



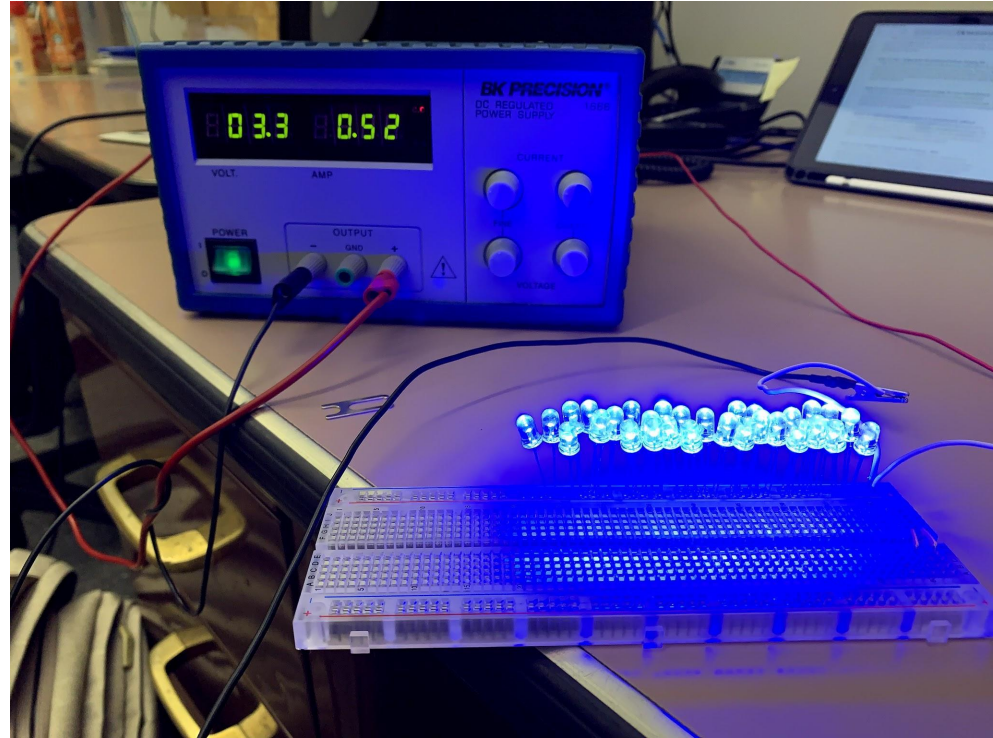
Week 3

Ethan Nguyen

Blue LED Array

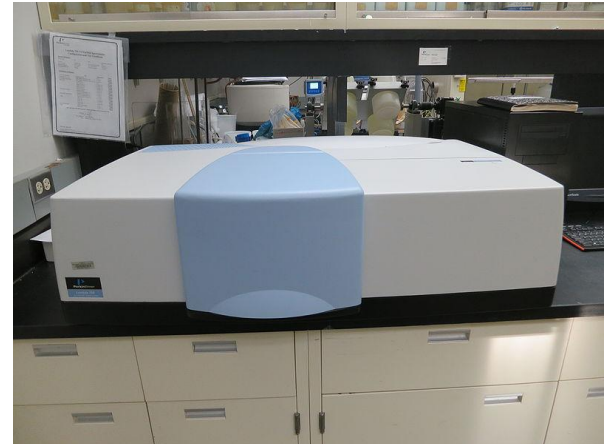
Problems:

- 2 defective LEDs
- 1 defective breadboard

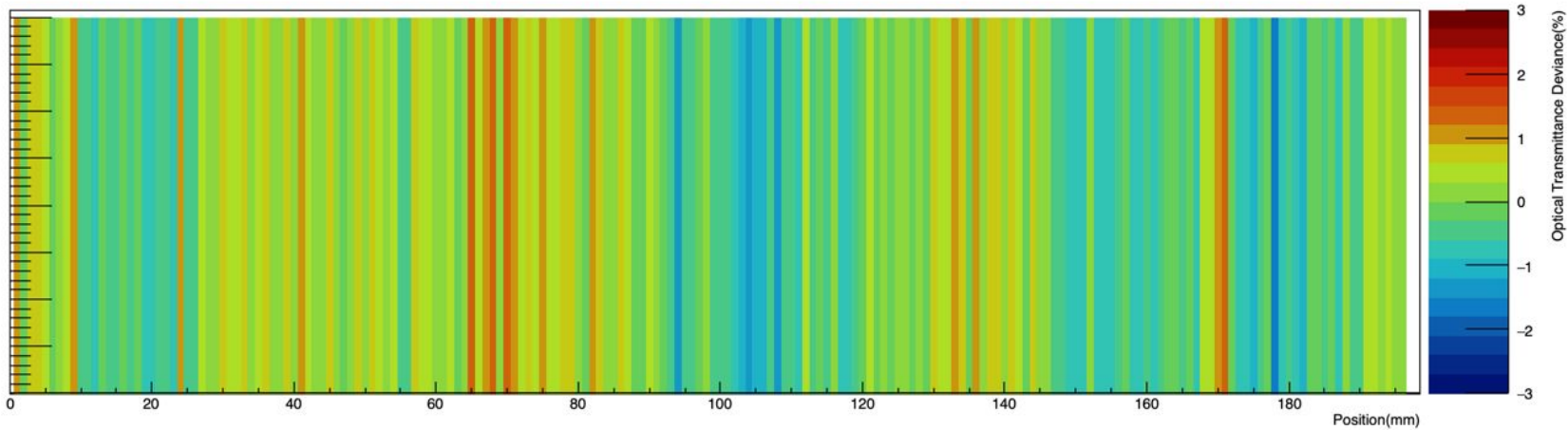


Crystal - Optical Transmittance

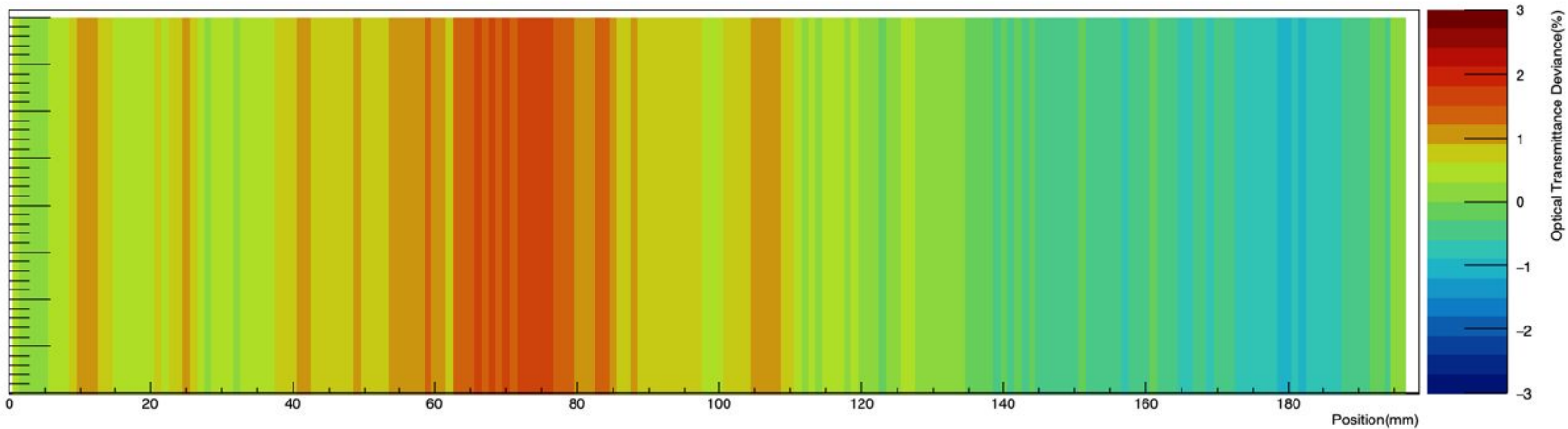
- Measured 5 crystals (including the “dark” one)



Crystal5478 (360 nm) - Position vs Deviance in Optical Transmittance



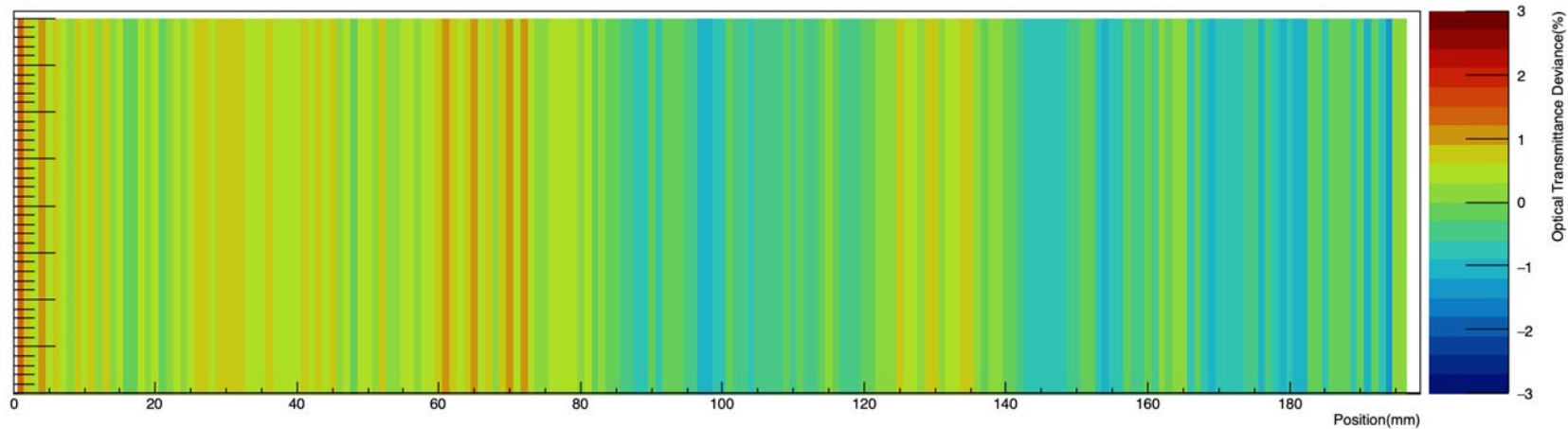
Crystal5476 (360 nm) - Position vs Deviance in Optical Transmittance



Crystal5478 (420 nm) - Position vs Deviance in Optical Transmittance

Dark

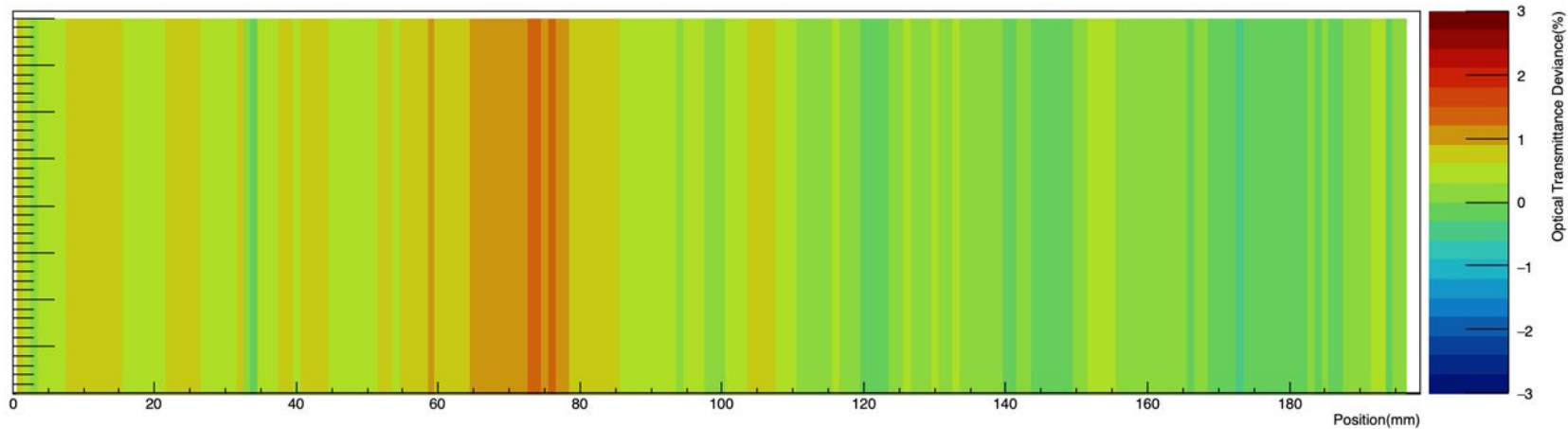
AVG=
76.69



Crystal5476 (420 nm) - Position vs Deviance in Optical Transmittance

Normal

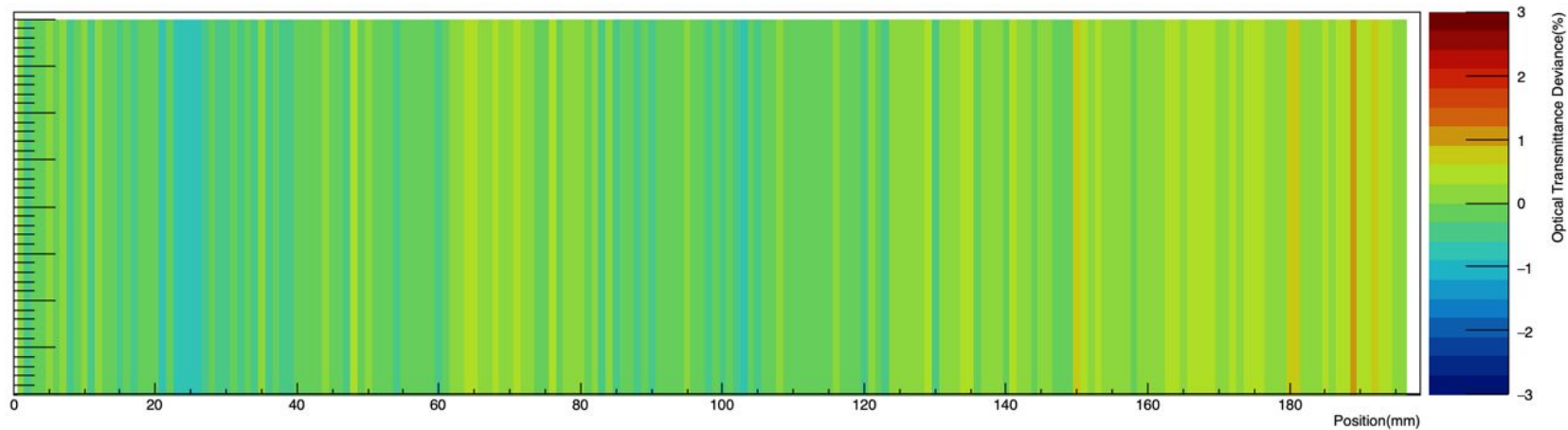
AVG=
77.17



Crystal5478 (620 nm) - Position vs Deviance in Optical Transmittance

Dark

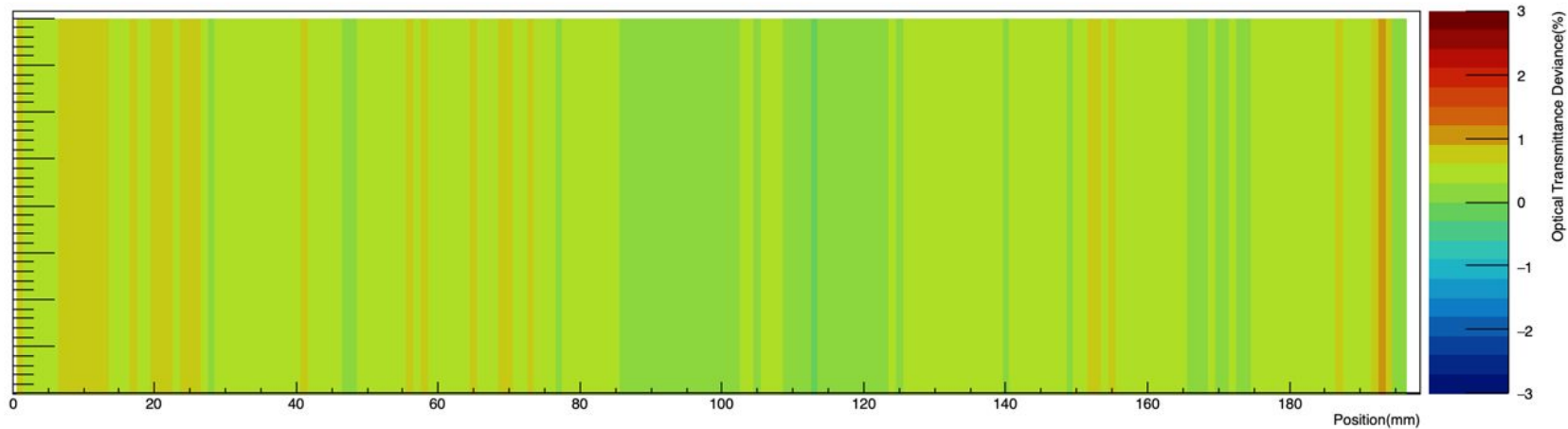
AVG=
82.78



Crystal5476 (620 nm) - Position vs Deviance in Optical Transmittance

Normal

AVG=
81.67





3D Histogram Progress



Goals for Next Week

- Crystals - Measure optical transmittance on 4 sides
- 3D Histogram
 - Add 3 additional arrays/columns for data
 - Create unique faces
- KaonLT
 - Stack histograms