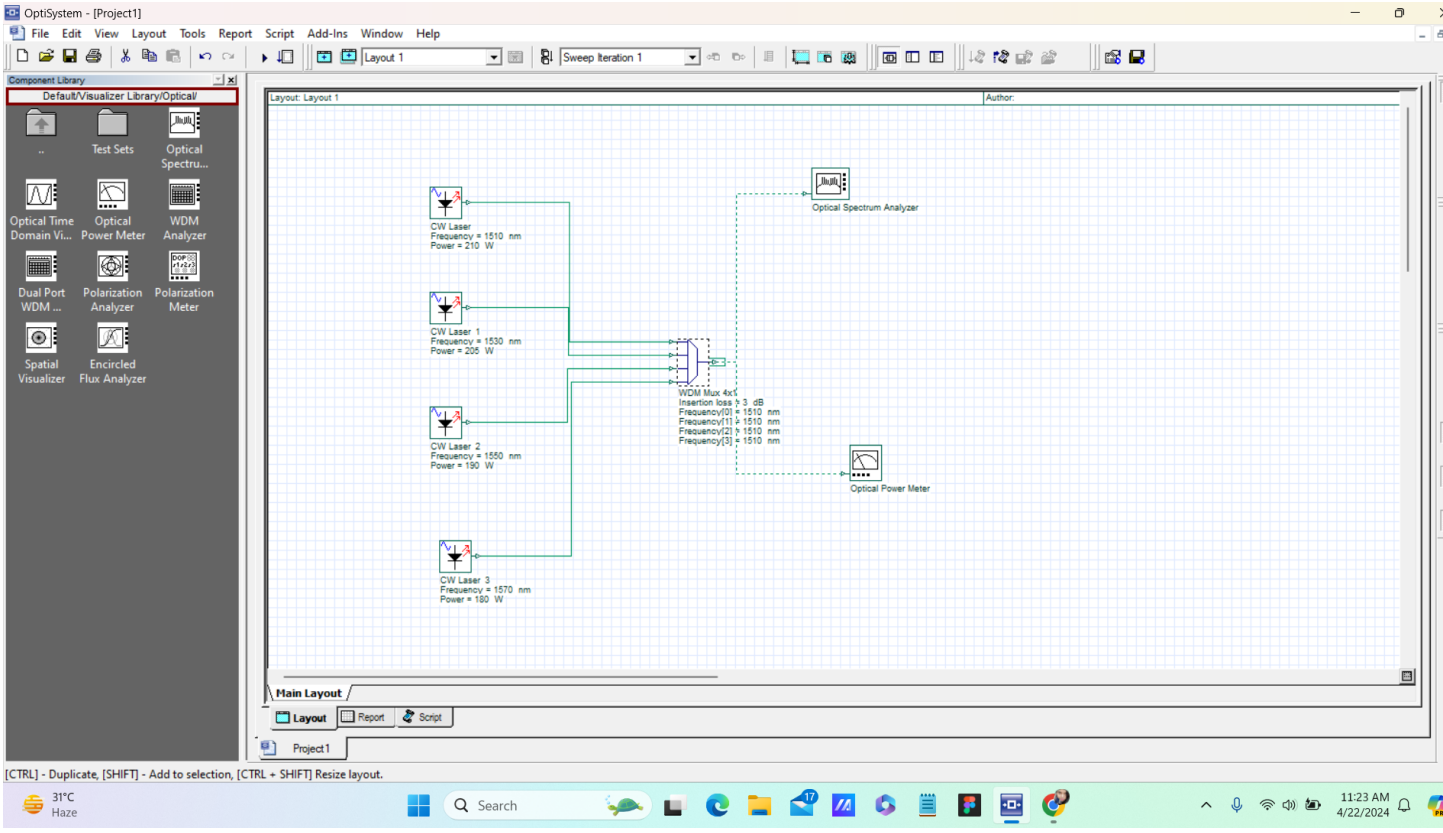
NAME:LABANYA SAHA

REG NO:21201059

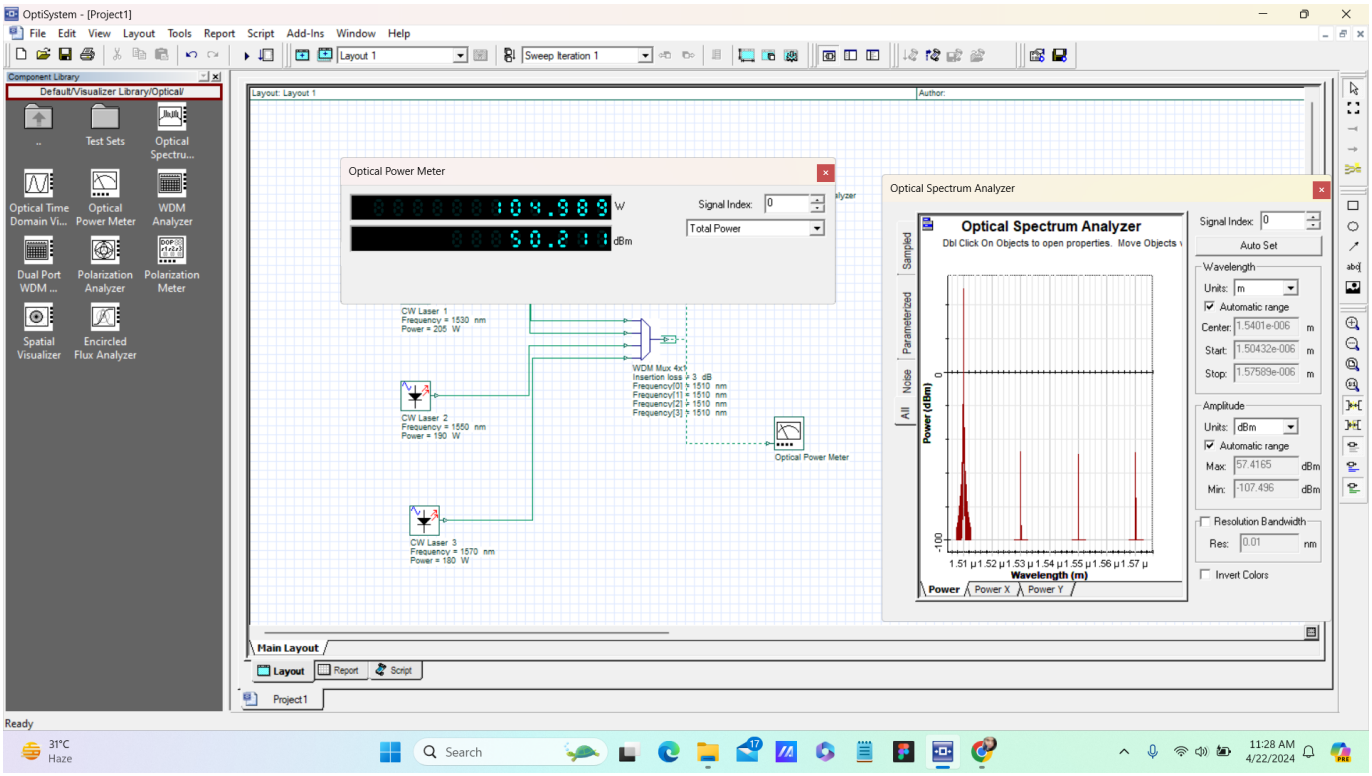
R0LL:59

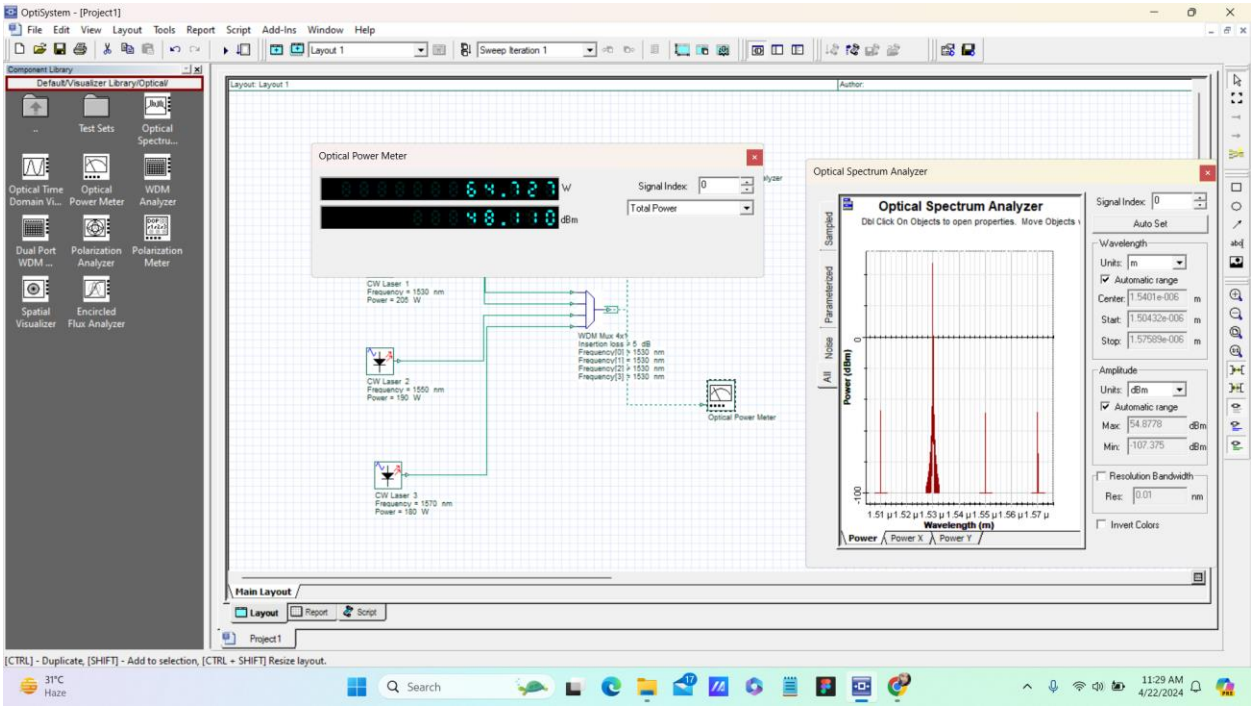
SET:B

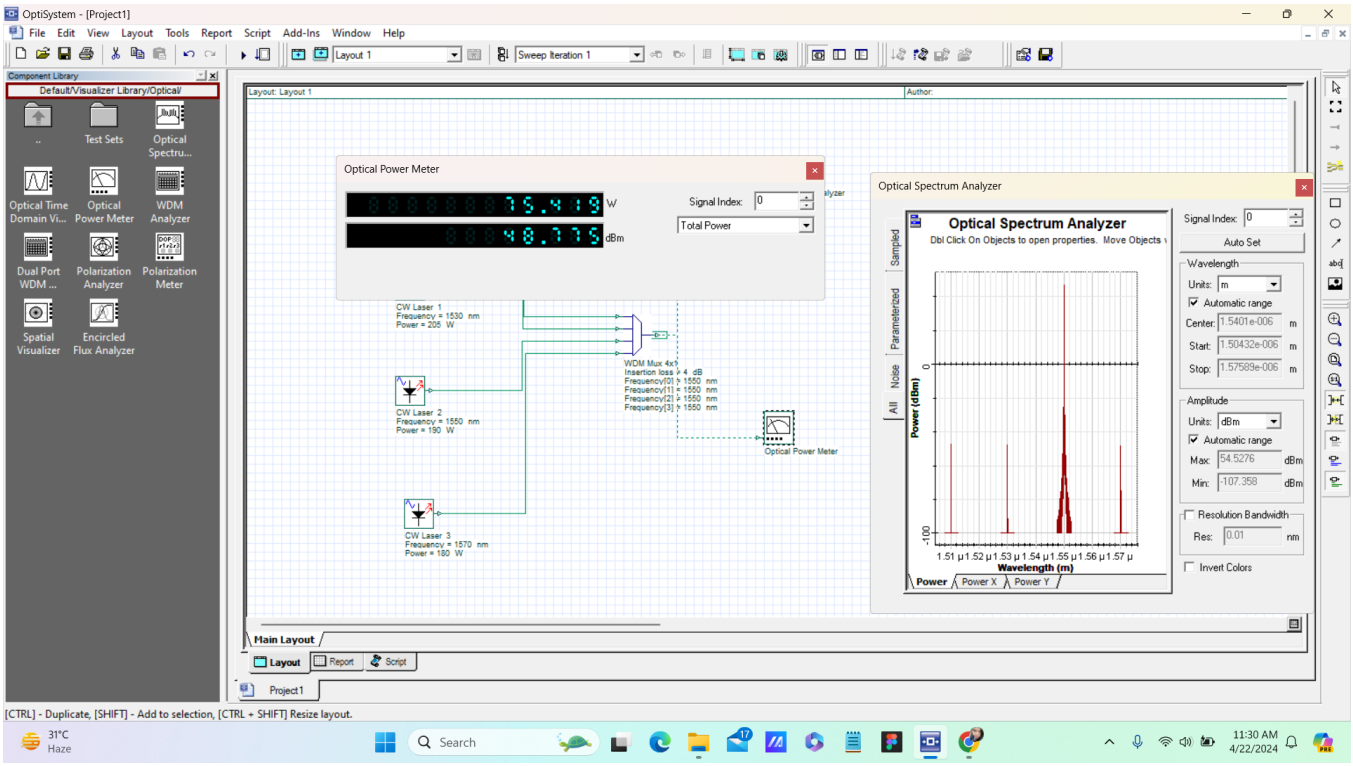
WDM MUX

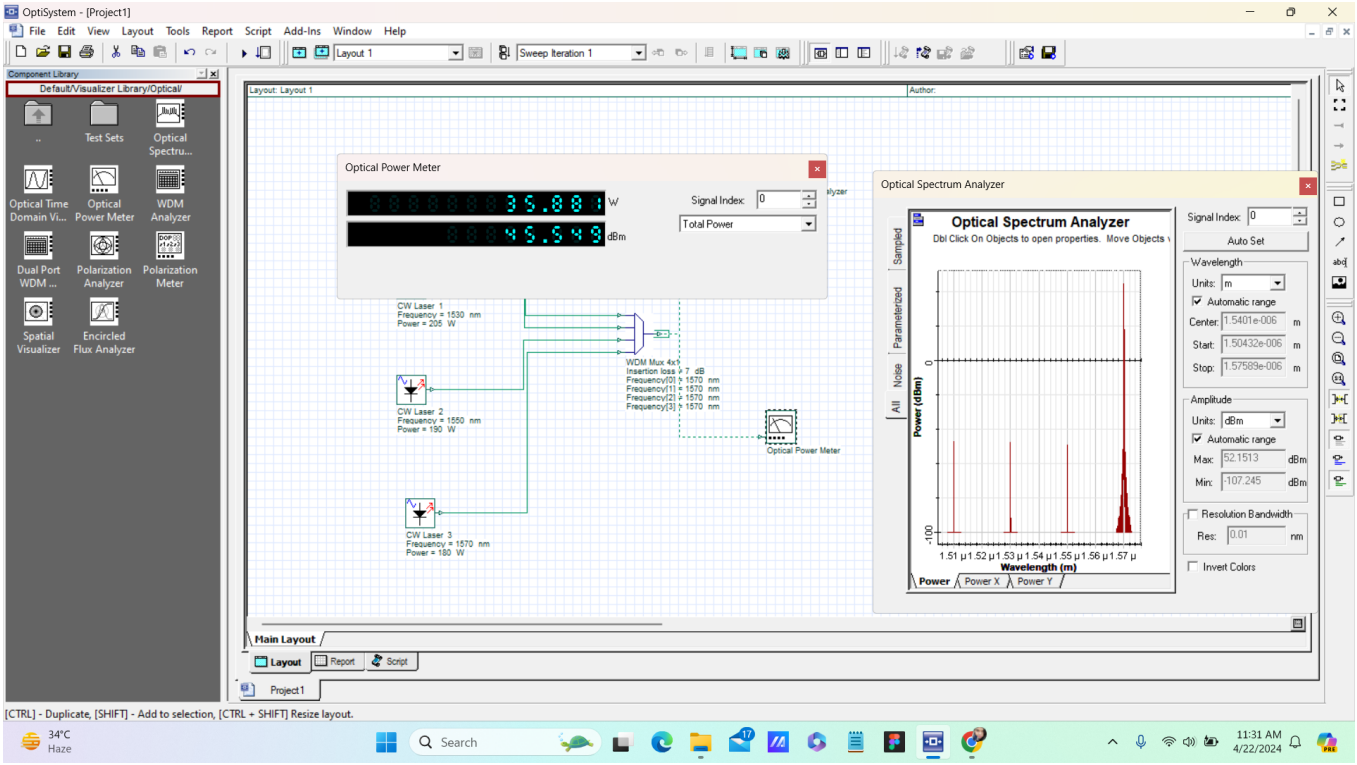


SIMULATION RESULT WDM MUX

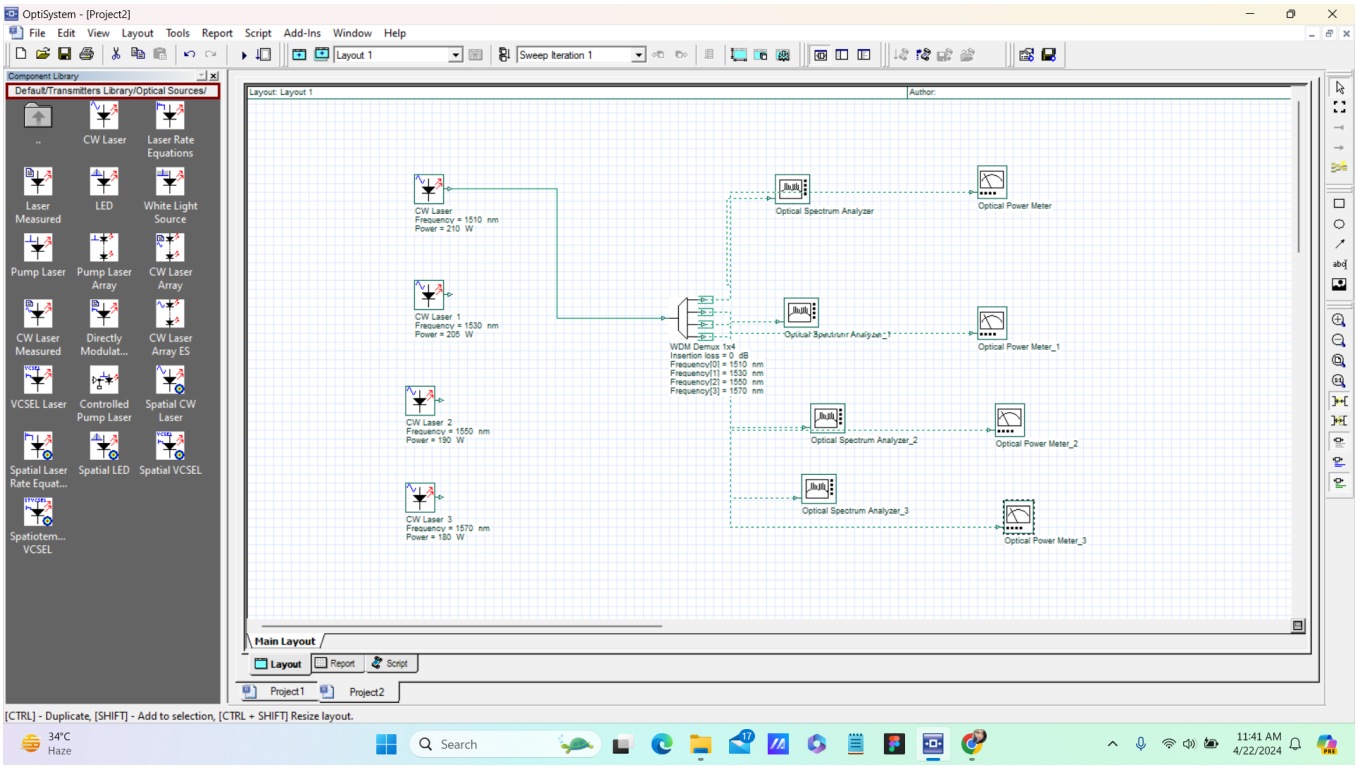


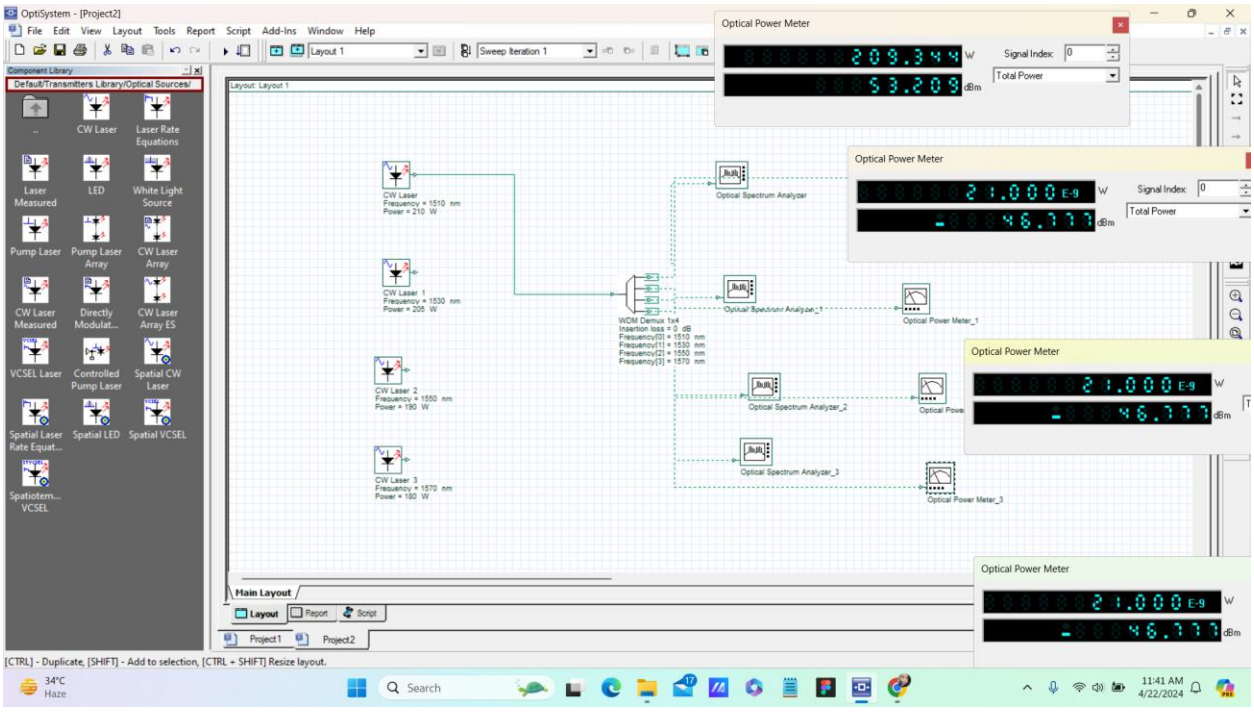


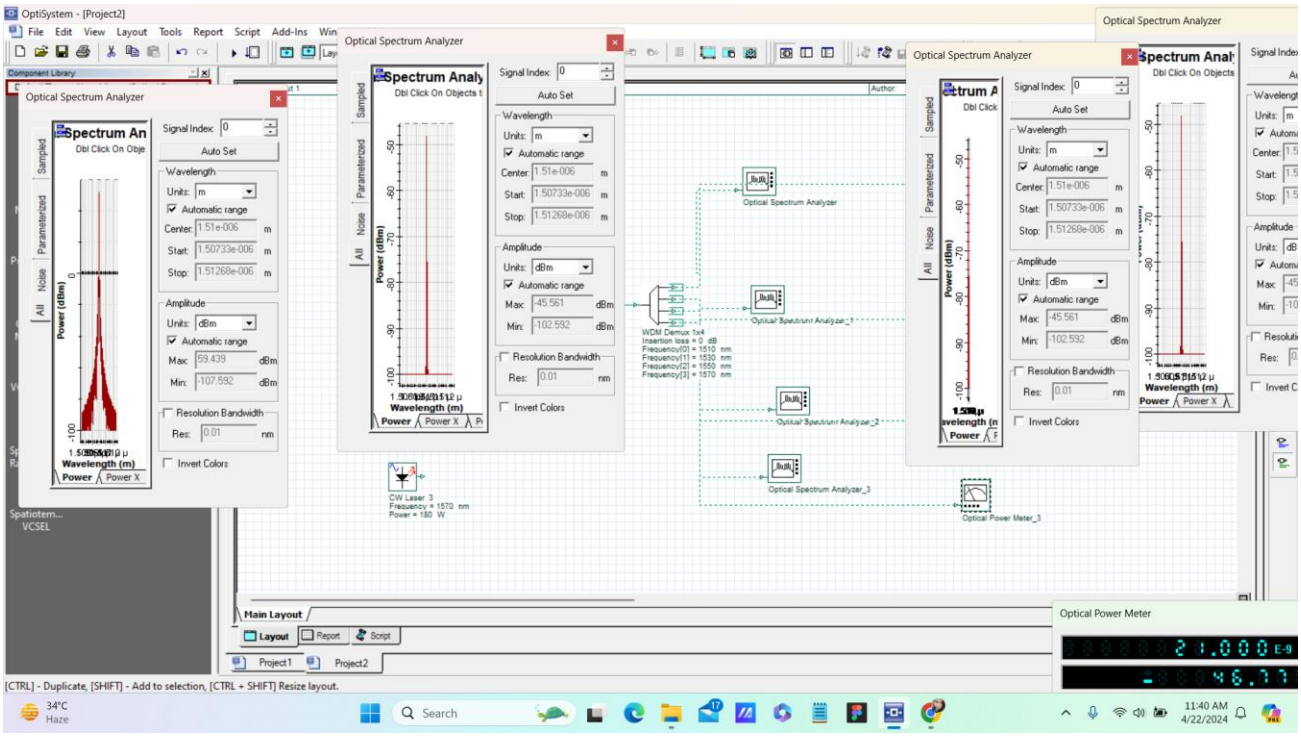

OptiSystem - [Project1]
File Edit View Layout Tools Report Script Add-Ins Window Help
Optical Power Meter
Optical Spectrum Analyzer
Optical Spectrum Analyzer
Dbl Click On Objects to open properties. Move Objects
Signal Index:
Auto Set
Wavelength
Amplitude
Resolution Bandwidth
Invert Colors
Power (dBm)
Wavelength (m)
Main Layout
Layout
Report
Script
Project1
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
31°C
Haze
Search
11:30 AM
4/22/2024

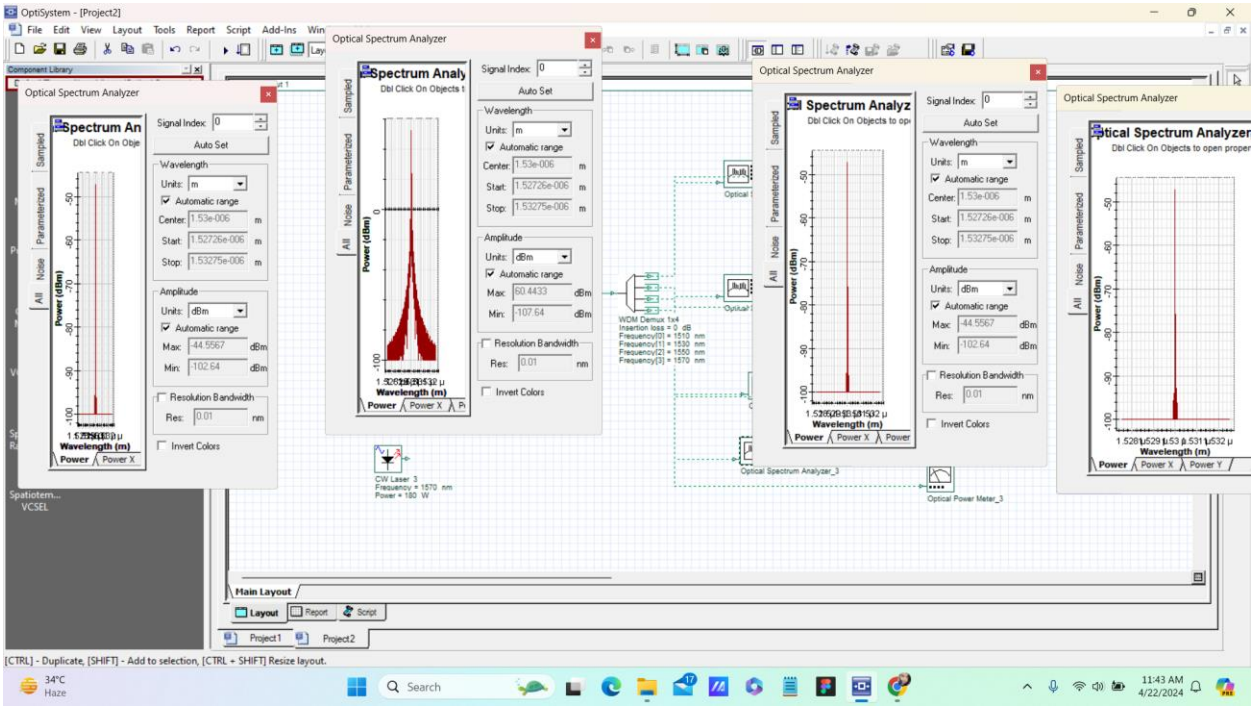

OptiSystem - [Project1]
File Edit View Layout Tools Report Script Add-Ins Window Help
Optical Power Meter
Optical Spectrum Analyzer
Optical Spectrum Analyzer
Dbl Click On Objects to open properties. Move Objects
Signal Index:
Auto Set
Wavelength
Amplitude
Resolution Bandwidth
Invert Colors
Power (dBm)
Wavelength (m)
Main Layout
Layout
Report
Script
Project1
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:31 AM
4/22/2024

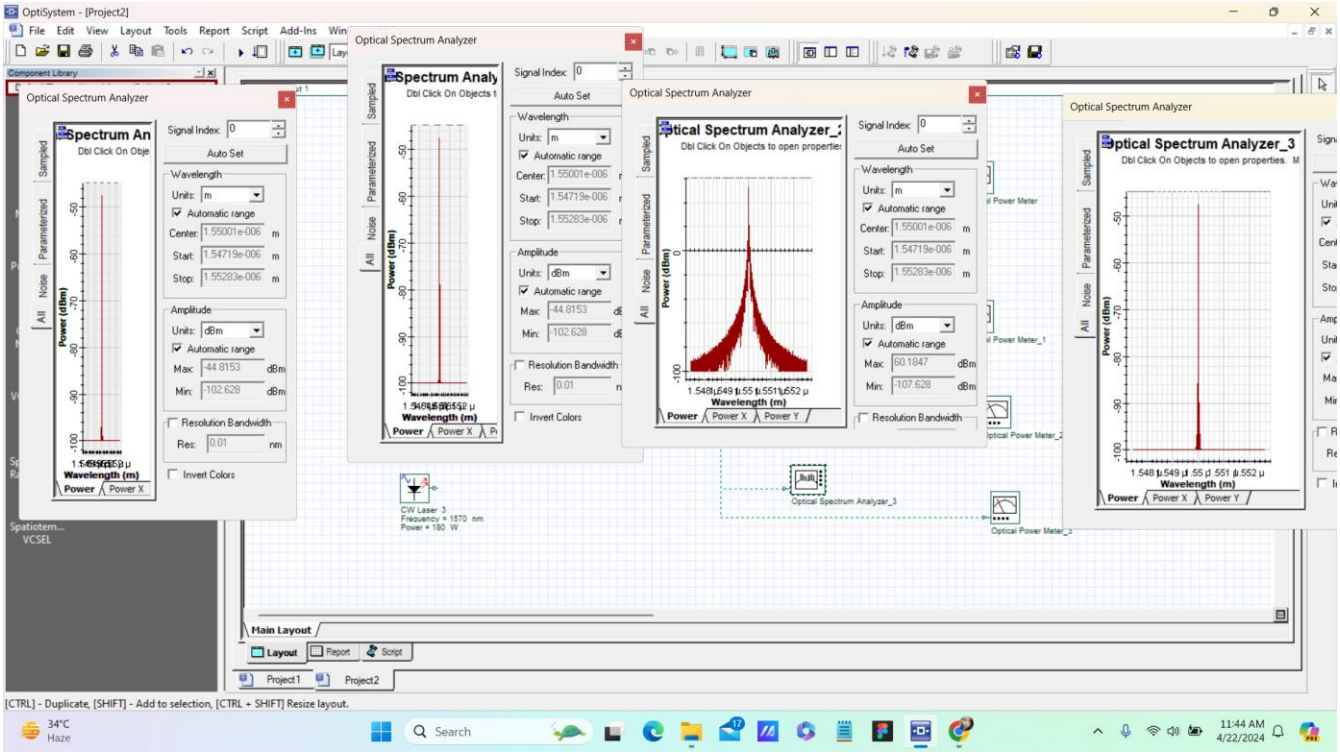
WDM DEMUX

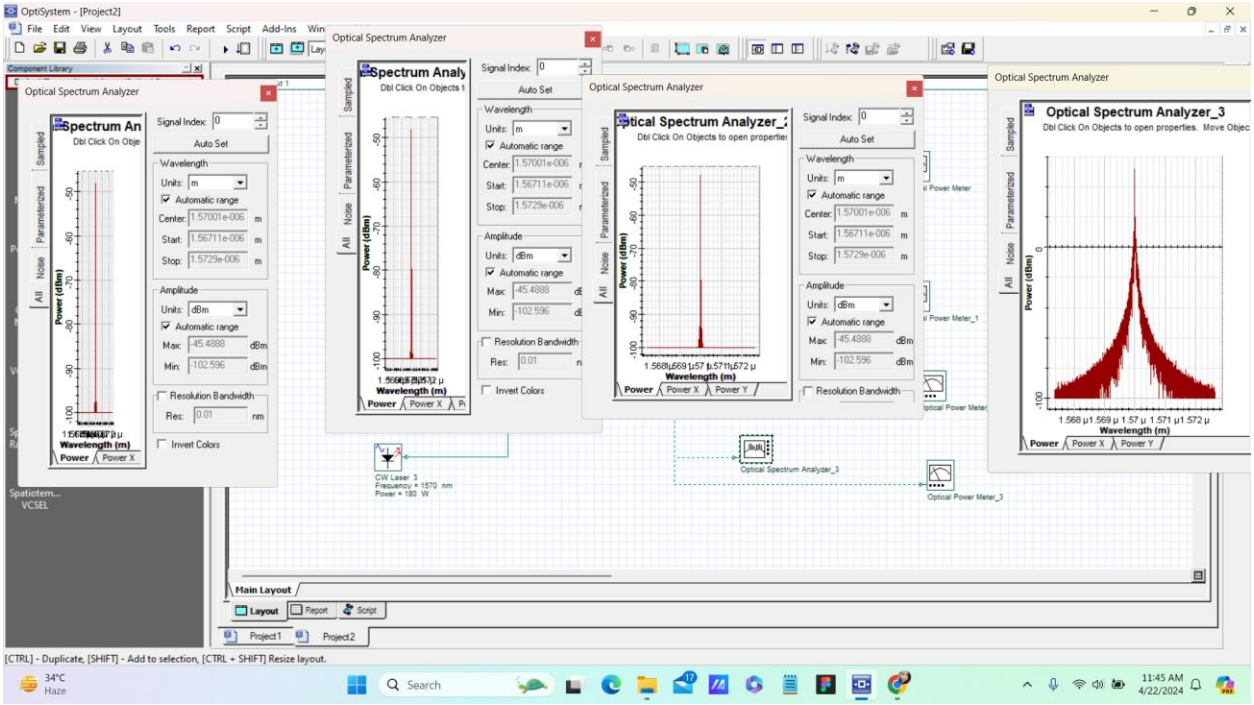

OptiSystem - [Project2]
File Edit View Layout Tools Report Script Add-Ins Window Help
Component Library
Default/Transmitters Library/Optical Sources/
CW Laser
Laser Rate Equations
Laser Measured
LED
White Light Source
Pump Laser
Pump Laser Array
CW Laser Array
CW Laser Measured
Directly Modulat...
CW Laser Array ES
VCSEL Laser
Controlled Pump Laser
Spatial CW Laser
Spatial Laser Rate Equat...
Spatial LED
Spatial VCSEL
Spatiotem... VCSEL
Layout: Layout 1
Author:
CW Laser
Frequency = 1510 nm
Power = 210 W
CW Laser 1
Frequency = 1530 nm
Power = 205 W
CW Laser 2
Frequency = 1550 nm
Power = 190 W
CW Laser 3
Frequency = 1570 nm
Power = 180 W
WDM Demux 1x4
Insertion loss = 0 dB
Frequency[0] = 1510 nm
Frequency[1] = 1530 nm
Frequency[2] = 1550 nm
Frequency[3] = 1570 nm
Optical Spectrum Analyzer
Optical Power Meter
Optical Spectrum Analyzer_1
Optical Power Meter_1
Optical Spectrum Analyzer_2
Optical Power Meter_2
Optical Spectrum Analyzer_3
Optical Power Meter_3
Main Layout
Layout
Report
Script
Project1
Project2
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:41 AM
4/22/2024


OptiSystem - [Project2]
Optical Power Meter
209.344 W
53.209 dBm
Signal Index: 0
Total Power
Optical Power Meter
21.000 E-9 W
46.777 dBm
Signal Index: 0
Total Power
Optical Power Meter
21.000 E-9 W
46.777 dBm
Optical Power Meter
21.000 E-9 W
46.777 dBm
Main Layout
Layout
Report
Script
Project1
Project2
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:41 AM
4/22/2024


OptiSystem - [Project2]
File Edit View Layout Tools Report Script Add-Ins
Optical Spectrum Analyzer
Spectrum Analyzer
Signal Index: 0
Auto Set
Wavelength
Units: m
Automatic range
Center: 1.51e-006 m
Start: 1.50733e-006 m
Stop: 1.51268e-006 m
Amplitude
Units: dBm
Automatic range
Max: 59.439 dBm
Min: -107.592 dBm
Resolution Bandwidth
Res: 0.01 nm
Invert Colors
Optical Power Meter
Main Layout
Layout
Report
Script
Project1
Project2
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:40 AM
4/22/2024


OptiSystem - [Project2]
File Edit View Layout Tools Report Script Add-Ins
Optical Spectrum Analyzer
Signal Index: 0
Auto Set
Wavelength
Units: m
Automatic range
Center: 1.53e-006 m
Start: 1.52726e-006 m
Stop: 1.53275e-006 m
Amplitude
Units: dBm
Automatic range
Max: 60.4433 dBm
Min: -107.64 dBm
Resolution Bandwidth
Res: 0.01 nm
Invert Colors
Main Layout
Layout
Report
Script
Project1
Project2
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:43 AM
4/22/2024


OptiSystem - [Project2]
File Edit View Layout Tools Report Script Add-Ins
Optical Spectrum Analyzer
Optical Spectrum Analyzer_3
Signal Index: 0
Auto Set
Wavelength
Units: m
Automatic range
Center: 1.55001e-006 m
Start: 1.54719e-006 m
Stop: 1.55283e-006 m
Amplitude
Units: dBm
Automatic range
Max: -44.8153 dBm
Min: -102.628 dBm
Resolution Bandwidth
Res: 0.01 nm
Invert Colors
Sampled
Parameterized
Noise
All
Power (dBm)
Wavelength (m)
Power
Power X
Power Y
CW Laser 3
Frequency = 1570 nm
Power = 180 W
Optical Spectrum Analyzer_3
Optical Power Meter_3
Main Layout
Layout
Report
Script
Project1
Project2
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:44 AM
4/22/2024


OptiSystem - [Project2]
File Edit View Layout Tools Report Script Add-Ins
Optical Spectrum Analyzer
Optical Spectrum Analyzer_3
Dbl Click On Objects to open properties. Move Objec
Wavelength (m)
Power (dBm)
Power X
Power Y
Main Layout
Layout
Report
Script
Project1
Project2
[CTRL] - Duplicate, [SHIFT] - Add to selection, [CTRL + SHIFT] Resize layout.
34°C
Haze
Search
11:45 AM
4/22/2024