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A. The test schematic of the inverter(15nm&45nm).

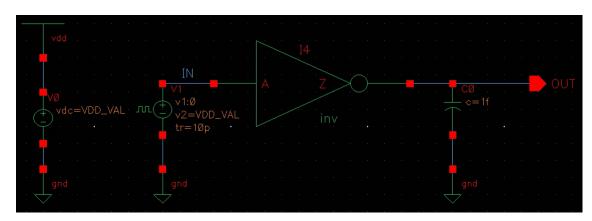


Figure 1 test schematic of the 15nm inverter

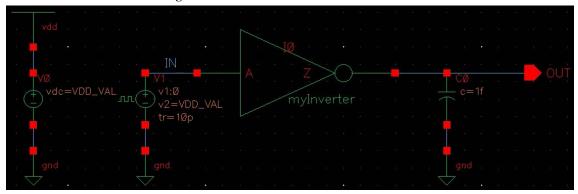


Figure 2 test schematic of the 45nm inverter

B. The layout of the inverter(15nm&45nm).

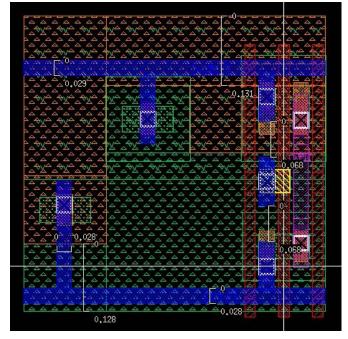


Figure 3 layout of the 15nm inverter

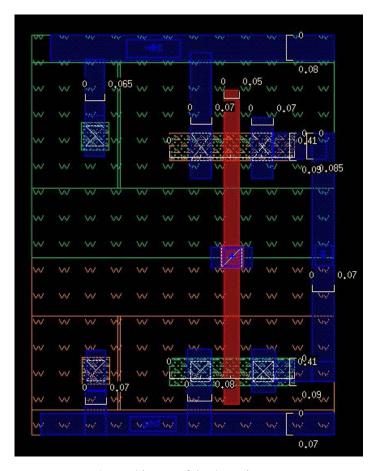


Figure 4 layout of the 45nm inverter

C. Diagrams of DRC, LVS & PEX pass.

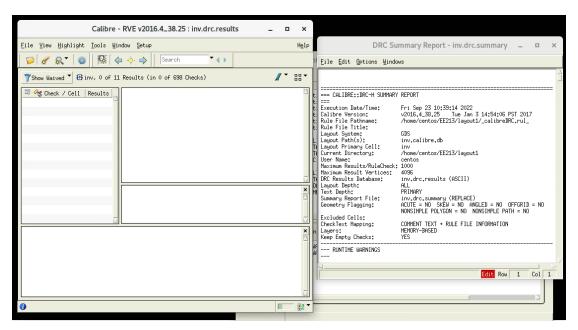


Figure 5 DRC pass of 15nm inverter layout

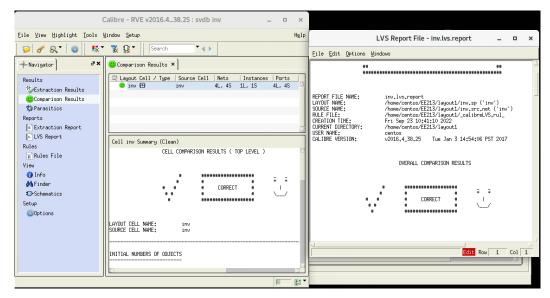


Figure 6 LVS pass of the 15nm inverter layout

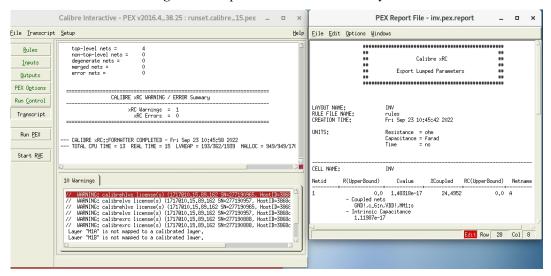


Figure 7 PEX pass of the 15nm inverter layout

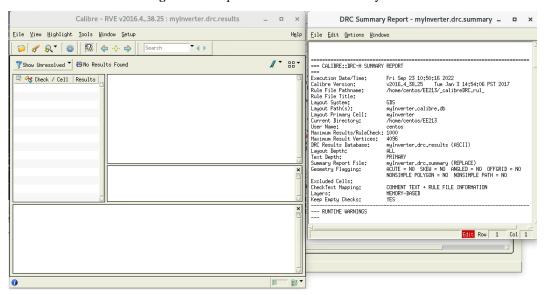


Figure 8 DRC pass of the 45nm inverter layout

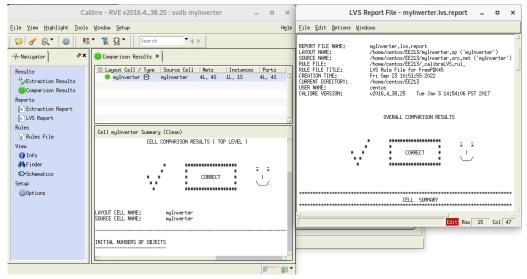


Figure 9 LVS pass of the 45nm inverter layout

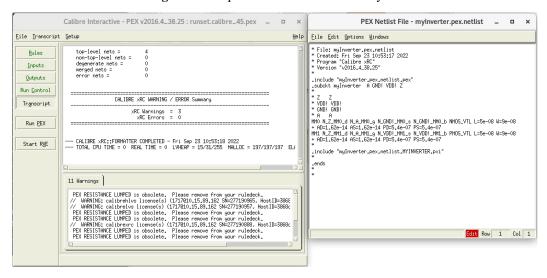


Figure 10 PEX pass of the 45nm inverter layout

D. The simulation results of schematic and layout(15nm&45nm).

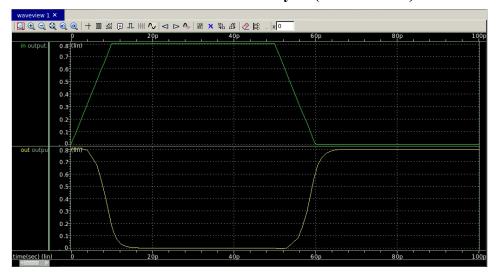


Figure 11 simulation of the 15nm inverter schematic

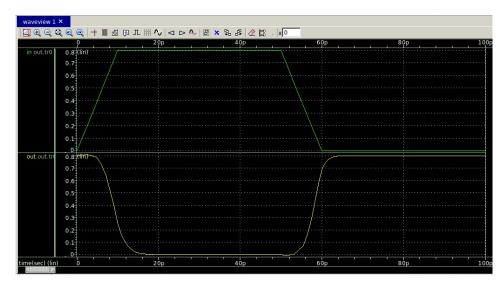


Figure 12 simulation of the 15nm inverter layout

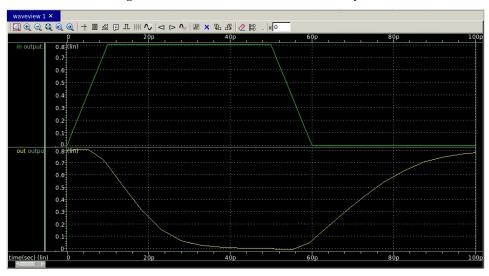


Figure 13 simulation of the 45nm inverter schematic

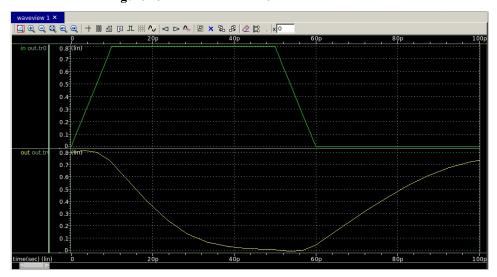


Figure 14 simulation of the 45nm inverter layout