

Team #:	P16104	Team Name:	Microfluidic Spectroscopy in CubeSats
Date:	5/8/2016 16:57	Document Owner:	James Lewis
Revision #:	1		

Subsystem/ Function/ Feature Name: Transmit and Download Speed of Data

Date of Test:

Performed By _____ James Lewis and Matthew Glazer _____

Concluded Condition of meeting Engineering Specification: **PASS**

I. TESTING SPECIFICATION

Specification Number	Importance	Source	Function	Specification (Metric)	Unit of Measure	Max Value	Min Value	Comments/Status
ER 15	9	PRP	System	Transmission	Baud	4800	9600	

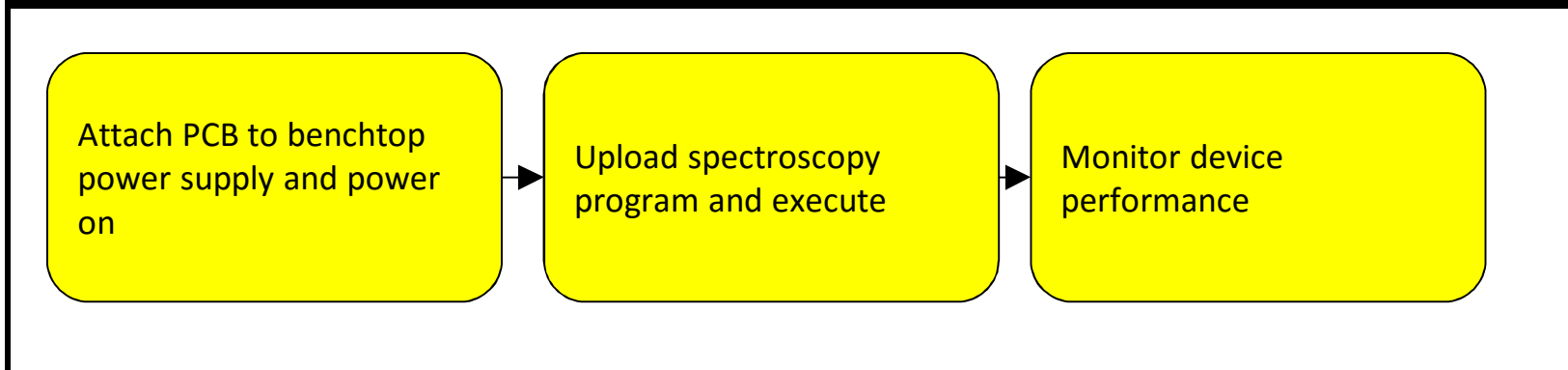
II. EQUIPMENT REQUIRED

Specification Number	Equipment or Instrumentation required
ER 15	Benchtop power supply, photodiode w/ complimentary circuitry, custom fixture, laptop

III. DATA COLLECTION STRATEGY

Specification Number	Data acquisition strategy
ER 15	This test is designed to gauge if the microcontroller can operate at a particular transmission speed

III. TESTING FLOWCHART



IV. RAW DATA ACQUISITION

V. RESULTS

The microcontroller was able to hold and execute the program running at a 9600 Baud rate

VI. CONCLUS

The test was successful since the microcontroller communicated successfully with the laptop when both communication lines were operating at 9600 Baud