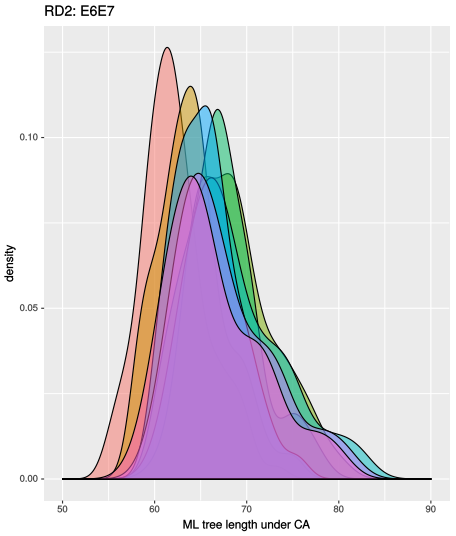
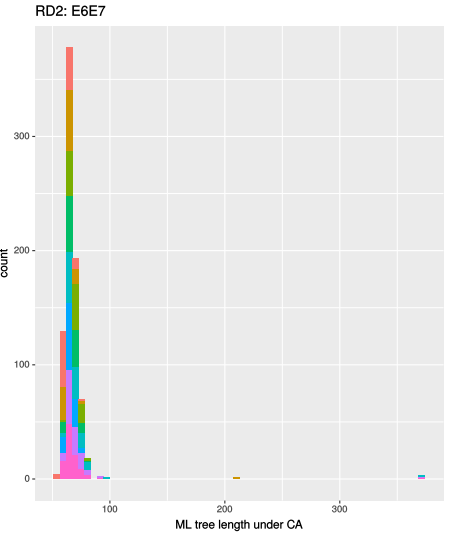


Random Permutation Test

Reduced Dataset 2: E6E7

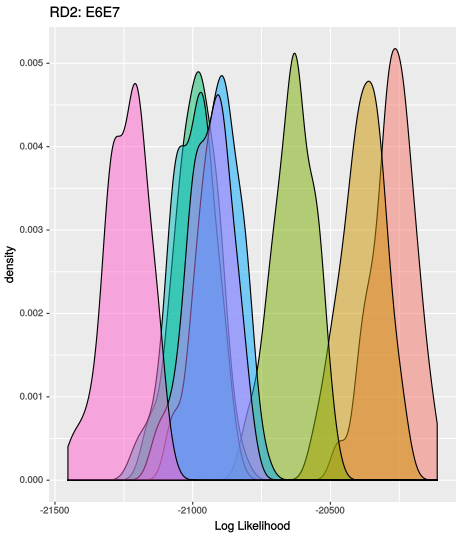
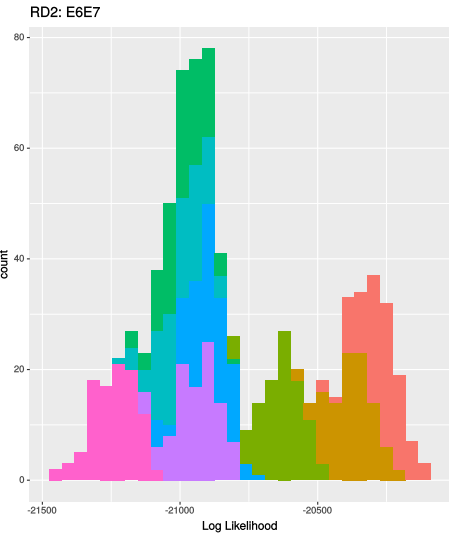
- H0: (gray-blue-yellow-red-black-green)
H1: gray+(blue-yellow-red-black-green)
H2: gray+blue+(yellow-red-black-green)
H3: gray+blue+yellow+(red-black-green)
H4: gray+blue+yellow+red+(black-green)
H5: gray+blue+(red-black)+(green-yellow)
H6: gray+blue+red+black+(green-yellow)
H7: gray+blue+yellow+red+black+green



Kruskal-Wallis rank sum test on ML tree length
chi-squared = 167.42, df = 7, p-value < 2.2e-16

Multiple comparison test after Kruskal-Wallis
p.value: 0.05

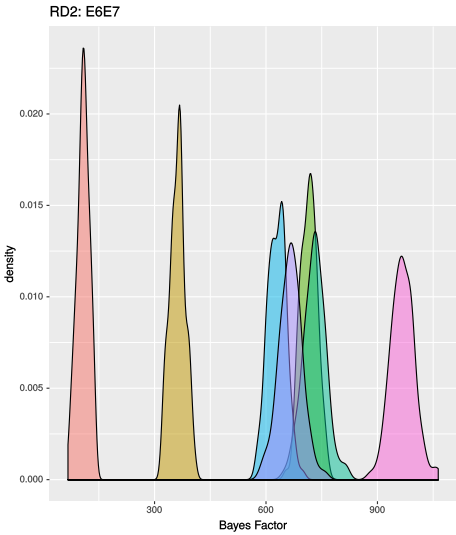
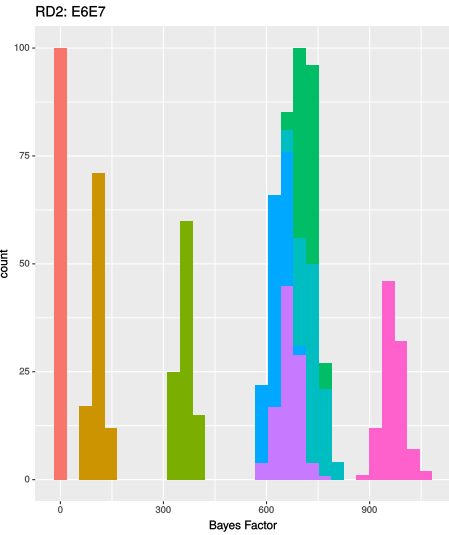
	obs.dif	critical.dif	difference
tlen_H0-tlen_H1	101.57	102.0845	FALSE
tlen_H0-tlen_H2	328.90	102.0845	TRUE
tlen_H0-tlen_H3	263.70	102.0845	TRUE
tlen_H0-tlen_H4	320.92	102.0845	TRUE
tlen_H0-tlen_H5	180.01	102.0845	TRUE
tlen_H0-tlen_H6	267.30	102.0845	TRUE
tlen_H0-tlen_H7	216.08	102.0845	TRUE



Kruskal-Wallis rank sum test on the Log Likelihood
chi-squared = 705.72, df = 7, p-value < 2.2e-16

Multiple comparison test after Kruskal-Wallis
p.value: 0.05

	obs.dif	critical.dif	difference
lnl_H0-lnl_H1	68.72	102.0845	FALSE
lnl_H0-lnl_H2	183.82	102.0845	TRUE
lnl_H0-lnl_H3	475.45	102.0845	TRUE
lnl_H0-lnl_H4	494.20	102.0845	TRUE
lnl_H0-lnl_H5	360.52	102.0845	TRUE
lnl_H0-lnl_H6	407.66	102.0845	TRUE
lnl_H0-lnl_H7	681.23	102.0845	TRUE



Kruskal-Wallis rank sum test on the ΔBF
chi-squared = 654.07, df = 6, p-value < 2.2e-16

Multiple comparison test after Kruskal-Wallis
p.value: 0.05

	obs.dif	critical.dif	difference
bf_H1-bf_H2	100.00	86.8822	TRUE
bf_H1-bf_H3	423.75	86.8822	TRUE
bf_H1-bf_H4	459.52	86.8822	TRUE
bf_H1-bf_H5	218.17	86.8822	TRUE
bf_H1-bf_H6	298.56	86.8822	TRUE
bf_H1-bf_H7	600.00	86.8822	TRUE
bf_H2-bf_H3	323.75	86.8822	TRUE
bf_H2-bf_H4	359.52	86.8822	TRUE
bf_H2-bf_H5	118.17	86.8822	TRUE
bf_H2-bf_H6	198.56	86.8822	TRUE
bf_H2-bf_H7	500.00	86.8822	TRUE
bf_H3-bf_H4	35.77	86.8822	FALSE
bf_H3-bf_H5	205.58	86.8822	TRUE
bf_H3-bf_H6	125.19	86.8822	TRUE
bf_H3-bf_H7	176.25	86.8822	TRUE
bf_H4-bf_H5	241.35	86.8822	TRUE
bf_H4-bf_H6	160.96	86.8822	TRUE
bf_H4-bf_H7	140.48	86.8822	TRUE
bf_H5-bf_H6	80.39	86.8822	FALSE
bf_H5-bf_H7	381.83	86.8822	TRUE
bf_H6-bf_H7	301.44	86.8822	TRUE