## Bead 2801

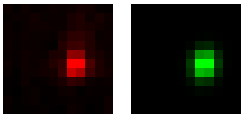
Date : Mon Oct 17 13:53:45 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

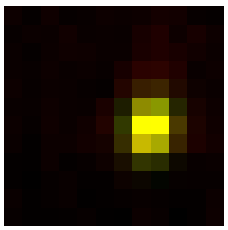
Coordinates : 73.6 um (x), -36.9 um (y), 53.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 422 nm | 440 nm | 270 nm |
| **max** | 542 nm | 564 nm | 270 nm |
| **z** | 2.03 um | 2.03 um | 1.3 um |
| **Asymmetry** | 0.779 | | |
| **Theta** | 81.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

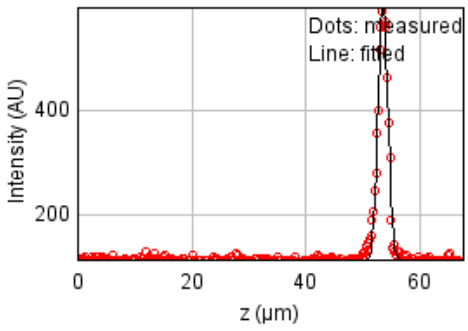




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.955

Parameters:
A = 528.950 (brightness)
B = 122.682 (background)
a = 0.746 px
b = 0.044 px
c = 0.463 px
xc = 7.495 px
yc = 6.108 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 26536.4529
Standard deviation: 9.29720
R^2: 0.98318
Parameters:
a = 113.23572
b = 597.39936
c = 53.58312
d = 0.86005

## Bead 2802 (Rejected)

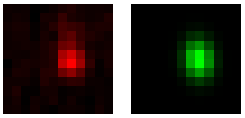
Date : Mon Oct 17 13:53:45 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

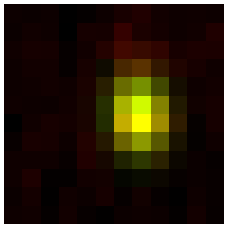
Coordinates : 30.6 um (x), -56.1 um (y), 52.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 521 nm | 542 nm | 270 nm |
| **max** | 719 nm | 749 nm | 270 nm |
| **z** | 2.14 um | 2.15 um | 1.3 um |
| **Asymmetry** | 0.725 | | |
| **Theta** | -84.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

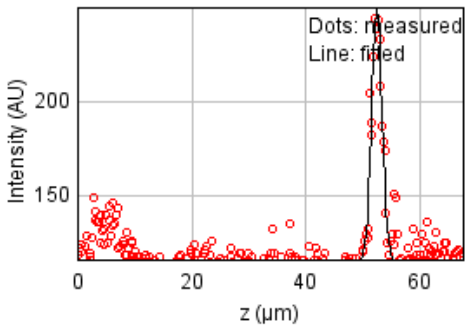




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.927

Parameters:
A = 224.014 (brightness)
B = 120.694 (background)
a = 0.492 px
b = -0.024 px
c = 0.262 px
xc = 6.866 px
yc = 5.524 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 30189.8964
Standard deviation: 9.91657
R^2: 0.80470
Parameters:
a = 116.03821
b = 249.56637
c = 52.51334
d = 0.90919

## Bead 2803

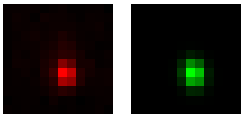
Date : Mon Oct 17 13:53:45 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

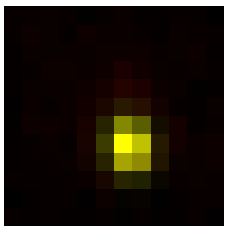
Coordinates : -31.2 um (x), -76.7 um (y), 53.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 392 nm | 408 nm | 270 nm |
| **max** | 502 nm | 523 nm | 270 nm |
| **z** | 2.15 um | 2.16 um | 1.3 um |
| **Asymmetry** | 0.78 | | |
| **Theta** | -81.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

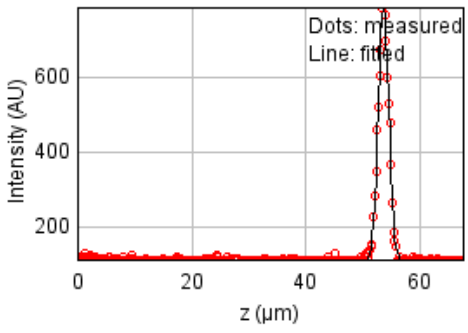




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.972

Parameters:
A = 757.813 (brightness)
B = 127.448 (background)
a = 0.866 px
b = -0.050 px
c = 0.539 px
xc = 6.348 px
yc = 7.121 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19976.8762
Standard deviation: 8.06668
R^2: 0.99366
Parameters:
a = 114.44315
b = 782.60857
c = 53.68297
d = 0.91443

## Bead 2804

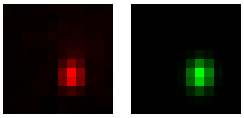
Date : Mon Oct 17 13:53:45 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

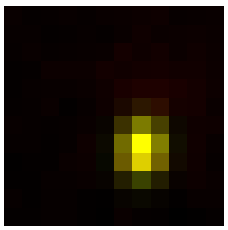
Coordinates : -159 um (x), 91.6 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 412 nm | 429 nm | 270 nm |
| **max** | 536 nm | 558 nm | 270 nm |
| **z** | 2.09 um | 2.1 um | 1.3 um |
| **Asymmetry** | 0.769 | | |
| **Theta** | 85.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

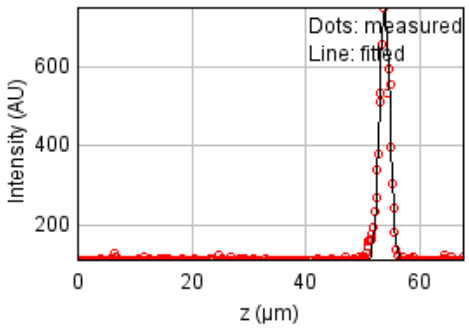




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.967

Parameters:
A = 752.305 (brightness)
B = 124.543 (background)
a = 0.787 px
b = 0.027 px
c = 0.469 px
xc = 7.043 px
yc = 7.273 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 61127.8131
Standard deviation: 14.11075
R^2: 0.97847
Parameters:
a = 111.72008
b = 749.47815
c = 53.88478
d = 0.88932

## Bead 2805

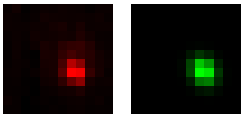
Date : Mon Oct 17 13:53:45 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

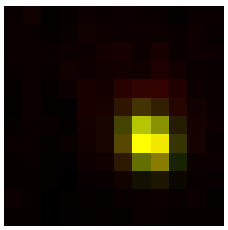
Coordinates : 24.9 um (x), 89.3 um (y), 53.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 425 nm | 443 nm | 270 nm |
| **max** | 522 nm | 543 nm | 270 nm |
| **z** | 1.9 um | 1.91 um | 1.3 um |
| **Asymmetry** | 0.815 | | |
| **Theta** | -62.7° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

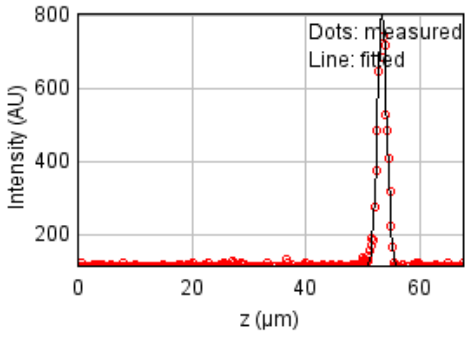




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 635.702 (brightness)
B = 125.587 (background)
a = 0.690 px
b = -0.102 px
c = 0.545 px
xc = 7.400 px
yc = 6.814 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 59815.3265
Standard deviation: 13.95845
R^2: 0.98019
Parameters:
a = 114.90970
b = 803.87995
c = 53.41636
d = 0.80826

## Bead 2806

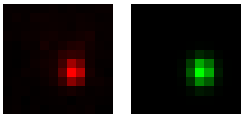
Date : Mon Oct 17 13:53:45 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

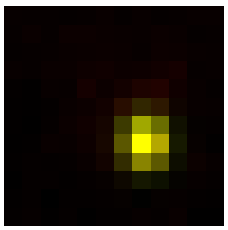
Coordinates : 34.8 um (x), 88.1 um (y), 53.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 424 nm | 441 nm | 270 nm |
| **max** | 499 nm | 519 nm | 270 nm |
| **z** | 1.94 um | 1.95 um | 1.3 um |
| **Asymmetry** | 0.85 | | |
| **Theta** | -87.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

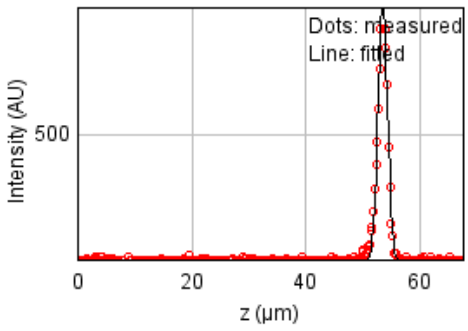




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.971

Parameters:
A = 812.535 (brightness)
B = 125.166 (background)
a = 0.747 px
b = -0.009 px
c = 0.540 px
xc = 7.218 px
yc = 6.892 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 41961.3233
Standard deviation: 11.69110
R^2: 0.98937
Parameters:
a = 115.01918
b = 898.88070
c = 53.55242
d = 0.82465

## Bead 2807

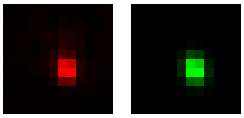
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

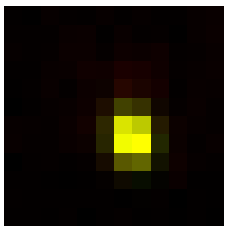
Coordinates : -73.2 um (x), 85.3 um (y), 53.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 373 nm | 388 nm | 270 nm |
| **max** | 486 nm | 506 nm | 270 nm |
| **z** | 2.1 um | 2.1 um | 1.3 um |
| **Asymmetry** | 0.768 | | |
| **Theta** | -79.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

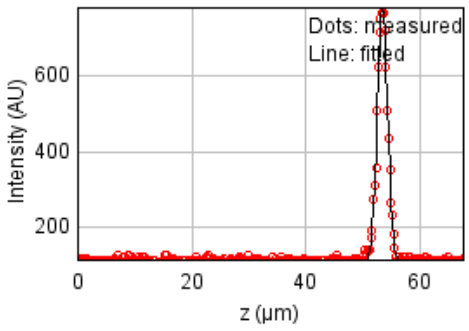




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.980

Parameters:
A = 888.809 (brightness)
B = 122.453 (background)
a = 0.952 px
b = -0.070 px
c = 0.581 px
xc = 6.480 px
yc = 6.646 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 23960.4987
Standard deviation: 8.83443
R^2: 0.99208
Parameters:
a = 114.66484
b = 777.44379
c = 53.48572
d = 0.88991

## Bead 2808 (Rejected)

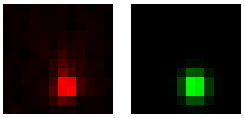
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

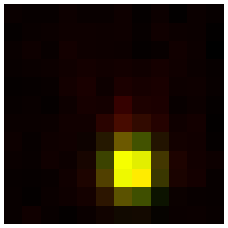
Coordinates : -5.62 um (x), 58.5 um (y), 29.6 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 437 nm | 455 nm | 270 nm |
| **max** | 499 nm | 520 nm | 270 nm |
| **z** | 3.11 um | 3.13 um | 1.3 um |
| **Asymmetry** | 0.875 | | |
| **Theta** | -87.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

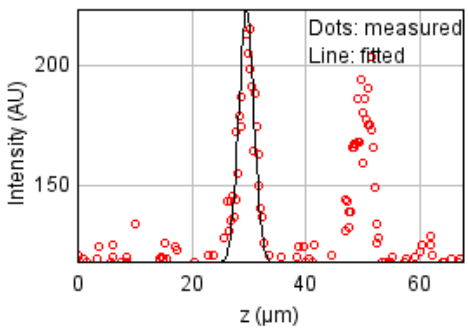




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.950

Parameters:
A = 512.399 (brightness)
B = 126.192 (background)
a = 0.703 px
b = -0.008 px
c = 0.539 px
xc = 6.457 px
yc = 8.481 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 90120.2780
Standard deviation: 17.13334
R^2: 0.54907
Parameters:
a = 118.46119
b = 223.65088
c = 29.64001
d = 1.32244

## Bead 2809

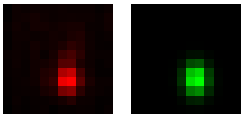
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

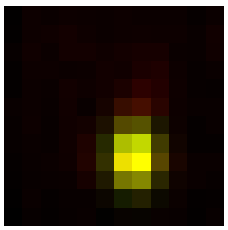
Coordinates : 109 um (x), 9.85 um (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 434 nm | 453 nm | 270 nm |
| **max** | 578 nm | 602 nm | 270 nm |
| **z** | 2.16 um | 2.17 um | 1.3 um |
| **Asymmetry** | 0.751 | | |
| **Theta** | -89.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

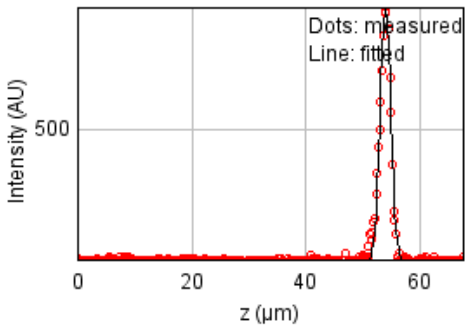




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 807.249 (brightness)
B = 130.302 (background)
a = 0.711 px
b = -0.005 px
c = 0.401 px
xc = 6.592 px
yc = 7.707 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 64660.7715
Standard deviation: 14.51280
R^2: 0.98377
Parameters:
a = 113.68475
b = 860.58590
c = 54.02177
d = 0.91623

## Bead 2810

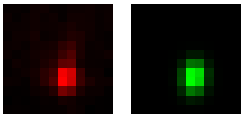
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

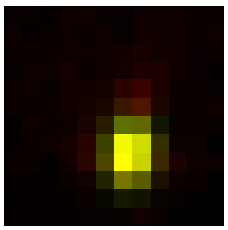
Coordinates : 102 um (x), -13.0 um (y), 53.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 425 nm | 442 nm | 270 nm |
| **max** | 582 nm | 606 nm | 270 nm |
| **z** | 1.97 um | 1.98 um | 1.3 um |
| **Asymmetry** | 0.729 | | |
| **Theta** | 84.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

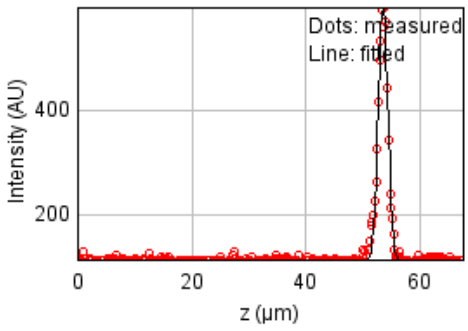




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.945

Parameters:
A = 535.963 (brightness)
B = 124.049 (background)
a = 0.741 px
b = 0.031 px
c = 0.399 px
xc = 6.390 px
yc = 7.488 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 25213.2202
Standard deviation: 9.06244
R^2: 0.98369
Parameters:
a = 112.77599
b = 598.74776
c = 53.59717
d = 0.83582

## Bead 2811

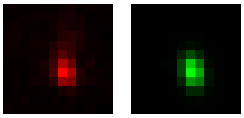
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

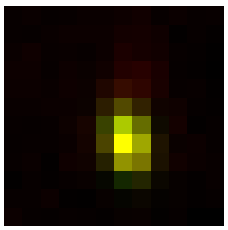
Coordinates : 130 um (x), -20.3 um (y), 53.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 387 nm | 403 nm | 270 nm |
| **max** | 598 nm | 623 nm | 270 nm |
| **z** | 2.06 um | 2.06 um | 1.3 um |
| **Asymmetry** | 0.648 | | |
| **Theta** | -78.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

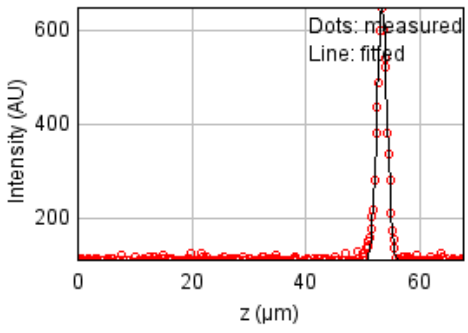




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.944

Parameters:
A = 528.552 (brightness)
B = 122.439 (background)
a = 0.875 px
b = -0.098 px
c = 0.395 px
xc = 6.242 px
yc = 6.858 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 28579.7024
Standard deviation: 9.64850
R^2: 0.98544
Parameters:
a = 110.70911
b = 647.56074
c = 53.40910
d = 0.87294

## Bead 2812

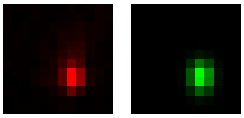
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

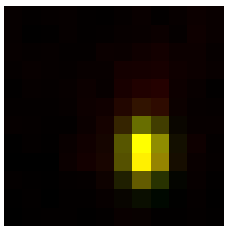
Coordinates : 66.7 um (x), -31.7 um (y), 54.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 399 nm | 415 nm | 270 nm |
| **max** | 544 nm | 567 nm | 270 nm |
| **z** | 1.86 um | 1.87 um | 1.3 um |
| **Asymmetry** | 0.733 | | |
| **Theta** | 89.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

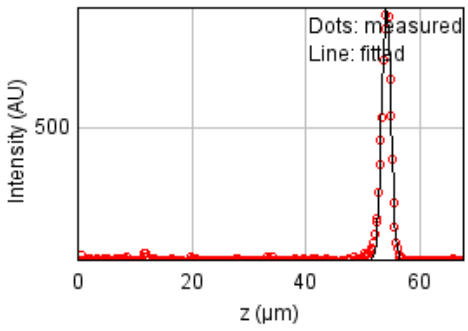




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.960

Parameters:
A = 800.167 (brightness)
B = 126.100 (background)
a = 0.844 px
b = 0.003 px
c = 0.454 px
xc = 7.146 px
yc = 7.432 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 43788.1193
Standard deviation: 11.94288
R^2: 0.98712
Parameters:
a = 113.89857
b = 855.78179
c = 54.17709
d = 0.78923

## Bead 2813

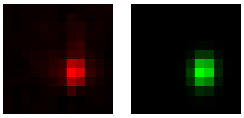
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

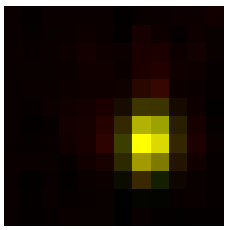
Coordinates : 61.9 um (x), -36.6 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 411 nm | 428 nm | 270 nm |
| **max** | 561 nm | 584 nm | 270 nm |
| **z** | 2.1 um | 2.1 um | 1.3 um |
| **Asymmetry** | 0.732 | | |
| **Theta** | 84.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

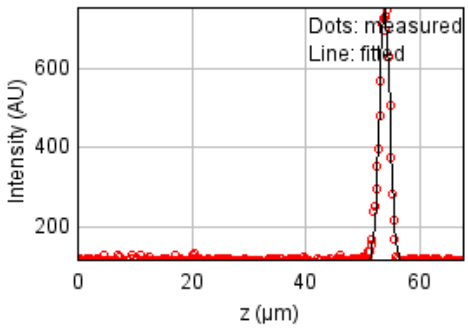




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.954

Parameters:
A = 644.048 (brightness)
B = 125.998 (background)
a = 0.792 px
b = 0.033 px
c = 0.429 px
xc = 7.402 px
yc = 6.887 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 42882.0160
Standard deviation: 11.81866
R^2: 0.98511
Parameters:
a = 113.46827
b = 757.51855
c = 53.87501
d = 0.89011

## Bead 2814 (Rejected)

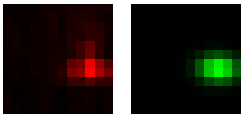
Date : Mon Oct 17 13:53:46 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

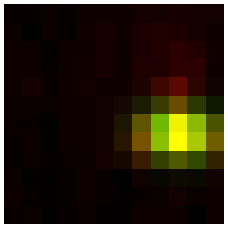
Coordinates : 108 um (x), -39.4 um (y), 50.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 492 nm | 513 nm | 270 nm |
| **max** | 710 nm | 740 nm | 270 nm |
| **z** | 1.96 um | 1.97 um | 1.3 um |
| **Asymmetry** | 0.693 | | |
| **Theta** | -2.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

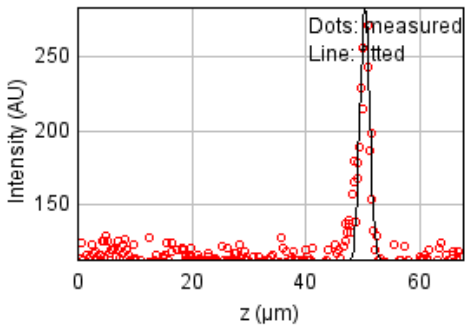




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.882

Parameters:
A = 417.144 (brightness)
B = 121.956 (background)
a = 0.267 px
b = -0.015 px
c = 0.553 px
xc = 9.030 px
yc = 6.549 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27776.5283
Standard deviation: 9.51196
R^2: 0.86967
Parameters:
a = 112.93789
b = 283.02526
c = 50.41624
d = 0.83136

## Bead 2815

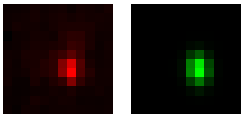
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

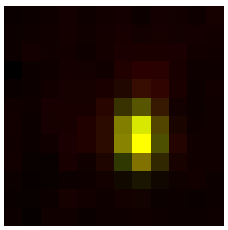
Coordinates : 82.7 um (x), -48.2 um (y), 53.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 384 nm | 400 nm | 270 nm |
| **max** | 545 nm | 568 nm | 270 nm |
| **z** | 2.08 um | 2.08 um | 1.3 um |
| **Asymmetry** | 0.704 | | |
| **Theta** | -86.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

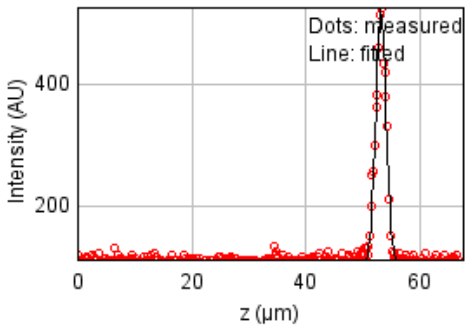




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.943

Parameters:
A = 471.934 (brightness)
B = 122.317 (background)
a = 0.910 px
b = -0.028 px
c = 0.453 px
xc = 6.853 px
yc = 6.597 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 28151.0437
Standard deviation: 9.57587
R^2: 0.97614
Parameters:
a = 112.47167
b = 524.73236
c = 53.21730
d = 0.88174

## Bead 2816

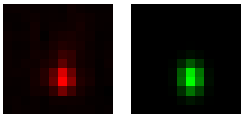
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

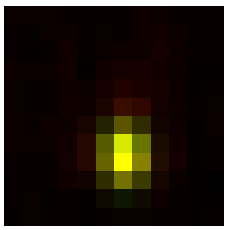
Coordinates : 106 um (x), -50.6 um (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 406 nm | 423 nm | 270 nm |
| **max** | 546 nm | 568 nm | 270 nm |
| **z** | 1.98 um | 1.99 um | 1.3 um |
| **Asymmetry** | 0.745 | | |
| **Theta** | -89.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

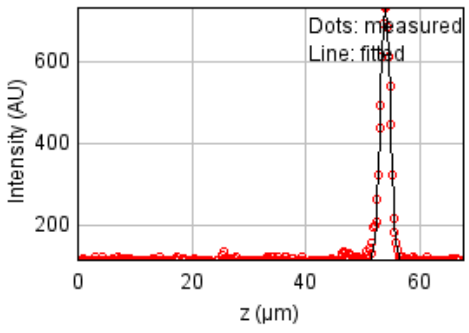




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.955

Parameters:
A = 744.277 (brightness)
B = 125.757 (background)
a = 0.812 px
b = -0.005 px
c = 0.451 px
xc = 6.078 px
yc = 7.609 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 23897.1288
Standard deviation: 8.82274
R^2: 0.99068
Parameters:
a = 113.88878
b = 739.78640
c = 54.00557
d = 0.84223

## Bead 2817

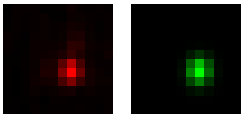
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

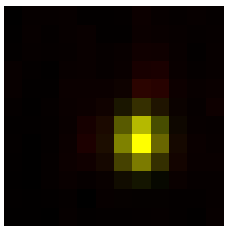
Coordinates : 74.3 um (x), -92.9 um (y), 53.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 409 nm | 426 nm | 270 nm |
| **max** | 506 nm | 527 nm | 270 nm |
| **z** | 2.04 um | 2.05 um | 1.3 um |
| **Asymmetry** | 0.81 | | |
| **Theta** | 85.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

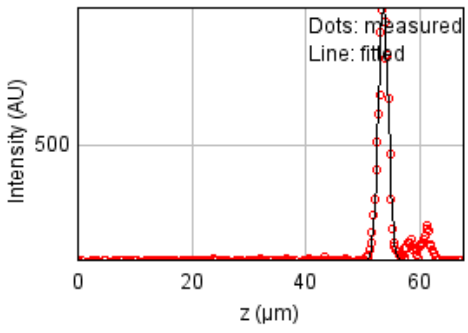




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.964

Parameters:
A = 864.238 (brightness)
B = 127.198 (background)
a = 0.799 px
b = 0.021 px
c = 0.527 px
xc = 6.929 px
yc = 6.810 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 150425.672
Standard deviation: 22.13563
R^2: 0.96928
Parameters:
a = 118.67469
b = 961.69523
c = 53.65406
d = 0.86830

## Bead 2818

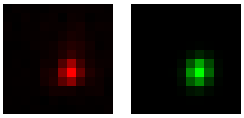
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

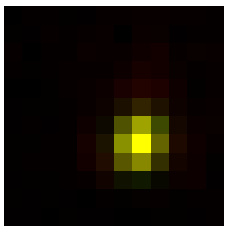
Coordinates : -36.3 um (x), -93.4 um (y), 53.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 418 nm | 435 nm | 270 nm |
| **max** | 504 nm | 525 nm | 270 nm |
| **z** | 2.05 um | 2.06 um | 1.3 um |
| **Asymmetry** | 0.828 | | |
| **Theta** | 75.7° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

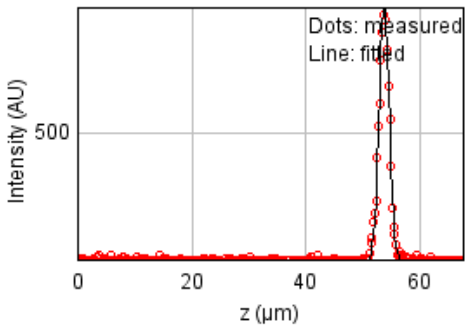




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.966

Parameters:
A = 784.247 (brightness)
B = 128.042 (background)
a = 0.754 px
b = 0.058 px
c = 0.542 px
xc = 6.884 px
yc = 6.927 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 23999.3833
Standard deviation: 8.84160
R^2: 0.99406
Parameters:
a = 112.59263
b = 886.33621
c = 53.80001
d = 0.87235

## Bead 2819 (Rejected)

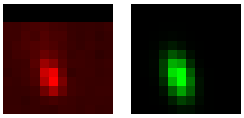
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

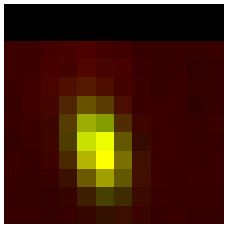
Coordinates : 121 um (x), 96.0 um (y), 49.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 465 nm | 485 nm | 270 nm |
| **max** | 812 nm | 846 nm | 270 nm |
| **z** | 3.64 um | 3.65 um | 1.3 um |
| **Asymmetry** | 0.573 | | |
| **Theta** | -73.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

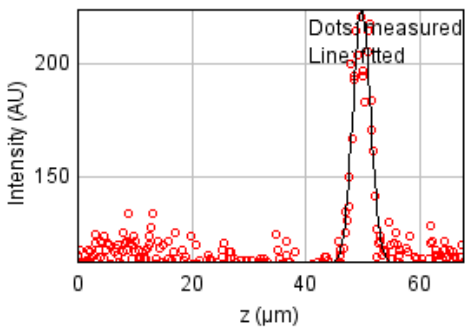




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.704

Parameters:
A = 439.111 (brightness)
B = 97.307 (background)
a = 0.586 px
b = -0.113 px
c = 0.237 px
xc = 4.674 px
yc = 7.363 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19572.8554
Standard deviation: 7.98469
R^2: 0.87967
Parameters:
a = 112.16523
b = 223.97169
c = 49.84844
d = 1.54574

## Bead 2820

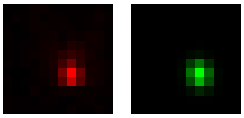
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

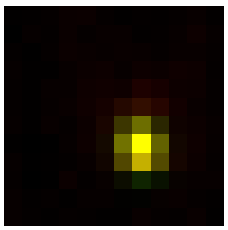
Coordinates : 23.1 um (x), 75.5 um (y), 54.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 387 nm | 403 nm | 270 nm |
| **max** | 473 nm | 493 nm | 270 nm |
| **z** | 1.89 um | 1.9 um | 1.3 um |
| **Asymmetry** | 0.818 | | |
| **Theta** | -80.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

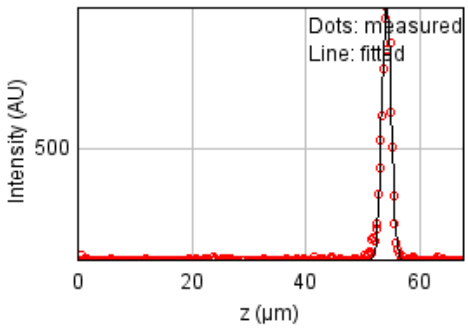




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.953

Parameters:
A = 850.358 (brightness)
B = 131.389 (background)
a = 0.889 px
b = -0.049 px
c = 0.608 px
xc = 6.968 px
yc = 7.191 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 100329.782
Standard deviation: 18.07781
R^2: 0.97939
Parameters:
a = 114.64983
b = 991.15672
c = 54.21421
d = 0.80395

## Bead 2821

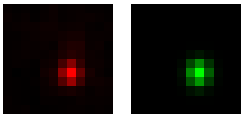
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

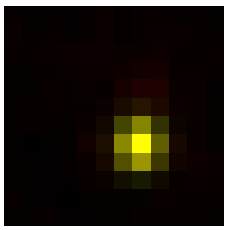
Coordinates : -75.3 um (x), 66.1 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 404 nm | 421 nm | 270 nm |
| **max** | 474 nm | 494 nm | 270 nm |
| **z** | 1.81 um | 1.82 um | 1.3 um |
| **Asymmetry** | 0.852 | | |
| **Theta** | 87.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

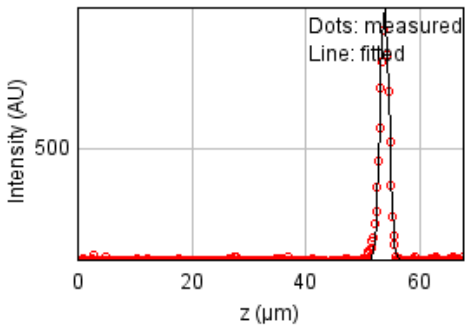




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

Parameters:
A = 923.907 (brightness)
B = 126.483 (background)
a = 0.821 px
b = 0.010 px
c = 0.597 px
xc = 6.889 px
yc = 7.046 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 52587.1616
Standard deviation: 13.08792
R^2: 0.98843
Parameters:
a = 115.09409
b = 983.78662
c = 53.86624
d = 0.77018

## Bead 2822 (Rejected)

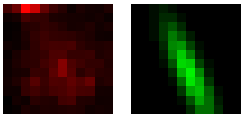
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

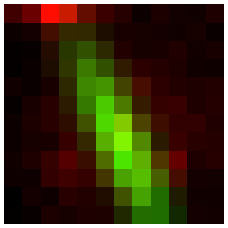
Coordinates : -59.4 um (x), 63.5 um (y), 56.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 487 nm | 508 nm | 270 nm |
| **max** | 1.92 um | 2.0 um | 270 nm |
| **z** | 6.88 um | 6.91 um | 1.3 um |
| **Asymmetry** | 0.254 | | |
| **Theta** | -65.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

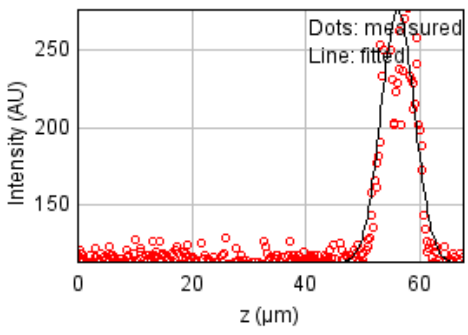




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.479

Parameters:
A = 18.271 (brightness)
B = 139.716 (background)
a = 0.461 px
b = -0.228 px
c = 0.068 px
xc = 5.868 px
yc = 7.006 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 86880.9188
Standard deviation: 16.82260
R^2: 0.86095
Parameters:
a = 112.34106
b = 276.57412
c = 56.17748
d = 2.92224

## Bead 2823 (Rejected)

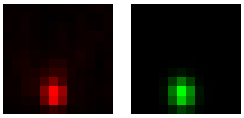
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

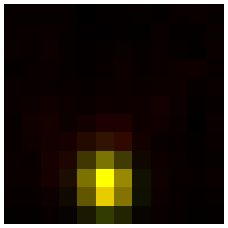
Coordinates : 19.6 um (x), 58.3 um (y), 53.3 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 433 nm | 451 nm | 270 nm |
| **max** | 517 nm | 538 nm | 270 nm |
| **z** | 4.11 um | 4.12 um | 1.3 um |
| **Asymmetry** | 0.837 | | |
| **Theta** | -82.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

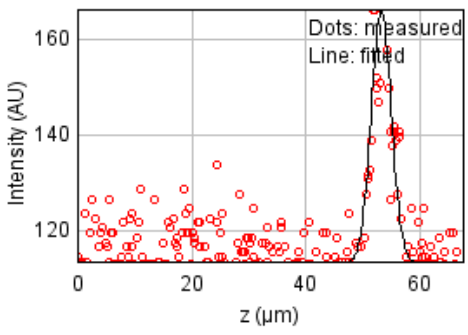




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.967

Parameters:
A = 734.520 (brightness)
B = 126.382 (background)
a = 0.714 px
b = -0.026 px
c = 0.505 px
xc = 5.074 px
yc = 9.282 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 16162.6958
Standard deviation: 7.25584
R^2: 0.68379
Parameters:
a = 113.67280
b = 165.98505
c = 53.28500
d = 1.74450

## Bead 2824 (Rejected)

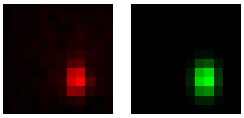
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

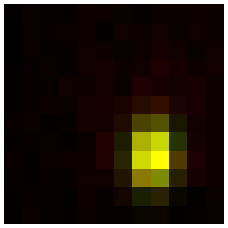
Coordinates : 9.81 um (x), 34.3 um (y), 23.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 404 nm | 421 nm | 270 nm |
| **max** | 585 nm | 609 nm | 270 nm |
| **z** | 1.93 um | 1.94 um | 1.3 um |
| **Asymmetry** | 0.691 | | |
| **Theta** | 88.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

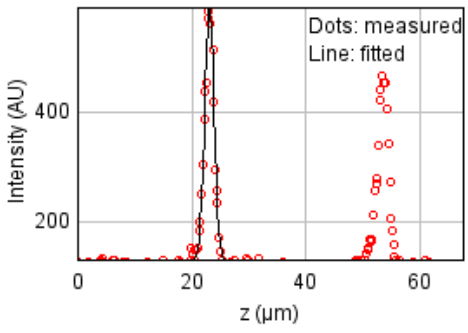




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.960

Parameters:
A = 505.042 (brightness)
B = 122.827 (background)
a = 0.821 px
b = 0.013 px
c = 0.393 px
xc = 7.603 px
yc = 7.739 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 971265.196
Standard deviation: 56.24705
R^2: 0.58488
Parameters:
a = 128.77824
b = 593.80315
c = 23.16807
d = 0.82068

## Bead 2825 (Rejected)

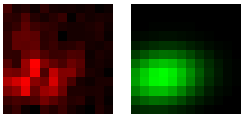
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

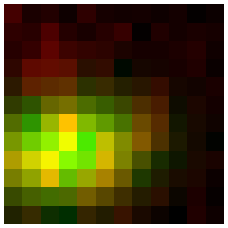
Coordinates : -63.6 um (x), 31.0 um (y), 51.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 981 nm | 1.02 um | 270 nm |
| **max** | 1.49 um | 1.55 um | 270 nm |
| **z** | 1.06 um | 1.06 um | 1.3 um |
| **Asymmetry** | 0.659 | | |
| **Theta** | 7.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

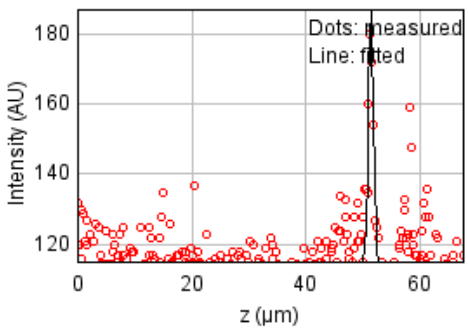




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.701

Parameters:
A = 85.092 (brightness)
B = 120.504 (background)
a = 0.062 px
b = 0.010 px
c = 0.138 px
xc = 2.819 px
yc = 7.469 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 19355.8044
Standard deviation: 7.94029
R^2: 0.48486
Parameters:
a = 114.86990
b = 186.74381
c = 51.46219
d = 0.44824

## Bead 2826

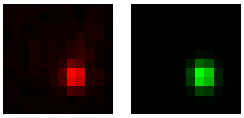
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

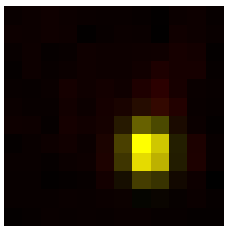
Coordinates : 67.6 um (x), 24.7 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 404 nm | 421 nm | 270 nm |
| **max** | 489 nm | 510 nm | 270 nm |
| **z** | 1.97 um | 1.98 um | 1.3 um |
| **Asymmetry** | 0.826 | | |
| **Theta** | -86.0° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

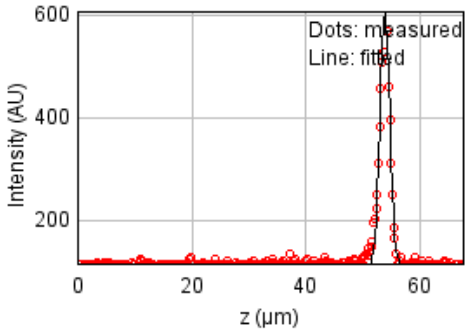




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.963

Parameters:
A = 615.063 (brightness)
B = 127.900 (background)
a = 0.819 px
b = -0.018 px
c = 0.561 px
xc = 7.357 px
yc = 7.375 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 30514.9060
Standard deviation: 9.96981
R^2: 0.98089
Parameters:
a = 113.39080
b = 606.27327
c = 53.91683
d = 0.83686

## Bead 2827 (Rejected)

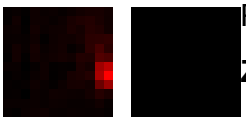
Date : Mon Oct 17 13:53:47 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

Coordinates : 133 um (x), -7.7 um (y), 31.4 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 0 | 0 | 270 nm |
| **max** | 0 | 0 | 270 nm |
| **z** | 2.69 um | 2.7 um | 1.3 um |
| **Asymmetry** | 0.0 | | |
| **Theta** | 0.0° | | |

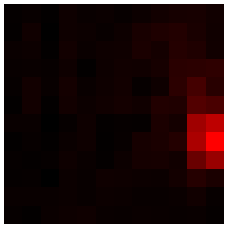
**XY profile & fitting parameters :**

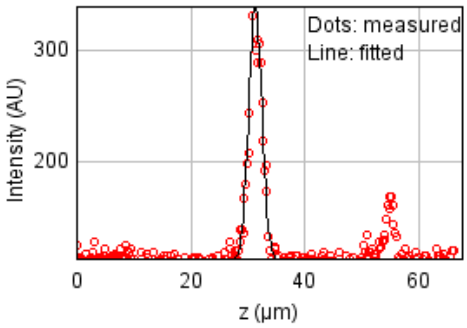
(red : the orignal data, green : the fit, yellow : the two merged)



Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)

**Z profile & fitting parameters:**






Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 44398.4837
Standard deviation: 12.02583
R^2: 0.90917
Parameters:
a = 113.37898
b = 340.09522
c = 31.38070
d = 1.14135

## Bead 2828

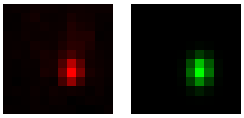
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

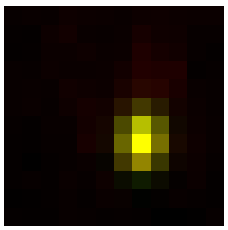
Coordinates : 81.8 um (x), -19.4 um (y), 53.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 391 nm | 407 nm | 270 nm |
| **max** | 535 nm | 558 nm | 270 nm |
| **z** | 1.94 um | 1.94 um | 1.3 um |
| **Asymmetry** | 0.73 | | |
| **Theta** | 86.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

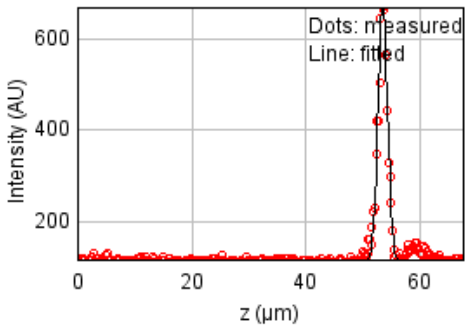




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.951

Parameters:
A = 562.023 (brightness)
B = 126.996 (background)
a = 0.878 px
b = 0.026 px
c = 0.470 px
xc = 7.028 px
yc = 6.807 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 49383.3594
Standard deviation: 12.68297
R^2: 0.97543
Parameters:
a = 115.94901
b = 671.97142
c = 53.54990
d = 0.82250

## Bead 2829

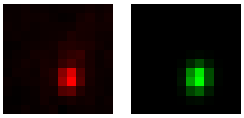
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

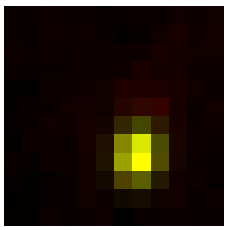
Coordinates : 46.4 um (x), -24.0 um (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 399 nm | 415 nm | 270 nm |
| **max** | 497 nm | 518 nm | 270 nm |
| **z** | 1.96 um | 1.97 um | 1.3 um |
| **Asymmetry** | 0.802 | | |
| **Theta** | 81.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

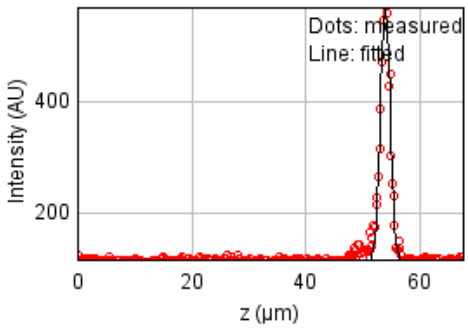




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.953

Parameters:
A = 604.109 (brightness)
B = 129.371 (background)
a = 0.838 px
b = 0.042 px
c = 0.548 px
xc = 6.795 px
yc = 7.608 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34220.9605
Standard deviation: 10.55788
R^2: 0.97558
Parameters:
a = 114.10226
b = 575.41888
c = 53.99964
d = 0.83360

## Bead 2830

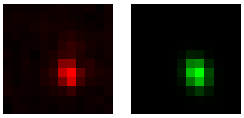
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

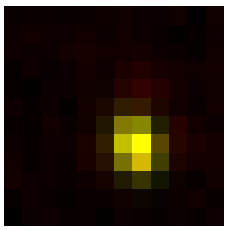
Coordinates : -115 um (x), -38.2 um (y), 53.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 405 nm | 422 nm | 270 nm |
| **max** | 543 nm | 565 nm | 270 nm |
| **z** | 2.15 um | 2.15 um | 1.3 um |
| **Asymmetry** | 0.746 | | |
| **Theta** | -74.0° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

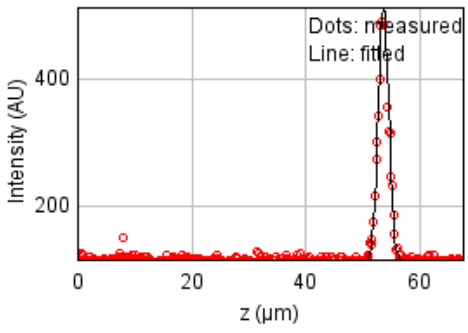




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.954

Parameters:
A = 408.553 (brightness)
B = 118.113 (background)
a = 0.789 px
b = -0.096 px
c = 0.483 px
xc = 6.699 px
yc = 7.110 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29747.9362
Standard deviation: 9.84372
R^2: 0.97437
Parameters:
a = 112.81818
b = 515.03224
c = 53.68448
d = 0.91103

## Bead 2831

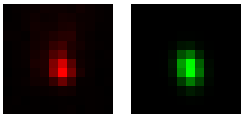
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

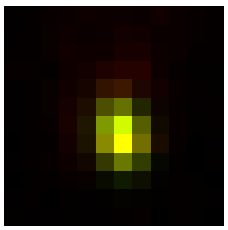
Coordinates : 106 um (x), 79.4 um (y), 54.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 427 nm | 445 nm | 270 nm |
| **max** | 599 nm | 624 nm | 270 nm |
| **z** | 2.02 um | 2.03 um | 1.3 um |
| **Asymmetry** | 0.713 | | |
| **Theta** | -79.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

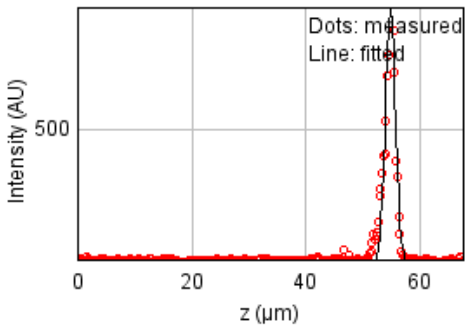




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.944

Parameters:
A = 939.069 (brightness)
B = 133.985 (background)
a = 0.723 px
b = -0.067 px
c = 0.386 px
xc = 5.881 px
yc = 6.511 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 127738.037
Standard deviation: 20.39816
R^2: 0.96661
Parameters:
a = 113.85902
b = 862.49934
c = 54.89863
d = 0.85728

## Bead 2832 (Rejected)

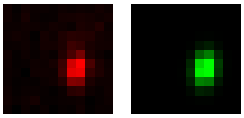
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

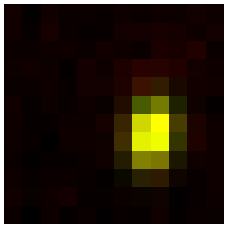
Coordinates : -146 um (x), 76.8 um (y), 53.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 407 nm | 424 nm | 270 nm |
| **max** | 608 nm | 633 nm | 270 nm |
| **z** | 2.08 um | 2.09 um | 1.3 um |
| **Asymmetry** | 0.67 | | |
| **Theta** | 81.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

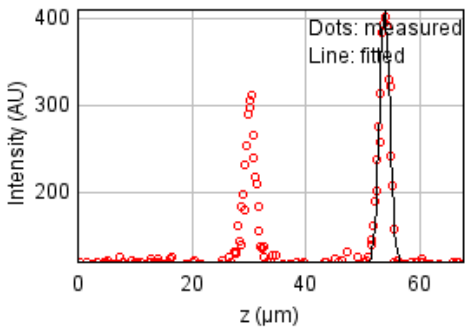




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.966

Parameters:
A = 387.014 (brightness)
B = 116.522 (background)
a = 0.802 px
b = 0.062 px
c = 0.372 px
xc = 7.564 px
yc = 6.558 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 279828.492
Standard deviation: 30.19095
R^2: 0.67274
Parameters:
a = 118.88876
b = 410.04991
c = 53.87480
d = 0.88299

## Bead 2833

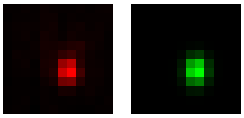
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

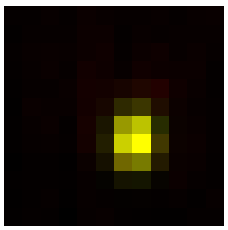
Coordinates : 23.0 um (x), 72.8 um (y), 54.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 395 nm | 411 nm | 270 nm |
| **max** | 517 nm | 538 nm | 270 nm |
| **z** | 2.0 um | 2.0 um | 1.3 um |
| **Asymmetry** | 0.764 | | |
| **Theta** | 87.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

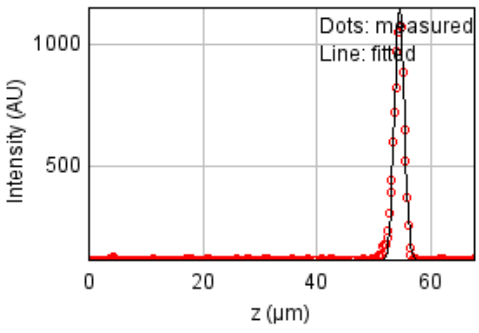




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.979

Parameters:
A = 1176.385 (brightness)
B = 128.840 (background)
a = 0.860 px
b = 0.017 px
c = 0.503 px
xc = 6.625 px
yc = 6.785 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 79148.0212
Standard deviation: 16.05650
R^2: 0.98875
Parameters:
a = 114.52434
b = 1147.00307
c = 54.53365
d = 0.84756

## Bead 2834

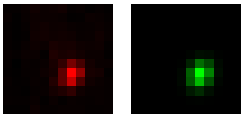
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

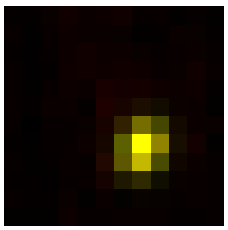
Coordinates : -35.2 um (x), 70.0 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 394 nm | 410 nm | 270 nm |
| **max** | 497 nm | 518 nm | 270 nm |
| **z** | 1.68 um | 1.68 um | 1.3 um |
| **Asymmetry** | 0.792 | | |
| **Theta** | 68.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

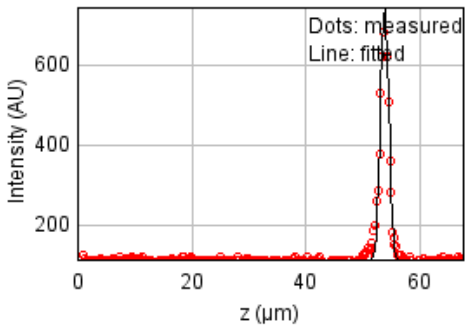




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.972

Parameters:
A = 678.593 (brightness)
B = 123.819 (background)
a = 0.823 px
b = 0.110 px
c = 0.586 px
xc = 7.064 px
yc = 7.212 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 41165.3655
Standard deviation: 11.57969
R^2: 0.98142
Parameters:
a = 113.68407
b = 741.10553
c = 53.87837
d = 0.71206

## Bead 2835 (Rejected)

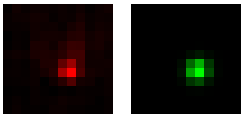
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

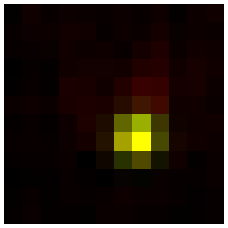
Coordinates : 15.4 um (x), 62.4 um (y), 53.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 405 nm | 270 nm |
| **max** | 413 nm | 431 nm | 270 nm |
| **z** | 1.95 um | 1.96 um | 1.3 um |
| **Asymmetry** | 0.941 | | |
| **Theta** | 57.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

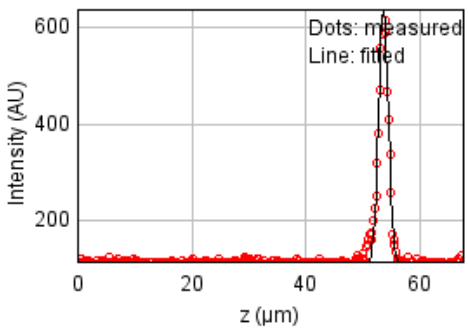




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.889

Parameters:
A = 483.299 (brightness)
B = 126.688 (background)
a = 0.858 px
b = 0.046 px
c = 0.814 px
xc = 6.779 px
yc = 6.741 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34783.9714
Standard deviation: 10.64438
R^2: 0.98045
Parameters:
a = 113.63403
b = 636.45085
c = 53.67209
d = 0.82807

## Bead 2836

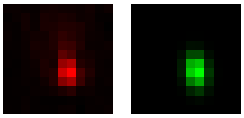
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

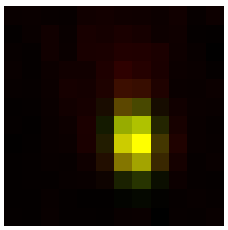
Coordinates : 137 um (x), 31.2 um (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 406 nm | 270 nm |
| **max** | 617 nm | 643 nm | 270 nm |
| **z** | 2.18 um | 2.19 um | 1.3 um |
| **Asymmetry** | 0.631 | | |
| **Theta** | -84.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

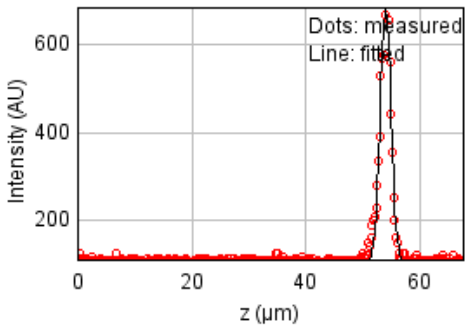




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.930

Parameters:
A = 591.773 (brightness)
B = 124.521 (background)
a = 0.879 px
b = -0.054 px
c = 0.358 px
xc = 6.618 px
yc = 6.827 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 37981.8322
Standard deviation: 11.12292
R^2: 0.98409
Parameters:
a = 110.51560
b = 685.58591
c = 54.04649
d = 0.92659

## Bead 2837

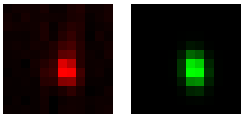
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

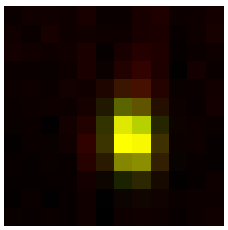
Coordinates : 90.3 um (x), 8.76 um (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 406 nm | 423 nm | 270 nm |
| **max** | 606 nm | 631 nm | 270 nm |
| **z** | 2.22 um | 2.22 um | 1.3 um |
| **Asymmetry** | 0.669 | | |
| **Theta** | -84.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

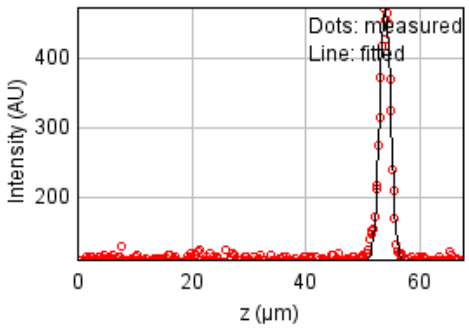




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.943

Parameters:
A = 410.325 (brightness)
B = 121.995 (background)
a = 0.812 px
b = -0.039 px
c = 0.369 px
xc = 6.469 px
yc = 6.681 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 18904.8771
Standard deviation: 7.84725
R^2: 0.98023
Parameters:
a = 111.76763
b = 472.42238
c = 53.97625
d = 0.94095

## Bead 2838

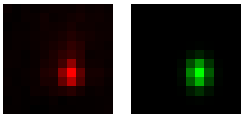
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

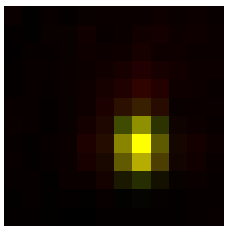
Coordinates : 89.1 um (x), -132 nm (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 398 nm | 414 nm | 270 nm |
| **max** | 528 nm | 550 nm | 270 nm |
| **z** | 2.02 um | 2.03 um | 1.3 um |
| **Asymmetry** | 0.753 | | |
| **Theta** | 89.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

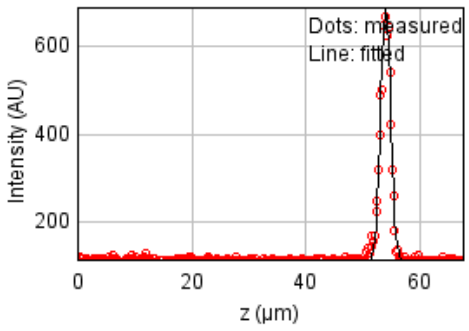




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.942

Parameters:
A = 583.383 (brightness)
B = 126.861 (background)
a = 0.849 px
b = 0.000 px
c = 0.481 px
xc = 6.886 px
yc = 7.098 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27375.9458
Standard deviation: 9.44312
R^2: 0.98778
Parameters:
a = 112.55855
b = 690.96958
c = 54.04966
d = 0.85975

## Bead 2839

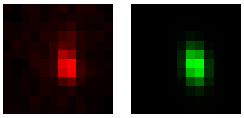
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

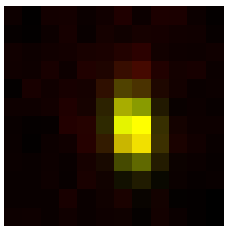
Coordinates : 131 um (x), -2.35 um (y), 53.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 390 nm | 406 nm | 270 nm |
| **max** | 665 nm | 692 nm | 270 nm |
| **z** | 2.14 um | 2.15 um | 1.3 um |
| **Asymmetry** | 0.587 | | |
| **Theta** | -82.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

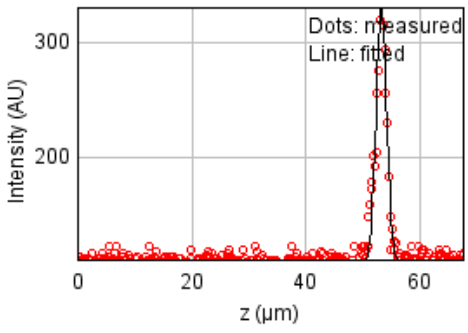




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.946

Parameters:
A = 305.160 (brightness)
B = 120.482 (background)
a = 0.871 px
b = -0.079 px
c = 0.315 px
xc = 6.544 px
yc = 6.181 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 17845.1347
Standard deviation: 7.62414
R^2: 0.95035
Parameters:
a = 110.46348
b = 331.65309
c = 53.29941
d = 0.90995

## Bead 2840

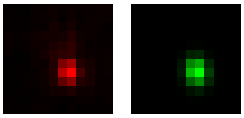
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

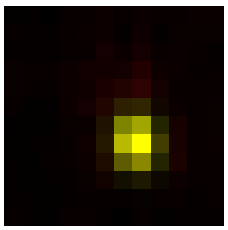
Coordinates : -40.8 um (x), -16.4 um (y), 54.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 391 nm | 407 nm | 270 nm |
| **max** | 507 nm | 528 nm | 270 nm |
| **z** | 2.09 um | 2.1 um | 1.3 um |
| **Asymmetry** | 0.772 | | |
| **Theta** | -83.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

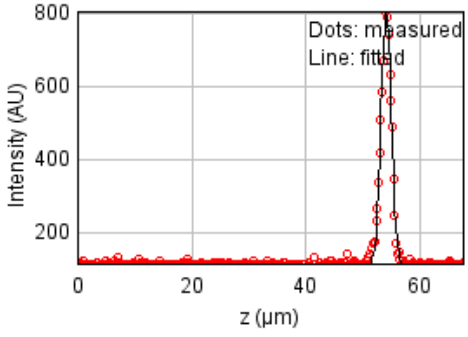




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.962

Parameters:
A = 729.213 (brightness)
B = 125.638 (background)
a = 0.872 px
b = -0.042 px
c = 0.528 px
xc = 6.674 px
yc = 6.881 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29066.9589
Standard deviation: 9.73040
R^2: 0.99114
Parameters:
a = 114.11743
b = 805.23799
c = 54.15404
d = 0.88613

## Bead 2841

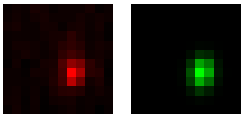
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

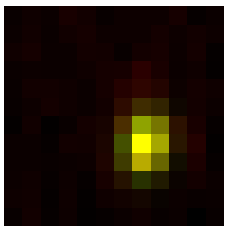
Coordinates : -146 um (x), -17.7 um (y), 53.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 410 nm | 427 nm | 270 nm |
| **max** | 566 nm | 590 nm | 270 nm |
| **z** | 2.27 um | 2.28 um | 1.3 um |
| **Asymmetry** | 0.724 | | |
| **Theta** | 82.7° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

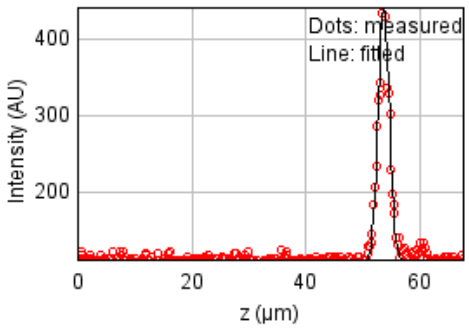




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.941

Parameters:
A = 382.971 (brightness)
B = 119.611 (background)
a = 0.791 px
b = 0.048 px
c = 0.424 px
xc = 7.232 px
yc = 7.004 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27538.6629
Standard deviation: 9.47114
R^2: 0.96699
Parameters:
a = 111.56879
b = 442.01197
c = 53.72734
d = 0.96569

## Bead 2842 (Rejected)

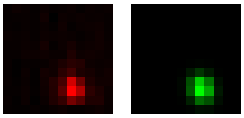
Date : Mon Oct 17 13:53:48 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

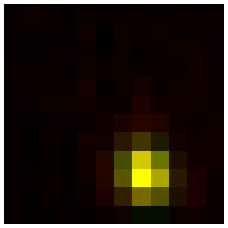
Coordinates : 21.4 um (x), -30.2 um (y), 50.3 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 415 nm | 433 nm | 270 nm |
| **max** | 500 nm | 521 nm | 270 nm |
| **z** | 3.18 um | 3.19 um | 1.3 um |
| **Asymmetry** | 0.83 | | |
| **Theta** | -72.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

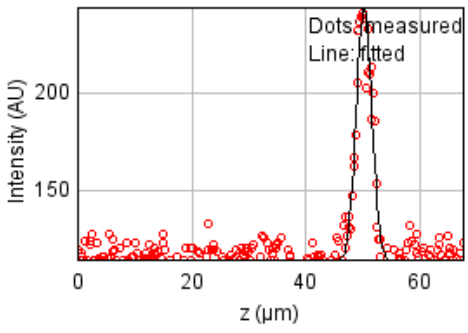




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.961

Parameters:
A = 575.960 (brightness)
B = 122.587 (background)
a = 0.755 px
b = -0.070 px
c = 0.558 px
xc = 7.192 px
yc = 8.737 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 16413.8543
Standard deviation: 7.31200
R^2: 0.91245
Parameters:
a = 113.86347
b = 244.00078
c = 50.26687
d = 1.34888

## Bead 2843

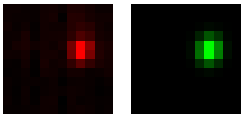
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

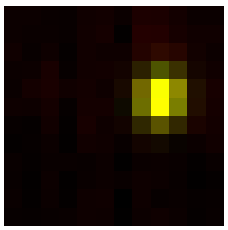
Coordinates : -103 um (x), -40.0 um (y), 23.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 417 nm | 434 nm | 270 nm |
| **max** | 494 nm | 515 nm | 270 nm |
| **z** | 2.28 um | 2.29 um | 1.3 um |
| **Asymmetry** | 0.843 | | |
| **Theta** | 81.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

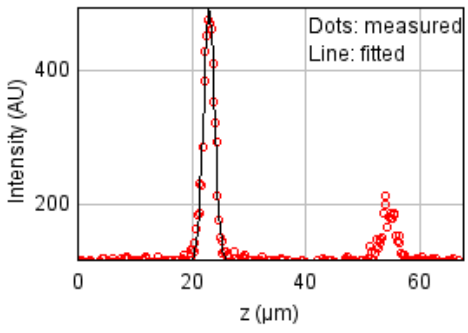




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.960

Parameters:
A = 442.159 (brightness)
B = 116.557 (background)
a = 0.767 px
b = 0.033 px
c = 0.554 px
xc = 8.067 px
yc = 4.491 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 82447.9051
Standard deviation: 16.38780
R^2: 0.92706
Parameters:
a = 116.85039
b = 492.77628
c = 23.10349
d = 0.96962

## Bead 2844

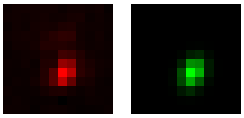
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

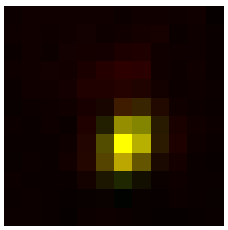
Coordinates : -34.0 um (x), -41.5 um (y), 54.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 397 nm | 414 nm | 270 nm |
| **max** | 552 nm | 575 nm | 270 nm |
| **z** | 2.33 um | 2.34 um | 1.3 um |
| **Asymmetry** | 0.72 | | |
| **Theta** | 66.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

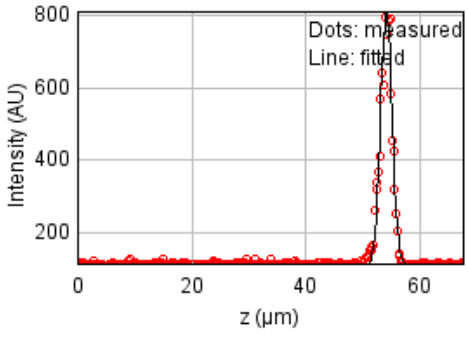




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 805.574 (brightness)
B = 131.650 (background)
a = 0.783 px
b = 0.152 px
c = 0.508 px
xc = 6.262 px
yc = 7.001 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 68963.1551
Standard deviation: 14.98785
R^2: 0.98156
Parameters:
a = 114.41393
b = 810.73196
c = 54.17164
d = 0.99090

## Bead 2845 (Rejected)

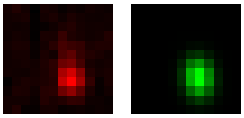
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

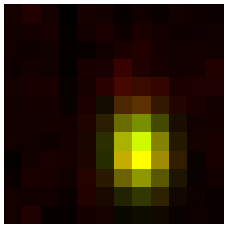
Coordinates : 30.6 um (x), -56.1 um (y), 52.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 518 nm | 540 nm | 270 nm |
| **max** | 714 nm | 744 nm | 270 nm |
| **z** | 2.14 um | 2.15 um | 1.3 um |
| **Asymmetry** | 0.725 | | |
| **Theta** | -84.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

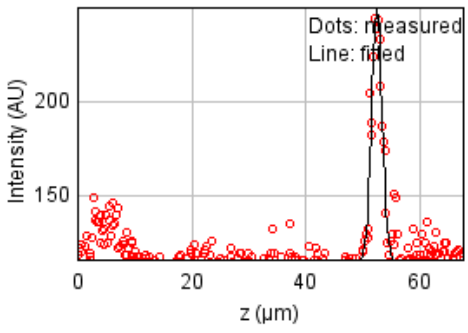




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.929

Parameters:
A = 223.998 (brightness)
B = 121.341 (background)
a = 0.497 px
b = -0.024 px
c = 0.265 px
xc = 6.866 px
yc = 7.528 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 30189.8964
Standard deviation: 9.91657
R^2: 0.80470
Parameters:
a = 116.03821
b = 249.56637
c = 52.51334
d = 0.90919

## Bead 2846

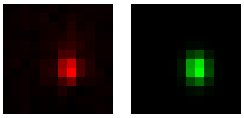
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

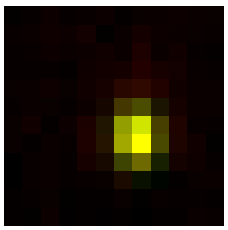
Coordinates : -52.0 um (x), -65.8 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 402 nm | 418 nm | 270 nm |
| **max** | 521 nm | 543 nm | 270 nm |
| **z** | 2.11 um | 2.12 um | 1.3 um |
| **Asymmetry** | 0.771 | | |
| **Theta** | -86.0° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

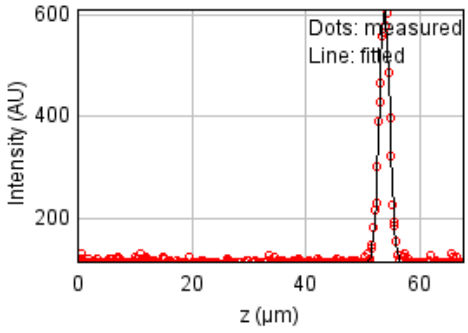




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.951

Parameters:
A = 489.552 (brightness)
B = 122.731 (background)
a = 0.830 px
b = -0.024 px
c = 0.496 px
xc = 6.739 px
yc = 6.600 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 25832.2405
Standard deviation: 9.17301
R^2: 0.98496
Parameters:
a = 113.68929
b = 609.09033
c = 53.85794
d = 0.89799

## Bead 2847

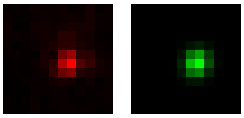
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

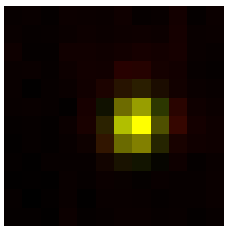
Coordinates : -89.4 um (x), -69.2 um (y), 54.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 425 nm | 443 nm | 270 nm |
| **max** | 486 nm | 506 nm | 270 nm |
| **z** | 1.99 um | 2.0 um | 1.3 um |
| **Asymmetry** | 0.875 | | |
| **Theta** | 72.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

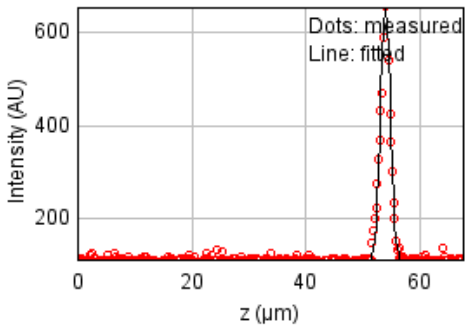




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.943

Parameters:
A = 610.706 (brightness)
B = 122.949 (background)
a = 0.726 px
b = 0.051 px
c = 0.584 px
xc = 6.704 px
yc = 5.935 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 40495.7341
Standard deviation: 11.48512
R^2: 0.97918
Parameters:
a = 112.73148
b = 654.05062
c = 54.02101
d = 0.84419

## Bead 2848

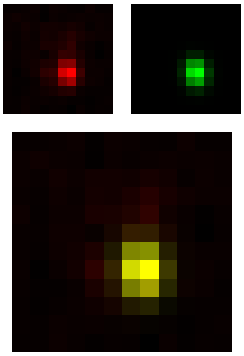
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

Coordinates : 78.7 um (x), 7.81 um (y), 54.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 402 nm | 418 nm | 270 nm |
| **max** | 509 nm | 530 nm | 270 nm |
| **z** | 2.08 um | 2.09 um | 1.3 um |
| **Asymmetry** | 0.789 | | |
| **Theta** | -82.8° | | |

### XY profile & fitting parameters :

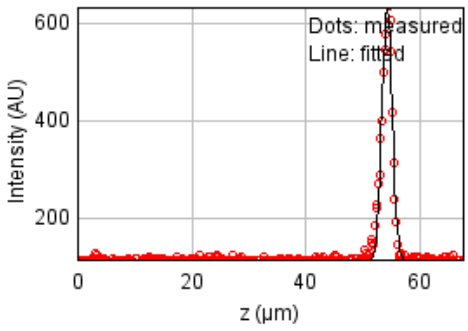
(red : the orignal data, green : the fit, yellow : the two merged)



Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.954

Parameters:
A = 581.126 (brightness)
B = 124.203 (background)
a = 0.826 px
b = -0.039 px
c = 0.523 px
xc = 6.597 px
yc = 7.010 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 38725.8994
Standard deviation: 11.23134
R^2: 0.97928
Parameters:
a = 113.15610
b = 632.09661
c = 54.30971
d = 0.88436

## Bead 2849 (Rejected)

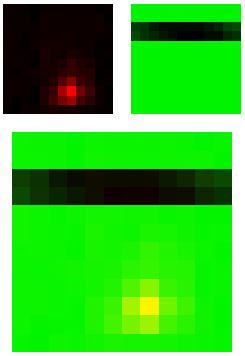
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

Coordinates : -40.8 um (x), 5.5 um (y), 50.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 147 nm | 153 nm | 270 nm |
| **max** | 3.7 um | 3.85 um | 270 nm |
| **z** | 3.52 um | 3.53 um | 1.3 um |
| **Asymmetry** | 0.04 | | |
| **Theta** | -0.1° | | |

### XY profile & fitting parameters :

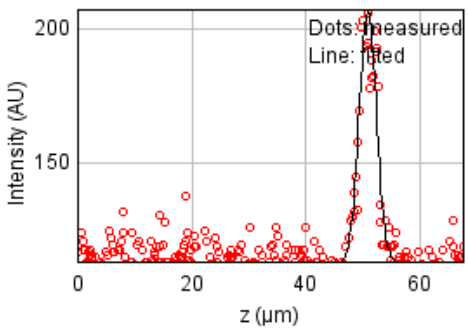
(red : the orignal data, green : the fit, yellow : the two merged)



Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.057

Parameters:
A = -90.480 (brightness)
B = 143.617 (background)
a = -0.010 px
b = -0.011 px
c = 6.187 px
xc = 5.621 px
yc = 2.503 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 17155.5173
Standard deviation: 7.47537
R^2: 0.85275
Parameters:
a = 112.86584
b = 207.50968
c = 50.93256
d = 1.49332

## Bead 2850

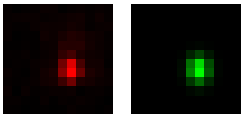
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

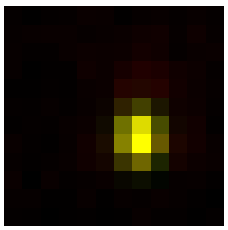
Coordinates : -90.4 um (x), -2.89 um (y), 53.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 394 nm | 411 nm | 270 nm |
| **max** | 501 nm | 522 nm | 270 nm |
| **z** | 2.03 um | 2.04 um | 1.3 um |
| **Asymmetry** | 0.787 | | |
| **Theta** | -89.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

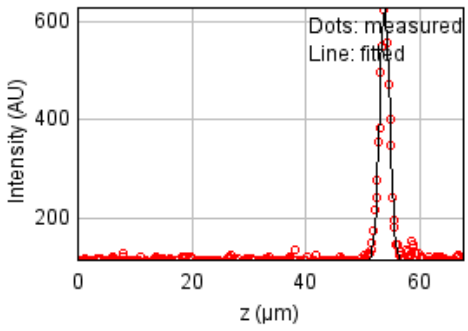




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.961

Parameters:
A = 561.137 (brightness)
B = 122.071 (background)
a = 0.864 px
b = -0.003 px
c = 0.535 px
xc = 6.887 px
yc = 6.643 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24252.2863
Standard deviation: 8.88806
R^2: 0.98640
Parameters:
a = 113.67290
b = 628.16080
c = 53.87515
d = 0.86417

## Bead 2851

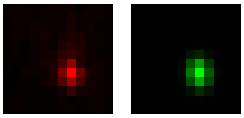
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

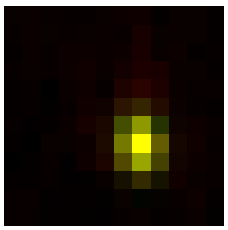
Coordinates : 130 um (x), -26.5 um (y), 54.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 405 nm | 270 nm |
| **max** | 535 nm | 557 nm | 270 nm |
| **z** | 1.92 um | 1.93 um | 1.3 um |
| **Asymmetry** | 0.727 | | |
| **Theta** | -84.7° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

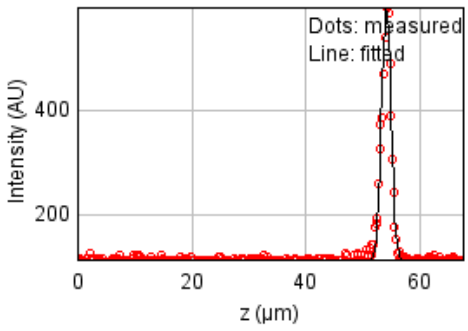




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.950

Parameters:
A = 498.397 (brightness)
B = 119.867 (background)
a = 0.882 px
b = -0.039 px
c = 0.472 px
xc = 6.926 px
yc = 7.036 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 28760.4770
Standard deviation: 9.67896
R^2: 0.98102
Parameters:
a = 111.78765
b = 597.79016
c = 54.17338
d = 0.81616

## Bead 2852

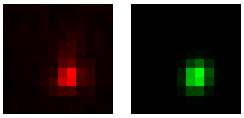
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

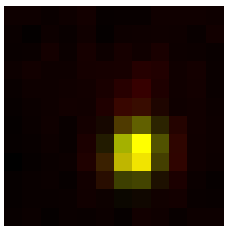
Coordinates : -87.4 um (x), -27.7 um (y), 54.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 416 nm | 433 nm | 270 nm |
| **max** | 506 nm | 527 nm | 270 nm |
| **z** | 1.92 um | 1.93 um | 1.3 um |
| **Asymmetry** | 0.822 | | |
| **Theta** | 72.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

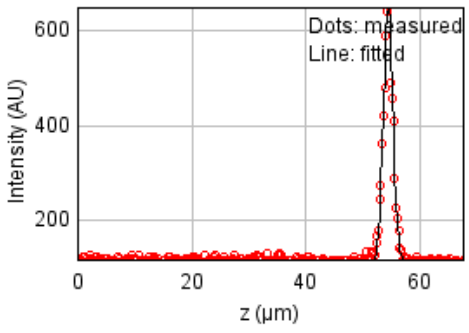




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.933

Parameters:
A = 607.411 (brightness)
B = 128.551 (background)
a = 0.753 px
b = 0.071 px
c = 0.545 px
xc = 6.704 px
yc = 7.434 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 31544.2298
Standard deviation: 10.13656
R^2: 0.98287
Parameters:
a = 114.70337
b = 651.09008
c = 54.50135
d = 0.81558

## Bead 2853

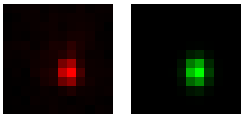
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

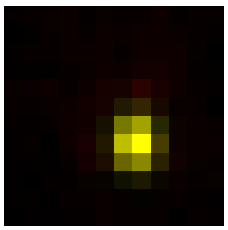
Coordinates : -9.31 um (x), -70.9 um (y), 54.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 396 nm | 412 nm | 270 nm |
| **max** | 498 nm | 519 nm | 270 nm |
| **z** | 1.94 um | 1.95 um | 1.3 um |
| **Asymmetry** | 0.794 | | |
| **Theta** | 89.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

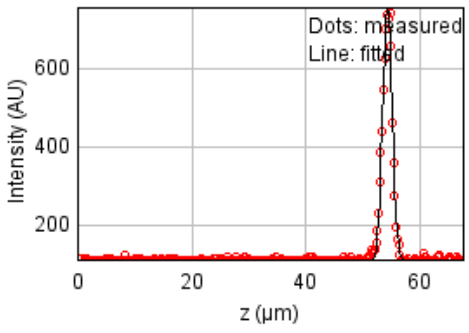




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.970

Parameters:
A = 669.081 (brightness)
B = 123.342 (background)
a = 0.858 px
b = 0.002 px
c = 0.540 px
xc = 6.677 px
yc = 6.918 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27941.4801
Standard deviation: 9.54016
R^2: 0.98946
Parameters:
a = 113.02553
b = 755.79750
c = 54.37483
d = 0.82311

## Bead 2854

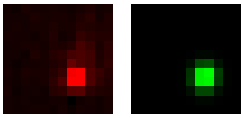
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

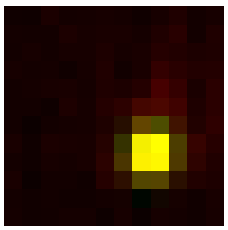
Coordinates : -43.9 um (x), -78.1 um (y), 54.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 423 nm | 441 nm | 270 nm |
| **max** | 467 nm | 486 nm | 270 nm |
| **z** | 2.32 um | 2.33 um | 1.3 um |
| **Asymmetry** | 0.906 | | |
| **Theta** | 82.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

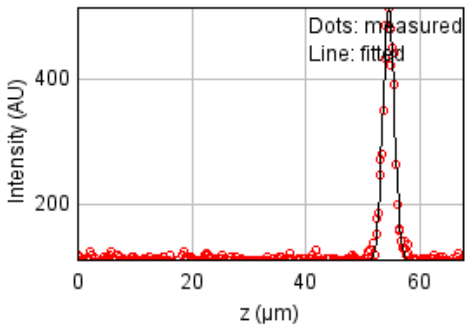




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.924

Parameters:
A = 558.773 (brightness)
B = 126.906 (background)
a = 0.748 px
b = 0.018 px
c = 0.618 px
xc = 7.531 px
yc = 7.487 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27812.8987
Standard deviation: 9.51818
R^2: 0.97735
Parameters:
a = 113.24587
b = 512.19265
c = 54.59325
d = 0.98697

## Bead 2855

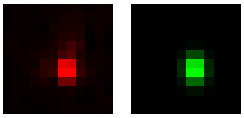
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

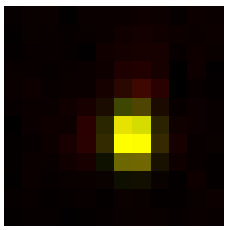
Coordinates : 107 um (x), -82.3 um (y), 54.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 385 nm | 401 nm | 270 nm |
| **max** | 509 nm | 530 nm | 270 nm |
| **z** | 2.31 um | 2.32 um | 1.3 um |
| **Asymmetry** | 0.757 | | |
| **Theta** | -88.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

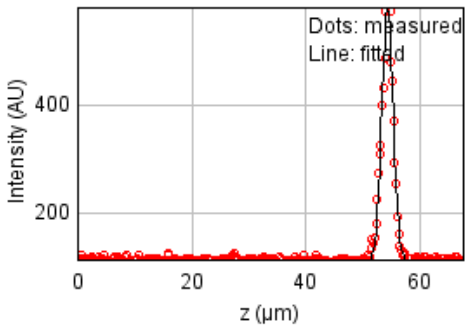




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.957

Parameters:
A = 631.525 (brightness)
B = 121.519 (background)
a = 0.903 px
b = -0.008 px
c = 0.517 px
xc = 6.492 px
yc = 6.627 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20675.7896
Standard deviation: 8.20657
R^2: 0.98760
Parameters:
a = 111.71562
b = 580.60988
c = 54.38083
d = 0.97981

## Bead 2856 (Rejected)

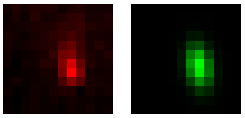
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

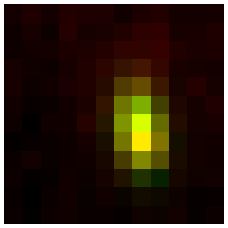
Coordinates : 120 um (x), 70.9 um (y), 54.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 434 nm | 452 nm | 270 nm |
| **max** | 782 nm | 814 nm | 270 nm |
| **z** | 1.92 um | 1.92 um | 1.3 um |
| **Asymmetry** | 0.555 | | |
| **Theta** | -81.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

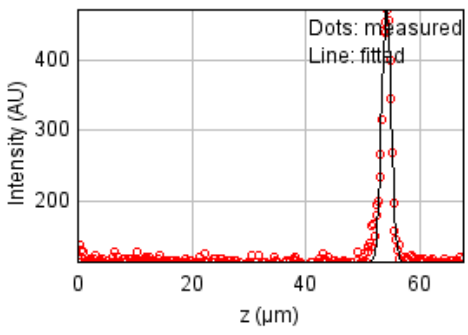




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.878

Parameters:
A = 302.123 (brightness)
B = 124.411 (background)
a = 0.703 px
b = -0.072 px
c = 0.230 px
xc = 6.917 px
yc = 6.288 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29322.9162
Standard deviation: 9.77315
R^2: 0.96573
Parameters:
a = 111.74406
b = 474.62320
c = 54.19177
d = 0.81359

## Bead 2857

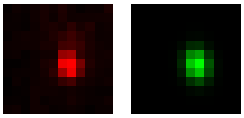
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

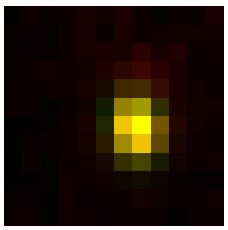
Coordinates : -117 um (x), 64.1 um (y), 54.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 441 nm | 459 nm | 270 nm |
| **max** | 594 nm | 618 nm | 270 nm |
| **z** | 1.94 um | 1.95 um | 1.3 um |
| **Asymmetry** | 0.743 | | |
| **Theta** | -82.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

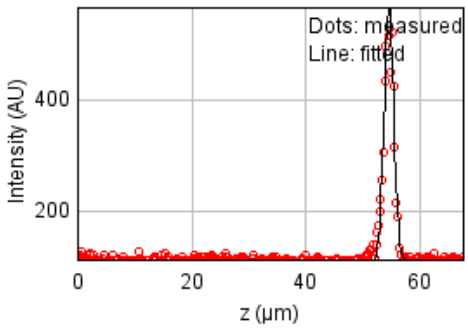




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.946

Parameters:
A = 466.443 (brightness)
B = 120.103 (background)
a = 0.684 px
b = -0.041 px
c = 0.386 px
xc = 6.693 px
yc = 6.118 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 47420.0176
Standard deviation: 12.42830
R^2: 0.96510
Parameters:
a = 113.04229
b = 567.30897
c = 54.63737
d = 0.82421

## Bead 2858

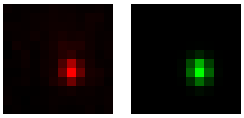
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

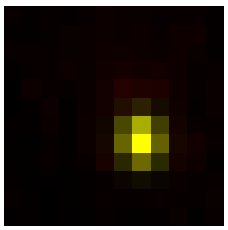
Coordinates : -55.0 um (x), 49.2 um (y), 54.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 375 nm | 391 nm | 270 nm |
| **max** | 458 nm | 477 nm | 270 nm |
| **z** | 1.85 um | 1.86 um | 1.3 um |
| **Asymmetry** | 0.818 | | |
| **Theta** | -84.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

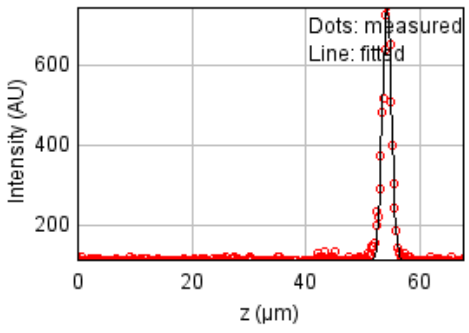




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.964

Parameters:
A = 632.238 (brightness)
B = 122.263 (background)
a = 0.951 px
b = -0.029 px
c = 0.642 px
xc = 6.983 px
yc = 6.804 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 35250.3265
Standard deviation: 10.71550
R^2: 0.98557
Parameters:
a = 114.09166
b = 743.84095
c = 54.28907
d = 0.78559

## Bead 2859

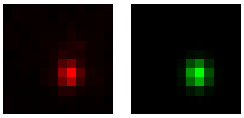
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

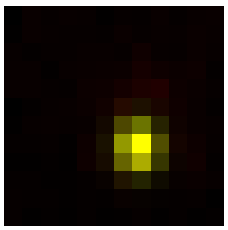
Coordinates : -15.4 um (x), 32.0 um (y), 54.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 397 nm | 413 nm | 270 nm |
| **max** | 475 nm | 495 nm | 270 nm |
| **z** | 1.74 um | 1.74 um | 1.3 um |
| **Asymmetry** | 0.835 | | |
| **Theta** | -86.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

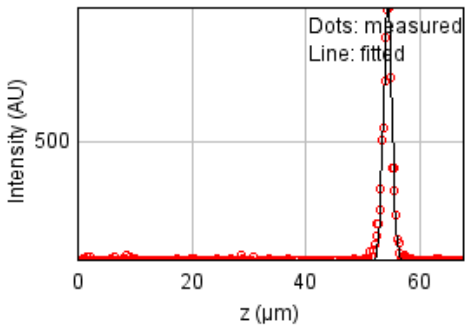




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.972

Parameters:
A = 827.388 (brightness)
B = 126.835 (background)
a = 0.851 px
b = -0.014 px
c = 0.595 px
xc = 6.804 px
yc = 7.162 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 85902.0945
Standard deviation: 16.72756
R^2: 0.97850
Parameters:
a = 114.40837
b = 941.86941
c = 54.41998
d = 0.73699

## Bead 2860

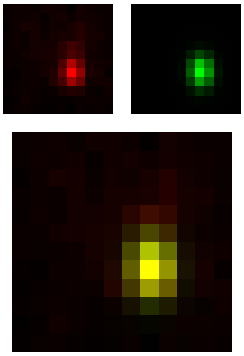
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

Coordinates : 118 um (x), 29.6 um (y), 54.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 416 nm | 433 nm | 270 nm |
| **max** | 592 nm | 617 nm | 270 nm |
| **z** | 2.02 um | 2.03 um | 1.3 um |
| **Asymmetry** | 0.702 | | |
| **Theta** | -88.8° | | |

### XY profile & fitting parameters :

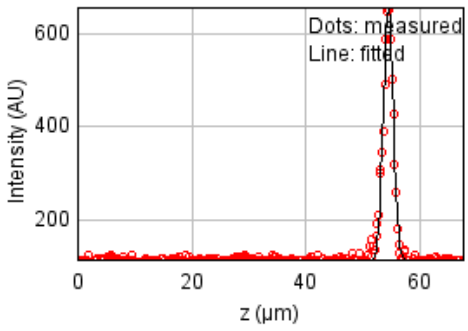
(red : the orignal data, green : the fit, yellow : the two merged)



Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.943

Parameters:
A = 518.381 (brightness)
B = 124.487 (background)
a = 0.777 px
b = -0.008 px
c = 0.383 px
xc = 7.141 px
yc = 6.856 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 35853.7270
Standard deviation: 10.80682
R^2: 0.98205
Parameters:
a = 111.97952
b = 656.99900
c = 54.52407
d = 0.85804

## Bead 2861 (Rejected)

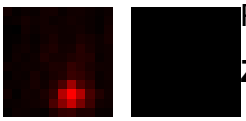
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

Coordinates : -77.2 um (x), 28.9 um (y), 51.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 0 | 0 | 270 nm |
| **max** | 0 | 0 | 270 nm |
| **z** | 2.94 um | 2.95 um | 1.3 um |
| **Asymmetry** | 0.0 | | |
| **Theta** | 0.0° | | |

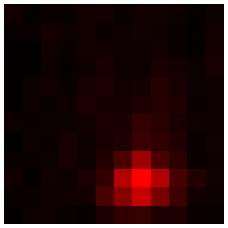
**XY profile & fitting parameters :**

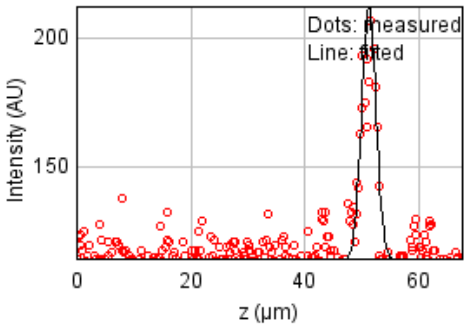
(red : the orignal data, green : the fit, yellow : the two merged)



Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)

**Z profile & fitting parameters:**






Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24168.0381
Standard deviation: 8.87261
R^2: 0.78765
Parameters:
a = 114.14576
b = 211.84919
c = 51.28882
d = 1.24694

## Bead 2862

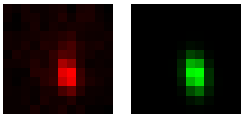
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

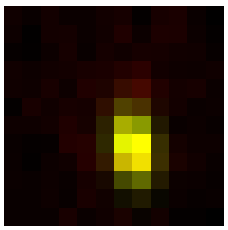
Coordinates : 131 um (x), -2.35 um (y), 53.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 405 nm | 270 nm |
| **max** | 663 nm | 691 nm | 270 nm |
| **z** | 2.14 um | 2.15 um | 1.3 um |
| **Asymmetry** | 0.586 | | |
| **Theta** | -82.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

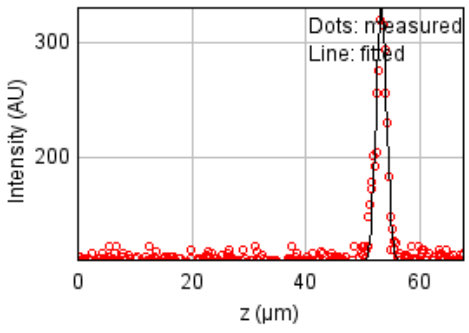




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.946

Parameters:
A = 305.390 (brightness)
B = 120.837 (background)
a = 0.877 px
b = -0.079 px
c = 0.316 px
xc = 6.544 px
yc = 7.181 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 17845.1347
Standard deviation: 7.62414
R^2: 0.95035
Parameters:
a = 110.46348
b = 331.65309
c = 53.29941
d = 0.90995

## Bead 2863

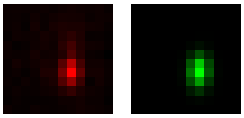
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

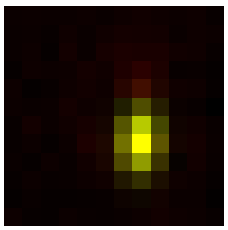
Coordinates : 131 um (x), -39.7 um (y), 54.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 374 nm | 389 nm | 270 nm |
| **max** | 608 nm | 634 nm | 270 nm |
| **z** | 1.93 um | 1.93 um | 1.3 um |
| **Asymmetry** | 0.615 | | |
| **Theta** | 87.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

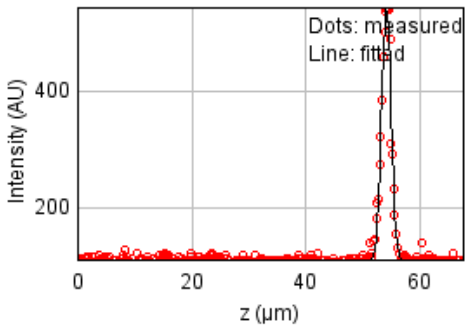




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 400.788 (brightness)
B = 117.776 (background)
a = 0.959 px
b = 0.027 px
c = 0.364 px
xc = 6.929 px
yc = 6.829 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24881.1650
Standard deviation: 9.00256
R^2: 0.97928
Parameters:
a = 111.53654
b = 543.35672
c = 54.17873
d = 0.81762

## Bead 2864

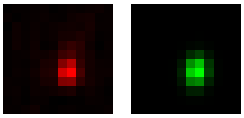
Date : Mon Oct 17 13:53:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

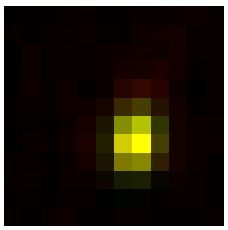
Coordinates : 17.1 um (x), -54.9 um (y), 54.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 406 nm | 422 nm | 270 nm |
| **max** | 551 nm | 574 nm | 270 nm |
| **z** | 1.97 um | 1.98 um | 1.3 um |
| **Asymmetry** | 0.736 | | |
| **Theta** | 82.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

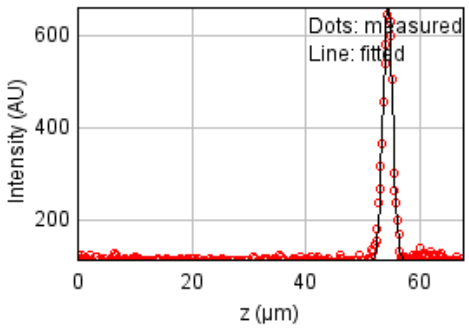




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.958

Parameters:
A = 575.048 (brightness)
B = 121.901 (background)
a = 0.809 px
b = 0.049 px
c = 0.449 px
xc = 6.645 px
yc = 6.837 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36540.5381
Standard deviation: 10.90984
R^2: 0.98171
Parameters:
a = 114.00651
b = 665.93567
c = 54.44740
d = 0.83564

## Bead 2865

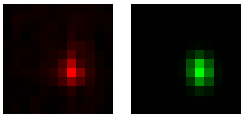
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

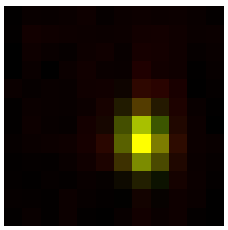
Coordinates : 151 um (x), -60.4 um (y), 53.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 396 nm | 413 nm | 270 nm |
| **max** | 552 nm | 575 nm | 270 nm |
| **z** | 2.08 um | 2.09 um | 1.3 um |
| **Asymmetry** | 0.718 | | |
| **Theta** | -84.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

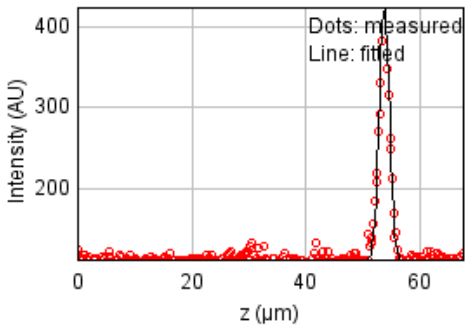




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.925

Parameters:
A = 323.183 (brightness)
B = 117.997 (background)
a = 0.850 px
b = -0.040 px
c = 0.444 px
xc = 7.066 px
yc = 6.827 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20400.0166
Standard deviation: 8.15166
R^2: 0.97040
Parameters:
a = 110.75394
b = 424.41982
c = 53.82552
d = 0.88470

## Bead 2866

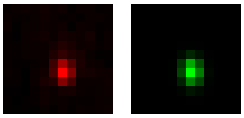
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

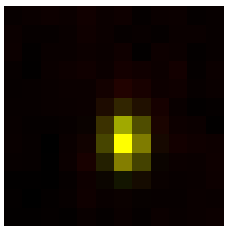
Coordinates : -123 um (x), 87.9 um (y), 54.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 363 nm | 378 nm | 270 nm |
| **max** | 493 nm | 513 nm | 270 nm |
| **z** | 1.93 um | 1.94 um | 1.3 um |
| **Asymmetry** | 0.737 | | |
| **Theta** | -85.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

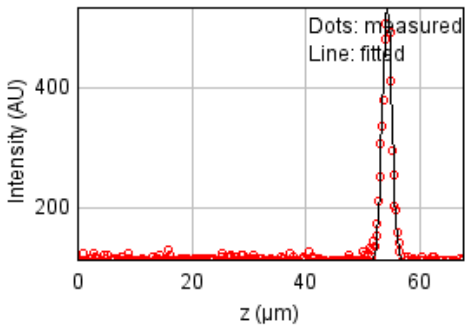




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.970

Parameters:
A = 435.505 (brightness)
B = 117.651 (background)
a = 1.016 px
b = -0.036 px
c = 0.555 px
xc = 6.141 px
yc = 6.877 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21532.4229
Standard deviation: 8.37485
R^2: 0.98113
Parameters:
a = 112.32978
b = 533.35503
c = 54.31061
d = 0.81913

## Bead 2867

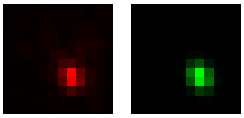
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

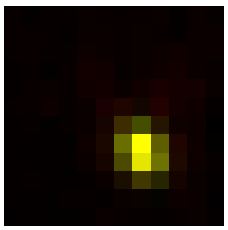
Coordinates : -9.68 um (x), 87.6 um (y), 54.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 370 nm | 385 nm | 270 nm |
| **max** | 477 nm | 497 nm | 270 nm |
| **z** | 1.79 um | 1.8 um | 1.3 um |
| **Asymmetry** | 0.775 | | |
| **Theta** | -66.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

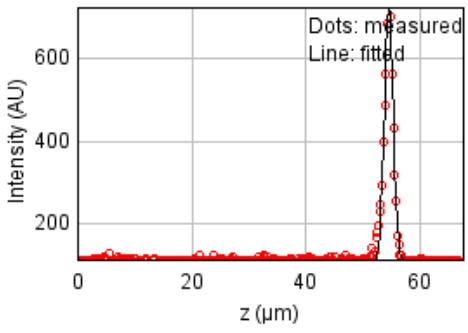




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.967

Parameters:
A = 669.902 (brightness)
B = 123.665 (background)
a = 0.921 px
b = -0.142 px
c = 0.651 px
xc = 7.023 px
yc = 7.424 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 28512.2844
Standard deviation: 9.63711
R^2: 0.98718
Parameters:
a = 113.23740
b = 724.30735
c = 54.60951
d = 0.75978

## Bead 2868

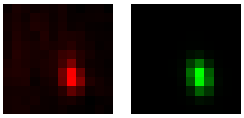
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

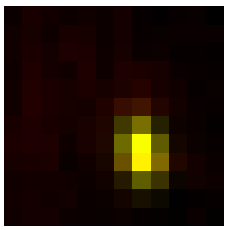
Coordinates : 89.8 um (x), 83.2 um (y), 54.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 371 nm | 386 nm | 270 nm |
| **max** | 560 nm | 583 nm | 270 nm |
| **z** | 1.78 um | 1.78 um | 1.3 um |
| **Asymmetry** | 0.663 | | |
| **Theta** | -78.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

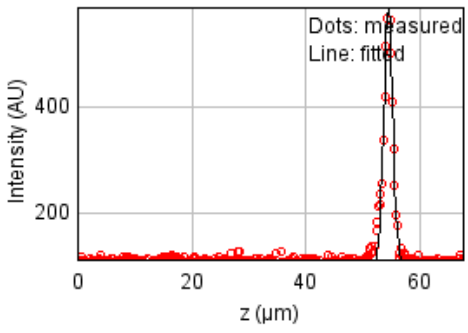




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.934

Parameters:
A = 553.533 (brightness)
B = 142.439 (background)
a = 0.955 px
b = -0.104 px
c = 0.449 px
xc = 7.005 px
yc = 7.436 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 31975.6347
Standard deviation: 10.20564
R^2: 0.97579
Parameters:
a = 113.61539
b = 583.42020
c = 54.52236
d = 0.75464

## Bead 2869

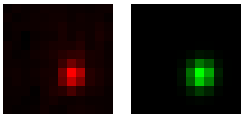
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

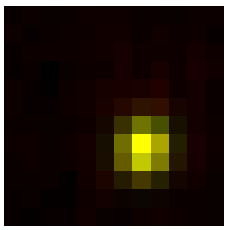
Coordinates : -115 um (x), 45.6 um (y), 54.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 456 nm | 475 nm | 270 nm |
| **max** | 513 nm | 534 nm | 270 nm |
| **z** | 1.9 um | 1.91 um | 1.3 um |
| **Asymmetry** | 0.89 | | |
| **Theta** | 78.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

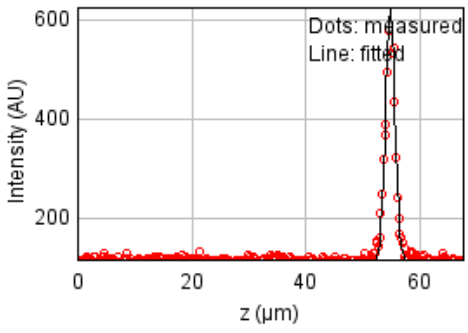




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.970

Parameters:
A = 550.927 (brightness)
B = 119.433 (background)
a = 0.639 px
b = 0.026 px
c = 0.515 px
xc = 7.147 px
yc = 7.257 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 32857.2185
Standard deviation: 10.34537
R^2: 0.98030
Parameters:
a = 114.93307
b = 627.13890
c = 54.86415
d = 0.80751

## Bead 2870

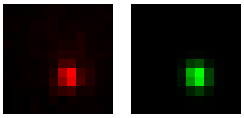
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

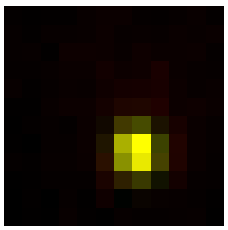
Coordinates : -101 um (x), 41.4 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 391 nm | 407 nm | 270 nm |
| **max** | 455 nm | 474 nm | 270 nm |
| **z** | 1.79 um | 1.8 um | 1.3 um |
| **Asymmetry** | 0.859 | | |
| **Theta** | -77.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

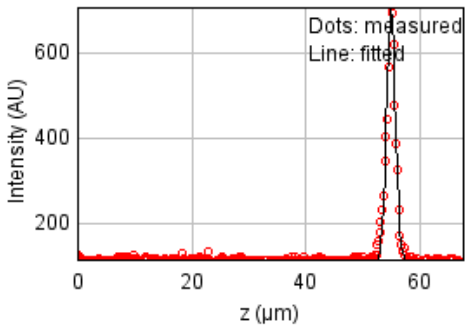




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.964

Parameters:
A = 748.913 (brightness)
B = 127.997 (background)
a = 0.866 px
b = -0.049 px
c = 0.659 px
xc = 6.741 px
yc = 7.409 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 37598.0175
Standard deviation: 11.06658
R^2: 0.98222
Parameters:
a = 113.84927
b = 708.05739
c = 54.99039
d = 0.76059

## Bead 2871

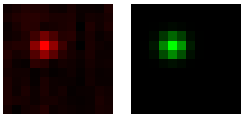
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

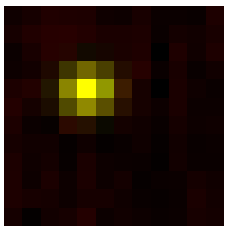
Coordinates : -158 um (x), 13.5 um (y), 6.43 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 419 nm | 437 nm | 270 nm |
| **max** | 481 nm | 501 nm | 270 nm |
| **z** | 2.73 um | 2.74 um | 1.3 um |
| **Asymmetry** | 0.872 | | |
| **Theta** | 3.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

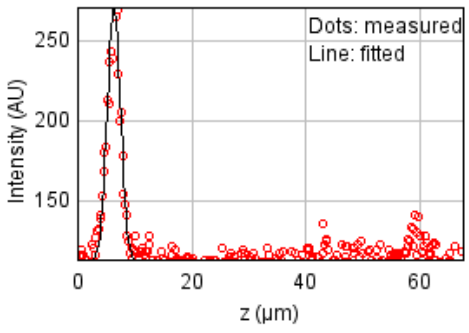




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.917

Parameters:
A = 190.605 (brightness)
B = 114.054 (background)
a = 0.581 px
b = 0.012 px
c = 0.763 px
xc = 4.055 px
yc = 4.094 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19827.2341
Standard deviation: 8.03641
R^2: 0.91634
Parameters:
a = 113.24511
b = 270.48848
c = 6.42835
d = 1.16070

## Bead 2872

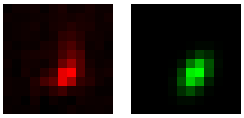
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

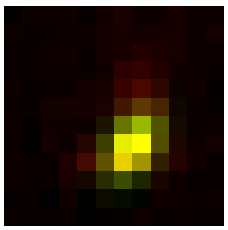
Coordinates : 127 um (x), -11.6 um (y), 54.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 422 nm | 440 nm | 270 nm |
| **max** | 658 nm | 686 nm | 270 nm |
| **z** | 2.12 um | 2.13 um | 1.3 um |
| **Asymmetry** | 0.641 | | |
| **Theta** | 58.7° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

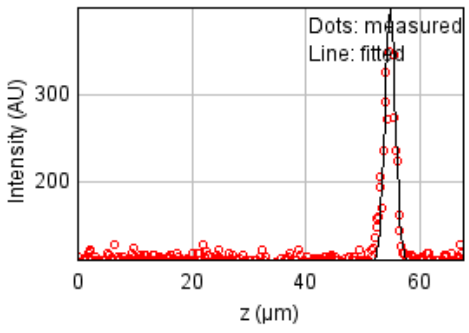




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.907

Parameters:
A = 359.627 (brightness)
B = 121.680 (background)
a = 0.634 px
b = 0.197 px
c = 0.429 px
xc = 6.524 px
yc = 7.099 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 42728.1279
Standard deviation: 11.79744
R^2: 0.93164
Parameters:
a = 110.52747
b = 400.69487
c = 54.84910
d = 0.90092

## Bead 2873

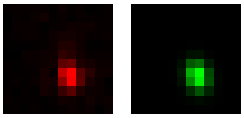
Date : Mon Oct 17 13:53:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

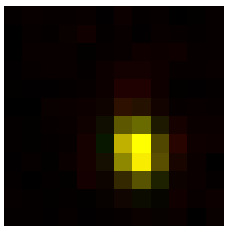
Coordinates : -158 um (x), -16.9 um (y), 54.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 399 nm | 416 nm | 270 nm |
| **max** | 541 nm | 563 nm | 270 nm |
| **z** | 1.99 um | 2.0 um | 1.3 um |
| **Asymmetry** | 0.738 | | |
| **Theta** | -76.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

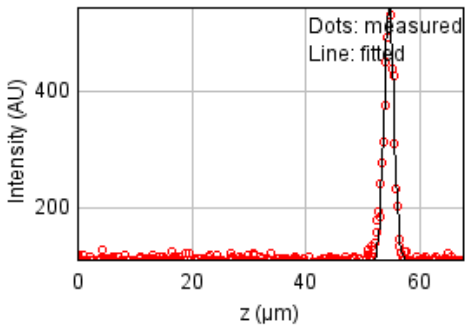




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.969

Parameters:
A = 512.273 (brightness)
B = 118.015 (background)
a = 0.821 px
b = -0.088 px
c = 0.480 px
xc = 6.764 px
yc = 7.373 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 26105.3058
Standard deviation: 9.22136
R^2: 0.97934
Parameters:
a = 110.68182
b = 546.23839
c = 54.65184
d = 0.84713

## Bead 2874

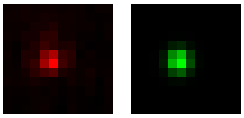
Date : Mon Oct 17 13:53:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

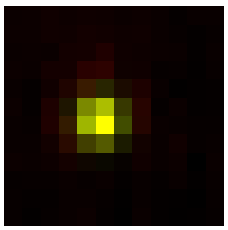
Coordinates : -148 um (x), -75.5 um (y), 50.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 417 nm | 434 nm | 270 nm |
| **max** | 447 nm | 466 nm | 270 nm |
| **z** | 2.15 um | 2.16 um | 1.3 um |
| **Asymmetry** | 0.932 | | |
| **Theta** | -86.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

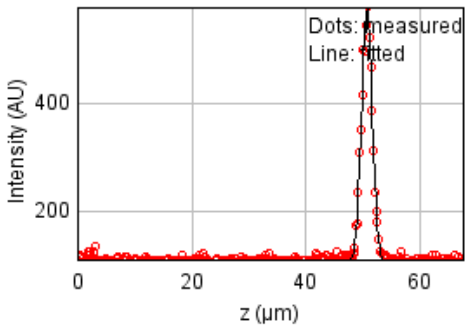




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.929

Parameters:
A = 479.626 (brightness)
B = 118.034 (background)
a = 0.771 px
b = -0.007 px
c = 0.671 px
xc = 4.718 px
yc = 5.720 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 17254.9937
Standard deviation: 7.49701
R^2: 0.98879
Parameters:
a = 110.95324
b = 576.76254
c = 50.77051
d = 0.91466

## Bead 2875 (Rejected)

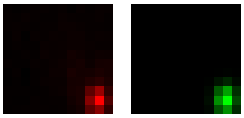
Date : Mon Oct 17 13:53:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

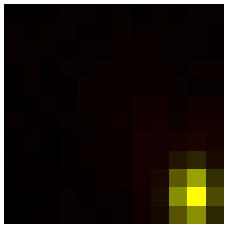
Coordinates : 37.1 um (x), 90.3 um (y), 52.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 383 nm | 399 nm | 270 nm |
| **max** | 507 nm | 528 nm | 270 nm |
| **z** | 2.3 um | 2.31 um | 1.3 um |
| **Asymmetry** | 0.756 | | |
| **Theta** | 89.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

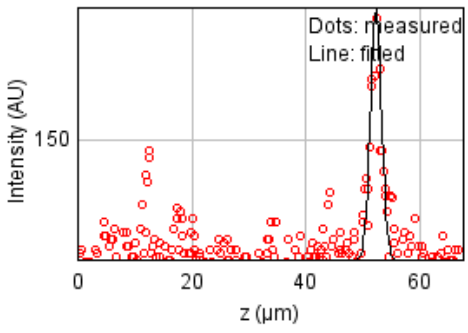




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.974

Parameters:
A = 1112.426 (brightness)
B = 133.761 (background)
a = 0.914 px
b = 0.005 px
c = 0.522 px
xc = 9.818 px
yc = 9.944 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 17250.6723
Standard deviation: 7.49607
R^2: 0.70394
Parameters:
a = 114.59093
b = 188.68893
c = 52.35993
d = 0.97719

## Bead 2876

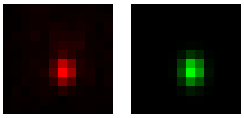
Date : Mon Oct 17 13:53:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

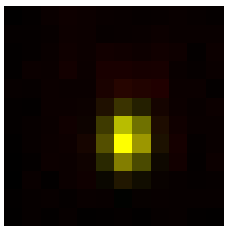
Coordinates : -121 um (x), 54.9 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 398 nm | 414 nm | 270 nm |
| **max** | 517 nm | 538 nm | 270 nm |
| **z** | 2.02 um | 2.03 um | 1.3 um |
| **Asymmetry** | 0.77 | | |
| **Theta** | 89.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

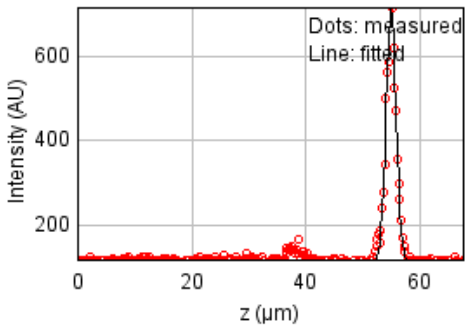




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.965

Parameters:
A = 650.975 (brightness)
B = 123.332 (background)
a = 0.849 px
b = 0.004 px
c = 0.503 px
xc = 6.191 px
yc = 6.798 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 40797.1288
Standard deviation: 11.52778
R^2: 0.98309
Parameters:
a = 115.82271
b = 715.05461
c = 55.00173
d = 0.85824

## Bead 2877 (Rejected)

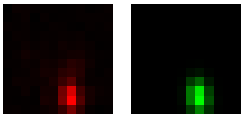
Date : Mon Oct 17 13:53:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

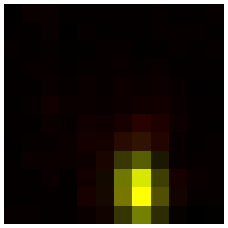
Coordinates : 76.5 um (x), 41.1 um (y), 51.1 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 370 nm | 385 nm | 270 nm |
| **max** | 586 nm | 610 nm | 270 nm |
| **z** | 3.5 um | 3.51 um | 1.3 um |
| **Asymmetry** | 0.631 | | |
| **Theta** | -84.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

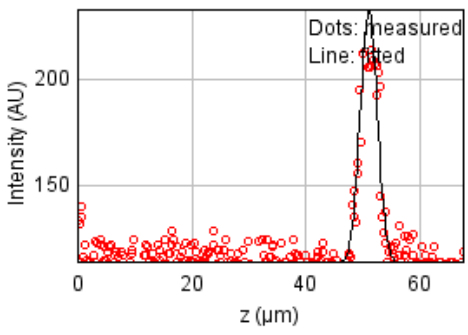




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.963

Parameters:
A = 682.865 (brightness)
B = 129.185 (background)
a = 0.977 px
b = -0.057 px
c = 0.397 px
xc = 6.873 px
yc = 9.609 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21498.3911
Standard deviation: 8.36823
R^2: 0.88053
Parameters:
a = 113.52190
b = 233.31313
c = 51.10168
d = 1.48604

## Bead 2878 (Rejected)

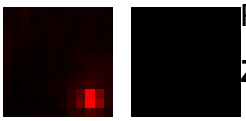
Date : Mon Oct 17 13:53:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

Coordinates : -77.0 um (x), 22.7 um (y), 32.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 0 | 0 | 270 nm |
| **max** | 0 | 0 | 270 nm |
| **z** | 3.68 um | 3.69 um | 1.3 um |
| **Asymmetry** | 0.0 | | |
| **Theta** | 0.0° | | |

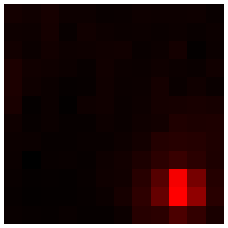
**XY profile & fitting parameters :**

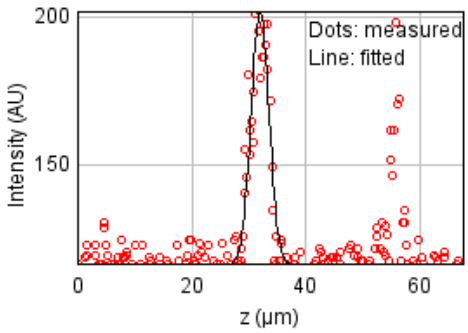
(red : the orignal data, green : the fit, yellow : the two merged)



Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)

**Z profile & fitting parameters:**






Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 55432.7754
Standard deviation: 13.43737
R^2: 0.60456
Parameters:
a = 116.47710
b = 202.11557
c = 32.05414
d = 1.56194

## Bead 2879

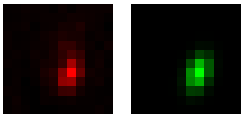
Date : Mon Oct 17 13:53:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

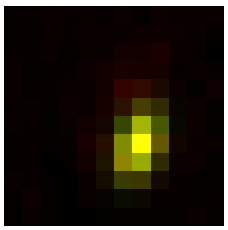
Coordinates : 129 um (x), 22.8 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 388 nm | 404 nm | 270 nm |
| **max** | 651 nm | 678 nm | 270 nm |
| **z** | 1.94 um | 1.94 um | 1.3 um |
| **Asymmetry** | 0.596 | | |
| **Theta** | 72.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

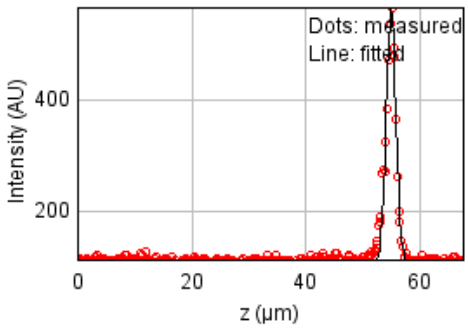




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.947

Parameters:
A = 489.323 (brightness)
B = 121.812 (background)
a = 0.837 px
b = 0.168 px
c = 0.371 px
xc = 6.852 px
yc = 7.029 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 41567.2891
Standard deviation: 11.63608
R^2: 0.96922
Parameters:
a = 112.19353
b = 566.45942
c = 55.00443
d = 0.82256

## Bead 2880

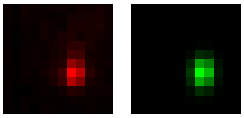
Date : Mon Oct 17 13:53:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

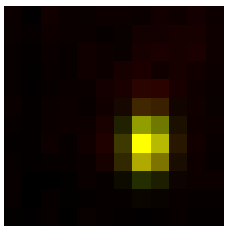
Coordinates : 85.0 um (x), -8.03 um (y), 55.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 384 nm | 400 nm | 270 nm |
| **max** | 547 nm | 570 nm | 270 nm |
| **z** | 1.99 um | 2.0 um | 1.3 um |
| **Asymmetry** | 0.701 | | |
| **Theta** | 86.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

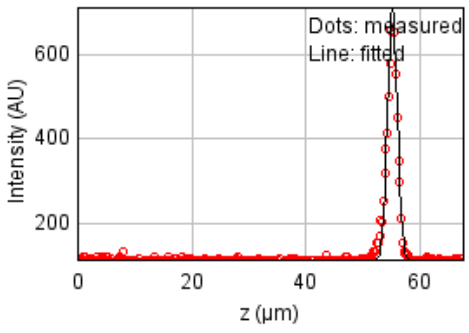




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 665.938 (brightness)
B = 130.586 (background)
a = 0.909 px
b = 0.029 px
c = 0.450 px
xc = 7.324 px
yc = 7.020 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 40280.9996
Standard deviation: 11.45463
R^2: 0.98300
Parameters:
a = 112.17624
b = 710.78861
c = 55.23812
d = 0.84418

## Bead 2881

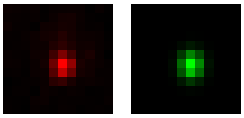
Date : Mon Oct 17 13:53:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

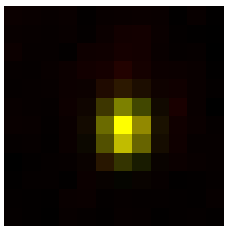
Coordinates : -91.3 um (x), -57.6 um (y), 55.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 424 nm | 442 nm | 270 nm |
| **max** | 522 nm | 543 nm | 270 nm |
| **z** | 1.93 um | 1.94 um | 1.3 um |
| **Asymmetry** | 0.813 | | |
| **Theta** | 88.6° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

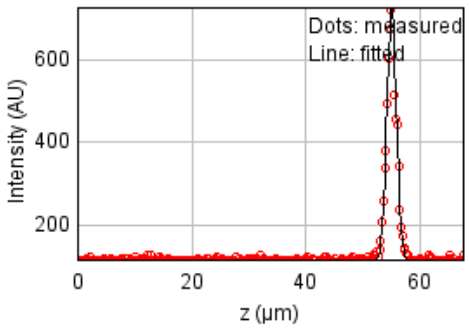




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.972

Parameters:
A = 610.793 (brightness)
B = 121.833 (background)
a = 0.745 px
b = 0.006 px
c = 0.493 px
xc = 6.083 px
yc = 6.189 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 32891.7581
Standard deviation: 10.35081
R^2: 0.98657
Parameters:
a = 113.95120
b = 732.45622
c = 55.10763
d = 0.81906

## Bead 2882

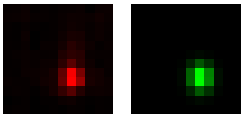
Date : Mon Oct 17 13:53:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

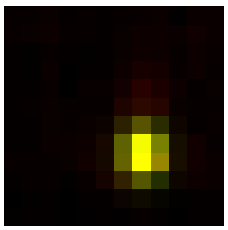
Coordinates : 24.9 um (x), -69.7 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 410 nm | 427 nm | 270 nm |
| **max** | 495 nm | 516 nm | 270 nm |
| **z** | 1.85 um | 1.86 um | 1.3 um |
| **Asymmetry** | 0.827 | | |
| **Theta** | -89.0° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

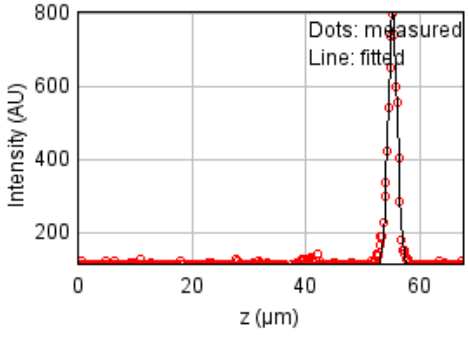




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.965

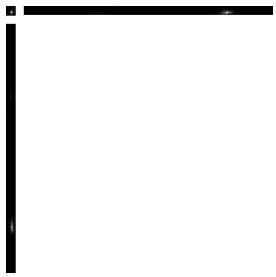
Parameters:
A = 790.477 (brightness)
B = 128.818 (background)
a = 0.800 px
b = -0.004 px
c = 0.547 px
xc = 7.091 px
yc = 7.516 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36343.3216
Standard deviation: 10.88036
R^2: 0.98770
Parameters:
a = 115.22573
b = 808.99850
c = 55.28811
d = 0.78466

## Bead 2883



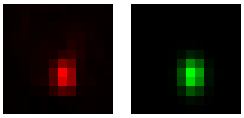
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

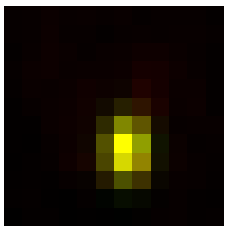
Coordinates : 36.6 um (x), 72.4 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 406 nm | 422 nm | 270 nm |
| **max** | 574 nm | 598 nm | 270 nm |
| **z** | 1.79 um | 1.8 um | 1.3 um |
| **Asymmetry** | 0.706 | | |
| **Theta** | 89.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

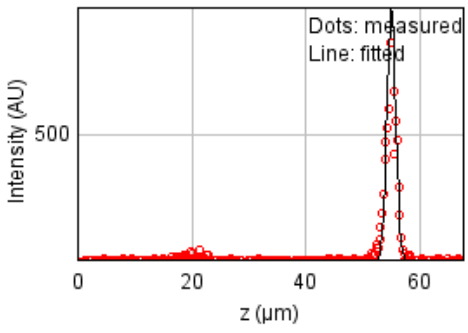




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

Parameters:
A = 989.748 (brightness)
B = 128.217 (background)
a = 0.816 px
b = 0.006 px
c = 0.407 px
xc = 6.207 px
yc = 7.287 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 290717.999
Standard deviation: 30.77278
R^2: 0.92411
Parameters:
a = 116.89236
b = 892.30431
c = 55.04962
d = 0.76109

## Bead 2884

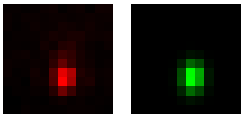
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

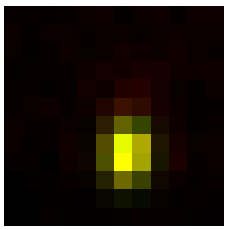
Coordinates : -147 um (x), 57.4 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 407 nm | 424 nm | 270 nm |
| **max** | 543 nm | 565 nm | 270 nm |
| **z** | 2.07 um | 2.08 um | 1.3 um |
| **Asymmetry** | 0.75 | | |
| **Theta** | 87.0° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

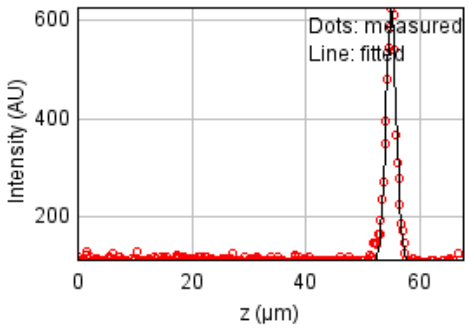




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.958

Parameters:
A = 626.639 (brightness)
B = 125.816 (background)
a = 0.810 px
b = 0.019 px
c = 0.457 px
xc = 6.238 px
yc = 7.507 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29210.1454
Standard deviation: 9.75434
R^2: 0.98396
Parameters:
a = 111.74078
b = 626.58844
c = 55.01540
d = 0.87978

## Bead 2885

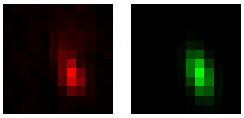
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

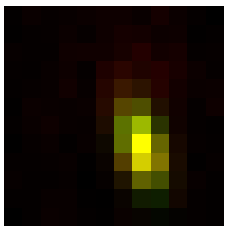
Coordinates : 163 um (x), 56.8 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 379 nm | 395 nm | 270 nm |
| **max** | 778 nm | 811 nm | 270 nm |
| **z** | 1.93 um | 1.94 um | 1.3 um |
| **Asymmetry** | 0.487 | | |
| **Theta** | -75.0° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

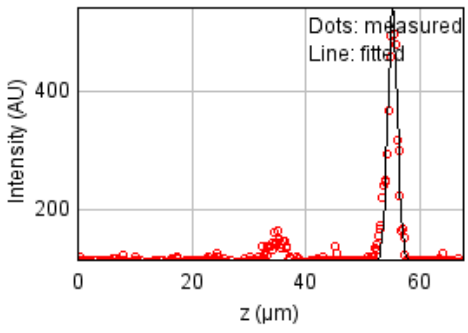




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.932

Parameters:
A = 432.760 (brightness)
B = 121.808 (background)
a = 0.886 px
b = -0.178 px
c = 0.269 px
xc = 6.993 px
yc = 7.093 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 57222.5984
Standard deviation: 13.65258
R^2: 0.95326
Parameters:
a = 113.22850
b = 542.65600
c = 55.26952
d = 0.82072

## Bead 2886

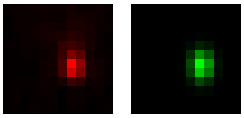
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

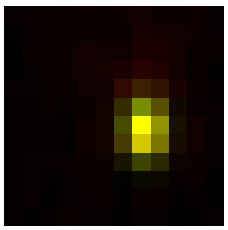
Coordinates : 66.7 um (x), 54.0 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 406 nm | 270 nm |
| **max** | 569 nm | 593 nm | 270 nm |
| **z** | 1.92 um | 1.93 um | 1.3 um |
| **Asymmetry** | 0.684 | | |
| **Theta** | -89.9° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

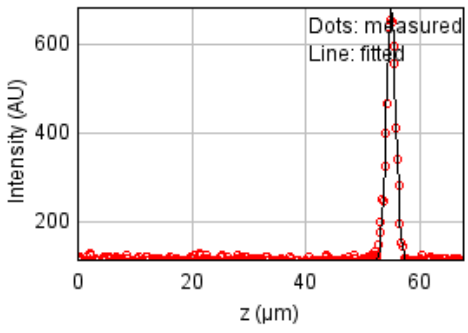




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.951

Parameters:
A = 550.070 (brightness)
B = 121.726 (background)
a = 0.885 px
b = -0.001 px
c = 0.414 px
xc = 7.192 px
yc = 6.212 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 28678.5872
Standard deviation: 9.66517
R^2: 0.98614
Parameters:
a = 112.96864
b = 681.92049
c = 55.00636
d = 0.81722

## Bead 2887

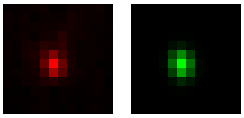
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

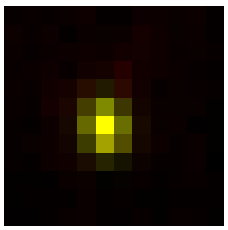
Coordinates : 24.6 um (x), 52.9 um (y), 51.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 391 nm | 408 nm | 270 nm |
| **max** | 504 nm | 525 nm | 270 nm |
| **z** | 2.05 um | 2.06 um | 1.3 um |
| **Asymmetry** | 0.776 | | |
| **Theta** | -81.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

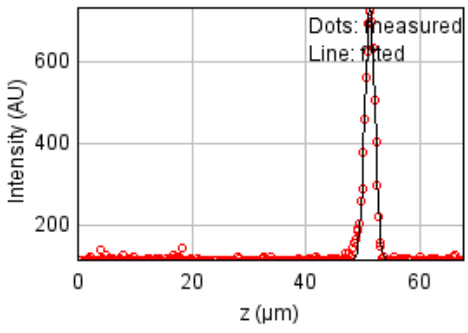




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.962

Parameters:
A = 583.267 (brightness)
B = 123.482 (background)
a = 0.868 px
b = -0.052 px
c = 0.536 px
xc = 5.017 px
yc = 6.077 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 31709.2352
Standard deviation: 10.16304
R^2: 0.98783
Parameters:
a = 113.79059
b = 733.51692
c = 51.29035
d = 0.87190

## Bead 2888

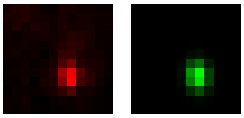
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

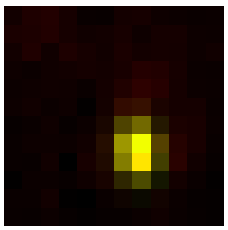
Coordinates : -126 um (x), 39.0 um (y), 55.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 375 nm | 391 nm | 270 nm |
| **max** | 521 nm | 542 nm | 270 nm |
| **z** | 1.88 um | 1.89 um | 1.3 um |
| **Asymmetry** | 0.721 | | |
| **Theta** | -85.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

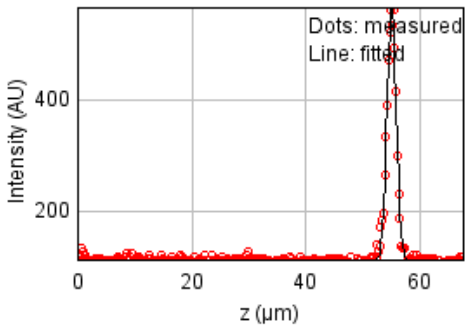




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.930

Parameters:
A = 518.290 (brightness)
B = 129.619 (background)
a = 0.949 px
b = -0.039 px
c = 0.498 px
xc = 6.793 px
yc = 7.374 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 18185.8314
Standard deviation: 7.69657
R^2: 0.98612
Parameters:
a = 111.87825
b = 569.44306
c = 55.09897
d = 0.79958

## Bead 2889

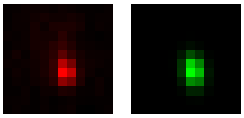
Date : Mon Oct 17 13:53:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

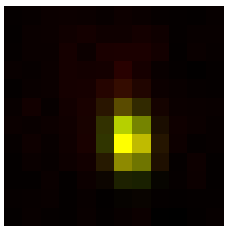
Coordinates : 128 um (x), 36.7 um (y), 54.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 375 nm | 390 nm | 270 nm |
| **max** | 579 nm | 603 nm | 270 nm |
| **z** | 2.12 um | 2.13 um | 1.3 um |
| **Asymmetry** | 0.647 | | |
| **Theta** | -82.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

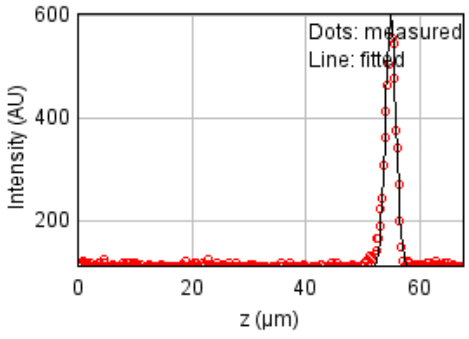




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 583.140 (brightness)
B = 123.076 (background)
a = 0.945 px
b = -0.072 px
c = 0.409 px
xc = 6.321 px
yc = 6.808 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29562.8816
Standard deviation: 9.81305
R^2: 0.98279
Parameters:
a = 112.10515
b = 605.87285
c = 54.94501
d = 0.90184

## Bead 2890

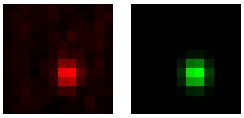
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

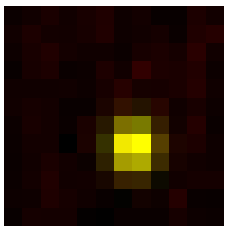
Coordinates : -161 um (x), 28.7 um (y), 54.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 427 nm | 445 nm | 270 nm |
| **max** | 485 nm | 506 nm | 270 nm |
| **z** | 1.9 um | 1.9 um | 1.3 um |
| **Asymmetry** | 0.88 | | |
| **Theta** | -89.4° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

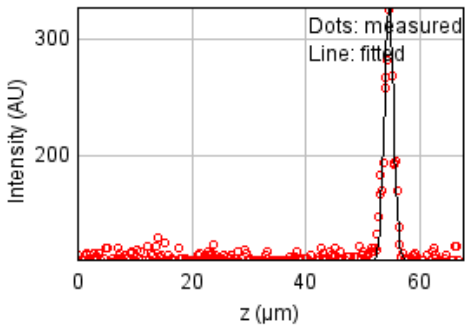




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.944

Parameters:
A = 248.114 (brightness)
B = 115.017 (background)
a = 0.735 px
b = -0.002 px
c = 0.569 px
xc = 6.561 px
yc = 7.146 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21980.7860
Standard deviation: 8.46160
R^2: 0.93036
Parameters:
a = 111.30327
b = 328.65955
c = 54.64889
d = 0.80541

## Bead 2891 (Rejected)

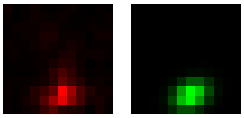
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

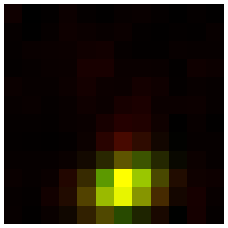
Coordinates : -136 um (x), 20.0 um (y), 51.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 460 nm | 479 nm | 270 nm |
| **max** | 644 nm | 671 nm | 270 nm |
| **z** | 3.65 um | 3.67 um | 1.3 um |
| **Asymmetry** | 0.715 | | |
| **Theta** | 25.7° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

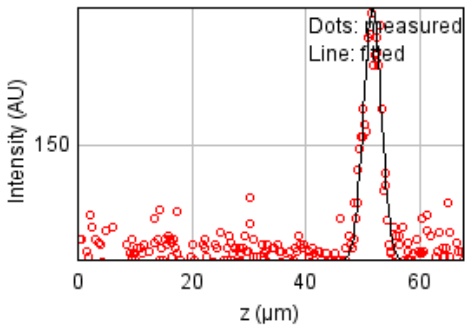




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.919

Parameters:
A = 462.649 (brightness)
B = 125.939 (background)
a = 0.382 px
b = 0.121 px
c = 0.576 px
xc = 6.028 px
yc = 9.457 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 15469.0940
Standard deviation: 7.09845
R^2: 0.83942
Parameters:
a = 111.66044
b = 195.55508
c = 51.75138
d = 1.55207

## Bead 2892

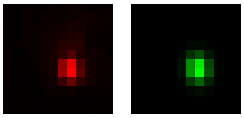
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

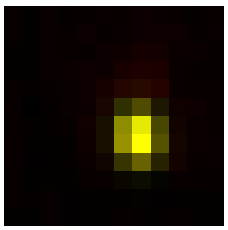
Coordinates : 3.26 um (x), -6.18 um (y), 55.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 397 nm | 413 nm | 270 nm |
| **max** | 508 nm | 529 nm | 270 nm |
| **z** | 2.12 um | 2.13 um | 1.3 um |
| **Asymmetry** | 0.781 | | |
| **Theta** | -85.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

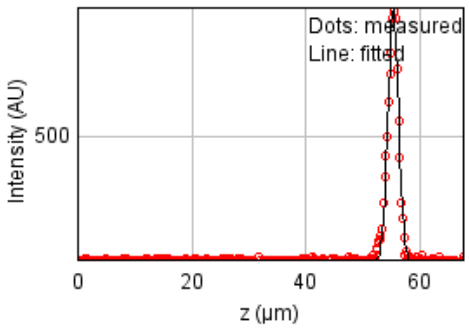




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.970

Parameters:
A = 906.633 (brightness)
B = 132.128 (background)
a = 0.851 px
b = -0.028 px
c = 0.523 px
xc = 6.814 px
yc = 6.576 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 52307.4179
Standard deviation: 13.05306
R^2: 0.98823
Parameters:
a = 112.02398
b = 909.50040
c = 55.37649
d = 0.89934

## Bead 2893

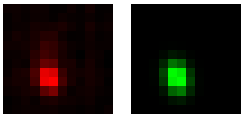
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

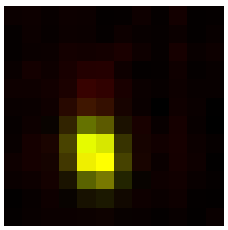
Coordinates : -137 um (x), -16.5 um (y), 51.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 430 nm | 448 nm | 270 nm |
| **max** | 578 nm | 602 nm | 270 nm |
| **z** | 2.19 um | 2.2 um | 1.3 um |
| **Asymmetry** | 0.744 | | |
| **Theta** | -76.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

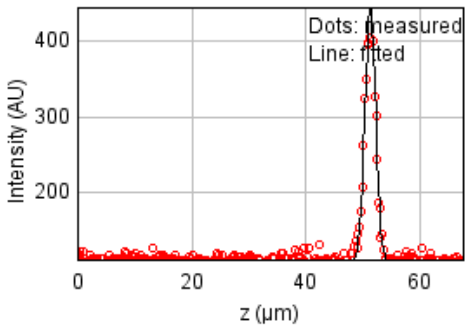




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.952

Parameters:
A = 384.654 (brightness)
B = 118.579 (background)
a = 0.707 px
b = -0.074 px
c = 0.420 px
xc = 4.495 px
yc = 7.529 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 18299.2666
Standard deviation: 7.72054
R^2: 0.97743
Parameters:
a = 111.70383
b = 445.42543
c = 51.35487
d = 0.92843

## Bead 2894 (Rejected)

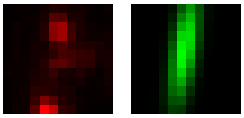
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

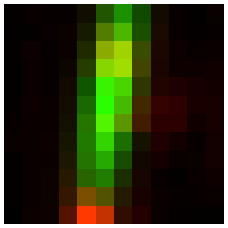
Coordinates : -136 um (x), -60.7 um (y), 56.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 469 nm | 488 nm | 270 nm |
| **max** | 2.06 um | 2.15 um | 270 nm |
| **z** | 2.08 um | 2.09 um | 1.3 um |
| **Asymmetry** | 0.227 | | |
| **Theta** | 81.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

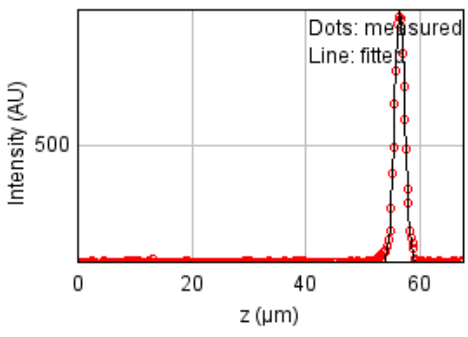




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.617

Parameters:
A = 151.868 (brightness)
B = 155.556 (background)
a = 0.597 px
b = 0.093 px
c = -0.018 px
xc = 5.336 px
yc = 4.343 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 23123.8914
Standard deviation: 8.67883
R^2: 0.99517
Parameters:
a = 111.91715
b = 949.57454
c = 56.49805
d = 0.88343

## Bead 2895

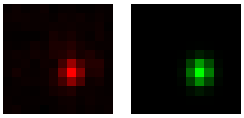
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

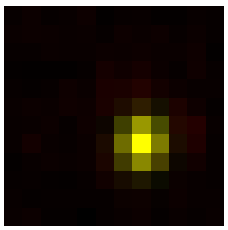
Coordinates : -151 um (x), -92.1 um (y), 55.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 410 nm | 427 nm | 270 nm |
| **max** | 485 nm | 505 nm | 270 nm |
| **z** | 2.33 um | 2.33 um | 1.3 um |
| **Asymmetry** | 0.846 | | |
| **Theta** | 86.8° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

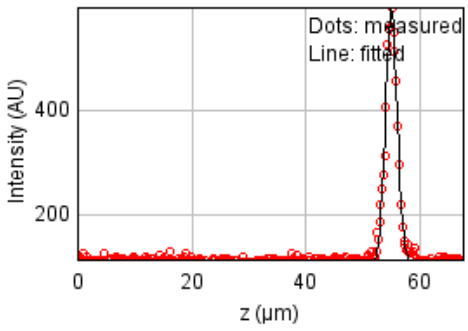




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.960

Parameters:
A = 482.209 (brightness)
B = 120.021 (background)
a = 0.796 px
b = 0.013 px
c = 0.572 px
xc = 7.041 px
yc = 6.951 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21719.3757
Standard deviation: 8.41113
R^2: 0.98800
Parameters:
a = 112.49093
b = 599.24742
c = 55.04551
d = 0.98752

## Bead 2896

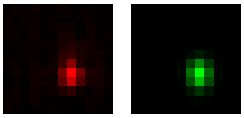
Date : Mon Oct 17 13:53:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

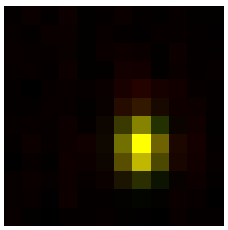
Coordinates : -135 um (x), 89.6 um (y), 55.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 387 nm | 403 nm | 270 nm |
| **max** | 516 nm | 537 nm | 270 nm |
| **z** | 1.86 um | 1.86 um | 1.3 um |
| **Asymmetry** | 0.751 | | |
| **Theta** | -88.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

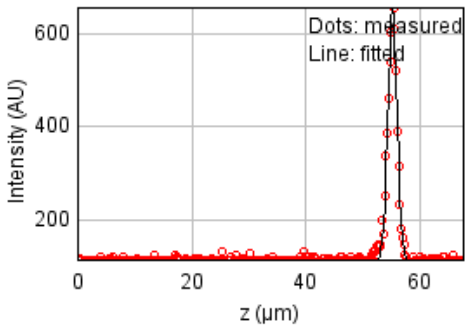




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.963

Parameters:
A = 568.545 (brightness)
B = 119.116 (background)
a = 0.895 px
b = -0.012 px
c = 0.505 px
xc = 6.965 px
yc = 7.164 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21693.9358
Standard deviation: 8.40621
R^2: 0.98815
Parameters:
a = 112.43113
b = 657.55142
c = 55.24762
d = 0.78816

## Bead 2897

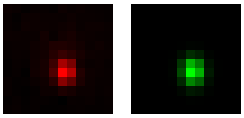
Date : Mon Oct 17 13:53:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

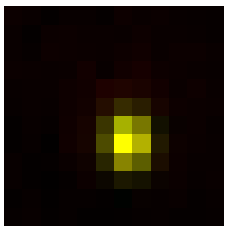
Coordinates : 16.3 um (x), 86.4 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 410 nm | 427 nm | 270 nm |
| **max** | 510 nm | 531 nm | 270 nm |
| **z** | 1.92 um | 1.93 um | 1.3 um |
| **Asymmetry** | 0.804 | | |
| **Theta** | -87.2° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

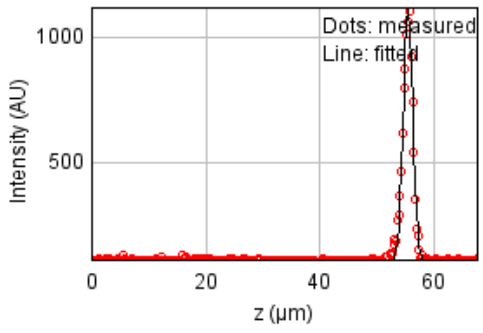




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.977

Parameters:
A = 976.583 (brightness)
B = 130.009 (background)
a = 0.799 px
b = -0.014 px
c = 0.517 px
xc = 6.268 px
yc = 6.864 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 63440.1308
Standard deviation: 14.37517
R^2: 0.99010
Parameters:
a = 114.78969
b = 1118.68208
c = 55.50966
d = 0.81585

## Bead 2898

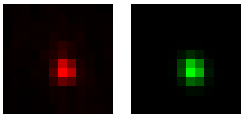
Date : Mon Oct 17 13:53:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

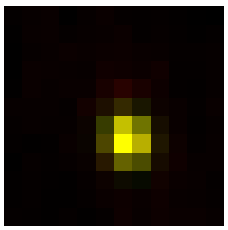
Coordinates : -60.2 um (x), 65.3 um (y), 55.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 397 nm | 414 nm | 270 nm |
| **max** | 470 nm | 489 nm | 270 nm |
| **z** | 2.06 um | 2.07 um | 1.3 um |
| **Asymmetry** | 0.845 | | |
| **Theta** | -74.5° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

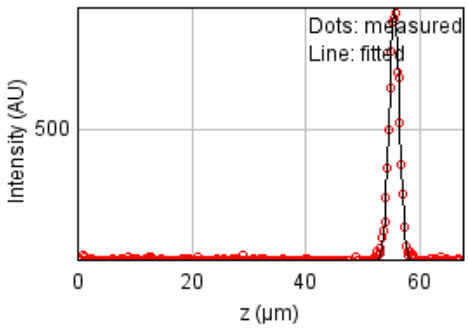




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 829.369 (brightness)
B = 129.986 (background)
a = 0.834 px
b = -0.063 px
c = 0.625 px
xc = 6.254 px
yc = 6.755 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20853.7469
Standard deviation: 8.24181
R^2: 0.99457
Parameters:
a = 113.28542
b = 866.63399
c = 55.55437
d = 0.87471

## Bead 2899

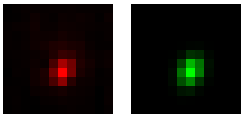
Date : Mon Oct 17 13:53:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

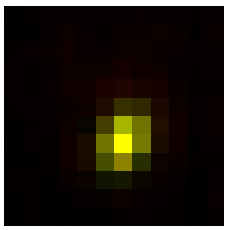
Coordinates : -41.1 um (x), 47.9 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 402 nm | 419 nm | 270 nm |
| **max** | 548 nm | 571 nm | 270 nm |
| **z** | 1.95 um | 1.96 um | 1.3 um |
| **Asymmetry** | 0.734 | | |
| **Theta** | 66.3° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

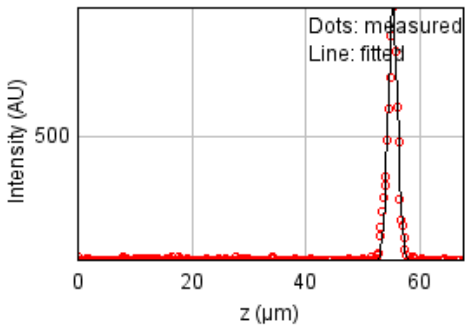




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.970

Parameters:
A = 799.731 (brightness)
B = 126.506 (background)
a = 0.769 px
b = 0.141 px
c = 0.509 px
xc = 6.049 px
yc = 6.820 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 62442.5848
Standard deviation: 14.26170
R^2: 0.98450
Parameters:
a = 114.17145
b = 902.01557
c = 55.31241
d = 0.82907

## Bead 2900

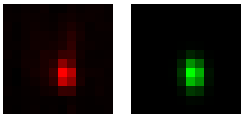
Date : Mon Oct 17 13:53:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x0.95 air )
Frame size : 12 pixels

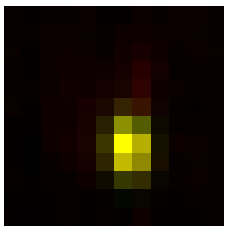
Coordinates : 77.5 um (x), 11.7 um (y), 55.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 370 nm | 386 nm | 270 nm |
| **max** | 551 nm | 574 nm | 270 nm |
| **z** | 2.05 um | 2.06 um | 1.3 um |
| **Asymmetry** | 0.672 | | |
| **Theta** | -86.1° | | |

### XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

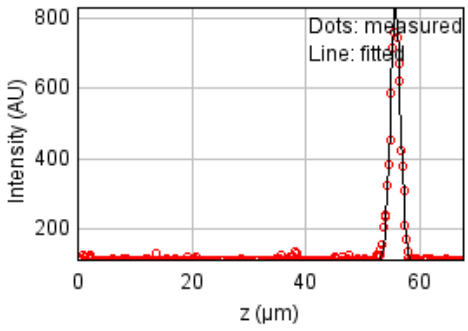




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.959

Parameters:
A = 826.542 (brightness)
B = 132.493 (background)
a = 0.977 px
b = -0.036 px
c = 0.445 px
xc = 6.310 px
yc = 7.170 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 31761.1360
Standard deviation: 10.17136
R^2: 0.99092
Parameters:
a = 112.80779
b = 833.03684
c = 55.74527
d = 0.86913