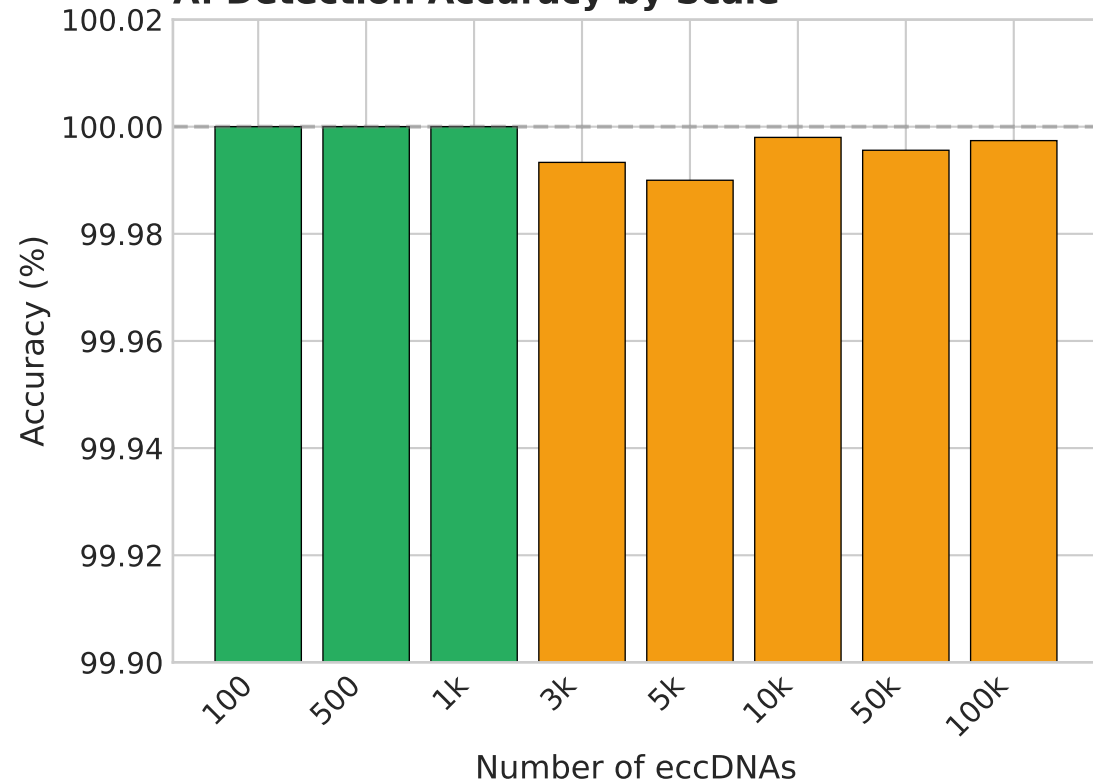
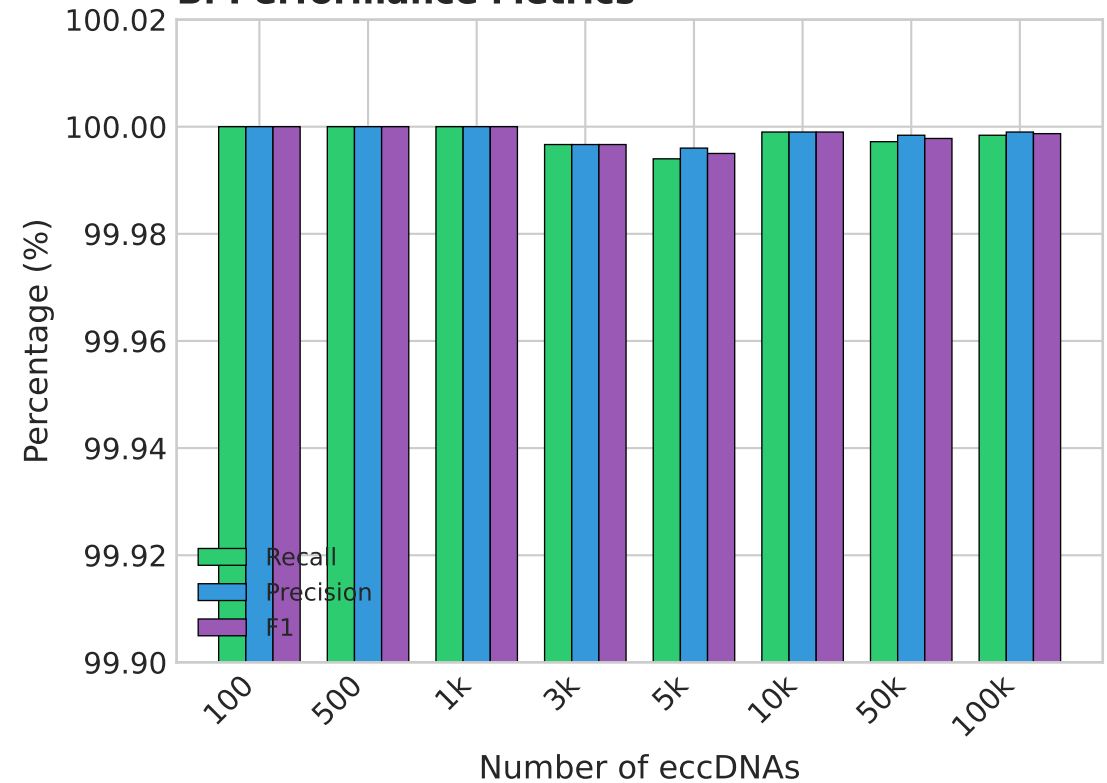
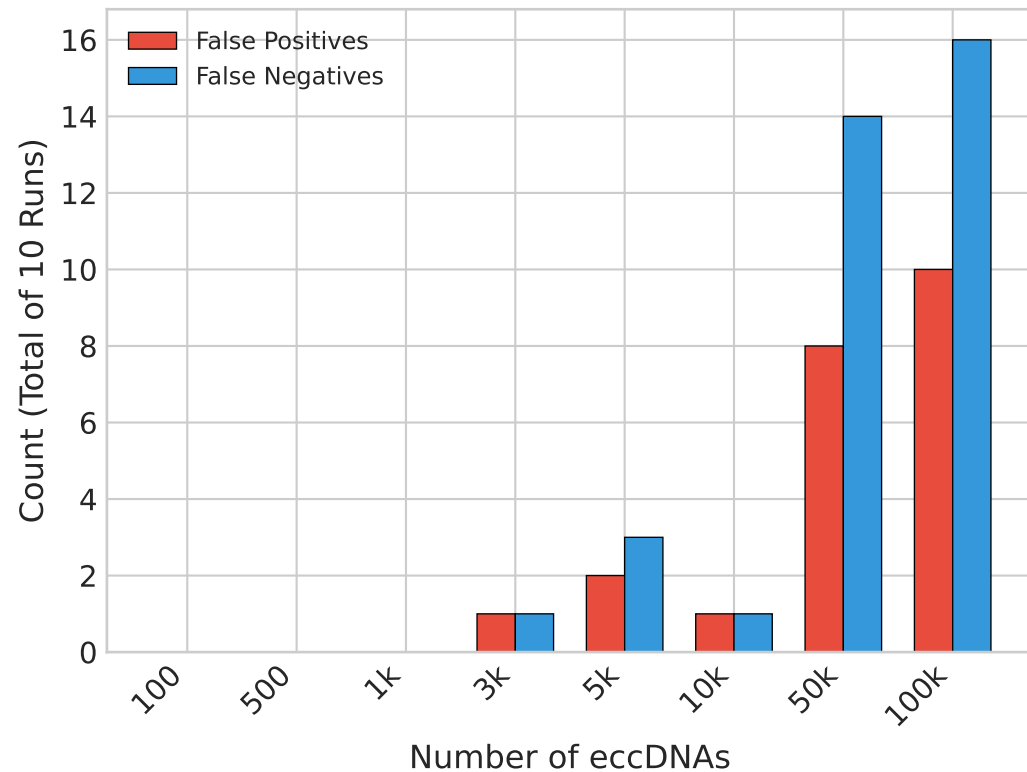


A. Detection Accuracy by Scale**B. Performance Metrics****C. Error Distribution****D. Summary Statistics**

Validation Summary

Configuration:

- Scales tested: 100 to 100,000 eccDNAs
- Runs per scale: 10 (seeds 42-51)
- eccDNA composition: 70% Unique, 15% Multimap, 15% Cluster
- Total ground truth: 1,696,000 eccDNAs

Overall Performance:

- Successful runs: 80/80 (100%)
- True Positives: 1,695,965
- False Positives: 22 (avg 0.28/run)
- False Negatives: 35 (avg 0.44/run)

- Accuracy: 99.9966%
- Recall: 99.9979%
- Precision: 99.9987%
- F1 Score: 99.9983%

CircleSeeker v0.10.2 | minimap2 v2.30