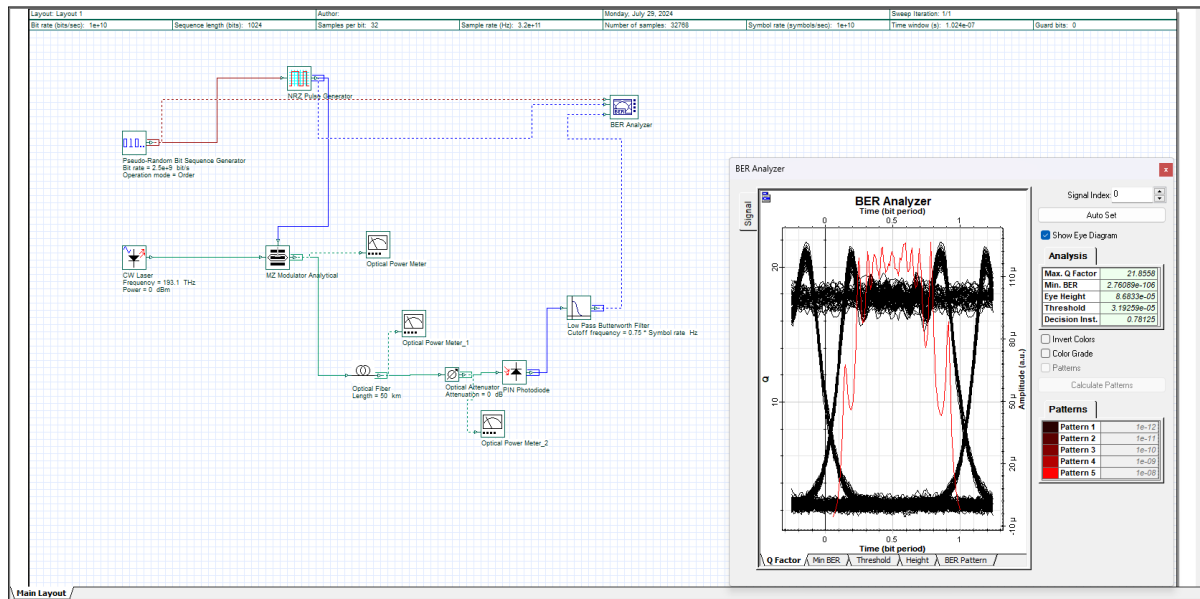
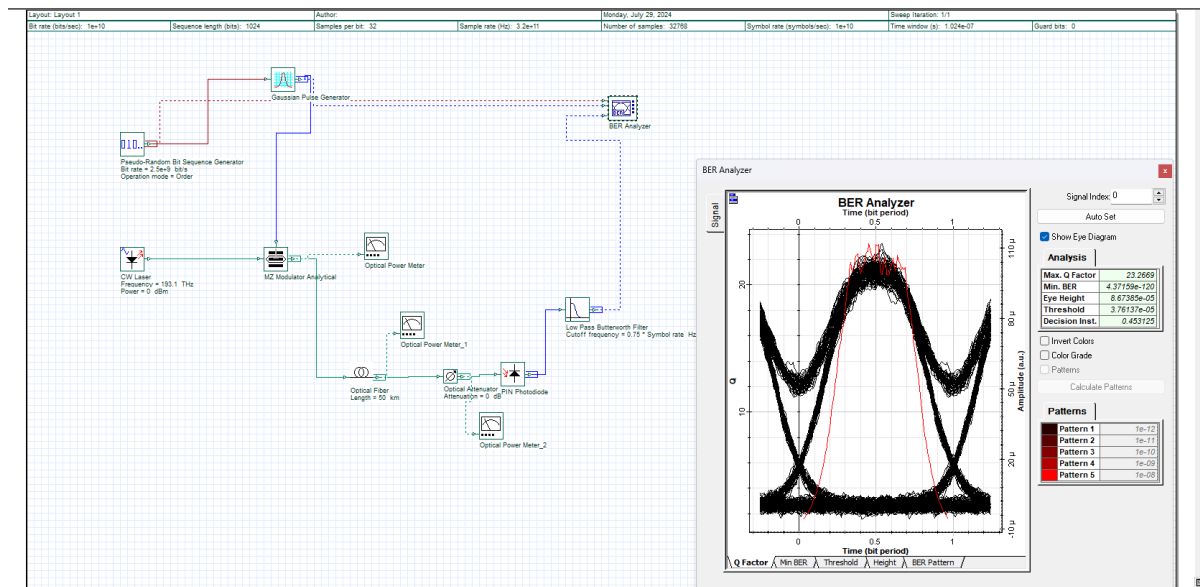


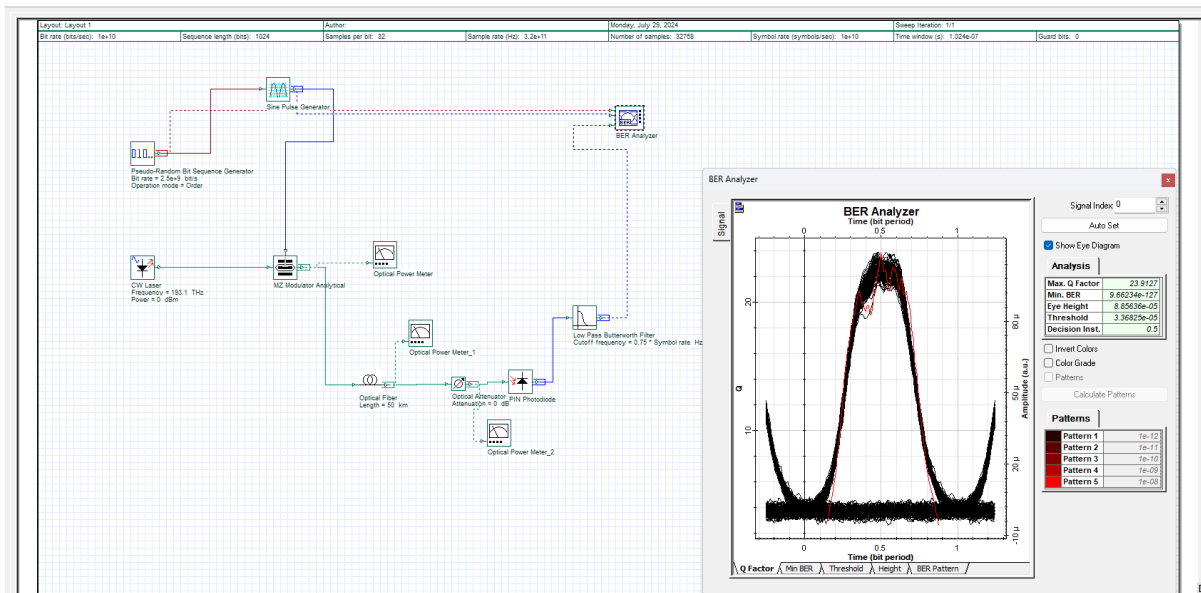
NRZ



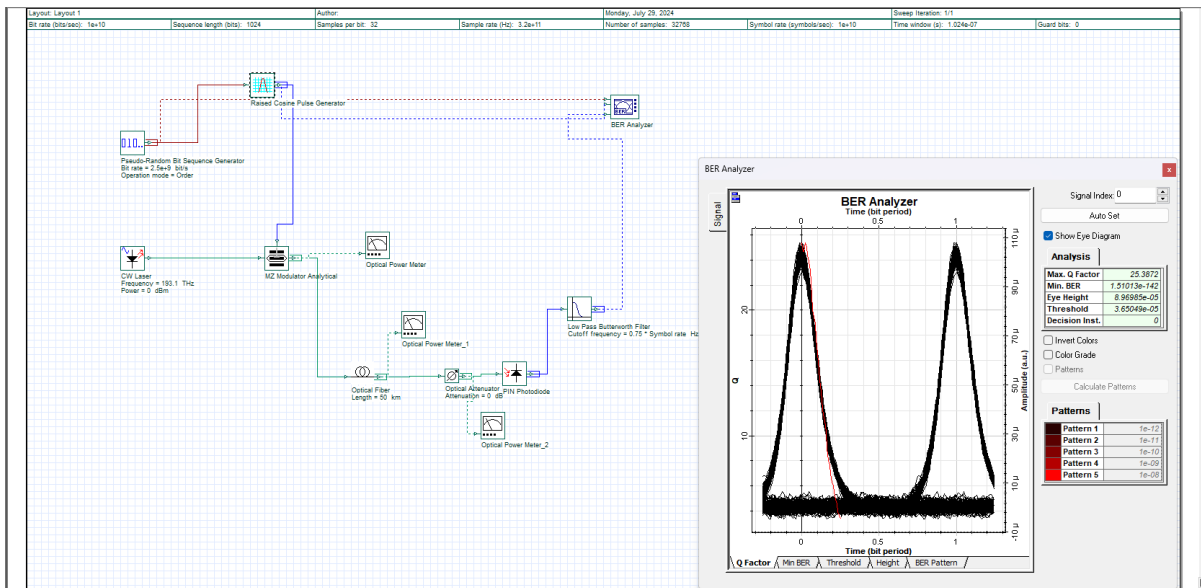
Gaussian



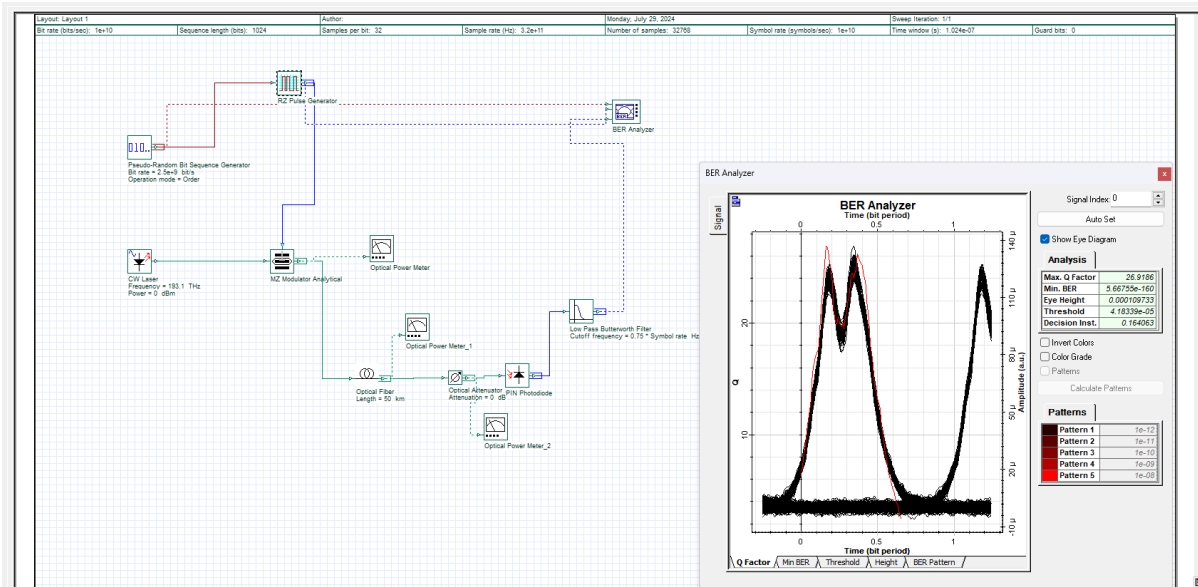
Sine Pulse



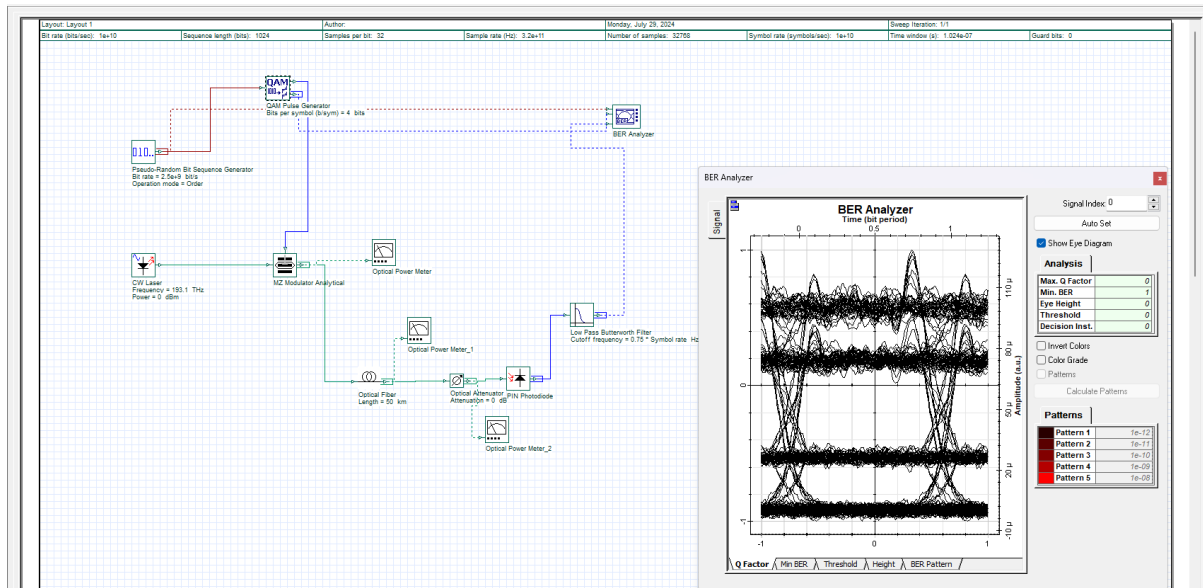
Raised Cosine Pulse



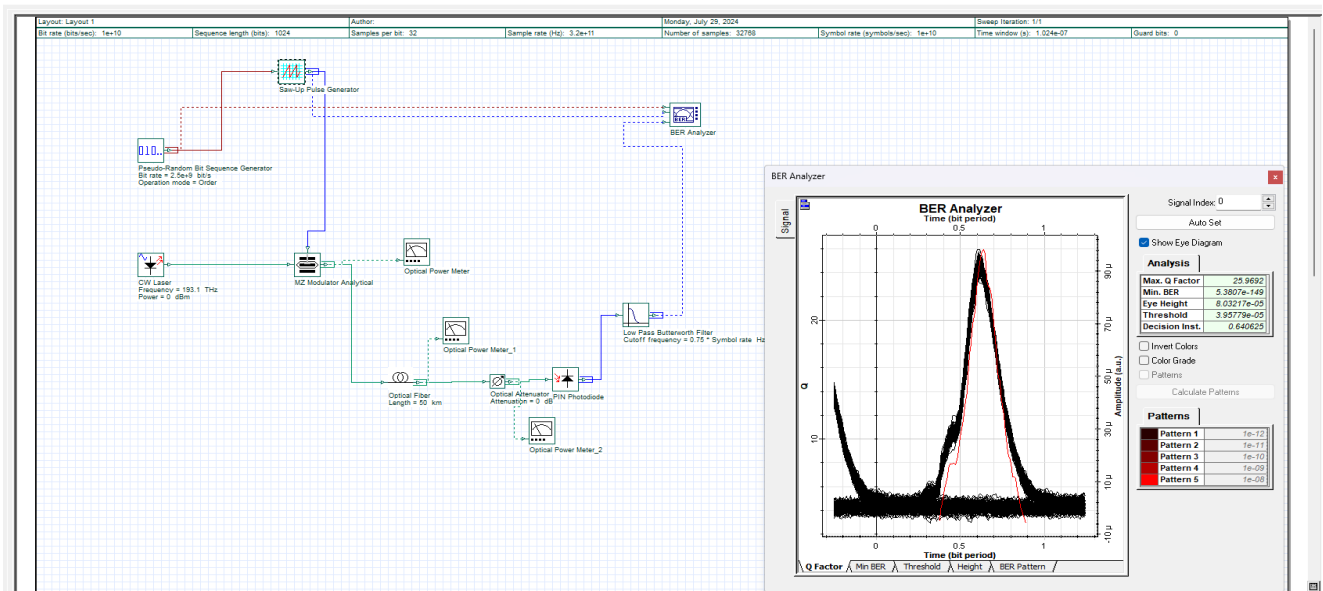
RZ



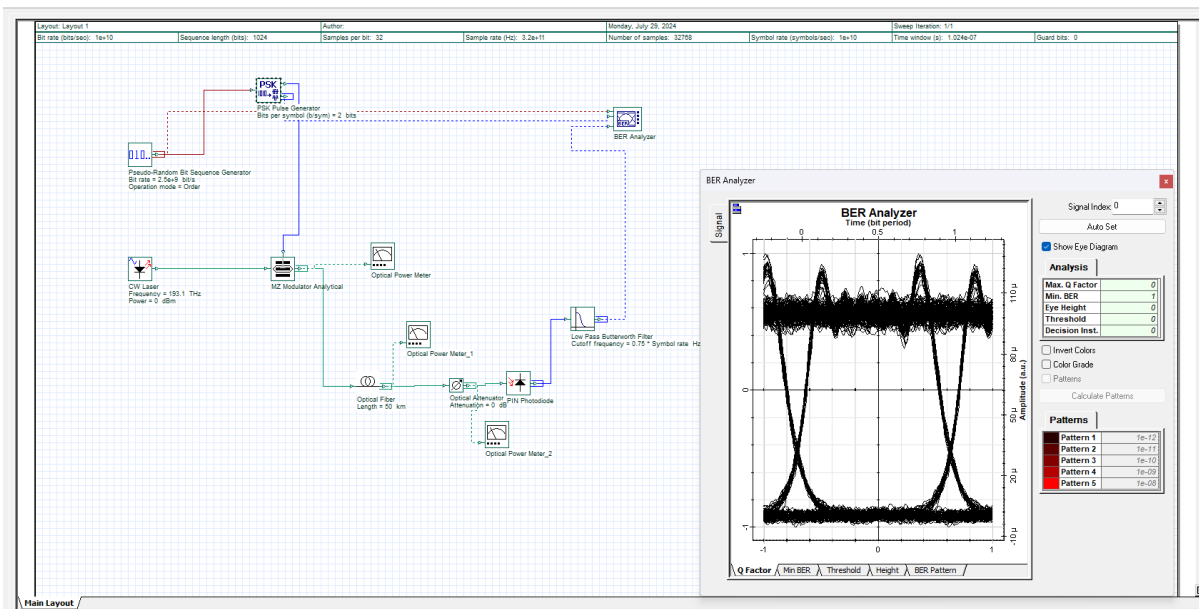
QAM



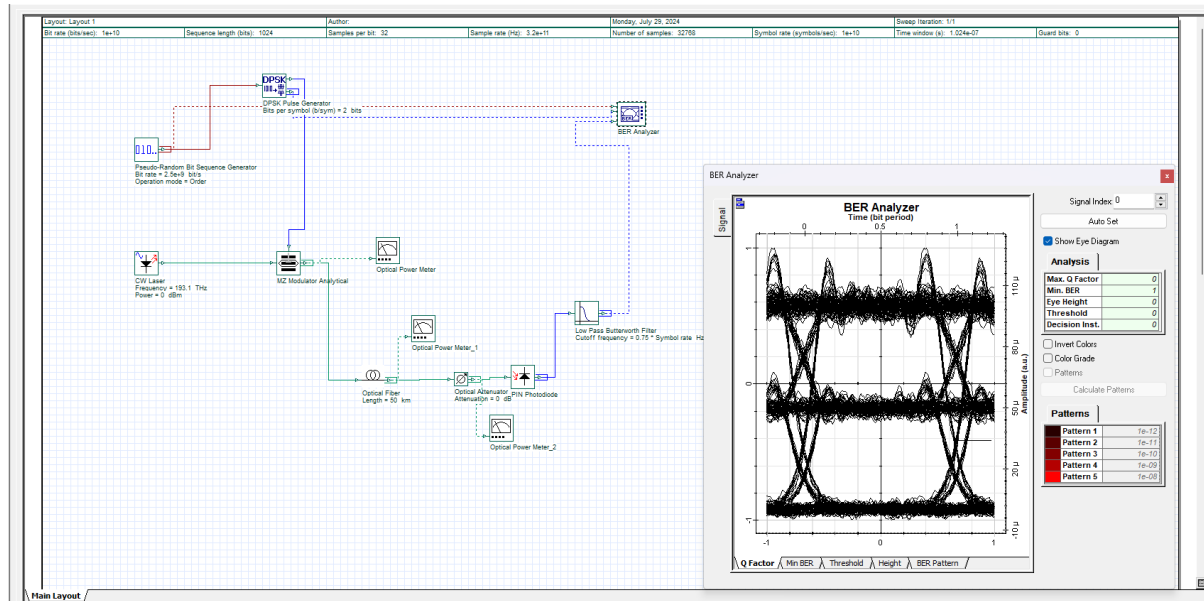
Saw up



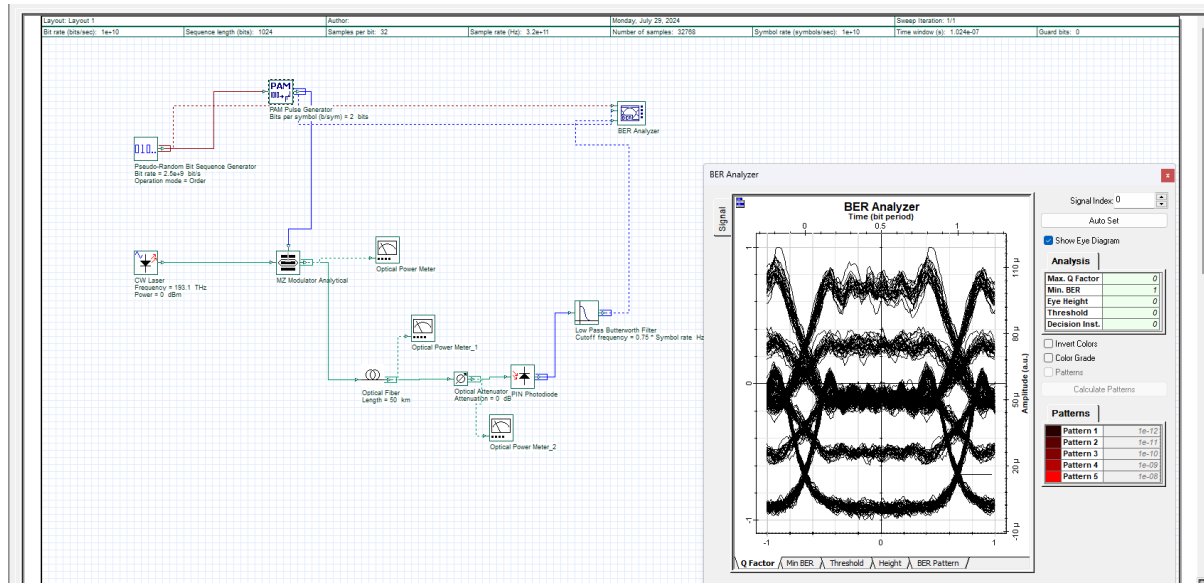
PSK



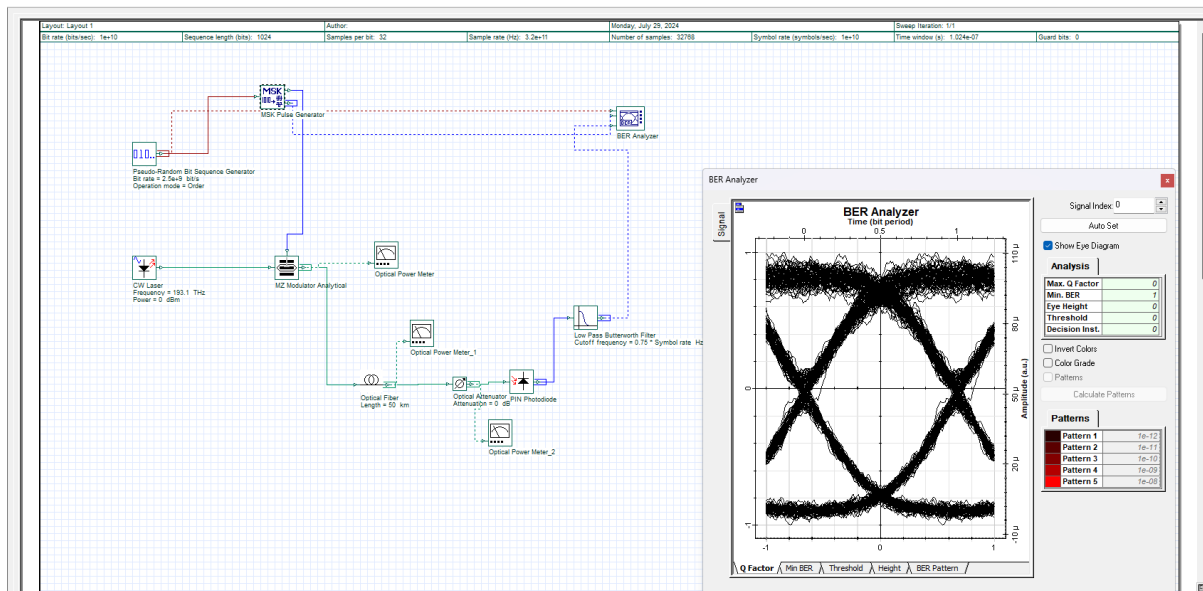
DPSK



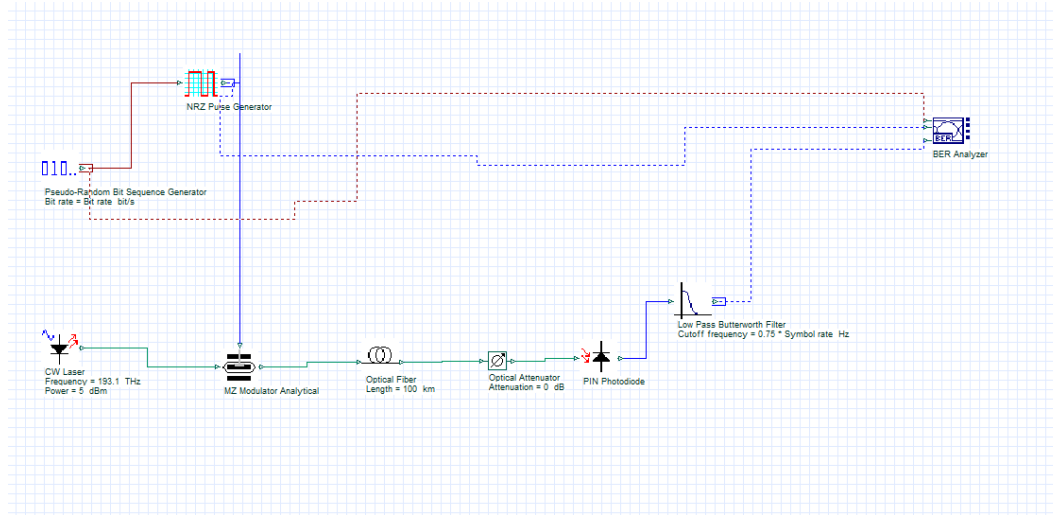
PAM



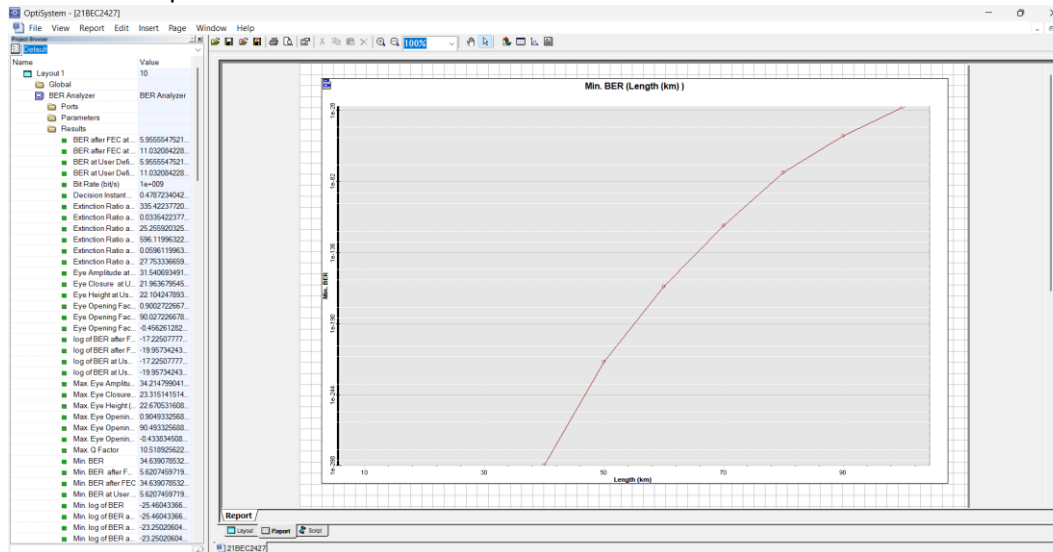
MSK



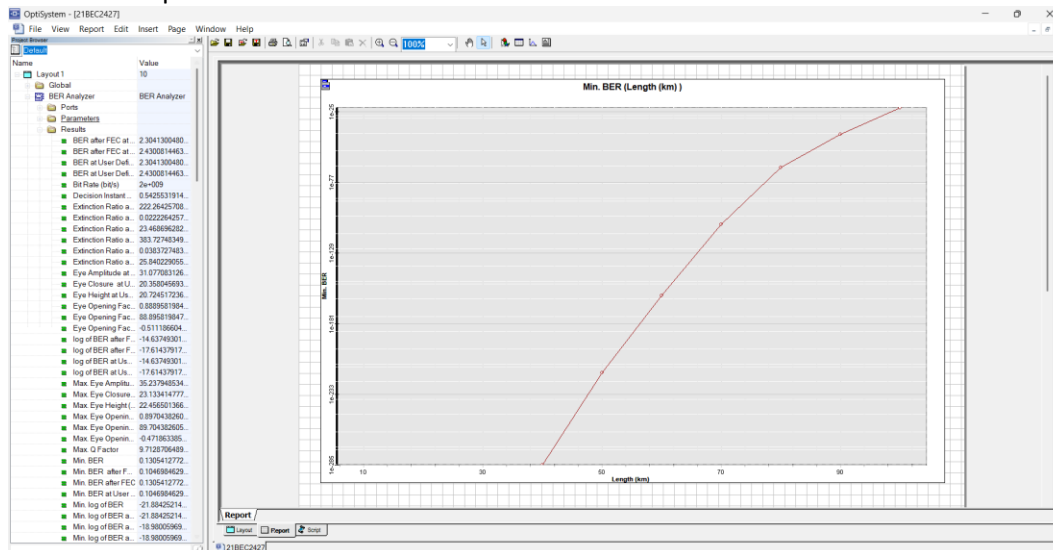
Indirect Modulation



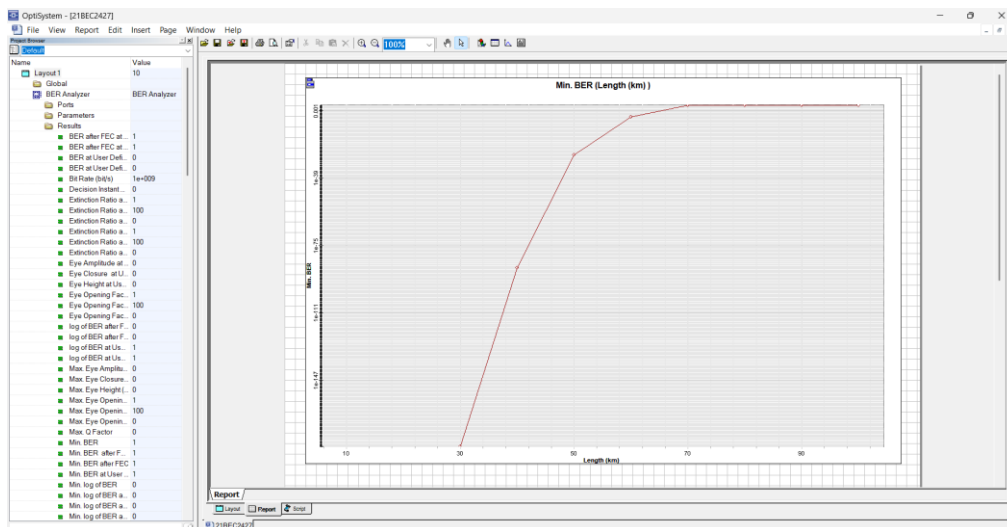
1550 nm 1Gbps



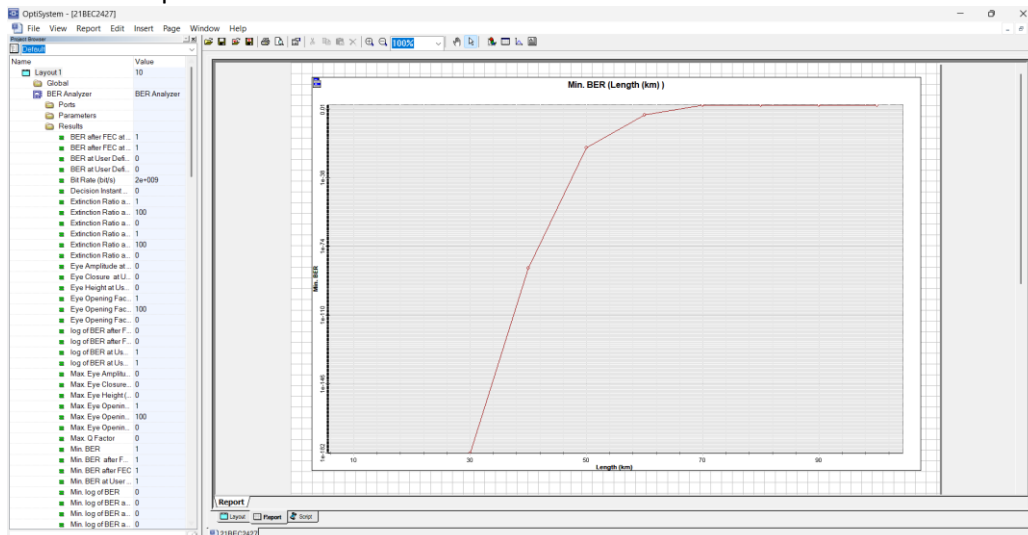
1550nm 1Gbps



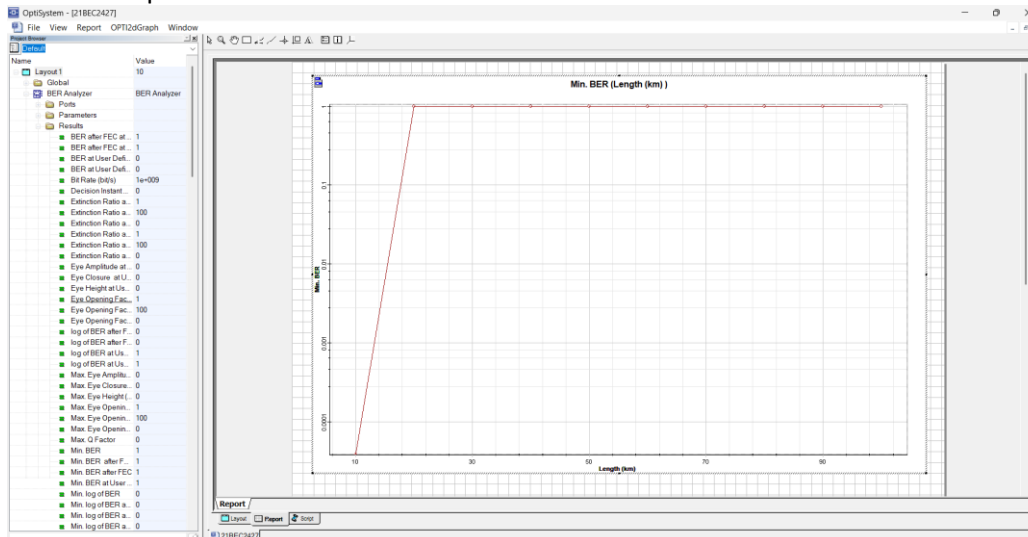
1310nm 1Gbps



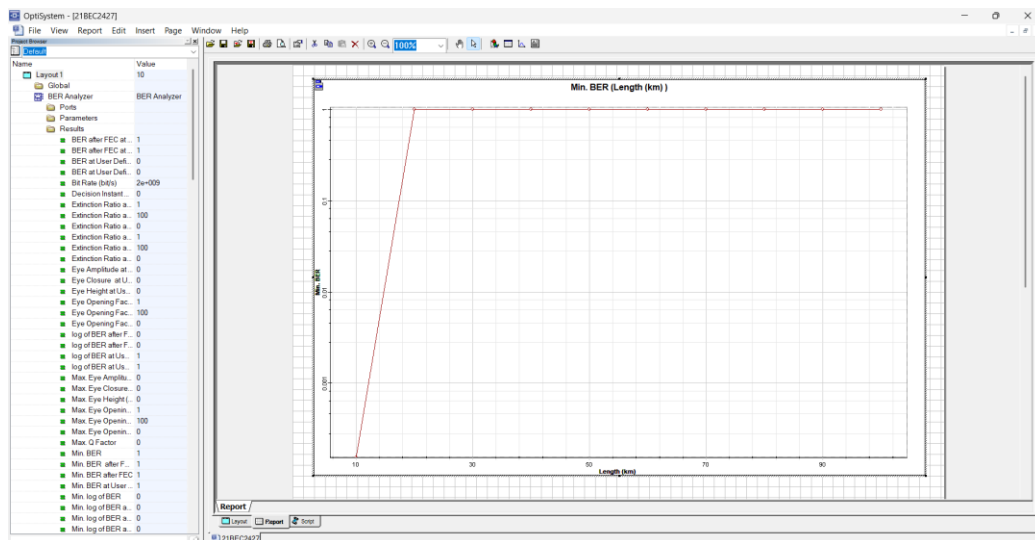
1310nm 2Gbps



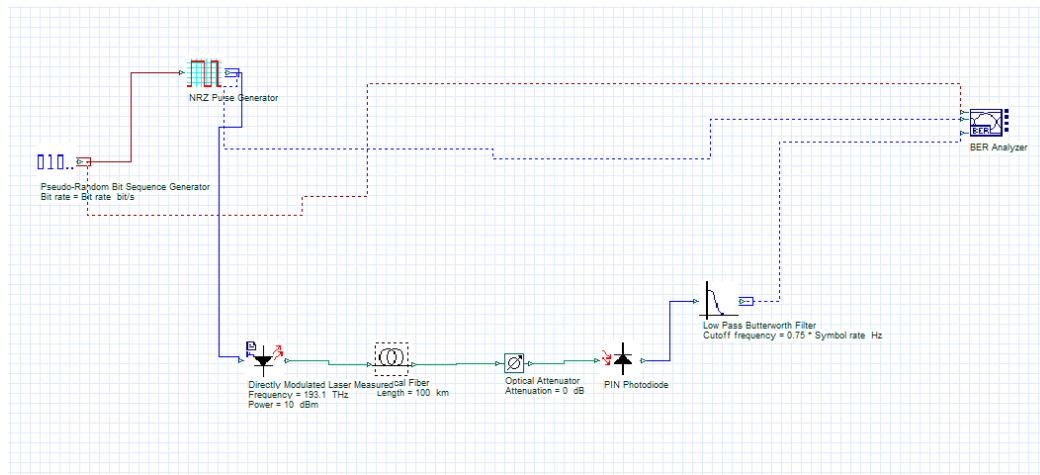
850nm 1Gbps



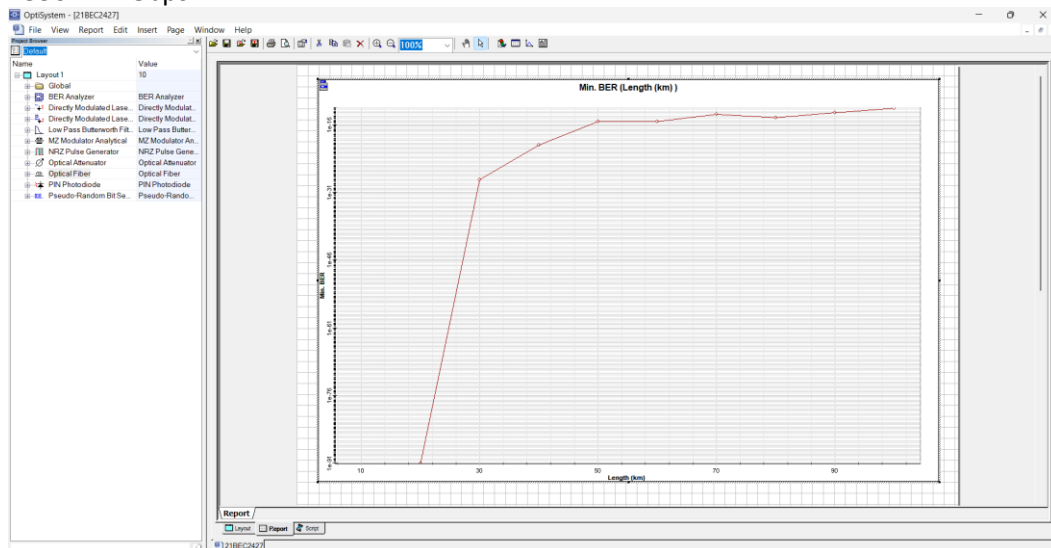
850nm 2Gbps



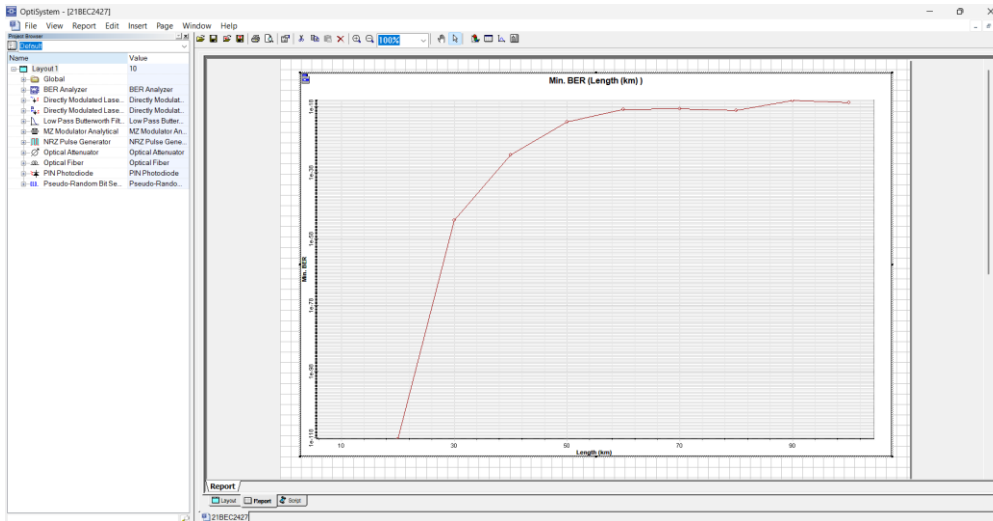
Direct Modulation



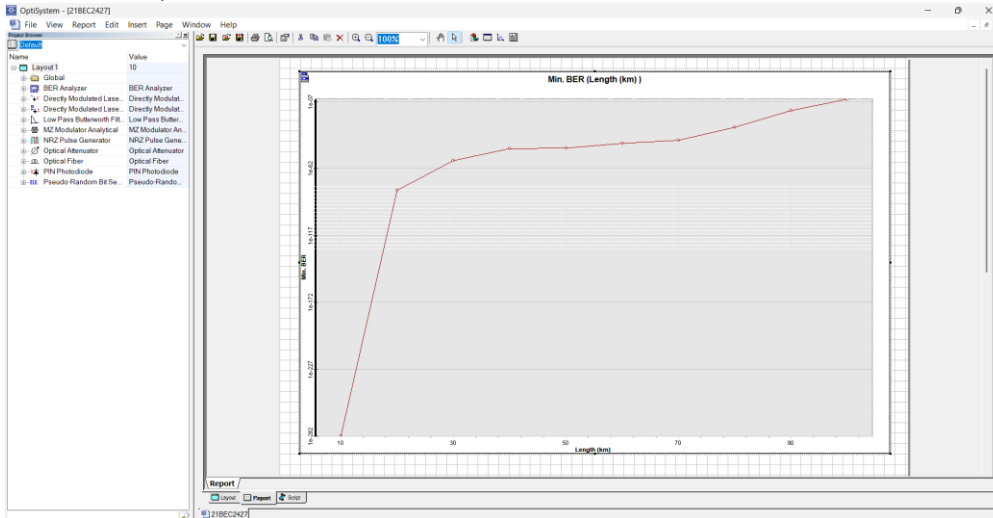
1550nm 1Gbps



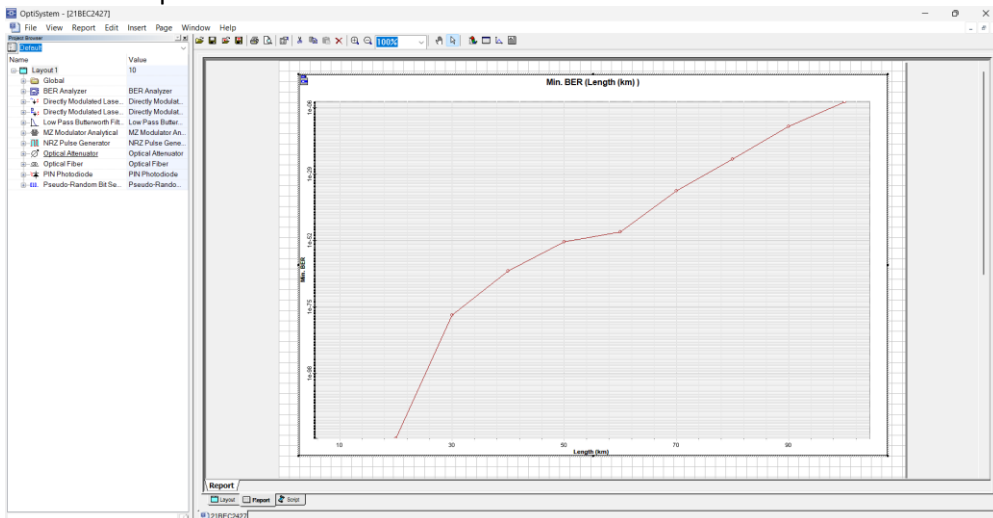
1550nm 2Gbps



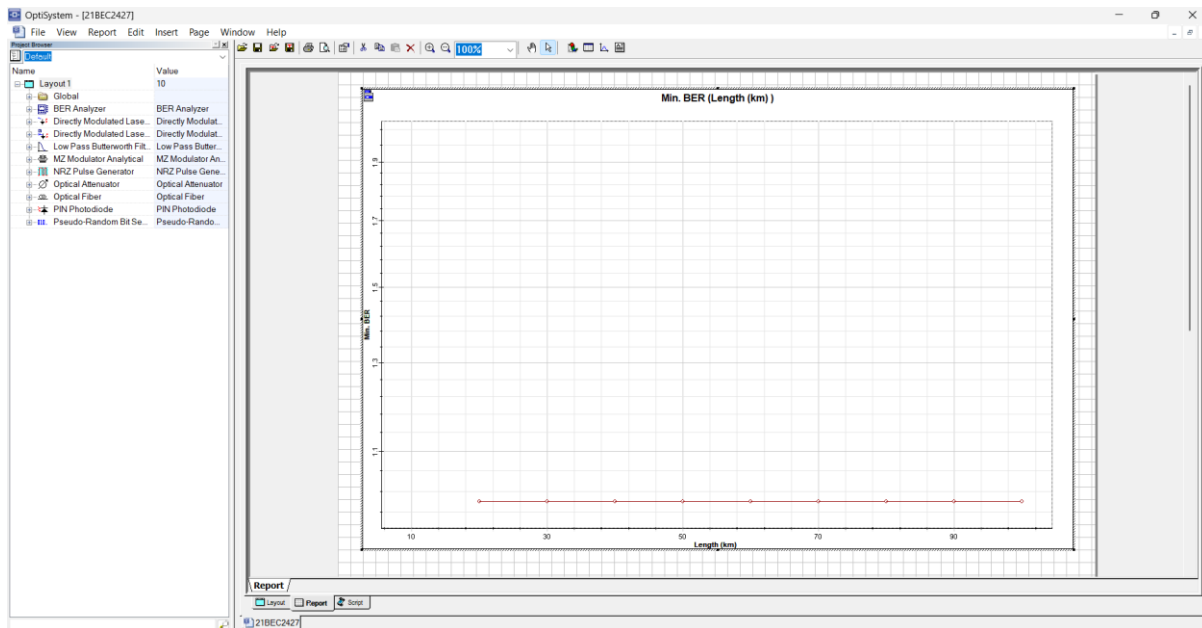
1310nm 1Gbps



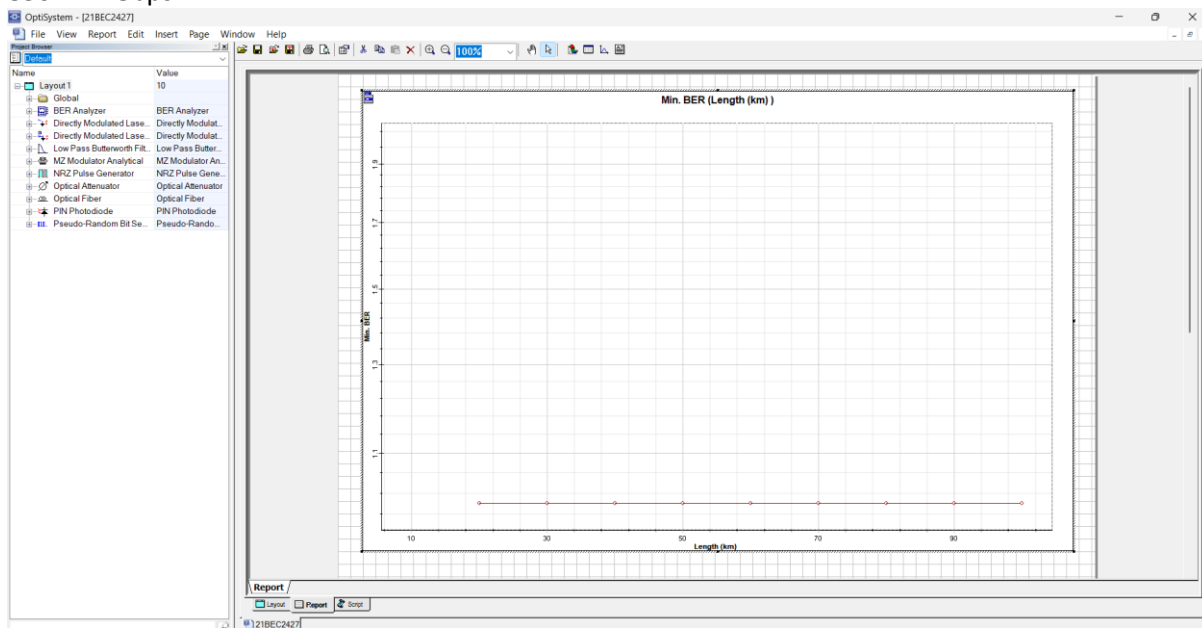
1310nm 2Gbps



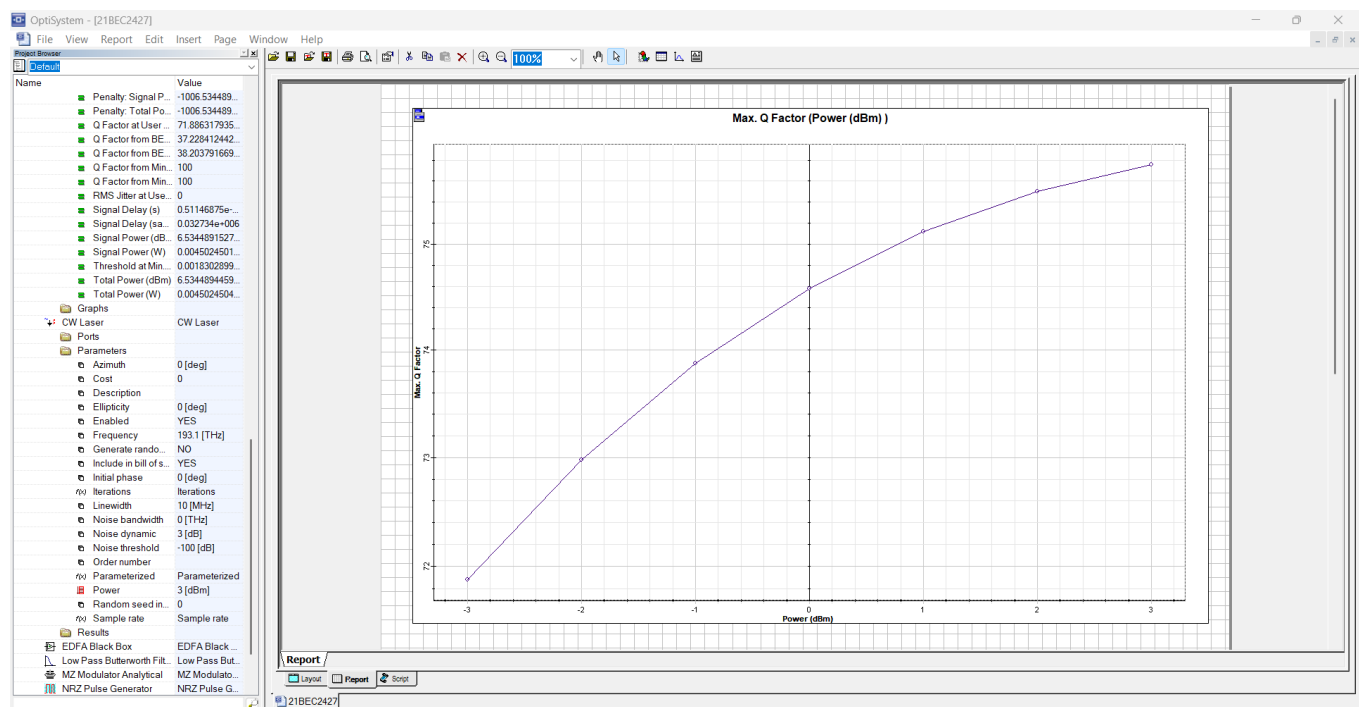
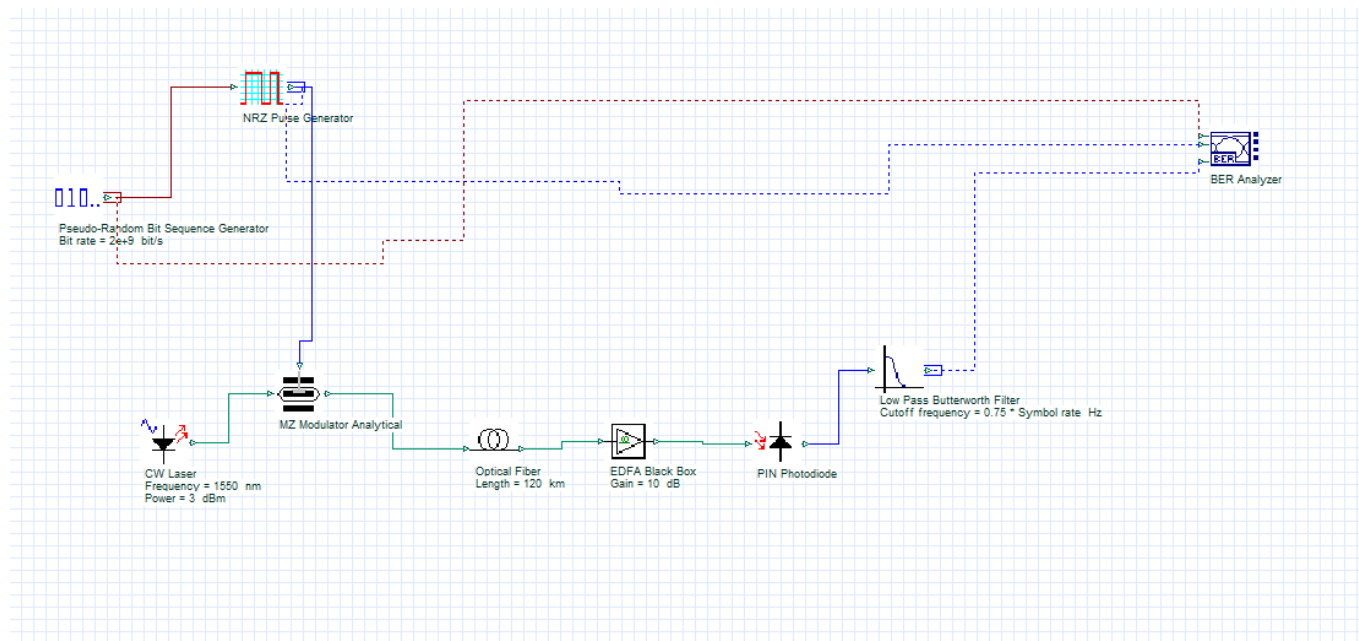
850nm 1Gbps



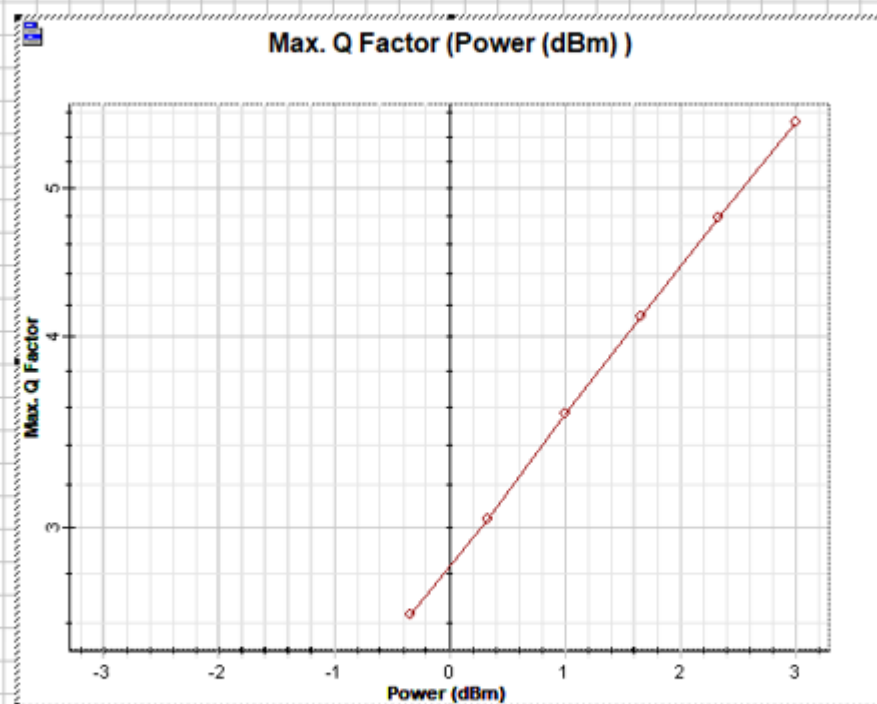
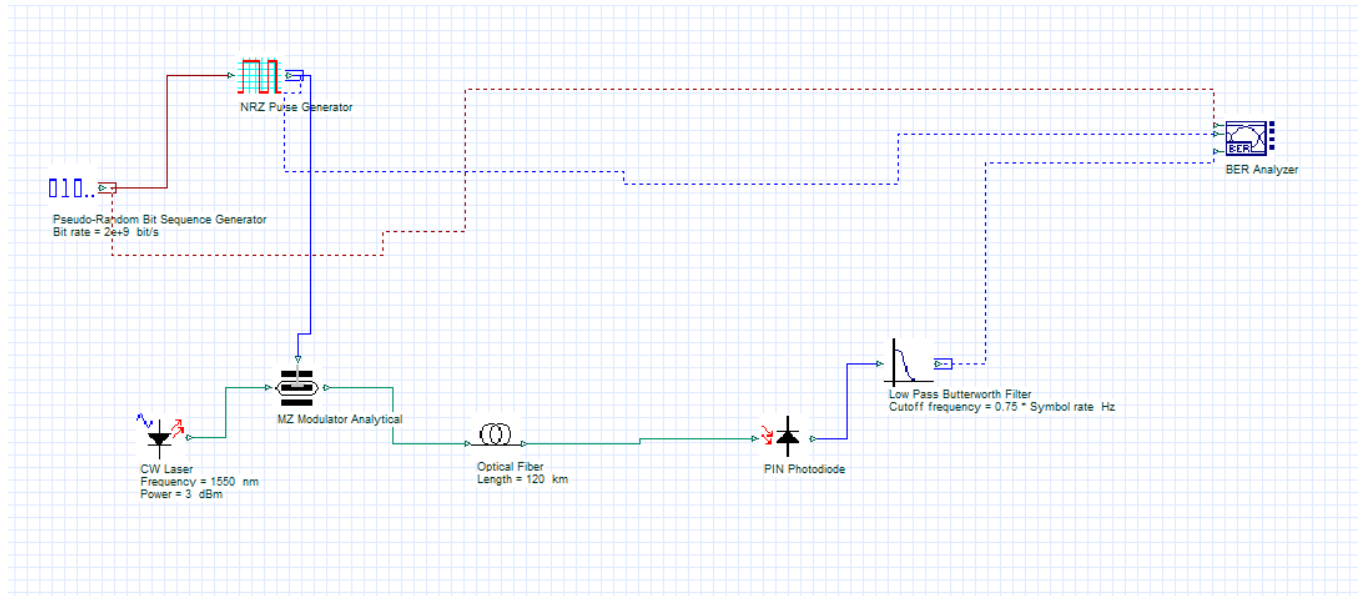
850nm 2Gbps



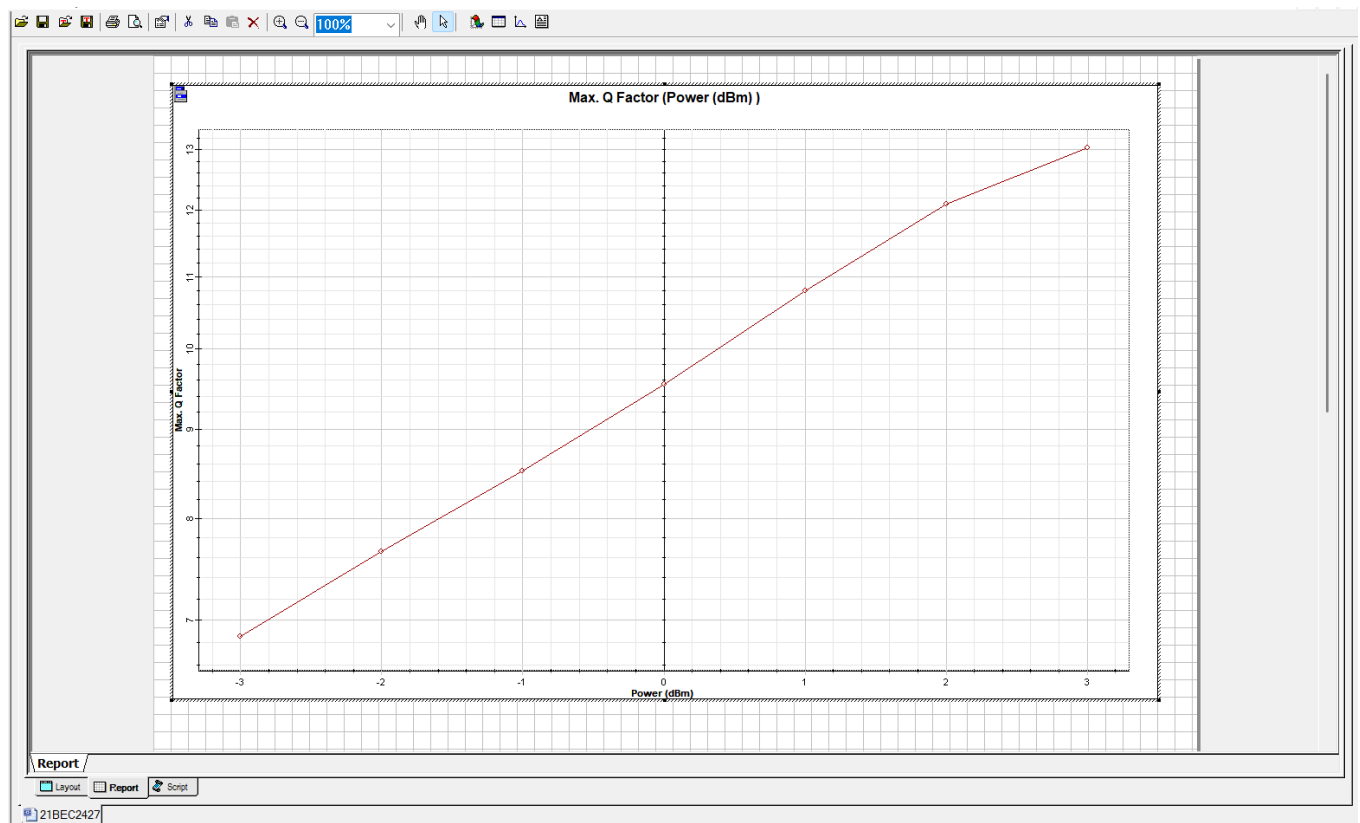
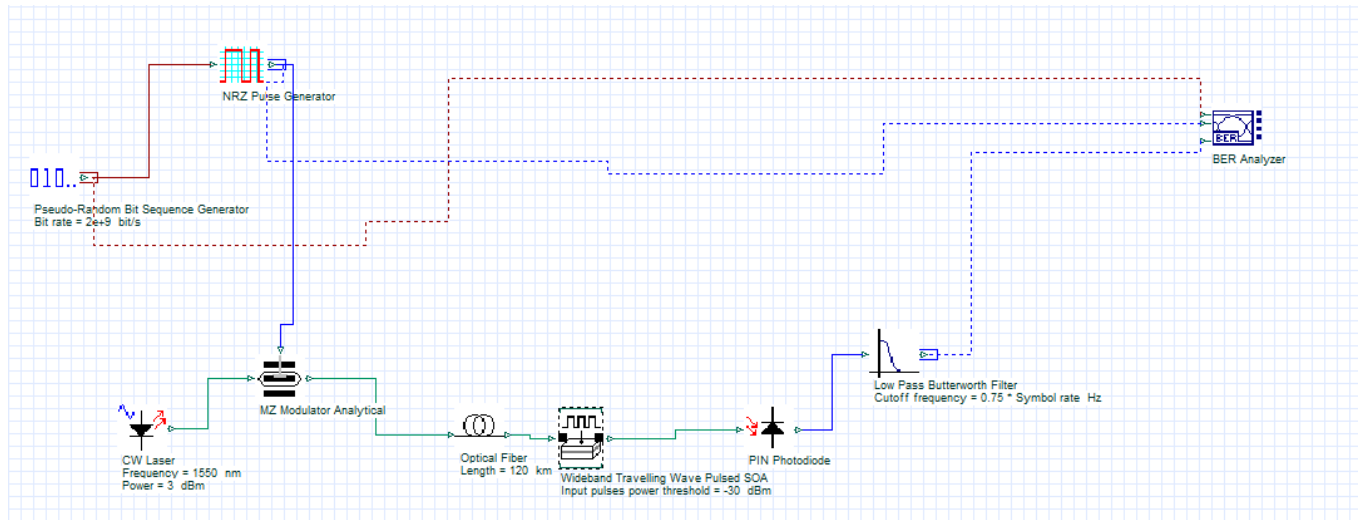
Post amplifier With EDFA



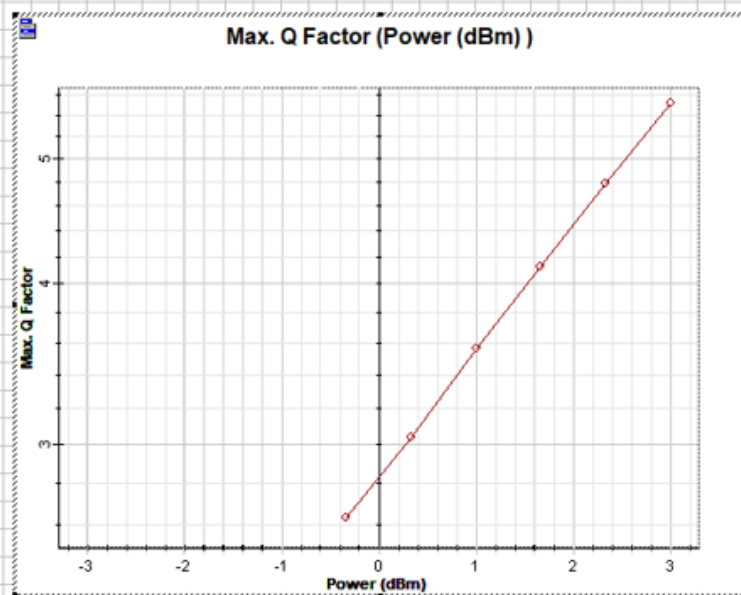
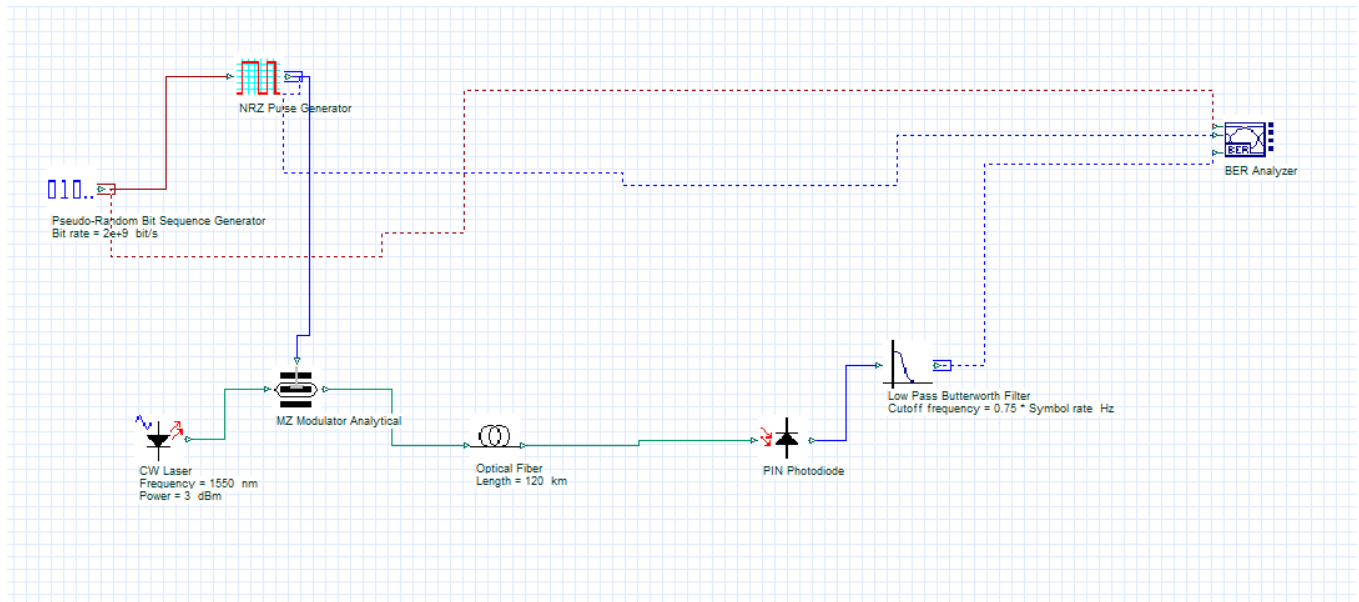
Post amplifier Without EDFA



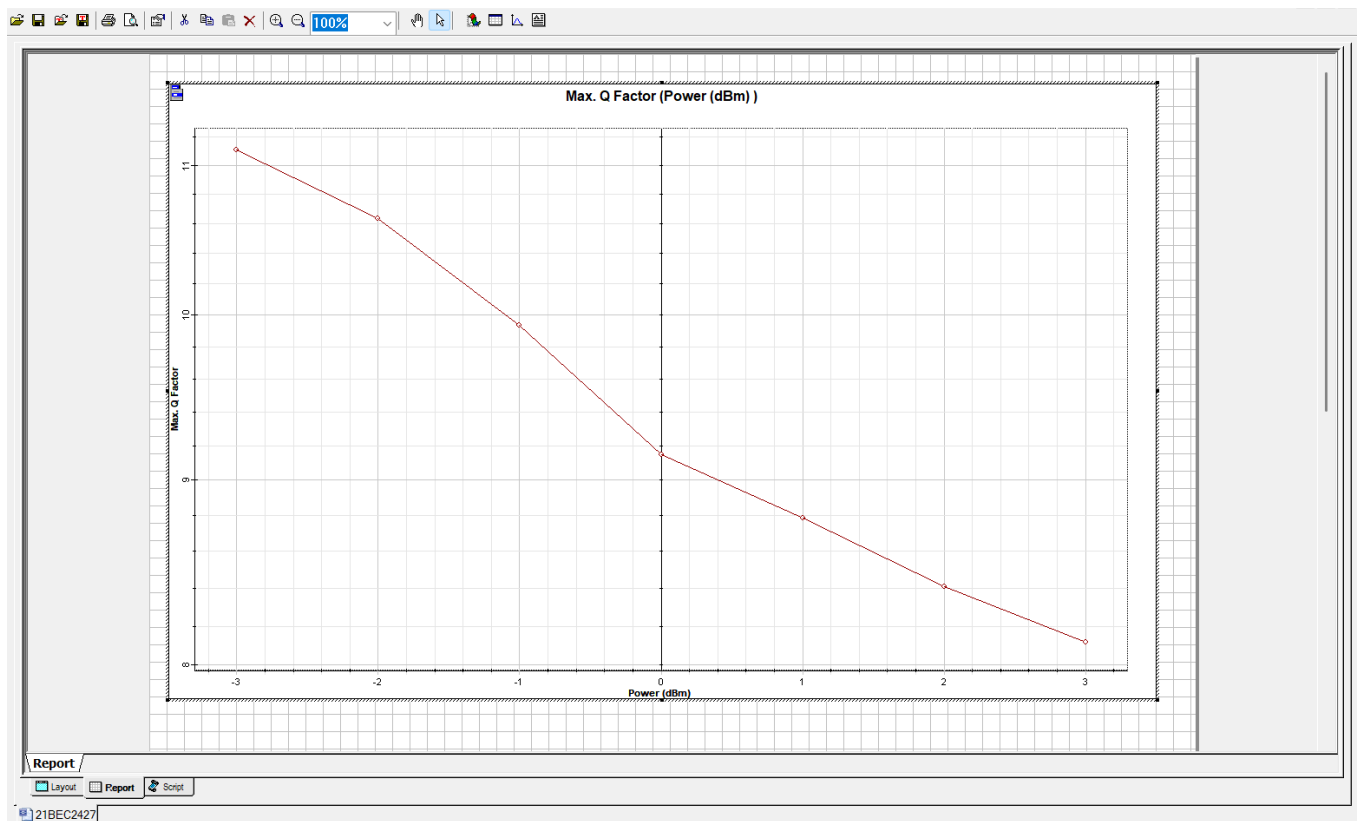
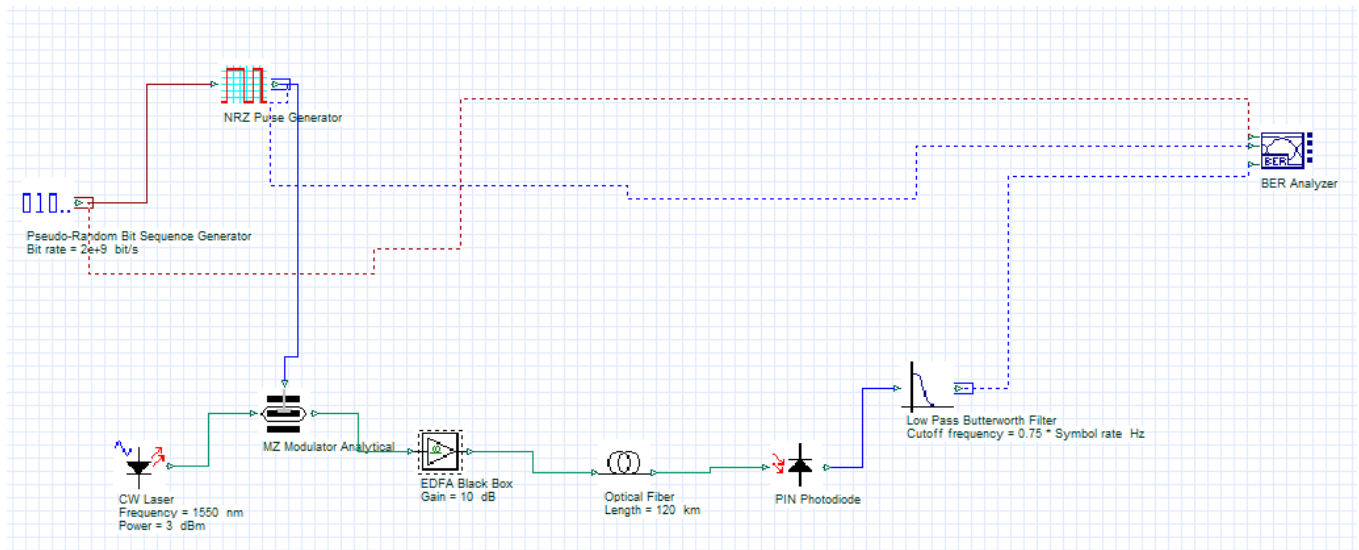
Post amplifier With SOA



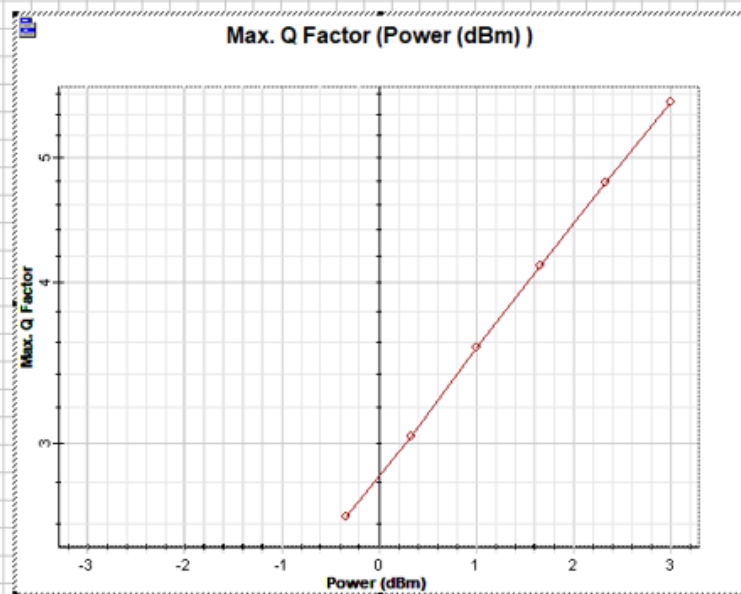
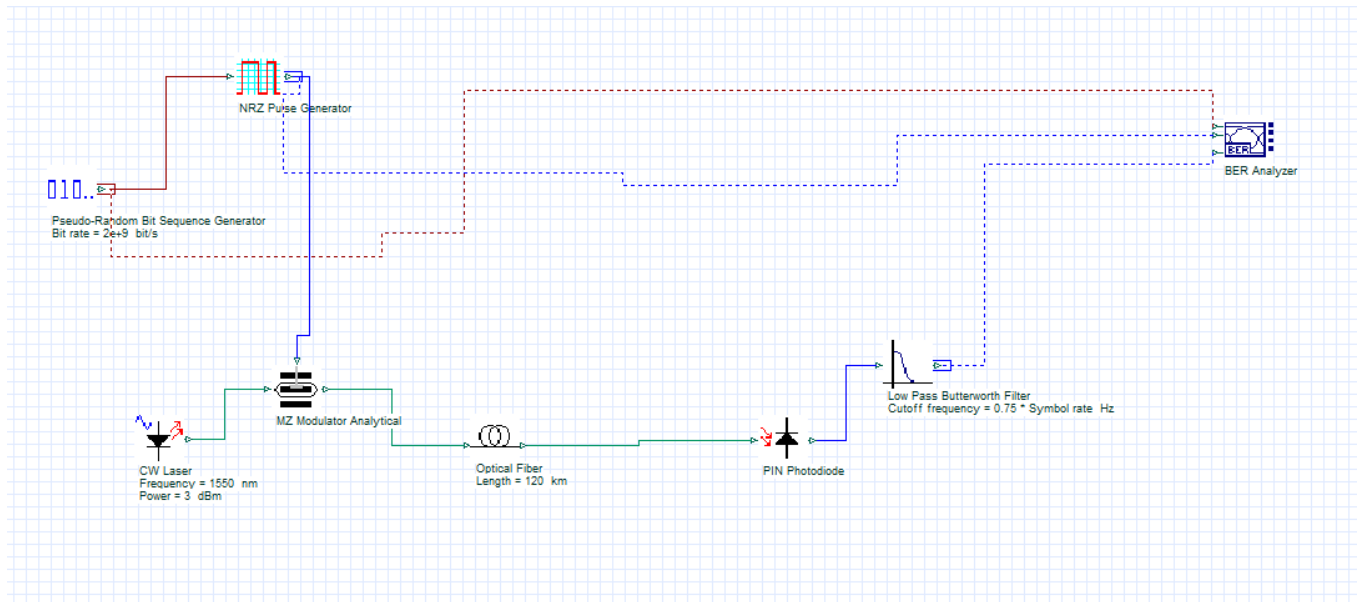
Post amplifier Without SOA



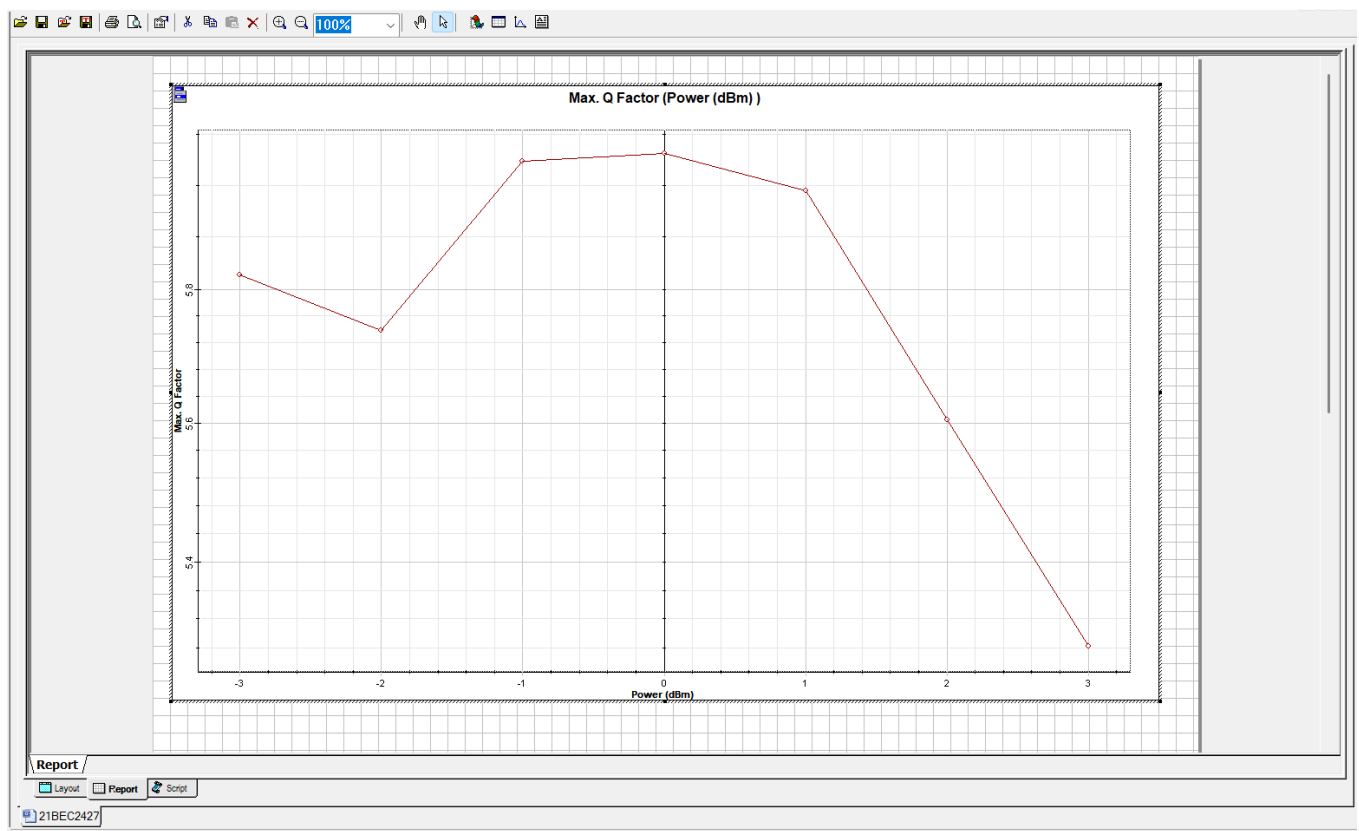
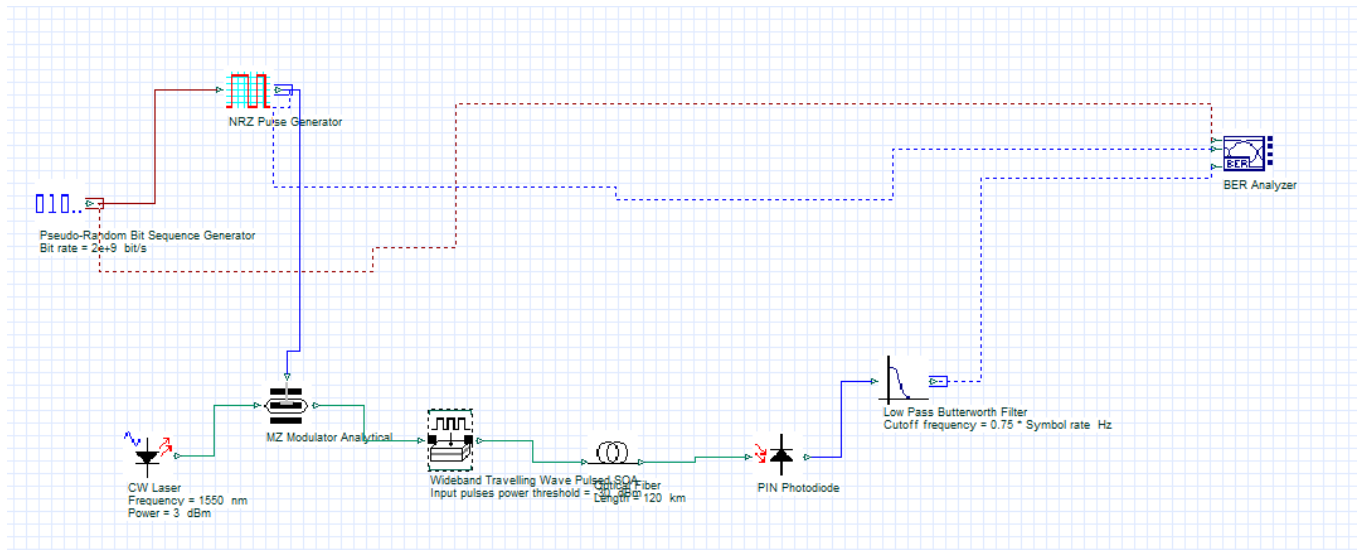
Pre amplifier With EDFA



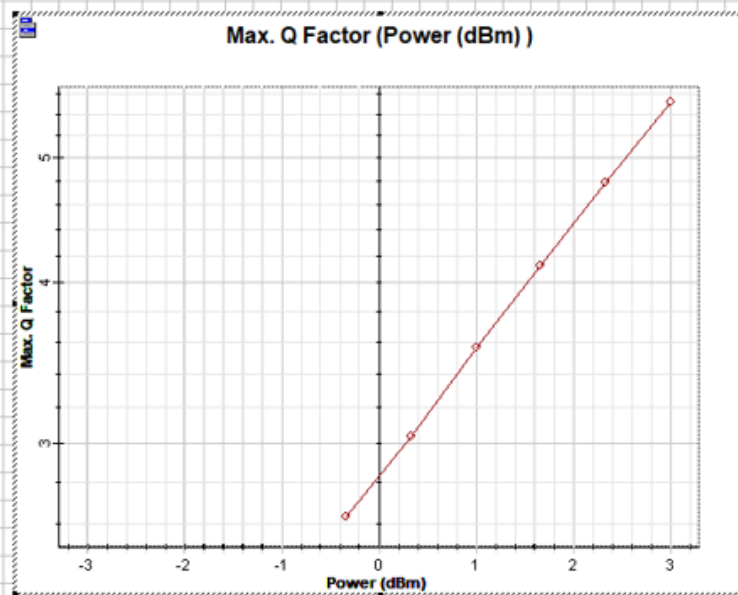
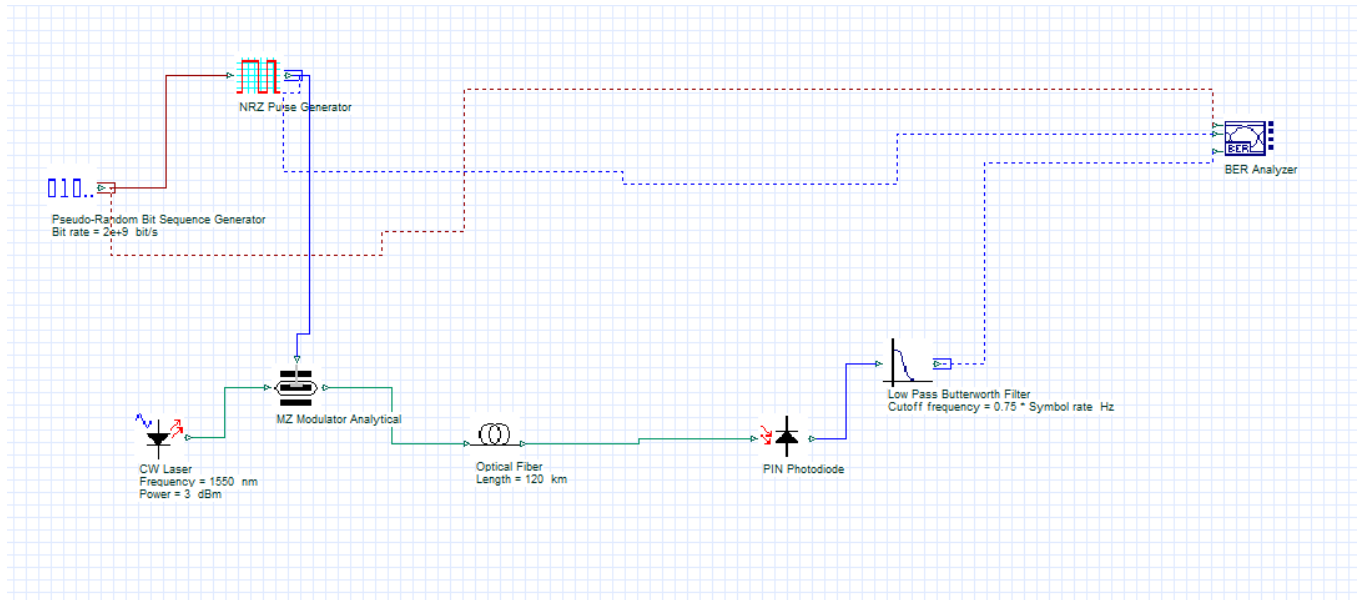
Pre amplifier Without EDFA



Pre amplifier With SOA



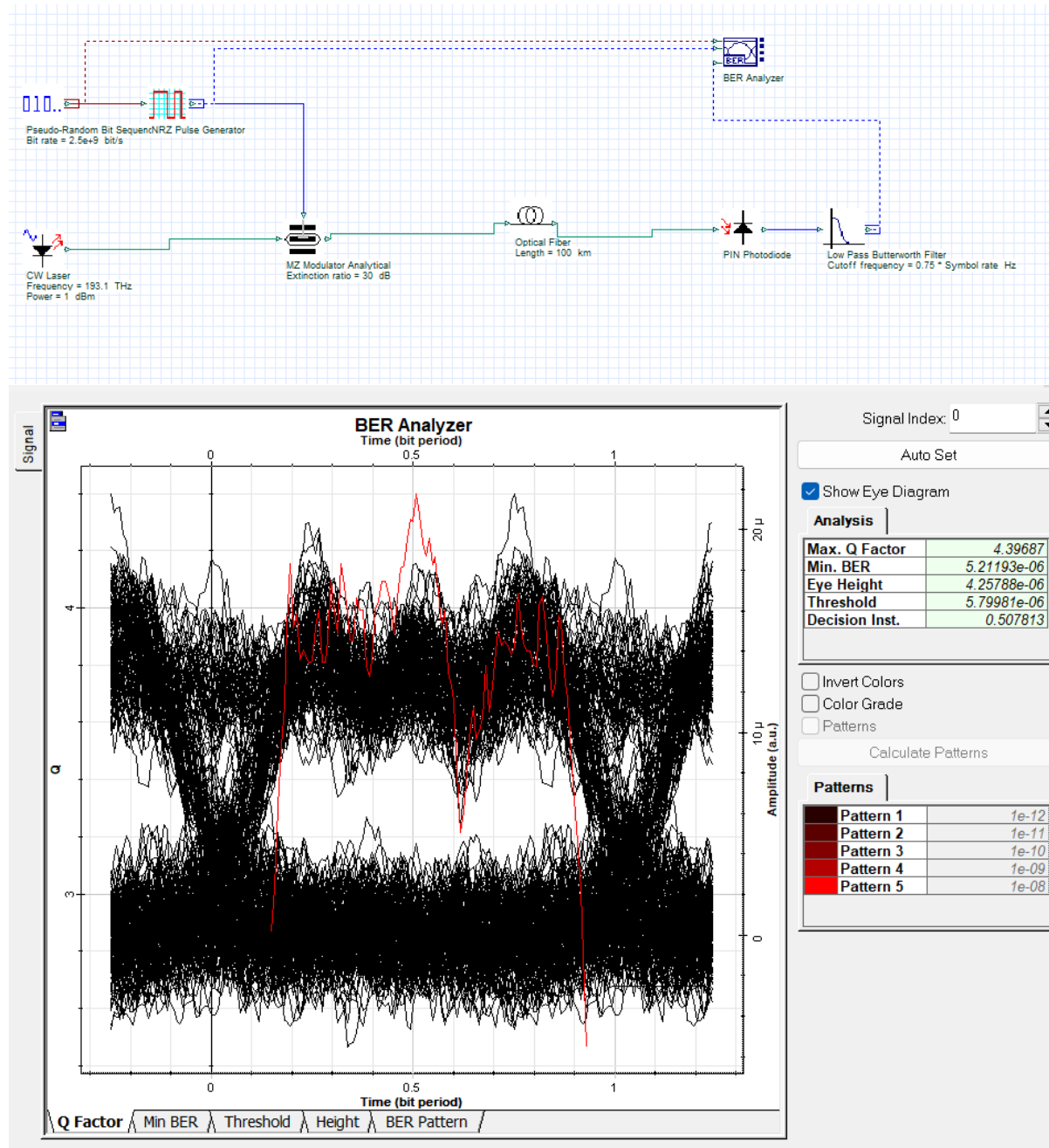
Pre amplifier Without SOA



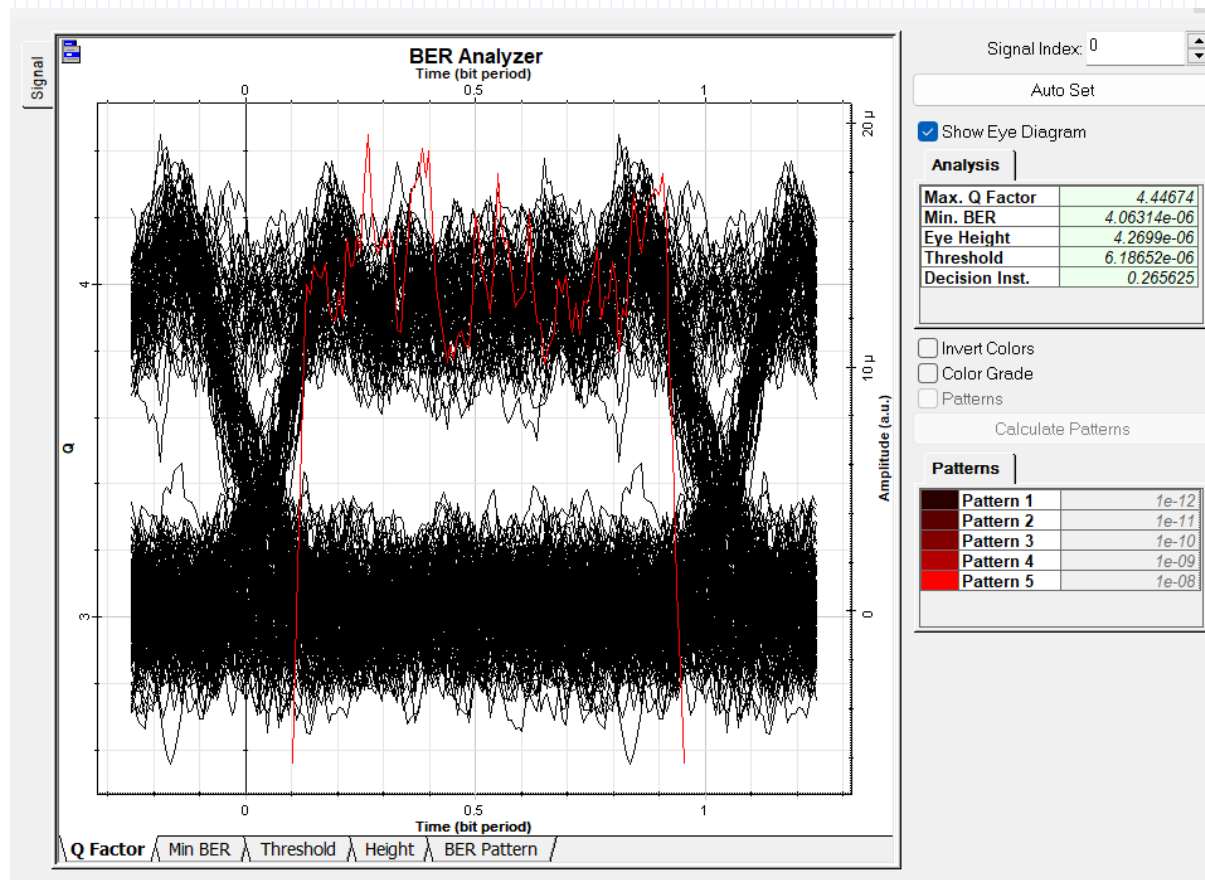
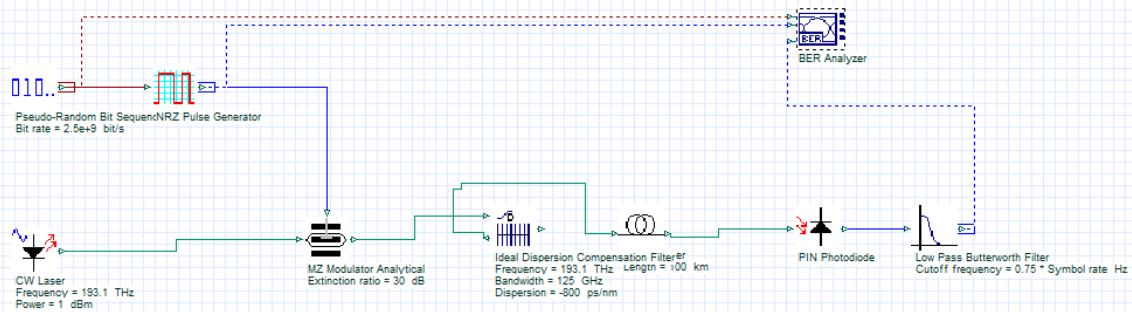
EXPT 6

DISPERSION COMPENSATION FIBER

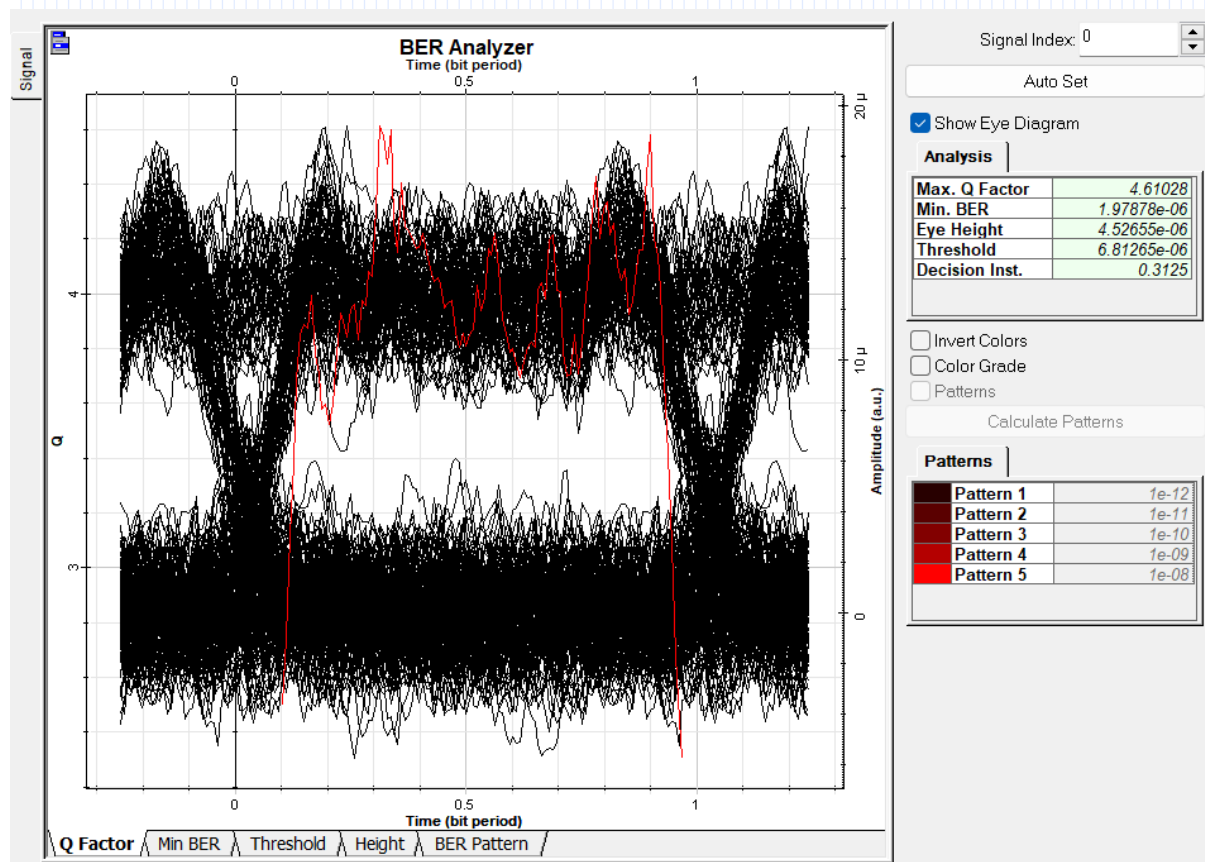
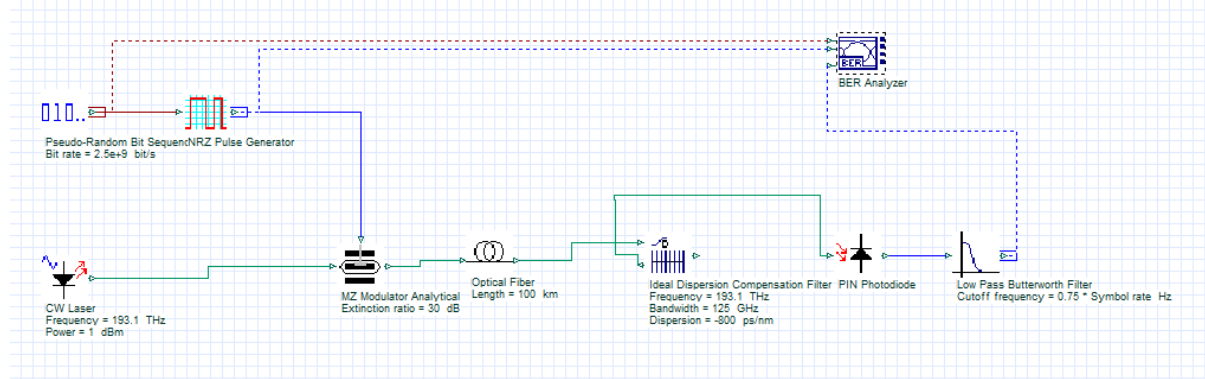
WO DISPERSION:



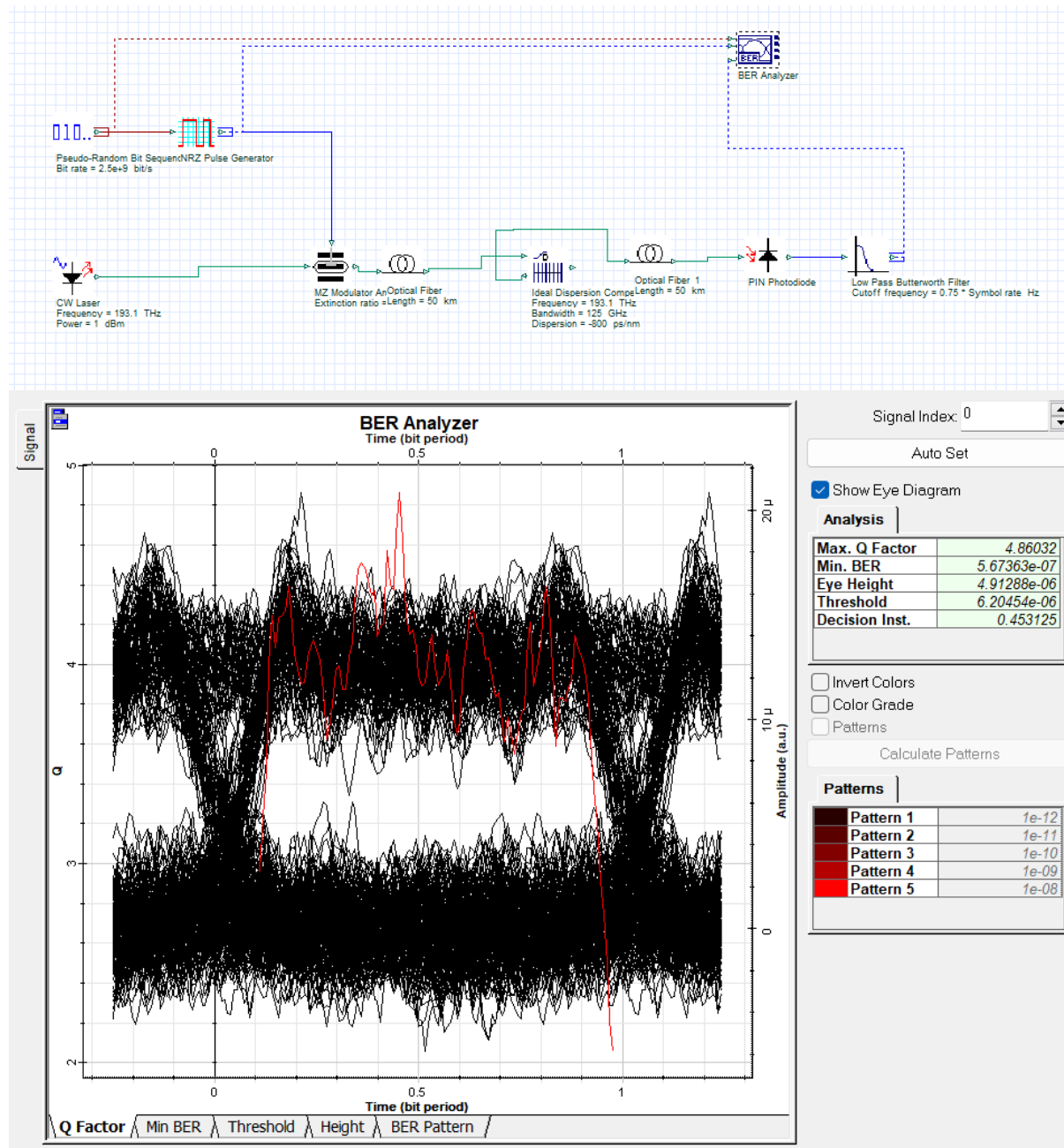
PRE DISPERSION COMP



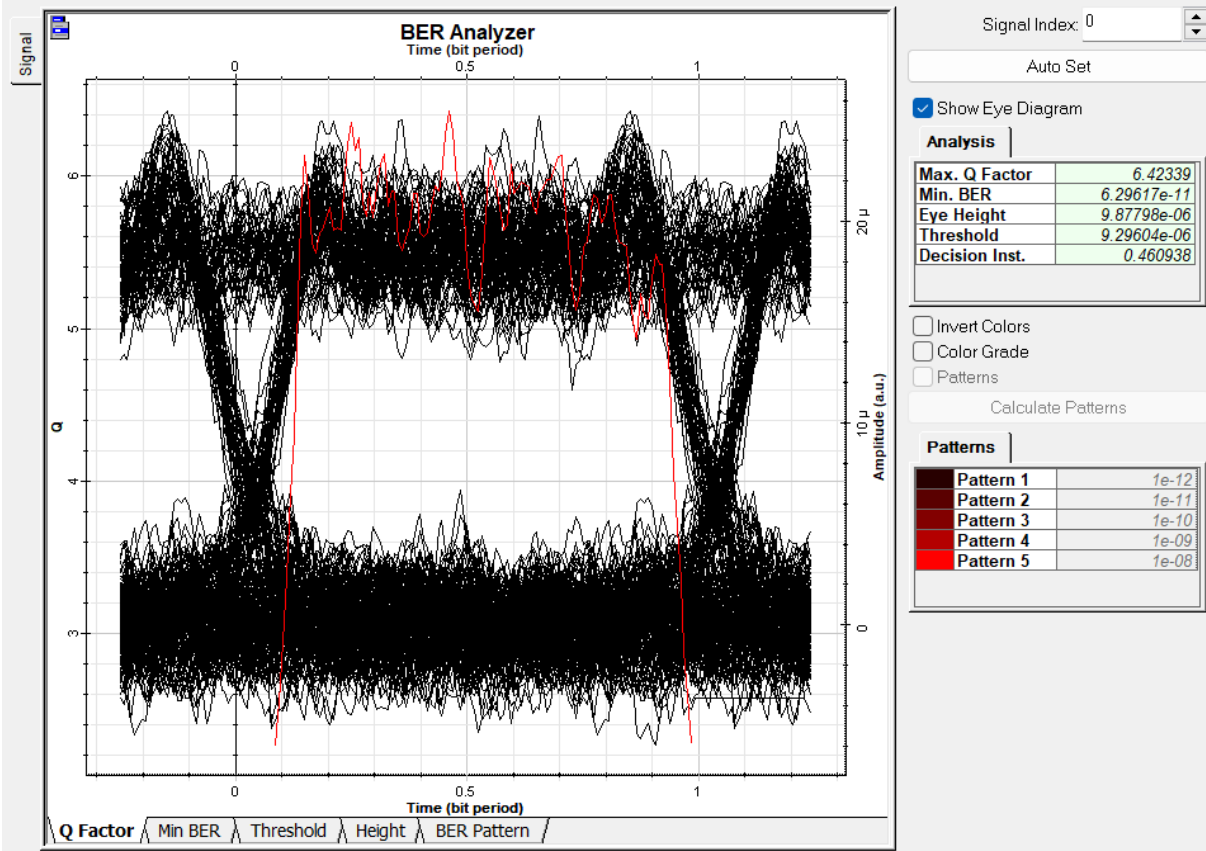
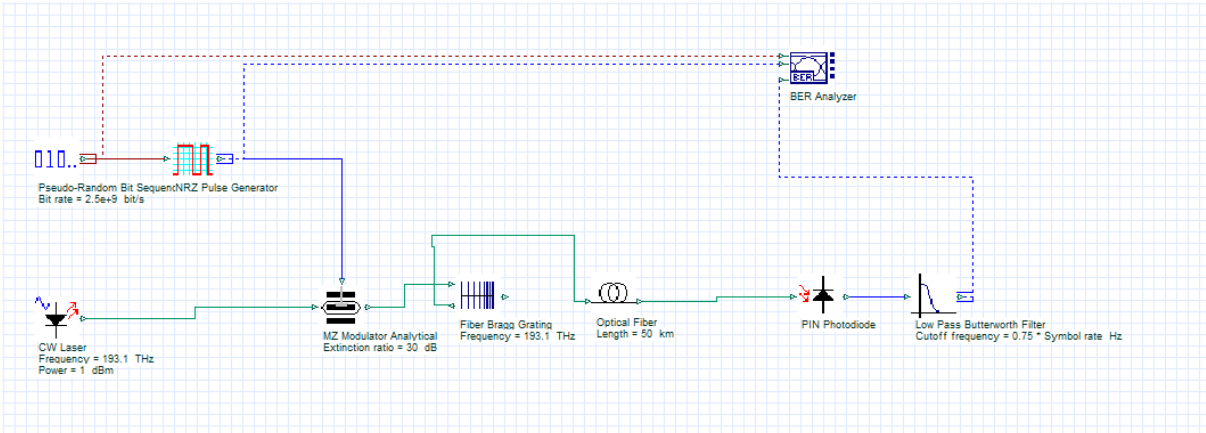
POST COMP



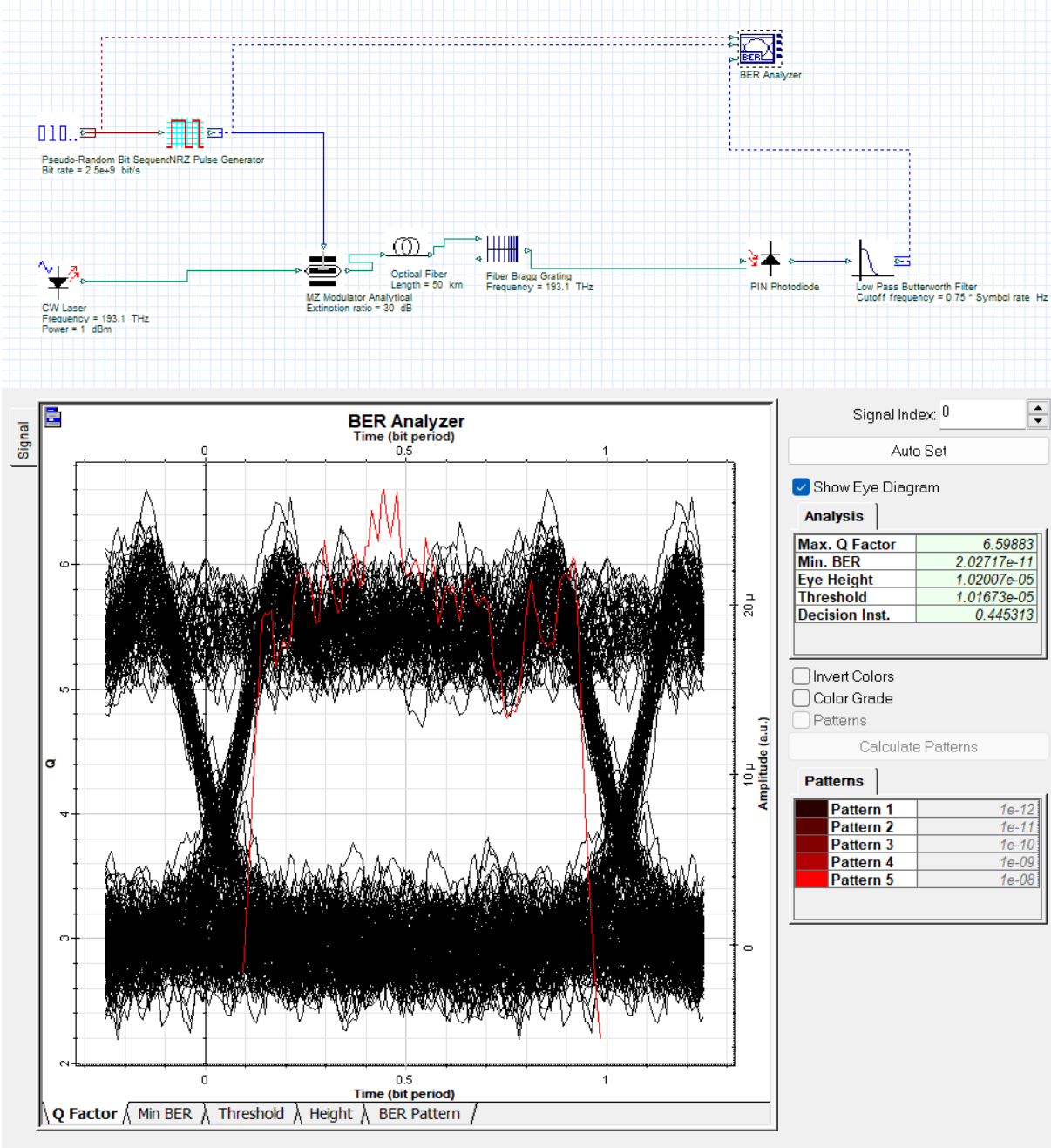
INLINE



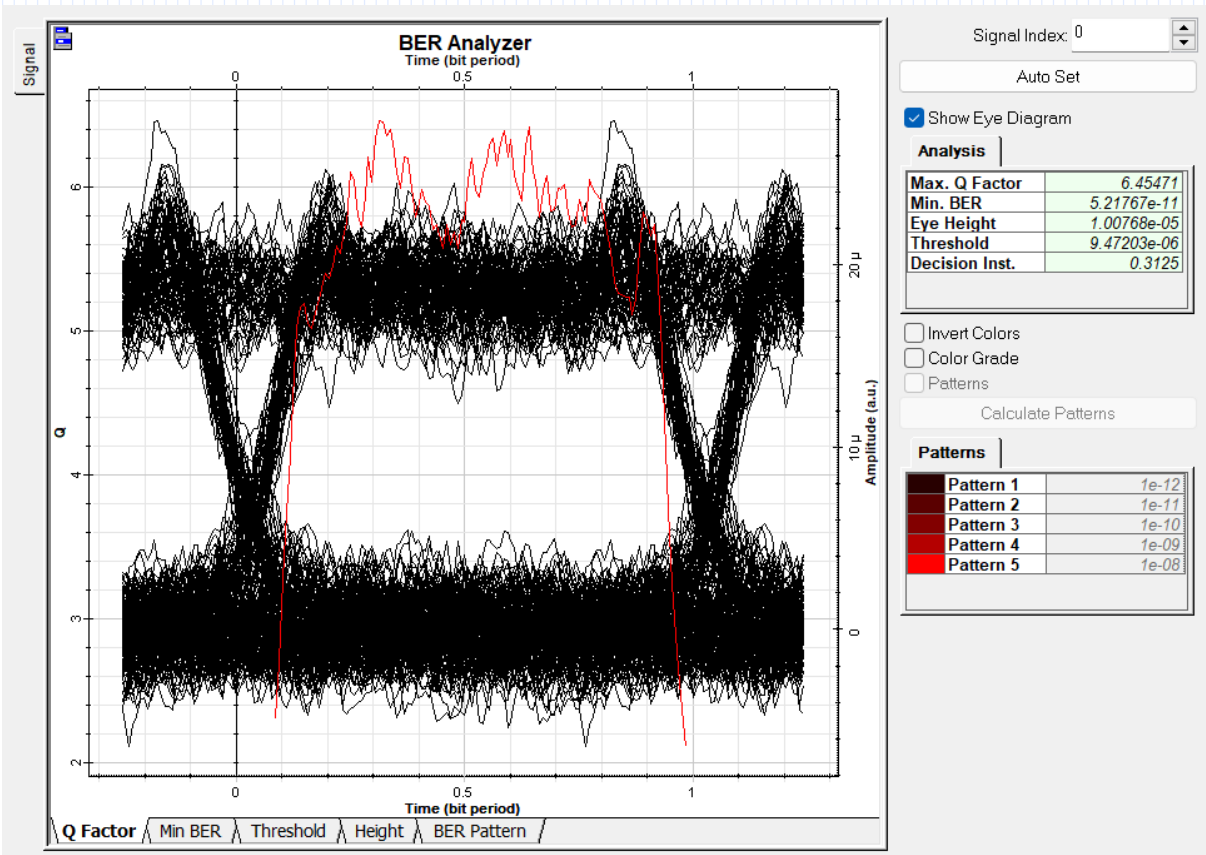
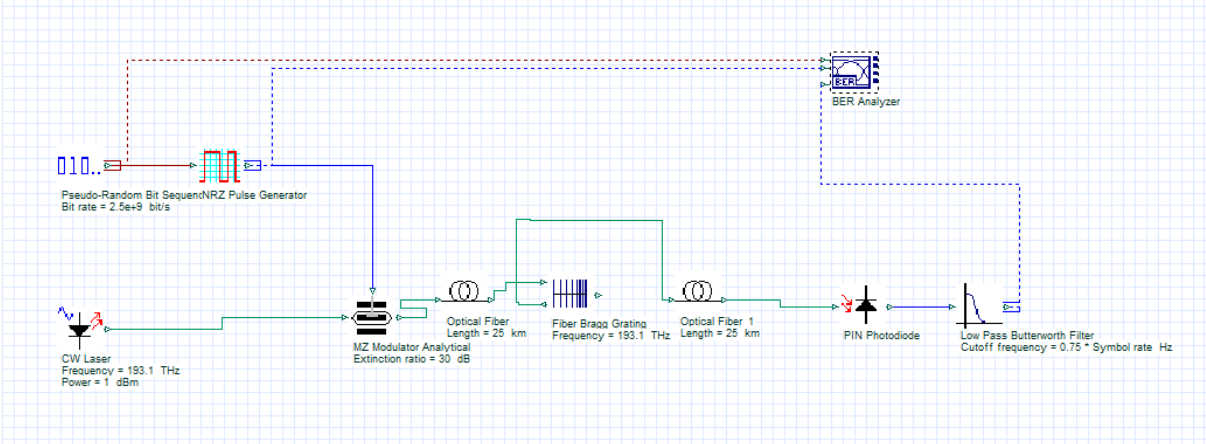
FIBER BRAGG
PRE



POST

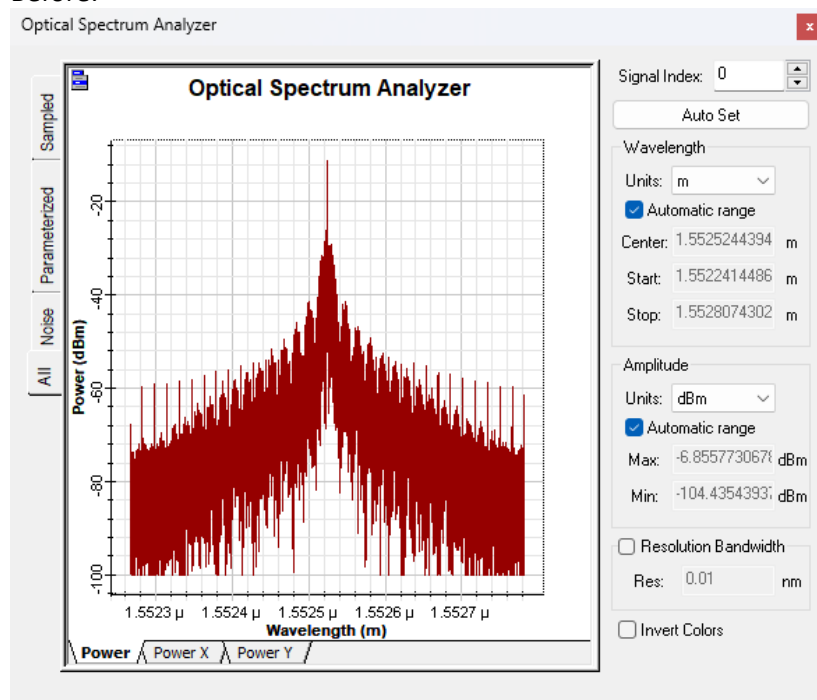


INLINE

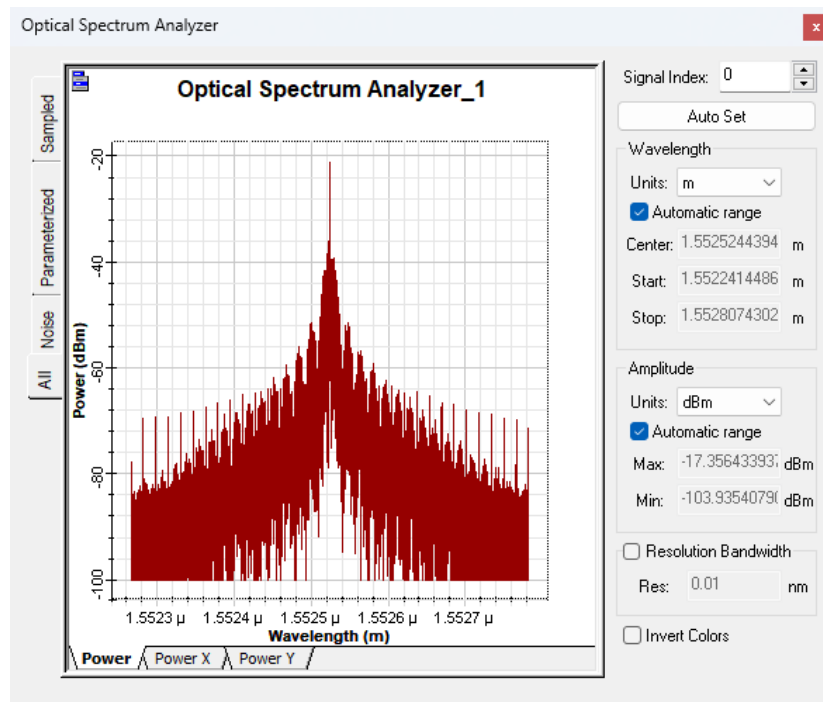


Self- phase modulation:

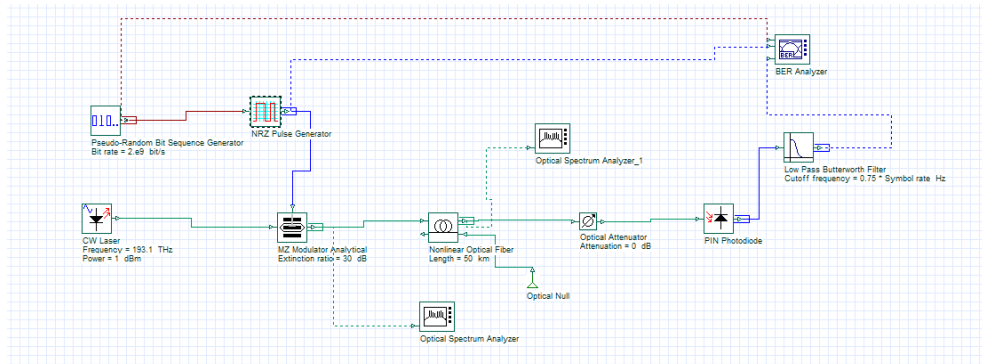
Before:



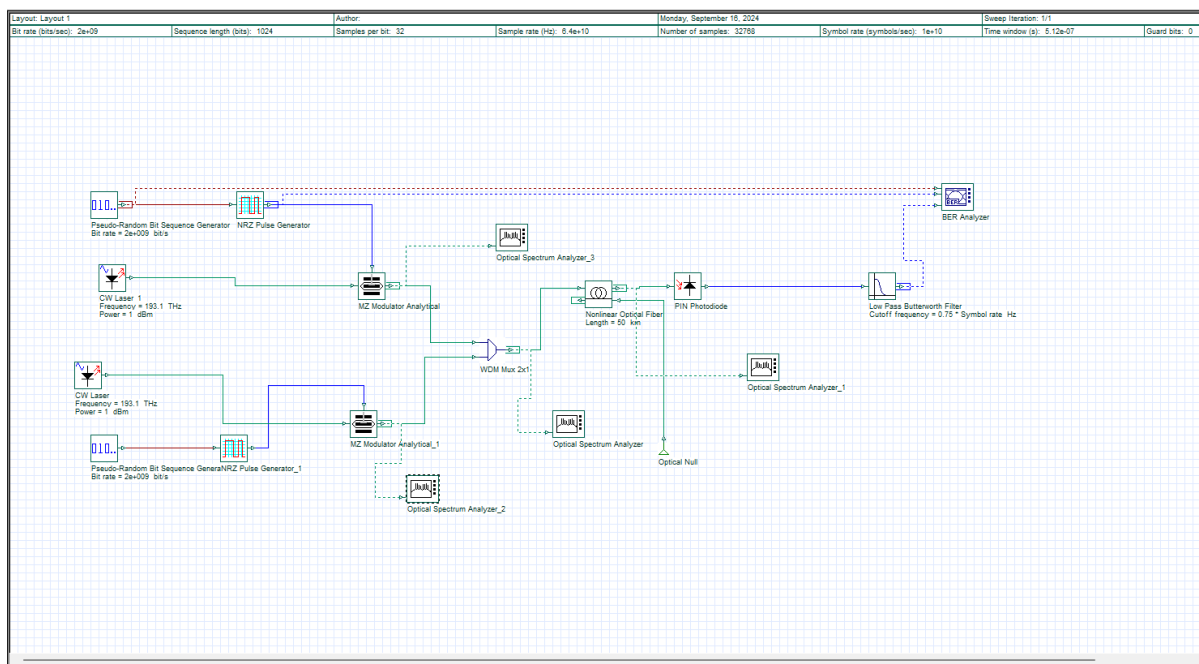
After:



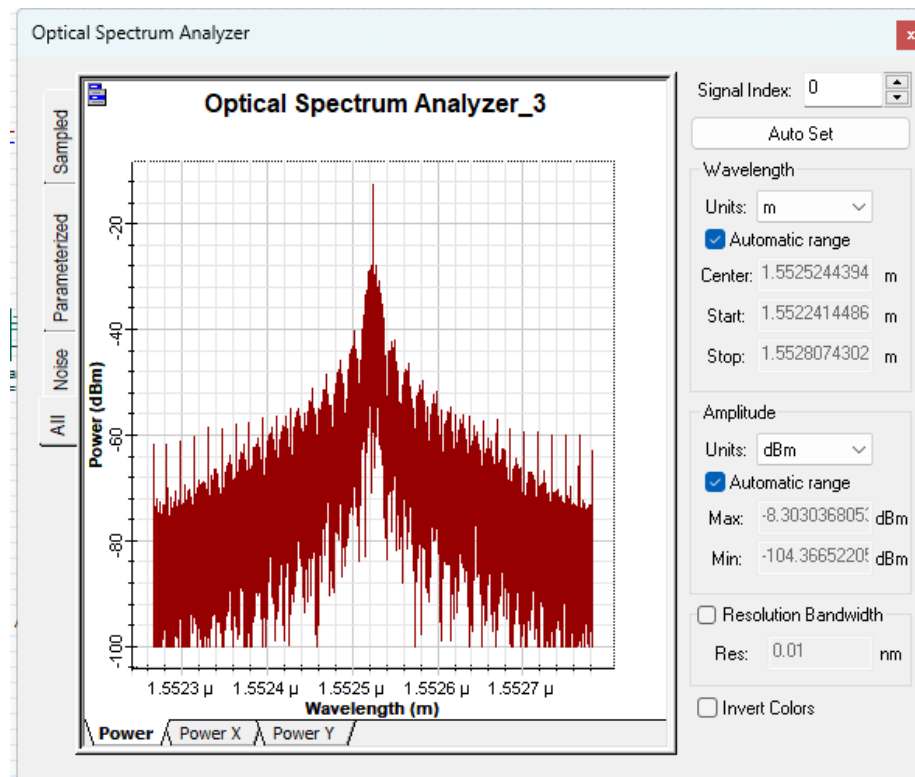
Block diagram:



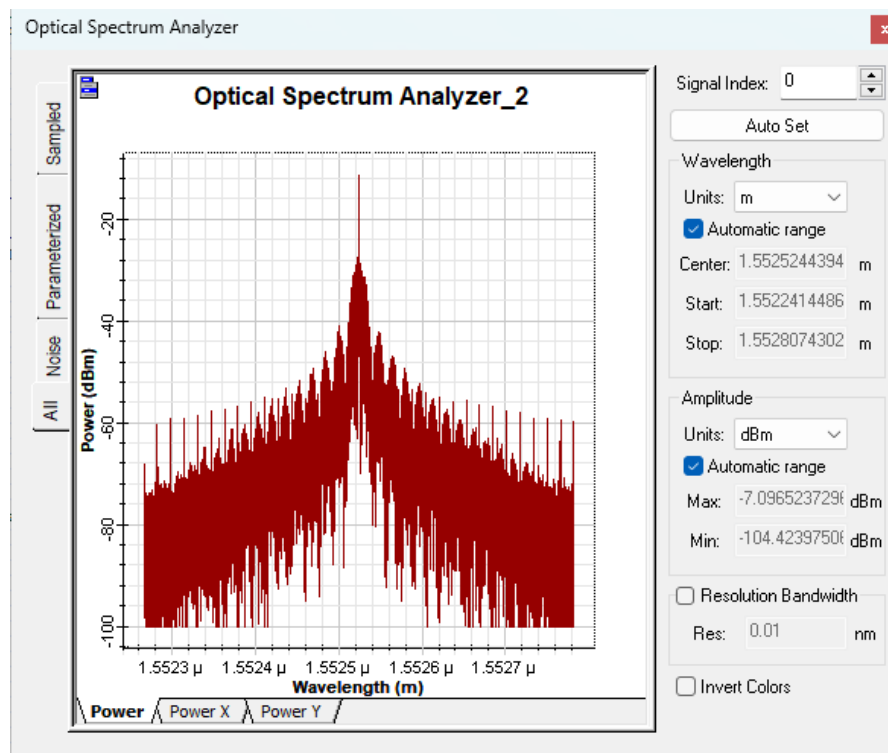
Cross phase modulation:



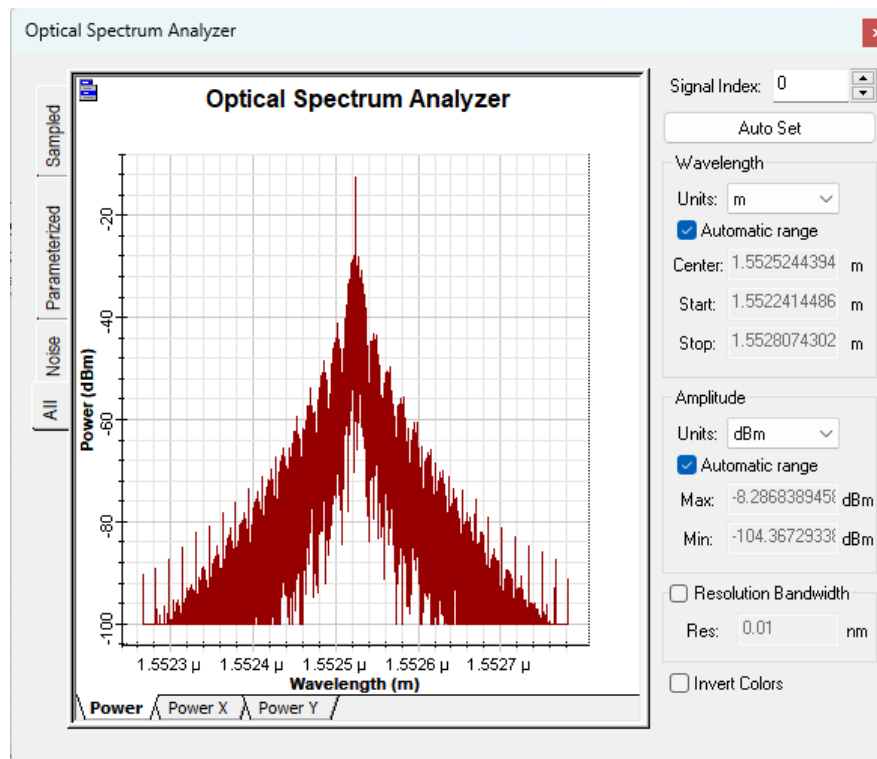
Input 1



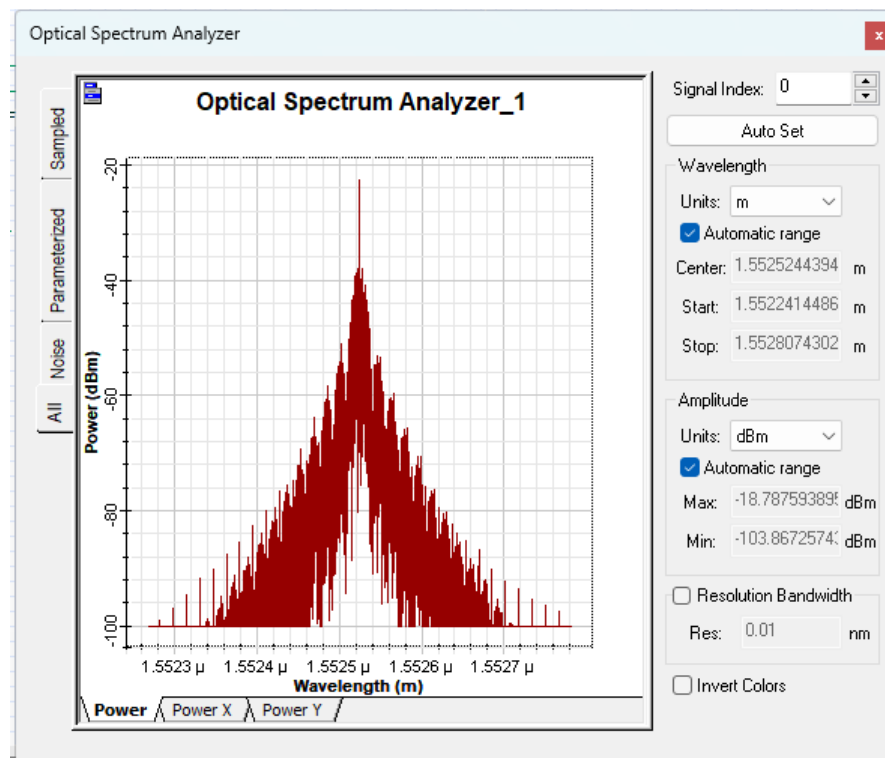
Input 2



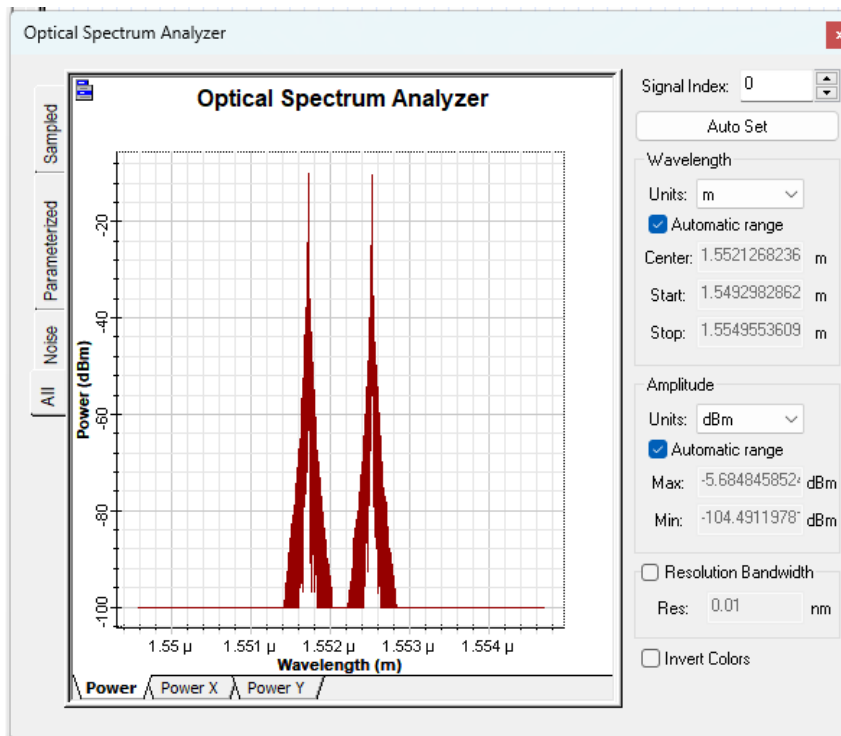
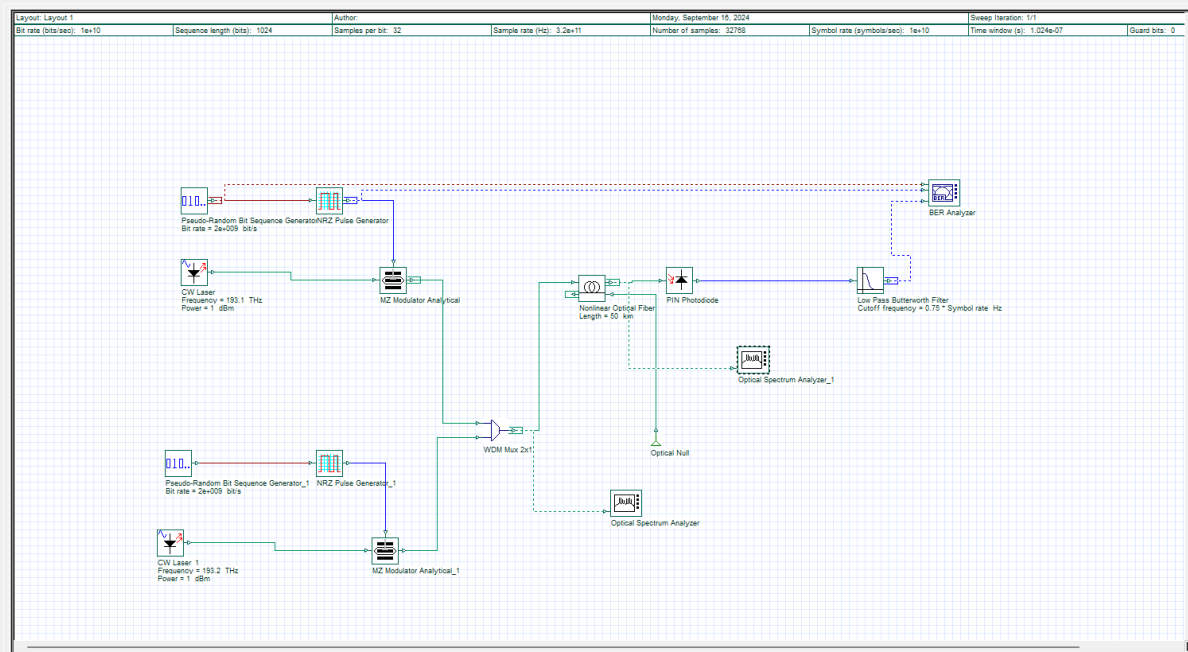
Output at MUX:

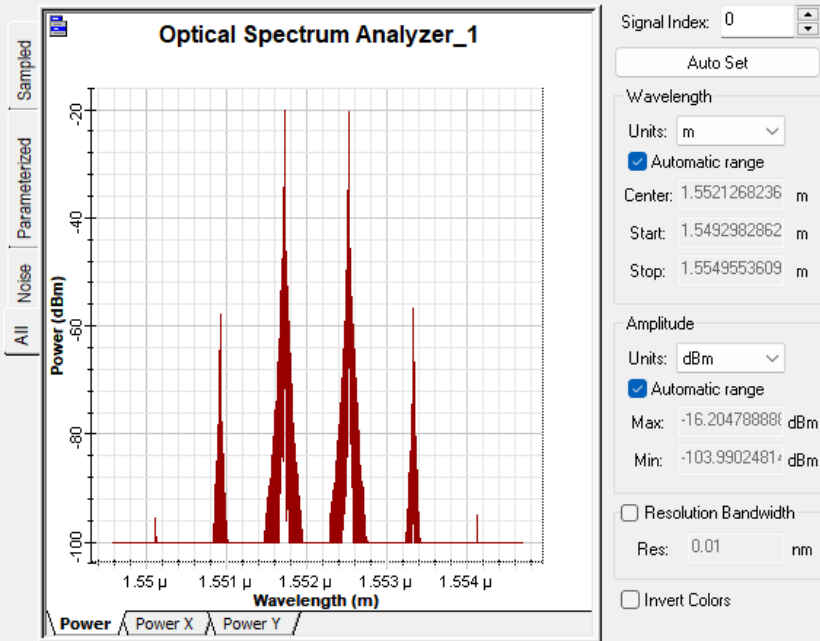


Output at non linear optical fiber:



Four wave mixing:





Block Diagram

