Suggested settings for Agilent’s DNA Analytics software with ISCA arrays:

**Analysis Window Settings:**

1. Point size = 4
2. Select all 3 colors
3. Cutoff = 0.25
4. Show = checked
5. Algorithm = triangular
6. Line width = 3
7. Window = 5kb

**Aberration Filters:**

8. Show = checked
9. Algorithm = ADM-1
10. Threshold = 6.7
- Select 'Tools', 'Aberration Filters', 'Apply', and check the '4 probe' box
- **Note**: This is a custom filter we created within the program by editing the aberration filter to use 4 consecutive oligos for a call.

Create/Edit an Aberration Filter:

- Select 'Tools', 'Aberration Filters', and then 'Edit Filter'
- The 'Aberration Filters' window will appear

- Create a new filter by selecting 'New', fill in the 'Name' field and click 'OK' (not shown)
- Minimum number of probes in a region = 4 (consecutive oligos required for a call)
- Select 'Update', then 'Close'
- This new filter will appear in the list of under ‘Tools’, ‘Aberration Filters’, ‘Apply’
User Preferences:

- Select ‘Tools’ on the tool bar and then select ‘User Preferences’
- The ‘Preferences’ window will appear

- Under the ‘View’ tab, select Scatter Plot and Aberration in the ‘Data Visibility’ box
Select the ‘Miscellaneous’ tab:

- Turn on Fuzzy Zero and Centralization by checking the boxes
- Set the Centralization Threshold to 6 and Bin Size to 10
- Non Unique Probes – check the Expand box*
- Select ‘Apply’, then ‘OK’

*For the ISCA Clinical Design Files: DO NOT check this box. If this option is not selected, the PAR oligos will only appear on chrX and only unique oligos will be present. Repetitive oligos, such as those in segmental duplications, will not be present.