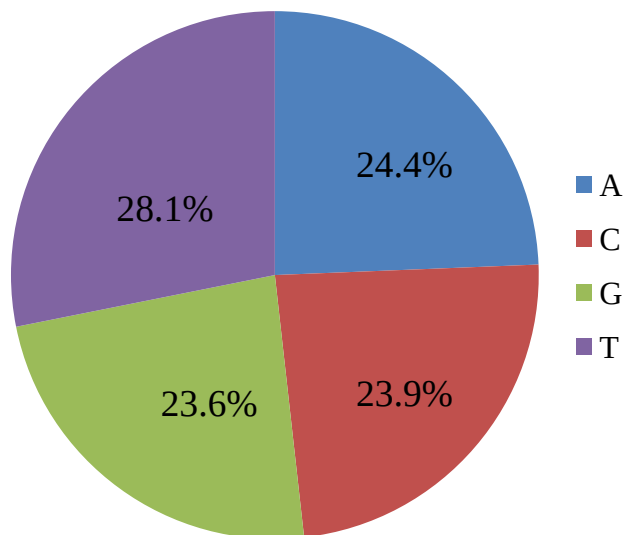
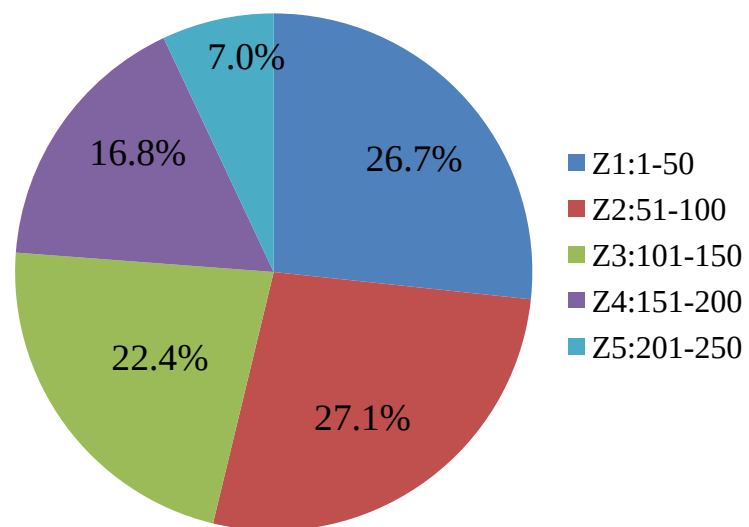




(a)



(b)

Figure S1

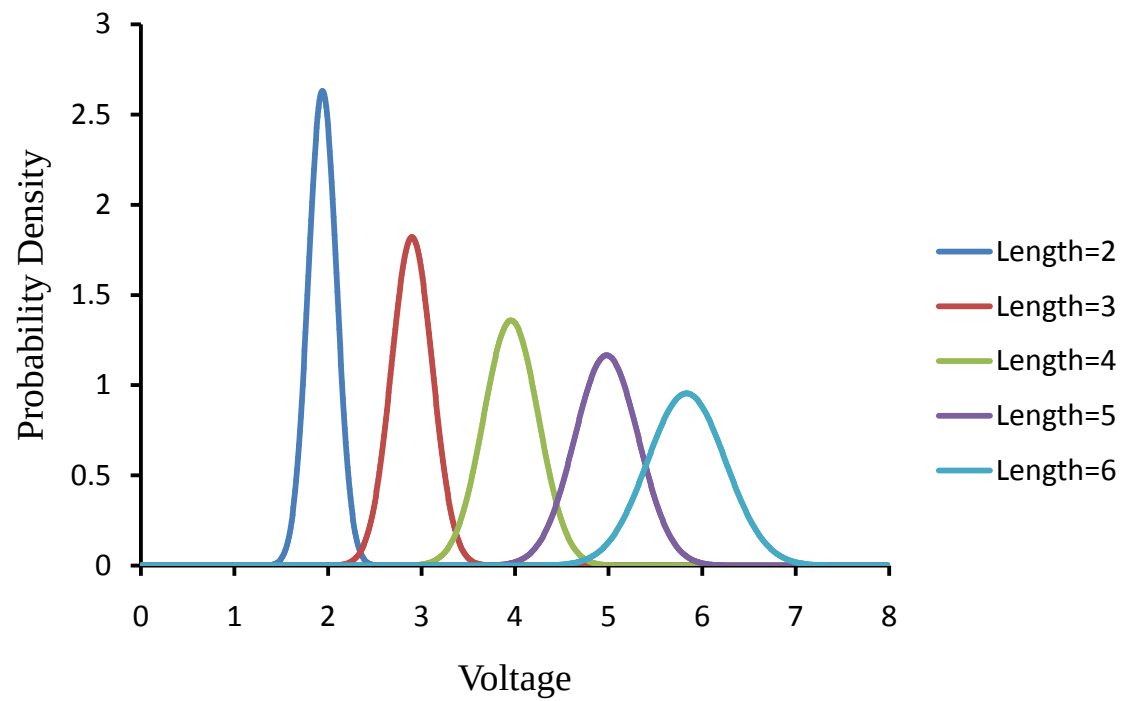
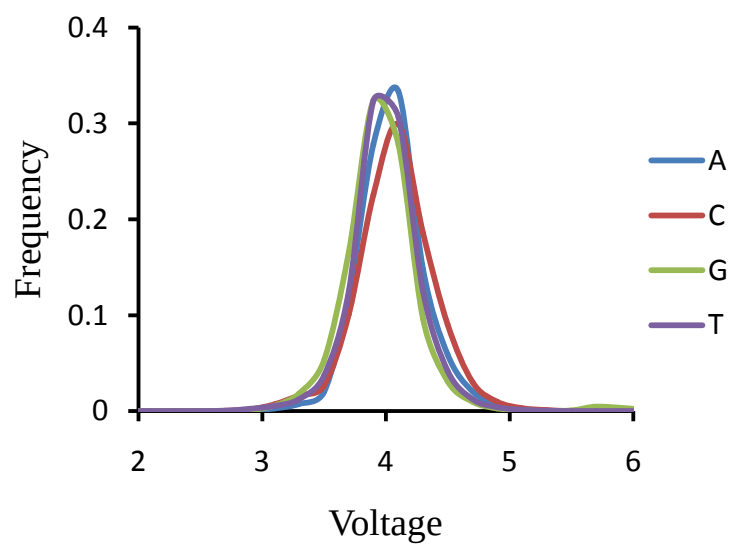
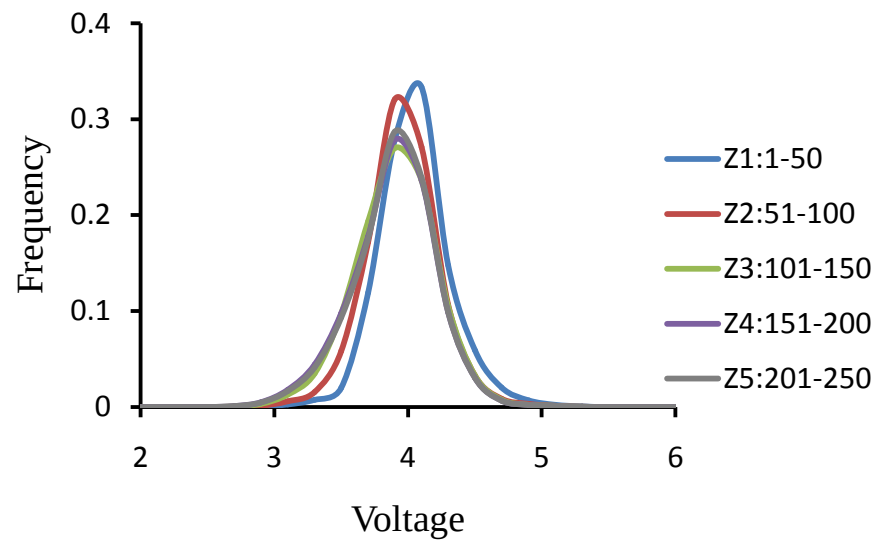


Figure S2

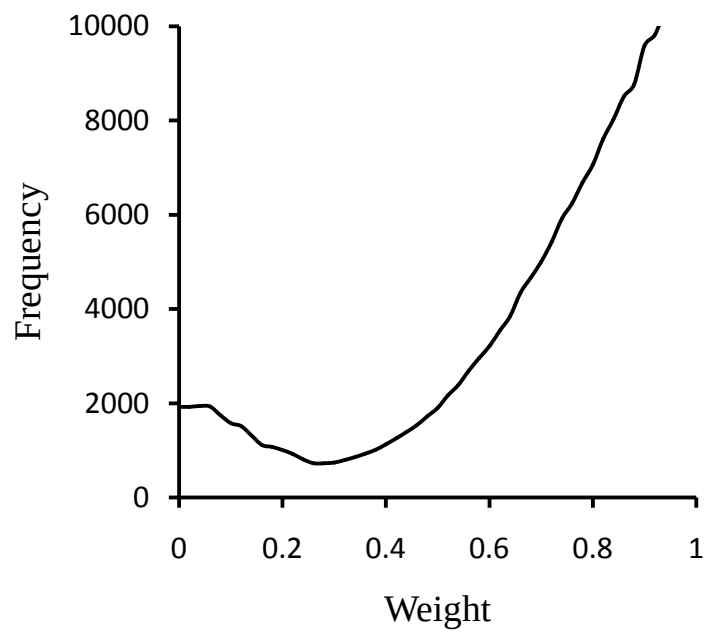


(a)

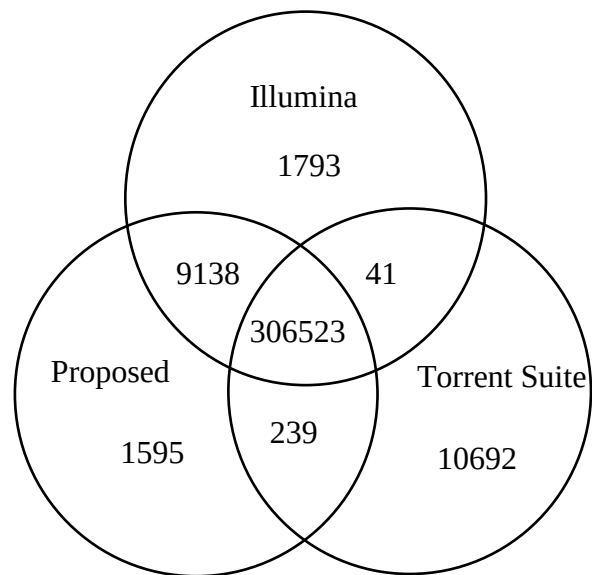


(b)

Figure S3

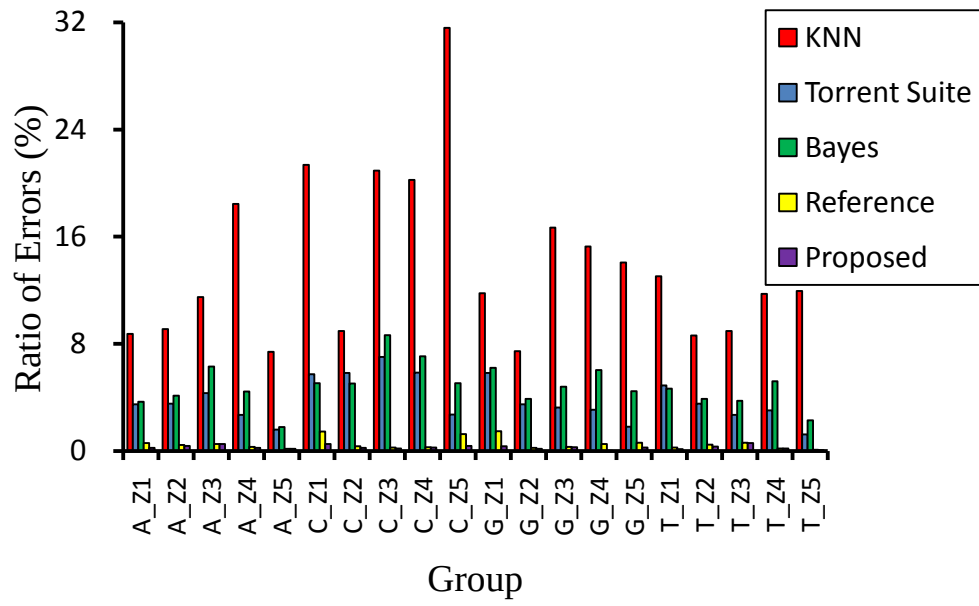


(a)

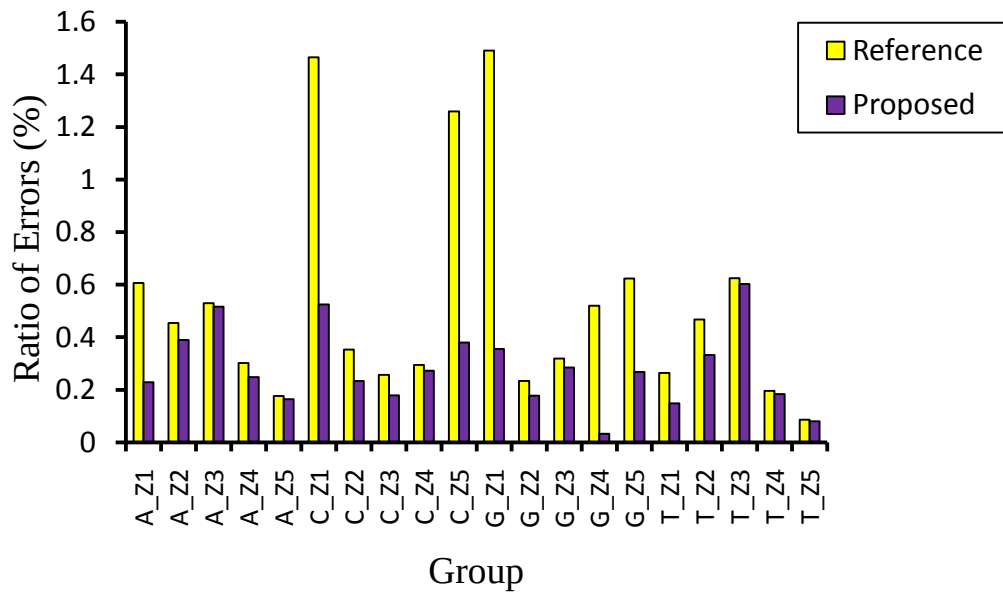


(b)

Figure S4



(a)



(b)

Figure S5

Table S1

No	Nucleotide	Position	Count	Errors(%)					
				KNN	Torrent Suite	Bayesian	Reference	Proposed approach	
								Weight	Errors
1	A	1-50	317495	8.755	3.494	3.681	0.606	0.28	0.229
2	A	51-100	282782	9.099	3.546	4.121	0.454	0.28	0.390
3	A	101-150	223362	11.484	4.332	6.315	0.531	0.18	0.516
4	A	151-200	151061	18.440	2.711	4.441	0.303	0.30	0.249
5	A	201-250	57559	7.403	1.600	1.793	0.177	0.28	0.165
6	C	1-50	265684	21.349	5.735	5.073	1.465	0.32	0.525
7	C	51-100	261905	8.956	5.839	5.035	0.354	0.30	0.234
8	C	101-150	223096	20.922	7.021	8.638	0.257	0.28	0.179
9	C	151-200	183784	20.242	5.854	7.074	0.295	0.20	0.273
10	C	201-250	76544	31.590	2.721	5.070	1.259	0.44	0.380
11	G	1-50	224681	11.779	5.832	6.219	1.490	0.22	0.356
12	G	51-100	289379	7.444	3.476	3.890	0.234	0.26	0.178
13	G	101-150	226858	16.667	3.239	4.811	0.320	0.30	0.285
14	G	151-200	181238	15.260	3.080	6.047	0.520	0.28	0.033
15	G	201-250	79010	14.079	1.805	4.455	0.624	0.34	0.268
16	T	1-50	322591	13.047	4.907	4.664	0.264	0.26	0.149
17	T	51-100	313631	8.631	3.527	3.886	0.468	0.32	0.332
18	T	101-150	276658	8.951	2.695	3.748	0.625	0.28	0.603
19	T	151-200	195991	11.727	3.029	5.219	0.196	0.16	0.184
20	T	201-250	83250	11.933	1.253	2.281	0.086	0.16	0.080