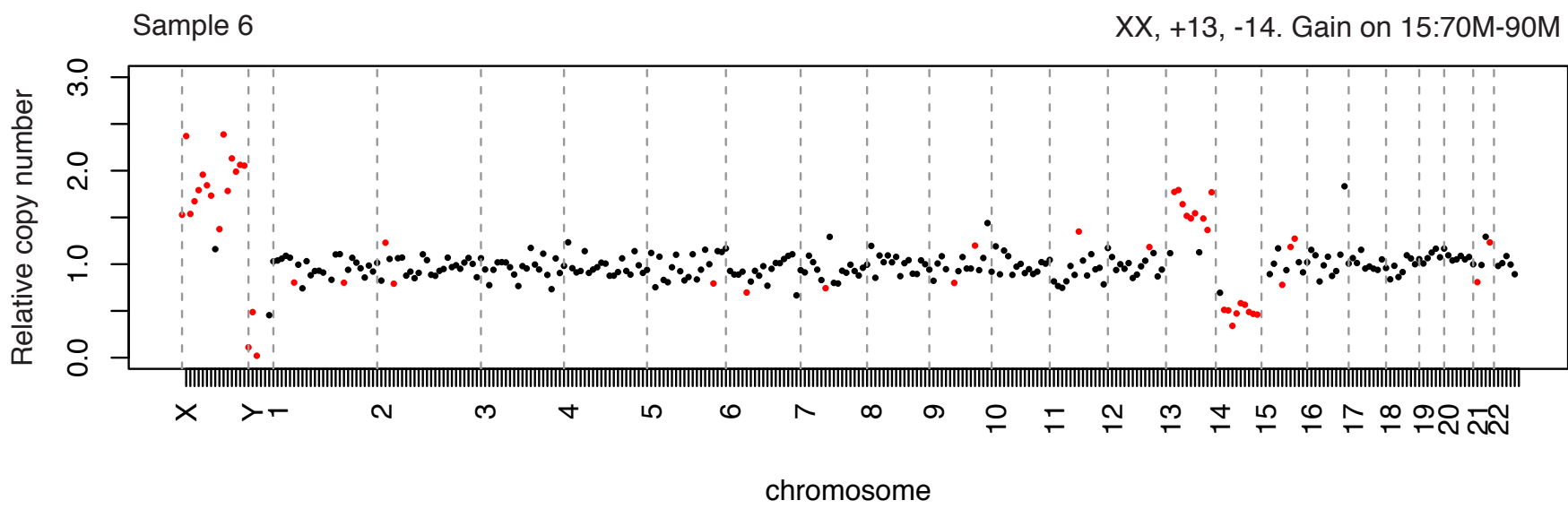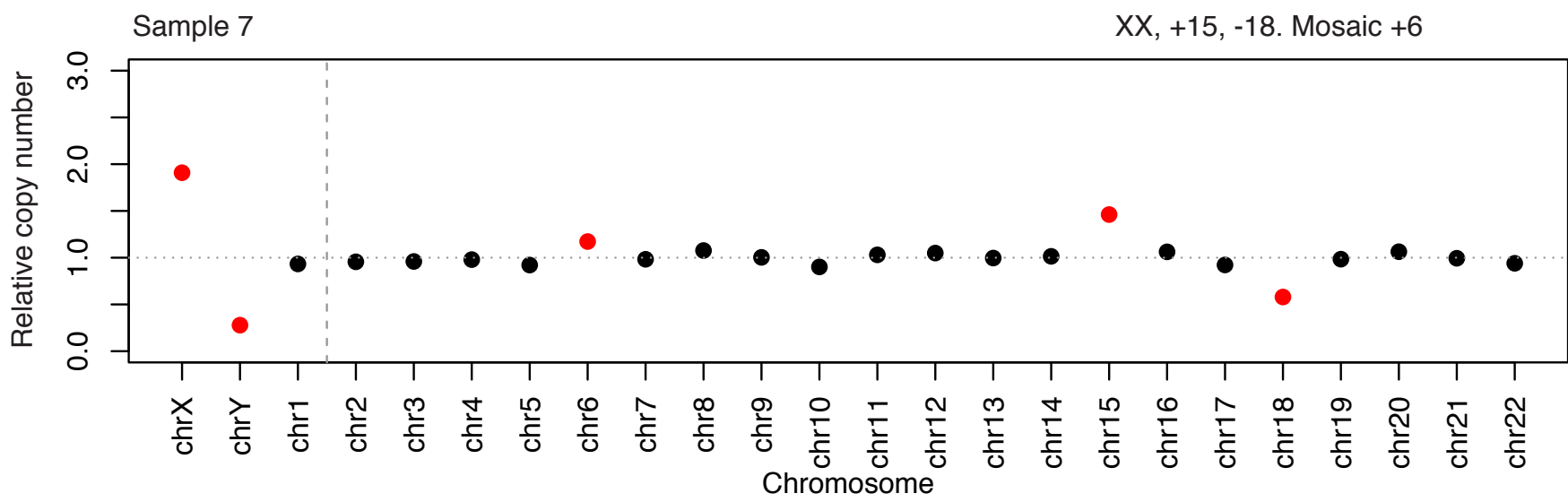Supplementary Figure 1: MinION nanopore sequencing representative yield performance (Grayscales: sample 1-5; black: run 2 accumulative; Green dotted line: threshold for ≥ 30K uniquelyaligned reads for downstream analysis).

A

Sample 6   XX, +13, -14. Gain on 15:70M-90M

B

Sample 7   XX, +15, -18. Mosaic +6

Supple. Figure 2: MinION large CNV and mosaic aneuploidy detection. A). Large CNV detection using 10Mbs bins. The abnornality of each chromosomal segment was indicated by color (red: abnormal; black: normal). B). Mosaic aneuploidy detection. The abnormality of each chromosome was indicated by color (red: abnormal; black: normal).