**Test instructions with the peak workspace**

**Context:**

In order to provide the user with more quantitative information in the SplatterPlot mode, we want to display peak information in form of a table and highlight a certain peak based on selection from that table.

**Required workspaces:**

The required workspaces are :

EllipsoidalWS (880MB)

PeakWS1 (27MB)

PeakWS2 (27MB)

I will give these workspaces to you. Please contact me at anton.piccardo-selg@stfc.ac.uk

**Single peak workspace test**

1. Start the VSI
2. Load the ellipsoidalWS into the VSI
3. Switch to SplatterPlot mode
   1. Confirm that the peak button is disabled
4. Load the PeakWS1 into the VSI
   1. Confirm that the “Peaks” button is enabled
5. Press the “Peaks” button and select “Show all peaks in table”
   1. Confirm that a “MDPeaksFilter” is created and added after the “MDScatterPlot” Filter
   2. Confirm that the table is culled and only data close to the peaks is availbale
   3. Confirm that the point size of the data is 4
   4. Confirm that a table is created below the rendered image
6. Select a row in the table and click on it
   1. Confirm that the view is zoomed onto a peak
   2. Confirm that a new source “SinglePeakMarkerSource” is created
   3. Confirm that there is a small ball in the centre of the peak
   4. Confirm that the rotation centre is set to the centre of the selected peak
7. Select a different peak from the table
   1. Confirm that the view changes to the new peak.
8. Delete the peak source from the VSI
   1. Confirm that peak source table has vanished.
   2. Confirm that the peak filter was deleted.
   3. Confirm that the peak marker was deleted.
9. Close the VSI

**Two peak workspaces test**

1. Start the VSI
2. Load the ellipsoidalWS into the VSI
3. Switch to the SplatterPlot mode
4. Load the PeakWS1 and PeakWS2 into the VSI
5. Press the “Peaks” button and select “Show all peaks in table”
   1. Confirm that two tabs with two tables are present
   2. Confirm that the title of each tab contains the workspace name
6. In the first tab press on a row
   1. Confirm that the view zooms to the peak
   2. Confirm that a peak marker is produced
   3. Confirm that the center of rotation is set to the zoomed peak.
7. Press a row in the second tab
   1. Confirm that the view zooms to the peak
8. Delete a peak source
   1. Confirm that the tab vanishes
9. Load the peak workspace which is already loaded
   1. Confirm that a warning appears regarding reloading a peak workspace
10. Load the deleted peak workspace
    1. Confirm that a second tab appears
11. On the “Peaks” button, press “Remove table”
    1. Confirm that the “MDPeaksFilter”, the “SinglePeaksMarkerSource” and the tabs are removed
12. Delete both peak sources
    1. Confirm that the “Peaks” button is disabled