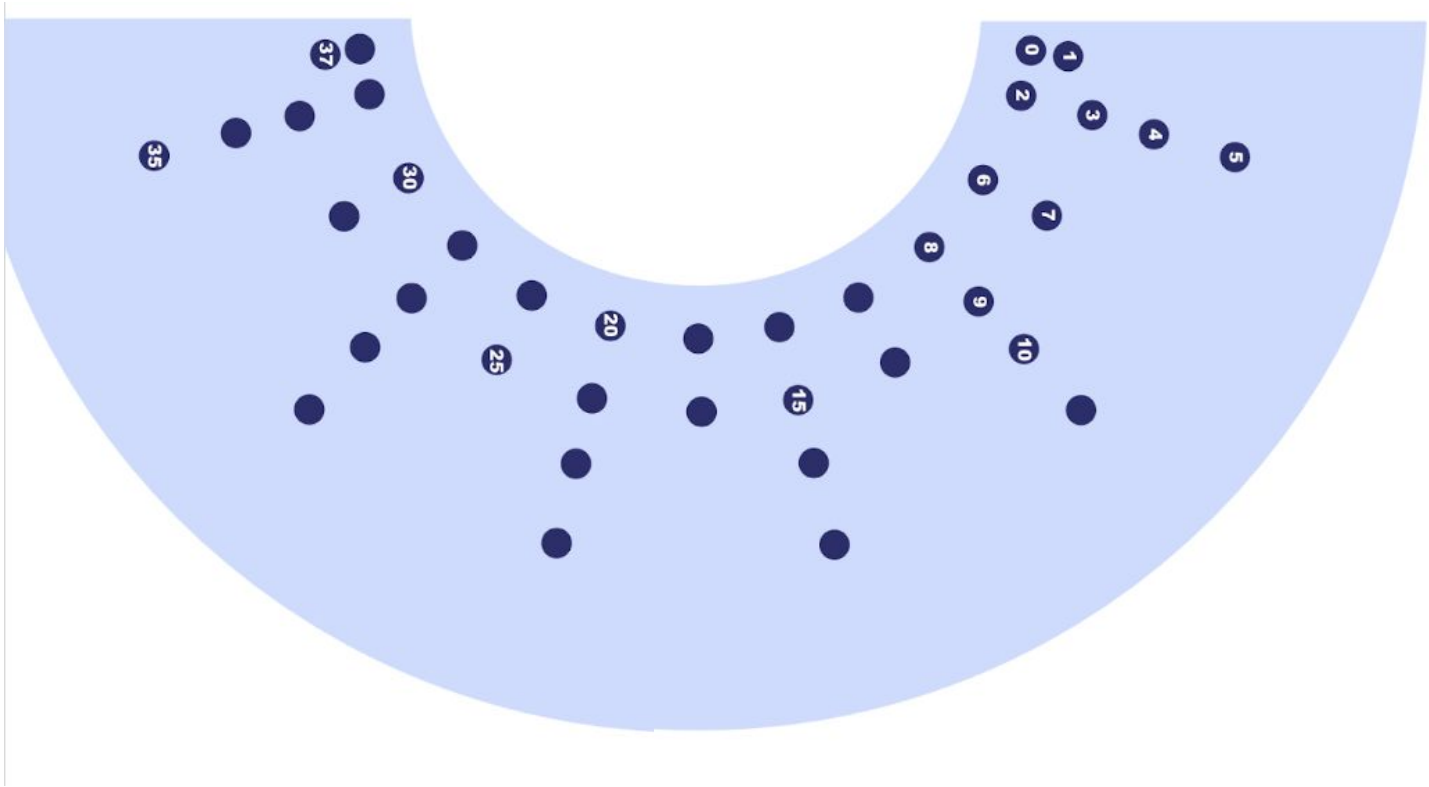
Results from day 3

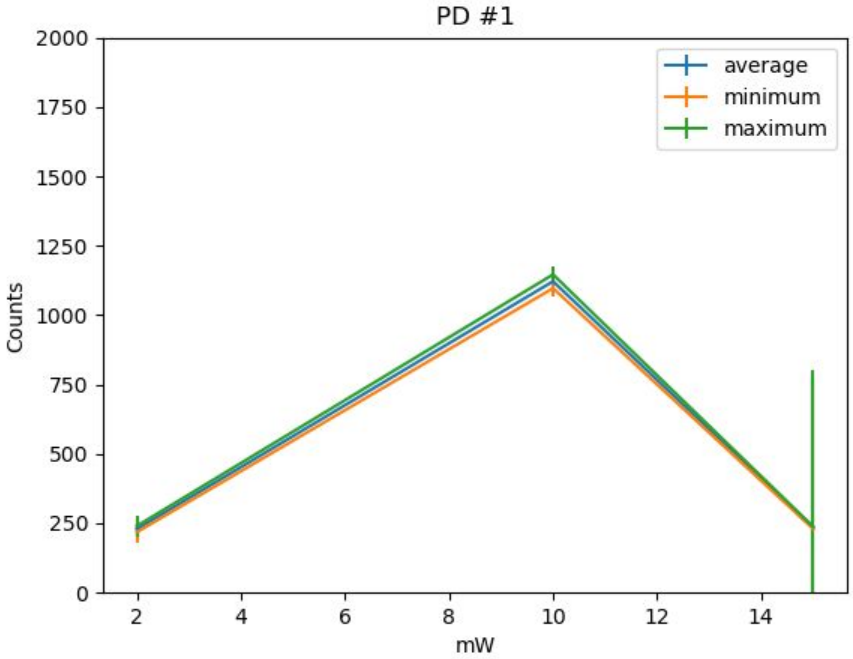
21st of April 2021

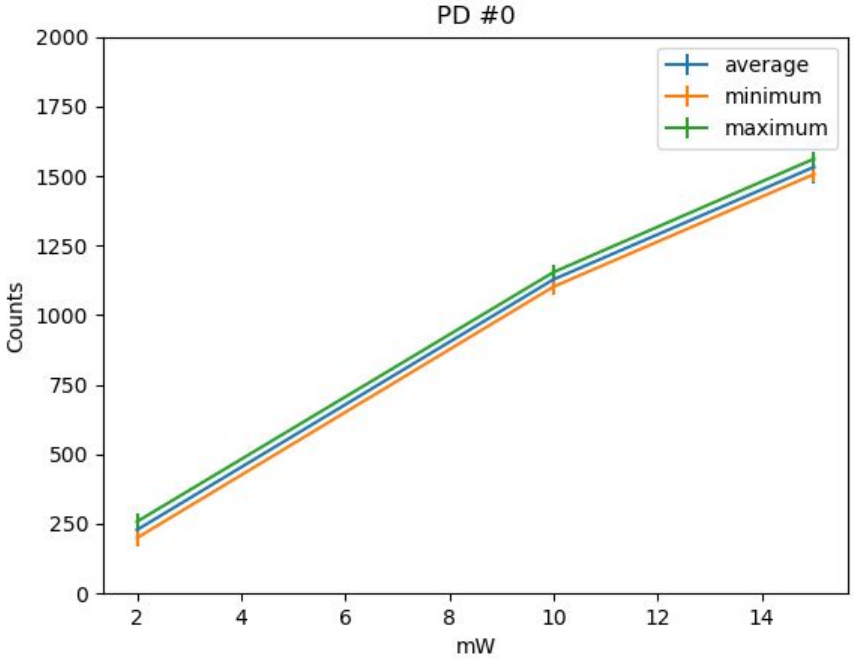
Distribution of PDs and associated numbers



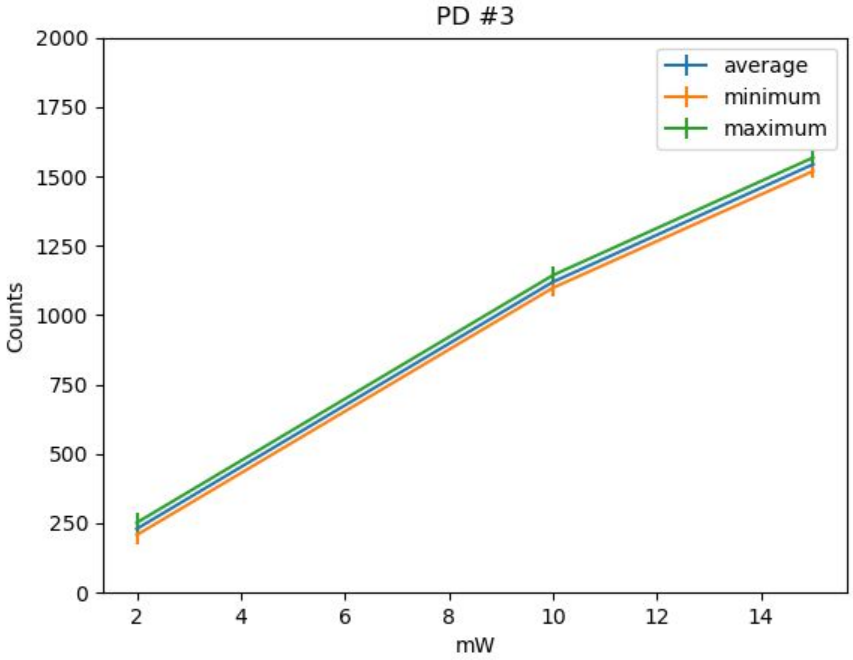
Measurements

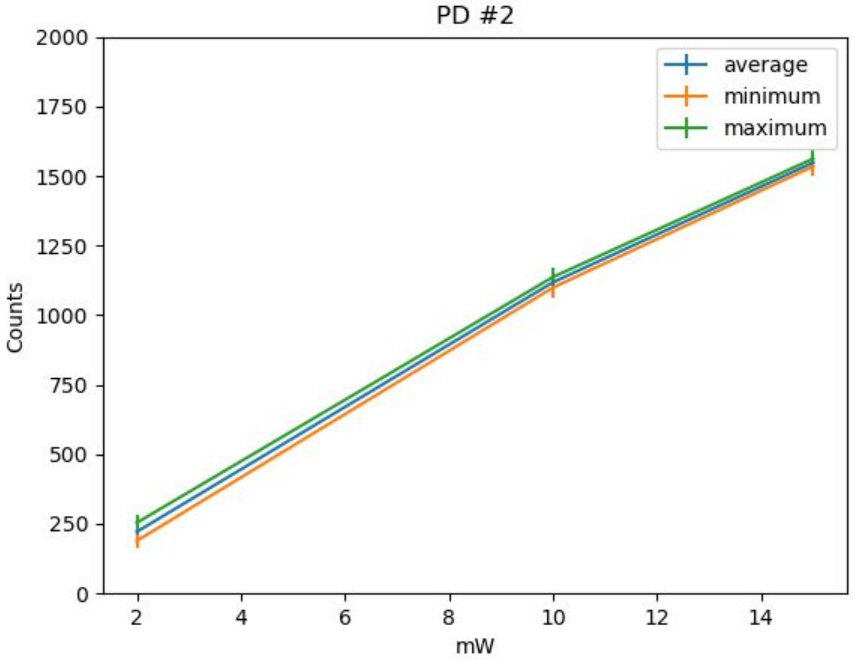
- Only three data points per PD: **2mW, 10mW, 15mW**
- **15”** of data for each power
- NOTE: the PCB is different from the one tested yesterday → it is the one **with capacitors**

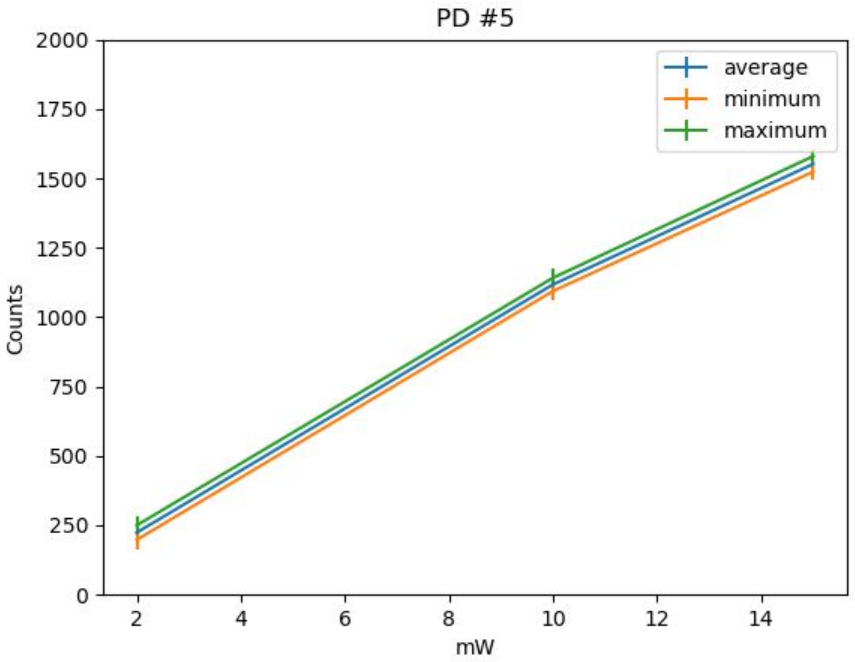


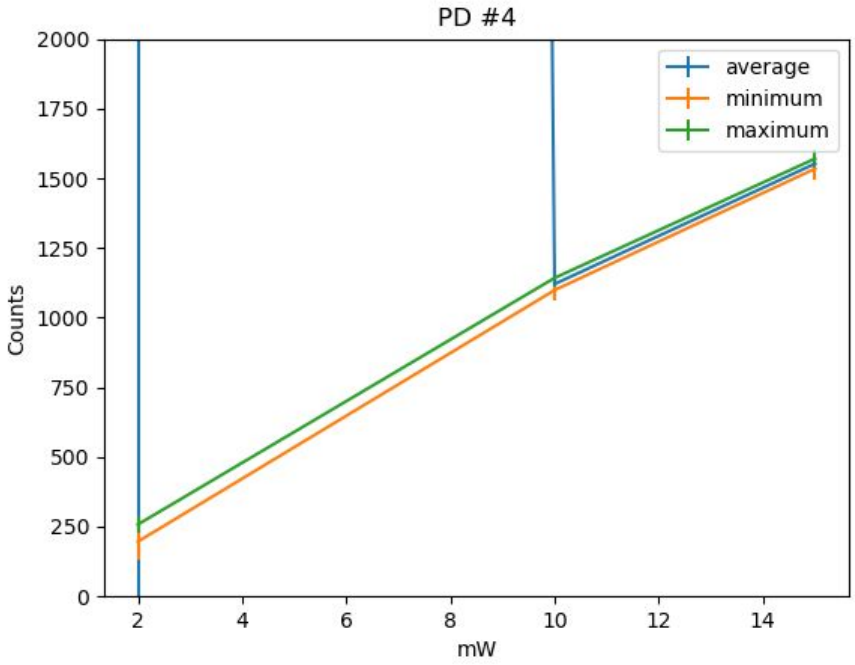


Need to repeat this one (probably it was my fault)

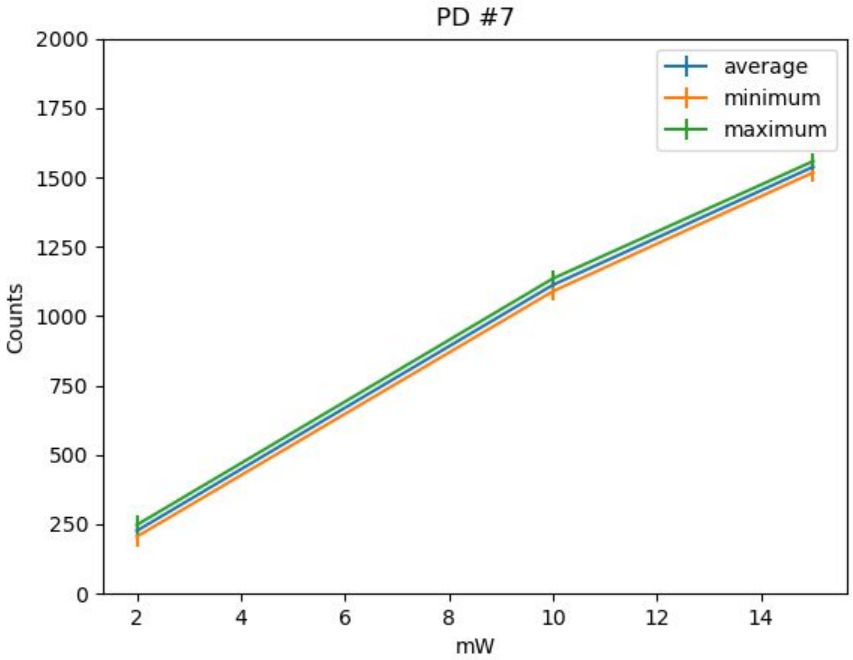

PD #3
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

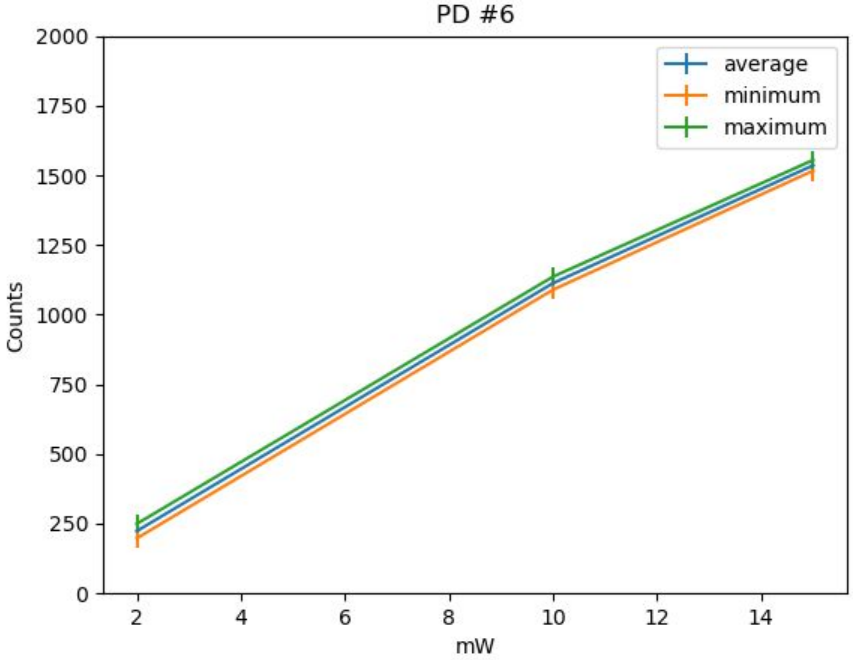

PD #2
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

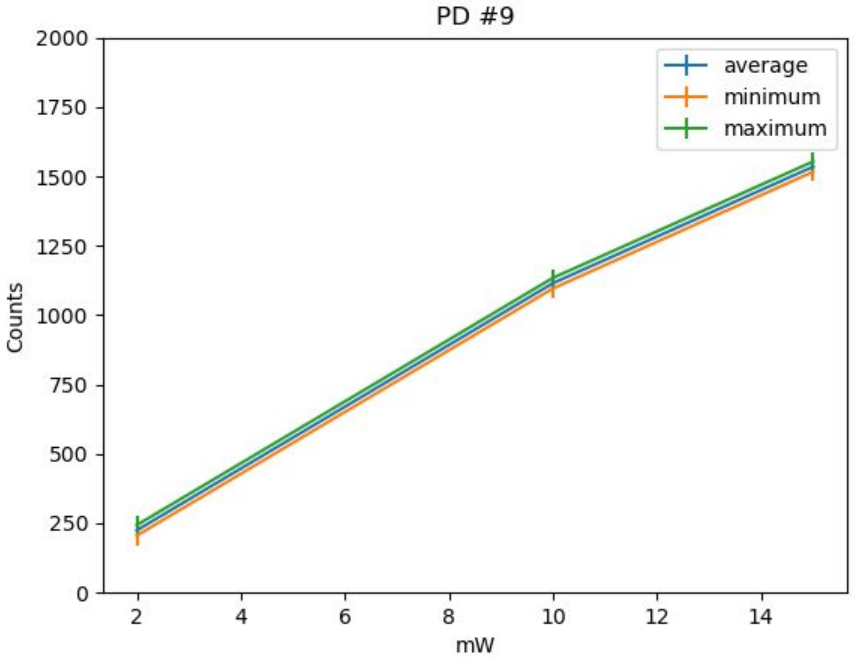


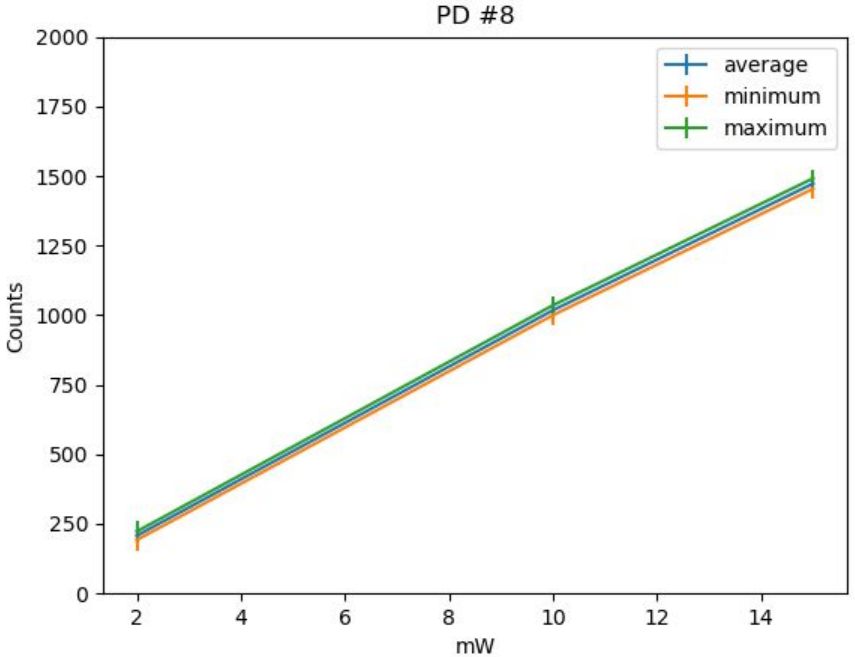


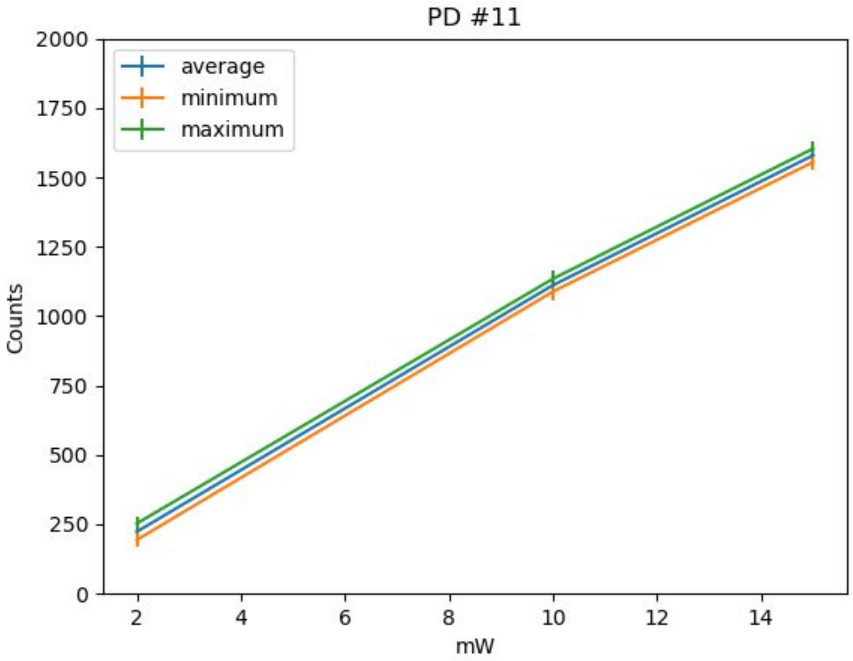
I will repeat the measurements for PD 4

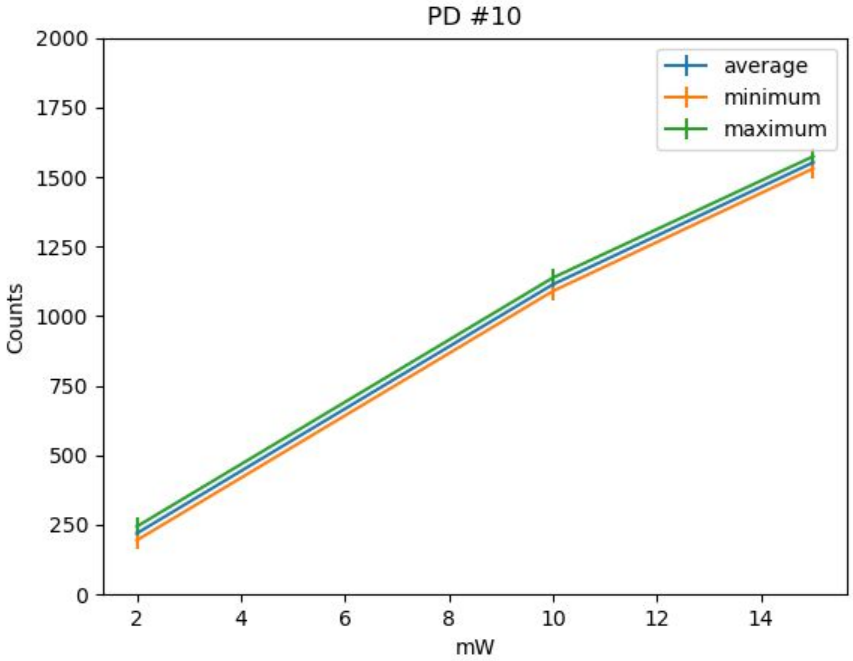

PD #7
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

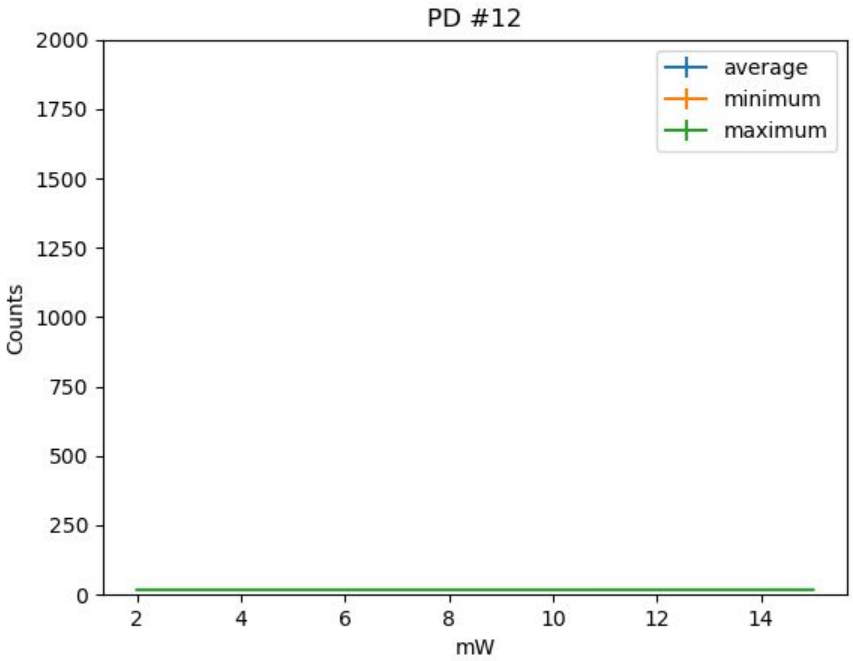

PD #6
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

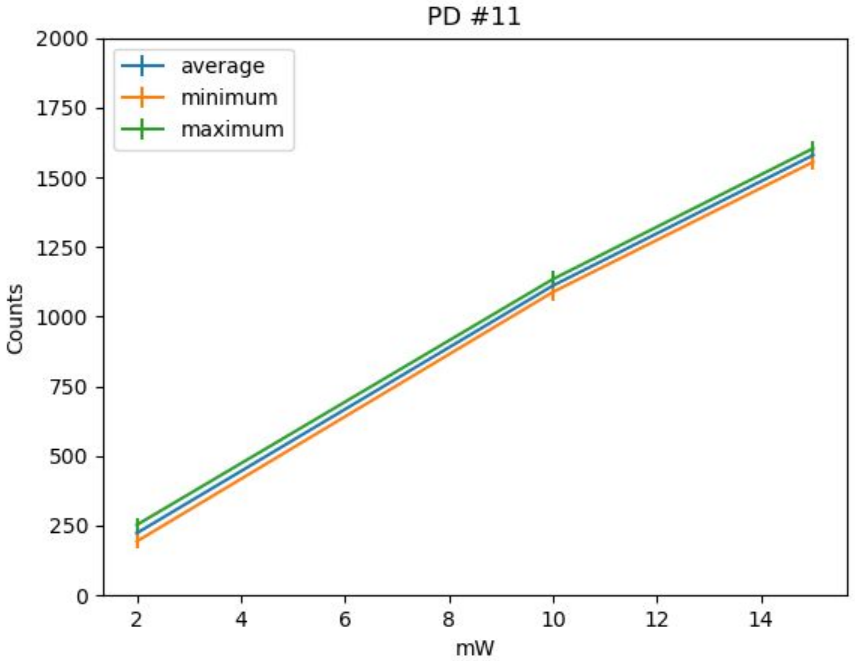

PD #9
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14


PD #8
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

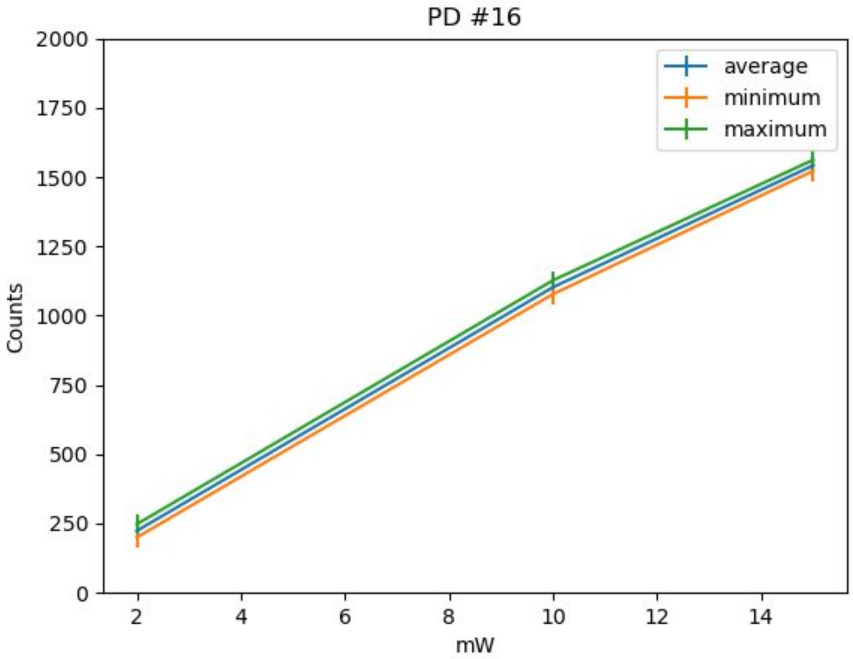

PD #11
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

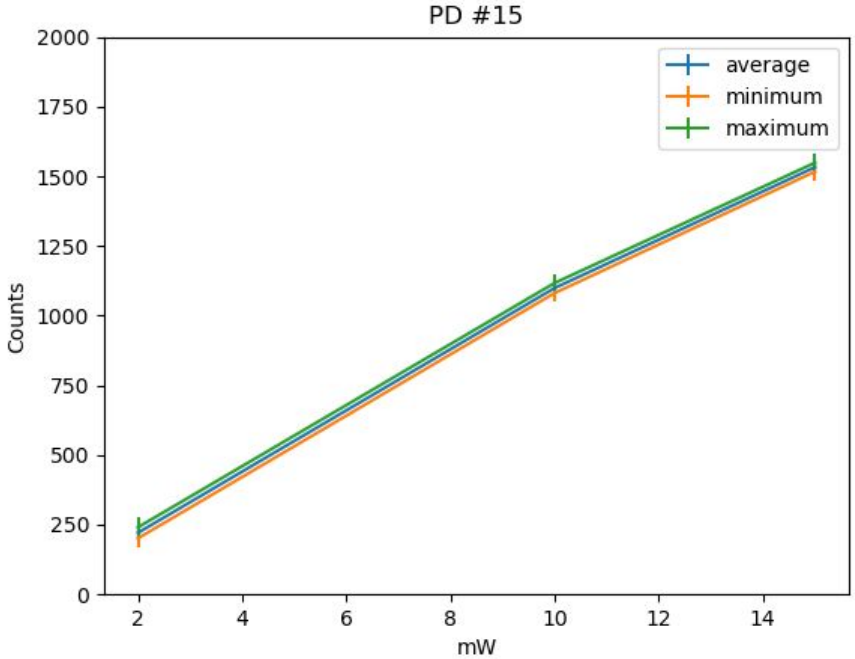

PD #10
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

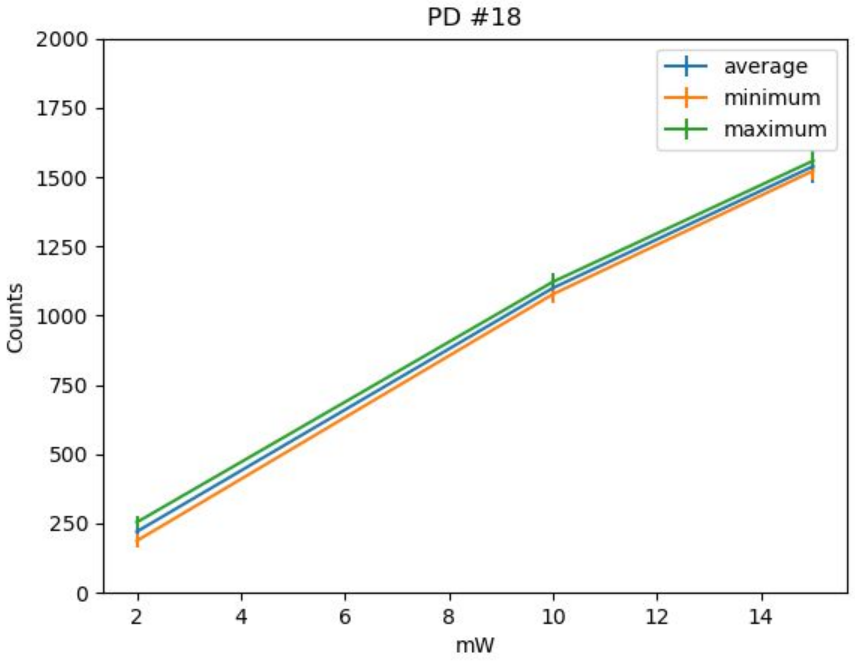


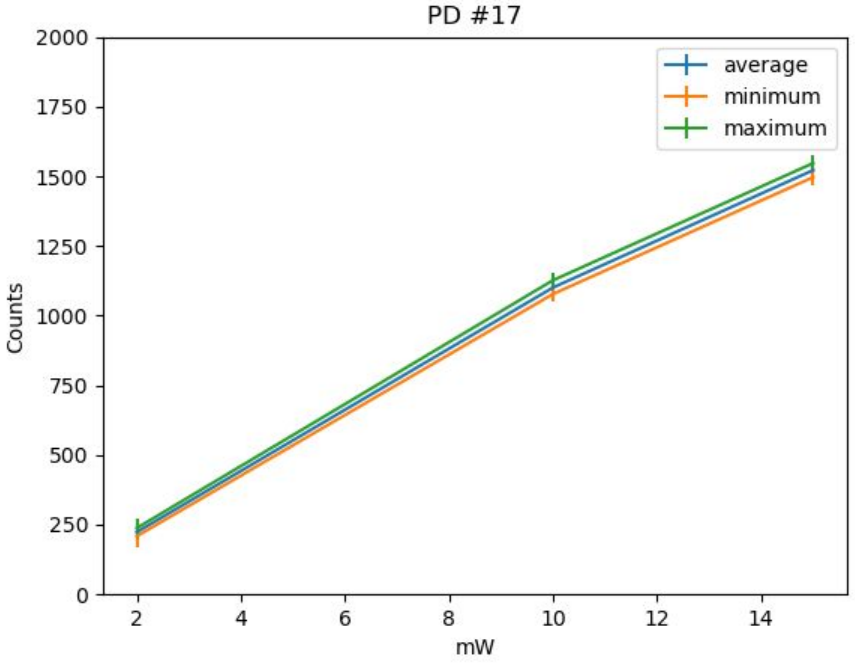


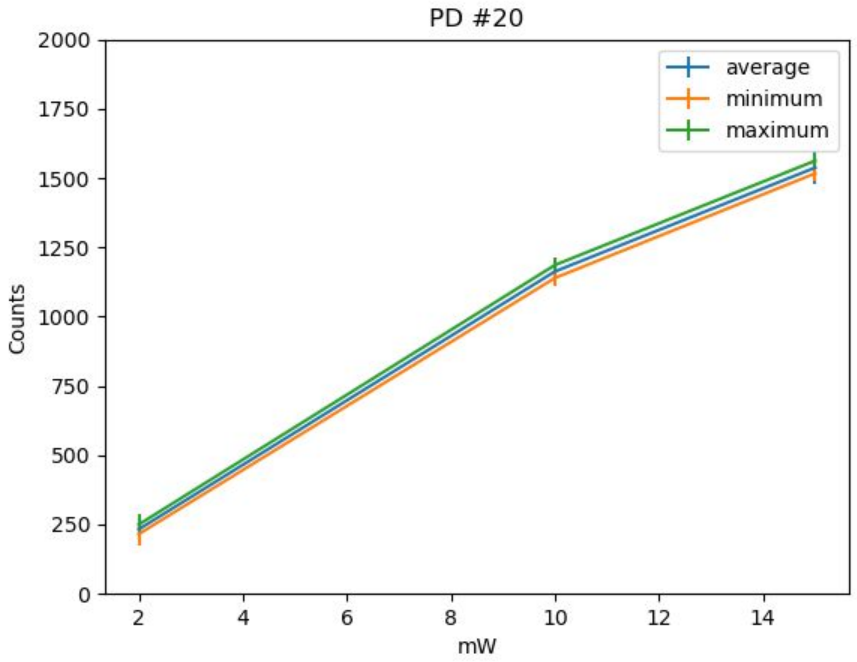
I will repeat the measurements for PD 12

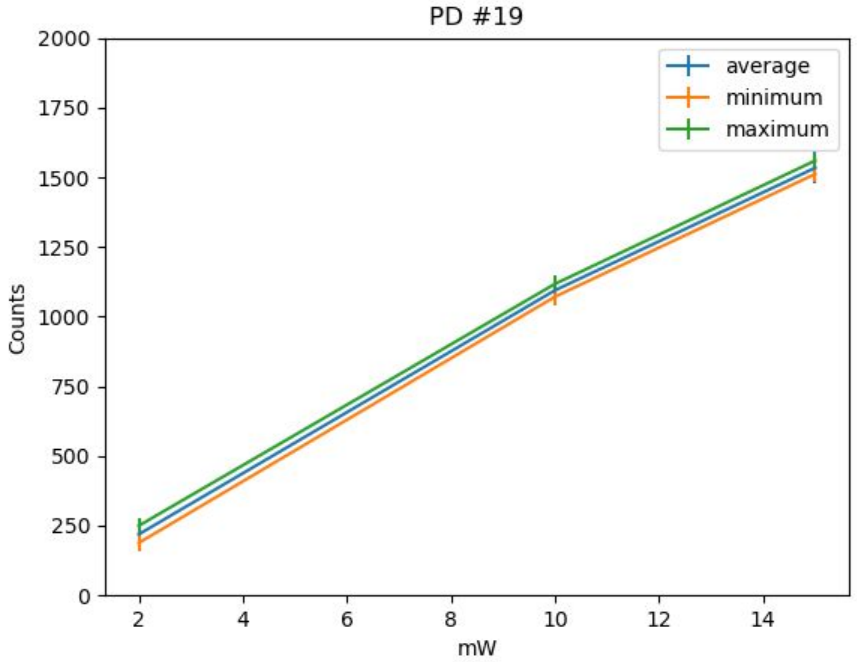

PD #16
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

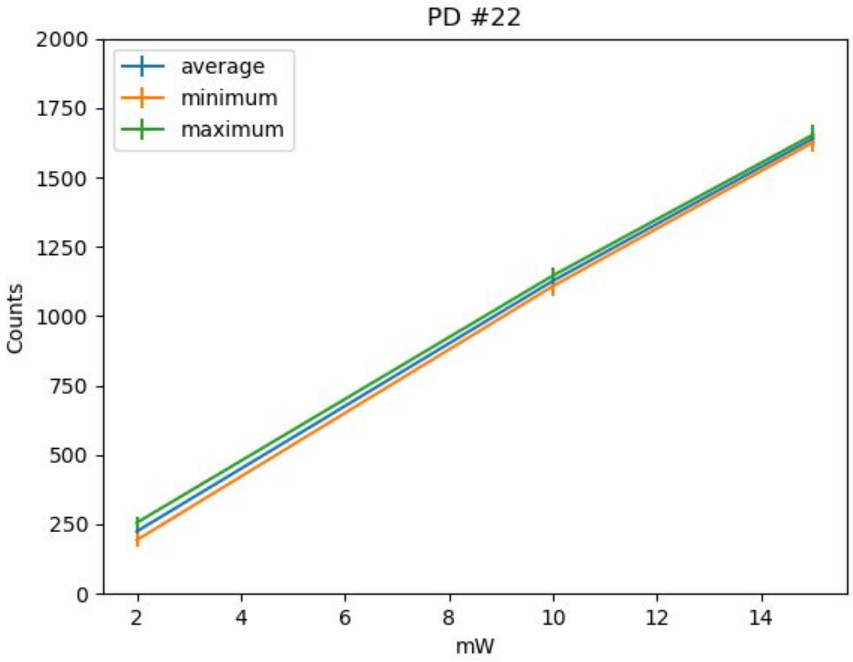

PD #15
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

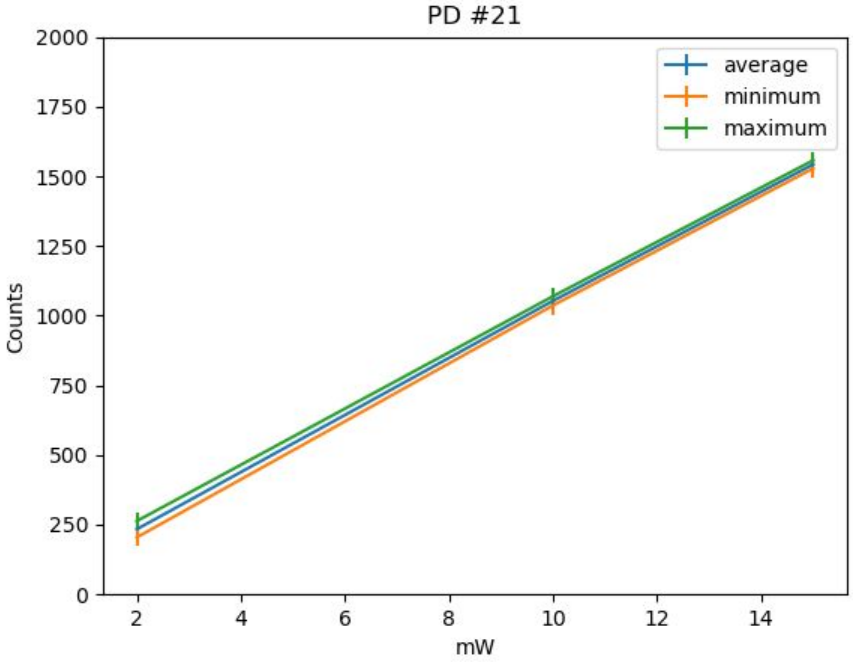

PD #18
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

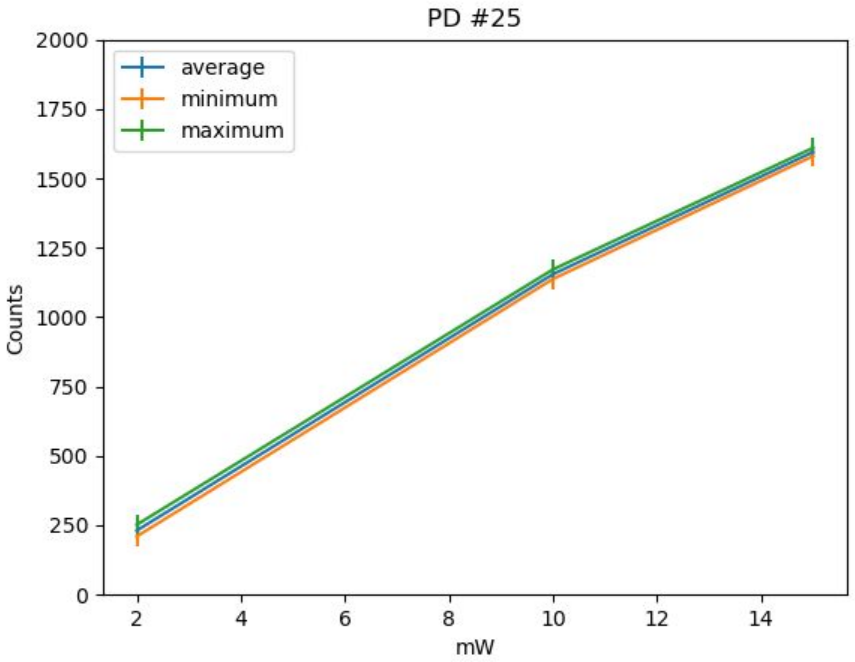

PD #17
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

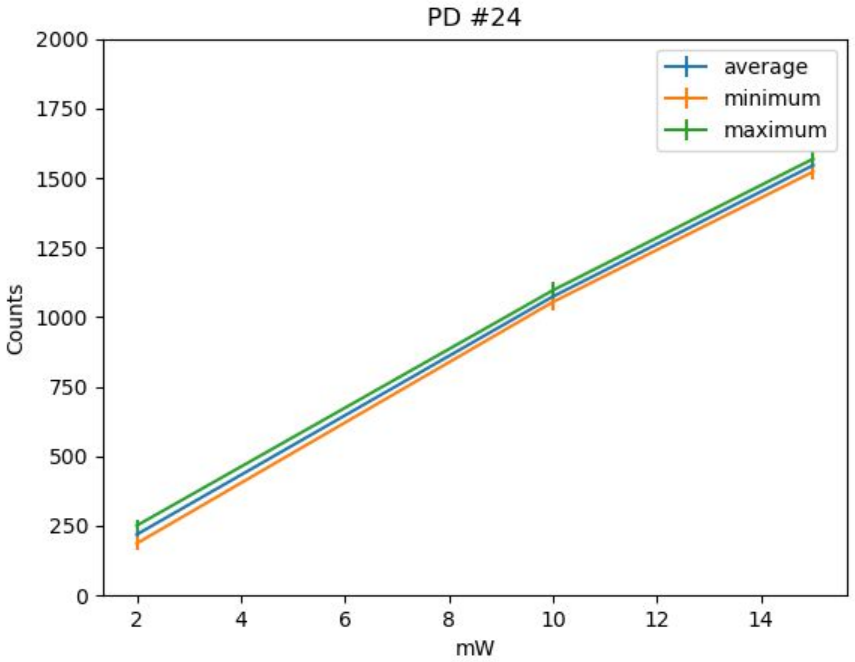

PD #20
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

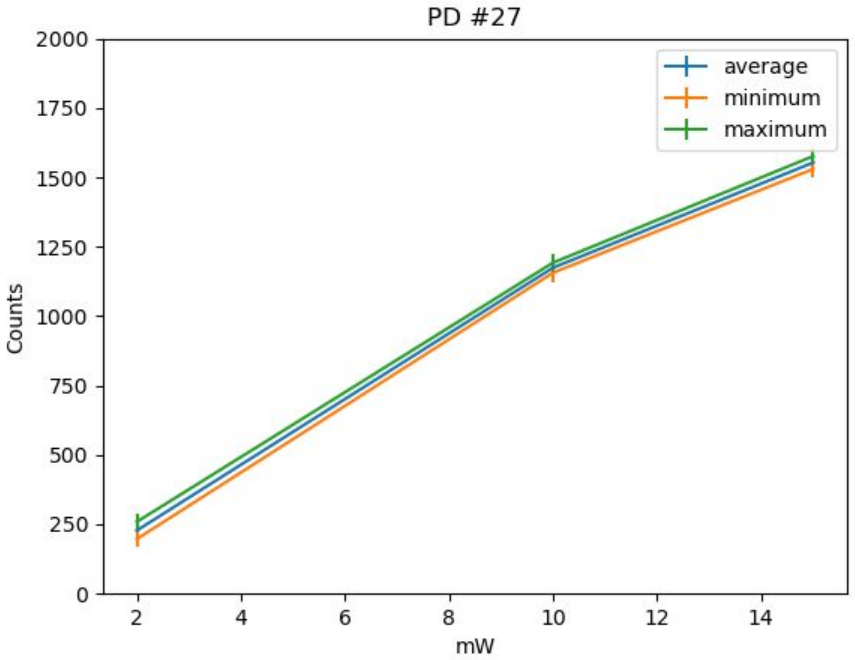

PD #19
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

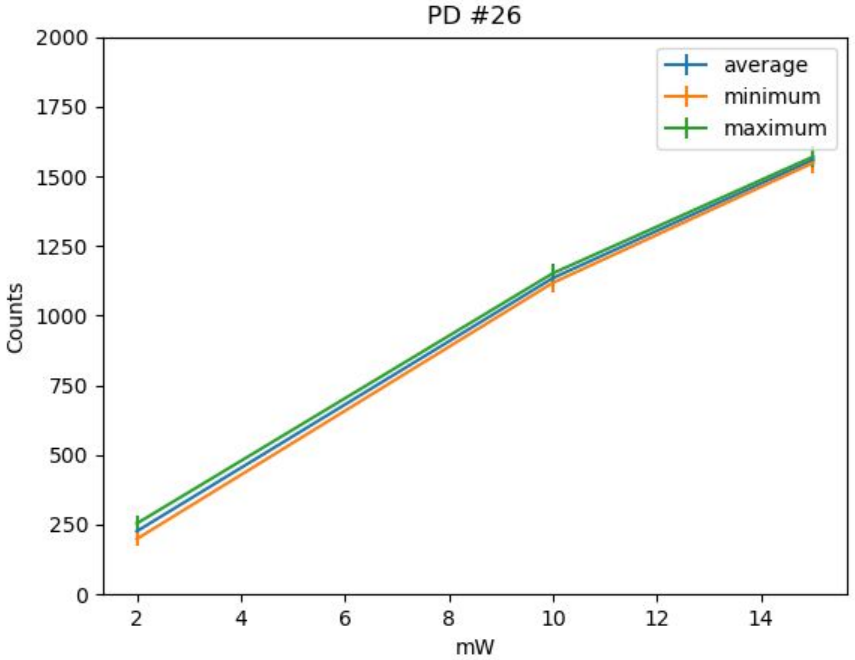

PD #22
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

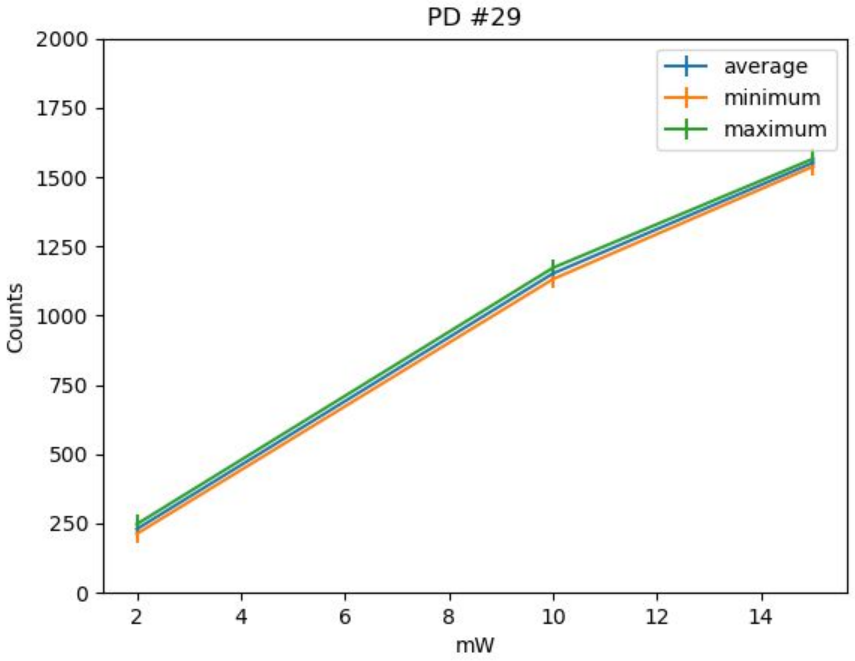

PD #21
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

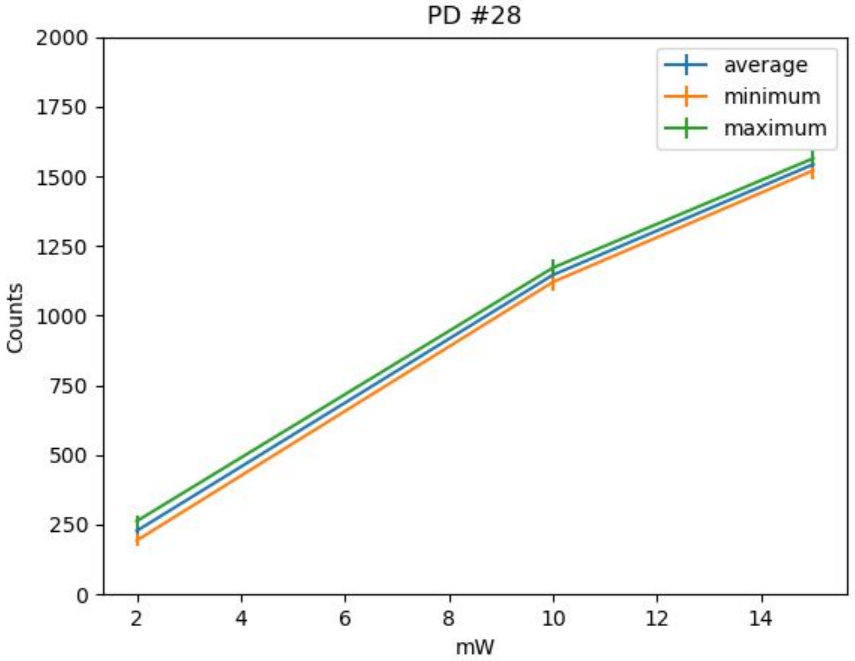

PD #25
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

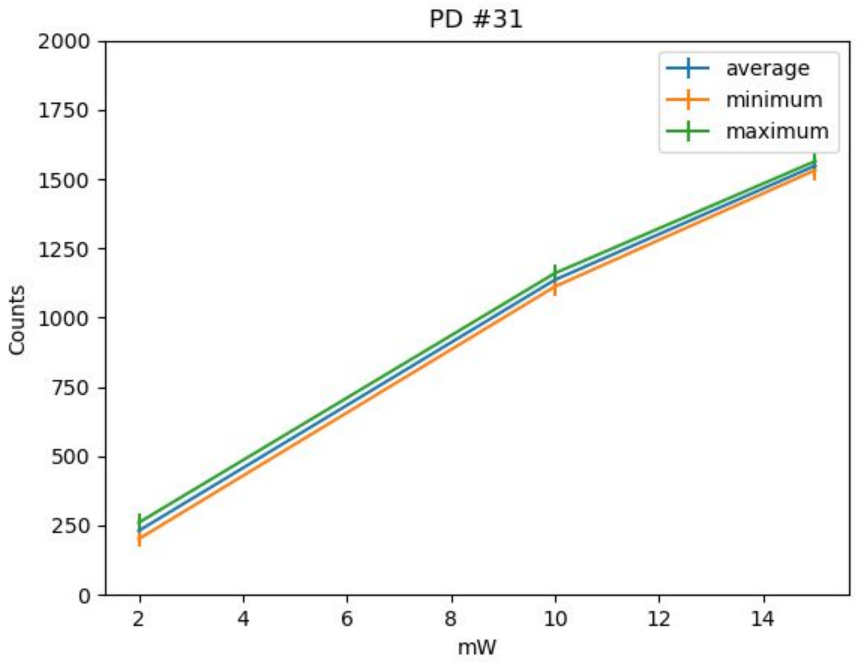

PD #24
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

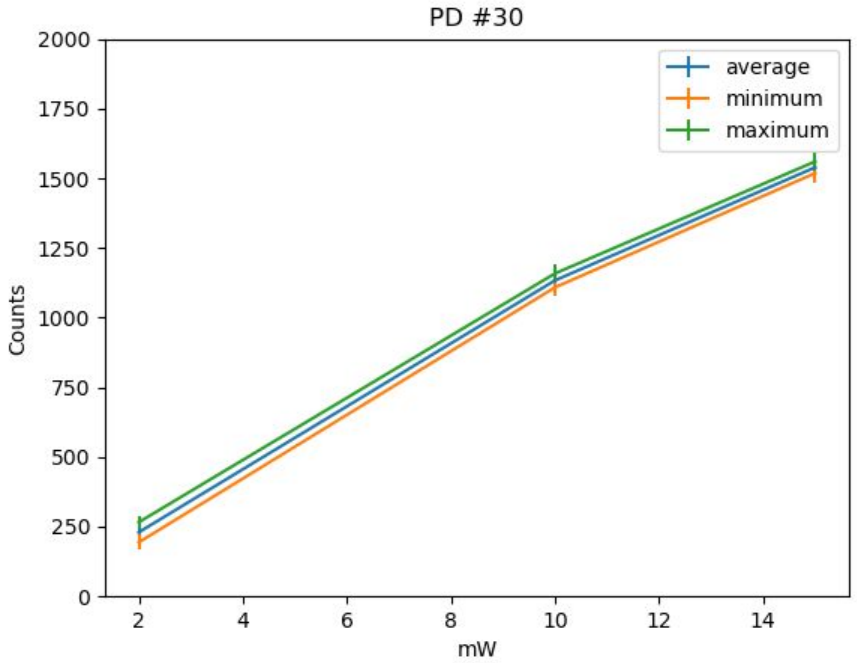

PD #27
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

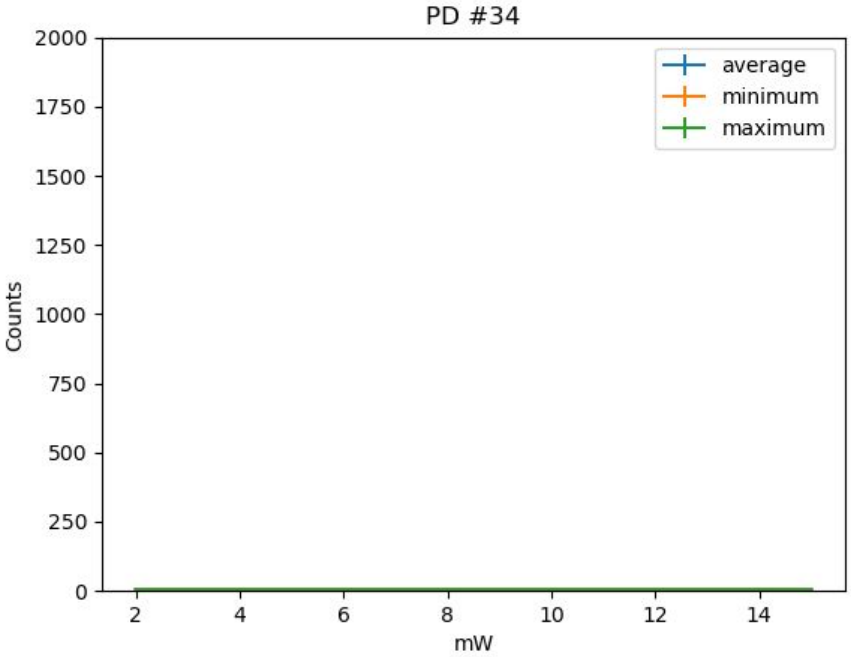

PD #26
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14


PD #29
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

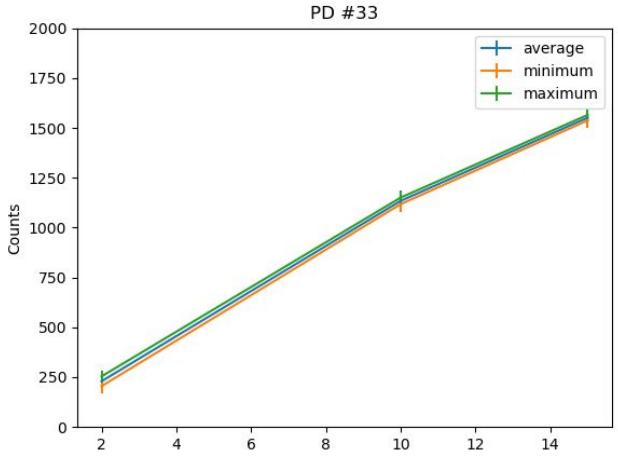

PD #28
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

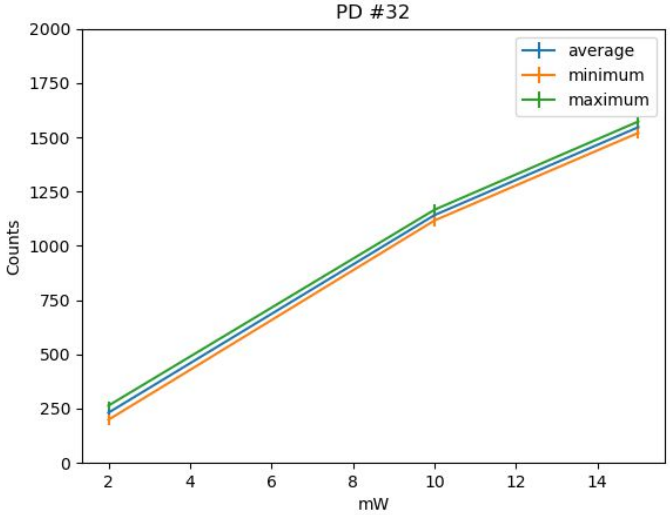

PD #31
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14


PD #30
average
minimum
maximum
Counts
mW
0
250
500
750
1000
1250
1500
1750
2000
2
4
6
8
10
12
14

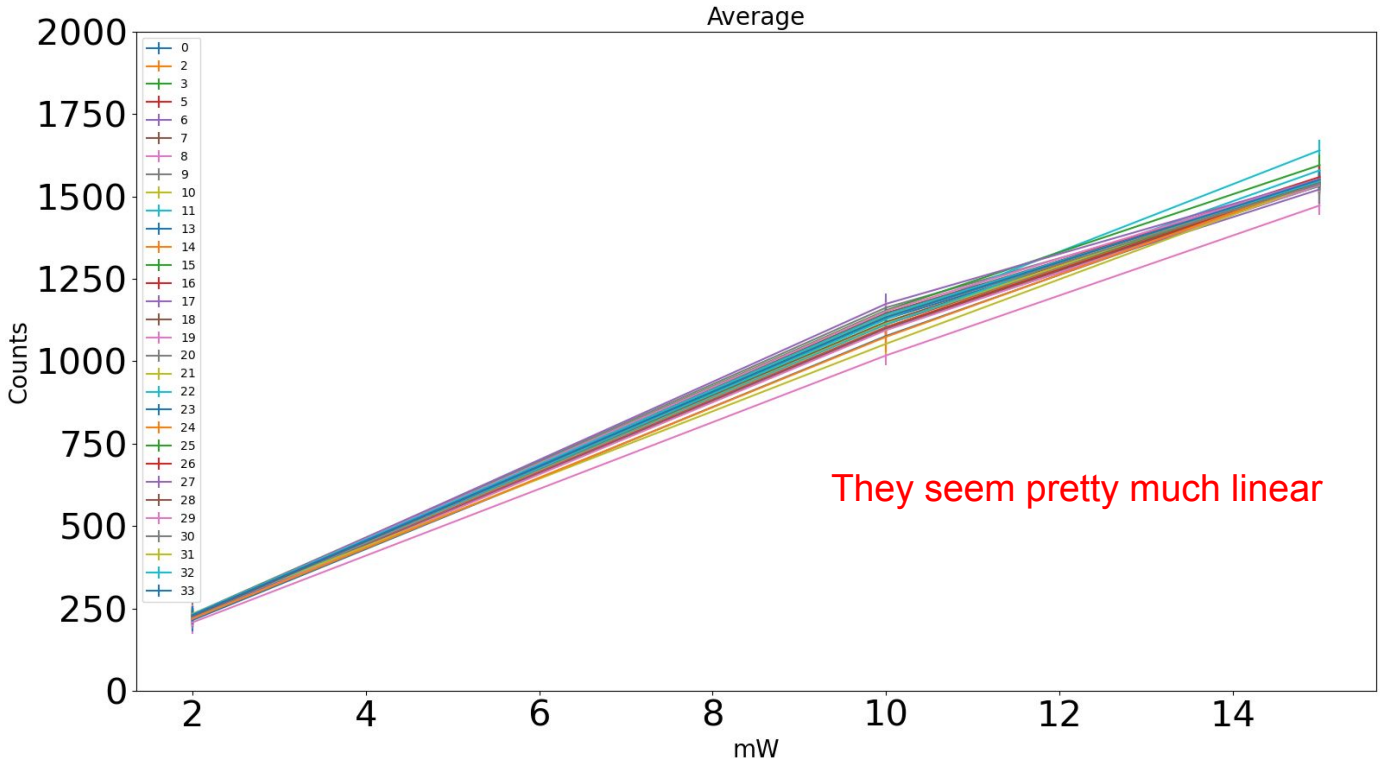


I will repeat the measurements for PD 34

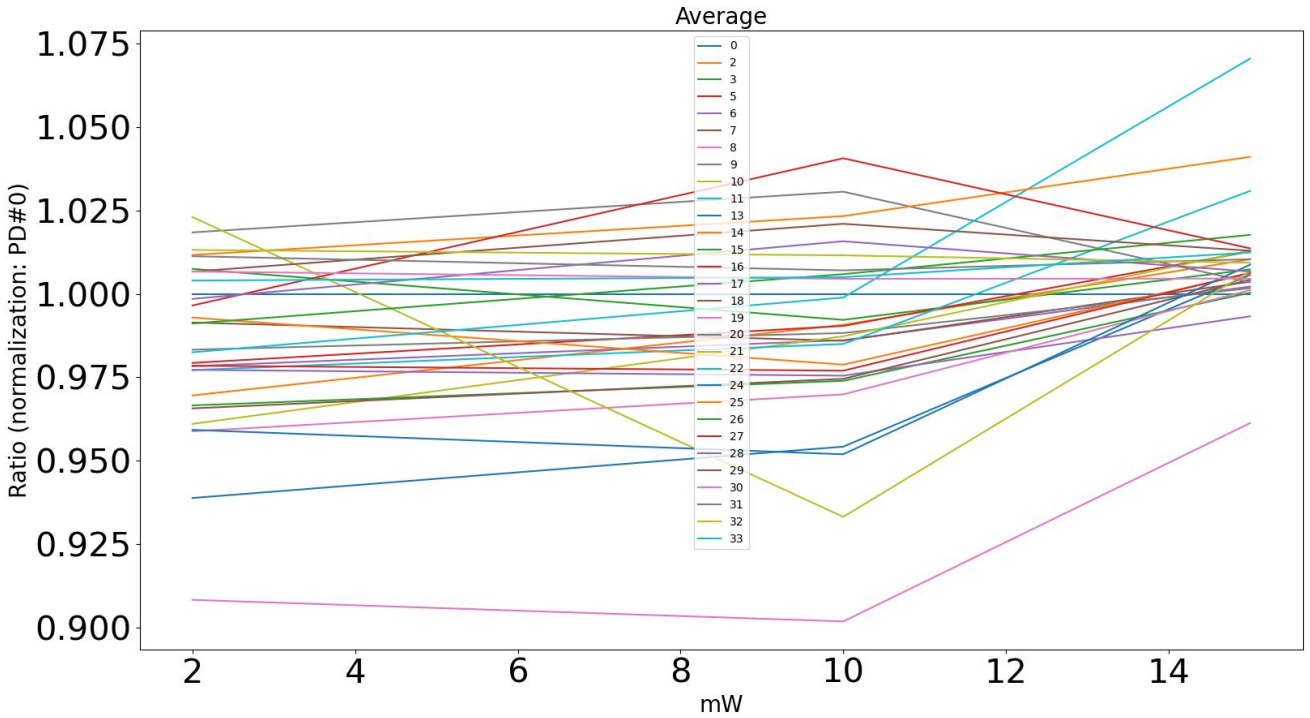




Averages of photosensors

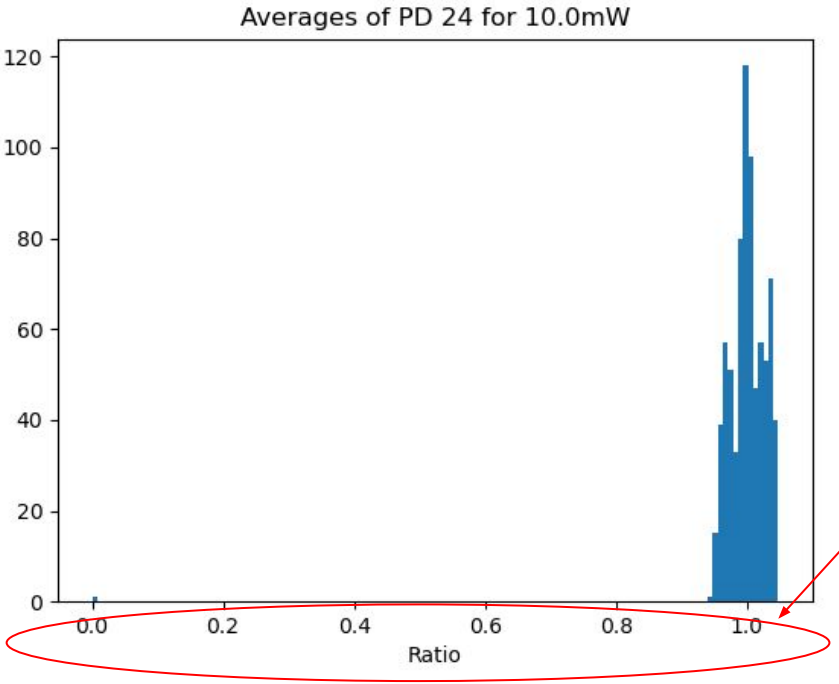


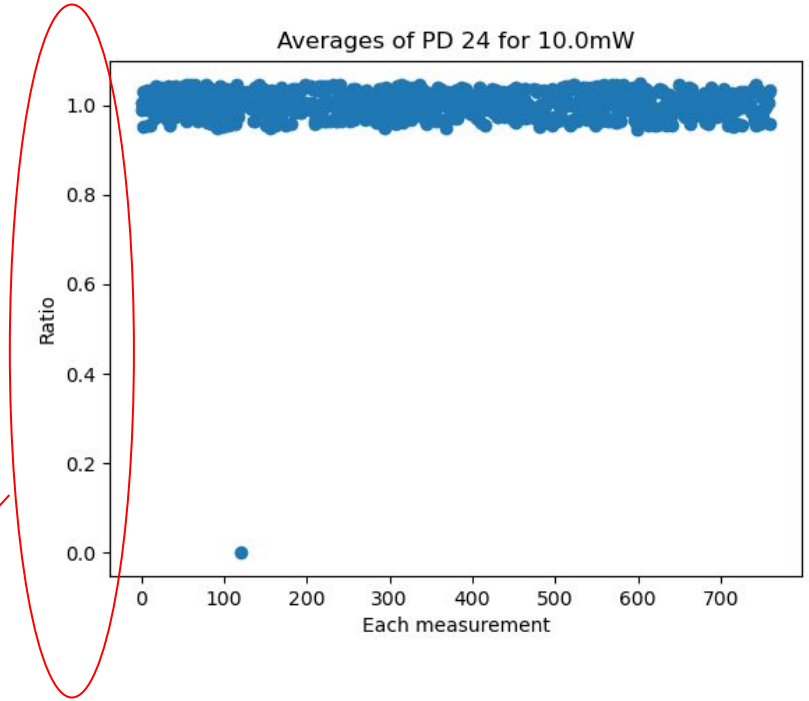
Averages of PDs normalized by the average of the PD#0



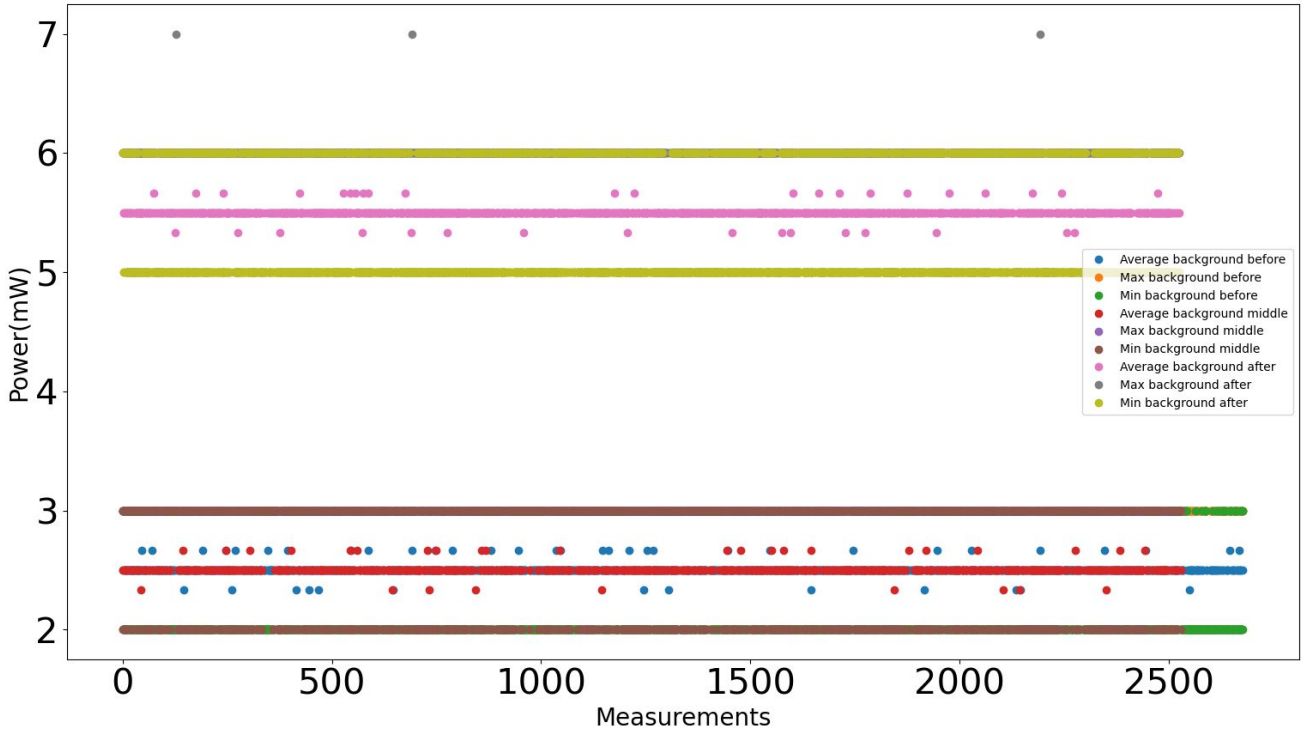
Maximum difference is of 10% (approximately the same as yesterday)

Variations of the average for **PD 24 and power 10mW**





Background


Power(mW)
Measurements
0
500
1000
1500
2000
2500
2
3
4
5
6
7
Average background before
Max background before
Min background before
Average background middle
Max background middle
Min background middle
Average background after
Max background after
Min background after