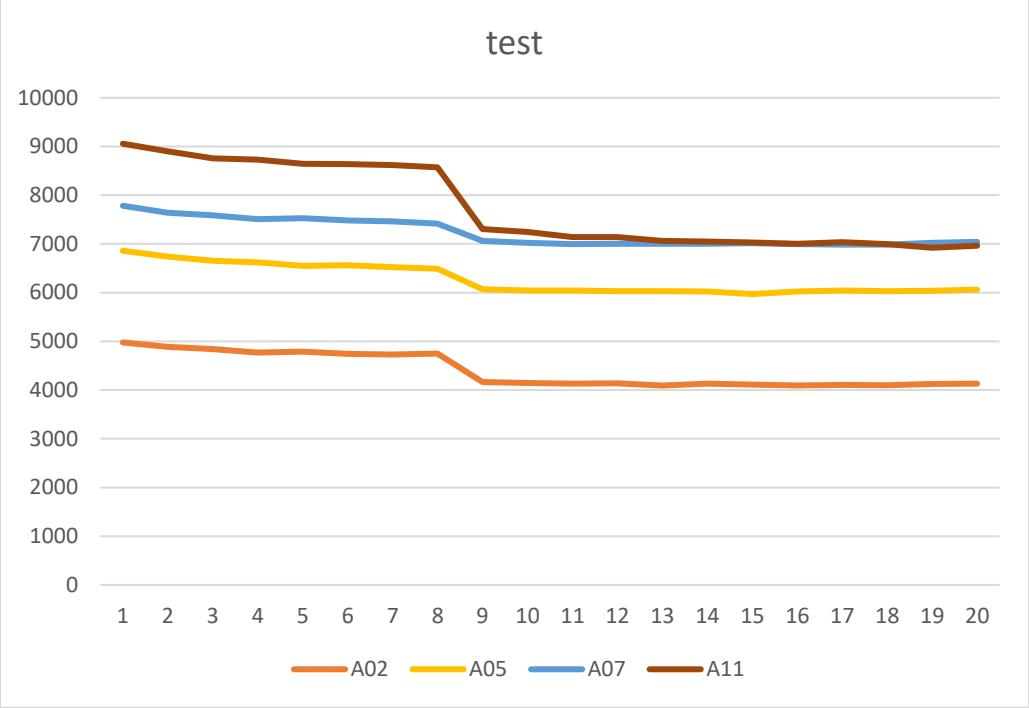
221 images from excel

#Same group different concentrations (2,3,4,5 uM ACMA)

A02,A05,A07,A11

B03, B05, B09, B11

C03, C06, C08, C11



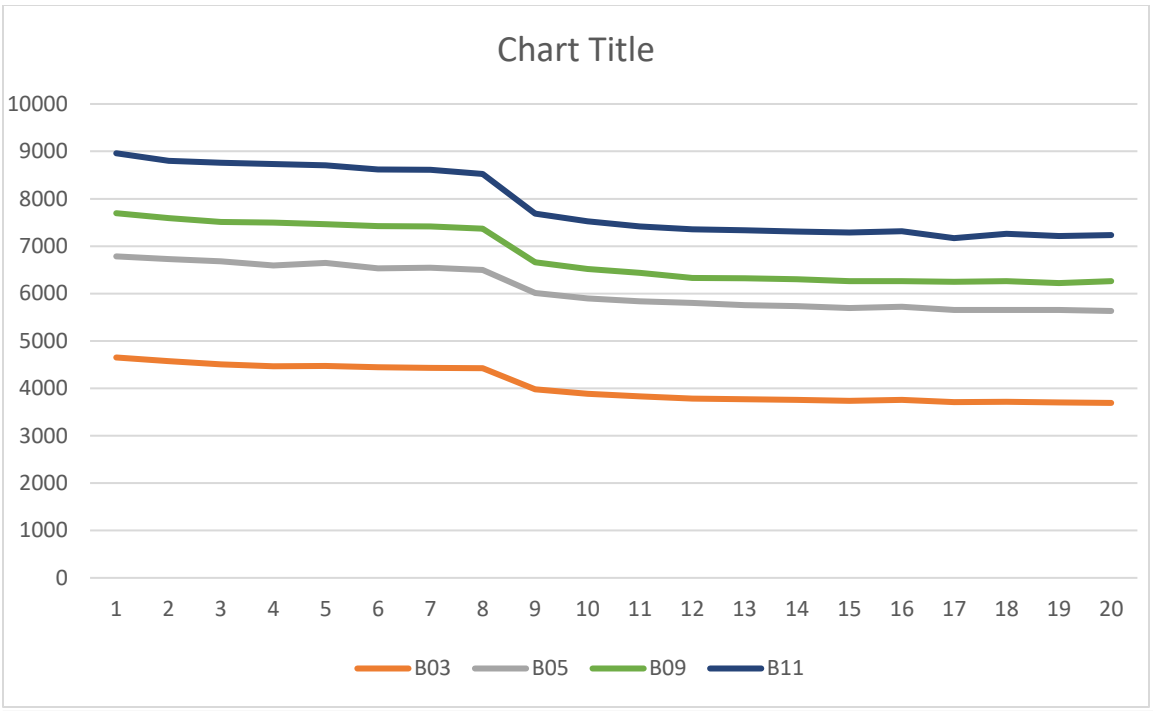


Chart Title
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
B03
B05
B09
B11

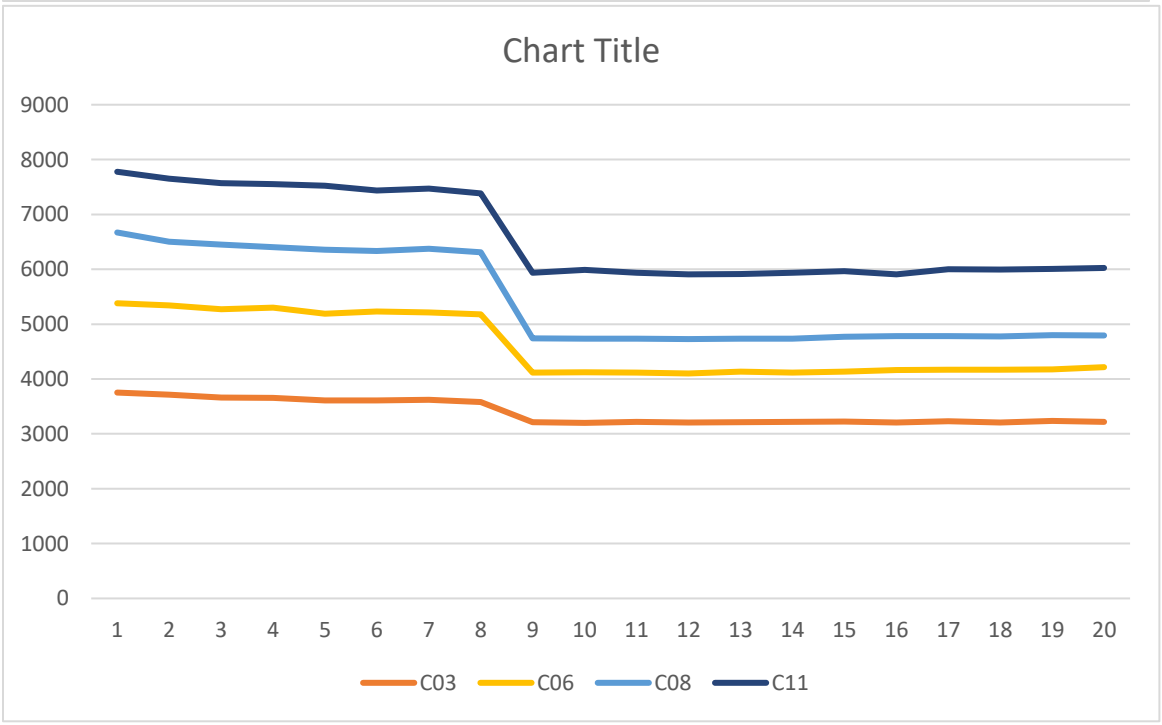
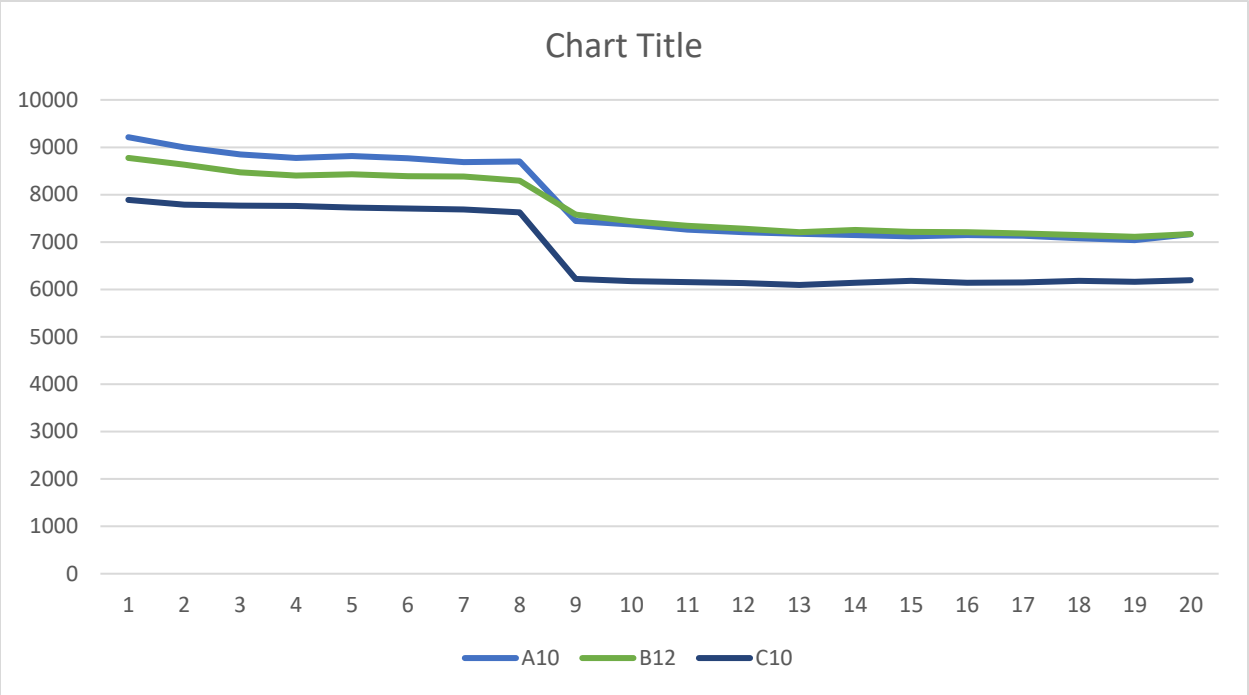
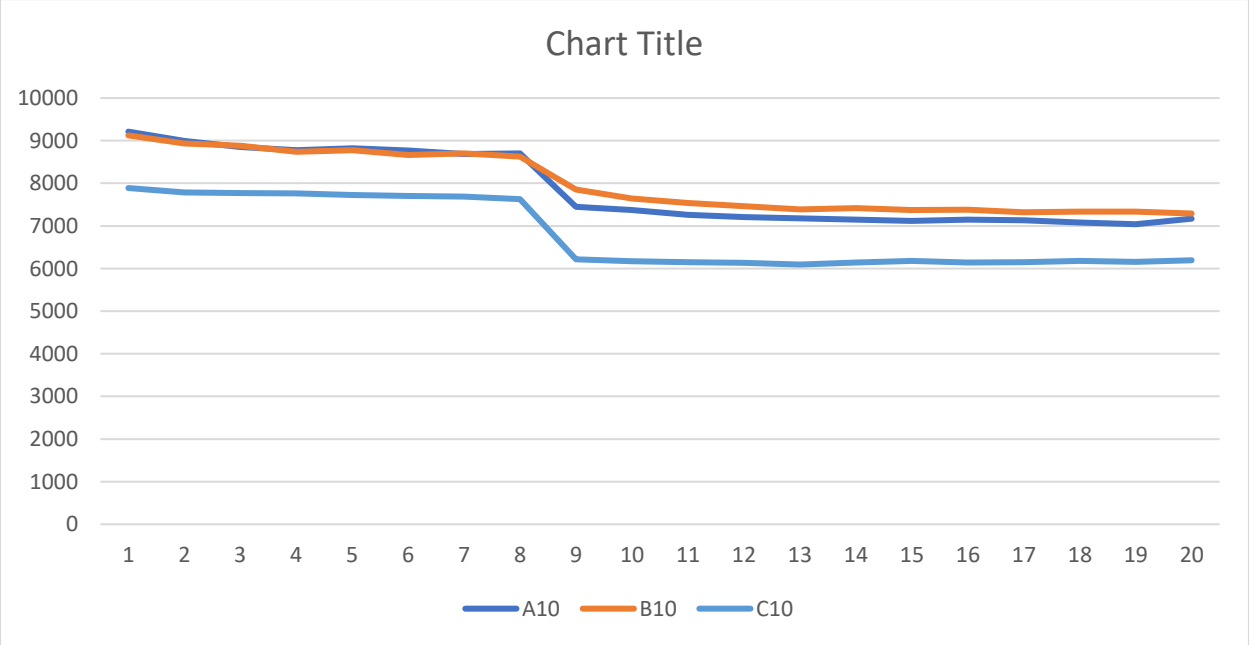


Chart Title
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
C03
C06
C08
C11

Same concentrations different group





A10,B10,C10

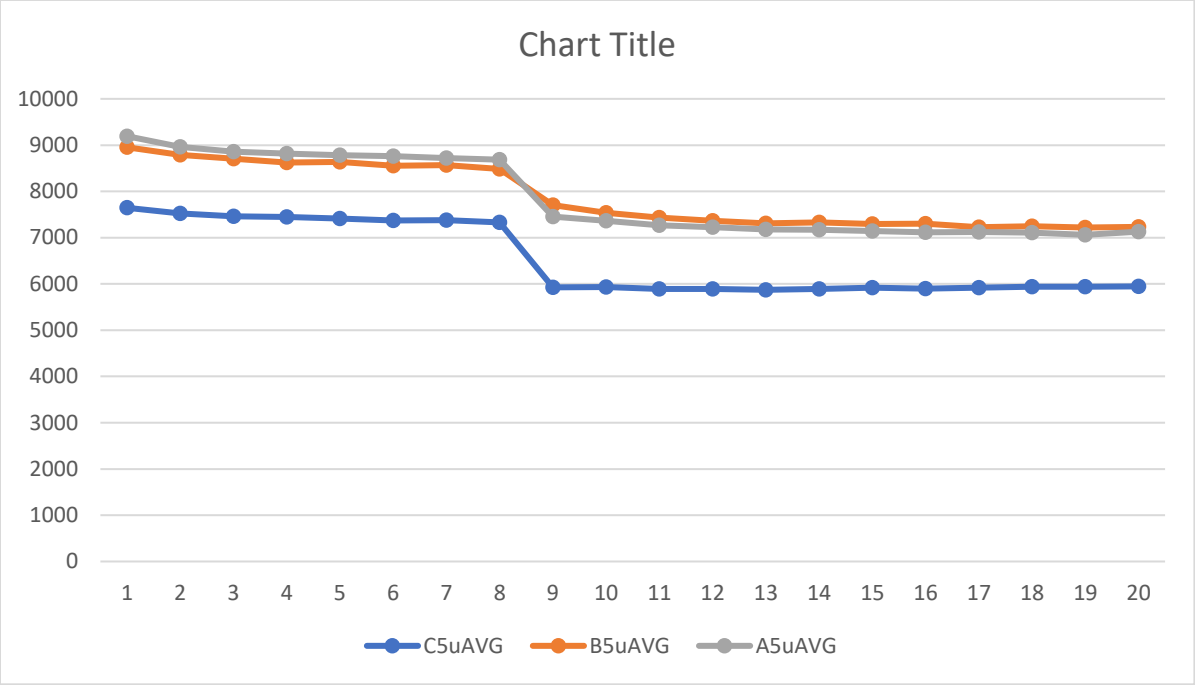
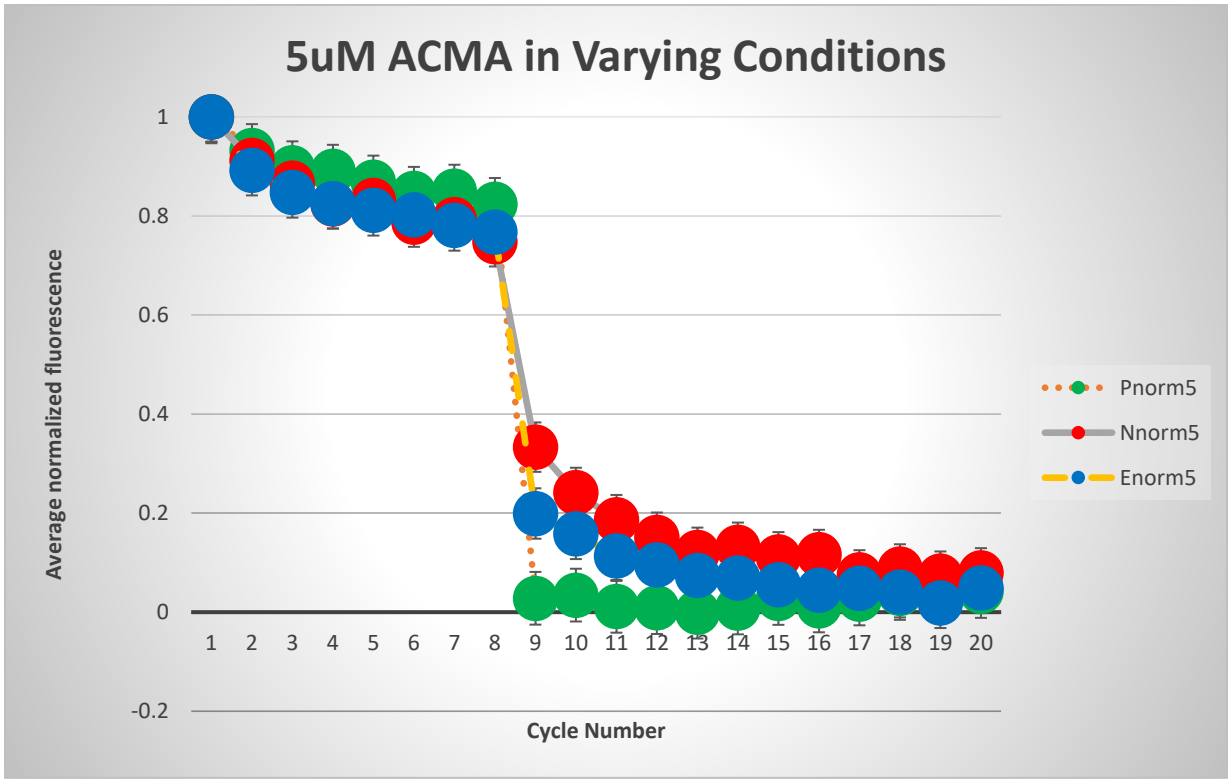
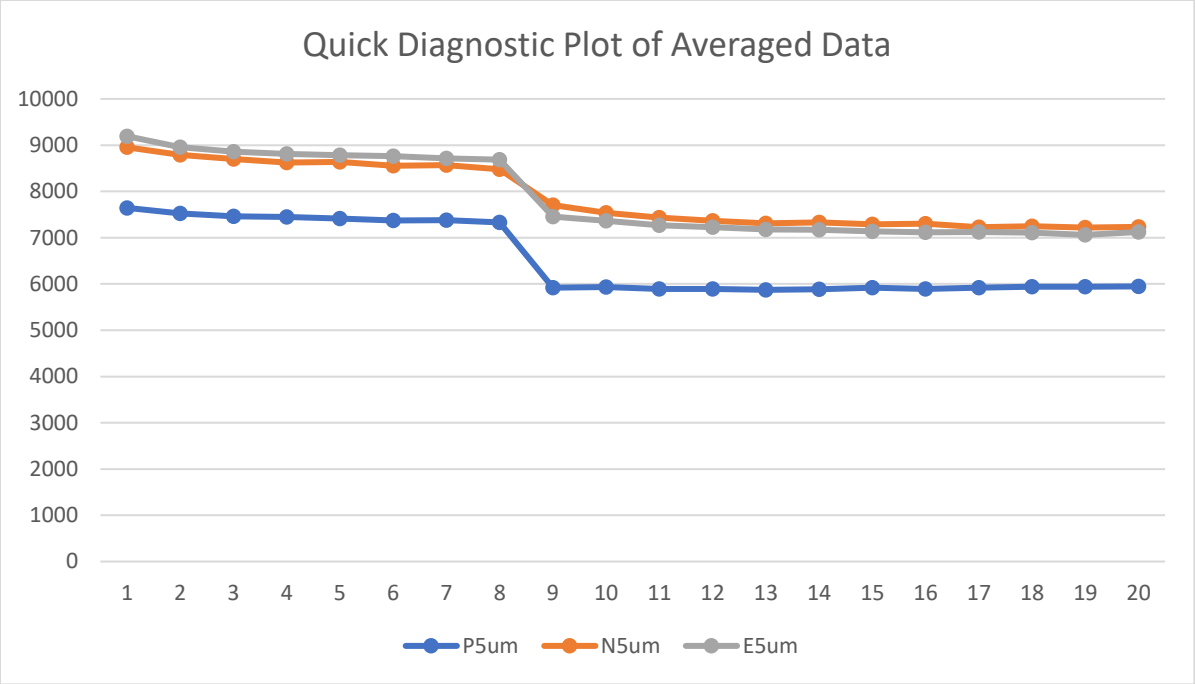
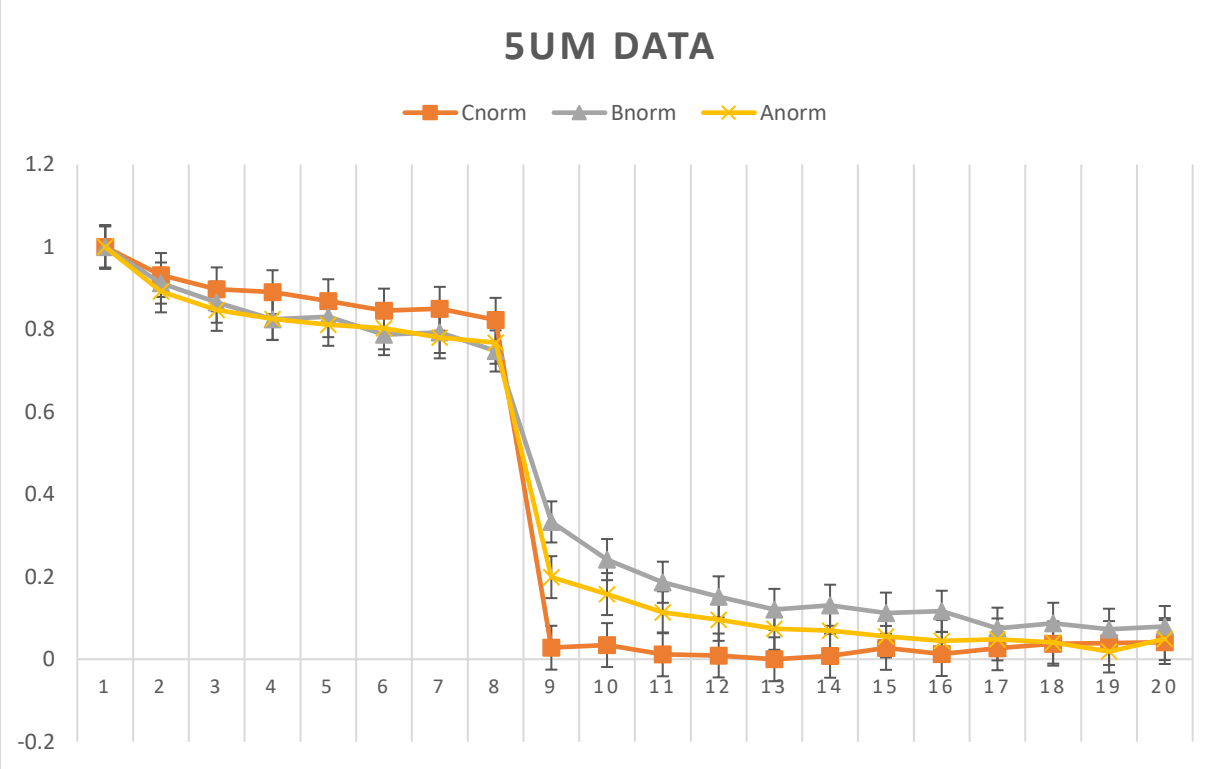


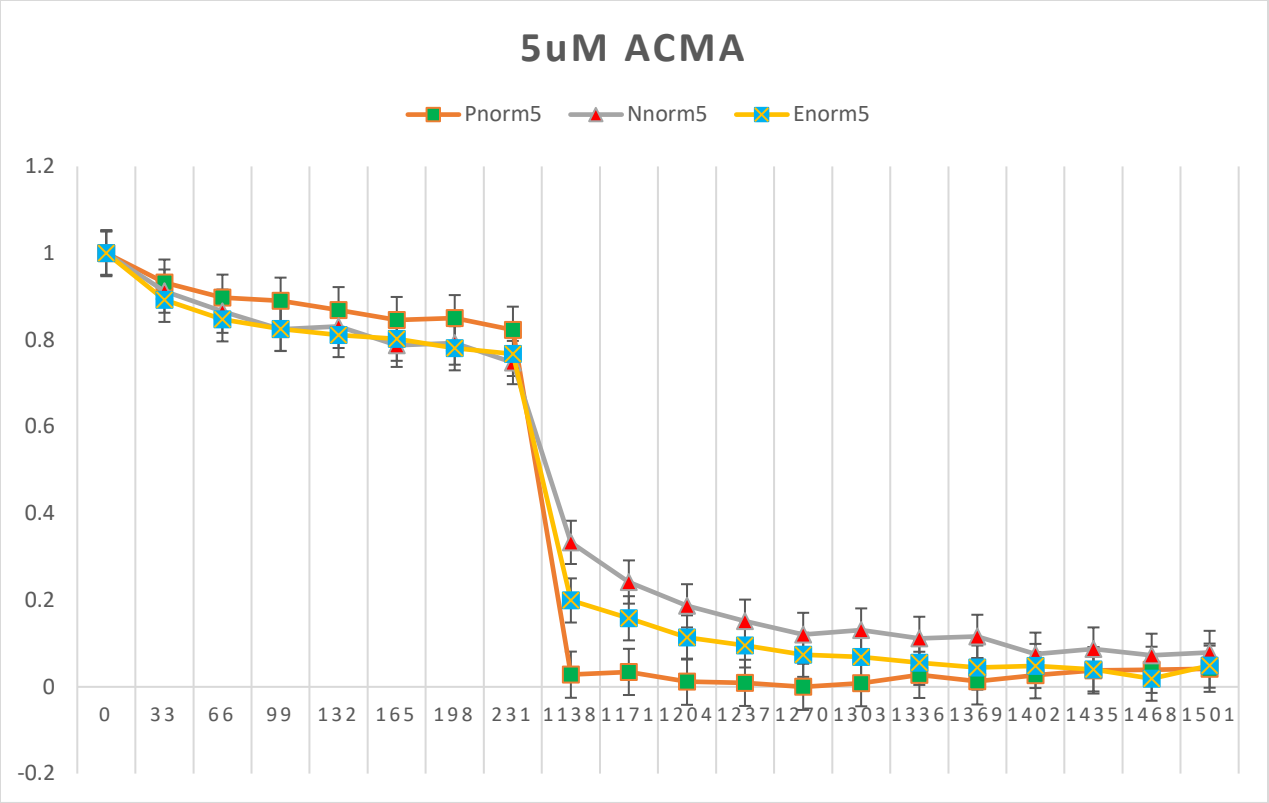
Chart Title
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
C5uAVG
B5uAVG
A5uAVG

Average Normalized fluor for same concentration (5uM) and different groups




Quick Diagnostic Plot of Averaged Data
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
P5um
N5um
E5um

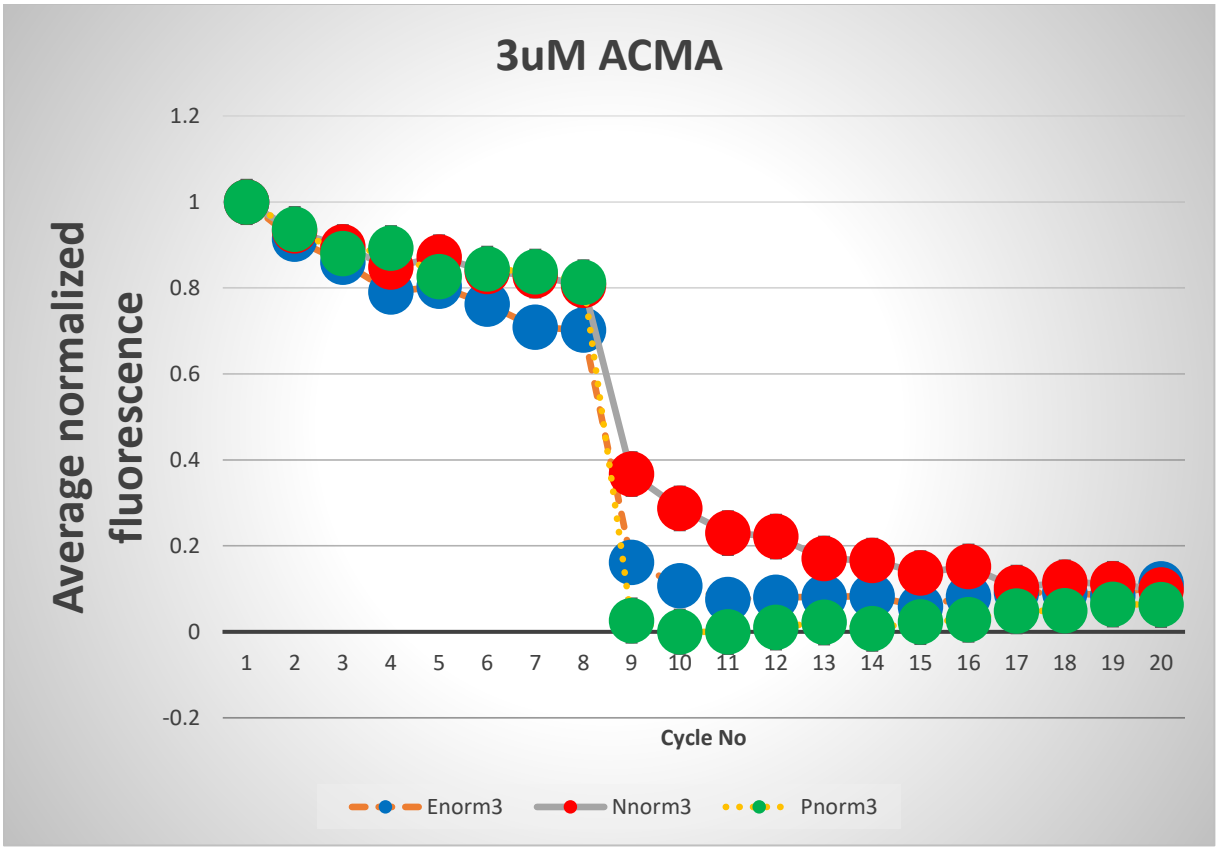

5UM DATA
Cnorm
Bnorm
Anorm
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



Positive Control= Value+-SEM (0.05325)

Negative Control=Value+-SEM(0.049876)

Experiment=Value+-SEM(0.05091)



E =value +- sem 0.047958

Nc =value +- sem 0.050838

Pc =value +- sem 0.05148

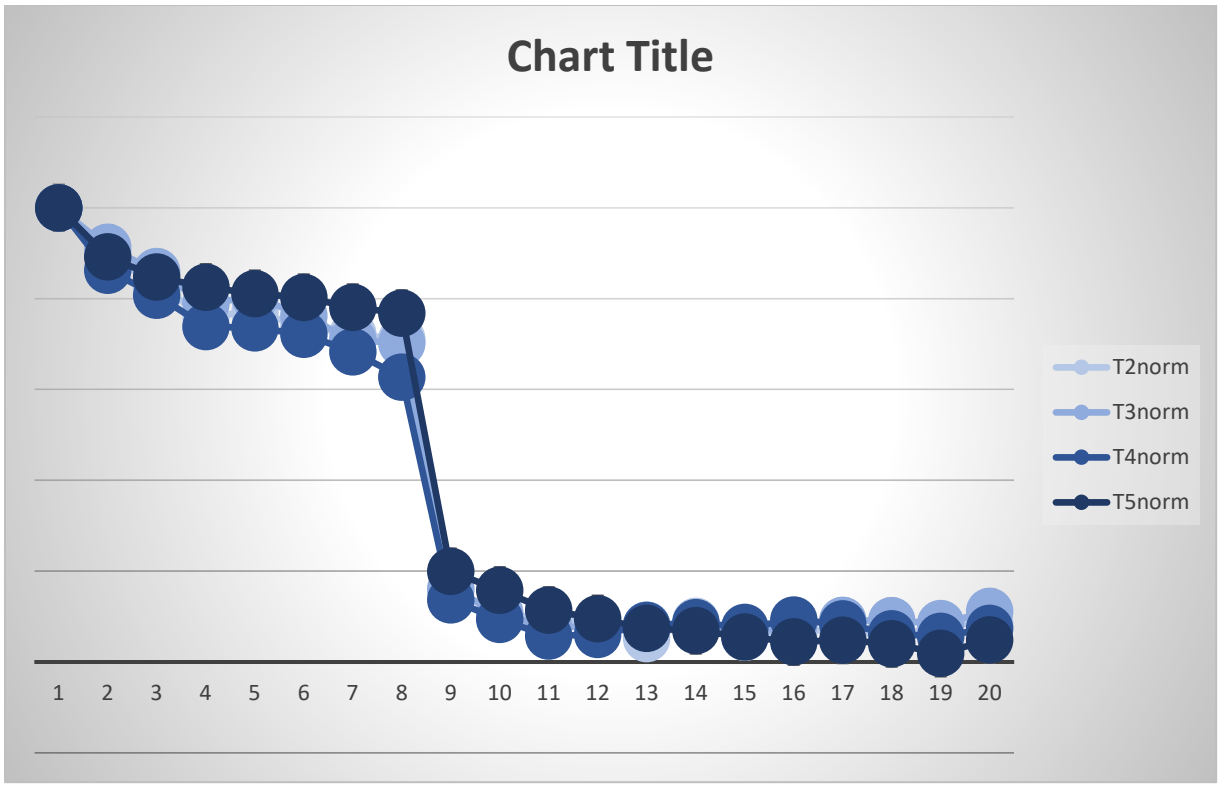
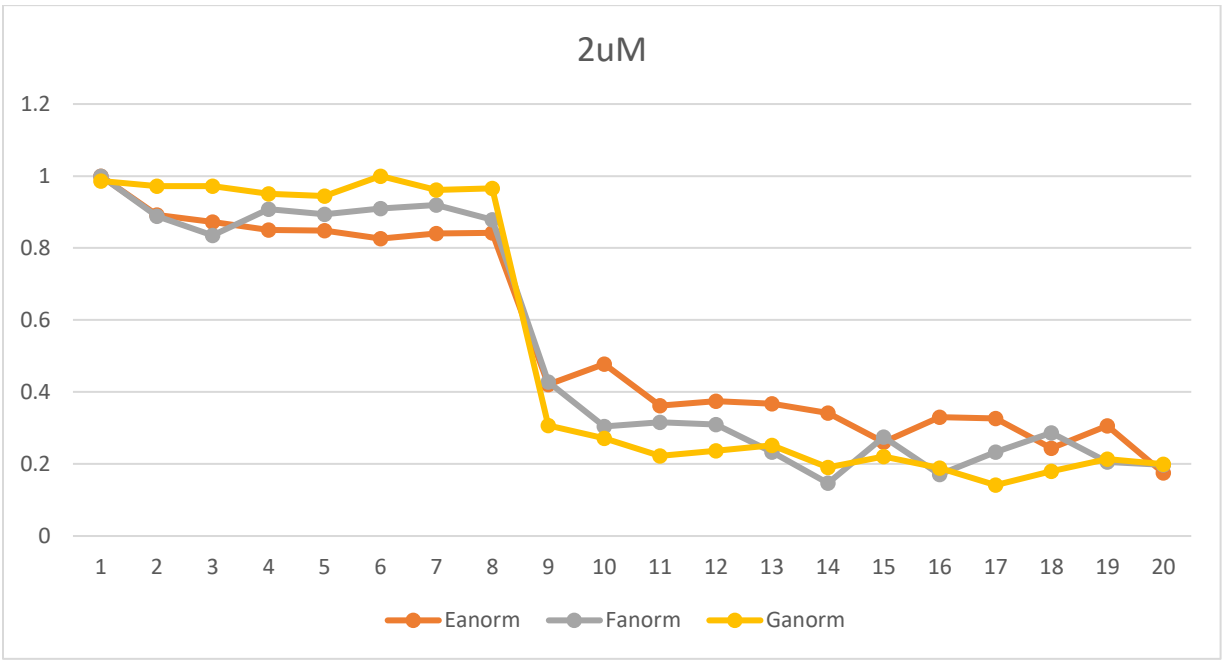
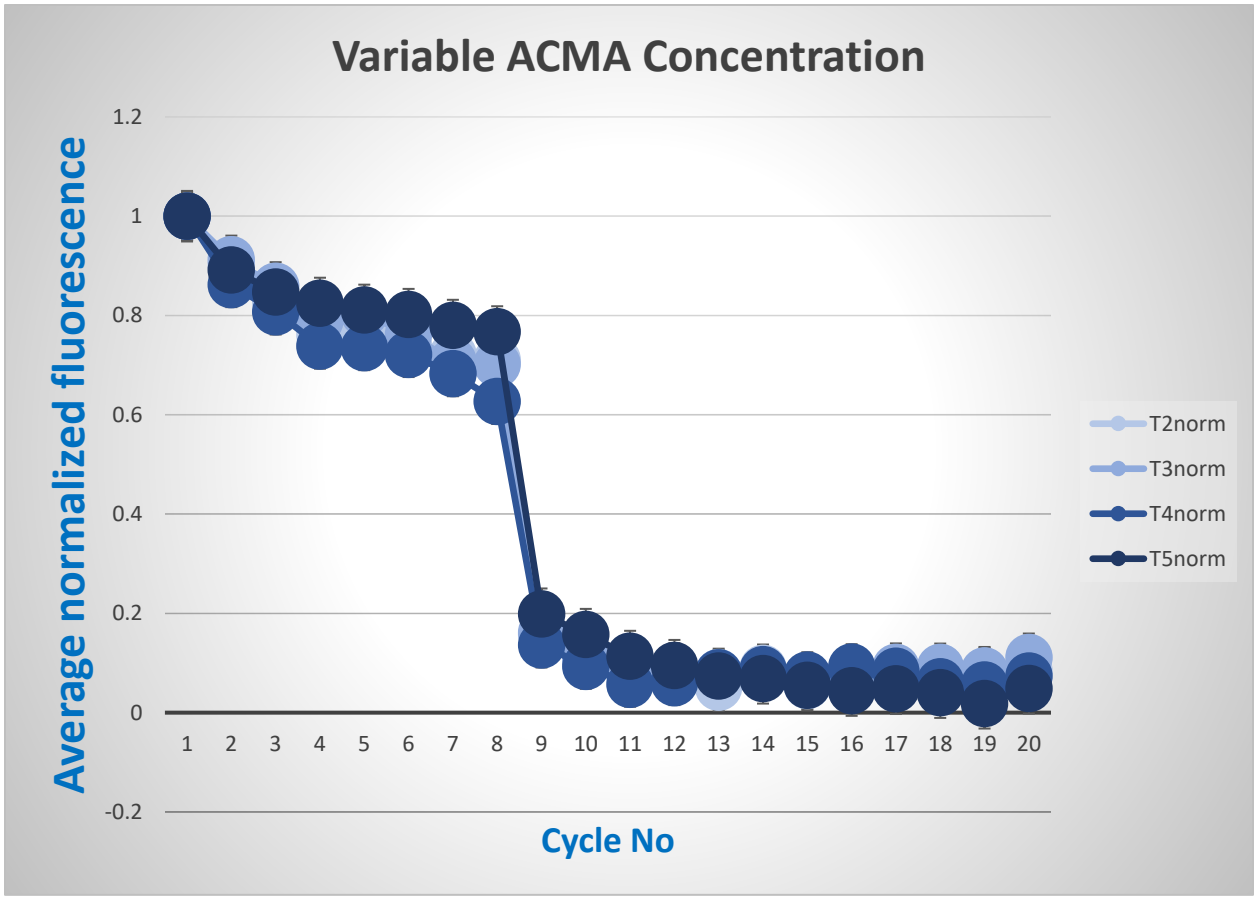
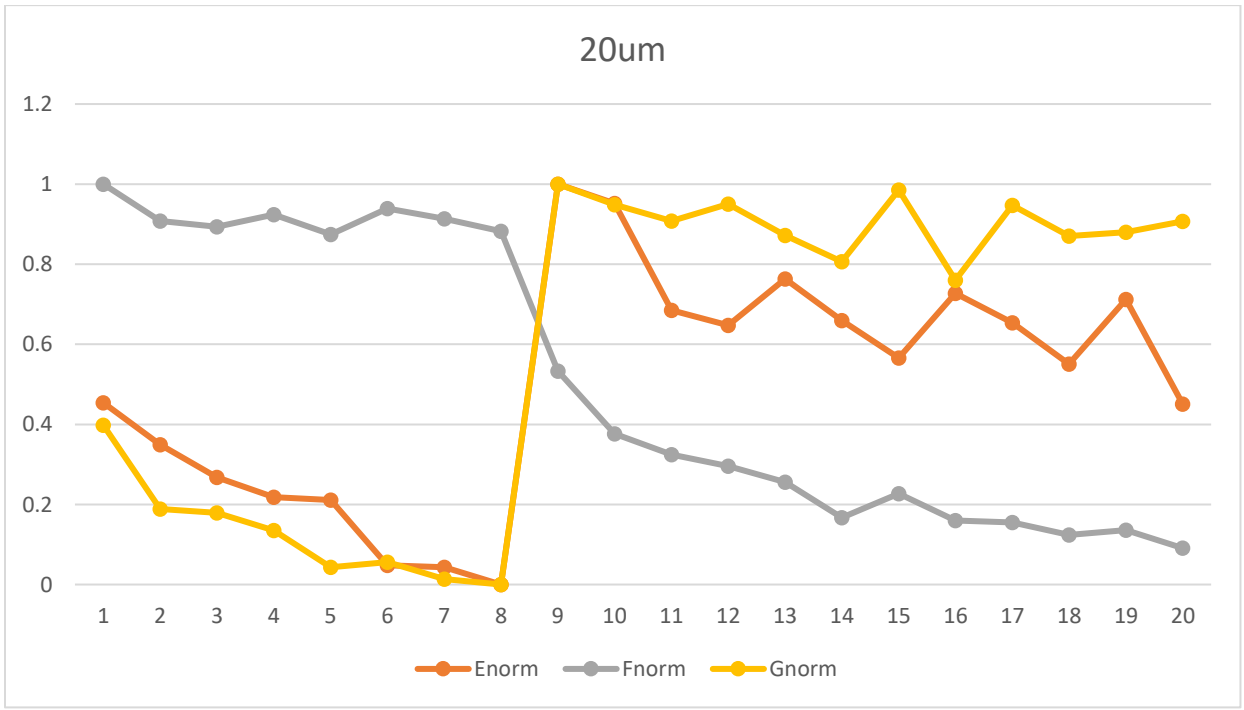


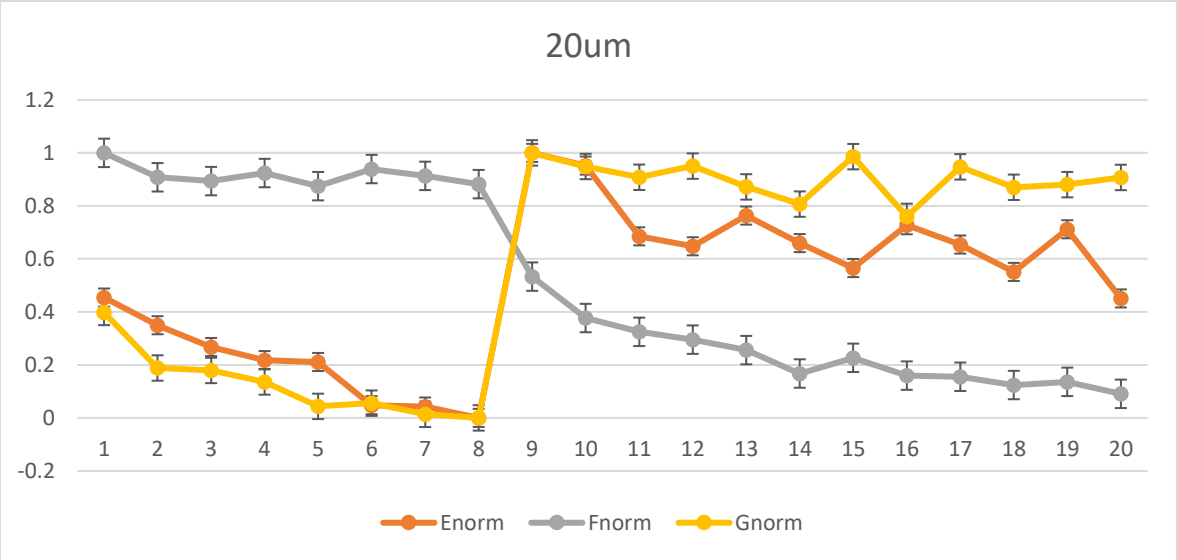
Chart Title
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
T2norm
T3norm
T4norm
T5norm

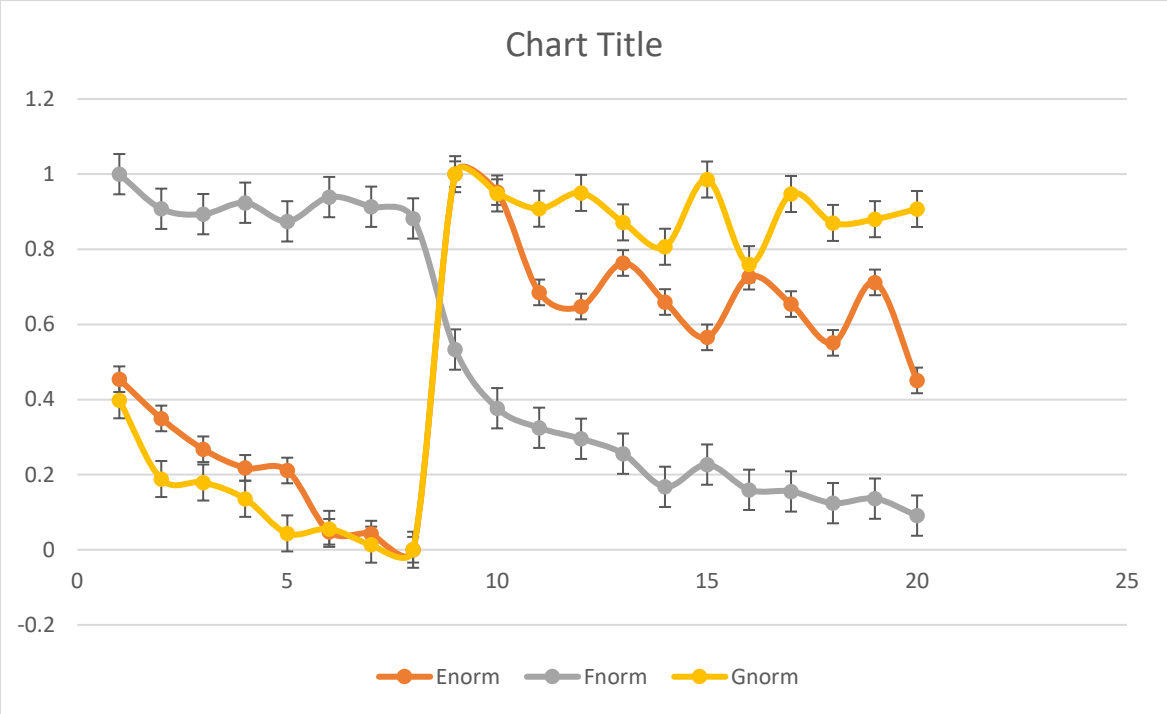

2uM
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Eanorm
Fanorm
Ganorm


Variable ACMA Concentration
Average normalized fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Cycle No
T2norm
T3norm
T4norm
T5norm


20um
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Enorm
Fnorm
Gnorm

Normalization of noisy data is potentially a bad thing to do.





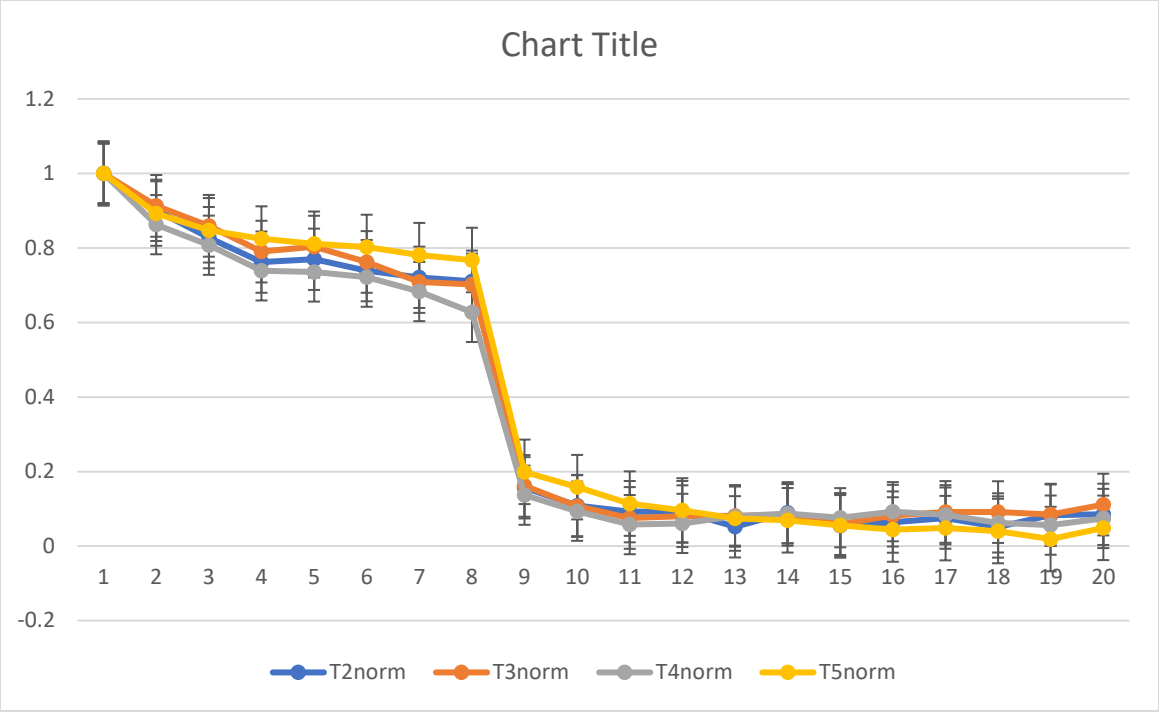
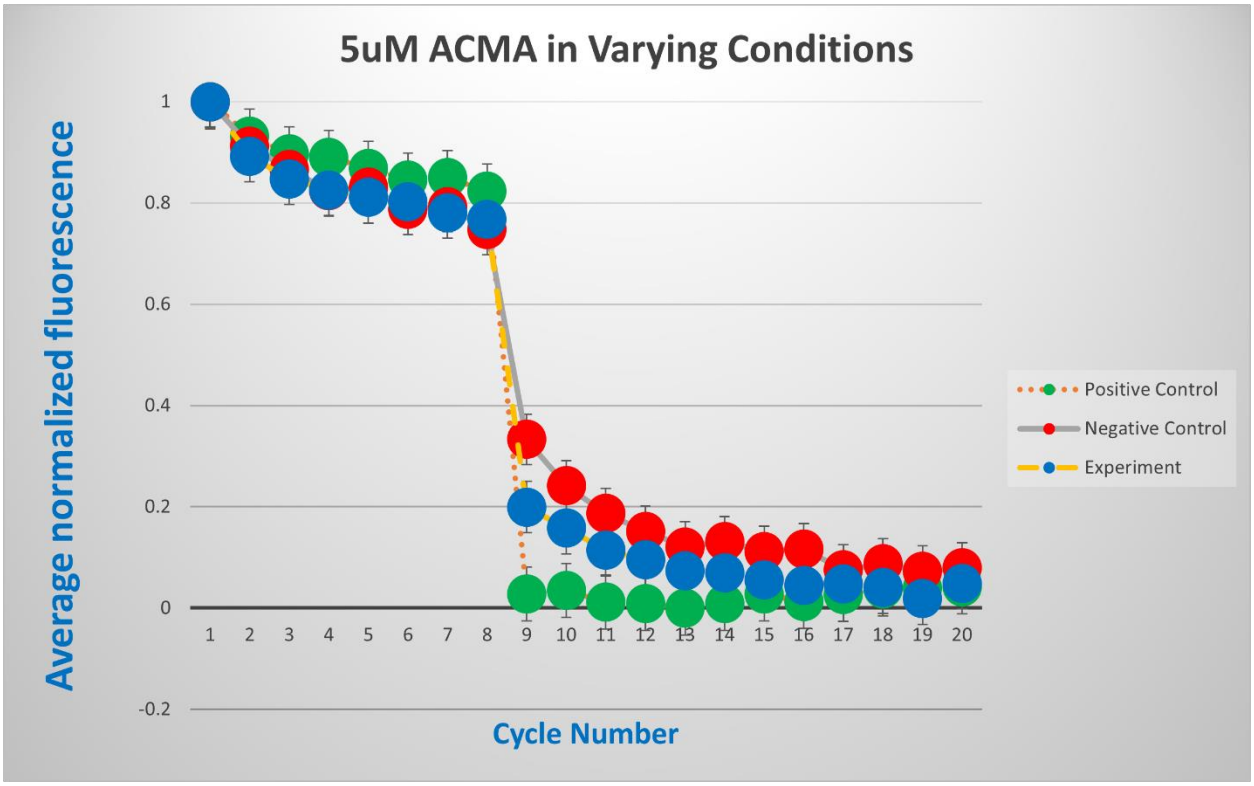


Chart Title
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
T2norm
T3norm
T4norm
T5norm


5uM ACMA in Varying Conditions
Average normalized fluorescence
1
0.8
0.6
0.4
0.2
0
-0.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Cycle Number
Positive Control
Negative Control
Experiment

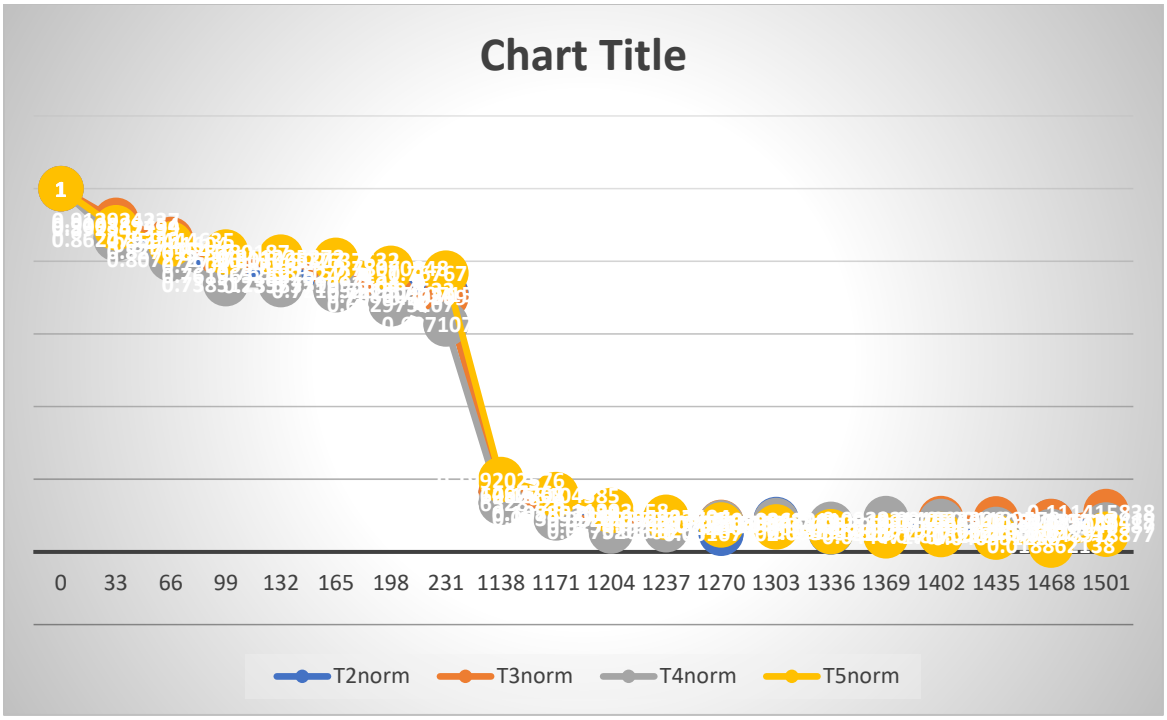
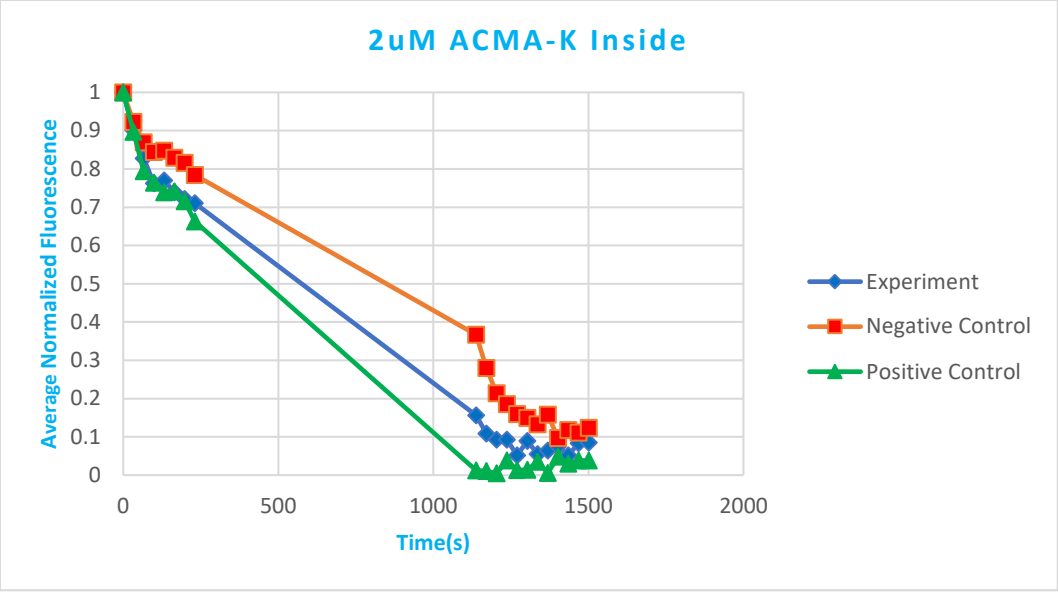
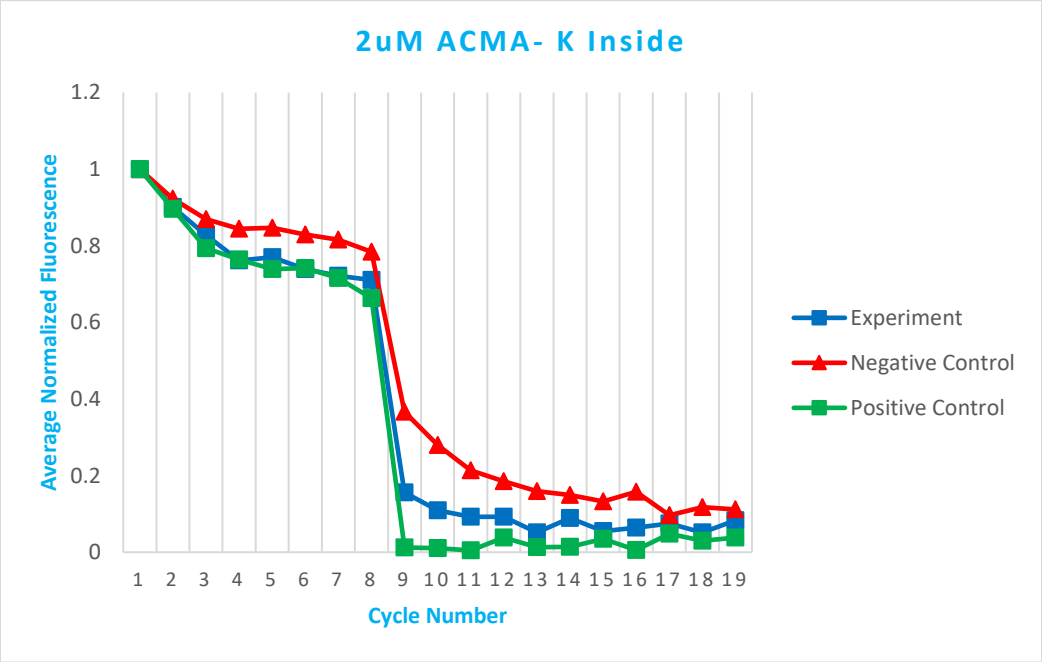


Chart Title
0
33
66
99
132
165
198
231
1138
1171
1204
1237
1270
1303
1336
1369
1402
1435
1468
1501
T2norm
T3norm
T4norm
T5norm

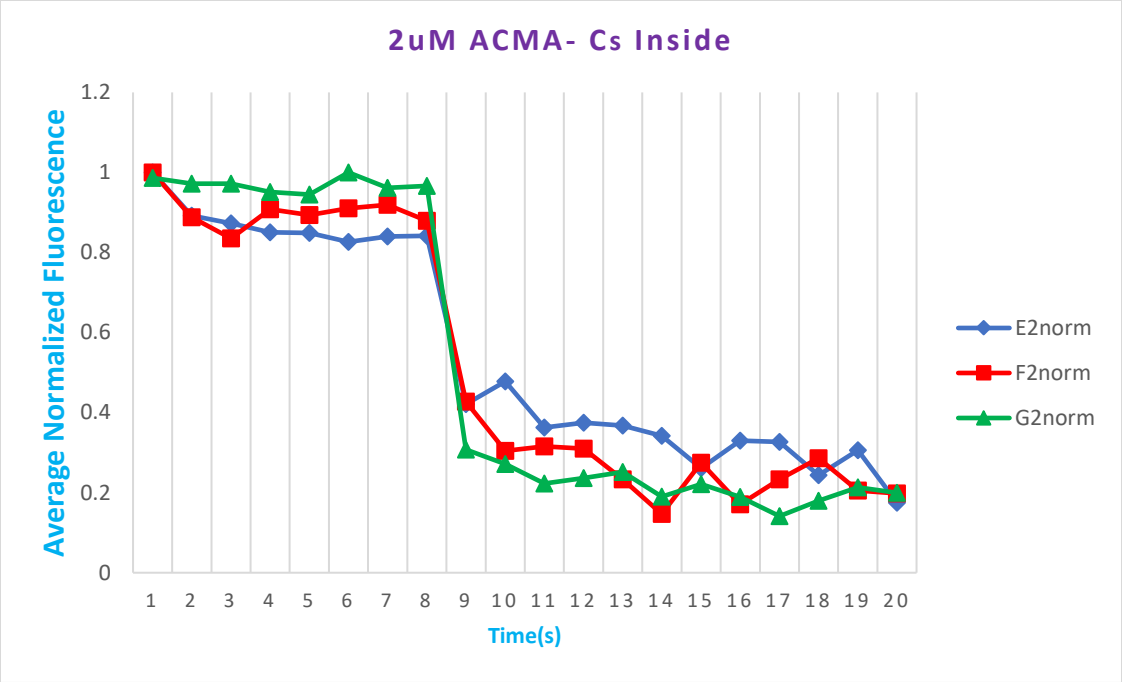


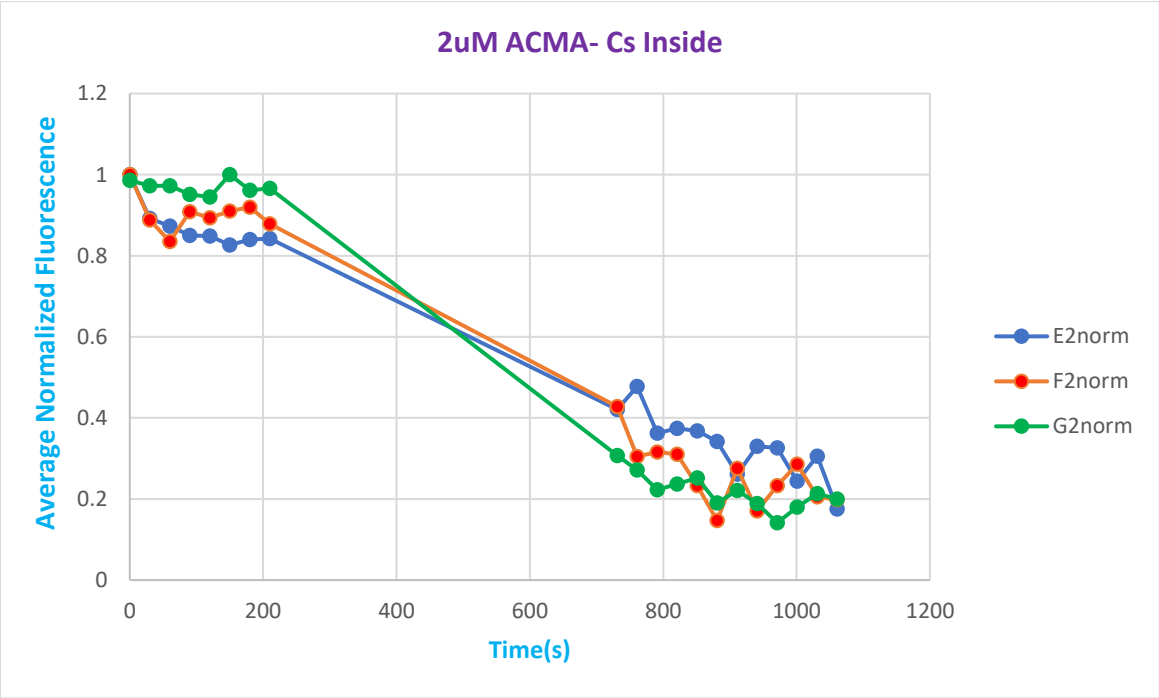


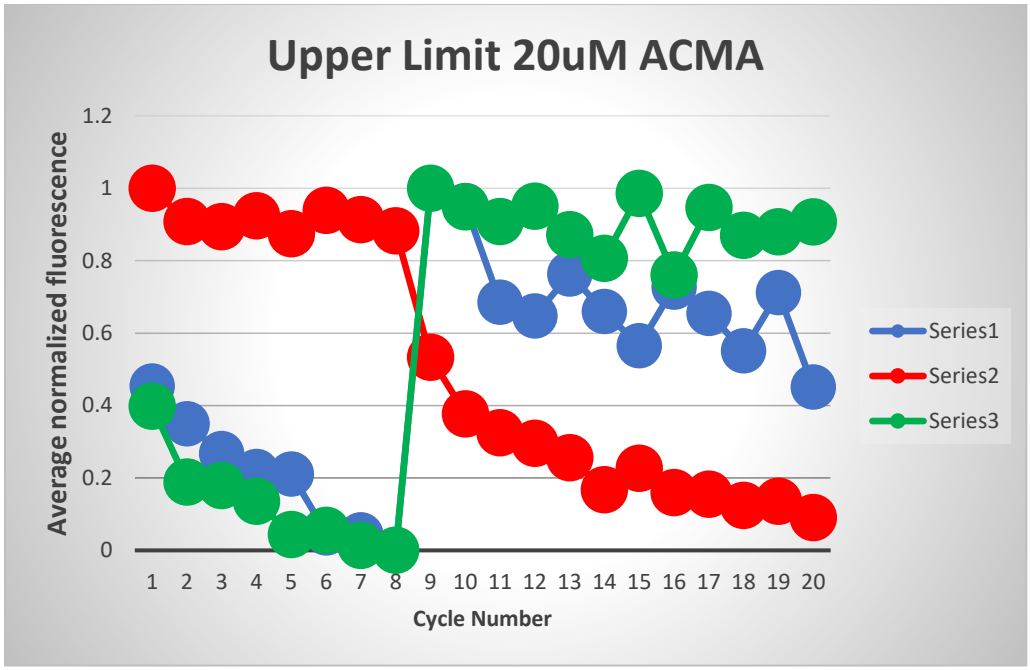
Gain of function experiments(gofs)

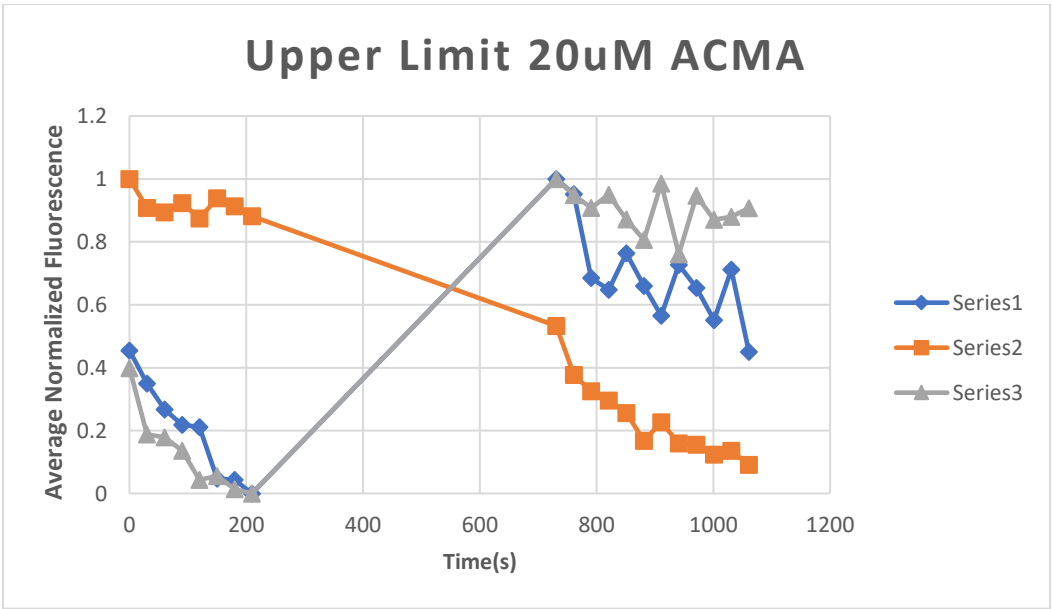
Loss of function experiments (lofs)

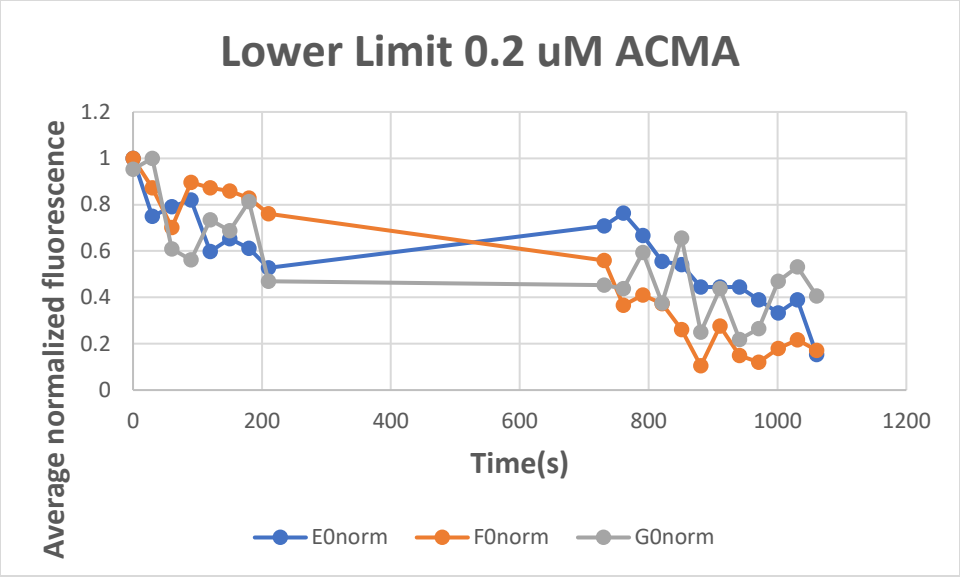
Base recording technique avoiding the recording and stimulating electrode from being together

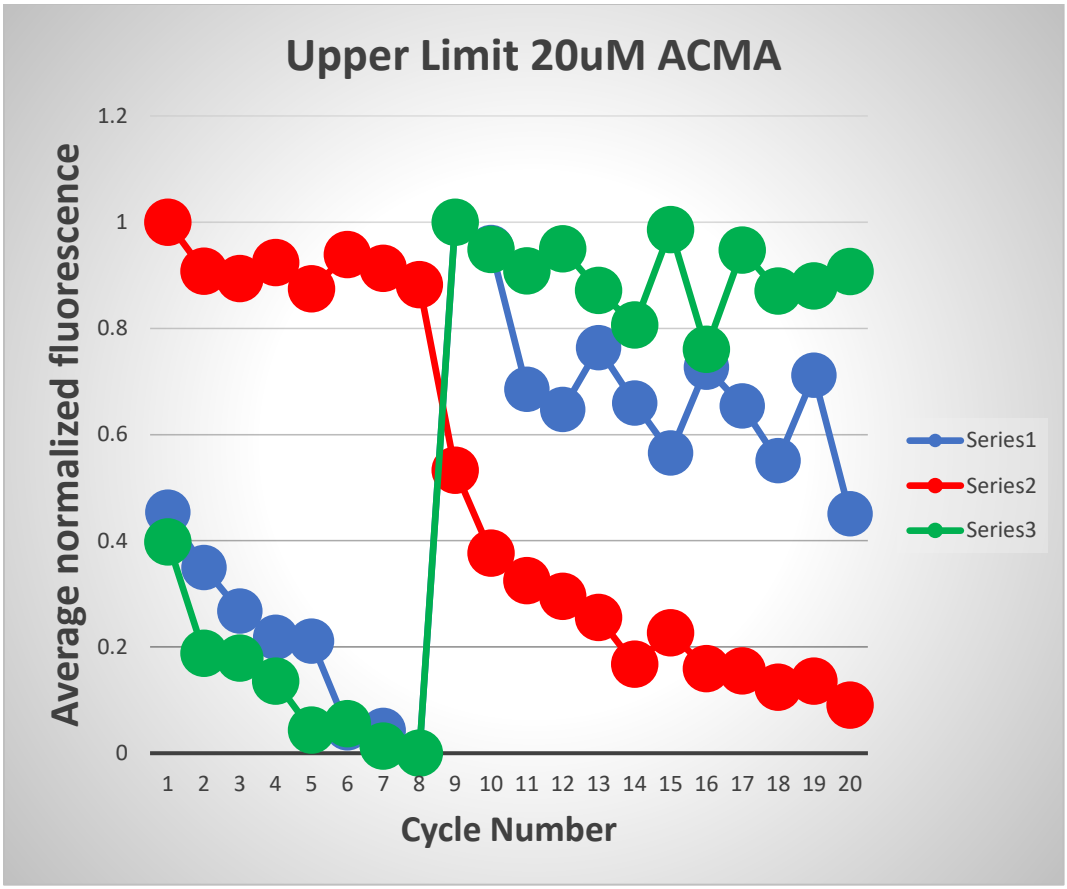

2uM ACMA- Cs Inside
Average Normalized Fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Time(s)
E2norm
F2norm
G2norm

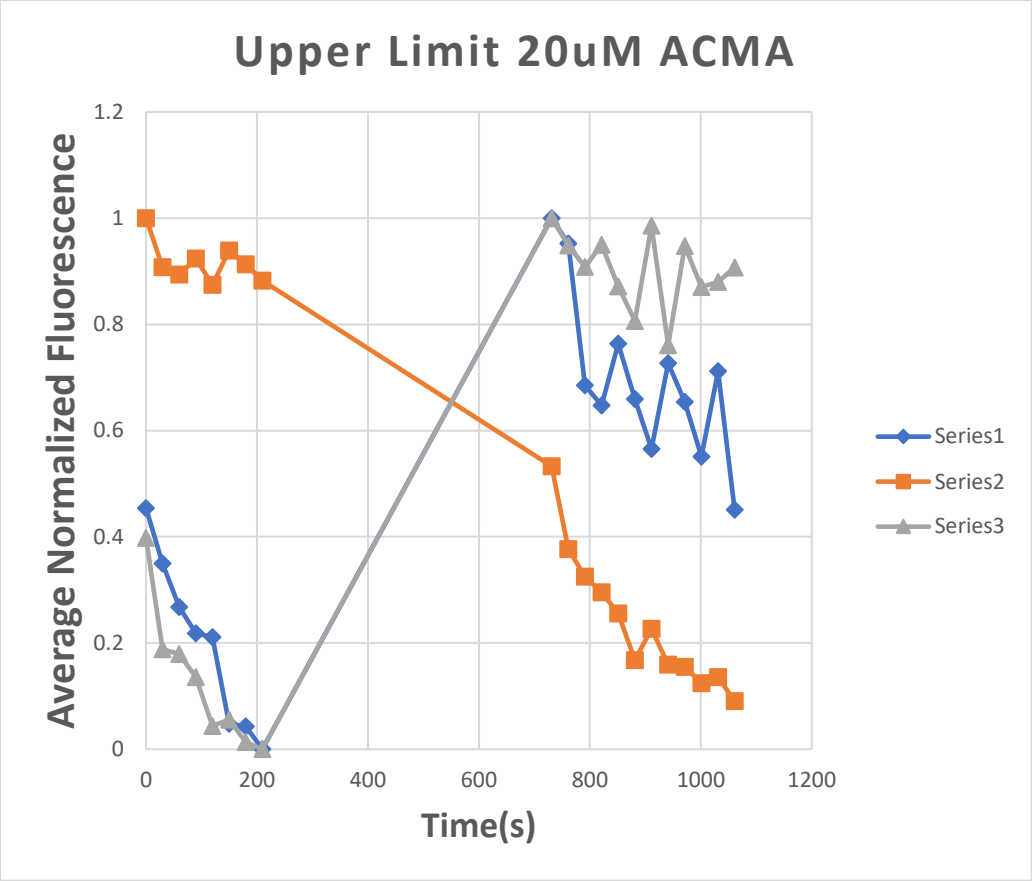

2uM ACMA- Cs Inside
Average Normalized Fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
1200
Time(s)
E2norm
F2norm
G2norm

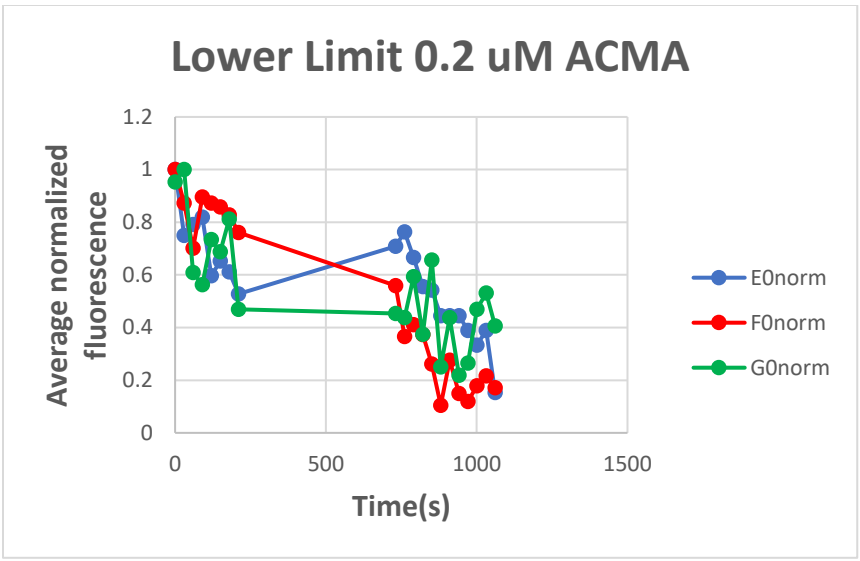

Upper Limit 20uM ACMA
Average normalized fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Cycle Number
Series1
Series2
Series3

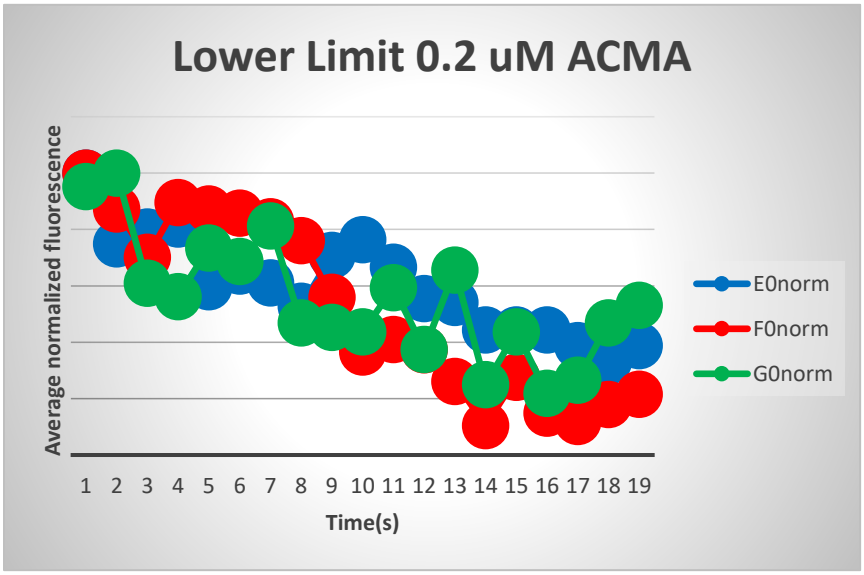

Upper Limit 20uM ACMA
Average Normalized Fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
1200
Time(s)
Series1
Series2
Series3

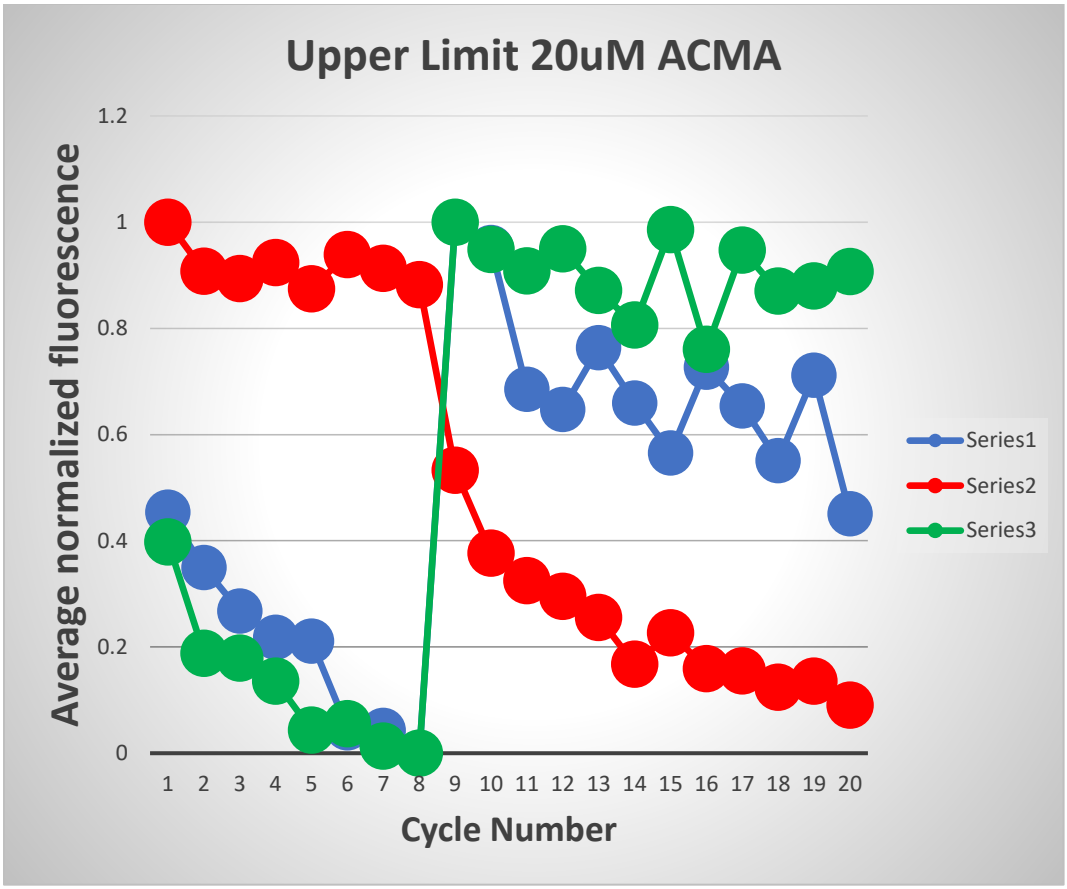

Lower Limit 0.2 uM ACMA
Average normalized fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
1200
Time(s)
E0norm
F0norm
G0norm


Upper Limit 20uM ACMA
Average normalized fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Cycle Number
Series1
Series2
Series3


Upper Limit 20uM ACMA
Average Normalized Fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
1200
Time(s)
Series1
Series2
Series3


Lower Limit 0.2 uM ACMA
Average normalized fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
0
500
1000
1500
Time(s)
E0norm
F0norm
G0norm


Lower Limit 0.2 uM ACMA
Average normalized fluorescence
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Time(s)
E0norm
F0norm
G0norm


Upper Limit 20uM ACMA
Average normalized fluorescence
1.2
1
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Cycle Number
Series1
Series2
Series3

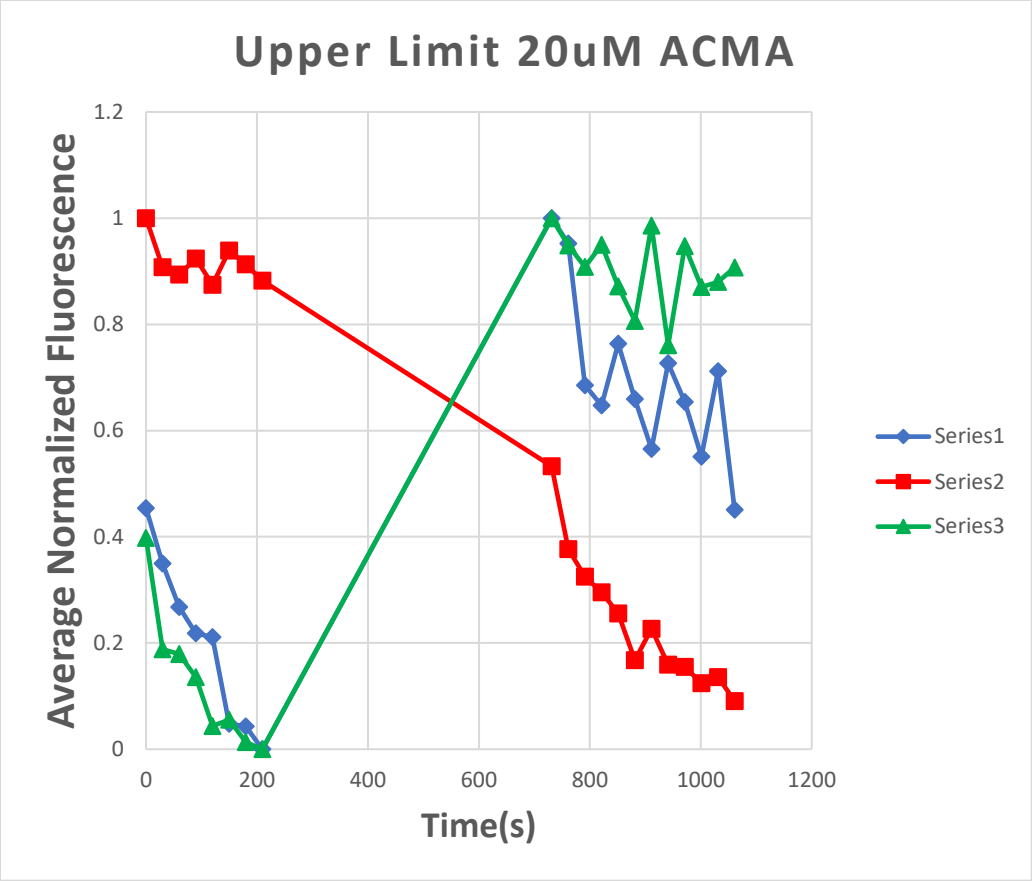


Figure 1: Averaged Normalized Fluorescence (+- SEM) vs Time (s) or Cycle Number, following NavAb flux assay experiments for three groups (Experiment, Negative and positive control). N =40 based on averaged data from triplicate experiments. Image legend

Data set names code to be used in plotting in R with no error bars

Navab221

Navab227

Legend

Figure1: Averaged Normalized Fluorescence (+- SEM) vs Time (s) or Cycle Number, following NavAb flux assay experiments for three groups (Experiment, Negative and positive control). N =40 based on averaged data from triplicate experiments. Image legend represents groups correctly. ***(Source: R Studio)***