# **Report Generated by Test Manager**

Title: MIL\_SIL\_Test

Author: Navnath Sabale

Date: 04-Aug-2022 14:53:27

## **Test Environment**

Platform: PCWIN64 MATLAB: (R2021a)

# Summary

Name	Outcome	Duration (Seconds)
Results: 2022-Aug-04 14:51:03	2 🗷	93.336
□ <u>Eas_Test</u>	2 🗷	93.336
□ <u>MIL</u>	<b>②</b>	5.022
Functional Test	<b>②</b>	5.022
SIL	<b>⊘</b>	88.243
■ Functional_Test	•	88.243

### Results: 2022-Aug-04 14:51:03

Result Type: Result Set Parent: None

Start Time: 04-Aug-2022 14:51:06 End Time: 04-Aug-2022 14:52:39 Outcome: Total: 2, Passed: 2

**Back to Report Summary** 

### Eas\_Test

### **Test Result Information**

Result Type: Test File Result

Parent: Results: 2022-Aug-04 14:51:03

Start Time: 04-Aug-2022 14:51:06 End Time: 04-Aug-2022 14:52:39 Outcome: Total: 2, Passed: 2

#### **Test Suite Information**

Name: Eas\_Test

**Back to Report Summary** 

#### **MIL**

#### **Test Result Information**

Result Type: Test Suite Result

Parent: Eas Test

Start Time: 04-Aug-2022 14:51:06 End Time: 04-Aug-2022 14:51:11 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 14:51:06 End Time: 04-Aug-2022 14:51:11

Outcome: Passed

#### **Test Case Information**

Name: Functional\_Test
Type: Baseline Test
Baseline Name: Eas\_Test11

Baseline File: E:\Matlab\Project\Eas\_24072022-20220726T17095

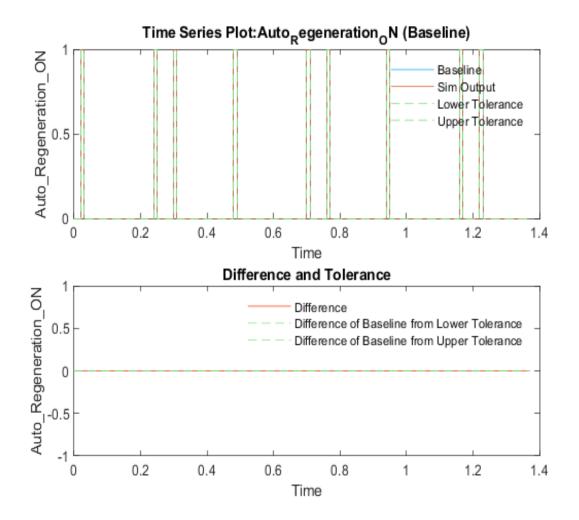
9Z-001\Eas\_24072022\Eas\_Functional\_Test.xlsx

### **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>
<ul><li>Manual_R</li><li>egeneration_</li><li>Start</li></ul>		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>

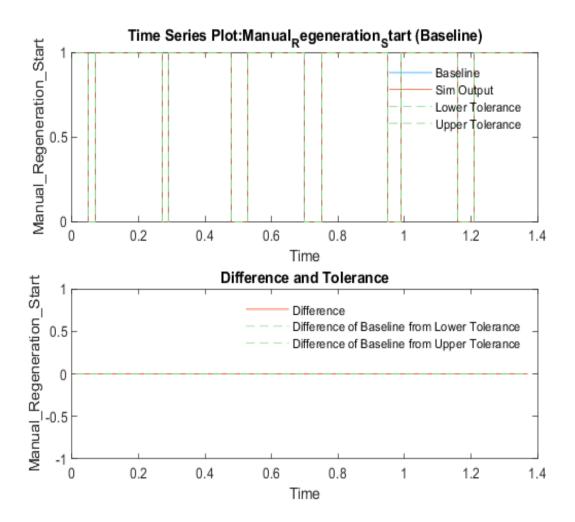
☑ Visit_Wor		   					i		i				
kshop_Imme	0	0	0	0	0	boolean		boolean	1	0.01	zoh	union	<u>Link</u>
diately		 	 	 	  -	! ++	ļ	  +			  -	ļ ļ	
Adblue_In	0	     0	0	0	     0		1	l l l double l		0.01	     70h	union	Link
jection_Time		i 	 	 	i 		. <del>.</del>	i i i	. – – i		 	++	
Adblue_le	0	     0	0	0	. 0	 	-	ı ıadblue_capacityı		0.01	     70h	ı ı ıunion	Link
vel_display					 		. <del>.</del>	++	. – – 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	. <del></del> .	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 ++	. <del>.</del>	i ++	. – – i			i ++	
Manual_R		l I			l	i 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 ++	. <del>.</del>	i +	i		i 	i i ++	
Post_Injec	0	     0	0	0		ı ı ı boolean ı	!	i i boolean i		0.01	l I I zoh	union	Link
tor2						Doorean	. <del></del> .	Doolean	·¦	0.01	ZUII   		
Post_Injector1	0	l !	0	0		i i I boolean i	-	i i boolean i	į	0.01	l I zob	union	Link
tor1		U   	U 	U 	U   	Doolean	. <del> </del>	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	. <del> </del>	Doolean		0.01	2011 		<u>LIIIK</u>
Post_Injec	0	1	0	0		i   boolean	1	l l	į	0.01	nob.	 	T imb
tor3		U   	U 	U 	U   	Doolean	. <del> </del>	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		   		 	 	¦ ++	. <del> </del>	: ++	+		 	¦ ;	
Adblue_In	0	1			0		į		į	0.01		<u>i</u> j	T (1-
jection_Time	0	U   	0   	0   	U   	double	. <del> </del>	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



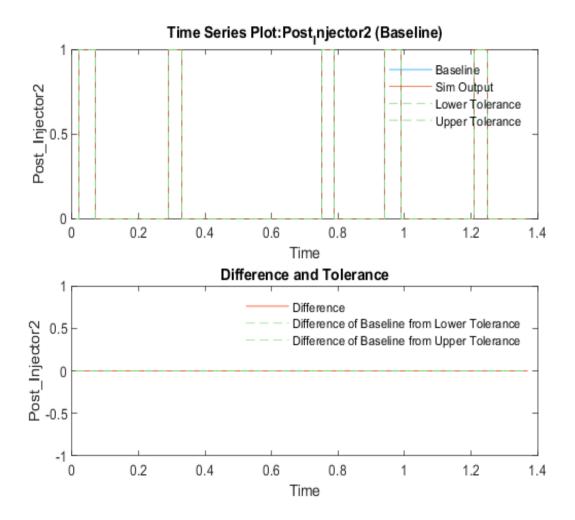
Back to Report SummaryBack to Criteria Results

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		İ					
egeneration_	0	0	0	0	0	boolean	l I	 	boolean		0.01	ı zoh i	union
Start	 	 	 	 	 			 					



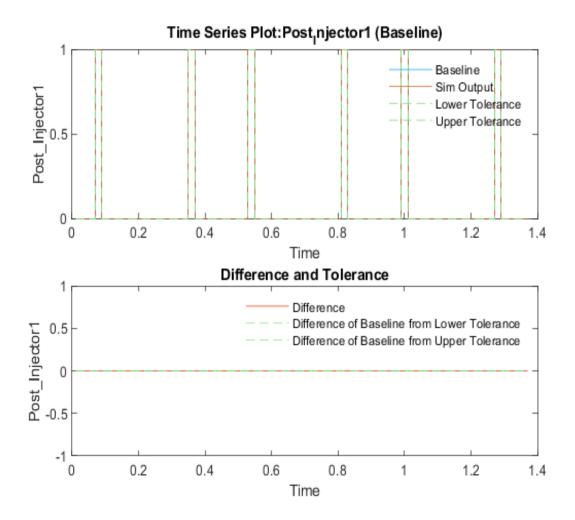
Back to Report SummaryBack to Criteria Results

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



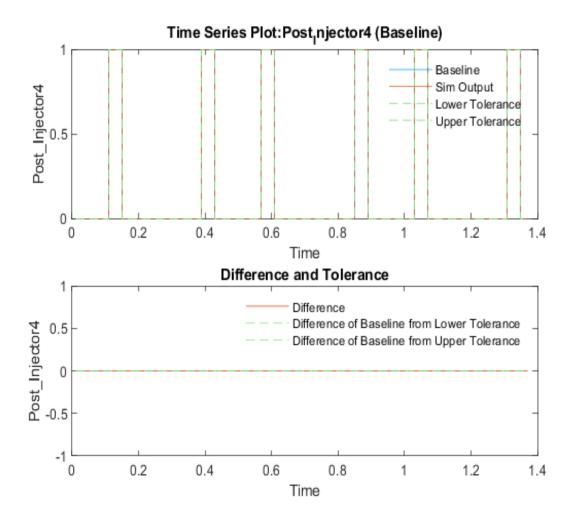
Back to Report SummaryBack to Criteria Results

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



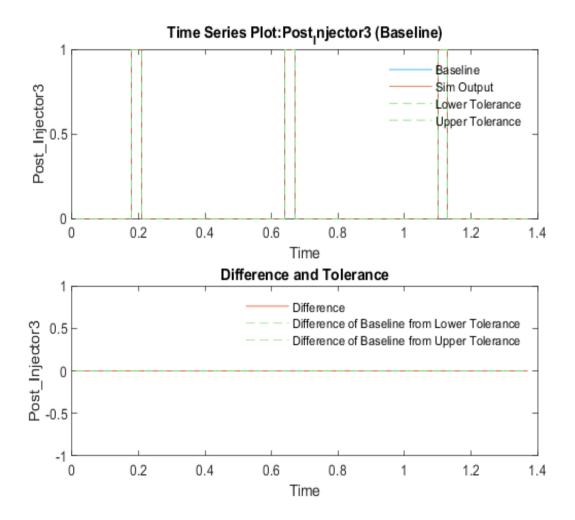
Back to Report SummaryBack to Criteria Results

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



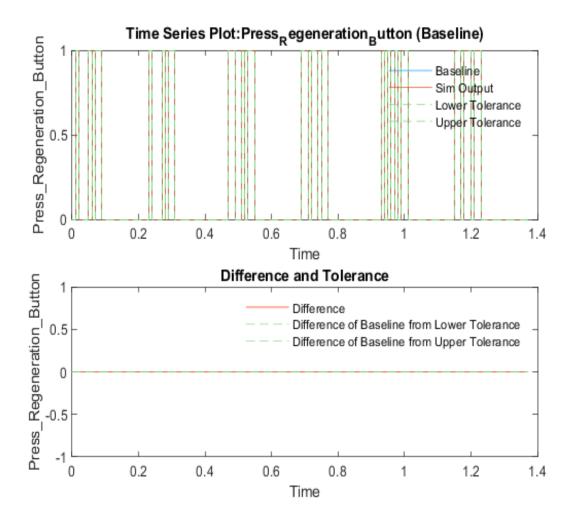
Back to Report SummaryBack to Criteria Results

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



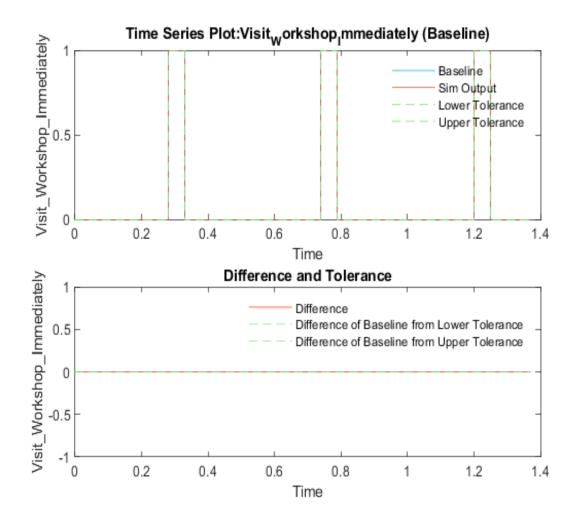
Back to Report SummaryBack to Criteria Results

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					! !						



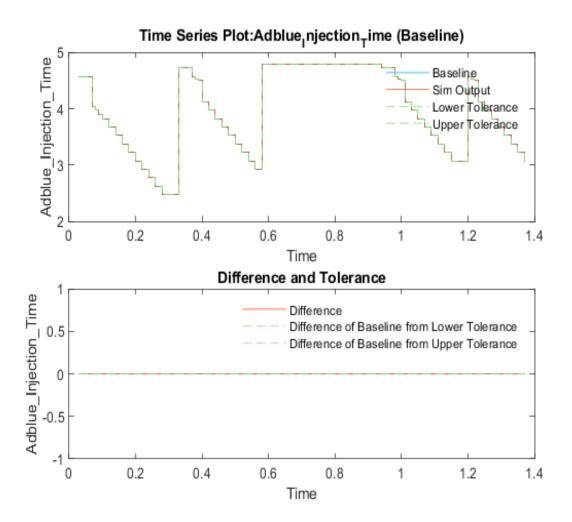
Back to Report SummaryBack to Criteria Results

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



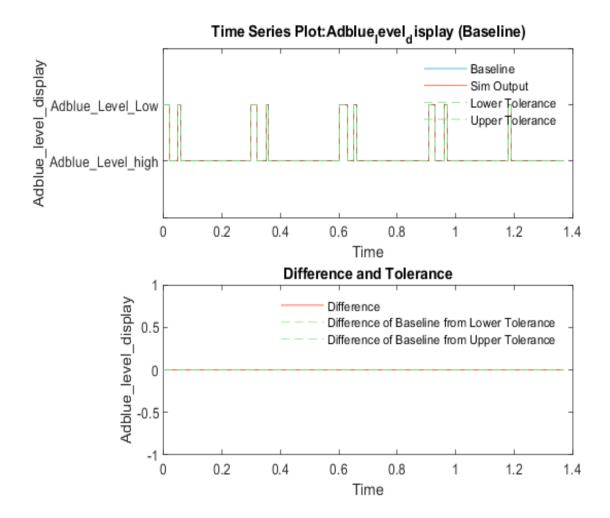
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T	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



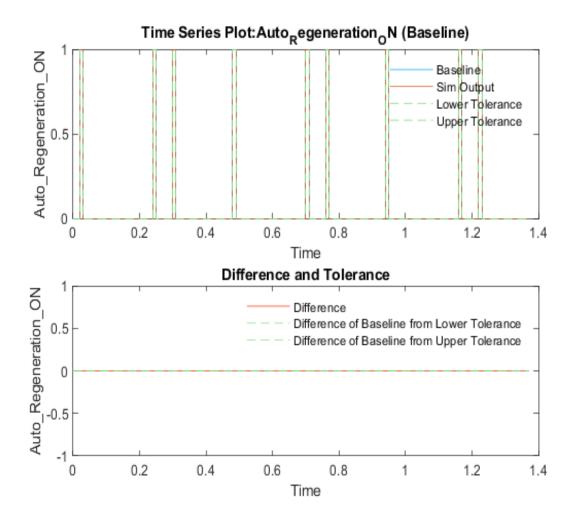
Back to Report SummaryBack to Criteria Results

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



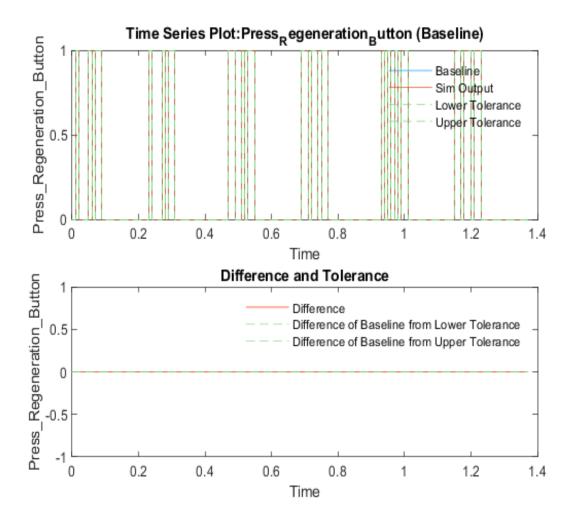
Back to Report SummaryBack to Criteria Results

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 1	union



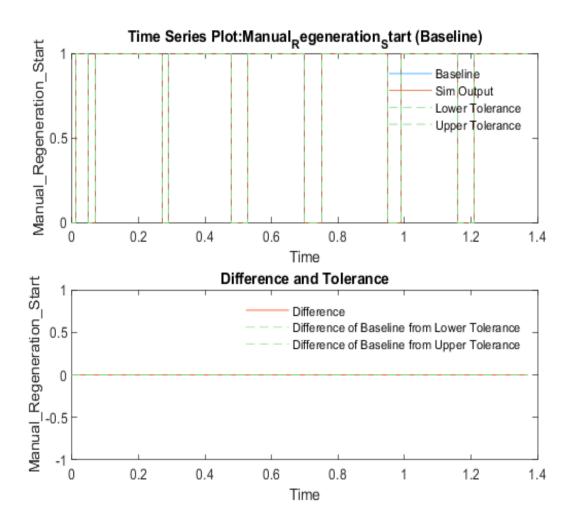
Back to Report SummaryBack to Criteria Results

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	



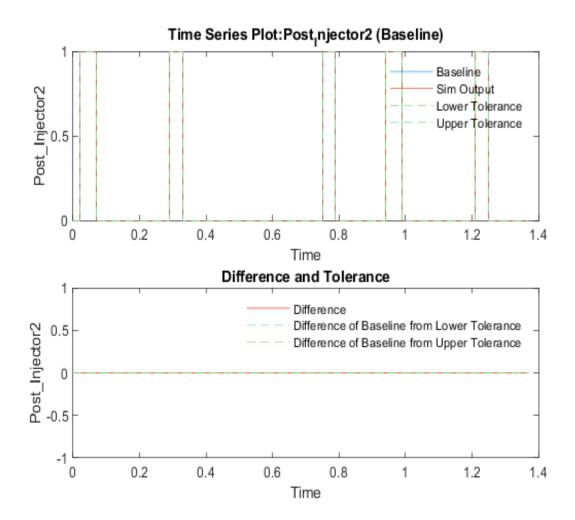
Back to Report SummaryBack to Criteria Results

	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						



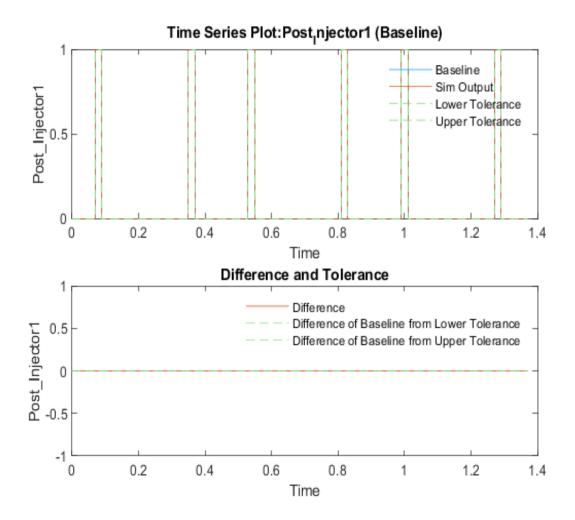
Back to Report SummaryBack to Criteria Results

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



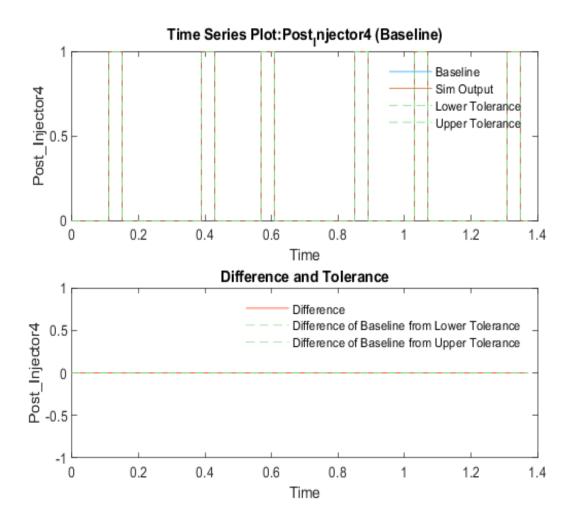
Back to Report SummaryBack to Criteria Results

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



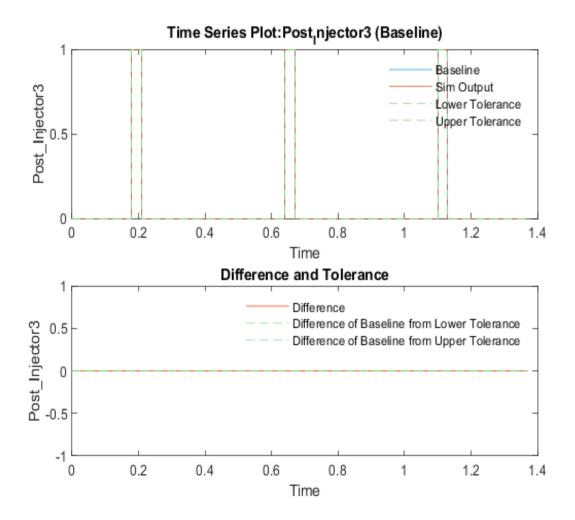
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T	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



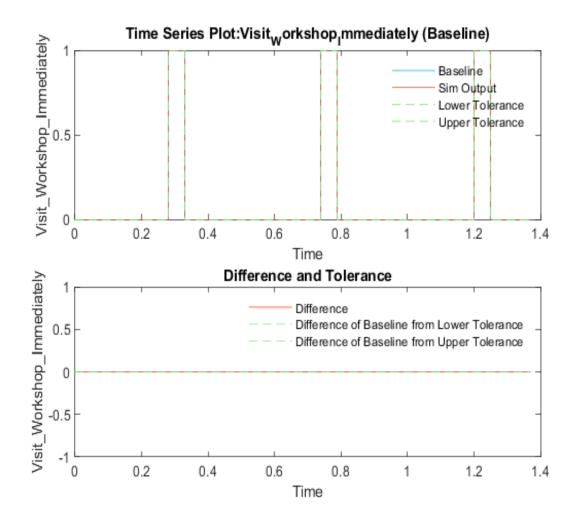
Back to Report SummaryBack to Criteria Results

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



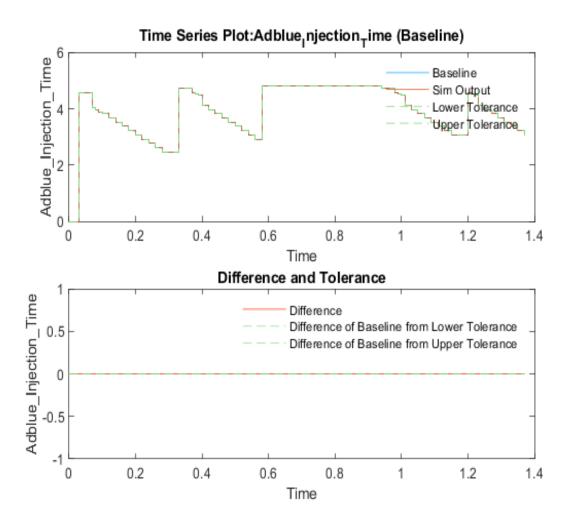
Back to Report SummaryBack to Criteria Results

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



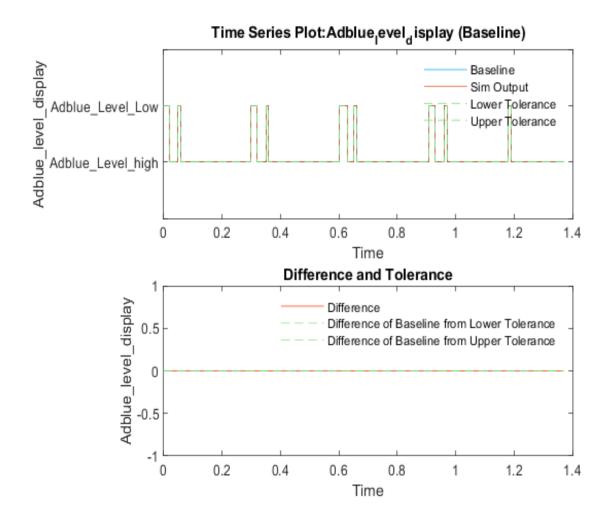
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T	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**

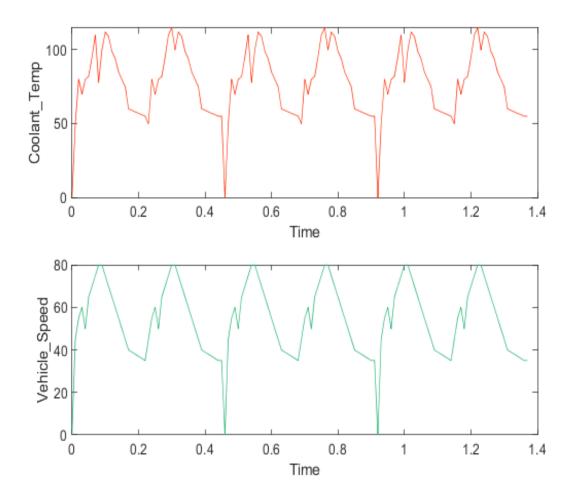
External Input Eas\_Test11

Name:

External Input File: E:\Matlab\Project\Eas\_24072022-20220726T17095 9Z-001\Eas\_24072022\Eas\_Functional\_Test.xlsx

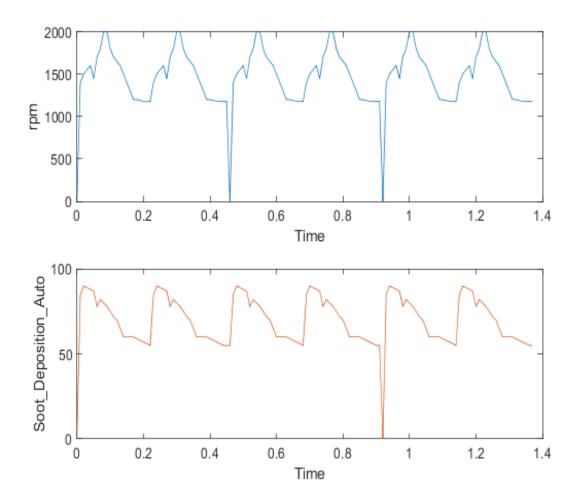
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plo t
Coolant_Temp	int16		Continuous	linear	union	<u>Link</u>
Vehicle_Speed	uint8	 	Continuous	linear	union	Link
rpm	uint16		Continuous	linear	union	<u>Link</u>
Soot_Deposition_Aut	uint8	 	Continuous	linear	union	<u>Link</u>
DPF_Temp_Auto	uint8		Continuous	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		Continuous	linear	union
Vehicle_Speed	uint8		Continuous	linear	union



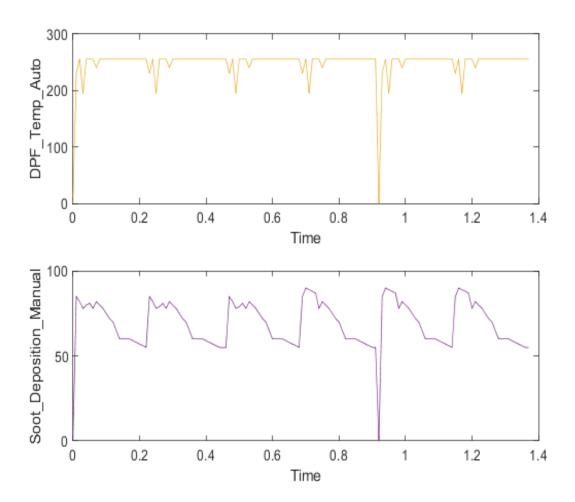
Back to Report SummaryBack to Signal Summary

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



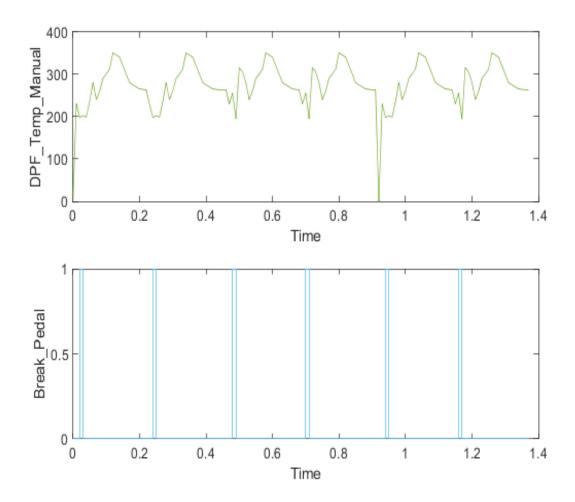
Back to Report SummaryBack to Signal Summary

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



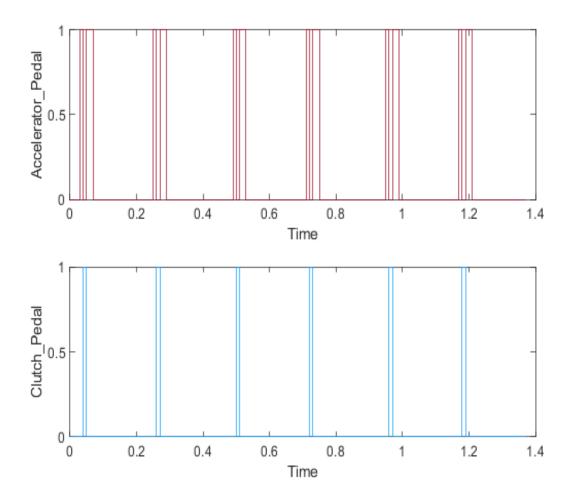
Back to Report SummaryBack to Signal Summary

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



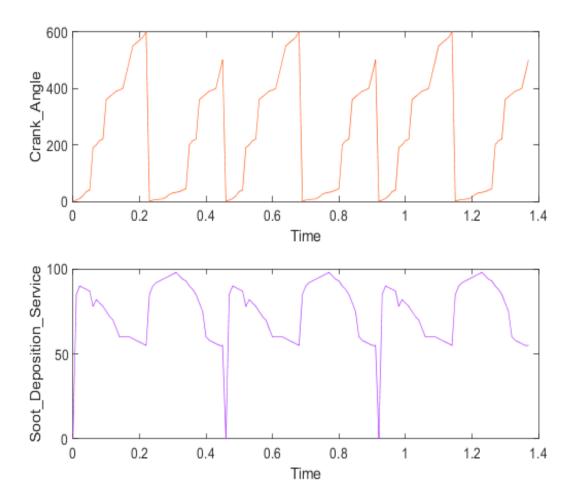
Back to Report SummaryBack to Signal Summary

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



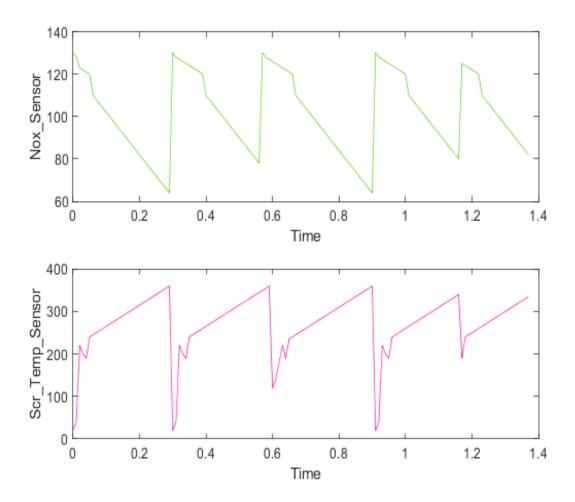
Back to Report SummaryBack to Signal Summary

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



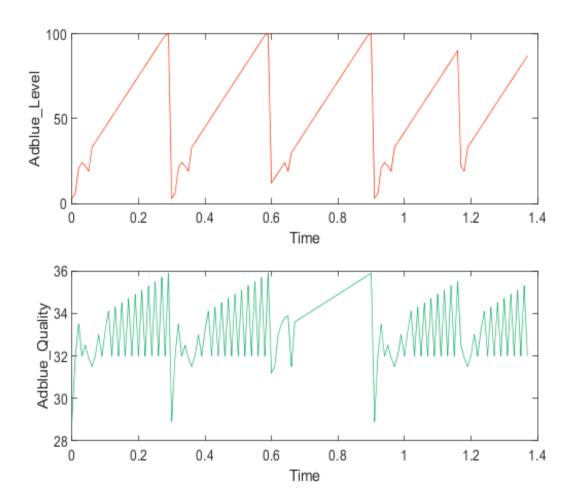
Back to Report SummaryBack to Signal Summary

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

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

0

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 14:51:07 Simulation Stop Time: 2022-08-04 14:51:08

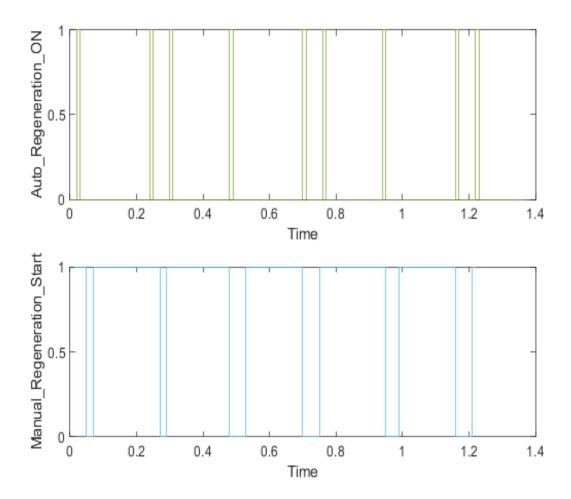
Platform: PCWIN64

#### **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	i 	0.01	zoh	union	<u>Link</u>
Post_Injector3	boolean	i 	0.01	zoh	union	<u>Link</u>
Post_Injector2	boolean	i 	0.01	zoh	union	<u>Link</u>
Press_Regeneration_ Button	boolean	       	0.01	zoh	union	Link

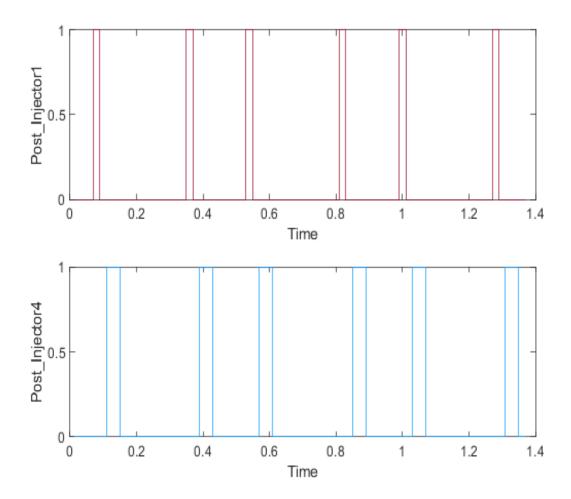
Visit_Workshop_Im mediately	boolean	; ; ;	0.01	zoh	union	<u>Link</u>
Adblue_Injection_Ti	double		0.01	zoh	union	<u>Link</u>
Adblue_level_displa	adblue_capacity	i !	0.01	zoh	union	<u>Link</u>
Auto_Regeneration_ ON	boolean		0.01	zoh	union	<u>Link</u>
Press_Regeneration_ Button	boolean		0.01	zoh	union	<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	i !	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_Regeneratio n_Start	boolean		0.01	zoh	union



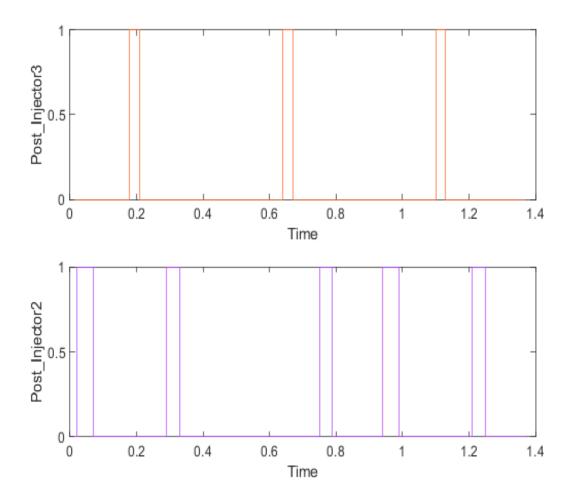
Back to Report SummaryBack to Signal Summary

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



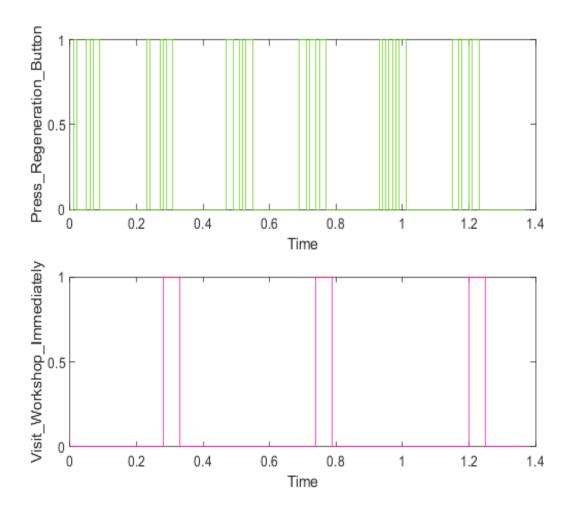
Back to Report SummaryBack to Signal Summary

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



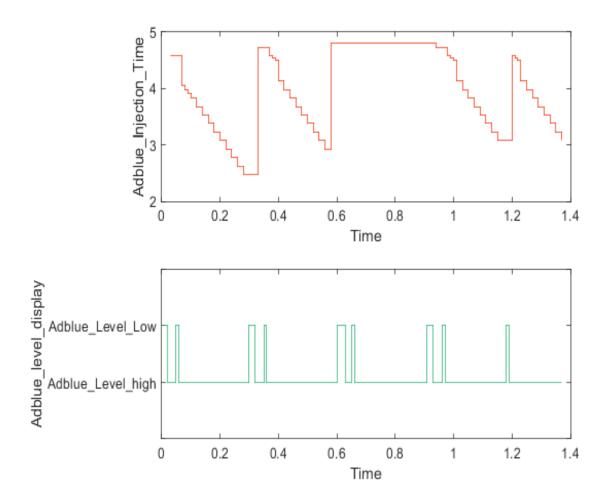
Back to Report SummaryBack to Signal Summary

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



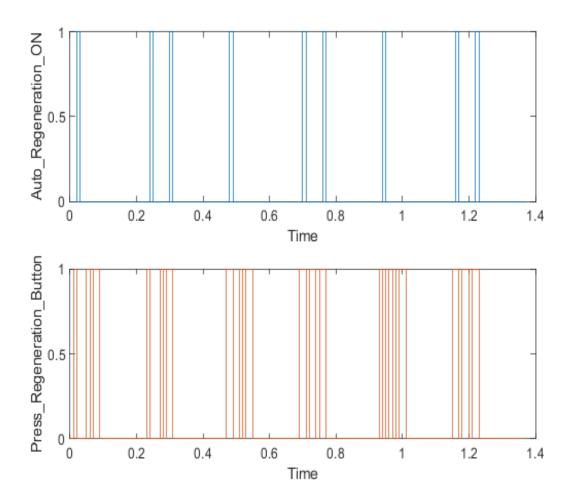
Back to Report SummaryBack to Signal Summary

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



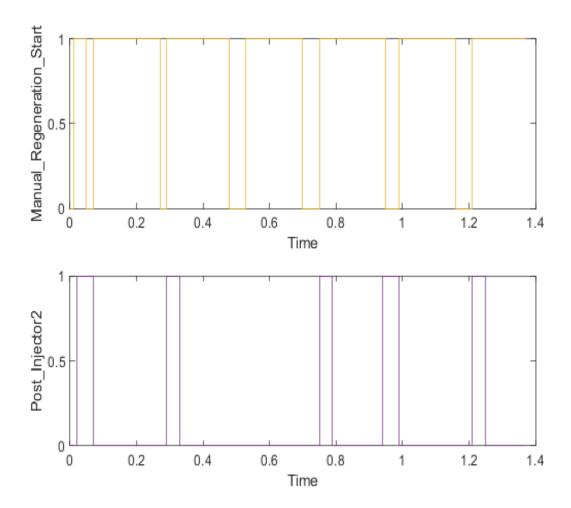
Back to Report SummaryBack to Signal Summary

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



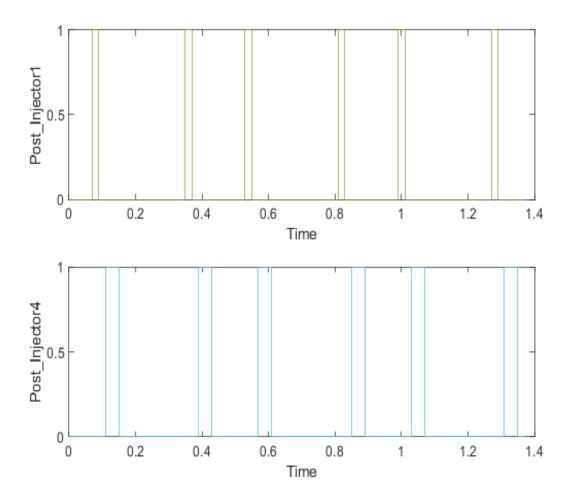
Back to Report SummaryBack to Signal Summary

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



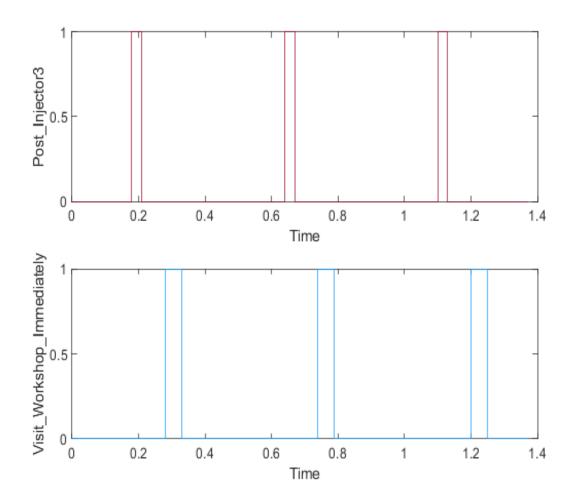
Back to Report SummaryBack to Signal Summary

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



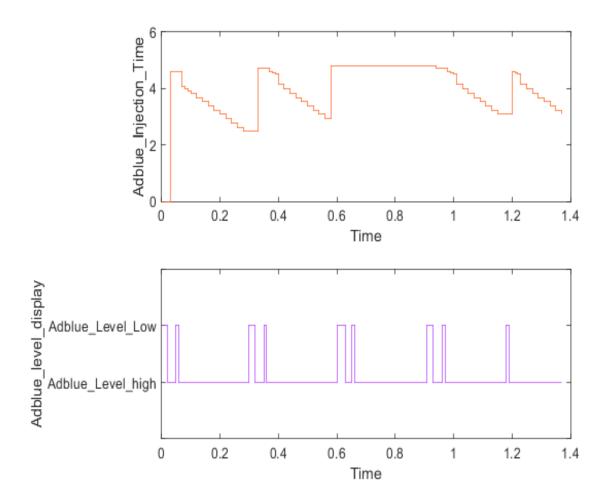
Back to Report SummaryBack to Signal Summary

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.

## **Back to Report Summary**

### SIL

#### **Test Result Information**

Result Type: Test Suite Result

Parent: Eas\_Test

Start Time: 04-Aug-2022 14:51:11 End Time: 04-Aug-2022 14:52:39 Outcome: Total: 1, Passed: 1

#### **Test Suite Information**

Name: SIL

**Back to Report Summary** 

### Functional\_Test

#### **Test Result Information**

Result Type: Test Case Result

Parent: <u>SIL</u>

Start Time: 04-Aug-2022 14:51:11 End Time: 04-Aug-2022 14:52:39

Outcome: Passed

#### **Test Case Information**

Name: Functional\_Test Type: Equivalence Test

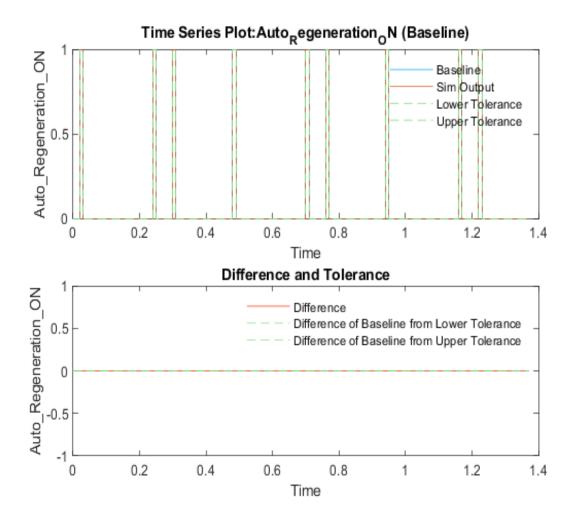
# **Equivalence Comparison**

Name	Abs Tol	Rel	d T	Lag	Max Diff	Data Type 1	Uni ts 1	Sample Ti me 1	Data Type 2	Uni ts 2	Sample Ti me 2	Interp		Link to Plo t
Auto_Reg eneration_ON	ı 0 ı	0	0	0	0	boolean		0.01	boolean	 	0.01	zoh	union	<u>Link</u>

Manual_R				İ			1		i		i i	
egeneration_		0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	<u>Link</u>
Start	   	 	   	   	   	<u> </u>				 	<u> </u>	
Post_Injec	0				0	boolean	. 0.01	l l	0.01	nob.	union	T imle
tor1		1 1	ı	I	I	Doolean	0.01	boolean i	0.01	2011 		<u>Link</u>
Post_Injector4	. 0	. 0		i i . 0	i i . 0	boolean	0.01	boolean	0.01	l I zoh	union	Link
		 			¦ 	++-	-+	Boolean	+	ZOII 	++	
Post_Injec	0	0	0	0	     0		0.01	l l l boolean l	0.01	ı ı zoh	union	Link
tor3	 			 		<del></del>		<del></del>			ļ <u></u>	
Post_Injec	0	0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	Link
tor2	  -		 	 	 	! !		 		  -	++	
☑ Press_Reg				i	i	i , , i		i . , ,		i,	i . i	** 1
eneration_Bu	0 	0   	0 	0 	0 	boolean i	0.01	boolean i	0.01	ı zoh	iunion	<u>Link</u>
tton Visit_Wor						<del> </del> <del> </del> -		<del></del>			<del></del> +	
kshop_Imme		1	0	     0	     0		0.01	ı ı ı boolean ı	0.01	     zoh	union	<u>Link</u>
diately	0	i i		U   	U   		1 0.01		0.01	l I		LIIIK
Adhlue In	 			 !	 !	!	-+	!	+		++	
jection_Time	0	0	0	0	0	double	0.01	double	0.01	zoh	union	<u>Link</u>
Adblue_le	     _			   		*   		+   			††	
vel_display	0	0	0	ı 0	ı 0	adblue_capacity	0.01	adblue_capacity	0.01	zoh	union	<u>Link</u>
Auto_Reg	0					haalaan	0.01	haalaan	0.01	nob.		T imle
eneration_ON	U   	0	U   	U   	ı 0 ⊦	boolean i	0.01	boolean	0.01	ZOII 	union	<u>Link</u>
Press_Reg				l	l I							
eneration_Bu	0	0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	<u>Link</u>
tton	i 			i 	i 	i ++-		i +			ļ ļ	
Manual_R				 	 					 		
egeneration_	0	0	0	i 0	i 0	boolean i	0.01	boolean i	0.01	zoh	union	<u>Link</u>
Start	 	 	 	 	! <del> </del>	! !		 		 	<del> </del> <del> </del>	
☑ Post_Injec	0	0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	<u>Link</u>
tor2	 		 	ı   	 	<u> </u>	-‡	 		 	<del></del>	
<ul><li>Post_Injector1</li></ul>	0	0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	<u>Link</u>
								<u> </u>			<del></del>	
Post_Injector4	0	0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	<u>Link</u>
					 !	<u> </u>		·			<del></del> -	
Post_Injector3	0	0	0	0	0	boolean	0.01	boolean	0.01	zoh	union	<u>Link</u>
		L — — J	L — — -	L — — -		i-		<u>-</u>			i	

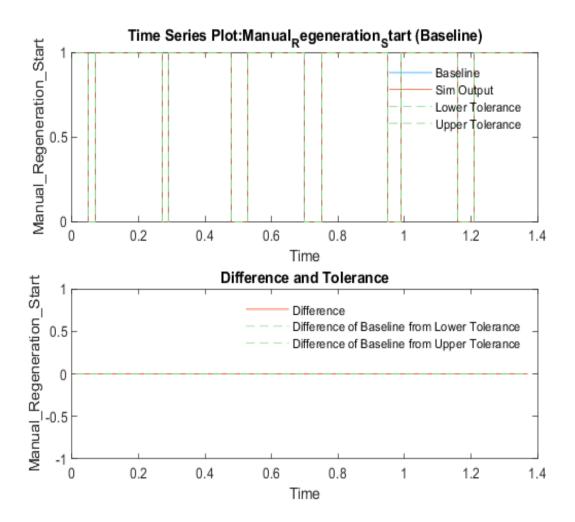
Visit_Wor	i	i	İ									i i	
kshop_Imme   0	0	) ¦	0	0	0	boolean		0.01	boolean	0.01	zoh	union	<u>Link</u>
diately	i.	į.				li			li			<u> </u>	
Adblue_In	į,	į	0	0	0	double	į	0.01	double	0.01	zoh	union	Link
jection_Time	+-	<u> </u>		U   		uouble         		0.01 	l double l	 0.01	Z011 	101110111	LIIIK
Adblue_le	į,	į	į			i i	i	0.04	i 	0.04	Ι,	i . i	** 1
vel_display	(		0	0	0	adblue_capacity		0.01	adblue_capacity	0.01	zon	union	<u>Link</u>

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



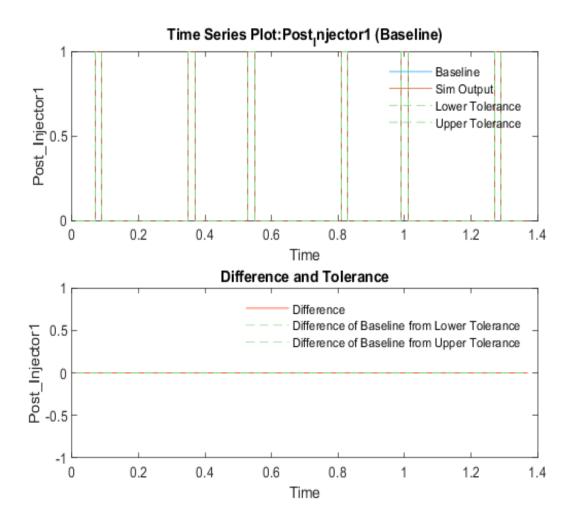
Back to Report SummaryBack to Criteria Results

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



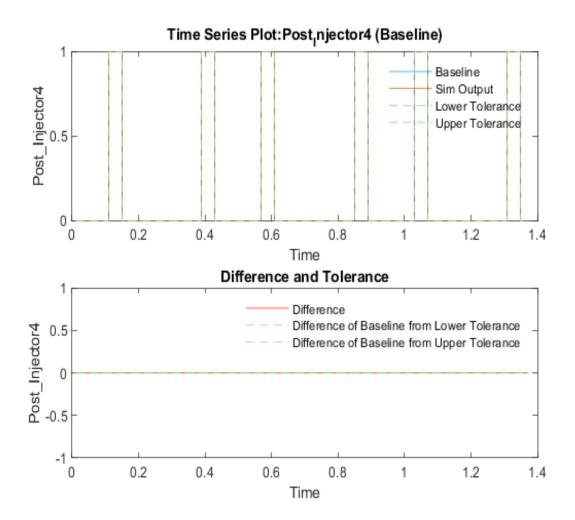
Back to Report SummaryBack to Criteria Results

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



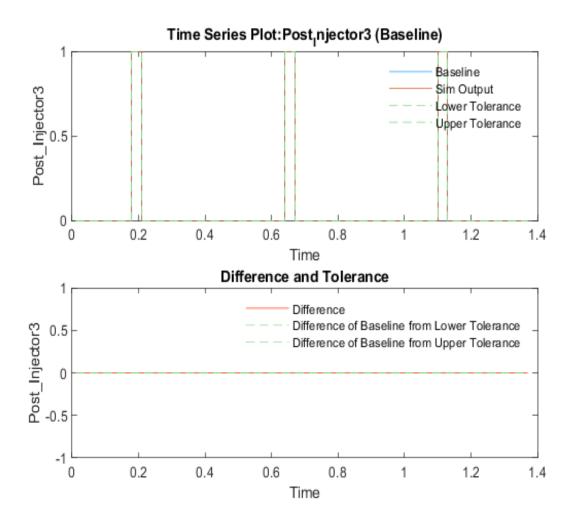
Back to Report SummaryBack to Criteria Results

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



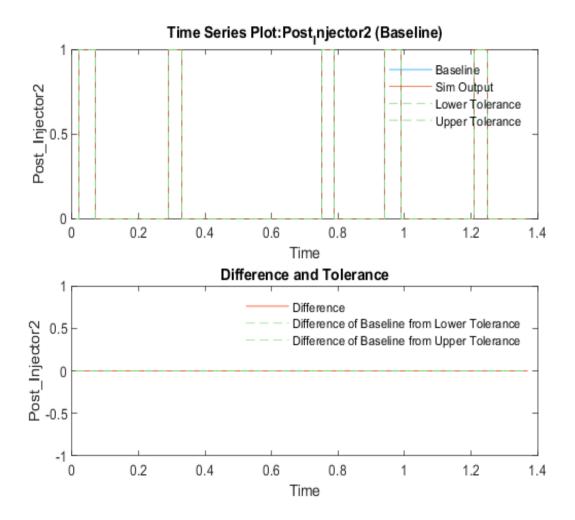
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To l	Lead T	Lag T	Max Di ff	Data Type 1	Units 1	Sample Tim e 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Post_Injec tor3	0	0	0	0	0	boolean	i i i	0.01	boolean		0.01	zoh union



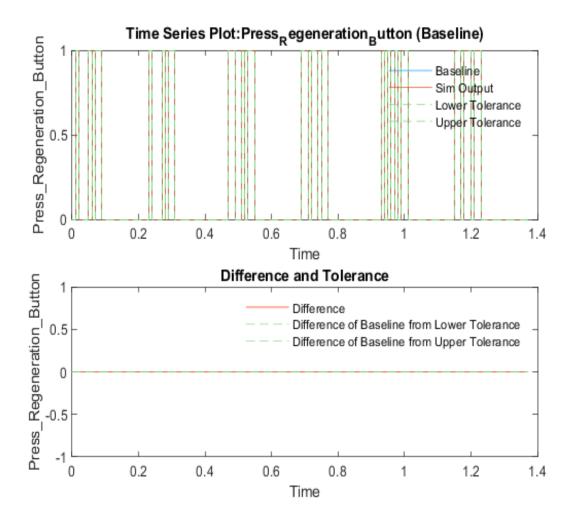
Back to Report SummaryBack to Criteria Results

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



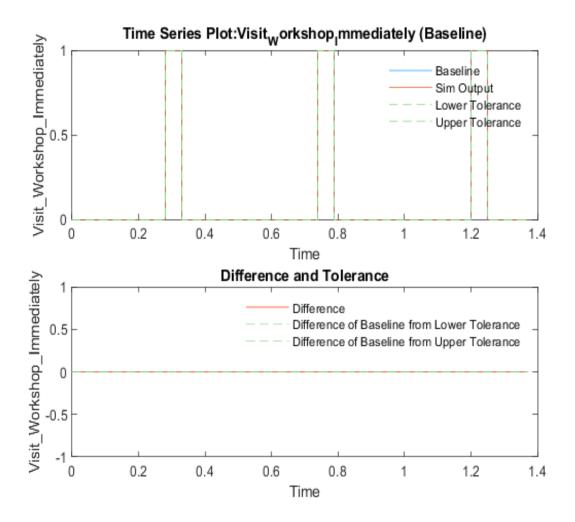
Back to Report SummaryBack to Criteria Results

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



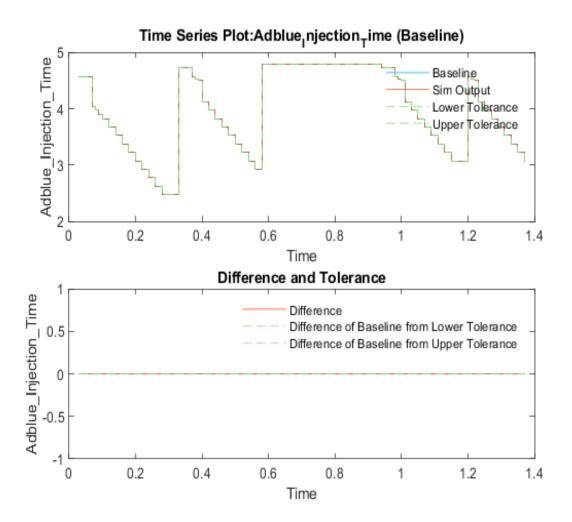
Back to Report SummaryBack to Criteria Results

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



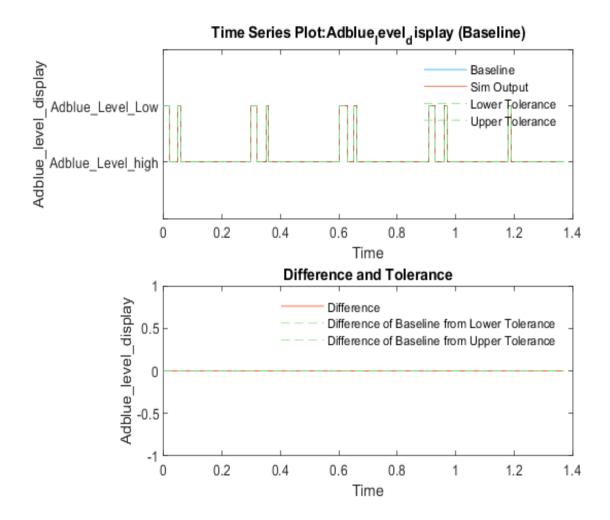
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Units 1	Sample Tim e 1	Data Type 2	Units 2	Sample Tim e 2	Interp Syn	c
Adblue_In	0	0	0	0	0	double	 	0.01	double		0.01	zoh junio	n



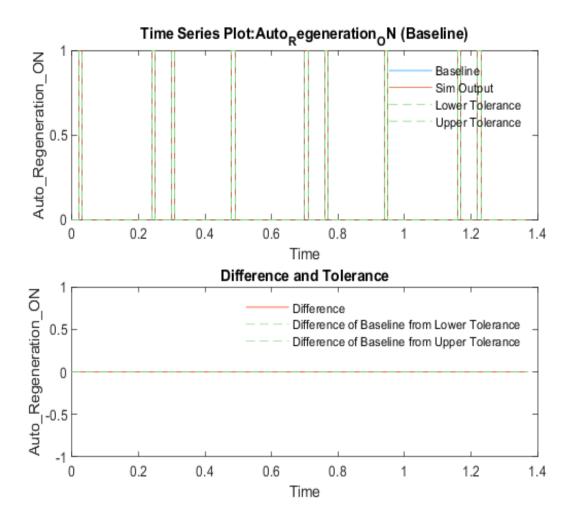
Back to Report SummaryBack to Criteria Results

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



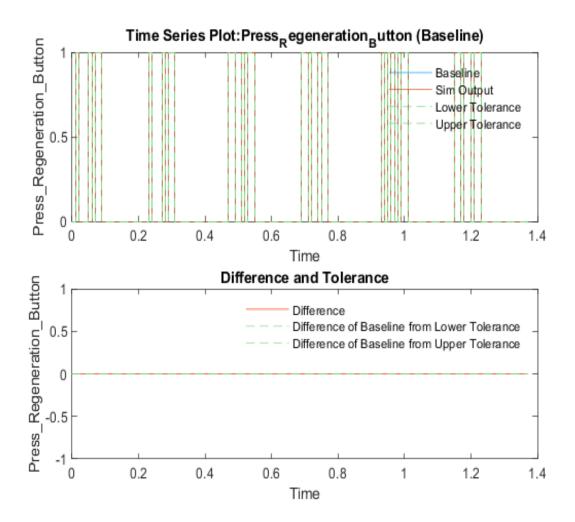
Back to Report SummaryBack to Criteria Results

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



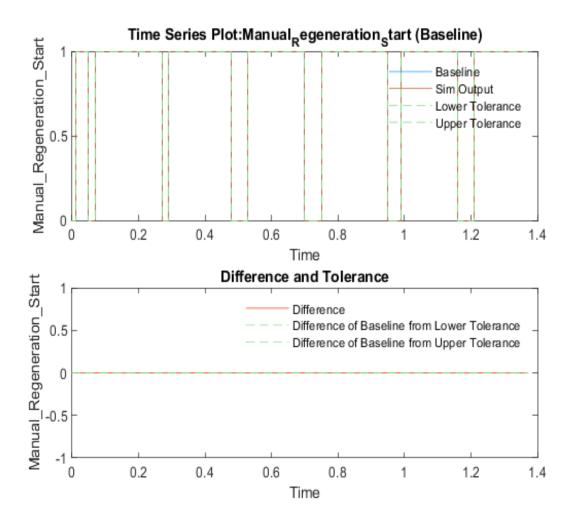
Back to Report SummaryBack to Criteria Results

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



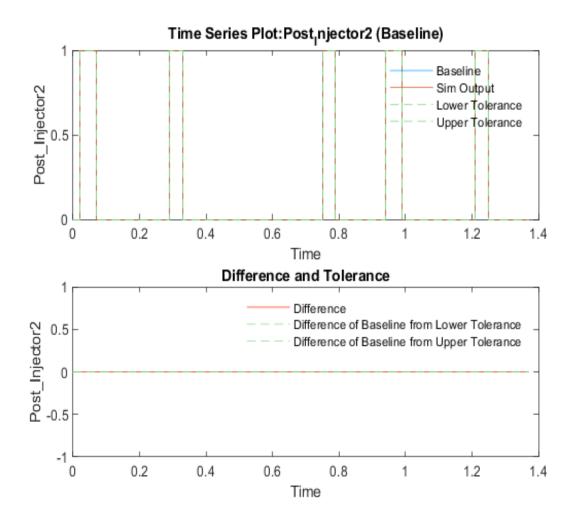
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1		Sample Tim e 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 I	l I					
egeneration_	0	0	0	0	0	boolean	 	0.01	boolean		0.01	zoh	union
Start		į	į	į	į	İ	į					i i	



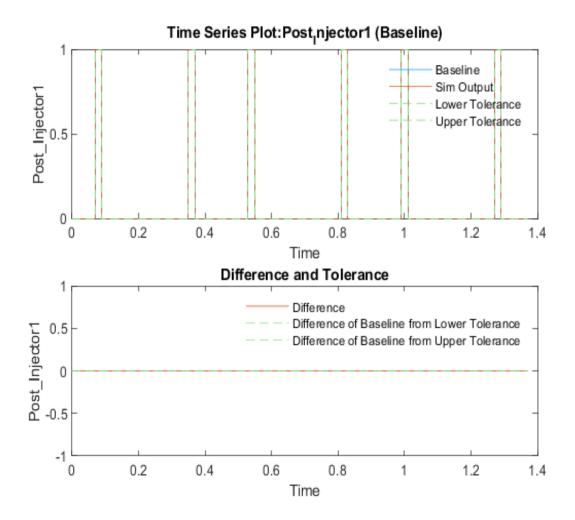
Back to Report SummaryBack to Criteria Results

Name	Abs T ol	Rel To	Lead T	Lag T ol	Max Di ff	Data Type 1	Units 1	Sample Tim e 1	Data Type 2	Units 2	Sample Tim e 2	Interp Sync
Post_Injector2	0	0	0	0	0	boolean	 	0.01	boolean		0.01	zoh unior



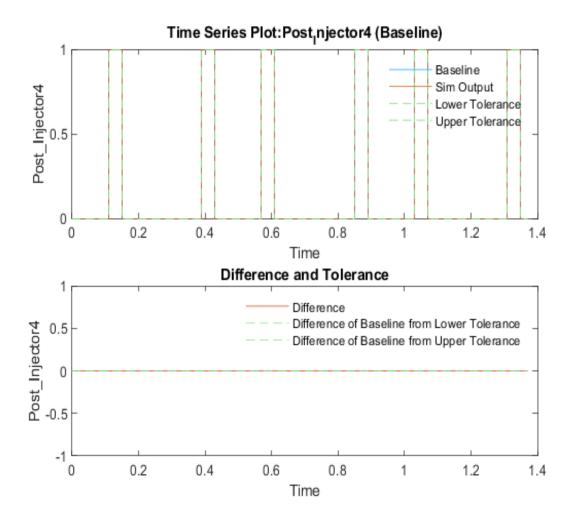
Back to Report SummaryBack to Criteria Results

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



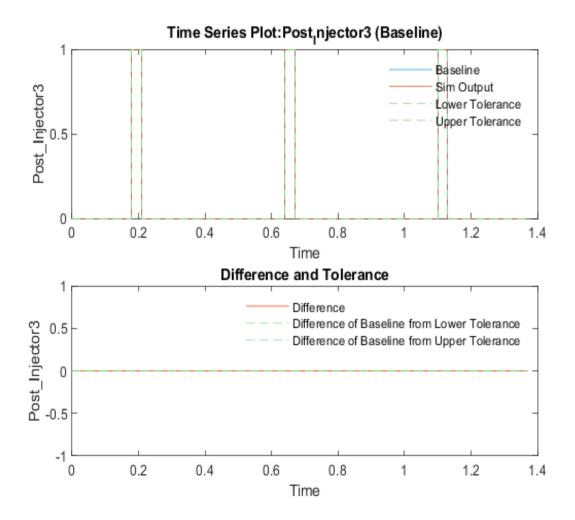
Back to Report SummaryBack to Criteria Results

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



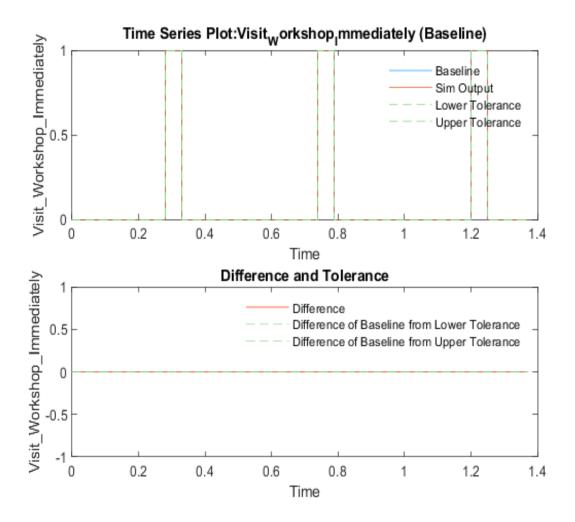
Back to Report SummaryBack to Criteria Results

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



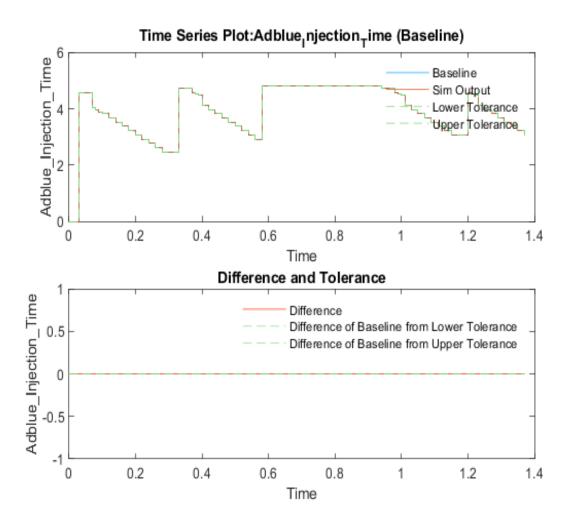
Back to Report SummaryBack to Criteria Results

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



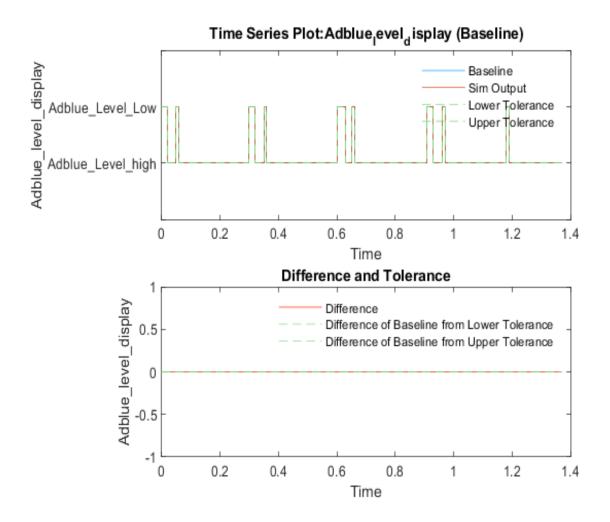
Back to Report SummaryBack to Criteria Results

Name	Abs T	Rel To l	Lead T ol	Lag T ol	Max Di ff	Data Type 1	Units 1	Sample Tim e 1	Data Type 2	Units 2	Sample Tim e 2	Interp Syn	c
Adblue_In	0	0	0	0	0	double	 	0.01	double		0.01	zoh junio	n



Back to Report SummaryBack to Criteria Results

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



Back to Report SummaryBack to Criteria Results

### **Input Data 1**

# **Input Information**

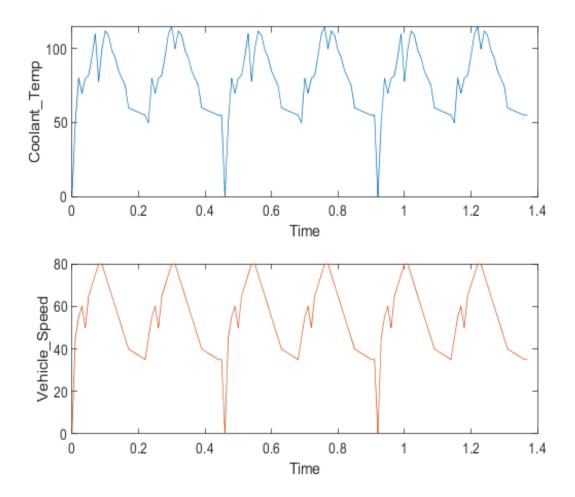
External Input Eas\_Test11

Name:

External Input File: E:\Matlab\Project\Eas\_24072022-20220726T17095 9Z-001\Eas\_24072022\Eas\_Functional\_Test.xlsx

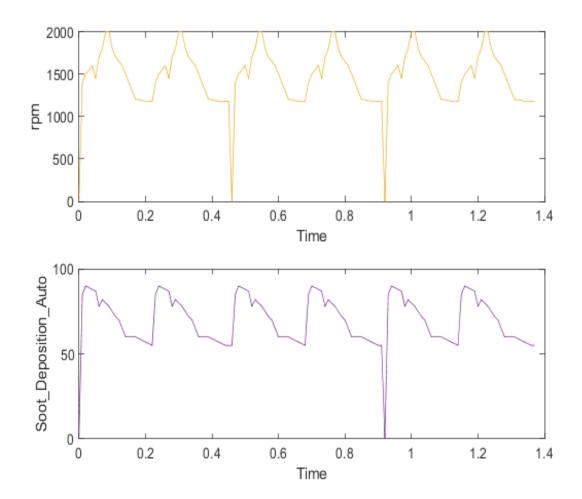
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plo t
Coolant_Temp	int16		Continuous	linear	union	<u>Link</u>
Vehicle_Speed	uint8	 	Continuous	linear	union	Link
rpm	uint16	i 	Continuous	linear	union	<u>Link</u>
Soot_Deposition_Aut	uint8	 	Continuous	linear	union	<u>Link</u>
DPF_Temp_Auto	uint8		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



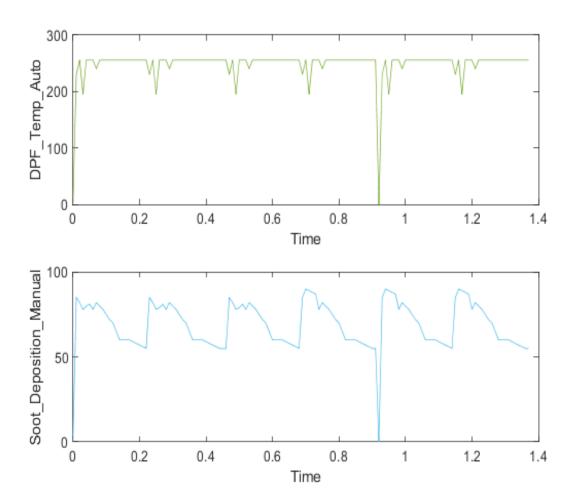
Back to Report SummaryBack to Signal Summary

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



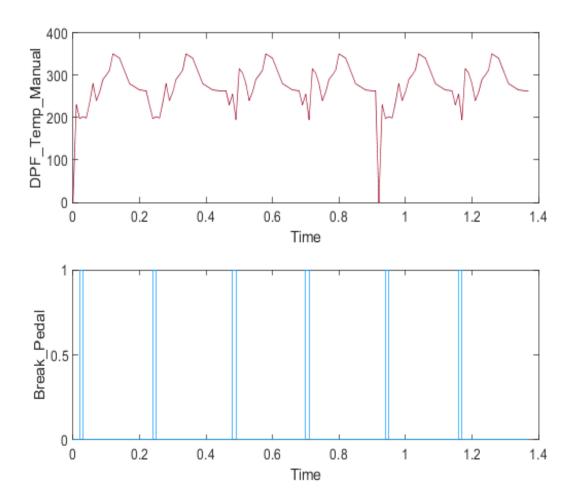
Back to Report SummaryBack to Signal Summary

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



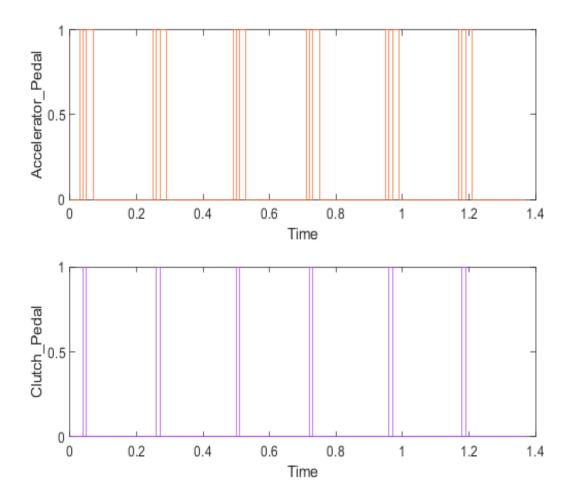
Back to Report SummaryBack to Signal Summary

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



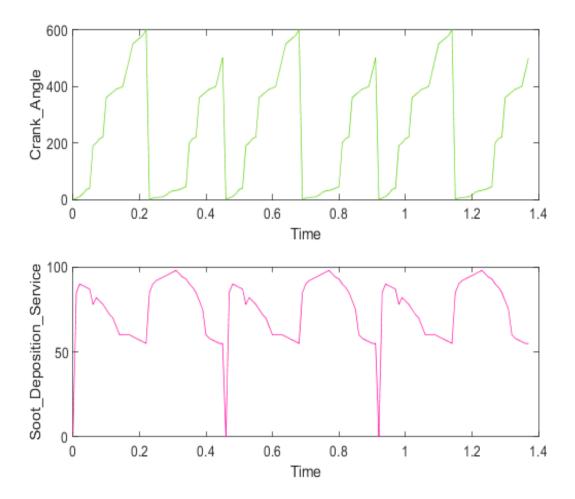
Back to Report SummaryBack to Signal Summary

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



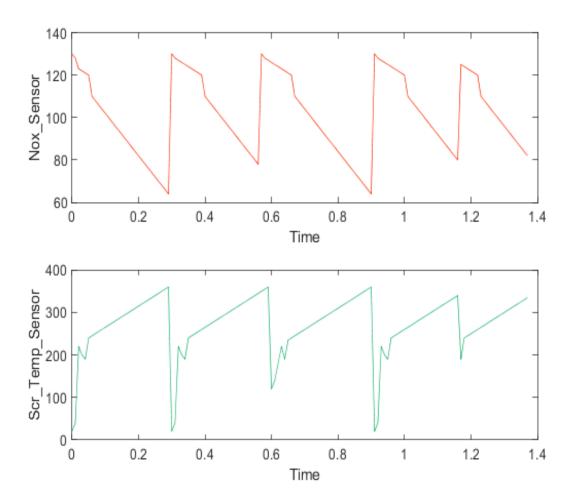
Back to Report SummaryBack to Signal Summary

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



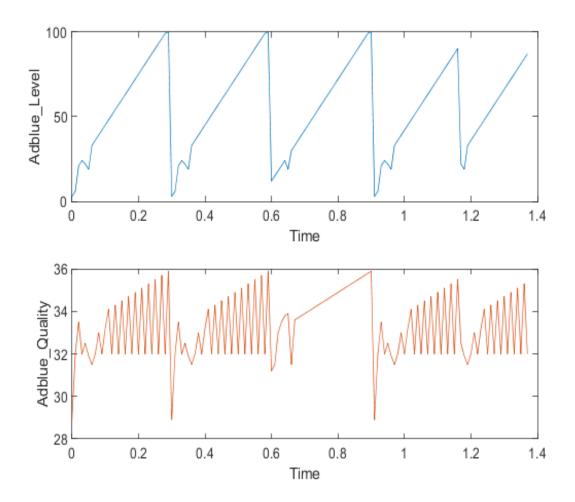
Back to Report SummaryBack to Signal Summary

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



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



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### **Input Data 2**

# **Input Information**

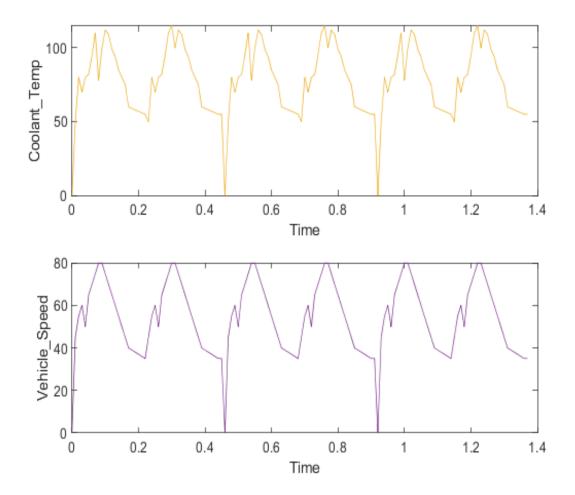
External Input Eas\_Test11

Name:

 $\label{linear_expect} External\ Input\ File: E:\Matlab\Project\Eas\_24072022-20220726T17095\\ 9Z-001\Eas\_24072022\Eas\_Functional\_Test.xlsx\\$ 

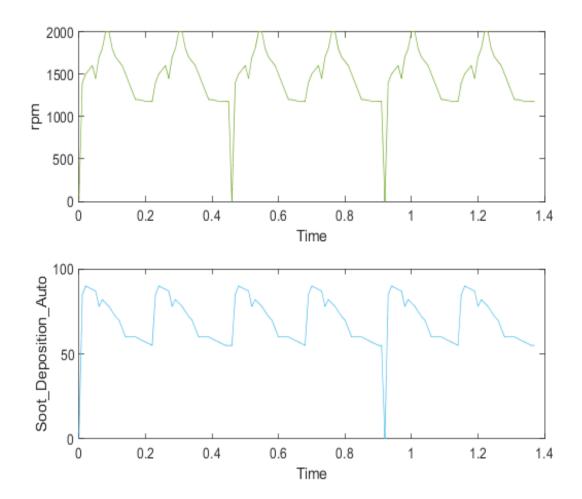
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plo t
Coolant_Temp	int16		Continuous	linear	union	<u>Link</u>
Vehicle_Speed	uint8	 	Continuous	linear	union	Link
rpm	uint16	i 	Continuous	linear	union	<u>Link</u>
Soot_Deposition_Aut	uint8	 	Continuous	linear	union	<u>Link</u>
DPF_Temp_Auto	uint8		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



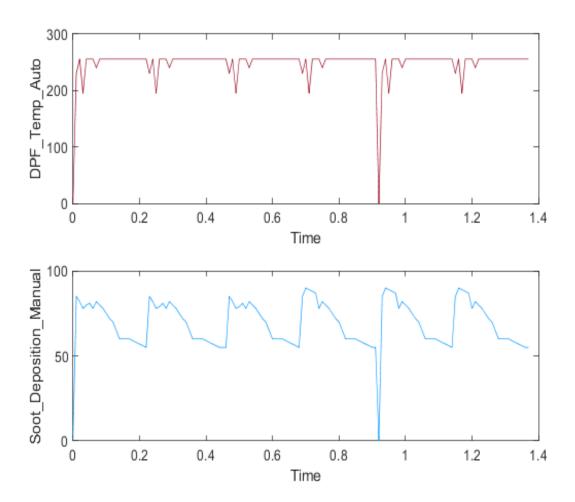
Back to Report SummaryBack to Signal Summary

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



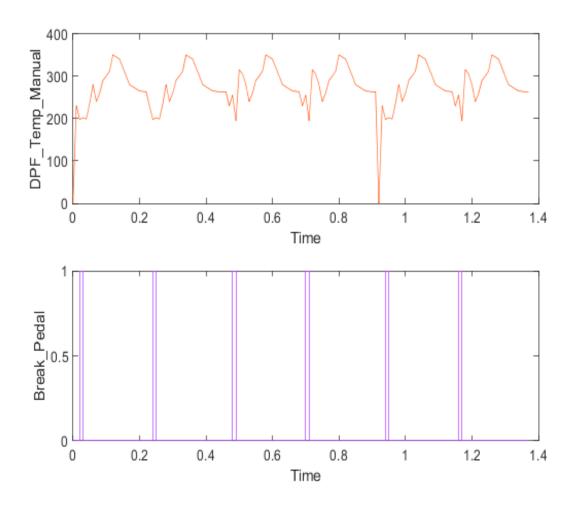
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Name	Data Type	Units	Sample Time	Interp	Sync
DPF_Temp_Auto	uint8	i	Continuous	linear	union
Soot_Deposition_Ma	uint8		Continuous	linear	union



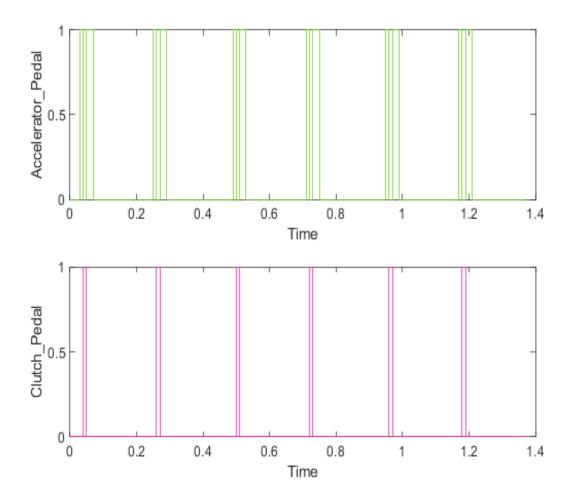
Back to Report SummaryBack to Signal Summary

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



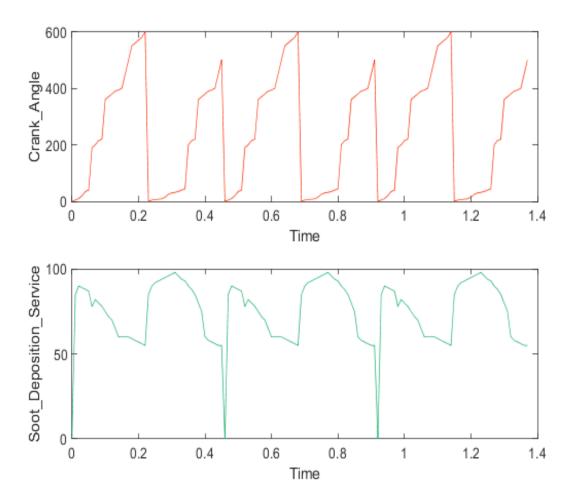
Back to Report SummaryBack to Signal Summary

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



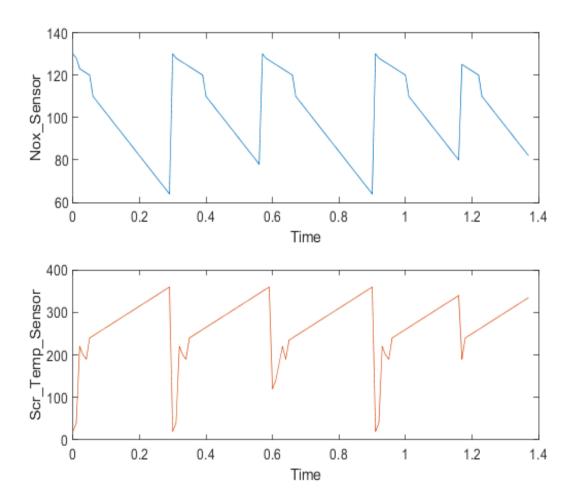
Back to Report SummaryBack to Signal Summary

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



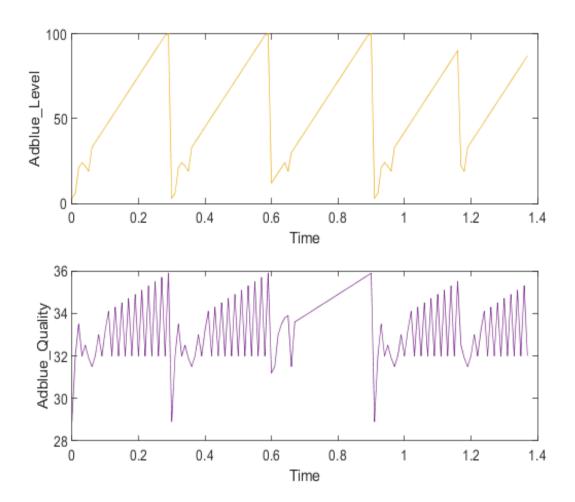
Back to Report SummaryBack to Signal Summary

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



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



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### Simulation 1

# **System Under Test Information**

Model: Eas\_Integrated

Harness: Eas\_Integrated\_Harness

Harness Owner: Eas\_Integrated

Release: Current Simulation Mode: normal

Override SIL or PIL

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

0

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 14:51:12 Simulation Stop Time: 2022-08-04 14:51:13

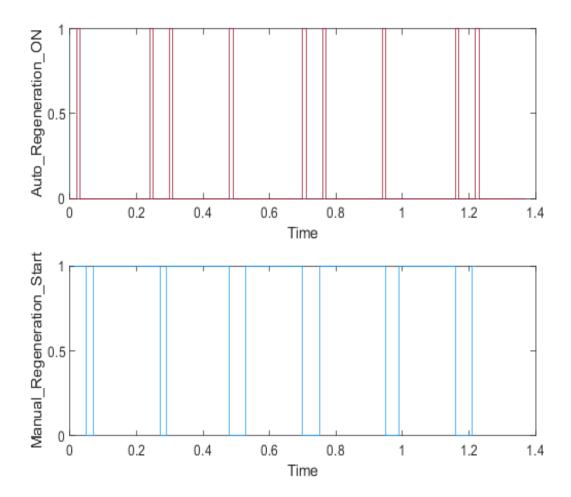
Platform: PCWIN64

#### **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	i 	0.01	zoh	union	<u>Link</u>
Post_Injector3	boolean	i 	0.01	zoh	union	<u>Link</u>
Post_Injector2	boolean	i 	0.01	zoh	union	<u>Link</u>
Press_Regeneration_ Button	boolean	 	0.01	zoh	union	<u>Link</u>

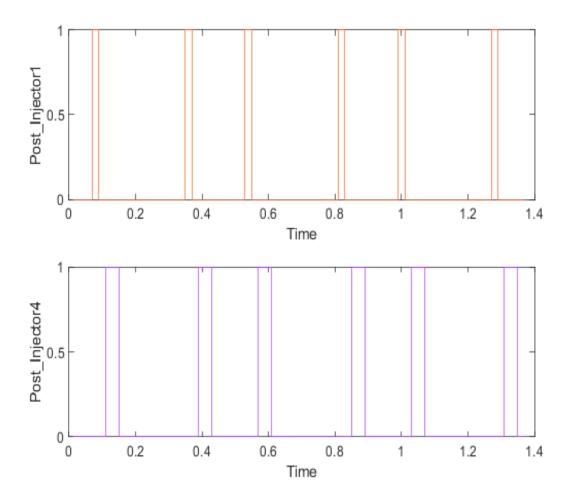
Visit_Workshop_Im mediately	boolean	; ; ;	0.01	zoh	union	<u>Link</u>
Adblue_Injection_Ti	double		0.01	zoh	union	<u>Link</u>
Adblue_level_displa	adblue_capacity	; ; ;	0.01	zoh	union	<u>Link</u>
Auto_Regeneration_ ON	boolean	i ! !	0.01	zoh	union	<u>Link</u>
Press_Regeneration_ Button	boolean		0.01	zoh	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



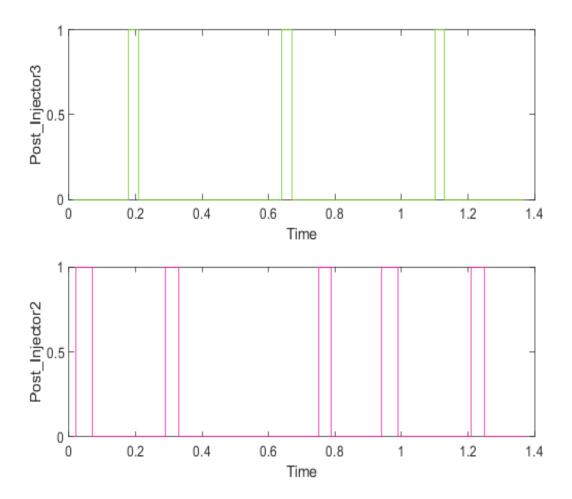
Back to Report SummaryBack to Signal Summary

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



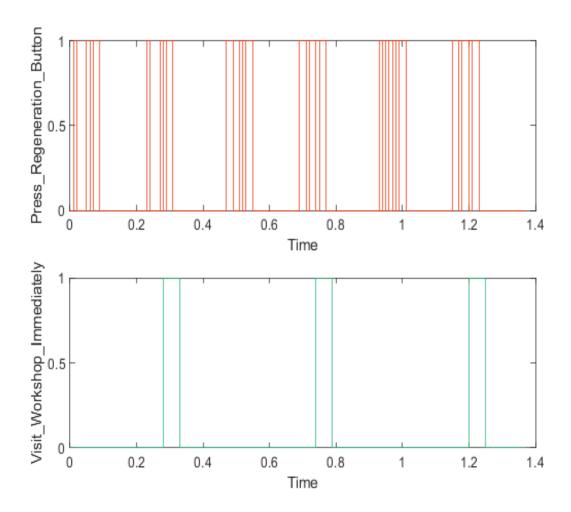
Back to Report SummaryBack to Signal Summary

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



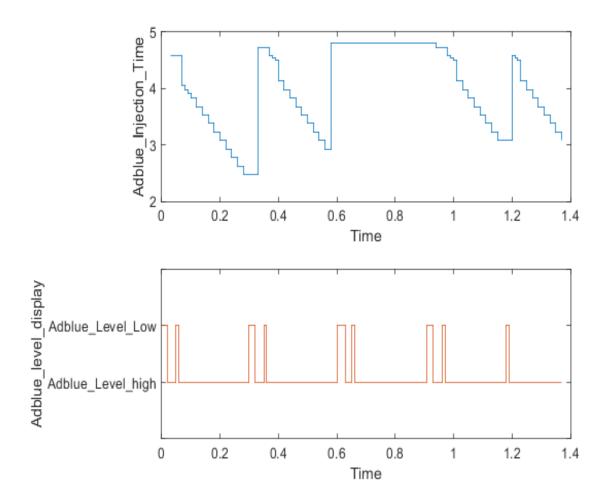
Back to Report SummaryBack to Signal Summary

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



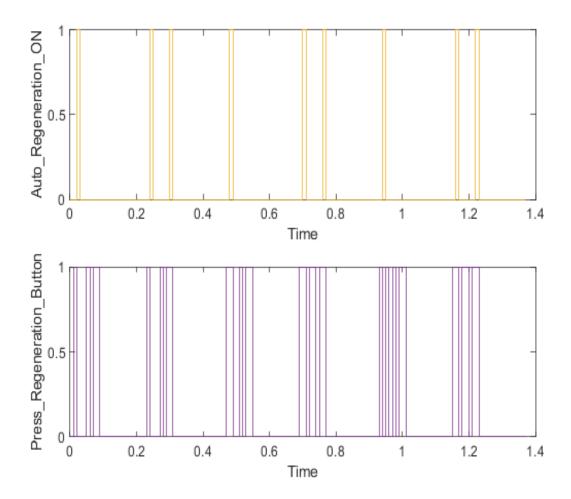
Back to Report SummaryBack to Signal Summary

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



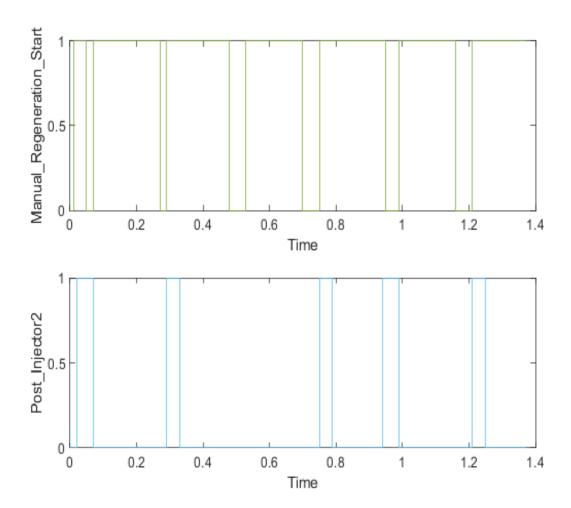
Back to Report SummaryBack to Signal Summary

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



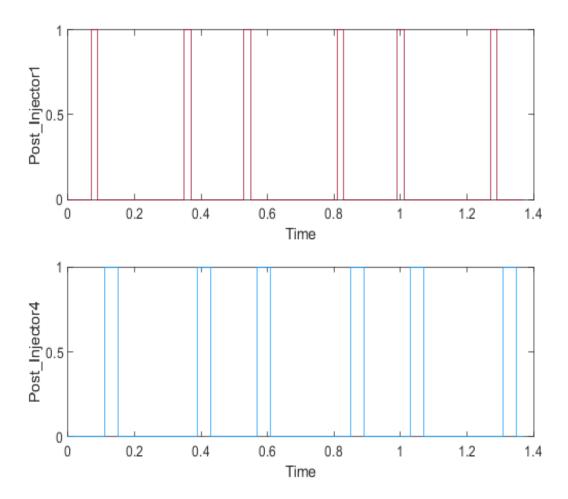
Back to Report SummaryBack to Signal Summary

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



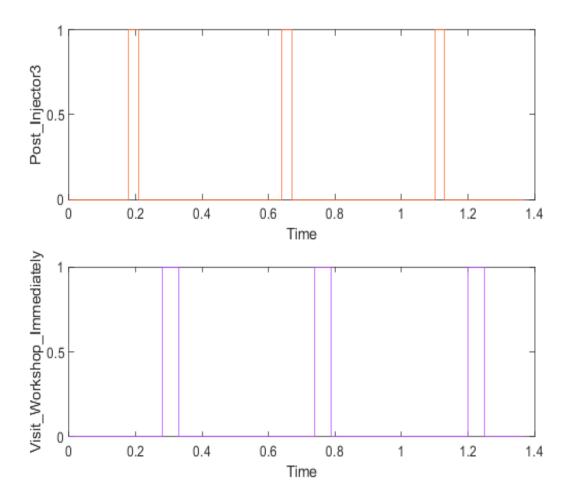
Back to Report SummaryBack to Signal Summary

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



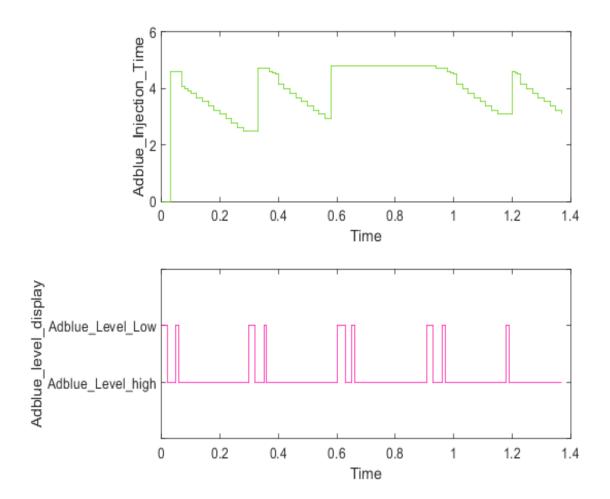
Back to Report SummaryBack to Signal Summary

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



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
Adblue_Injection_Ti me	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.

## **Back to Report Summary**

#### Simulation 2

#### **System Under Test Information**

Model: Eas Integrated

Harness: Eas\_Integrated\_Harness

Harness Owner: Eas\_Integrated

Release: Current

Simulation Mode: software-in-the-loop (sil)

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: 2506699116 3018685255 1210127201 3153507947

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 14:51:15 Simulation Stop Time: 2022-08-04 14:52:37

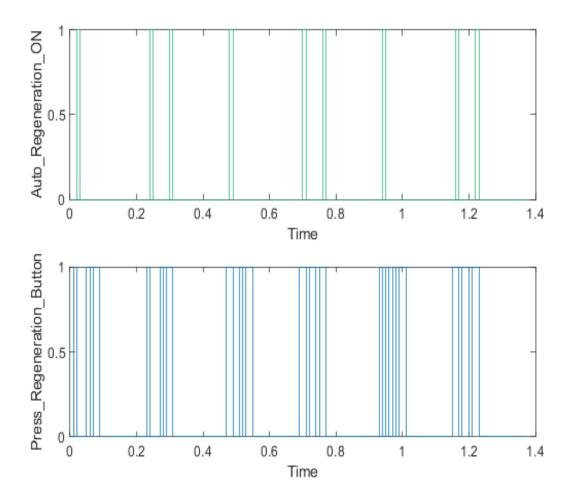
Platform: PCWIN64

### **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>

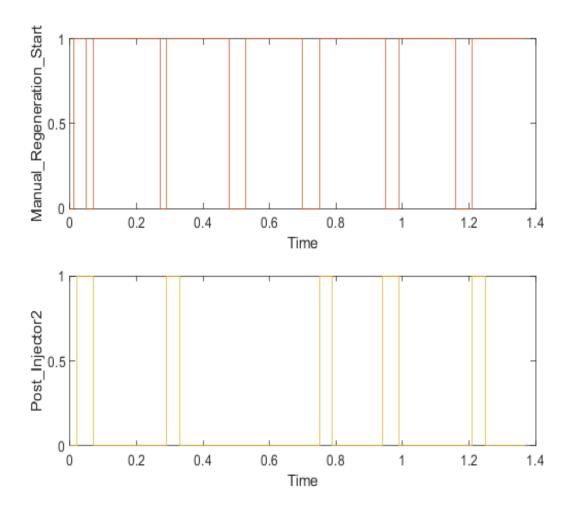
Press_Regeneration_ Button	boolean	0.01	zoh	union	<u>Link</u>
Manual_Regeneration	boolean	0.01	zoh	union	<u>Link</u>
Post_Injector2	boolean	0.01	zoh	union	<u>Link</u>
Post_Injector1	boolean	0.01	zoh	union	<u>Link</u>
Post_Injector4	boolean	0.01	zoh	union	<u>Link</u>
Post_Injector3	boolean	0.01	zoh	union	<u>Link</u>
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	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	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>
Visit_Workshop_Im mediately	boolean	0.01	zoh	union	<u>Link</u>
Adblue_Injection_Ti me	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
Press_Regeneration_ Button	boolean		0.01	zoh	union



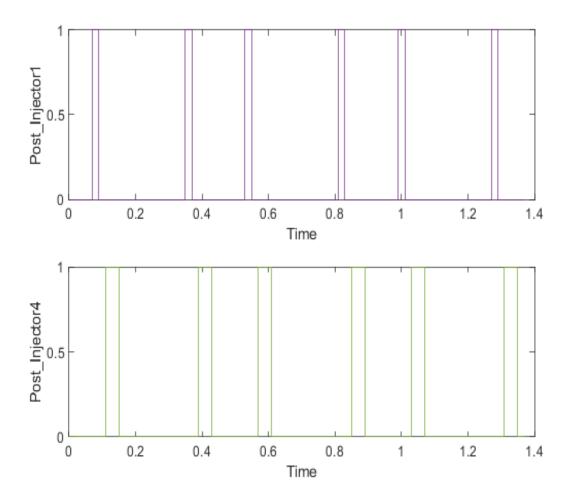
Back to Report SummaryBack to Signal Summary

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



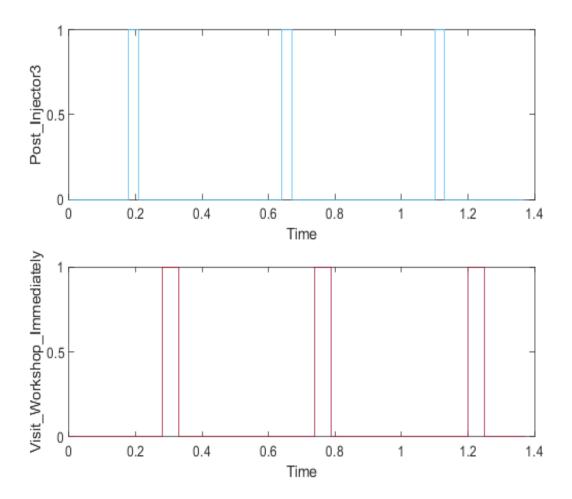
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Name	Data Type	Units	Sample Time	Interp	Sync
Post_Injector1	boolean		0.01	zoh	union
Post_Injector4	boolean		0.01	zoh	union



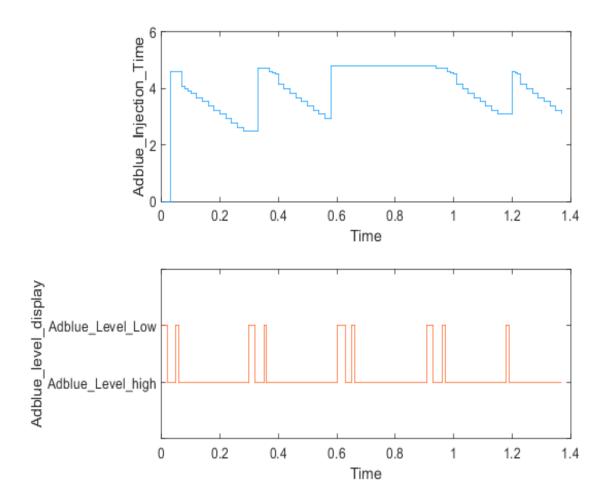
Back to Report SummaryBack to Signal Summary

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



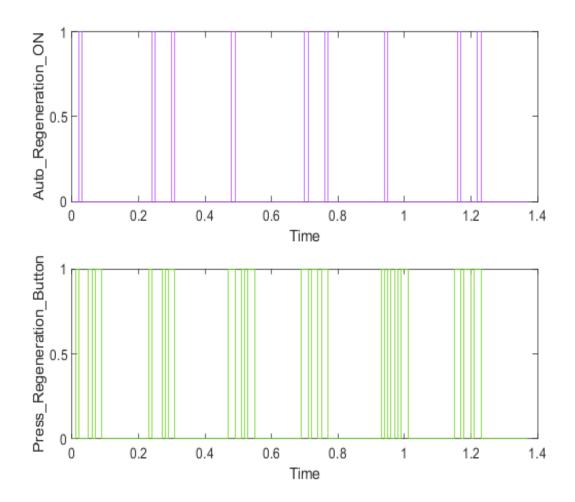
Back to Report SummaryBack to Signal Summary

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



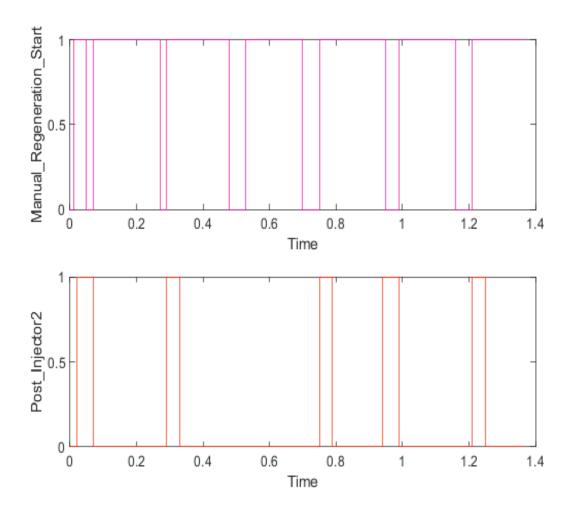
Back to Report SummaryBack to Signal Summary

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



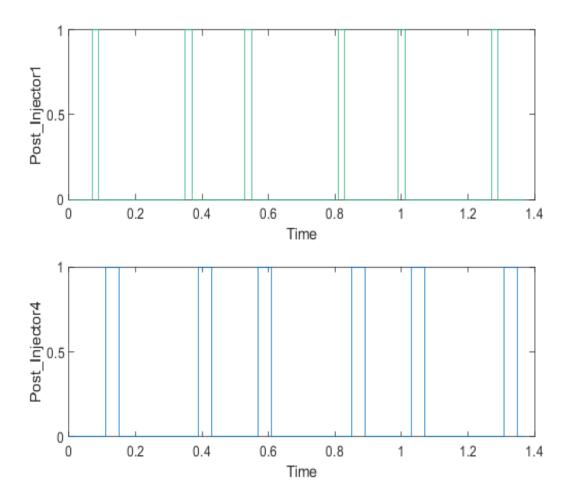
Back to Report SummaryBack to Signal Summary

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



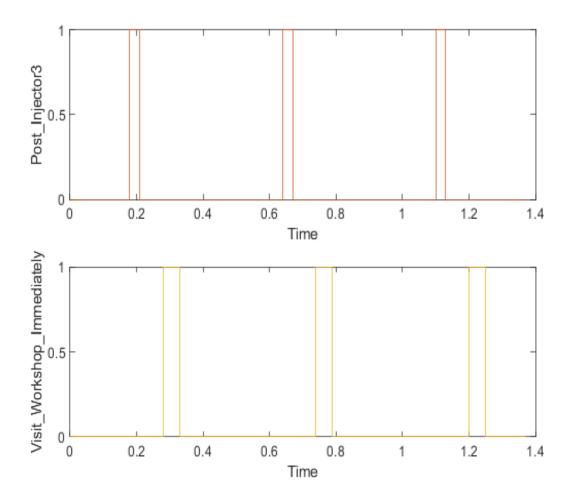
Back to Report SummaryBack to Signal Summary

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



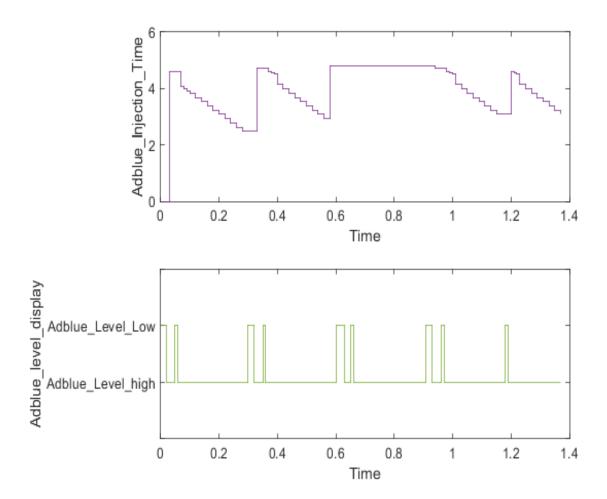
Back to Report SummaryBack to Signal Summary

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



Back to Report SummaryBack to Signal Summary

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



Back to Report SummaryBack to Signal Summary

#### Simulation Logs:

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

Insufficient space for computing symbol names in model '<u>Eas\_Integrated</u>'. The maximum identifier length '31' does not provide sufficient space to make symbol names unique using the symbol format string in 'Subsystem

methods'. This is required when using model reference. Consider increasing the maximum identifier length. To eliminate this message enter the command set\_param('<u>Eas\_Integrated</u>', 'ModelReferenceSymbolNameMessage', 'none') at the MATLAB prompt.

Insufficient space for computing symbol names in model 'Eas Integrated'. The maximum identifier length '31' does not provide sufficient space to make symbol names unique using the symbol format string in 'Global types'. This is required when using model reference. Consider increasing the maximum identifier length. To eliminate this message enter the command set\_param('Eas Integrated', 'ModelReferenceSymbolNameMessage', 'none') at the MATLAB prompt.

The model Web view is not generated during simulation. When simulation is finished, use the following command to regenerate the report. rtw.report.generate('Eas\_Integrated')

**Back to Report Summary**