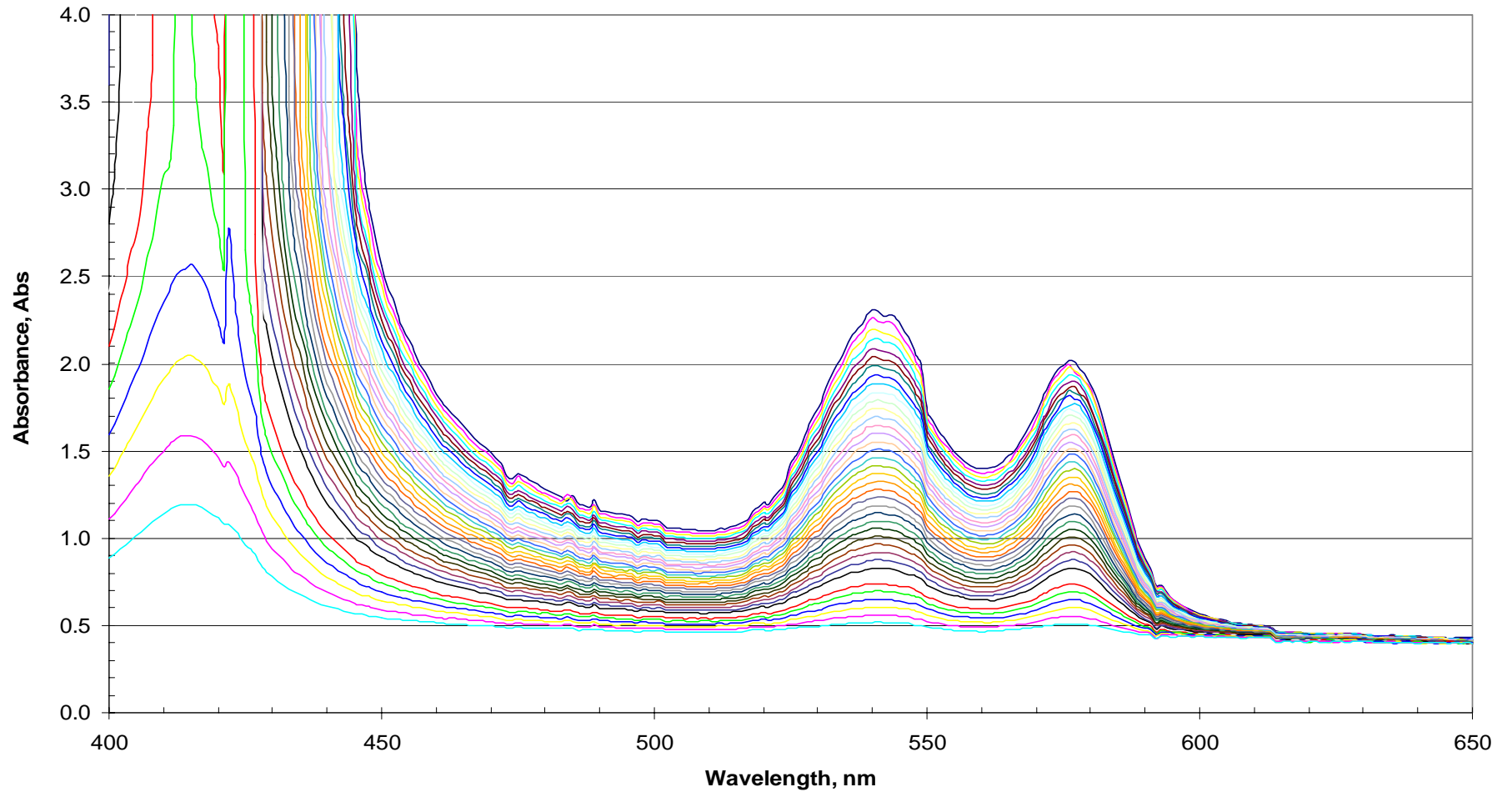
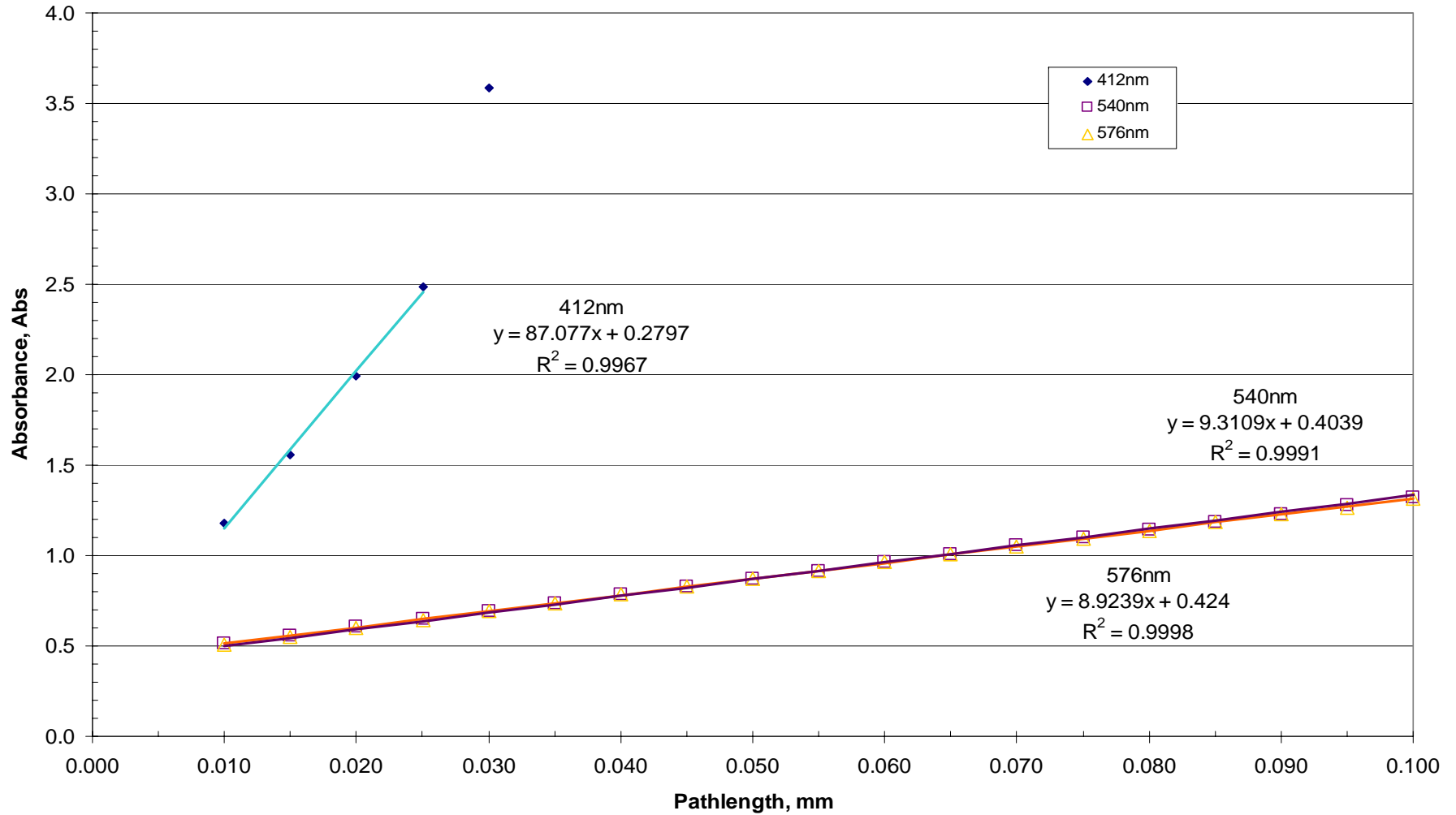


### Hemoglobin Spectra Pathlength Range: 0.010 - 0.200 mm (0.005 mm Steps)



Hemoglobin Linearity Data  
Absorbance vs. Pathlength (@ Specified Wavelength)



## Test Results:

The measurement results are summarized as follows:

### Hemoglobin Specific Data:

- Hemoglobin Molecular Weight: 64,000 gm/mole
- Hemoglobin Absorbance Peaks: 412, 541 and 576 nm.
- Hemoglobin Molar Extinction Coefficient:  $4.9 \times 10^4 \text{ M}^{-1} \text{ cm}^{-1}$  at 576 nm

### Test 1 Results:

- Pathlength Resolution: 0.010 mm (10 microns)
- Pathlength Range: 0.010 mm to 0.200 mm
- **Concentration (Slope Spectroscopy Calculation): 116.24 mg/ml**

### Test 2 Results:

- Pathlength Resolution: 0.005 mm (5 microns)
- Pathlength Range: 0.010 mm to 0.200 mm
- **Concentration (Slope Spectroscopy Calculation): 116.56 mg/ml**

**NOTE: One of the unique features of the SoloVPE is its ability to determine extinction coefficients at multiple wavelengths of interest if the extinction coefficient is known at one wavelength. This is achieved with one sample, one test run and no dilutions.**