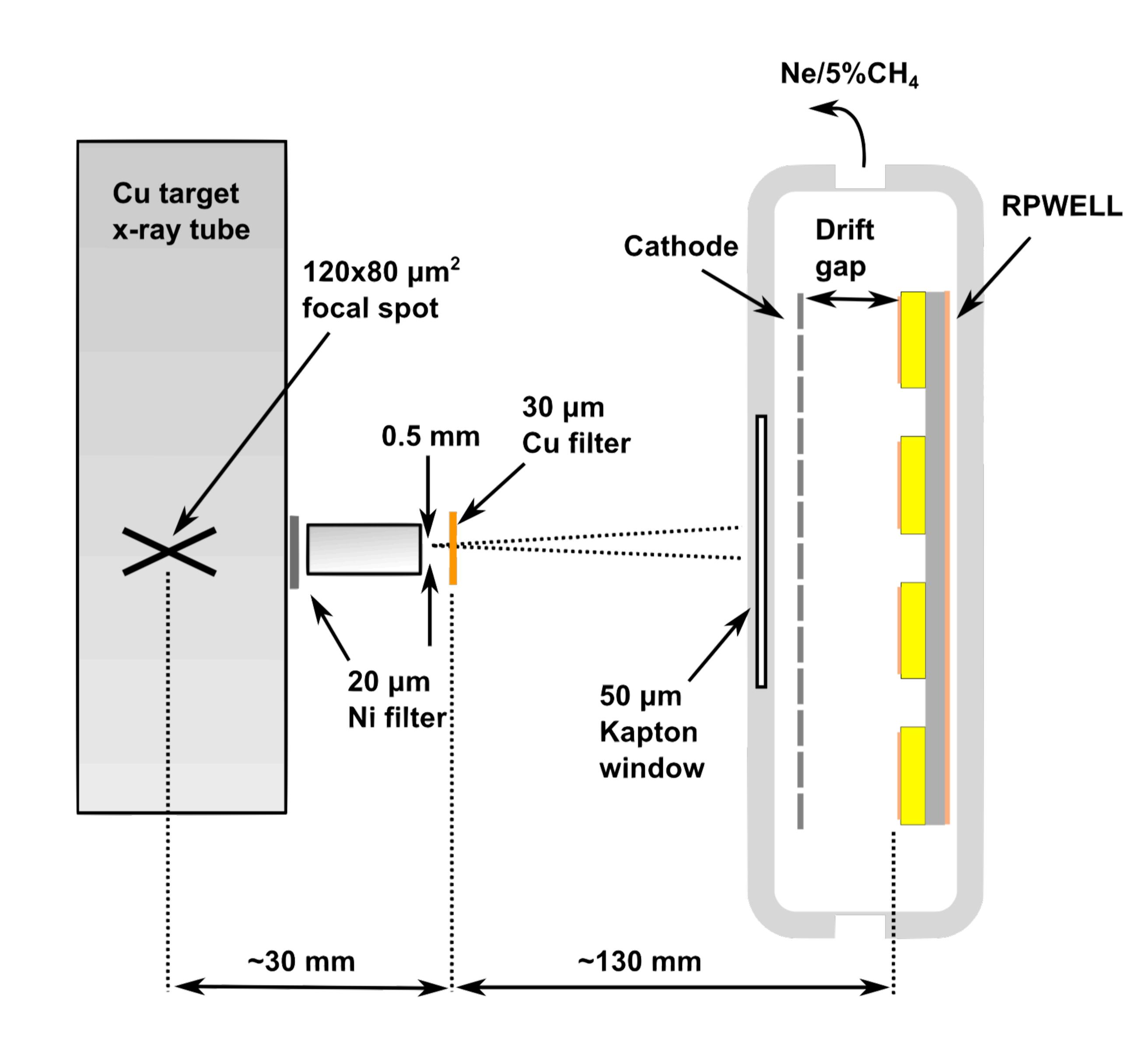
# RP-Well 测量的数据处理

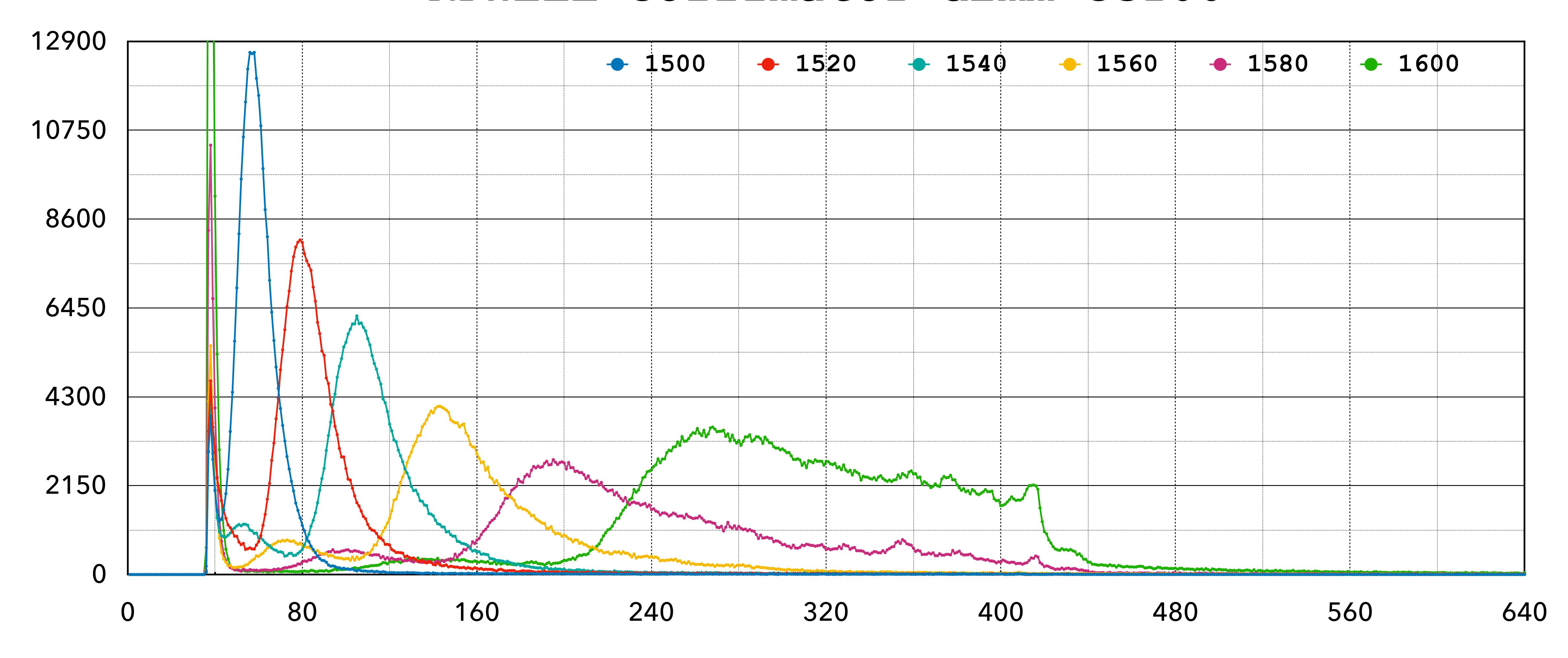
孙德旺西安交大 张宇轩西安交大 沈文涵 国科大 张艺涵 北京四中

## 实验原理及分析步骤

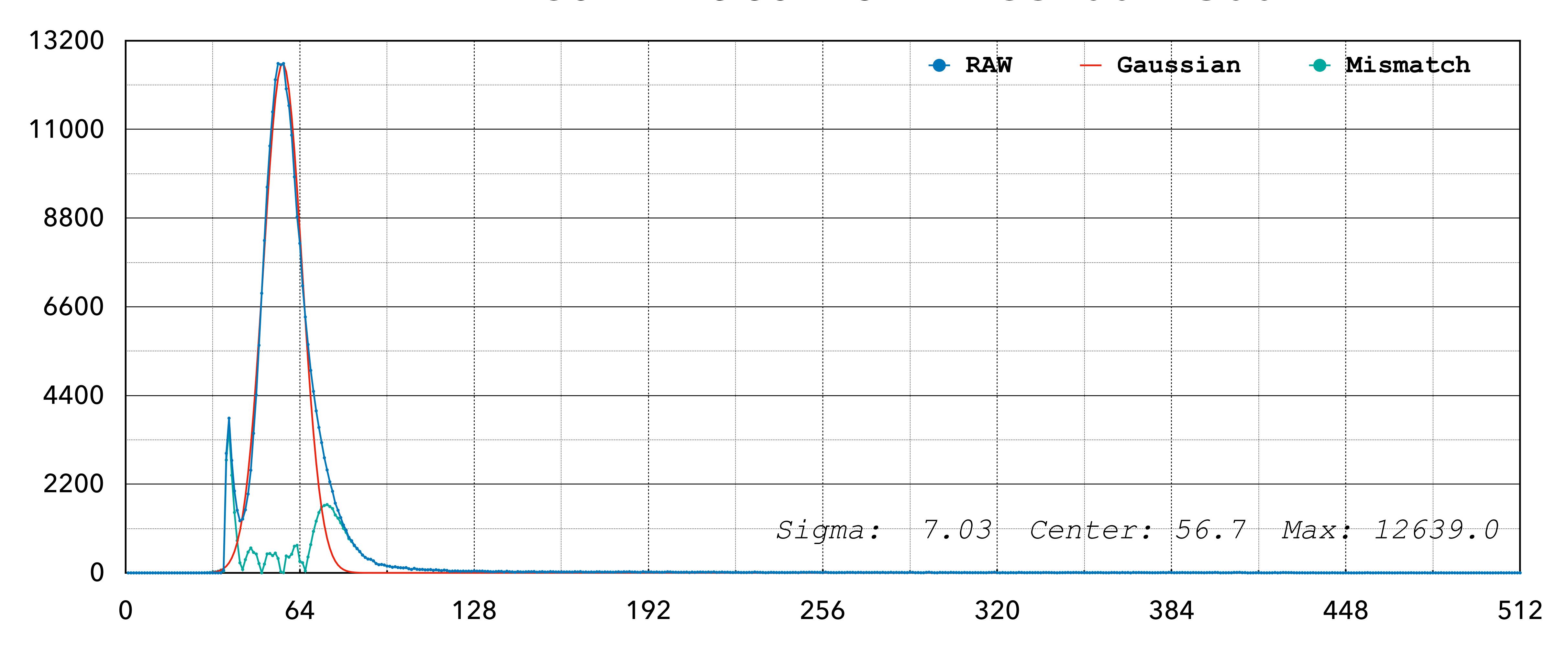
- 1. 绘制能谱
- 2. 高斯拟合
- 3. 电压-极值点拟合
- 4. 通道-电荷拟合
- 5. 极值点。电荷换算



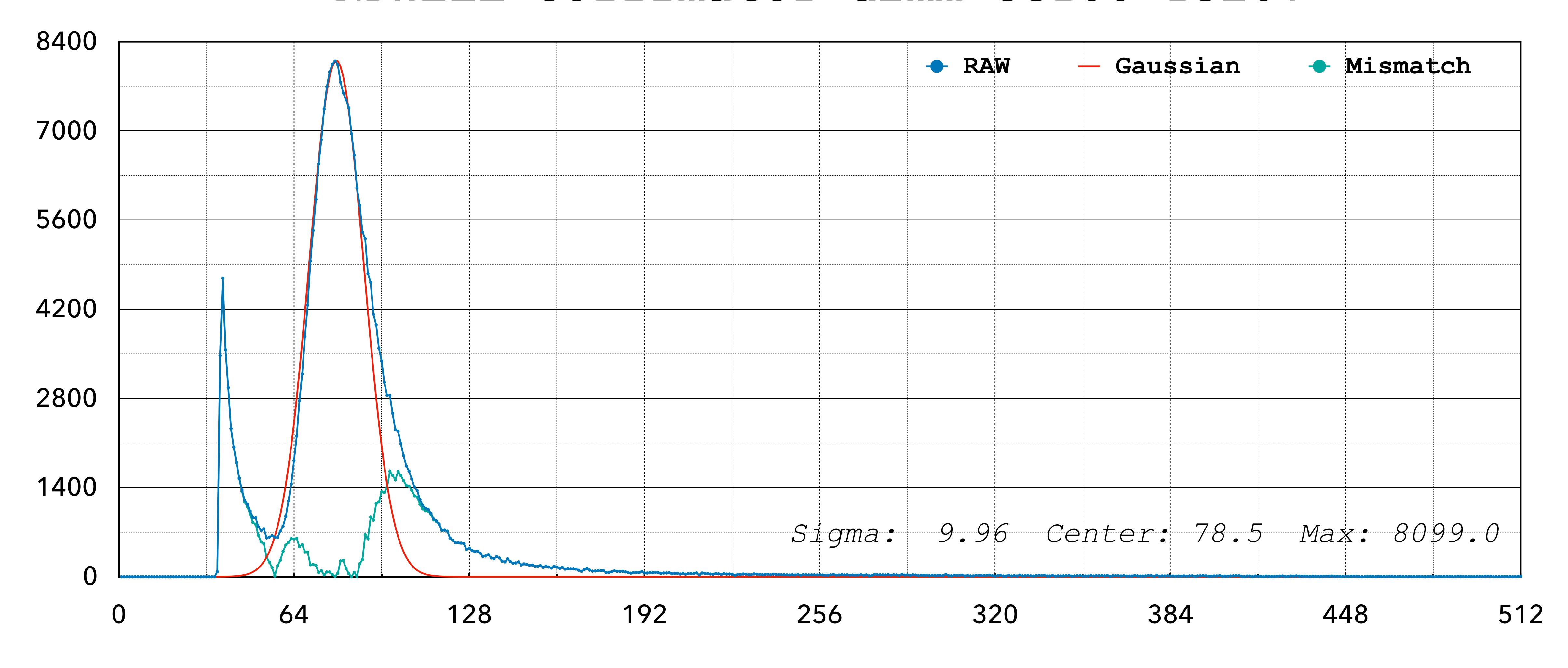
## RPWELL Collimator d2mm CG100



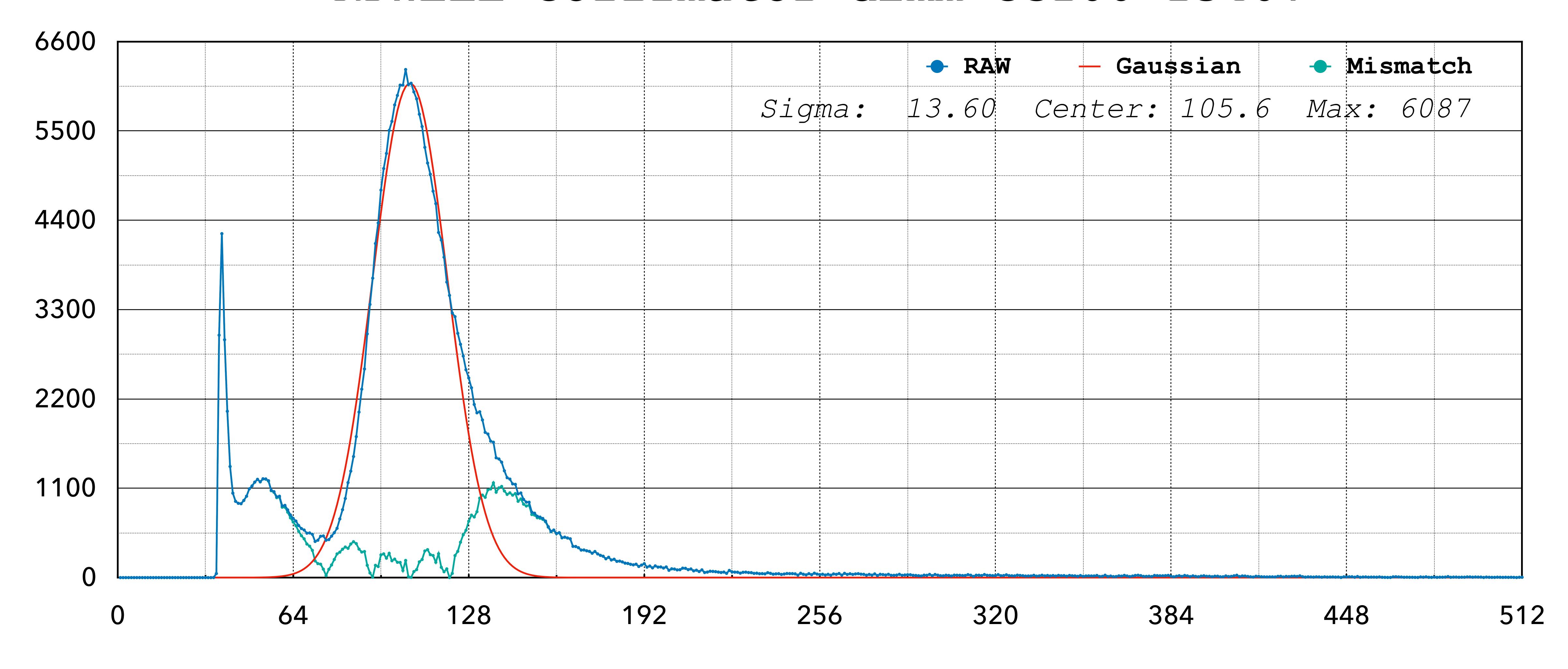
#### RPWELL Collimator d2mm CG100 1500V



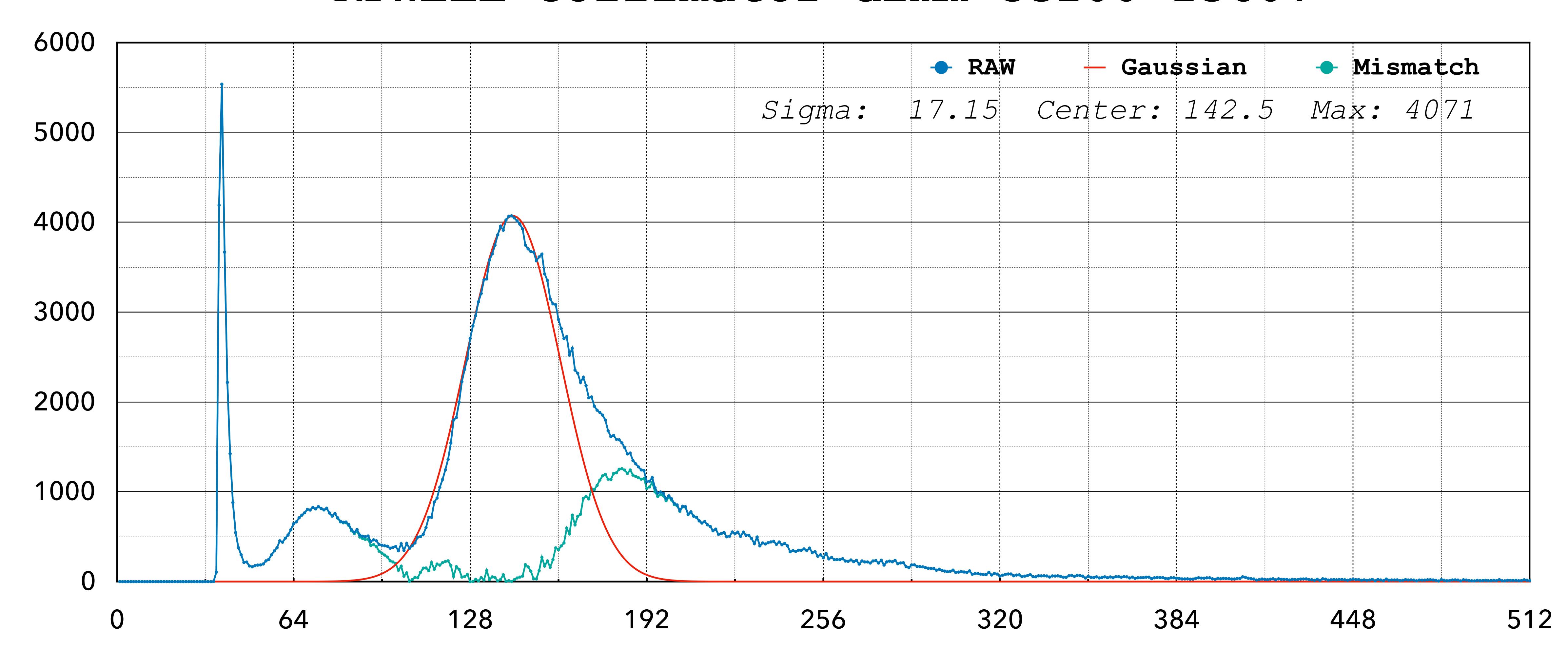
#### RPWELL Collimator d2mm CG100 1520V



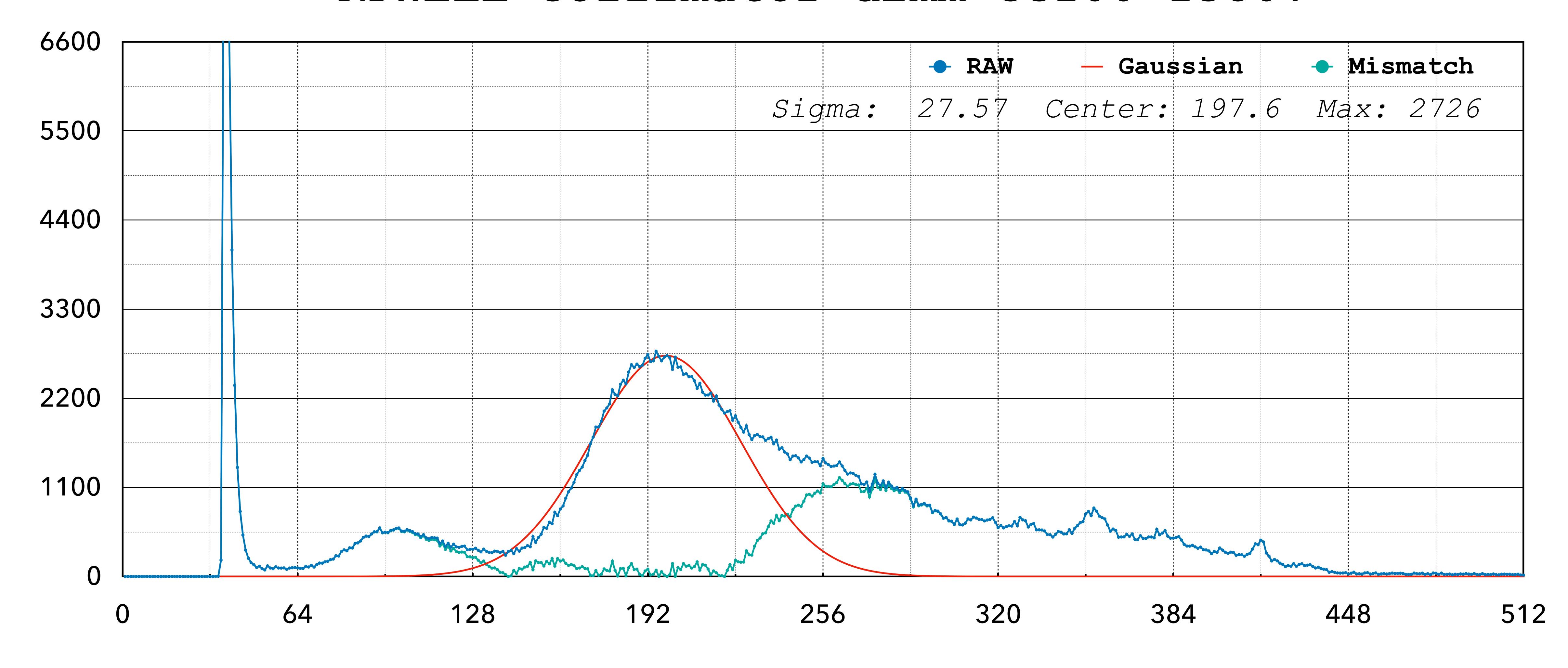
#### RPWELL Collimator d2mm CG100 1540V



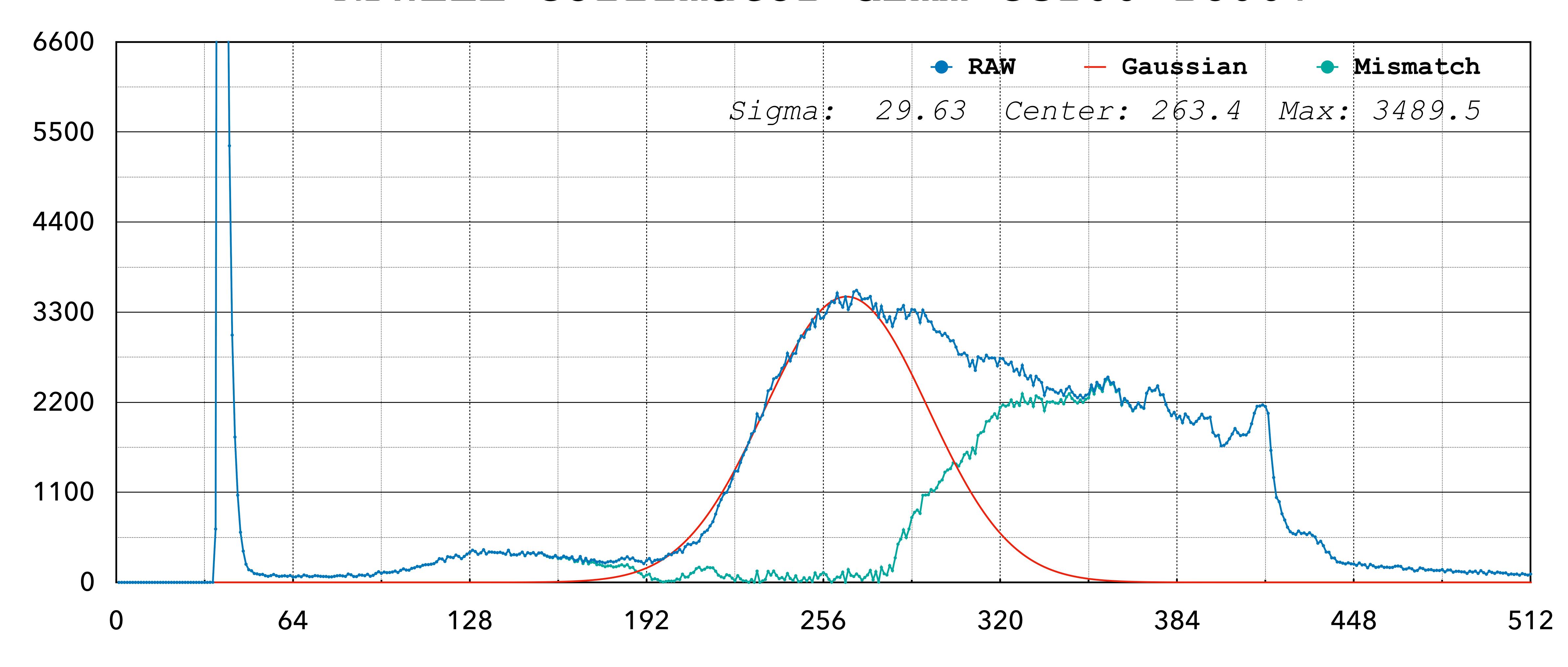
## RPWELL Collimator d2mm CG100 1560V



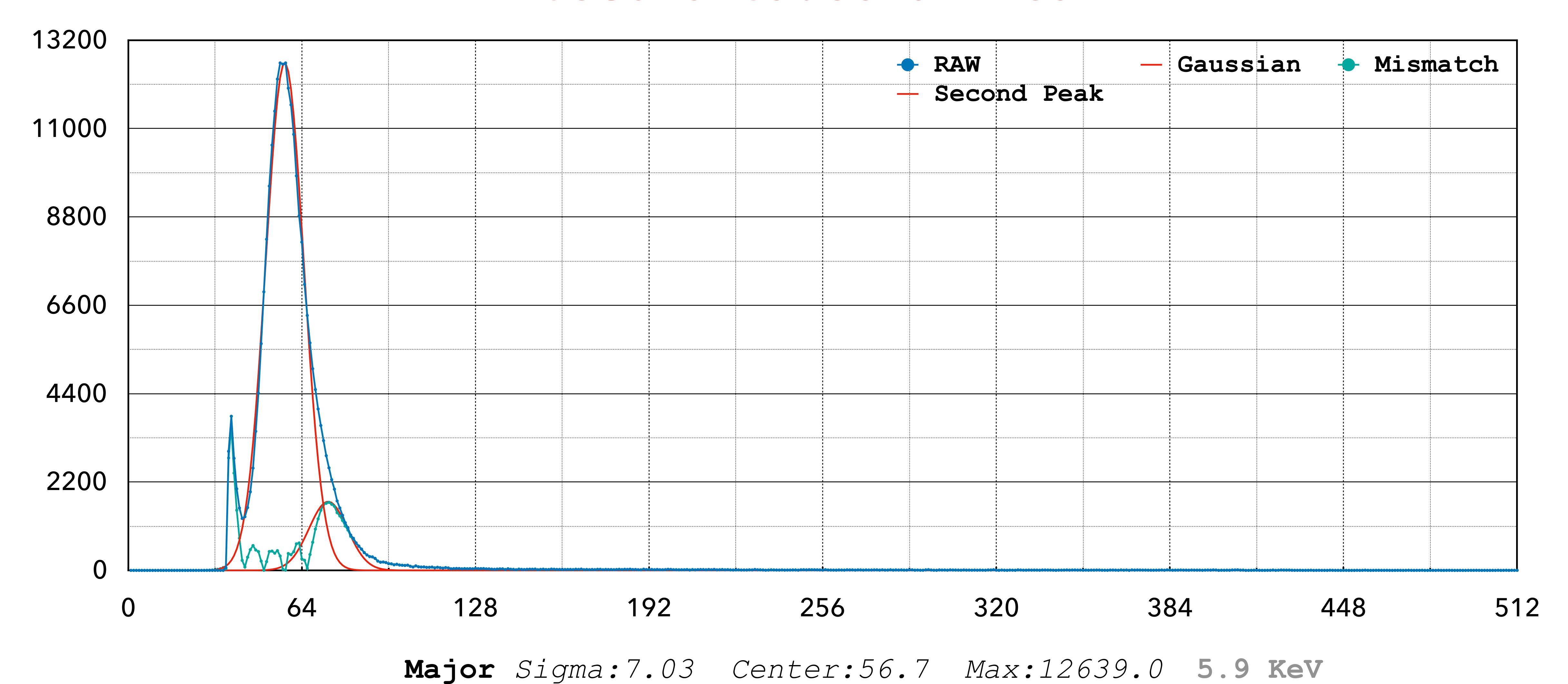
## RPWELL Collimator d2mm CG100 1580V



#### RPWELL Collimator d2mm CG100 1600V

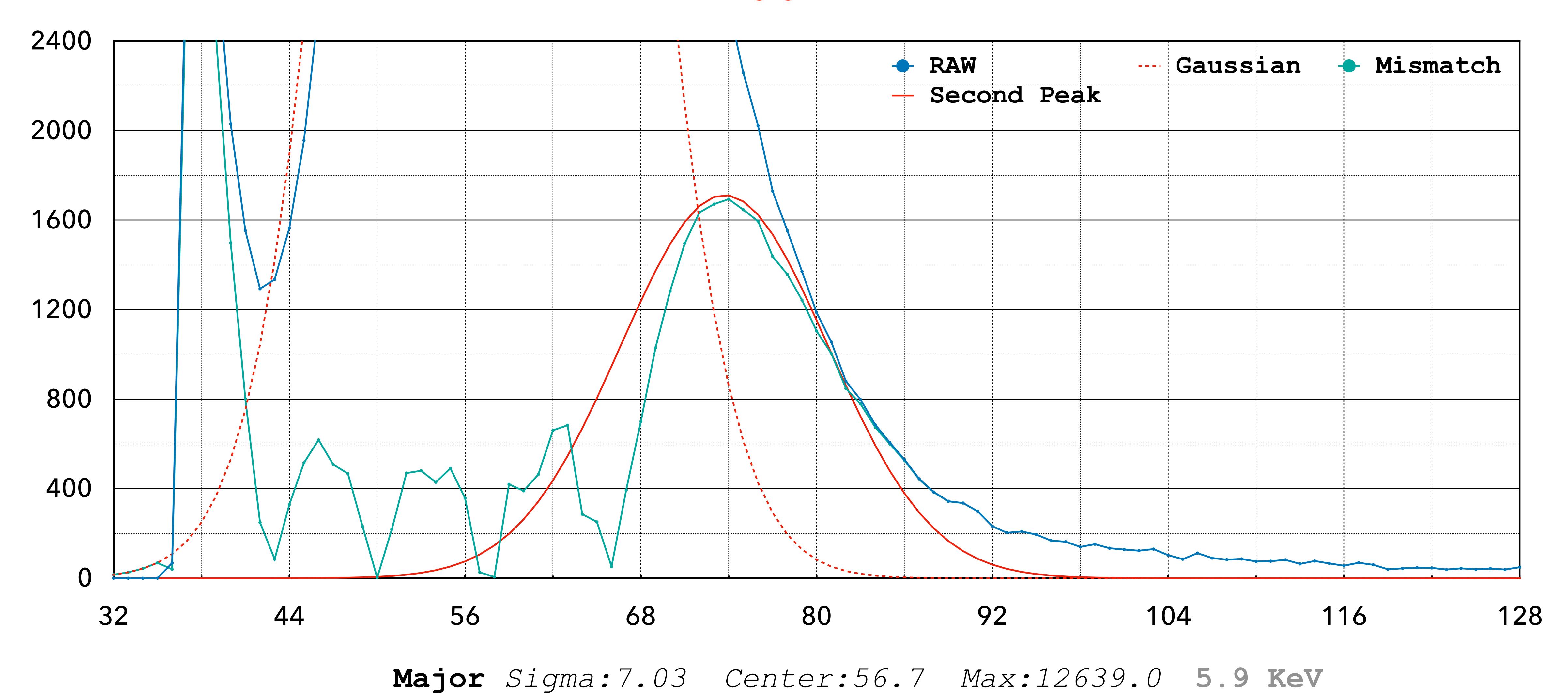


#### Second Gaussian Peak



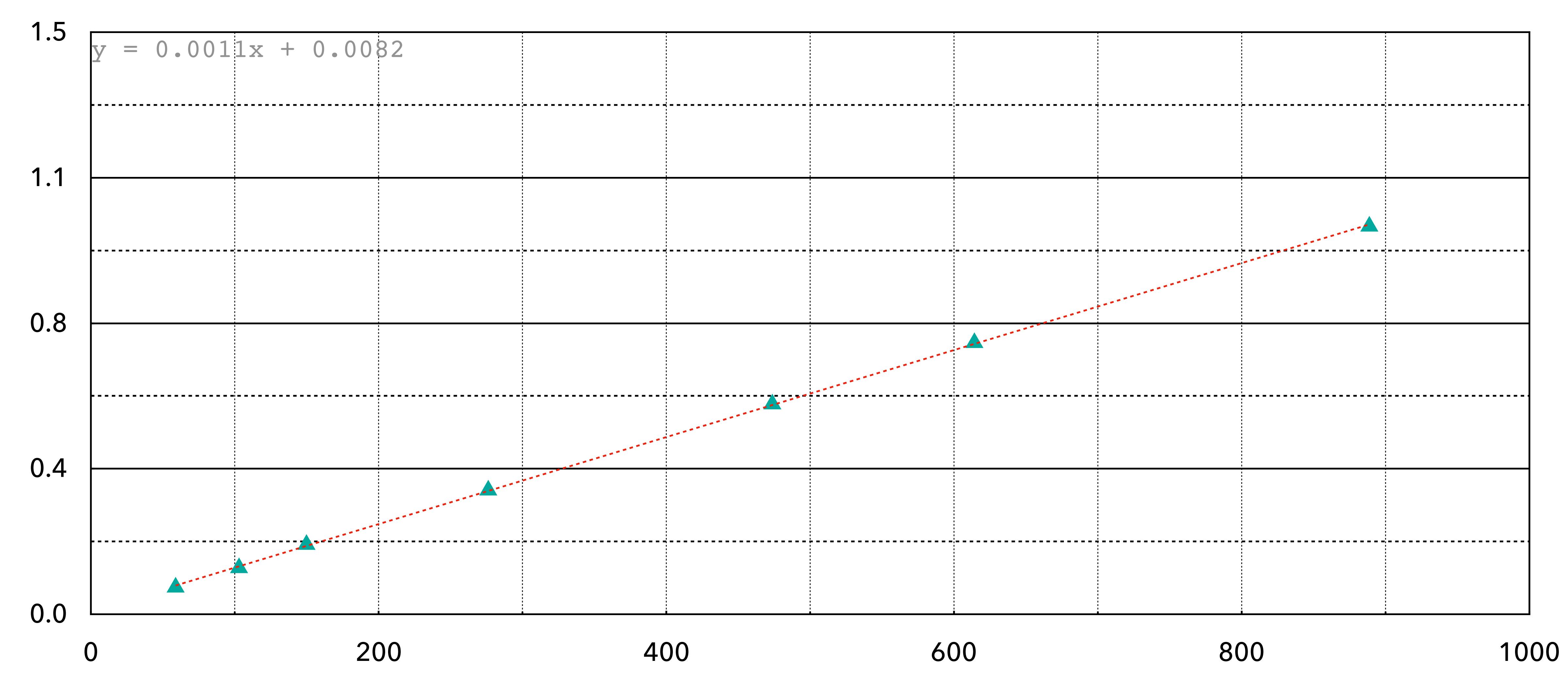
Minor Sigma: 7.08 Center: 72.7 Max: 1712 6.5 Kev

#### Zoom In

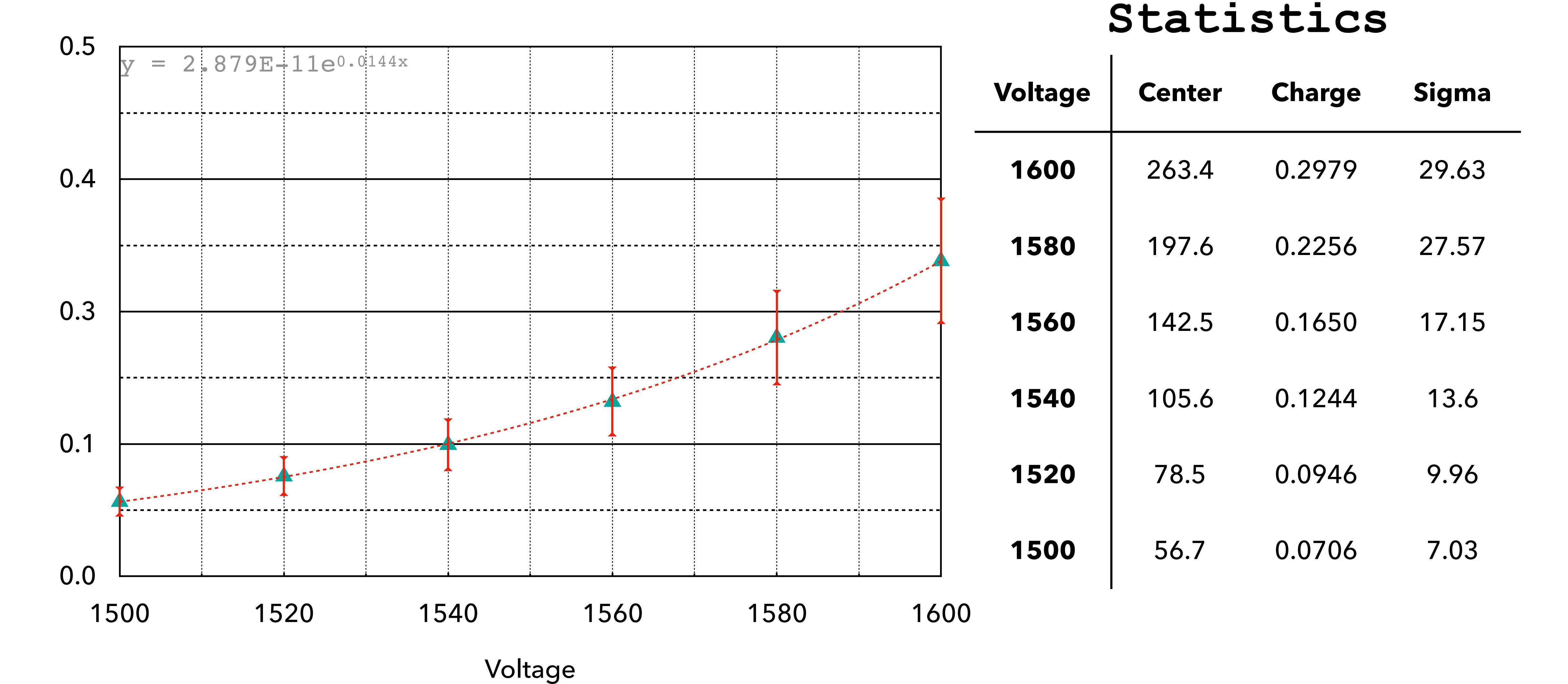


Minor Sigma: 7.08 Center: 72.7 Max: 1712 6.5 Kev





#### Charge



Gain  $y=e^{\beta+\alpha x} \alpha=0.0144 \beta=-14.05$ 

#### Statistics 10000.0 Voltage Charge Origin Gain 1600 0.2979 3.63E-058205.97 7500.0 3.63E-05 6212.46 1580 0.2256 5000.0 3.63E-05 4543.11 1560 0.1650 3.63E-05 3425.17 1540 0.1244 2500.0 1520 3.63E-052604.13 0.0946 1500 3.63E-051943.67 0.0706

1580

1600

Voltage

1560

1540

1500

1520