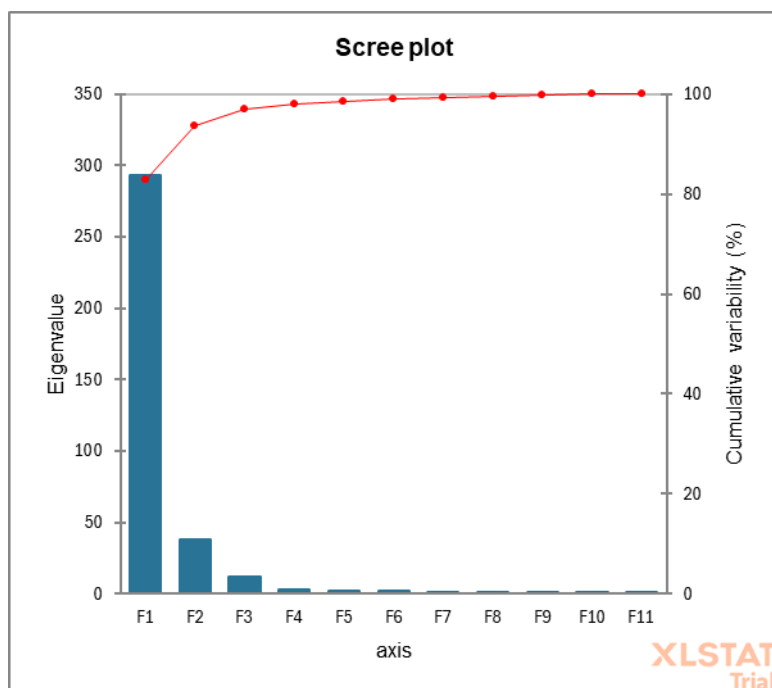
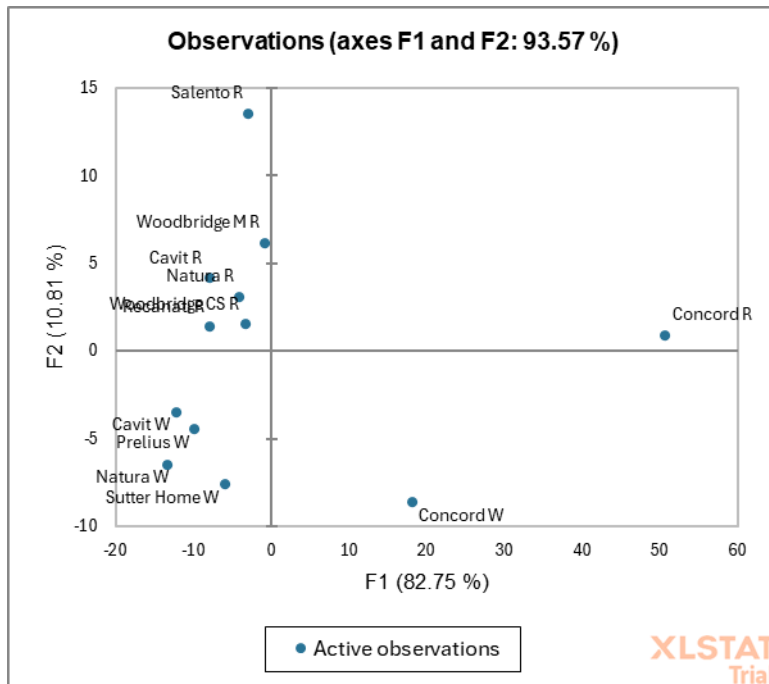


Reagent Name	Reqd. PPE	Critical Safety Hazards	Reactivity	Disposal
Citric acid	Standard	None	Not Reactive	Non-hazardous trash
Glucose syrup	Standard	None	Not Reactive	Non-hazardous trash
Gelatin	Standard	None	Not Reactive	Non-hazardous trash
Pectin	Standard	None	Not Reactive	Non-hazardous trash
Sucrose	Standard	None	Not Reactive	Non-hazardous trash

1. PCA is appropriate for this dataset. The first three principal components account for 97.003% of the variability, which is above the 80% threshold.



2. It appears that red/white corresponds to F2 being positive or negative respectively. Concord R and Concord W are substantial outliers on the F1 axis, having strongly positive scores, whereas the other wines have slightly negative scores.



3. Performing PCA on F1 and F3 does not appear to generate new trends. More information on the wines would be necessary to understand what F3 represents. No new clustering patterns appear as a result of doing PCA on F1 and F3 or F2 and F3.

