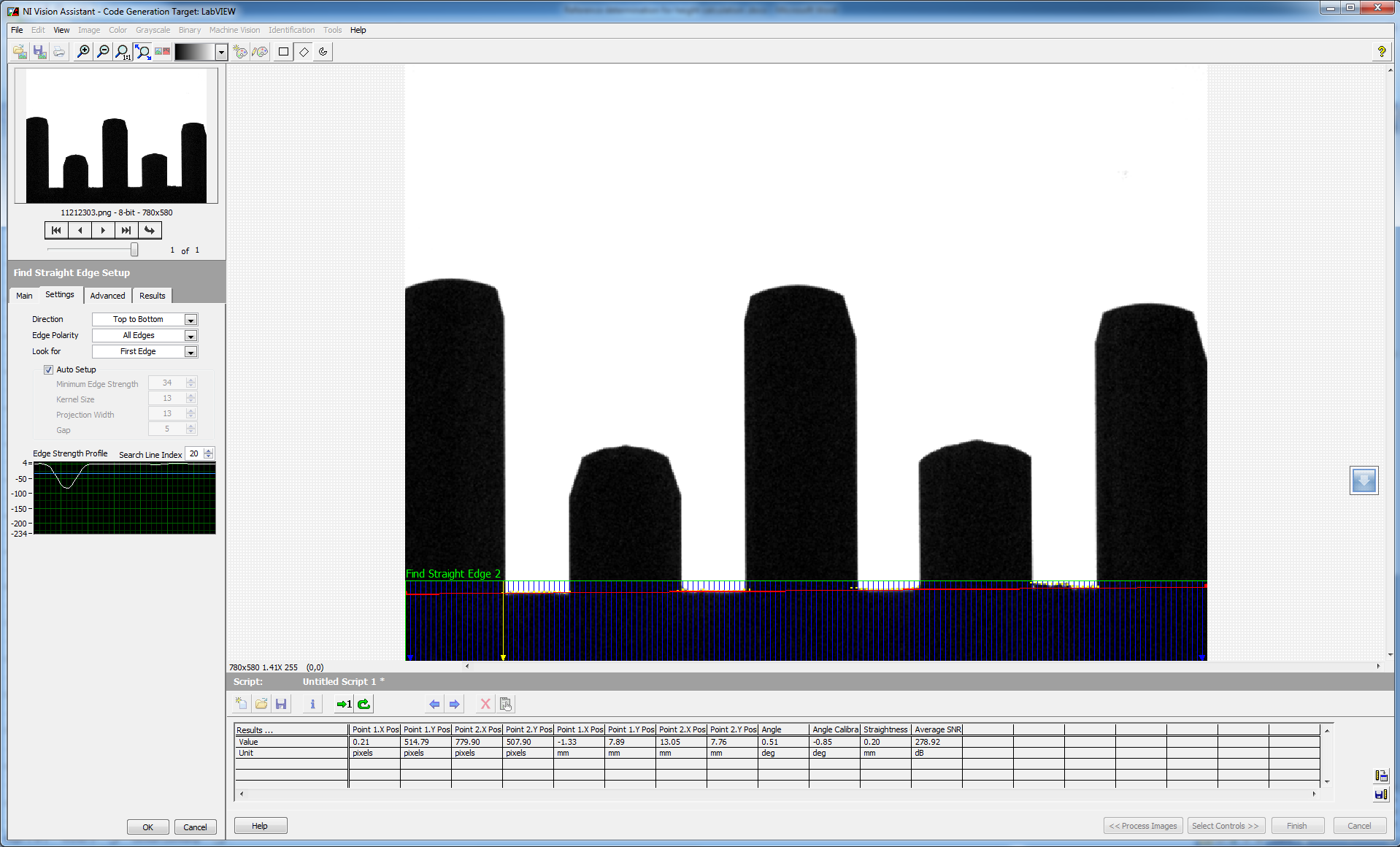
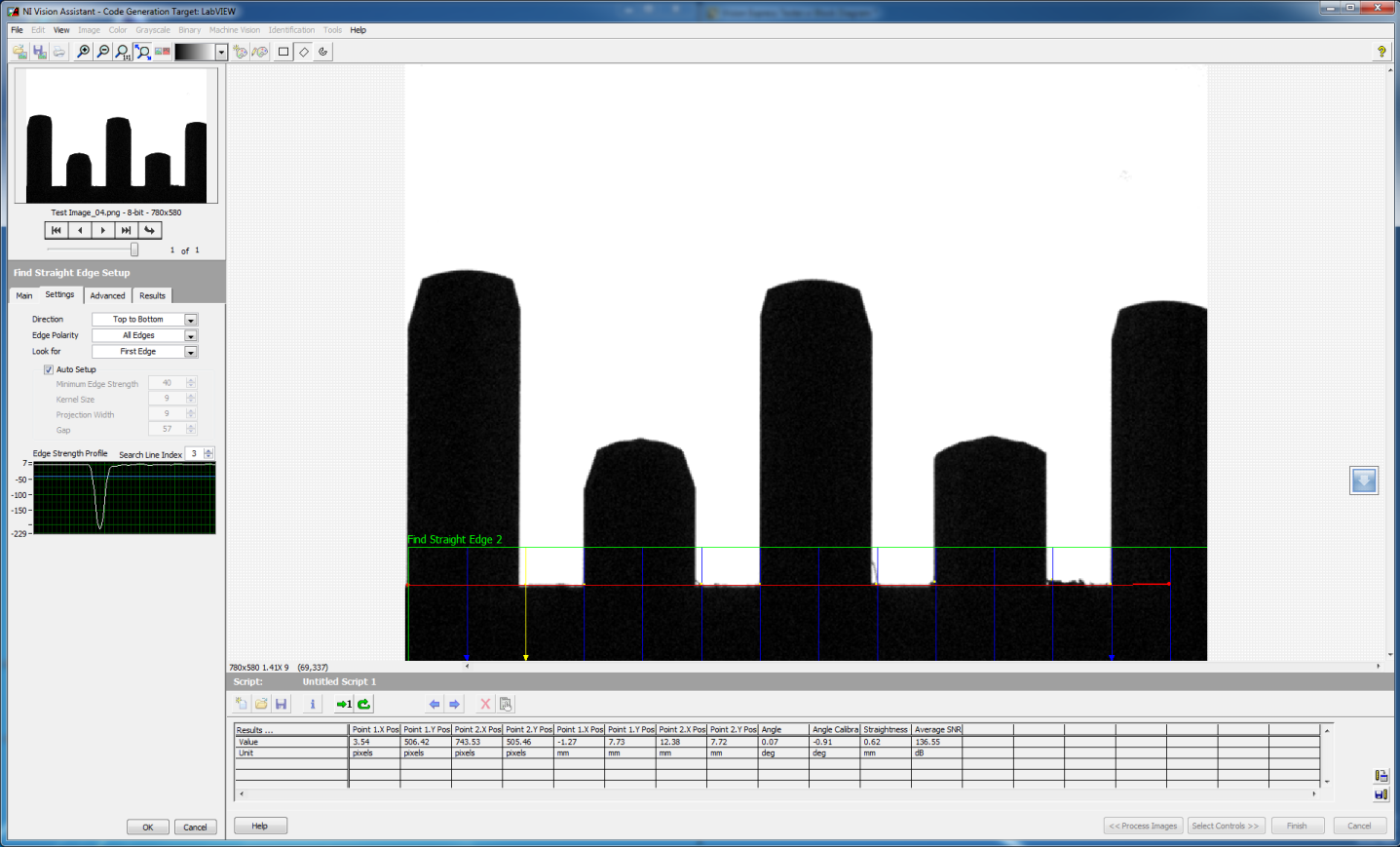
**Approach 1**

Reference determination

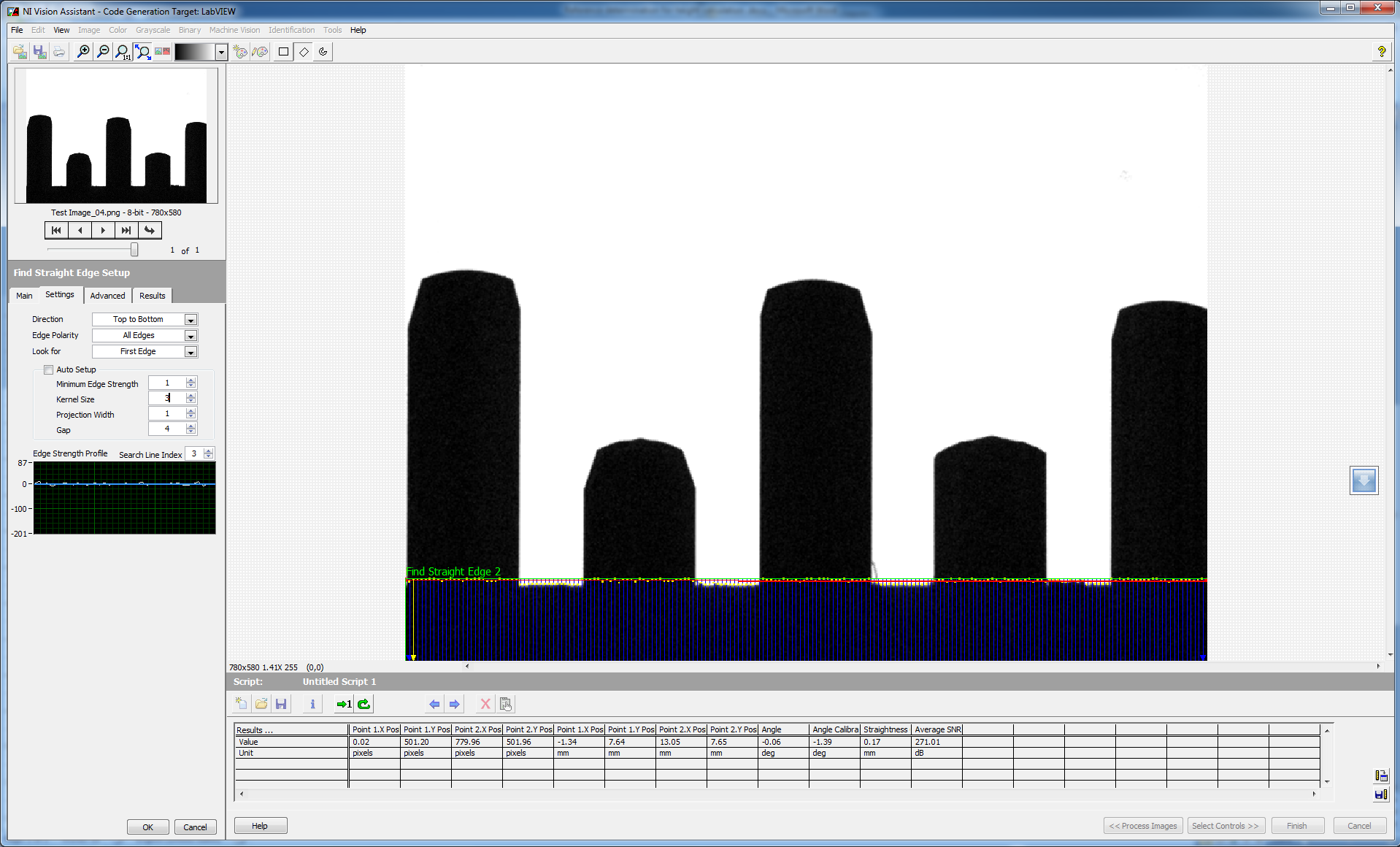


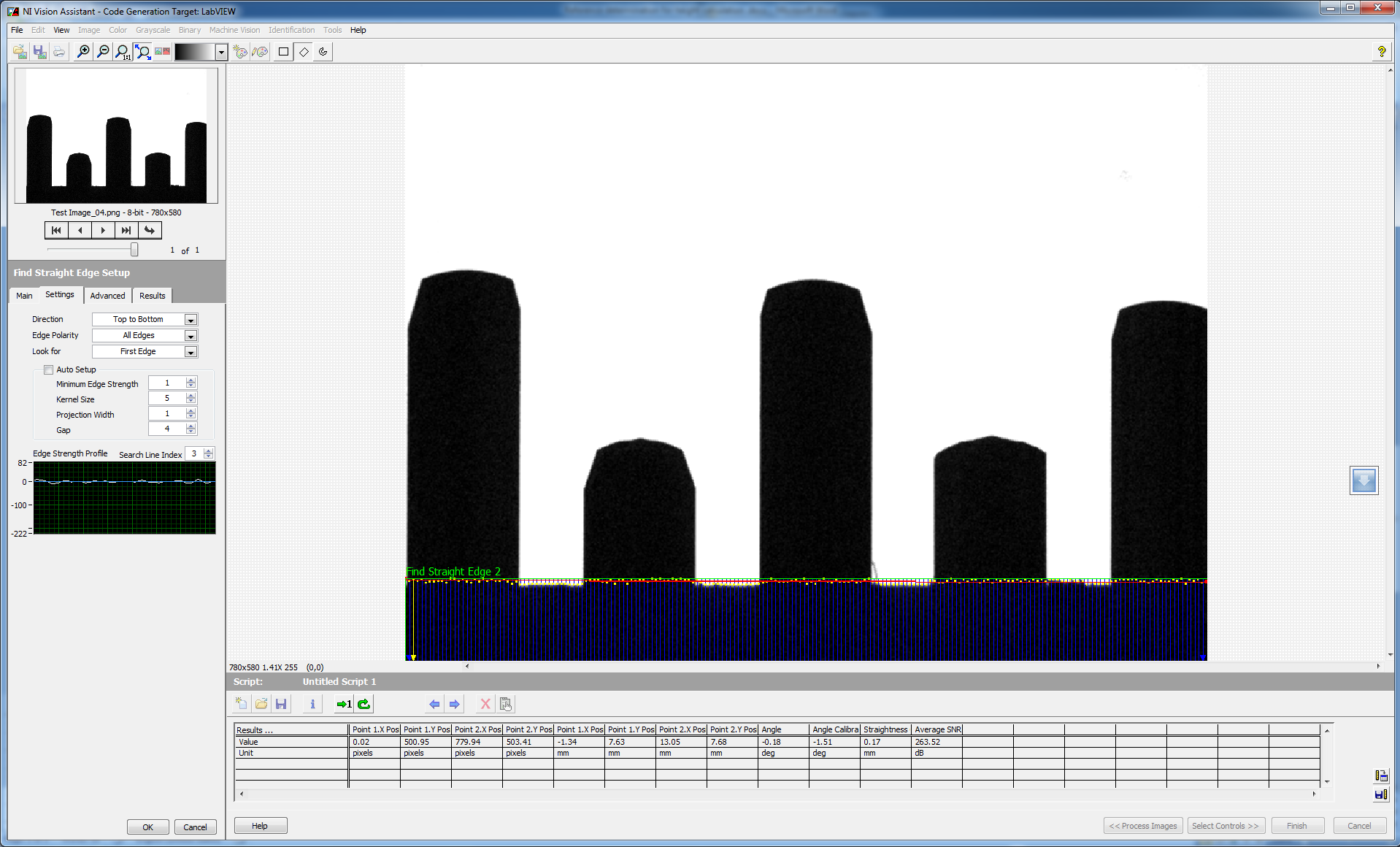
The 0.5 degree tilt of the OUI effected the line fit. It produced a difference of 4-5 pixels between end points of the line



After the tilt is adjusted, the line fit was more approximate to a straight line. . It produced a difference of 1-2 pixels between end points of the line.





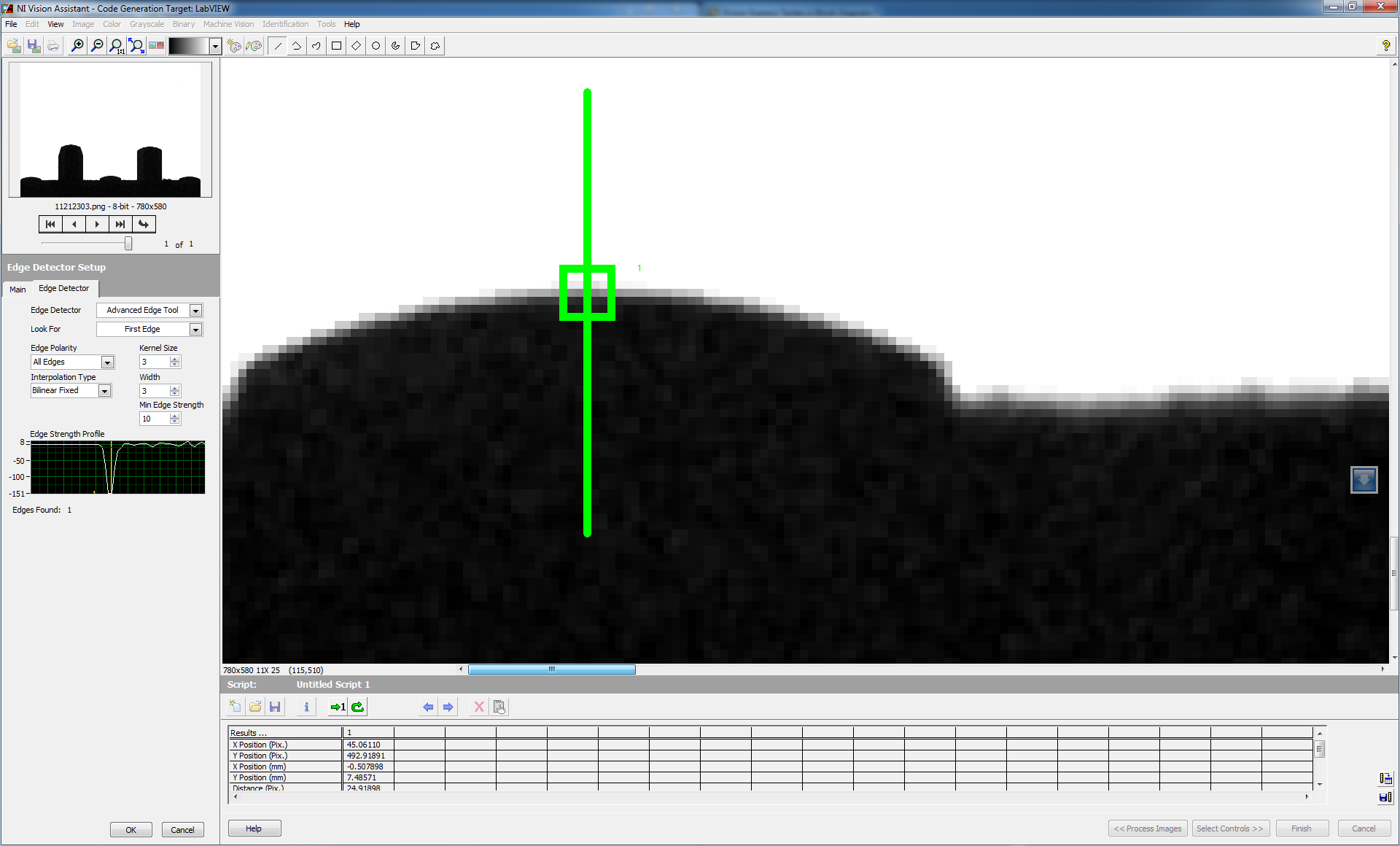


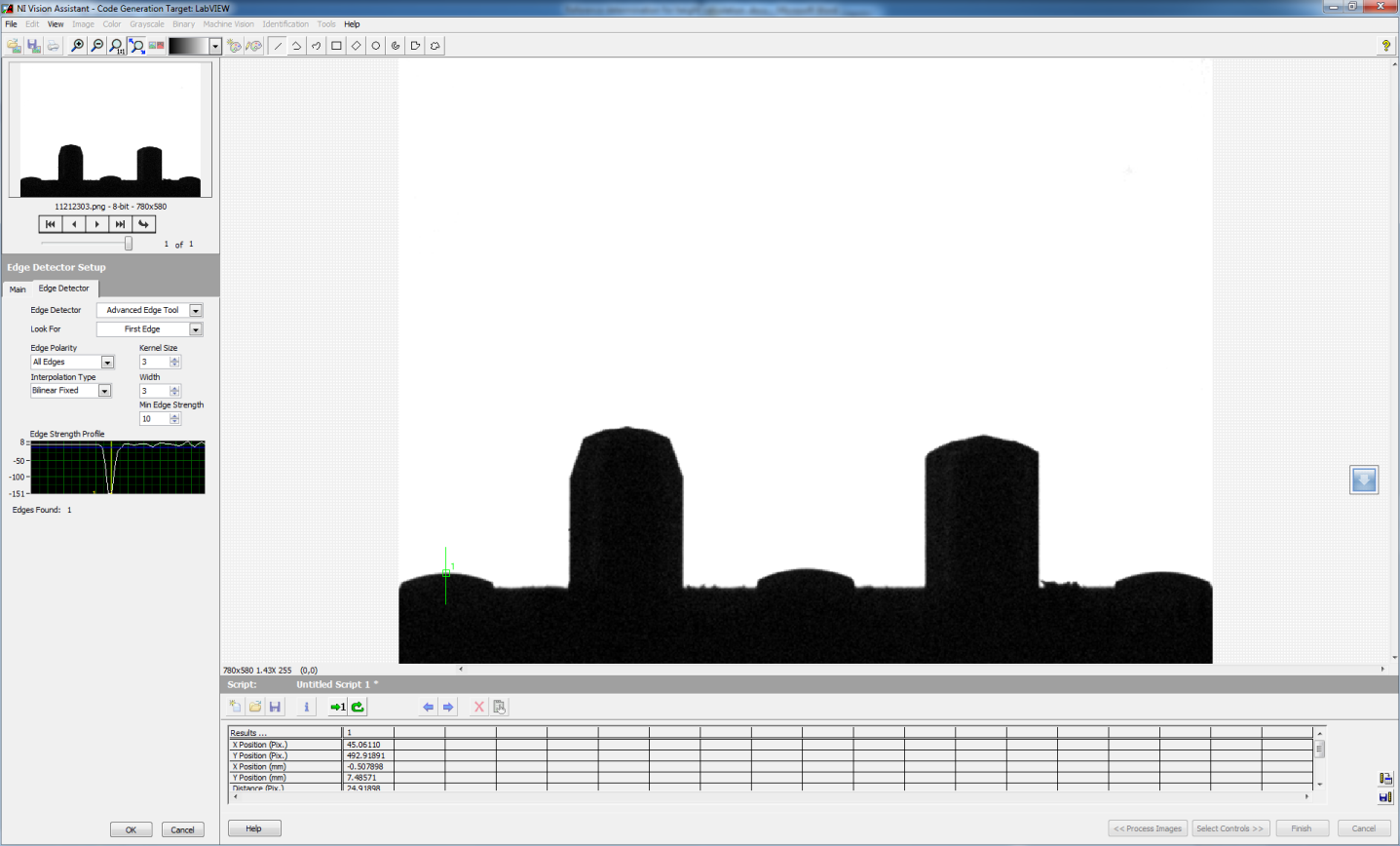


**Approach 2**

Fixing a base Reference (Pin Zero Position) for each pin individually and comparing the height of the pin from this zero position for each pen respectively

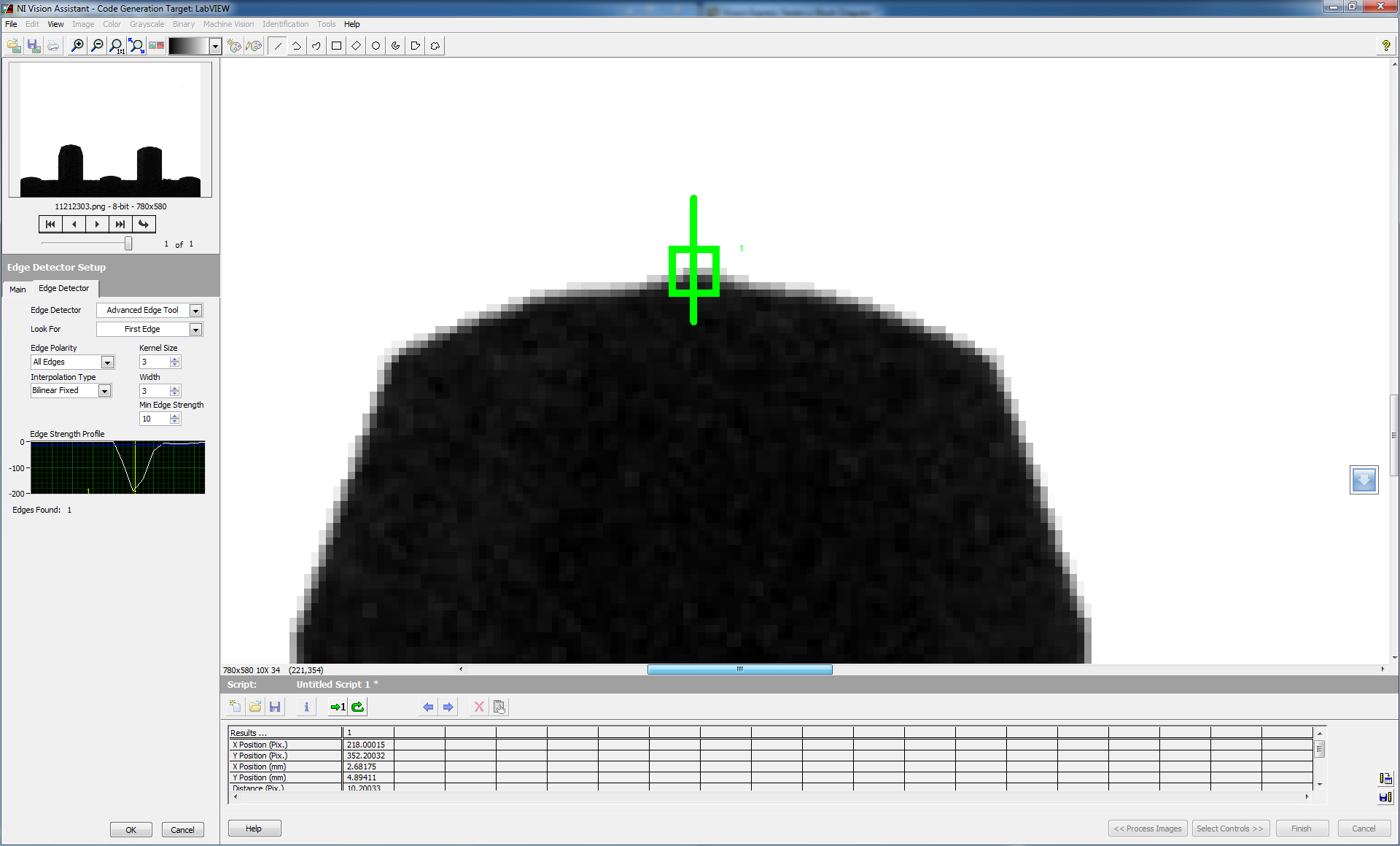
Pin 1

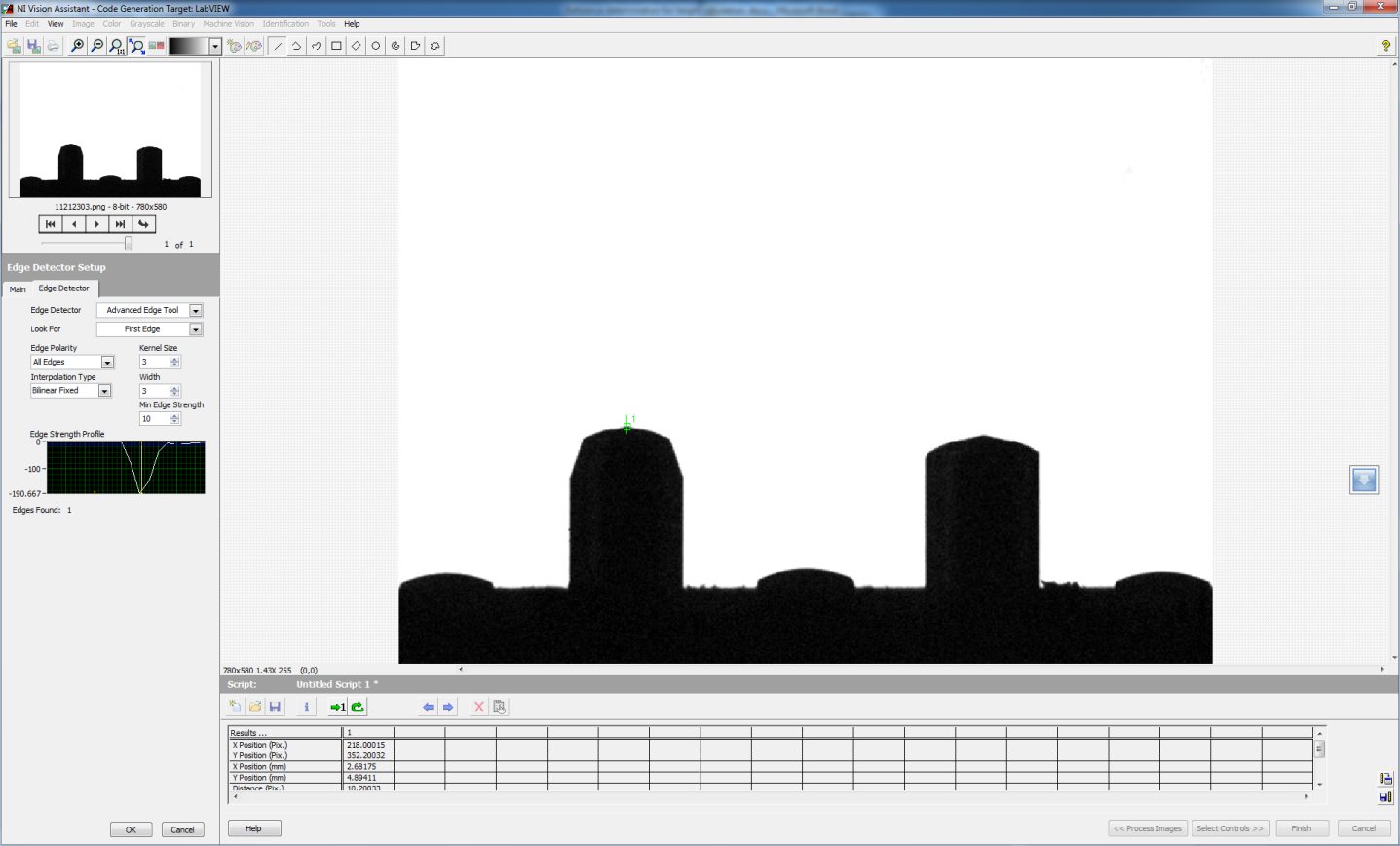




Pixel value - 492

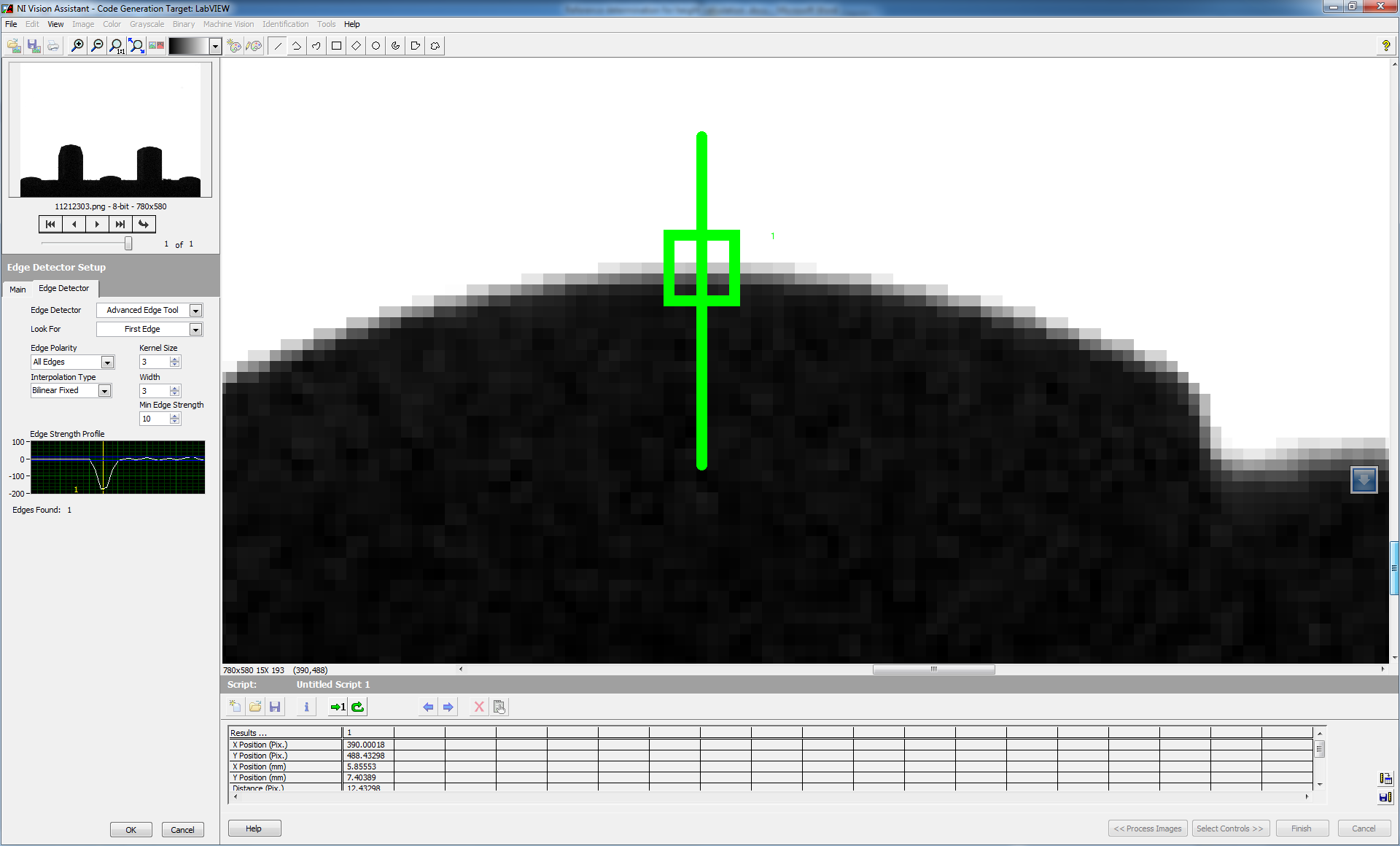
Pin 2

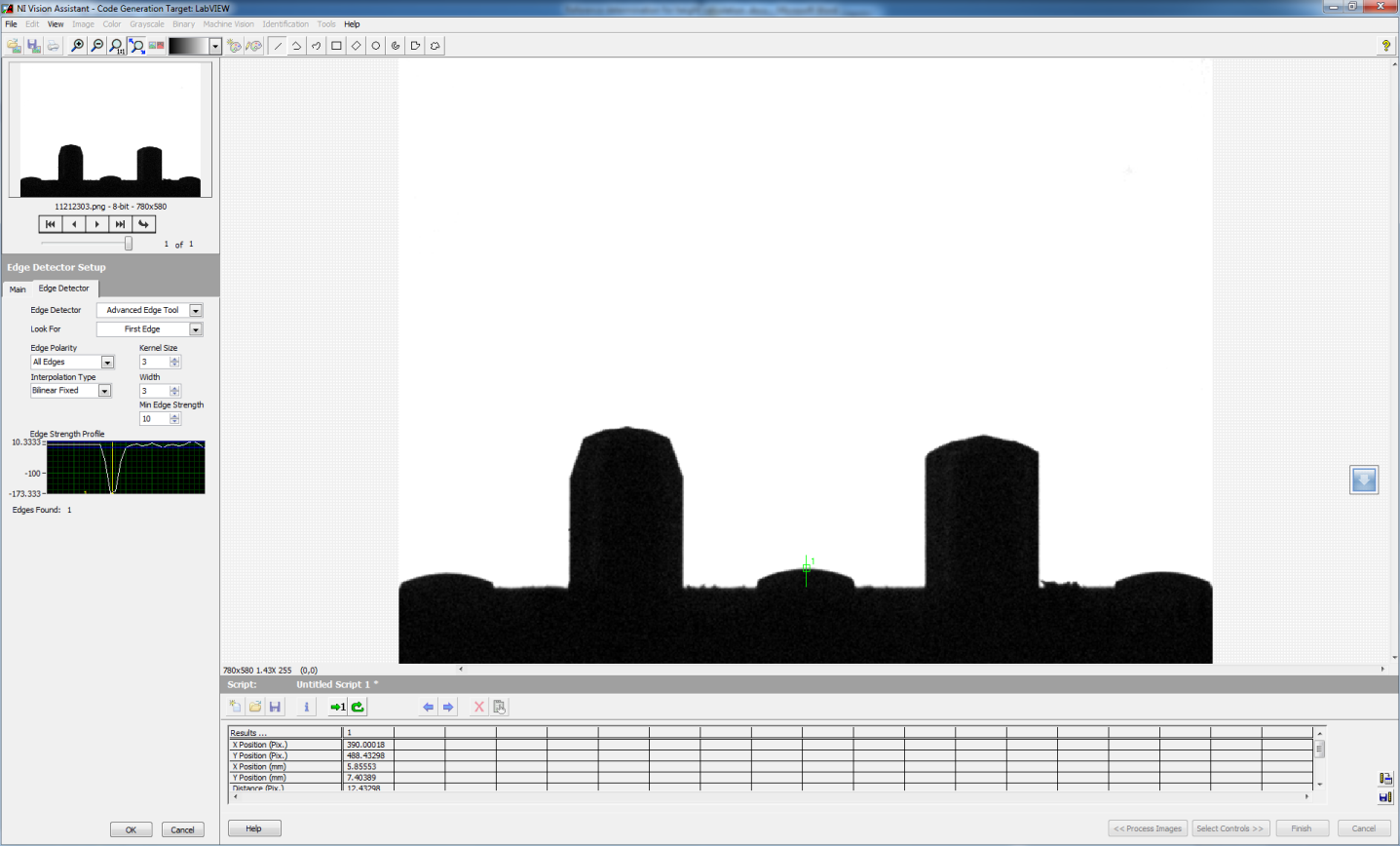




Pixel value - 352

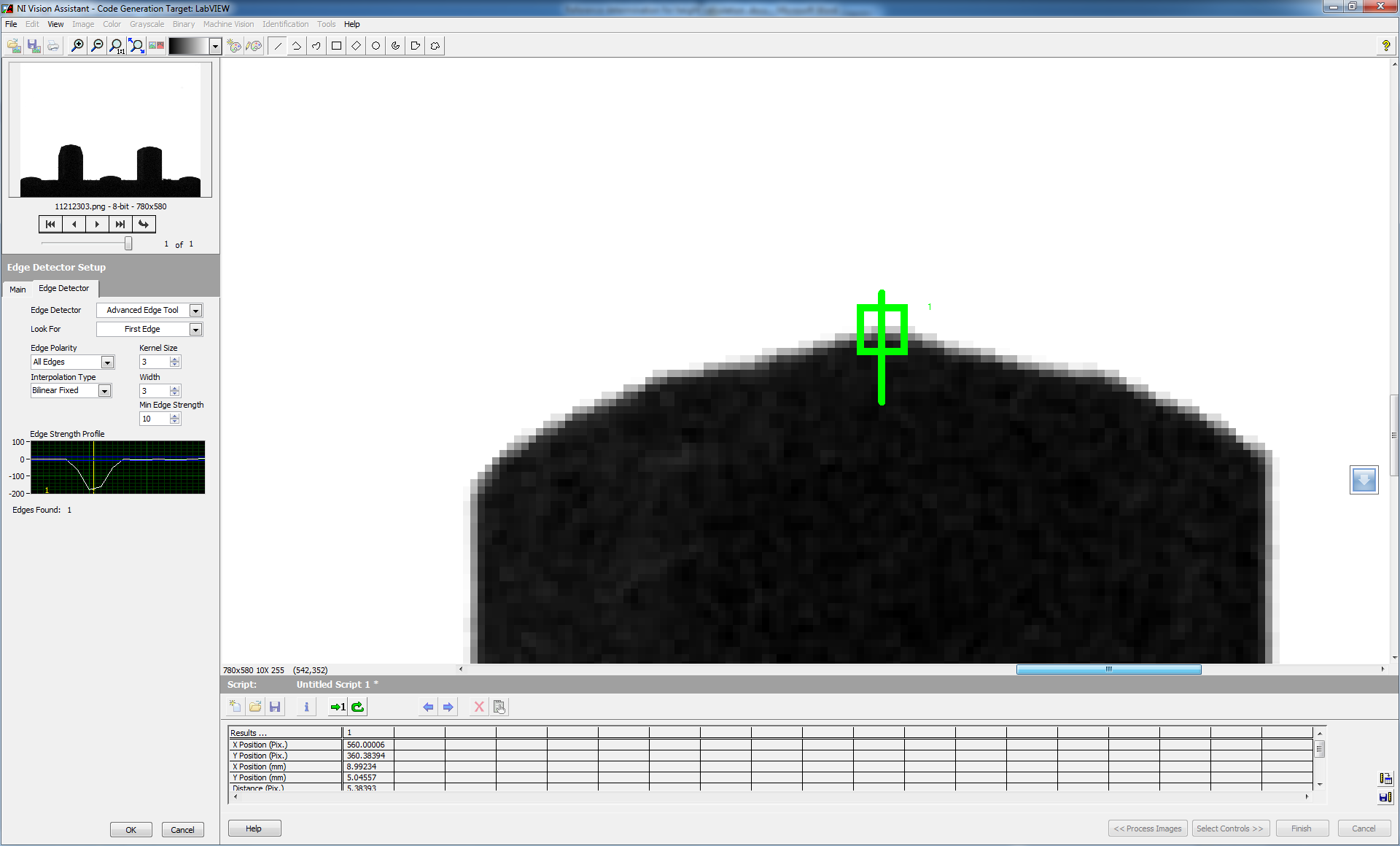
Pin 3

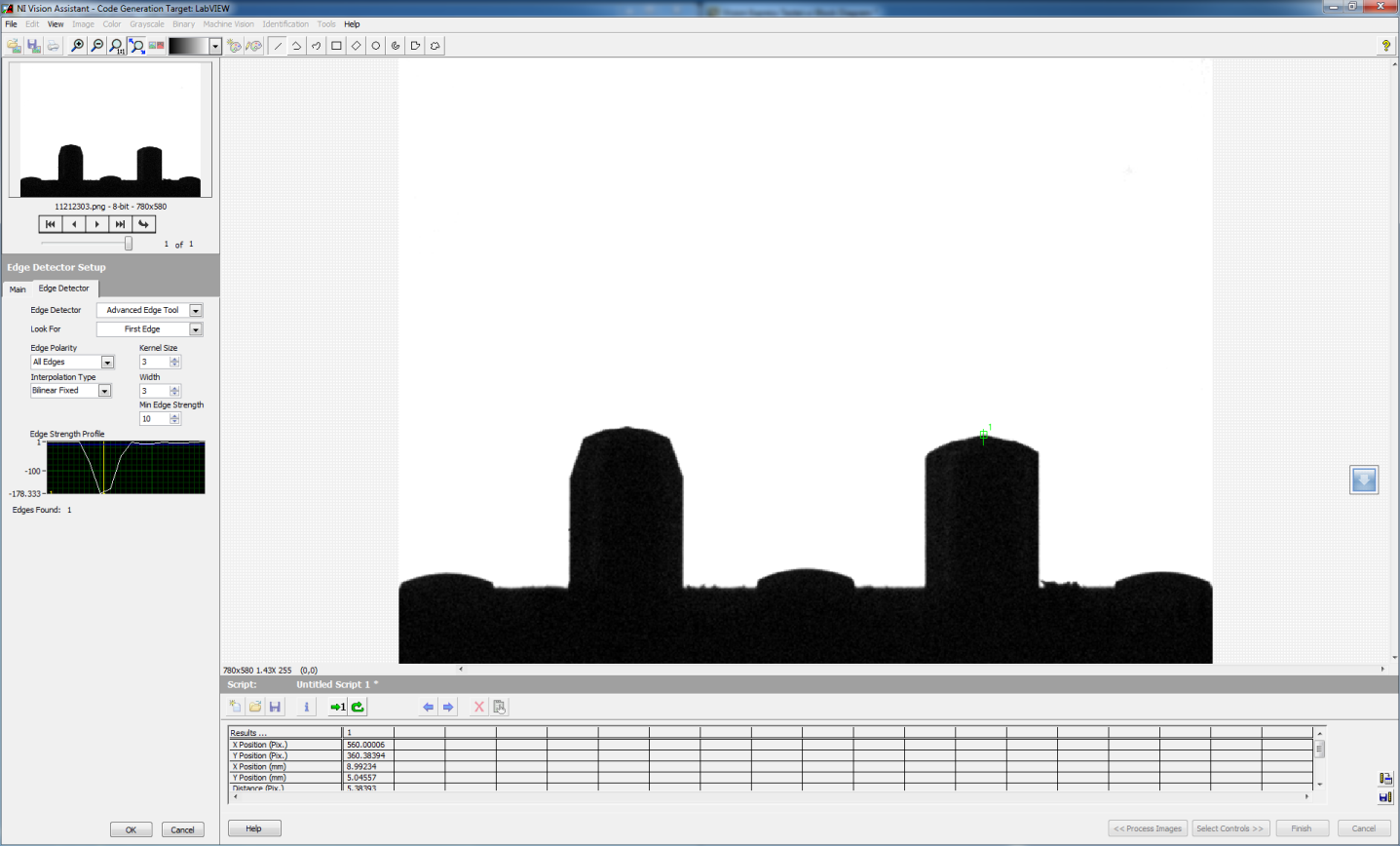




Pixel Value - 488

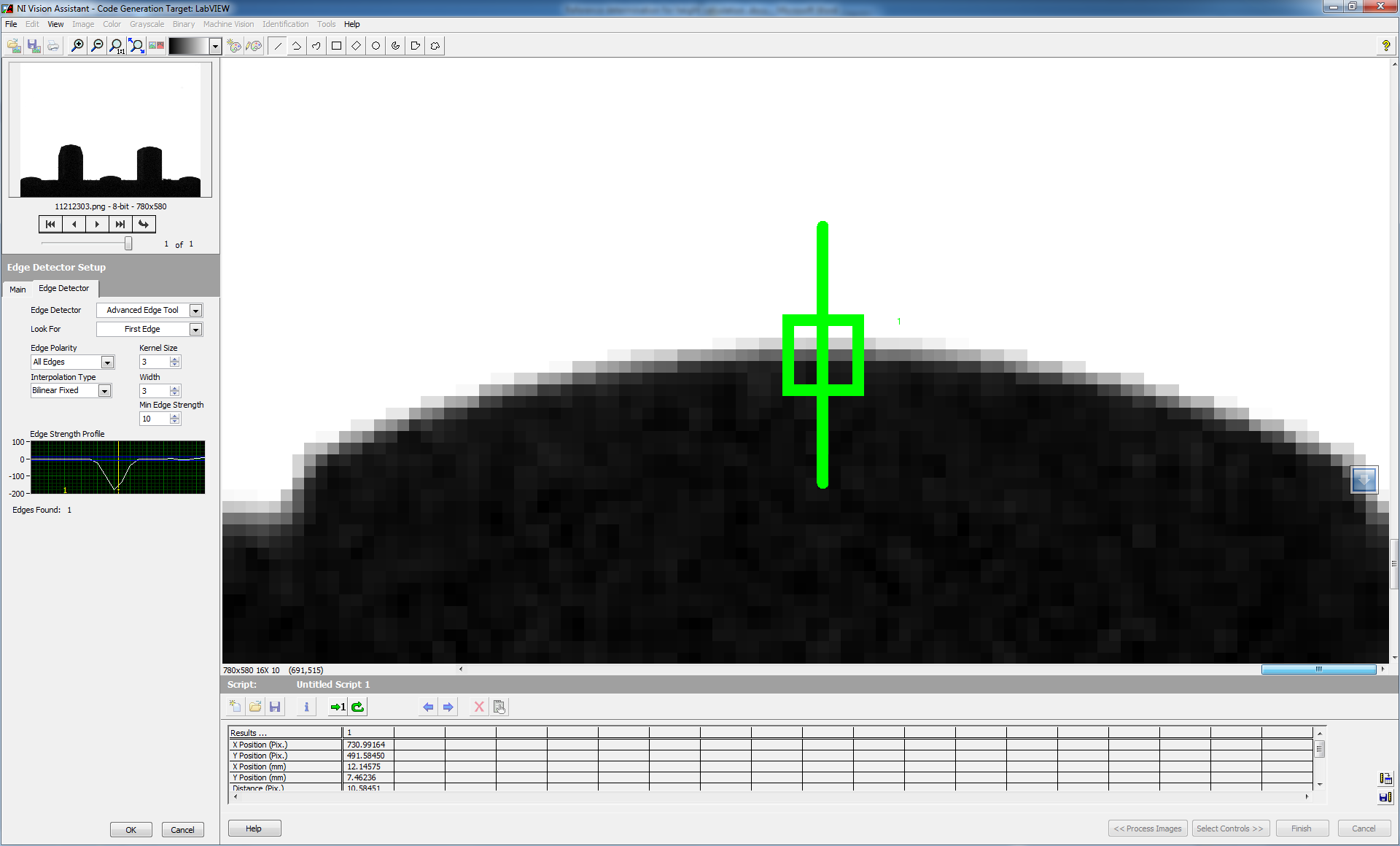
Pin 4

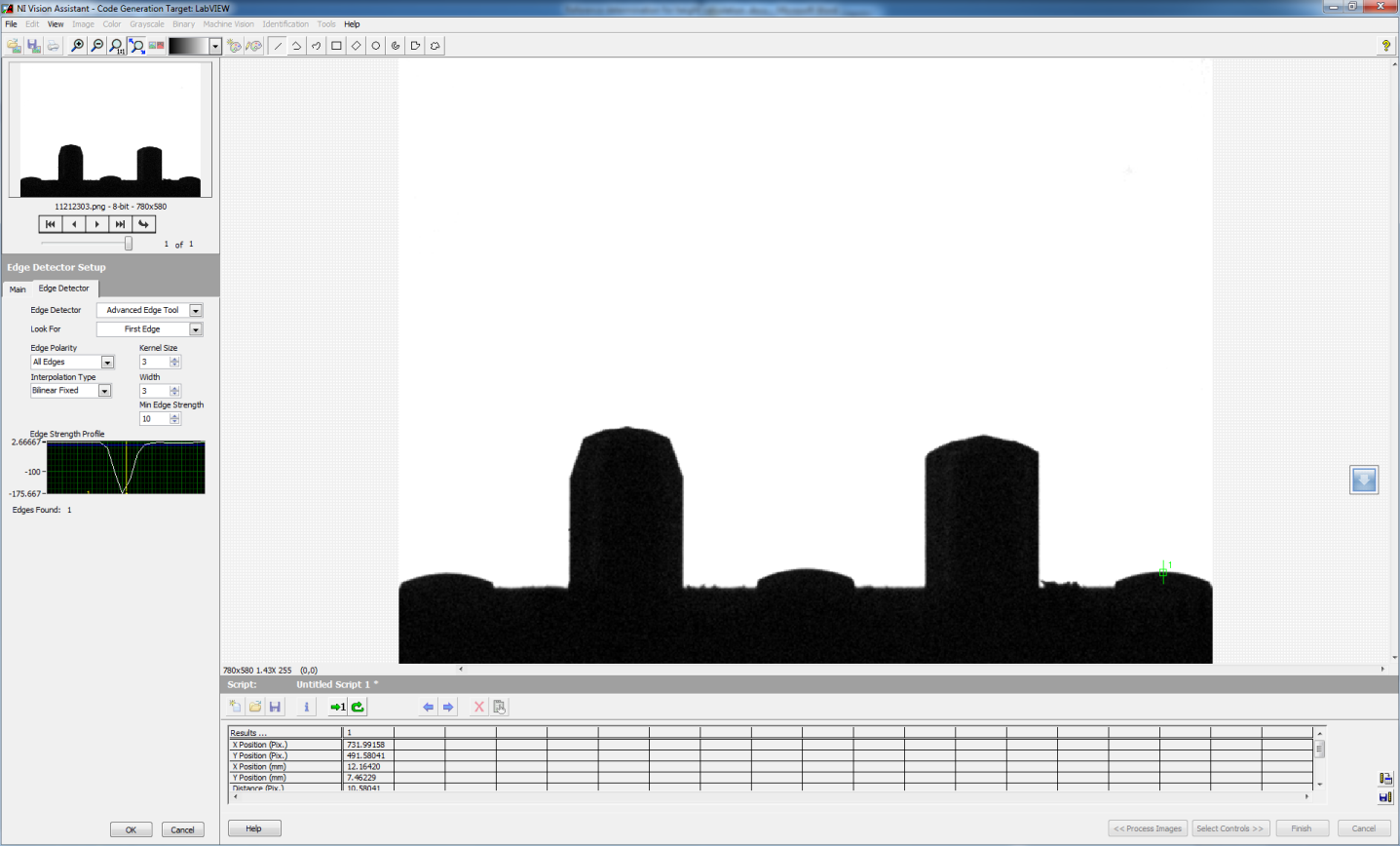




Pixel value - 360

Pin 5





Pixel Value - 491

|  |  |
| --- | --- |
| **Pin Number** | **Pixel Location** |
| 1 | 492 |
| 2 | 352 |
| 3 | 488 |
| 4 | 360 |
| 5 | 491 |