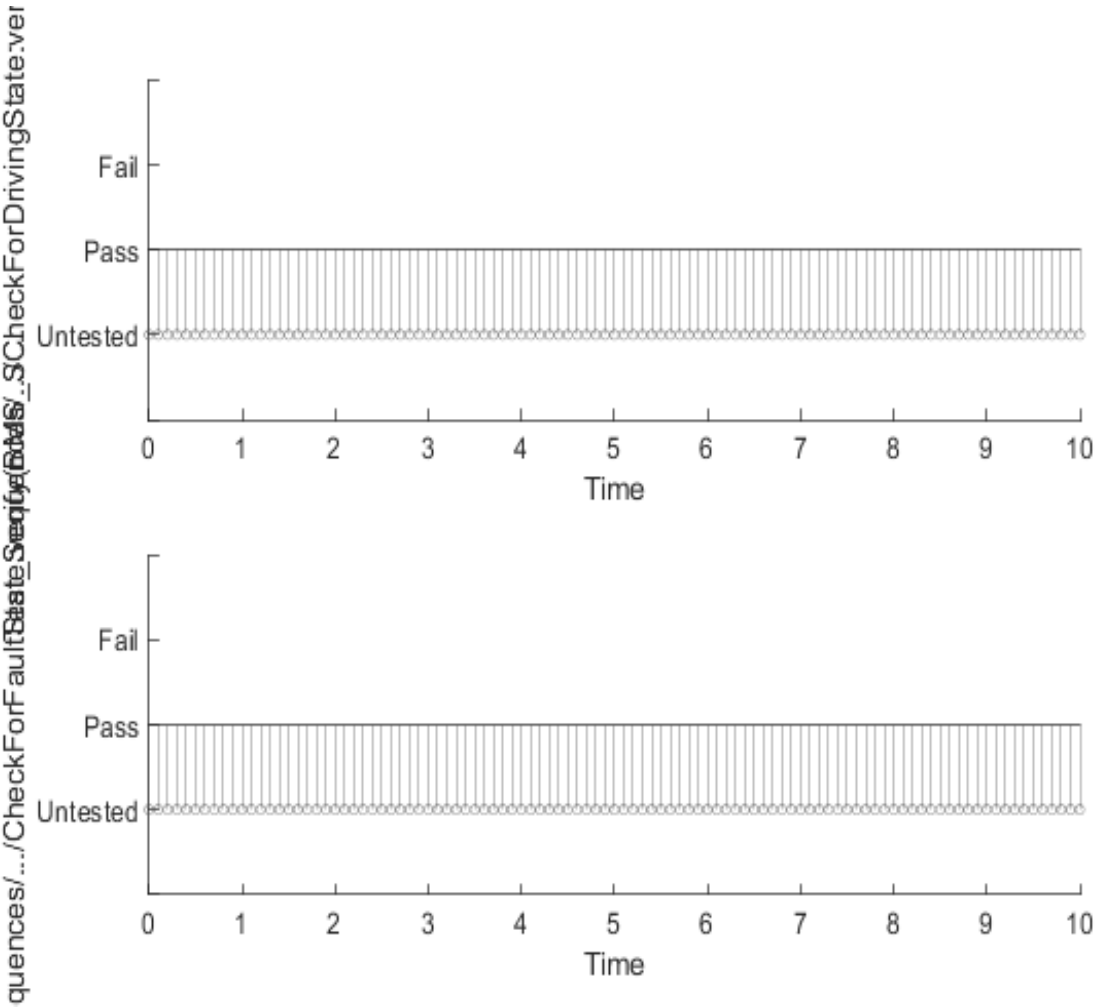
Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



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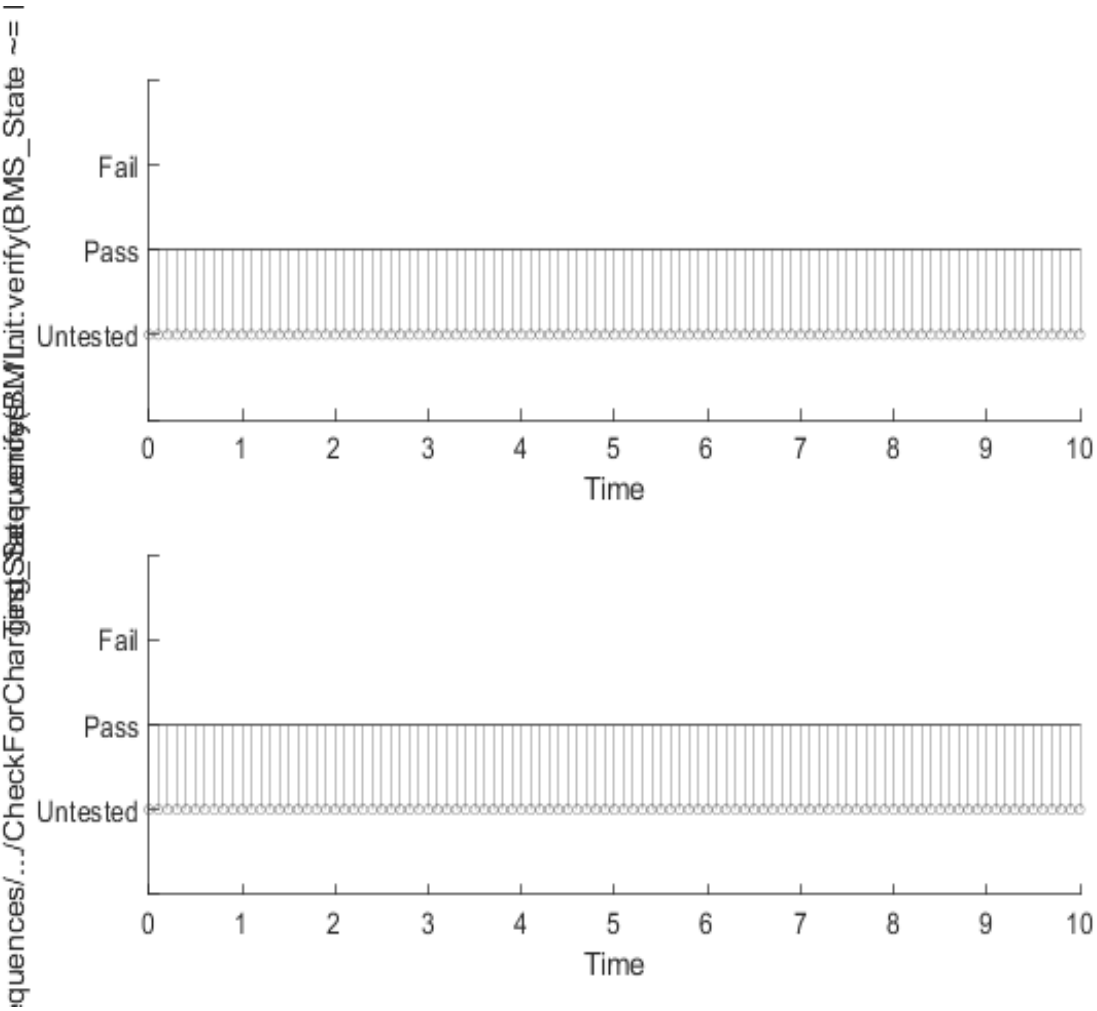
Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



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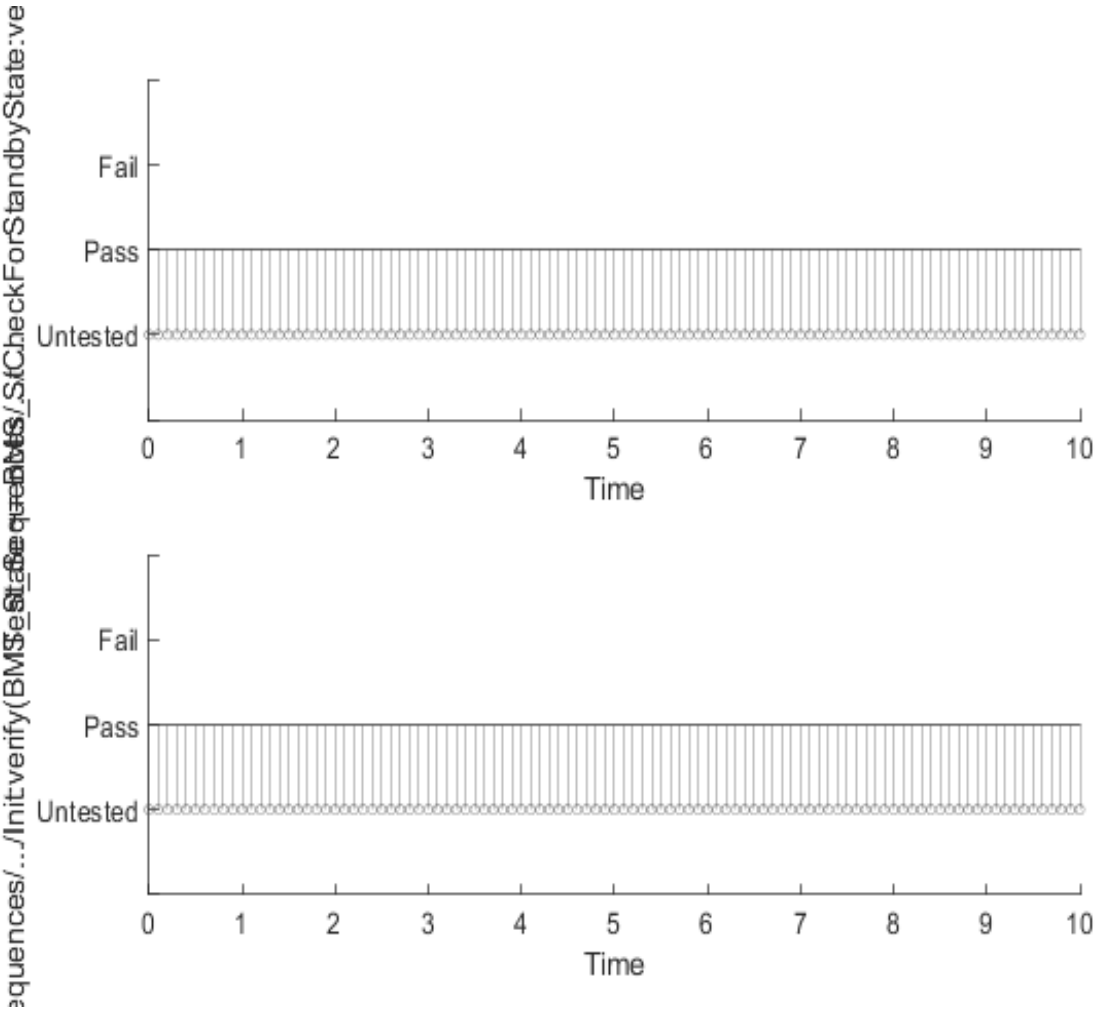
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



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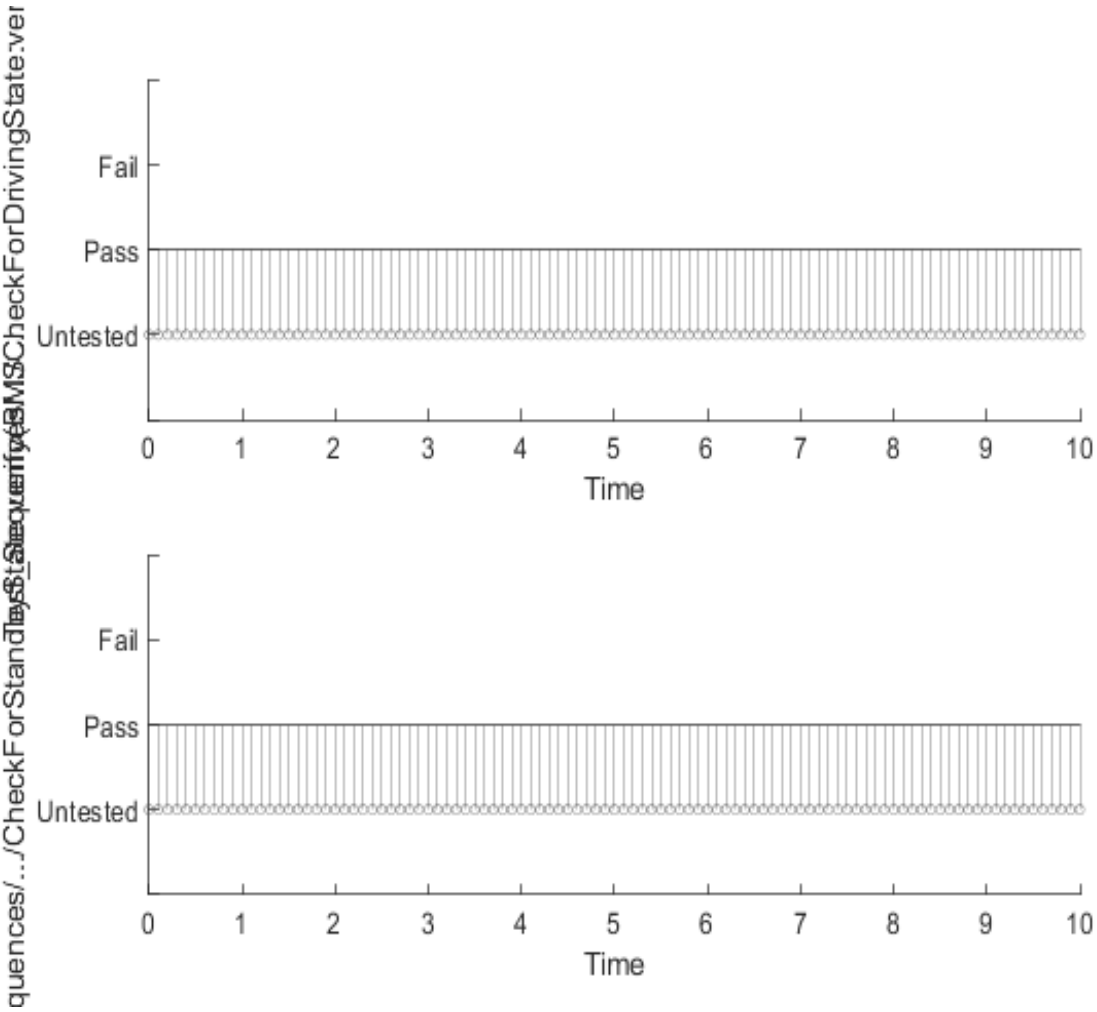
Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)



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Simulation

System Under Test Information

Model:	State_Machine
Harness:	State_Machine_Harness2
Harness Owner:	State_Machine
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	BMS_Sw_CodeGenConfig1
Test Sequence Block:	State_Machine_Harness2/Test_Sequences
Test Sequence Scenario:	Driving
Start Time:	0
Stop Time:	10
Checksum:	1029195696 3900080333 984667206 1092934476
Simulink Version:	10.5
Model Version:	1.29
Model Author:	cpatel
Date:	Mon Jun 06 19:19:20 2022
User ID:	cpatel
Model Path:	C:\Users\cpatel\Documents\BatteryManagementSystem\Tests\StateMachine\State_Machine_Harness2.slx
Machine Name:	MATHWORKS-7ORRR
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.10000000000000001
Simulation Start Time:	2022-06-06 19:19:57
Simulation Stop Time:	2022-06-06 19:19:58
Platform:	PCWIN64

DrivingToFault

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:59
End Time:	06-Jun-2022 19:20:00
Outcome:	Passed

Test Case Information

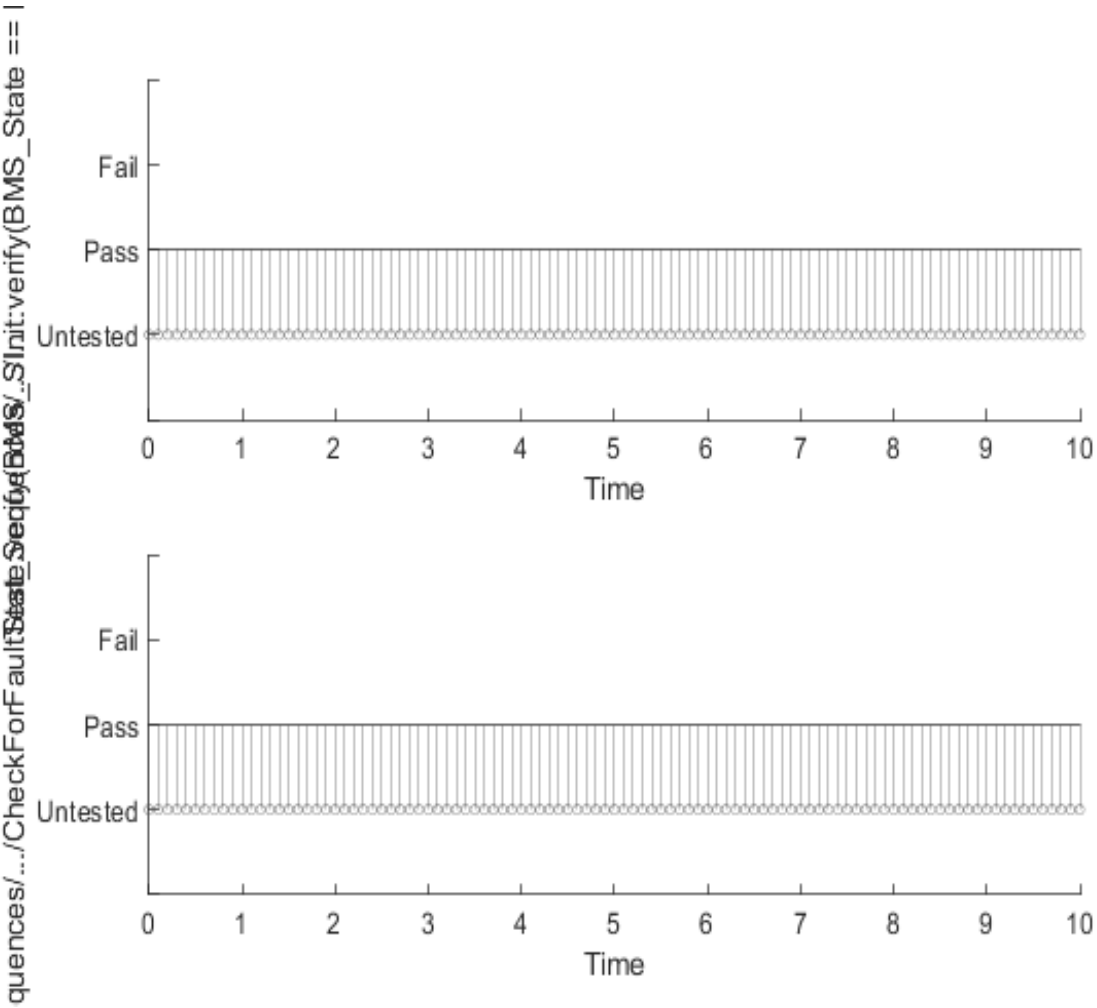
Name:	DrivingToFault

Type: Simulation Test

Verify Result

Name	Link to Plot
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)	Link
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)	Link

Name
Test_Sequences/.../Init:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



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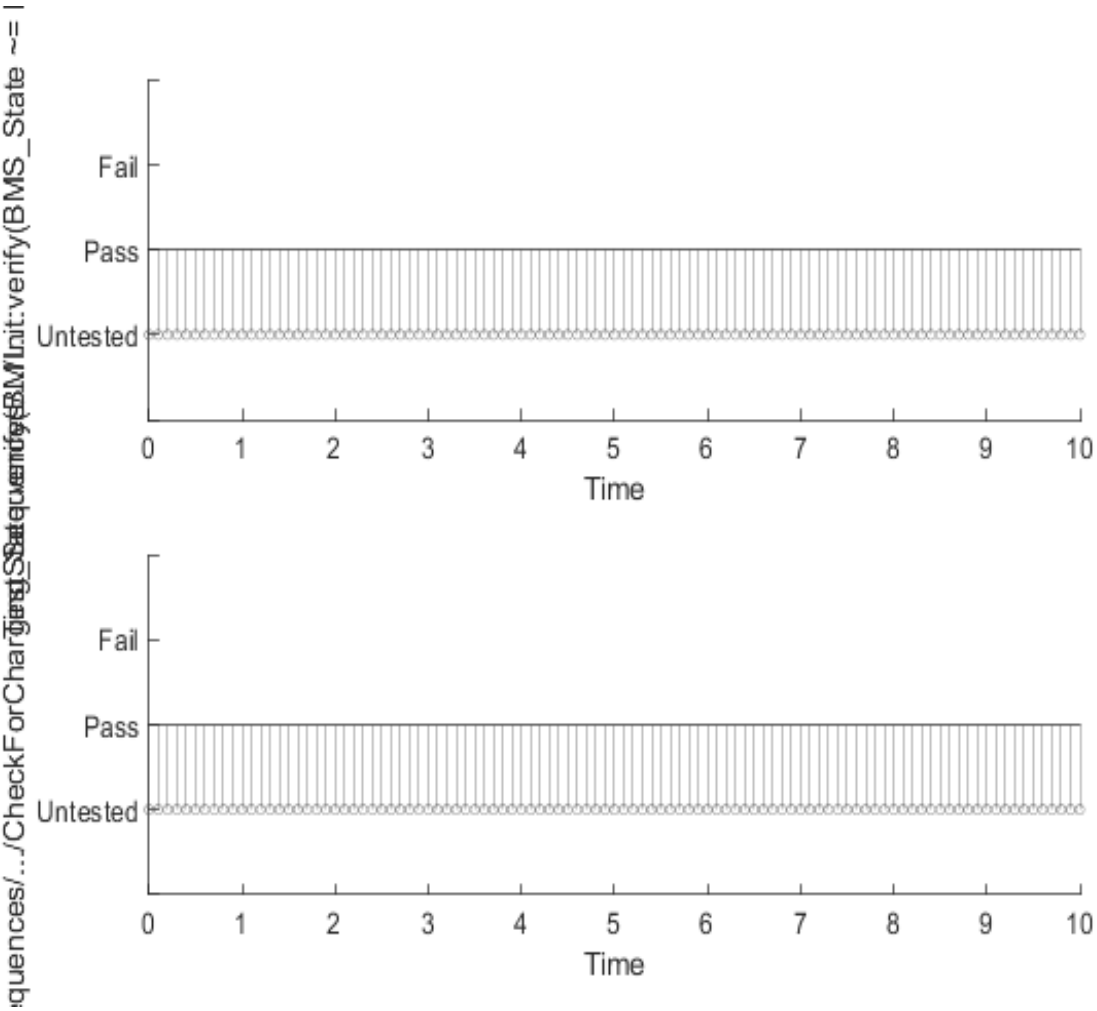
Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



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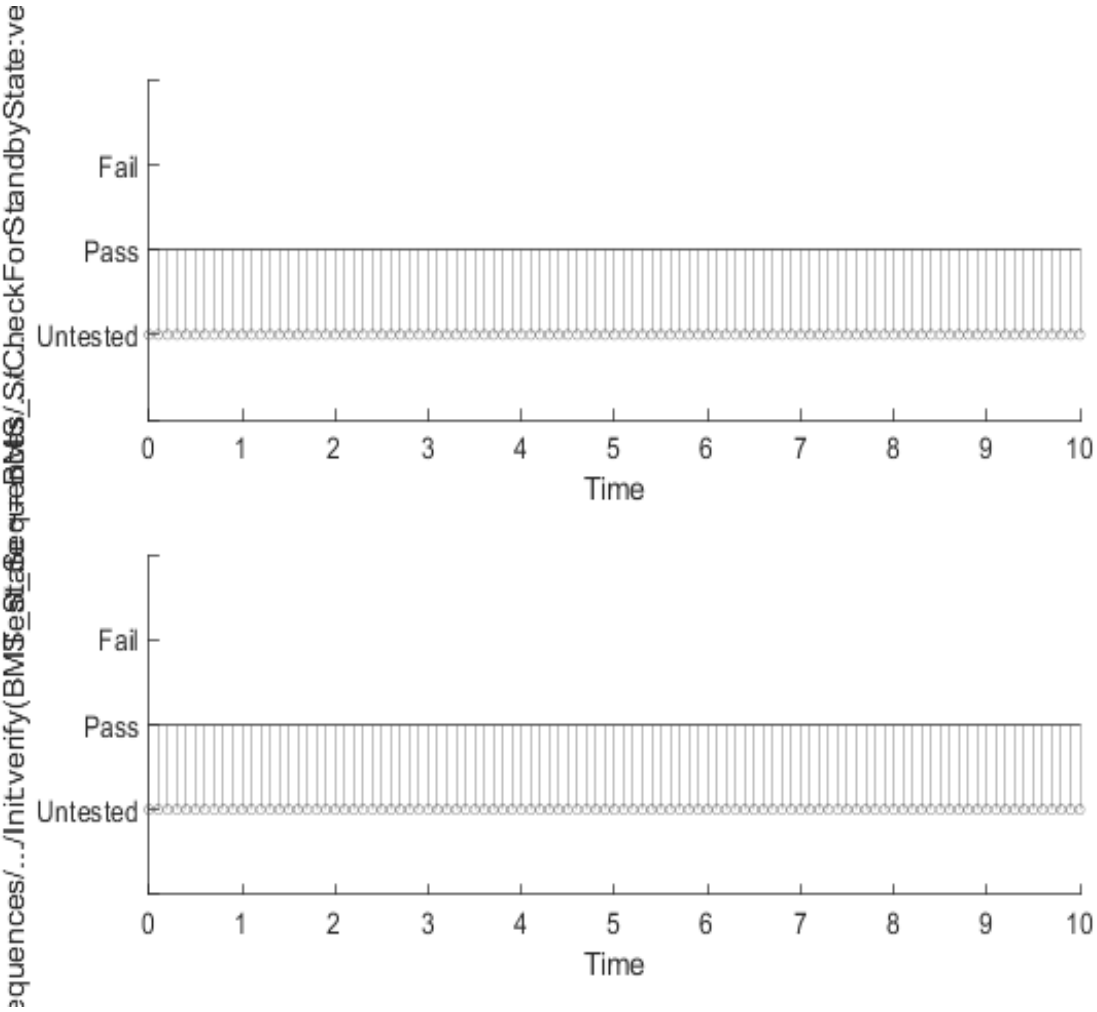
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)



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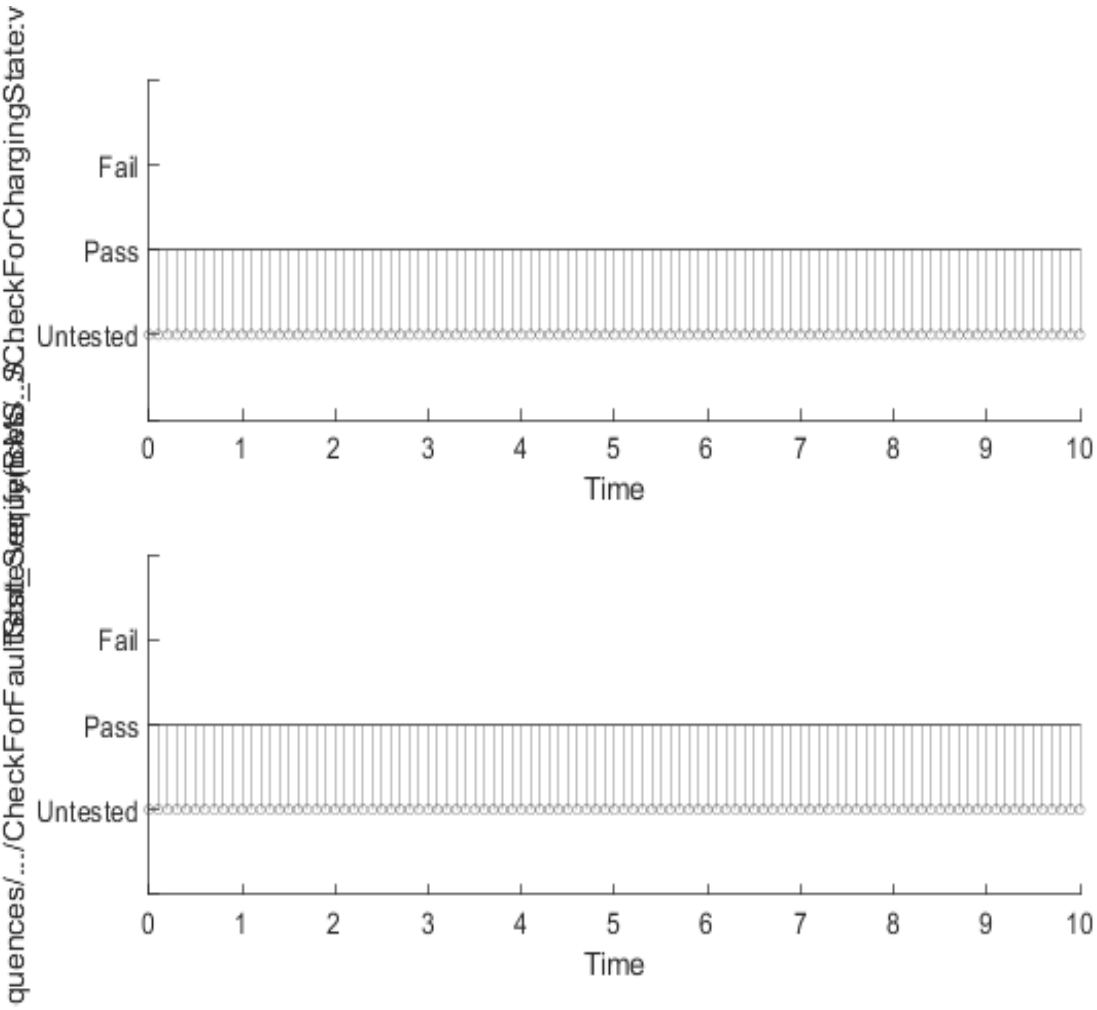
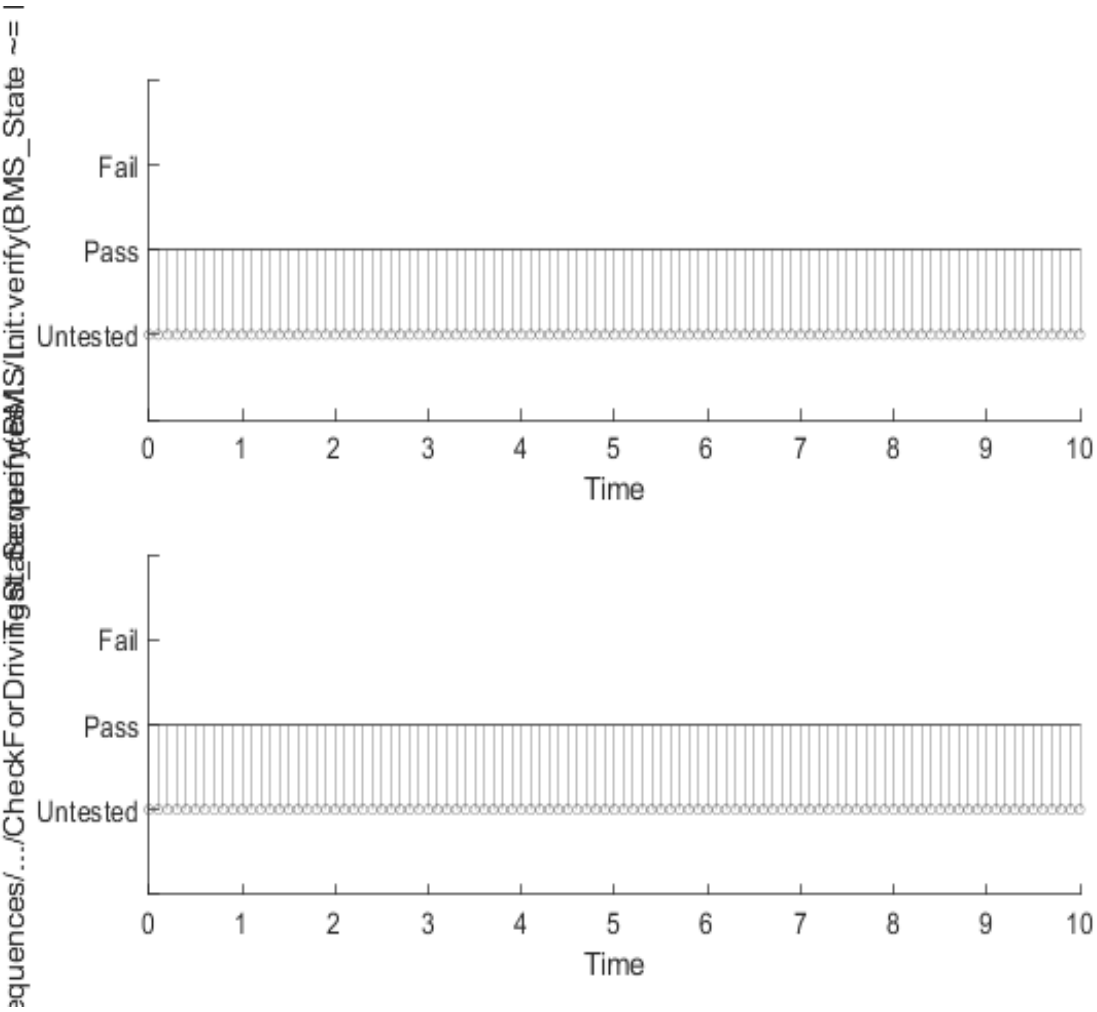
Name
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)



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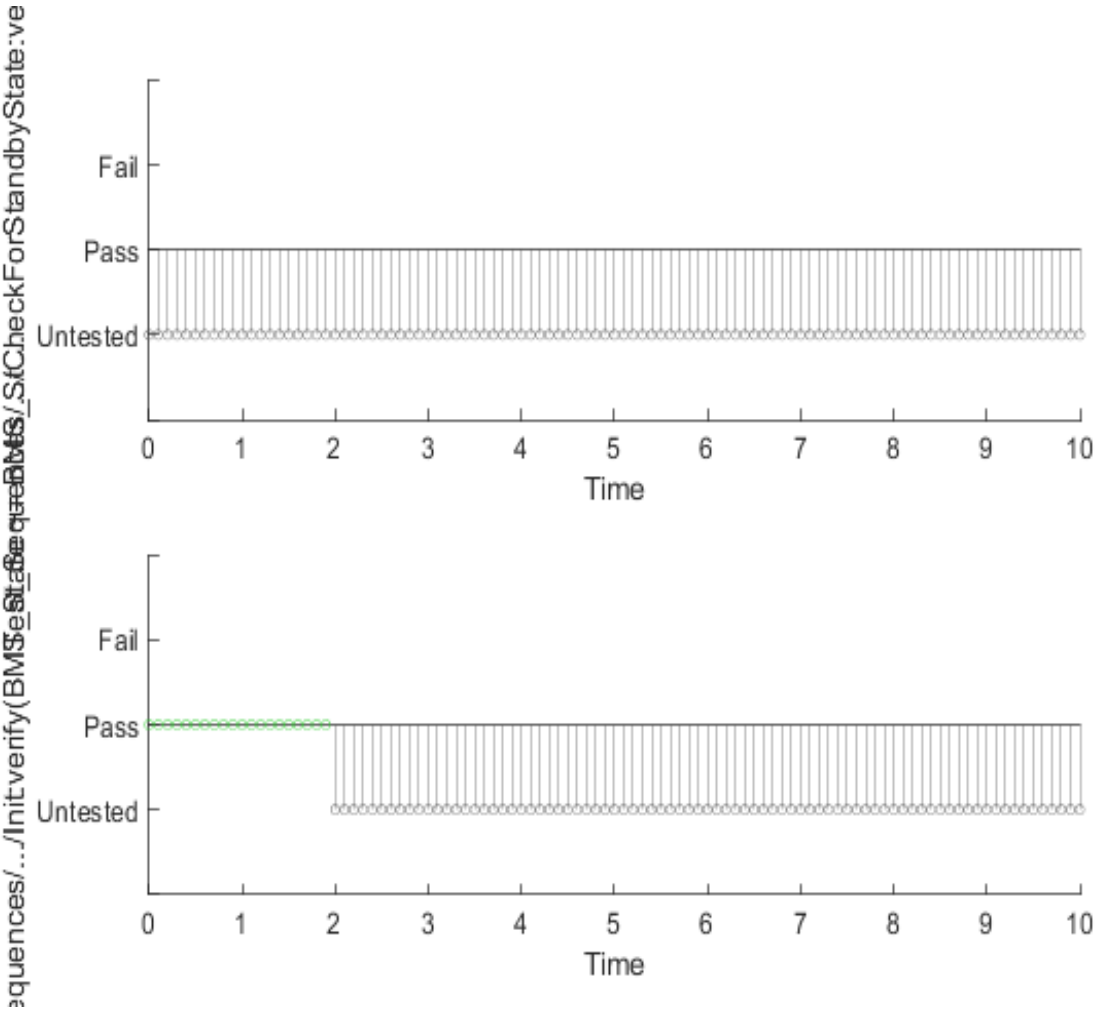
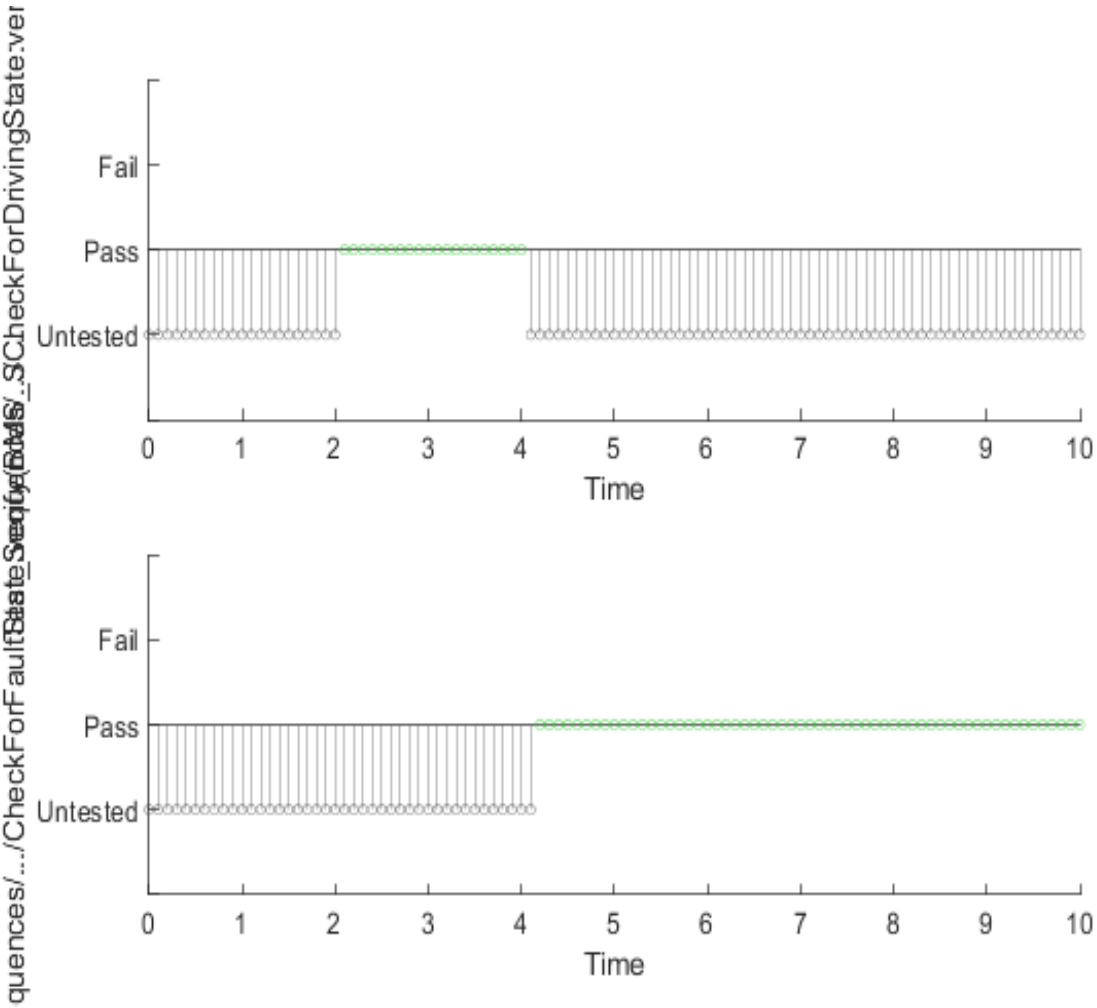
Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForFaultState:verify(BMS_State == BMS_State_Enum.BMS_Fault)



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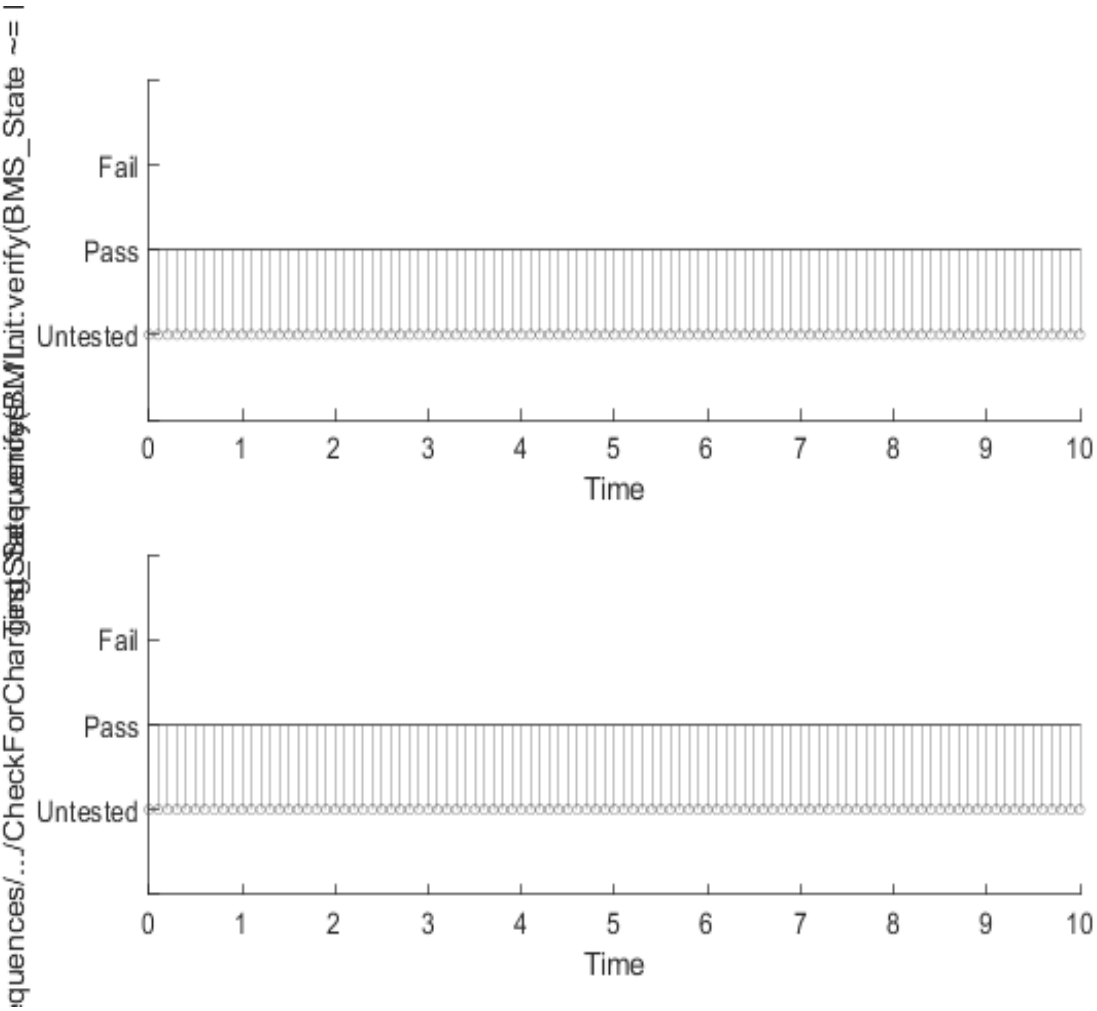
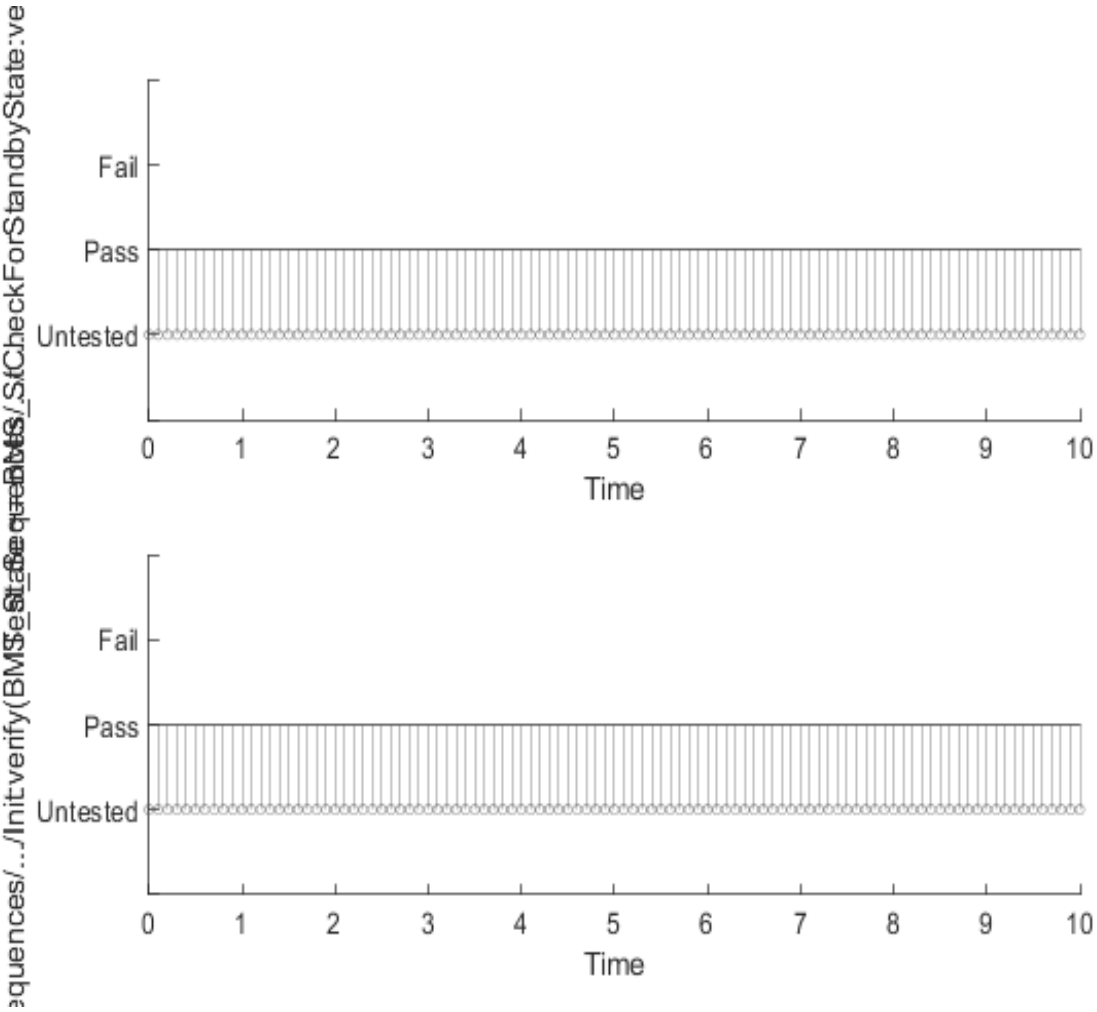
Name
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Charging)
Test_Sequences/.../CheckForChargingState:verify(BMS_State == BMS_State_Enum.BMS_Charging)



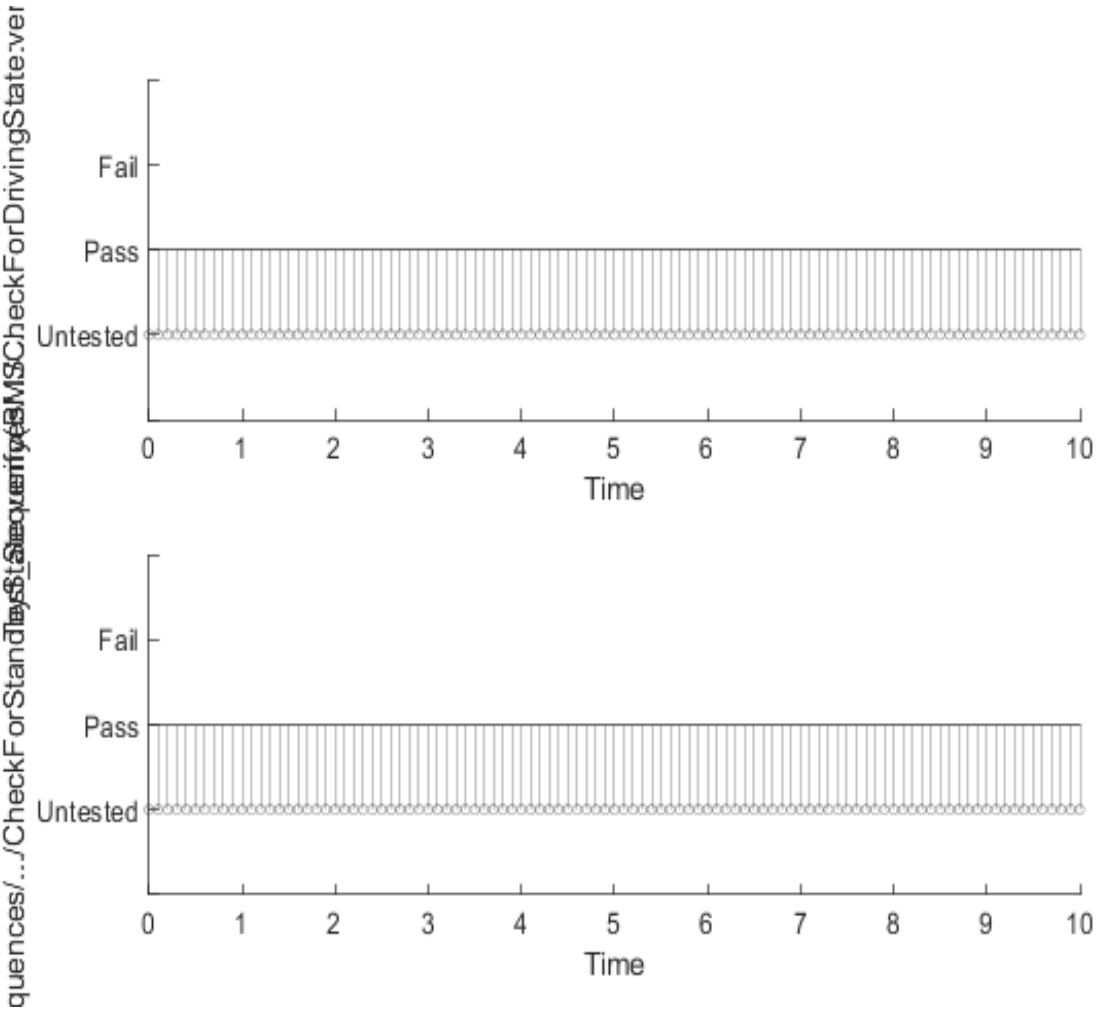
Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)
Test_Sequences/.../Init:verify(BMS_State ~= BMS_State_Enum.BMS_Driving)



Back to Report SummaryBack to Signal Summary

Name
Test_Sequences/.../CheckForDrivingState:verify(BMS_State == BMS_State_Enum.BMS_Driving)
Test_Sequences/.../CheckForStandbyState:verify(BMS_State == BMS_State_Enum.BMS_Standby)



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Simulation

System Under Test Information

Model:	State_Machine
Harness:	State_Machine_Harness2
Harness Owner:	State_Machine
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode:	0
Configuration Set:	BMS_Sw_CodeGenConfig1
Test Sequence Block:	State_Machine_Harness2/Test_Sequences
Test Sequence Scenario:	DrivingToFault
Start Time:	0
Stop Time:	10
Checksum:	1029195696 3900080333 984667206 1092934476
Simulink Version:	10.5
Model Version:	1.29
Model Author:	cpatel
Date:	Mon Jun 06 19:19:20 2022
User ID:	cpatel
Model Path:	C:\Users\cpatel\Documents\BatteryManagementSystem\Tests\StateMachine\State_Machine_Harness2.slx
Machine Name:	MATHWORKS-7ORRR
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.10000000000000001
Simulation Start Time:	2022-06-06 19:19:59
Simulation Stop Time:	2022-06-06 19:20:00
Platform:	PCWIN64

ChargingToStandby

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:49
End Time:	06-Jun-2022 19:19:49
Outcome:	Disabled

Test Case Information

Name:	ChargingToStandby

Type:	Simulation Test

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DrivingToStandby

Test Result Information

Result Type:	Test Case Result
Parent:	Harness2
Start Time:	06-Jun-2022 19:19:49
End Time:	06-Jun-2022 19:19:49
Outcome:	Disabled

Test Case Information

Name:	DrivingToStandby
Type:	Simulation Test

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