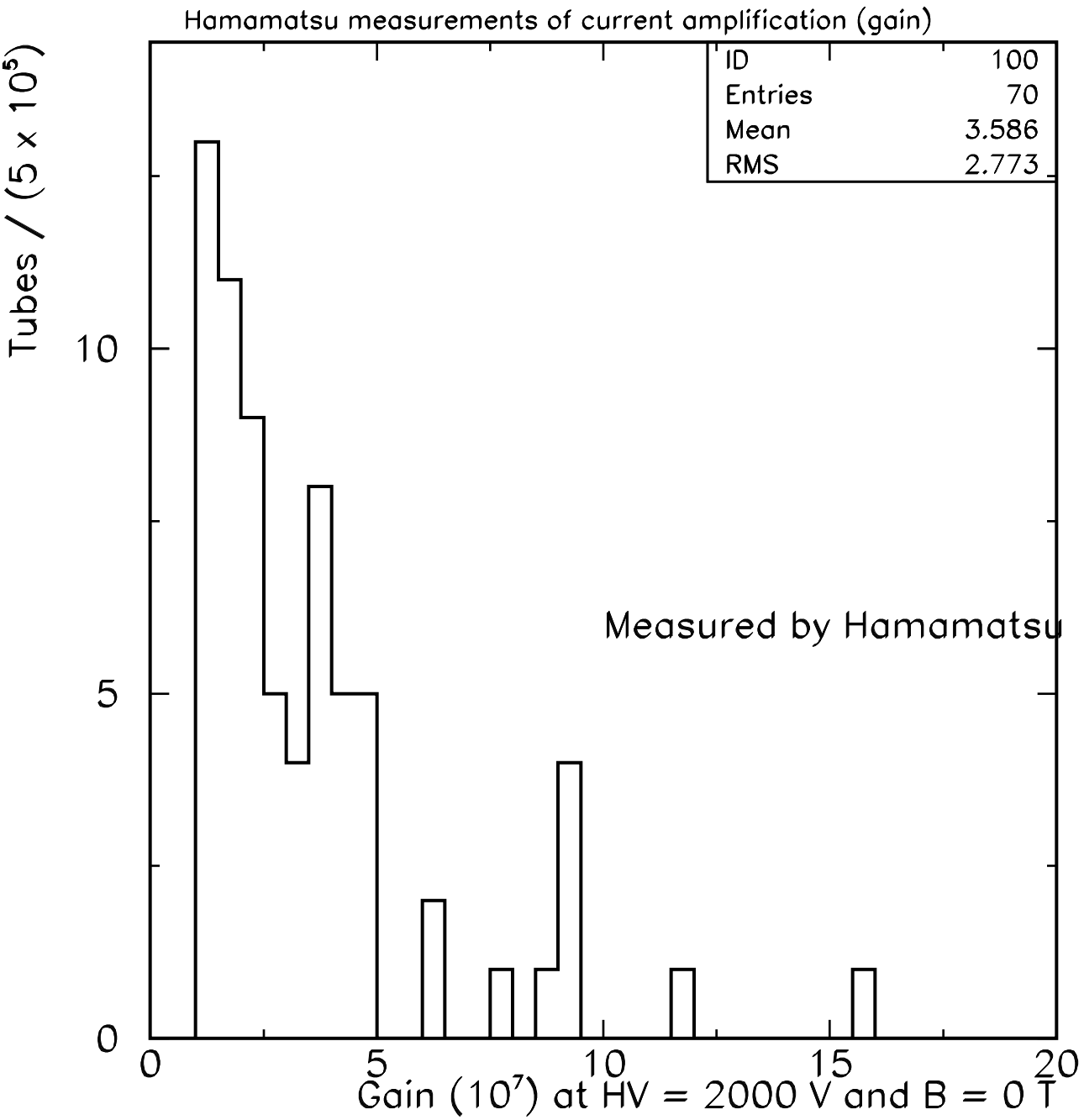
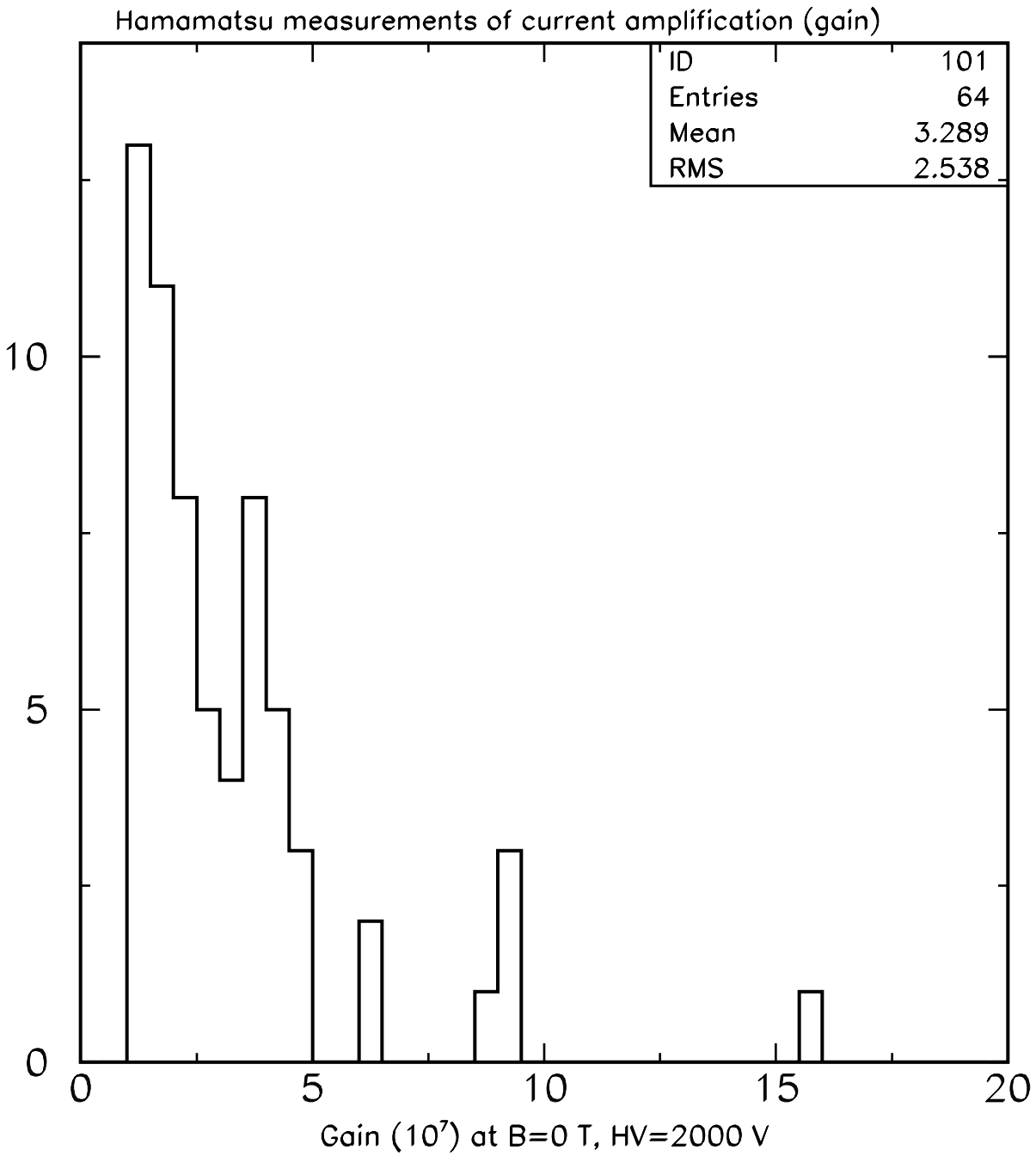
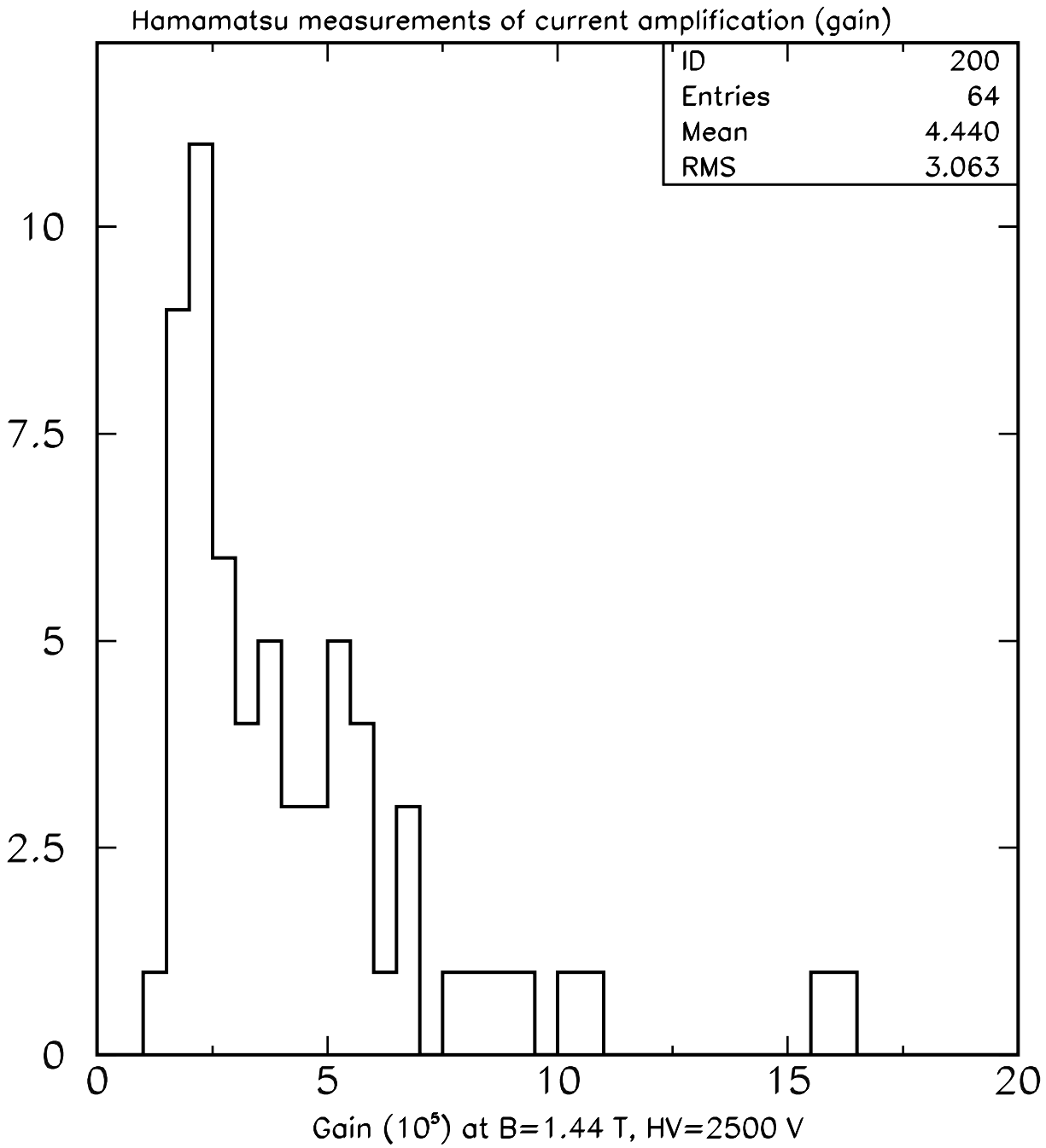
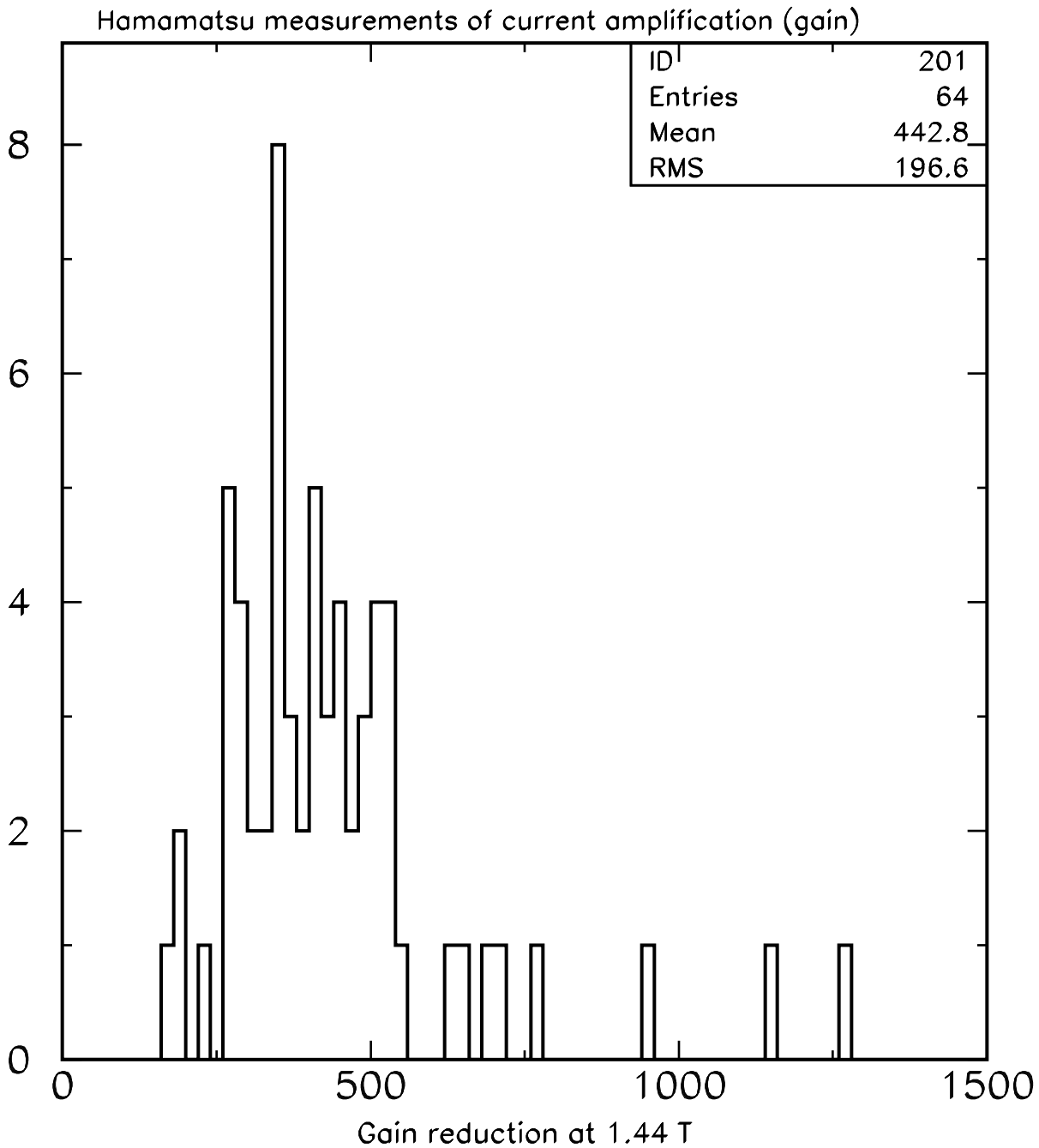
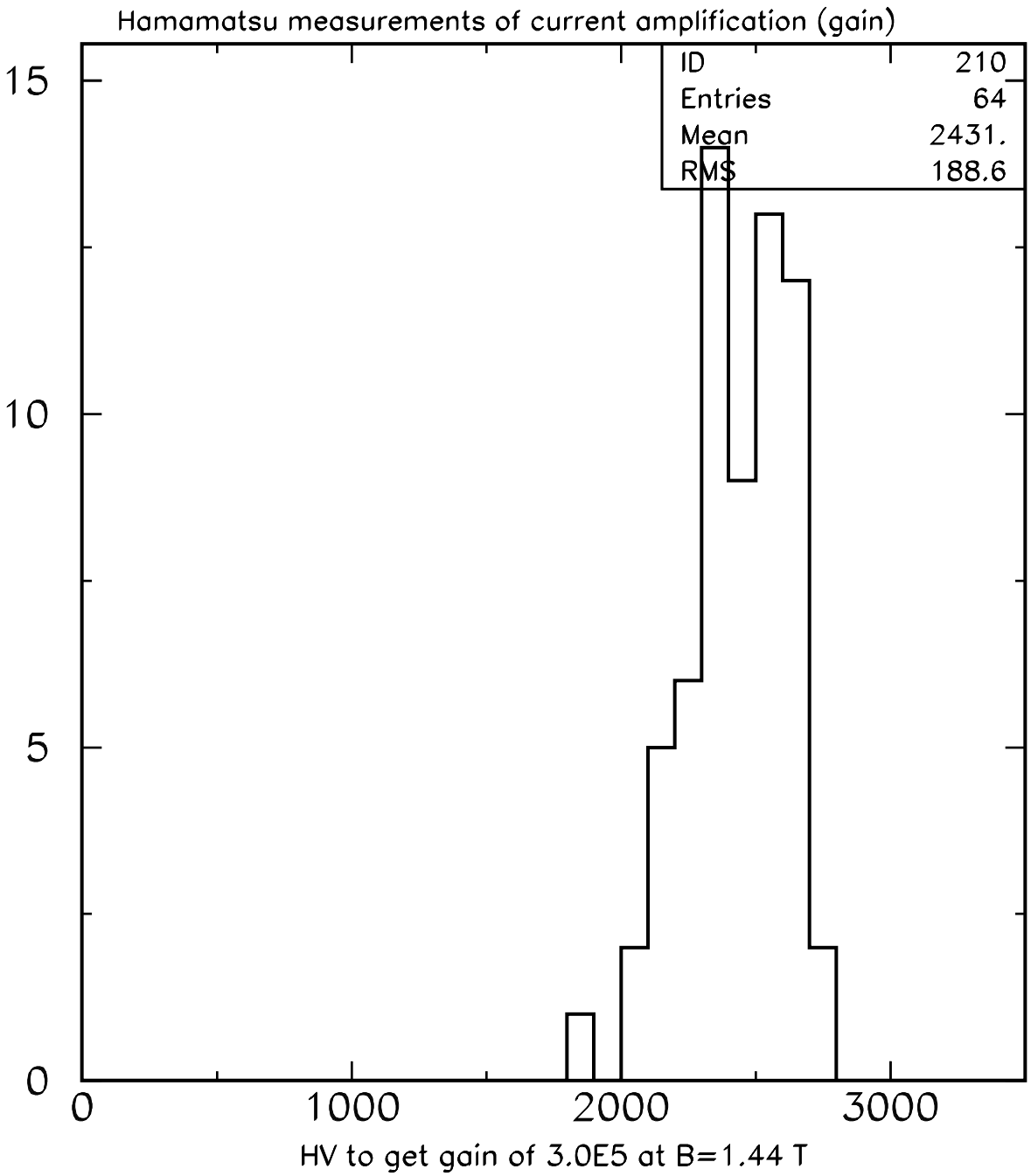
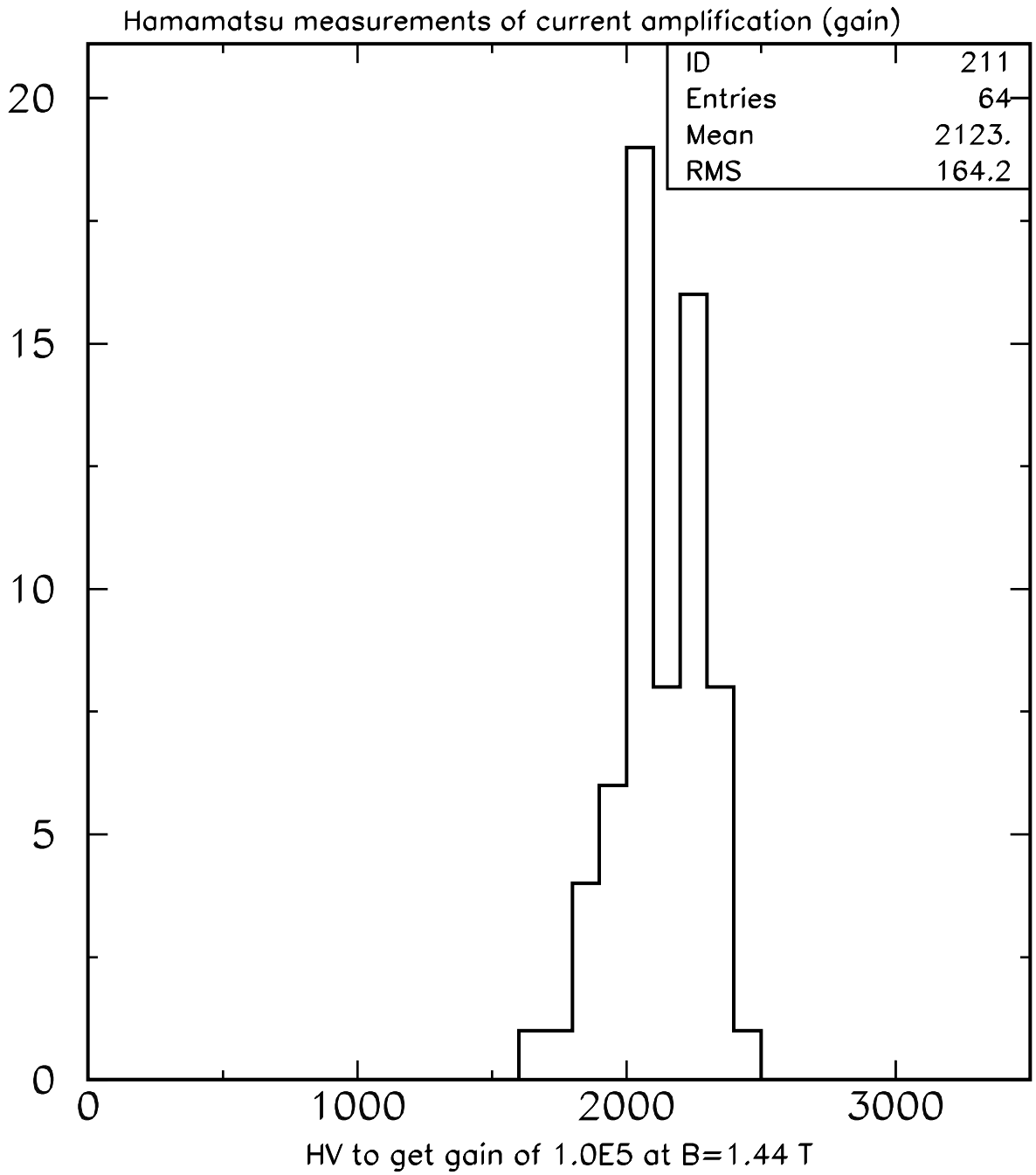

Hamamatsu measurements of current amplification (gain)
ID 100
Entries 70
Mean 3.586
RMS 2.773
Tubes / (5 x 10^5)
10
5
0
Measured by Hamamatsu
0
5
10
15
20
Gain (10^7) at HV = 2000 V and B = 0 T

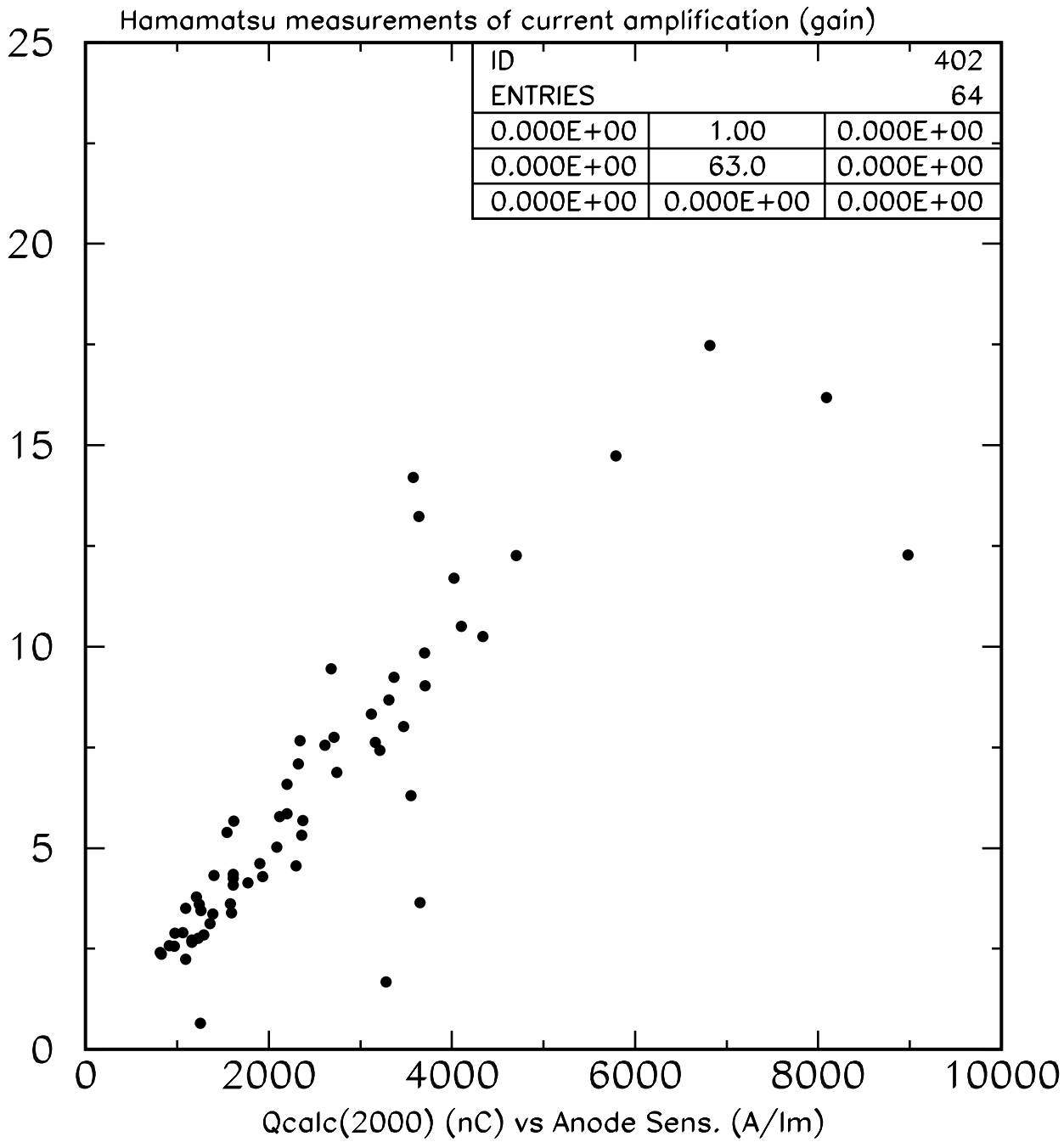

Hamamatsu measurements of current amplification (gain)
ID 101
Entries 64
Mean 3.289
RMS 2.538
10
5
0
0
5
10
15
20
Gain (10^7) at B=0 T, HV=2000 V

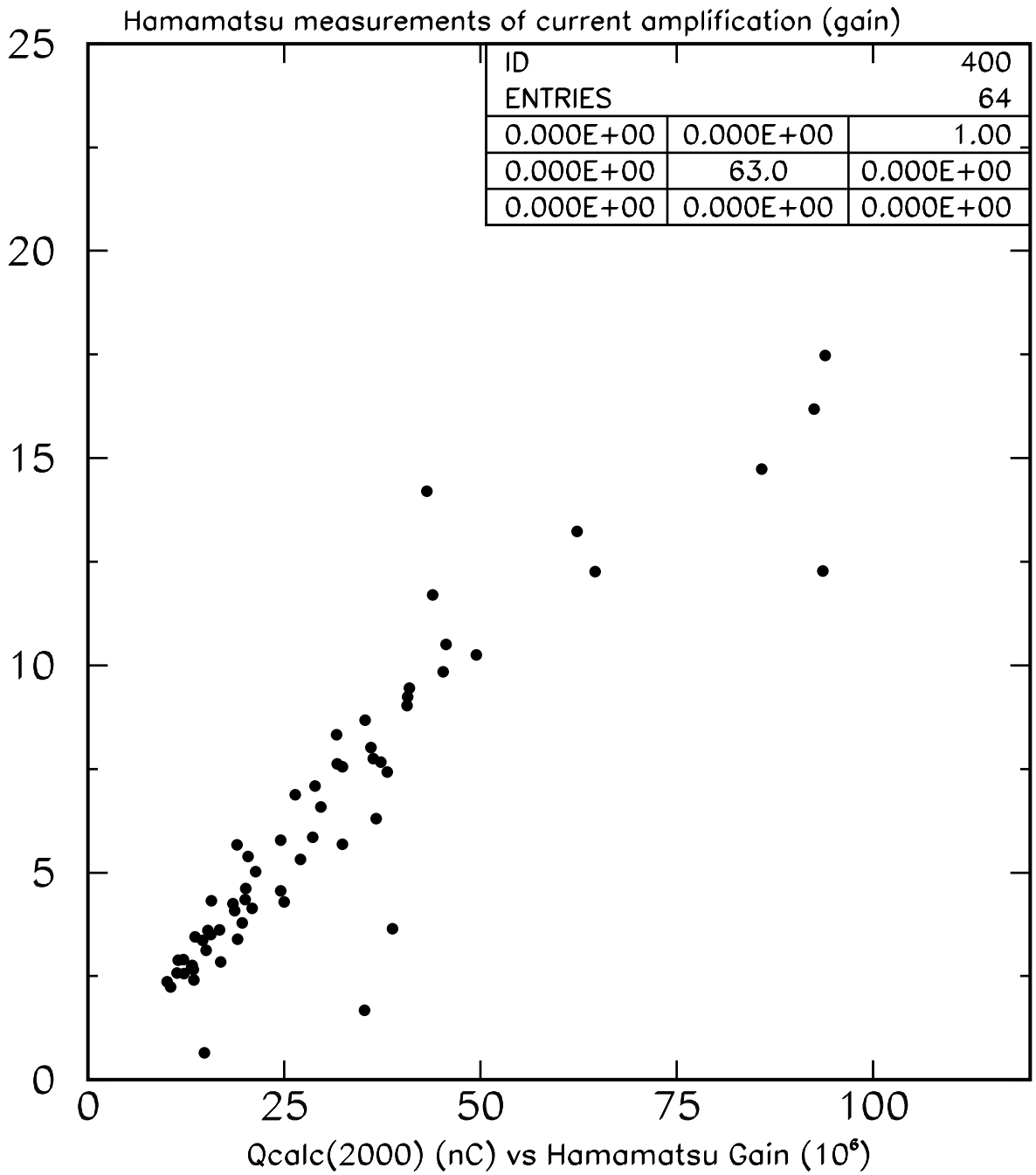

Hamamatsu measurements of current amplification (gain)
ID 200
Entries 64
Mean 4.440
RMS 3.063
10
7.5
5
2.5
0
0
5
10
15
20
Gain (10^5) at B=1.44 T, HV=2500 V

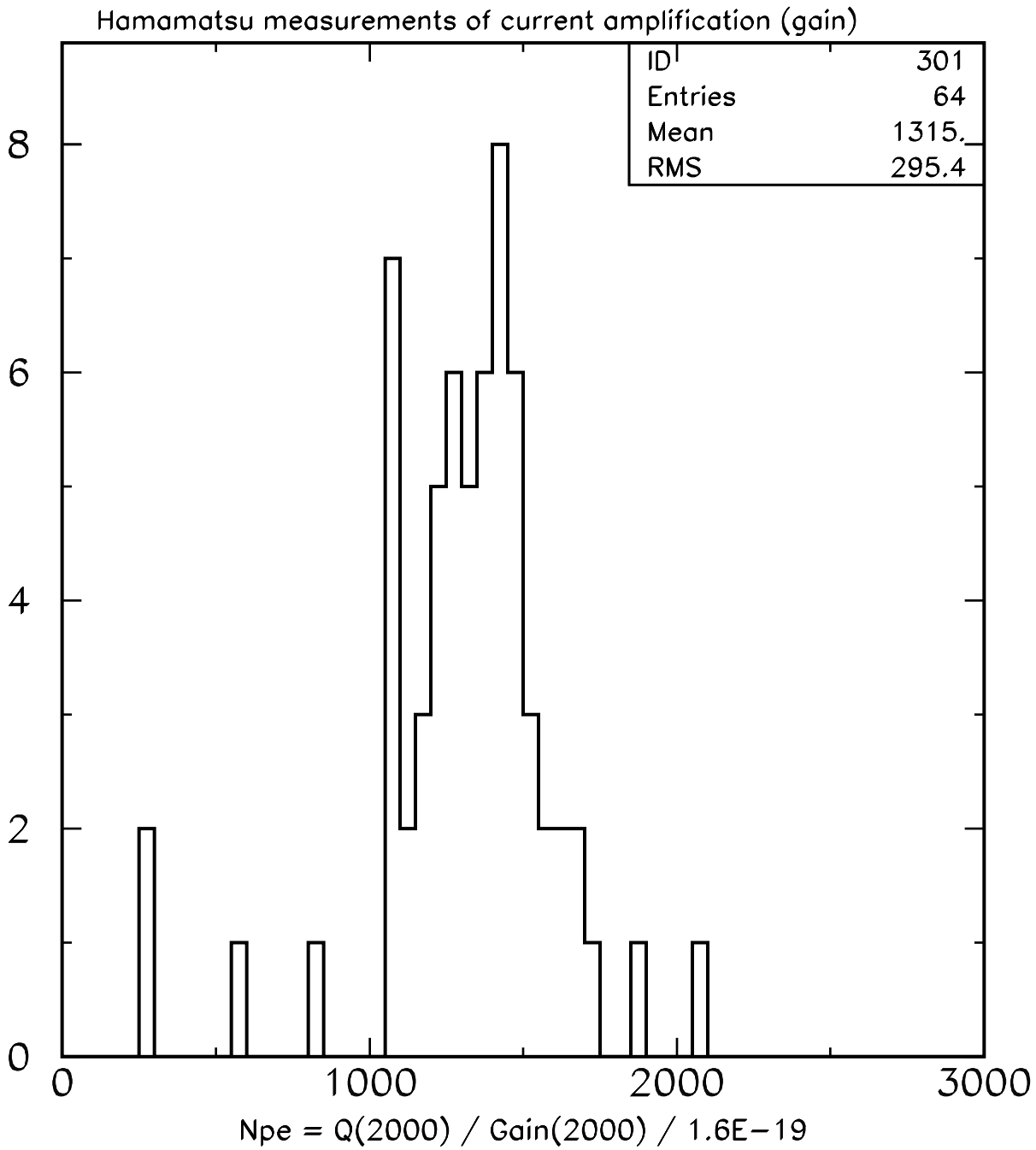

Hamamatsu measurements of current amplification (gain)
ID 201
Entries 64
Mean 442.8
RMS 196.6
0
2
4
6
8
0
500
1000
1500
Gain reduction at 1.44 T

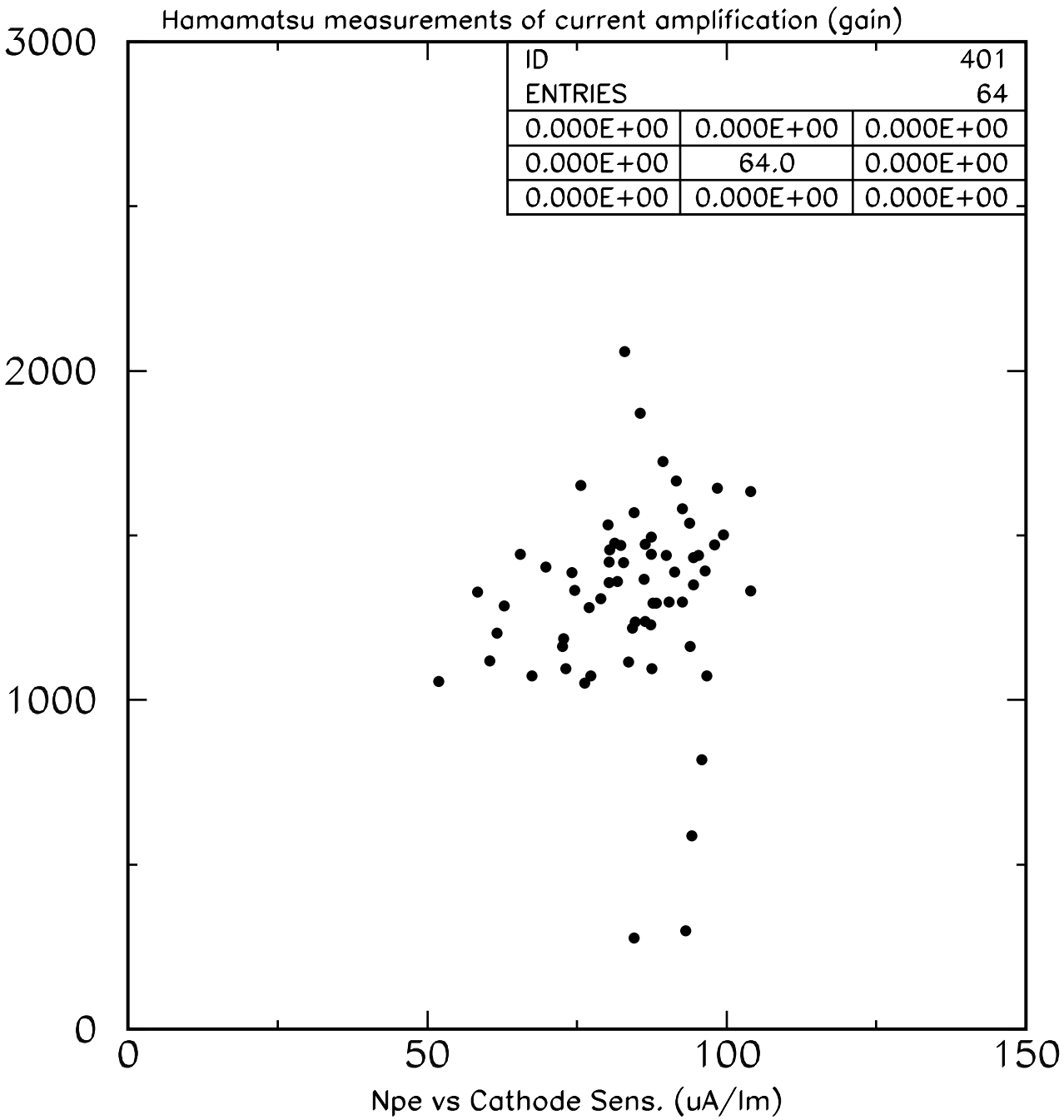

Hamamatsu measurements of current amplification (gain)
ID 210
Entries 64
Mean 2431.
RMS 188.6
15
10
5
0
0
1000
2000
3000
HV to get gain of 3.0E5 at B=1.44 T

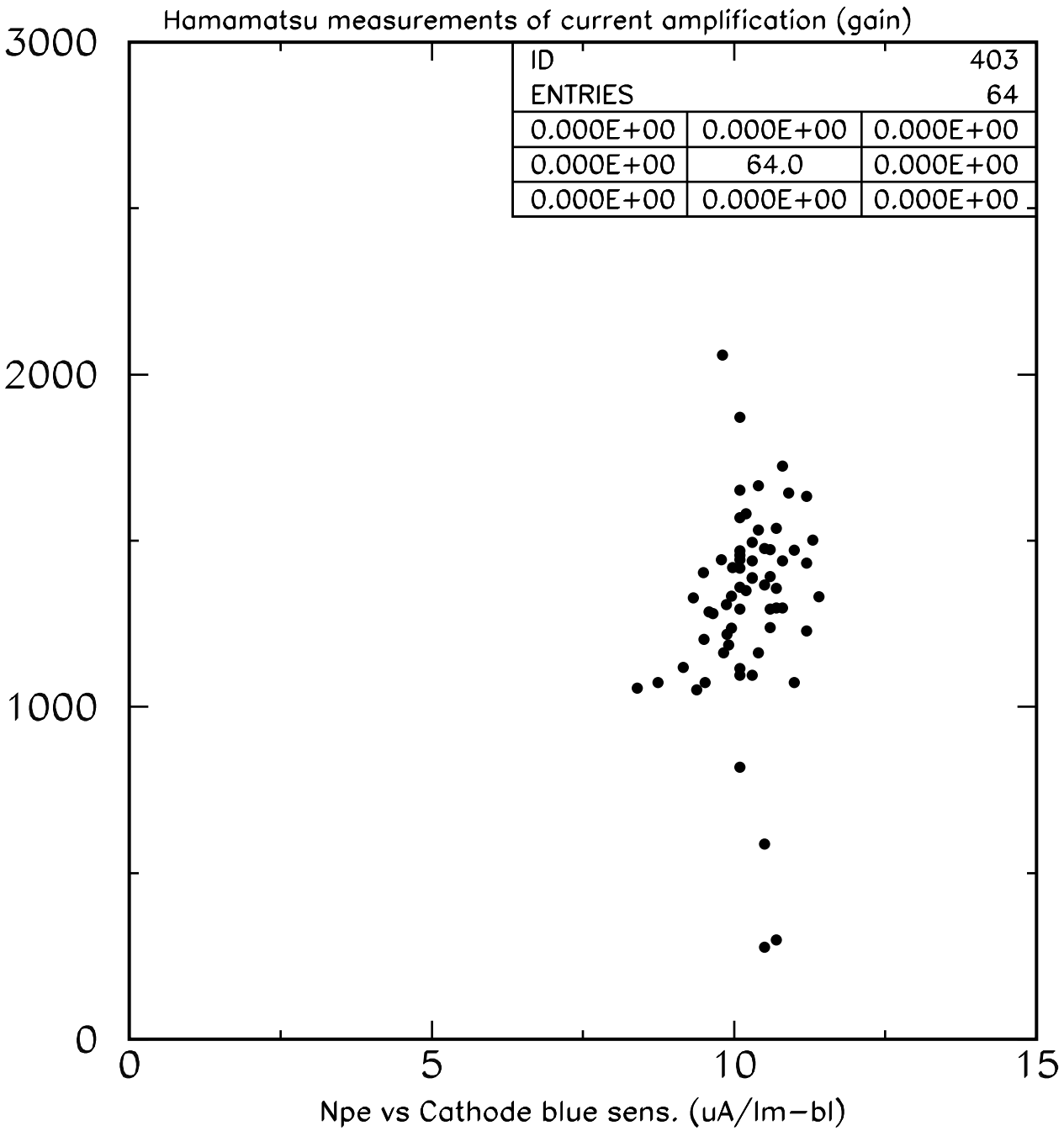

Hamamatsu measurements of current amplification (gain)
ID 211
Entries 64
Mean 2123.
RMS 164.2
20
15
10
5
0
0
1000
2000
3000
HV to get gain of 1.0E5 at B=1.44 T


Hamamatsu measurements of current amplification (gain)
ID 402
ENTRIES 64
0.000E+00 1.00 0.000E+00
0.000E+00 63.0 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)


Hamamatsu measurements of current amplification (gain)
ID 400
ENTRIES 64
0.000E+00 0.000E+00 1.00
0.000E+00 63.0 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)


Hamamatsu measurements of current amplification (gain)
ID 301
Entries 64
Mean 1315.
RMS 295.4
0
2
4
6
8
0
1000
2000
3000
Npe = Q(2000) / Gain(2000) / 1.6E−19


Hamamatsu measurements of current amplification (gain)
ID 401
ENTRIES 64
0.000E+00 0.000E+00 0.000E+00
0.000E+00 64.0 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)


Hamamatsu measurements of current amplification (gain)
ID 403
ENTRIES 64
0.000E+00 0.000E+00 0.000E+00
0.000E+00 64.0 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)