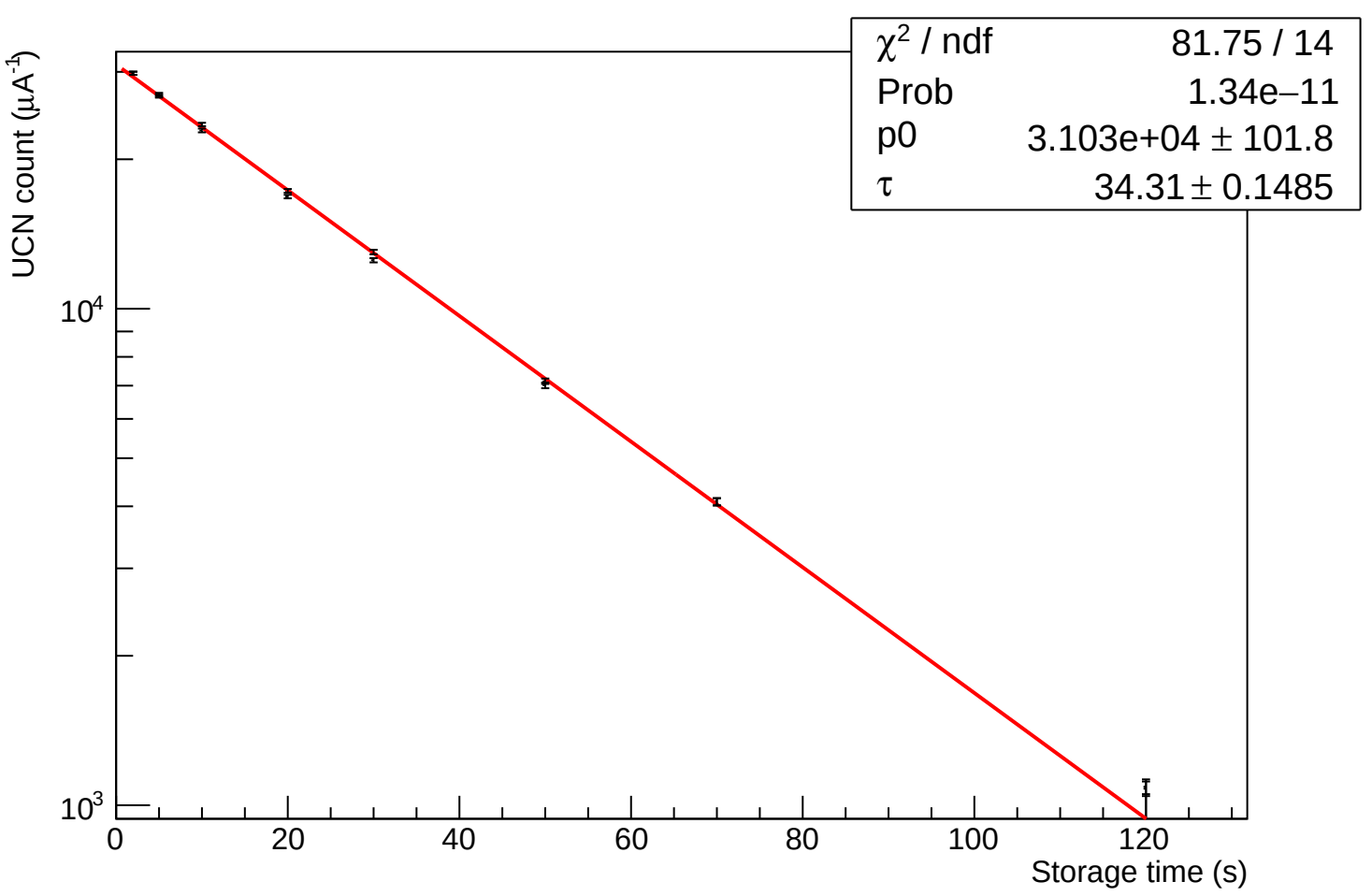
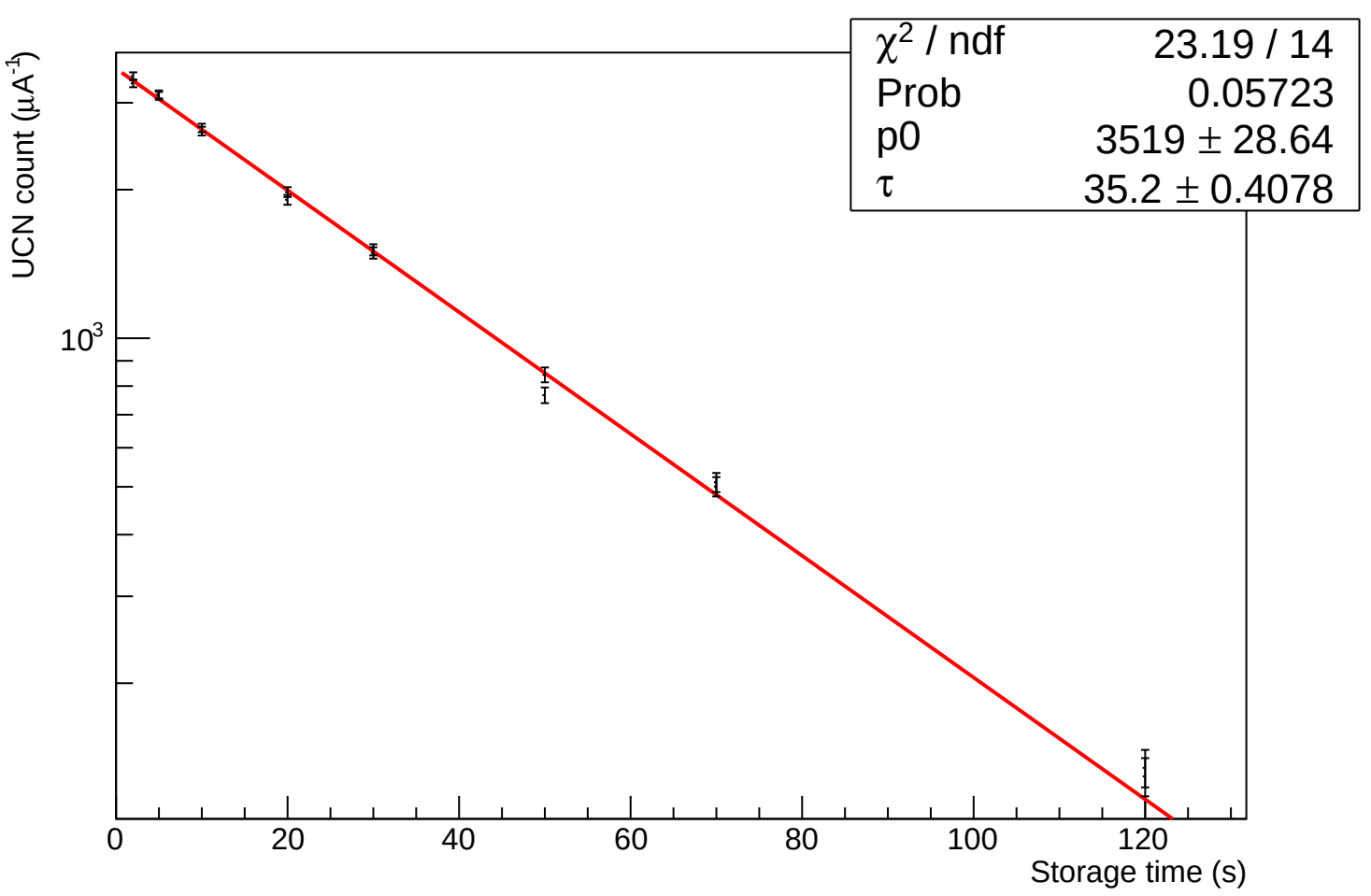
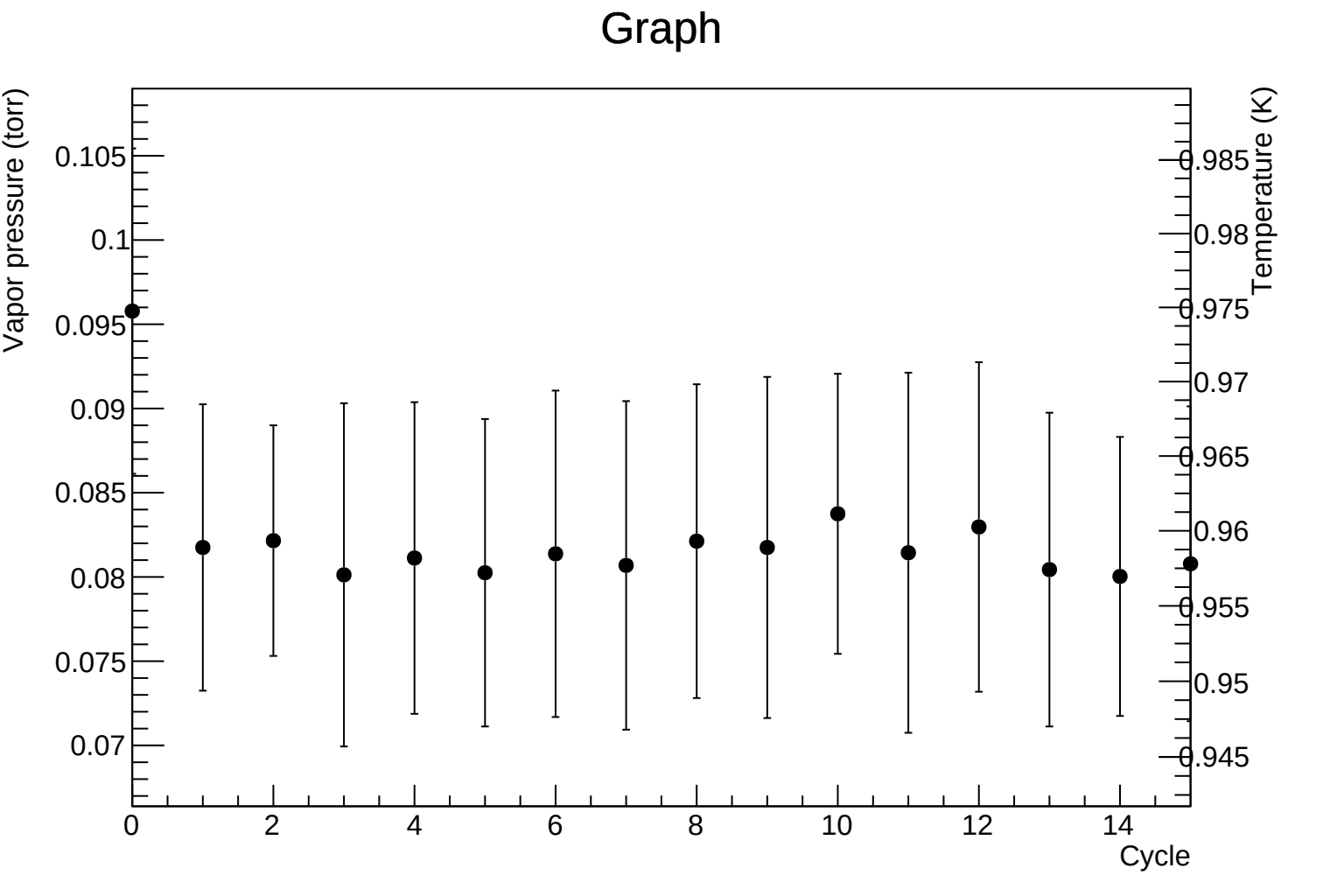
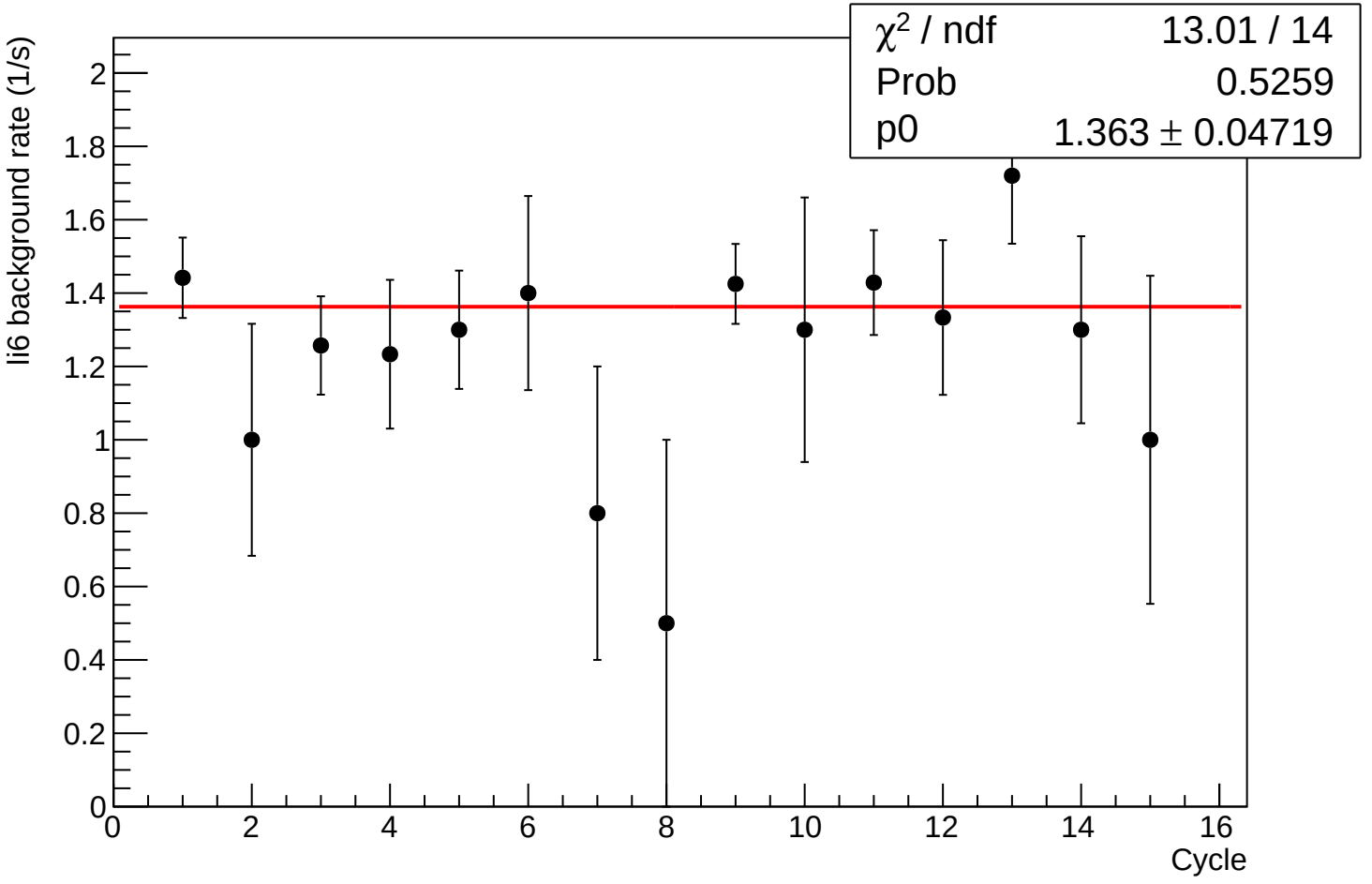
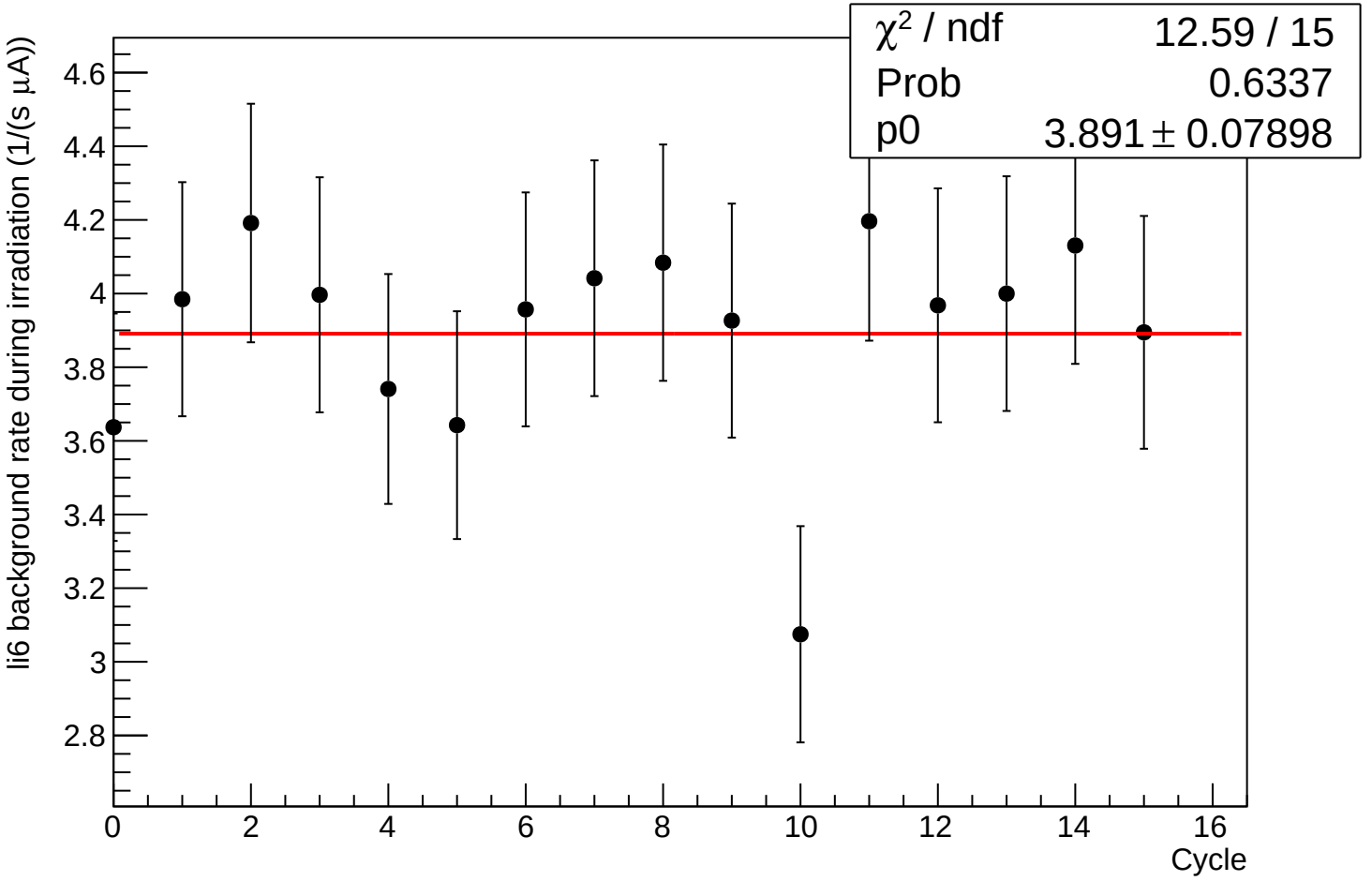
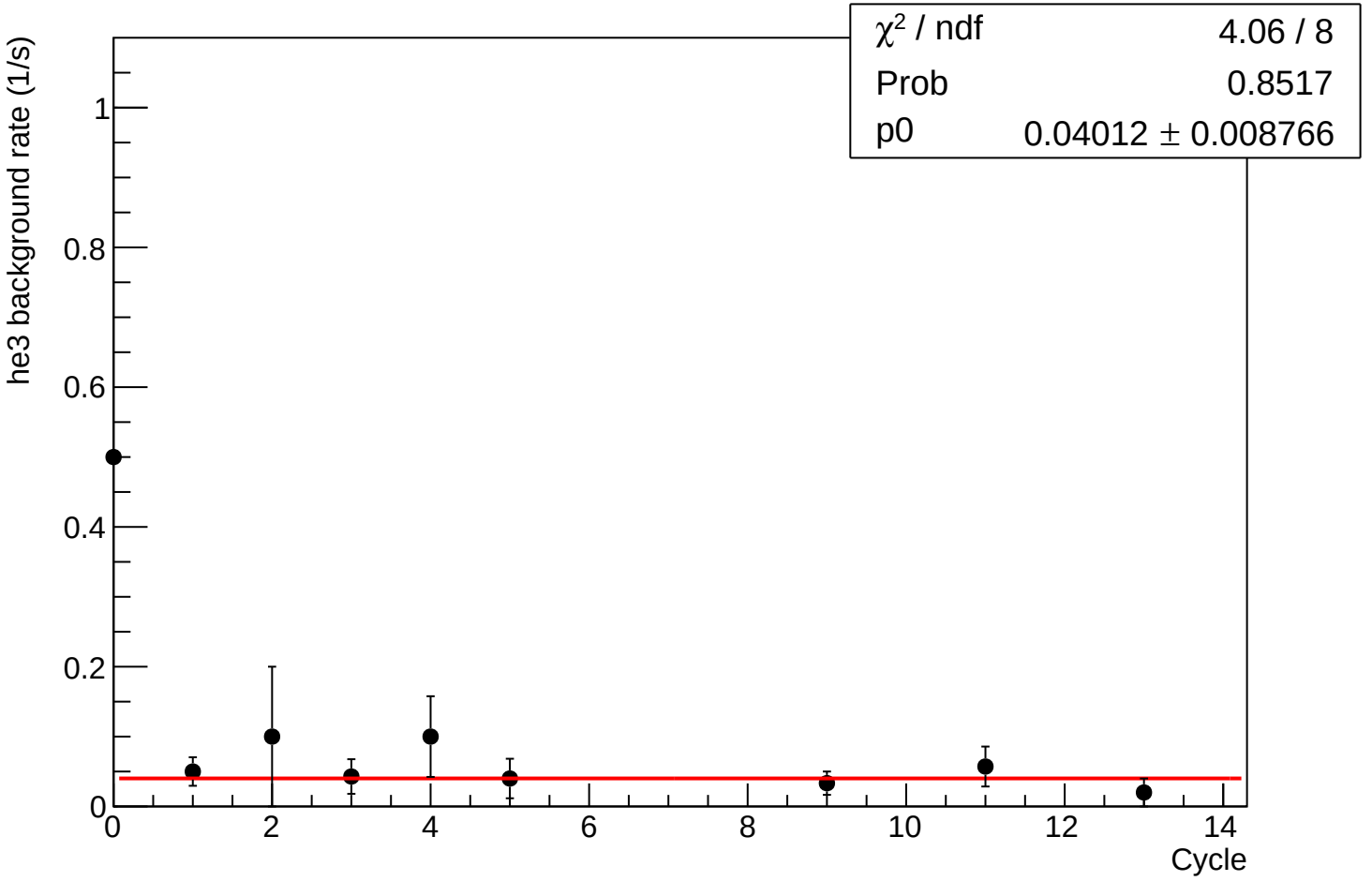

TCN19-260 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 81.75 / 14
Prob 1.34e−11
p0 3.103e+04 ± 101.8
τ 34.31 ± 0.1485
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

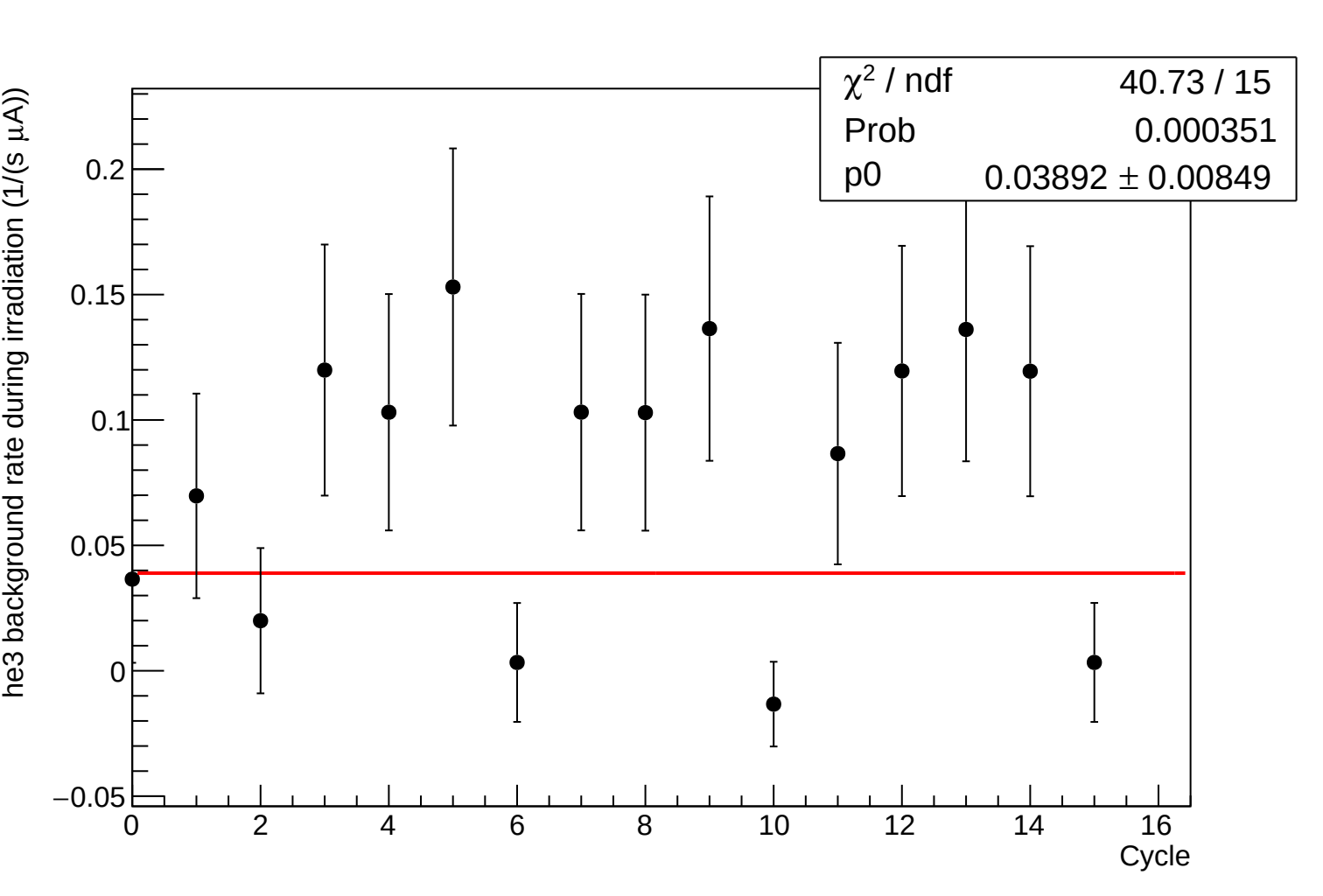

TCN19-260 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 23.19 / 14
Prob 0.05723
p0 3519 ± 28.64
τ 35.2 ± 0.4078
UCN count (μA-1)
10^3
0
20
40
60
80
100
120
Storage time (s)

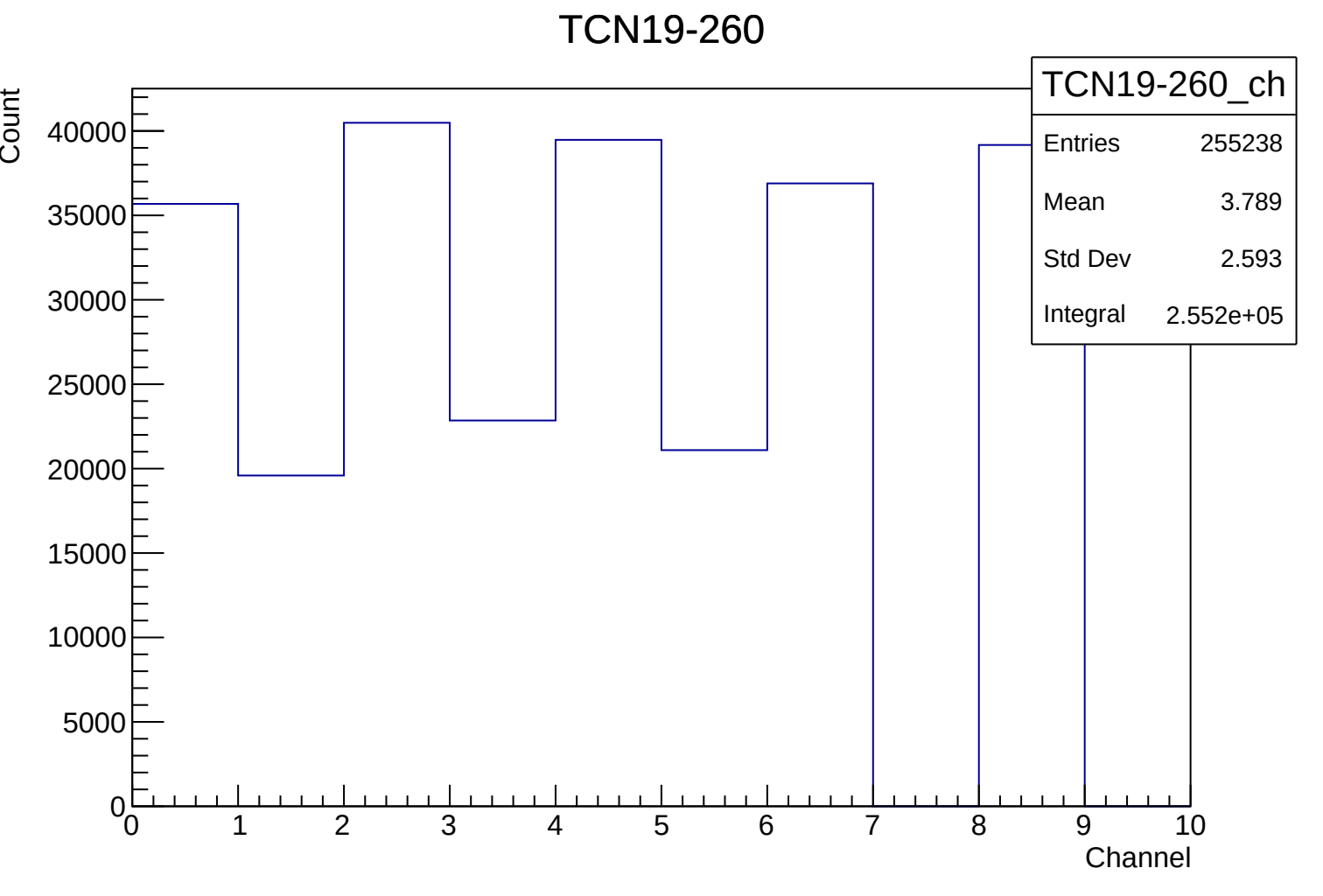

Graph
Vapor pressure (torr)
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
Temperature (K)
0.985
0.98
0.975
0.97
0.965
0.96
0.955
0.95
0.945
0
2
4
6
8
10
12
14
Cycle


χ^2 / ndf 13.01 / 14
Prob 0.5259
p0 1.363 ± 0.04719
li6 background rate (1/s)
Cycle
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
2
4
6
8
10
12
14
16


χ² / ndf 12.59 / 15
Prob 0.6337
p0 3.891 ± 0.07898
li6 background rate during irradiation (1/(s μA))
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
0
2
4
6
8
10
12
14
16
Cycle


χ² / ndf 4.06 / 8
Prob 0.8517
p0 0.04012 ± 0.008766
he3 background rate (1/s)
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
Cycle


χ² / ndf 40.73 / 15
Prob 0.000351
p0 0.03892 ± 0.00849
he3 background rate during irradiation (1/(s μA))
Cycle
0.2
0.15
0.1
0.05
0
−0.05
0
2
4
6
8
10
12
14
16


TCN19-260
TCN19-260_ch
Entries 255238
Mean 3.789
Std Dev 2.593
Integral 2.552e+05
Count
Channel
0
5000
10000
15000
20000
25000
30000
35000
40000
0
1
2
3
4
5
6
7
8
9
10