**System Test Design Specification**

1. **Purpose**

This document describes in more detail than the STD-2-2014-05-15 how the Java packages of PlasmaGraph are going to be tested.

1. **Outline**
   1. **Test Design Specification Identifier**

TDS-03-01 2014-05-22

* 1. **Features to be Tested**

1. Automated Test Suit

A.1 HeaderDataTest.

A.2 InterpolatorTest.

A.3 MATTest.

A.4 OutlierSearchTest.

A.5 TemplateTest.

* 1. **Approach Refinements**
     1. **Testing Technique**

All features specified in section 2.2 of this document will be tested using the “White Box” testing technique. This means that the testers will have access to the system’s architecture and source code. The testers will interact with the system through Eclipse integrated development environment which provides comprehensive facilities to computer programmer.

The white box testing technique was chosen for the following reasons:

* These were the first set of tests and because the tester has knowledge of the source code it becomes possible to determine which data can help in further testing.
  + 1. **Methods for Results Analysis**

The analysis for this test case will be done using the output produced by the JUnit console. This output includes the following information:

* + Segments of code being tested.
  + Segments of code that produced errors.
  + Segments of code that produced failures.
  1. **Features Pass/Fail Criteria**

The only requirement to pass this test is that the output produced by JUnit does not present any failures.