Safety
- The SEMs are safe instruments when operated normally. However, they can be easily damaged if used improperly.

Process Restrictions
Material Restrictions
- Fully Baked Resist Only!
- Samples should be cleaned and baked before imaging

Parameter Restrictions
- None

Scheduling / Sign-up Restrictions
- 2 hours maximum between 9 AM - 6 PM
- There must be a minimum of 4 hours between any two reservations.
- 4 hours maximum at all other times

Requirements (Do Every Time)
- Clean and bake samples
- Make certain the sample holder size is set correctly in the software

Prohibitions (Never Do)
- NEVER use the QBSD without checking with the tool managers first

Common Problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Root Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>- No TV or SEM signal</td>
<td>- Computer problem</td>
<td>- Reboot the computer</td>
</tr>
<tr>
<td>- Keyboard / Mouse doesn't work</td>
<td>- (1) Forgot to log in on CAC</td>
<td>- (1) Log in on CAC</td>
</tr>
<tr>
<td>- SEM image looks fine in reduced scan</td>
<td>- (2) other</td>
<td>- (2) Contact tool manager</td>
</tr>
<tr>
<td>but abnormal in full screen mode</td>
<td>- Computer problem</td>
<td>- Reboot computer</td>
</tr>
</tbody>
</table>

Other Comments or Cautions
Please report any problems to the machine manager using the website trouble report system.