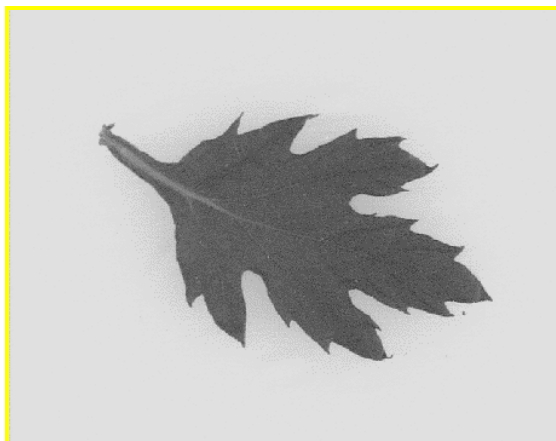
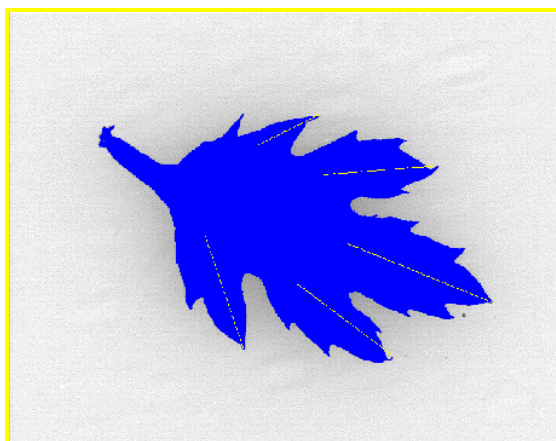


## LEAF SHAPE ANALYSIS



**Figure 1:** Original image.



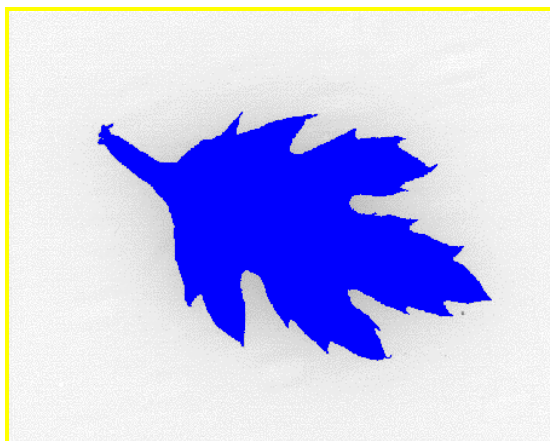
**Figure 3:** A "Pause - Edit Line" instruction was used to identify specific objects to be measured. A length measurement was performed on the lines. Several shape measurements were also performed on the entire leaf (blue bitplane).

### Sample Description

One domestic fern leaf.

### Purpose of Analysis

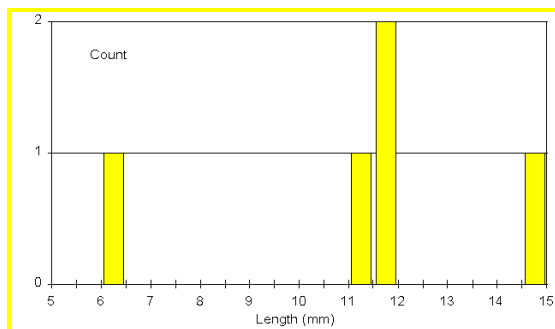
Demonstrate the ability of the image analyzer to measure the shape of a leaf.



**Figure 2:** Blue binarization by Thresholding of the original image. Artifacts were removed from the blue bitplane with a Trap binary instruction.

### Results Summary

	Lobe Length (mm)
Minimum	6.306
Maximum	14.865
Mean	11.134
Standard Deviation	3.075



**Figure 4:** Leaf and vein network area percentage over the total area.

### Apparatus

#### Image Analysis

System: Clemex IMPAK Software

Camera: Sony XC-77CE

Lens: Computar zoom lens (18-108 / 2.5)

Illumination: Logan Desk Top Light Box

Macro Stand: Kaiser (Germany)