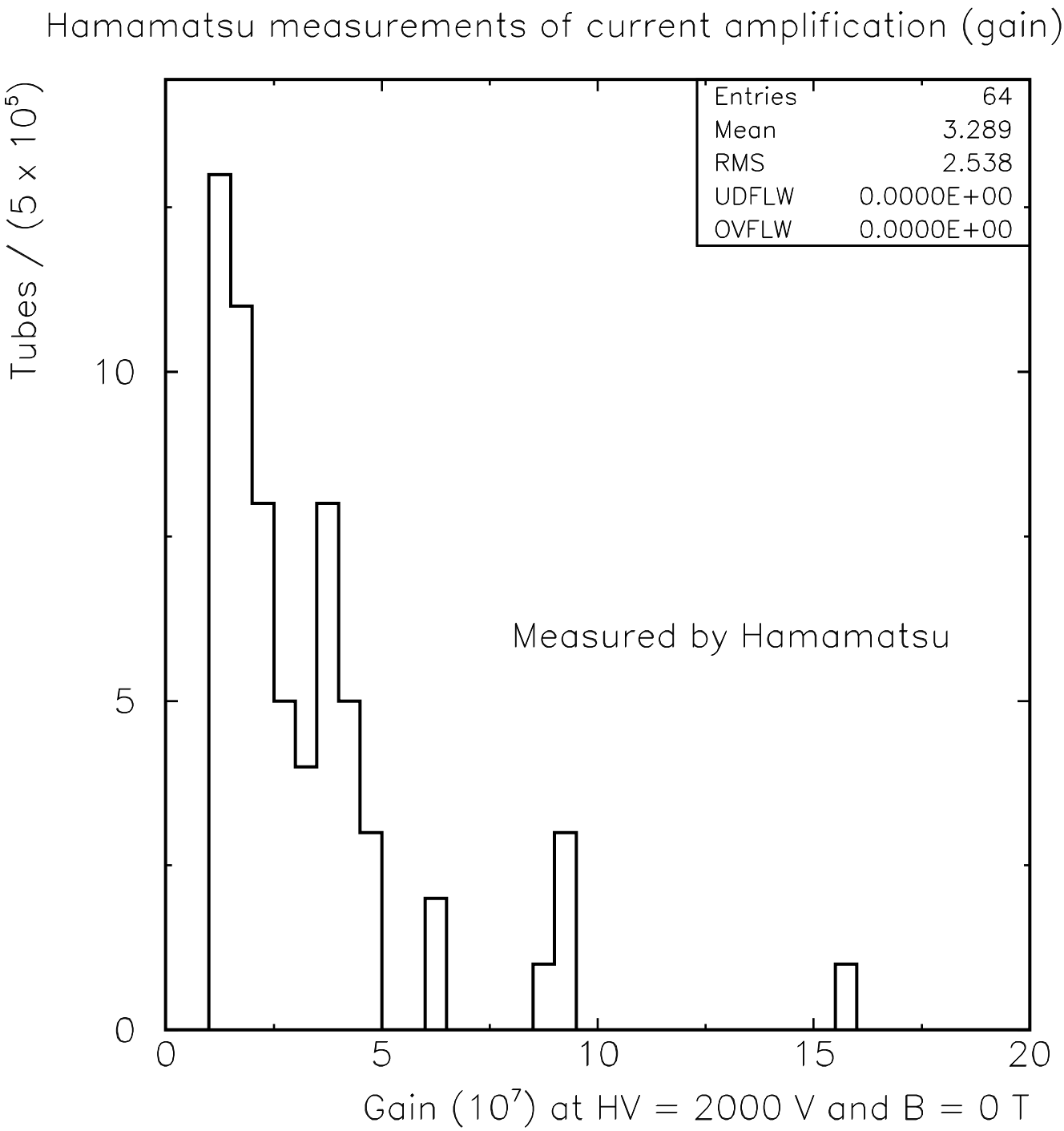
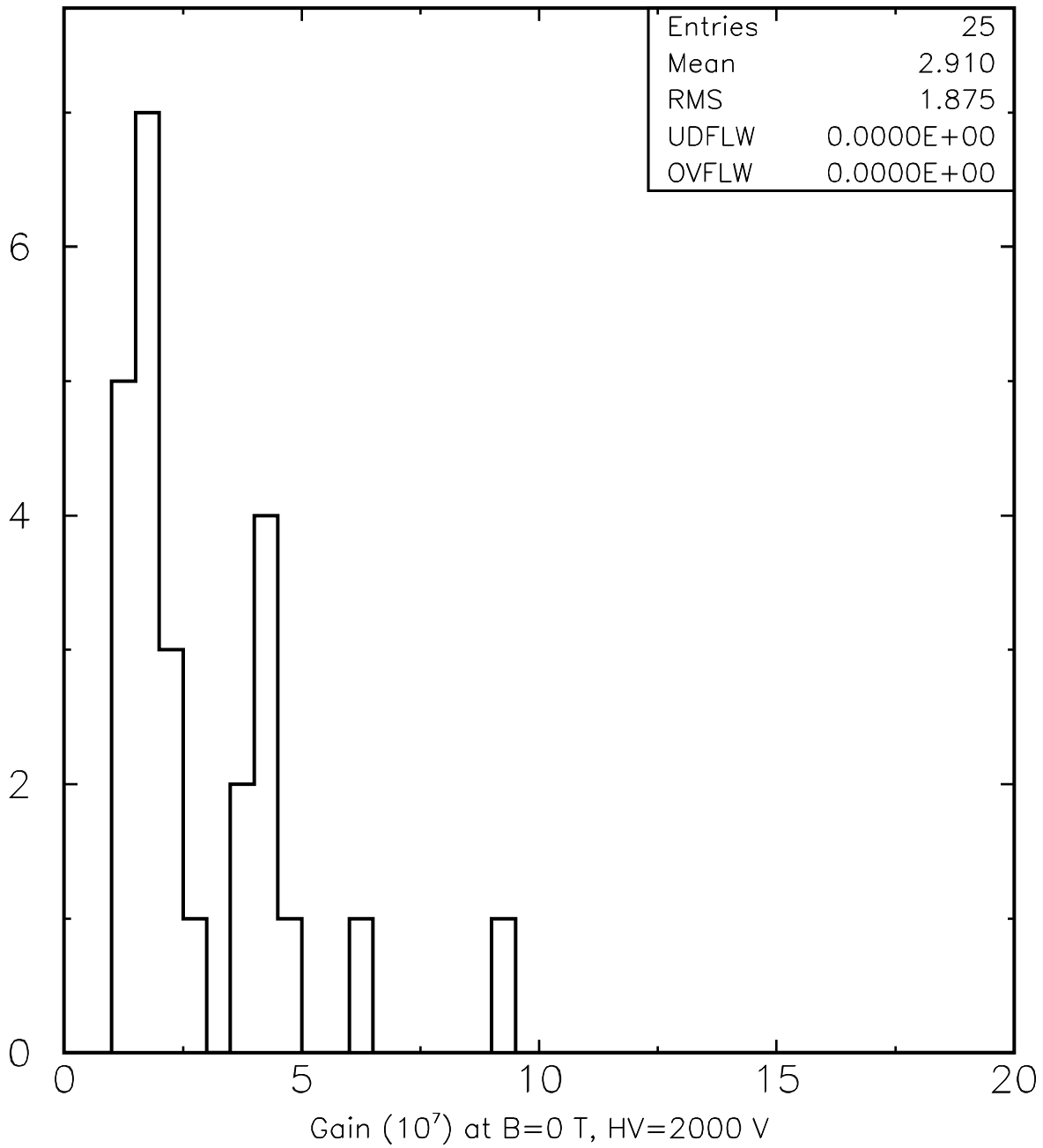
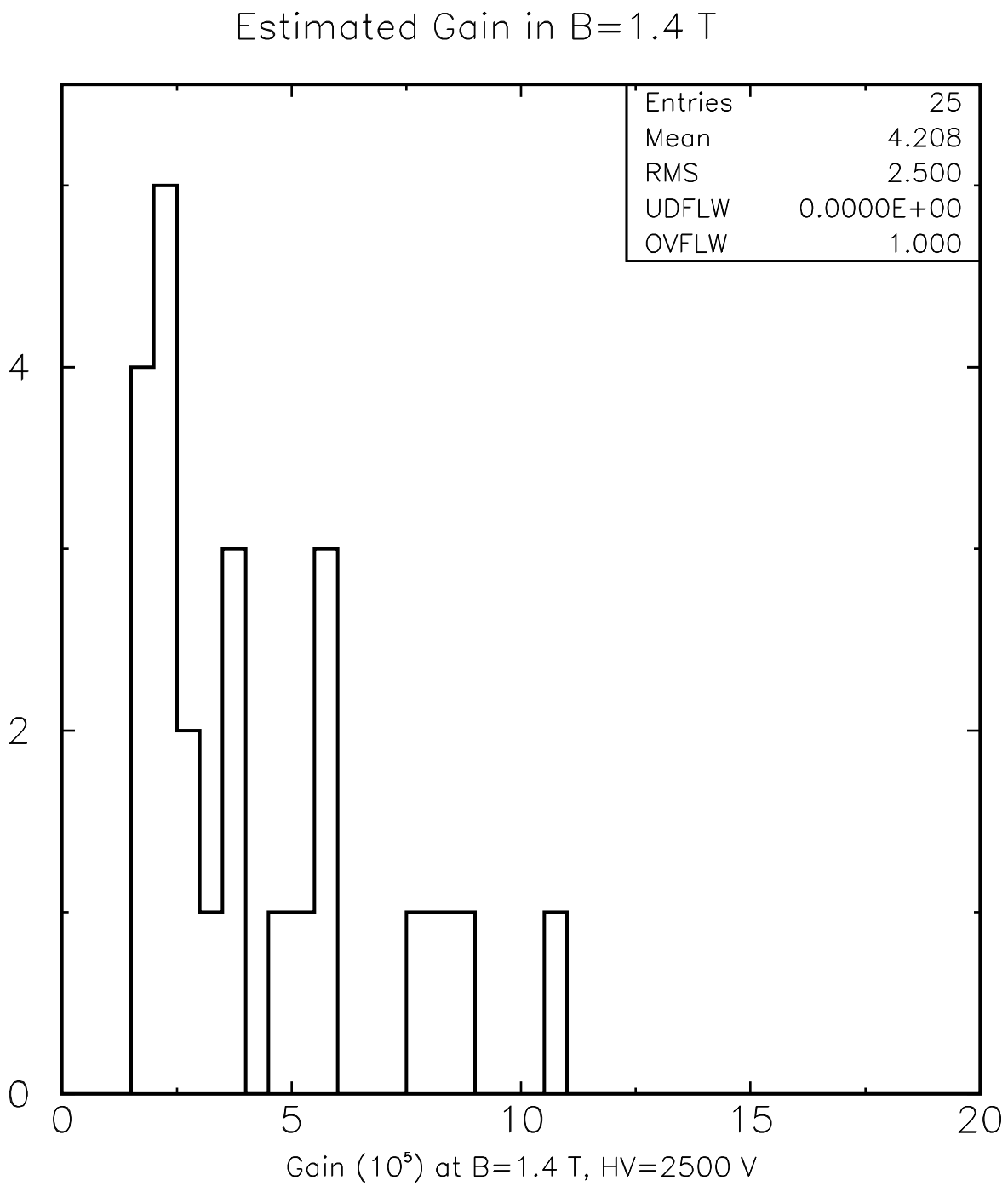
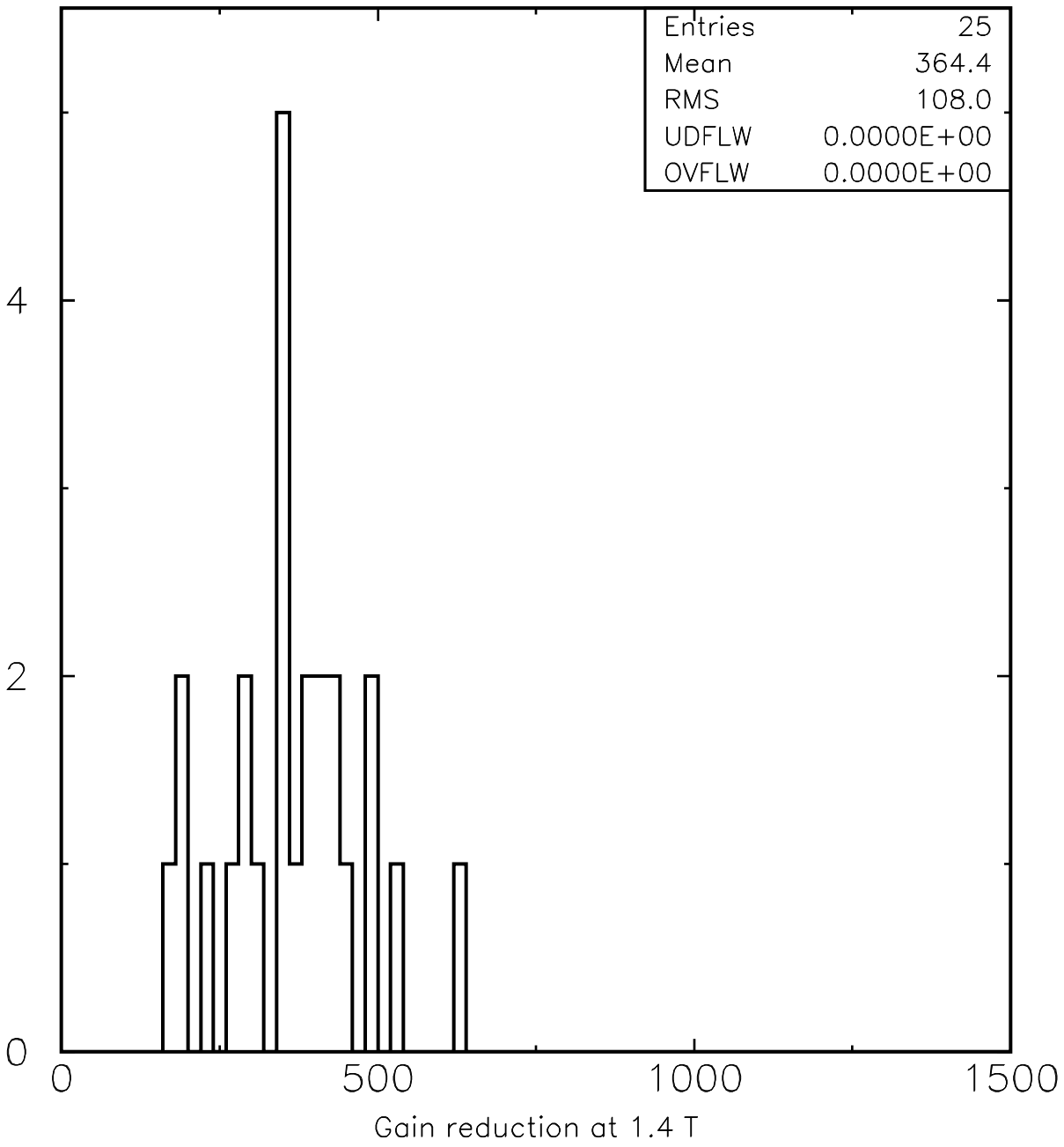
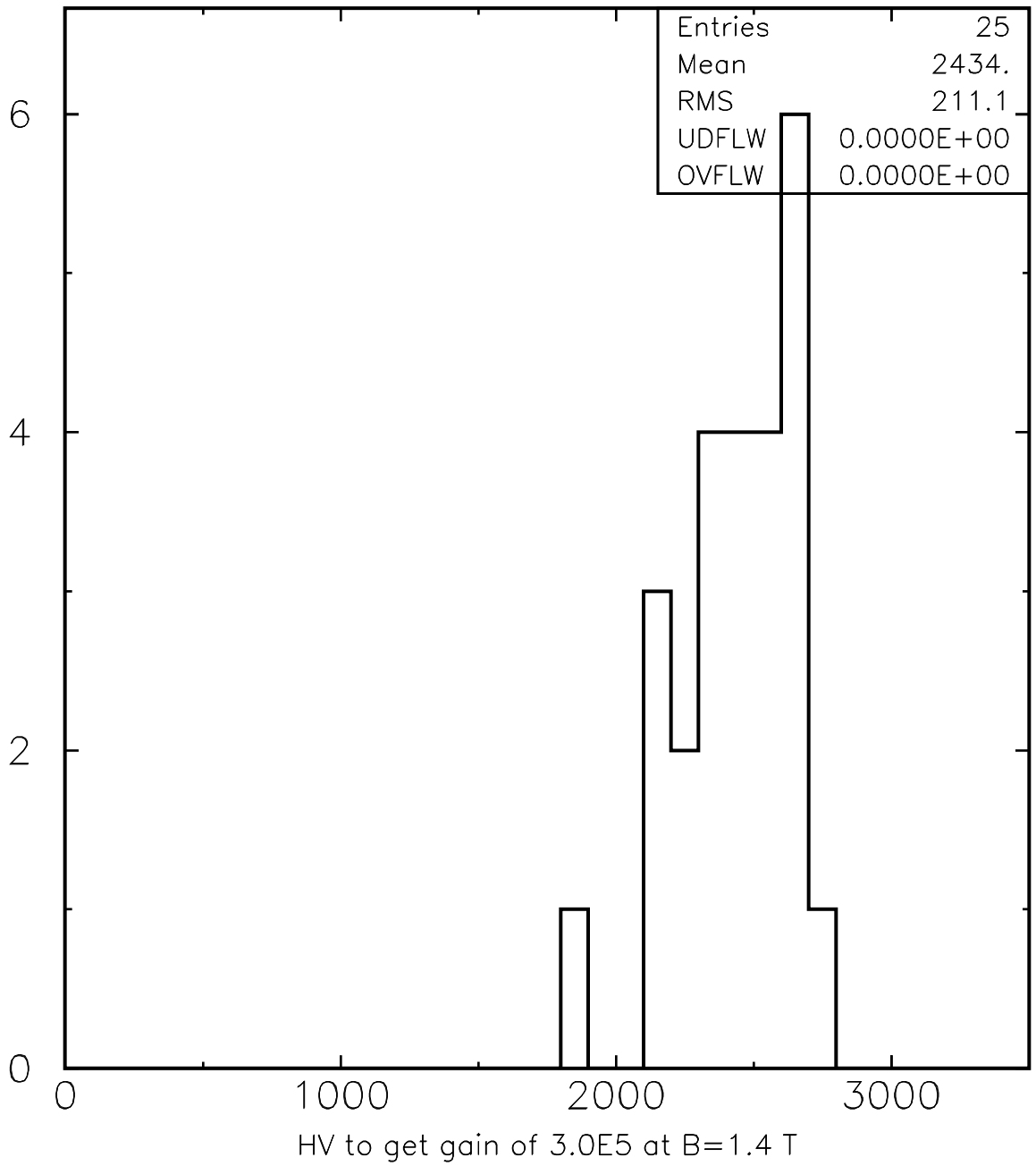

Hamamatsu measurements of current amplification (gain)
Entries 64
Mean 3.289
RMS 2.538
UDFLW 0.0000E+00
OVFLW 0.0000E+00
Tubes / (5 x 10^5)
Measured by Hamamatsu
Gain (10^7) at HV = 2000 V and B = 0 T
0
5
10
15
20

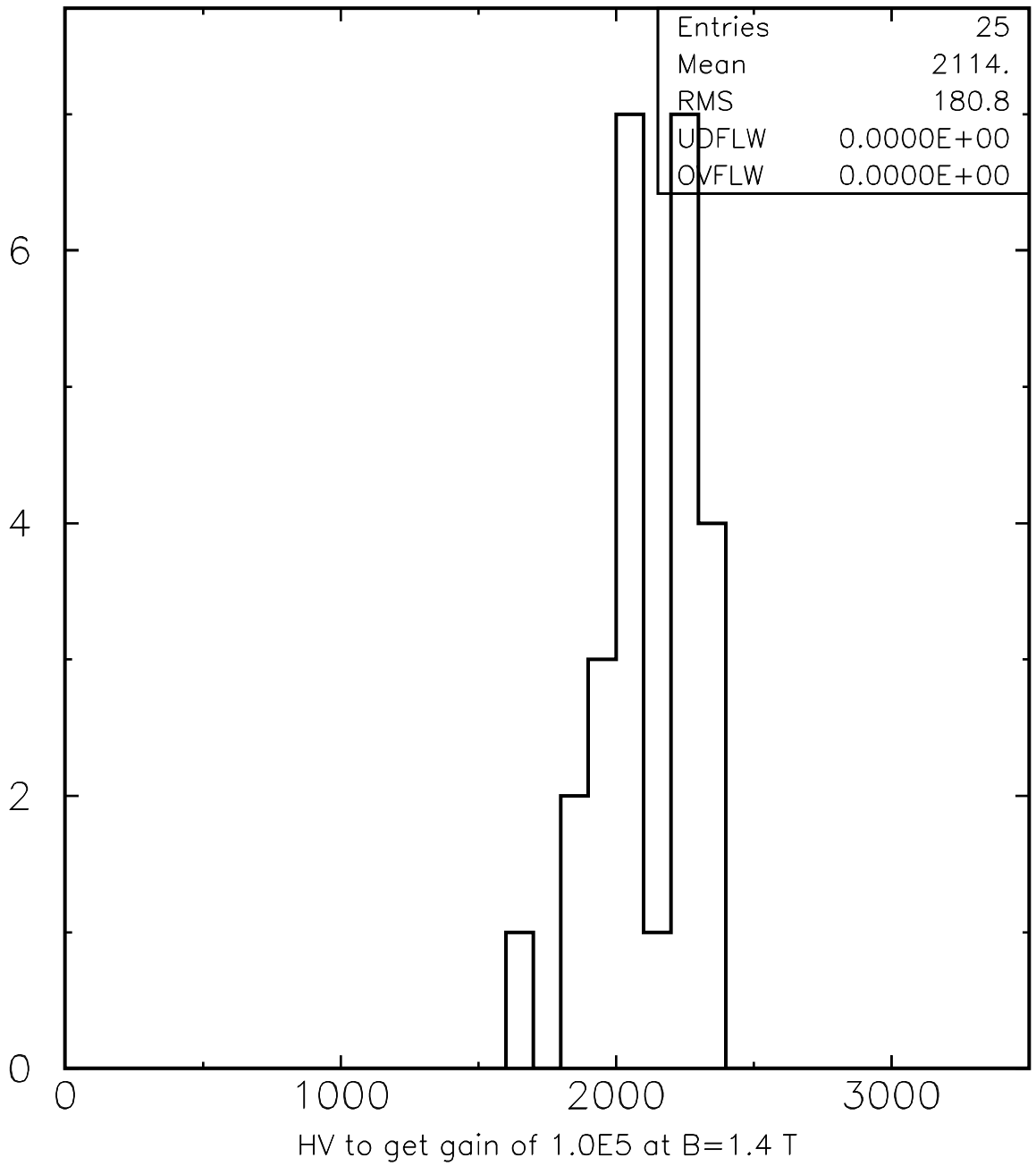
Hamamatsu measurements of current amplification (gain)

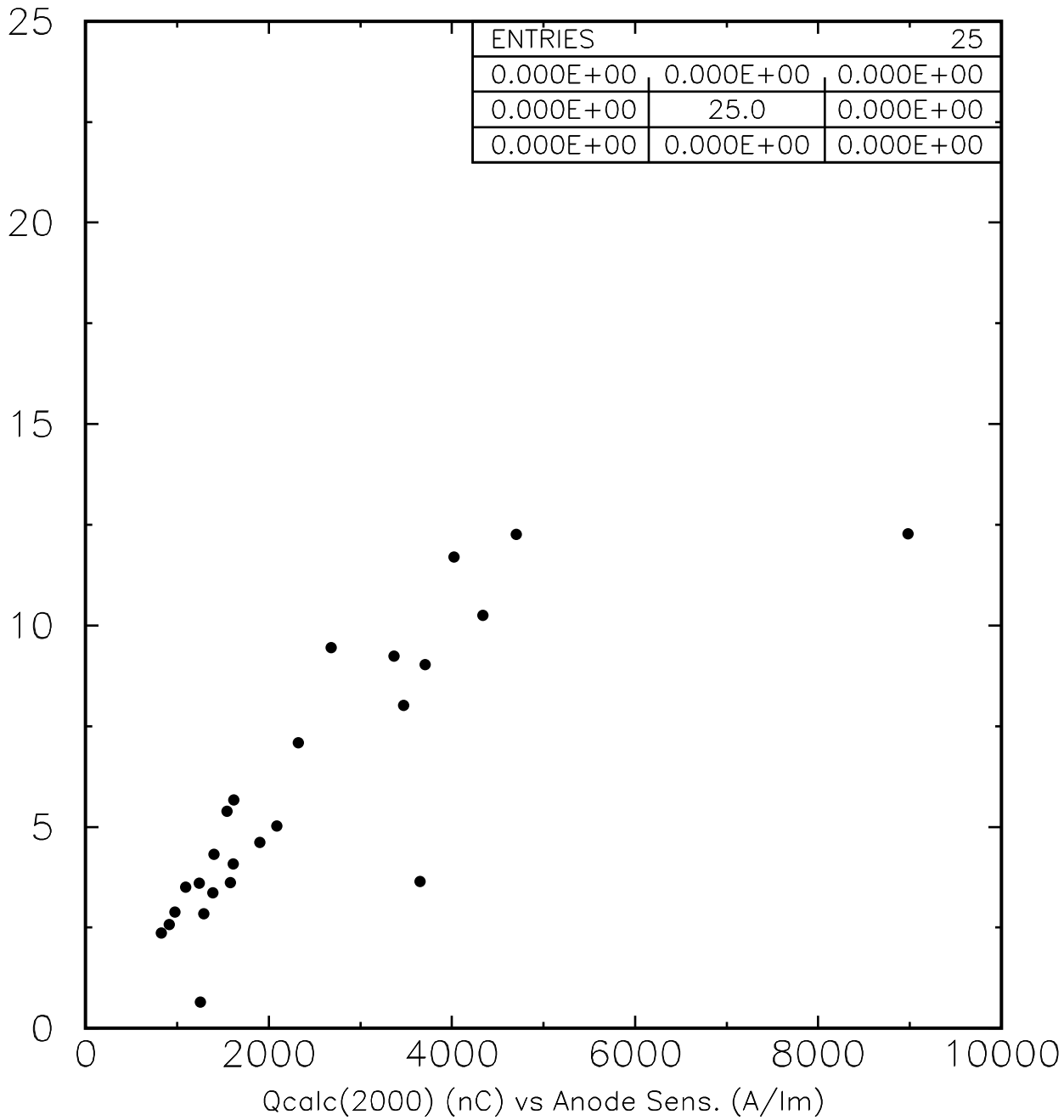


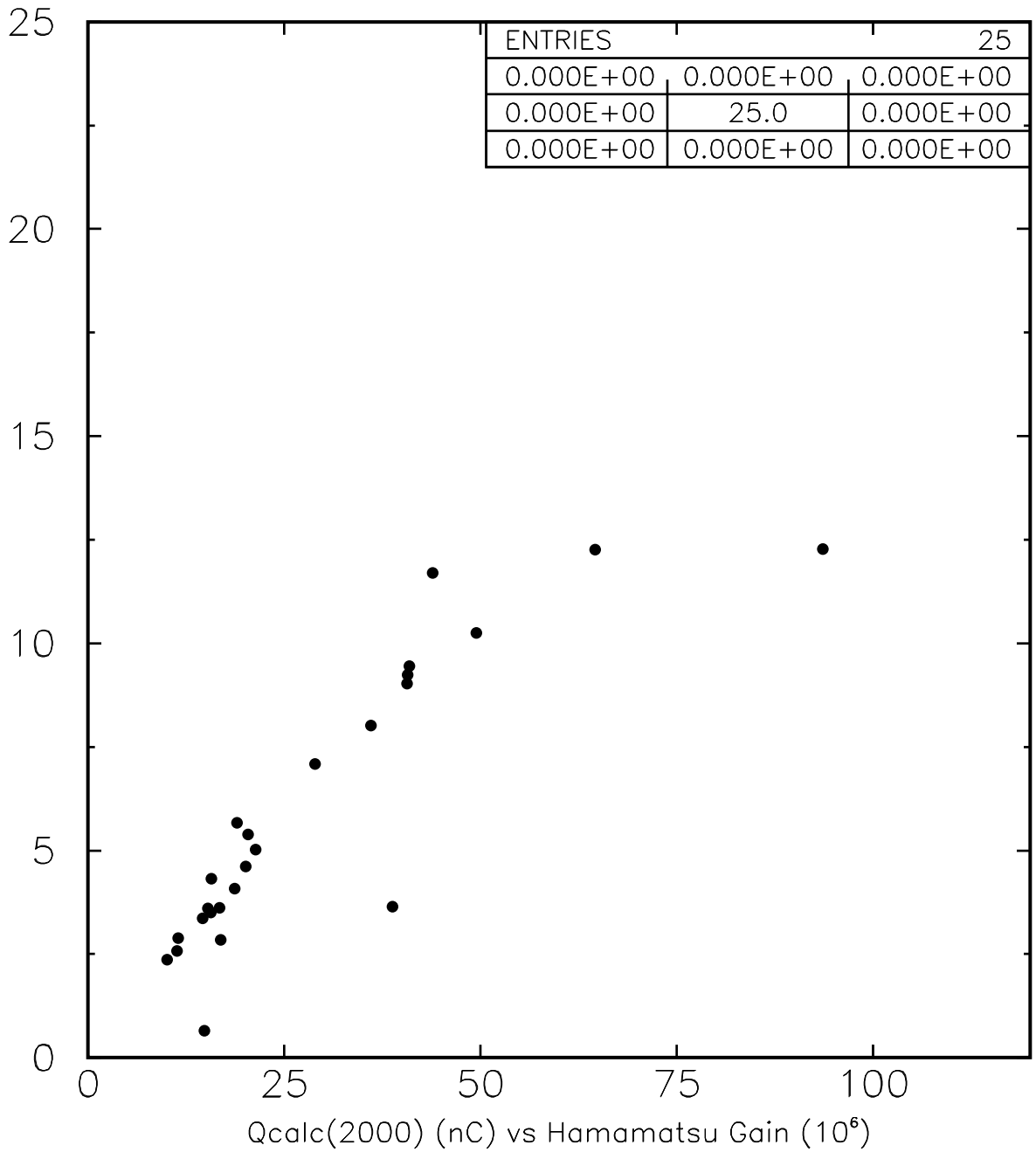

Estimated Gain in B=1.4 T
Entries 25
Mean 4.208
RMS 2.500
UDFLW 0.0000E+00
OVFLW 1.000
0
2
4
0
5
10
15
20
Gain (10^5) at B=1.4 T, HV=2500 V

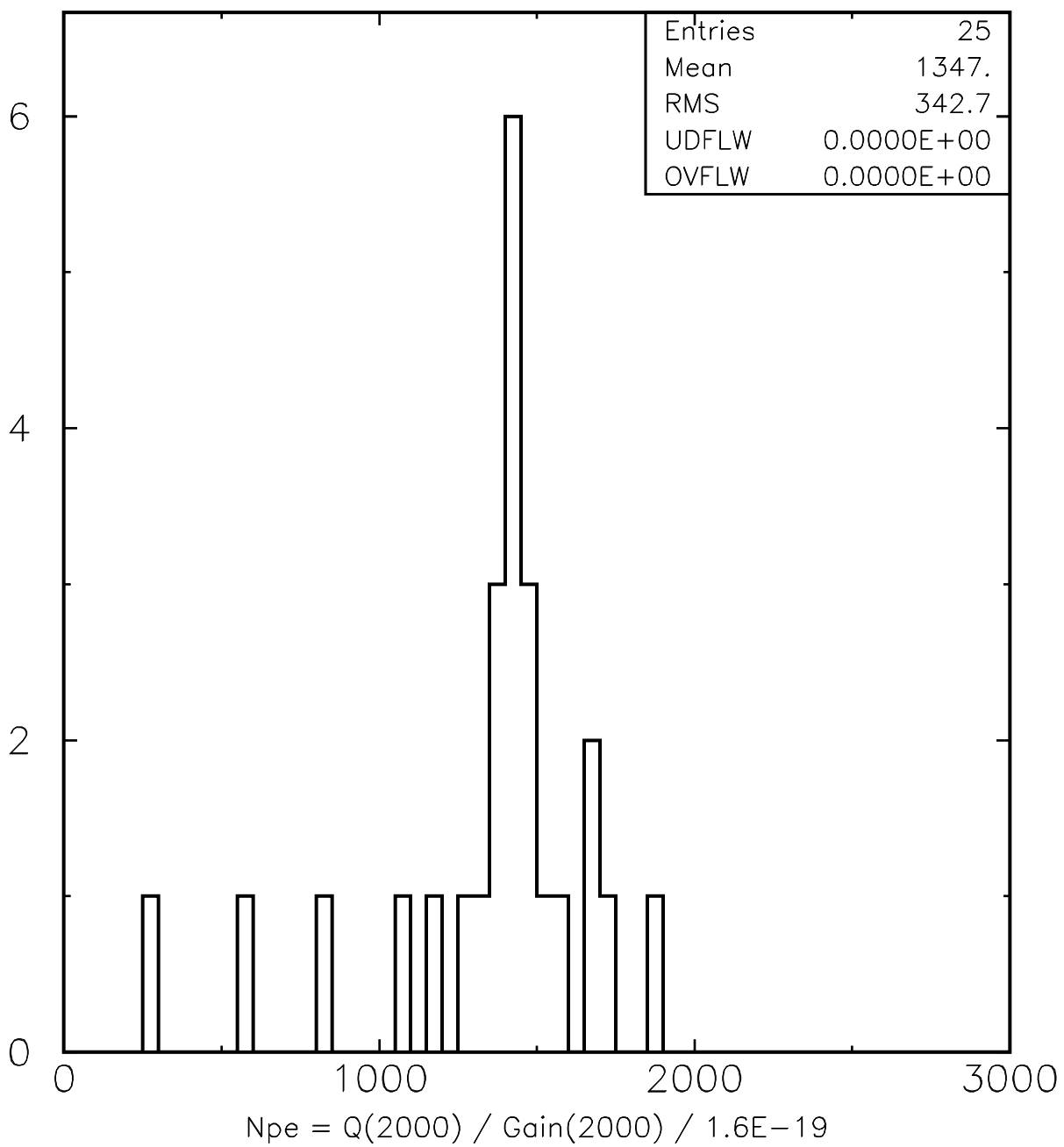

Entries 25
Mean 364.4
RMS 108.0
UDFLW 0.0000E+00
OVFLW 0.0000E+00
0
2
4
0
500
1000
1500
Gain reduction at 1.4 T

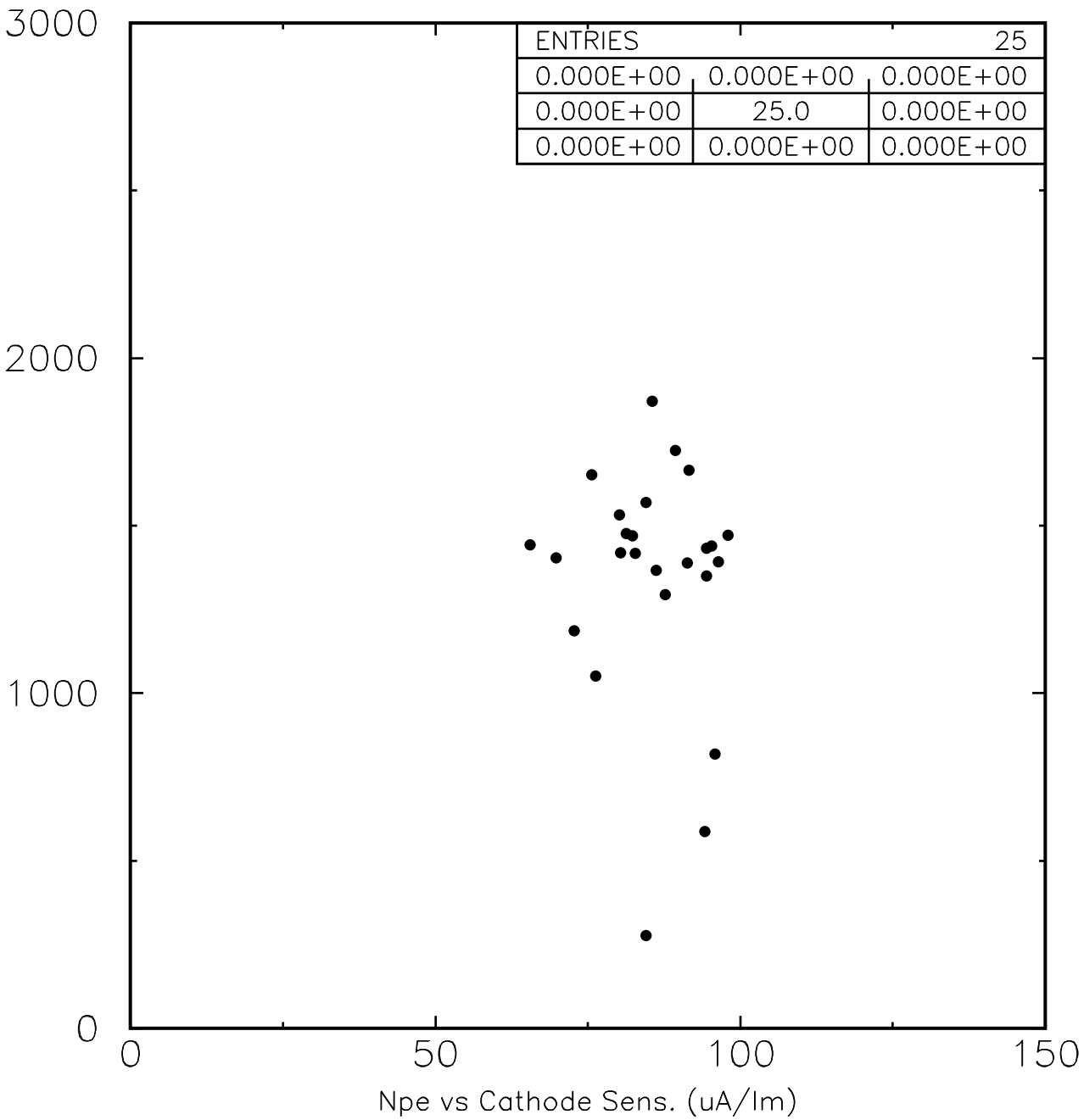

Entries 25
Mean 2434.
RMS 211.1
UDFLW 0.0000E+00
OVFLW 0.0000E+00
6
4
2
0
0
1000
2000
3000
HV to get gain of 3.0E5 at B=1.4 T

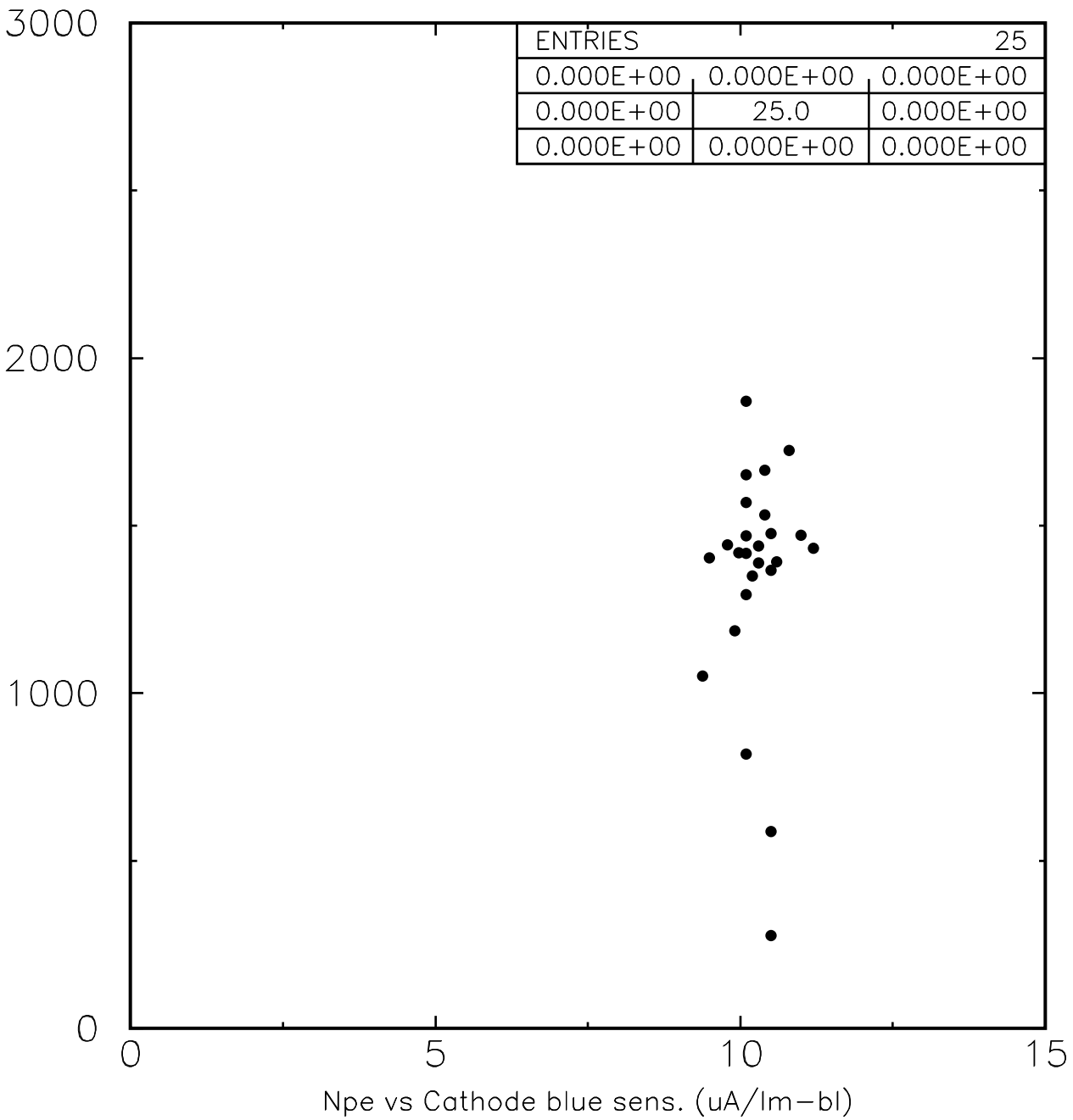

Entries 25
Mean 2114.
RMS 180.8
UDFLW 0.0000E+00
OVFLW 0.0000E+00
6
4
2
0
0
1000
2000
3000
HV to get gain of 1.0E5 at B=1.4 T


ENTRIES 25
0.000E+00 0.000E+00 0.000E+00
0.000E+00 25.0 0.000E+00
0.000E+00 0.000E+00 0.000E+00
25
20
15
10
5
0
0
2000
4000
6000
8000
10000
Qcalc(2000) (nC) vs Anode Sens. (A/lm)


ENTRIES 25
0.000E+00 0.000E+00 0.000E+00
0.000E+00 25.0 0.000E+00
0.000E+00 0.000E+00 0.000E+00
25
20
15
10
5
0
0
25
50
75
100
Qcalc(2000) (nC) vs Hamamatsu Gain (10⁶)


Entries 25
Mean 1347.
RMS 342.7
UDFLW 0.0000E+00
OVFLW 0.0000E+00
6
4
2
0
0
1000
2000
3000
Npe = Q(2000) / Gain(2000) / 1.6E−19


ENTRIES 25
0.000E+00 0.000E+00 0.000E+00
0.000E+00 25.0 0.000E+00
0.000E+00 0.000E+00 0.000E+00
3000
2000
1000
0
0
50
100
150
Npe vs Cathode Sens. (uA/lm)


ENTRIES 25
0.000E+00 0.000E+00 0.000E+00
0.000E+00 25.0 0.000E+00
0.000E+00 0.000E+00 0.000E+00
3000
2000
1000
0
0
5
10
15
Npe vs Cathode blue sens. (uA/lm−bl)