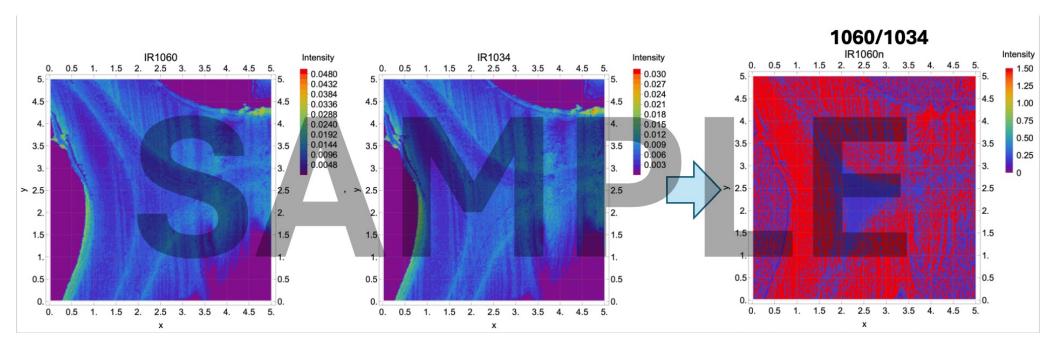
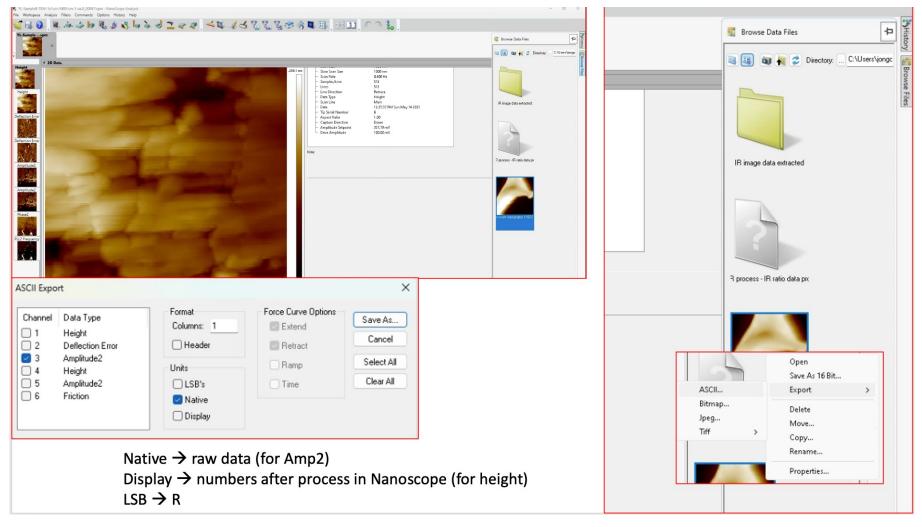
Mathematica code for AFM-IR Ratiomap (v2)

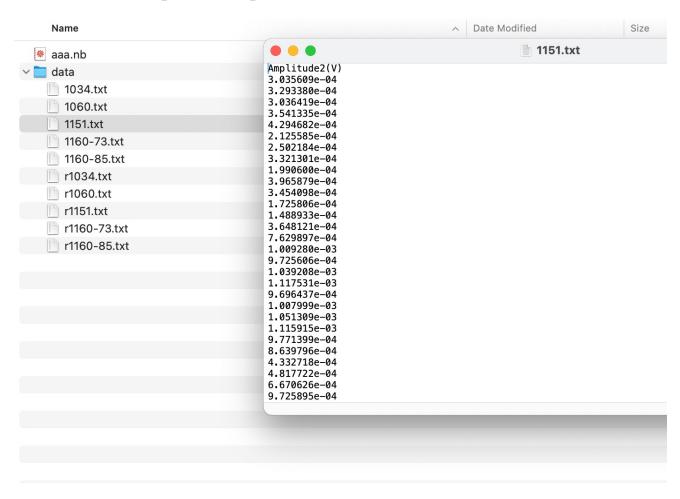
Contact: jongcheol1422@gmail.com



How to expoert Data from Bruker - Nanoscope software.



Check if the txt files are below. First line is the value name. spl x spl values are in one column. Ver. 2



Cells with light yellow background \rightarrow You need to input proper numbers about your data information.

Explanations are in (*exp*)

Ver.2 (nx x ny data in one column, in .txt)

```
In[62]:= $Version
     ClearAll["Global`*"]
     SetDirectory[NotebookDirectory[]]; (*Mathematica file in the proper location*)
Out[62]= 12.3.0 for Mac OS X x86 (64-bit) (May 10, 2021)
   a. Data import and process D
     0. Data information
In[65]:= Lx = 5; (*um-scanned area *)
       Ly = 5; (*um-scanned area *)
       dim = 256; (*sample per line *)
       nx = dim;
       ny = dim;
     1. Data import
       allFiles = FileNames["*.txt", "sample data"]; (*import .txt files in the directory name 'data'*)
       allData = Import[#, "Data"] & /@ allFiles;
       allData // Dimensions (*Check how many .txt files were imported*)
Out[71]= \{10, 65537, 1\}
       allData2 = Table[i, {i, 1, Length[allData]}];
       For[i = 1, i ≤ Length[allData],
       allData2[i] = Drop[allData[i], 1]; (*Drop the first line (names)*)
       i++]
       allData // Dimensions
```