Report Generated by Test Manager

Title: MIL_Test

Author: Navnath Sabale

Date: 04-Aug-2022 14:40:33

Test Environment

Platform: PCWIN64 MATLAB: (R2021a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2022-Aug-04 14:39:16	Ø	6.722
Eas_Test	Ø	6.723
□ <u>MIL</u>	Ø	6.723
■ Functional Test	Ø	6.725

Results: 2022-Aug-04 14:39:16

Result Type: Result Set Parent: None

Start Time: 04-Aug-2022 14:39:23 End Time: 04-Aug-2022 14:39:30 Outcome: Total: 1, Passed: 1

Back to Report Summary

Eas_Test

Test Result Information

Result Type: Test File Result

Parent: Results: 2022-Aug-04 14:39:16

Start Time: 04-Aug-2022 14:39:23 End Time: 04-Aug-2022 14:39:30 Outcome: Total: 1, Passed: 1

Test Suite Information

Name: Eas_Test

Back to Report Summary

MIL

Test Result Information

Result Type: Test Suite Result

Parent: <u>Eas_Test</u>

Start Time: 04-Aug-2022 14:39:23 End Time: 04-Aug-2022 14:39:30 Outcome: Total: 1, Passed: 1

Test Suite Information

Name: MIL

Back to Report Summary

Functional_Test

Test Result Information

Result Type: Test Case Result

Parent: <u>MIL</u>

Start Time: 04-Aug-2022 14:39:23 End Time: 04-Aug-2022 14:39:30

Outcome: Passed

Test Case Information

Name: Functional_Test
Type: Baseline Test
Baseline Name: Eas_Test11

Baseline File: E:\Matlab\Project\Eas_24072022-20220726T17095

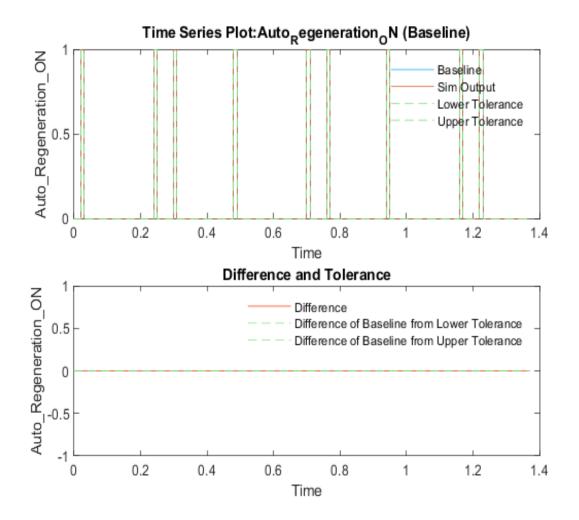
9Z-001\Eas_24072022\Eas_Functional_Test.xlsx

Baseline Comparison

Name	Abs Tol	Rel Tol	Lea d To l	Lag Tol	Max Diff	Data Type 1	Unit	le Ti	Data Type 2	Unit s 2	Sample Time 2	Interp	Sync	Link to Plo t
Auto_Reg eneration_ON	0	0	0	0	0	boolean	 		boolean	 	0.01	zoh	union	<u>Link</u>
Manual_Regeneration_Start		0	0	0	0	boolean	 		boolean	 	0.01	zoh	union	<u>Link</u>
Post_Injector2	0	0	0	0	0	boolean	+ · ·	+	boolean	+ 	0.01	zoh	union	<u>Link</u>
Post_Injector1	0	0	0	0	0	boolean	 		boolean	 	0.01	zoh	union	<u>Link</u>
Post_Injector4	0	0	0	0	0	boolean	 		boolean	 	0.01	zoh	union	<u>Link</u>
Post_Injec tor3	0	0	0	0	0	boolean	 	i i	boolean	i 	0.01	zoh	union	<u>Link</u>
Press_Reg eneration_Bu tton		0	0	0	0	boolean	 		boolean	 	0.01	zoh	union	<u>Link</u>

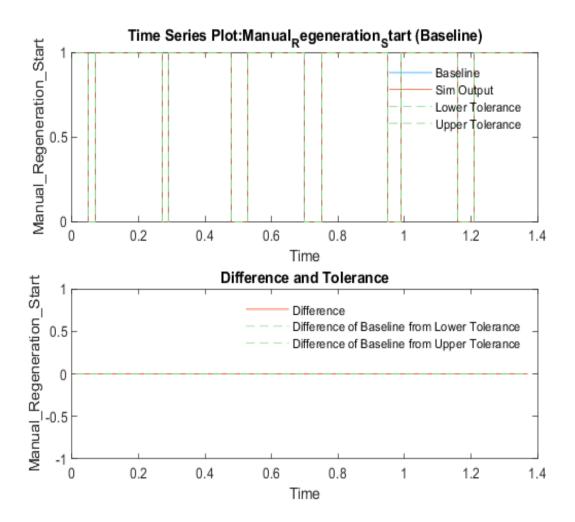
☑ Visit_Wor		 					i		i				
kshop_Imme	0	0	0	0	0	boolean		boolean	1	0.01	zoh	union	<u>Link</u>
diately		 	 	 	 -	! ++	ļ	 +			 -	ļ ļ	
Adblue_In	0	 0	0	0	 0		1	l l l double l		0.01	 70h	union	Link
jection_Time		i 	 	 	i 		. .	i i i	. – – i		 	++	
Adblue_le	0	 0	0	0	. 0	 	-	ı ıadblue_capacityı		0.01	 70h	ı ı ıunion	Link
vel_display					 		. .	++	. – – i	0.01	 	++	
Auto_Reg	0	 0	0	0	0		-	l l l l l l l l l l l l l l l l l l l		0.01	l I I zoh	union	Link
eneration_ON		 	U 	U 	U 	Doorean	. .	Doolean	·¦	0.01	ZUII 		
Press_Reg		l I			l	i I I	1	i i	İ	j	l I		
eneration_Bu	0	0	0	0	0	boolean	-	boolean		0.01	zoh	union	<u>Link</u>
tton						i ++	. .	i ++	. – – i			i ++	
Manual_R		l I			l	i i	1	i i	İ	į	l I		
egeneration_	0	0	0	0	0	boolean	-	boolean	ļ	0.01	zoh	union	<u>Link</u>
Start			 -	 -		i ++	. .	i +	i		i 	i i ++	
Post_Injec	0	l 0	0	0		ı ı ı boolean ı	!	l l l boolean l		0.01	l I I zoh	union	Link
tor2						Doorean	. .	Doolean	·¦	0.01	ZUII 		
Post_Injector1	0	l !	0	0		i i I boolean i	-	i i boolean i	į	0.01	l	union	Link
tor1		U 	U 	U 	U 	Doolean	. 	Doolean	‡	0.01	ZOII 		<u>LIIIK</u>
Post_Injector4	0	i !	0	0		boolean	!	i i I boolean i	į	0.01	l	union	Link
tor4		U 	U 	U 	U 	Doolean	. 	Doolean		0.01	2011 		<u>LIIIK</u>
Post_Injec	0	1	0	0		i boolean	1	l l	į	0.01	nob.	 	T imle
tor3		U 	U 	U 	U 	Doolean	. 	boolean	‡	0.01	ZOII 	union	<u>Link</u>
Visit_Wor		l I			i i	i i	į	i i I I	i		i I	i i	
kshop_Imme	0	0	0	0	0	boolean	1	boolean		0.01	zoh	union	<u>Link</u>
diately		 		 	 	¦ ++	. 	: ++	+		 	¦ ;	
Adblue_In	0	1			0		į		į	0.01		<u>i</u> j	T (1-
jection_Time	0	U 	0 	0 	U 	double	. 	double		0.01	zon 	union	<u>Link</u>
Adblue_le	0					dhluo ooit	į		i	0.04		i i	T in 1-
vel_display	U	ı U	U	U	U	adblue_capacity	!	adblue_capacity	 	0.01	zon 	iunioni	<u>Link</u>

Name	Abs T	Rel To	Lead T	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Sample Tim e 2	Interp	Sync
Auto_Reg eneration_ON	i 0	0	0	0	0	boolean	 		boolean	0.01	zoh	union



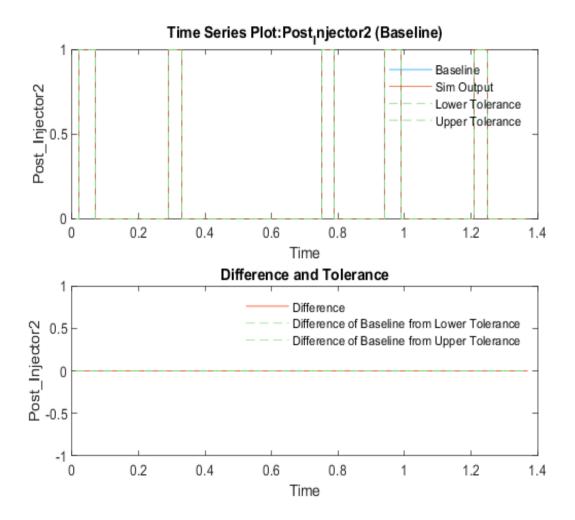
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Manual_R	i I	i	i i	i I	I I	i I		İ					
egeneration_	0	0	0	0	0	boolean	l I	 	boolean		0.01	ı zoh i	union
Start	 	 	 	 	 			 				, ,	



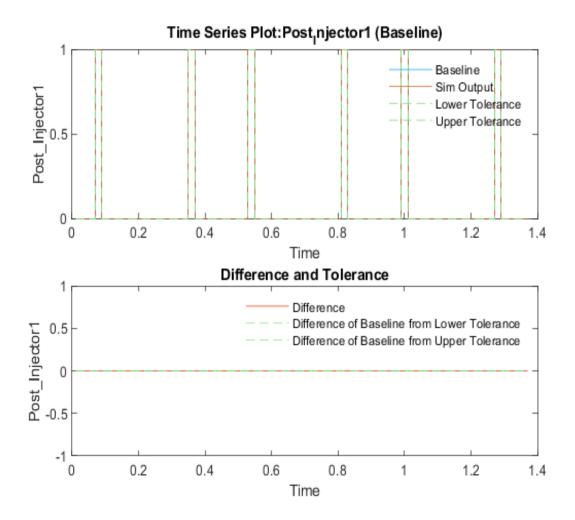
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To	Lead T	Lag T	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp S	Sync
Post_Injec tor2	0	0	0	0	0	boolean	i I I		boolean		0.01	zoh lu	ınion



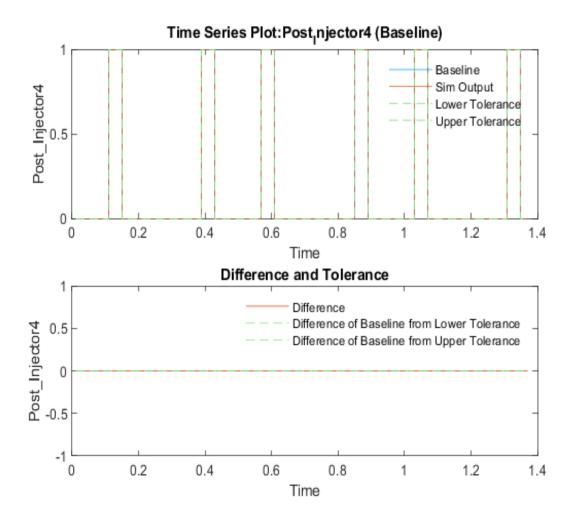
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Post_Injec tor1	0	0	0	0	0	boolean	i i i		boolean		0.01	zoh union



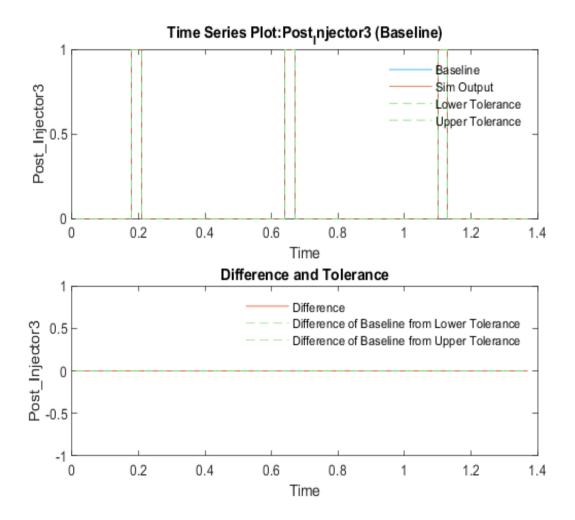
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To	Lead T	Lag T	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Post_Injec tor4	0	0	0	0	0	boolean	i I I		boolean		0.01	zoh iu	ınion



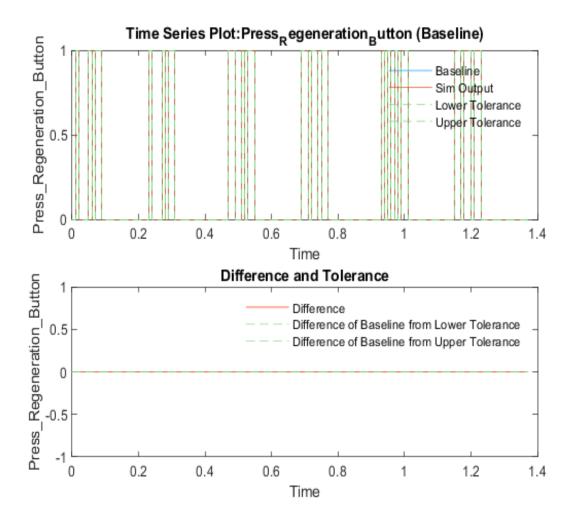
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To	Lead T	Lag T	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Post_Injector3	0	0	0	0	0	boolean	i I I		boolean		0.01	zoh lu	union



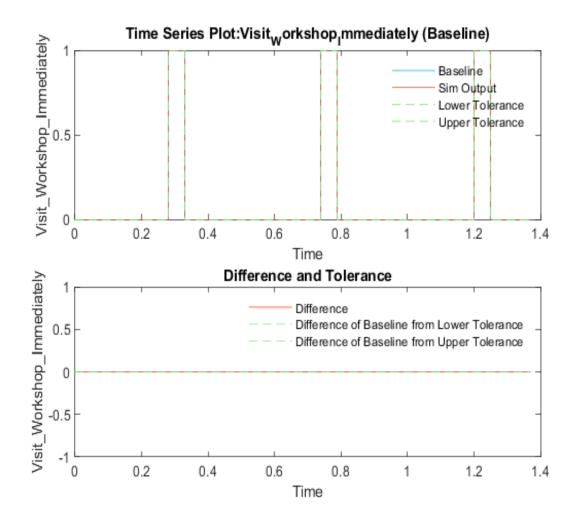
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Press_Reg		i i			l I	i I	i I				i i
eneration_Bu	0	0	0	0	0	boolean	 	boolean		0.01	zoh union
tton					! !						



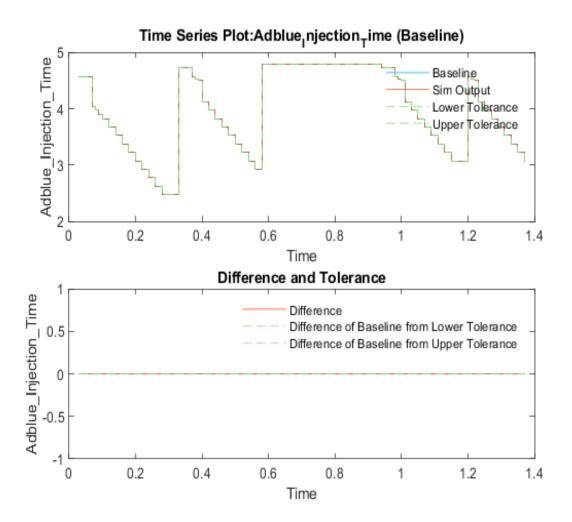
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Visit_Wor		i I		l I	i I	i I		i i				l İ
kshop_Imme	0	0	0	0	0	boolean	 		boolean		0.01	zoh union
diately		į		i	į							į



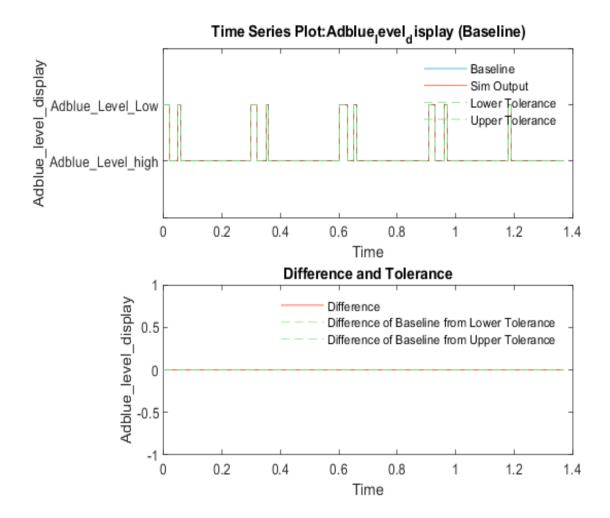
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Adblue_In jection_Time	0	0	0	0	0	double	 		double		0.01	zoh union



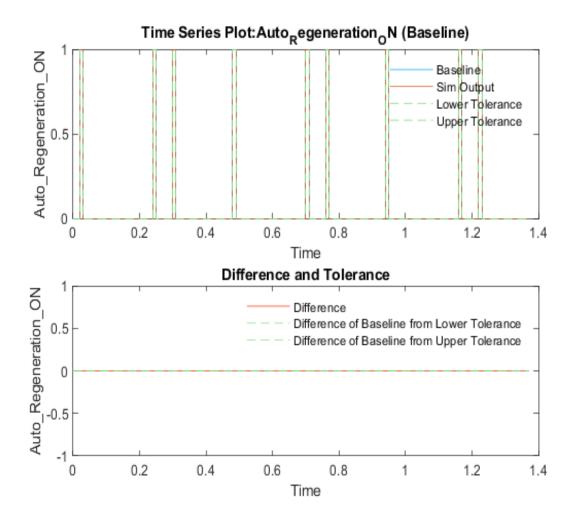
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel T	Lead Tol	Lag T ol	Max D iff	Data Type 1	Units 1	Sample T	Data Type 2	Units 2	Sample Ti me 2	Interp Sync
Adblue_le	0	0	0	0	0	adblue_capacity	 	 	adblue_capacity	 	0.01	zoh union



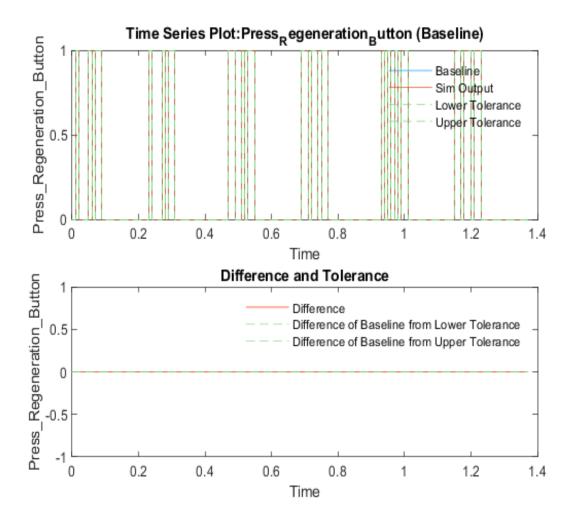
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Auto_Reg eneration_ON	0	0	0	0	0	boolean	 	 	boolean		0.01	zoh n	union



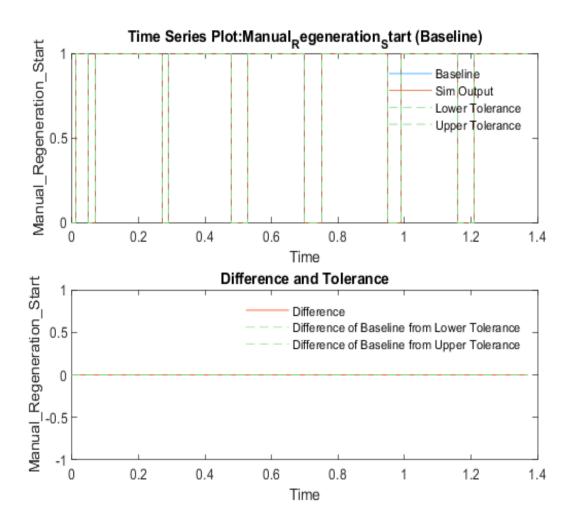
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Sample Ti me 1	Data Type 2	Sample Tim e 2	Interp Sync	2
Press_Reg			i i	i I	i i	i i	i i			i i	
eneration_Bu	0	0	0	0	0	boolean	 	boolean	0.01	zoh unior	n
tton			į	į	į					i i	



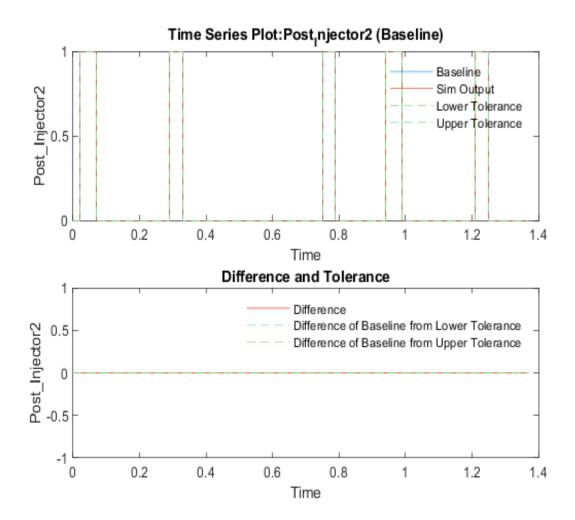
Back to Report SummaryBack to Criteria Results

	Name	Abs T ol	Rel To	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Sample Ti me 1	Data Type 2	Sample Tim e 2	Interp Sync
ĺ	Manual_R				i i		i	i			i i
	egeneration_	0	0	0	0	0	boolean	 	boolean	0.01	zoh union
	Start		į		į						



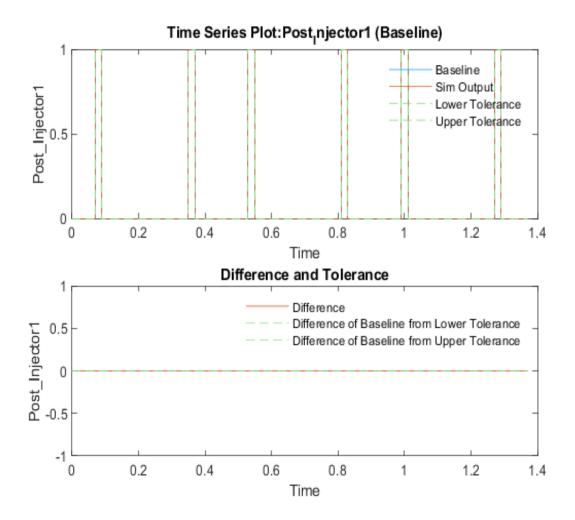
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Post_Injec tor2	0	0	0	0	0	boolean	i i i	i i i	boolean		0.01	zoh	union



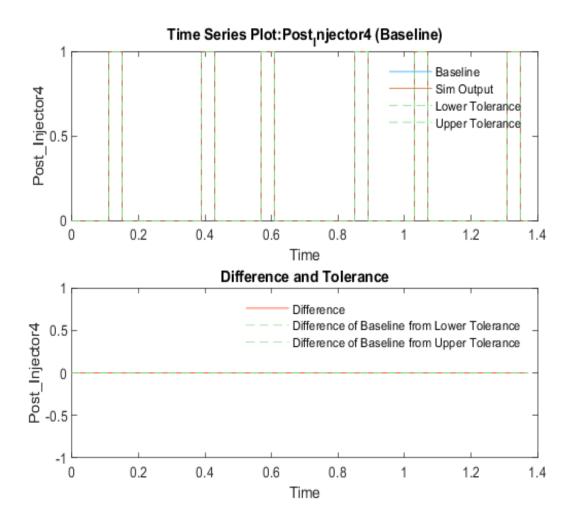
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To	Lead T	Lag T ol	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Post_Injec tor1	0	0	0	0	0	boolean	i I I		boolean		0.01	zoh	union



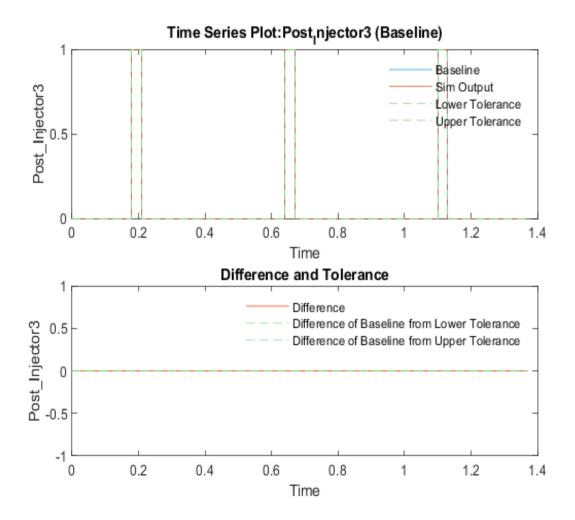
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Post_Injec tor4	0	0	0	0	0	boolean	 		boolean		0.01	zoh union



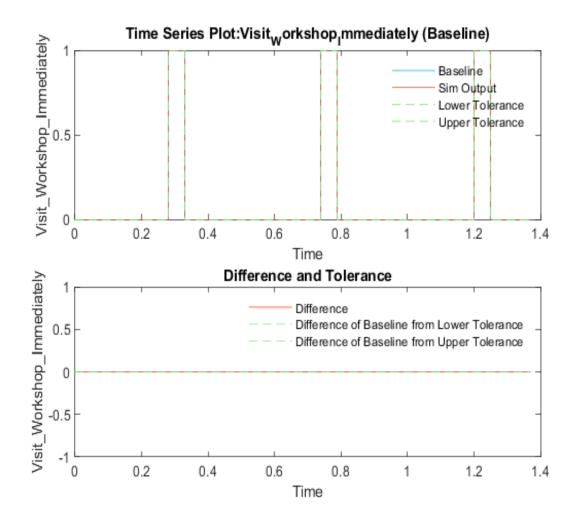
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To	Lead T	Lag T	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp	Sync
Post_Injector3	0	0	0	0	0	boolean	i I I		boolean		0.01	zoh lu	union



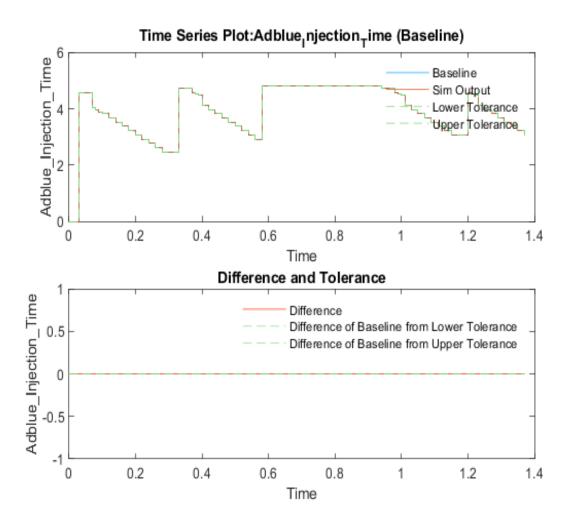
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Units 1	Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Visit_Wor		i I		l I	i I	i I		i i				l İ
kshop_Imme	0	0	0	0	0	boolean	 		boolean		0.01	zoh union
diately		į		i	į							į



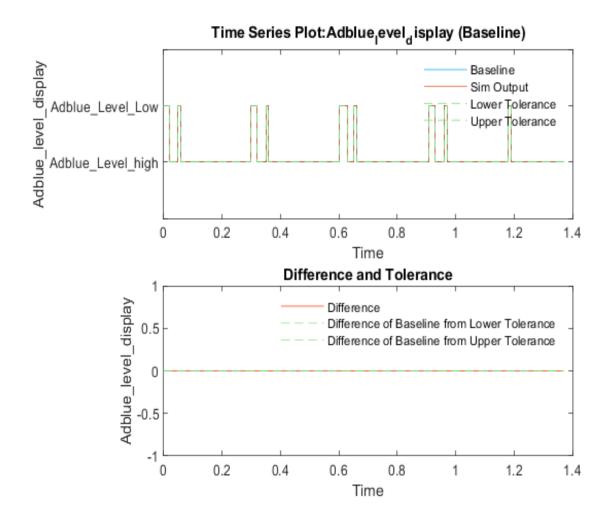
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Ti me 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Adblue_In jection_Time	0	0	0	0	0	double	 		double		0.01	zoh union



Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel T ol	Lead Tol	Lag T ol	Max D iff	Data Type 1	Units 1	Sample T ime 1	Data Type 2	Units 2	Sample Ti me 2	Interp Sync
Adblue_le	0	0	0	0	0	adblue_capacity	i i i		adblue_capacity	i i i	0.01	zoh union



Back to Report SummaryBack to Criteria Results

Input Data

Input Information

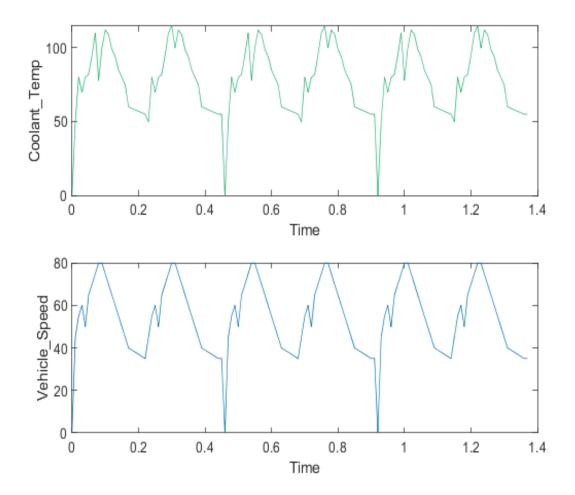
External Input Eas_Test11

Name:

External Input File: E:\Matlab\Project\Eas_24072022-20220726T17095 9Z-001\Eas_24072022\Eas_Functional_Test.xlsx

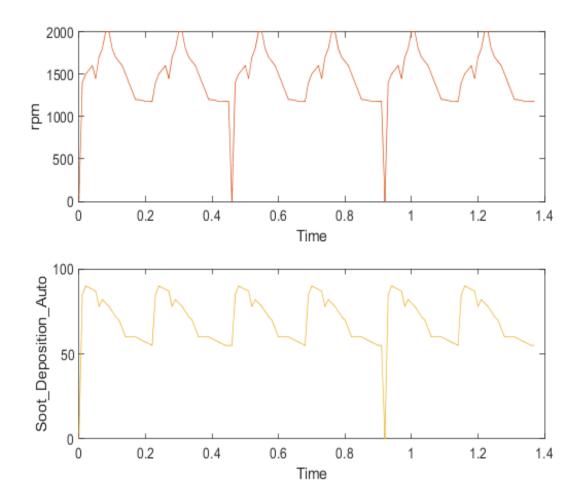
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plo t
Coolant_Temp	int16		Continuous	linear	union	<u>Link</u>
Vehicle_Speed	uint8	 	Continuous	linear	union	Link
rpm	uint16		Continuous	linear	union	<u>Link</u>
Soot_Deposition_Aut	uint8	 	Continuous	linear	union	<u>Link</u>
DPF_Temp_Auto	uint8		Continuous	linear	union	<u>Link</u>
Soot_Deposition_Ma	uint8		Continuous	linear	union	<u>Link</u>
DPF_Temp_Manual	int16		Continuous	linear	union	<u>Link</u>
Break_Pedal	boolean	 	 	zoh	union	<u>Link</u>
Accelerator_Pedal	boolean		 	zoh	union	<u>Link</u>
Clutch_Pedal	boolean			zoh	union	<u>Link</u>
Crank_Angle	uint16		Continuous	linear	union	Link
Soot_Deposition_Ser	uint8		Continuous	linear	union	<u>Link</u>
Nox_Sensor	uint16		Continuous	linear	union	<u>Link</u>
Scr_Temp_Sensor	uint16		Continuous	linear	union	Link
Adblue_Level	uint8		Continuous	linear	union	Link
Adblue_Quality	double		Continuous	linear	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
_Coolant_Temp	int16	i 	Continuous	linear	union
Vehicle_Speed	uint8		Continuous	linear	union



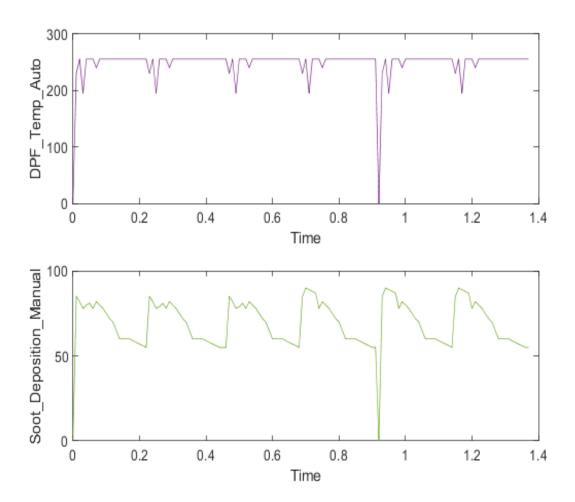
Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
rpm	uint16	i 	Continuous	linear	union
Soot_Deposition_Aut	uint8		Continuous	linear	union



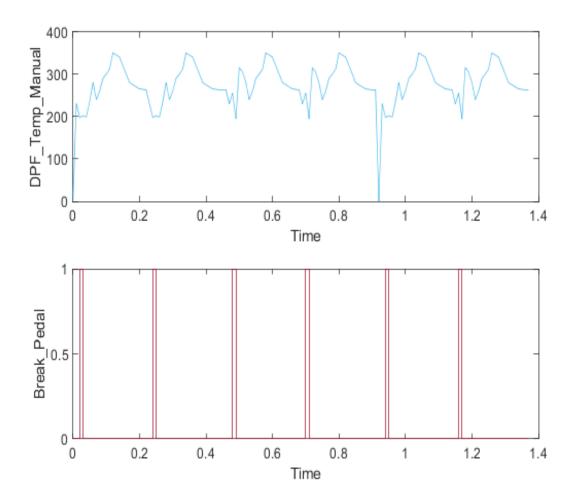
Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
DPF_Temp_Auto	uint8	i 	Continuous	linear	union
Soot_Deposition_Ma	uint8		Continuous	linear	union



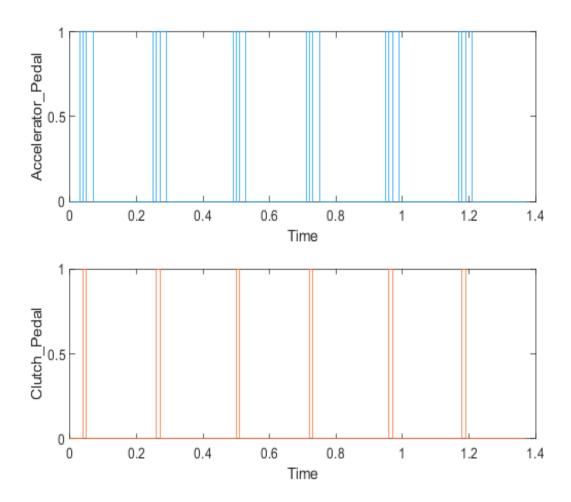
Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
DPF_Temp_Manual	int16		Continuous	linear	union
Break_Pedal	boolean	 	 	zoh	union



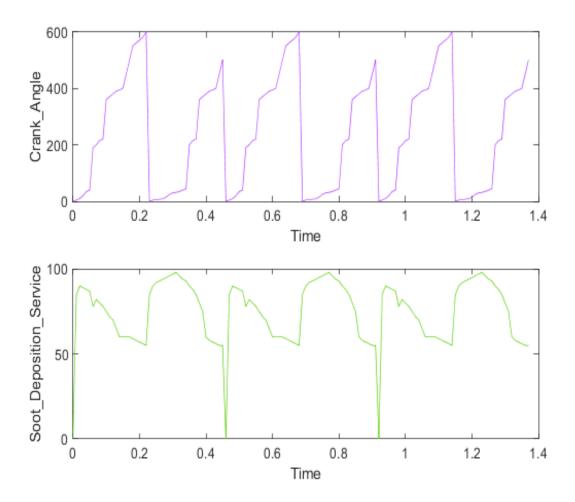
Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
Accelerator_Pedal	boolean			zoh	union
Clutch_Pedal	boolean	 	 	zoh	union



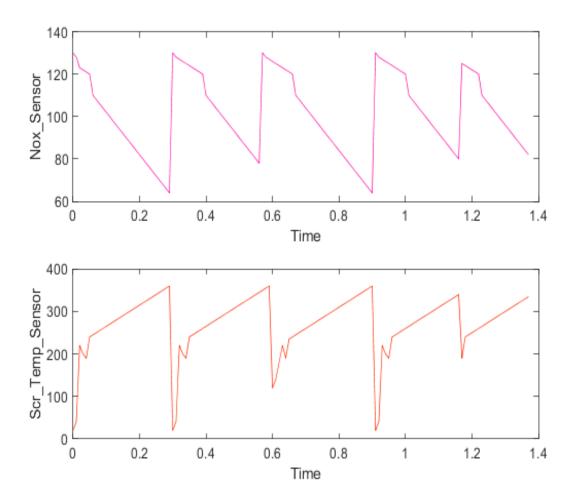
Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
Crank_Angle	uint16	i 	Continuous	linear	union
Soot_Deposition_Ser	uint8		Continuous	linear	union



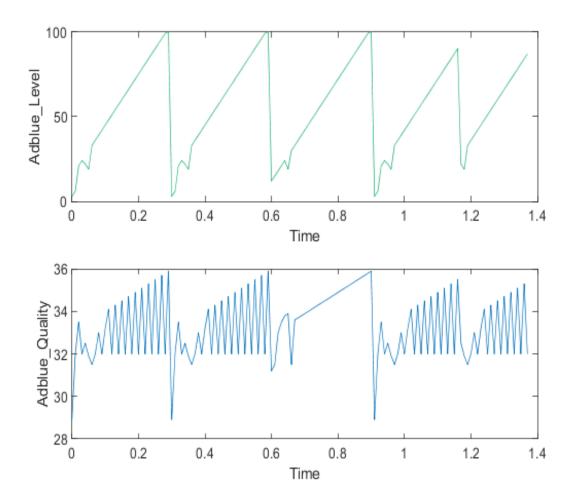
Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
Nox_Sensor	uint16		Continuous	linear	union
Scr_Temp_Sensor	uint16		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
Adblue_Level	uint8		Continuous	linear	union
Adblue_Quality	double		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Simulation

System Under Test Information

Model: Eas_Integrated

Harness: Eas_Integrated_Harness

Harness Owner: Eas_Integrated

Release: Current Simulation Mode: normal

Override SIL or PIL 0

Mode:

Configuration Set: Configuration1 External Input Name: Eas_Test11

External Input File: E:\Matlab\Project\Eas_24072022-20220726T17095

9Z-001\Eas_24072022\Eas_Functional_Test.xlsx

Start Time: 0

Stop Time: 1.370000000000001

Checksum: 918296074 10159789 653853210 1775591569

Simulink Version: 10.3 Model Version: 1.1

Model Author: SOMNATH

Date: Thu Aug 04 14:26:32 2022

User ID: SOMNATH

Model Path: E:\Matlab\Project\Eas_24072022-20220726T17095

 $9Z-001 \\ Eas_24072022 \\ Eas_Integrated_Harness.slx$

Machine Name: DESKTOP-10VJ470 Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.01

Simulation Start Time: 2022-08-04 14:39:25 Simulation Stop Time: 2022-08-04 14:39:26

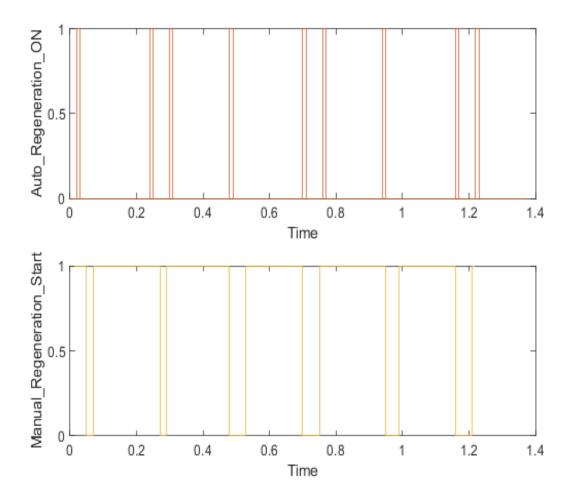
Platform: PCWIN64

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plo t
Auto_Regeneration_ ON_	boolean		0.01	zoh	union	<u>Link</u>
Manual_Regeneratio n_Start	boolean		0.01	zoh	union	<u>Link</u>
Post_Injector1	boolean	 	0.01	zoh	union	<u>Link</u>
Post_Injector4	boolean	 	0.01	zoh	union	<u>Link</u>
Post_Injector3	boolean	 	0.01	zoh	union	<u>Link</u>
Post_Injector2	boolean		0.01	zoh	union	<u>Link</u>
Press_Regeneration_ Button	boolean		0.01	zoh	union	Link

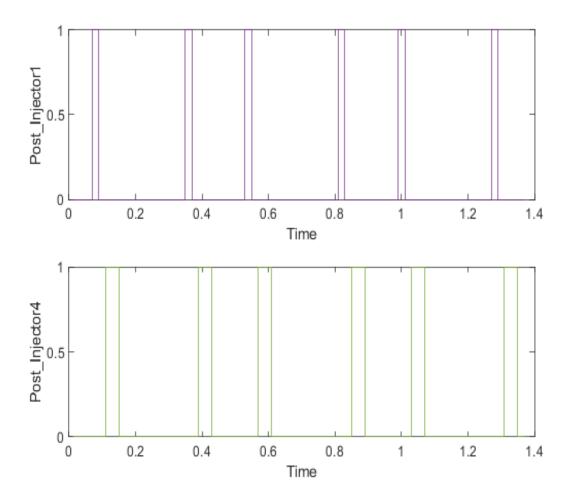
Visit_Workshop_Im mediately	boolean	; ; ;	0.01	zoh	union	<u>Link</u>
Adblue_Injection_Ti	double		0.01	zoh	union	<u>Link</u>
Adblue_level_displa	adblue_capacity	; ; ;	0.01	zoh	union	<u>Link</u>
Auto_Regeneration_ ON	boolean	i ! !	0.01	zoh	union	<u>Link</u>
Press_Regeneration_ Button	boolean		0.01	zoh	union	<u>Link</u>
Manual_Regeneration_ n_Start	boolean		0.01	zoh	union	<u>Link</u>
Post_Injector2	boolean	i_	0.01	zoh	union	<u>Link</u>
Post_Injector1	boolean	i	0.01	zoh	union	<u>Link</u>
Post_Injector4	boolean	i	0.01	zoh	union	<u>Link</u>
Post_Injector3	boolean	i	0.01	zoh	union	<u>Link</u>
Visit_Workshop_Im mediately	boolean	 	0.01	zoh	union	<u>Link</u>
Adblue_Injection_Ti	double	; ; ;	0.01	zoh	union	<u>Link</u>
Adblue_level_displa	adblue_capacity	; ! !	0.01	zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
Auto_Regeneration_ ON	boolean		0.01	zoh	union
Manual_Regeneration_Start	boolean	 	0.01	zoh	union



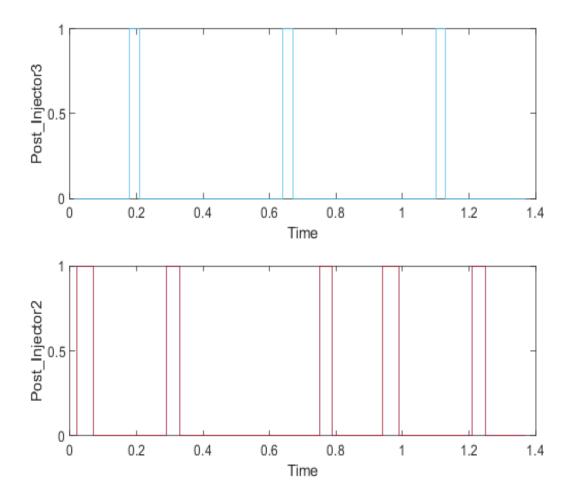
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Name	Data Type	Units	Sample Time	Interp	Sync
Post_Injector1	boolean		0.01	zoh	union
Post_Injector4	boolean		0.01	zoh	union



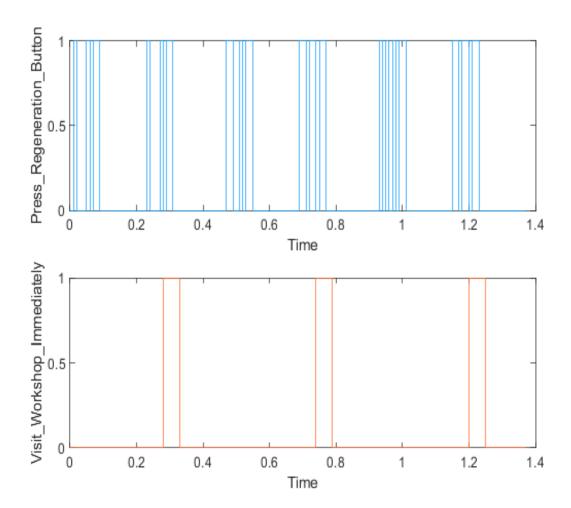
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Name	Data Type	Units	Sample Time	Interp	Sync
Post_Injector3	boolean		0.01	zoh	union
Post_Injector2	boolean	 	0.01	zoh	union



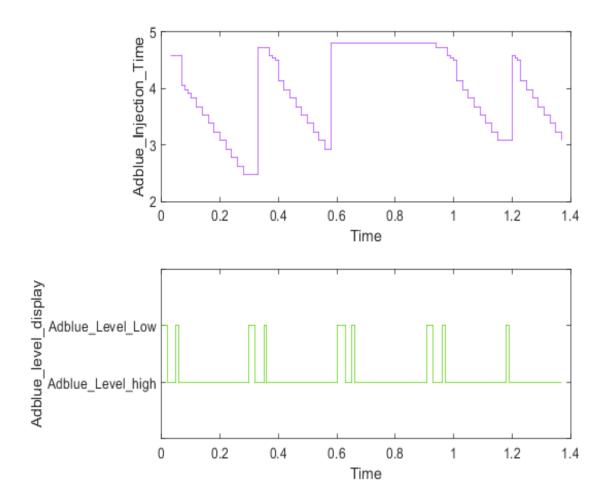
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Name	Data Type	Units	Sample Time	Interp	Sync
Press_Regeneration_ Button	boolean		0.01	zoh	union
Visit_Workshop_Im mediately	boolean		0.01	zoh	union



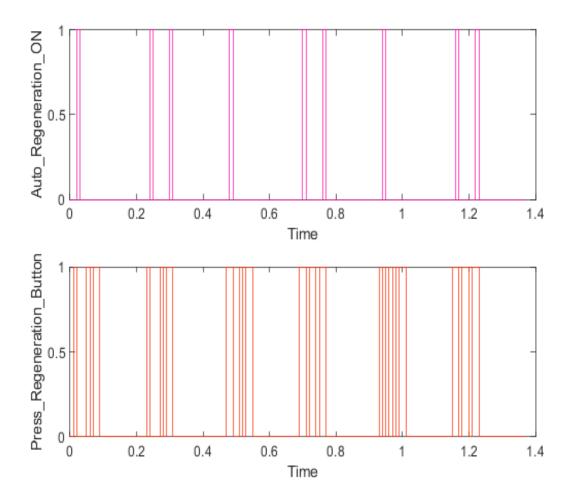
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Name	Data Type	Units	Sample Time	Interp	Sync
Adblue_Injection_Ti	double		0.01	zoh	union
Adblue_level_displa	adblue_capacity		0.01	zoh	union



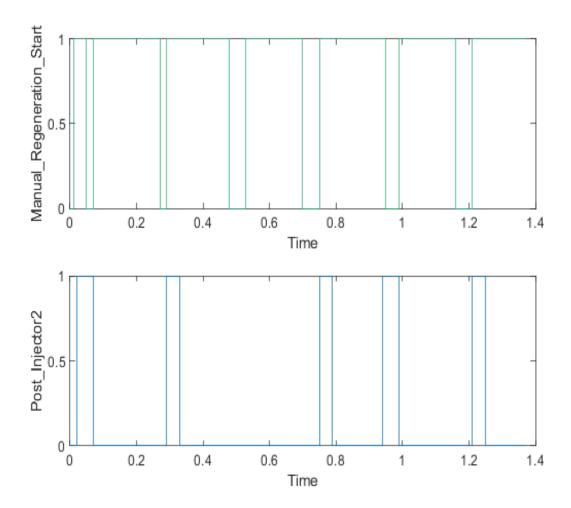
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Name	Data Type	Units	Sample Time	Interp	Sync
Auto_Regeneration_ ON	boolean		0.01	zoh	union
Press_Regeneration_ Button	boolean		0.01	zoh	union



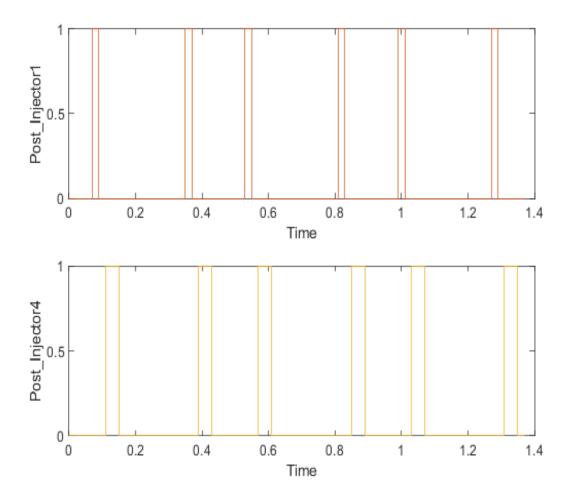
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Name	Data Type	Units	Sample Time	Interp	Sync
Manual_Regeneration_ n_Start	boolean		0.01	zoh	union
Post_Injector2	boolean		0.01	zoh	union



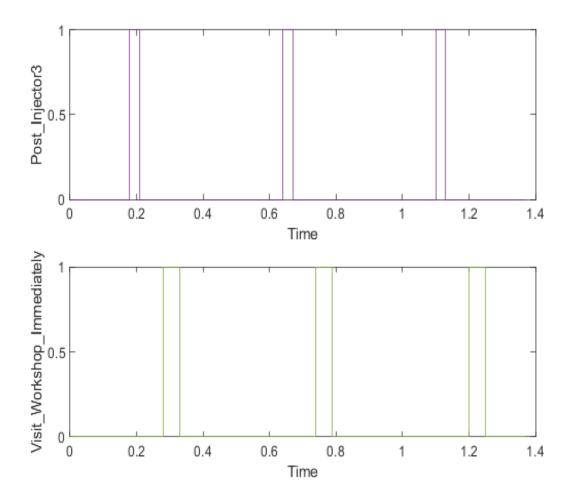
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Name	Data Type	Units	Sample Time	Interp	Sync
Post_Injector1	boolean	 	0.01	zoh	union
Post_Injector4	boolean	 	0.01	zoh	union



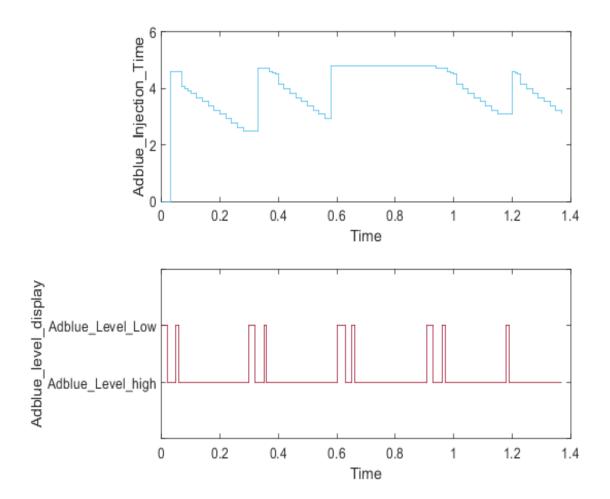
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Name	Data Type	Units	Sample Time	Interp	Sync
Post_Injector3	boolean	i	0.01	zoh	union
Visit_Workshop_Im mediately	boolean		0.01	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Adblue_Injection_Ti	double		0.01	zoh	union
Adblue_level_displa	adblue_capacity		0.01	zoh	union



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Simulation Logs:

Simulation stopped at '1.37000000000001' because there is no input data after this time point.

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