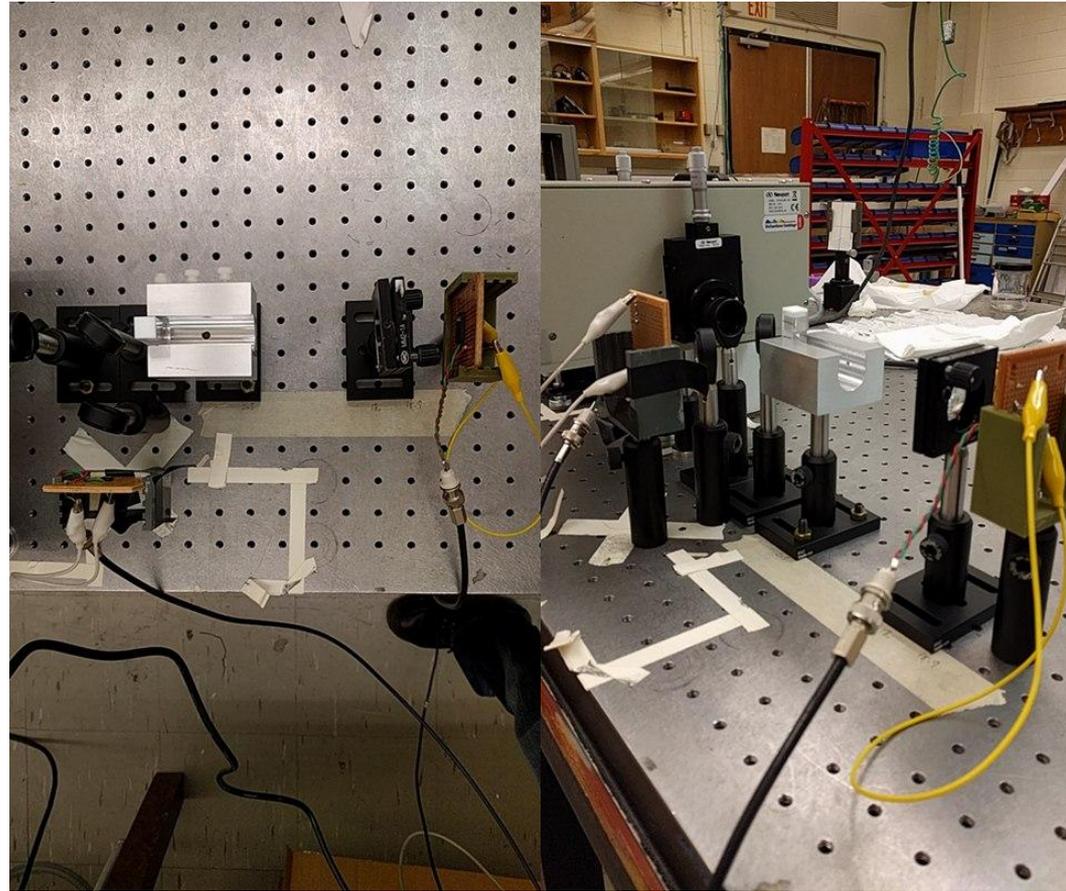


# Weekly Meeting

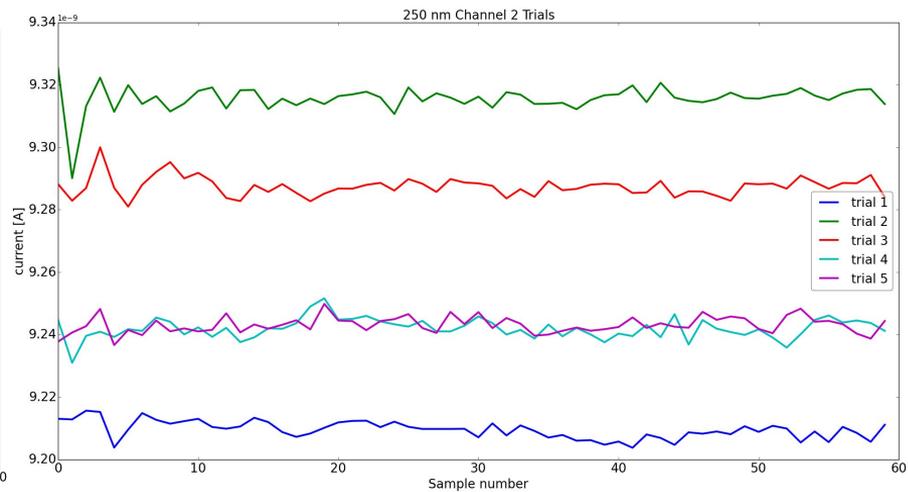
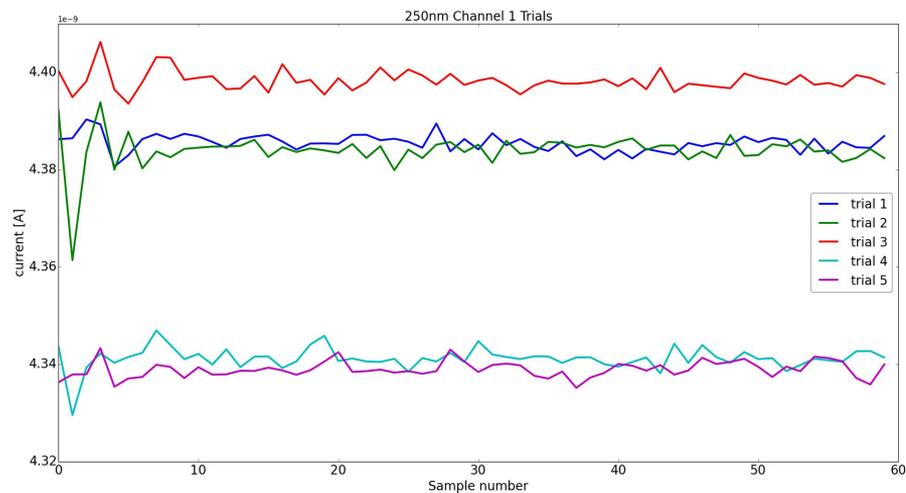
Mar 14, 2018

# Changes

- Setup
- 2 samples per second with 60 samples per trial (so 0.5s per sample)

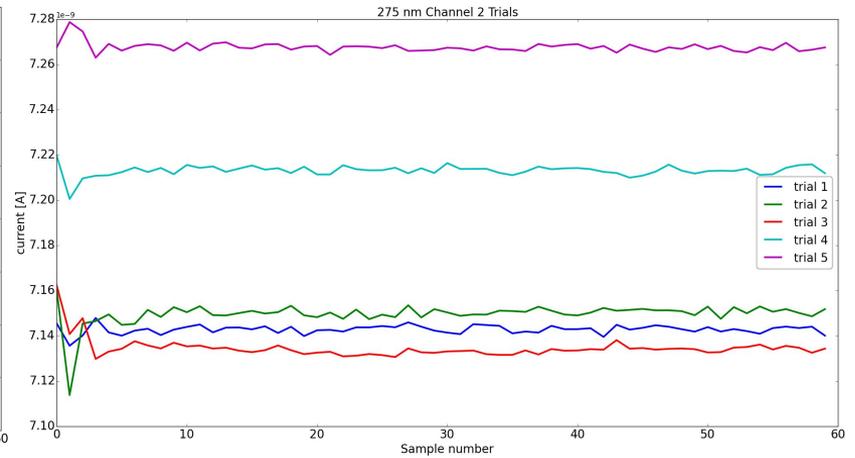
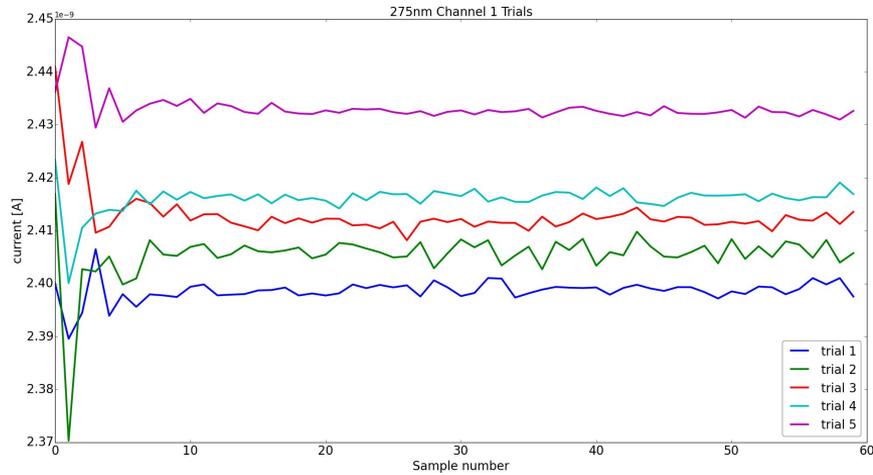


# Water 21 degrees (250nm)



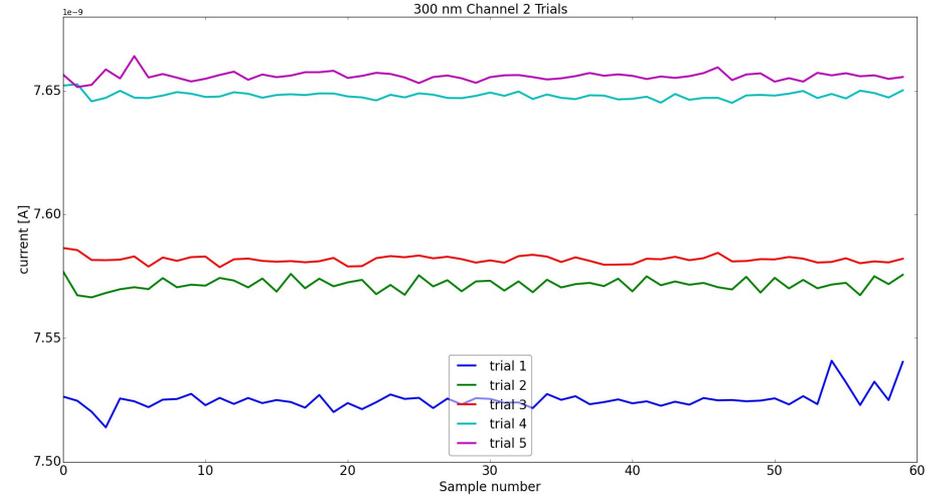
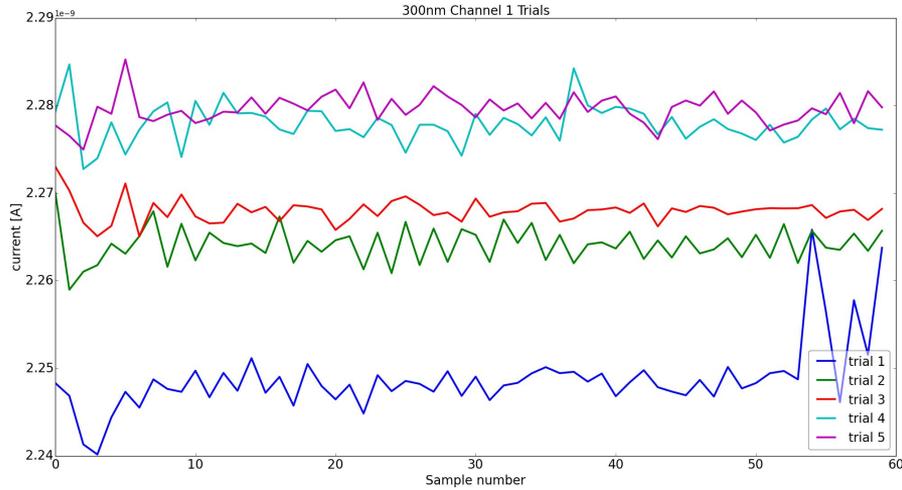
$\text{rms}(\text{channel 2}/\text{channel 1}) = 0.0116424933177$

# Water 21 degrees (275 nm)



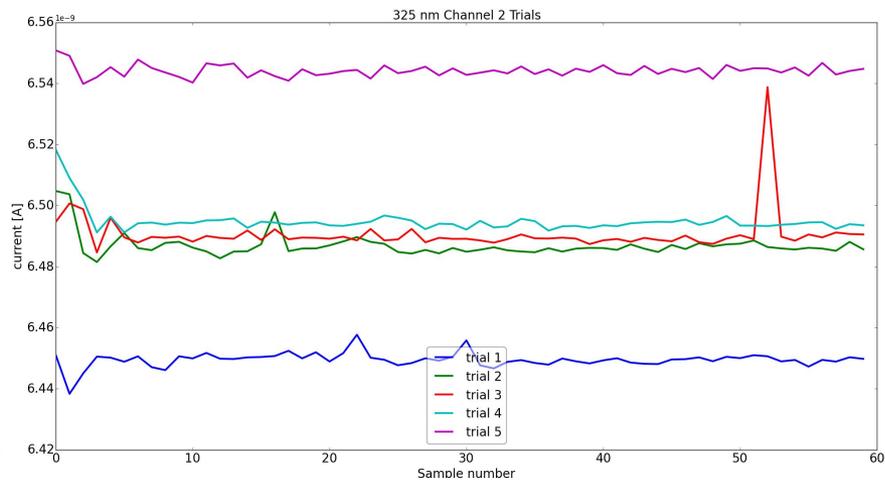
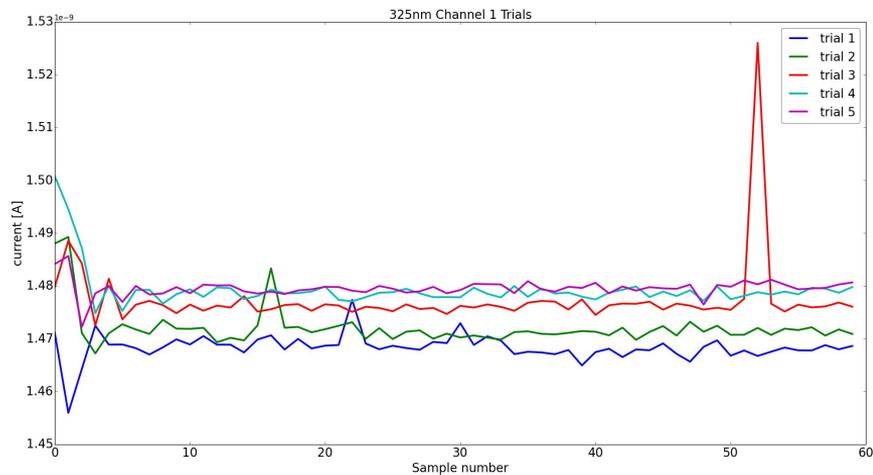
$$\text{rms}(\text{channel 2}/\text{channel 1}) = 0.0113281328543$$

# Water 21 degrees (300 nm)



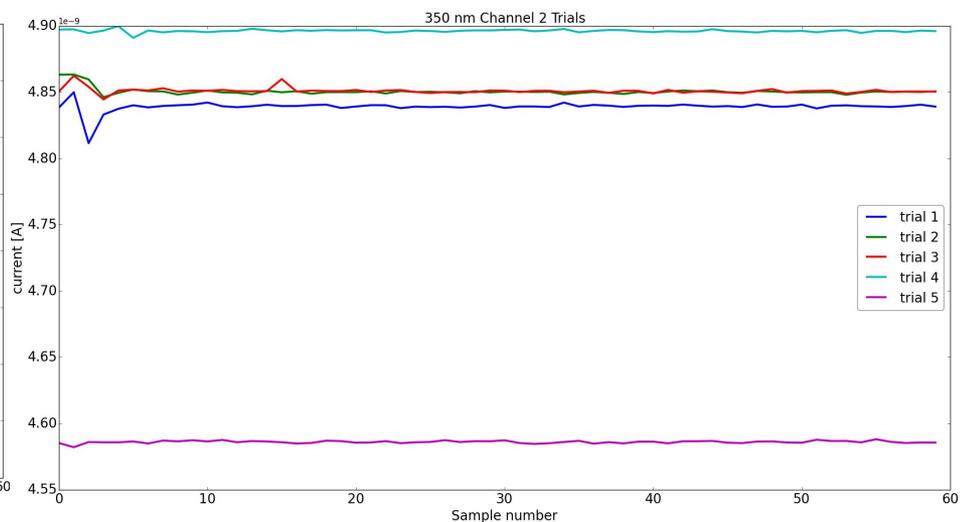
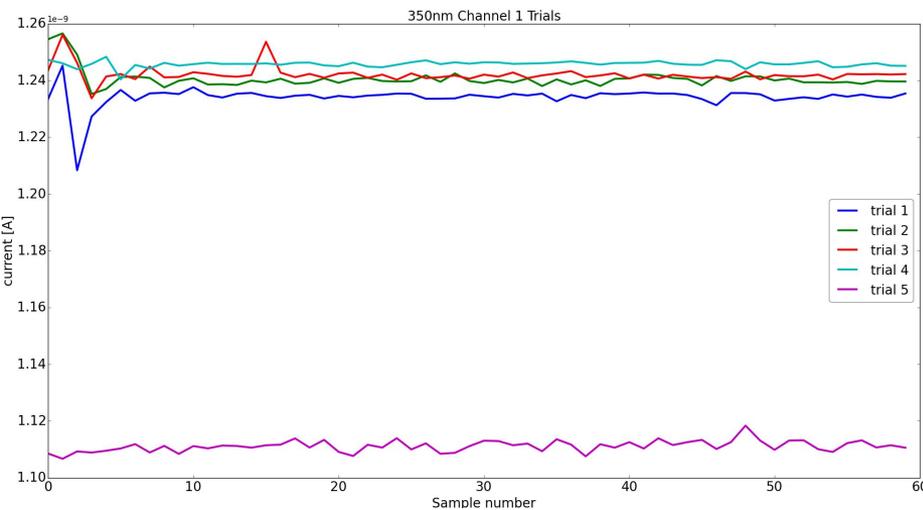
$$\text{rms}(\text{channel 2}/\text{channel 1}) = 0.00727746780335$$

# Water 21 degrees (325 nm)



$\text{rms}(\text{channel 2}/\text{channel 1}) = 0.00397738230415$

# Water 21 degrees (350 nm)



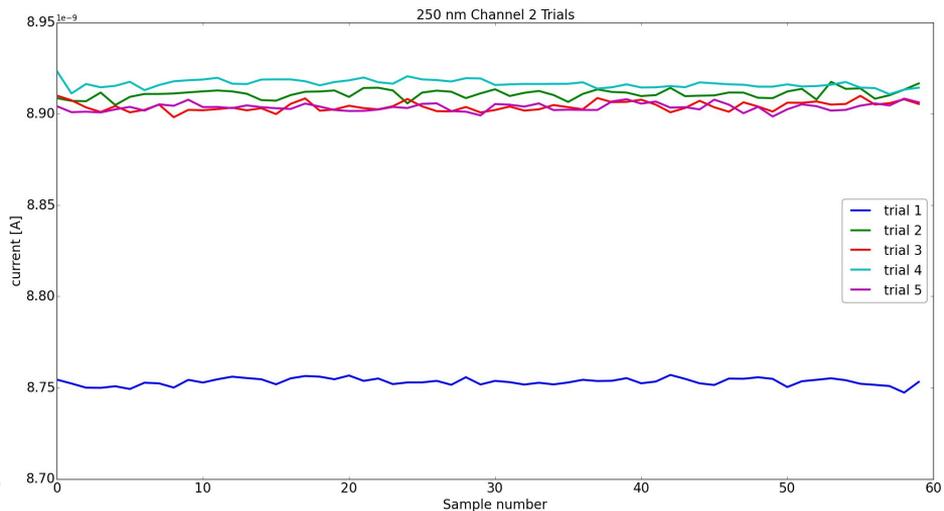
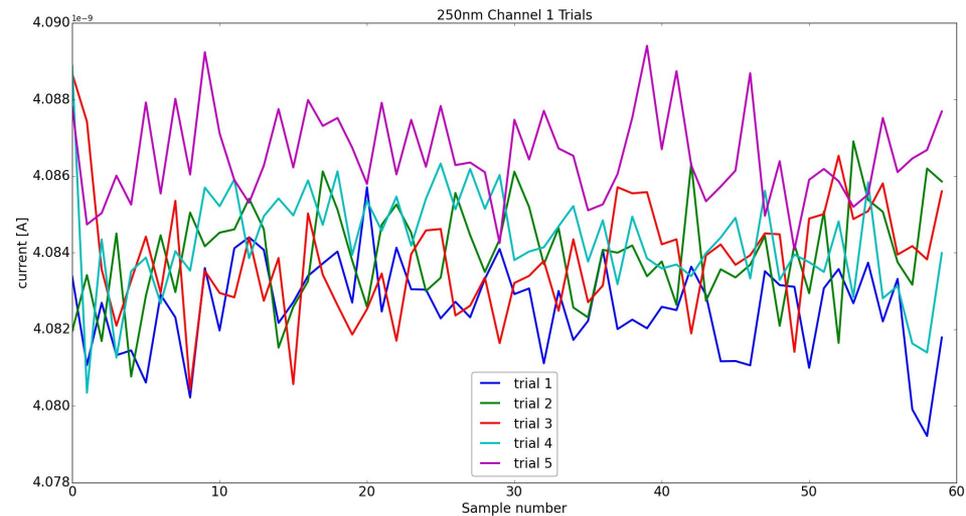
$\text{rms}(\text{channel 2}/\text{channel 1}) = 0.085018635849$

# Water 21 degrees

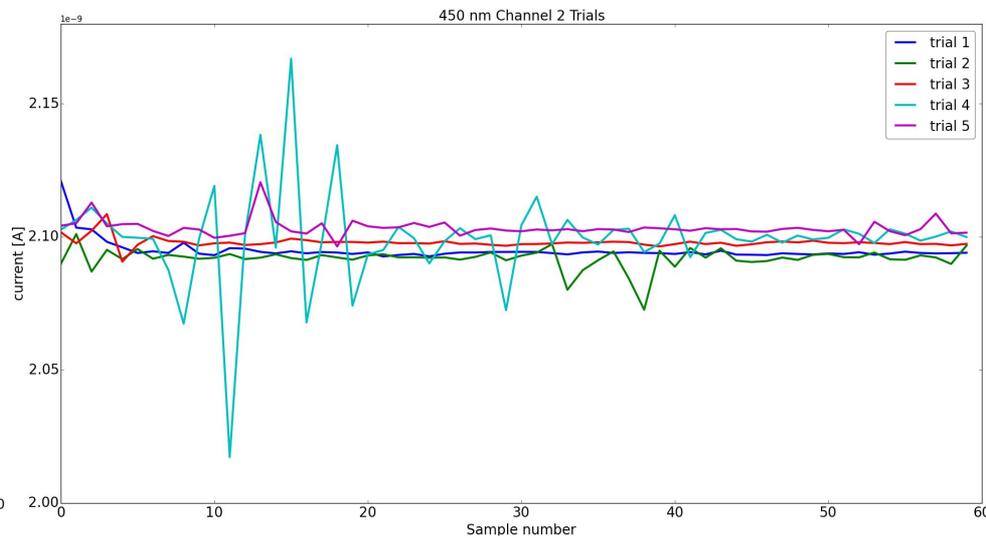
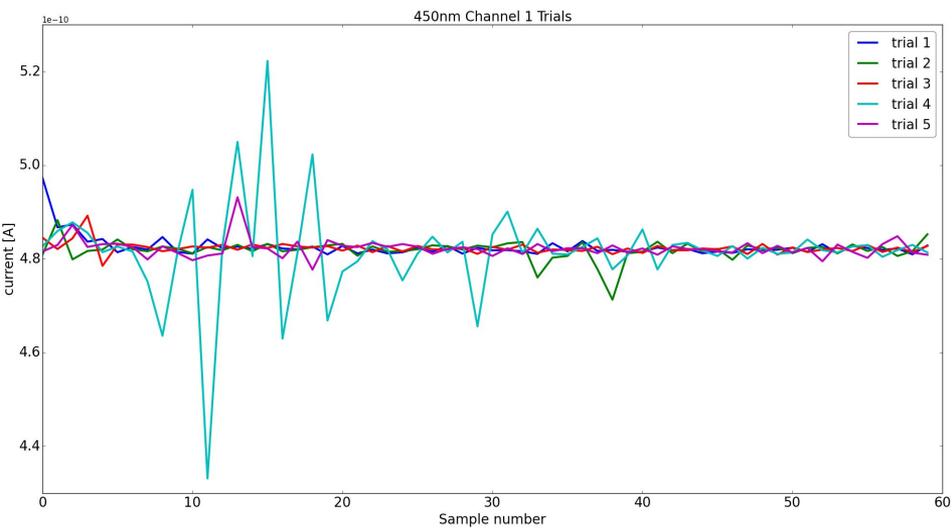
## RMS of Ch2/Ch1

```
The rms of ch2/ch1 for 250nm is 0.0116424933177  
The rms of ch2/ch1 for 275nm is 0.0113281328543  
The rms of ch2/ch1 for 300nm is 0.00727746780335  
The rms of ch2/ch1 for 325nm is 0.00397738230415  
The rms of ch2/ch1 for 350nm is 0.085018635849  
The rms of ch2/ch1 for 375nm is 0.118811703076  
The rms of ch2/ch1 for 400nm is 0.0278653399829  
The rms of ch2/ch1 for 425nm is 0.0218273776712  
The rms of ch2/ch1 for 450nm is 0.023696893654  
The rms of ch2/ch1 for 475nm is 0.0694069321597  
The rms of ch2/ch1 for 500nm is 0.0719603497653
```

# Water 21 degrees Al (250 nm)



# Water 21 degrees AI (475 nm)



# Water 21 degrees Al

- Channel 1 trials were much more concentrated than without Al for channel 1... not sure why
  - Ch1 is the one with diode with the split beam
- Rms for Ch2/Ch1

```
The rms of ch2/ch1 for 250nm is 0.0148739259092
The rms of ch2/ch1 for 275nm is 0.0183042385762
The rms of ch2/ch1 for 300nm is 0.00887255136489
The rms of ch2/ch1 for 325nm is 0.00139585157433
The rms of ch2/ch1 for 350nm is 0.00693358460425
The rms of ch2/ch1 for 375nm is 0.00456604517959
The rms of ch2/ch1 for 400nm is 0.00945805093269
The rms of ch2/ch1 for 425nm is 0.0123553200451
The rms of ch2/ch1 for 450nm is 0.0299281489639
The rms of ch2/ch1 for 475nm is 0.0893793877356
The rms of ch2/ch1 for 500nm is 0.0976917788868
```