		Test Protocol			
Test Case ID	Test Case Description	Test Case Steps	Expected Result	Actual Result	Pass/Fail
		MCAL Module			
		GPIO Driver			
TC_GPIO_001	Test GPIO_init	create struct that holds all pin configs and send it to DIO_init_pin(&strucct)	the pin initializes correctly	Matches Expected Result	Pass
TC_GPIO_002	Test GPIO_write	send port and pin and level to GPIO_write(port,pin,level)	the level is set on pin correctly	Matches Expected Result	Pass
TC_GPIO_003	Test GPIO_toggle	send port and pin to GPIO_togge(port,pin)	the status of pin is toggled correcty	Matches Expected Result	Pass
TC_GPIO_004	Test GPIO_read	send port and pin and address of variable to GPIO_read(port,pin,&value)	the status stored in variable correctly	Matches Expected Result	Pass
TC_GPIO_005	Test GPIO_enable_interrupt	send port and pin to GPIO_enable_interrupt(port,pin)	the interrupt enabled correctly	Matches Expected Result	Pass
TC_GPIO_006	Test GPIO_disable_interrupt	send port and pin to GPIO_disable_interrupt(port,pin)	the interrupt ddisabled correctly	Matches Expected Result	Pass
		HAL Module			
Button Driver					
TC_BTN_001	Intialize Push Button	Call BUTTON_init To Intialize Push Button	All Configration Intialize Succesful	Matches Expected Result	Pass
TC_BTN_002	Get Push Button Status	Call BUTTON_read To Get Its Status Pressed Or Relased	Push Button Status Returned Succesful	Matches Expected Result	Pass
		LED Driver			
TC_LED_001	Test LED_init	call LED_init	all LEDS initialized correctly	Matches Expected Result	Pass
TC_LED_002	Test LED_on	call LED_on and pass led id	the led turned on	Matches Expected Result	Pass
TC_LED_003	Test LED_off	Call LED_off and pass led id	the led turned off	Matches Expected Result	Pass
TC_LED_004	Test LED_toggle	Call LED_toggle and pass led id	the led toggled	Matches Expected Result	Pass
		Application			
APP					
TC_APP_001	initialize all Hal Modules	Call led_init and button_init	all modules initializes correctly	Matches Expected Result	Pass
TC_APP_002	Run main Logic of application	implement main logic in super loop	app works fine and covered all known cases	Matches Expected Result	Pass
		User Stories			
_RGBV1_APP_001	The RGB LED is OFF initially	power up the system	The RGB LED is OFF initially	Matches Expected Result	Pass
_RGBV1_APP_002	The RED LED is on	first press of sw1	The RED LED is on correctly	Matches Expected Result	Pass
_RGBV1_APP_003	The GREEN LED is on	second press of sw1	The GREEN LED is on correctly	Matches Expected Result	Pass
_RGBV1_APP_004	The Blue LED is on	third press of sw1	The BLUE LED is on correctly	Matches Expected Result	Pass
_RGBV1_APP_005	The RGB LEDS are on	fourth press of sw1	The RGB LEDS are on correctly	Matches Expected Result	Pass
_RGBV1_APP_006	The RGB LEDS are off	fifth press of sw1	The RGB LEDS are off correctly	Matches Expected Result	Pass
_RGBV1_APP_007	Repeated from TC_APP_002	sixth press of sw1	The RED LED is on correctly - sequence reapeted forever	Matches Expected Result	Pass