

Power Supply Test Cases	Expected Output	Results	Notes
Check output voltage and current for power supply with $V_{in} = 5V$	3.3 V and 600 mA	Passed	
Check output voltage in full system for $V_{in} = 5V$	3.3V and 600 mA	Passed	
Successfully provide external power to pcb	ESP32 program runs, MSP430 can be flashed	Passed	
Extended Run Test Cases			
Run system with sensors on for 24 hours	No interruptions	Passed	
Run ESP32 subsystem for 24 hours	No interruptions	Passed	

PCB Test Cases	Expected Output	Results	Notes
MSP430 flash test	MSP430 can be flashed using LaunchPad	Passed	Requires external power due to USB port power constraints
Buttons test	LEDs activate when button is pressed	Passed	
LED test	LED activate when MSP430 port is active	Passed	Replaced bad LED, passed
Sensor test	Seeed sensors give same values on PCB as BoosterPack	Passed	

Software Test Cases	Expected Output	Results	Notes
Pairing button software example	Pairing button functions properly	Passed	
Sensor Software Test	Sensor data output to webpage	Passed	

App sends data to Azure correctly	Data is received by Azure at the correct port, time, and telemetry	Passed	
App receives accurate sensor data	App shows data that is accurate currently and is continuously updated	Passed	
App receives data in correct port	Data for each sensor is shown in the corresponding port and is not ever in a separate port	Passed	

Command Test Cases			
Able to set SSID at runtime	Connects to WiFi properly	Passed	
Able to set connection string at runtime	Connects to Azure	Passed	
Wifi telemetry command works	Send data to Azure when in Wifi mode	Passed	
Bluetooth telemetry command works	Send data to app when in BLE mode	Passed	