Bead 901

Date : Mon Oct 17 13:28:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
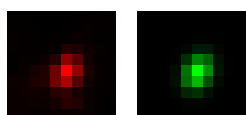
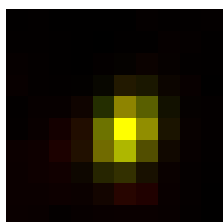Coordinates : -99.4 um (x), -44.9 um (y), 19.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.38 um	1.39 um	885 nm
Asymmetry	0.755		
Theta	63.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.973$

Parameters:
 A = 956.967   (brightness)
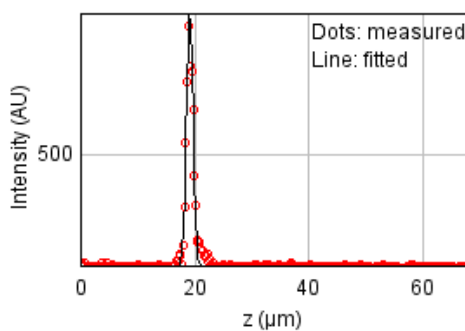 B = 128.920   (background)
 a = 0.693 px
 b = 0.132 px
 c = 0.500 px

xc = 5.045 px
yc = 5.152 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 82058.0284
Standard deviation: 16.34901
R^2: 0.97772
Parameters:
 a = 113.11923
 b = 998.67274
 c = 19.18387
 d = 0.58805

Bead 902

Date : Mon Oct 17 13:28:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
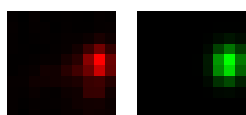Frame size : 10 pixels

Coordinates : -37.4 um (x), -57.7 um (y), 24.8 um (z)
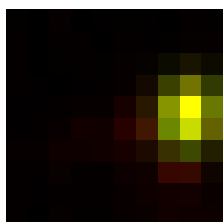Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	535 nm	554 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.846		
Theta	80.6°		

XY profile & fitting parameters :

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

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

Parameters:
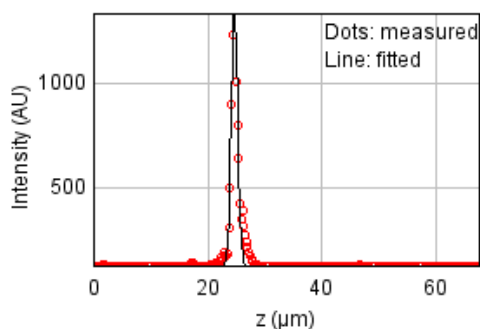 A = 1238.833   (brightness)
 B = 142.862   (background)
 a = 0.649 px
 b = 0.030 px
 c = 0.473 px

  xc = 7.900 px
  yc = 4.344 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 248654.228
Standard deviation: 28.45960
R^2: 0.96464
Parameters:
 a = 118.05889
 b = 1360.37902
 c = 24.75373
 d = 0.56214

Bead 903

Date : Mon Oct 17 13:28:39 PDT 2022
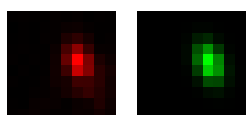Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 38.1 um (x), -62.5 um (y), 19.2 um (z)
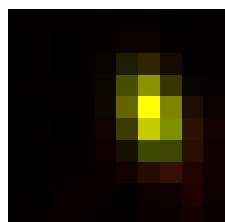Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	411 nm	223 nm
max	626 nm	647 nm	223 nm
z	1.17 um	1.17 um	885 nm
Asymmetry	0.635		
Theta	-71.3°		

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:
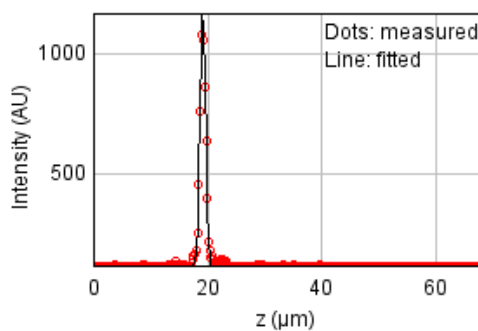A = 1031.041   (brightness)
B = 132.861   (background)
a = 0.798 px
b = -0.154 px
c = 0.395 px

xc = 6.135 px
yc = 4.264 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 36788.4105
Standard deviation: 10.94678
R^2: 0.99156
Parameters:
a = 114.54972
b = 1168.59942
c = 19.19016
d = 0.49599

Bead 904 (Rejected)

Date : Mon Oct 17 13:28:40 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 40.7 um (x), -80.5 um (y), 43.4 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

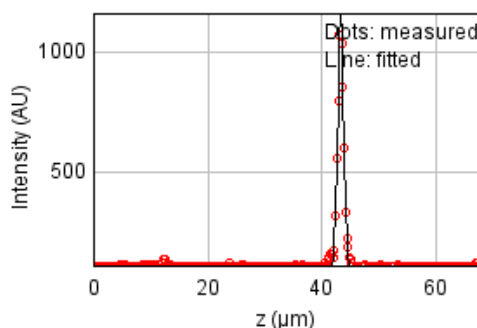| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 29439.3396
Standard deviation: 9.79253
R^2: 0.99331
Parameters:
 a = 115.26835
 b = 1158.34792
 c = 43.35449
 d = 0.51246

Bead 905

Date : Mon Oct 17 13:28:40 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
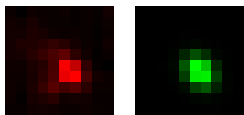Frame size : 10 pixels

Coordinates : -117 um (x), 60.6 um (y), 19.7 um (z)
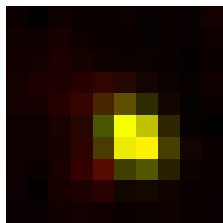Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	517 nm	535 nm	223 nm
z	2.3 um	2.31 um	885 nm
Asymmetry	0.787		
Theta	-50.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.927$

Parameters:
A = 614.685   (brightness)
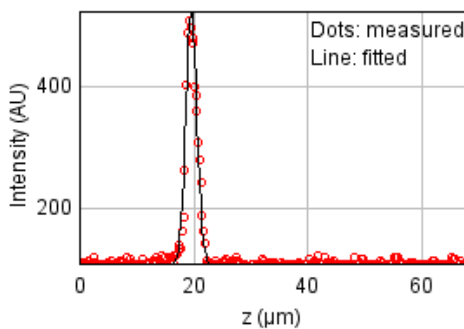B = 129.234   (background)
a = 0.685 px
b = -0.152 px
c = 0.627 px

xc = 5.415 px
yc = 5.534 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 48384.0886
Standard deviation: 12.55400
R^2: 0.96324
Parameters:
 a = 110.52094
 b = 522.53071
 c = 19.65787
 d = 0.97682

Bead 906

Date : Mon Oct 17 13:28:40 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
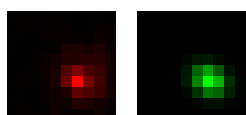Frame size : 10 pixels

Coordinates : 61.2 um (x), 52.6 um (y), 20.4 um (z)
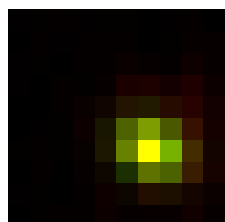Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	450 nm	223 nm
max	538 nm	557 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.808		
Theta	-29.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.913$

Parameters:
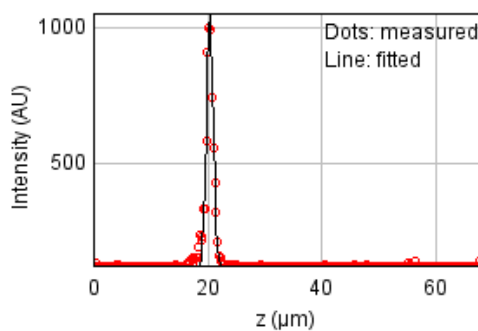 A = 745.222   (brightness)
 B = 133.753   (background)
 a = 0.522 px
 b = -0.106 px
 c = 0.650 px

xc = 6.134 px
yc = 5.898 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 86917.2205
Standard deviation: 16.82611
R^2: 0.97910
Parameters:
 a = 114.84528
 b = 1054.15298
 c = 20.44692
 d = 0.59096

Bead 907

Date : Mon Oct 17 13:28:40 PDT 2022
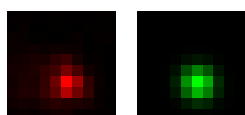Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -91.5 um (x), 49.2 um (y), 20.3 um (z)
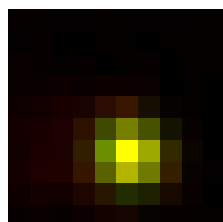Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	502 nm	519 nm	223 nm
max	523 nm	541 nm	223 nm
z	1.71 um	1.71 um	885 nm
Asymmetry	0.96		
Theta	-25.0°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.933$

Parameters:
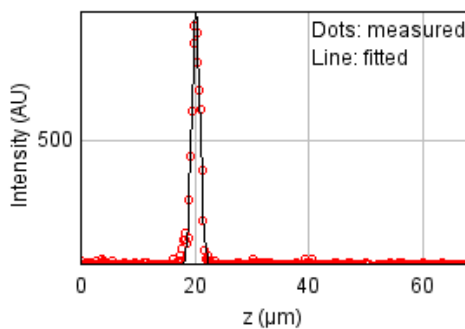 A = 727.384   (brightness)
 B = 135.060   (background)
 a = 0.498 px
 b = -0.016 px
 c = 0.524 px

xc = 5.089 px
yc = 6.169 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51697.3129
Standard deviation: 12.97672
R^2: 0.98533
Parameters:
 a = 113.48653
 b = 899.49548
 c = 20.28097
 d = 0.72526

Bead 908

Date : Mon Oct 17 13:28:40 PDT 2022
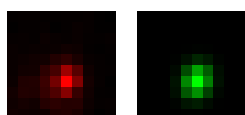Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -76.3 um (x), 26.0 um (y), 20.0 um (z)
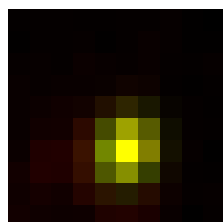Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	439 nm	454 nm	223 nm
max	523 nm	540 nm	223 nm
z	2.27 um	2.28 um	885 nm
Asymmetry	0.839		
Theta	69.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 656.931   (brightness)
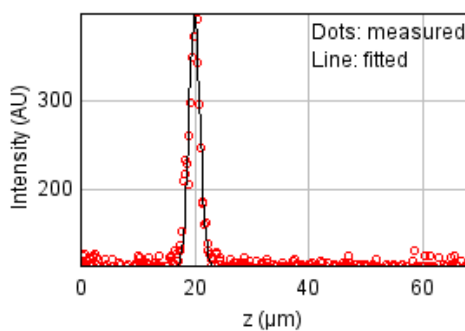 B = 132.512   (background)
 a = 0.672 px
 b = 0.067 px
 c = 0.516 px

 xc = 4.978 px
 yc = 5.942 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38057.5208
Standard deviation: 11.13400
R^2: 0.94013
Parameters:
 a = 113.39712
 b = 397.95543
 c = 20.04323
 d = 0.96468

Bead 909

Date : Mon Oct 17 13:28:40 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
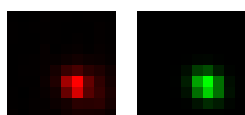Frame size : 10 pixels

Coordinates : 61.1 um (x), 23.7 um (y), 20.4 um (z)
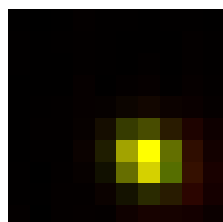Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	483 nm	500 nm	223 nm
z	1.51 um	1.52 um	885 nm
Asymmetry	0.86		
Theta	-36.0°		

XY profile & fitting parameters :

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

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

Parameters:
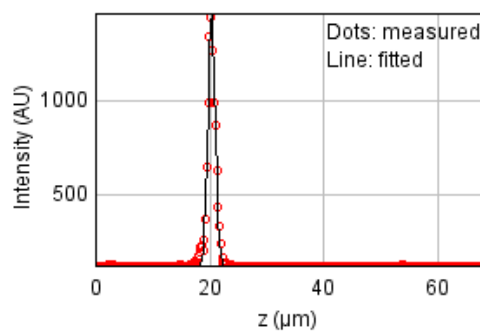 A = 1481.017   (brightness)
 B = 135.319   (background)
 a = 0.644 px
 b = -0.096 px
 c = 0.706 px

xc = 5.902 px
yc = 6.344 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 112848.882
Standard deviation: 19.17253
R^2: 0.98792
Parameters:
 a = 115.05917
 b = 1473.07991
 c = 20.40597
 d = 0.64253

Bead 910

Date : Mon Oct 17 13:28:40 PDT 2022
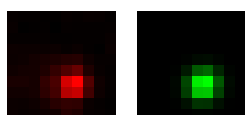Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -104 um (x), 20.8 um (y), 20.0 um (z)
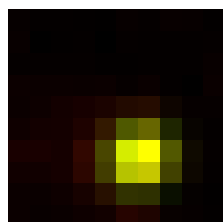Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	470 nm	485 nm	223 nm
max	495 nm	512 nm	223 nm
z	1.97 um	1.97 um	885 nm
Asymmetry	0.949		
Theta	36.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 675.444   (brightness)
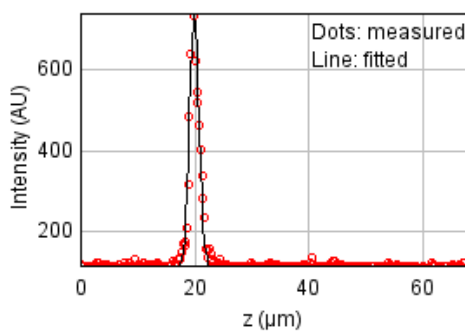 B = 127.876   (background)
 a = 0.570 px
 b = 0.029 px
 c = 0.587 px

xc = 5.550 px
yc = 6.308 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 88961.5348
Standard deviation: 17.02284
R^2: 0.96597
Parameters:
 a = 113.04774
 b = 739.50359
 c = 19.99127
 d = 0.83505

Bead 911

Date : Mon Oct 17 13:28:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
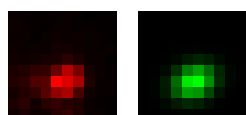Frame size : 10 pixels

Coordinates : -96.0 um (x), 15.0 um (y), 20.0 um (z)
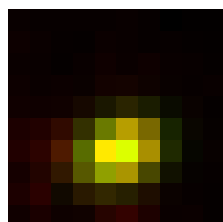Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	498 nm	514 nm	223 nm
max	664 nm	686 nm	223 nm
z	2.18 um	2.18 um	885 nm
Asymmetry	0.75		
Theta	21.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.926$

Parameters:
A = 436.125   (brightness)
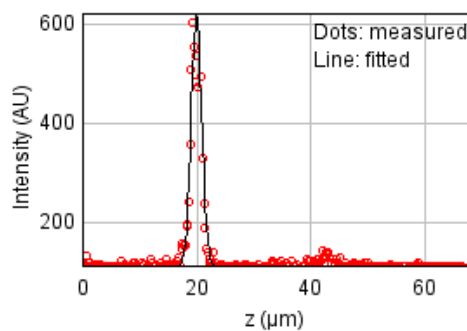B = 119.008   (background)
a = 0.336 px
b = 0.081 px
c = 0.510 px

xc = 4.629 px
yc = 6.030 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 143564.025
Standard deviation: 21.62488
R^2: 0.92661
Parameters:
a = 113.97809
b = 619.77209
c = 20.03689
d = 0.92414

Bead 912 (Rejected)

Date : Mon Oct 17 13:28:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -81.2 um (x), -11.3 um (y), 20.2 um (z)
Corresponding bead : Not found
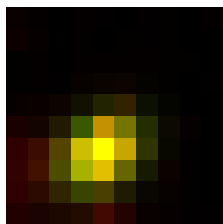Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	516 nm	534 nm	223 nm
max	683 nm	706 nm	223 nm
z	4.67 um	4.68 um	885 nm
Asymmetry	0.757		
Theta	36.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
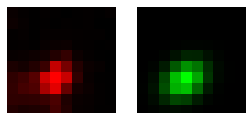
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.925$

Parameters:
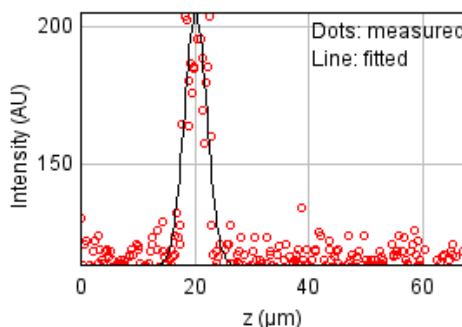 A = 612.668   (brightness)
 B = 125.309   (background)
 a = 0.364 px
 b = 0.103 px
 c = 0.427 px

xc = 3.850 px
yc = 6.202 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29038.3228
Standard deviation: 9.72560
R^2: 0.80839
Parameters:
 a = 112.73133
 b = 205.26795
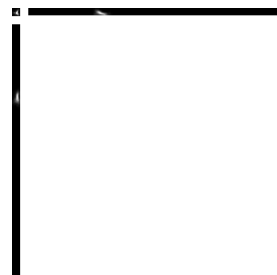 c = 20.22913
 d = 1.98110

Bead 913

Date : Mon Oct 17 13:28:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

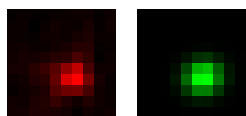Coordinates : -105 um (x), -68.6 um (y), 19.6 um (z)
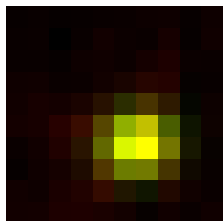Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	508 nm	525 nm	223 nm
max	576 nm	596 nm	223 nm
z	1.95 um	1.96 um	885 nm
Asymmetry	0.881		
Theta	14.1°		

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 = 0.943

Parameters:
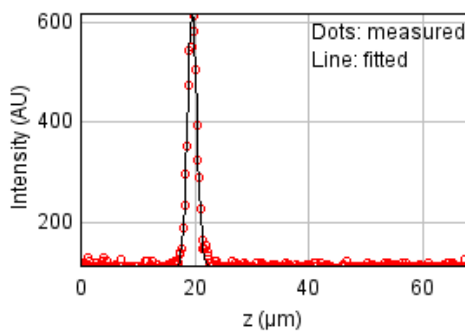A = 509.705 (brightness)
B = 127.599 (background)
a = 0.411 px
b = 0.028 px
c = 0.514 px

xc = 5.557 px
yc = 5.802 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23462.4925
Standard deviation: 8.74214
R^2: 0.98588
Parameters:
a = 112.10454
b = 618.04787
c = 19.63569
d = 0.83021

Bead 914

Date : Mon Oct 17 13:28:41 PDT 2022
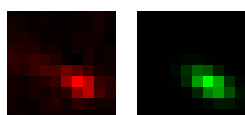Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -151 um (x), 84.9 um (y), 19.6 um (z)
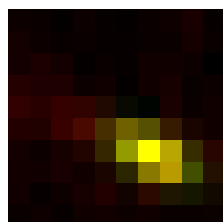Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	347 nm	359 nm	223 nm
max	682 nm	705 nm	223 nm
z	2.0 um	2.0 um	885 nm
Asymmetry	0.509		
Theta	-26.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.903$

Parameters:
 A = 331.161   (brightness)
 B = 125.933   (background)
 a = 0.458 px
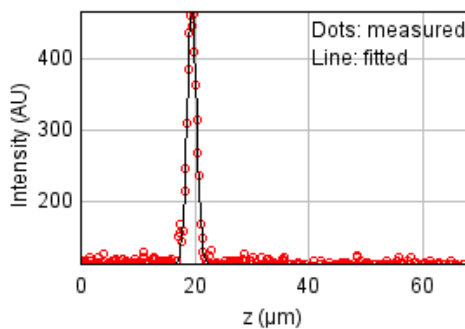 b = -0.334 px
 c = 0.945 px

xc = 6.158 px
yc = 6.163 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16774.9708
Standard deviation: 7.39200
R^2: 0.97993
Parameters:
 a = 110.94302
 b = 465.18094
 c = 19.57832
 d = 0.84774

Bead 915

Date : Mon Oct 17 13:28:41 PDT 2022
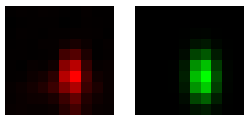Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -25.6 um (x), 69.5 um (y), 20.3 um (z)
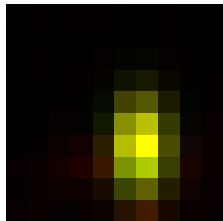Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	437 nm	223 nm
max	722 nm	747 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.585		
Theta	-89.3°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.969$

   Parameters:
   A = 924.829   (brightness)
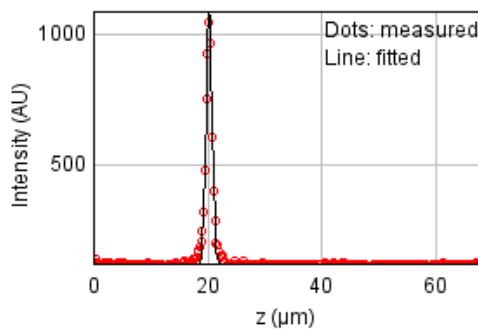   B = 125.016   (background)
   a = 0.753 px
   b = -0.006 px
   c = 0.257 px

   xc = 5.706 px
   yc = 6.040 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51996.4130
Standard deviation: 13.01420
R^2: 0.98750
Parameters:
 a = 114.81252
 b = 1098.06370
 c = 20.31867
 d = 0.54296

Bead 916

Date : Mon Oct 17 13:28:41 PDT 2022
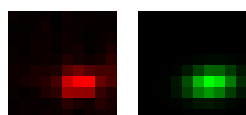Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 112 um (x), 49.7 um (y), 19.6 um (z)
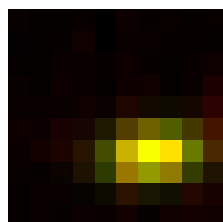Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	754 nm	779 nm	223 nm
z	1.8 um	1.8 um	885 nm
Asymmetry	0.564		
Theta	6.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 386.235   (brightness)
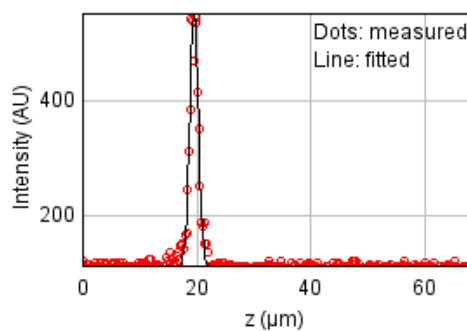 B = 117.064   (background)
 a = 0.242 px
 b = 0.053 px
 c = 0.735 px

xc = 6.203 px
yc = 6.143 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 35472.6064
Standard deviation: 10.74923
R^2: 0.96988
Parameters:
 a = 112.07008
 b = 552.02477
 c = 19.61585
 d = 0.76294

Bead 917

Date : Mon Oct 17 13:28:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
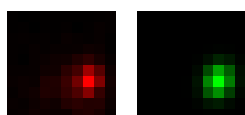Frame size : 10 pixels

Coordinates : -76.3 um (x), 26.0 um (y), 20.0 um (z)
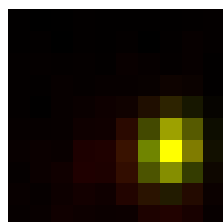Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	517 nm	534 nm	223 nm
z	2.27 um	2.28 um	885 nm
Asymmetry	0.84		
Theta	69.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.936$

Parameters:
A = 658.291   (brightness)
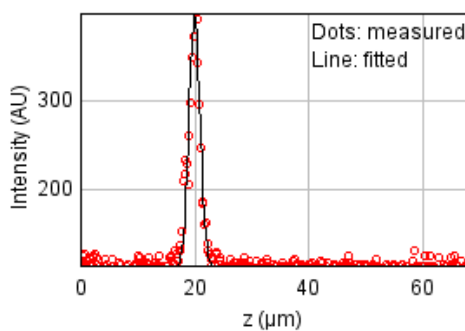B = 135.468   (background)
a = 0.687 px
b = 0.069 px
c = 0.528 px

xc = 6.981 px
yc = 5.941 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38057.5208
Standard deviation: 11.13400
R^2: 0.94013
Parameters:
 a = 113.39712
 b = 397.95543
 c = 20.04323
 d = 0.96468

Bead 918 (Rejected)

Date : Mon Oct 17 13:28:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -81.2 um (x), -11.3 um (y), 20.2 um (z)
Corresponding bead : Not found
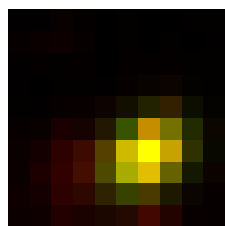Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	507 nm	524 nm	223 nm
max	668 nm	691 nm	223 nm
z	4.67 um	4.68 um	885 nm
Asymmetry	0.758		
Theta	36.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
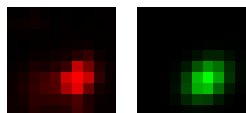
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.925$

Parameters:
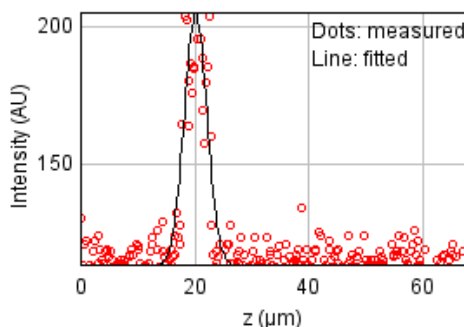 A = 613.923 (brightness)
 B = 130.800 (background)
 a = 0.380 px
 b = 0.107 px
 c = 0.442 px

xc = 5.857 px
yc = 6.199 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29038.3228
Standard deviation: 9.72560
R^2: 0.80839
Parameters:
 a = 112.73133
 b = 205.26795
 c = 20.22913
 d = 1.98110

Bead 919 (Rejected)

Date : Mon Oct 17 13:28:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -65.5 um (x), -24.1 um (y), 16.6 um (z)
Corresponding bead : Not found
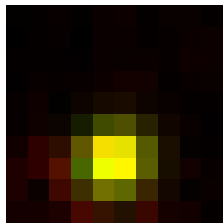Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	521 nm	539 nm	223 nm
max	544 nm	563 nm	223 nm
z	4.07 um	4.09 um	885 nm
Asymmetry	0.958		
Theta	36.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
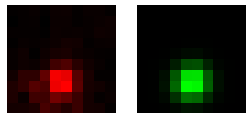
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.932$

Parameters:
A = 474.181   (brightness)
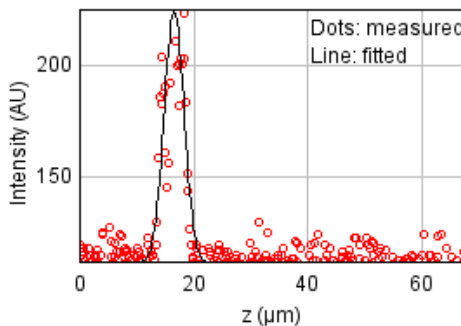B = 125.131   (background)
a = 0.468 px
b = 0.020 px
c = 0.479 px
xc = 4.481 px
yc = 6.620 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30683.8855
Standard deviation: 9.99738
R^2: 0.83913
Parameters:
a = 112.14296
b = 224.54375
c = 16.63057
d = 1.72876

Bead 920

Date : Mon Oct 17 13:28:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
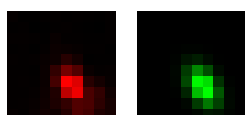Frame size : 10 pixels

Coordinates : 25.6 um (x), -28.7 um (y), 20.3 um (z)
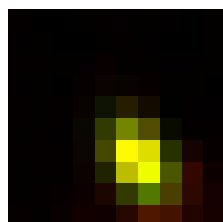Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	641 nm	663 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.633		
Theta	-59.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1071.690   (brightness)
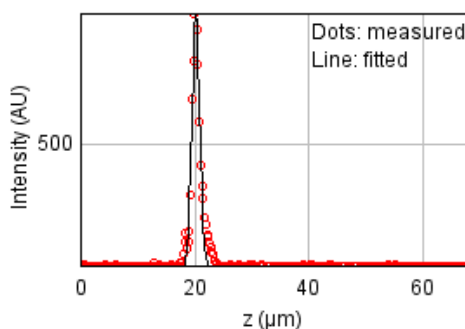 B = 126.883   (background)
 a = 0.689 px
 b = -0.212 px
 c = 0.451 px

xc = 5.551 px
yc = 6.451 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 112572.837
Standard deviation: 19.14907
R^2: 0.96774
Parameters:
 a = 115.21503
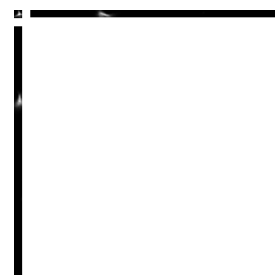 b = 913.83285
 c = 20.27633
 d = 0.68146

Bead 921

Date : Mon Oct 17 13:28:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

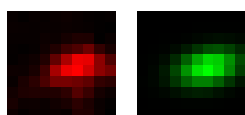Coordinates : 26.8 um (x), -94.8 um (y), 19.8 um (z)
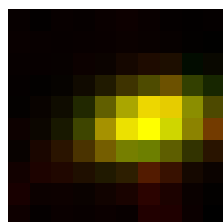Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	547 nm	565 nm	223 nm
max	979 nm	1.01 um	223 nm
z	2.36 um	2.37 um	885 nm
Asymmetry	0.558		
Theta	12.1°		

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
   $R^2 = 0.955$

Parameters:
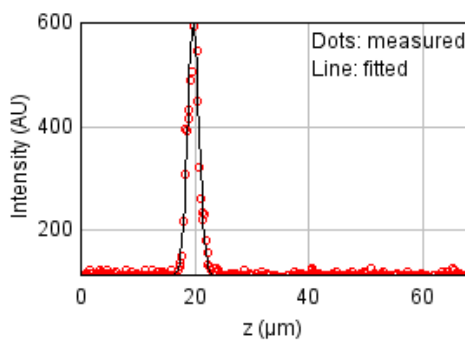 A = 501.199   (brightness)
 B = 125.216   (background)
 a = 0.154 px
 b = 0.063 px
 c = 0.436 px

xc = 6.041 px
yc = 4.695 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 70579.4038
Standard deviation: 15.16246
R^2: 0.96262
Parameters:
 a = 113.64305
 b = 601.08071
 c = 19.83148
 d = 1.00202

Bead 922

Date : Mon Oct 17 13:28:42 PDT 2022
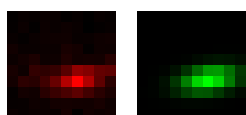Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 141 um (x), 72.6 um (y), 19.8 um (z)
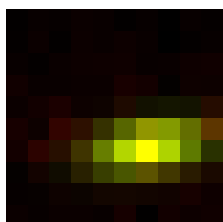Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	907 nm	938 nm	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.44		
Theta	9.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
    $R^2 = 0.946$

Parameters:
 A = 245.273   (brightness)
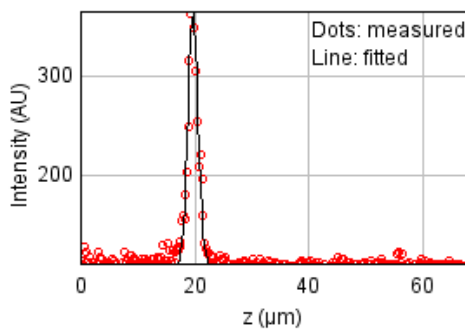 B = 118.071   (background)
 a = 0.180 px
 b = 0.105 px
 c = 0.827 px

xc = 6.089 px
yc = 5.809 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20286.3326
Standard deviation: 8.12892
R^2: 0.95608
Parameters:
 a = 110.50665
 b = 365.37954
 c = 19.76984
 d = 0.88464

Bead 923 (Rejected)

Date : Mon Oct 17 13:28:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

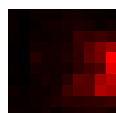Coordinates : -68.0 um (x), 59.6 um (y), 18.5 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

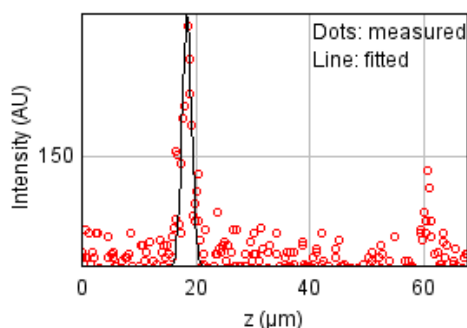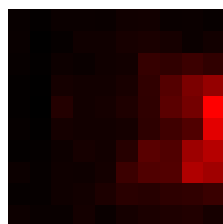| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 19999.0328
Standard deviation: 8.07115
R^2: 0.68901
Parameters:
 a = 113.88346
 b = 197.61386
 c = 18.52368
 d = 0.81959

Bead 924

Date : Mon Oct 17 13:28:42 PDT 2022
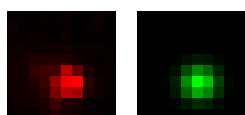Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -121 um (x), 45.7 um (y), 20.3 um (z)
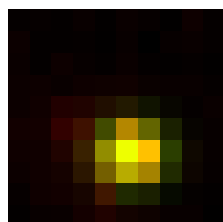Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	510 nm	527 nm	223 nm
max	556 nm	575 nm	223 nm
z	1.77 um	1.78 um	885 nm
Asymmetry	0.916		
Theta	-1.2°		

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:
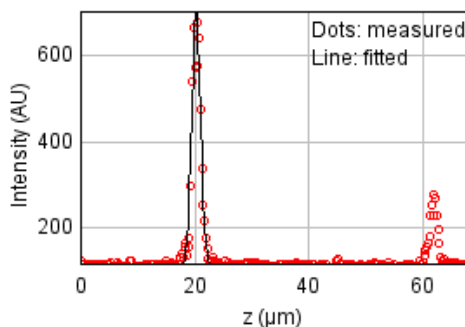 A = 533.415   (brightness)
 B = 121.576   (background)
 a = 0.434 px
 b = -0.002 px
 c = 0.517 px

xc = 5.181 px
yc = 6.120 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 260512.270
Standard deviation: 29.13030
R^2: 0.88499
Parameters:
 a = 117.65431
 b = 704.00751
 c = 20.33167
 d = 0.75343

Bead 925

Date : Mon Oct 17 13:28:42 PDT 2022
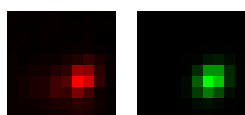Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -78.9 um (x), 3.99 um (y), 20.8 um (z)
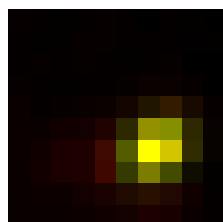Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	510 nm	527 nm	223 nm
z	1.58 um	1.59 um	885 nm
Asymmetry	0.822		
Theta	43.3°		

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 = 0.935

Parameters:
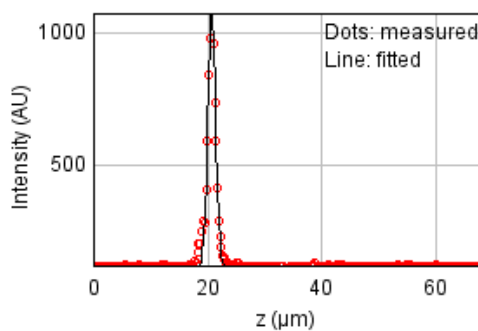 A = 997.930   (brightness)
 B = 138.389   (background)
 a = 0.633 px
 b = 0.124 px
 c = 0.648 px

xc = 6.323 px
yc = 5.878 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 66997.2304
Standard deviation: 14.77268
R^2: 0.98649
Parameters:
 a = 114.65088
 b = 1082.09298
 c = 20.76681
 d = 0.67220

Bead 926 (Rejected)

Date : Mon Oct 17 13:28:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 15.4 um (x), -11.0 um (y), 40.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

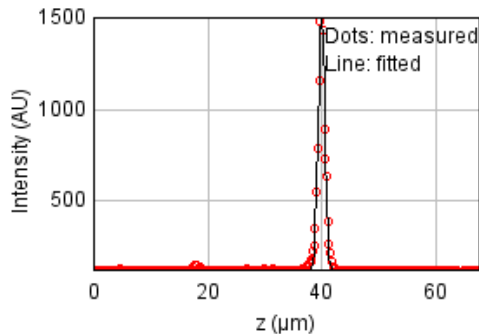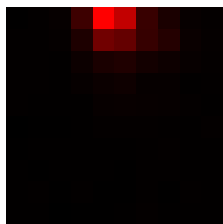| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 132283.883
Standard deviation: 20.75794
R^2: 0.98489
Parameters:
 a = 114.92959
 b = 1504.95726
 c = 40.01209
 d = 0.57077

Bead 927

Date : Mon Oct 17 13:28:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
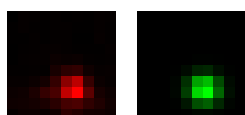Frame size : 10 pixels

Coordinates : -37.5 um (x), -22.2 um (y), 20.9 um (z)
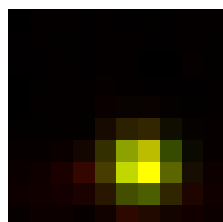Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	454 nm	469 nm	223 nm
max	497 nm	514 nm	223 nm
z	1.77 um	1.78 um	885 nm
Asymmetry	0.913		
Theta	-5.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.953$

Parameters:
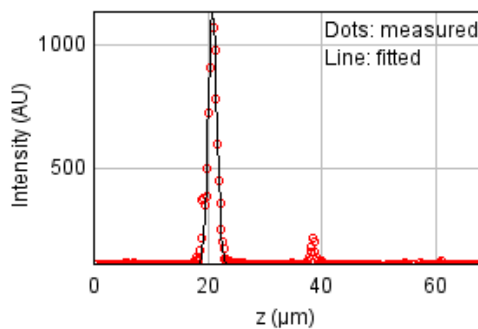A = 1154.447   (brightness)
B = 132.872   (background)
a = 0.544 px
b = -0.010 px
c = 0.650 px

xc = 5.650 px
yc = 6.730 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 171942.779
Standard deviation: 23.66589
R^2: 0.97222
Parameters:
a = 116.89347
b = 1134.06752
c = 20.91731
d = 0.75136

Bead 928

Date : Mon Oct 17 13:28:43 PDT 2022
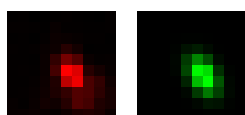Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 25.6 um (x), -28.7 um (y), 20.3 um (z)
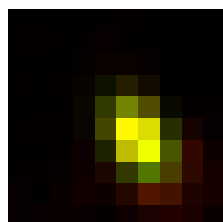Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	636 nm	658 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.631		
Theta	-59.9°		

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 = 1070.323   (brightness)
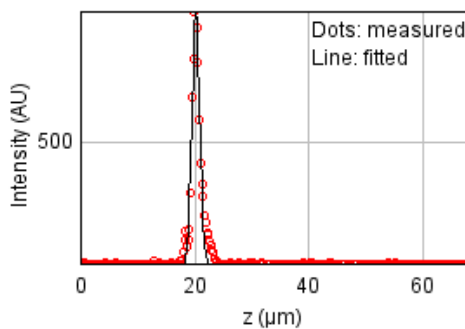 B = 132.872   (background)
  a = 0.706 px
  b = -0.217 px
  c = 0.457 px

xc = 5.550 px
yc = 5.452 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 112572.837
Standard deviation: 19.14907
R^2: 0.96774
Parameters:
 a = 115.21503
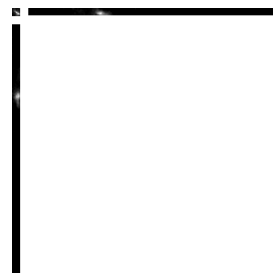 b = 913.83285
 c = 20.27633
 d = 0.68146

Bead 929

Date : Mon Oct 17 13:28:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

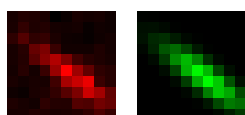Coordinates : 139 um (x), -51.6 um (y), 19.5 um (z)
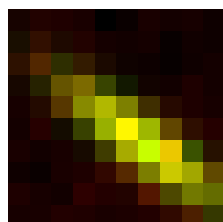Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	1.59 um	1.64 um	223 nm
z	2.45 um	2.46 um	885 nm
Asymmetry	0.261		
Theta	-37.4°		

XY profile & fitting parameters :

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

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

Parameters:
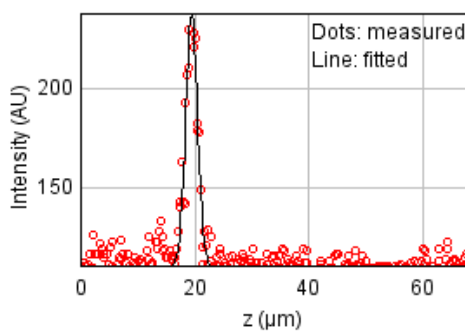A = 153.268   (brightness)
B = 116.567   (background)
a = 0.322 px
b = -0.352 px
c = 0.514 px

xc = 5.717 px
yc = 5.626 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14565.3261
Standard deviation: 6.88796
R^2: 0.89796
Parameters:
a = 111.01908
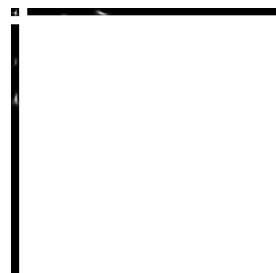b = 238.21469
c = 19.52352
d = 1.03994

Bead 930

Date : Mon Oct 17 13:28:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -96.6 um (x), -67.7 um (y), 20.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	539 nm	557 nm	223 nm
max	631 nm	653 nm	223 nm
z	1.62 um	1.62 um	885 nm
Asymmetry	0.854		
Theta	-15.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
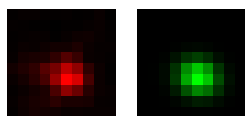
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.960$
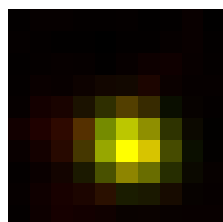
Parameters:
 A = 534.940   (brightness)
 B = 124.263   (background)
 a = 0.346 px
 b = -0.033 px
 c = 0.452 px

xc = 5.094 px
yc = 5.784 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39569.4064
Standard deviation: 11.35300
R^2: 0.97910
Parameters:
 a = 114.24881
 b = 703.99114
 c = 20.03040
 d = 0.68613

Bead 931

Date : Mon Oct 17 13:28:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -91.6 um (x), -79.2 um (y), 20.4 um (z)
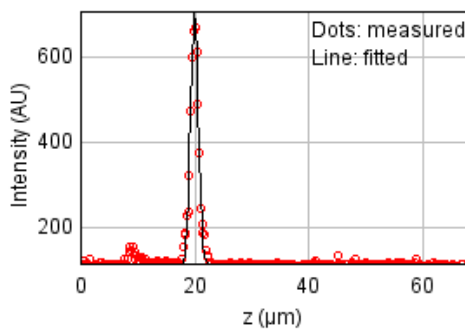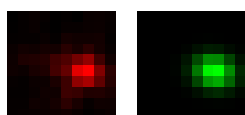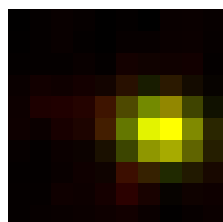Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	505 nm	522 nm	223 nm
max	643 nm	665 nm	223 nm
z	1.44 um	1.44 um	885 nm
Asymmetry	0.785		
Theta	-10.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 618.627   (brightness)
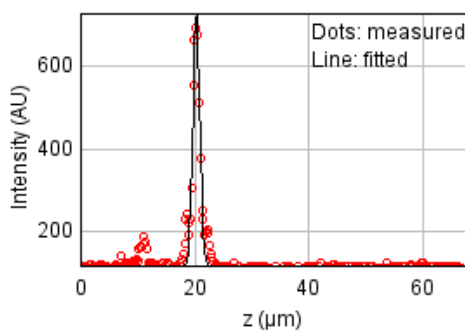 B = 131.521   (background)
 a = 0.332 px
 b = -0.037 px
 c = 0.519 px

xc = 6.583 px
yc = 5.084 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 109814.580
Standard deviation: 18.91302
R^2: 0.94299
Parameters:
 a = 117.54157
 b = 735.21488
 c = 20.36487
 d = 0.61046

Bead 932 (Rejected)

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -8.22 um (x), 83.0 um (y), 19.2 um (z)
Corresponding bead : Not found
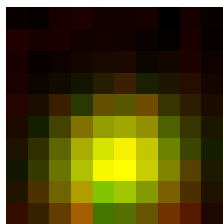Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	921 nm	952 nm	223 nm
max	1.09 um	1.13 um	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.843		
Theta	19.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
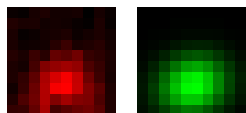
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.920$

Parameters:
 A = 154.573 (brightness)
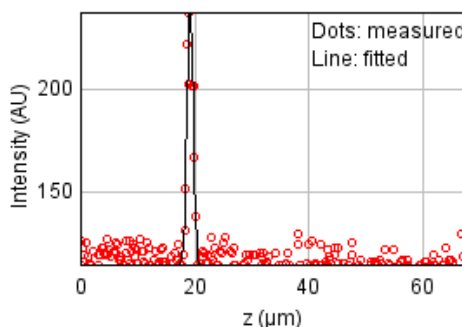 B = 115.014 (background)
 a = 0.118 px
 b = 0.014 px
 c = 0.153 px

xc = 4.625 px
yc = 6.704 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 13949.4724
Standard deviation: 6.74077
R^2: 0.82801
Parameters:
 a = 114.72205
 b = 239.67003
 c = 19.24498
 d = 0.54973

Bead 933

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
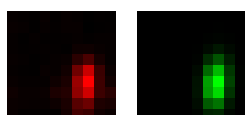Frame size : 10 pixels

Coordinates : -8.2 um (x), 82.2 um (y), 20.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	756 nm	782 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.509		
Theta	85.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.975$
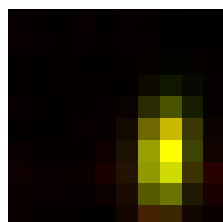
Parameters:
 A = 936.935 (brightness)
 B = 121.073 (background)
 a = 0.902 px
 b = 0.057 px
 c = 0.240 px

xc = 6.746 px
yc = 6.229 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49170.3580
Standard deviation: 12.65559
R^2: 0.96453
Parameters:
 a = 114.21588
 b = 661.48052
 c = 20.59356
 d = 0.57118

Bead 934 (Rejected)

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -98.6 um (x), 80.3 um (y), 20.5 um (z)
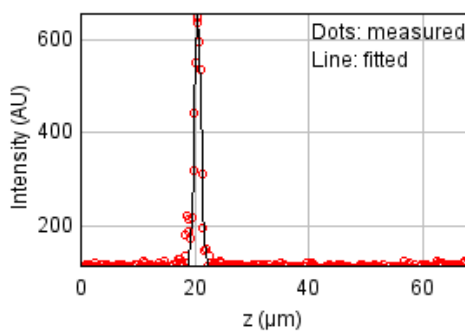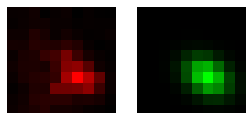Corresponding bead : Not found
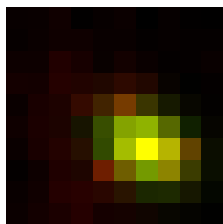Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	525 nm	542 nm	223 nm
max	715 nm	739 nm	223 nm
z	1.75 um	1.75 um	885 nm
Asymmetry	0.734		
Theta	-30.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.862$

Parameters:
 A = 273.255   (brightness)
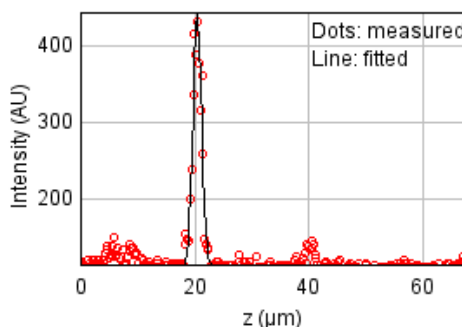 B = 123.996   (background)
 a = 0.322 px
 b = -0.099 px
 c = 0.428 px

xc = 5.926 px
yc = 5.892 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 40244.4220
Standard deviation: 11.44942
R^2: 0.93922
Parameters:
 a = 114.28698
 b = 443.33649
 c = 20.52490
 d = 0.74167

Bead 935

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
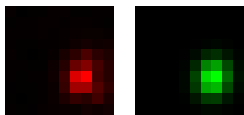Frame size : 10 pixels

Coordinates : 51.2 um (x), 51.7 um (y), 21.0 um (z)
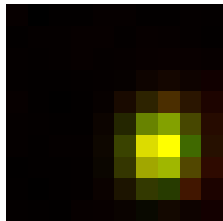Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	506 nm	523 nm	223 nm
max	586 nm	605 nm	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.864		
Theta	76.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.948$

Parameters:
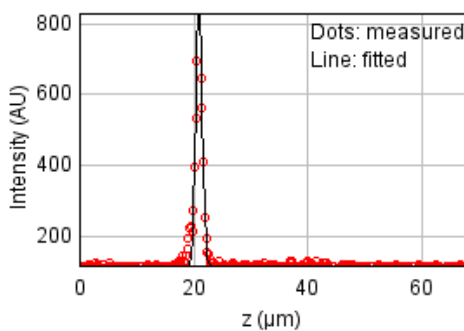 A = 777.893   (brightness)
 B = 123.675   (background)
 a = 0.517 px
 b = 0.030 px
 c = 0.398 px

xc = 6.639 px
yc = 6.105 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 60951.0910
Standard deviation: 14.09034
R^2: 0.97454
Parameters:
 a = 114.91656
 b = 839.02790
 c = 20.99792
 d = 0.56915

Bead 936 (Rejected)

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

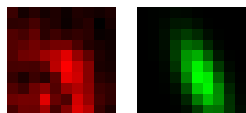Coordinates : -65.5 um (x), 37.4 um (y), 19.2 um (z)
Corresponding bead : Not found
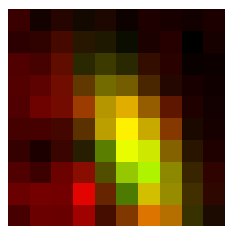Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	548 nm	566 nm	223 nm
max	1.3 um	1.34 um	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.421		
Theta	-66.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.604$

Parameters:
A = 120.560   (brightness)
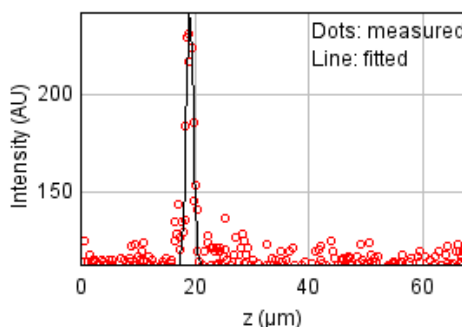B = 134.140   (background)
a = 0.387 px
b = -0.136 px
c = 0.140 px

xc = 5.425 px
yc = 6.096 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15471.4020
Standard deviation: 7.09898
R^2: 0.83830
Parameters:
a = 112.82422
b = 241.49995
c = 19.18532
d = 0.62147

Bead 937

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
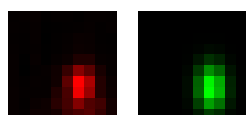Frame size : 10 pixels

Coordinates : -4.57 um (x), 26.7 um (y), 20.6 um (z)
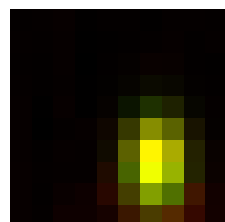Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	723 nm	747 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.631		
Theta	-89.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
A = 1044.530   (brightness)
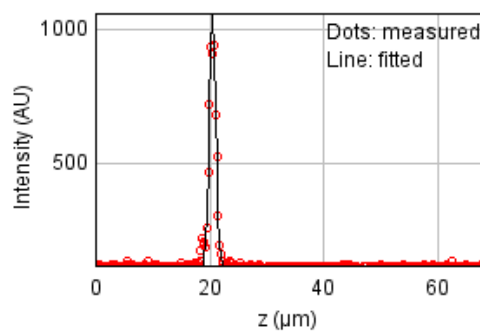B = 128.994   (background)
a = 0.644 px
b = -0.003 px
c = 0.257 px

xc = 6.223 px
yc = 6.582 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 79624.8512
Standard deviation: 16.10479
R^2: 0.98066
Parameters:
 a = 115.33126
 b = 1076.02894
 c = 20.56454
 d = 0.55947

Bead 938

Date : Mon Oct 17 13:28:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
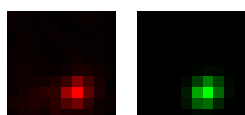Frame size : 10 pixels

Coordinates : -79.9 um (x), 26.0 um (y), 21.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	472 nm	488 nm	223 nm
z	1.77 um	1.78 um	885 nm
Asymmetry	0.832		
Theta	31.8°		

XY profile & fitting parameters :

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

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

Parameters:
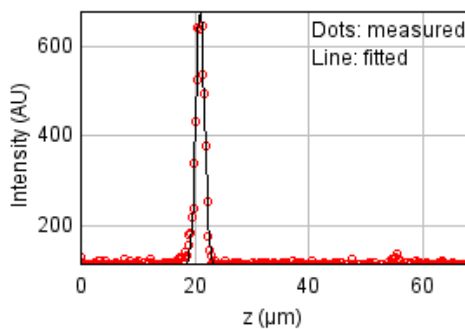 A = 552.375 (brightness)
 B = 124.570 (background)
 a = 0.676 px
 b = 0.120 px
 c = 0.795 px

xc = 5.823 px
yc = 6.993 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23874.3778
Standard deviation: 8.81854
R^2: 0.98740
Parameters:
 a = 113.41088
 b = 680.27551
 c = 21.03192
 d = 0.75208

Bead 939

Date : Mon Oct 17 13:28:45 PDT 2022
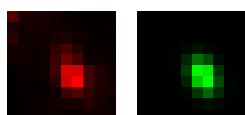Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 57.5 um (x), -24.7 um (y), 20.7 um (z)
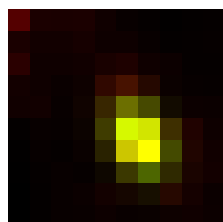Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	414 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.715		
Theta	-62.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.924$

Parameters:
 A = 1113.554   (brightness)
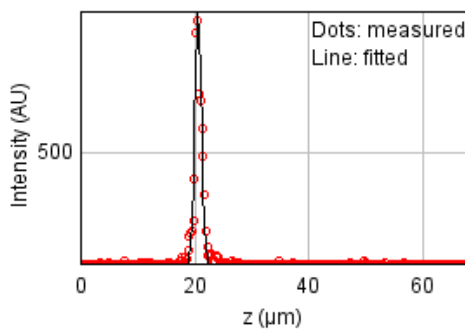 B = 163.897   (background)
 a = 0.750 px
 b = -0.168 px
 c = 0.515 px

xc = 5.548 px
yc = 5.460 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 251144.753
Standard deviation: 28.60177
R^2: 0.93317
Parameters:
 a = 114.76731
 b = 991.30639
 c = 20.66423
 d = 0.58442

Bead 940

Date : Mon Oct 17 13:28:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
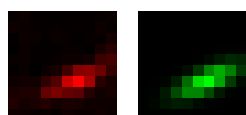Frame size : 10 pixels

Coordinates : -162 um (x), -26.2 um (y), 19.8 um (z)
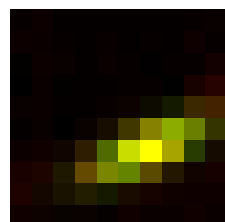Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	347 nm	358 nm	223 nm
max	1.01 um	1.04 um	223 nm
z	1.81 um	1.82 um	885 nm
Asymmetry	0.345		
Theta	23.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.953$

Parameters:
A = 319.620   (brightness)
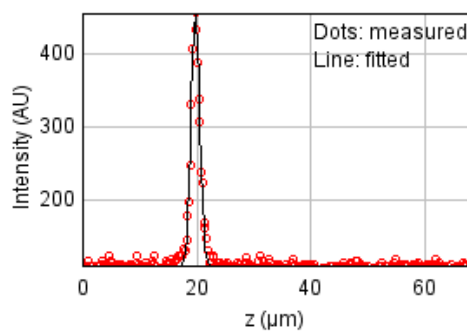B = 115.070   (background)
a = 0.291 px
b = 0.362 px
c = 0.958 px

xc = 5.846 px
yc = 5.912 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17543.6244
Standard deviation: 7.55945
R^2: 0.97587
Parameters:
a = 110.57332
b = 455.87674
c = 19.84877
d = 0.76949

Bead 941

Date : Mon Oct 17 13:28:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
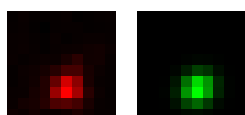Frame size : 10 pixels

Coordinates : -125 um (x), -42.8 um (y), 20.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	533 nm	551 nm	223 nm
z	1.57 um	1.57 um	885 nm
Asymmetry	0.889		
Theta	39.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.976$

Parameters:
A = 651.554   (brightness)
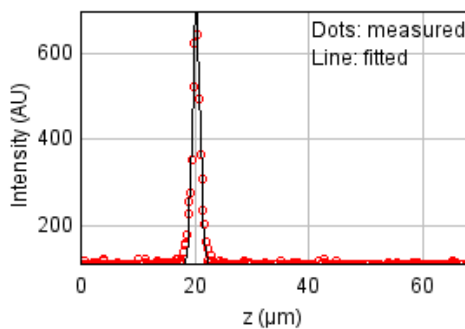B = 121.453   (background)
a = 0.524 px
b = 0.062 px
c = 0.547 px

xc = 5.062 px
yc = 6.645 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36301.8630
Standard deviation: 10.87415
R^2: 0.98032
Parameters:
 a = 111.99452
 b = 703.06614
 c = 20.34744
 d = 0.66563

Bead 942 (Rejected)

Date : Mon Oct 17 13:28:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 60.1 um (x), -74.6 um (y), 63.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

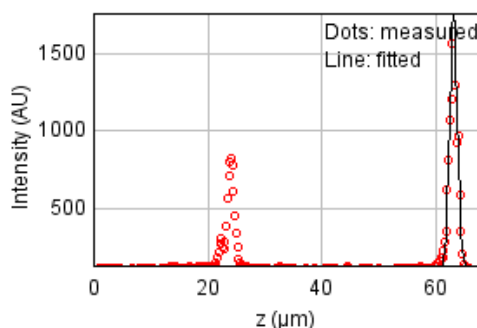| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.56 um	1.57 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 2885746.35
Standard deviation: 96.95270
R^2: 0.82366
Parameters:
 a = 135.64850
 b = 1752.15447
 c = 63.15310
 d = 0.66328

Bead 943 (Rejected)

Date : Mon Oct 17 13:28:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

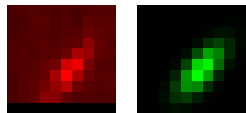Coordinates : -150 um (x), -96.5 um (y), 19.7 um (z)
Corresponding bead : Not found
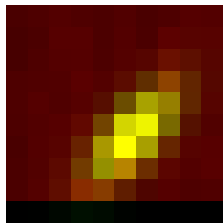Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	947 nm	979 nm	223 nm
z	2.18 um	2.19 um	885 nm
Asymmetry	0.443		
Theta	48.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.651$

Parameters:
 A = 259.290   (brightness)
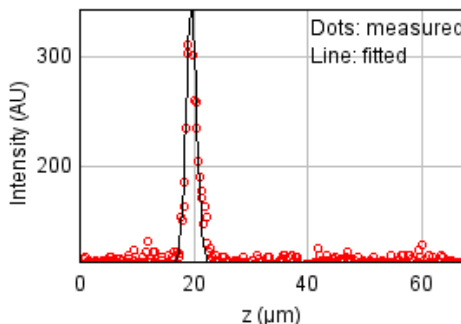 B = 101.021   (background)
 a = 0.494 px
 b = 0.305 px
 c = 0.420 px

xc = 5.364 px
yc = 5.453 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20571.4672
Standard deviation: 8.18584
R^2: 0.94965
Parameters:
 a = 111.13285
 b = 344.72576
 c = 19.66997
 d = 0.92770

Bead 944 (Rejected)

Date : Mon Oct 17 13:28:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 126 um (x), 89.1 um (y), 19.2 um (z)
Corresponding bead : Not found
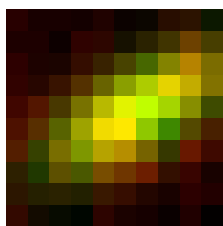Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	682 nm	705 nm	223 nm
max	1.6 um	1.65 um	223 nm
z	1.1 um	1.11 um	885 nm
Asymmetry	0.427		
Theta	30.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
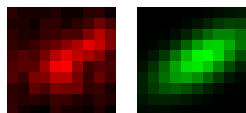
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.843$

Parameters:
 A = 119.521   (brightness)
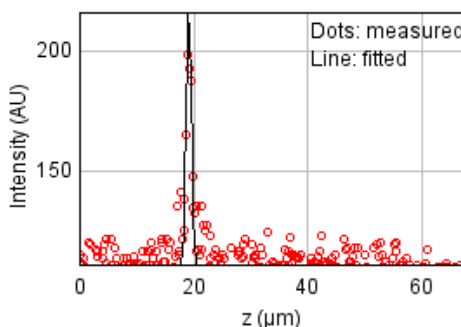 B = 119.064   (background)
 a = 0.112 px
 b = 0.102 px
 c = 0.230 px

xc = 5.543 px
yc = 4.175 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15144.6483
Standard deviation: 7.02361
R^2: 0.72950
Parameters:
 a = 111.05201
 b = 216.41219
 c = 19.18467
 d = 0.46814

Bead 945

Date : Mon Oct 17 13:28:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
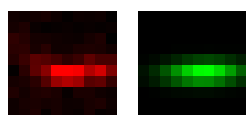Frame size : 10 pixels

Coordinates : 163 um (x), 67.1 um (y), 19.7 um (z)
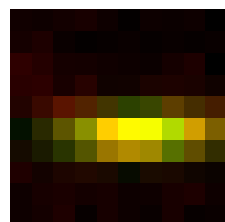Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	374 nm	387 nm	223 nm
max	1.25 um	1.3 um	223 nm
z	2.51 um	2.52 um	885 nm
Asymmetry	0.298		
Theta	1.2°		

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
   $R^2 = 0.913$

Parameters:
 A = 175.648   (brightness)
 B = 113.670   (background)
 a = 0.086 px
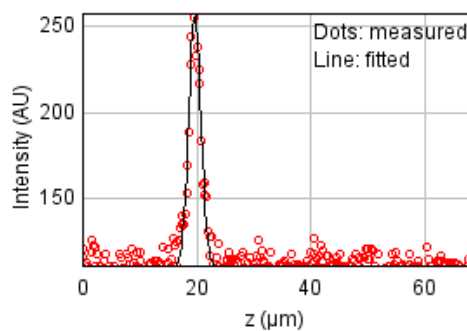 b = 0.018 px
 c = 0.959 px

xc = 5.566 px
yc = 5.182 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 14487.4794
Standard deviation: 6.86953
R^2: 0.92352
Parameters:
 a = 110.55510
 b = 257.41847
 c = 19.74538
 d = 1.06616

Bead 946

Date : Mon Oct 17 13:28:46 PDT 2022
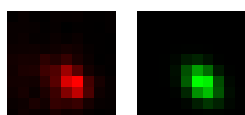Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -106 um (x), 35.8 um (y), 20.5 um (z)
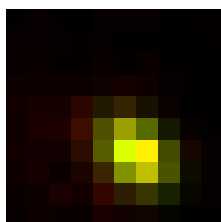Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	607 nm	628 nm	223 nm
z	1.72 um	1.72 um	885 nm
Asymmetry	0.722		
Theta	-47.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.939$

Parameters:
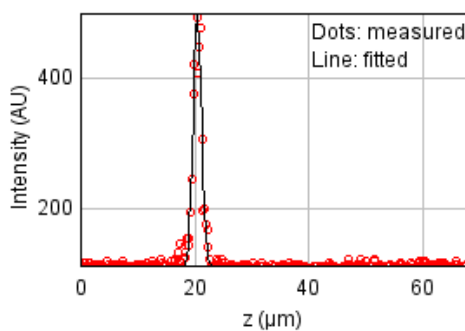 A = 460.886   (brightness)
 B = 122.782   (background)
 a = 0.544 px
 b = -0.167 px
 c = 0.519 px

xc = 5.471 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: 36700.7395
Standard deviation: 10.93373
R^2: 0.95854
Parameters:
 a = 113.17277
 b = 500.63691
 c = 20.52850
 d = 0.72934

Bead 947

Date : Mon Oct 17 13:28:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
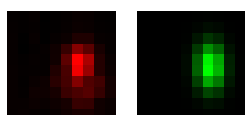Frame size : 10 pixels

Coordinates : -4.57 um (x), 26.7 um (y), 20.6 um (z)
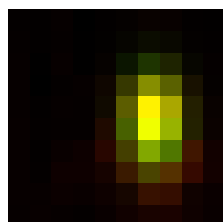Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	465 nm	223 nm
max	751 nm	776 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.599		
Theta	-89.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.938$

Parameters:
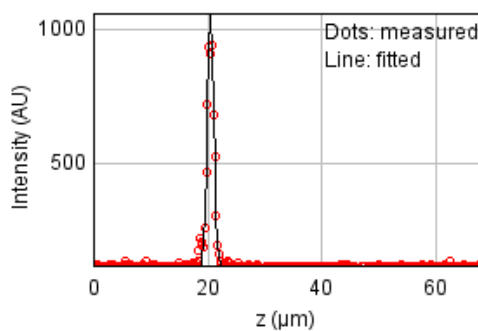 A = 1018.378   (brightness)
 B = 138.305   (background)
 a = 0.663 px
 b = -0.007 px
 c = 0.238 px

xc = 6.225 px
yc = 4.622 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 79624.8512
Standard deviation: 16.10479
R^2: 0.98066
Parameters:
 a = 115.33126
 b = 1076.02894
 c = 20.56454
 d = 0.55947

Bead 948

Date : Mon Oct 17 13:28:46 PDT 2022
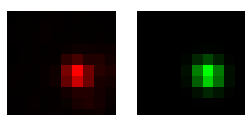Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 82.3 um (x), 14.7 um (y), 21.1 um (z)
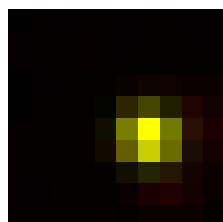Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	440 nm	455 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.94		
Theta	-35.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.971$

Parameters:
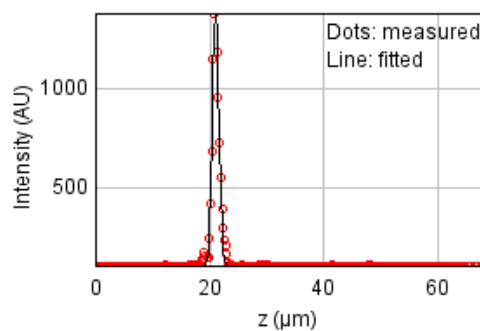A = 1370.050   (brightness)
B = 129.025   (background)
a = 0.723 px
b = -0.043 px
c = 0.753 px

xc = 6.011 px
yc = 5.361 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 122307.868
Standard deviation: 19.95988
R^2: 0.98295
Parameters:
a = 115.04930
b = 1368.65642
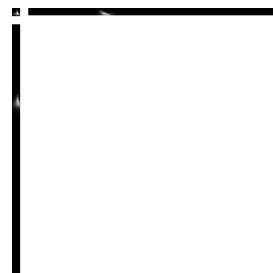c = 21.11720
d = 0.57408

Bead 949

Date : Mon Oct 17 13:28:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

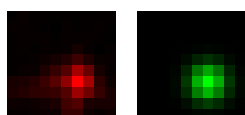Coordinates : -44.0 um (x), -86.3 um (y), 20.5 um (z)
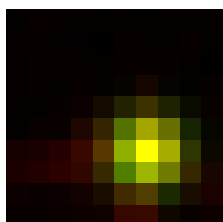Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	591 nm	611 nm	223 nm
max	593 nm	613 nm	223 nm
z	1.72 um	1.73 um	885 nm
Asymmetry	0.995		
Theta	26.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.907$

Parameters:
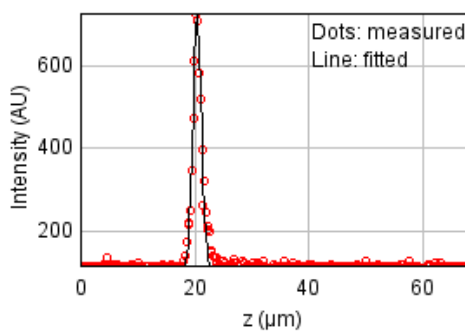A = 590.203   (brightness)
B = 130.553   (background)
a = 0.382 px
b = 0.001 px
c = 0.384 px

xc = 5.987 px
yc = 6.065 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 61436.9881
Standard deviation: 14.14639
R^2: 0.97184
Parameters:
a = 115.26822
b = 727.18995
c = 20.50026
d = 0.73068

Bead 950 (Rejected)

Date : Mon Oct 17 13:28:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 126 um (x), 89.1 um (y), 19.2 um (z)
Corresponding bead : Not found
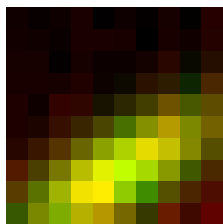Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	700 nm	723 nm	223 nm
max	1.87 um	1.93 um	223 nm
z	1.1 um	1.11 um	885 nm
Asymmetry	0.375		
Theta	30.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
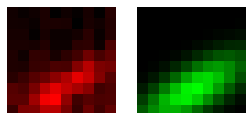
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.875$

Parameters:
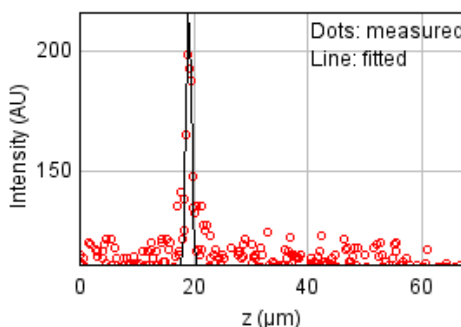 A = 119.626   (brightness)
 B = 114.523   (background)
 a = 0.099 px
 b = 0.103 px
 c = 0.213 px

xc = 4.568 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: 15144.6483
Standard deviation: 7.02361
R^2: 0.72950
Parameters:
 a = 111.05201
 b = 216.41219
 c = 19.18467
 d = 0.46814

Bead 951

Date : Mon Oct 17 13:28:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
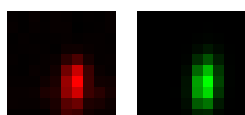Frame size : 10 pixels

Coordinates : -8.2 um (x), 82.2 um (y), 20.6 um (z)
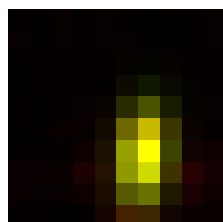Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	755 nm	781 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.509		
Theta	85.1°		

XY profile & fitting parameters :

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

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

Parameters:
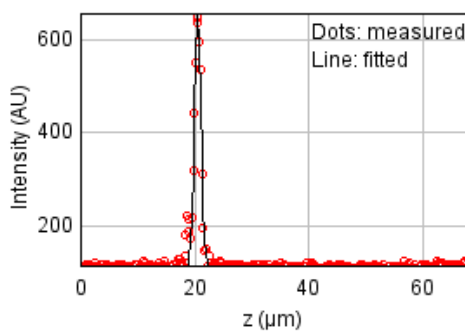 A = 936.954   (brightness)
 B = 121.489   (background)
 a = 0.904 px
 b = 0.057 px
 c = 0.240 px

xc = 5.746 px
yc = 6.229 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49170.3580
Standard deviation: 12.65559
R^2: 0.96453
Parameters:
 a = 114.21588
 b = 661.48052
 c = 20.59356
 d = 0.57118

Bead 952

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
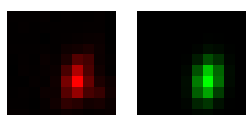Frame size : 10 pixels

Coordinates : 24.0 um (x), 73.7 um (y), 21.1 um (z)
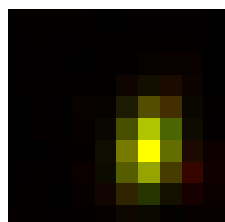Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	635 nm	656 nm	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.643		
Theta	79.6°		

XY profile & fitting parameters :

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

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

Parameters:
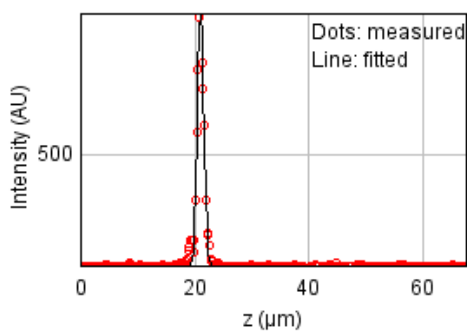 A = 841.828   (brightness)
 B = 123.317   (background)
 a = 0.791 px
 b = 0.084 px
 c = 0.348 px

xc = 5.979 px
yc = 5.871 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 60550.5247
Standard deviation: 14.04397
R^2: 0.98256
Parameters:
 a = 114.14867
 b = 988.69805
 c = 21.09991
 d = 0.57055

Bead 953 (Rejected)

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

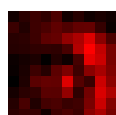Coordinates : -65.3 um (x), 37.4 um (y), 19.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

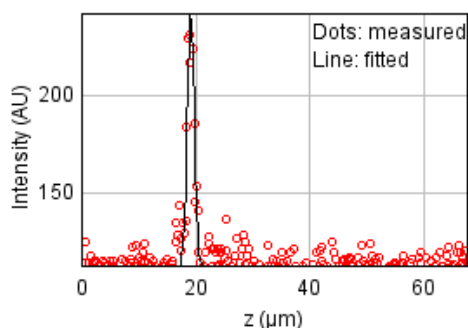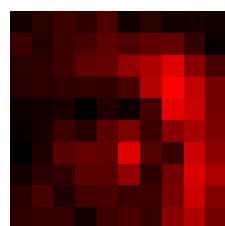| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 15471.4020
Standard deviation: 7.09898
R^2: 0.83830
Parameters:
 a = 112.82422
 b = 241.49995
 c = 19.18532
 d = 0.62147

Bead 954 (Rejected)

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -88.2 um (x), 32.8 um (y), 61.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

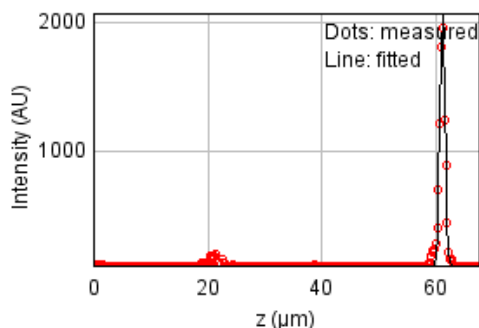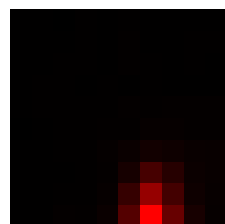| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.07 um	1.08 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 244303.132
Standard deviation: 28.20950
R^2: 0.98238
Parameters:
 a = 121.14765
 b = 2069.70767
 c = 61.19044
 d = 0.45608

Bead 955

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
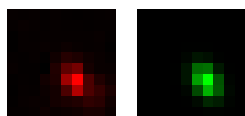Frame size : 10 pixels

Coordinates : 31.9 um (x), 5.91 um (y), 21.0 um (z)
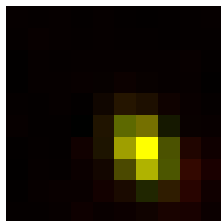Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	537 nm	555 nm	223 nm
z	1.74 um	1.75 um	885 nm
Asymmetry	0.707		
Theta	-58.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.961$

Parameters:
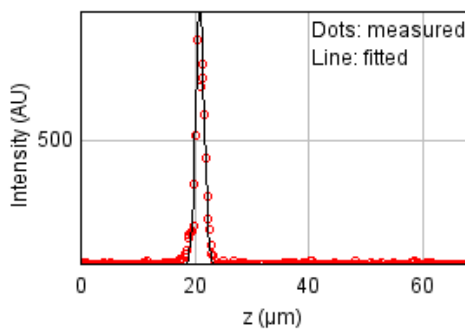A = 928.040   (brightness)
B = 129.868   (background)
a = 0.807 px
b = -0.206 px
c = 0.591 px

xc = 5.830 px
yc = 6.137 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 173107.742
Standard deviation: 23.74592
R^2: 0.95406
Parameters:
a = 114.30679
b = 906.96763
c = 20.98082
d = 0.73881

Bead 956

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
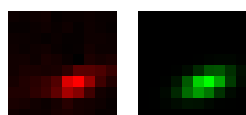Frame size : 10 pixels

Coordinates : -160 um (x), 3.26 um (y), 20.5 um (z)
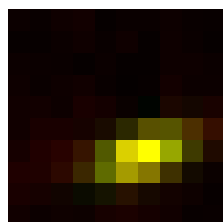Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	358 nm	371 nm	223 nm
max	749 nm	774 nm	223 nm
z	1.73 um	1.74 um	885 nm
Asymmetry	0.479		
Theta	18.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.955$

Parameters:
A = 428.331 (brightness)
B = 121.154 (background)
a = 0.316 px
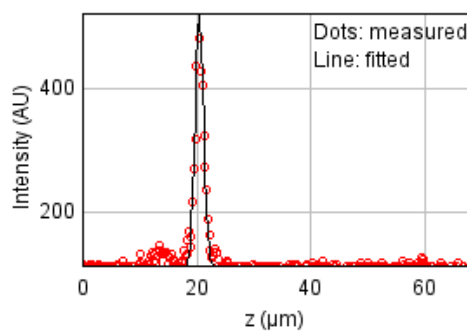b = 0.237 px
c = 0.967 px

xc = 5.695 px
yc = 6.177 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40096.8020
Standard deviation: 11.42841
R^2: 0.95958
Parameters:
a = 113.79566
b = 522.32502
c = 20.53082
d = 0.73623

Bead 957

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
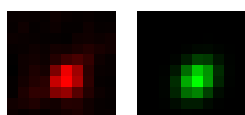Frame size : 10 pixels

Coordinates : -133 um (x), -32.7 um (y), 20.7 um (z)
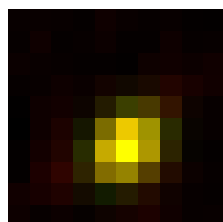Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	486 nm	503 nm	223 nm
max	616 nm	637 nm	223 nm
z	1.78 um	1.79 um	885 nm
Asymmetry	0.789		
Theta	46.5°		

XY profile & fitting parameters :

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

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

Parameters:
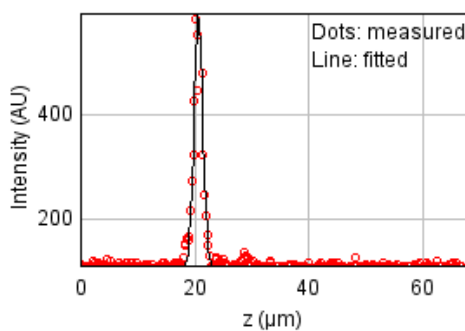 A = 479.298   (brightness)
 B = 120.643   (background)
 a = 0.466 px
 b = 0.107 px
 c = 0.455 px

xc = 4.992 px
yc = 5.766 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 53014.0802
Standard deviation: 13.14094
R^2: 0.96198
Parameters:
 a = 112.26760
 b = 591.26684
 c = 20.71491
 d = 0.75557

Bead 958

Date : Mon Oct 17 13:28:47 PDT 2022
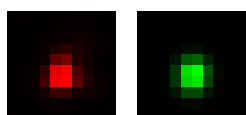Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -35.3 um (x), -35.7 um (y), 63.8 um (z)
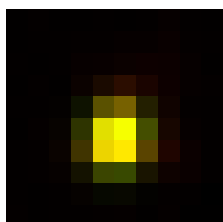Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	465 nm	223 nm
max	504 nm	521 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.893		
Theta	80.0°		

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 = 0.979

Parameters:
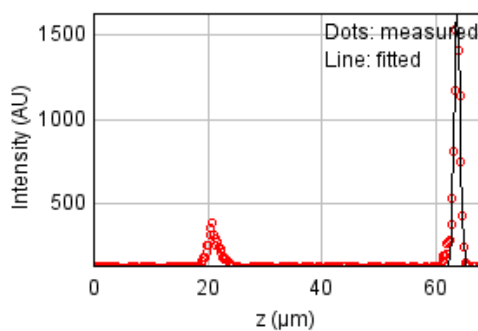A = 1997.711   (brightness)
B = 132.006   (background)
a = 0.659 px
b = 0.023 px
c = 0.533 px

xc = 4.589 px
yc = 5.427 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 492870.293
Standard deviation: 40.06795
R^2: 0.94965
Parameters:
a = 125.23135
b = 1632.15525
c = 63.76827
d = 0.52236

Bead 959

Date : Mon Oct 17 13:28:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
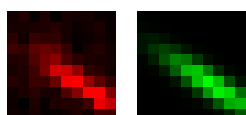Frame size : 10 pixels

Coordinates : 159 um (x), -37.0 um (y), 19.9 um (z)
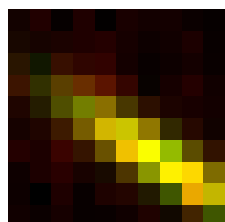Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	1.83 um	1.89 um	223 nm
z	2.3 um	2.3 um	885 nm
Asymmetry	0.211		
Theta	-32.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.924$

Parameters:
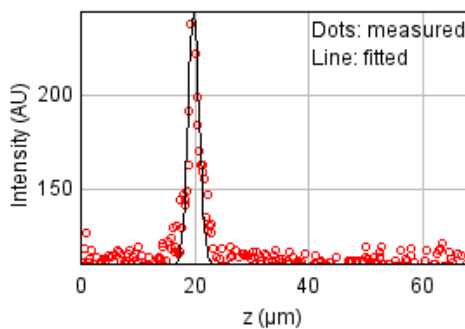A = 157.095   (brightness)
B = 115.304   (background)
a = 0.296 px
b = -0.395 px
c = 0.650 px

xc = 6.497 px
yc = 6.395 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21949.0760
Standard deviation: 8.45549
R^2: 0.86185
Parameters:
a = 110.02429
b = 245.56608
c = 19.89118
d = 0.97487

Bead 960

Date : Mon Oct 17 13:28:47 PDT 2022
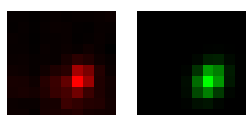Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -57.2 um (x), -47.3 um (y), 21.0 um (z)
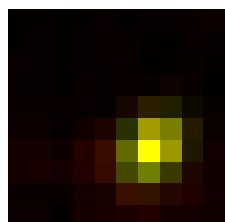Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	526 nm	544 nm	223 nm
z	1.47 um	1.48 um	885 nm
Asymmetry	0.778		
Theta	53.8°		

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
$R^2 = 0.922$

Parameters:
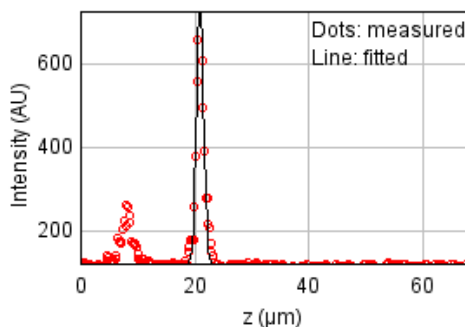A = 611.827   (brightness)
B = 131.146   (background)
a = 0.691 px
b = 0.151 px
c = 0.595 px

xc = 6.154 px
yc = 5.877 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 173898.230
Standard deviation: 23.80008
R^2: 0.91432
Parameters:
a = 119.22375
b = 736.90542
c = 21.00743
d = 0.62408

Bead 961

Date : Mon Oct 17 13:28:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -81.8 um (x), -64.7 um (y), 24.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.803		
Theta	-84.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.978$

Parameters:
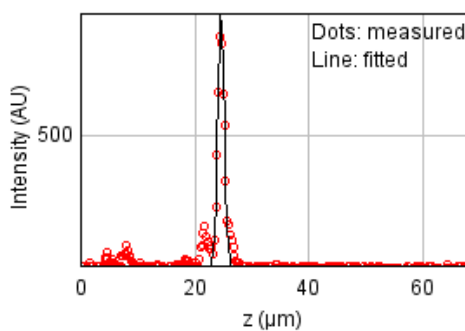 A = 943.311   (brightness)
 B = 121.636   (background)
 a = 0.831 px
 b = -0.030 px
 c = 0.541 px

xc = 8.385 px
yc = 8.953 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 143133.039
Standard deviation: 21.59239
R^2: 0.94312
Parameters:
 a = 119.80976
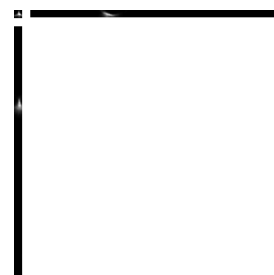 b = 851.92203
 c = 24.67710
 d = 0.56640

Bead 962

Date : Mon Oct 17 13:28:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

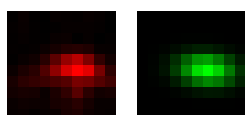Coordinates : -21.1 um (x), -84.2 um (y), 21.1 um (z)
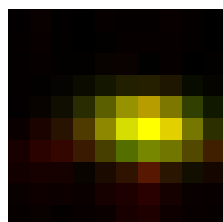Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	487 nm	504 nm	223 nm
max	885 nm	915 nm	223 nm
z	2.12 um	2.12 um	885 nm
Asymmetry	0.551		
Theta	-4.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.938$

Parameters:
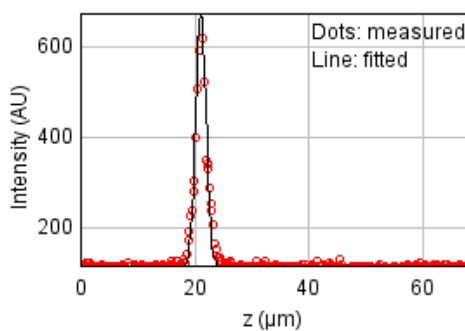A = 641.479   (brightness)
B = 131.884   (background)
a = 0.174 px
b = -0.034 px
c = 0.562 px

xc = 5.892 px
yc = 4.928 px

Z profile & fitting parameters:

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

Sum of residuals squared: 80385.5297
Standard deviation: 16.18154
R^2: 0.96409
Parameters:
a = 114.37956
b = 673.72204
c = 21.14634
d = 0.89833

Bead 963

Date : Mon Oct 17 13:28:48 PDT 2022
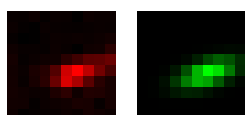Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 131 um (x), 80.0 um (y), 20.9 um (z)
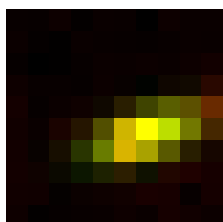Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	374 nm	387 nm	223 nm
max	890 nm	920 nm	223 nm
z	1.88 um	1.89 um	885 nm
Asymmetry	0.42		
Theta	17.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 424.231   (brightness)
 B = 116.749   (background)
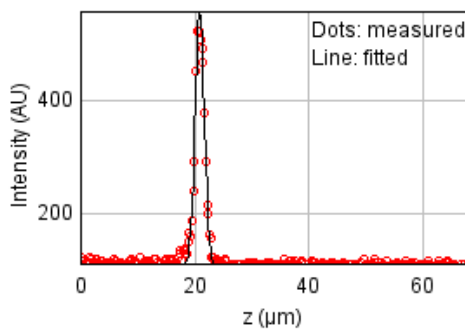 a = 0.242 px
 b = 0.227 px
 c = 0.885 px

 xc = 5.984 px
 yc = 5.246 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27563.3944
Standard deviation: 9.47539
R^2: 0.97804
Parameters:
 a = 111.71383
 b = 557.88726
 c = 20.94588
 d = 0.79887

Bead 964

Date : Mon Oct 17 13:28:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

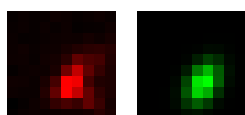Coordinates : 59.7 um (x), 78.1 um (y), 21.5 um (z)
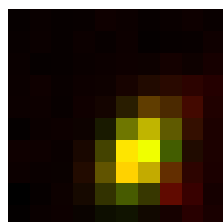Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	456 nm	471 nm	223 nm
max	688 nm	711 nm	223 nm
z	2.14 um	2.15 um	885 nm
Asymmetry	0.663		
Theta	60.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.908$

Parameters:
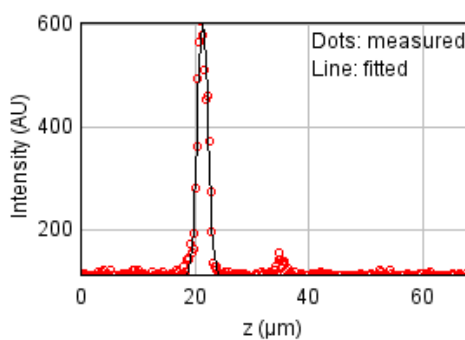A = 516.787 (brightness)
B = 126.866 (background)
a = 0.558 px
b = 0.155 px
c = 0.372 px

xc = 5.556 px
yc = 6.149 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50374.6789
Standard deviation: 12.80964
R^2: 0.97094
Parameters:
 a = 114.00895
 b = 605.20921
 c = 21.46618
 d = 0.90916

Bead 965

Date : Mon Oct 17 13:28:48 PDT 2022
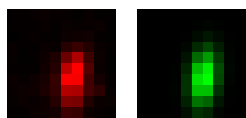Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -1.85 um (x), 72.6 um (y), 20.6 um (z)
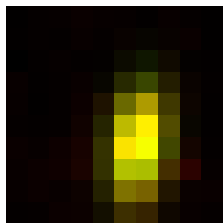Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	878 nm	908 nm	223 nm
z	1.22 um	1.23 um	885 nm
Asymmetry	0.497		
Theta	82.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 708.021   (brightness)
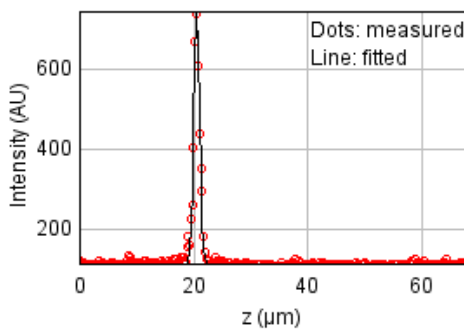 B = 120.661   (background)
 a = 0.697 px
 b = 0.067 px
 c = 0.183 px

xc = 5.599 px
yc = 5.835 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41996.4715
Standard deviation: 11.69600
R^2: 0.97518
Parameters:
 a = 115.50433
 b = 752.35189
 c = 20.58930
 d = 0.51897

Bead 966

Date : Mon Oct 17 13:28:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
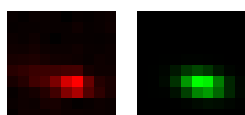Frame size : 10 pixels

Coordinates : -158 um (x), 69.0 um (y), 21.1 um (z)
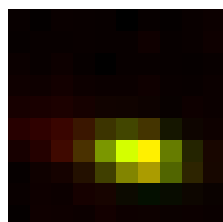Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	367 nm	380 nm	223 nm
max	696 nm	719 nm	223 nm
z	1.86 um	1.87 um	885 nm
Asymmetry	0.528		
Theta	-9.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.923$

Parameters:
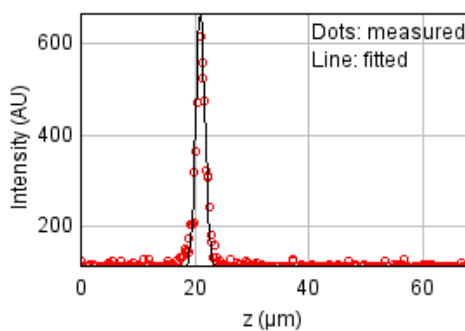 A = 493.152 (brightness)
 B = 123.222 (background)
 a = 0.295 px
 b = -0.112 px
 c = 0.977 px

xc = 5.473 px
yc = 6.219 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 103022.563
Standard deviation: 18.31880
R^2: 0.94807
Parameters:
 a = 111.79995
 b = 667.14797
 c = 21.05593
 d = 0.78951

Bead 967 (Rejected)

Date : Mon Oct 17 13:28:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 67.4 um (x), 67.2 um (y), 21.8 um (z)
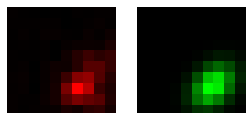Corresponding bead : Not found
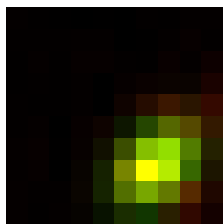Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	528 nm	546 nm	223 nm
max	742 nm	767 nm	223 nm
z	1.86 um	1.87 um	885 nm
Asymmetry	0.711		
Theta	46.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.899$

Parameters:
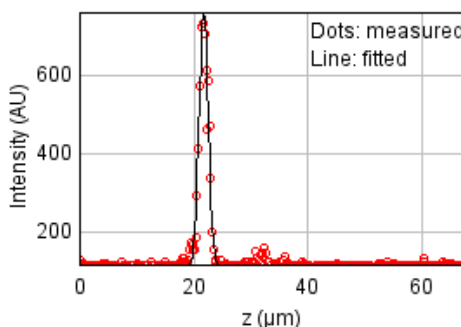 A = 513.659   (brightness)
 B = 121.734   (background)
 a = 0.368 px
 b = 0.119 px
 c = 0.357 px

xc = 6.464 px
yc = 6.753 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 98469.7991
Standard deviation: 17.90945
R^2: 0.96301
Parameters:
 a = 114.76085
 b = 762.80147
 c = 21.82435
 d = 0.79049

Bead 968

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
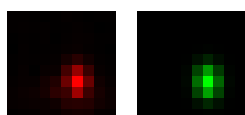Frame size : 10 pixels

Coordinates : -29.3 um (x), 15.4 um (y), 21.4 um (z)
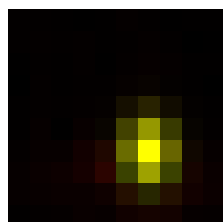Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	523 nm	541 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.738		
Theta	-87.6°		

XY profile & fitting parameters :

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

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

Parameters:
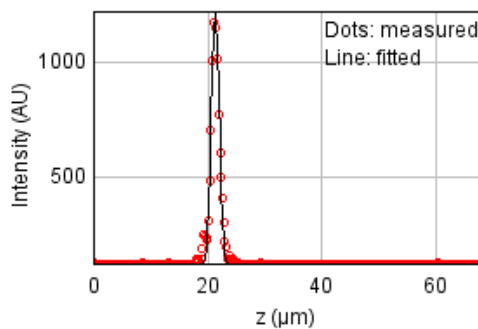 A = 1171.456   (brightness)
 B = 131.970   (background)
 a = 0.898 px
 b = -0.017 px
 c = 0.490 px

xc = 5.982 px
yc = 6.032 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 113630.532
Standard deviation: 19.23882
R^2: 0.98286
Parameters:
 a = 115.71019
 b = 1225.31417
 c = 21.39570
 d = 0.68105

Bead 969

Date : Mon Oct 17 13:28:49 PDT 2022
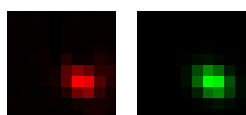Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 99.1 um (x), 9.02 um (y), 20.9 um (z)
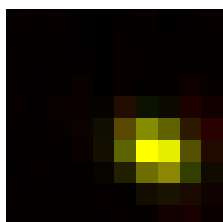Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	556 nm	575 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.737		
Theta	-25.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.975$

Parameters:
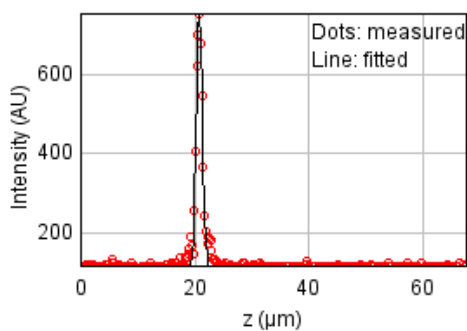A = 681.200   (brightness)
B = 119.305   (background)
a = 0.503 px
b = -0.143 px
c = 0.729 px

xc = 6.430 px
yc = 5.998 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 46206.8034
Standard deviation: 12.26828
R^2: 0.97331
Parameters:
 a = 114.15499
 b = 755.58666
 c = 20.87512
 d = 0.52273

Bead 970

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
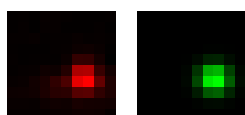Frame size : 10 pixels

Coordinates : -18.6 um (x), 8.19 um (y), 21.7 um (z)
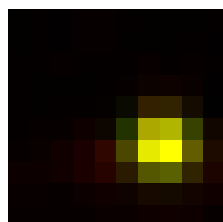Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	493 nm	510 nm	223 nm
z	1.73 um	1.74 um	885 nm
Asymmetry	0.915		
Theta	-3.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 907.483   (brightness)
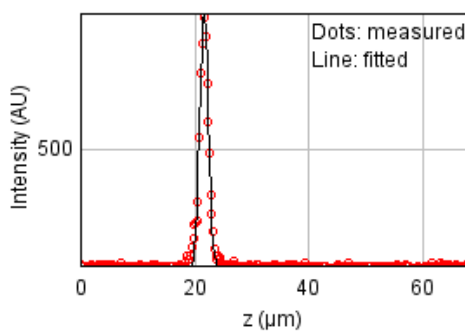 B = 127.604   (background)
 a = 0.552 px
 b = -0.006 px
 c = 0.658 px

xc = 6.578 px
yc = 5.757 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 63607.1448
Standard deviation: 14.39408
R^2: 0.98423
Parameters:
 a = 114.00065
 b = 949.37474
 c = 21.70951
 d = 0.73437

Bead 971

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
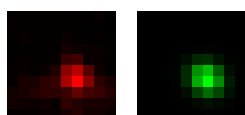Frame size : 10 pixels

Coordinates : -19.0 um (x), -34.0 um (y), 17.3 um (z)
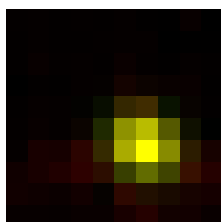Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	464 nm	479 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.861		
Theta	-30.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.937$

Parameters:
 A = 635.039   (brightness)
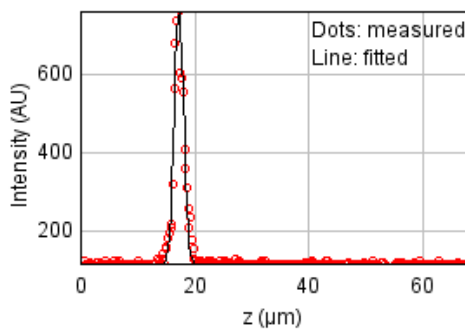 B = 130.396   (background)
 a = 0.504 px
 b = -0.071 px
 c = 0.582 px

xc = 5.862 px
yc = 5.745 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 87352.4695
Standard deviation: 16.86819
R^2: 0.96814
Parameters:
 a = 113.35984
 b = 760.88922
 c = 17.30088
 d = 0.82114

Bead 972

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
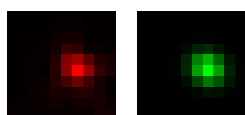Frame size : 10 pixels

Coordinates : 56.3 um (x), -71.5 um (y), 21.4 um (z)
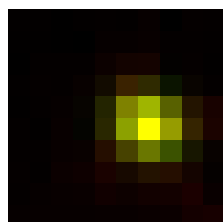Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	476 nm	492 nm	223 nm
max	550 nm	568 nm	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.866		
Theta	-29.0°		

XY profile & fitting parameters :

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

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

Parameters:
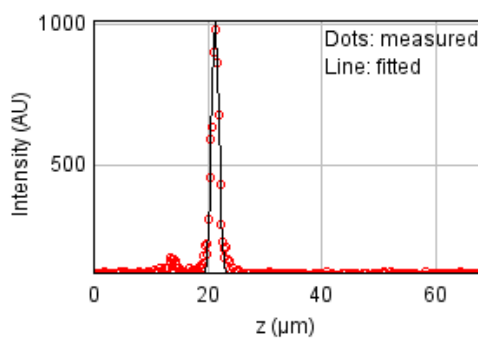 A = 921.470   (brightness)
 B = 136.198   (background)
 a = 0.479 px
 b = -0.063 px
 c = 0.558 px

xc = 5.955 px
yc = 4.805 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 109370.924
Standard deviation: 18.87477
R^2: 0.97270
Parameters:
 a = 117.34522
 b = 1015.24108
 c = 21.39184
 d = 0.62018

Bead 973

Date : Mon Oct 17 13:28:49 PDT 2022
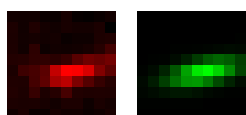Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 156 um (x), 92.4 um (y), 20.3 um (z)
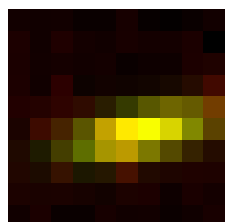Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	389 nm	223 nm
max	1.15 um	1.18 um	223 nm
z	1.97 um	1.98 um	885 nm
Asymmetry	0.329		
Theta	11.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.943$

Parameters:
 A = 170.196 (brightness)
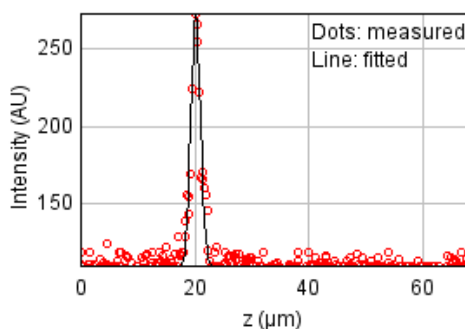 B = 113.373 (background)
 a = 0.136 px
 b = 0.166 px
 c = 0.912 px

  xc = 5.645 px
  yc = 5.155 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16738.3993
Standard deviation: 7.38393
R^2: 0.91046
Parameters:
 a = 109.97254
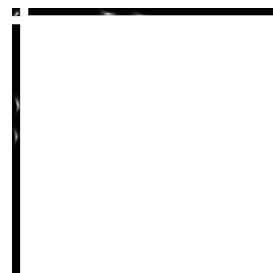 b = 272.43530
 c = 20.25014
 d = 0.83706

Bead 974

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

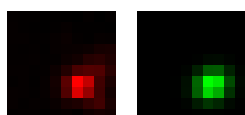Coordinates : 86.5 um (x), 59.1 um (y), 21.6 um (z)
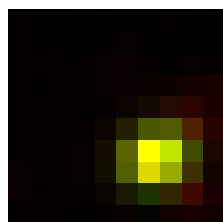Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	470 nm	223 nm
max	524 nm	541 nm	223 nm
z	1.91 um	1.92 um	885 nm
Asymmetry	0.868		
Theta	25.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.936$

Parameters:
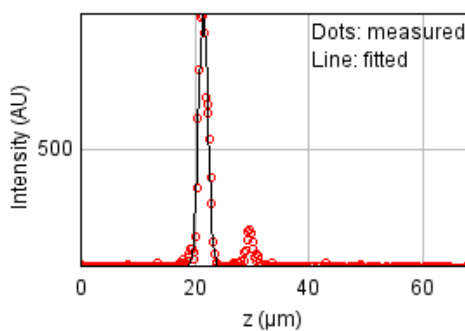 A = 864.324   (brightness)
 B = 126.624   (background)
 a = 0.519 px
 b = 0.062 px
 c = 0.620 px

xc = 6.364 px
yc = 6.323 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 186084.806
Standard deviation: 24.61990
R^2: 0.95806
Parameters:
 a = 116.81474
 b = 940.54247
 c = 21.56742
 d = 0.81202

Bead 975

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
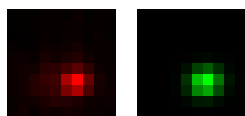Frame size : 10 pixels

Coordinates : -92.2 um (x), 44.8 um (y), 22.0 um (z)
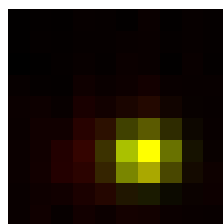Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.88 um	1.89 um	885 nm
Asymmetry	0.856		
Theta	8.0°		

XY profile & fitting parameters :

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

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

Parameters:
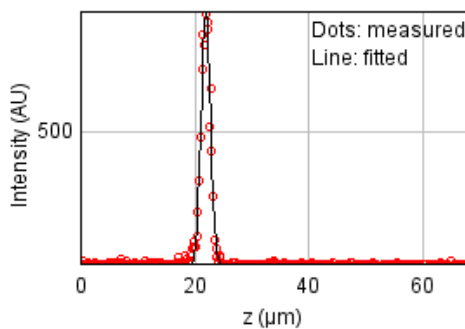 A = 715.982   (brightness)
 B = 133.270   (background)
 a = 0.542 px
 b = 0.027 px
 c = 0.730 px

xc = 5.747 px
yc = 6.221 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 63636.2865
Standard deviation: 14.39737
R^2: 0.98139
Parameters:
 a = 113.17358
 b = 851.28497
 c = 22.02120
 d = 0.79806

Bead 976

Date : Mon Oct 17 13:28:49 PDT 2022
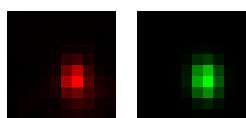Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 10.3 um (x), 42.7 um (y), 21.4 um (z)
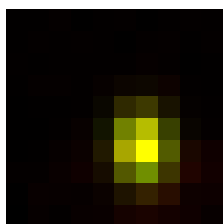Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	552 nm	570 nm	223 nm
z	1.45 um	1.46 um	885 nm
Asymmetry	0.774		
Theta	-85.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.970$

Parameters:
  A = 965.104 (brightness)
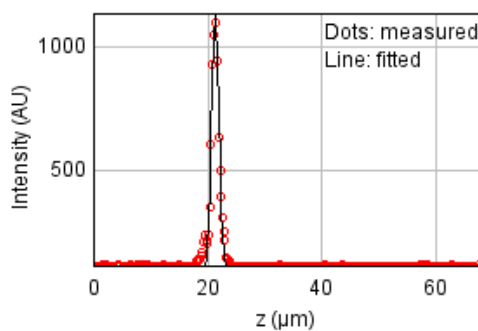 B = 125.603 (background)
  a = 0.734 px
  b = -0.025 px
  c = 0.443 px

xc = 5.789 px
yc = 5.830 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 108801.754
Standard deviation: 18.82560
R^2: 0.97867
Parameters:
 a = 116.65951
 b = 1135.14279
 c = 21.39354
 d = 0.61726

Bead 977 (Rejected)

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 20.4 um (x), -21.0 um (y), 18.1 um (z)
Corresponding bead : Not found
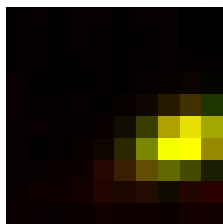Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	737 nm	762 nm	223 nm
z	3.14 um	3.15 um	885 nm
Asymmetry	0.577		
Theta	21.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
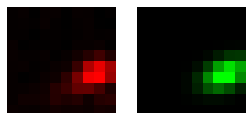
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.971$

Parameters:
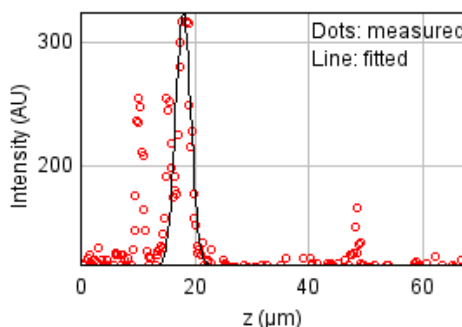 A = 598.733   (brightness)
 B = 120.772   (background)
 a = 0.311 px
 b = 0.166 px
 c = 0.676 px

xc = 7.679 px
yc = 5.678 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 184040.849
Standard deviation: 24.48431
R^2: 0.69795
Parameters:
 a = 118.30006
 b = 324.55983
 c = 18.07214
 d = 1.33382

Bead 978

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
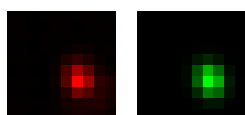Frame size : 10 pixels

Coordinates : 53.3 um (x), -22.2 um (y), 21.6 um (z)
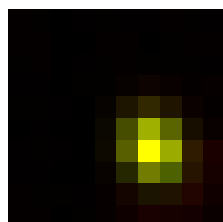Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	443 nm	223 nm
max	510 nm	528 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.84		
Theta	-66.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.968$

Parameters:
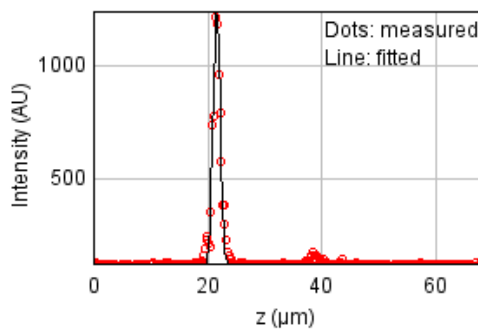 A = 1183.984   (brightness)
 B = 128.001   (background)
 a = 0.697 px
 b = -0.079 px
 c = 0.550 px

 xc = 6.195 px
 yc = 5.867 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 177940.617
Standard deviation: 24.07511
R^2: 0.97142
Parameters:
 a = 118.38839
 b = 1248.62345
 c = 21.63560
 d = 0.60690

Bead 979

Date : Mon Oct 17 13:28:49 PDT 2022
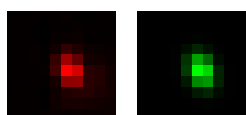Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 56.2 um (x), -23.5 um (y), 21.4 um (z)
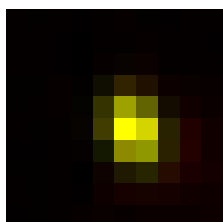Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	404 nm	223 nm
max	529 nm	547 nm	223 nm
z	1.42 um	1.43 um	885 nm
Asymmetry	0.739		
Theta	-66.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.974$

Parameters:
A = 1365.803   (brightness)
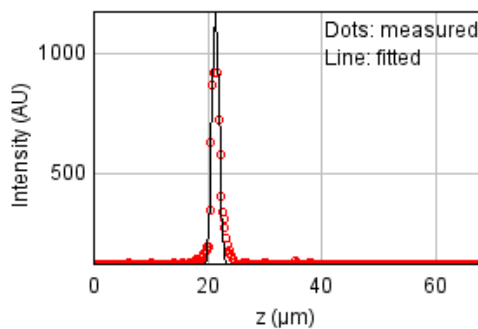B = 138.269   (background)
a = 0.819 px
b = -0.144 px
c = 0.541 px

xc = 5.391 px
yc = 5.028 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 176371.345
Standard deviation: 23.96872
R^2: 0.96874
Parameters:
a = 115.82603
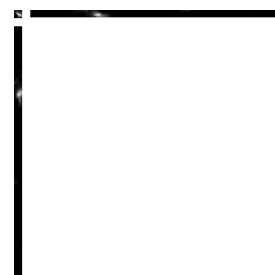b = 1193.43519
c = 21.43714
d = 0.60316

Bead 980

Date : Mon Oct 17 13:28:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

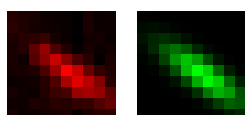Coordinates : 145 um (x), -53.5 um (y), 18.5 um (z)
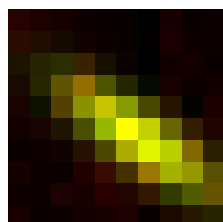Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	470 nm	223 nm
max	1.49 um	1.54 um	223 nm
z	2.57 um	2.58 um	885 nm
Asymmetry	0.306		
Theta	-35.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 209.163   (brightness)
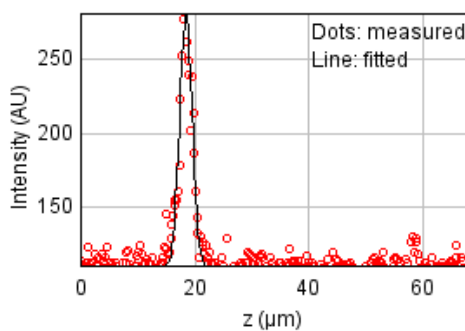 B = 118.636   (background)
 a = 0.263 px
 b = -0.279 px
 c = 0.446 px

xc = 5.542 px
yc = 5.401 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22007.1043
Standard deviation: 8.46666
R^2: 0.91617
Parameters:
 a = 110.54469
 b = 280.85096
 c = 18.53378
 d = 1.09163

Bead 981

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
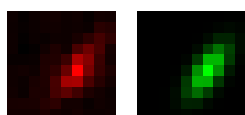Frame size : 10 pixels

Coordinates : -126 um (x), -74.4 um (y), 20.7 um (z)
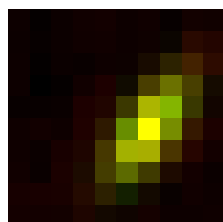Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	927 nm	959 nm	223 nm
z	1.68 um	1.69 um	885 nm
Asymmetry	0.443		
Theta	55.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 312.245   (brightness)
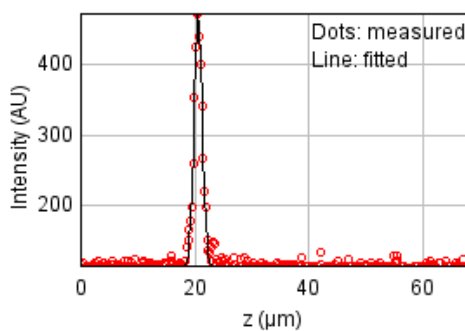 B = 120.798   (background)
 a = 0.588 px
 b = 0.298 px
 c = 0.362 px

xc = 6.011 px
yc = 4.966 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18388.9584
Standard deviation: 7.73944
R^2: 0.97516
Parameters:
 a = 112.16988
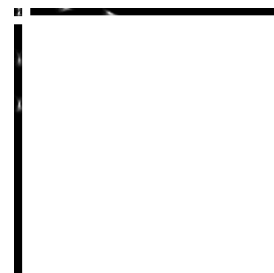 b = 473.29057
 c = 20.67043
 d = 0.71373

Bead 982

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

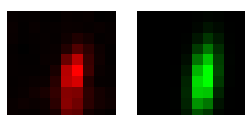Coordinates : -2.06 um (x), 91.1 um (y), 21.1 um (z)
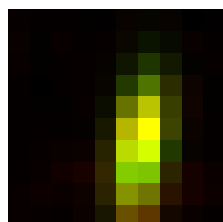Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	1.06 um	1.1 um	223 nm
z	1.11 um	1.12 um	885 nm
Asymmetry	0.373		
Theta	82.6°		

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 = 0.947

Parameters:
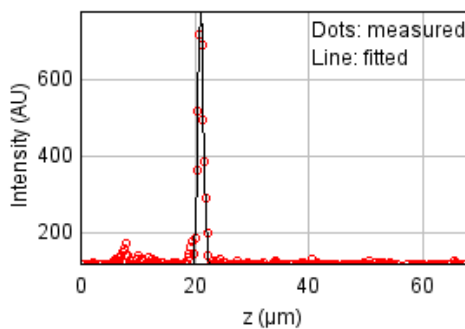 A = 683.981   (brightness)
 B = 123.481   (background)
 a = 0.841 px
 b = 0.094 px
 c = 0.131 px

xc = 5.616 px
yc = 5.783 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 44697.7850
Standard deviation: 12.06629
R^2: 0.97322
Parameters:
 a = 115.73508
 b = 777.44562
 c = 21.12987
 d = 0.47213

Bead 983

Date : Mon Oct 17 13:28:50 PDT 2022
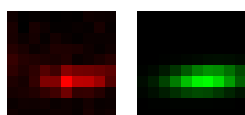Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 161 um (x), 72.4 um (y), 20.5 um (z)
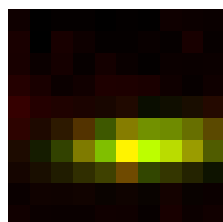Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	1.2 um	1.24 um	223 nm
z	2.09 um	2.1 um	885 nm
Asymmetry	0.316		
Theta	3.7°		

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 = 0.912

Parameters:
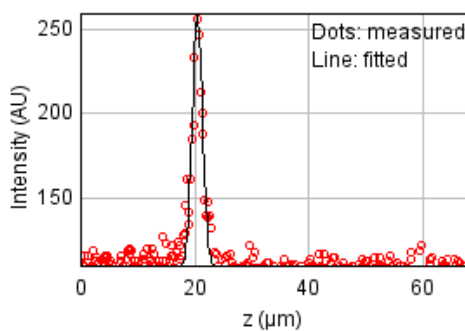 A = 167.374   (brightness)
 B = 117.036   (background)
 a = 0.097 px
 b = 0.054 px
 c = 0.931 px

xc = 5.851 px
yc = 5.811 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 15732.8993
Standard deviation: 7.15872
R^2: 0.90791
Parameters:
 a = 109.14224
 b = 259.88150
 c = 20.53587
 d = 0.88862

Bead 984

Date : Mon Oct 17 13:28:50 PDT 2022
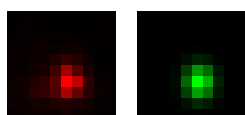Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -64.9 um (x), 57.2 um (y), 22.3 um (z)
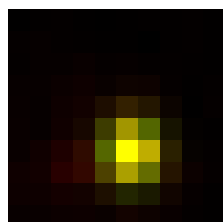Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	454 nm	470 nm	223 nm
max	519 nm	536 nm	223 nm
z	1.41 um	1.42 um	885 nm
Asymmetry	0.876		
Theta	89.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.953$

Parameters:
 A = 921.250   (brightness)
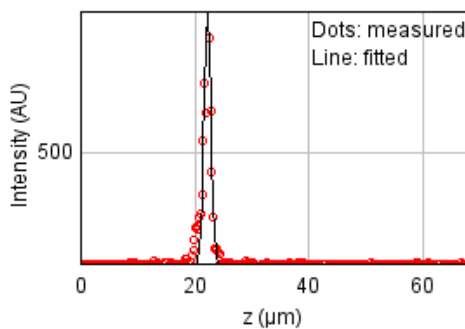 B = 133.867   (background)
 a = 0.650 px
 b = 0.001 px
 c = 0.499 px

xc = 5.200 px
yc = 6.032 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 180697.191
Standard deviation: 24.26088
R^2: 0.95313
Parameters:
 a = 115.85618
 b = 1001.36130
 c = 22.31117
 d = 0.60047

Bead 985

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
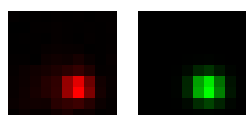Frame size : 10 pixels

Coordinates : -89.6 um (x), 44.5 um (y), 22.5 um (z)
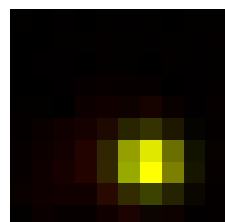Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	494 nm	511 nm	223 nm
z	1.8 um	1.81 um	885 nm
Asymmetry	0.872		
Theta	-6.1°		

XY profile & fitting parameters :

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

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

Parameters:
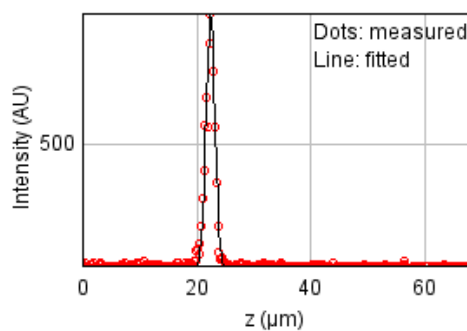 A = 867.907   (brightness)
 B = 130.328   (background)
 a = 0.551 px
 b = -0.018 px
 c = 0.720 px

xc = 5.853 px
yc = 6.564 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 109963.457
Standard deviation: 18.92583
R^2: 0.97182
Parameters:
 a = 113.83412
 b = 914.45341
 c = 22.49672
 d = 0.76486

Bead 986

Date : Mon Oct 17 13:28:50 PDT 2022
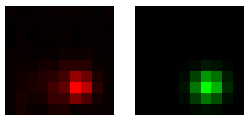Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -88.0 um (x), 37.9 um (y), 22.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	494 nm	511 nm	223 nm
z	1.94 um	1.95 um	885 nm
Asymmetry	0.914		
Theta	16.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.936$
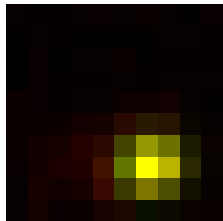
Parameters:
A = 576.690   (brightness)
B = 125.665   (background)
a = 0.559 px
b = 0.030 px
c = 0.650 px

xc = 6.188 px
yc = 6.891 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 65839.6825
Standard deviation: 14.64450
R^2: 0.95338
Parameters:
 a = 113.02056
 b = 573.03297
 c = 22.14865
 d = 0.82531

Bead 987

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

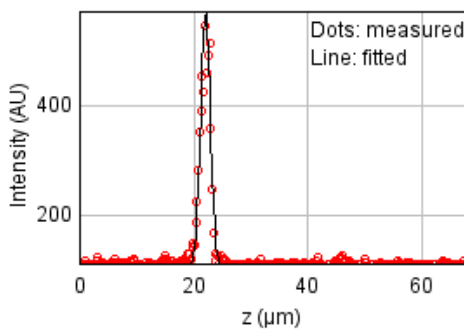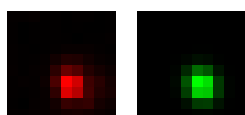Coordinates : 37.9 um (x), 37.1 um (y), 22.1 um (z)
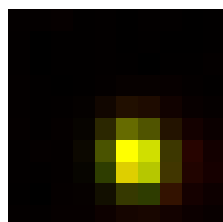Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	509 nm	526 nm	223 nm
z	1.67 um	1.67 um	885 nm
Asymmetry	0.891		
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 = 0.968

Parameters:
A = 1059.791   (brightness)
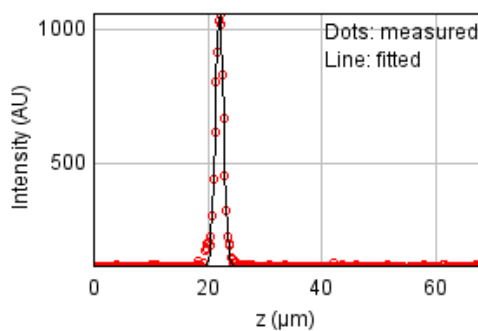B = 128.938   (background)
a = 0.632 px
b = -0.050 px
c = 0.541 px

xc = 5.418 px
yc = 6.343 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40453.4890
Standard deviation: 11.47913
R^2: 0.99193
Parameters:
 a = 114.01587
 b = 1064.96617
 c = 22.13897
 d = 0.70837

Bead 988 (Rejected)

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 16.1 um (x), 16.1 um (y), 48.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

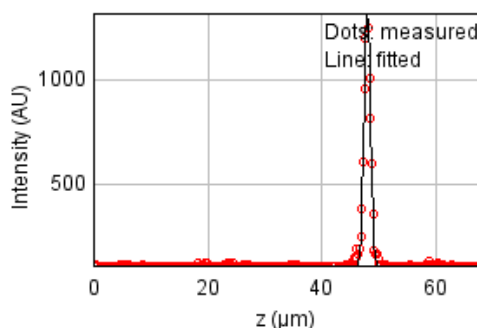| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 52055.4552
Standard deviation: 13.02159
R^2: 0.99198
Parameters:
 a = 116.65584
 b = 1316.23842
 c = 48.02118
 d = 0.57273

Bead 989

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
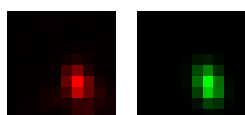Frame size : 10 pixels

Coordinates : 9.25 um (x), -8.86 um (y), 21.4 um (z)
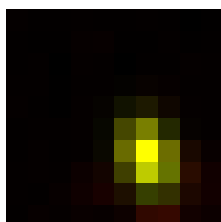Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.68 um	1.69 um	885 nm
Asymmetry	0.68		
Theta	-71.7°		

XY profile & fitting parameters :

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

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

Parameters:
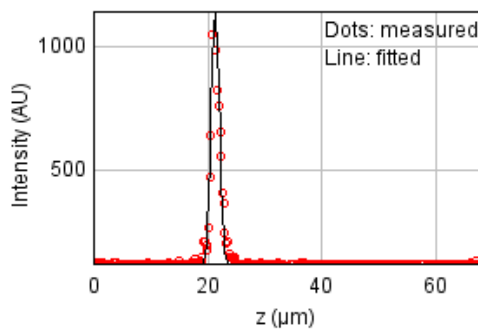 A = 1044.983   (brightness)
 B = 127.827   (background)
 a = 0.861 px
 b = -0.146 px
 c = 0.468 px

xc = 6.050 px
yc = 6.267 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 256789.164
Standard deviation: 28.92139
R^2: 0.95816
Parameters:
 a = 114.77293
 b = 1146.07729
 c = 21.39207
 d = 0.71290

Bead 990

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
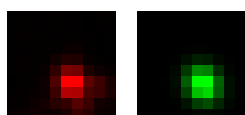Frame size : 10 pixels

Coordinates : 30.5 um (x), -44.3 um (y), 21.7 um (z)
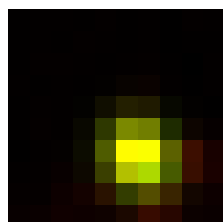Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	506 nm	523 nm	223 nm
max	574 nm	594 nm	223 nm
z	1.43 um	1.44 um	885 nm
Asymmetry	0.88		
Theta	-59.2°		

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 = 1254.618   (brightness)
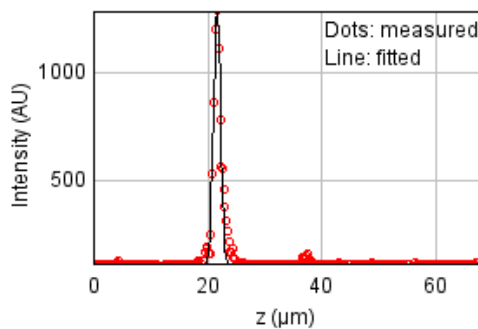 B = 131.846   (background)
 a = 0.494 px
 b = -0.052 px
 c = 0.438 px

xc = 5.544 px
yc = 6.258 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 272138.102
Standard deviation: 29.77320
R^2: 0.95952
Parameters:
 a = 118.57190
 b = 1284.68425
 c = 21.70726
 d = 0.60813

Bead 991

Date : Mon Oct 17 13:28:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

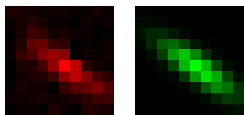Coordinates : 151 um (x), -56.1 um (y), 20.4 um (z)
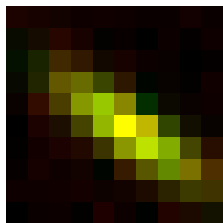Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	411 nm	223 nm
max	1.37 um	1.42 um	223 nm
z	2.44 um	2.45 um	885 nm
Asymmetry	0.29		
Theta	-35.5°		

XY profile & fitting parameters :

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

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

Parameters:
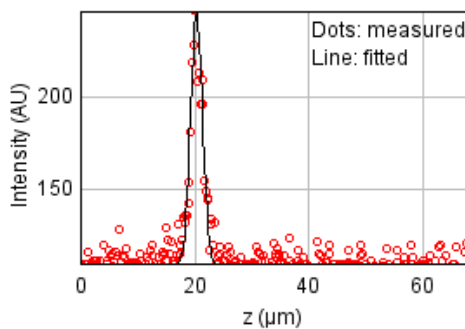 A = 167.562 (brightness)
 B = 113.429 (background)
 a = 0.334 px
 b = -0.367 px
 c = 0.586 px

xc = 5.188 px
yc = 5.168 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17394.2815
Standard deviation: 7.52721
R^2: 0.89244
Parameters:
 a = 110.23925
 b = 245.50731
 c = 20.39486
 d = 1.03510

Bead 992

Date : Mon Oct 17 13:28:50 PDT 2022
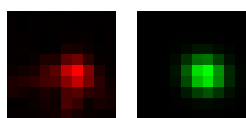Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -43.2 um (x), -80.4 um (y), 21.3 um (z)
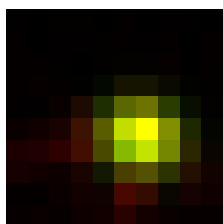Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	535 nm	553 nm	223 nm
max	614 nm	635 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.871		
Theta	-14.8°		

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 = 0.912

Parameters:
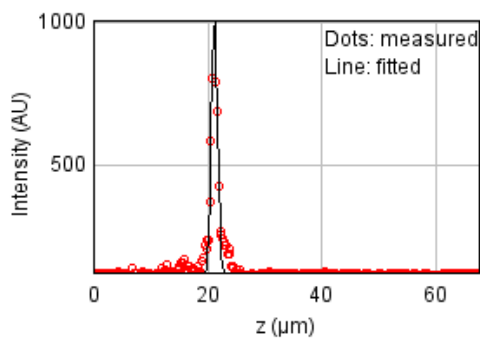 A = 870.396   (brightness)
 B = 139.314   (background)
 a = 0.363 px
 b = -0.028 px
 c = 0.462 px

xc = 5.725 px
yc = 5.358 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 138489.621
Standard deviation: 21.23926
R^2: 0.96021
Parameters:
 a = 117.23279
 b = 1017.49499
 c = 21.25768
 d = 0.52638

Bead 993 (Rejected)

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 27.6 um (x), 56.6 um (y), 20.4 um (z)
Corresponding bead : Not found
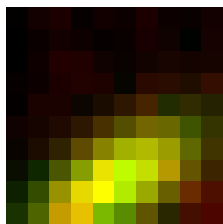Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	691 nm	715 nm	223 nm
max	1.48 um	1.53 um	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.467		
Theta	31.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
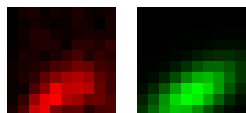
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
$R^2 = 0.901$

Parameters:
A = 147.774 (brightness)
B = 114.408 (background)
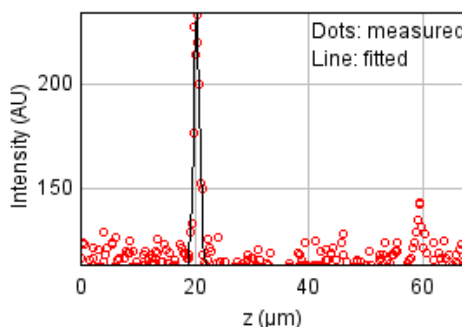a = 0.121 px
b = 0.098 px
c = 0.220 px

xc = 4.523 px
yc = 7.540 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 16877.3589
Standard deviation: 7.41452
R^2: 0.78039
Parameters:
a = 114.04374
b = 234.11863
c = 20.42033
d = 0.53105

Bead 994

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
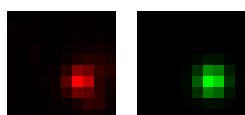Frame size : 10 pixels

Coordinates : 82.8 um (x), 43.6 um (y), 22.5 um (z)
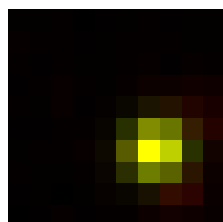Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	467 nm	483 nm	223 nm
z	1.62 um	1.63 um	885 nm
Asymmetry	0.961		
Theta	18.0°		

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:
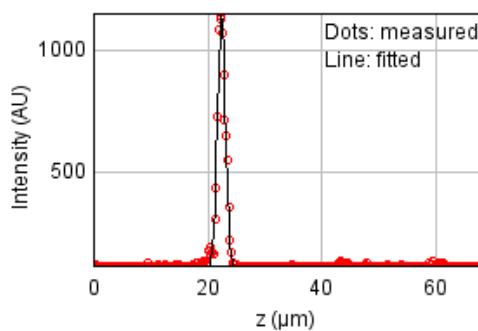 A = 1008.017   (brightness)
 B = 125.576   (background)
 a = 0.619 px
 b = 0.015 px
 c = 0.661 px

xc = 6.336 px
yc = 5.948 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 117118.273
Standard deviation: 19.53184
R^2: 0.97997
Parameters:
 a = 115.64655
 b = 1150.73342
 c = 22.48061
 d = 0.68859

Bead 995 (Rejected)

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 157 um (x), -9.24 um (y), 38.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

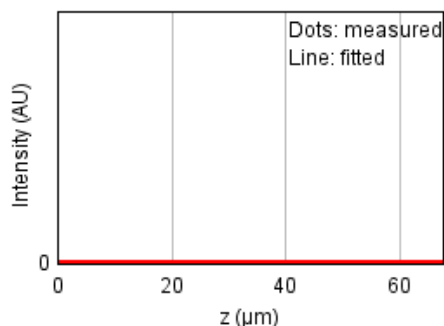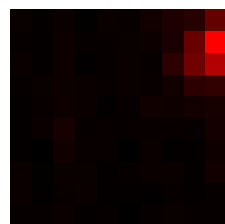| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 0.00000E0
Standard deviation: 0.00000E0
R^2: 0.00000
Parameters:
 a = 0.00000E0
 b = 0.00000E0
 c = -0.11115
 d = 0.11151

Bead 996 (Rejected)

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -71.9 um (x), -46.4 um (y), 37.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

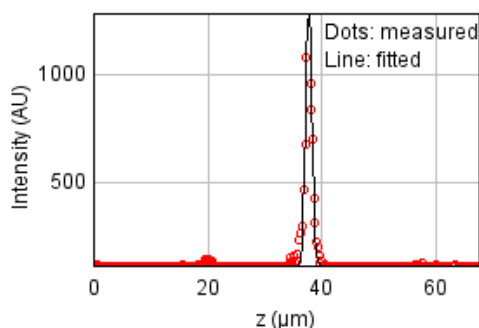| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.36 um	1.37 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 247668.687
Standard deviation: 28.40314
R^2: 0.96157
Parameters:
 a = 117.32593
 b = 1288.35230
 c = 37.77649
 d = 0.57843

Bead 997 (Rejected)

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 80.3 um (x), -54.3 um (y), 60.5 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

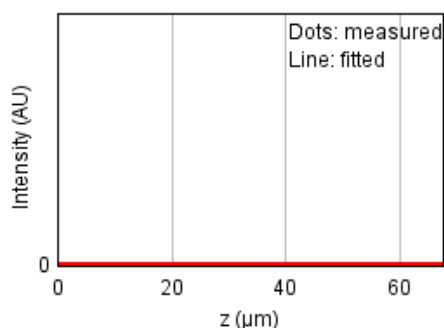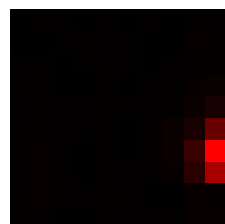| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 0.00000E0
Standard deviation: 0.00000E0
R^2: 0.00000
Parameters:
 a = 0.00000E0
 b = 0.00000E0
 c = -0.11115
 d = 0.11151

Bead 998

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
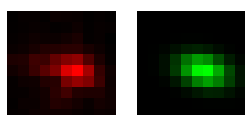Frame size : 10 pixels

Coordinates : -74.2 um (x), -90.6 um (y), 21.8 um (z)
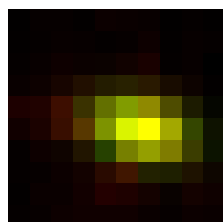Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	486 nm	502 nm	223 nm
max	800 nm	827 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.607		
Theta	-14.1°		

XY profile & fitting parameters :

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

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

Parameters:
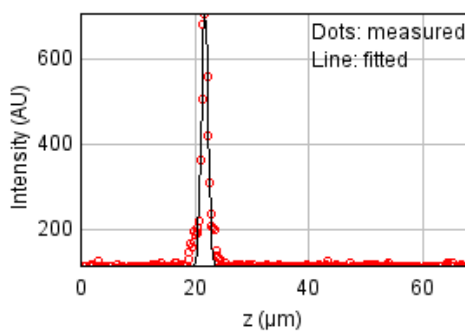 A = 547.061   (brightness)
 B = 127.010   (background)
 a = 0.231 px
 b = -0.085 px
 c = 0.548 px

xc = 5.596 px
yc = 5.003 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 57316.3113
Standard deviation: 13.66375
R^2: 0.96474
Parameters:
 a = 116.03051
 b = 706.62753
 c = 21.83523
 d = 0.57535

Bead 999 (Rejected)

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 27.5 um (x), 56.3 um (y), 20.4 um (z)
Corresponding bead : Not found
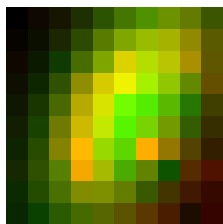Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.12 um	1.16 um	223 nm
max	2.18 um	2.25 um	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.515		
Theta	62.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
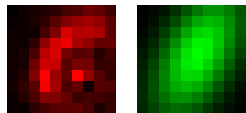
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.661$

Parameters:
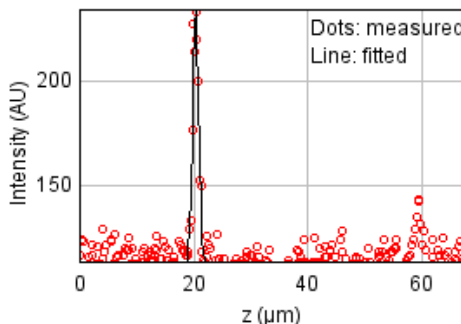 A = 135.611   (brightness)
 B = 106.615   (background)
 a = 0.090 px
 b = 0.032 px
 c = 0.045 px

xc = 5.120 px
yc = 3.962 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16877.3589
Standard deviation: 7.41452
R^2: 0.78039
Parameters:
 a = 114.04374
 b = 234.11863
 c = 20.42033
 d = 0.53105

Bead 1000

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
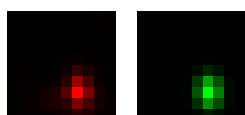Frame size : 10 pixels

Coordinates : -26.8 um (x), 22.9 um (y), 22.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	404 nm	223 nm
max	503 nm	520 nm	223 nm
z	1.48 um	1.48 um	885 nm
Asymmetry	0.777		
Theta	-88.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
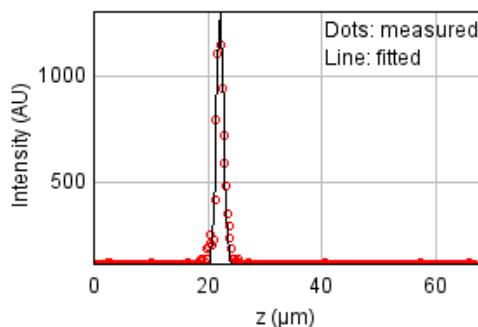A = 1210.438   (brightness)
B = 123.541   (background)
a = 0.880 px
b = -0.011 px
c = 0.531 px

xc = 6.117 px
yc = 6.939 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 178499.396
Standard deviation: 24.11289
R^2: 0.97475
Parameters:
a = 115.70544
b = 1302.42575
c = 22.22754
d = 0.62796