

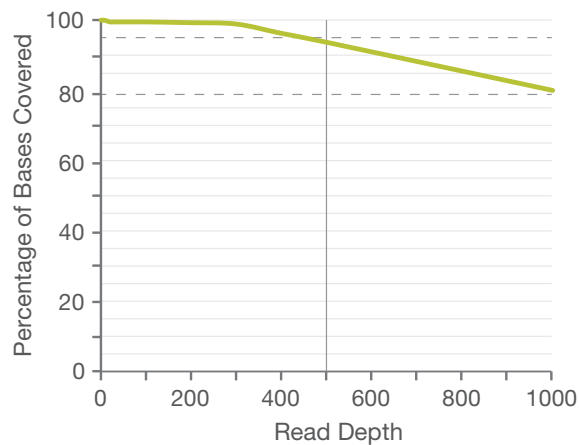




**Figure 3: High Specificity and Uniformity****A**

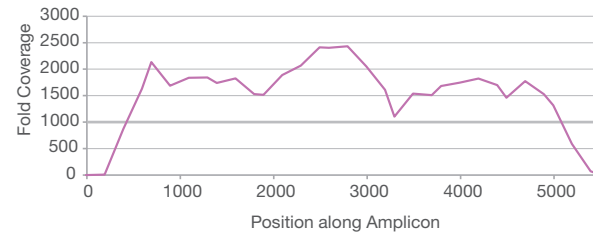
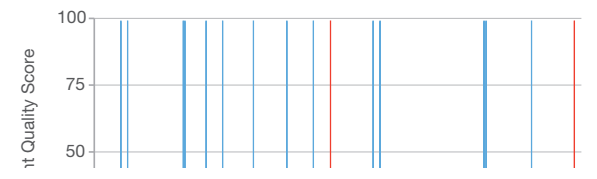
Parameter	Run 1	Run 2	Run 3
Number of Samples	20	20	1
MiSeq Output (Gb)	1.8	2.0	1.9
Mean Depth	1,366	1,410	27,019
% Specificity	93.7	94.5	90.7
% Uniformity	96.2	96.2	94.4
Amplicon Dropouts*	0	0	0

\*Dropouts are defined as amplicons having no sequencing coverage when the sample achieves a mean sequencing depth of > 1000x.

**B**

**A** Three TSACP experiments- two with 20 pooled samples and one with a single sample. Excellent assay performance is shown, with > 90% specificity and uniformity, with zero dropouts across the pooled Runs 1 and 2. Similar output, specificity, and uniformity are obtained with the single sample (Run 3), sequenced at an extremely high depth.

**B** Coverage plot from one sample included in Run 1. The percent of bases covered plotted against the read depth shows that > 80% of bases are covered at 1000x, and ~95% are covered at 500x read depth.

**Figure 4: Low Frequency Variant Detection****A****B**

The TSACP detected a 2.95% variant (A to T SNV) in the *BRAF* gene from a colon cancer sample, with a variant score of Q40, or 99.99% confidence (6,048x coverage).

## Reference

1. TruSeq Amplicon Cancer Panel Manifest File at Myllumina.com

