Scientific Graphing and Analysis Software

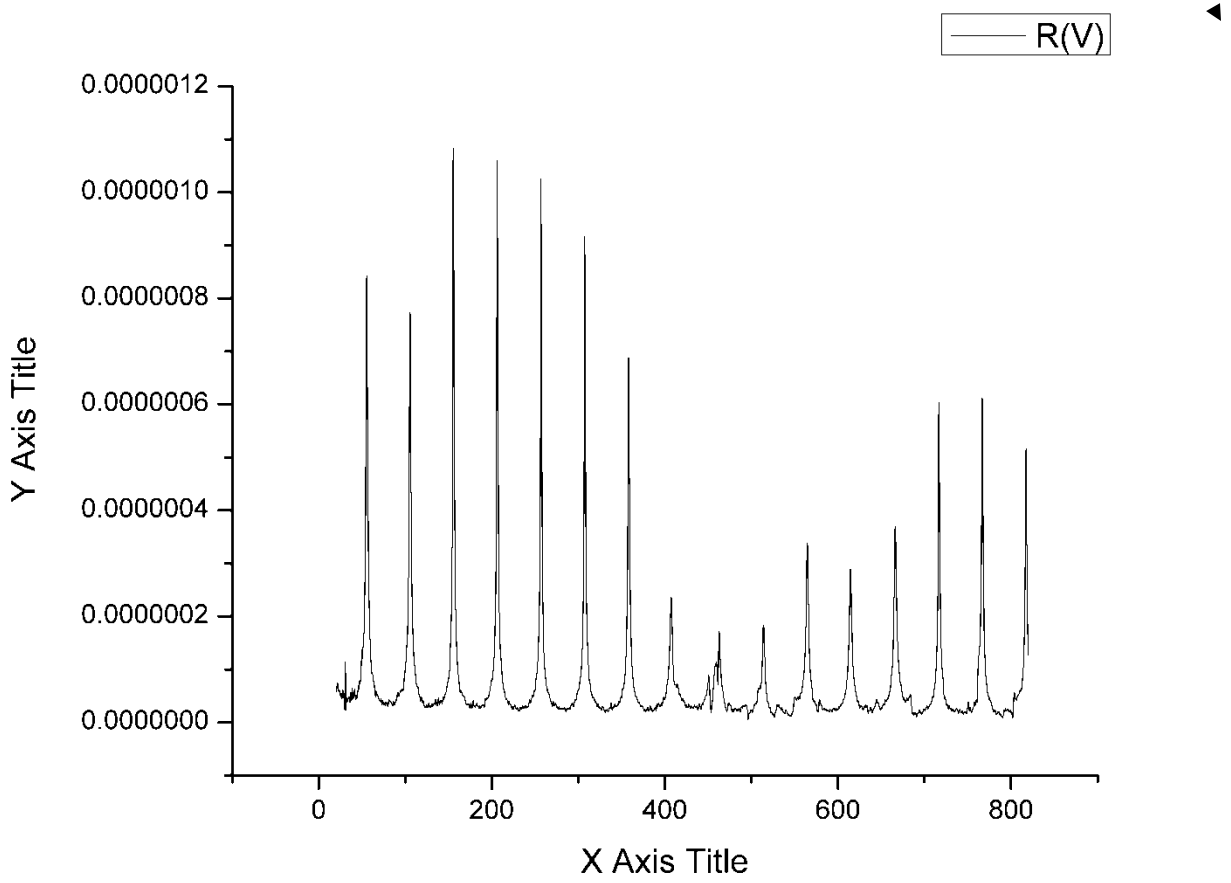
http://www.originlab.com/

Current versions on all Physics 403 computers are OriginPro 9.1
What can it do:

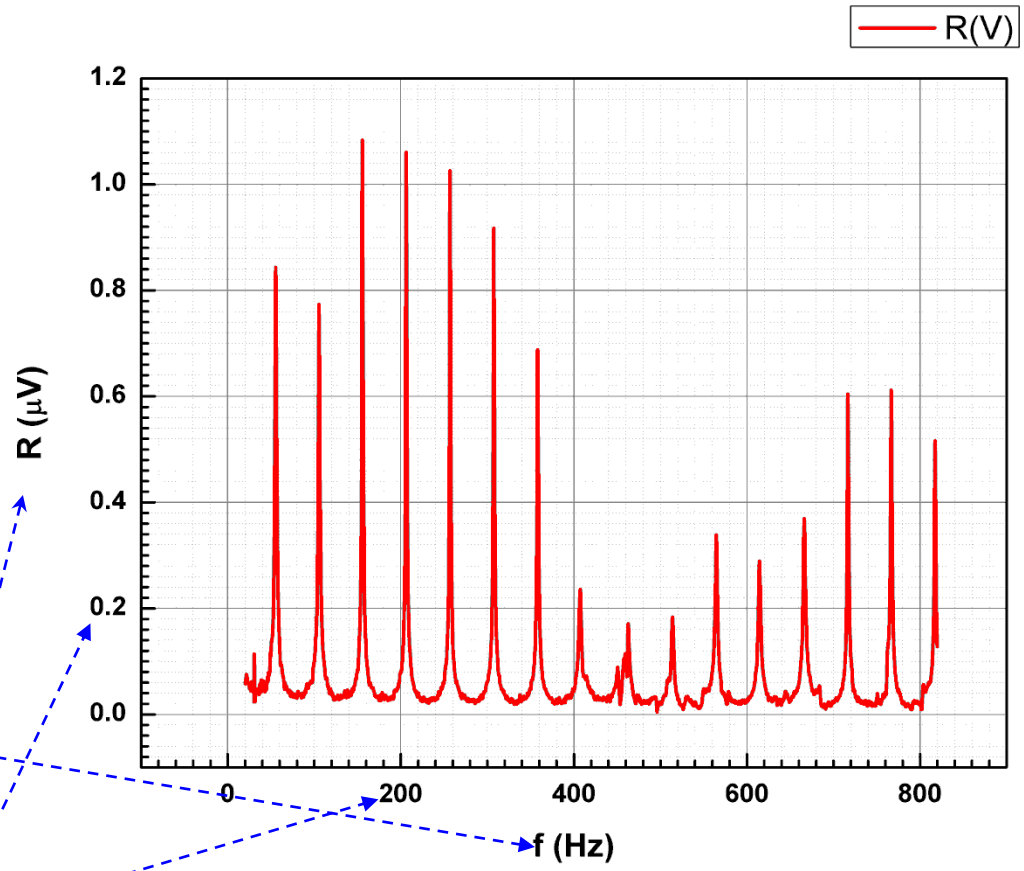
1. **Graphical presentation of the data**
2. **Data analysis**
3. **Preparation of the publishing quality figures.**

This software is specially designed for scientific graphics and is a "standard" Windows application which does not require knowledge of C++ or any other high level computer language. In the same time if you like you can write some special functions or procedures using provided by Origin some programming tools:

Graphical presentation of the data. Basic.



Graphical presentation of the data. Basic.

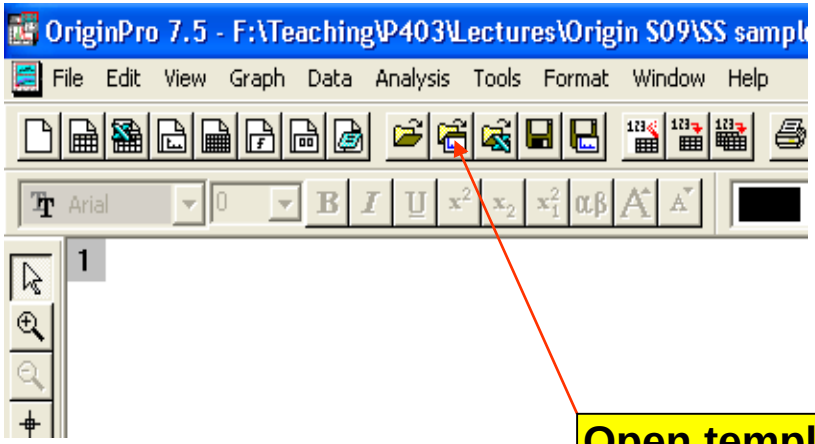


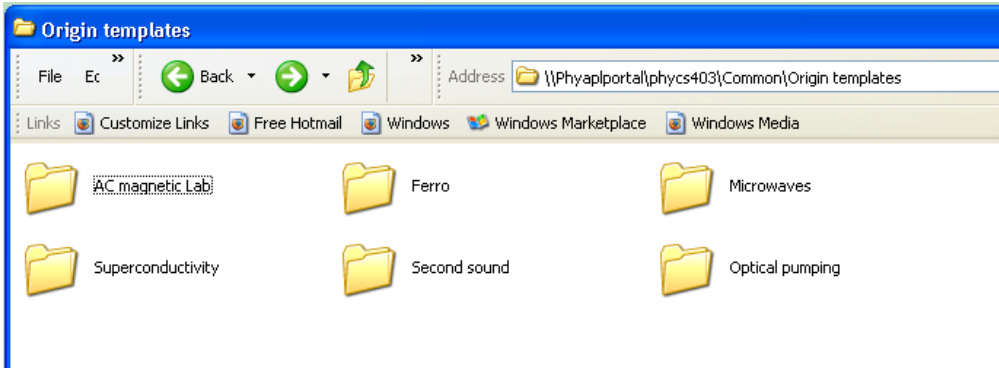
Opposite axes, grid lines

Axes titles

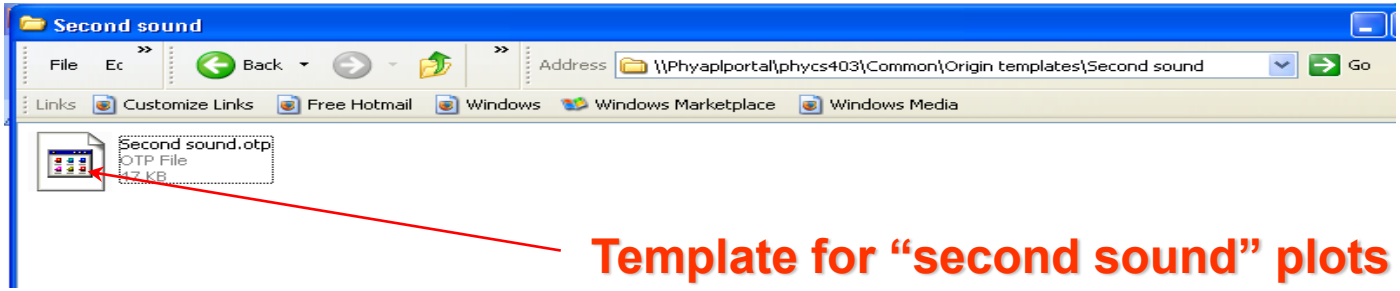
Bold tick labels. For better graph looking volts were converted to μV

Graphical presentation of the data. Templates.





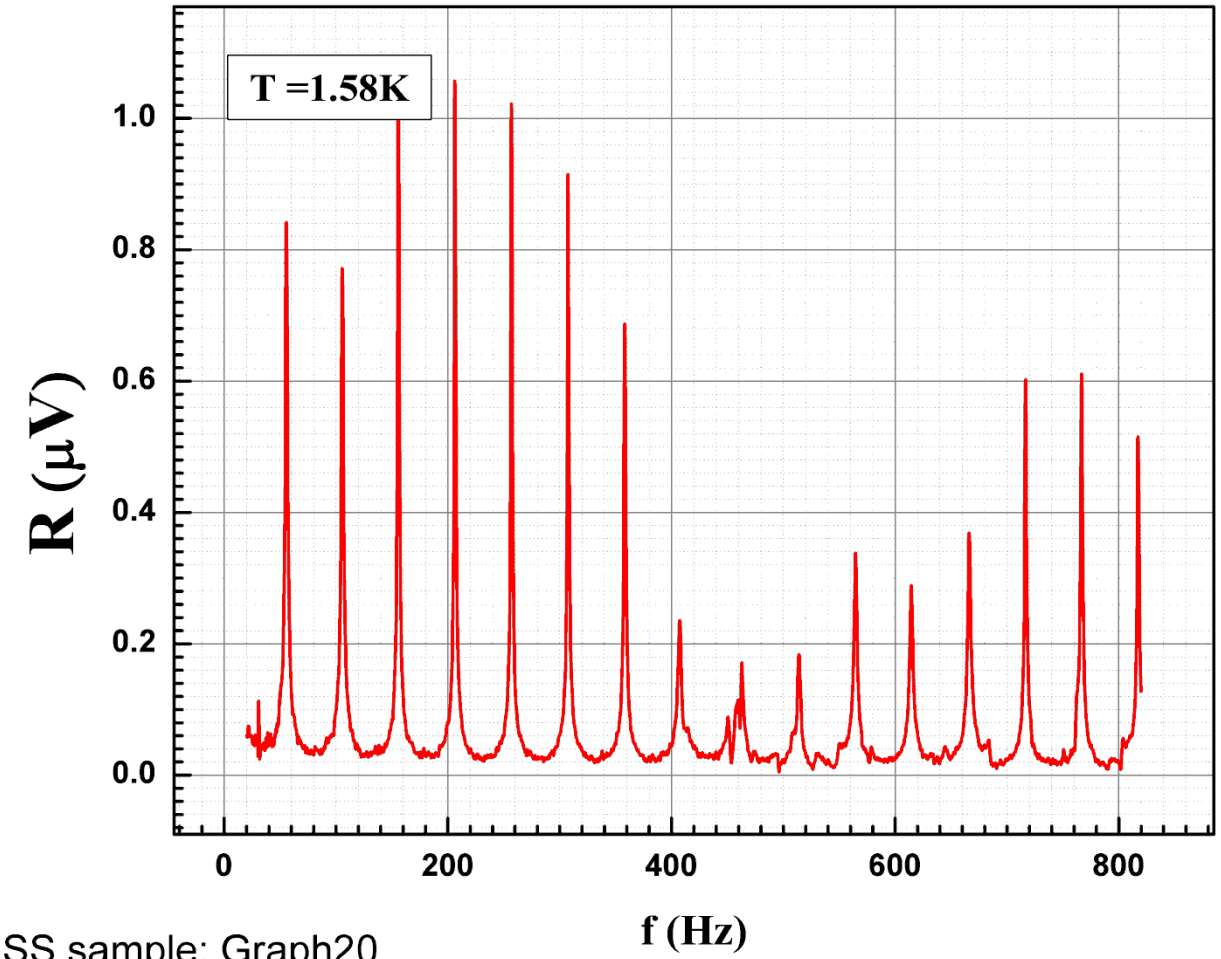
Open template



Template for “second sound” plots

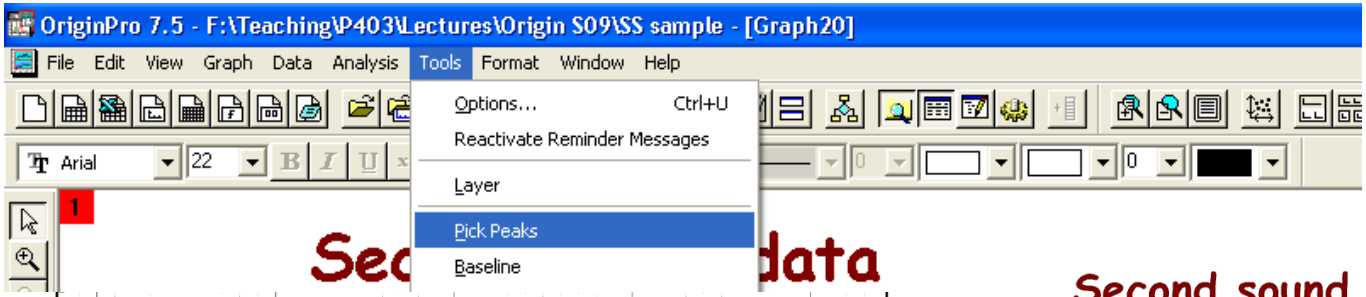
Graphical presentation of the data. Templates.

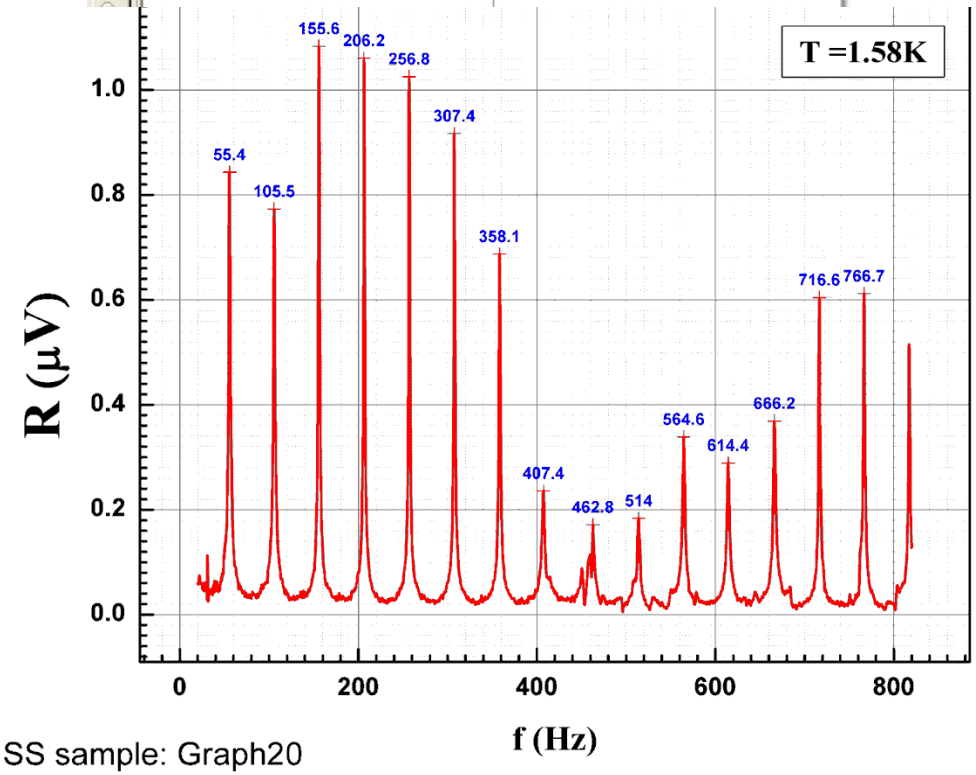
Second sound data



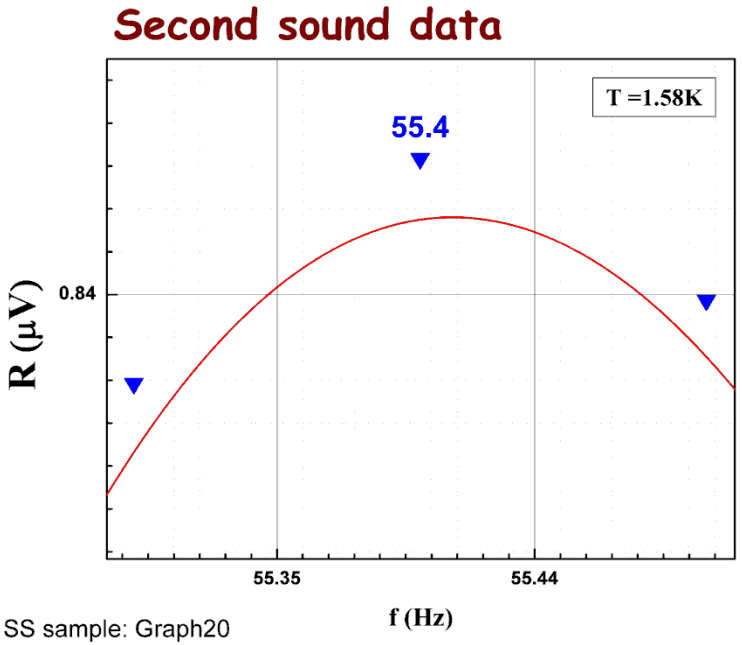
SS sample: Graph20

Graphical presentation of the data. Fitting etc.



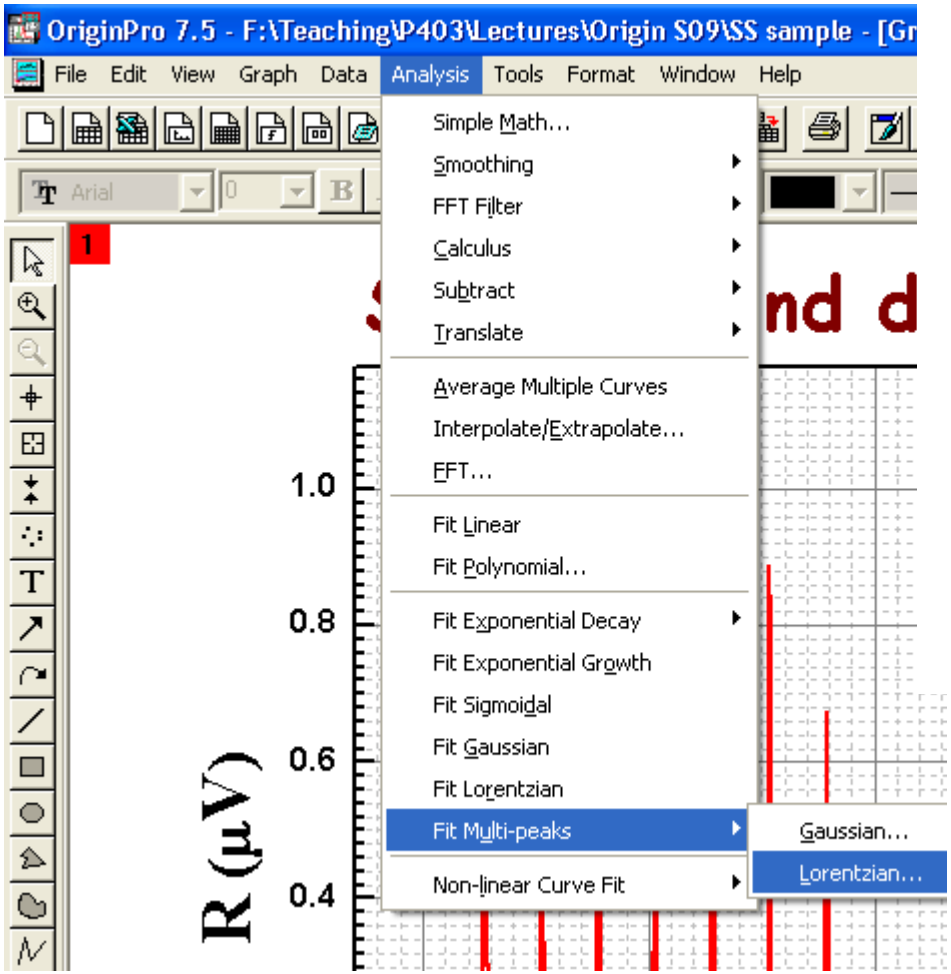


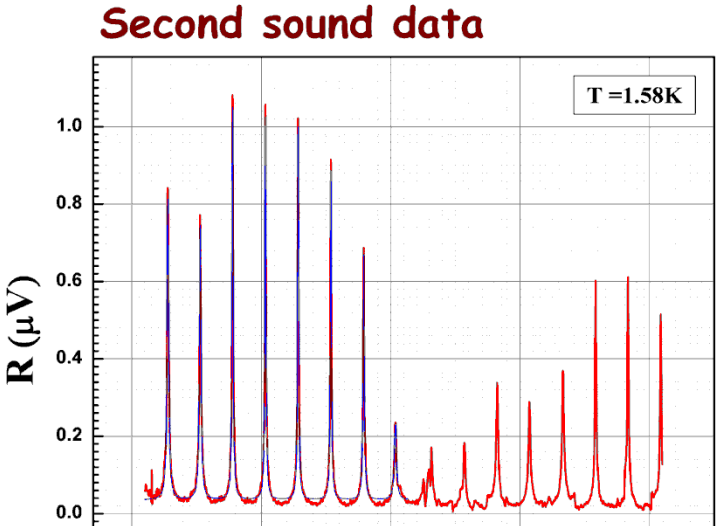
SS sample: Graph20

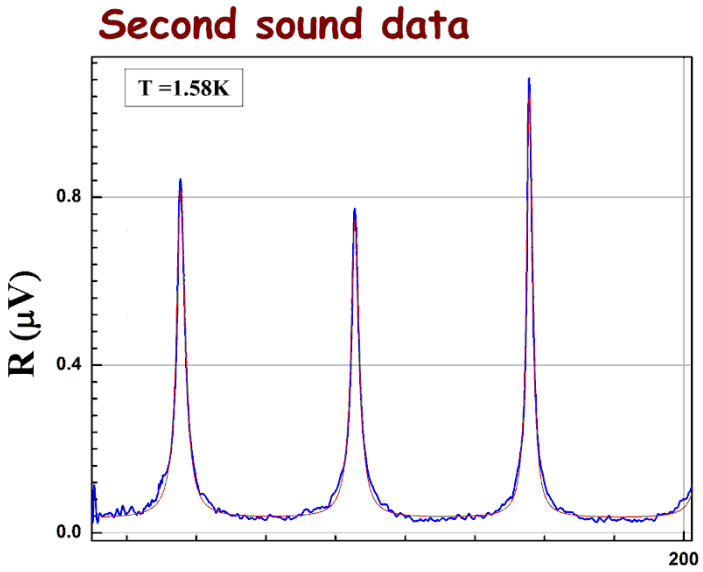


SS sample: Graph20

Graphical presentation of the data. Fitting etc.

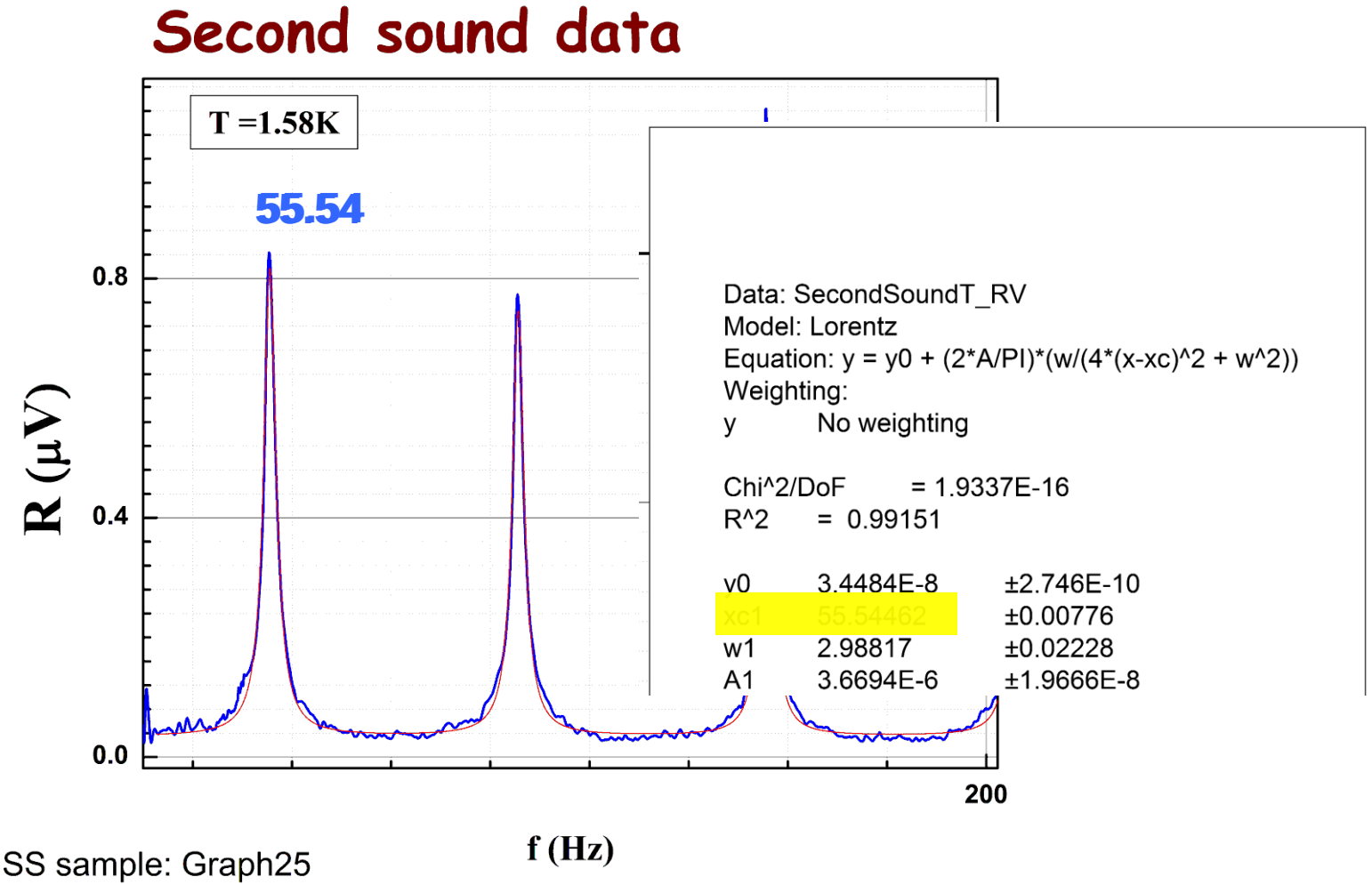






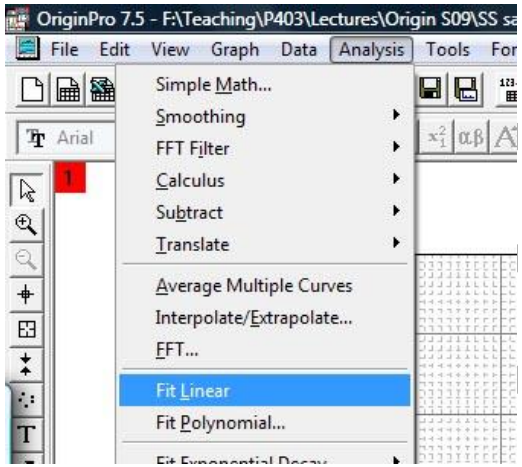
SS sample: Graph25

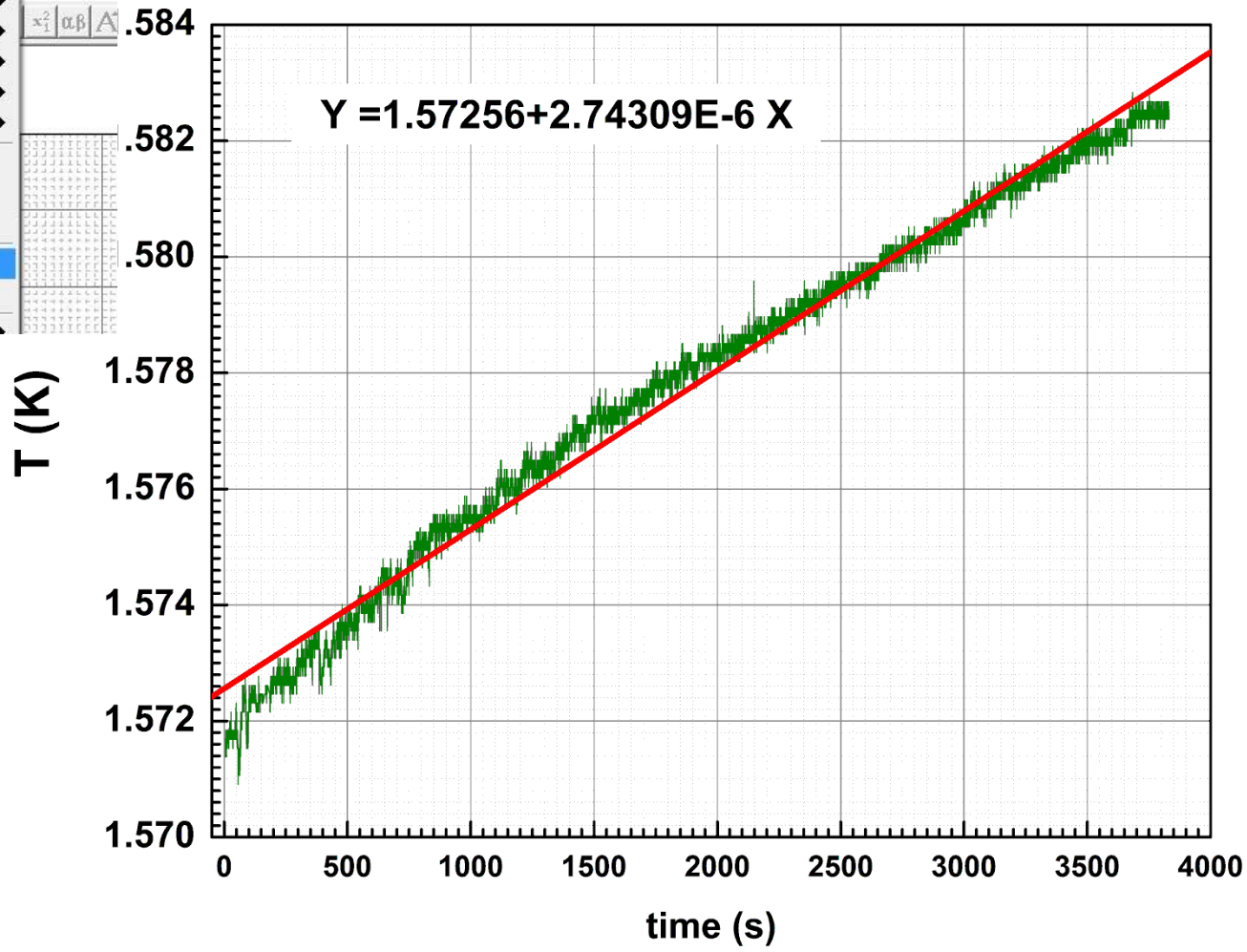
Graphical presentation of the data. Fitting etc.



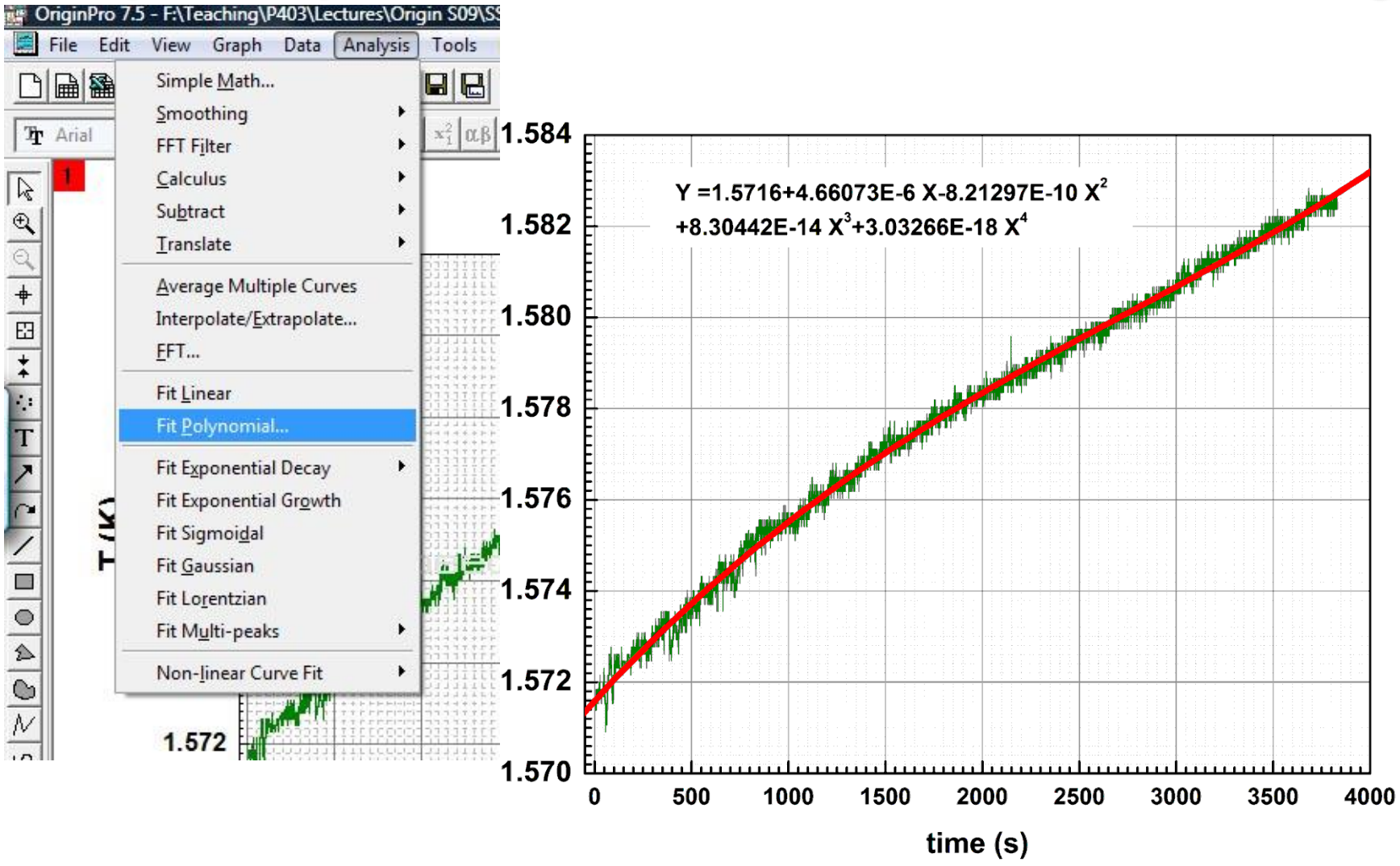
SS sample: Graph25

Graphical presentation of the data. Linear fitting.

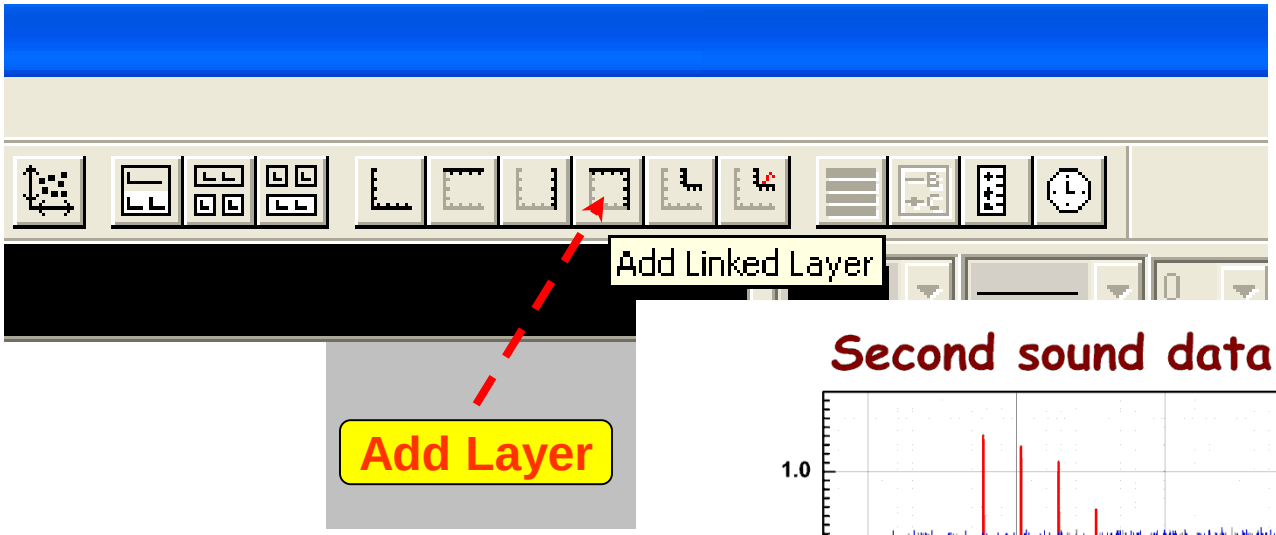


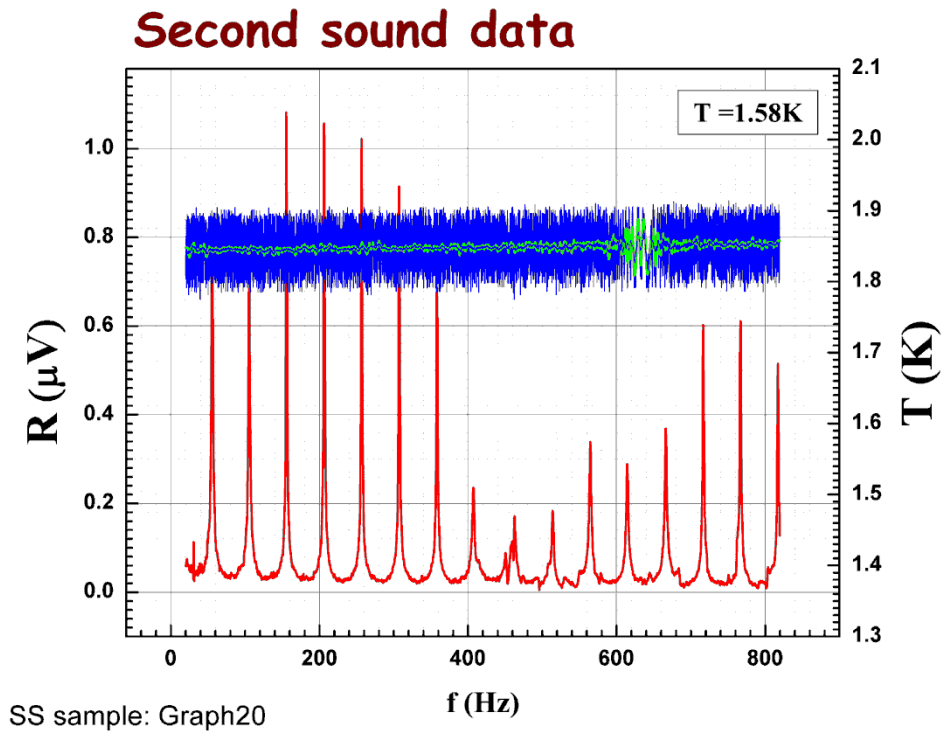


Graphical presentation of the data. Linear fitting.



Graphical presentation of the data. 2 layers graph.





SS sample: Graph20

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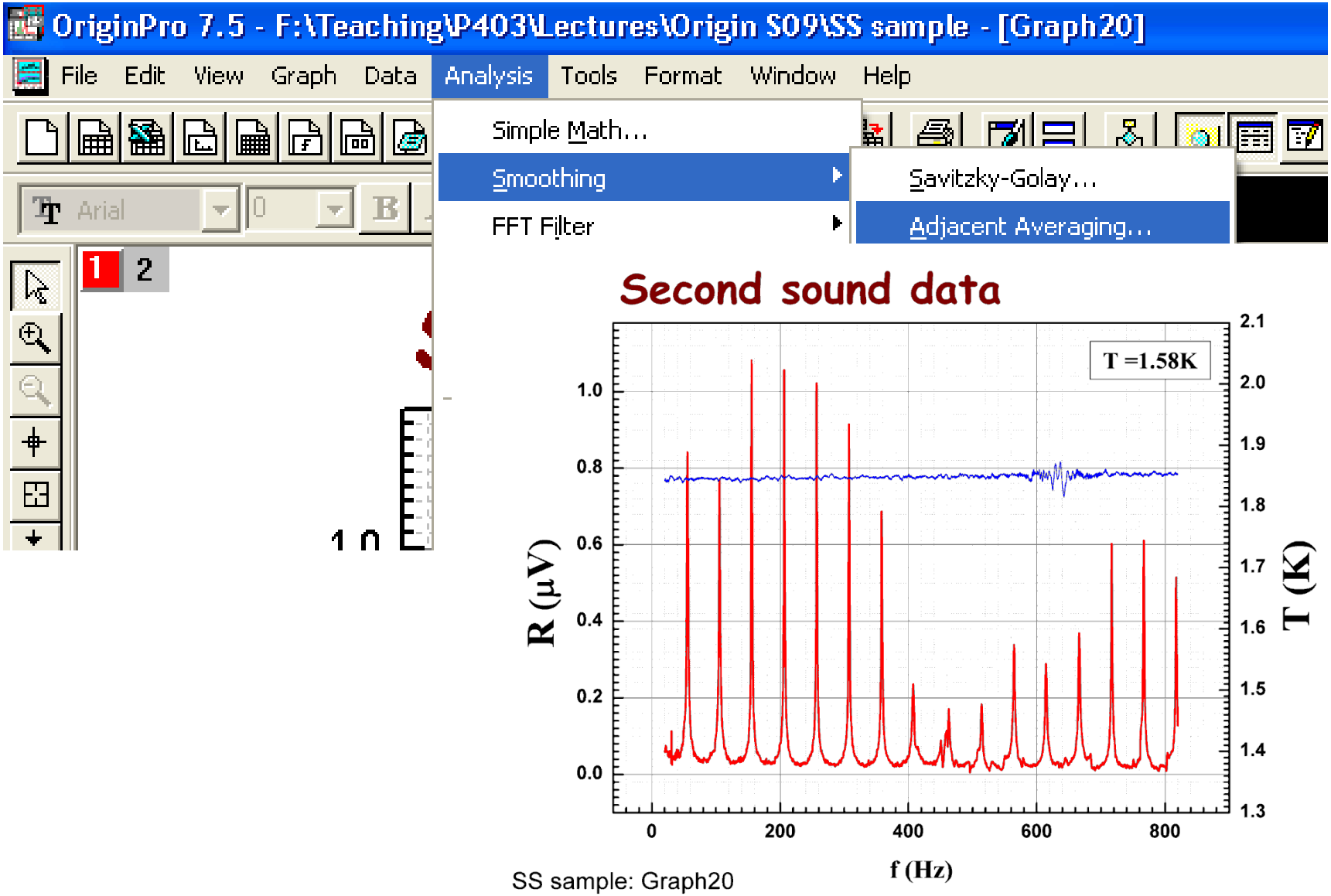
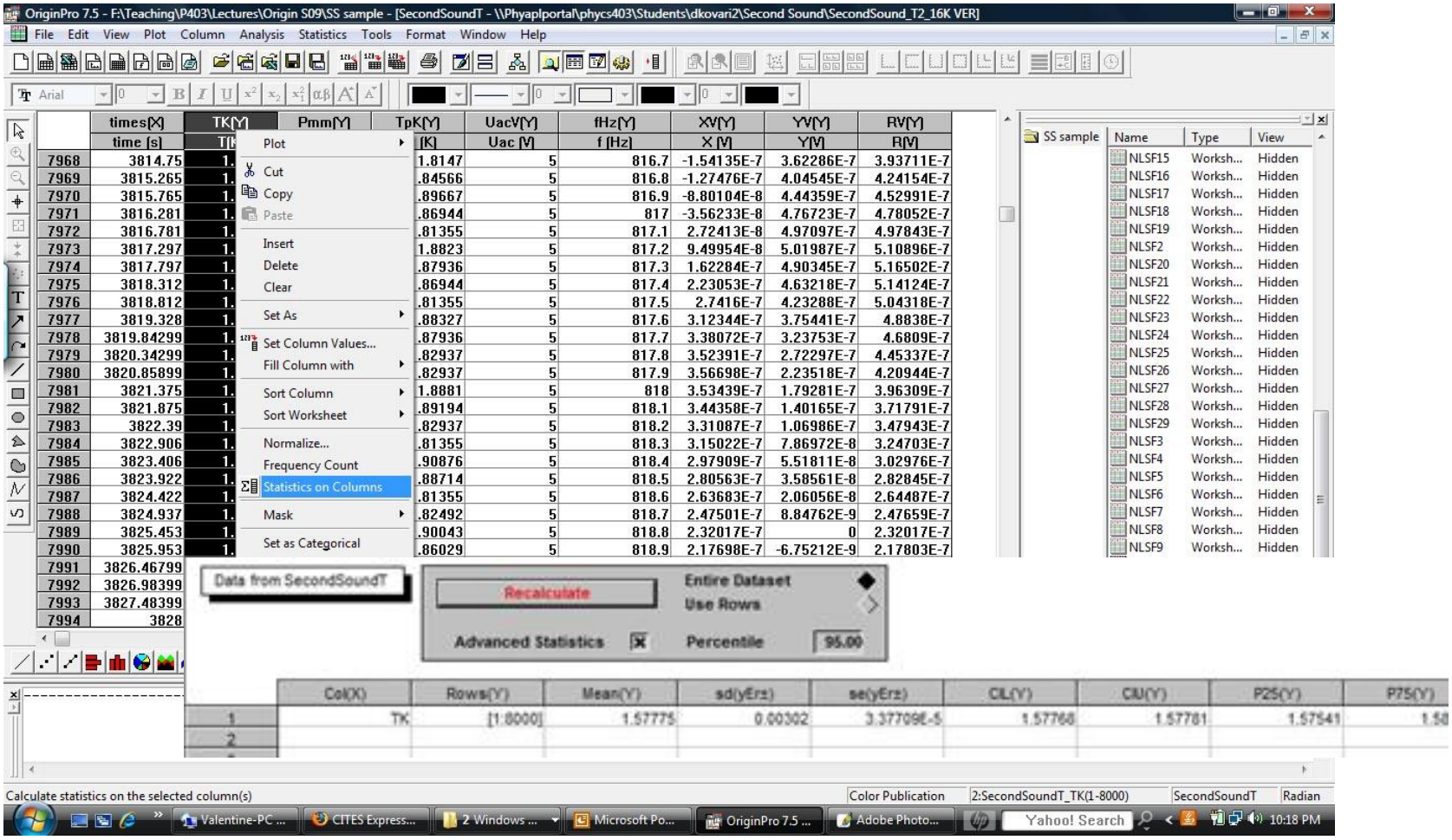
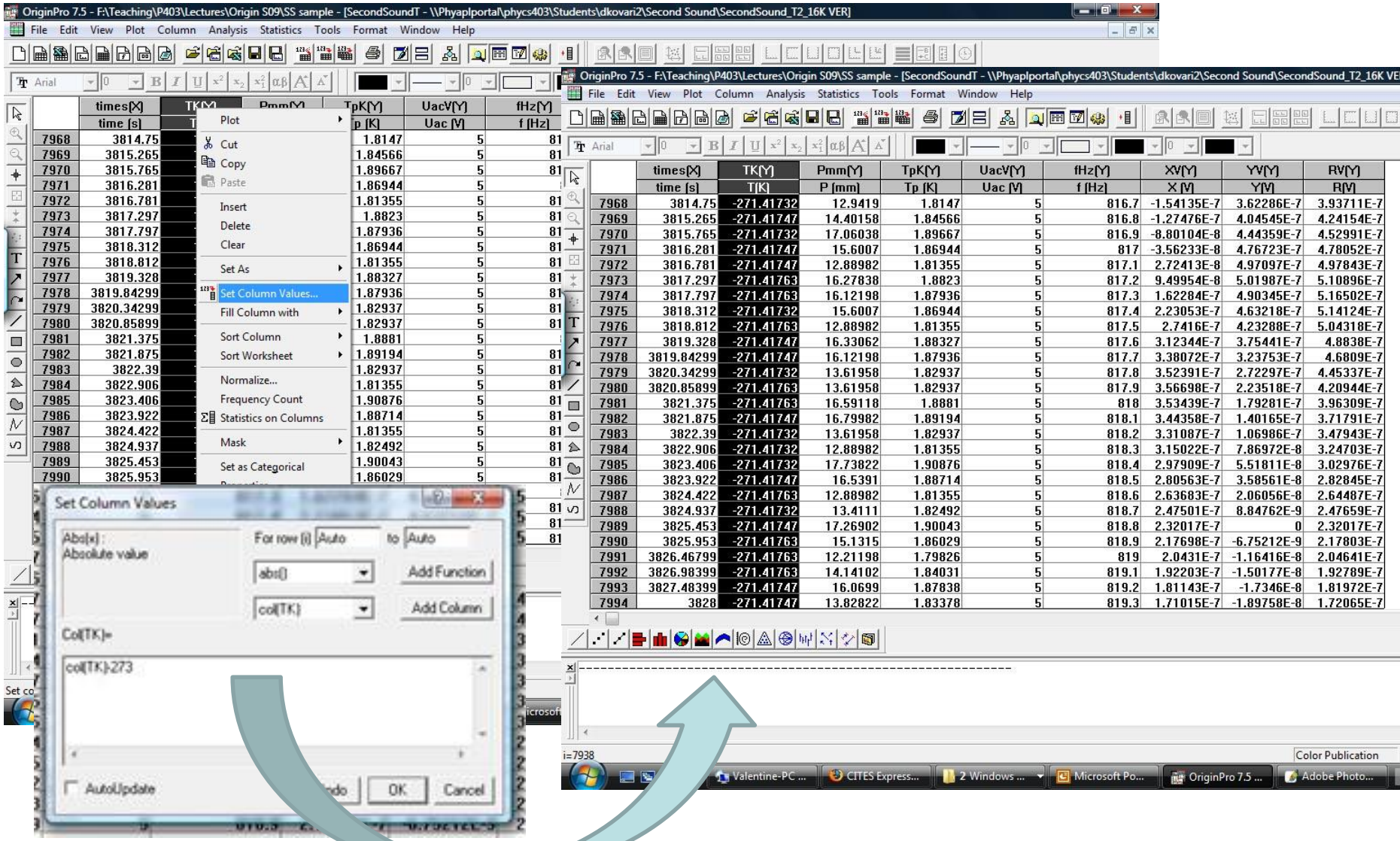


SS sample: Graph20

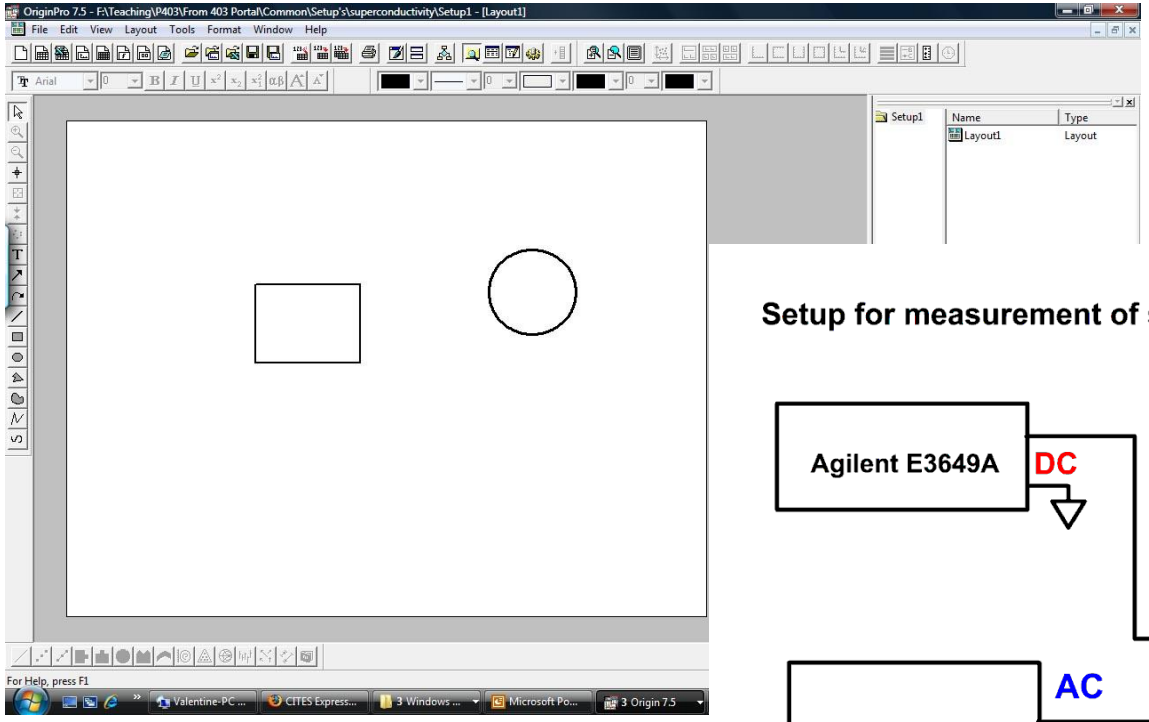
Worksheets. Working with data.



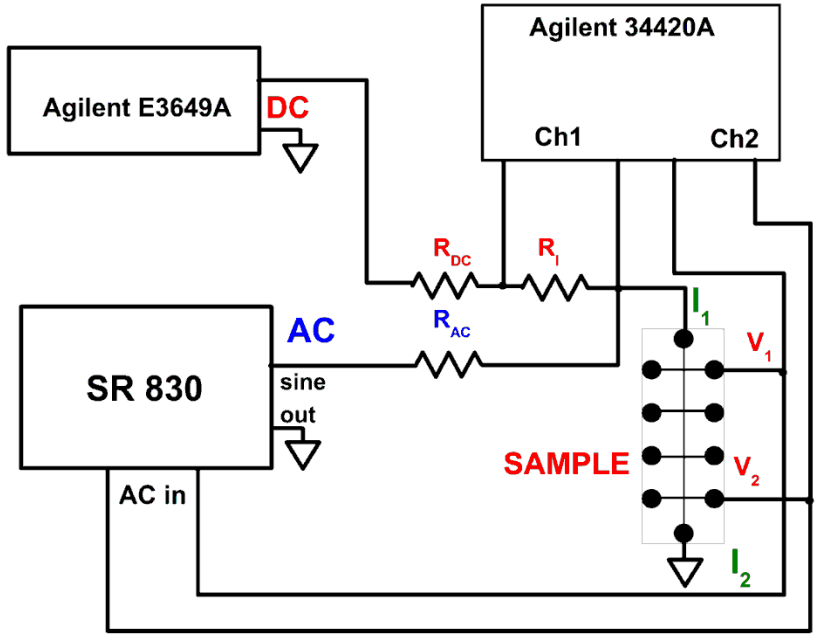
Worksheets. Working with data.



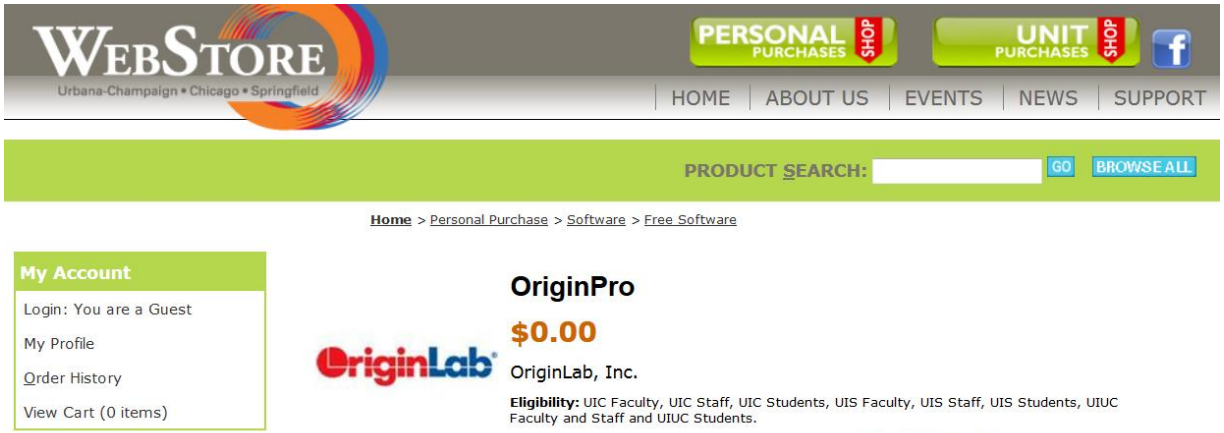
Layouts.



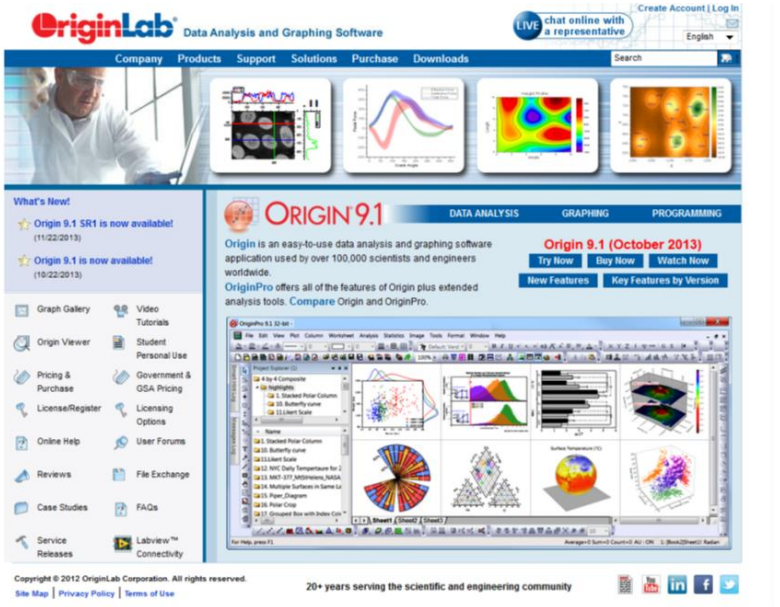
Setup for measurement of s/c properties



Origin at UIUC Webstore and OriginLab site.



https://webstore.illinois.edu



www.originlab.com

Origin. Useful link *http://www.originlab.com/fileexchange/index.aspx*

OriginLab Data Analysis and Graphing Software

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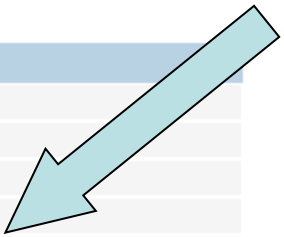
File Exchange

The OriginLab File Exchange is a place to let Origin users share their Origin files o
custom components with others.

Digitizer



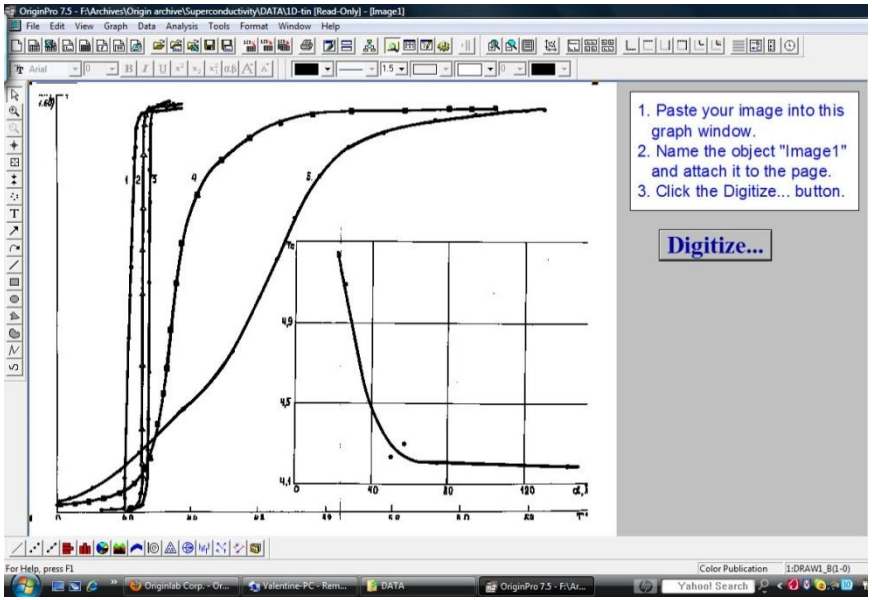
Most recently updated files:

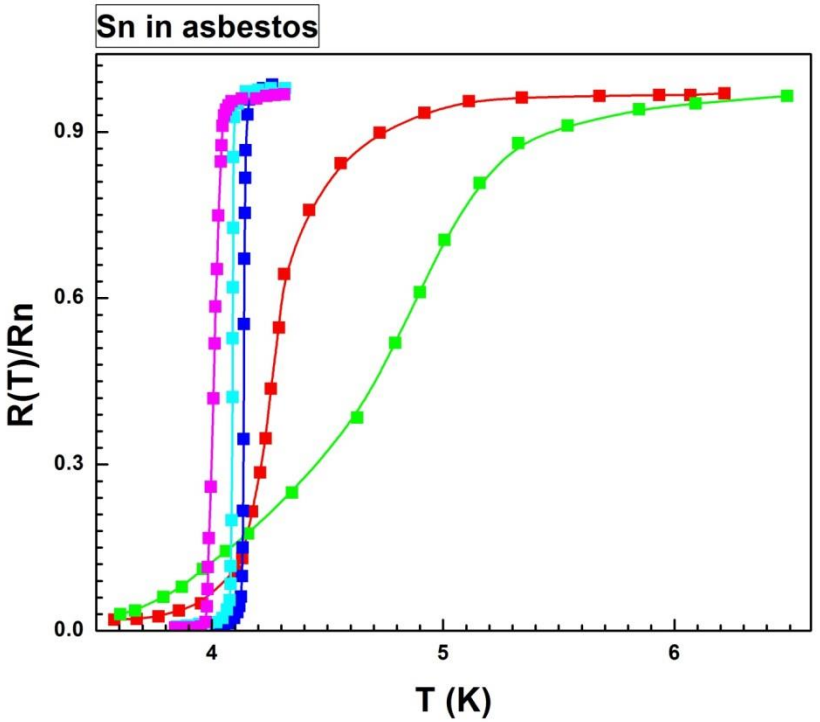
- Separate data into blocks
- Automated analysis of pClamp data
- Cross Correlation
- Shortcut buttons
- Digitizer for Origin 7, 7.5 and 8.0 (SR2 or later)

Most downloaded files (Last Month):

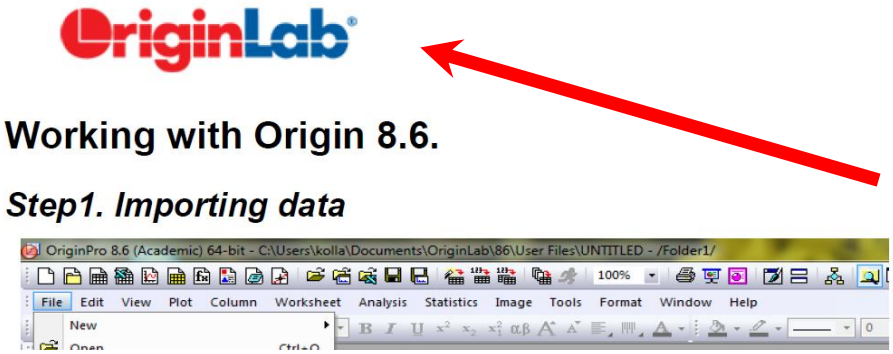
- Digitizer for Origin 7, 7.5 and 8.0 (SR2 or later)
- Tangents
- Peak Analysis Tool
- Extract data from graph
- MultiFit - Multiple curve fitting commands
- Cluster Tool
- Digitizer for Origin 6.0 and 6.1
- Tafel Extrapolation (Estimate Ecorr and Icorr)
- Envelope Curves
- Script Tool
- Linear Digitize Template
- Estimate Onset of Slope Change
- ONMR 7.5
- Shortcut buttons
- OAnimator
- ScanRead
- Import Princeton Instruments (* SPE) Files

Origin. Using digitizer script.





Origin manuals

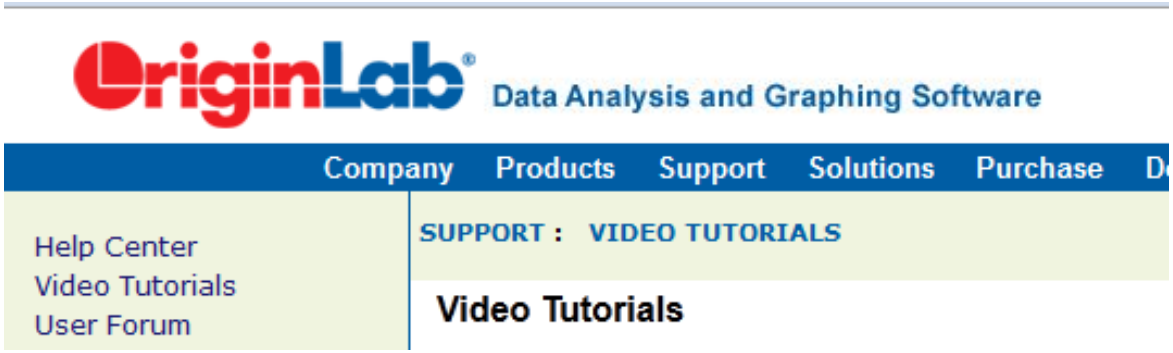


Very short and simple manual which covers only main general operations with Origin. Document located on server (\\Phyaplportal\PHYCS403\Common\Origin manuals).

There are (\\Phyaplportal\PHYCS403\Common\Origin manuals) also manuals from OriginLab.

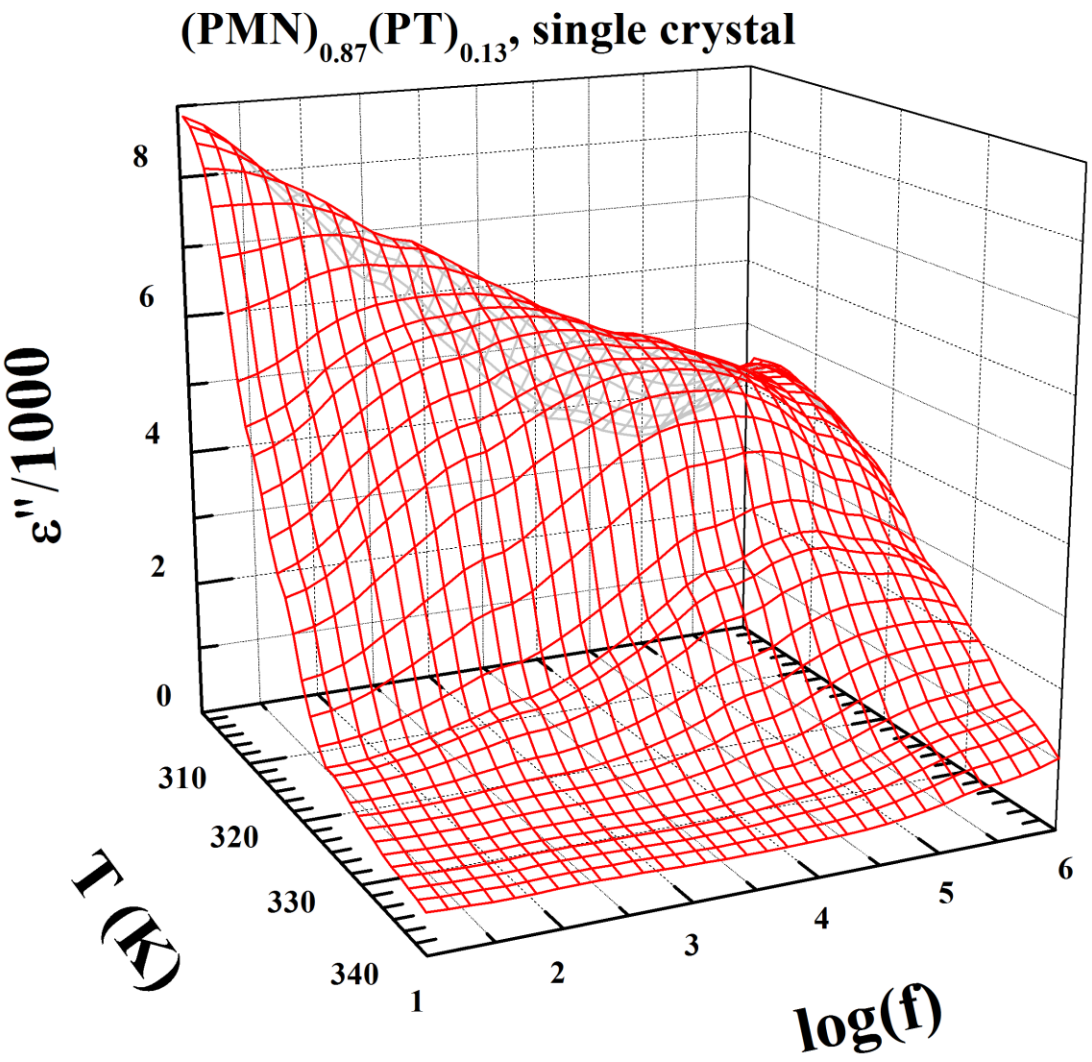
Do not forget about Origin Help

Video Tutorials at the site of the company



http://www.originlab.com/index.aspx?go=SUPPORT/VideoTutorials

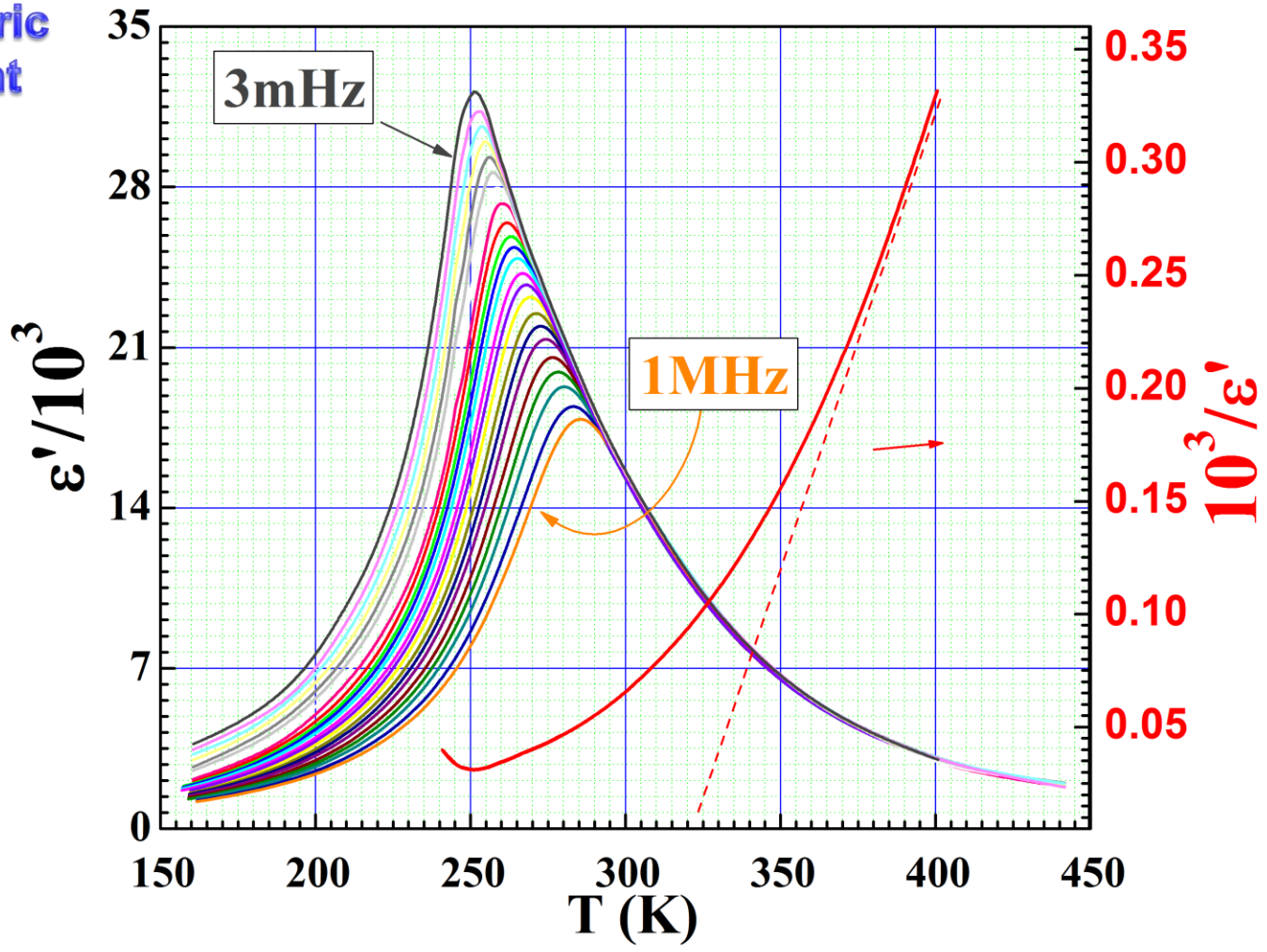
Origin graphs. Examples.



Ferroelectric
Experiment

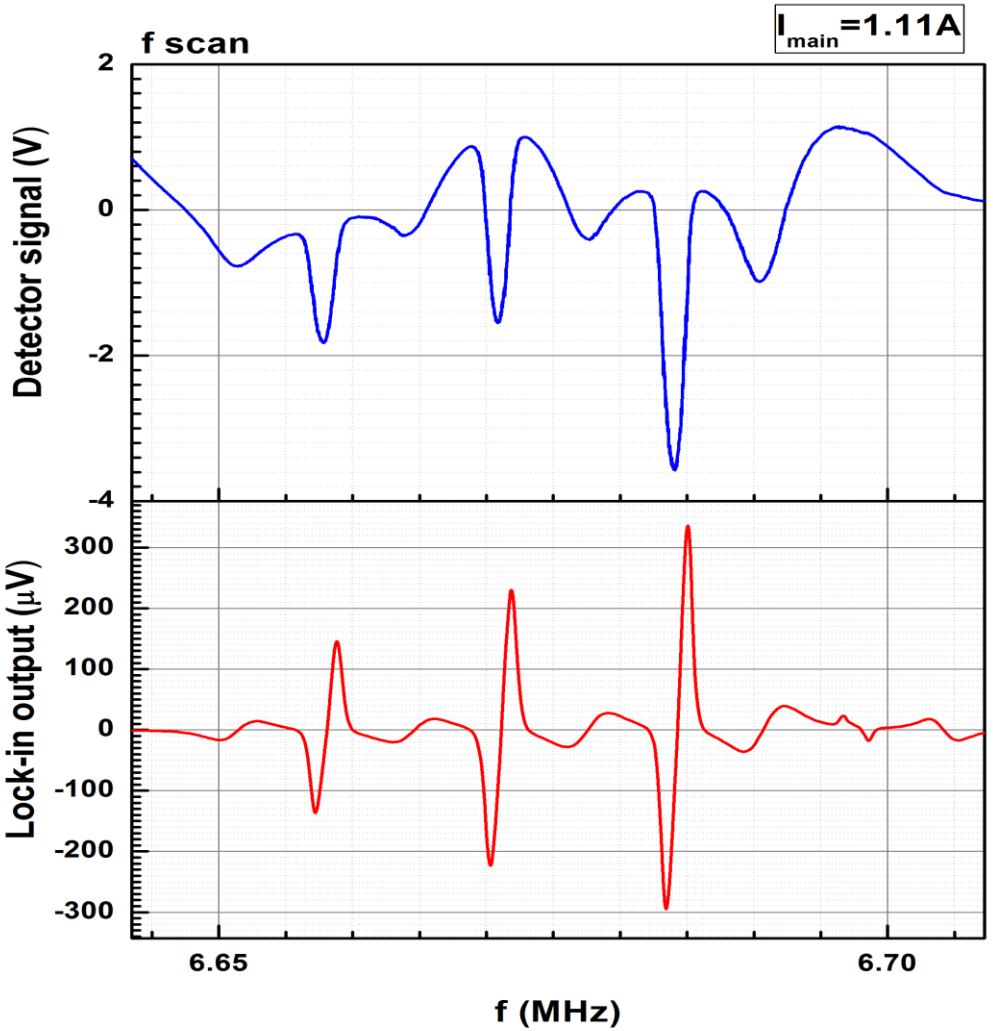
Origin graphs. Examples.

Ferroelectric Experiment



Origin graphs. Examples.

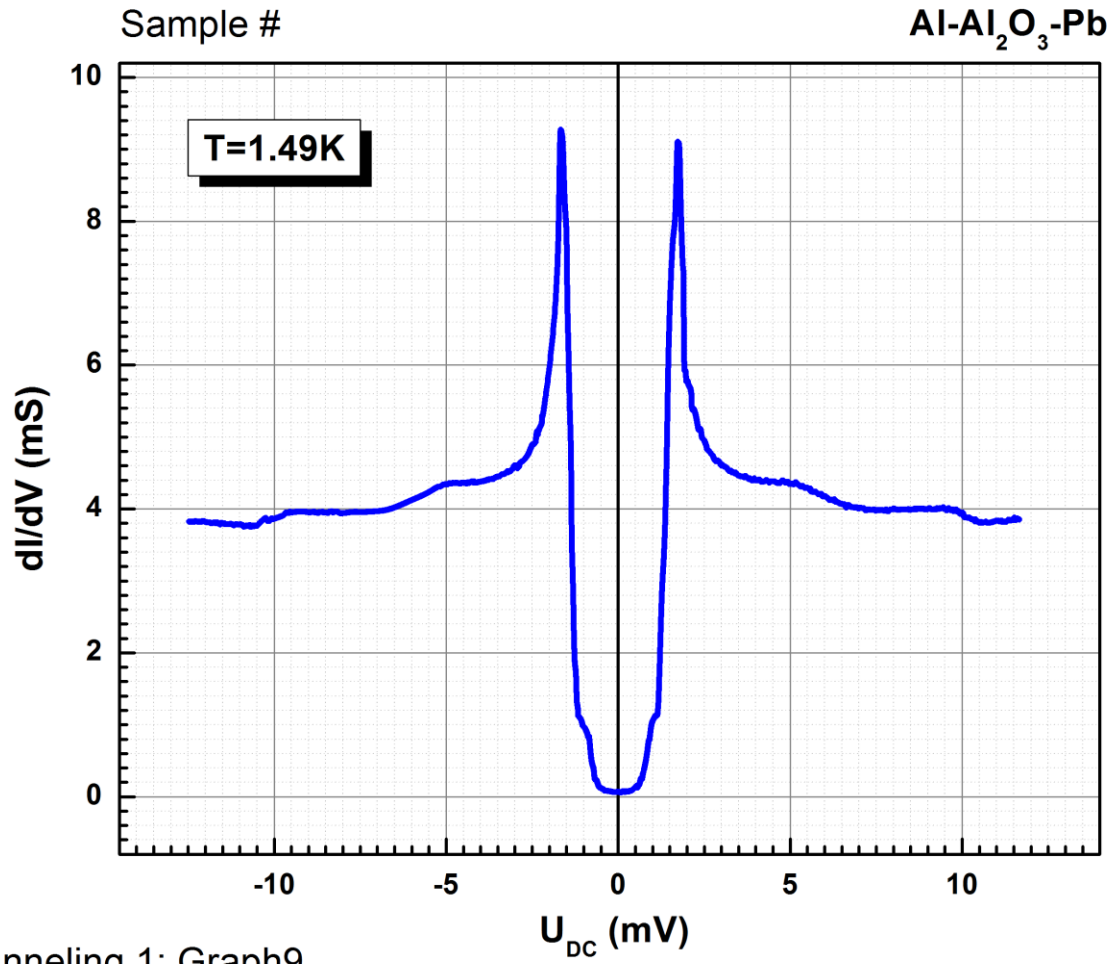
Optical pumping



Mapping 0.5-2.5A from March 1st 2012: Graph7

Origin graphs. Examples.

Tunneling Experiment

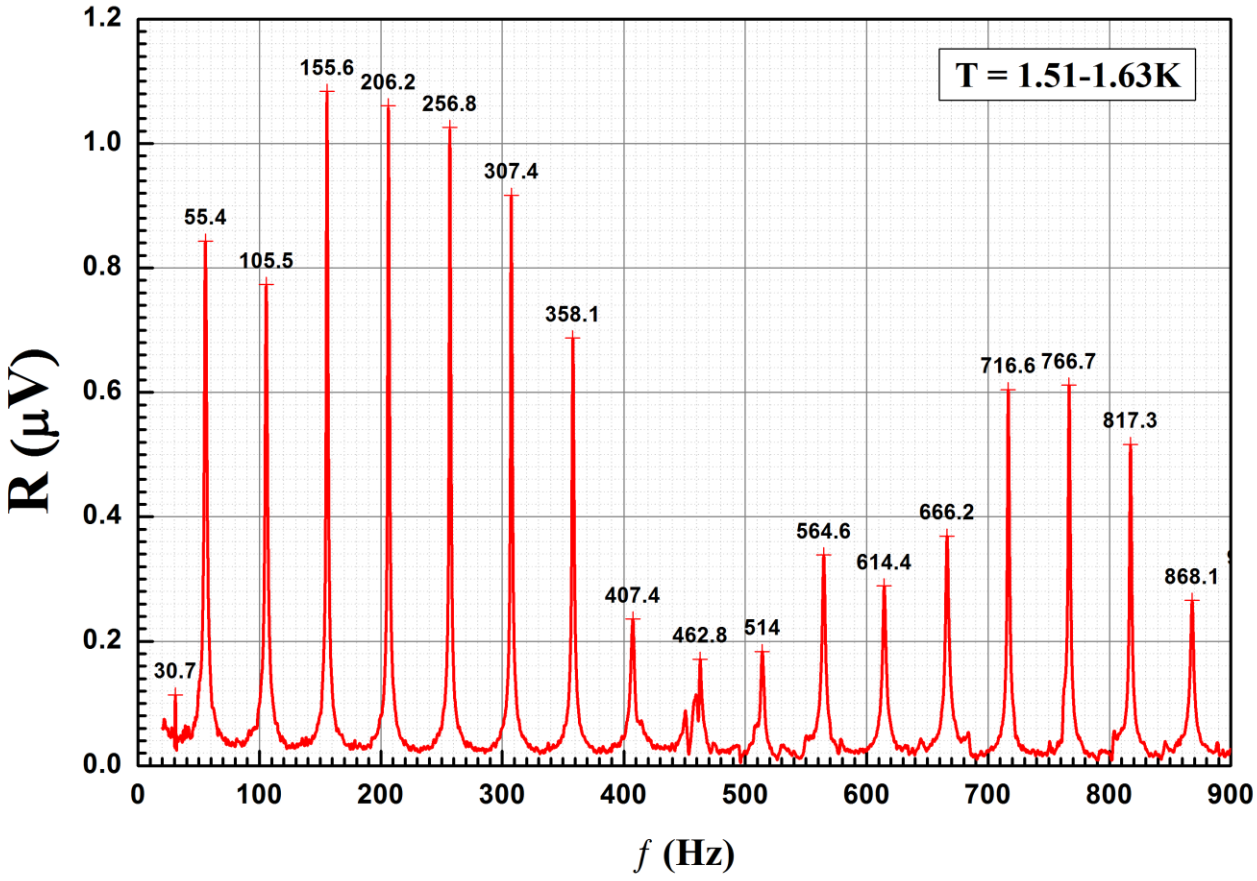


Tunneling 1: Graph9

Sample n2 run8 zoom temp 1.55K

Origin graphs. Examples.

Second sound



Origin graphs. Examples.

Magnet mapping