

# PORTABLE CONTACT ANGLE ANALYSER PGX

The PGX is a compact instrument that measures wetting and absorption on virtually any size or shape surface without the need to cut sample strips required by other contact angle testers.

This enables the surface testing of almost any 3-dimensional product including :

- a table top
- the roof or bumper of a car
- drywall board
- a glass bottle
- a metal can

The PGX provides automated testing.

Simply place the instrument on top of your specimen and press a button. The internal pump delivers a precise droplet, which is automatically delivered on the test surface. The built-in camera captures a video sequence of the liquid droplet and results are presented as static contact angle or dynamic wetting and liquid penetration as a function of time.

These results are invaluable for evaluating and controlling a wide range of processes including adhesion, corona treatment, absorption, surface contamination, surface sizing, printability and wettability.

## PGX computer control

The PGX offers the ease of computer-controlled testing, analysis and reporting. Simply connect the PGX to a standard laptop or PC with an USB interface and start the software.

The PGX receives power from the USB connection and a live video image will appear in the computer monitor.



*The PGX provides contact angle of any size specimen*

## Features

- Measurement of :
  - **Static contact angles**  
wetting of non-sorptive surfaces
  - **Dynamic contact angles**  
wetting, absorption and spreading as a function of time
  - **Surface tension & surface free energy**  
evaluates the probing liquid from a pendant drop
- Lightweight, portable unit
- Small foot print : 55 x 90 mm
- Simple, accurate calibration routine
- Automatic droplet application
- Integrated camera : captures 15 images/sec
- Built-in pump : adjustable in 0.5 µl steps
- Easy to install - no hardware ! Runs on most PC's and laptops (USB)
- User-friendly software for Windows 98/ME/2000/XP (with dialogue in your own language)

*Let the PGX measuring head X-ceed your X-pectations*

## Physical specifications

### Dimensions

9 x 5.5 x 9 cm (LxWxH)

### Net Weight

400 grams

## Standards

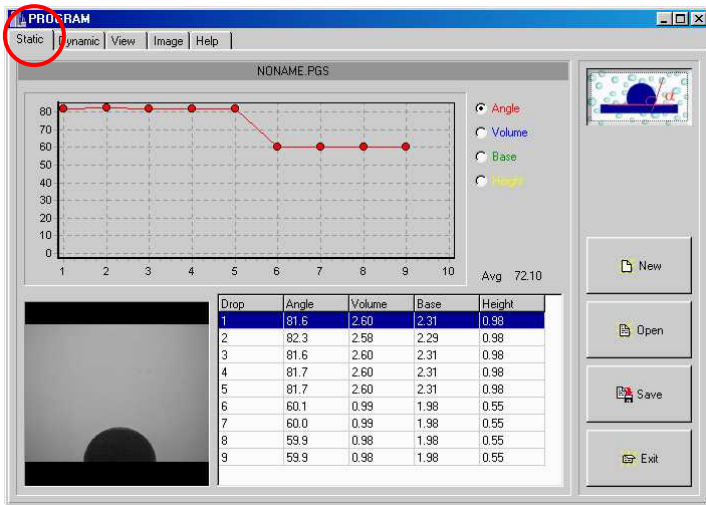
TAPPI T-458, ASTM D-724, D-5946

## Applications

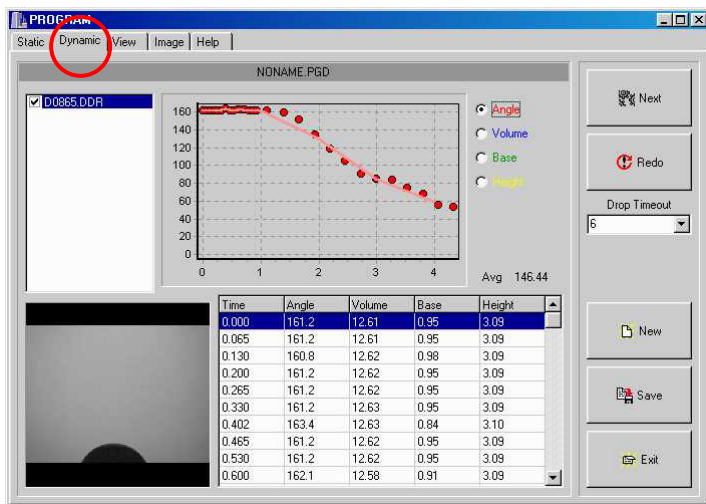
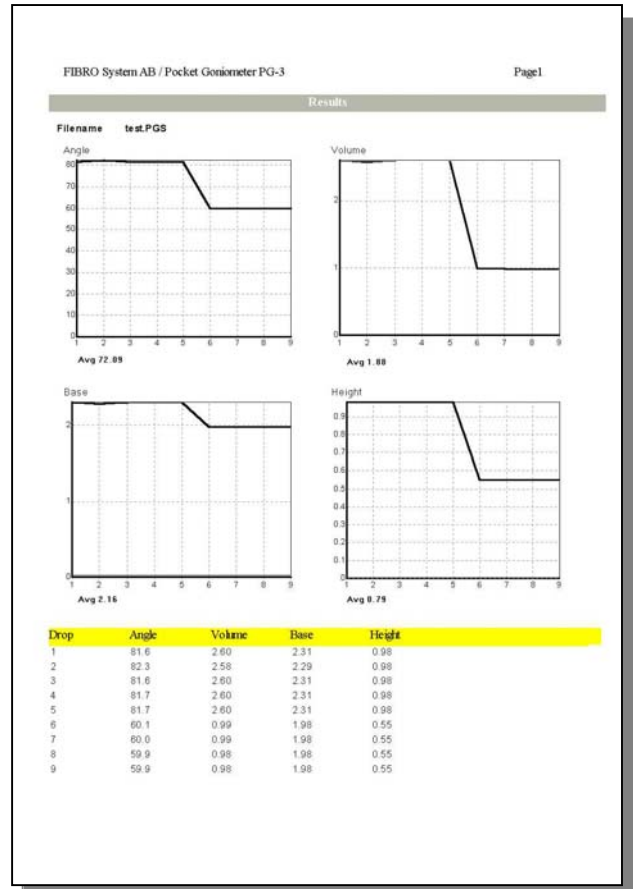
Printing - Agriculture - Paper - Detergents - Corona treatment - Coating - Pharmacy - Board - Inks - Flame treatment - Adhesion - Biomedicine - Wood - Oils - Surface sizing - Cleaning - Papermaking - Metals - Surfactants - Surface tension - Absorption - Cosmetics - Plastic - Water - Surface contamination - Wettability - Dentistry - Textile - Solvents - Surface energy



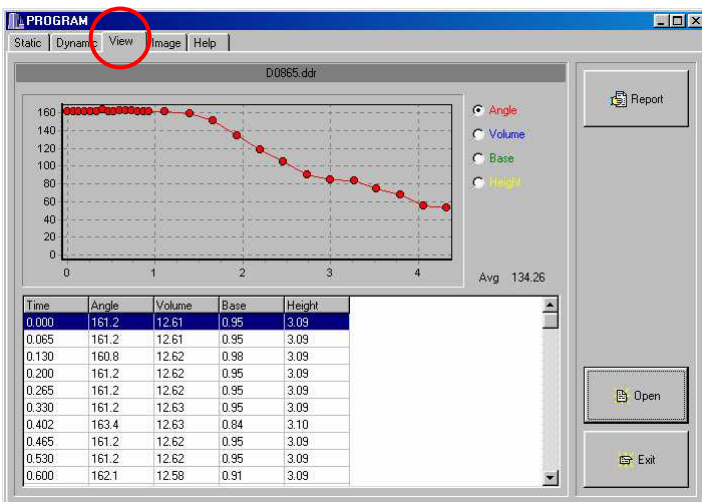
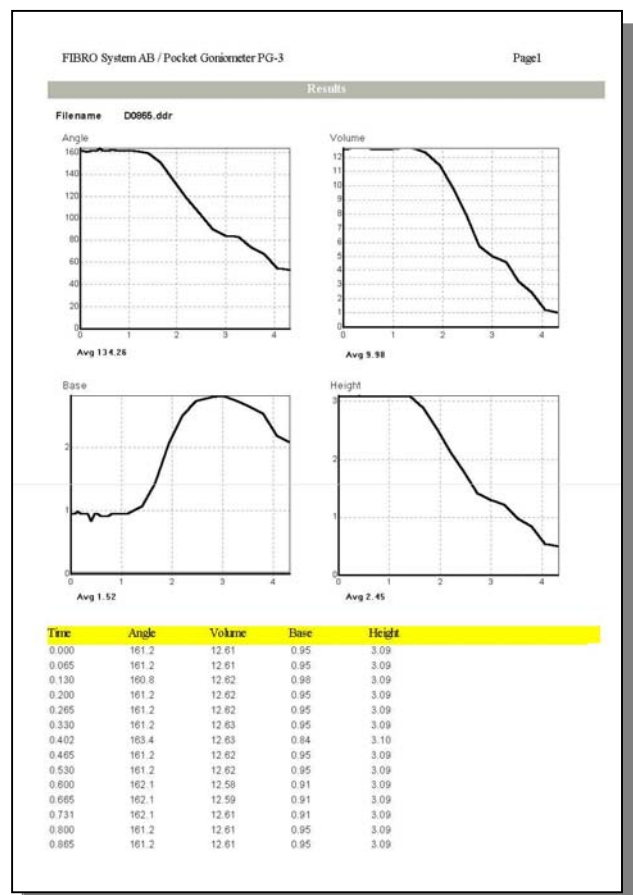
Agent



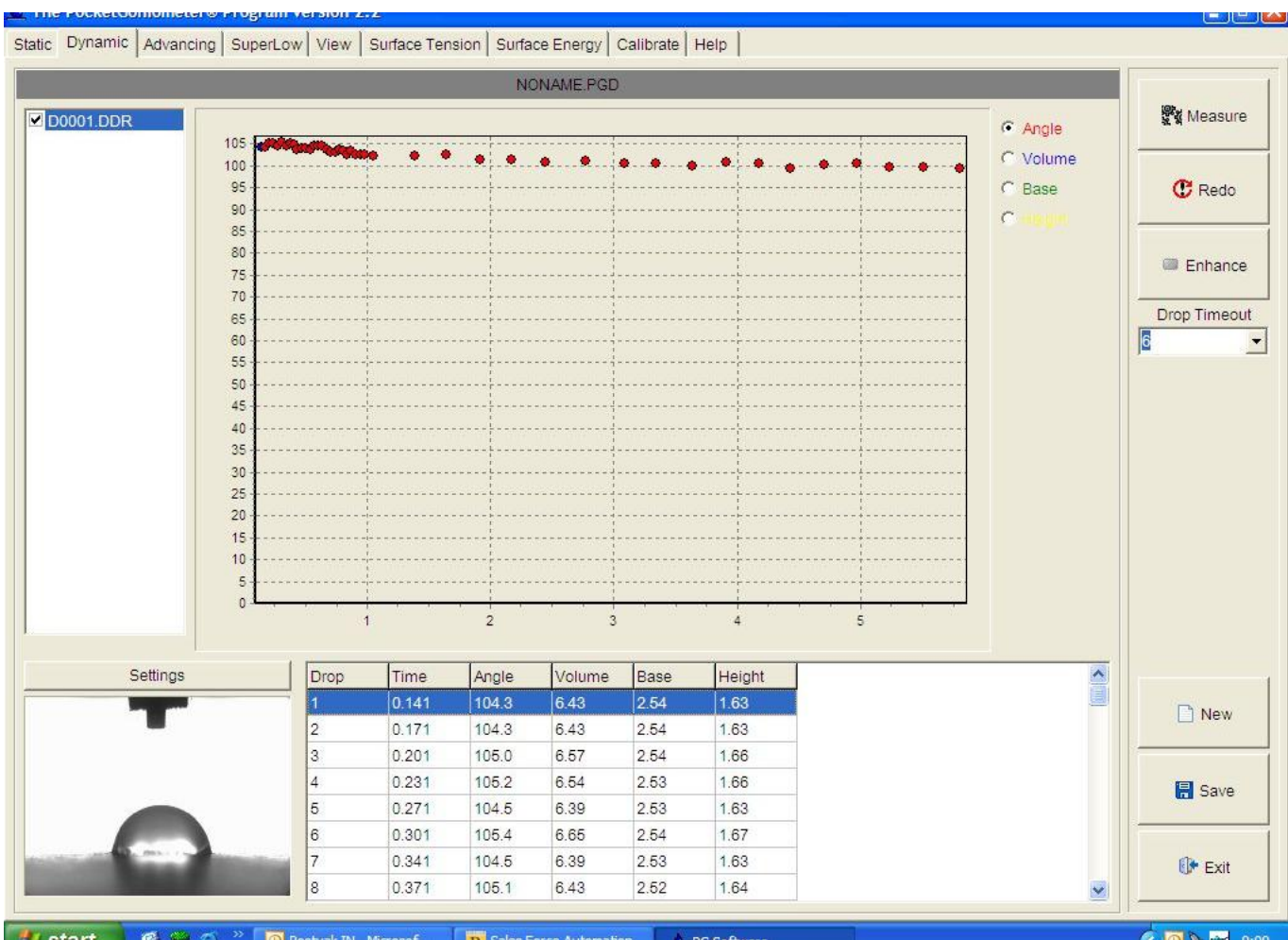
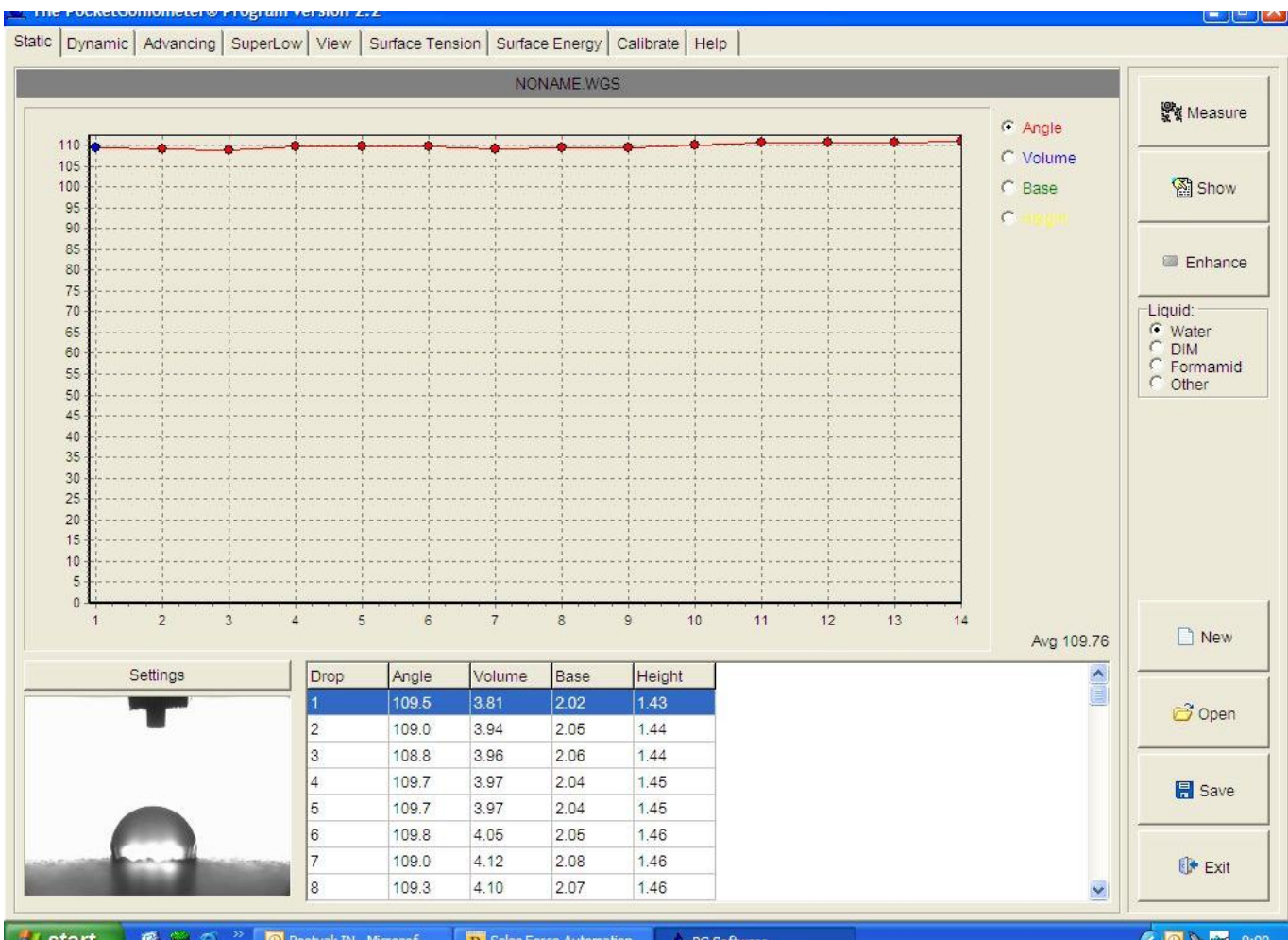
1. Static results from 5 + 4 droplets on two solid substrates

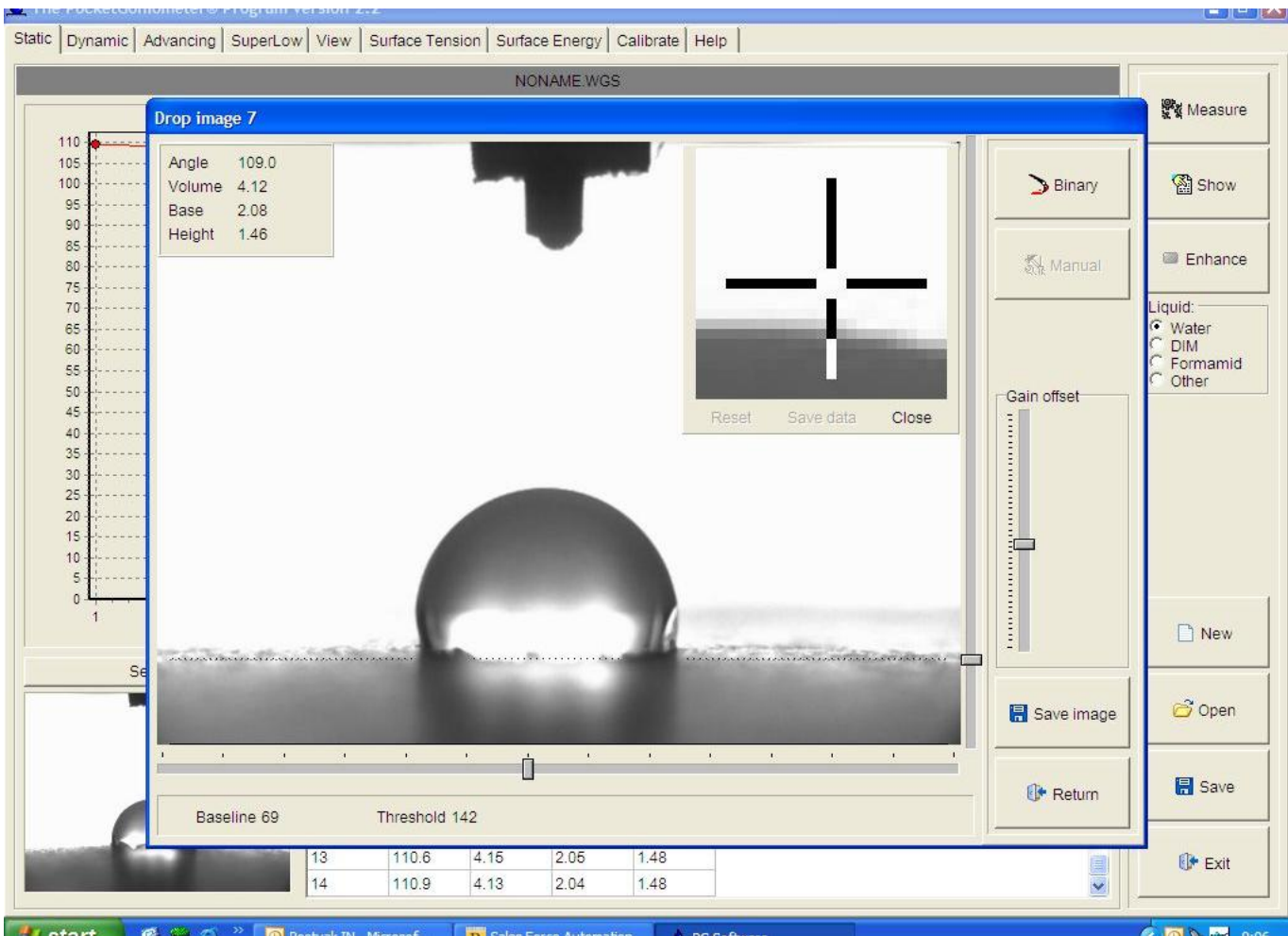
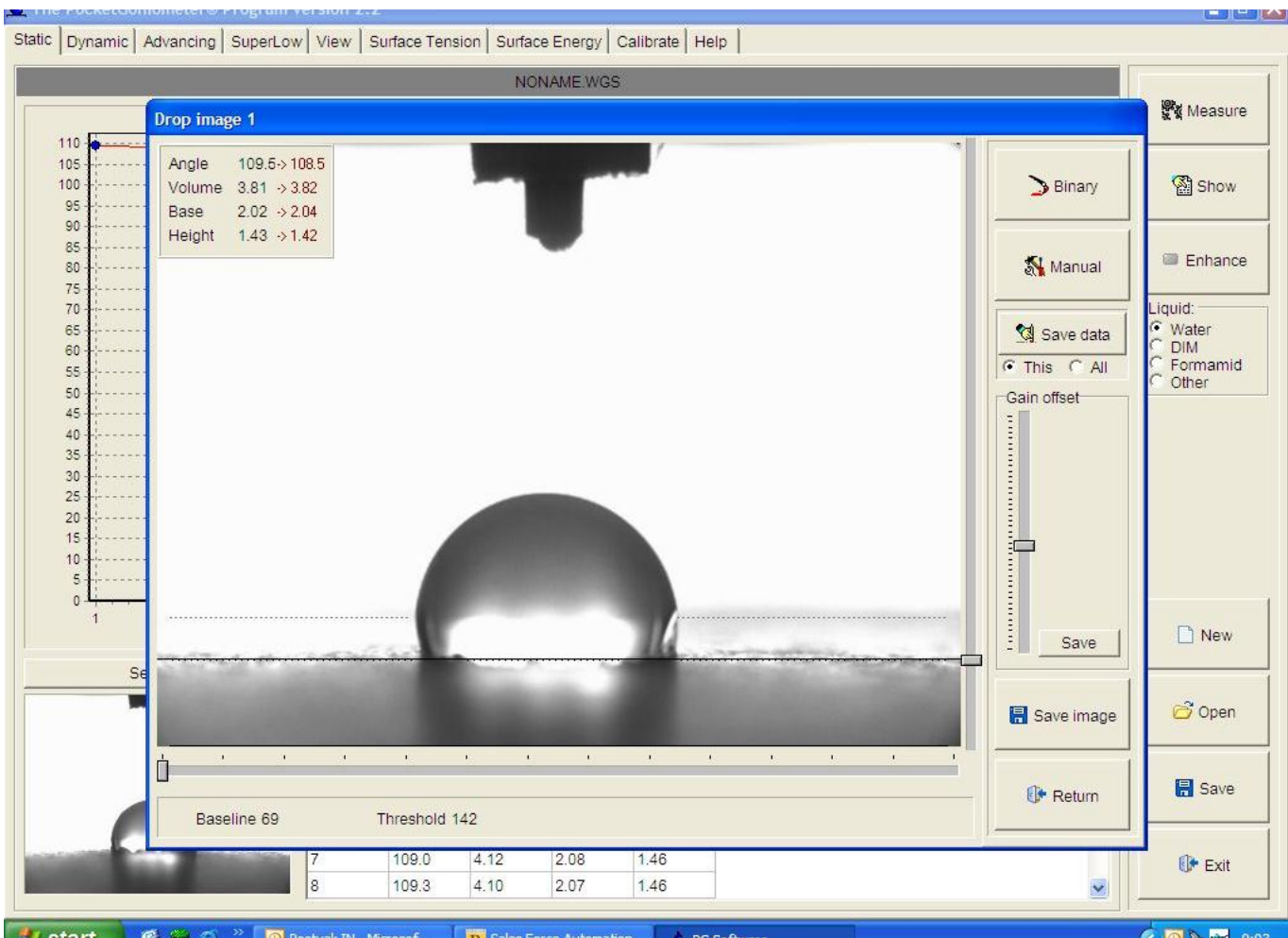


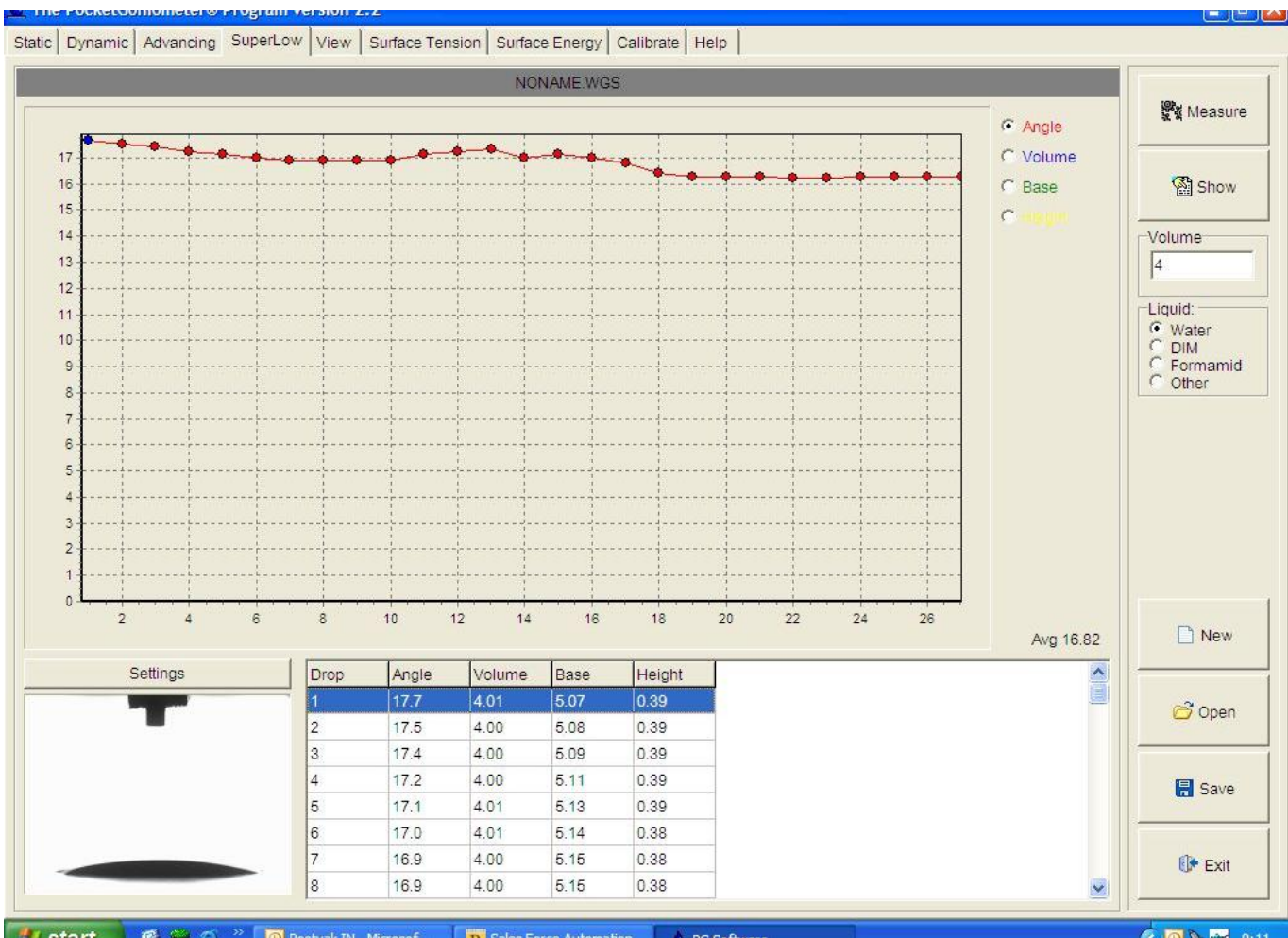
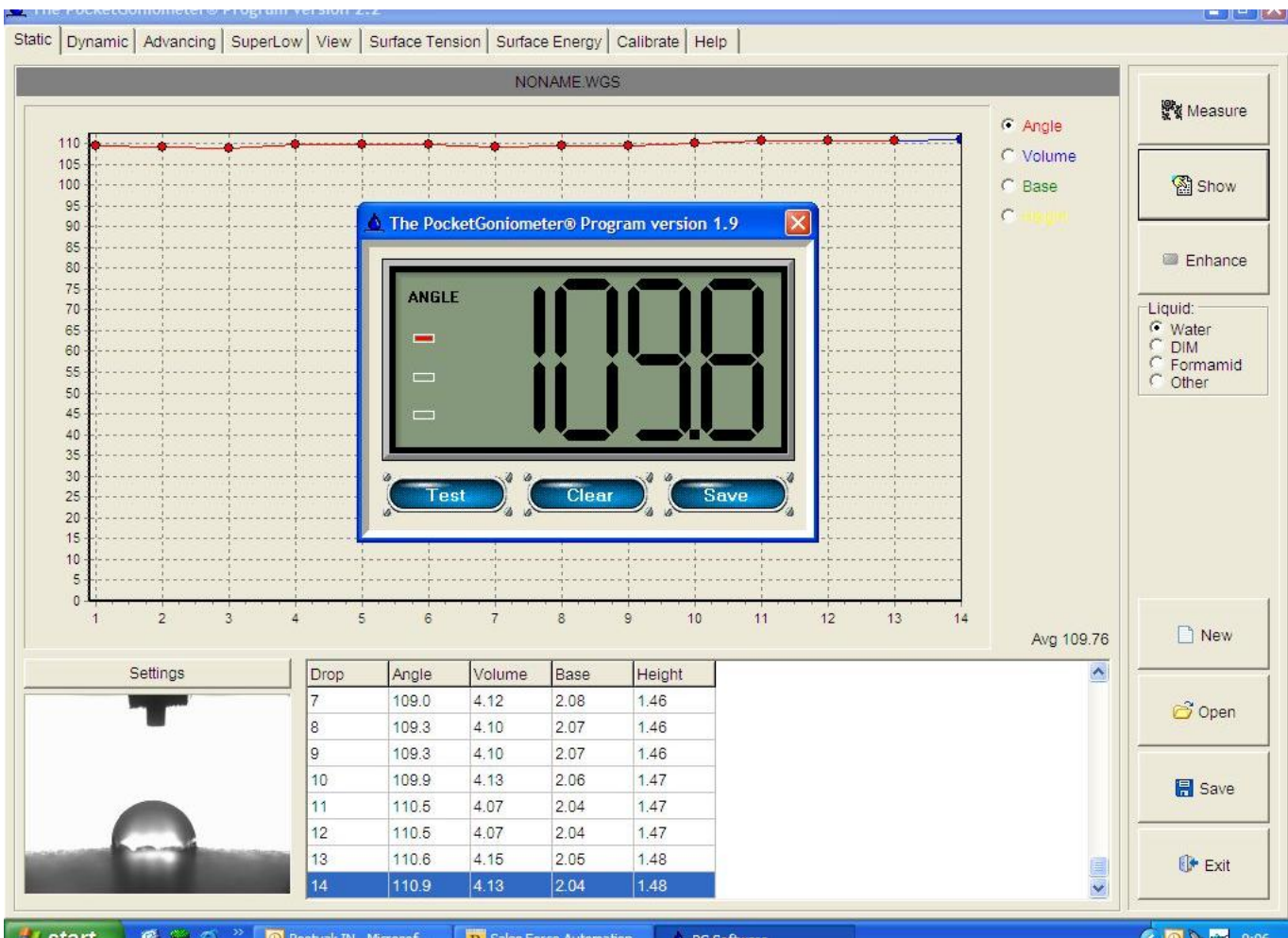
2. Dynamic results from a droplet on an absorbent substrate

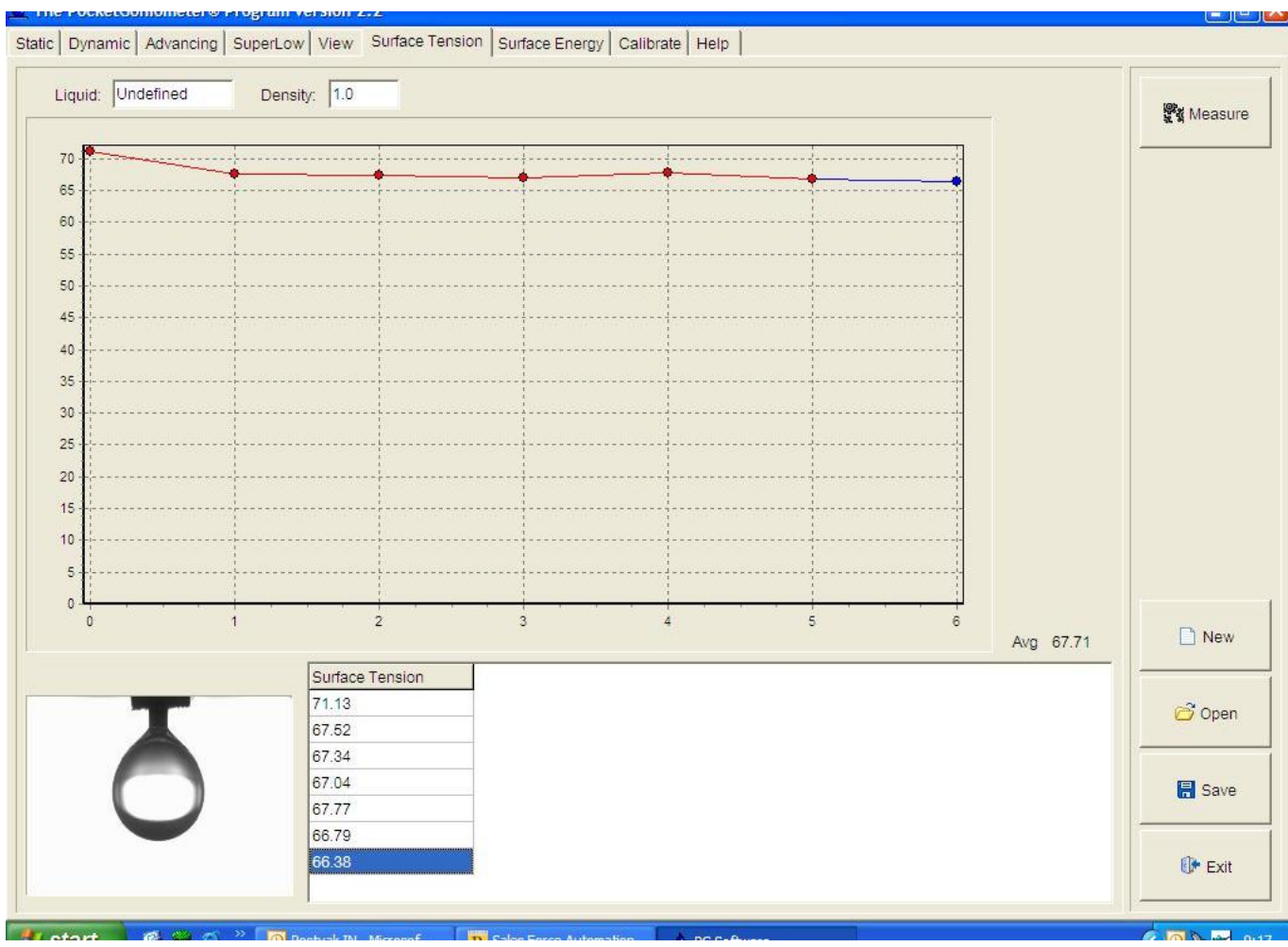


3. Stored data can be retrieved by the Viewer or a spreadsheet









The PocketSonometer® Program Version 2.2

Static | Dynamic | Advancing | SuperLow | View | Surface Tension | Surface Energy | Calibrate | Help

Sample ID:

Calculation Model:

- ASTM D5946
- Polar/Dispersive
- Acid/Base

Select File

Water:

DIM:

Formamid:

Buttons: Calc, Save, Print, Exit

