University of Arizona
CAMECA SX100

Quantitative Acquisition

Step 1
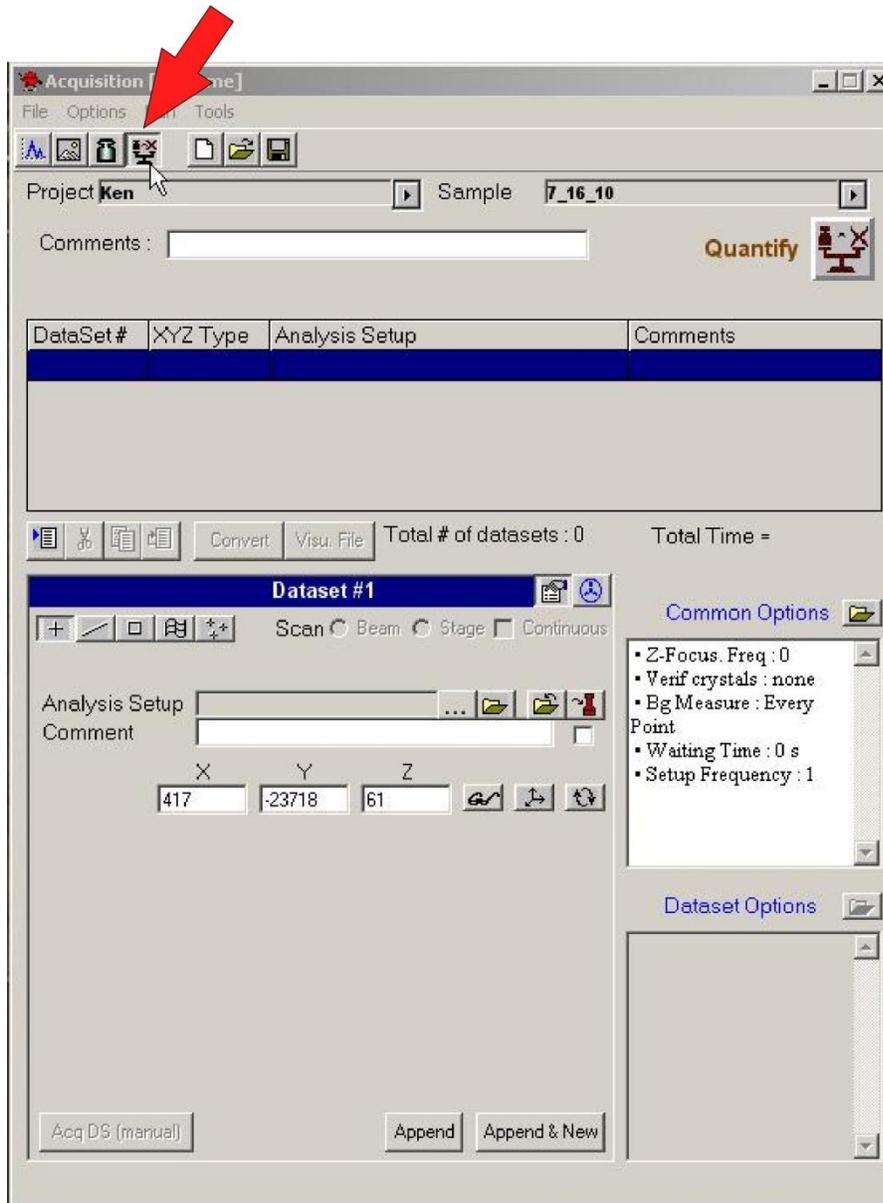## If Necessary - Open the Acquisition Window.

Press This Button

Step 2
Select the Quantitative Analysis Icon.

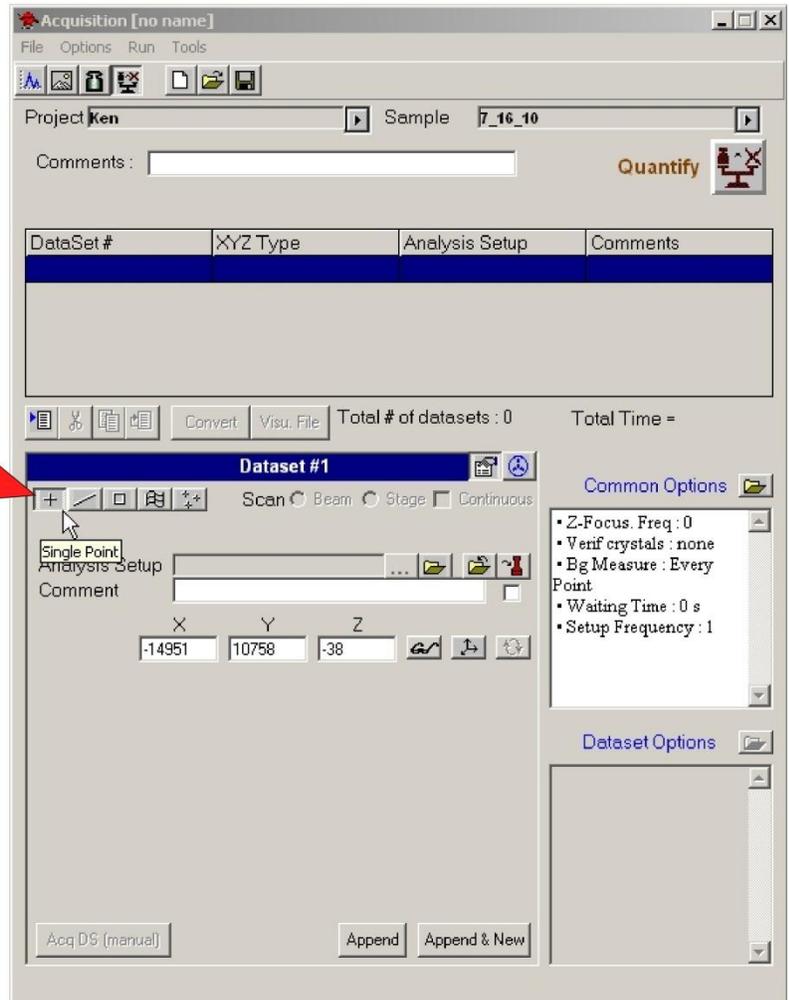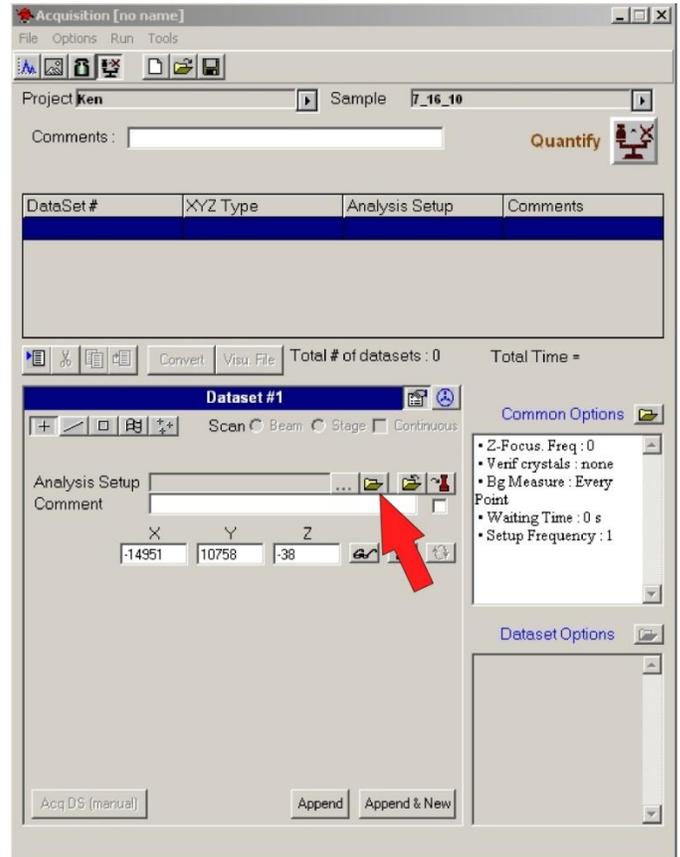# Press This Button

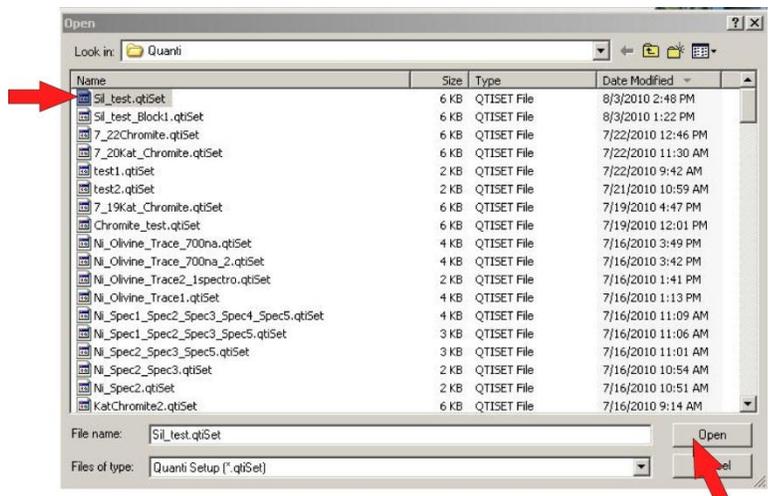# Step 3
For Single Point Analysis:

Press This Button

Step 4
Select an Analysis Setup File.

Press This Button

then

Select a File

Step 5
Move to a point on the sample you want to analyze.
Note: Be sure to focus Optically and also check that you are on the correct phase at high magnification (66um) in the SEM image.

Step 6   IMPORTANT
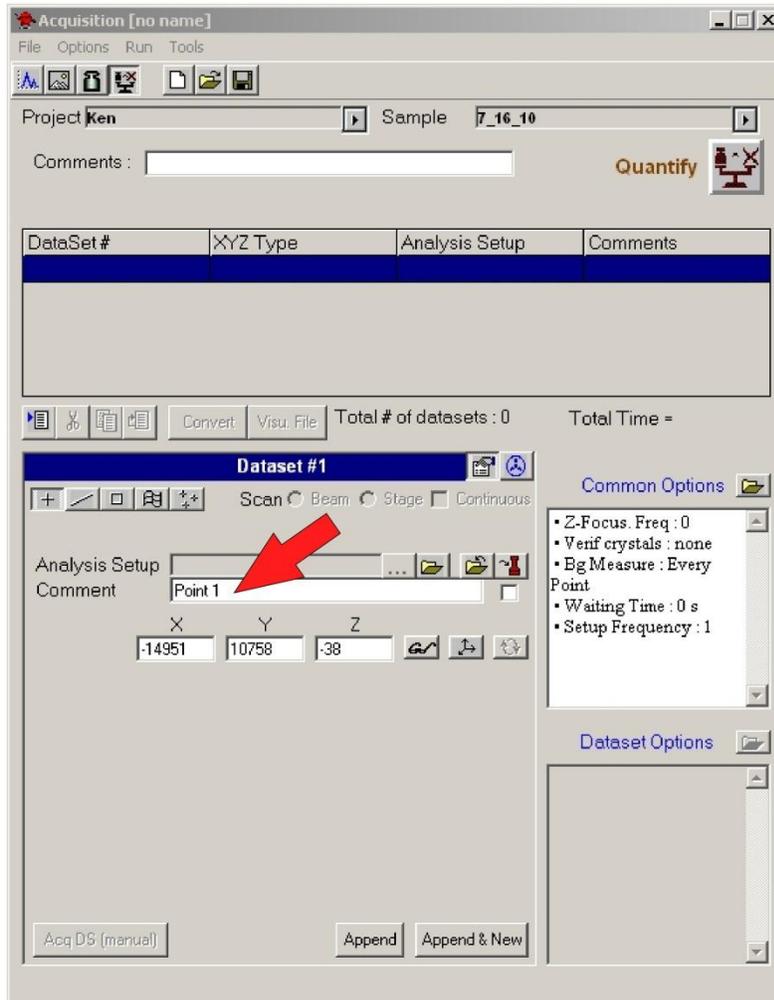## Set the coordinates of the analysis point.

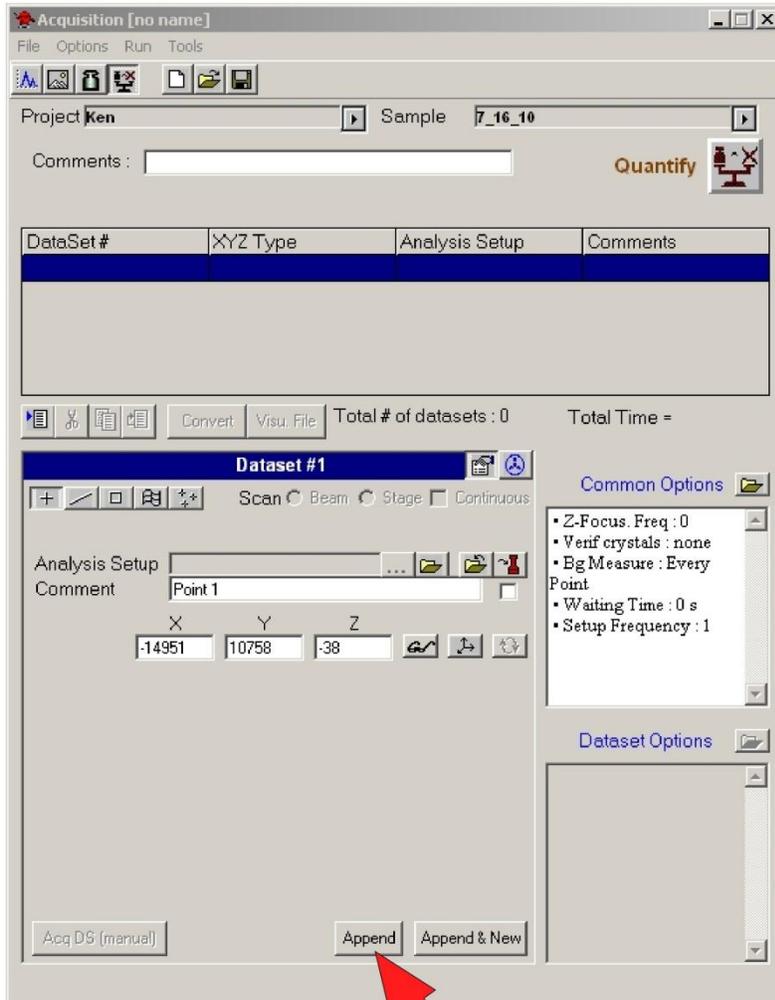**Press This Button**

Step 7
Type in a Comment
Note: This comment will identify the point in the Output File.

Type in a Comment
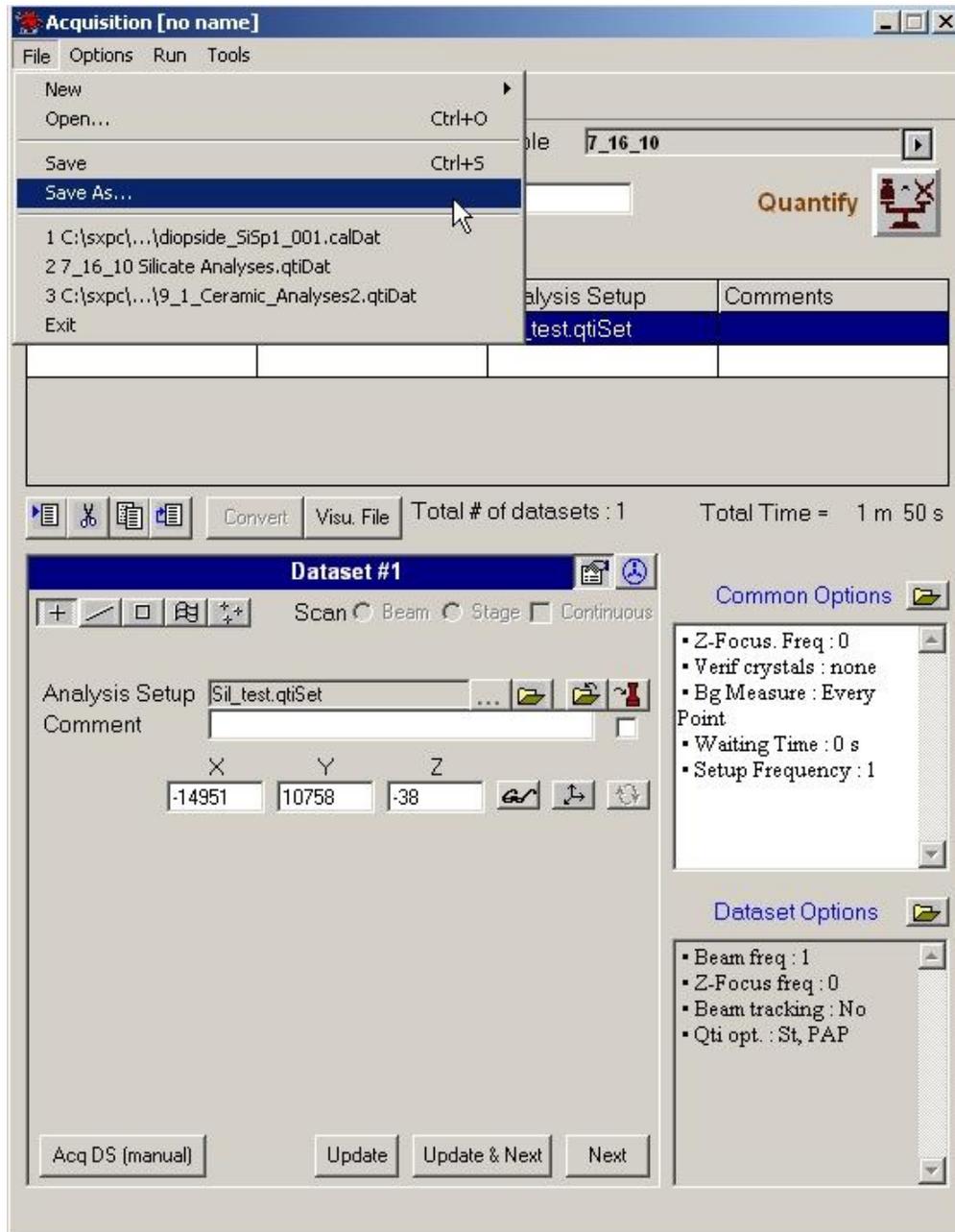
Step 8
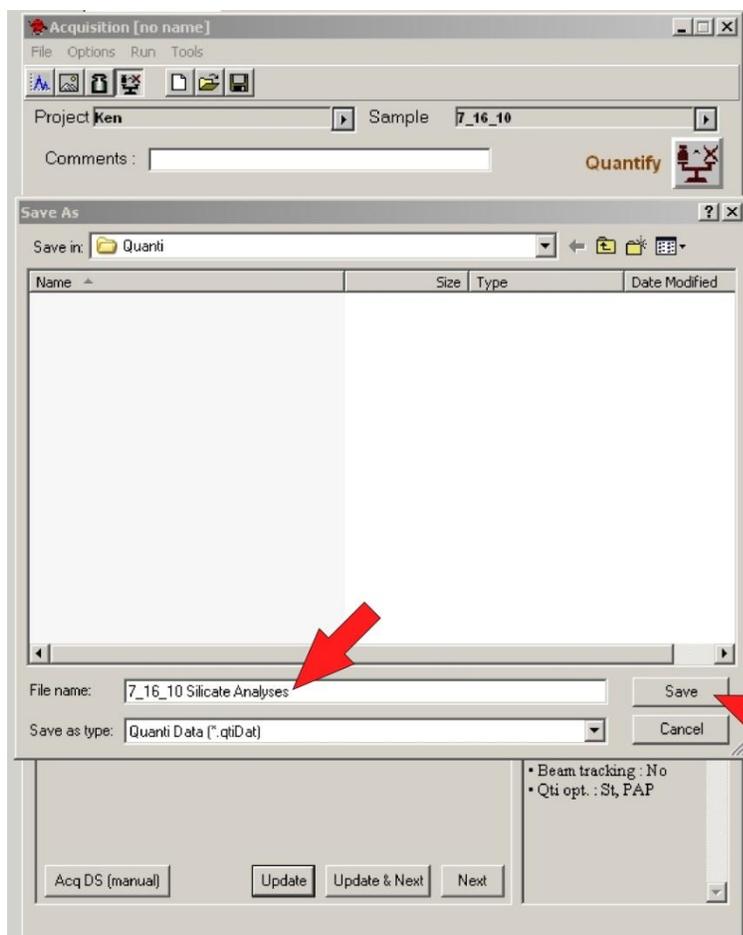## Append the Point to the Acquire List.

Press This Button

Step 9
Save the Acquisition.
Note: The filename given here will be the output filename for all the analyses in this session.

Then

Enter a File Name

then

Press This Button

Step 10 Go to Either:
- Quantitative Acquisition - Point by Point - p. 11
- Quantitative Acquisition - Auto-runs   - p. 18
- Quantitative Acquisition – Line scans   - p. 26

Depending on the type of analysis you are doing.
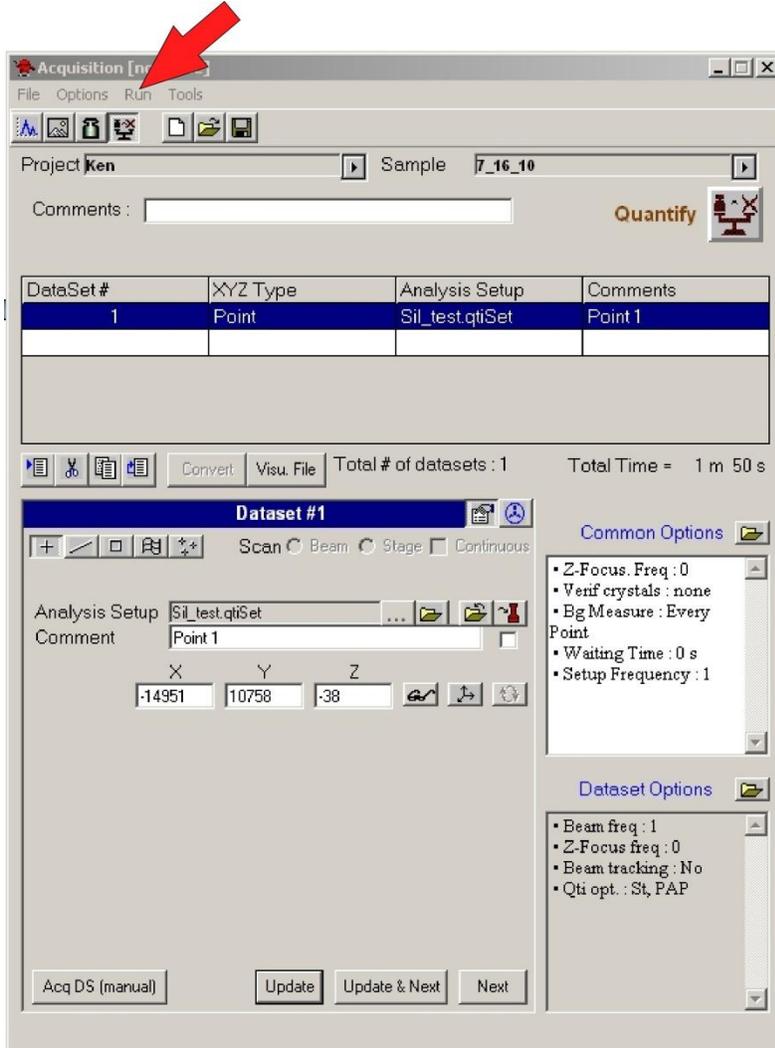
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Quantitative Acquisition
Point by Point

Continued from Quantitative Acquisition Basic Setup Step 10
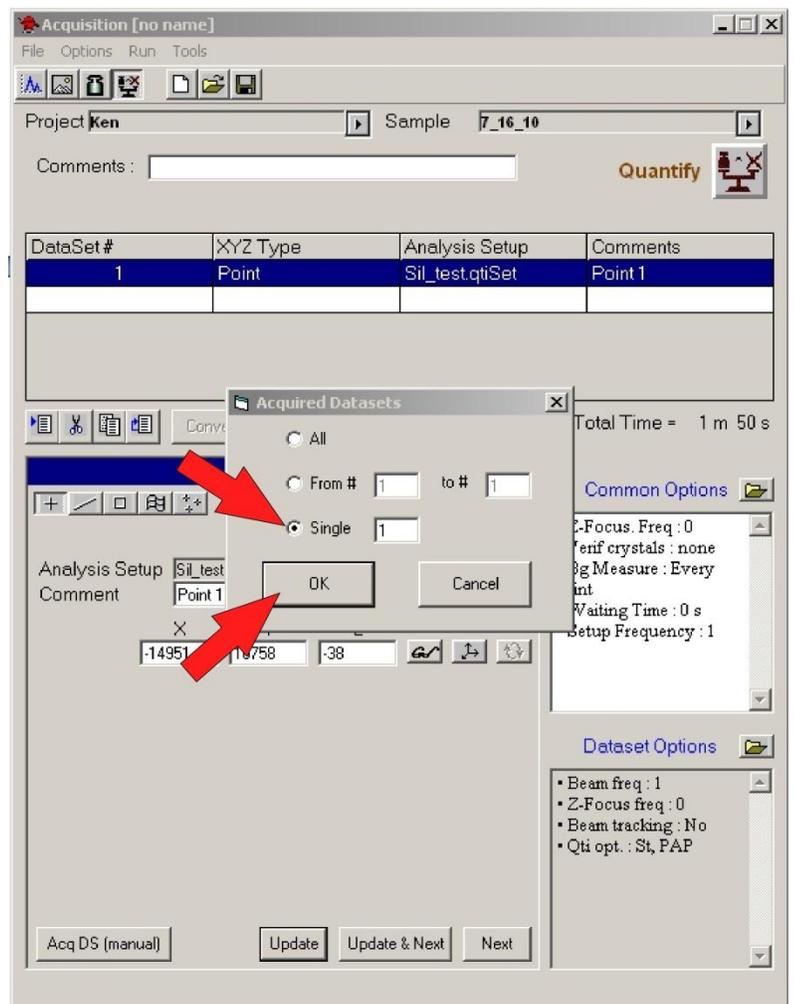
Step 1

Press "Run"

Step 2
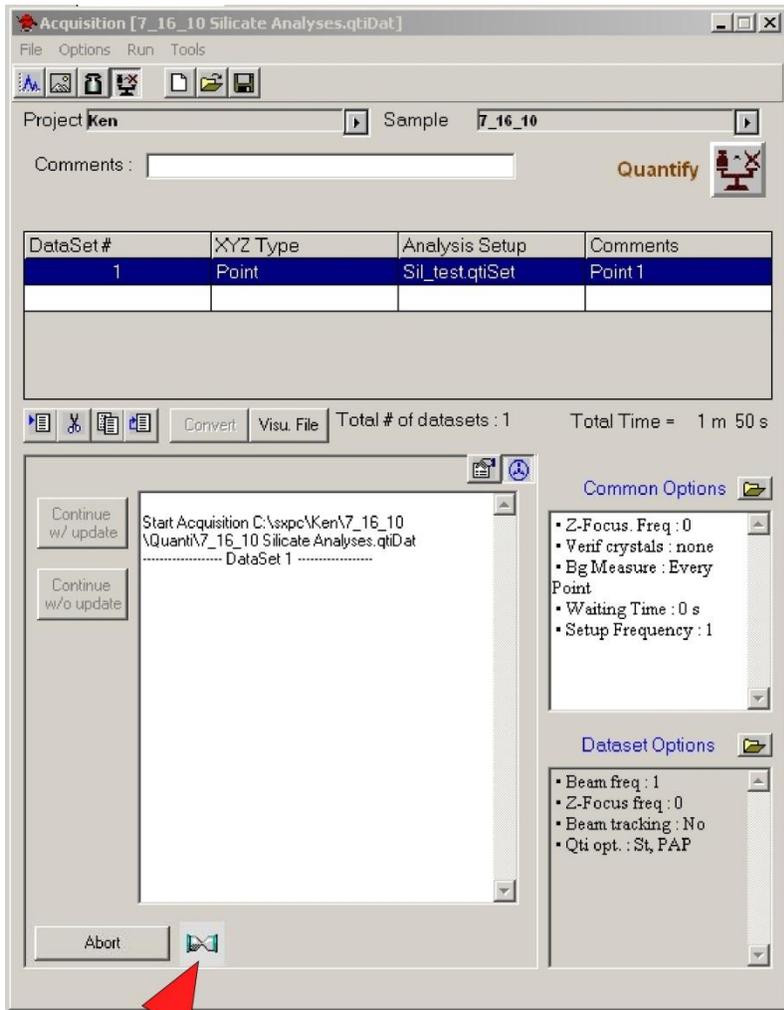# Start the Analysis.

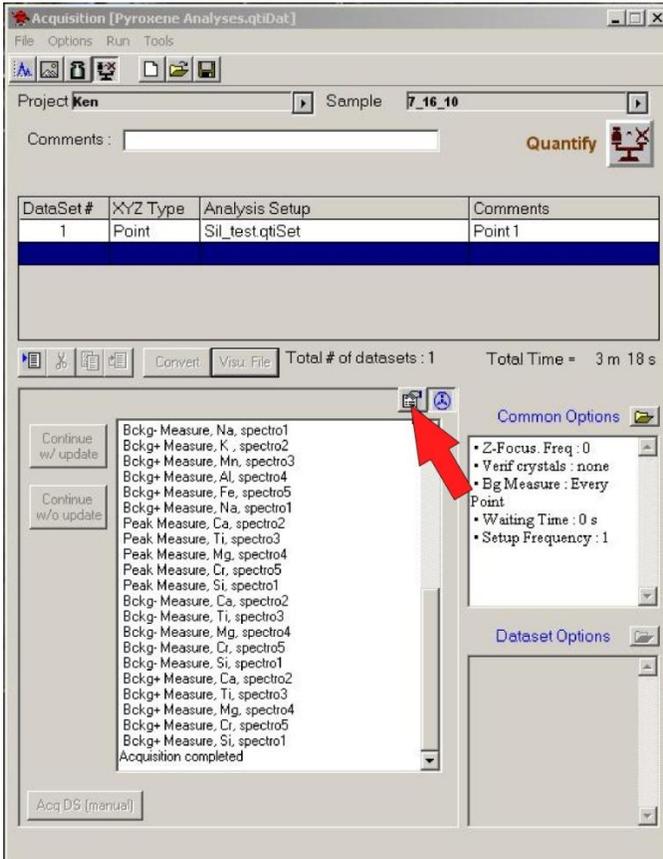## Select "Single"

then

Press This Button

Step 3
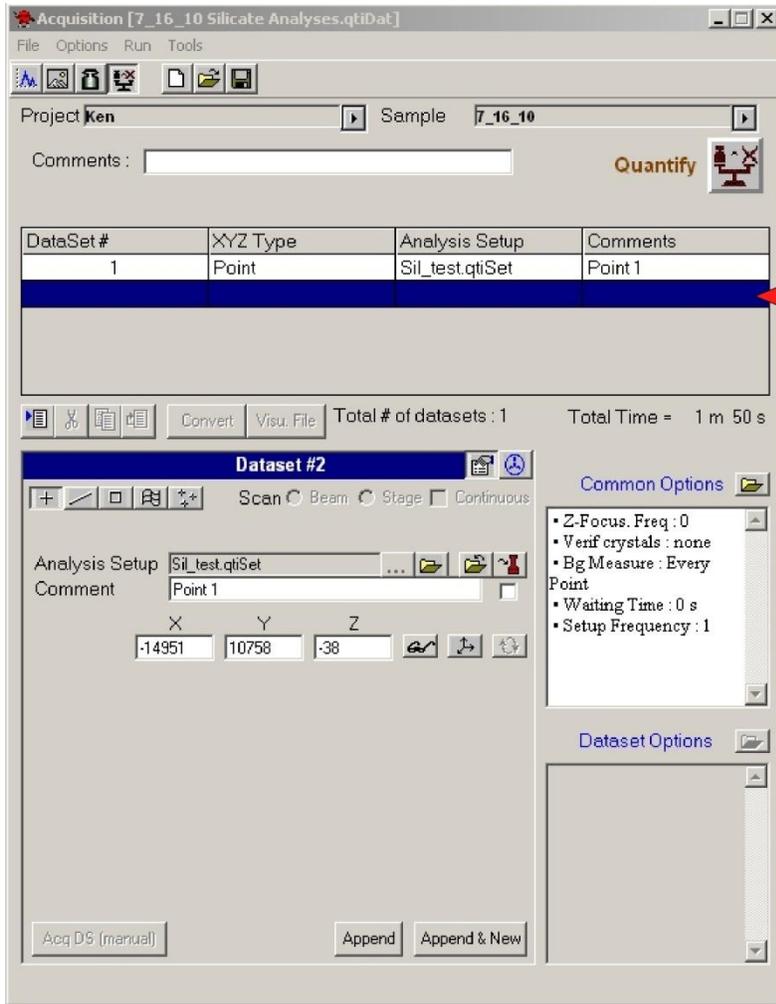# Wait for the analysis to finish.

Wait

Step 4
Go back to the Setup page.

Press This Button
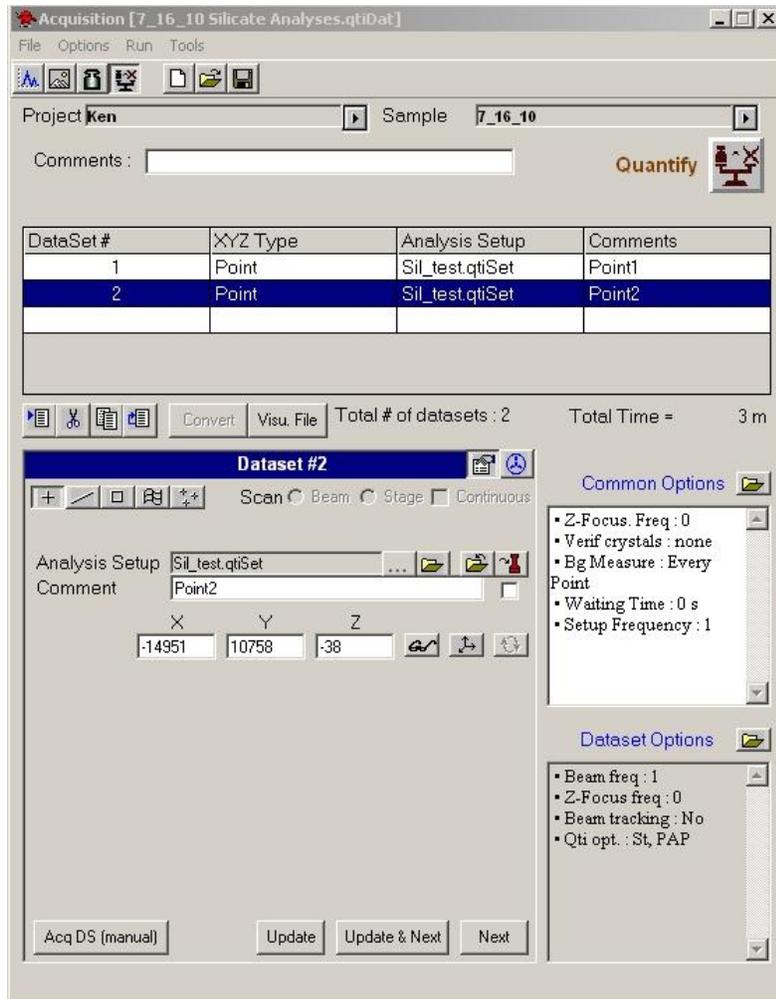
Step 5   IMPORTANT
Highlight the next line

Click on Next Line

Step 6
Set up the next point and add it to the Acquisition List.
(Note: See Quantitative Acquisition Basic Setup - Steps 4 – 8).

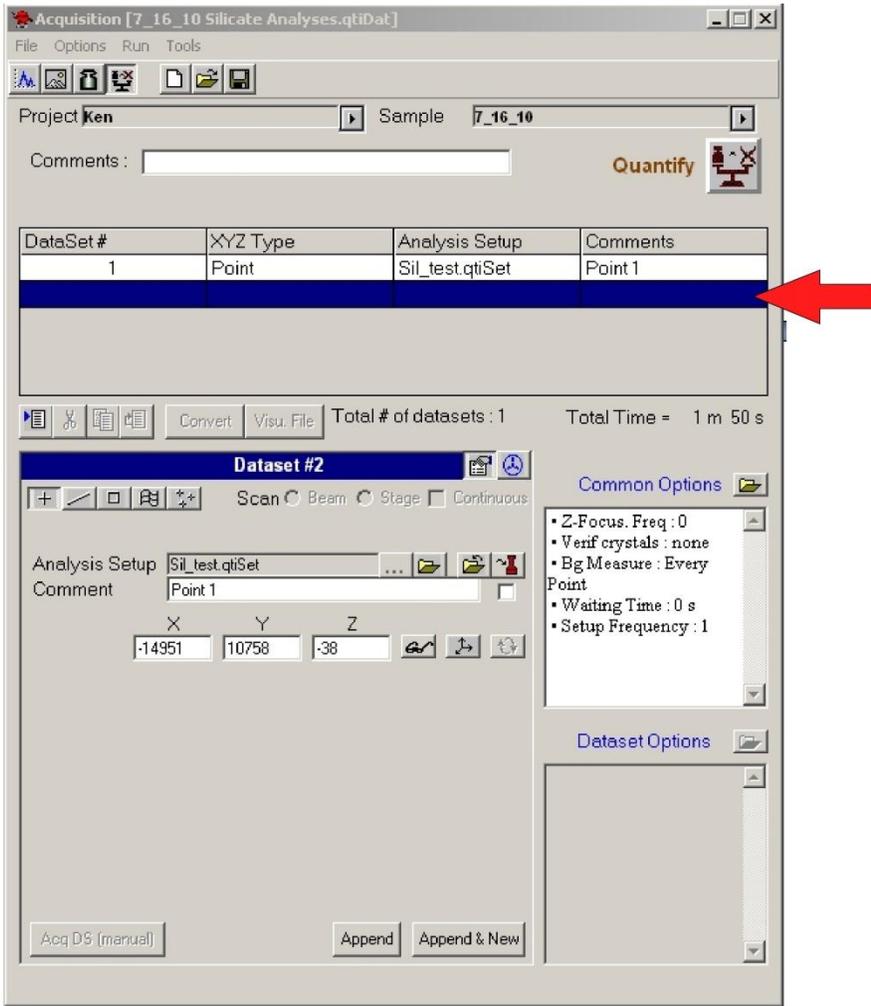# Step 7
Repeat Steps 1 – 6 for each point.

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Quantitative Acquisition
Auto Points

Continued from Quantitative Acquisition Basic Setup Step 10

Step 1

Highlight the next line

Step 2
Setup another point on the sample you want to analyze
Note: (See Quantitative Acquisition Basic Setup - Steps 4 – 8)

Step 3
Append the Point to the Acquire List by clicking the "Append and New" button.

Press This Button

Step 4
Repeat steps 2-3 until you have set all the points you want to analyze in the Auto Run.

Step 5
Turn on the Autofocus

Select the points to you want autofocused.
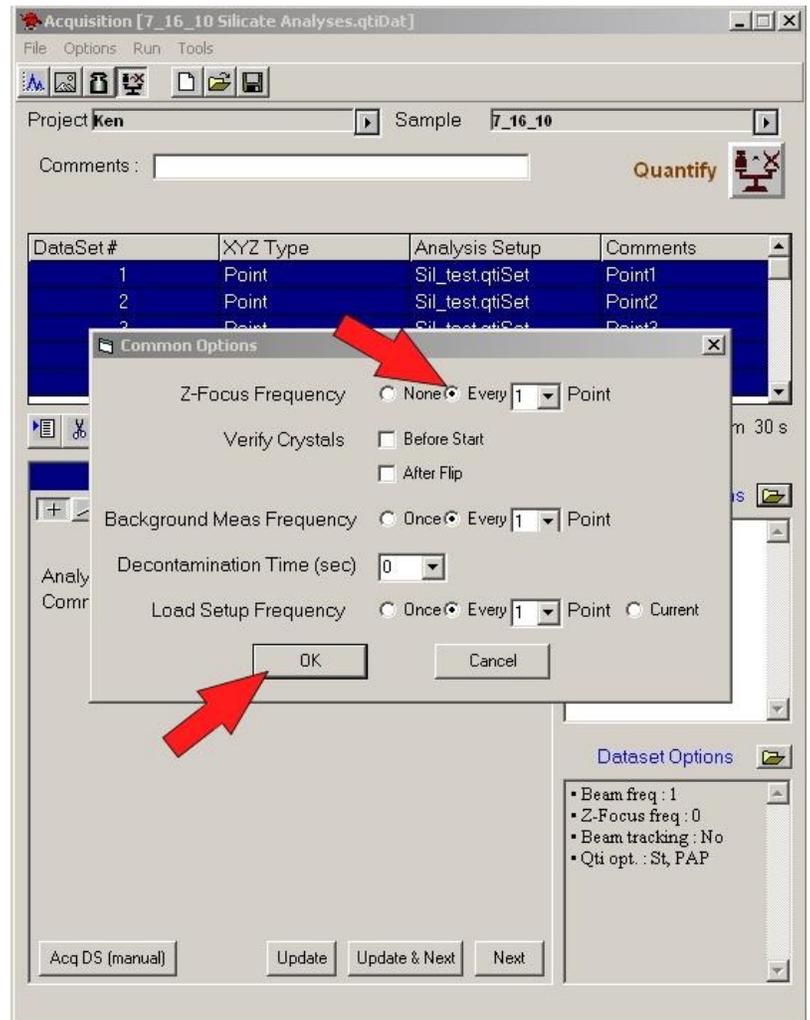
Then

Press This Button

Step 6
Select Z-Focus Frequency – "Every" in the pop-up window.
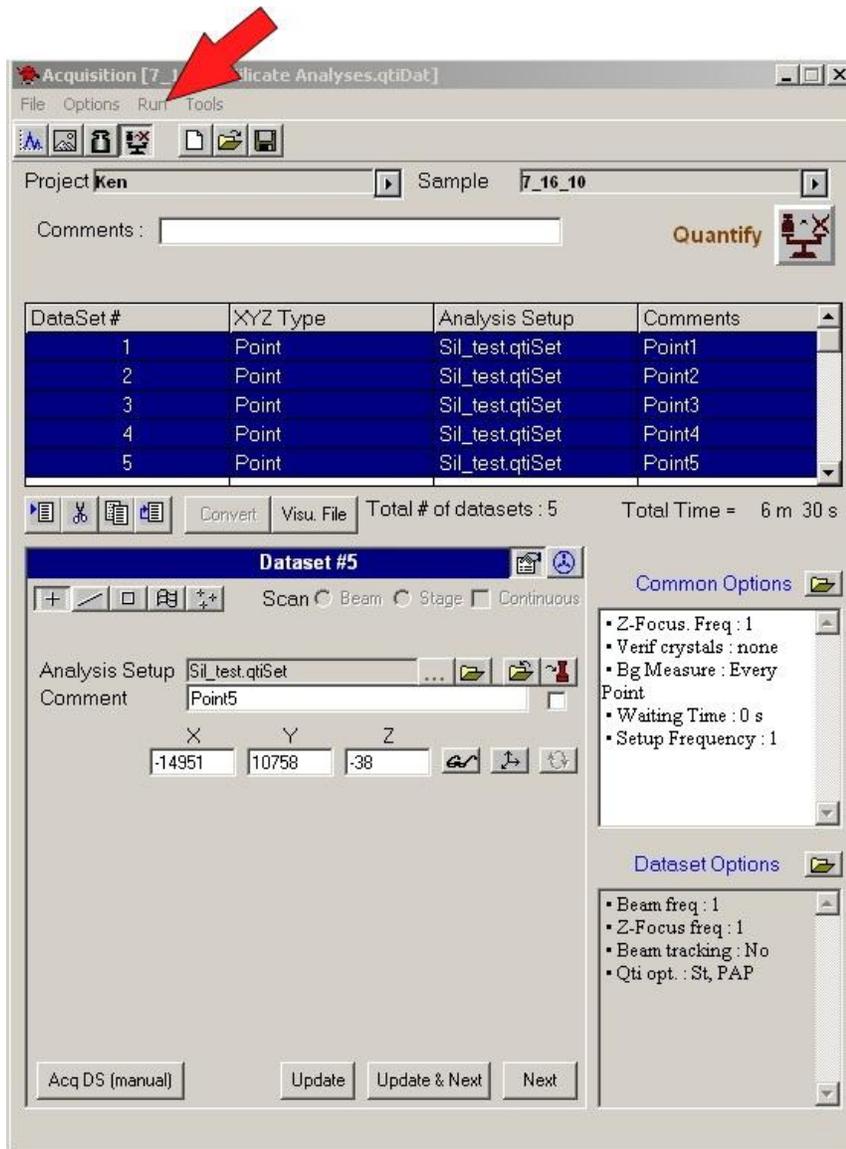
Select: "Every"
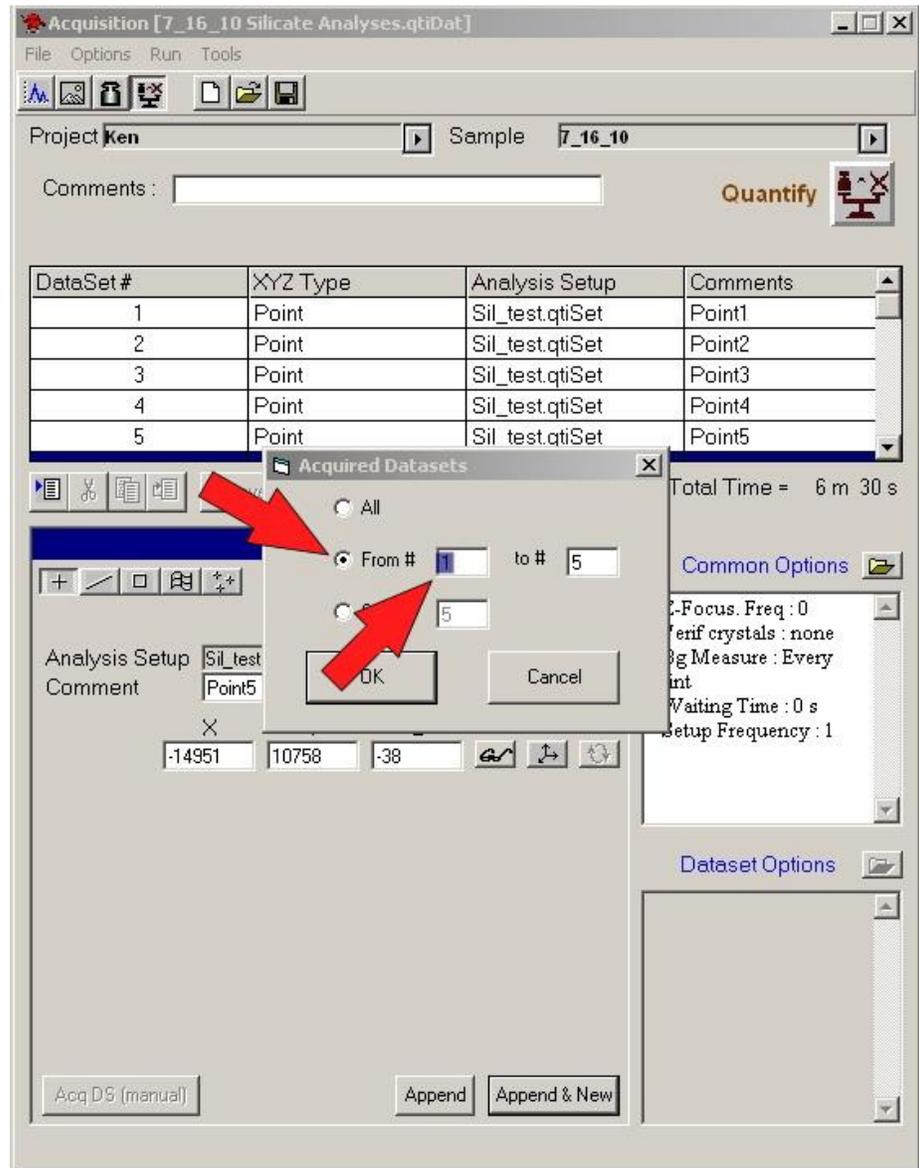
Then

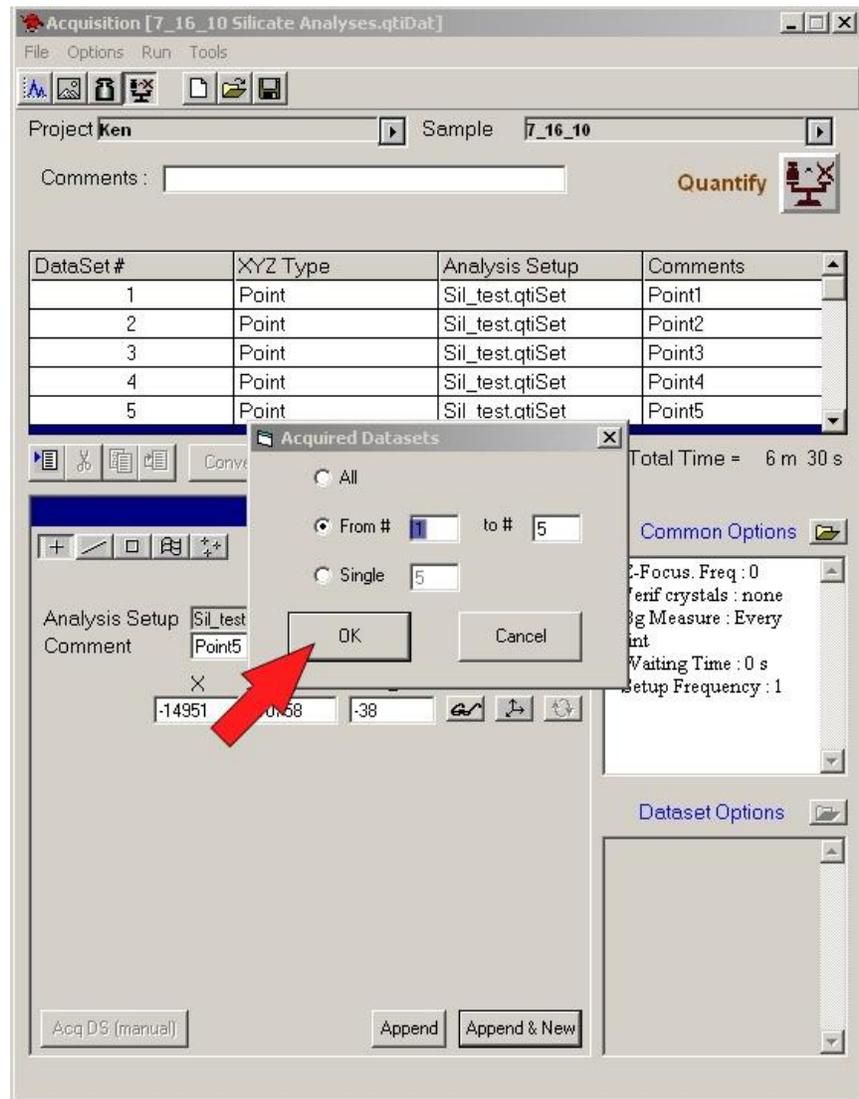## Press This Button

Step 7

Press "Run"

Step 8
Select the Points to Run

Select "From" In the pop-up window

Enter the Starting and Ending point numbers.

Step 9
Start the Analyses

Press This Button

Step 10 Wait for the analyses to finish.

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Quantitative Acquisition
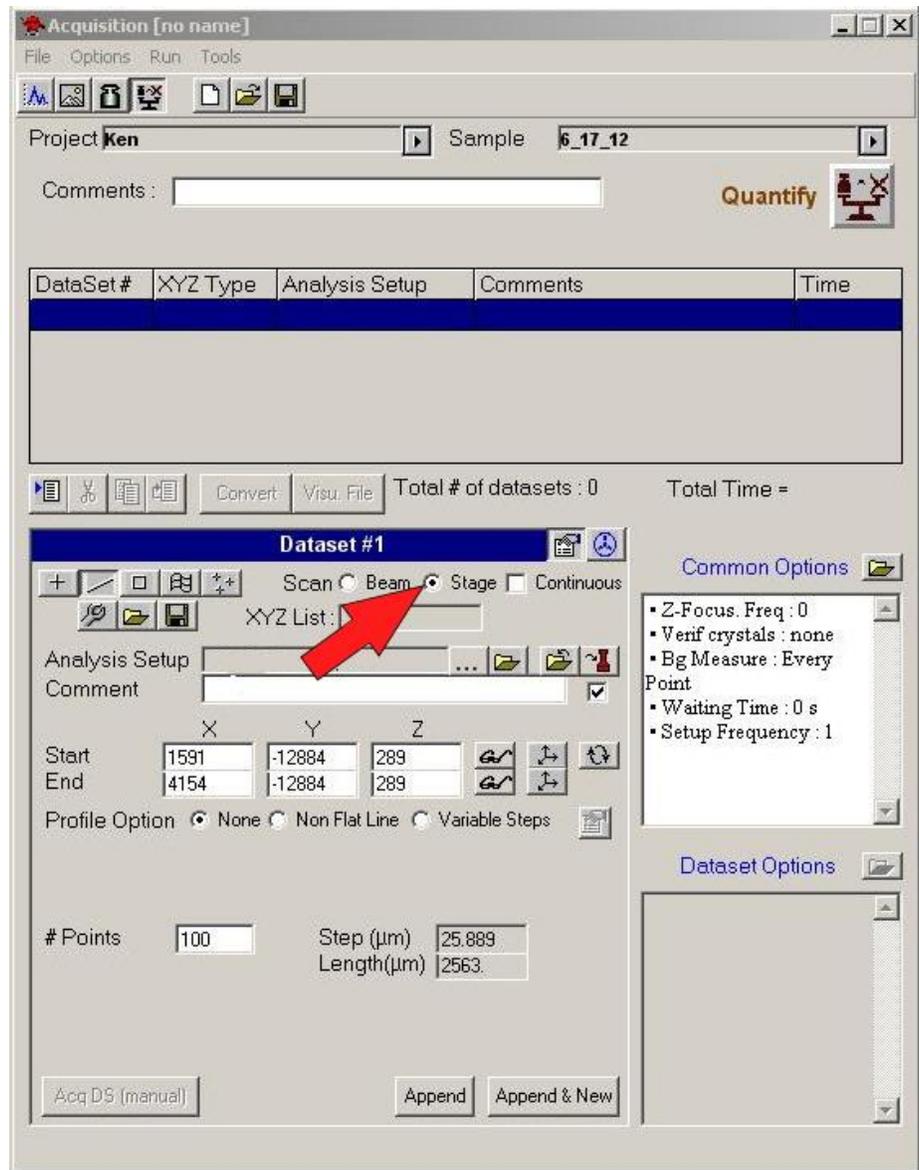# Line Scans

Step 1
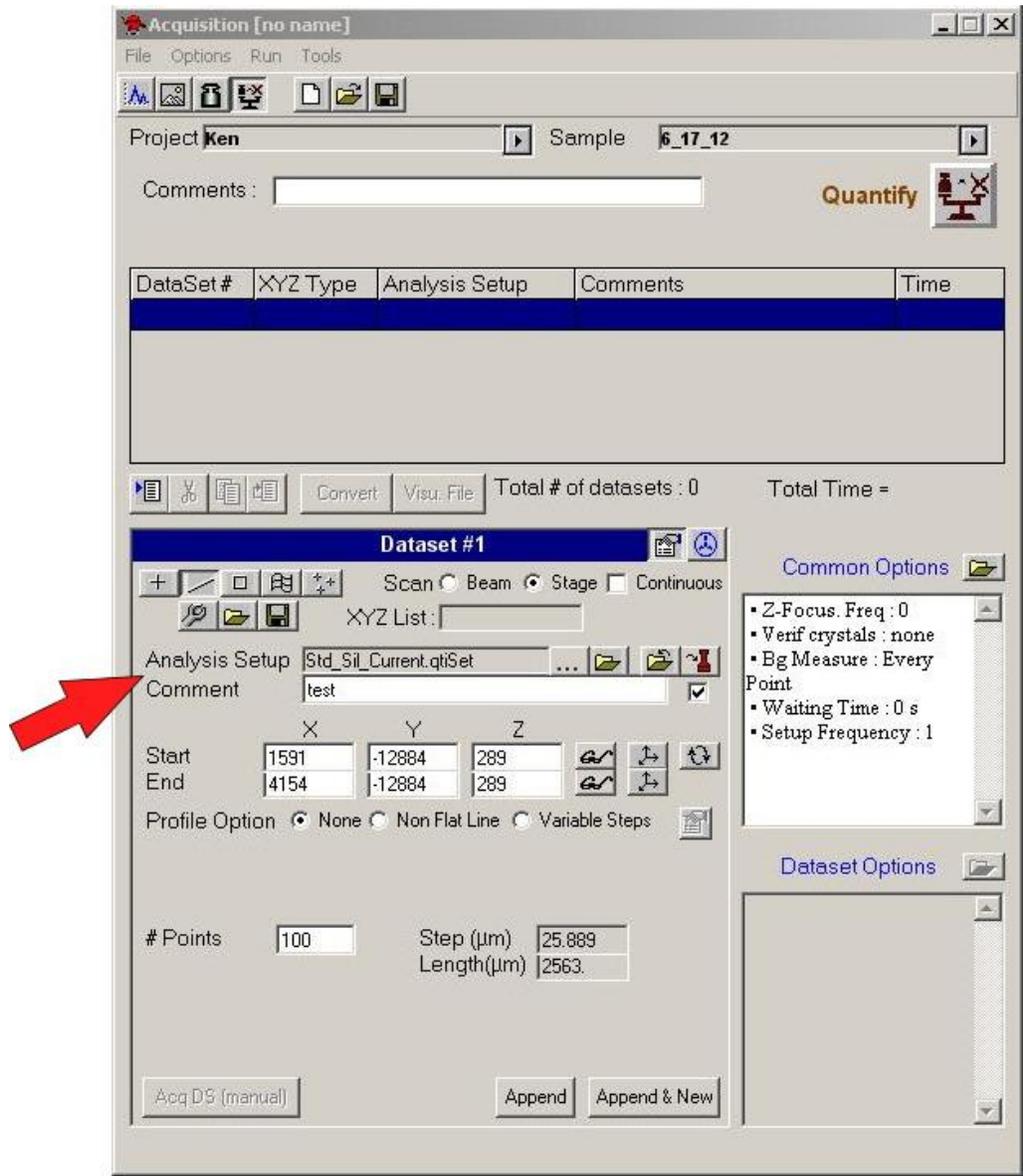# For Line Scan Analyses

Press This Button

Step 2
Select Stage Scan

Press This Button
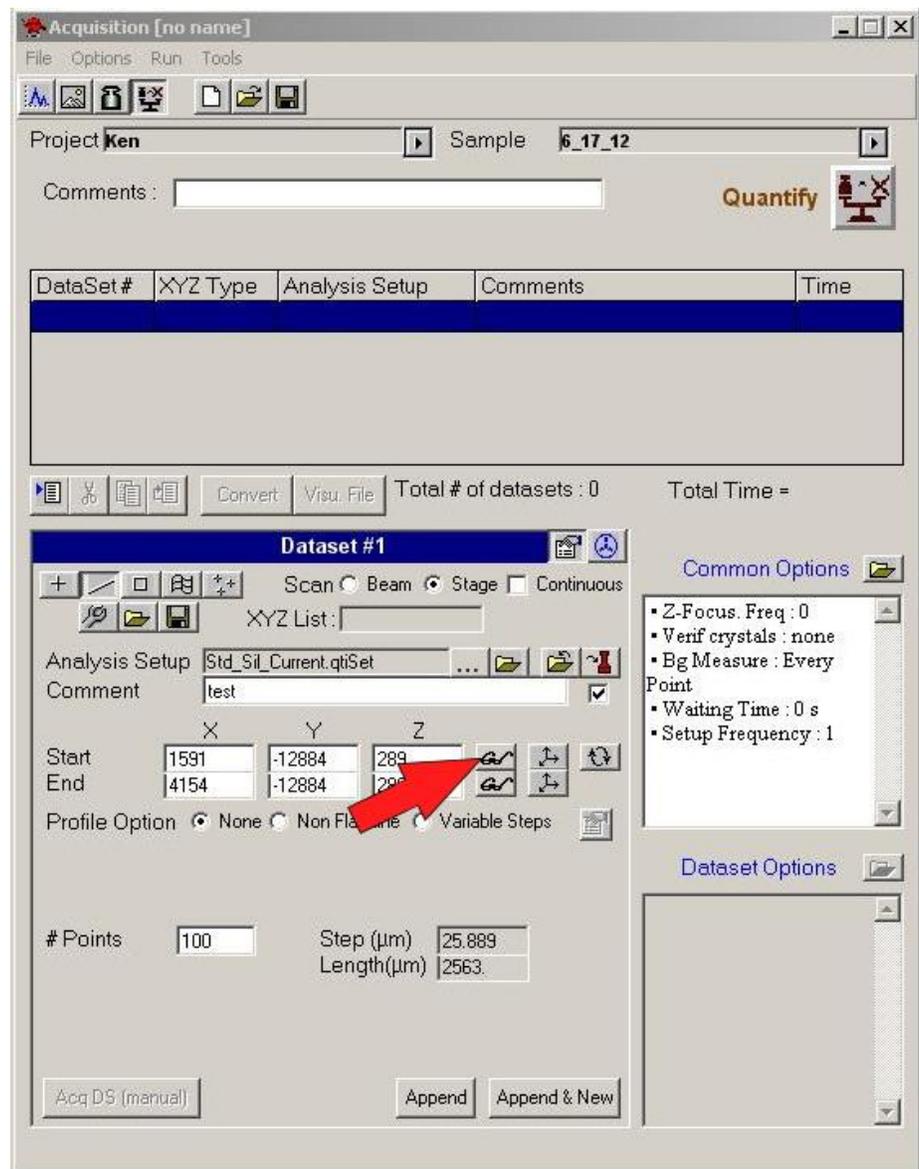
Step 3
Enter the Analysis Setup and a Comment

Step 4
Move to where you want to **Start** the Line
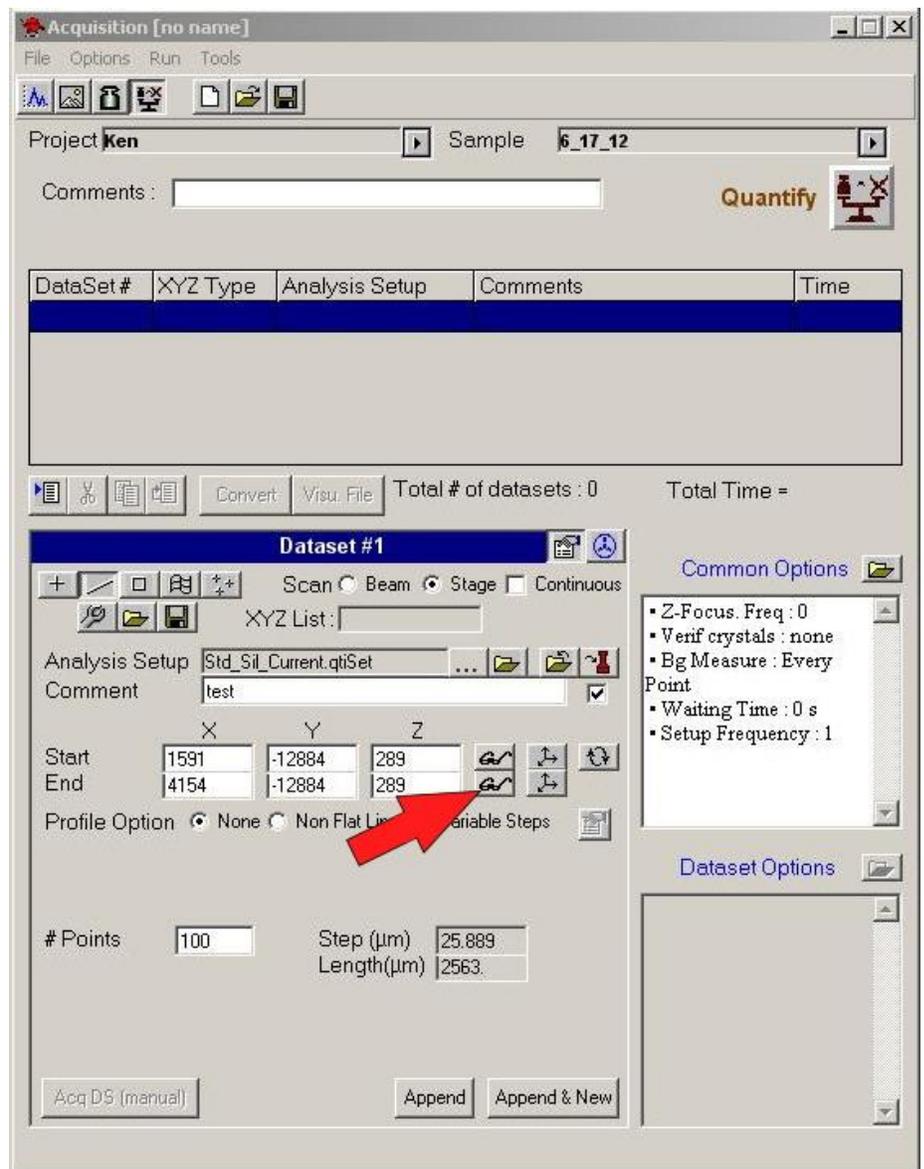
Then:

Press This Button

Step 5
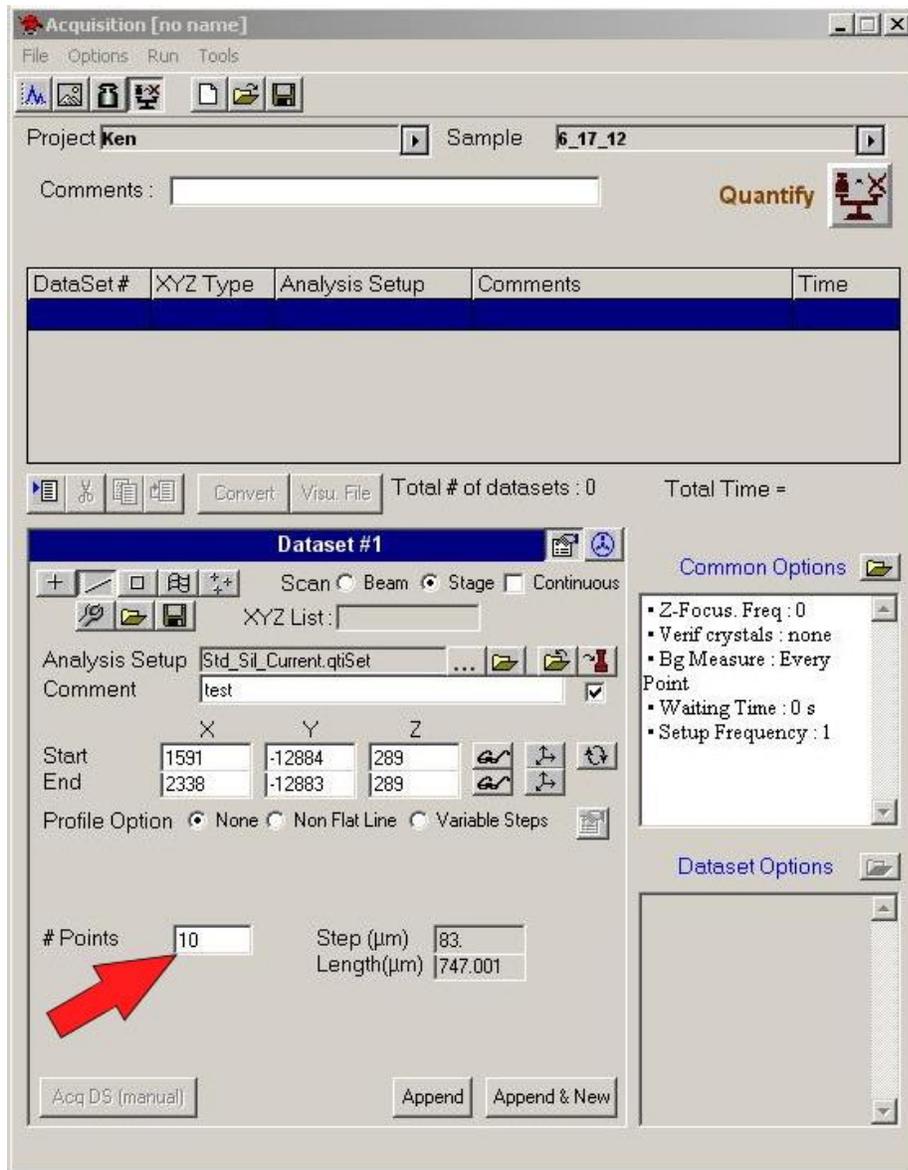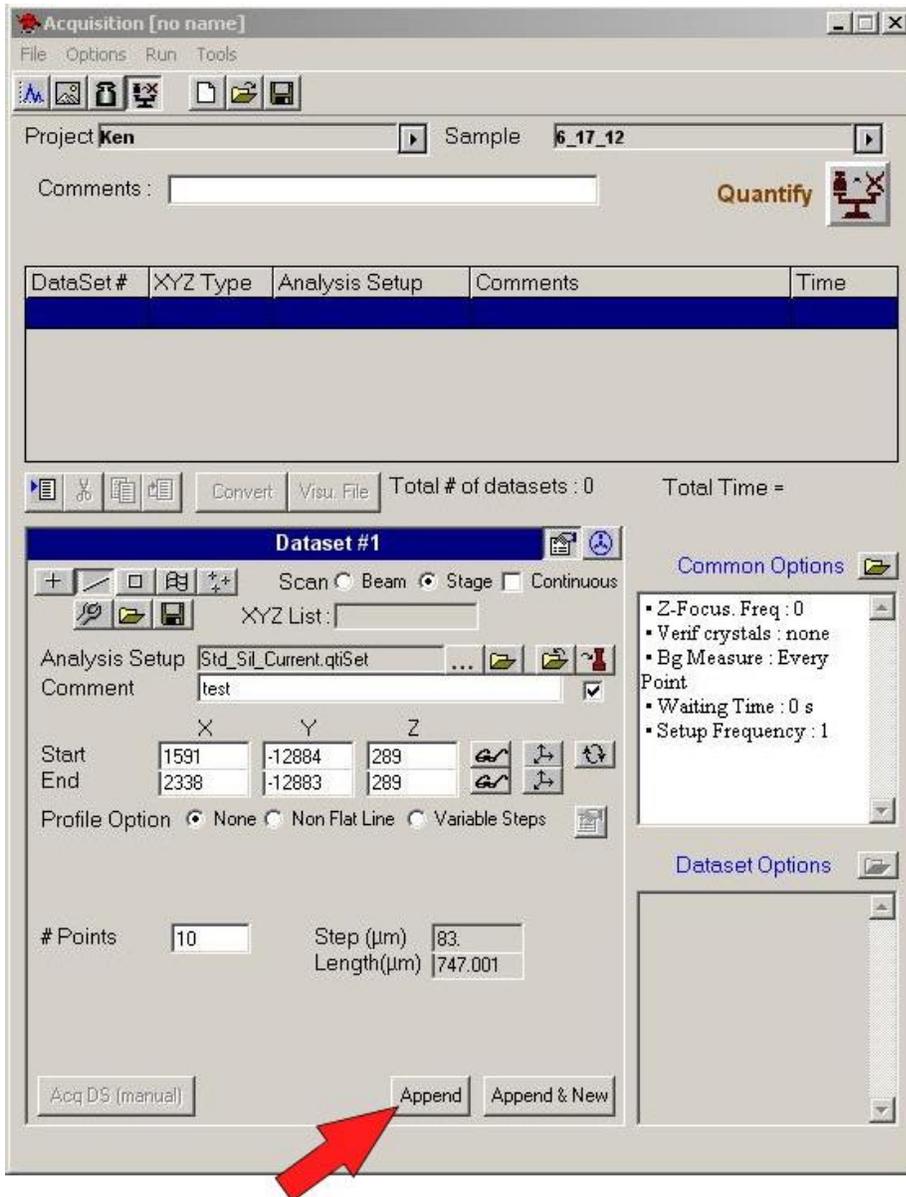# Move to where you want to **End** the Line

Then:

Press This Button

Step 6
Enter the Number of Points you want in the Line

Step 7
Append the Point to the Acquire List.

Press This Button

Step 8

To run the line now.

Follow the directions in section – Point by Point Analysis.

To set up additional lines (or points) and run them automatically.

Follow the directions in section – Setting Up Auto Points.

To turn on the auto focus (for this and all subsequent points.

Follow the directions in section – Setting Up Auto Points, Steps 5 and 6.