

How to use Image2Data?

yc97463240 19-03-2014

1. run *image2data* in matlab
2. import file
3. set axis value
4. pick axis points (xmin->xmax->ymin->ymax)
5. pick curve points (move the mouse near to the picking point and button down "Ctrl")
6. preview
7. modify picking (delete or adding points)
8. export data

0 Run image2data

Method 1: recall image2data from the command window

The image shows the MATLAB R2012b interface. The Command Window is active, displaying the command `image2data` entered at the prompt. A red rectangle highlights the command. The `image2data` dialog box is open, showing a welcome message and a four-step process for importing and processing an image. The dialog box includes buttons for zooming, panning, and saving, as well as input fields for coordinates and a dropdown menu for the XY coordinate system.

Command Window

```
fx >> image2data
```

image2data

zoom on pan on pan/zoom off zoom out

Welcome to Image2data!

This version is for Matlab 2012b.
Other versions can be freely downloaded from
www.useful2you.com

Many thanks for your suggestions to
yc97463240@126.com

step1 Import Graph Clear Graph Quit

step2 xmin xmax ymin ymax XY: Line-Line
0 1 0 1

step3 Pick Axis Pick Curve (0.000,0.000)

step4 Preview Delete Points Save

Are you ready? Let's go!

Current Folder

- code.tar.gz
- data.txt
- figure1.jpg
- image2data.fig
- image2data.m

Workspace

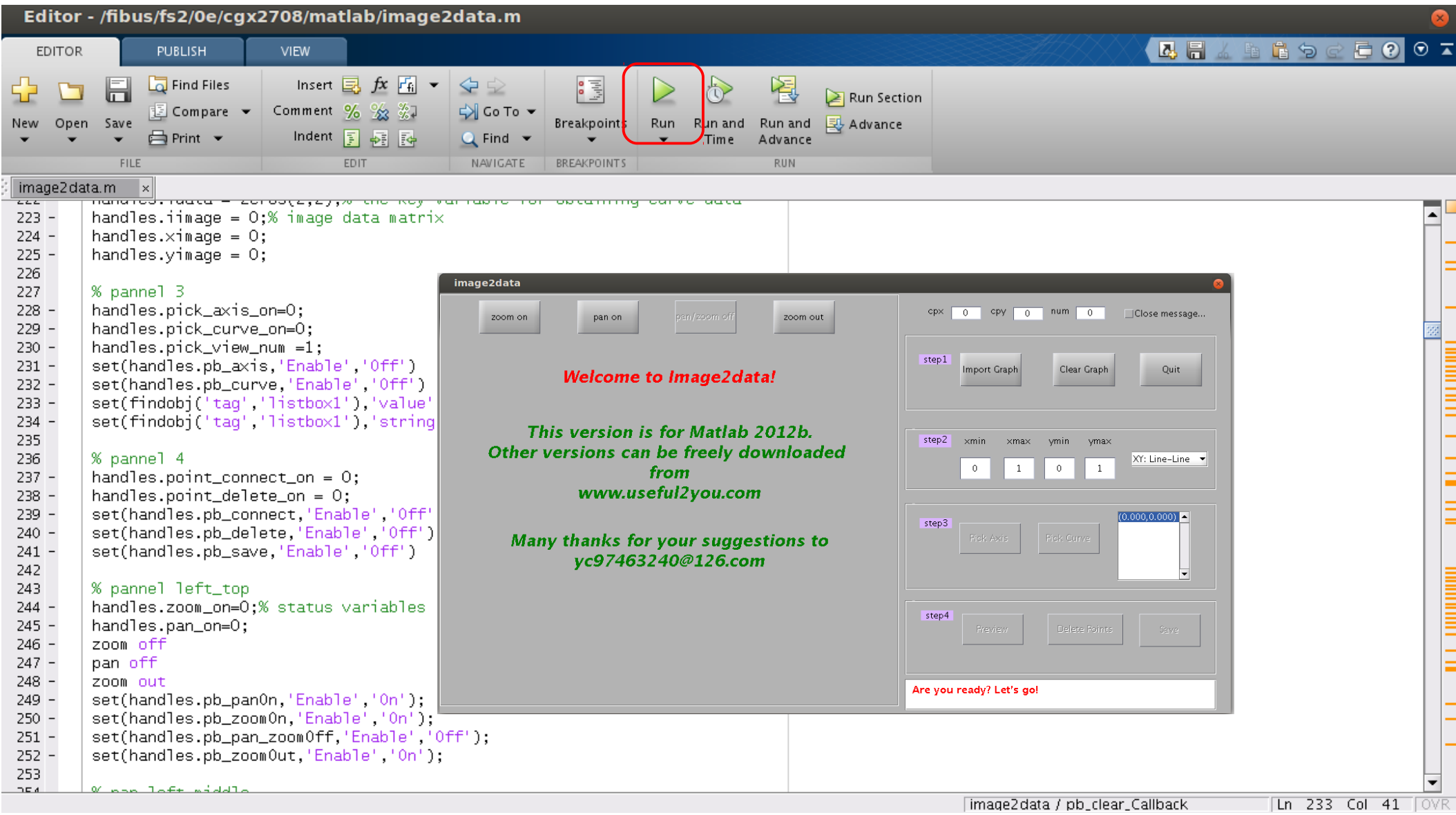
Name	Value	Min
------	-------	-----

Command History

```
%-- 03/19/14 02:40:11 PM --%  
image2data
```

0 Run image2data

Method 2: recall image2data from the editor window



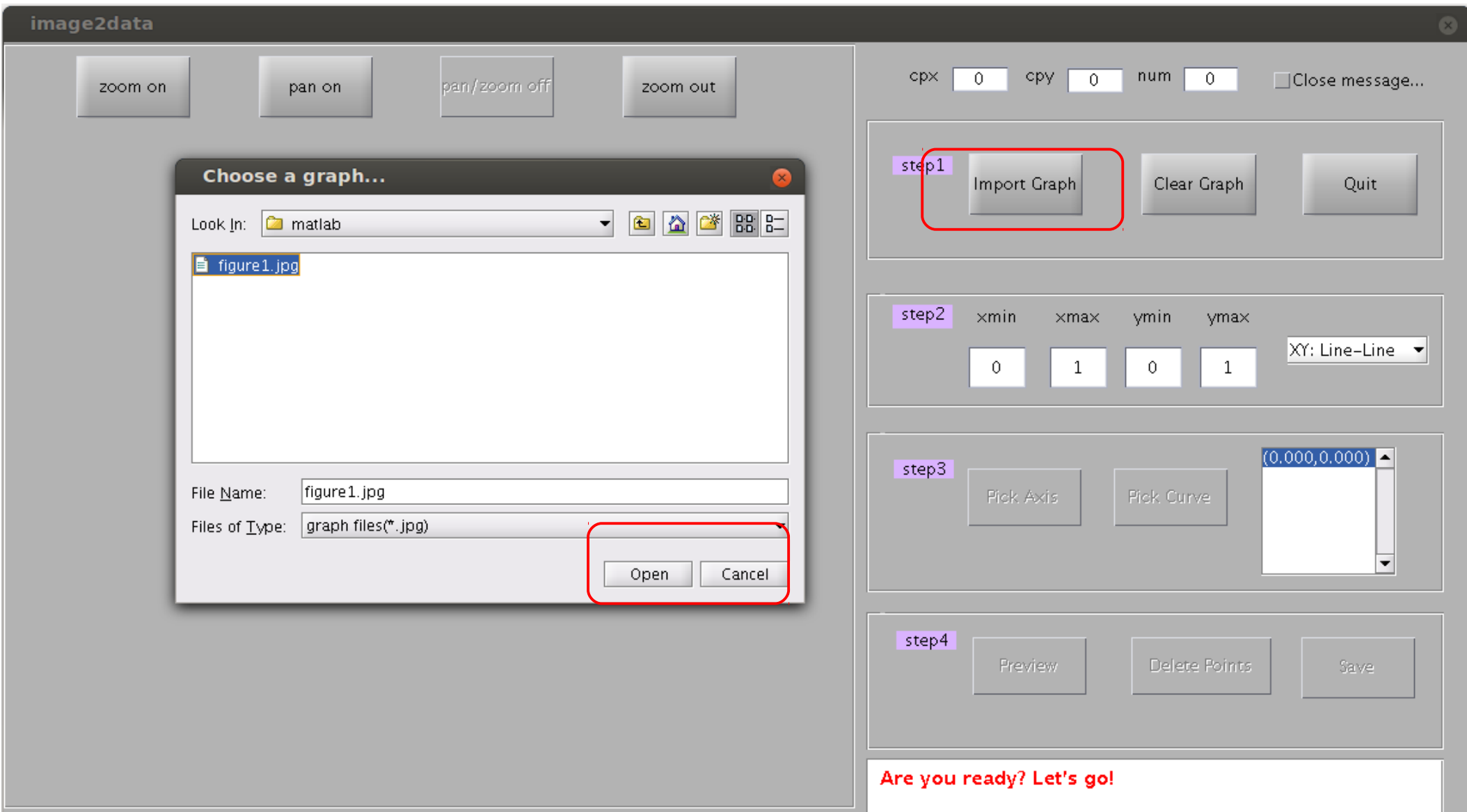
0 Run image2data

Method 3: recall image2data from the GUI editor window



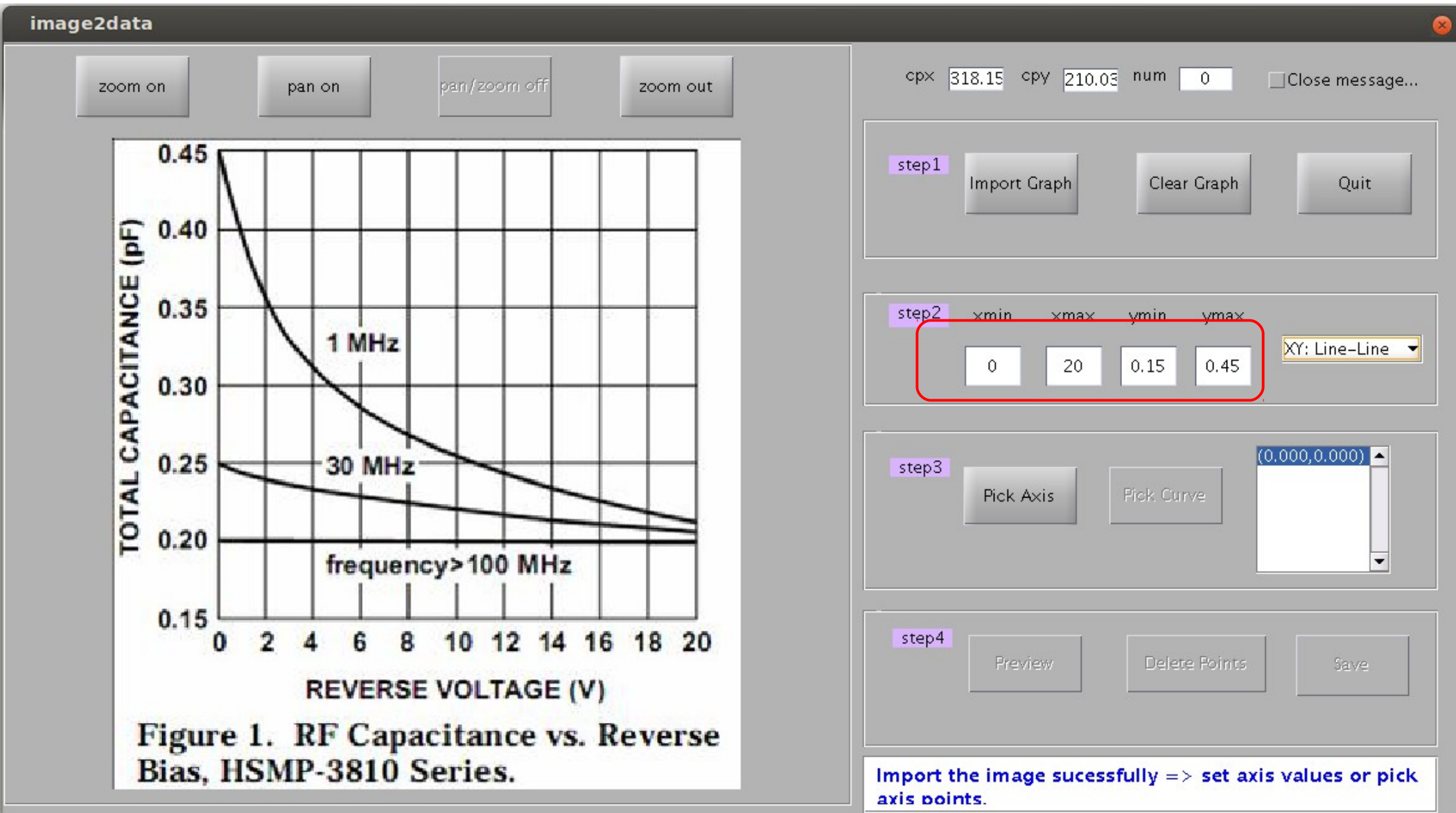
1 Import file

Click the “Import Graph” button to import file



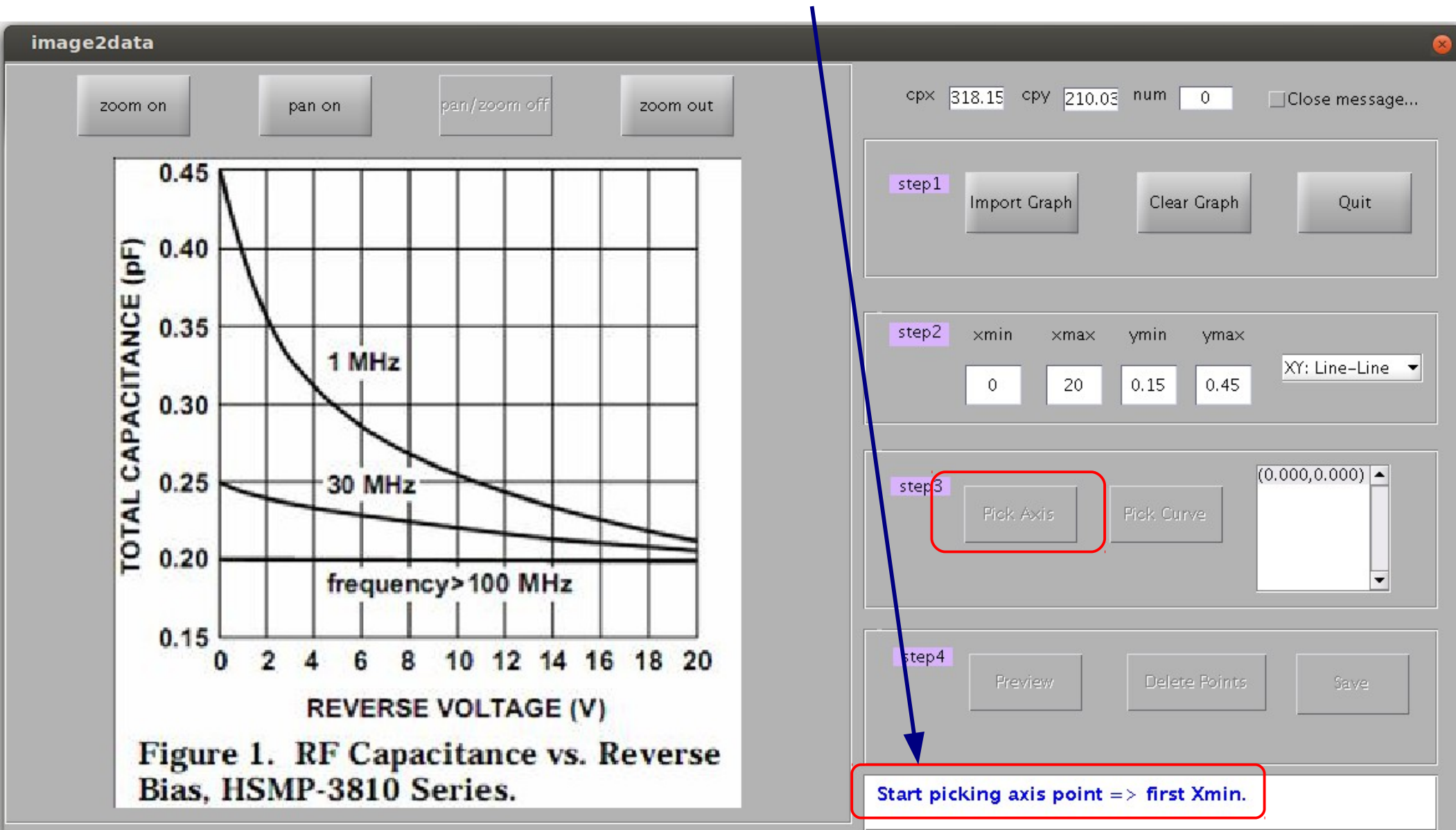
2 Set axis value

Set the range of x-axis and y-axis



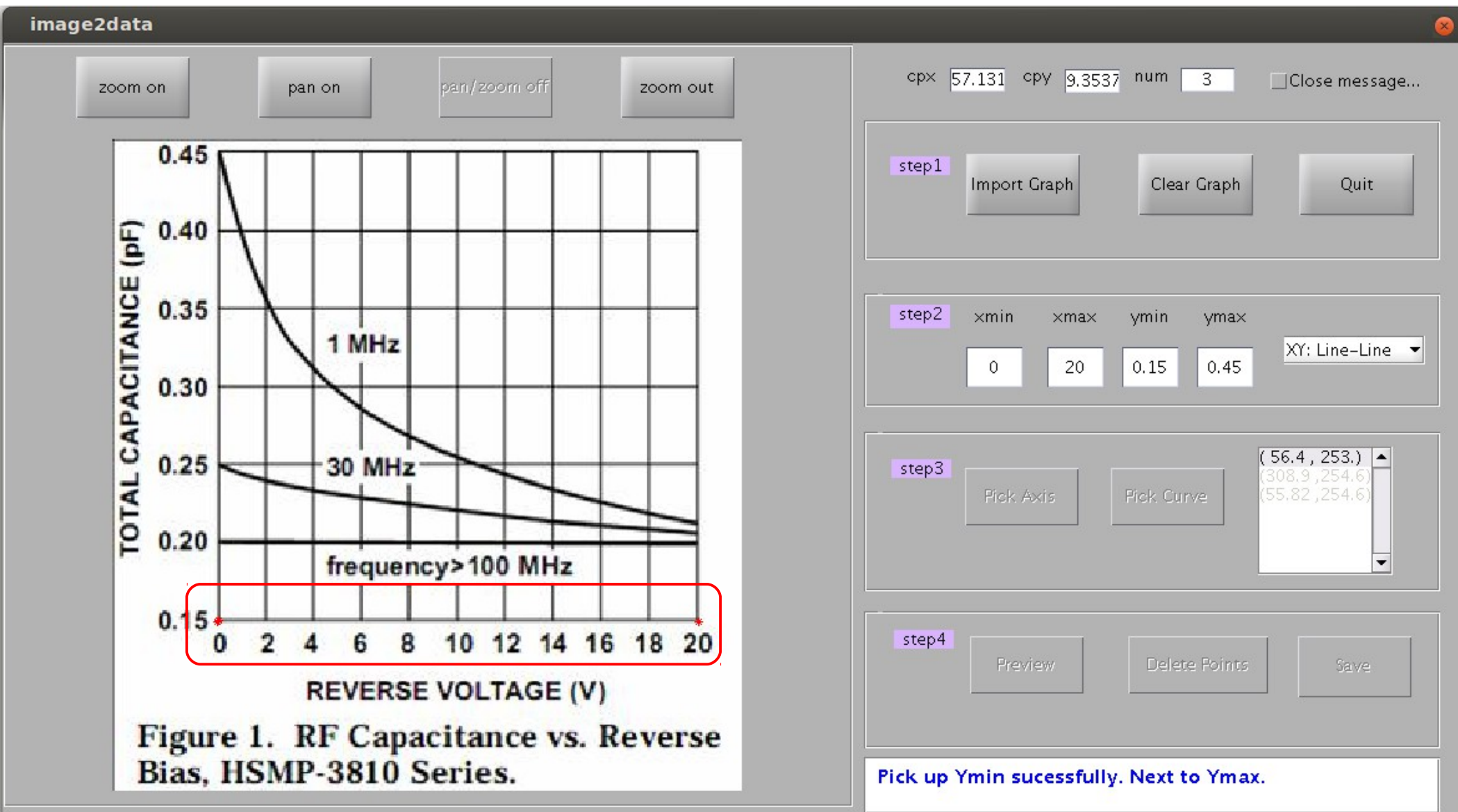
3 Pick up axis points

Click the “Pick Axis” button, then move the mouse near to the curve and button down “Ctrl” once to pick one point. All the operation and introduction will be shown in the msg box.



3 Pick up axis points

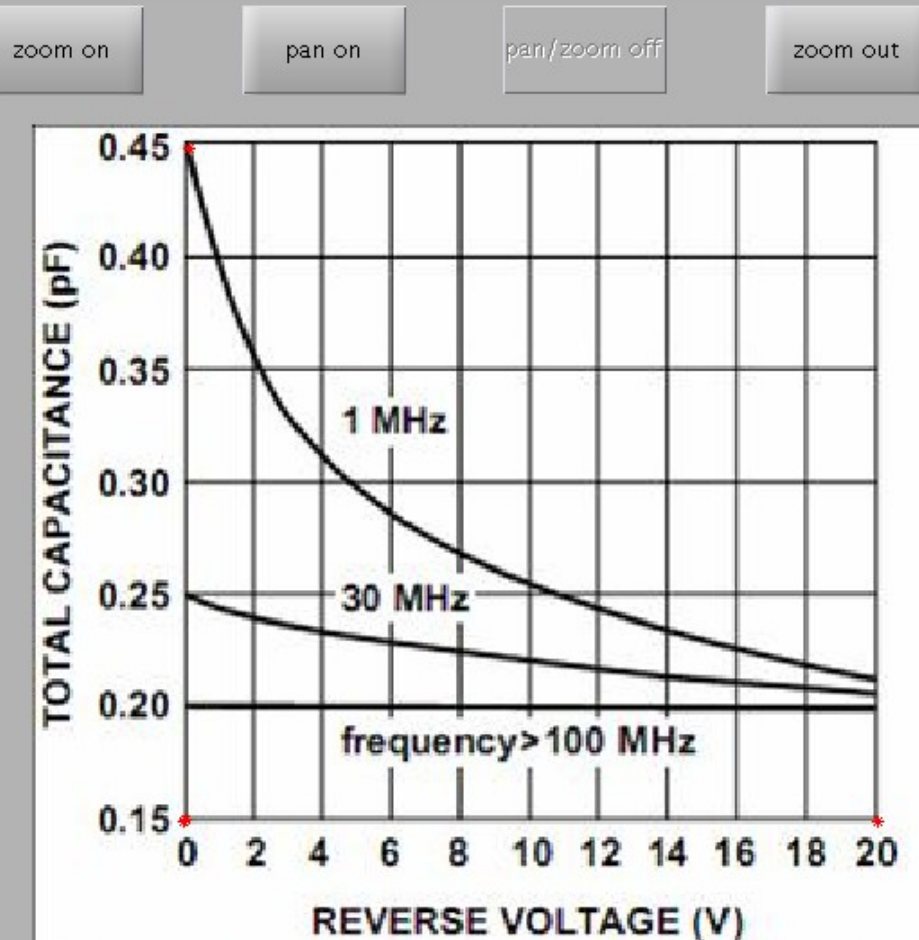
The subroutine will record and show the picking points.



3 Pick up axis points

After picking up four axis points, the “Pick Curve” button will be effective. Then click it to start curve points picking. The list on the right will show the point's coordinate real time。

image2data



cpX 1.3862 cpy 1.4837 num 4 ☐ Close message...

step1

Import Graph

Clear Graph

Quit

step2

xmin

xmax

ymin

ymax

0

20

0.15

0.45

XY: Line-Line

step3

Pick Axis

Pick Curve

(56.4, 253.)
(308.9, 254.6)
(55.82, 254.6)
(57.78, 9.353)

step4

Preview

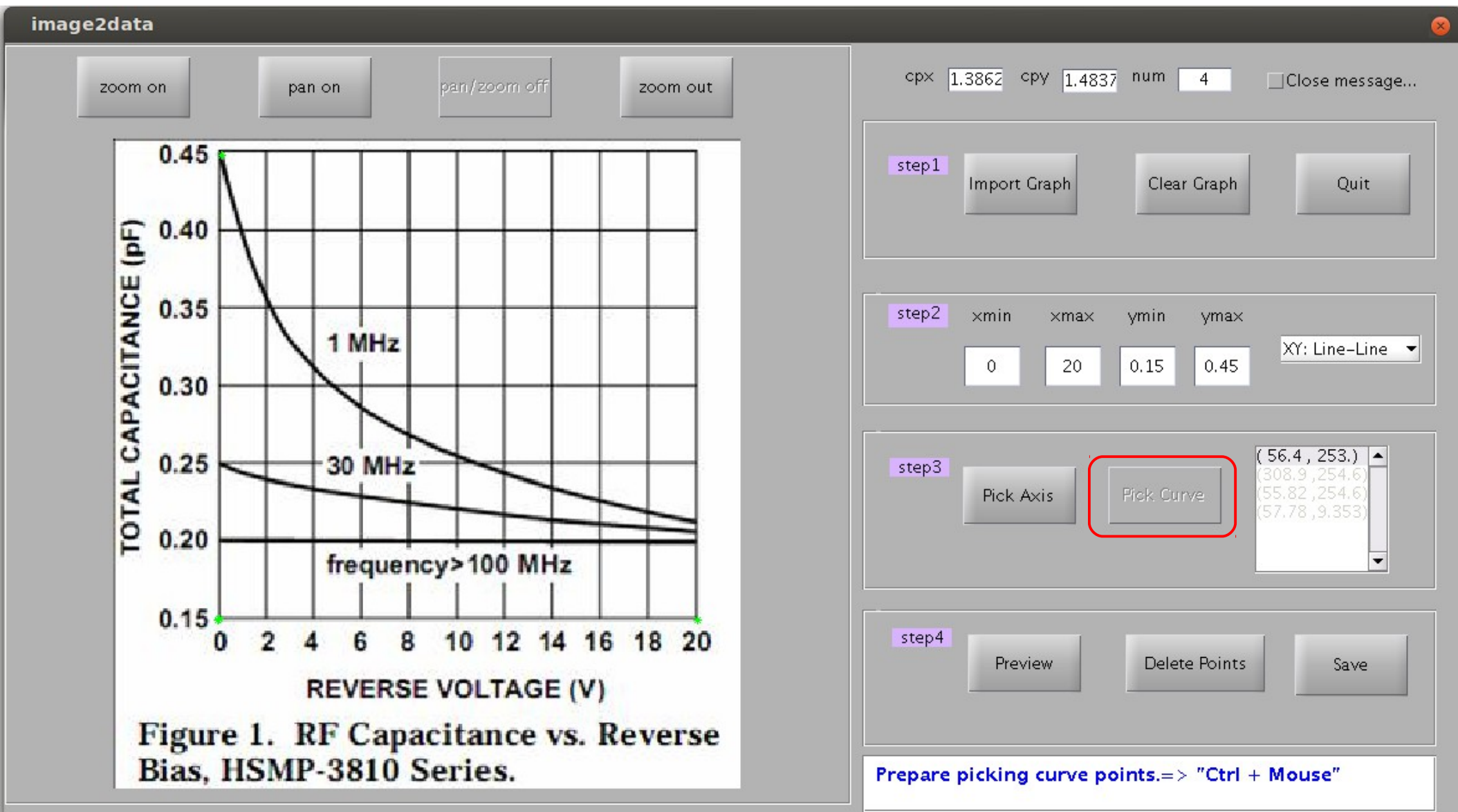
Delete Points

Save

Pick up Ymax sucessfully. Next to pick curve.

4 Pick up curve points

The points picking method is the same as last step, i.e. Mouse position + Ctrl.



5 Preview

No matter whether you have picked up all the curve points or not, you can click the “Preview” button to preview. Once you click it, the picking operation is stopped. If you want to go on picking up curve points, you need to click the “Pick Curve” button again.

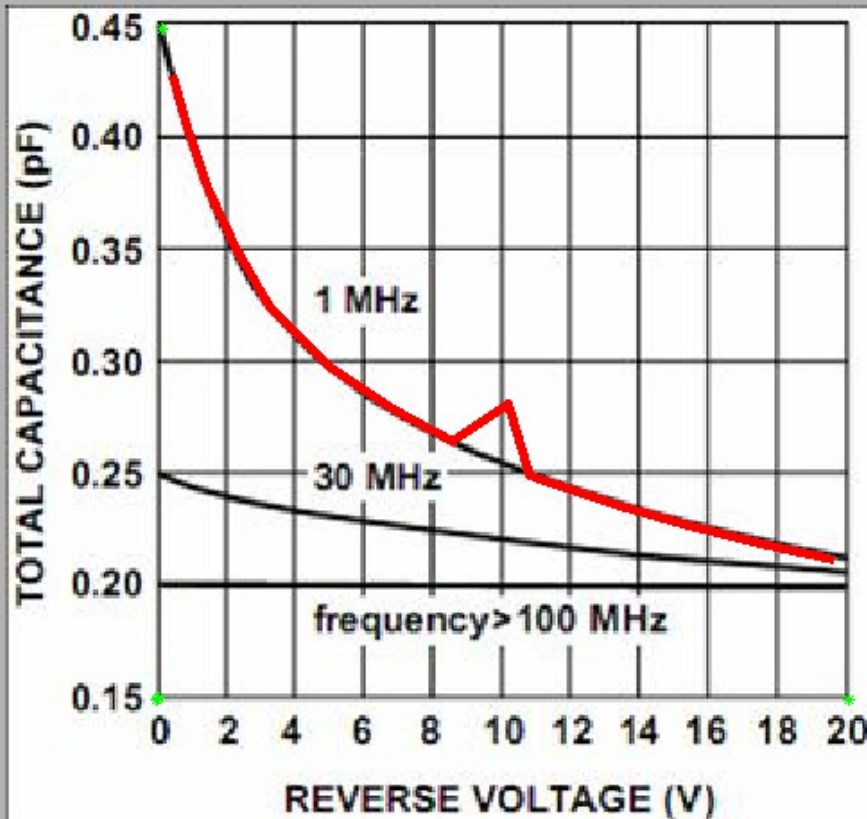
image2data

zoom on

pan on

pan/zoom off

zoom out



cp_x 0.7304 cp_y 63.787 num 18 ☐ Close message...

step1

Import Graph

Clear Graph

Quit

step2

xmin

xmax

ymin

ymax

0

20

0.15

0.45

XY: Line-Line ▼

step3

Pick Axis

Pick Curve

(56.4, 253.)
(308.9, 254.6)
(55.82, 254.6)
(57.78, 9.353)
(61.72, 26.40)
(66.96, 45.42)
(74.83, 68.37)

step4

Preview

Delete Points

Save

The view is updated, go on picking data or save directly?

6 Modify

If you find you have picked a point by mistake, then click the “Delete Points” button, go to right list, pick up the row of the wrong coordinate, button down “Delete” in the keyboard, and the point is delete back top.

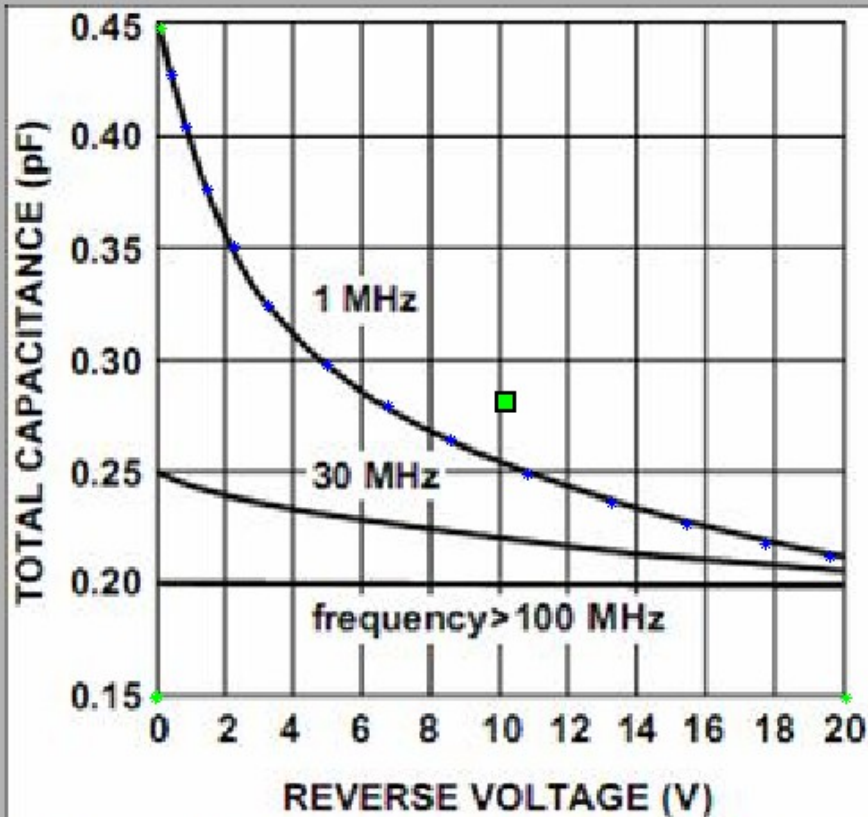
image2data

zoom on

pan on

pan/zoom off

zoom out



cpX 323.39 cpy 164.13 num 18 ☐ Close message...

step1

Import Graph

Clear Graph

Quit

step2

xmin

xmax

ymin

ymax

0

20

0.15

0.45

XY: Line-Line

step3

Pick Axis

Pick Curve

(164.0, 160.7)
(192.2, 172.6)
(223.0, 183.1)
(250.6, 191.0)
(279.4, 198.2)
(303.0, 202.8)
(184.3, 146.4)

step4

Preview

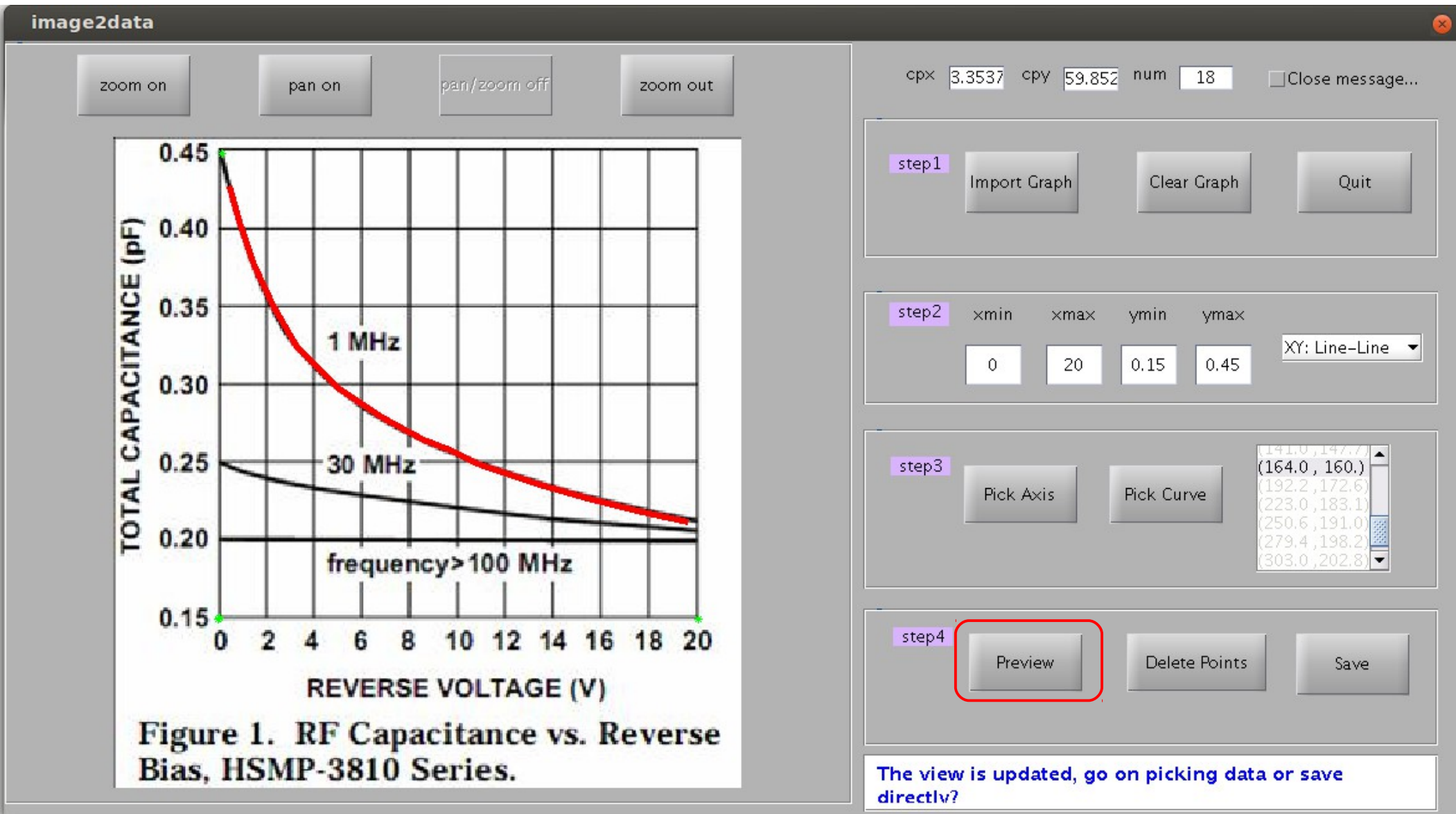
Delete Points

Save

Prepare selecting curve points. => "Ctrl + Mouse"

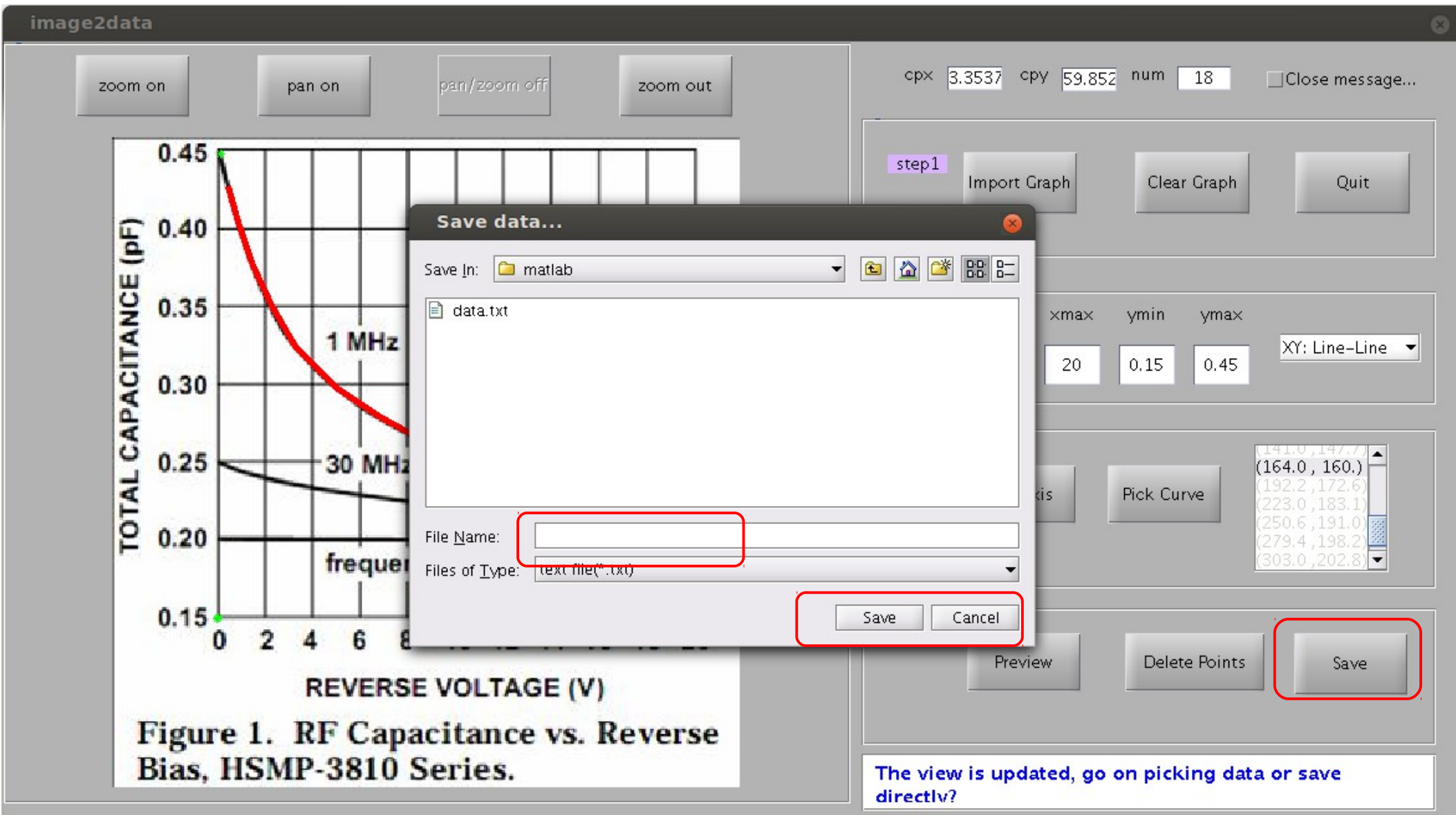
6 Modify

After the modify operation, you can either go on picking points, or preview, or save data.



7 Export data

If you are satisfied with the previewing results, the directly click “Save” button. Then a saving dialog will be opened to help you save the curve data.



How to use Image2Data?

Thank you for your attention !

Any questions or interesting ?