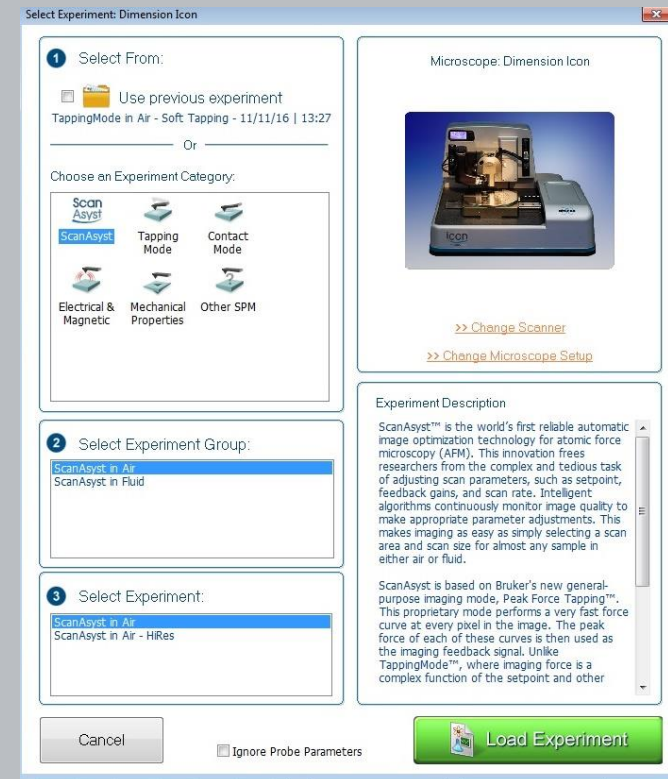


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How to measure? Procedure on Bruker software

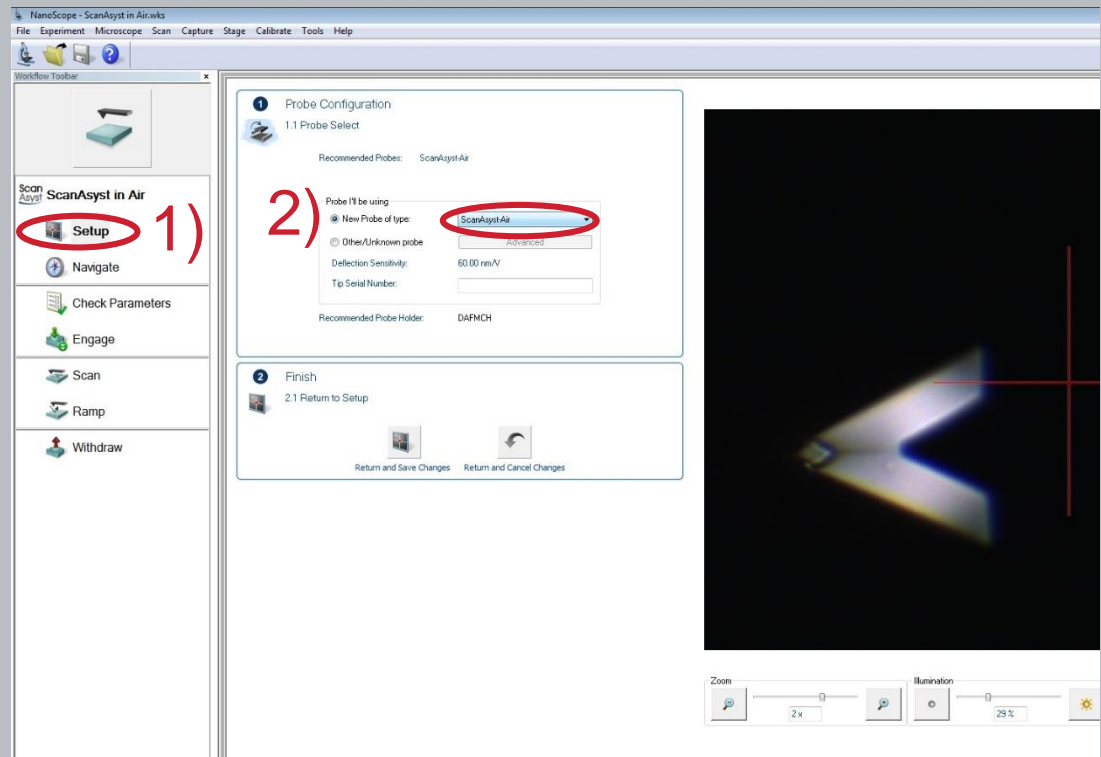
- Load Experiment ScanAsyst®* in Air
- Mount probe into probe holder



*ScanAsyst® is a registered trademark of Bruker Corporation

How to measure? Procedure on Bruker software

- 1) Setup
 - 2) Load Probe
- Probe Type select:
ScanAsyst®*-Air



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How to measure? Procedure on Bruker software

- 1) Setup
- 3) Adjust laser on cantilever
- 3) Maximise sum signal

1)

The screenshot shows the Bruker software interface. On the left, a sidebar contains a menu with 'Setup' circled in red. The main window displays a 'Probe Setup' panel with the following steps:

- 1.1 Probe Setup: 1.1 Currently selected probe and laser spot size: Probe Type: ScanAsyst-Air, Tip Serial #: Unknown, Installed On: 04/19/2018, Calibration: Calibrated on 04/19/2010 at 15:42. A 'Load Probe' button is present.
- 2.1 Align Laser on Probe: 2.1 Move to Laser Alignment Station - optional. Includes a 'Move to the Alignment Station' button.
- 2.2 Align laser using top controls (Watch Video)
- 2.3 Align laser using side controls (Watch Video)
- 3.1 Focus Tip: 3.1 Move back from Laser Alignment Station. Includes a 'Return from the Alignment Station' button.
- 3.2 Use focus controls to focus optics on cantilever. Includes 'Focus Controls' with 'Speed' and '300%' settings.
- 3.3 Click on the tip position on probe image to locate cantilever.

At the bottom left, a data table shows:

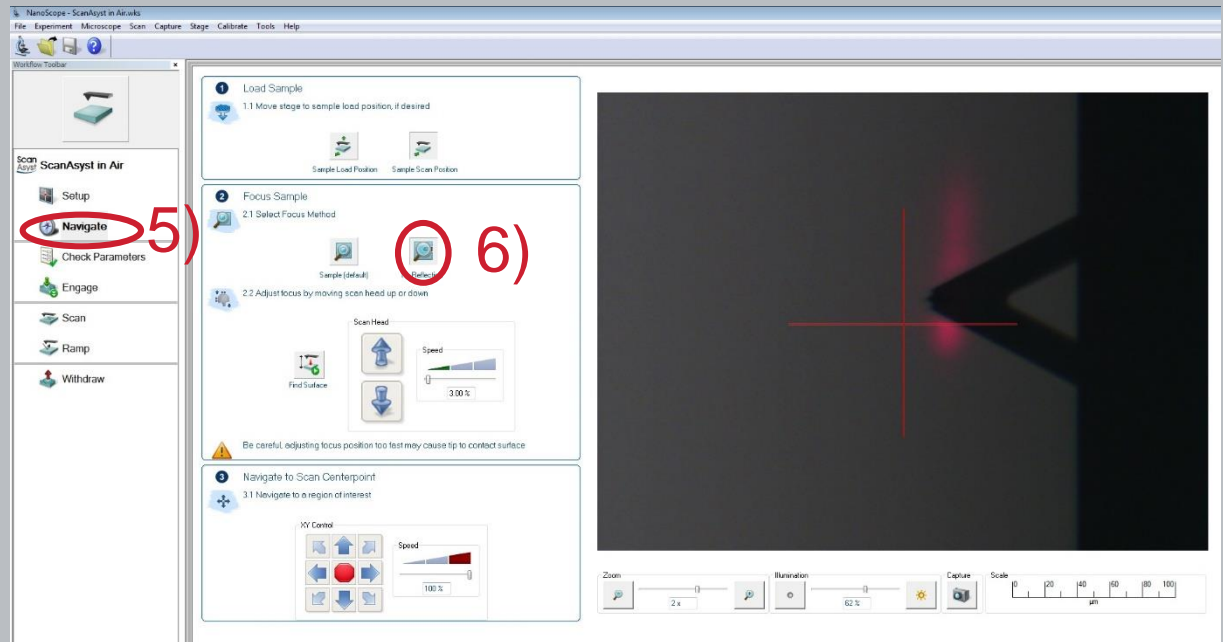
VERT	HORIZ
1.2 V	-0.6 V
AMPL	SUM
n/a	3.3 V

At the bottom right, a video window shows a focus control graph with a red dot and a scale from 0 to 12. The graph has a red '4)' label. The graph shows a red dot at approximately 6.5 on the scale. The y-axis is labeled with 1.19 V and -0.59 V. A scale bar below the graph is labeled 3.29 V.

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How to measure? Procedure on Bruker software

- 5) Navigate
- 6) Focus Tip reflection (and surface)

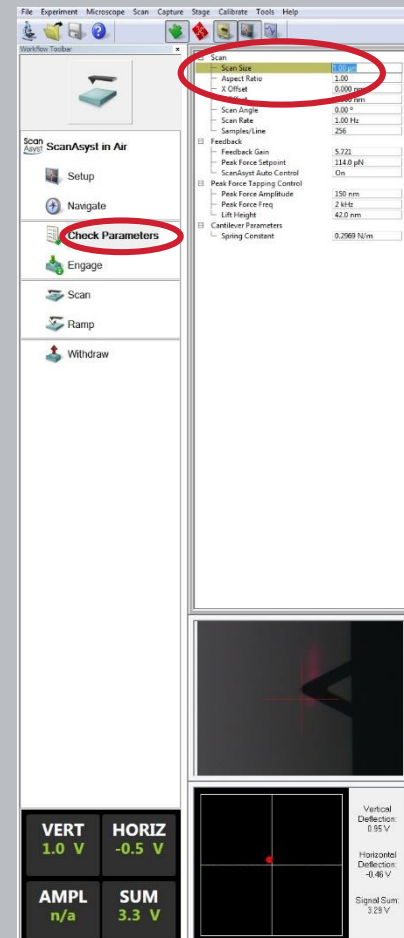


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How to measure? Procedure on Bruker software

- 7) Check parameters
- 8) Adjust scan size

Don't change any other parameters!



8)

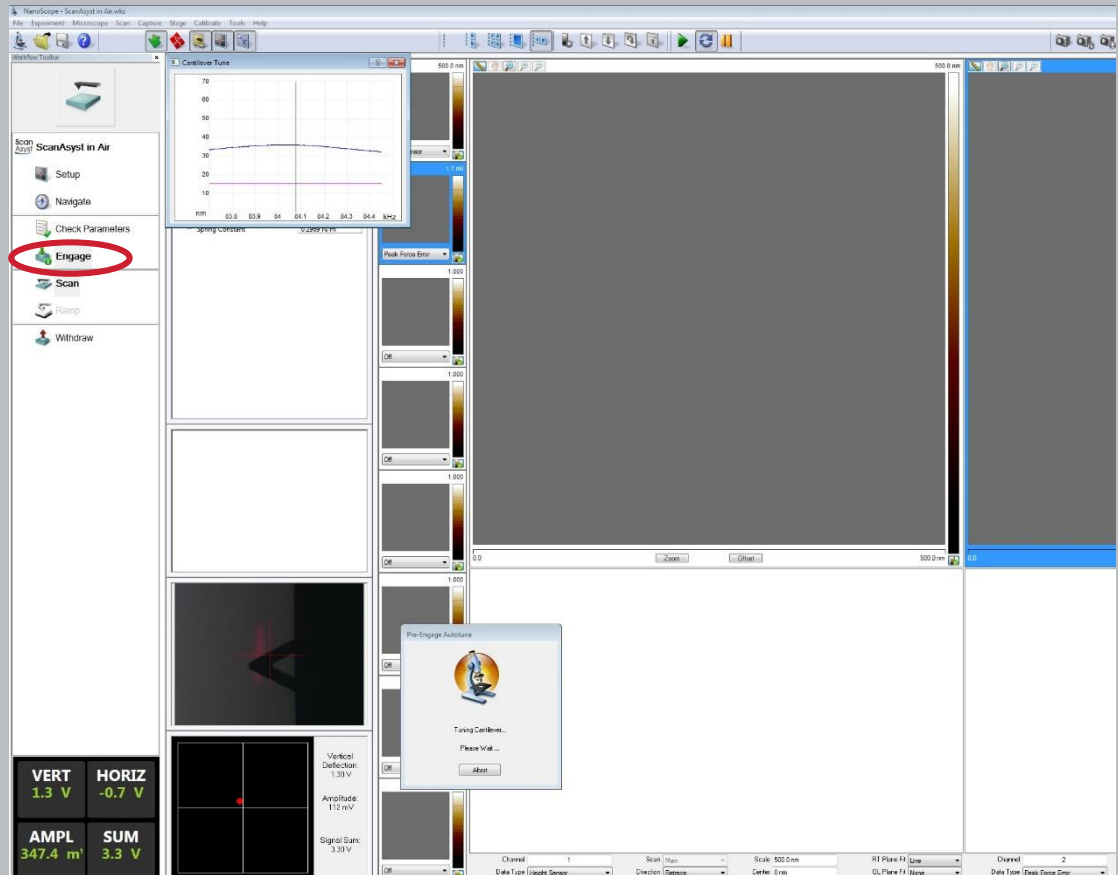
7)

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How to measure? Procedure on Bruker software

9) Engage

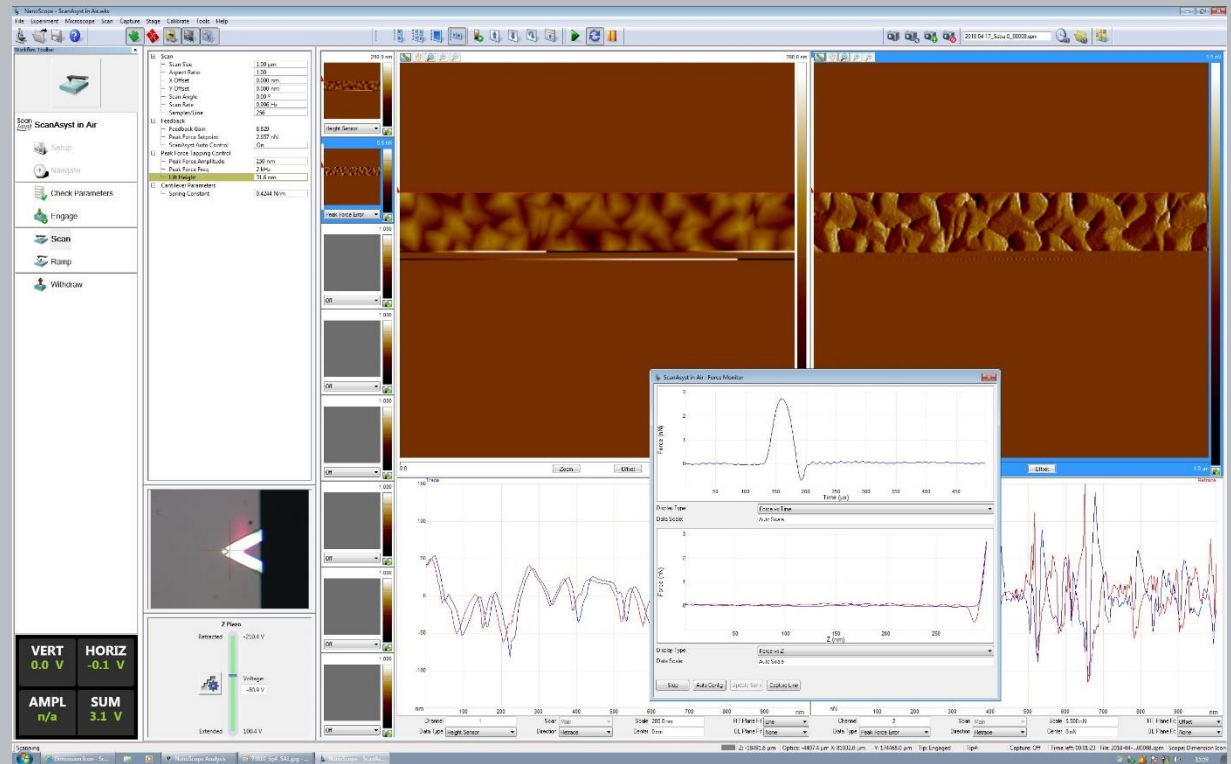
9)



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How to measure? Procedure on Bruker software

Scan, ev. adjust scan size and save picture



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