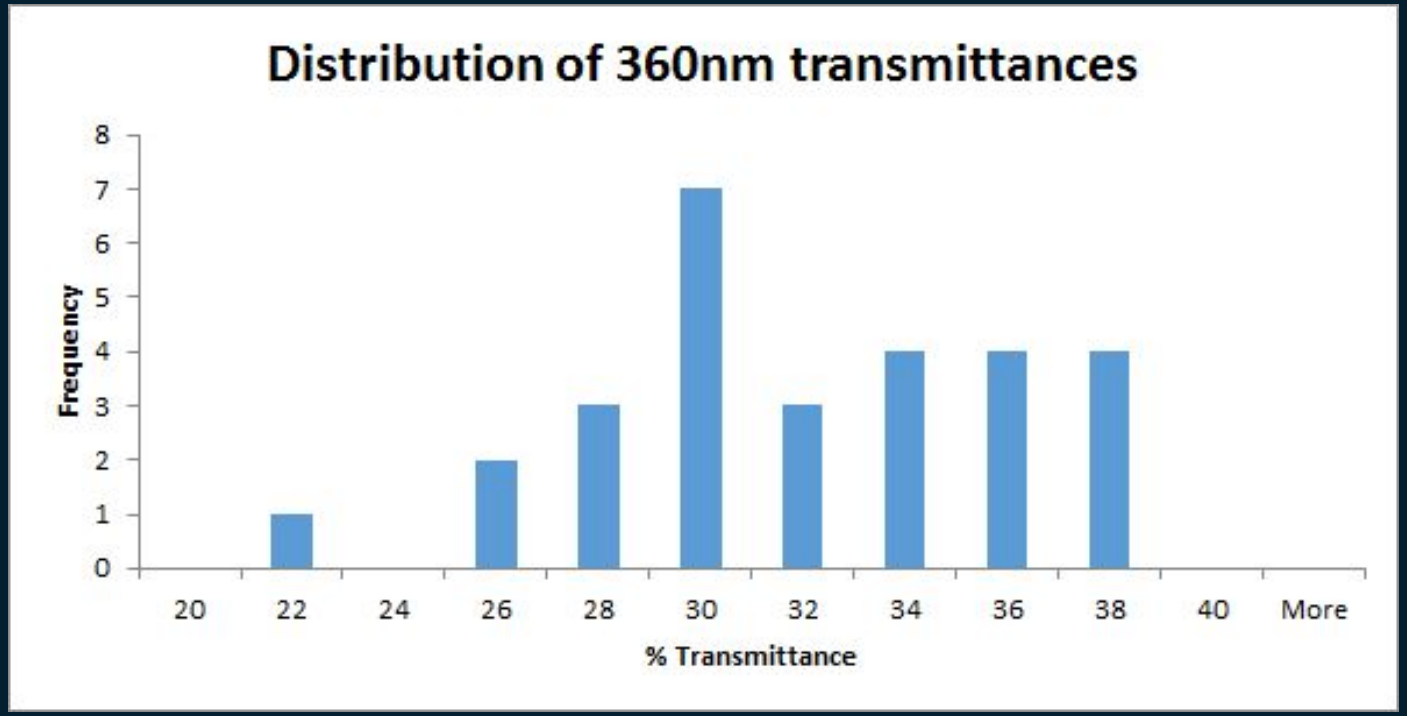
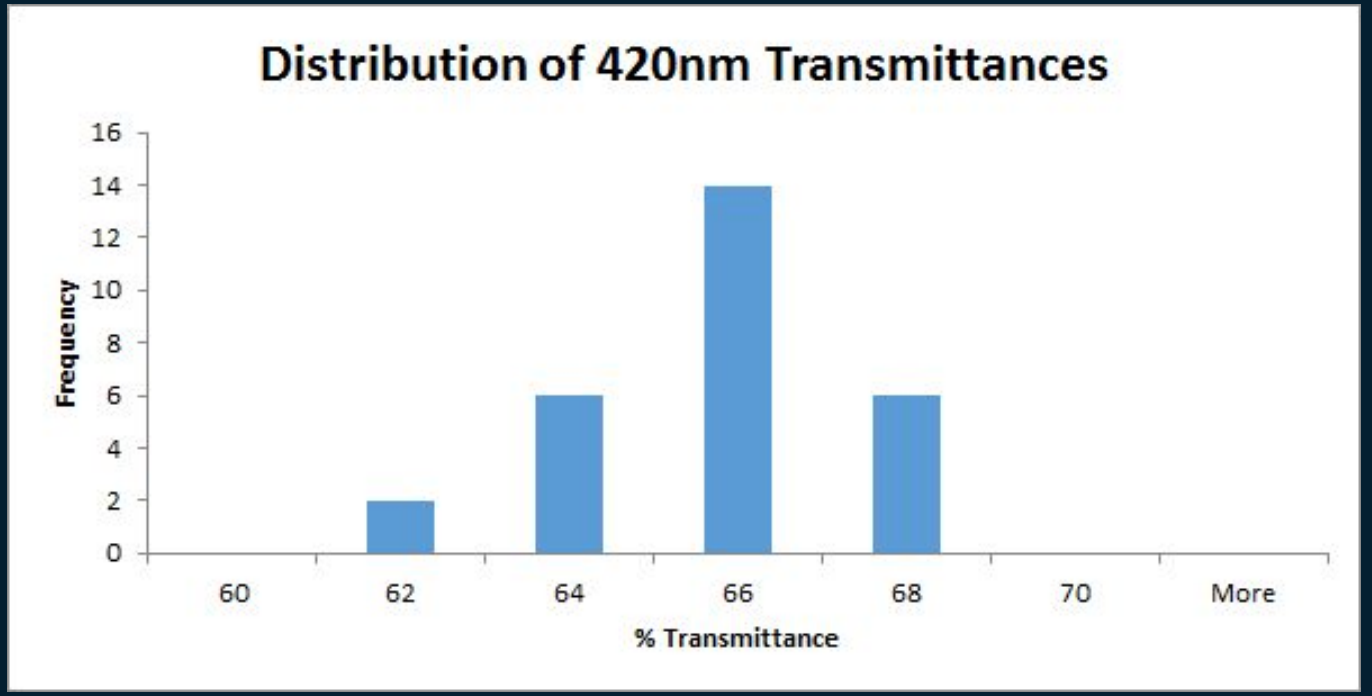
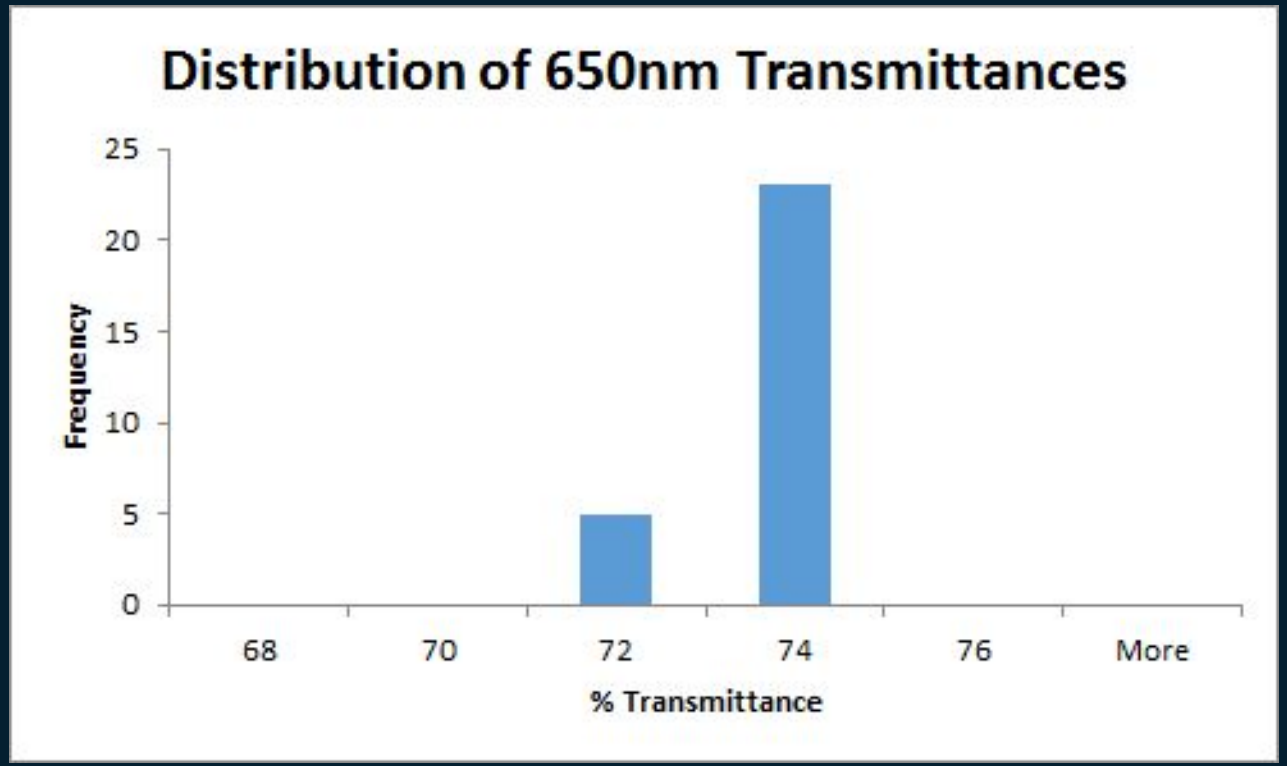
Final Week

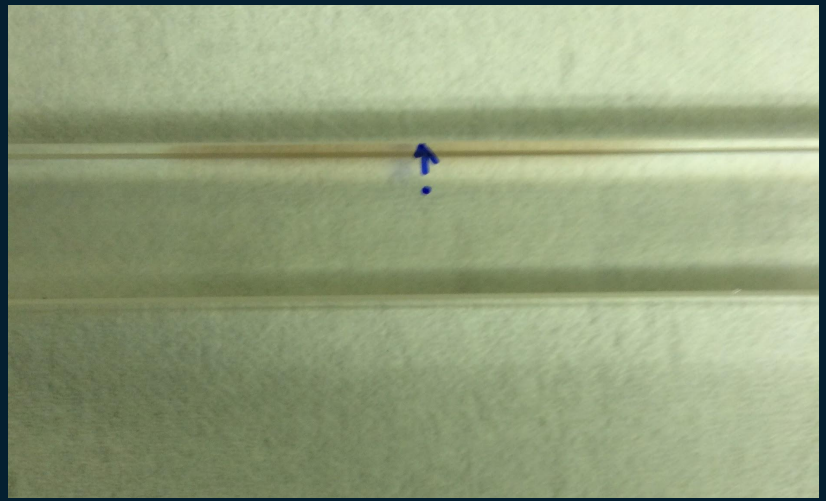
Abby+Dannie

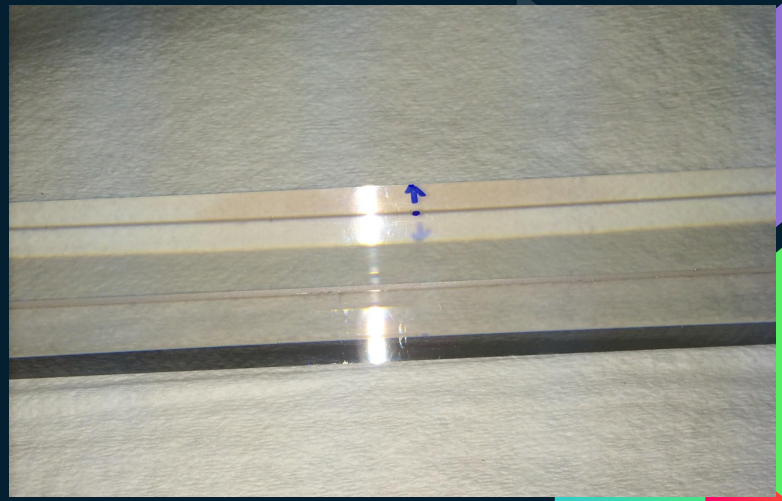

Distribution of 360nm transmittances
Frequency
0
1
2
3
4
5
6
7
8
20
22
24
26
28
30
32
34
36
38
40
More
% Transmittance

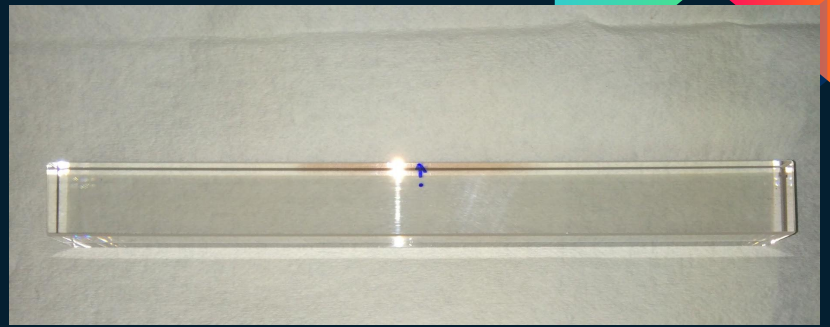

Distribution of 420nm Transmittances
Frequency
16
14
12
10
8
6
4
2
0
60
62
64
66
68
70
More
% Transmittance

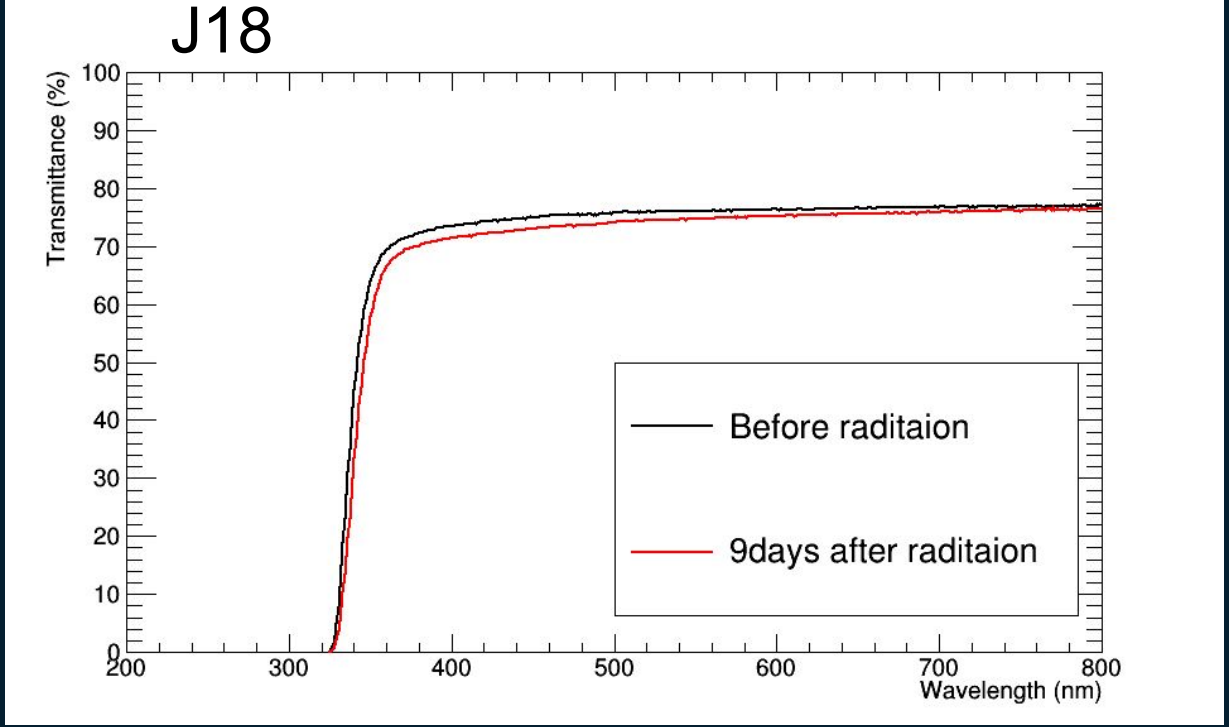

Distribution of 650nm Transmittances
Frequency
25
20
15
10
5
0
68
70
72
74
76
More
% Transmittance

J23 → Browning!



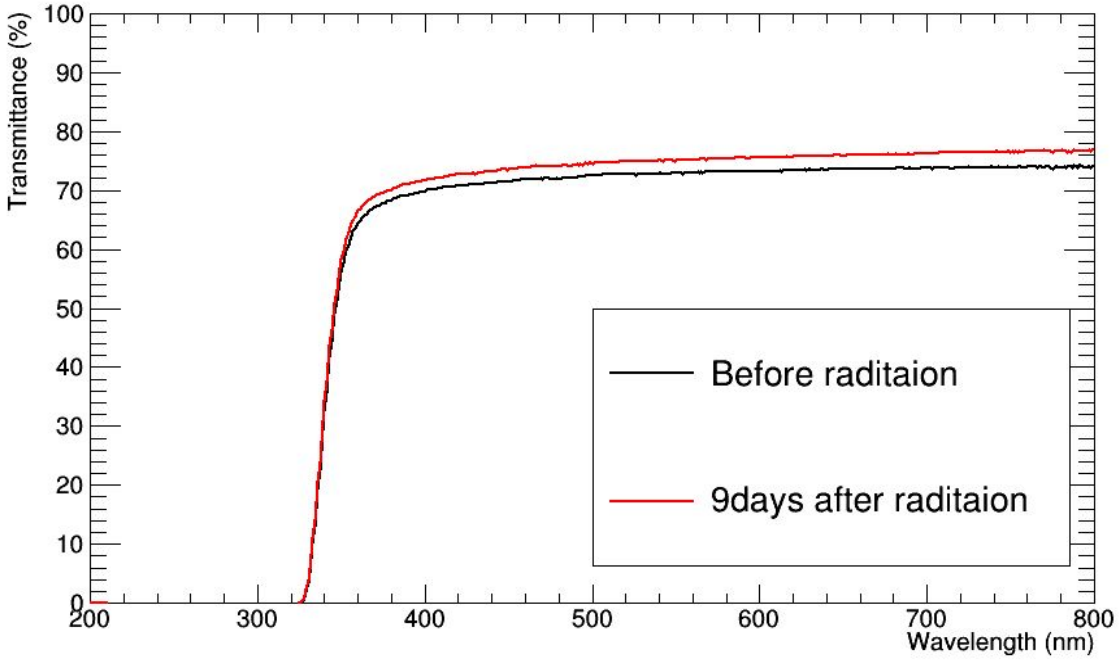


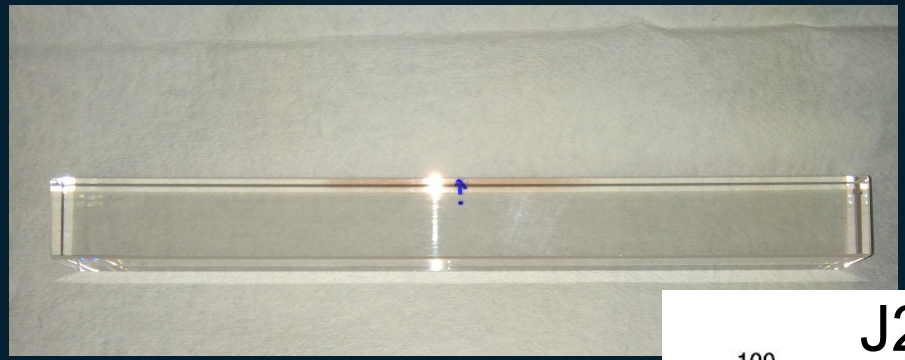




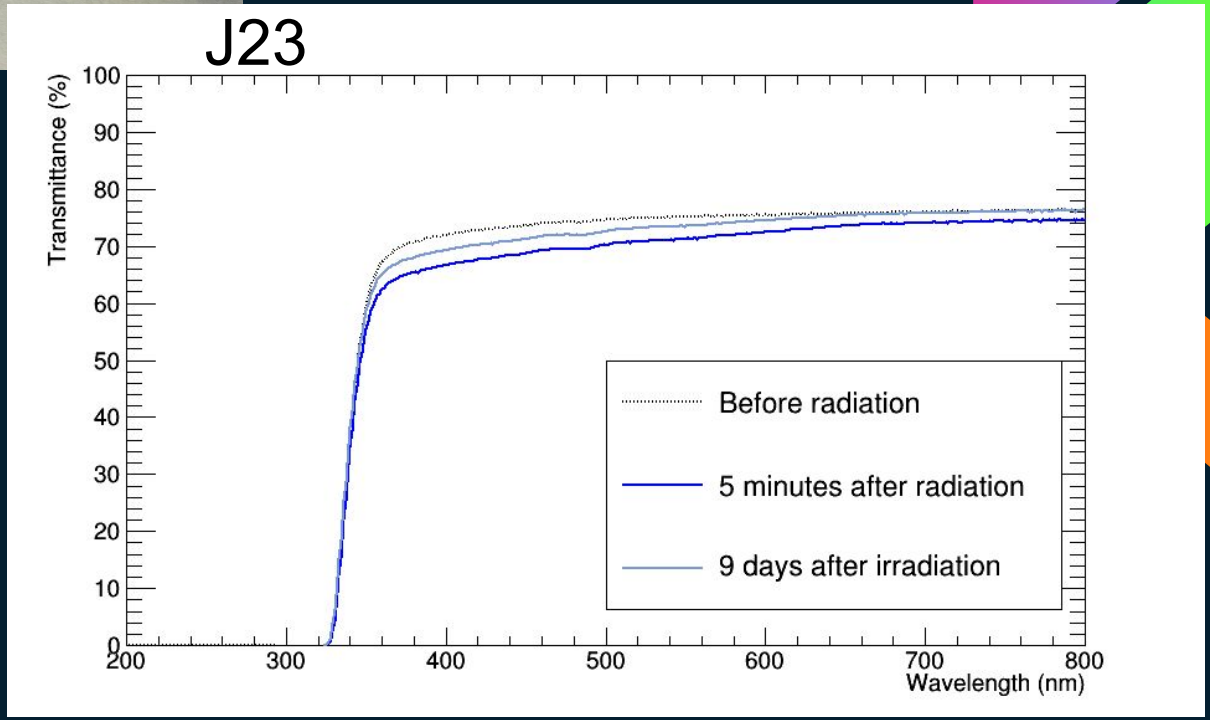
- Some crystals were irradiated but their pos IR transmittance isn't know (spectrometer issues)
- Crystals were left in casing for 9 days to see if they would cure

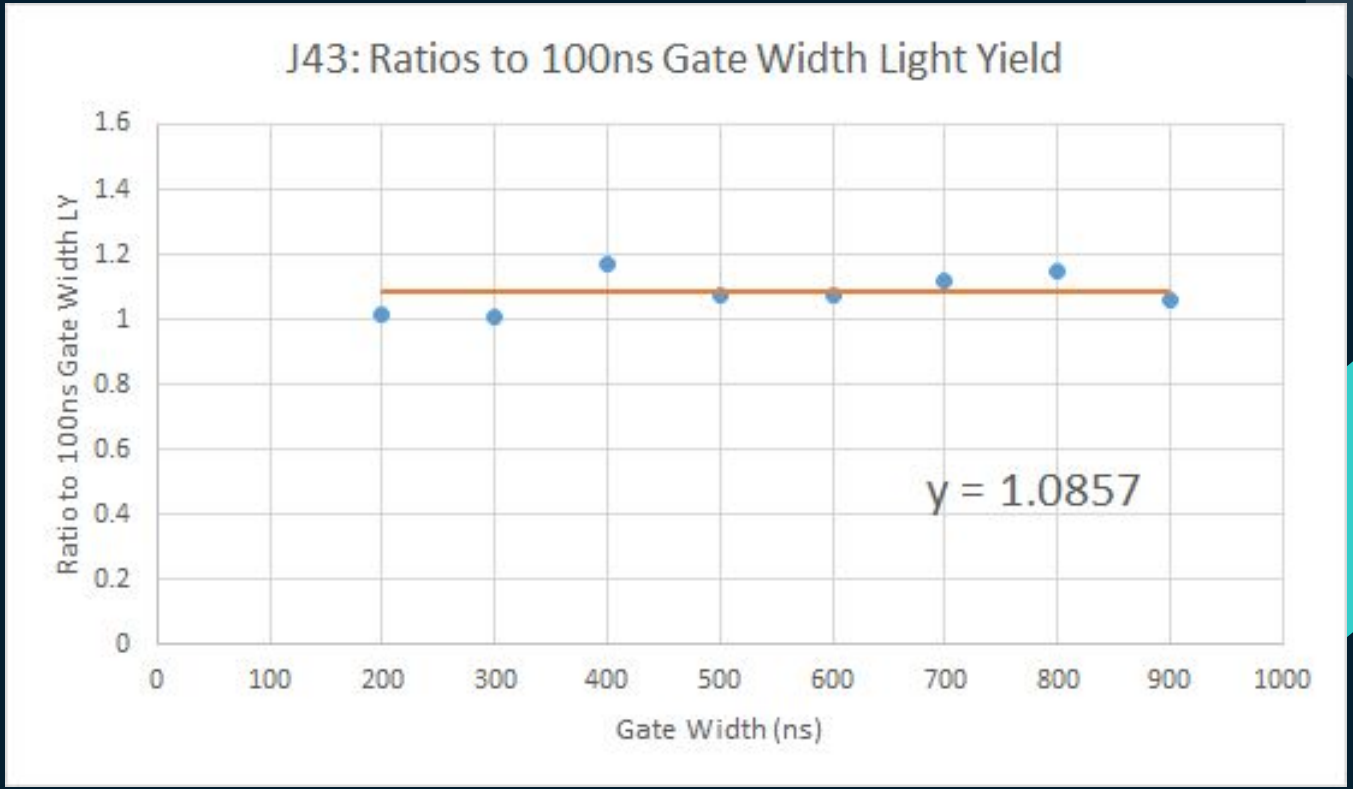
J20

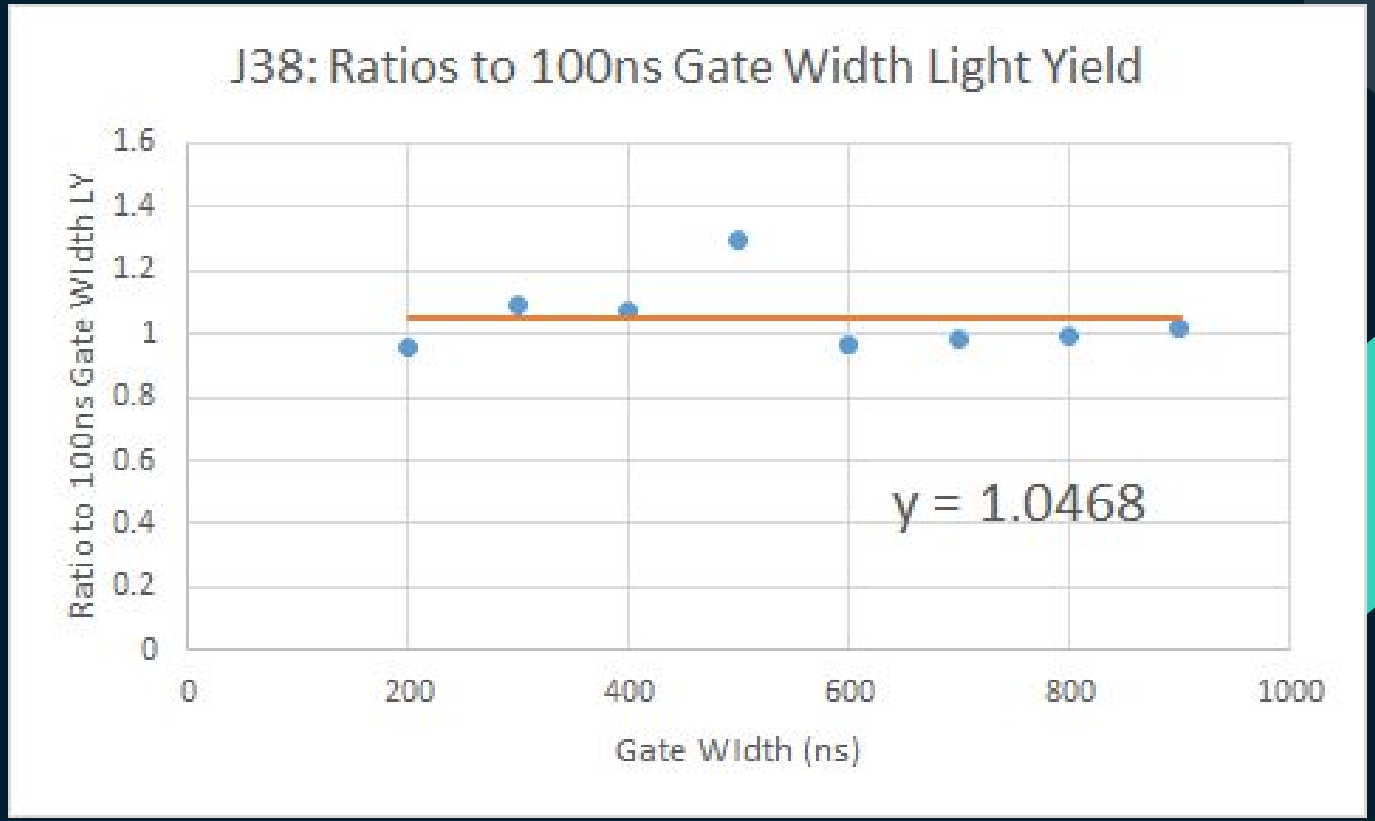

Transmittance (%)
100
90
80
70
60
50
40
30
20
10
0
200
300
400
500
600
700
800
Wavelength (nm)
Before raditaion
9days after raditaion



dk @ 420nm = 3.6501




J43: Ratios to 100ns Gate Width Light Yield
Ratio to 100ns Gate Width LY
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
600
700
800
900
1000
Gate Width (ns)
y = 1.0857


J38: Ratios to 100ns Gate Width Light Yield
Ratio to 100ns Gate Width LY
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
Gate Width (ns)
y = 1.0468

Light Yield Graphs

Best way to represent lots of crystals in one graph?

- Bar graph of different crystals and standard deviations of all measurements?

Working on Research Paper

http://www.vsl.cua.edu/cua_phy/index.php/MainPage:Nuclear:Summer2016:PWO