

Team #:	P16104	Team Name:	Microfluidic Spectroscopy in Cubesats
Date:	2/3/2016 20:06	Document Owner:	
Revision #:	1		

Subsystem/ Function/ Feature Name:	Photodiode Sensitivity Testing
Date of Test:	
Performed By:	James Lewis and Matthew Glazer
Tested By:	James Lewis and Matthew Glazer

Concluded Condition of meeting Engineering Specification: _____

I. TESTING SPECIFICATION

Specification Number	Importance	Source	Function	Specification (Metric)	Unit of Measur	Margina I Value	Ideal Value	Comments/Status
S2	9	PRP	System	Signal Detection	V	1.5+-0.5		

II. EQUIPMENT REQUIRED

Specification Number	Equipment or Instrumentation required
S2	Benchtop power supply, photodiode w/ complimentary circuitry, custom fixture, laptop

III. DATA COLLECTION STRATEGY

Specification Number	Data acquisition strategy
S2	The goal of this test is to amplify the output of the UV photodetector to voltage levels that the microcontroller can detect. This will be accomplished by use of an op amp to increase the signal strength of the photodetector.

III. TESTING FLOWCHART

