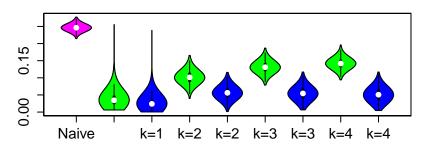
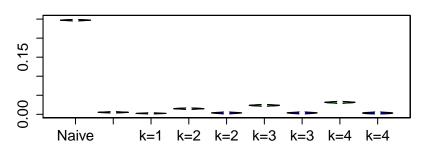
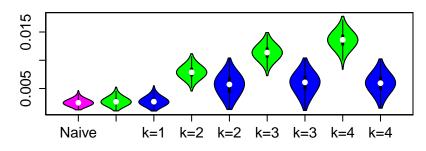
M = 1, N = 10, r = 1000, clusters = 2



$$M = 1$$
, $N = 100$, $r = 1000$, clusters = 2



M = 100, N = 10, r = 1000, clusters = 2



M = 100, N = 100, r = 1000, clusters = 2

