Bead 2701

Date : Mon Oct 17 13:53:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
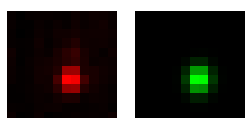
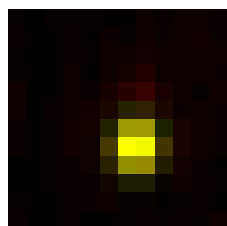Coordinates : -14.0 um (x), -89.9 um (y), 51.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	438 nm	270 nm
max	501 nm	522 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.839		
Theta	87.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 674.938   (brightness)
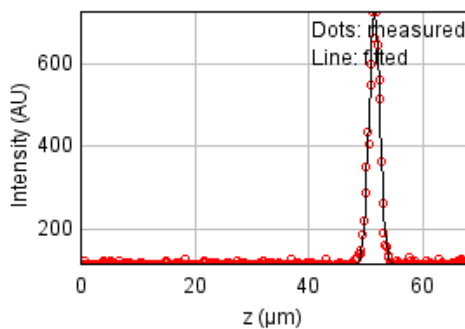 B = 124.369   (background)
 a = 0.758 px
 b = 0.009 px
 c = 0.534 px

xc = 6.485 px
yc = 6.959 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39198.4740
Standard deviation: 11.29966
R^2: 0.98600
Parameters:
 a = 113.91766
 b = 730.70854
 c = 51.57187
 d = 0.94789

Bead 2702

Date : Mon Oct 17 13:53:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
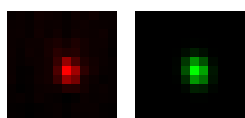Frame size : 12 pixels

Coordinates : -21.3 um (x), 77.1 um (y), 51.6 um (z)
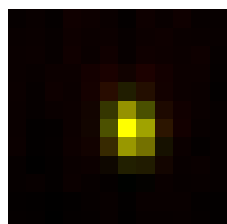Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	508 nm	529 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.795		
Theta	-74.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.970$

Parameters:
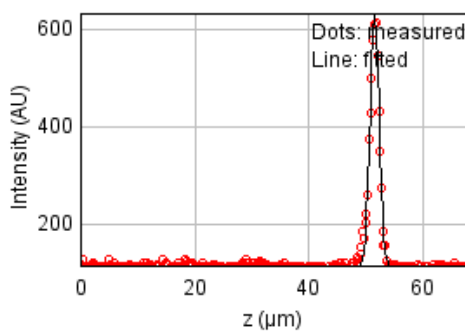A = 546.773   (brightness)
B = 122.299   (background)
a = 0.800 px
b = -0.076 px
c = 0.540 px

xc = 6.225 px
yc = 6.048 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21109.6500
Standard deviation: 8.29223
R^2: 0.98765
Parameters:
 a = 113.59678
 b = 636.68051
 c = 51.58584
 d = 0.79938

Bead 2703

Date : Mon Oct 17 13:53:31 PDT 2022
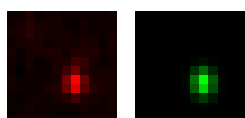Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -116 um (x), 61.6 um (y), 51.5 um (z)
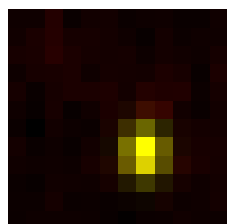Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	382 nm	397 nm	270 nm
max	490 nm	511 nm	270 nm
z	1.75 um	1.76 um	1.3 um
Asymmetry	0.778		
Theta	-88.6°		

XY profile & fitting parameters :

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

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

Parameters:
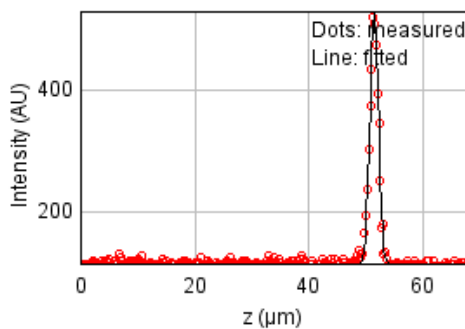 A = 448.380   (brightness)
 B = 123.729   (background)
 a = 0.921 px
 b = -0.009 px
 c = 0.559 px

xc = 6.945 px
yc = 7.321 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17668.0041
Standard deviation: 7.58620
R^2: 0.98282
Parameters:
 a = 112.78884
 b = 531.36142
 c = 51.50759
 d = 0.74522

Bead 2704

Date : Mon Oct 17 13:53:31 PDT 2022
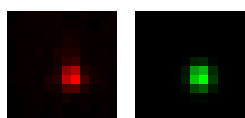Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -37.3 um (x), 34.1 um (y), 51.9 um (z)
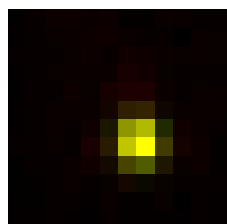Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	447 nm	465 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.883		
Theta	-82.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1006.906   (brightness)
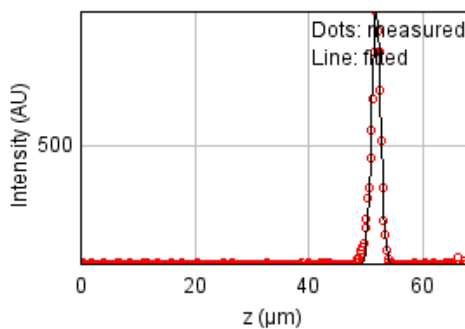 B = 128.591   (background)
 a = 0.859 px
 b = -0.024 px
 c = 0.675 px

xc = 6.640 px
yc = 6.723 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55369.3599
Standard deviation: 13.42968
R^2: 0.98710
Parameters:
 a = 112.96711
 b = 942.46356
 c = 51.86349
 d = 0.79728

Bead 2705

Date : Mon Oct 17 13:53:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
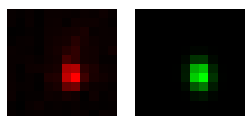Frame size : 12 pixels

Coordinates : -128 um (x), 20.8 um (y), 51.7 um (z)
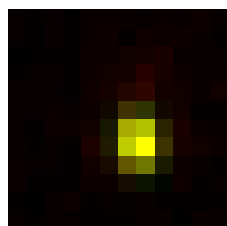Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	508 nm	529 nm	270 nm
z	1.9 um	1.9 um	1.3 um
Asymmetry	0.751		
Theta	-83.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 589.911   (brightness)
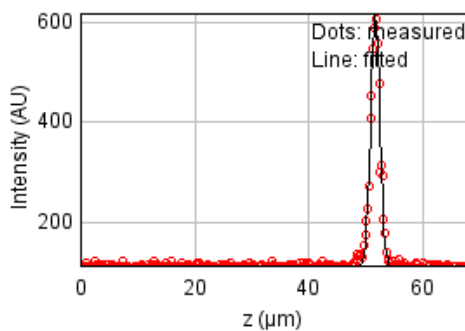B = 123.771   (background)
a = 0.917 px
b = -0.047 px
c = 0.526 px

xc = 6.607 px
yc = 6.734 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26558.9674
Standard deviation: 9.30114
R^2: 0.98349
Parameters:
a = 112.88066
b = 617.36523
c = 51.70351
d = 0.80563

Bead 2706

Date : Mon Oct 17 13:53:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
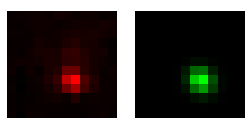Frame size : 12 pixels

Coordinates : 71.2 um (x), 14.6 um (y), 52.1 um (z)
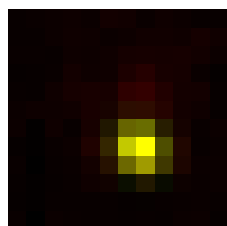Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	469 nm	488 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.888		
Theta	-51.8°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.935$

Parameters:
 A = 578.578   (brightness)
 B = 125.331   (background)
 a = 0.712 px
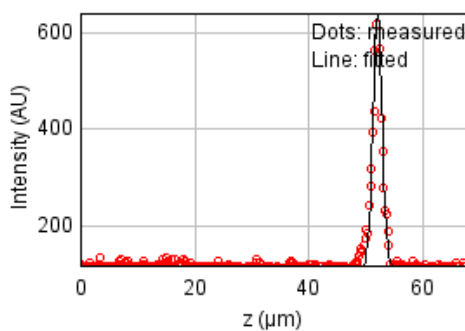 b = -0.080 px
 c = 0.674 px

xc = 6.679 px
yc = 7.091 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 44852.6284
Standard deviation: 12.08717
R^2: 0.97435
Parameters:
 a = 114.97044
 b = 640.16610
 c = 52.10603
 d = 0.80016

Bead 2707

Date : Mon Oct 17 13:53:31 PDT 2022
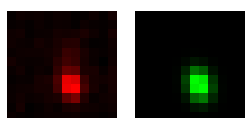Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

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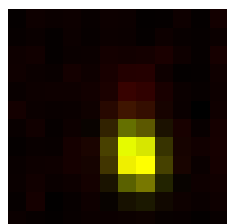Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	444 nm	270 nm
max	573 nm	596 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.745		
Theta	-76.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.954$

Parameters:
A = 385.309 (brightness)
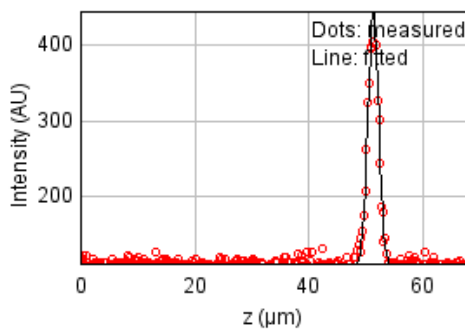B = 119.938 (background)
a = 0.719 px
b = -0.075 px
c = 0.427 px

xc = 6.496 px
yc = 7.531 px

Z profile & fitting parameters:

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

Bead 2708

Date : Mon Oct 17 13:53:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
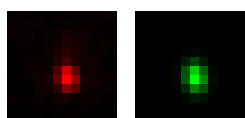Frame size : 12 pixels

Coordinates : -18.7 um (x), -40.5 um (y), 51.5 um (z)
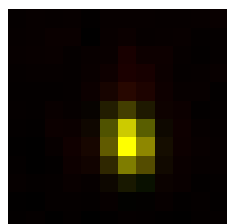Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	538 nm	560 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.74		
Theta	-79.8°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.975$

Parameters:
 A = 732.226   (brightness)
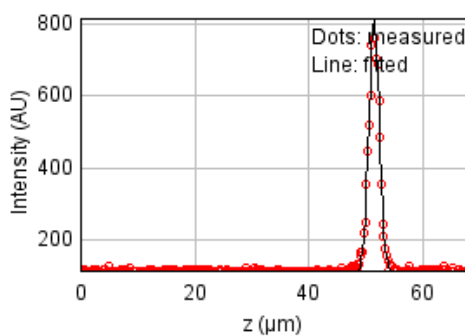 B = 123.252   (background)
 a = 0.834 px
 b = -0.067 px
 c = 0.476 px

xc = 6.099 px
yc = 6.758 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23782.3801
Standard deviation: 8.80154
R^2: 0.99311
Parameters:
 a = 113.78417
 b = 815.39102
 c = 51.50498
 d = 0.90737

Bead 2709

Date : Mon Oct 17 13:53:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
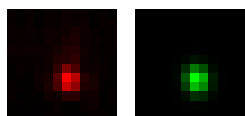Frame size : 12 pixels

Coordinates : 10.6 um (x), -78.0 um (y), 51.9 um (z)
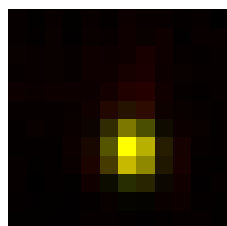Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	444 nm	270 nm
max	501 nm	522 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.851		
Theta	-80.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 620.949   (brightness)
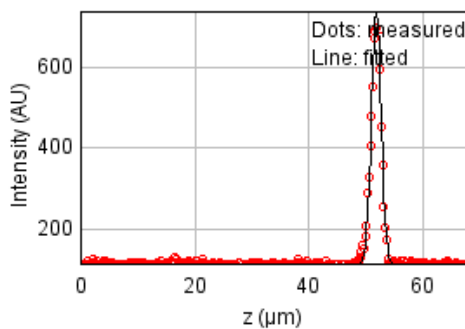B = 126.053   (background)
a = 0.733 px
b = -0.033 px
c = 0.540 px

xc = 6.255 px
yc = 7.215 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29520.8649
Standard deviation: 9.80608
R^2: 0.98865
Parameters:
 a = 113.70037
 b = 737.28060
 c = 51.88663
 d = 0.85930

Bead 2710

Date : Mon Oct 17 13:53:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
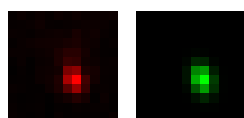Frame size : 12 pixels

Coordinates : 75.8 um (x), 72.7 um (y), 52.0 um (z)
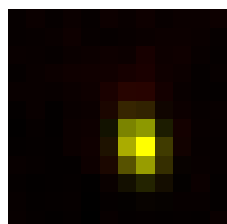Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	389 nm	270 nm
max	536 nm	559 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.696		
Theta	-75.0°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.965$

  Parameters:
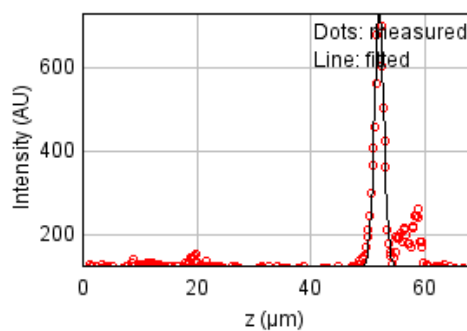 A = 701.628   (brightness)
  B = 124.094   (background)
  a = 0.930 px
  b = -0.125 px
  c = 0.500 px

xc = 6.706 px
yc = 6.938 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 219792.175
Standard deviation: 26.75697
R^2: 0.91604
Parameters:
 a = 123.76337
 b = 734.62337
 c = 52.03157
 d = 0.83404

Bead 2711

Date : Mon Oct 17 13:53:32 PDT 2022
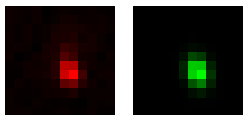Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 38.8 um (x), 6.34 um (y), 51.6 um (z)
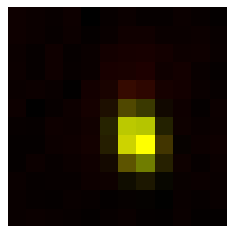Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	539 nm	562 nm	270 nm
z	2.17 um	2.17 um	1.3 um
Asymmetry	0.712		
Theta	-75.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
 A = 559.831   (brightness)
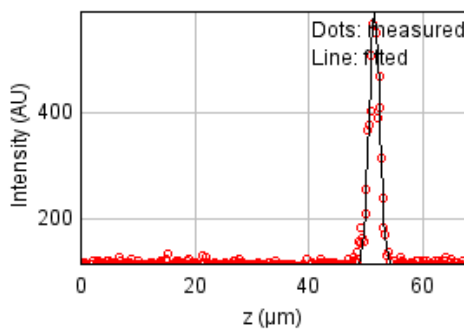 B = 122.900   (background)
 a = 0.882 px
 b = -0.106 px
 c = 0.488 px

xc = 6.569 px
yc = 6.674 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 45996.3734
Standard deviation: 12.24032
R^2: 0.97261
Parameters:
 a = 113.68793
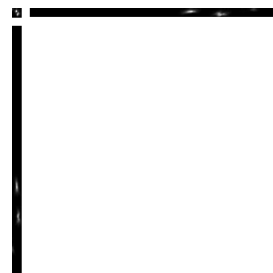 b = 595.02011
 c = 51.55986
 d = 0.91939

Bead 2712

Date : Mon Oct 17 13:53:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

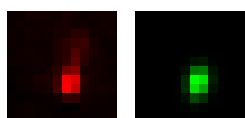Coordinates : -71.6 um (x), 3.79 um (y), 51.7 um (z)
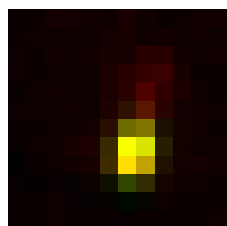Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	368 nm	384 nm	270 nm
max	530 nm	552 nm	270 nm
z	2.52 um	2.53 um	1.3 um
Asymmetry	0.695		
Theta	79.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.901$

Parameters:
 A = 601.238 (brightness)
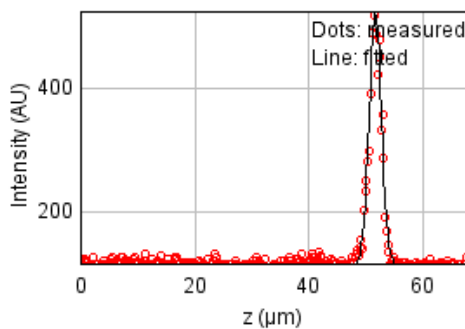 B = 126.826 (background)
 a = 0.972 px
 b = 0.093 px
 c = 0.496 px

 xc = 6.411 px
 yc = 7.280 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 43764.9666
Standard deviation: 11.93972
R^2: 0.96922
Parameters:
 a = 114.06612
 b = 525.75767
 c = 51.70919
 d = 1.06905

Bead 2713 (Rejected)

Date : Mon Oct 17 13:53:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

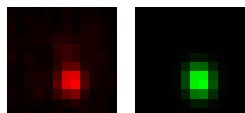Coordinates : 31.6 um (x), -78.6 um (y), 50.7 um (z)
Corresponding bead : Not found
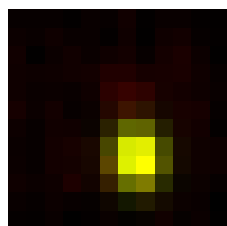Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	476 nm	495 nm	270 nm
max	580 nm	604 nm	270 nm
z	2.51 um	2.52 um	1.3 um
Asymmetry	0.82		
Theta	-83.1°		

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:
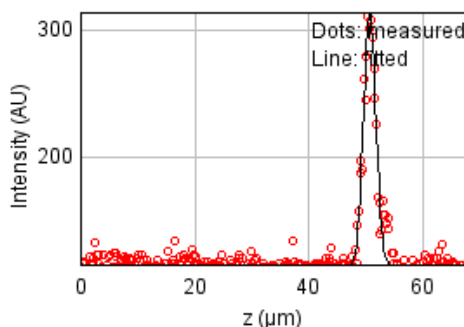 A = 446.326   (brightness)
 B = 126.363   (background)
 a = 0.590 px
 b = -0.023 px
 c = 0.401 px

xc = 6.534 px
yc = 7.561 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22405.1562
Standard deviation: 8.54289
R^2: 0.93627
Parameters:
 a = 113.44229
 b = 315.06400
 c = 50.74204
 d = 1.06423

Bead 2714

Date : Mon Oct 17 13:53:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
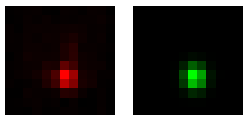Frame size : 12 pixels

Coordinates : 61.9 um (x), -93.0 um (y), 51.9 um (z)
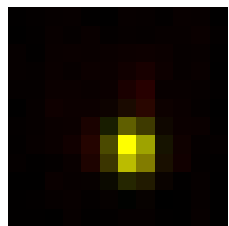Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	455 nm	473 nm	270 nm
z	1.93 um	1.93 um	1.3 um
Asymmetry	0.876		
Theta	-84.4°		

XY profile & fitting parameters :

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

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

Parameters:
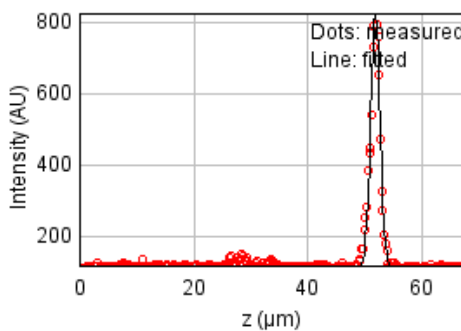 A = 818.322   (brightness)
 B = 128.409   (background)
 a = 0.844 px
 b = -0.019 px
 c = 0.651 px

xc = 6.238 px
yc = 7.269 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 68334.7412
Standard deviation: 14.91941
R^2: 0.97889
Parameters:
 a = 115.36479
 b = 824.02715
 c = 51.89721
 d = 0.81823

Bead 2715 (Rejected)

Date : Mon Oct 17 13:53:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

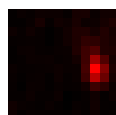Coordinates : 37.6 um (x), 90.5 um (y), 14.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

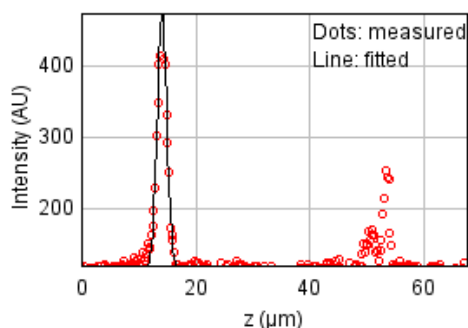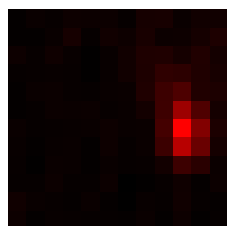| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 123287.022
Standard deviation: 20.03962
R^2: 0.86796
Parameters:
 a = 119.53217
 b = 476.54395
 c = 14.17024
 d = 0.82481

Bead 2716

Date : Mon Oct 17 13:53:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
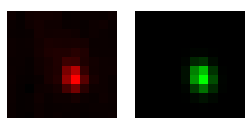Frame size : 12 pixels

Coordinates : 42.6 um (x), 87.3 um (y), 51.9 um (z)
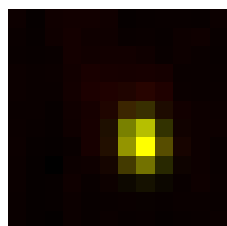Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	406 nm	270 nm
max	500 nm	521 nm	270 nm
z	1.89 um	1.9 um	1.3 um
Asymmetry	0.778		
Theta	-77.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 726.956   (brightness)
 B = 127.222   (background)
 a = 0.869 px
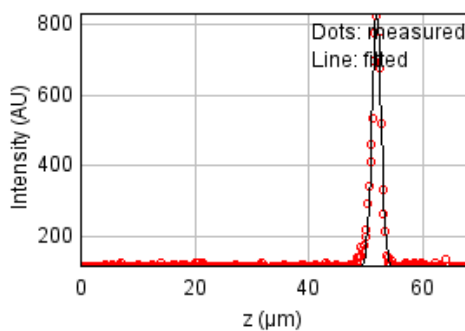 b = -0.072 px
 c = 0.551 px

xc = 6.788 px
yc = 6.737 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55655.7147
Standard deviation: 13.46436
R^2: 0.98291
Parameters:
 a = 113.79082
 b = 831.72611
 c = 51.93928
 d = 0.80470

Bead 2717

Date : Mon Oct 17 13:53:33 PDT 2022
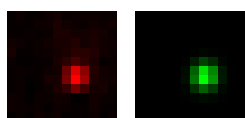Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -124 um (x), 67.1 um (y), 51.7 um (z)
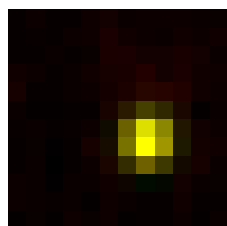Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	468 nm	270 nm
max	491 nm	511 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.915		
Theta	83.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 425.846   (brightness)
 B = 117.546   (background)
 a = 0.664 px
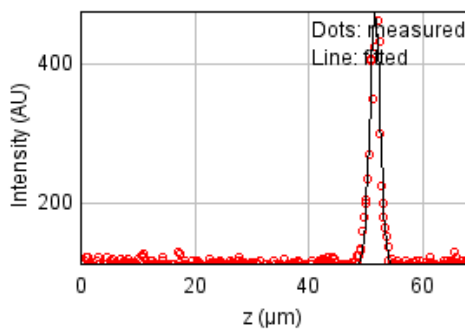 b = 0.012 px
 c = 0.558 px

xc = 7.112 px
yc = 6.618 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39318.1471
Standard deviation: 11.31690
R^2: 0.95930
Parameters:
 a = 111.84666
 b = 476.59069
 c = 51.65808
 d = 0.90770

Bead 2718

Date : Mon Oct 17 13:53:33 PDT 2022
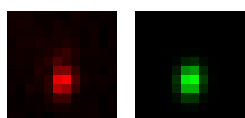Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 55.6 um (x), 65.9 um (y), 48.2 um (z)
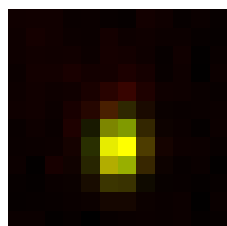Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	555 nm	578 nm	270 nm
z	2.02 um	2.02 um	1.3 um
Asymmetry	0.753		
Theta	84.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 477.094   (brightness)
 B = 122.820   (background)
 a = 0.766 px
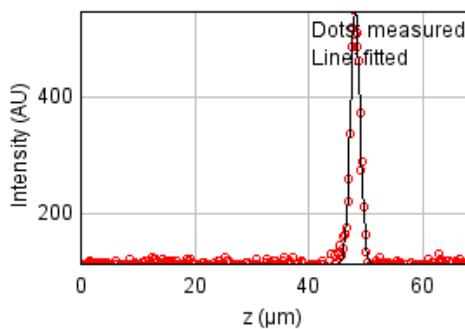 b = 0.032 px
 c = 0.439 px

xc = 5.547 px
yc = 7.106 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28750.0801
Standard deviation: 9.67721
R^2: 0.97738
Parameters:
 a = 113.55371
 b = 547.79429
 c = 48.19805
 d = 0.85585

Bead 2719 (Rejected)

Date : Mon Oct 17 13:53:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

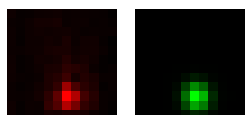Coordinates : -135 um (x), 52.9 um (y), 48.7 um (z)
Corresponding bead : Not found
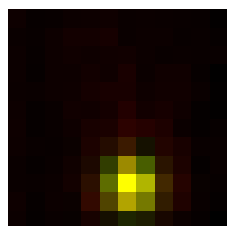Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	473 nm	492 nm	270 nm
max	506 nm	527 nm	270 nm
z	3.93 um	3.95 um	1.3 um
Asymmetry	0.935		
Theta	-75.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.931$

Parameters:
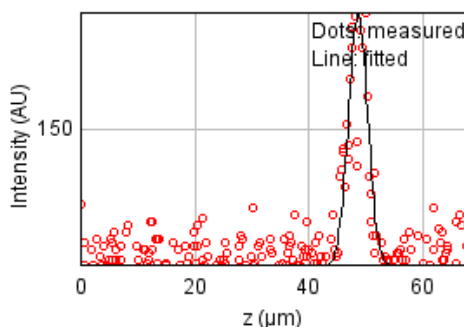 A = 505.606   (brightness)
 B = 124.414   (background)
 a = 0.595 px
 b = -0.019 px
 c = 0.529 px

xc = 6.215 px
yc = 9.091 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19991.4481
Standard deviation: 8.06962
R^2: 0.76507
Parameters:
 a = 111.02898
 b = 183.86176
 c = 48.69948
 d = 1.66909

Bead 2720 (Rejected)

Date : Mon Oct 17 13:53:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

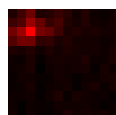Coordinates : 50.4 um (x), 44.1 um (y), 40.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

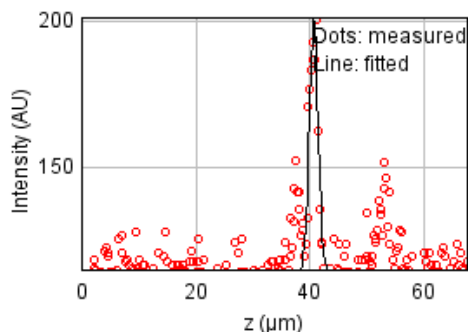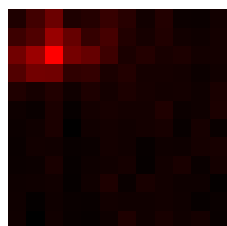| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	1.78 um	1.78 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 24021.0245
Standard deviation: 8.84559
R^2: 0.64572
Parameters:
 a = 114.86930
 b = 201.47966
 c = 40.74977
 d = 0.75420

Bead 2721

Date : Mon Oct 17 13:53:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
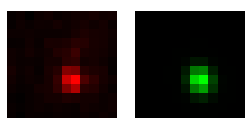Frame size : 12 pixels

Coordinates : -133 um (x), 41.9 um (y), 51.9 um (z)
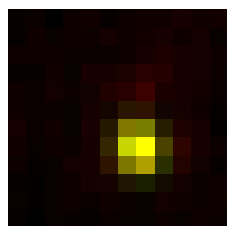Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	430 nm	270 nm
max	487 nm	507 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.847		
Theta	-73.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 391.020   (brightness)
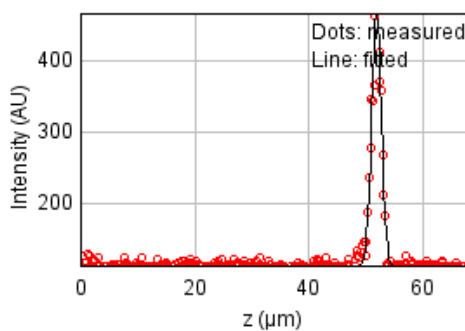 B = 119.488   (background)
 a = 0.772 px
 b = -0.059 px
 c = 0.583 px

xc = 6.622 px
yc = 7.063 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22119.2814
Standard deviation: 8.48821
R^2: 0.97420
Parameters:
 a = 112.23995
 b = 467.25023
 c = 51.92940
 d = 0.86135

Bead 2722

Date : Mon Oct 17 13:53:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
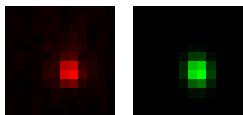Frame size : 12 pixels

Coordinates : -158 um (x), -8.84 um (y), 52.1 um (z)
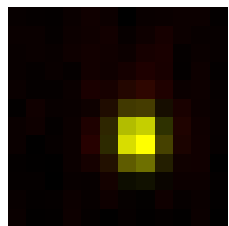Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	511 nm	533 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.822		
Theta	-83.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.956$

Parameters:
 A = 462.222   (brightness)
 B = 118.688   (background)
 a = 0.758 px
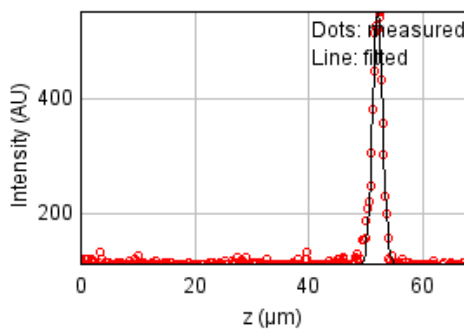 b = -0.026 px
 c = 0.516 px

  xc = 6.583 px
  yc = 6.679 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23609.6703
Standard deviation: 8.76952
R^2: 0.98240
Parameters:
 a = 111.00826
 b = 550.62071
 c = 52.10802
 d = 0.88752

Bead 2723

Date : Mon Oct 17 13:53:34 PDT 2022
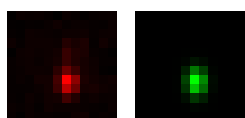Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -95.2 um (x), -13.8 um (y), 51.6 um (z)
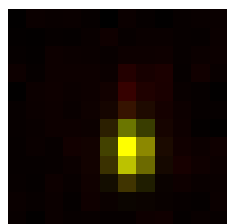Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	367 nm	382 nm	270 nm
max	506 nm	527 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.726		
Theta	-88.5°		

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 = 0.949

Parameters:
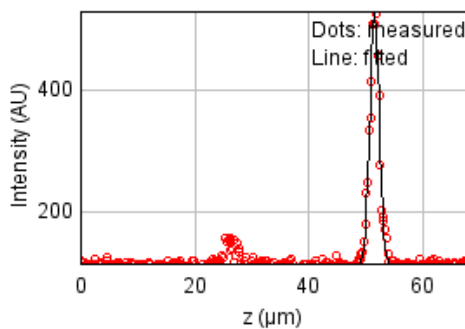A = 441.531   (brightness)
B = 119.198   (background)
a = 0.995 px
b = -0.012 px
c = 0.525 px

xc = 6.185 px
yc = 7.244 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36519.7130
Standard deviation: 10.90673
R^2: 0.96768
Parameters:
a = 114.86933
b = 532.04652
c = 51.57982
d = 0.81466

Bead 2724

Date : Mon Oct 17 13:53:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
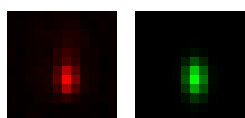Frame size : 12 pixels

Coordinates : 142 um (x), -25.6 um (y), 52.2 um (z)
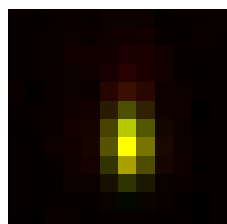Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	391 nm	270 nm
max	618 nm	644 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.607		
Theta	-88.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 819.997   (brightness)
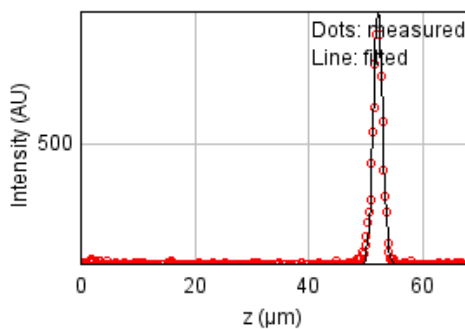 B = 123.762   (background)
 a = 0.954 px
 b = -0.021 px
 c = 0.352 px

xc = 6.082 px
yc = 6.853 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42311.9092
Standard deviation: 11.73984
R^2: 0.99005
Parameters:
 a = 111.11598
 b = 926.70622
 c = 52.17599
 d = 0.82046

Bead 2725

Date : Mon Oct 17 13:53:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
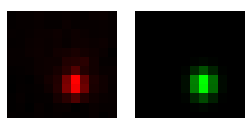Frame size : 12 pixels

Coordinates : -53.9 um (x), -74.6 um (y), 52.4 um (z)
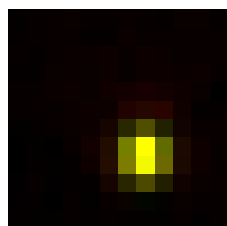Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	473 nm	493 nm	270 nm
z	1.93 um	1.93 um	1.3 um
Asymmetry	0.874		
Theta	89.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
A = 850.619 (brightness)
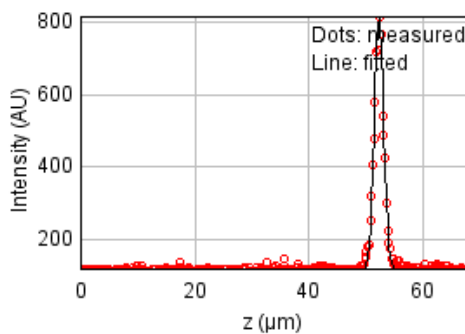B = 129.637 (background)
a = 0.784 px
b = 0.002 px
c = 0.599 px

xc = 6.945 px
yc = 7.479 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43520.6604
Standard deviation: 11.90635
R^2: 0.98609
Parameters:
a = 116.66601
b = 815.88075
c = 52.36600
d = 0.81814

Bead 2726

Date : Mon Oct 17 13:53:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
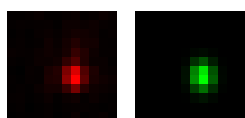Frame size : 12 pixels

Coordinates : 109 um (x), -93.7 um (y), 52.3 um (z)
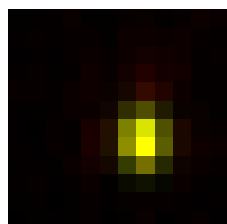Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	531 nm	553 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.772		
Theta	-88.1°		

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

$R^2 = 0.961$

Parameters:
 A = 767.367   (brightness)
 B = 123.845   (background)
 a = 0.799 px
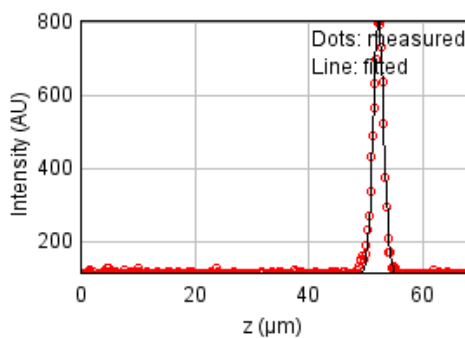 b = -0.011 px
 c = 0.477 px

xc = 6.860 px
yc = 6.618 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39099.8653
Standard deviation: 11.28544
R^2: 0.98879
Parameters:
 a = 111.44374
 b = 809.37826
 c = 52.26598
 d = 0.92357

Bead 2727 (Rejected)

Date : Mon Oct 17 13:53:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

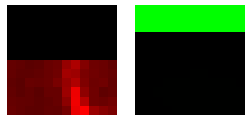Coordinates : 162 um (x), 96.4 um (y), 49.7 um (z)
Corresponding bead : Not found
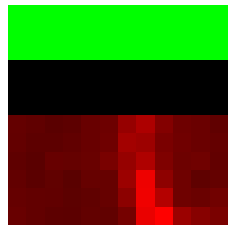Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.52 um	1.59 um	270 nm
max	3.14 um	3.28 um	270 nm
z	3.49 um	3.5 um	1.3 um
Asymmetry	0.485		
Theta	-6.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.794$

Parameters:
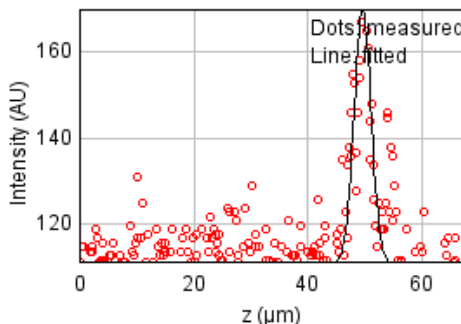 A = 199.733   (brightness)
 B = -10.152   (background)
 a = 0.014 px
 b = -0.005 px
 c = 0.057 px

xc = 7.105 px
yc = 9.496 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19442.2387
Standard deviation: 7.95800
R^2: 0.65688
Parameters:
 a = 111.35107
 b = 169.51891
 c = 49.65711
 d = 1.48000

Bead 2728

Date : Mon Oct 17 13:53:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
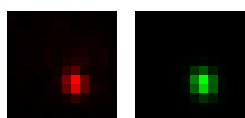Frame size : 12 pixels

Coordinates : -70.9 um (x), 89.1 um (y), 52.6 um (z)
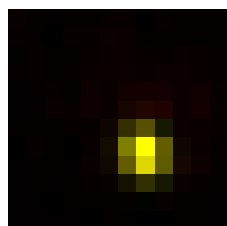Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	457 nm	476 nm	270 nm
z	1.79 um	1.8 um	1.3 um
Asymmetry	0.854		
Theta	-71.1°		

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:
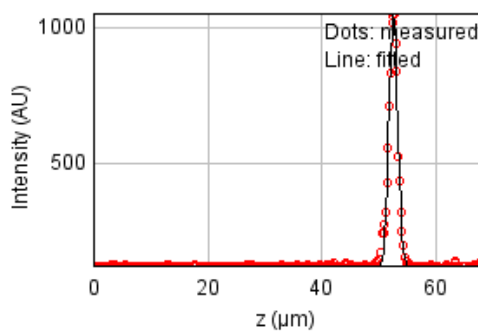A = 1018.513   (brightness)
B = 129.697   (background)
a = 0.857 px
b = -0.073 px
c = 0.669 px

xc = 6.937 px
yc = 7.359 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51310.2548
Standard deviation: 12.92805
R^2: 0.99023
Parameters:
a = 114.92503
b = 1055.53262
c = 52.60807
d = 0.75964

Bead 2729 (Rejected)

Date : Mon Oct 17 13:53:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 155 um (x), 53.6 um (y), 49.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

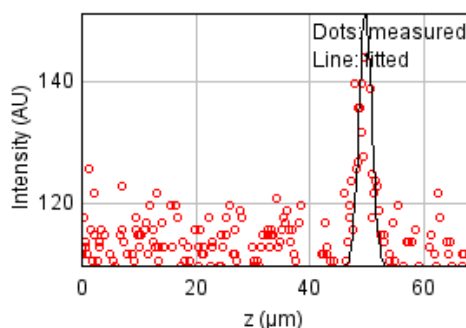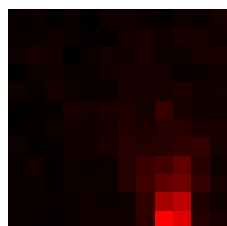| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	2.61 um	2.62 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 13845.9870
Standard deviation: 6.71572
R^2: 0.50945
Parameters:
 a = 109.86923
 b = 151.20445
 c = 49.80355
 d = 1.10895

Bead 2730

Date : Mon Oct 17 13:53:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
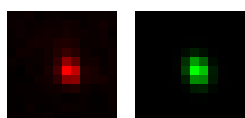Frame size : 12 pixels

Coordinates : -18.4 um (x), 25.4 um (y), 52.3 um (z)
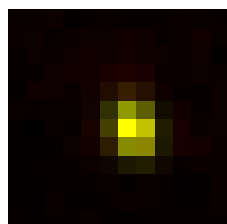Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	509 nm	531 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.771		
Theta	-70.1°		

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 = 636.496   (brightness)
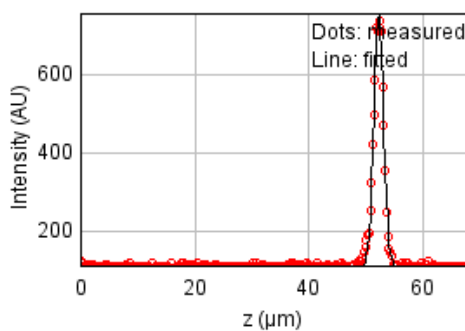 B = 125.970   (background)
 a = 0.829 px
 b = -0.113 px
 c = 0.558 px

xc = 6.341 px
yc = 6.023 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26387.7423
Standard deviation: 9.27111
R^2: 0.99031
Parameters:
 a = 113.78659
 b = 755.62612
 c = 52.30524
 d = 0.85051

Bead 2731

Date : Mon Oct 17 13:53:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
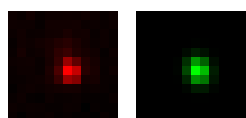Frame size : 12 pixels

Coordinates : -90.1 um (x), -9.35 um (y), 52.1 um (z)
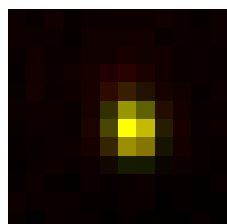Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	498 nm	519 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.819		
Theta	-76.3°		

XY profile & fitting parameters :

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

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

Parameters:
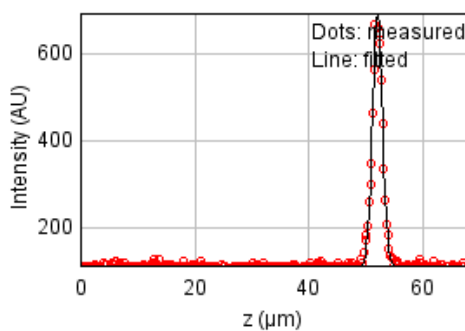 A = 583.070   (brightness)
 B = 122.590   (background)
 a = 0.791 px
 b = -0.061 px
 c = 0.556 px

xc = 6.305 px
yc = 6.012 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21087.0704
Standard deviation: 8.28779
R^2: 0.99074
Parameters:
 a = 113.22495
 b = 694.68168
 c = 52.08960
 d = 0.86803

Bead 2732

Date : Mon Oct 17 13:53:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
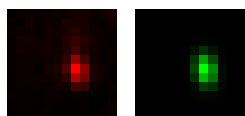Frame size : 12 pixels

Coordinates : 123 um (x), -25.0 um (y), 52.0 um (z)
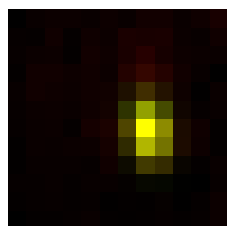Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	372 nm	387 nm	270 nm
max	586 nm	610 nm	270 nm
z	1.99 um	2.0 um	1.3 um
Asymmetry	0.635		
Theta	-82.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 471.861   (brightness)
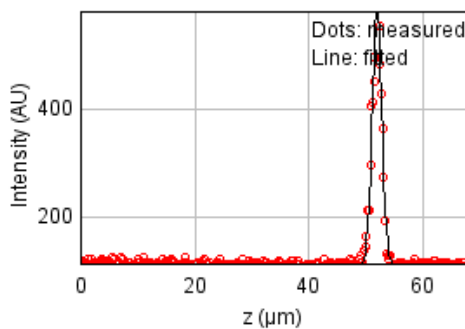 B = 121.544   (background)
 a = 0.959 px
 b = -0.078 px
 c = 0.401 px

xc = 7.191 px
yc = 6.113 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26430.0518
Standard deviation: 9.27854
R^2: 0.98219
Parameters:
 a = 111.73788
 b = 584.85778
 c = 52.01500
 d = 0.84549

Bead 2733

Date : Mon Oct 17 13:53:36 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
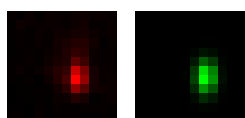Frame size : 12 pixels

Coordinates : 143 um (x), -47.1 um (y), 52.4 um (z)
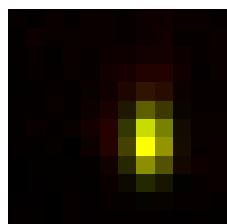Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	390 nm	270 nm
max	613 nm	639 nm	270 nm
z	2.08 um	2.08 um	1.3 um
Asymmetry	0.611		
Theta	89.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 741.601   (brightness)
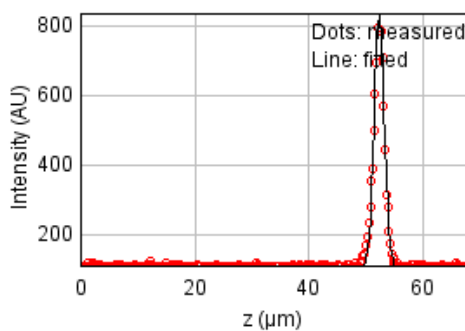 B = 124.840   (background)
 a = 0.956 px
 b = 0.009 px
 c = 0.357 px

xc = 7.217 px
yc = 6.696 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28566.0794
Standard deviation: 9.64620
R^2: 0.99199
Parameters:
 a = 111.63819
 b = 834.15444
 c = 52.41144
 d = 0.88171

Bead 2734

Date : Mon Oct 17 13:53:36 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
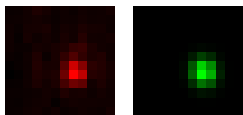Frame size : 12 pixels

Coordinates : -149 um (x), -72.9 um (y), 52.1 um (z)
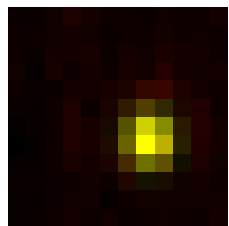Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	468 nm	270 nm
max	517 nm	538 nm	270 nm
z	2.27 um	2.28 um	1.3 um
Asymmetry	0.87		
Theta	-83.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.951$

Parameters:
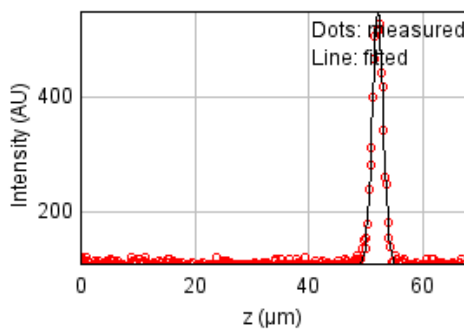A = 424.085   (brightness)
B = 120.507   (background)
a = 0.662 px
b = -0.020 px
c = 0.505 px

xc = 7.210 px
yc = 6.702 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16182.7628
Standard deviation: 7.26034
R^2: 0.98874
Parameters:
 a = 110.44893
 b = 549.82021
 c = 52.13900
 d = 0.96237

Bead 2735

Date : Mon Oct 17 13:53:36 PDT 2022
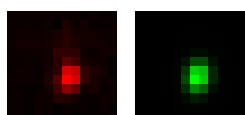Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -123 um (x), -81.9 um (y), 52.1 um (z)
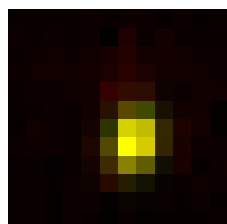Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	563 nm	586 nm	270 nm
z	2.57 um	2.58 um	1.3 um
Asymmetry	0.749		
Theta	79.6°		

XY profile & fitting parameters :

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

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

Parameters:
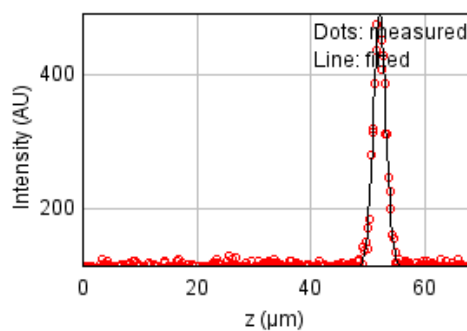A = 476.727   (brightness)
B = 119.475   (background)
a = 0.743 px
b = 0.059 px
c = 0.434 px

xc = 6.372 px
yc = 6.674 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23891.8143
Standard deviation: 8.82176
R^2: 0.98057
Parameters:
a = 112.03010
b = 493.37472
c = 52.11705
d = 1.09132

Bead 2736

Date : Mon Oct 17 13:53:36 PDT 2022
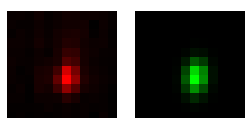Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 114 um (x), -90.7 um (y), 52.4 um (z)
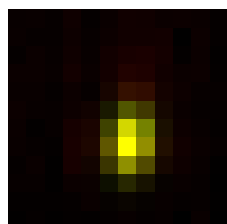Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	417 nm	270 nm
max	603 nm	628 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.665		
Theta	84.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 713.102   (brightness)
 B = 125.278   (background)
 a = 0.832 px
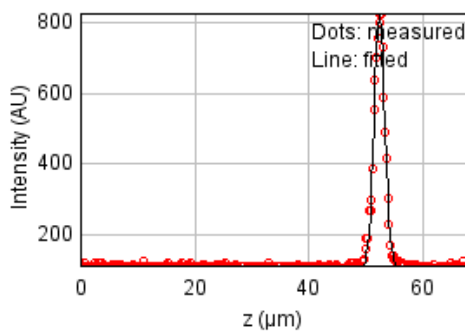 b = 0.042 px
 c = 0.373 px

xc = 6.162 px
yc = 6.714 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29408.9904
Standard deviation: 9.78748
R^2: 0.99195
Parameters:
 a = 111.65378
 b = 826.33643
 c = 52.44502
 d = 0.92591

Bead 2737

Date : Mon Oct 17 13:53:37 PDT 2022
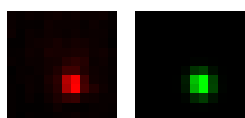Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 18.4 um (x), 82.5 um (y), 52.8 um (z)
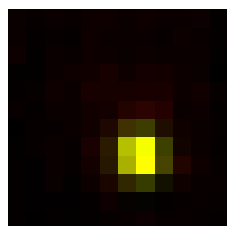Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	434 nm	452 nm	270 nm
z	1.89 um	1.89 um	1.3 um
Asymmetry	0.916		
Theta	-72.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.962$

Parameters:
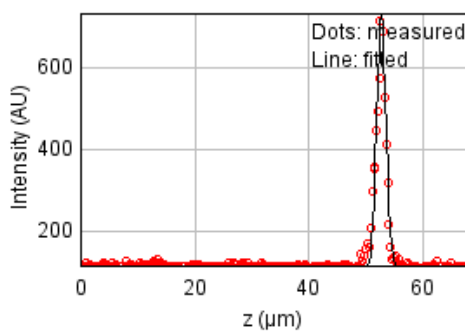A = 802.606 (brightness)
B = 127.252 (background)
a = 0.837 px
b = -0.039 px
c = 0.723 px

xc = 6.693 px
yc = 7.478 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 67416.3664
Standard deviation: 14.81882
R^2: 0.97198
Parameters:
a = 115.11094
b = 730.08384
c = 52.77230
d = 0.80119

Bead 2738

Date : Mon Oct 17 13:53:37 PDT 2022
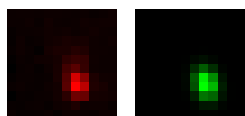Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -76.5 um (x), 73.9 um (y), 52.2 um (z)
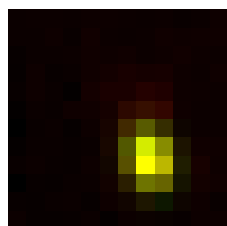Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	571 nm	595 nm	270 nm
z	1.84 um	1.84 um	1.3 um
Asymmetry	0.729		
Theta	-75.0°		

XY profile & fitting parameters :

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

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

Parameters:
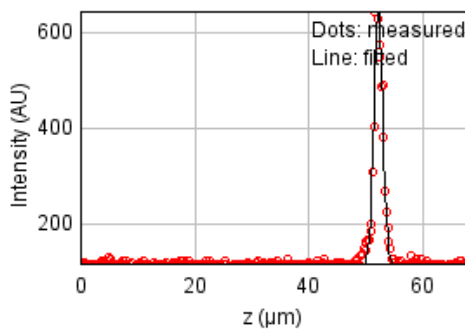 A = 659.904   (brightness)
 B = 122.864   (background)
 a = 0.749 px
 b = -0.091 px
 c = 0.436 px

xc = 7.233 px
yc = 7.642 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 61702.0866
Standard deviation: 14.17688
R^2: 0.96557
Parameters:
 a = 114.50544
 b = 650.42279
 c = 52.24725
 d = 0.77960

Bead 2739 (Rejected)

Date : Mon Oct 17 13:53:37 PDT 2022
Origin : data_traditional.tif   (Nikon 40x0.95 air)
Frame size : 12 pixels

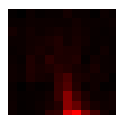Coordinates : 161 um (x), 47.8 um (y), 49.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

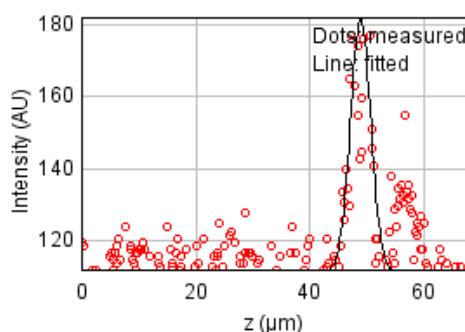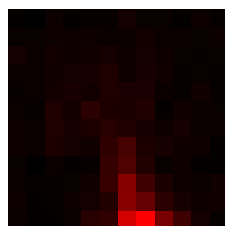| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	4.14 um	4.15 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29856.2558
Standard deviation: 9.86162
R^2: 0.67751
Parameters:
 a = 111.96668
 b = 181.82525
 c = 48.95166
 d = 1.75672

Bead 2740

Date : Mon Oct 17 13:53:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
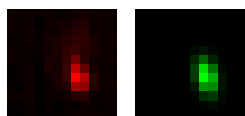Frame size : 12 pixels

Coordinates : 141 um (x), 47.7 um (y), 52.6 um (z)
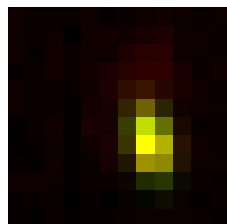Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	363 nm	378 nm	270 nm
max	658 nm	685 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.552		
Theta	-77.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.930$

Parameters:
A = 507.265 (brightness)
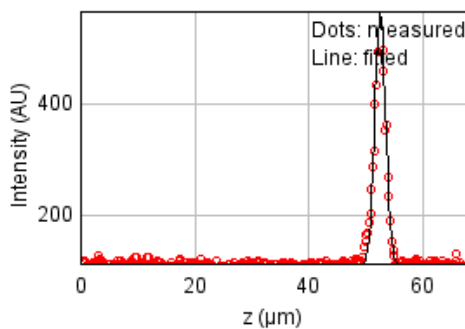B = 126.035 (background)
a = 0.986 px
b = -0.153 px
c = 0.345 px

xc = 7.282 px
yc = 6.821 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25315.3602
Standard deviation: 9.08077
R^2: 0.98338
Parameters:
a = 110.81838
b = 566.28847
c = 52.56966
d = 0.94285

Bead 2741 (Rejected)

Date : Mon Oct 17 13:53:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

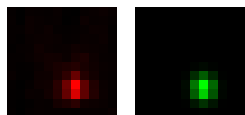Coordinates : 13.0 um (x), 28.2 um (y), 48.5 um (z)
Corresponding bead : Not found
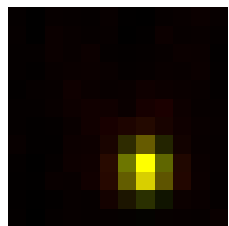Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	465 nm	484 nm	270 nm
z	2.39 um	2.4 um	1.3 um
Asymmetry	0.856		
Theta	-87.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 797.294   (brightness)
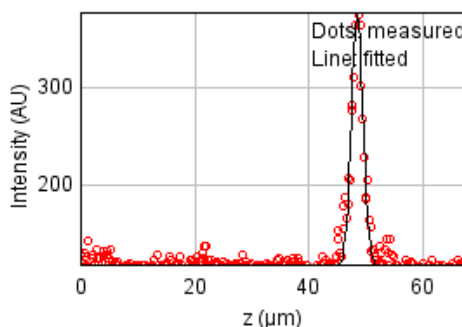 B = 126.788   (background)
 a = 0.848 px
 b = -0.010 px
 c = 0.621 px

xc = 6.960 px
yc = 8.328 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33175.2728
Standard deviation: 10.39532
R^2: 0.94098
Parameters:
 a = 116.50329
 b = 377.90181
 c = 48.54745
 d = 1.01466

Bead 2742

Date : Mon Oct 17 13:53:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
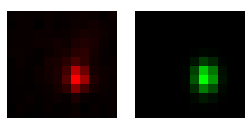Frame size : 12 pixels

Coordinates : 57.7 um (x), 15.1 um (y), 52.8 um (z)
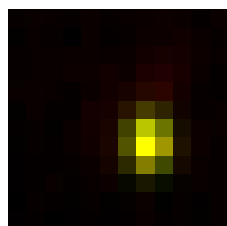Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	419 nm	270 nm
max	527 nm	549 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.764		
Theta	89.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.955$

Parameters:
A = 826.062   (brightness)
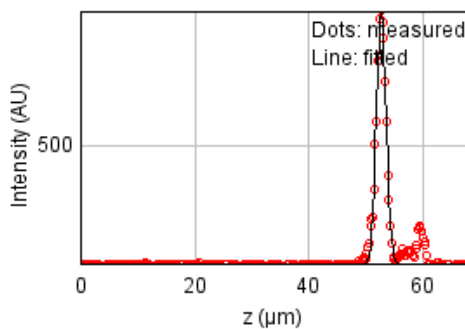B = 129.036   (background)
a = 0.828 px
b = 0.001 px
c = 0.484 px

xc = 7.176 px
yc = 6.759 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 140166.258
Standard deviation: 21.36744
R^2: 0.96841
Parameters:
a = 118.42815
b = 929.33128
c = 52.75893
d = 0.84879

Bead 2743

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
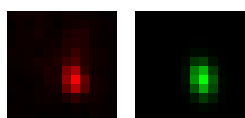Frame size : 12 pixels

Coordinates : 120 um (x), 6.29 um (y), 52.7 um (z)
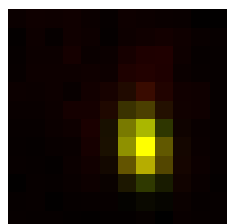Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	621 nm	646 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.648		
Theta	-80.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
A = 618.394   (brightness)
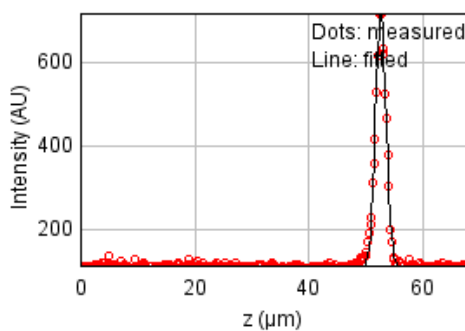B = 126.230   (background)
a = 0.815 px
b = -0.082 px
c = 0.363 px

xc = 6.839 px
yc = 6.927 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27239.7089
Standard deviation: 9.41959
R^2: 0.98963
Parameters:
a = 111.27381
b = 717.83062
c = 52.67721
d = 0.92182

Bead 2744

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
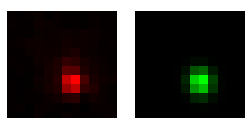Frame size : 12 pixels

Coordinates : -53.5 um (x), 935 nm (y), 53.0 um (z)
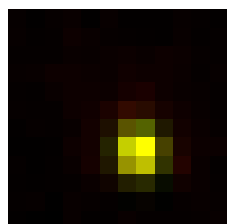Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	466 nm	486 nm	270 nm
z	1.76 um	1.77 um	1.3 um
Asymmetry	0.883		
Theta	-81.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.964$

Parameters:
A = 880.670   (brightness)
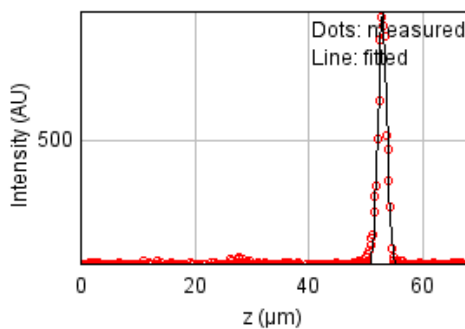B = 128.921   (background)
a = 0.788 px
b = -0.026 px
c = 0.621 px

xc = 6.642 px
yc = 7.251 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 50884.9717
Standard deviation: 12.87436
R^2: 0.98587
Parameters:
a = 114.51819
b = 898.25851
c = 52.97495
d = 0.74654

Bead 2745

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
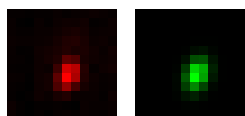Frame size : 12 pixels

Coordinates : -9.84 um (x), -32.4 nm (y), 52.4 um (z)
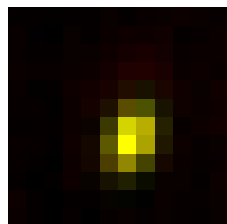Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	602 nm	627 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.682		
Theta	71.6°		

XY profile & fitting parameters :

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

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

Parameters:
A = 748.588 (brightness)
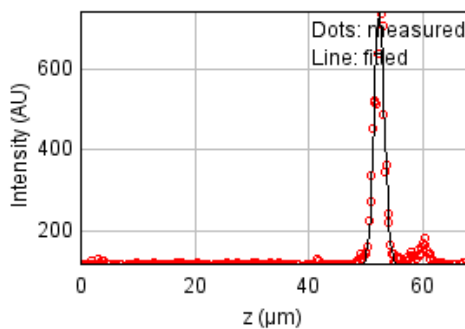B = 132.194 (background)
a = 0.753 px
b = 0.127 px
c = 0.412 px

xc = 6.259 px
yc = 6.647 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 101122.928
Standard deviation: 18.14912
R^2: 0.96427
Parameters:
a = 115.71811
b = 743.92104
c = 52.41996
d = 0.90084

Bead 2746 (Rejected)

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

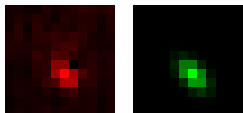Coordinates : -159 um (x), -19.7 um (y), 51.7 um (z)
Corresponding bead : Not found
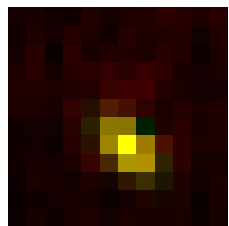Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	368 nm	383 nm	270 nm
max	636 nm	663 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.578		
Theta	-46.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.875$

Parameters:
A = 247.355   (brightness)
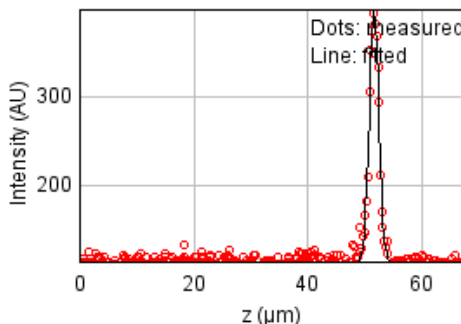B = 115.899   (background)
a = 0.680 px
b = -0.330 px
c = 0.645 px

xc = 6.033 px
yc = 7.111 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20749.2080
Standard deviation: 8.22113
R^2: 0.96296
Parameters:
a = 111.58328
b = 400.15525
c = 51.66696
d = 0.84106

Bead 2747

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
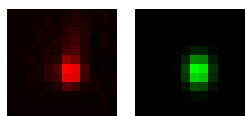Frame size : 12 pixels

Coordinates : 104 um (x), -20.0 um (y), 52.6 um (z)
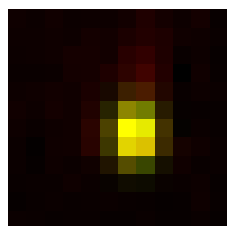Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	432 nm	450 nm	270 nm
max	570 nm	594 nm	270 nm
z	2.33 um	2.34 um	1.3 um
Asymmetry	0.757		
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 = 0.939

Parameters:
 A = 619.140   (brightness)
 B = 126.558   (background)
 a = 0.720 px
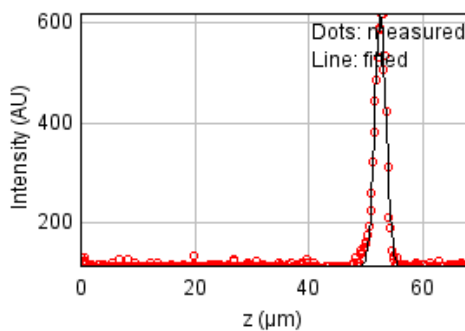 b = 0.002 px
 c = 0.413 px

xc = 6.437 px
yc = 6.272 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36400.2671
Standard deviation: 10.88888
R^2: 0.98156
Parameters:
 a = 112.72964
 b = 619.26684
 c = 52.60843
 d = 0.98855

Bead 2748

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
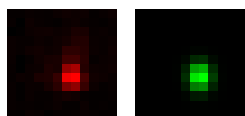Frame size : 12 pixels

Coordinates : 38.8 um (x), -29.1 um (y), 52.5 um (z)
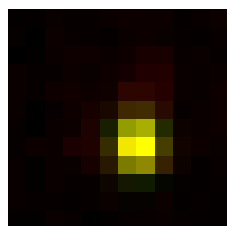Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	515 nm	537 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.813		
Theta	89.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 566.452   (brightness)
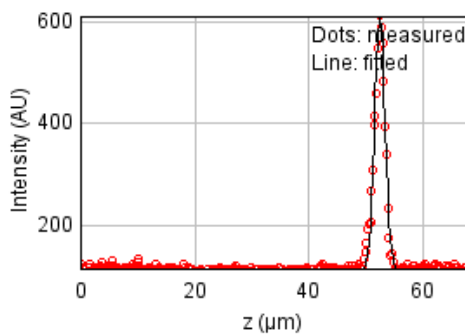 B = 123.076   (background)
 a = 0.765 px
 b = 0.002 px
 c = 0.505 px

xc = 6.567 px
yc = 6.875 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28957.5889
Standard deviation: 9.71207
R^2: 0.98349
Parameters:
 a = 113.39610
 b = 611.99068
 c = 52.50128
 d = 0.90426

Bead 2749

Date : Mon Oct 17 13:53:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
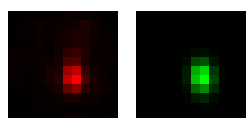Frame size : 12 pixels

Coordinates : 118 um (x), -40.3 um (y), 52.6 um (z)
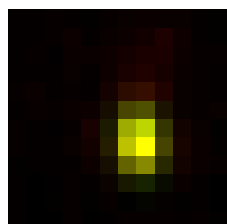Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	584 nm	608 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.699		
Theta	-86.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 702.416   (brightness)
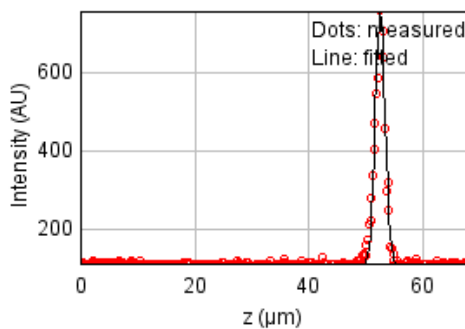B = 124.603   (background)
a = 0.804 px
b = -0.027 px
c = 0.395 px

xc = 6.663 px
yc = 6.701 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 50652.4443
Standard deviation: 12.84491
R^2: 0.98204
Parameters:
a = 111.39485
b = 758.05130
c = 52.57550
d = 0.86082

Bead 2750

Date : Mon Oct 17 13:53:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
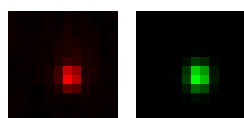Frame size : 12 pixels

Coordinates : -38.2 um (x), -77.9 um (y), 52.3 um (z)
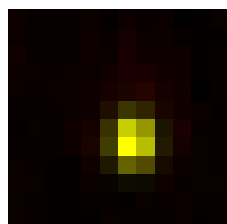Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	480 nm	499 nm	270 nm
z	2.26 um	2.27 um	1.3 um
Asymmetry	0.823		
Theta	-88.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
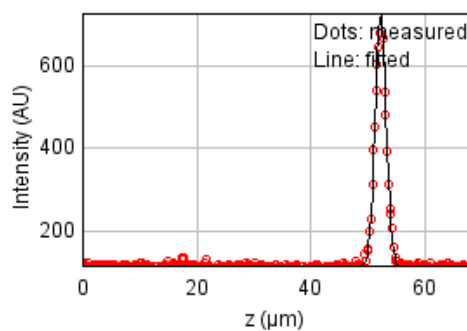A = 755.238   (brightness)
B = 124.886   (background)
a = 0.862 px
b = -0.006 px
c = 0.584 px

xc = 6.324 px
yc = 6.687 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24725.2778
Standard deviation: 8.97432
R^2: 0.99119
Parameters:
 a = 113.55005
 b = 728.57742
 c = 52.29794
 d = 0.96149

Bead 2751 (Rejected)

Date : Mon Oct 17 13:53:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

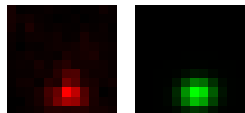Coordinates : 16.1 um (x), -80.9 um (y), 49.2 um (z)
Corresponding bead : Not found
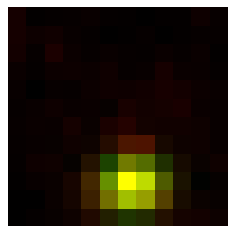Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	510 nm	531 nm	270 nm
max	607 nm	633 nm	270 nm
z	2.95 um	2.96 um	1.3 um
Asymmetry	0.84		
Theta	6.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.915$

Parameters:
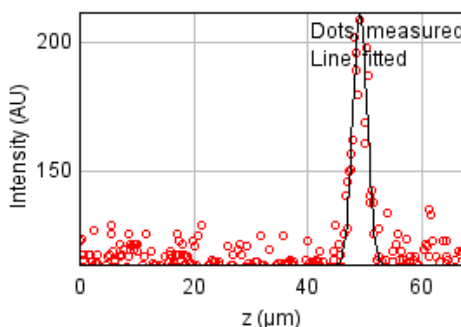 A = 349.675   (brightness)
 B = 125.487   (background)
 a = 0.365 px
 b = 0.016 px
 c = 0.514 px

xc = 6.280 px
yc = 9.207 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18761.0115
Standard deviation: 7.81734
R^2: 0.82884
Parameters:
 a = 113.29889
 b = 211.43887
 c = 49.21295
 d = 1.25287

Bead 2752

Date : Mon Oct 17 13:53:39 PDT 2022
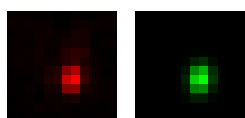Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 37.3 um (x), -82.4 um (y), 52.4 um (z)
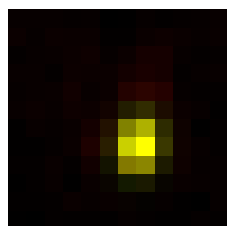Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	518 nm	540 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.756		
Theta	82.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.965$

Parameters:
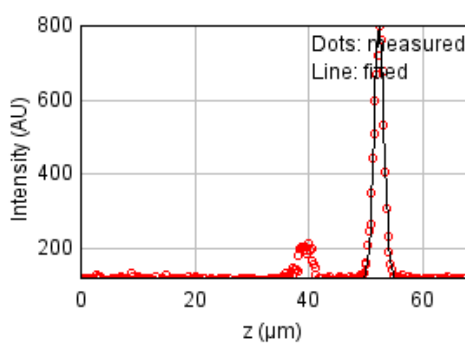A = 755.068   (brightness)
B = 128.779   (background)
a = 0.865 px
b = 0.052 px
c = 0.506 px

xc = 6.625 px
yc = 6.901 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 119997.576
Standard deviation: 19.77047
R^2: 0.96302
Parameters:
a = 118.80545
b = 801.33900
c = 52.37770
d = 0.87235

Bead 2753

Date : Mon Oct 17 13:53:39 PDT 2022
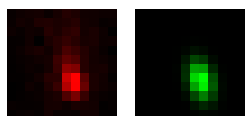Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 147 um (x), 74.2 um (y), 52.7 um (z)
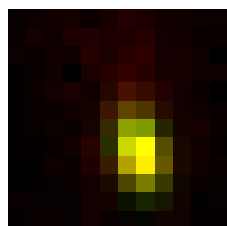Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	453 nm	270 nm
max	719 nm	749 nm	270 nm
z	2.02 um	2.02 um	1.3 um
Asymmetry	0.605		
Theta	-76.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.914$

Parameters:
A = 411.770   (brightness)
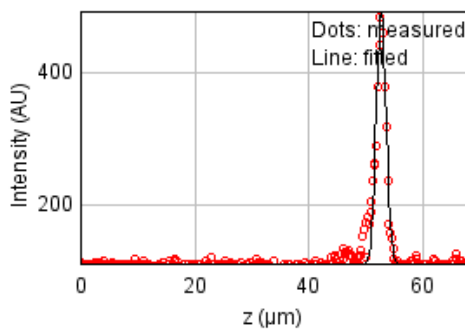B = 121.579   (background)
a = 0.684 px
b = -0.103 px
c = 0.284 px

xc = 6.663 px
yc = 7.245 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 46023.1527
Standard deviation: 12.24388
R^2: 0.95390
Parameters:
a = 111.67988
b = 491.92279
c = 52.74408
d = 0.85578

Bead 2754

Date : Mon Oct 17 13:53:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
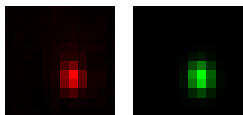Frame size : 12 pixels

Coordinates : -97.0 um (x), 71.8 um (y), 53.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	530 nm	552 nm	270 nm
z	1.78 um	1.78 um	1.3 um
Asymmetry	0.777		
Theta	-86.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 841.921   (brightness)
 B = 126.241   (background)
 a = 0.791 px
 b = -0.021 px
 c = 0.480 px

xc = 6.877 px
yc = 7.299 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 54616.7413
Standard deviation: 13.33809
R^2: 0.98693
Parameters:
 a = 115.03354
 b = 955.36434
 c = 53.04899
 d = 0.75457

Bead 2755

Date : Mon Oct 17 13:53:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -98.6 um (x), 17.7 um (y), 53.0 um (z)
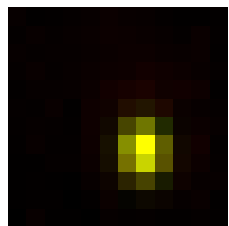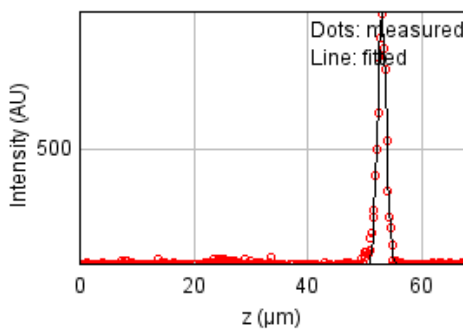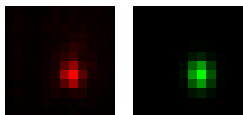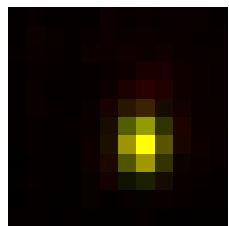Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	418 nm	270 nm
max	513 nm	535 nm	270 nm
z	2.02 um	2.02 um	1.3 um
Asymmetry	0.783		
Theta	-87.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.958$

Parameters:
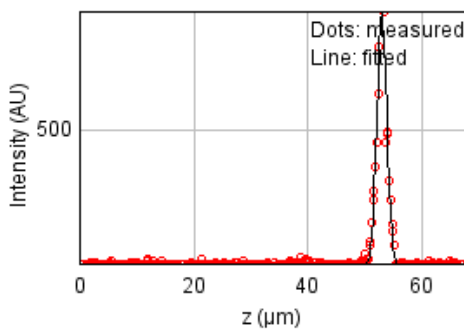A = 746.057   (brightness)
B = 124.968   (background)
a = 0.831 px
b = -0.016 px
c = 0.510 px

xc = 6.829 px
yc = 6.983 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 87848.1322
Standard deviation: 16.91598
R^2: 0.97549
Parameters:
a = 113.72887
b = 842.15100
c = 53.03890
d = 0.85614

Bead 2756

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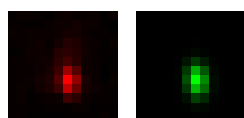Frame size : 12 pixels

Coordinates : 127 um (x), 4.94 um (y), 52.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	602 nm	627 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.64		
Theta	-85.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.956$

Parameters:
 A = 627.274   (brightness)
 B = 124.243   (background)
 a = 0.900 px
 b = -0.040 px
 c = 0.373 px

xc = 6.156 px
yc = 7.054 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 38519.7366
Standard deviation: 11.20140
R^2: 0.98511
Parameters:
 a = 111.57343
 b = 730.99684
 c = 52.88500
 d = 0.86367

Bead 2757

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

Coordinates : -136 um (x), 4.66 um (y), 52.9 um (z)
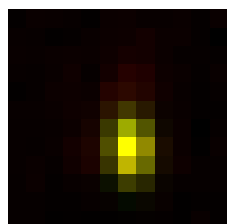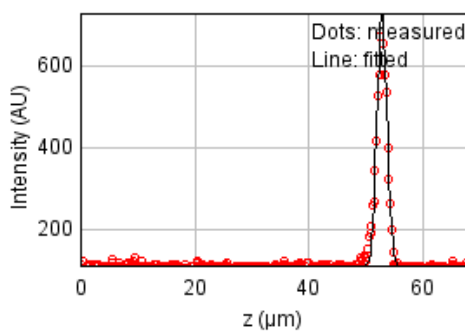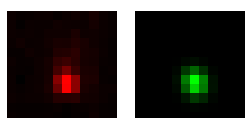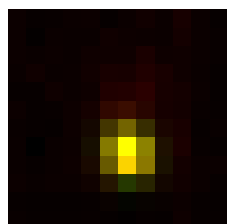Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	497 nm	517 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.863		
Theta	-70.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 625.971   (brightness)
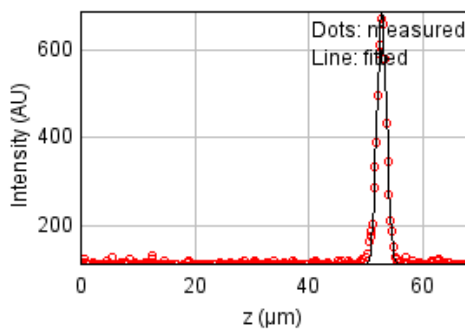 B = 122.189   (background)
 a = 0.709 px
 b = -0.059 px
 c = 0.564 px

xc = 6.048 px
yc = 7.334 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26763.4588
Standard deviation: 9.33688
R^2: 0.98758
Parameters:
 a = 112.45464
 b = 688.47288
 c = 52.85724
 d = 0.83208

Bead 2758

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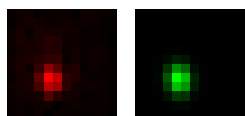Frame size : 12 pixels

Coordinates : -119 um (x), 729 nm (y), 49.1 um (z)
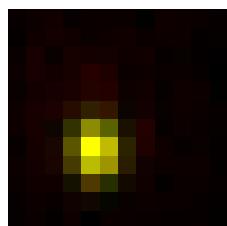Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	549 nm	572 nm	270 nm
z	2.22 um	2.22 um	1.3 um
Asymmetry	0.795		
Theta	-83.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.956$

Parameters:
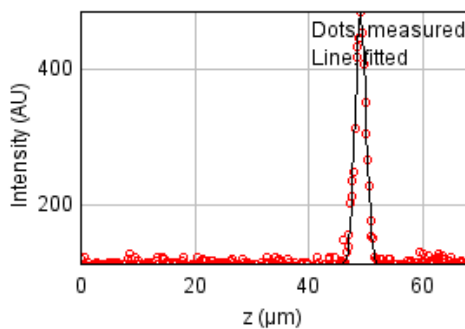 A = 387.162   (brightness)
 B = 119.859   (background)
 a = 0.702 px
 b = -0.028 px
 c = 0.448 px

xc = 4.289 px
yc = 7.184 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19707.2165
Standard deviation: 8.01205
R^2: 0.98057
Parameters:
 a = 113.26146
 b = 484.79209
 c = 49.12085
 d = 0.94079

Bead 2759

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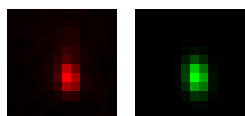Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 159 um (x), 353 nm (y), 53.0 um (z)
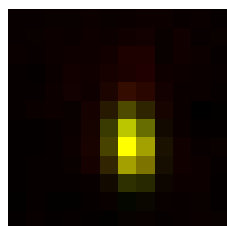Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	615 nm	641 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.625		
Theta	-83.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.963$

Parameters:
A = 831.840   (brightness)
B = 126.995   (background)
a = 0.901 px
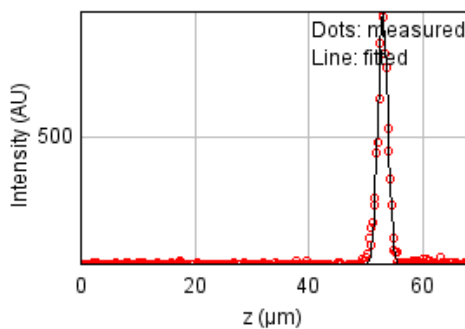b = -0.066 px
c = 0.363 px

xc = 6.235 px
yc = 6.897 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 45955.8054
Standard deviation: 12.23492
R^2: 0.98835
Parameters:
a = 111.68414
b = 879.71336
c = 53.03994
d = 0.85870

Bead 2760 (Rejected)

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

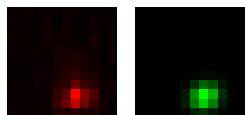Coordinates : -106 um (x), -3.7 um (y), 49.4 um (z)
Corresponding bead : Not found
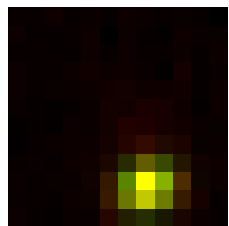Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	453 nm	472 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.89 um	2.9 um	1.3 um
Asymmetry	0.856		
Theta	24.5°		

XY profile & fitting parameters :

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

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

Parameters:
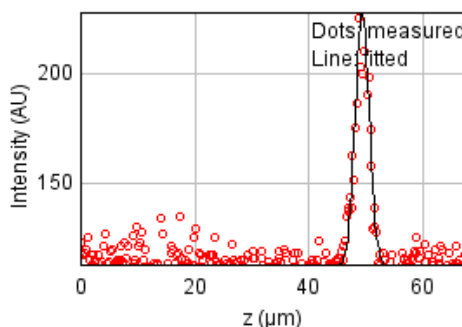A = 478.952   (brightness)
B = 122.842   (background)
a = 0.509 px
b = 0.066 px
c = 0.623 px

xc = 7.106 px
yc = 9.297 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18433.4992
Standard deviation: 7.74880
R^2: 0.87233
Parameters:
a = 112.10926
b = 228.72419
c = 49.40725
d = 1.22855

Bead 2761

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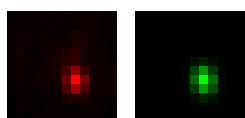Frame size : 12 pixels

Coordinates : -11.2 um (x), -8.92 um (y), 52.7 um (z)
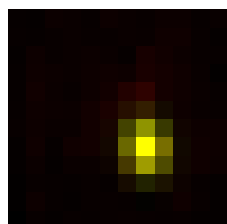Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	407 nm	270 nm
max	513 nm	534 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.762		
Theta	-81.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.963$

Parameters:
 A = 629.519   (brightness)
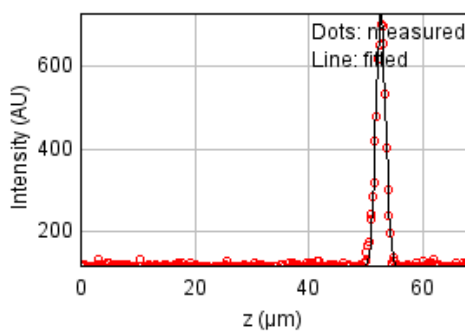 B = 125.500   (background)
 a = 0.872 px
 b = -0.056 px
 c = 0.519 px

xc = 7.018 px
yc = 7.029 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31473.5606
Standard deviation: 10.12520
R^2: 0.98743
Parameters:
 a = 114.68054
 b = 732.19418
 c = 52.68262
 d = 0.84189

Bead 2762

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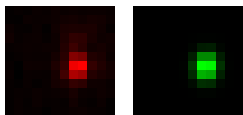Frame size : 12 pixels

Coordinates : -70.1 um (x), -10.3 um (y), 52.5 um (z)
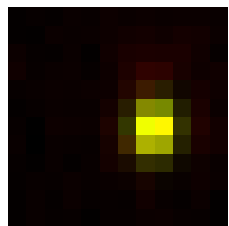Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	523 nm	545 nm	270 nm
z	2.13 um	2.13 um	1.3 um
Asymmetry	0.791		
Theta	86.6°		

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:
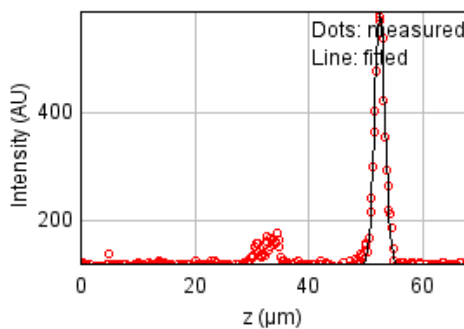 A = 559.662   (brightness)
 B = 122.975   (background)
 a = 0.782 px
 b = 0.017 px
 c = 0.491 px

xc = 7.476 px
yc = 6.114 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 59017.6659
Standard deviation: 13.86506
R^2: 0.96307
Parameters:
 a = 117.62630
 b = 588.97182
 c = 52.50364
 d = 0.90256

Bead 2763

Date : Mon Oct 17 13:53:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
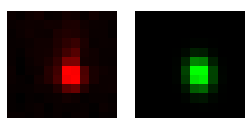Frame size : 12 pixels

Coordinates : 138 um (x), -11.0 um (y), 53.0 um (z)
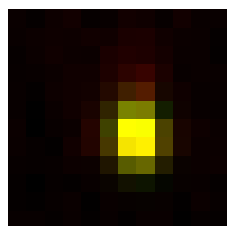Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	445 nm	463 nm	270 nm
max	587 nm	611 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.758		
Theta	-84.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.953$

Parameters:
A = 629.453   (brightness)
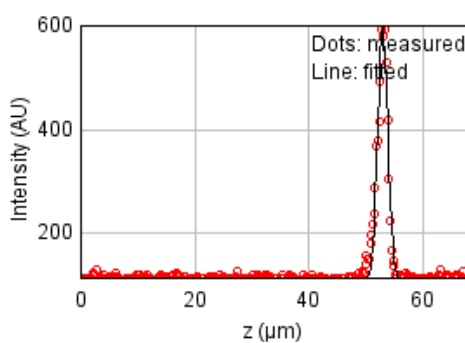B = 123.591   (background)
a = 0.676 px
b = -0.026 px
c = 0.392 px

xc = 6.513 px
yc = 6.387 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43078.8129
Standard deviation: 11.84575
R^2: 0.97399
Parameters:
a = 111.97842
b = 601.46353
c = 53.01862
d = 0.87566

Bead 2764

Date : Mon Oct 17 13:53:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
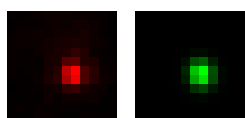Frame size : 12 pixels

Coordinates : -84.8 um (x), -13.8 um (y), 53.4 um (z)
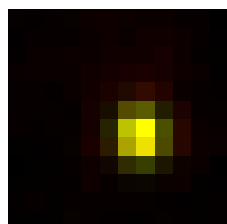Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	485 nm	505 nm	270 nm
z	1.77 um	1.78 um	1.3 um
Asymmetry	0.888		
Theta	-82.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.961$

Parameters:
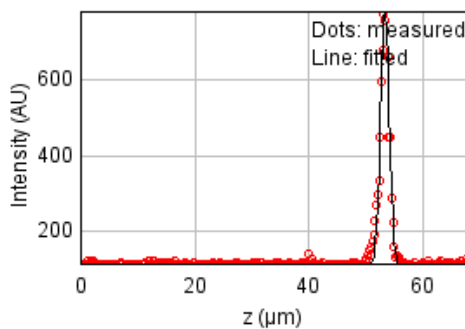A = 734.164   (brightness)
B = 124.168   (background)
a = 0.720 px
b = -0.021 px
c = 0.573 px

xc = 6.700 px
yc = 6.377 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51271.7145
Standard deviation: 12.92319
R^2: 0.98063
Parameters:
 a = 113.87510
 b = 781.47609
 c = 53.39306
 d = 0.75231

Bead 2765

Date : Mon Oct 17 13:53:41 PDT 2022
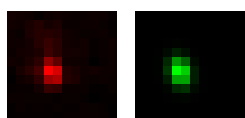Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 91.2 um (x), -30.7 um (y), 34.3 um (z)
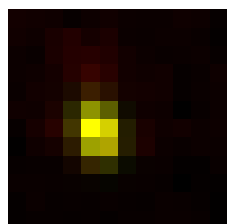Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	530 nm	552 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.723		
Theta	-74.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 445.460   (brightness)
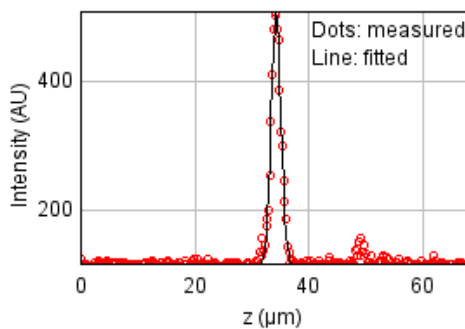 B = 120.057   (background)
 a = 0.881 px
 b = -0.113 px
 c = 0.509 px

 xc = 4.400 px
 yc = 6.134 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24322.7151
Standard deviation: 8.90096
R^2: 0.97695
Parameters:
 a = 114.20179
 b = 510.78208
 c = 34.33175
 d = 0.85135

Bead 2766

Date : Mon Oct 17 13:53:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
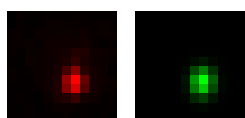Frame size : 12 pixels

Coordinates : -9.93 um (x), -34.5 um (y), 52.9 um (z)
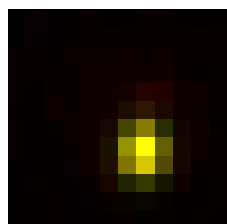Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	524 nm	546 nm	270 nm
z	1.95 um	1.95 um	1.3 um
Asymmetry	0.797		
Theta	88.1°		

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:
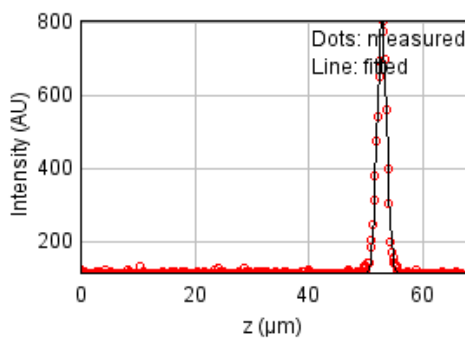A = 757.845   (brightness)
B = 123.907   (background)
a = 0.769 px
b = 0.009 px
c = 0.489 px

xc = 6.853 px
yc = 7.247 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34961.0379
Standard deviation: 10.67144
R^2: 0.98875
Parameters:
a = 112.63671
b = 807.01095
c = 52.87411
d = 0.82675

Bead 2767 (Rejected)

Date : Mon Oct 17 13:53:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

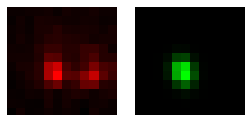Coordinates : -147 um (x), -35.0 um (y), 53.1 um (z)
Corresponding bead : Not found
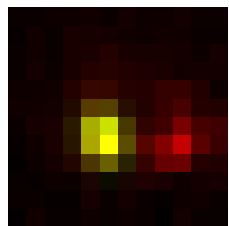Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	502 nm	523 nm	270 nm
z	3.45 um	3.46 um	1.3 um
Asymmetry	0.792		
Theta	-74.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.595$

Parameters:
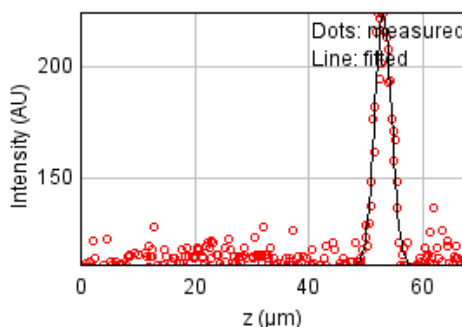 A = 441.366   (brightness)
 B = 143.039   (background)
 a = 0.823 px
 b = -0.083 px
 c = 0.555 px

xc = 4.717 px
yc = 6.574 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14228.2416
Standard deviation: 6.80779
R^2: 0.90733
Parameters:
 a = 110.83452
 b = 223.95434
 c = 53.08049
 d = 1.46328

Bead 2768

Date : Mon Oct 17 13:53:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
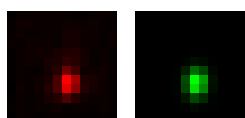Frame size : 12 pixels

Coordinates : 10.2 um (x), -43.5 um (y), 53.2 um (z)
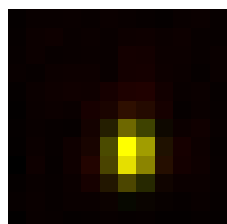Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	510 nm	531 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.775		
Theta	87.2°		

XY profile & fitting parameters :

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

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

Parameters:
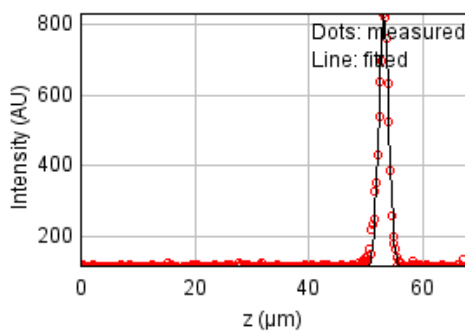 A = 805.892   (brightness)
 B = 128.315   (background)
 a = 0.858 px
 b = 0.017 px
 c = 0.517 px

xc = 6.208 px
yc = 7.362 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43370.9389
Standard deviation: 11.88585
R^2: 0.98737
Parameters:
 a = 115.15199
 b = 831.17340
 c = 53.18902
 d = 0.85916

Bead 2769

Date : Mon Oct 17 13:53:42 PDT 2022
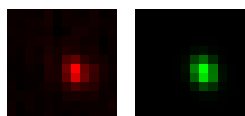Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -145 um (x), -53.4 um (y), 52.5 um (z)
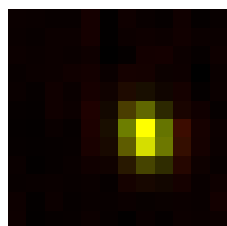Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	521 nm	543 nm	270 nm
z	1.39 um	1.4 um	1.3 um
Asymmetry	0.797		
Theta	-71.2°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.950$

Parameters:
 A = 379.258   (brightness)
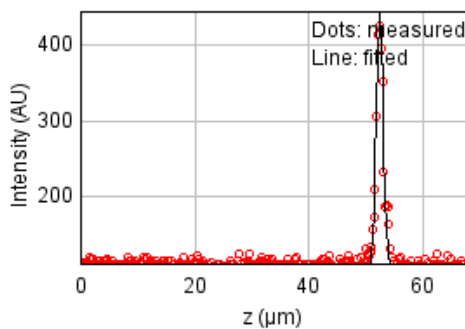 B = 116.305   (background)
 a = 0.748 px
 b = -0.086 px
 c = 0.524 px

xc = 7.014 px
yc = 6.370 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22978.3656
Standard deviation: 8.65148
R^2: 0.95764
Parameters:
 a = 111.16908
 b = 446.45077
 c = 52.50599
 d = 0.59185

Bead 2770

Date : Mon Oct 17 13:53:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
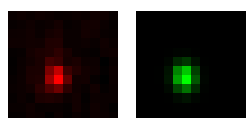Frame size : 12 pixels

Coordinates : -124 um (x), -62.5 um (y), 49.1 um (z)
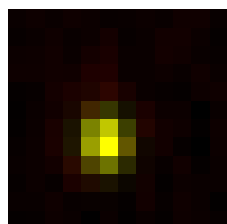Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	508 nm	529 nm	270 nm
z	1.9 um	1.91 um	1.3 um
Asymmetry	0.814		
Theta	-84.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.952$

Parameters:
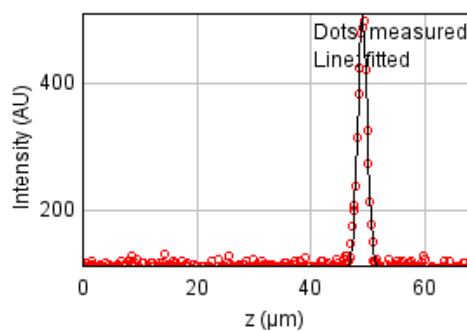 A = 382.002   (brightness)
 B = 116.928   (background)
 a = 0.783 px
 b = -0.027 px
 c = 0.523 px

xc = 4.794 px
yc = 6.727 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18257.7389
Standard deviation: 7.71177
R^2: 0.98186
Parameters:
 a = 112.40643
 b = 510.59126
 c = 49.11018
 d = 0.80757

Bead 2771

Date : Mon Oct 17 13:53:42 PDT 2022
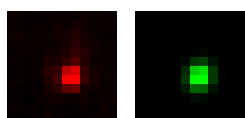Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 81.1 um (x), -89.8 um (y), 52.8 um (z)
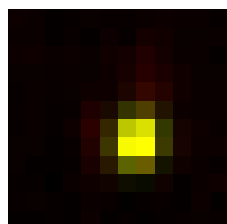Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	490 nm	511 nm	270 nm
z	2.27 um	2.27 um	1.3 um
Asymmetry	0.852		
Theta	75.8°		

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 = 0.962

Parameters:
 A = 671.441   (brightness)
 B = 122.030   (background)
 a = 0.756 px
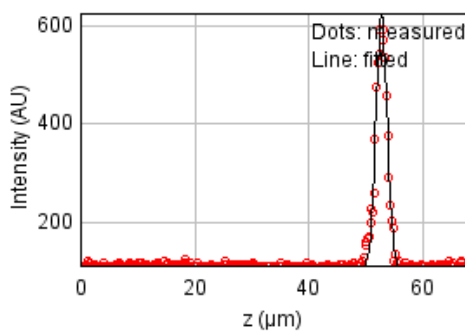 b = 0.050 px
 c = 0.571 px

xc = 6.537 px
yc = 6.652 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27855.9377
Standard deviation: 9.52554
R^2: 0.98576
Parameters:
 a = 112.14841
 b = 623.92339
 c = 52.80593
 d = 0.96197

Bead 2772

Date : Mon Oct 17 13:53:42 PDT 2022
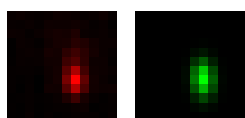Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 104 um (x), 75.4 um (y), 53.2 um (z)
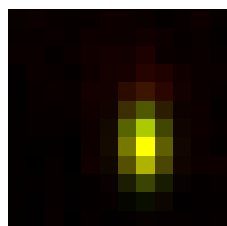Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	408 nm	270 nm
max	671 nm	699 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.583		
Theta	-87.5°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.948$

Parameters:
 A = 575.460   (brightness)
 B = 123.728   (background)
 a = 0.875 px
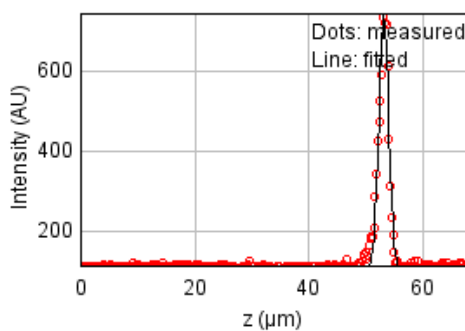 b = -0.025 px
 c = 0.299 px

xc = 6.928 px
yc = 6.888 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57280.1171
Standard deviation: 13.65944
R^2: 0.97816
Parameters:
 a = 111.80722
 b = 741.96501
 c = 53.19688
 d = 0.83865

Bead 2773

Date : Mon Oct 17 13:53:42 PDT 2022
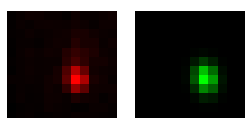Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -158 um (x), 57.3 um (y), 53.1 um (z)
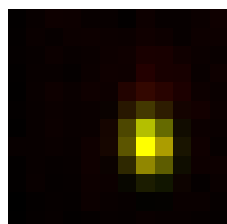Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	541 nm	564 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.757		
Theta	-81.0°		

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 = 606.248   (brightness)
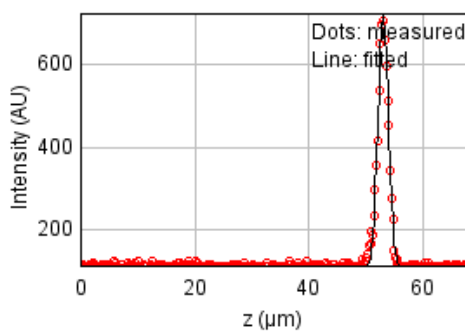B = 122.785   (background)
a = 0.790 px
b = -0.052 px
c = 0.466 px

xc = 7.182 px
yc = 6.832 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23037.7807
Standard deviation: 8.66266
R^2: 0.99126
Parameters:
a = 111.25646
b = 727.17479
c = 53.09987
d = 0.89731

Bead 2774

Date : Mon Oct 17 13:53:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
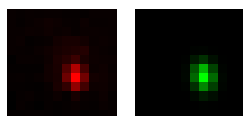Frame size : 12 pixels

Coordinates : -31.7 um (x), 53.6 um (y), 53.0 um (z)
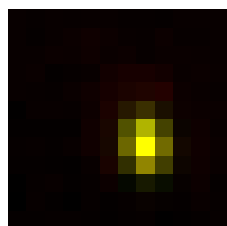Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	522 nm	544 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.737		
Theta	-81.4°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.967$

  Parameters:
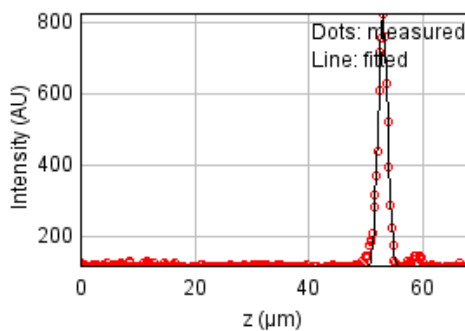 A = 703.925   (brightness)
  B = 123.857   (background)
  a = 0.897 px
  b = -0.061 px
  c = 0.501 px

  xc = 6.997 px
  yc = 6.849 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41760.2592
Standard deviation: 11.66306
R^2: 0.98690
Parameters:
 a = 115.55329
 b = 824.11168
 c = 53.04238
 d = 0.81240

Bead 2775

Date : Mon Oct 17 13:53:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -80.0 um (x), 43.2 um (y), 52.7 um (z)
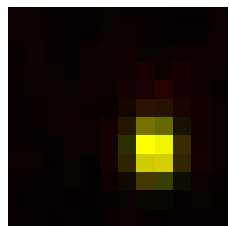Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	410 nm	270 nm
max	510 nm	531 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.771		
Theta	-85.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.980$

Parameters:
A = 830.082   (brightness)
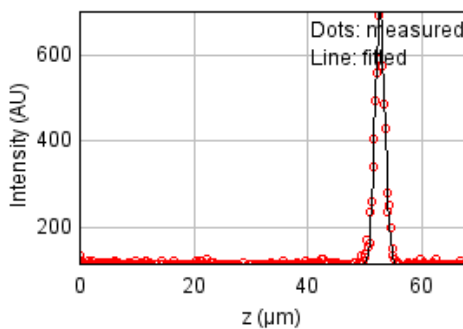B = 122.160   (background)
a = 0.866 px
b = -0.025 px
c = 0.517 px

xc = 7.484 px
yc = 7.302 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36529.2422
Standard deviation: 10.90815
R^2: 0.98435
Parameters:
a = 114.28851
b = 704.43014
c = 52.70664
d = 0.85741

Bead 2776

Date : Mon Oct 17 13:53:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
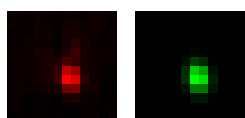Frame size : 12 pixels

Coordinates : 43.6 um (x), 19.7 um (y), 53.0 um (z)
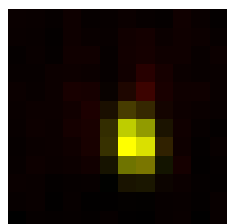Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	523 nm	544 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.736		
Theta	-79.6°		

XY profile & fitting parameters :

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

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

Parameters:
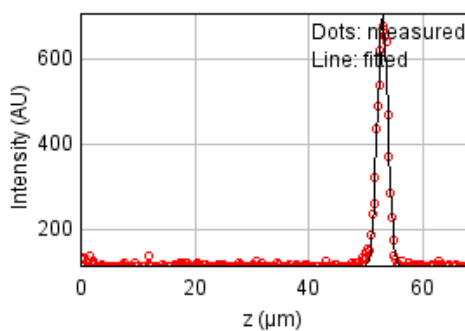 A = 634.770   (brightness)
 B = 127.647   (background)
 a = 0.894 px
 b = -0.074 px
 c = 0.505 px

xc = 6.407 px
yc = 6.777 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34276.0996
Standard deviation: 10.56639
R^2: 0.98618
Parameters:
 a = 113.60734
 b = 704.75405
 c = 52.99391
 d = 0.91219

Bead 2777

Date : Mon Oct 17 13:53:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
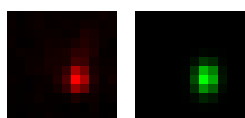Frame size : 12 pixels

Coordinates : 64.1 um (x), 5.2 um (y), 53.1 um (z)
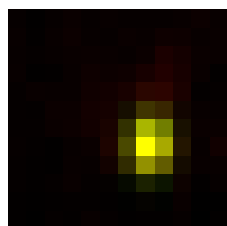Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	544 nm	567 nm	270 nm
z	1.9 um	1.91 um	1.3 um
Asymmetry	0.736		
Theta	86.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.952$

Parameters:
A = 733.170   (brightness)
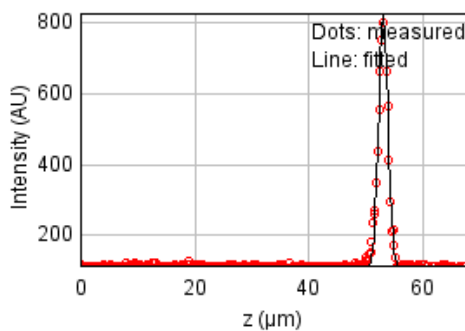B = 129.005   (background)
a = 0.836 px
b = 0.022 px
c = 0.455 px

xc = 7.257 px
yc = 6.861 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 37721.3828
Standard deviation: 11.08472
R^2: 0.98836
Parameters:
 a = 113.89892
 b = 831.39351
 c = 53.11098
 d = 0.80601

Bead 2778

Date : Mon Oct 17 13:53:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
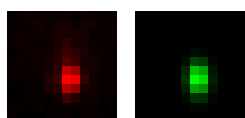Frame size : 12 pixels

Coordinates : -32.5 um (x), -12.6 um (y), 52.9 um (z)
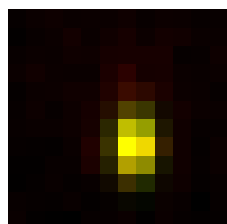Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	595 nm	620 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.654		
Theta	-88.9°		

XY profile & fitting parameters :

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

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

R^2 = 0.956

Parameters:
A = 631.675   (brightness)
B = 123.761   (background)
a = 0.887 px
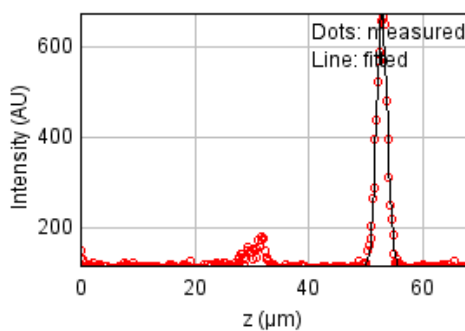b = -0.010 px
c = 0.379 px

xc = 6.406 px
yc = 6.899 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 67445.0799
Standard deviation: 14.82197
R^2: 0.97054
Parameters:
 a = 117.10668
 b = 674.86997
 c = 52.87714
 d = 0.93188

Bead 2779

Date : Mon Oct 17 13:53:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

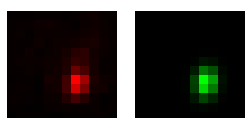Coordinates : 52.0 um (x), -21.7 um (y), 53.1 um (z)
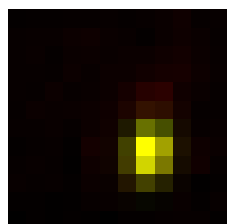Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	396 nm	270 nm
max	521 nm	543 nm	270 nm
z	1.87 um	1.88 um	1.3 um
Asymmetry	0.73		
Theta	82.5°		

XY profile & fitting parameters :

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

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

Parameters:
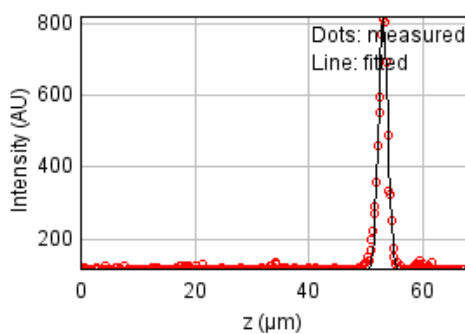 A = 742.297   (brightness)
 B = 128.057   (background)
 a = 0.921 px
 b = 0.056 px
 c = 0.501 px

xc = 7.230 px
yc = 7.292 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 56556.6351
Standard deviation: 13.57290
R^2: 0.98195
Parameters:
 a = 115.25792
 b = 823.15488
 c = 53.09078
 d = 0.79517

Bead 2780 (Rejected)

Date : Mon Oct 17 13:53:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

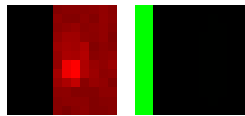Coordinates : -164 um (x), -57.2 um (y), 51.2 um (z)
Corresponding bead : Not found
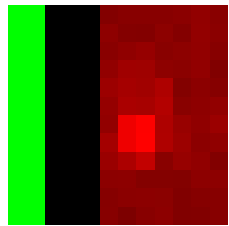Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.62 um	1.68 um	270 nm
max	4.35 um	4.53 um	270 nm
z	1.82 um	1.83 um	1.3 um
Asymmetry	0.372		
Theta	89.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.815$

Parameters:
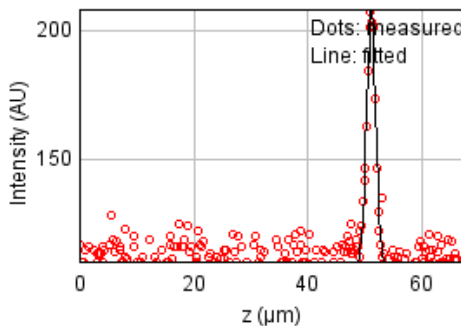 A = 170.032   (brightness)
 B = -17.410   (background)
 a = 0.051 px
 b = 0.001 px
 c = 0.007 px

xc = 8.193 px
yc = 5.582 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 11937.9154
Standard deviation: 6.23584
R^2: 0.83307
Parameters:
 a = 109.57942
 b = 209.30622
 c = 51.16132
 d = 0.77494

Bead 2781

Date : Mon Oct 17 13:53:43 PDT 2022
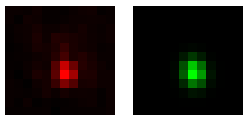Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -111 um (x), -68.7 um (y), 52.8 um (z)
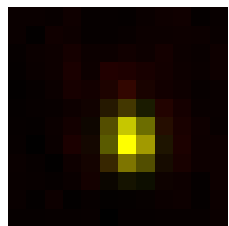Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	432 nm	270 nm
max	515 nm	536 nm	270 nm
z	2.21 um	2.21 um	1.3 um
Asymmetry	0.805		
Theta	-79.8°		

XY profile & fitting parameters :

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

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

Parameters:
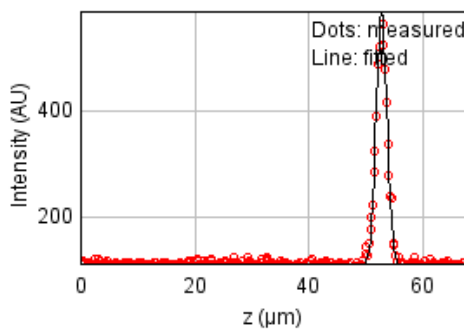 A = 521.158   (brightness)
 B = 119.937   (background)
 a = 0.773 px
 b = -0.048 px
 c = 0.515 px

  xc = 6.157 px
  yc = 6.756 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16169.7928
Standard deviation: 7.25743
R^2: 0.99014
Parameters:
 a = 112.65159
 b = 588.25668
 c = 52.80941
 d = 0.93677

Bead 2782

Date : Mon Oct 17 13:53:43 PDT 2022
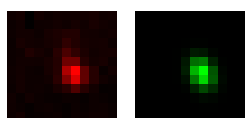Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 63.1 um (x), 82.6 um (y), 53.2 um (z)
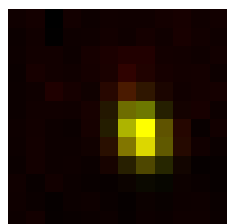Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	567 nm	591 nm	270 nm
z	1.96 um	1.96 um	1.3 um
Asymmetry	0.73		
Theta	-68.9°		

XY profile & fitting parameters :

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

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

Parameters:
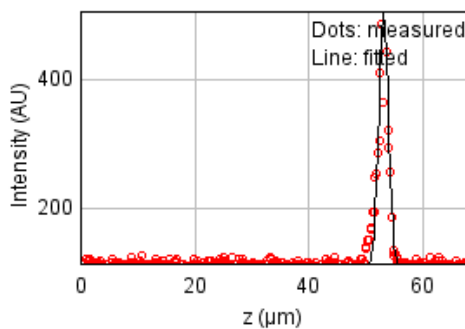 A = 476.693   (brightness)
 B = 121.952   (background)
 a = 0.736 px
 b = -0.123 px
 c = 0.465 px

xc = 6.780 px
yc = 6.253 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 81649.5929
Standard deviation: 16.30827
R^2: 0.92392
Parameters:
 a = 113.63740
 b = 507.13513
 c = 53.16117
 d = 0.83099

Bead 2783

Date : Mon Oct 17 13:53:44 PDT 2022
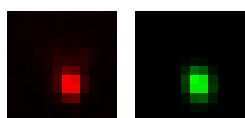Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 44.3 um (x), 81.4 um (y), 53.3 um (z)
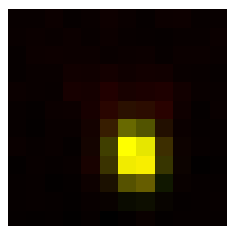Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	532 nm	554 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.787		
Theta	-78.3°		

XY profile & fitting parameters :

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

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

Parameters:
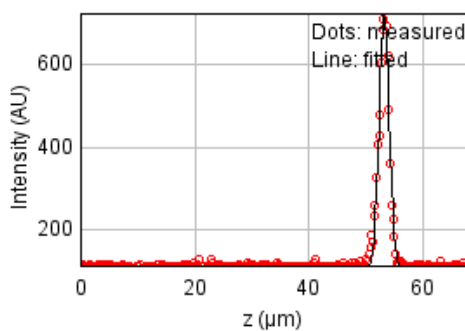 A = 840.625   (brightness)
 B = 128.862   (background)
 a = 0.754 px
 b = -0.058 px
 c = 0.487 px

xc = 6.466 px
yc = 7.469 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 42565.9706
Standard deviation: 11.77503
R^2: 0.98319
Parameters:
 a = 113.00027
 b = 724.24297
 c = 53.27059
 d = 0.86626

Bead 2784

Date : Mon Oct 17 13:53:44 PDT 2022
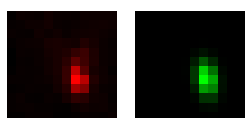Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 90.9 um (x), 75.2 um (y), 53.1 um (z)
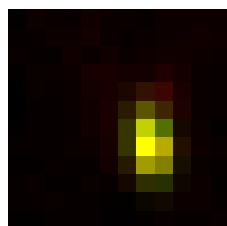Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	365 nm	380 nm	270 nm
max	635 nm	662 nm	270 nm
z	1.85 um	1.86 um	1.3 um
Asymmetry	0.574		
Theta	-81.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.949$

Parameters:
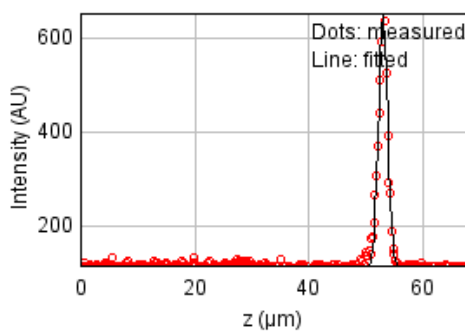 A = 568.878   (brightness)
 B = 123.829   (background)
 a = 0.993 px
 b = -0.102 px
 c = 0.348 px

xc = 7.283 px
yc = 6.877 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31374.7702
Standard deviation: 10.10930
R^2: 0.98257
Parameters:
 a = 112.99387
 b = 653.00030
 c = 53.07637
 d = 0.78516

Bead 2785 (Rejected)

Date : Mon Oct 17 13:53:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

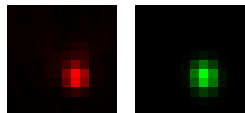Coordinates : 19.6 um (x), 58.3 um (y), 53.3 um (z)
Corresponding bead : Not found
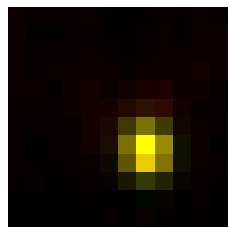Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	432 nm	450 nm	270 nm
max	511 nm	533 nm	270 nm
z	4.11 um	4.12 um	1.3 um
Asymmetry	0.845		
Theta	-82.4°		

XY profile & fitting parameters :

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

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

Parameters:
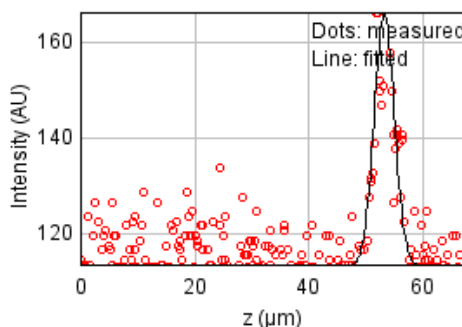 A = 737.830   (brightness)
 B = 126.794   (background)
 a = 0.716 px
 b = -0.027 px
 c = 0.517 px

xc = 7.074 px
yc = 7.281 px

Z profile & fitting parameters:

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

Bead 2786

Date : Mon Oct 17 13:53:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
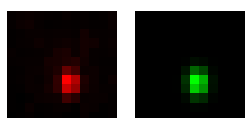Frame size : 12 pixels

Coordinates : -26.3 um (x), 50.4 um (y), 53.3 um (z)
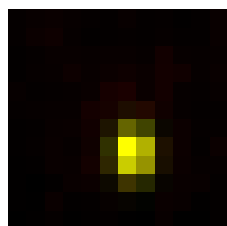Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	365 nm	380 nm	270 nm
max	484 nm	504 nm	270 nm
z	1.98 um	1.98 um	1.3 um
Asymmetry	0.754		
Theta	-87.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.978$

Parameters:
A = 866.943   (brightness)
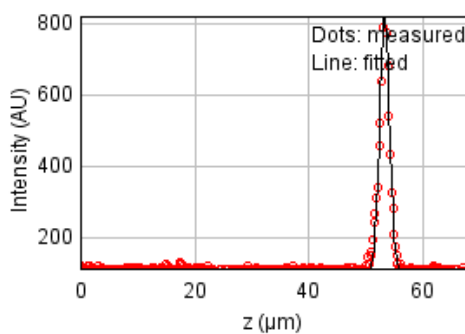B = 128.544   (background)
a = 1.005 px
b = -0.018 px
c = 0.573 px

xc = 6.323 px
yc = 7.316 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42695.8817
Standard deviation: 11.79299
R^2: 0.98704
Parameters:
 a = 114.74005
 b = 823.99944
 c = 53.33411
 d = 0.83888

Bead 2787

Date : Mon Oct 17 13:53:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
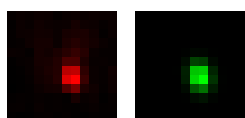Frame size : 12 pixels

Coordinates : 57.3 um (x), 44.6 um (y), 53.2 um (z)
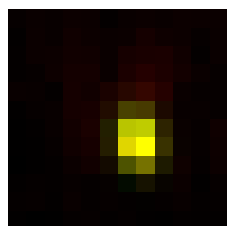Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	516 nm	538 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.742		
Theta	-80.0°		

XY profile & fitting parameters :

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

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

Parameters:
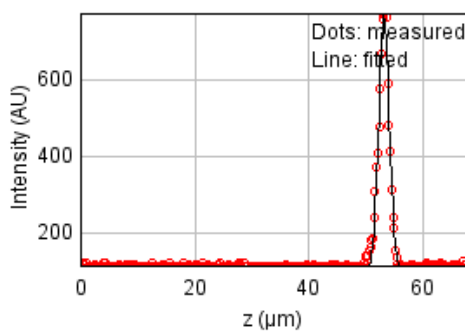 A = 772.263   (brightness)
 B = 130.644   (background)
 a = 0.901 px
 b = -0.070 px
 c = 0.516 px

xc = 6.572 px
yc = 6.659 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33517.0543
Standard deviation: 10.44874
R^2: 0.98894
Parameters:
 a = 112.74657
 b = 772.40496
 c = 53.23169
 d = 0.89690

Bead 2788 (Rejected)

Date : Mon Oct 17 13:53:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

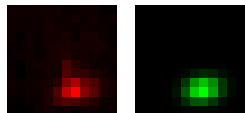Coordinates : -142 um (x), -24.0 um (y), 49.8 um (z)
Corresponding bead : Not found
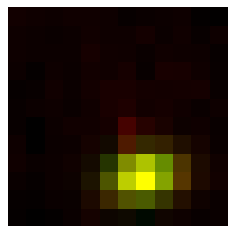Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	469 nm	270 nm
max	647 nm	674 nm	270 nm
z	3.26 um	3.28 um	1.3 um
Asymmetry	0.697		
Theta	10.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.926$

Parameters:
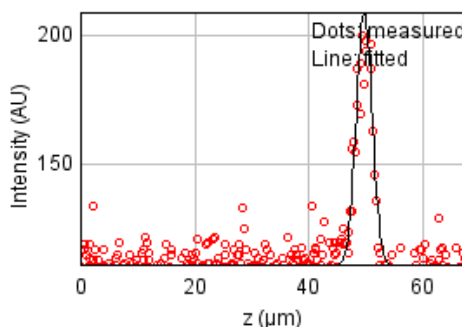 A = 350.905   (brightness)
 B = 121.924   (background)
 a = 0.331 px
 b = 0.058 px
 c = 0.650 px

xc = 6.876 px
yc = 8.718 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17068.5804
Standard deviation: 7.45641
R^2: 0.85316
Parameters:
 a = 110.71423
 b = 208.58433
 c = 49.76424
 d = 1.38553

Bead 2789 (Rejected)

Date : Mon Oct 17 13:53:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

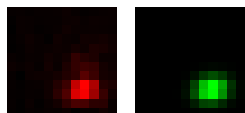Coordinates : 39.8 um (x), -73.7 um (y), 49.2 um (z)
Corresponding bead : Not found
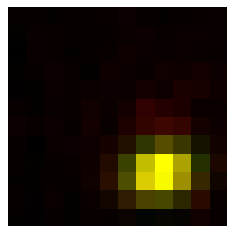Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	466 nm	486 nm	270 nm
max	603 nm	628 nm	270 nm
z	2.8 um	2.82 um	1.3 um
Asymmetry	0.773		
Theta	11.6°		

XY profile & fitting parameters :

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

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

Parameters:
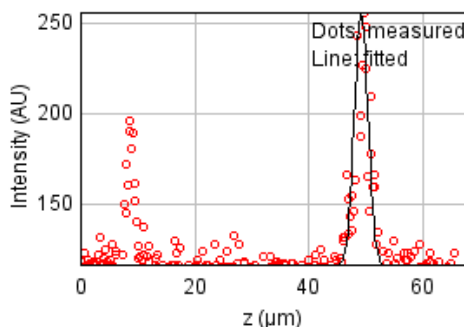 A = 607.306   (brightness)
 B = 123.598   (background)
 a = 0.379 px
 b = 0.049 px
 c = 0.607 px
xc = 7.834 px
yc = 8.495 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 98542.1409
Standard deviation: 17.91603
R^2: 0.64037
Parameters:
 a = 116.58726
 b = 256.22912
 c = 49.22556
 d = 1.19112

Bead 2790

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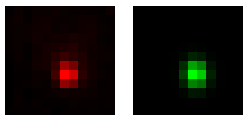Frame size : 12 pixels

Coordinates : -30.3 um (x), 94.5 um (y), 53.5 um (z)
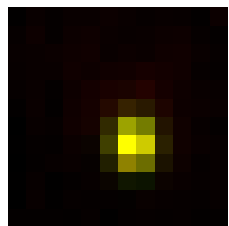Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	490 nm	510 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.83		
Theta	-84.9°		

XY profile & fitting parameters :

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

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

Parameters:
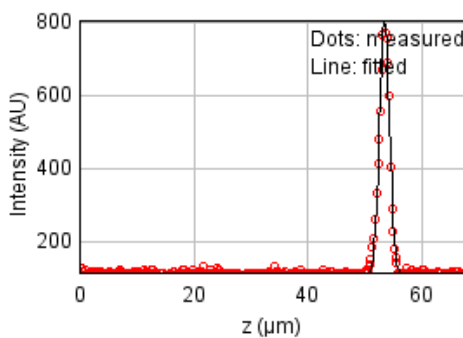A = 759.373   (brightness)
B = 127.453   (background)
a = 0.811 px
b = -0.022 px
c = 0.562 px

xc = 6.356 px
yc = 6.916 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36544.3947
Standard deviation: 10.91041
R^2: 0.98861
Parameters:
a = 114.29930
b = 807.00921
c = 53.50519
d = 0.85876

Bead 2791

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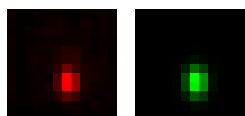Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -92.8 um (x), 28.6 um (y), 53.5 um (z)
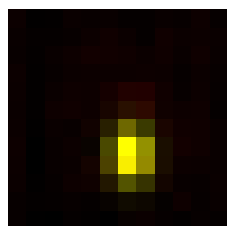Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	527 nm	549 nm	270 nm
z	1.81 um	1.82 um	1.3 um
Asymmetry	0.728		
Theta	-88.5°		

XY profile & fitting parameters :

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

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

Parameters:
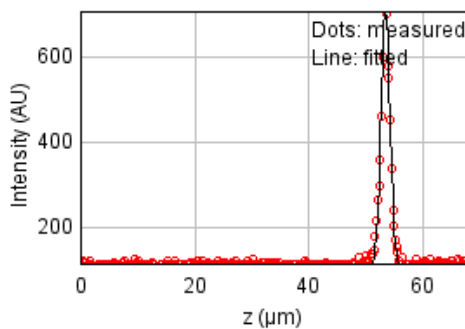 A = 680.679 (brightness)
 B = 123.197 (background)
 a = 0.911 px
 b = -0.011 px
 c = 0.483 px

xc = 6.195 px
yc = 7.432 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27277.8829
Standard deviation: 9.42619
R^2: 0.98707
Parameters:
 a = 113.01859
 b = 705.07180
 c = 53.50299
 d = 0.76853

Bead 2792

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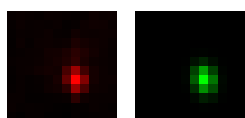Frame size : 12 pixels

Coordinates : 44.2 um (x), 26.3 um (y), 53.8 um (z)
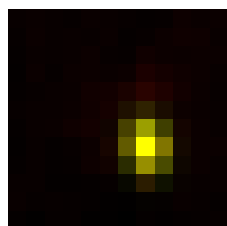Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	511 nm	532 nm	270 nm
z	1.85 um	1.85 um	1.3 um
Asymmetry	0.747		
Theta	-79.9°		

XY profile & fitting parameters :

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

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

Parameters:
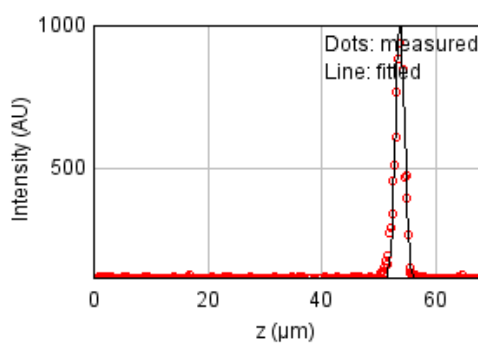 A = 817.339   (brightness)
 B = 128.047   (background)
 a = 0.910 px
 b = -0.071 px
 c = 0.527 px

xc = 7.066 px
yc = 6.960 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 130074.599
Standard deviation: 20.58387
R^2: 0.97379
Parameters:
 a = 113.78907
 b = 1006.80981
 c = 53.76581
 d = 0.78438

Bead 2793 (Rejected)

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

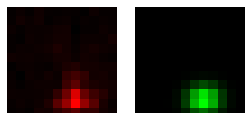Coordinates : -144 um (x), 12.3 um (y), 50.5 um (z)
Corresponding bead : Not found
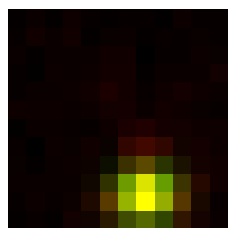Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	514 nm	535 nm	270 nm
max	601 nm	626 nm	270 nm
z	3.21 um	3.23 um	1.3 um
Asymmetry	0.856		
Theta	4.1°		

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
$R^2 = 0.917$

Parameters:
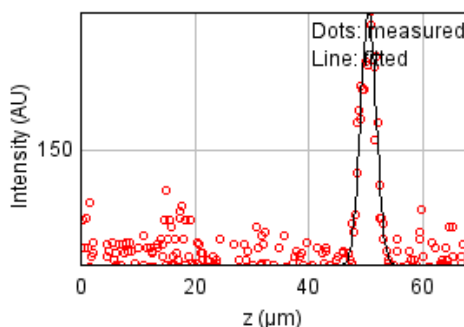 A = 358.268   (brightness)
 B = 119.639   (background)
 a = 0.373 px
 b = 0.010 px
 c = 0.507 px

xc = 6.988 px
yc = 9.617 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 15742.2654
Standard deviation: 7.16085
R^2: 0.82159
Parameters:
 a = 111.90542
 b = 196.17522
 c = 50.50010
 d = 1.36451

Bead 2794

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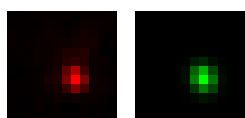Frame size : 12 pixels

Coordinates : 6.59 um (x), 12.0 um (y), 53.6 um (z)
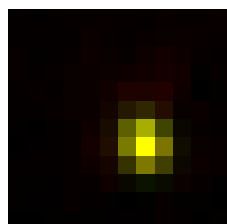Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	496 nm	517 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.832		
Theta	-71.5°		

XY profile & fitting parameters :

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

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

Parameters:
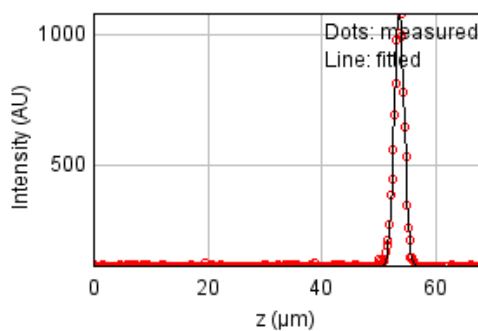A = 875.822   (brightness)
B = 130.232   (background)
a = 0.764 px
b = -0.073 px
c = 0.570 px

xc = 6.969 px
yc = 6.835 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 40168.3290
Standard deviation: 11.43860
R^2: 0.99360
Parameters:
a = 113.70224
b = 1080.82176
c = 53.62954
d = 0.86647

Bead 2795 (Rejected)

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

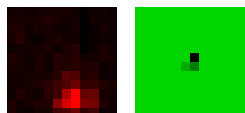Coordinates : -97.5 um (x), 9.22 um (y), 50.5 um (z)
Corresponding bead : Not found
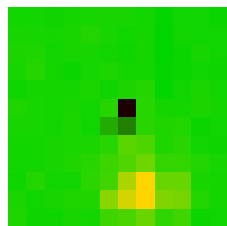Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	99.5 nm	104 nm	270 nm
max	165 nm	172 nm	270 nm
z	3.24 um	3.25 um	1.3 um
Asymmetry	0.601		
Theta	48.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.000$

Parameters:
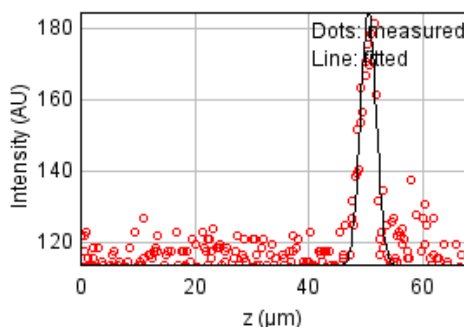 A = -51.476   (brightness)
 B = 130.965   (background)
 a = 9.783 px
 b = 4.295 px
 c = 8.678 px

xc = 5.718 px
yc = 5.586 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14969.8360
Standard deviation: 6.98296
R^2: 0.77650
Parameters:
 a = 113.66263
 b = 184.75497
 c = 50.49943
 d = 1.37642

Bead 2796 (Rejected)

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

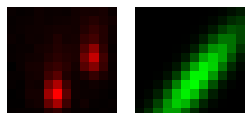Coordinates : 147 um (x), -5.94 um (y), 53.7 um (z)
Corresponding bead : Not found
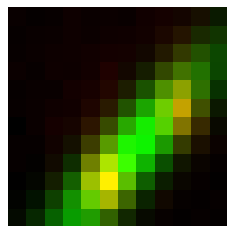Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	598 nm	622 nm	270 nm
max	2.39 um	2.49 um	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.25		
Theta	50.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.446$

Parameters:
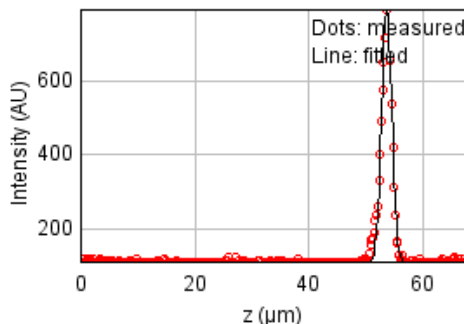 A = 269.098 (brightness)
 B = 131.720 (background)
 a = 0.232 px
 b = 0.173 px
 c = 0.168 px

xc = 6.101 px
yc = 7.518 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 46713.8515
Standard deviation: 12.33541
R^2: 0.98534
Parameters:
 a = 110.98019
 b = 792.05632
 c = 53.72052
 d = 0.88068

Bead 2797

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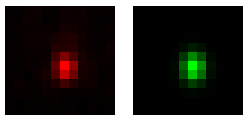Frame size : 12 pixels

Coordinates : -80.1 um (x), -15.3 um (y), 53.7 um (z)
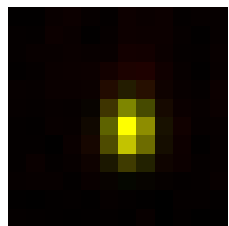Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	541 nm	563 nm	270 nm
z	1.9 um	1.91 um	1.3 um
Asymmetry	0.77		
Theta	-89.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.976$

Parameters:
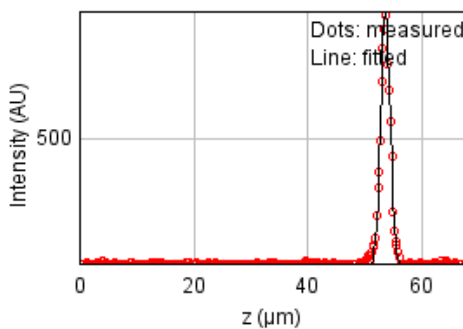A = 770.437   (brightness)
B = 127.304   (background)
a = 0.773 px
b = -0.003 px
c = 0.459 px

xc = 6.115 px
yc = 6.203 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34725.9005
Standard deviation: 10.63549
R^2: 0.99102
Parameters:
a = 113.32471
b = 897.45573
c = 53.68015
d = 0.80779

Bead 2798 (Rejected)

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

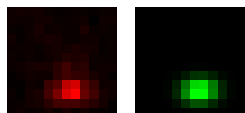Coordinates : -49.4 um (x), -16.5 um (y), 50.0 um (z)
Corresponding bead : Not found
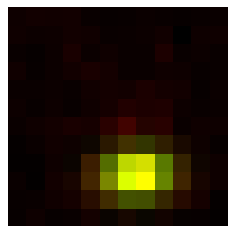Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	452 nm	471 nm	270 nm
max	646 nm	673 nm	270 nm
z	4.5 um	4.51 um	1.3 um
Asymmetry	0.7		
Theta	3.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.937$

Parameters:
A = 411.798   (brightness)
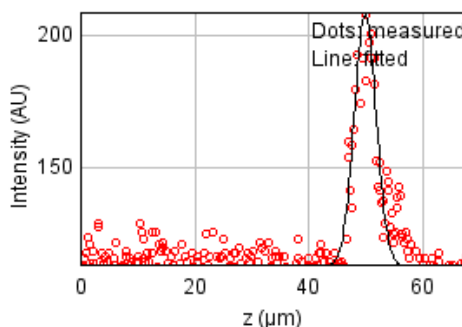B = 124.598   (background)
a = 0.323 px
b = 0.020 px
c = 0.656 px

xc = 6.515 px
yc = 8.614 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21223.3936
Standard deviation: 8.31454
R^2: 0.85618
Parameters:
a = 113.09074
b = 208.61847
c = 49.95560
d = 1.90924

Bead 2799

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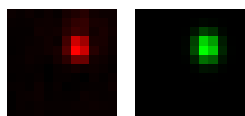Frame size : 12 pixels

Coordinates : -49.4 um (x), -16.5 um (y), 49.1 um (z)
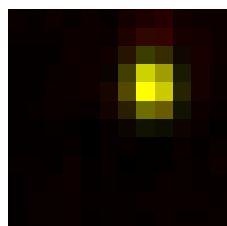Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	513 nm	534 nm	270 nm
z	2.35 um	2.36 um	1.3 um
Asymmetry	0.829		
Theta	-84.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.961$

Parameters:
A = 647.952   (brightness)
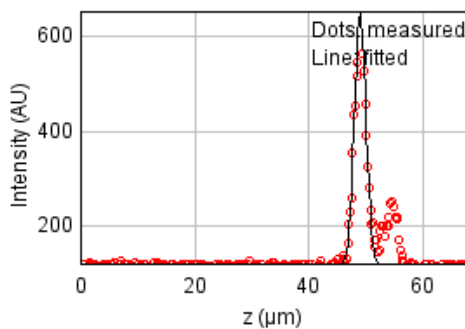B = 122.301   (background)
a = 0.740 px
b = -0.024 px
c = 0.513 px

xc = 7.329 px
yc = 3.704 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 193719.993
Standard deviation: 25.11991
R^2: 0.91740
Parameters:
 a = 119.62264
 b = 651.07795
 c = 49.06012
 d = 0.99751

Bead 2800

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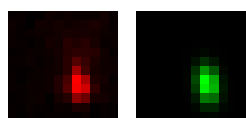Frame size : 12 pixels

Coordinates : 161 um (x), -23.1 um (y), 53.2 um (z)
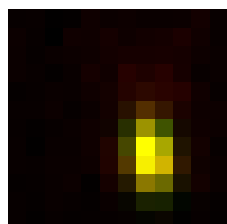Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	668 nm	696 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.588		
Theta	-82.6°		

XY profile & fitting parameters :

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

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

Parameters:
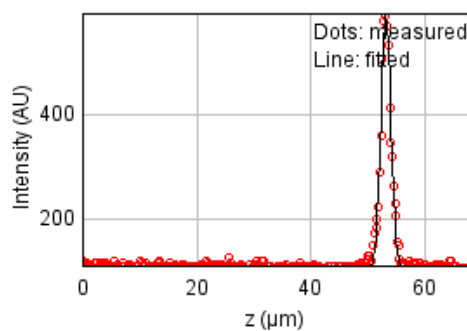 A = 552.581   (brightness)
 B = 119.138   (background)
 a = 0.859 px
 b = -0.073 px
 c = 0.310 px

xc = 7.289 px
yc = 7.459 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29648.6954
Standard deviation: 9.82729
R^2: 0.98087
Parameters:
 a = 110.88620
 b = 592.00490
 c = 53.22018
 d = 0.85302